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POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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NORMAL OPEN, NORMAL CLOSED AND

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.

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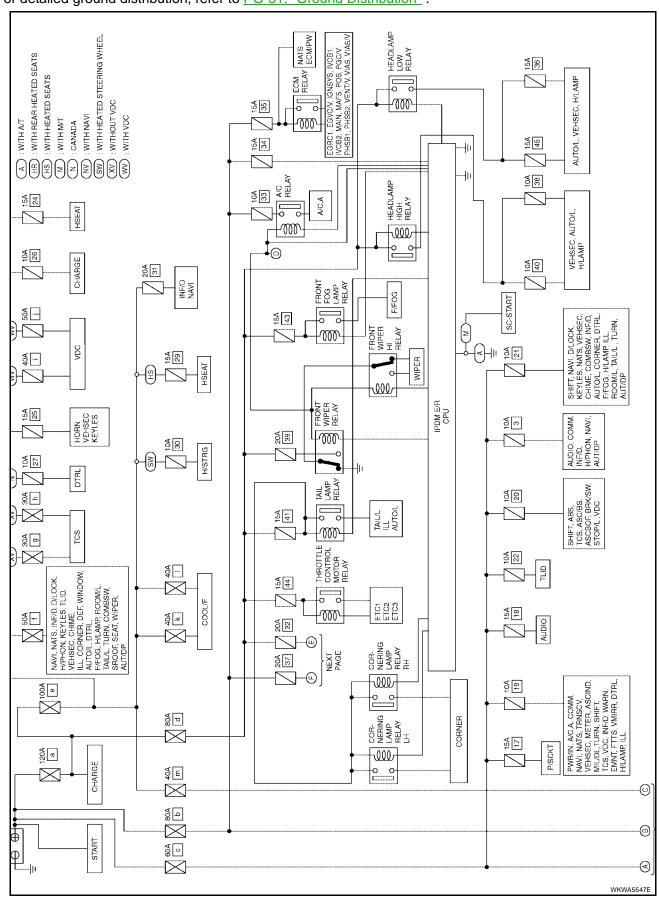
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POWER SUPPLY ROUTING CIRCUIT Schematic

PFP:24110

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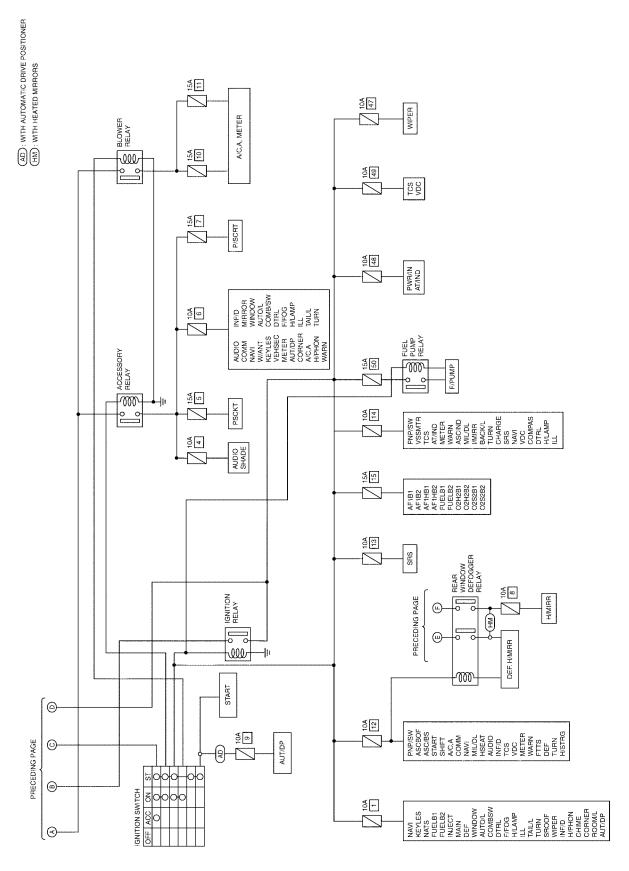
For detailed ground distribution, refer to PG-31, "Ground Distribution".



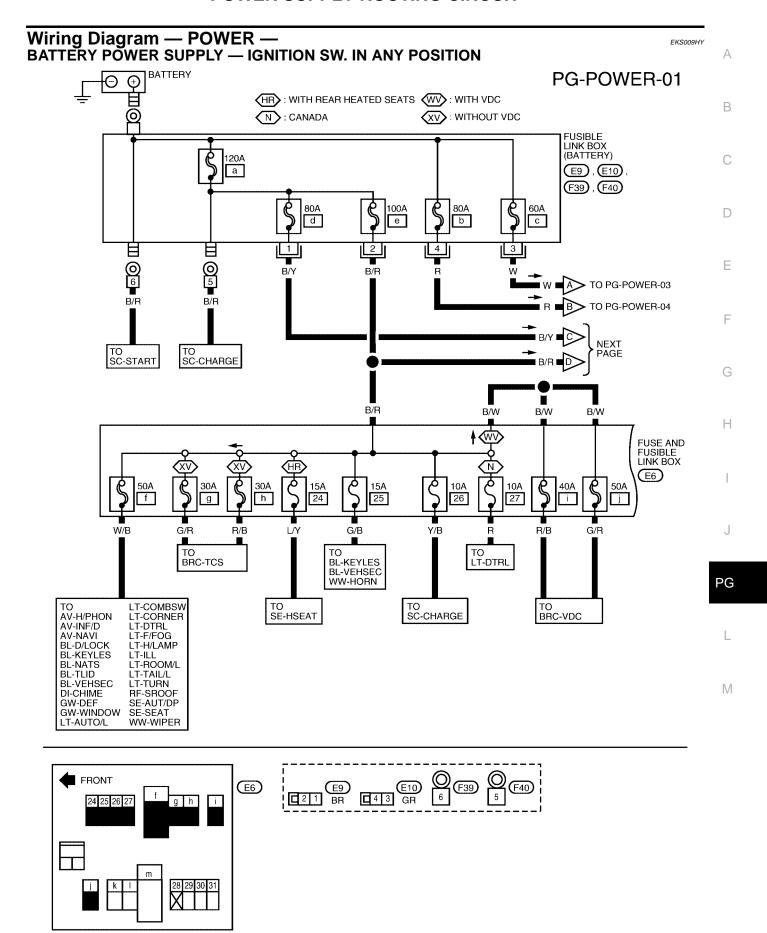
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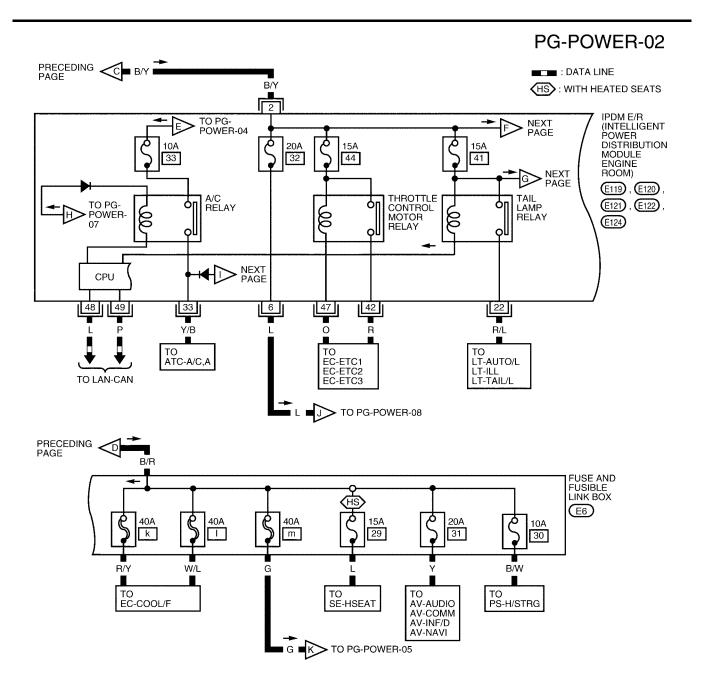
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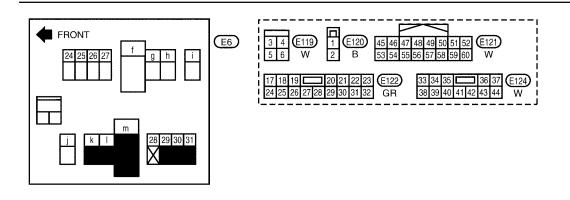


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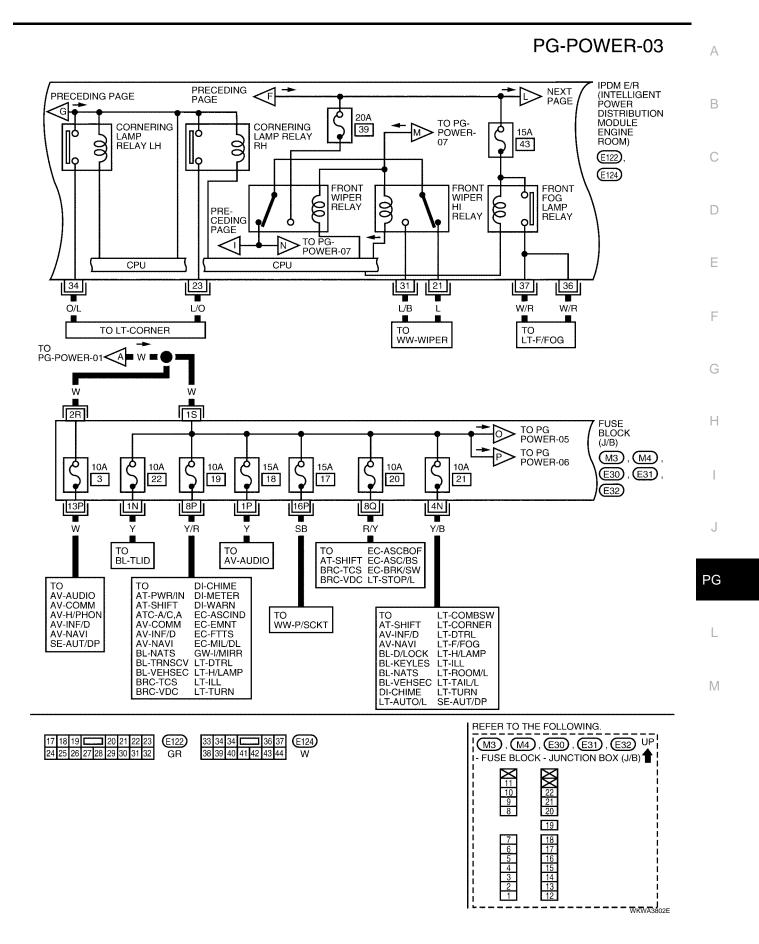


