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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.

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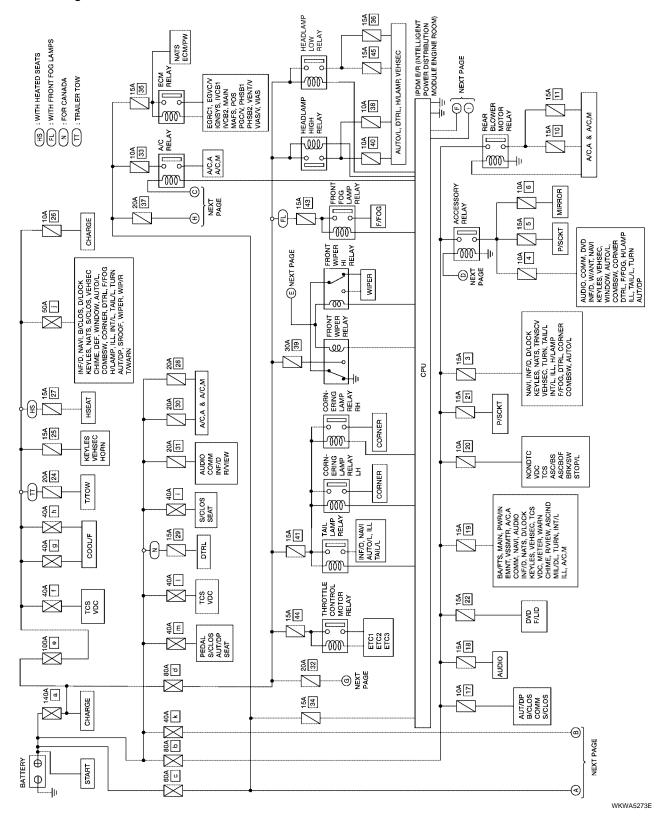
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POWER SUPPLY ROUTING CIRCUIT

PFP:24110

Schematic

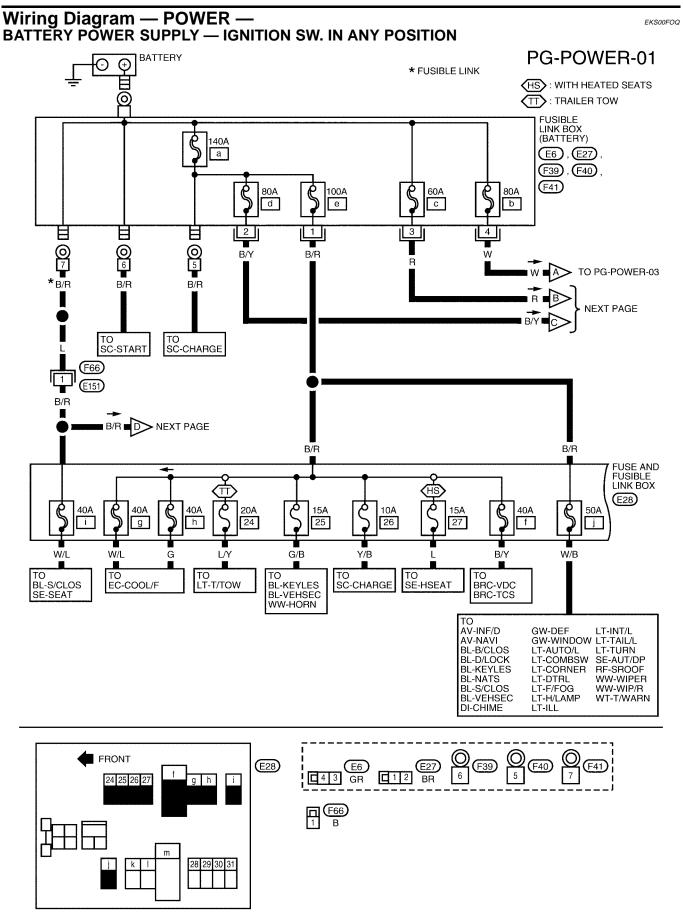
For detailed ground distribution, refer to PG-30, "Ground Distribution".