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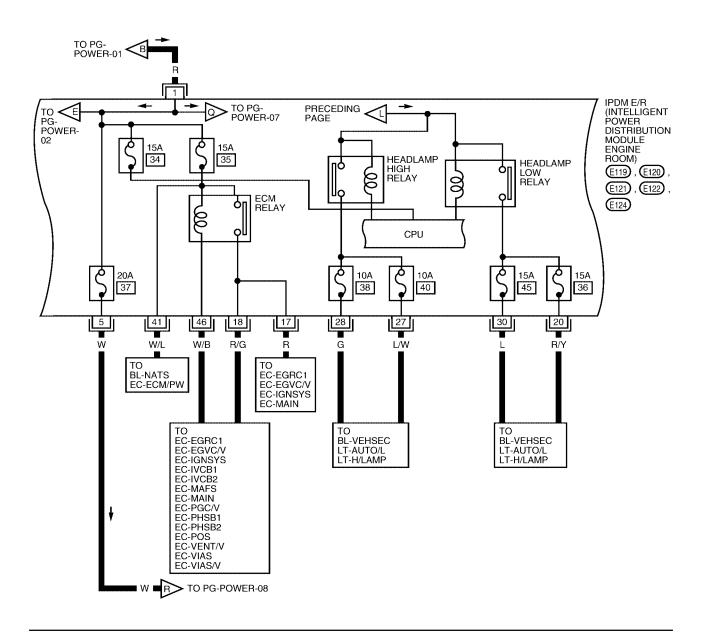


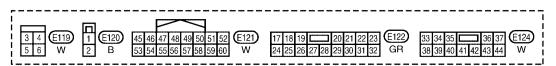


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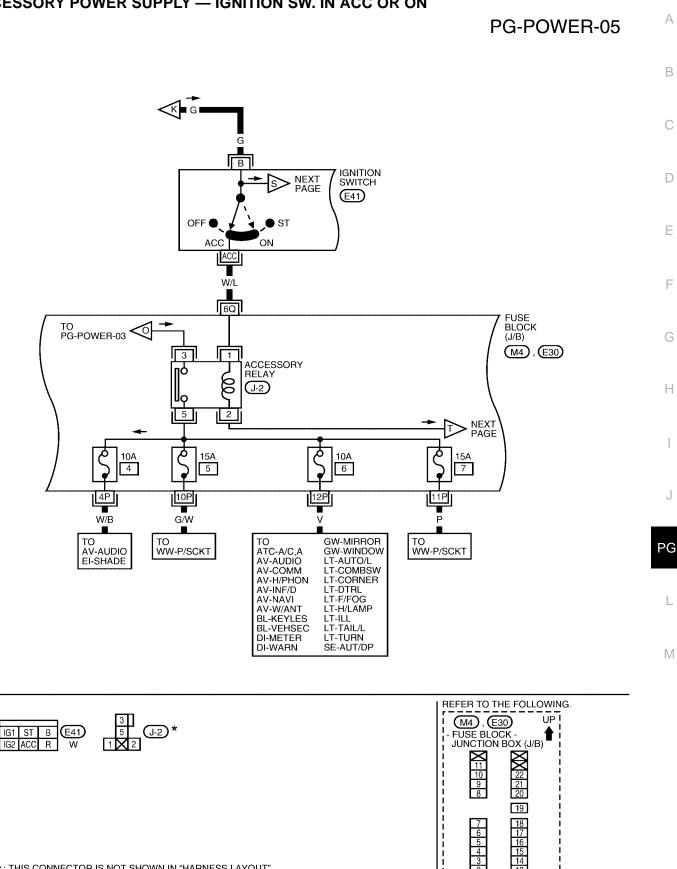
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ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON

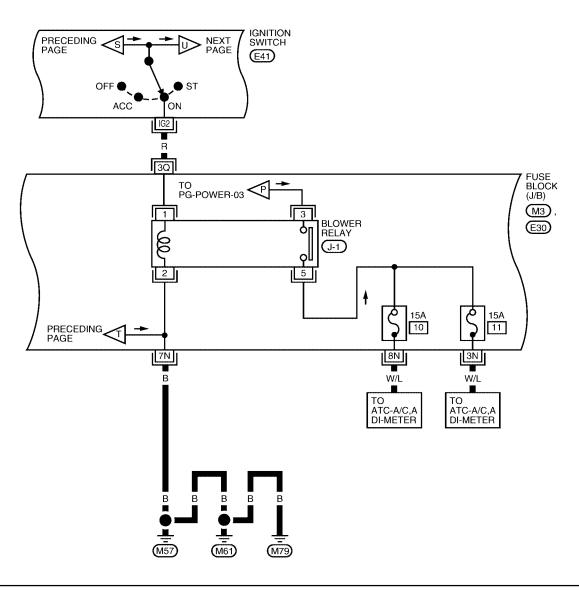


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*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT".

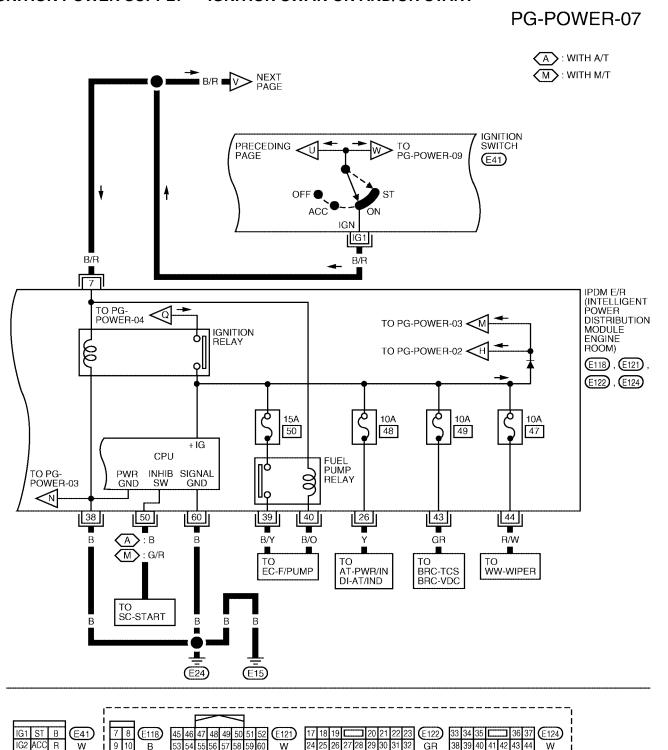
IGNITION POWER SUPPLY — IGNITION SW. IN ON

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



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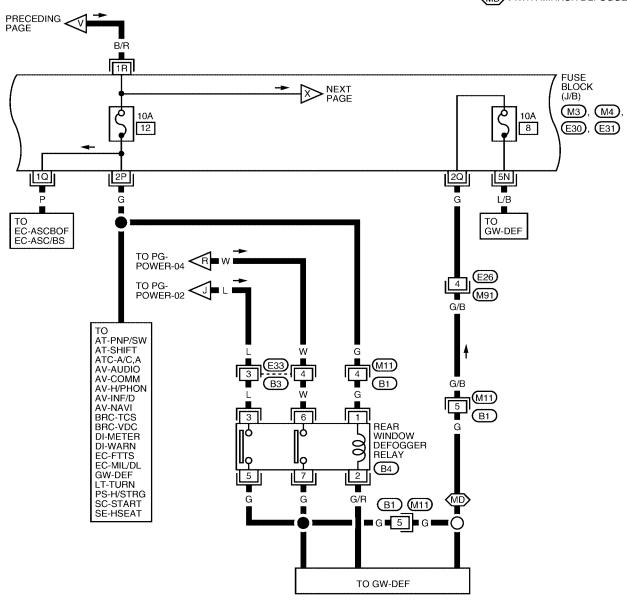
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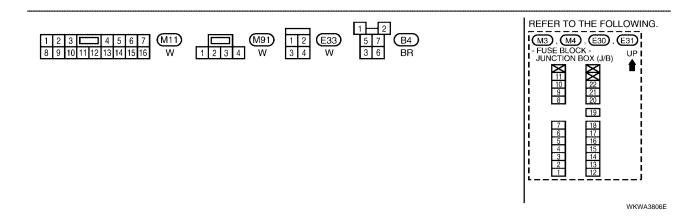
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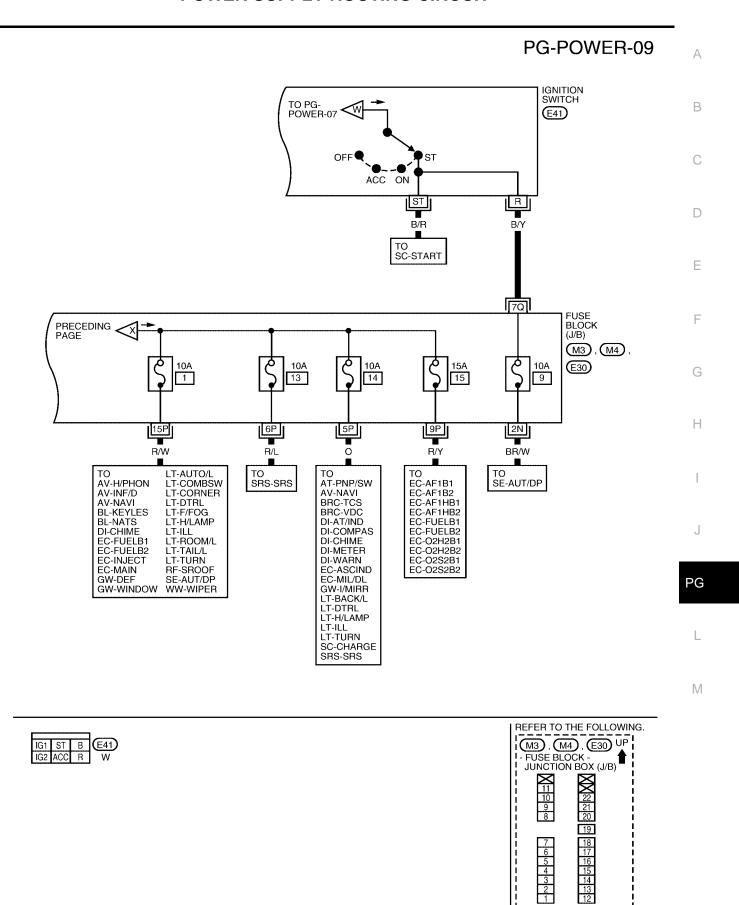
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(MD): WITH MIRROR DEFOGGER





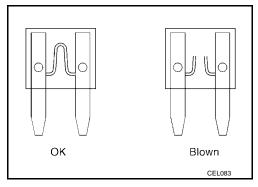


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Fuse

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.

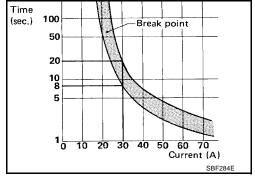
Circuit Breaker (Built Into BCM)

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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



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

PFP:284B7

System Description

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- 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.