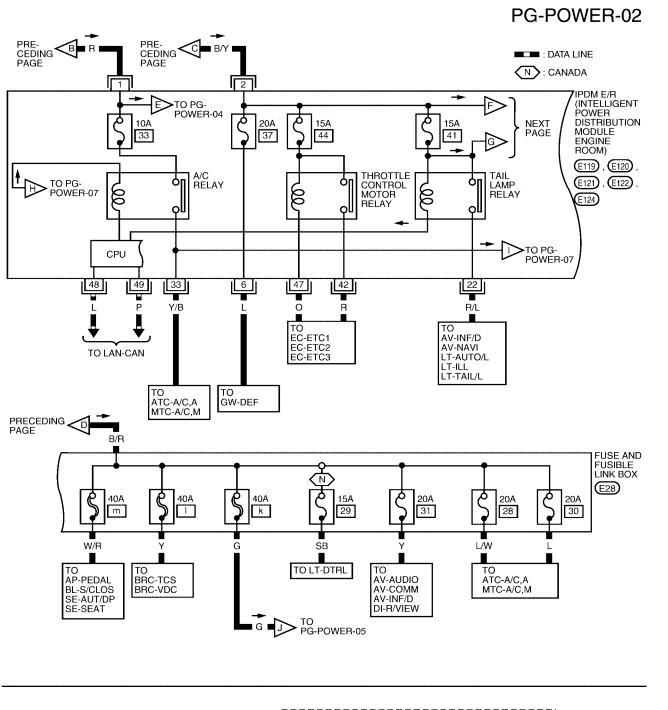
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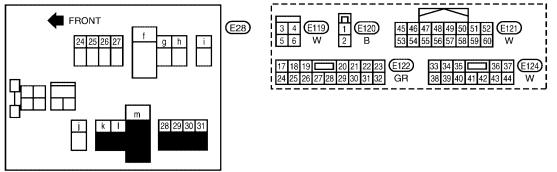
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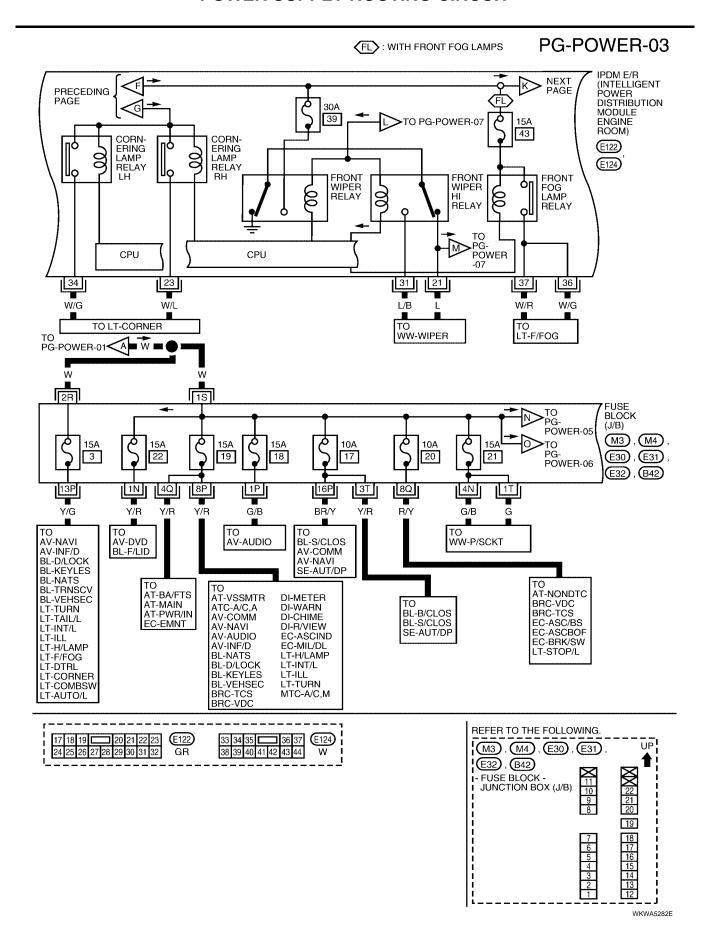
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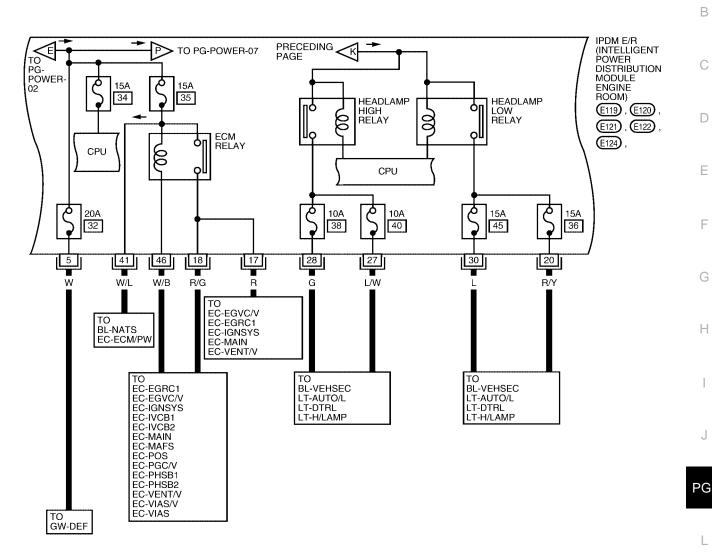
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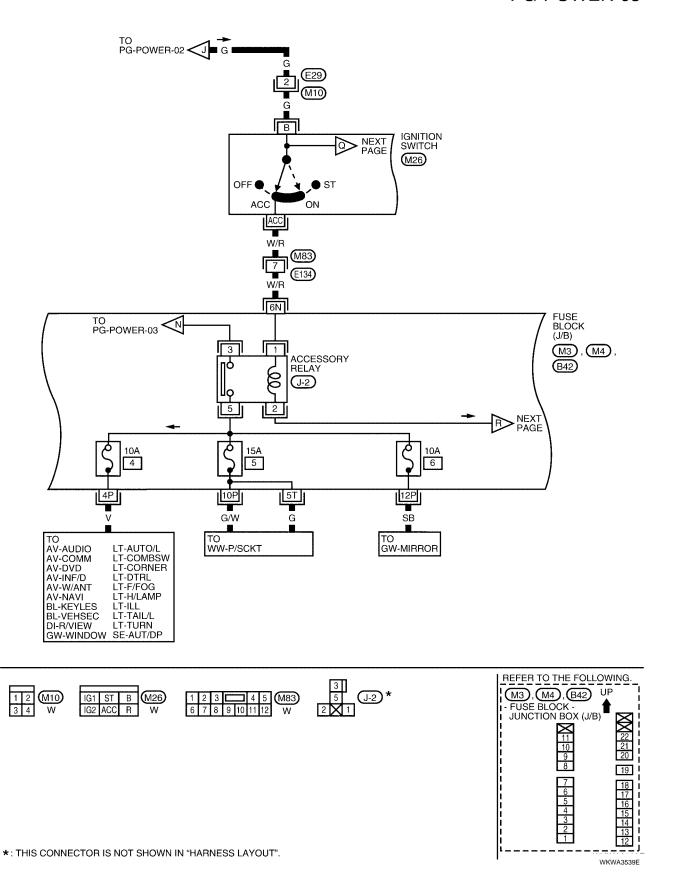
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ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON

PG-POWER-05



IGNITION POWER SUPPLY — IGNITION SW. IN ON

PG-POWER-06

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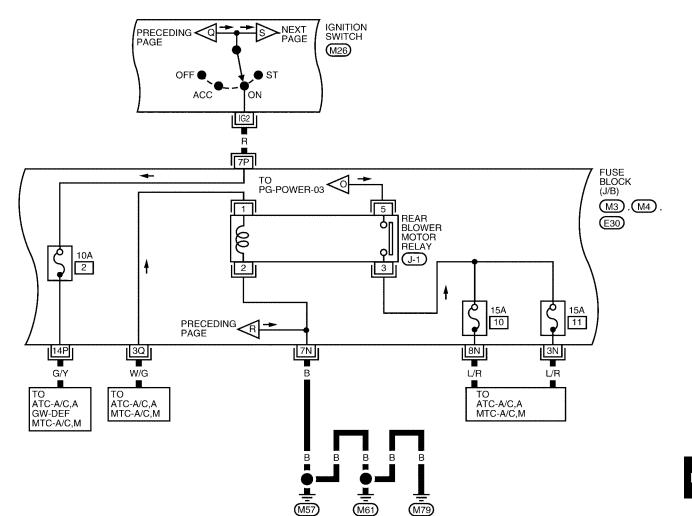
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REFER TO THE FOLLOWING M3, M4, E30 UP FUSE BLOCK -JUNCTION BOX (J/B) 19 WKWA3540E

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

PG-11 Revision: July 2006 2006 Quest

IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START PG-POWER-07 (A4): WITH 4 SPEED A/T **IGNITION** TO PG-POWER-09 (A5): WITH 5 SPEED A/T PRECEDING < SWITCH **PAGE** M26ACC IGN B/W 4 IG1 (M10) B/W B/W IPDM E/R (INTELLIGENT POWER PG-POWER-04 DISTRIBUTION MODULE TO PG-POWER-03 **IGNITION** ENGINE RELAY 3 TO PG-POWER-02 ←H ROOM) (E118), (E121), E122 , E124 TO PG-POWER-15A 10A 10A 10A 10A 15A TO PG-POWER 47 50 48 42 49 46 CPU **FUEL** PUMP RELAY PWR SIGNAL INHIB 00 SW GND GND 43 60 40 38 50 39 25 26 44 24 A4>: R/Y B/O GR Y/R В B/Y TO TΩ TO EC-F/PUMP BRC-TCS ww-wiper BRC-VDC WW-WIP/R TO AT-BA/FTS AT-VSSA/T AT-MAIN AT-PWR/IN EC-AF1B1 FC-02S2B1 EC-AF1B1 EC-0252B1 EC-AF1B2 EC-02H2B2 EC-AF1HB1 EC-02H2B1 EC-O2S2B2 EC-FUELB2 AT-MAIN AT-PWR/IN AT-TRSA/T DI-AT/IND TO ATC-A/C,A MTC-A/C,M (E9) (E24) **E**15 IG1 ST B (M26) 45 46 47 48 49 50 51 52 33 34 35 36 37 38 39 40 41 42 43 44 (E118) (E121) (E124) IG2 ACC R 53 54 55 56 57 58 59 60 9 10 W В GR

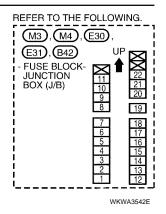
WKWA5283E

PG-POWER-08

PRECEDING T B/W PAGE 1R FUSE BLOCK (J/B) NEXT PAGE M3, M4 10A 12 10A 8 E30 E31) (B42) 2Q 2T 5N 1Q G L/B G G G TO GW-DEF TO
AT-PNP/SW
BRC-VDC
EC-ASCBOF
EC-ASC/BS
EC-PNP/SW
LT-DTRL
SC-START TO AT-NONDTC AV-AUDIO AV-COMM то BL-B/CLOS BL-S/CLOS DI-SONAR AV-COMM AV-NAVI AV-INF/D BL-S/CLOS BRC-VDC DI-R/VIEW EC-MIL/DL SE-HSEAT GW-DEF