CAUTION

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

SYSTEMS CONTROLLED BY IPDM E/R

1. Lamp control

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

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

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

- 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).

5. Cooling fan control

Using CAN communication lines, it receives signals from ECM and controls cooling fan.

6. Horn control

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.

- 1. 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.
пеацапір	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.
rail and parking lamps	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

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Controlled system	Fail-safe mode	
A/C compressor	A/C compressor OFF	
Front fog lamps	Front fog lamp relay OFF	

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.

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CONSULT-II Function (IPDM E/R)

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

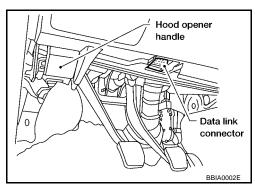
IPDM E/R diagnostic Mode	Description
SELF-DIAG RESULTS	Displays IPDM E/R self-diagnosis results.
DATA MONITOR	Displays IPDM E/R input/output data in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Operation of electrical loads can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

CONSULT-II BASIC OPERATION

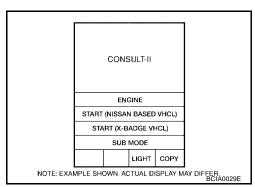
CAUTION:

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.

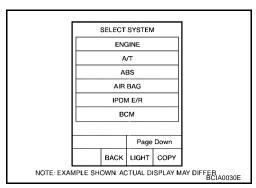
1. With the ignition switch OFF, connect CONSULT-II and CON-SULT-II CONVERTER to the data link connector, then turn ignition switch ON.



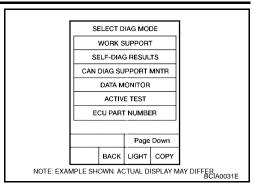
Touch "START (NISSAN BASED VHCL)".



- 3. Touch "IPDM E/R" on "SELECT SYSTEM" screen.
 - If "IPDM E/R" is not displayed, then refer to GI-39, "CON-SULT-II Data Link Connector (DLC) Circuit".



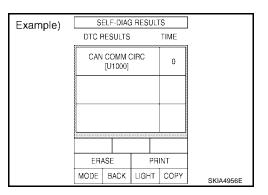
 Select the desired part to be diagnosed on the "SELECT DIAG MODE" screen.



SELF-DIAGNOSTIC RESULTS

Operation Procedure

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



Display Item List

Display items	CONSULT-II	Error return condition		ME	Possible causes
Display Items	display code			PAST	
NO DTC IS DETECTED. FUR- THER 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).

Touch "START".

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- 4. When "SELECTION FROM MENU" is selected, touch items to be monitored. When "ALL SIGNALS" is selected, all the items will be monitored. When "MAIN SIGNALS" is selected, predetermined items are monitored.
- 5. Touch "RECORD" while monitoring to record the status of the item being monitored. To stop recording, touch "STOP".

All Signals, Main Signals, Selection From Menu

	CONSULT-II Monitor item selection		election			
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
Parking, license, and tail lamp request	TAIL & CLR REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Headlamp low request	HL LO REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Headlamp high 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/1LOW/LOW/ 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		Х	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.

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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, license and parking lamps
- Cornering lamps
- Front fog lamps
- Headlamps (Hi, Lo)
- A/C compressor (magnetic clutch)
- Cooling fan

OPERATION PROCEDURE

 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

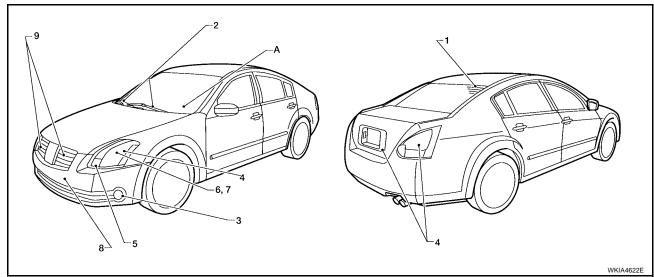
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

Be sure to perform <u>BL-30</u>, "<u>Door Switch Check"</u> 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.



(A): Oil pressure warning lamp is blinking when the auto active test is operating.

Item Number	Test Item	Operation Time/Frequency
1	Rear window defogger	10 seconds
2	Front wipers	LOW 5 seconds then HIGH 5 seconds
3	Cornering lamps	10 seconds
4	Tail, license, and parking lamps	10 seconds
5	Front fog lamps	10 seconds
6	Headlamps (low)	10 seconds
7	Headlamps (high)	ON-OFF 5 times (Turns ON-OFF the solenoid to switch Hi. Lo. In this case, the bulb does not illuminate.)
8	A/C compressor (magnetic clutch)	ON-OFF 5 times
9	Cooling fan	LOW 2 seconds \rightarrow MID 2 seconds \rightarrow HIGH 2 seconds \rightarrow MID 2 seconds \rightarrow LOW 2 seconds

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	Symptom 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?		Lamp/wiper motor malfunction	-
		NO	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 test. Does rear window defogger operate?	YES	BCM signal input circuit	
Rear window defogger			Rear window defogger relay circuit	P
does not operate.		NO	Open circuit of rear window defogger	ľ
			IPDM E/R malfunction	
	Perform auto active test. Does magnetic clutch operate?	YES	BCM signal input circuit	_
			CAN communication signal between BCM and ECM.	
A/C compressor does			CAN communication signal between ECM and IPDM E/R	
A/C compressor does not operate.			Magnetic clutch malfunction	
Tion operator		NO	Harness/connector malfunction between IPDM E/R and magnetic clutch	
			IPDM E/R (integrated relay) malfunction	
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	YES	ECM signal input circuit	-
			CAN communication signal between ECM and IPDM E/R	
			Cooling fan motor malfunction	_
		NO	Harness/connector malfunction between IPDM E/R and cooling fan motor	
			IPDM E/R (integrated relay) malfunction	
Oil pressure warning lamp does not operate.	Perform auto active test. Does oil pressure warning lamp blink?	YES	Harness/connector malfunction between IPDM E/R and oil pressure switch	=
			Oil pressure switch malfunction	
		NO	CAN communication signal between BCM and Unified Meter and A/C Amp	-
			Combination meter	

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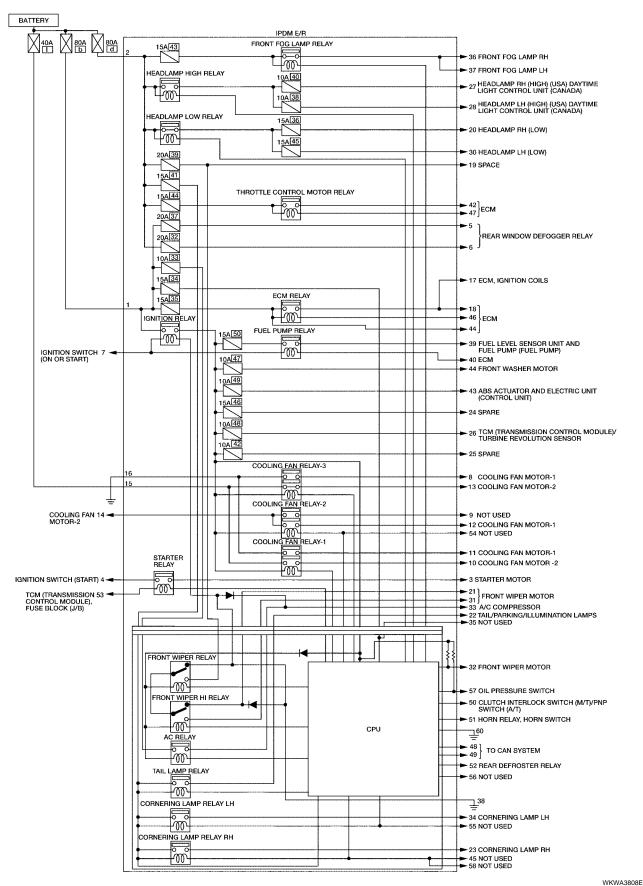
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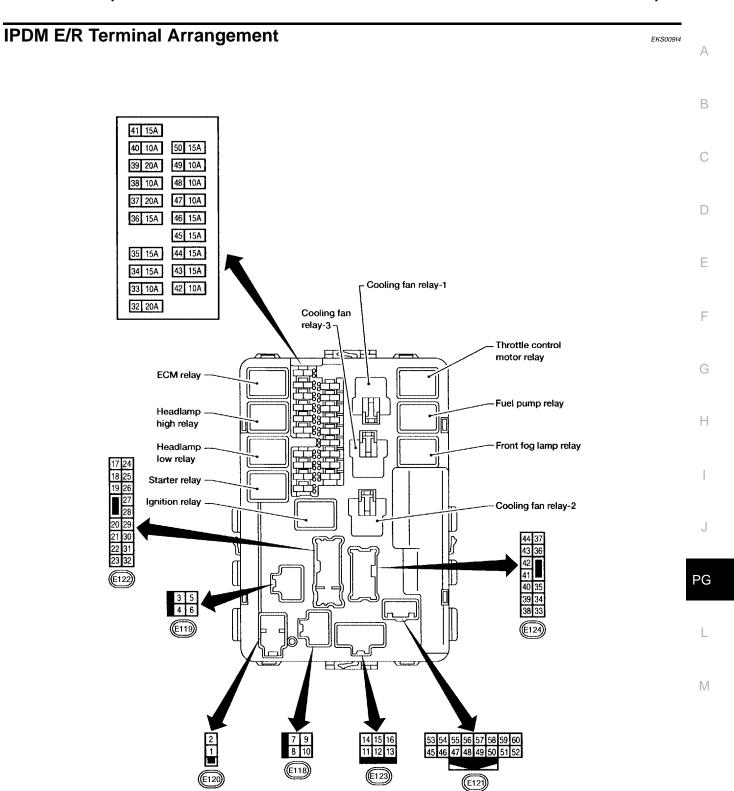
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Schematic EKS00913





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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

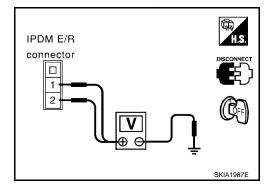
- 1. Disconnect IPDM E/R harness connector E120.
- 2. Check voltage between IPDM E/R harness connector E120 terminals 1 (R), 2 (B/Y) and ground.

Battery voltage should exist

OK or NG

OK >> GO TO 3.

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



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3. GROUND CIRCUIT INSPECTION

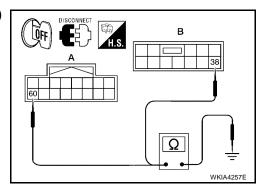
- 1. Disconnect IPDM E/R harness connectors E121 and E124.
- 2. Check continuity between IPDM E/R harness connector (A) E121 terminal 60 (B), (B) E124 terminal 38 (B) and ground.

Continuity should exist

OK or NG

OK >> Inspection End.

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



Inspection with CONSULT-II (Self-Diagnosis)

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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

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

CONSULT-II Display	CONSULT-II	TIME		Details of diagnosis result
CONSULT-II Display	display code	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-25, "CAN COMMUNICATION".