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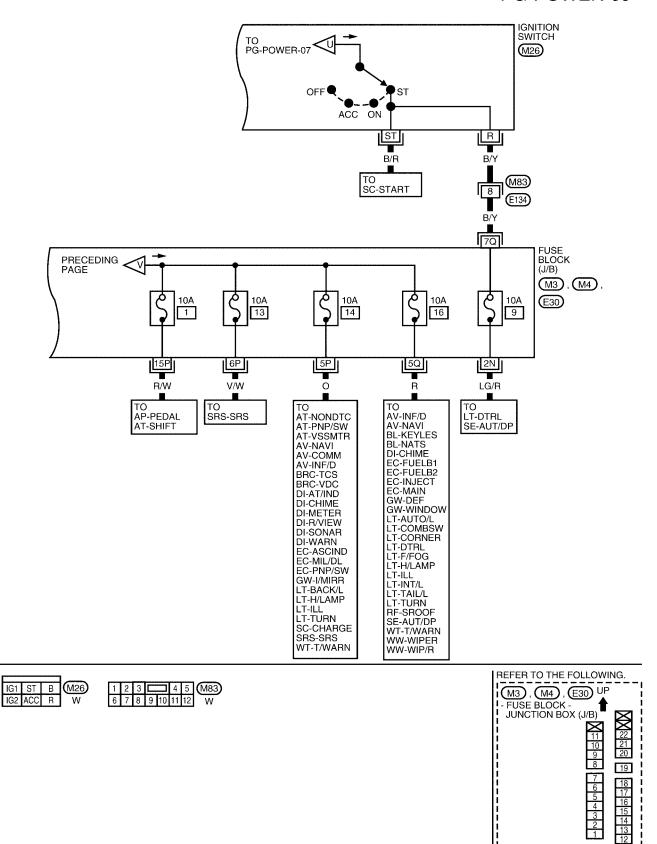
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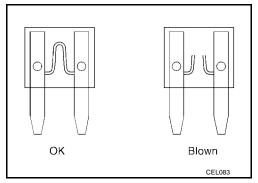
WKWA3543E



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:

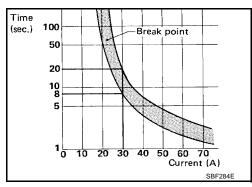
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of incident.
- Never wrap outside of fusible link with vinyl tape.
- Never let fusible link touch any other wiring harness,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



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EKS00GAC

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

PFP:284B7

System Description

EKS00FOR

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

CAUTION:

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 signals from the BCM and controls the following lamps:

- Headlamps (Hi, Lo)
- Parking lamps
- Tail and license plate lamps
- Cornering lamps
- Front fog lamps
- 2. Wiper control

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

- 3. Rear window defogger relay control
 - Using CAN communication lines, it receives signals from the BCM and controls the rear window defogger relay.
- 4. A/C compressor control
 - Using CAN communication lines, it receives signals from the ECM and controls the A/C compressor (magnet clutch).
- 5. Starter control
 - Using CAN communication lines, it receives signals from the BCM and controls the starter relay.
- Cooling fan control
 - Using CAN communication lines, it receives signals from the ECM and controls the cooling fan relays.
- Horn control
 - Using CAN communication lines, it receives signals from the BCM and controls the 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.
	With the ignition switch OFF, the headlamp (low) is OFF.
Tail, license plate and parking lamps	With the ignition switch ON, the tail lamp relay is ON.
	With the ignition switch OFF, the tail lamp relay is 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

Controlled system	Fail-safe mode	
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.

CAN Communication System Description

EKS00FOS

Refer to LAN-24, "CAN COMMUNICATION" .

Function of Detecting Ignition Relay Malfunction

EKS00FO

- When the integrated ignition relay is stuck in a "closed contact" position and cannot be turned OFF, IPDM E/R turns ON tail, license plate 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 lamp relay is 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.

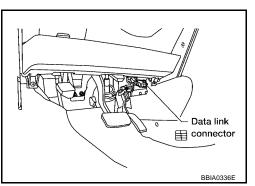
IPDM E/R diagnostic Mode	Description	
SELF-DIAG RESULTS	Displays IPDM E/R self-diagnosis results.	
DATA MONITOR	Displays IPDM E/R input/output data in real time.	
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.	
ACTIVE TEST	Operation of electrical loads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

CONSULT-II BASIC OPERATION

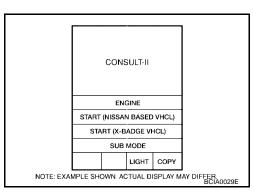
CAUTION:

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.

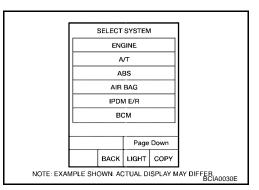
1. With the ignition switch OFF, connect CONSULT-II and CON-SULT-II CONVERTER to the data link connector, then turn ignition switch ON.



Touch "START (NISSAN BASED VHCL)".

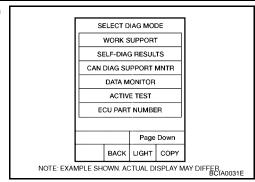


- 3. Touch "IPDM E/R" on "SELECT SYSTEM" screen.
 - If "IPDM E/R" is not displayed, go to GI-38, "CONSULT-II Data Link Connector (DLC) Circuit".



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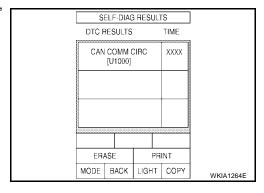
Select the desired part to be diagnosed on the "SELECT DIAG MODE" screen.



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	Malfunction detection		ME	Possible causes
Display items	display code	Mailunction detection	CRNT	PAST	
NO DTC IS DETECTED. FUR- THER TESTING MAY BE REQUIRED.	_	_		_	_
CAN COMM CIRC	U1000	 If CAN communication reception/transmission data has a malfunction, 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

- 1. 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. 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".

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All Signals, Main Signals, Selection From Menu

	CONSULT-II		Мо	onitor item se	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
Tail, license plate, and parking lamp request	TAIL & CLR REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Headlamp low beam request	HL LO REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Headlamp high beam request	HL HI REQ	ON/OFF	Х	Х	Х	Signal status input from BCM
Front fog 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	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
Hood switch	HOOD SW (*1)	OFF	Х			Signal status input from IPDM E/R
Theft warning horn request	THFT HRN REQ (*1)	ON/OFF	Х		Х	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.
- (*1) This item is displayed, but does not function.

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.

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

Auto Active Test DESCRIPTION

EKS00FOV

- 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 plate and parking lamps
- Cornering lamps
- Front fog lamps
- Headlamps (Hi, Lo)
- A/C compressor (magnet 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:

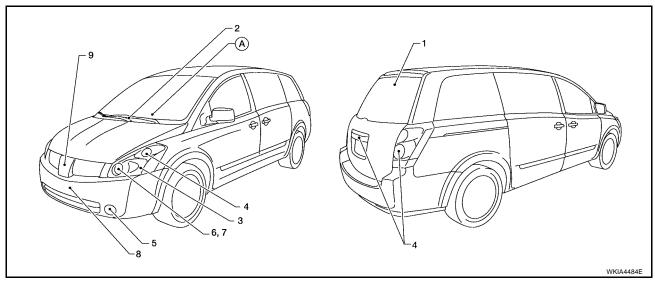
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

Be sure to perform <u>BL-44, "Door Switch Check (With Automatic Back Door System)"</u> or <u>BL-42, "Door Switch Check (Without Automatic Back Door System)"</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 plate, and parking lamps	10 seconds
5	Front fog lamps	10 seconds
6	Headlamps (low)	10 seconds
7	Headlamps (high)	ON-OFF 5 times
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	Inspection contents		Possible cause	
		YES	BCM signal input circuit	
Rear window defogger does not operate.	Perform auto active test. Does rear win- dow defogger oper- ate?	NO	 Rear window defogger relay Open circuit of rear window defogger IPDM E/R malfunction Harness or connector malfunction between IPDM E/R and rear window defogger 	
Any of front winers tail	Perform auto active test. Does system in question operate?	YES	BCM signal input system	
Any of front wipers, tail, license plate and parking lamps, front fog lamps, cornering lamps, and headlamps (Hi, Lo) do not 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 	