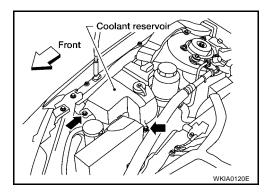
M

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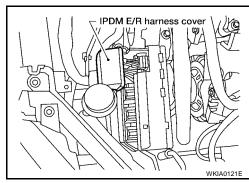
Removal and Installation of IPDM E/R REMOVAL

EKS00917

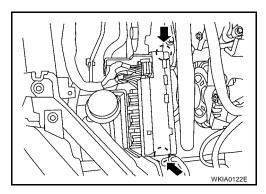
- 1. Disconnect negative battery cable.
- 2. Remove engine side cover RH.
- 3. Remove 2 bolts and position coolant reservoir aside.
- 4. Remove IPDM E/R upper cover.



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.

GROUND CIRCUIT PFP:24080

Ground Distribution MAIN HARNESS

 $\langle \dot{A} \rangle$

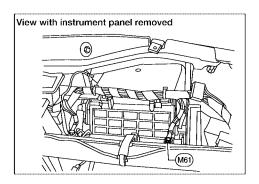
CONNECTOR CONNECT TO NUMBER (M3) Fuse box (J/B) (Terminal No. 7N) (M5) Illumination control switch (M6) VDC OFF switch (M7) Door mirror remote control switch (M57) (M16) ADP steering switch Body (M19) BCM (Body control module) (Terminal No. 52) ground (M21) NATS antenna amp. (M22) Data link connector (Terminal No. 4 and 5) (M24) Combination meter (Terminal No. 10, 11 and 12) (M28) Combination switch (M31) Shift lock control unit (M35) Air bag diagnosis sensor unit (M38) Combination switch (heated steering) (M39) Air mix door motor (driver side) Mode door motor (M40) Automatic drive positioner control unit (Terminal No. 40 and 48) (M42) Steering angle sensor (M47) (M50) Unified meter and A/C amp. (Terminal No. 29 and 30) Hazard switch (M56) (M58) Intake door motor (M59) Glove box lamp (M87) Air mix door motor (passenger side) (M108) Heated steering switch M23 (M171) (M172) Front power socket (front center console) (M173) Front power socket (for cigarette lighter) M26 M180 (M181) Front heated seat switch LH (M182) Front heated seat switch RH (M183) Rear sunshade front switch Room lamp harness (M2)(R2) (R3) Vanity mirror lamp LH (R4) Sunroof motor Next page (R7) Auto anti-dazzling inside mirror Vanity mirror lamp RH (R8) (R13) Personal lamp View with instrument panel removed Interior room lamp (room/map lamps) (R14) Front door harness LH Door mirror LH (D4) (D5) Seat memory switch (D6) Trunk and fuel lid opener switch Main power window and door lock/unlock switch (Terminal No. 17) (D8) Front door sub-harness LH (D51) Front door lock assembly LH (key cylinder switch) (D10) (D50)

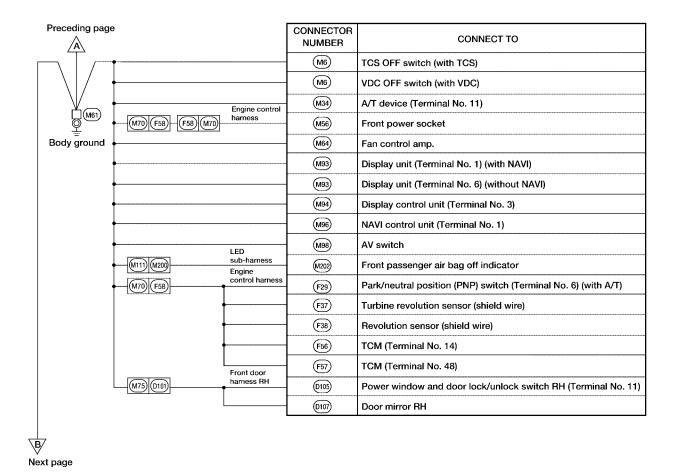
WKIA4623E

PG-31 Revision: October 2006 2006 Maxima В

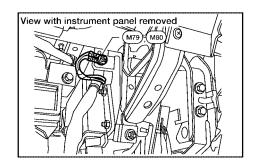
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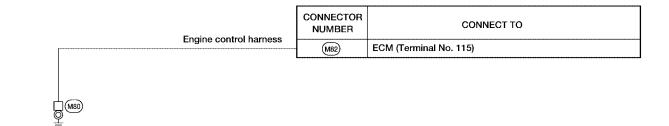


WKIA4624E



Engine ground

Preceding page	Engine control sub-harness Knock sensor sub-harness F28 F30	CONNECTOR NUMBER	CONNECT TO
M70 F58		(F11)	Crankshaft position sensor (POS)
		F23	Camshaft position sensor (PHASE) (Bank 2)
₩ ₇₉		F42	Park/neutral position (PNP) switch (Terminal No. 2) (with M/T)
볼 Body ground		(F50)	Electric throttle control actuator (throttle position sensor) (shield wire)
		(F54)	ECM (Terminal No.1)
		(F302)	Knock sensor (shield wire)
		(F303)	Camshaft position sensor (PHASE) (Bank 1)



WKIA4625E

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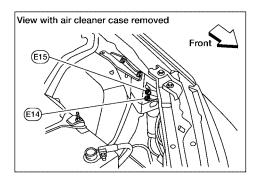
J

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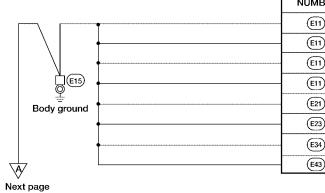
ENGINE ROOM HARNESS



	CONNECTOR NUMBER	CONNECT TO
\mathbf{I}	E4	Crash zone sensor (shield wire)

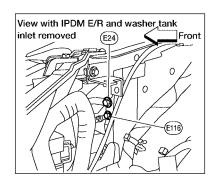


Body ground

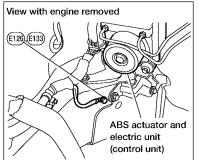


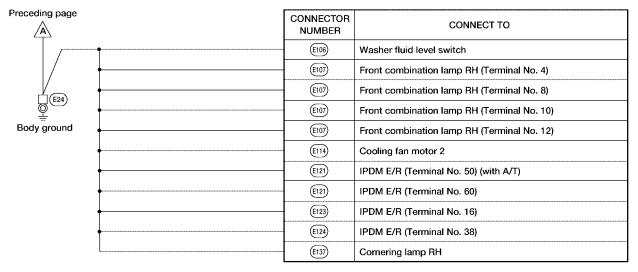
CONNECTOR NUMBER	CONNECT TO	
E11	Front combination lamp LH (Terminal No. 4)	
E11	Front combination lamp LH (Terminal No. 8)	
E11	Front combination lamp LH (Terminal No. 10)	
E11	Front combination lamp LH (Terminal No. 12)	
(E21)	Brake fluid level switch	
(E23)	Front wiper motor	
E34)	Clutch interlock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

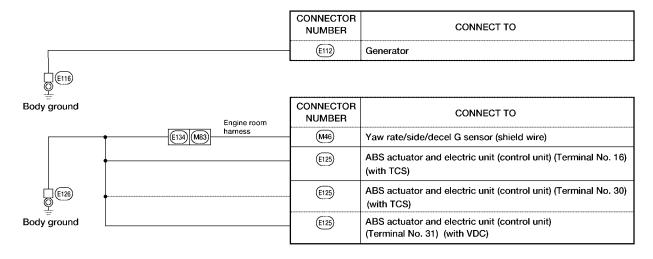
WKIA4626E

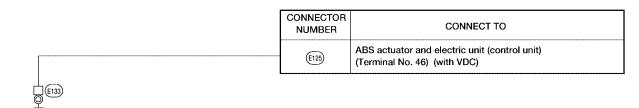


Body ground









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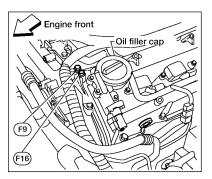
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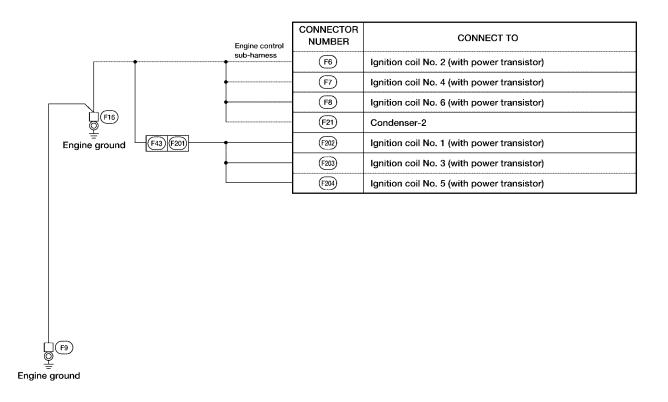
G

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M

ENGINE CONTROL HARNESS



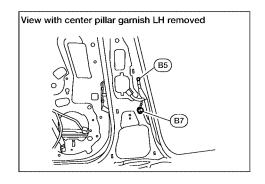


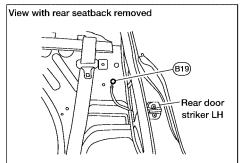
WKIA3216E

GROUND CIRCUIT

BODY HARNESS

Body ground





	CONNECTOR NUMBER	CONNECT TO
	B15	LH side air bag (satellite) sensor (with side air bags) (Early production)
B5)		
는 Body ground	CONNECTOR NUMBER	CONNECT TO
	B16)	Fuel level sensor unit and fuel pump (fuel pump)
	B35)	Rear combination lamp LH (Terminal No. 5)
	B36	Rear combination lamp RH (Terminal No. 5)
(B7)		Bluetooth control unit (Terminal No. 4)
Body ground	(B41)	Bluetooth control unit (Terminal No. 21)
	B41)	Bluetooth control unit (Terminal No. 23)
Tail harnes	T4	License lamp LH
		License lamp RH
Tail Tail harnes B29 T1 harness T3 T102 No. 2	T103	Trunk lamp switch and trunk release solenoid (Terminal No. 2)
Tail harnes T2 (1101) No. 2	(T103)	Trunk lamp switch and trunk release solenoid (Terminal No. 4)
Rear door harness Li		Rear power window switch LH (Terminal No. 7) (with left and right front power window anti-pinch system)
Seat sub-	(D203)	Rear power window switch LH (Terminal No. 11) (with from and rear front power window anti-pinch system)
harness LI	1 P2	Driver seat control unit (Terminal No. 32)
Landing desired	P3)	Driver seat control unit (Terminal No. 48)
	P8)	Power seat switch LH
	P9	Lumbar switch
	P12	Front seat heater LH
	P15)	Seat belt buckle switch LH
	CONNECTOR NUMBER	CONNECT TO
		Condenser-1

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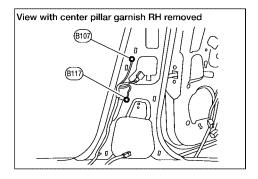
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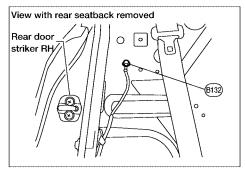
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PG

GROUND CIRCUIT

BODY NO. 2 HARNESS



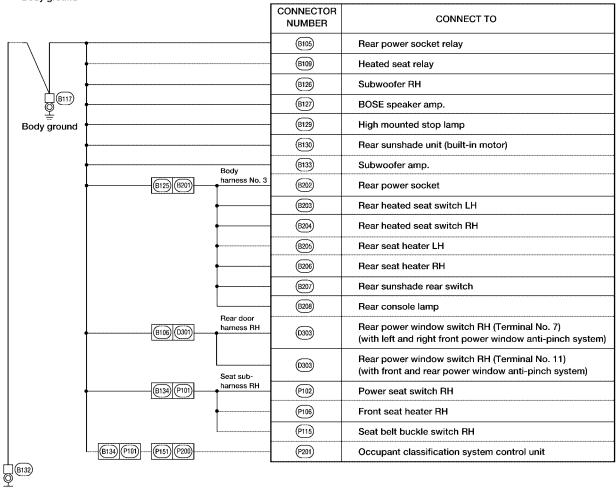


CONNECTOR NUMBER	CONNECT TO
 B114)	RH side air bag (satellite) (shield wire) sensor

B107

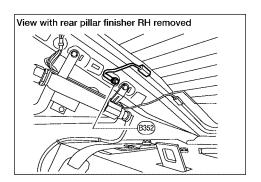
Body ground

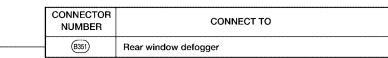
Body ground



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GROUND CIRCUIT





Body ground

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HARNESS PFP:24010

Harness Layout HOW TO READ HARNESS LAYOUT

EKS00919

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

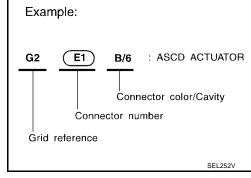
To use the grid reference

- 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.

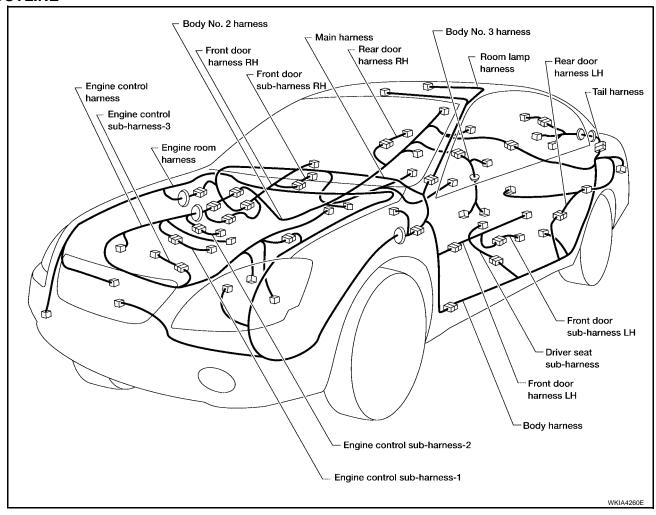
CONNECTOR SYMBOL

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

Connector type	Water p	roof type	Stand	Standard type	
Connector type	Male	Female	Male	Female	
Cavity: 4 or Less	<u> </u>	8		8	
 Relay connector 	©				
Cavity: From 5 to 8			\$		
● Cavity: 9 or More	\Diamond	\Diamond		\Diamond	
Ground terminal etc.	-	_	Ø	9	



OUTLINE



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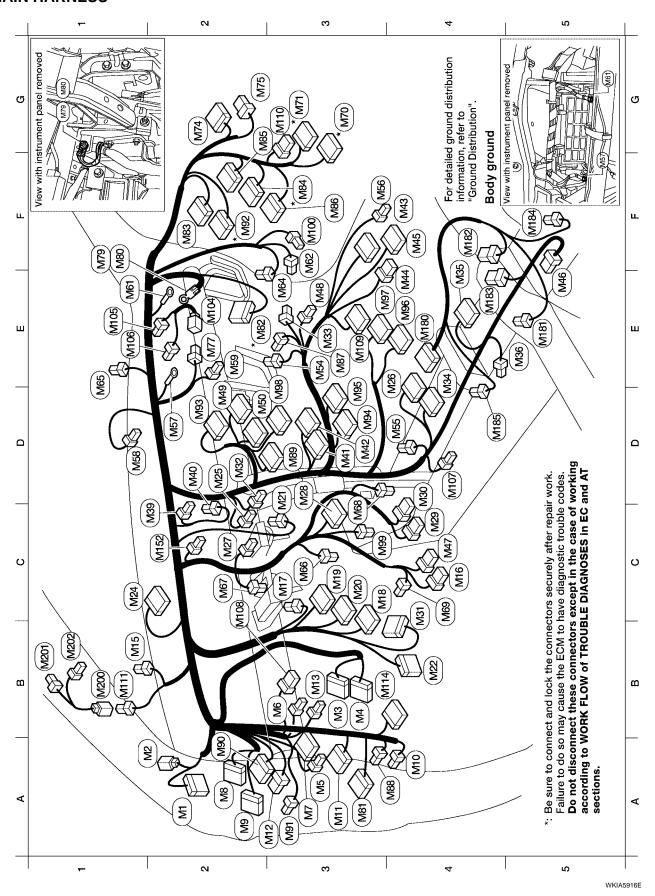
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MAIN HARNESS



F3 (W89) W/16 : To (\$100) A4 (W88) W/3 3. Air mix door motor (passenger side) A4 (W88) B/2 170 (£2) D3 (W89) W/24 1. Unified meter and A/C amp. A2 *(W90) W/16 1. O(£50) A3 (W14) 1. D(£50) A3 (W14) 1. D(£50) A3 (W14) 1. D(£50) B4 (W14) 1. D(\$100) B4 (W14) 1. D(\$100) B4 (W19) W/32 1. D(\$100) B4 (W19) W/32 1. D(\$100) B4 (W19) W/4 1. D(\$100) B4 (W19) W/4 1. D(\$100) B1 (W19) W/4 1. D(\$100) B1 (W19) W/4 1. D(\$100) B2 1. Front passenger airbag module D4 B2 1. Front passenger airbag module D4 B3 1. To (\$100) W/4 1. D(\$100)	
2 : Automatic drive positioner control unit 0 : Automatic drive positioner control unit 1 : Audio unit 2 : Audio unit 2 : Audio unit 3 : Yaw rate/side/decel G sensor 3 : Steering angle sensor 3 : Antenna amp. 20 : Unified meter and A/C amp. 11 : Unified meter and A/C amp. 12 : Unified meter and A/C amp. 13 : Intake door motor 14 : Body ground 15 : Body ground 16 : Body ground 17 : Intake door motor 18 : Body ground 19 : Body ground 19 : Sunload sensor 10 : Tilt motor 10 : Tilt motor 10 : Tilt motor 10 : Tilt motor 10 : To (frig) 10 : To (frig) 10 : To (frig) 11 : To (frig) 12 : ECM 13 : To (frig) 14 : To (frig) 15 : To (frig) 16 : To (frig) 16 : To (frig) 17 : To (frig) 18 : To (frig) 19 : To (frig)	
D3 (M4) W/32 D3 (M4) W/16 P4 (M	
: To (RI) : Fuse block (J/B) : Fuse block (J/B) : Fuse block (J/B) : Fuse block (J/B) : Illumination control switch : TCS OFF switch (with TCS) or VDC OFF switch (with VDC) : Door mirror remote control switch (with auto drive positioner) : Door mirror remote control switch (without auto drive positioner) : To (E2) : To (E2) : To (E2) : To (E3)	: Mode door motor
MIT W/16 W/17 W/18 W/18 W/18 W/18 W/18 W/18 W/18 W/18 W/19 W/	(M40) W/3
MKIVP284	2 17E

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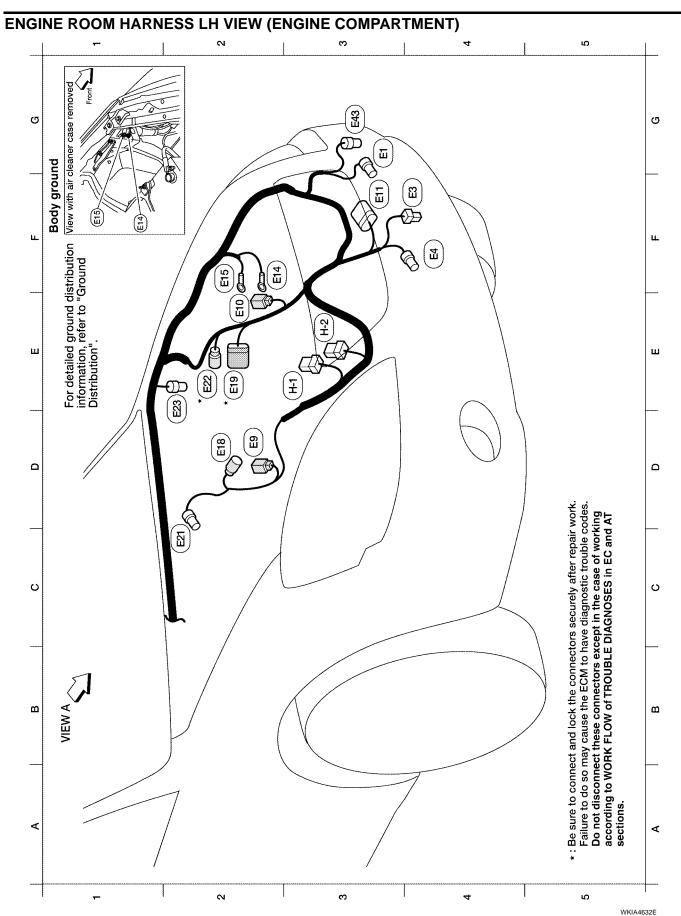
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Refer to <u>PG-47, "ENGINE ROOM HARNESS RH VIEW (ENGINE COMPARTMENT)"</u> for continuation of engine room harness.