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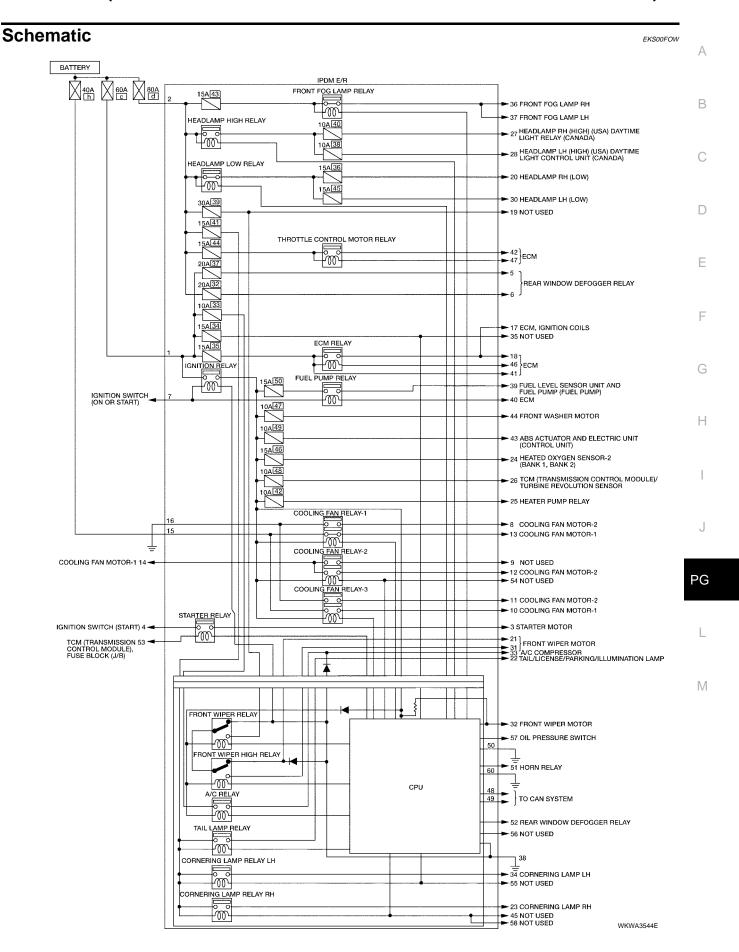
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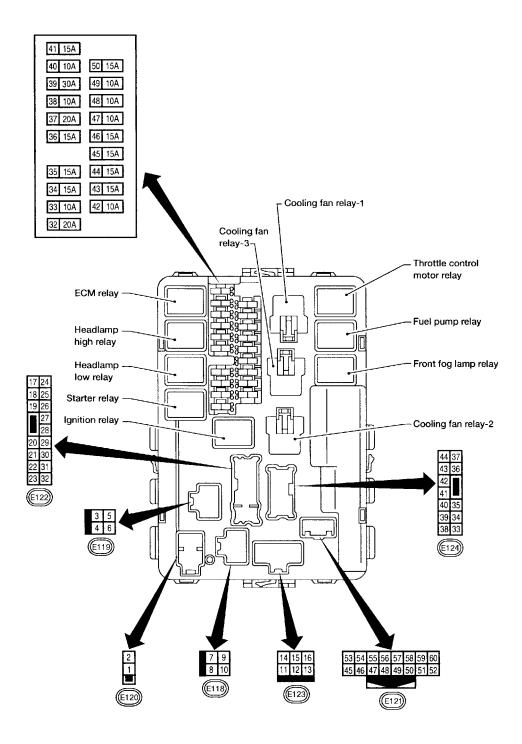
L

Symptom	Inspection contents		Possible cause		
N/C 0070000000 doo	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 not operate.	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		
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		
		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 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 IPDM E/R		
		NO	CAN communication signal between BCM and Combination Meter Combination meter		



IPDM E/R Terminal Arrangement

EKS00FOX



WKIA1203E

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	c, d	

OK or NG

OK >> GO TO 2.

NG >> Replace fuse or fusible link.

2. POWER CIRCUIT INSPECTION

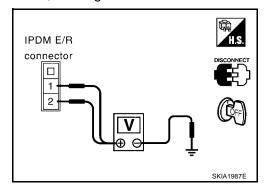
- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R harness connector E120.
- Check voltage between IPDM E/R harness connector E120 terminals 1, 2 and ground.

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

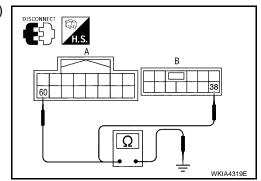
- Disconnect IPDM E/R harness connectors E121 and E124.
- 2. Check continuity between IPDM E/R harness connector (A) E121 terminal 60, (B) E124 terminal 38 and ground.

Continuity should exist.

OK or NG

OK >> Inspection End.

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



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Revision: July 2006 PG-27 2006 Quest

Inspection with CONSULT-II (Self-Diagnosis)

EKS00FOZ

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.
- 3. 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.>> CAN COMM CIRC>>Print out the self-diagnosis result and refer to <u>LAN-24</u>, "CAN COMMUNICATION".

Removal and Installation of IPDM E/R REMOVAL

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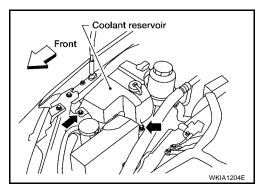
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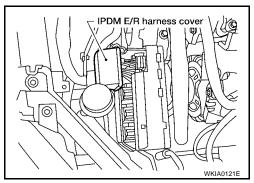
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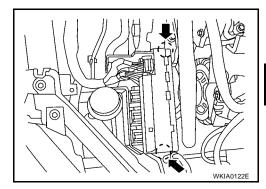
- 1. Disconnect negative battery cable.
- 2. Remove coolant reservoir fasteners.
- 3. Move coolant reservoir aside.
- 4. Remove IPDM E/R upper cover.



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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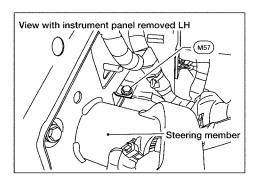
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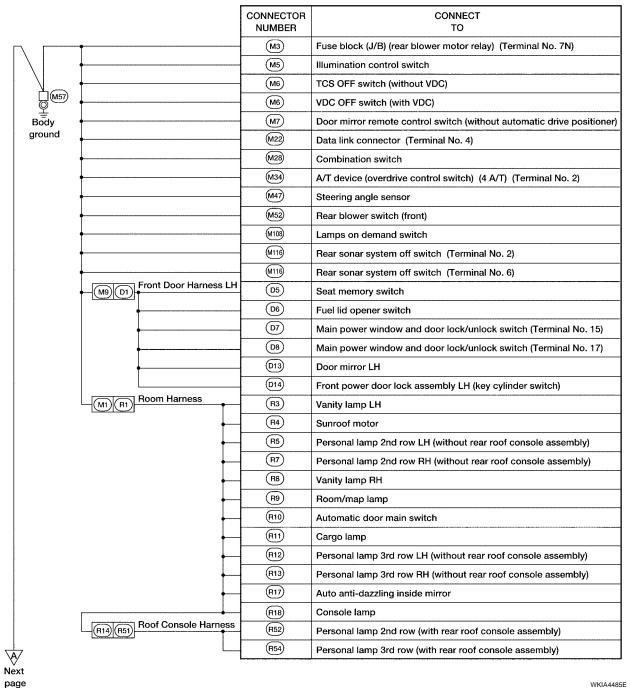
Revision: July 2006 PG-29 2006 Quest