*: 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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: Horn relay (inside fuse and fusible link box) : Front combination lamp LH : Fusible link box (battery) : Fusible link box (battery) : Front wheel sensor LH : Brake fluid level switch : Crash zone sensor : Daytime light relay : Front wiper motor : Body ground **Body ground** : Horn (low) : To (F33) To (F35) GR/12 GR/2 GR/2 GR/6 GR/9 BR/2 B/2 B/1 ۲/2 7 (E) (E14 E15 (E19) E21 * (E22) (E23) (Z) $\left(\frac{\pm}{2}\right)$ (H-2) (E) (EE) **4** 4 E3 D2 E2 F3 F2 F2 D2 E2 8

: Ambient sensor

(II)

WKIA4633E

: Cornering lamp LH

GR/2

E43

PASSENGER COMPARTMENT

Fuse block J/B : Fuse block J/B

: To (B3)

: Fuse block J/B

: To (M10) : To (M7)

(E28) W/18

: Clutch interlock switch (with M/T)

: ASCD clutch switch (with M/T and ASCD)

: Diode-1 (with DTRL) (E3) W/8 (E3) B/1 (E3) B/1 (E3) W/4 (E3) C/2 (E3) C/2 (E3) B/3 (E3) B/3 (E3) B/2 (E3

: ASCD brake switch : Stop lamp switch B/2 E38

BR/2

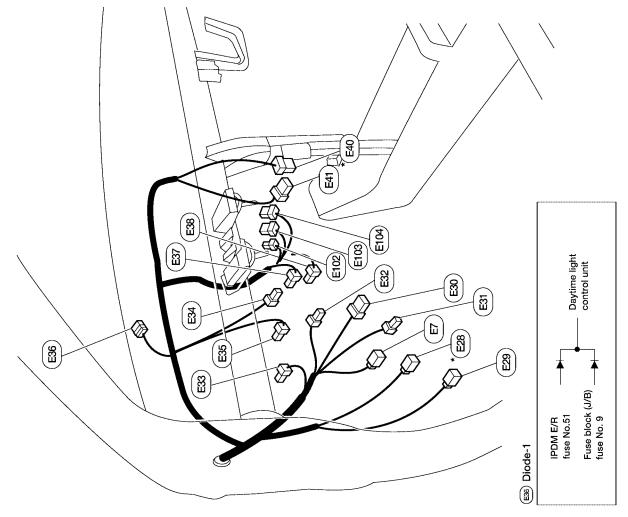
: Accelerator pedal position sensor

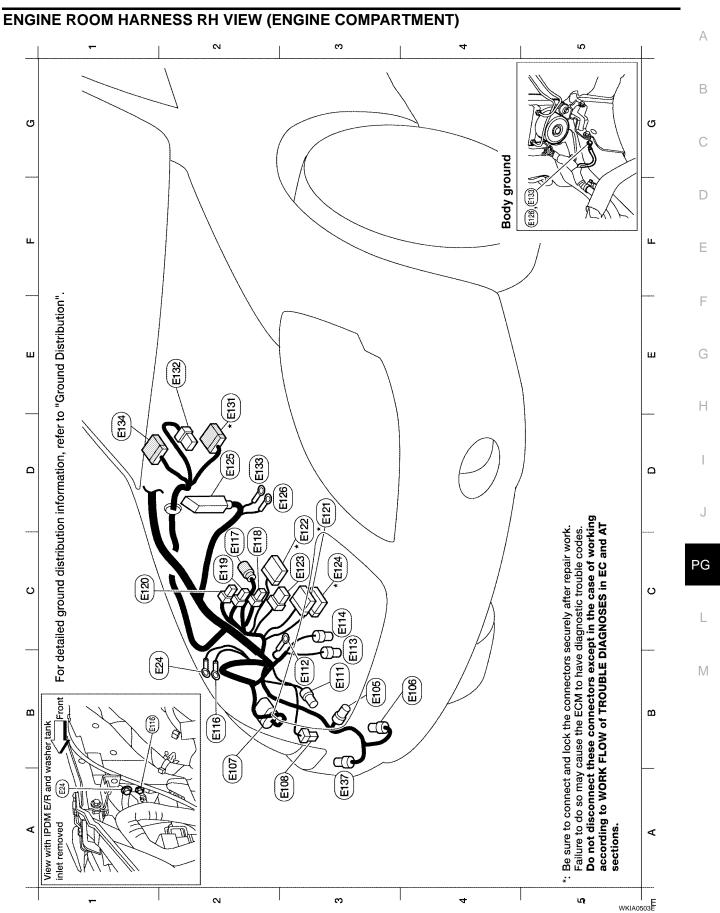
9/M , E40

: Daytime light control unit (for Canada) : Daytime light control unit (for Canada) : Ignition switch GY/4 (F41) (F41) E108 (E108)

: Daytime light control unit (for Canada)

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. Failure to do so may cause the ECM to have diagnostic trouble codes.





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

Revision: October 2006 PG-47 2006 Maxima

*: 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.

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) : 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) : IPDM E/R (Intelligent Power Distribution Module Engine Room) : ABS actuator and electric unit (control unit) (with TCS) : ABS actuator and electric unit (control unit) (with VDC) Body ground (with VDC) : Front wheel sensor RH : Body ground : Body ground : **To** (8104) : To (M92) : To (M83) GR/16 GR/30 W/16 W/12 W/10 W/20 GR/2 B/46 9/M **W/4 8/**/8 B/4 B/2 (F123) EH33 (F13) (FI 34) E120 (E121) (E122) E124 (E) E133 6 ല D3 ខ ဗ 23 20 B2 C2 5 \overline{c} **D**2 E_2 E_2 **D**2 5

: Refrigerant pressure sensor

: Cooling fan motor-2

ဗ

Cooling fan motor-1

GR/4 GR/4

B3

Generator (ground)

(E)

: Washer fluid level switch: Front combination lamp RH

GR/12

B4 B2 : Horn (high)

B/1 B/3

(E)

B3 B3

: Front washer motor

GR/2

E108 (E108)

B3

: Body ground

WKIA4635E

: Cornering lamp RH

GR/2

(E)

GR/2 : Generator - : Generator			E3 * (F)	* * *	BR/8 B/6	: Terminal cord assembly : Mass air flow sensor	Engine contr	Engine control sub-harness-1 *(Fi0) G/8 : To (F44)
B/1 : A/C compressor	: A/C compressor		*		GR/9	: To E19	* F102	: Fuel injector No. 1
GR/2 : Intake valve timing control E3 solenoid valve (Bank 2) E3	: Intake valve timing control solenoid valve (Bank 2)	iii iii	* *		GR/2 L/2	: To E22) : Turbine revolution sensor	C1 * (F103) GR/2 D2 * (F104) GR/2	: Fuel injector No. 3 : Fuel injector No. 5
B/6 : Air fuel ratio (A/F) sensor 1 (Bank 2) D4 GR/3 : Ignition coil No. 2 (with power	: Air fuel ratio (A/F) sensor 1 (Bank 2) : Ionition coil No. 2 (with power	7 8	*	_	72	: Revolution sensor	E1 *(F105) L/2	: EVAP canister purge volume control solenoid valve
transistor)	transistor)	ក្ត ក		E (1		: Fusible link box (battery)	C2 (F106) B/1	: Oil pressure switch
GR/3 : Ignition coil No. 4 (with power transistor) D4	: Ignition coil No. 4 (with power transistor)	3 4			B/2	: Back-up lamp switch (with M/T)	C2 * F107) G/2	: Intake valve timing control solenoid valve (Bank 1)
GR/3 : Ignition coil No. 6 (with power F3 transistor	: Ignition coil No. 6 (with power transistor	ဌ	* (F42)		B/2	: Park/neutral position (PNP) switch (with M/T)	Engine contr	Engine control sub-harness-2
- : Engine ground D1	10		*	* (F43)	9/9	: To FZOI)	D1 * (F201) G/6	: To (F43)
BR/3 : Front electronic controlled engine C1 *	: Front electronic controlled engine C1				G/8	: To (F101)	C1 * (F202) GR/3	: Ignition coil No. 1
C1 (POS)	C1 (POS)		<u>.</u>	* F46	B/3	: Power steering pressure sensor	(
B/4 : Heated oxygen sensor 2	* 50 (E2 *	* 1			GR/6	: Electric throttle control actuator	D2 * (F203) GR/3	: Ignition coil No. 3 (with power transistor)
(Bank 2) G5	G 49		<u>ک</u> رو		10/0	· ECIM	D2 * (F204) GR/3	: Ignition coil No. 5
	9 29		ب *			: TCM (transmission control module)		(will power transistor)
	G5		ت ر			: To (M7®)	Engine contr	Engine control sub-harness-2
GR/2 : Fuel injector No. 2 G5 *	: Fuel injector No. 2			ر *	W/16	: To (M71)	C4 * (F301) GR/6	: To F26
B/2 : VIAS control solenoid valve G5		35	(m)	- -	74	: A/T PV IGN Relay	C1 * F302 B/2	: Knock sensor
GR/2 : Fuel injector No. 4 E4 *	: Fuel injector No. 4	*		(F62)	GR/6	: Terminal cord assembly	C1 * F303 G/3	: Camshaft position sensor (PHASF) (Rank 1)
GR/2 : Condenser-2 C3 *	: Condenser-2 C3 *	*	<u> </u>	(FB)	GR/2	: EGR temperature sensor		
GR/2 : Fuel injector No. 6 E2	: Fuel injector No. 6	22		F64	GR/6	: EGR volume control valve		
B/3 : Camshaft position sensor (PHASE) D1 * (Bank 2)		٠ ۲	Œ,	Fes	B/6	: Air fuel ratio (A/F) sensor 1 (Bank 1)		
* (F24) GR/2 : Engine coolant temperature sensor	: Engine coolant temperature							
BR/3 : Rear electronic controlled engine mount (with A/T)								

*: 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.**

: Park/neutral position (PNP) switch

GR/10

* (F29)

WKIA4636E

GR/1

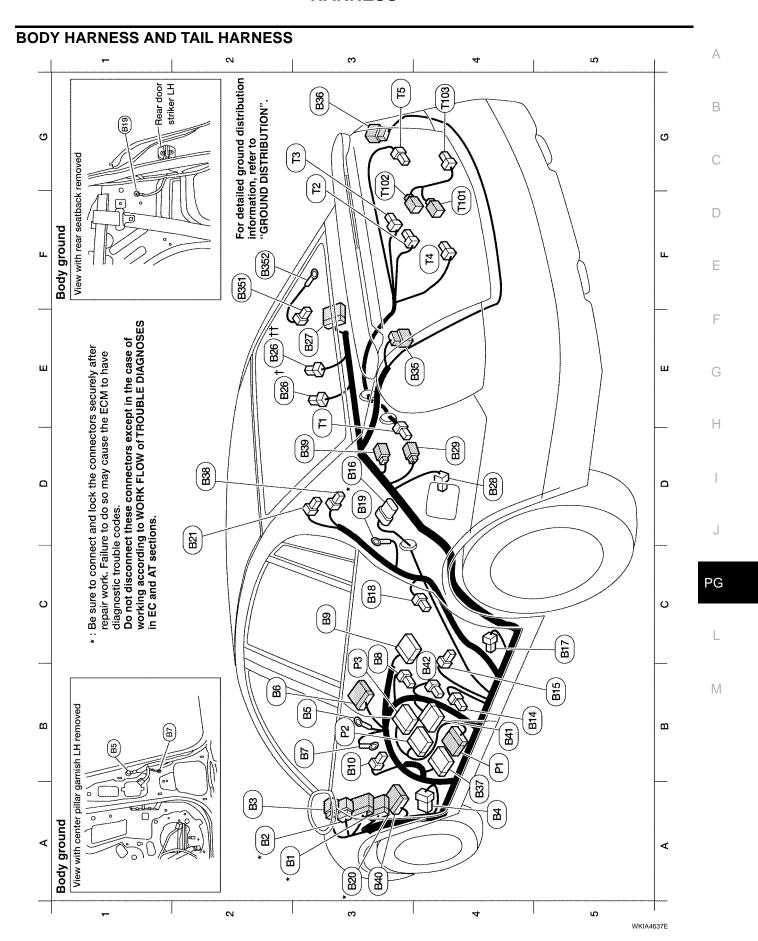
(with A/T)

: Starter motor : Starter motor

: To Fait

GR/6

C3 C3 D4 D4 D4



		í		:
••	To (M11)	D2	(B38) Y/2	: LH side curtain air bag module
9/M	: To (M12)	<u> </u>	B39 W/2	: Diode-5
W/4	: To E33	A3	(B40) W/20	: To (M14)
·C	: Rear window defogger relay	B4	(B41) W/32	: Bluetooth control unit
,	: Body ground (Early production)	C4	(B42) GR/1	: Bluetooth control unit
OI.	: To (220)			
	: Body ground	Drive	Driver seat sub-harness	arness
	: Front door switch LH	B4	P1 W/18	: To (B37)
	: Air bag diagnosis sensor unit	B3	(P2) W/32	: Driver seat control unit
Y/2	: Front LH side air bag module	B3	P3 W/16	: Driver seat control unit
	: Front LH seat belt pre-tensioner			
	: LH side air bag (satellite) sensor	Tail	Tail harness	
10	: Fuel level sensor unit and fuel pump	E3	(T) W/4	: To (B29)
	: Condenser-1	F3	(T2) B/2	: To (T10!)
	: Rear door switch LH	63	(T3) W/2	: To (T102)
	: Body ground	F4	(T4) B/2	: License lamp LH
W/24	: To (M81)	G 3	(T5) B/2	: License lamp RH
(B21) W/1	: Condenser	F4	(T10) B/2	: To (T2)
	: Subwoofer LH (without BOSE audio system)	63	(T102) W/2	: To T3
	: Subwoofer LH (with BOSE audio system)	G4	(T103) W/4	: Trunk lamp switch and trunk release solenoid
W/12	: To (B131)			
	: Fuel lid opener actuator	Rear	defogger gr	Rear defogger ground harness
	: To (T)	F2	(B351) B/1	: Rear window defogger
	: Rear combination lamp LH	F2	B352	: Body ground
9/M	: Rear combination lamp RH			

ВЗ7 W/18 : То РП

B4

Body harness

: 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.

WKIA5918E

Body harness No. 2

GR/16 : To (M84

: To (M85)

(M86) ျှ

: To (E132)

To rear power socket relay 7 B105

92

To (3301) W/12 B100

Body ground (Early production) : Front door switch RH (B)

> F4 **F**4 **F**4 E3

: Heated seat relay BR/6 (B)

: Front RH side air bag module Υ/2 B112

: Air bag diagnosis sensor unit Y/12 B114 B113)

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

F5

: Rear door switch RH **X**

: Body ground (B118) (B117)

33

E3

RH side curtain air bag module GR/3 ۲/2 (B119)

: EVAP control system pressure sensor B121 **A**2 44

: EVAP canister vent control valve

: Rear wheel sensor RH GR/2 B122 છ

Rear wheel sensor LH : **To** (B201) W/10 72 B125 B123

: Subwoofer RH (without BOSE audio system) B126

: Subwoofer RH (with BOSE audio system) BR/6 B126

BOSE speaker amp. GR/8 B127

: High mounted stop lamp BOSE speaker amp. B/24 B128 B129 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.

: To (B27) W/12

: Rear sunshade unit

: Body ground D3 B2

W/10

Subwoofer amp. (without BOSE audio system)

To (P101) W/16 B134

: Trunk room lamp W/2 (E)

To (M110) BR/8 B136

E2 C2 G3 G3

Satellite radio tuner or pre-wiring for satellite radio tuner W/16 B137

: Belt tension sensor B/3

B138

B3

E4

Satellite radio tuner (with Sirius satellite radio) BR/1 (B139)

Satellite radio tuner (with XM satellite radio) // (13) B3 8

Satellite radio antenna (with Sirius satellite radio) GR/1 314

: Satellite radio antenna (with XM satellite radio) BR/1 B140 22

To (8134) **To** (P200) W/16 8//8 [6] F3

To (P151) 8/M (SZ)

: Occupant classification system control unit B/18 F2

Body harness No. 3

: To (B125) W/10 (Egg) 23 2

: Rear power socket B/2 B202

: Rear heated seat switch RH : Rear heated seat switch LH BR/6 9/M B203 (R204 2 g 2

: Rear seat heater LH W/3 W/3 (R) (%) (%) 2

Rear seat heater RH

: Rear sunshade rear switch 9/M (8204) (8208) (8208) 2 2

: Rear console lamp **4/W**

WKIA5973E

ROOM LAMP HARNESS

R11) W/2 : Diode-3 R12) W/2 : Diode-4

R15 W/4 : Microphone

R13 W/6 : Personal lamp (with sunroof)
R14 W/8 : Interior room lamp (without sunroof)

R16 W/4 : Bluetooth on indicator

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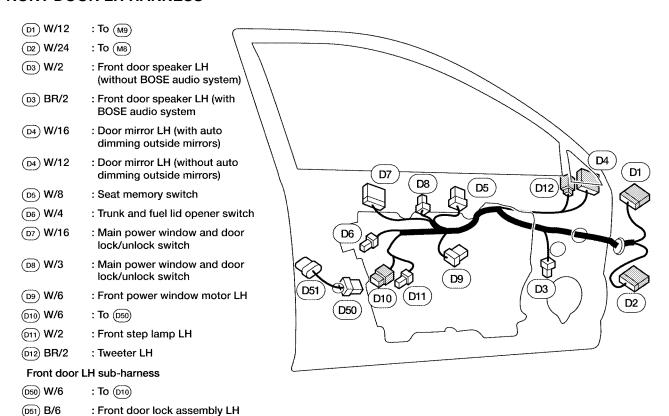
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WKIA4641E

FRONT DOOR LH HARNESS



FRONT DOOR RH HARNESS

(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 (D106) (D101) D103 (D151 (D150)

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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)

(2003) †† W/16 : Rear power window switch LH (with 4-door power

window anti-pinch system)

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

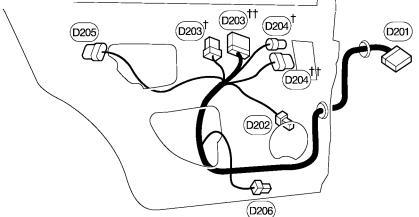
front window anti-pinch system)

(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)

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

(333)[†] 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)

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

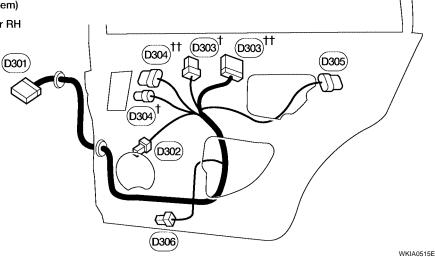
front window anti-pinch system)

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

window anti-pinch system)

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

©306 W/2 : Rear step lamp RH



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Wiring Diagram Codes (Cell Codes)

EKS009IA

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

F/PUMP	EC	Fuel Pump
FTS	AT	A/T Fluid Temperature Sensor
FTSP	AT	A/T Fluid Temperature Sensor Failure
FTTS	EC	Fuel Tank Temperature Sensor
FUELB1	EC	Fuel Injection System Bank 1
FUELB2	EC	Fuel Injection System Bank 2
H/LAMP	LT	Headlamp
HORN	WW	Horn
H/PHON	AV	Hands Free Telephone
HSEAT	SE	Heated Seat
H/STRG	PS	Heated Steering Wheel
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)
IATS	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System
ILL	LT	Illumination
INF/D	AV	Vehicle Information and Integrated Switch System
INJECT	EC	Injector
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2
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	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 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
ROOM/L	LT	Interior Room Lamp
RP/SEN	EC	Refrigerant Pressure Sensor
S/SIG	EC	Start Signal
SEAT	SE	Power Seat

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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

ELECTRICAL UNITS LOCATION

ELECTRICAL UNITS LOCATION

PFP:25230

EKS009IB

Electrical Units Location ENGINE COMPARTMENT

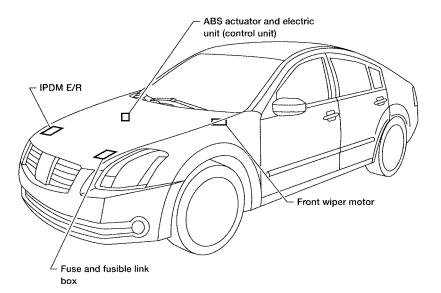
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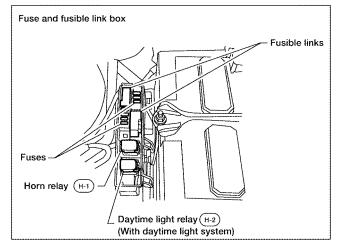
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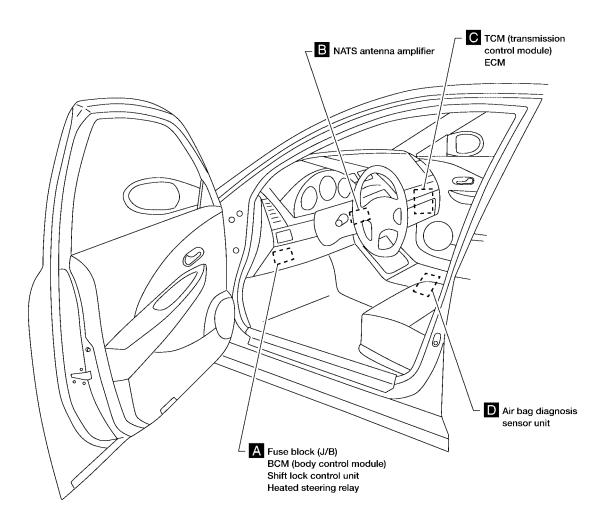
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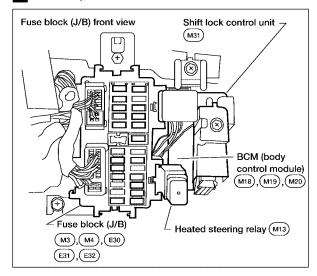
WKIA4273E