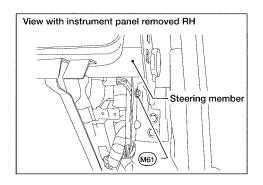
GROUND CIRCUIT PFP:24080

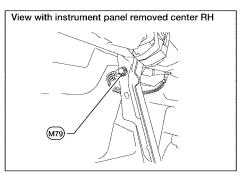
Ground Distribution MAIN HARNESS











Preceding page	CONNECTOR NUMBER	CONNECT TO
T / T	M14)	Pedal adjusting control unit (Terminal No. 1)
	M19	BCM (body control module) (Terminal No. 52)
	(M21)	NATS antenna amplifier
Body ground	(M22)	Data link connector (Terminal No. 5)
Body ground	(M34)	A/T device (shift lock and detent switch) (Terminal No. 6)
	(M35)	Air bag diagnosis sensor unit (Terminal No. 2)
	(M42)	Automatic drive positioner control unit (Terminal No. 48)
	(M49)	Front air control (Terminal No. 1)
	(M55)	Hazard switch
	(M59)	Glove box lamp
Power socket	(M122)	Variable blower control (Terminal No. 4)
(M56) (M201) sub-harness	(M202)	Front power socket-1 (console)

		CONNECTOR NUMBER	CONNECT TO
	<u>†</u>	(M7)	Door mirror remote control switch (with automatic drive positioner)
		(M23)	Combination meter (Terminal No. 32)
1		(M33)	Front power socket-2 (console side)
□ M79 □ Body ground		(M42)	Automatic drive positioner control unit (Terminal No. 40)
Body ground		M93)	Display unit (Terminal No. 6) (with monochrome display)
		(M93)	Display unit (Terminal No. 1) (with color display)
		M94)	Display control unit (Terminal No. 3) (with color display)
		(M98)	AV switch
	Front door	(M113)	BOSE [®] speaker amp.
	M75 D101 harness RH	(D105)	Power window and door lock/unlock switch RH
		(D113)	Door mirror RH

WKIA4486E

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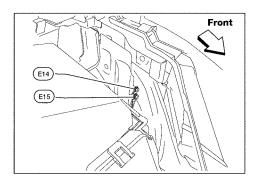
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ENGINE ROOM HARNESS



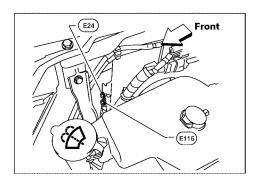
CONNECTOR	CONNECT	
NUMBER	TO	
Crash zone sensor (shield wire)		



	CONNECTOR NUMBER	CONNECT TO
	E11)	Front combination lamp LH (turn signal)
	E12	Front combination lamp RH (headlamp low)
	E13	Front combination lamp RH (headlamp high)
Body ground	E21	Brake fluid level switch
Body ground	E23	Front wiper motor
,	 E43	Cornering lamp LH
•	E44)	Front combination lamp LH (headlamp low)
	E45)	Front combination lamp LH (headlamp high) (without DTRL)
	 E101	Front fog lamp RH
	E102	Front fog lamp LH
	E103	Daytime light control unit (Terminal No. 9)
	E148)	Daytime light relay
	 (H-2)	Front blower motor relay
	 H-2	Front blower motor relay