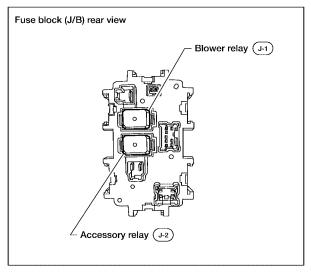
ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT



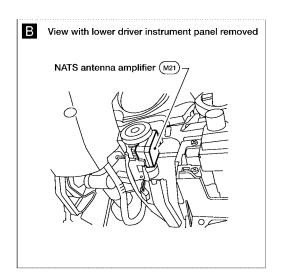
A Instrument panel side LH

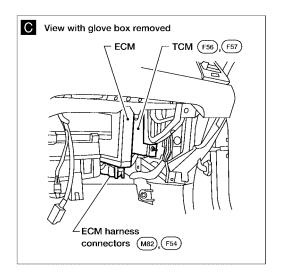


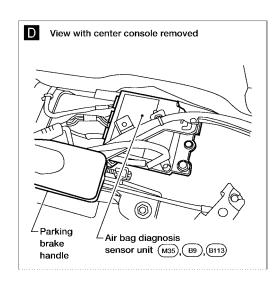


WKIA3221E

ELECTRICAL UNITS LOCATION







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WKIA0476E

HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:B4341

DescriptionHARNESS CONNECTOR (TAB-LOCKING TYPE)

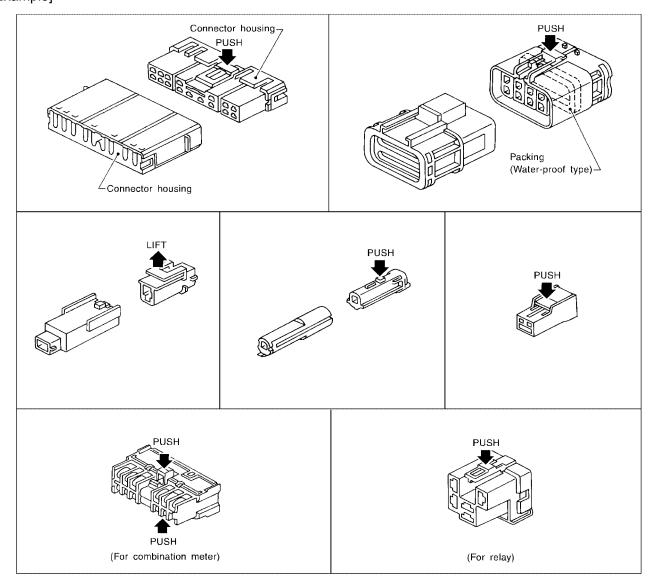
EKS009IF

- 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.

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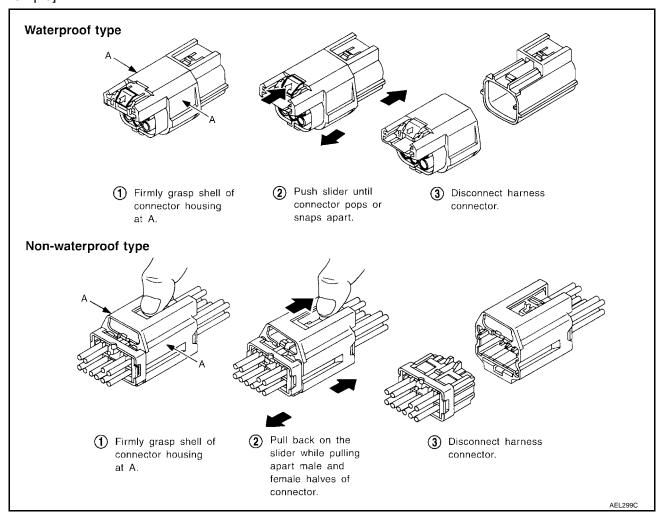
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The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the illustration below.

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]



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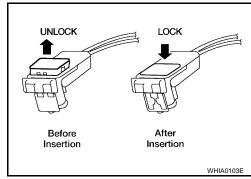
HARNESS CONNECTOR

HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

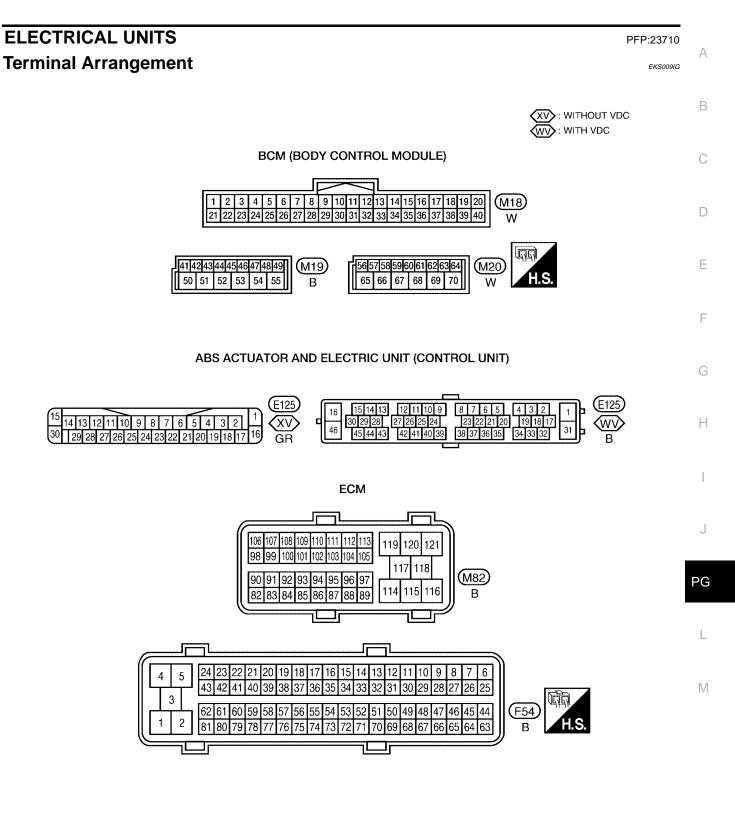
- SRS direct-connect type harness connectors are used on certain SRS components such as air bag modules and seat belt pre-tensioners.
- Always pull up to release black locking tab prior to removing connector from SRS component.
- Always push down to lock black locking tab after installing connector to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

CAUTION:

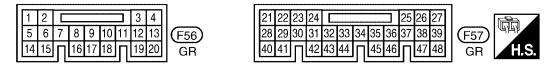
 Do not pull the harness or wires when removing connectors from SRS components.



ELECTRICAL UNITS



TCM (TRANSMISSION CONTROL MODULE)



WKIA4261E

STANDARDIZED RELAY

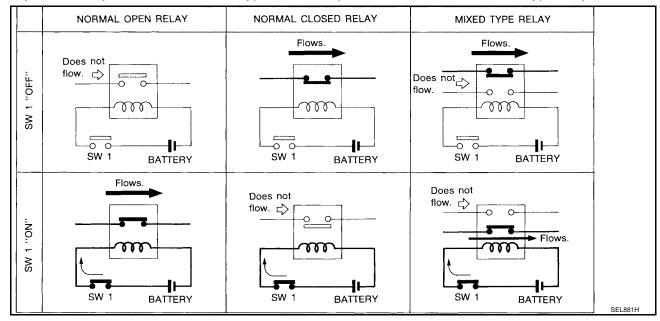
STANDARDIZED RELAY

PFP:25230

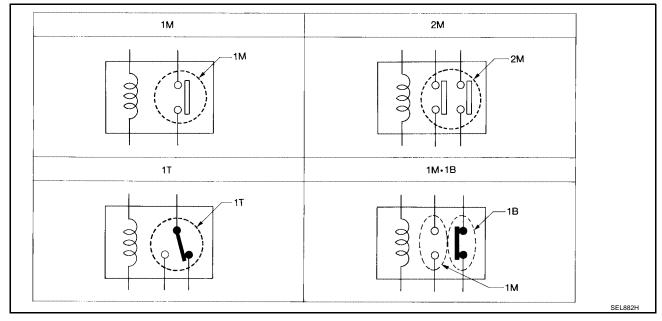
DescriptionNORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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	2 1 7 5 6 3	BROWN
1M -1B	6 7 4	1 6 3	2 1 6 7 3 4	GRAY
	2 1	2 33 0 1 3	2 3 1	BLACK
1M	3	1 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 5 2 1	BLUE

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

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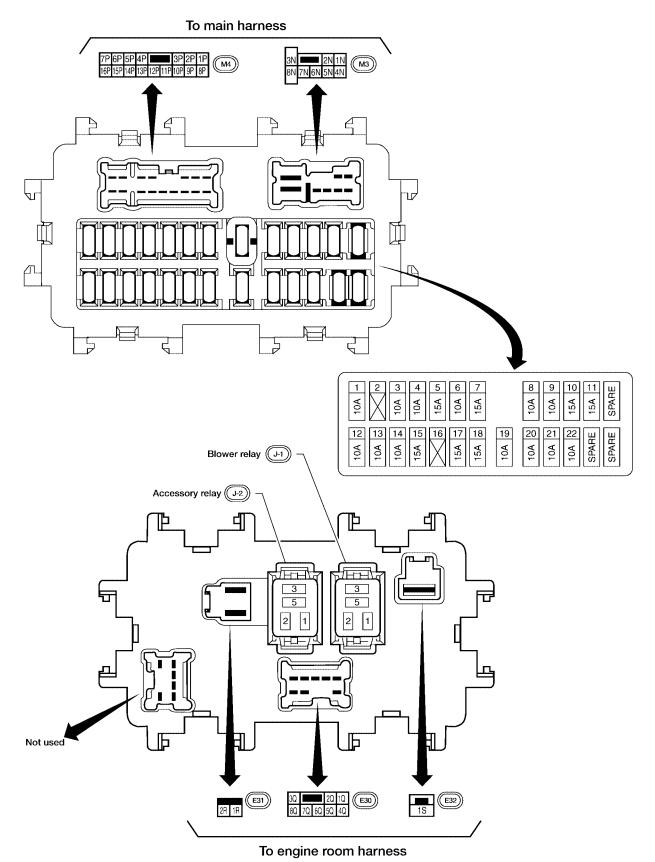
FUSE BLOCK-JUNCTION BOX (J/B)

FUSE BLOCK-JUNCTION BOX (J/B)

PFP:24350

Terminal Arrangement

EKS009II



WKIA4643E

FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX

PFP:24381

Terminal Arrangement

EKS009IJ

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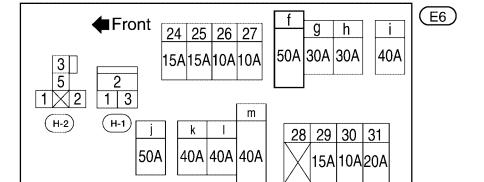
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24 - 31: FUSE

f - m: FUSIBLE LINK

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FUSE AND FUSIBLE LINK BOX