B/ Next page

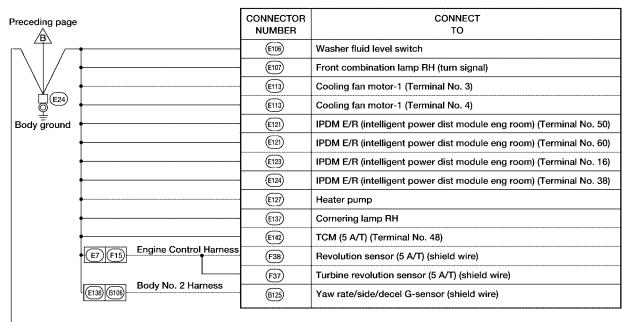
WKIA4487E



6

Next page

Body ground



CONNECTOR CONNECT
NUMBER TO

Generator

WKIA5655E

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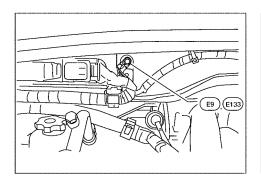
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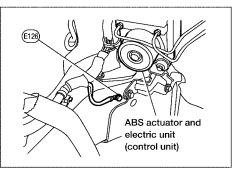
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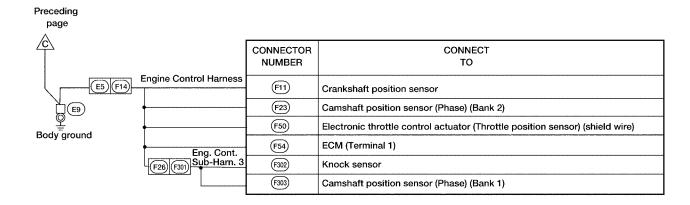
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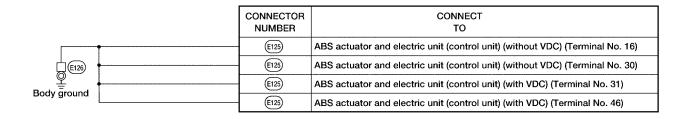
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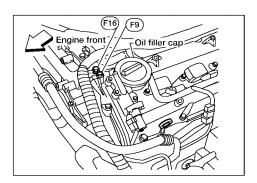


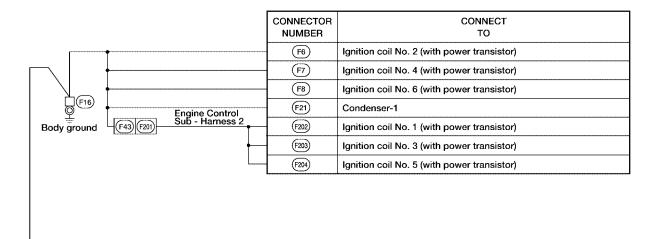
		CONNECTOR NUMBER	CONNECT TO
	E26 M91 Main Harness	M34)	A/T device (5 A/T) (Terminal No. 2)
E133		E16	ECM (Terminal 115)
Body ground	Engine Control Harness	E16	ECM (Terminal 116)
		E143	TCM (4 A/T) (Terminal No. 25)
		E143	TCM (4 A/T) (Terminal No. 48)
		(F29)	Park neutral position (PNP) switch (5 A/T)

WKIA4489E

ENGINE CONTROL HARNESS

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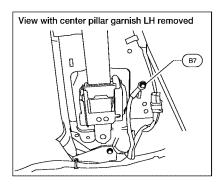
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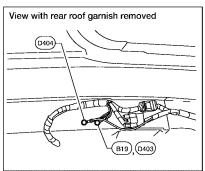
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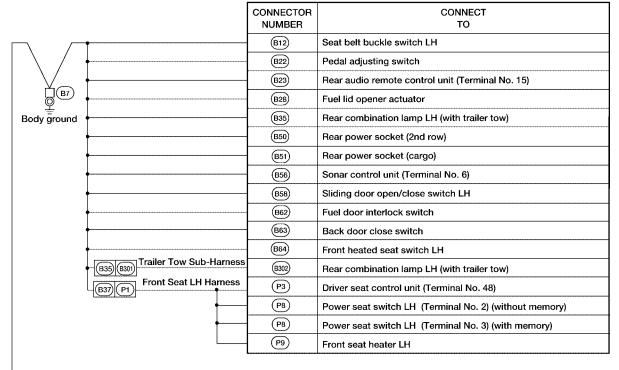
WKIA3431E

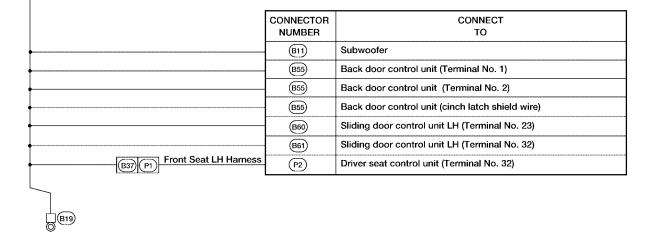
BODY HARNESS

Body ground



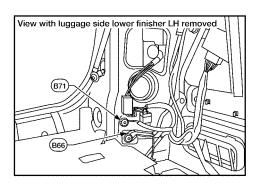




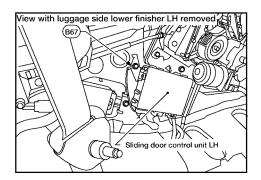


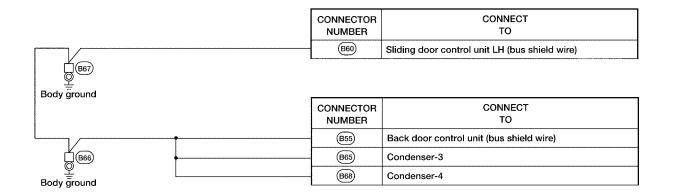
WKIA5656E

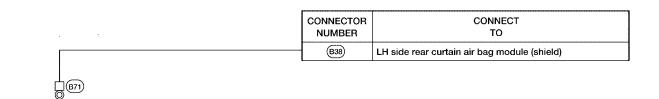
GROUND CIRCUIT



Body $\overline{\overline{g}}$ round







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Revision: July 2006 PG-37 2006 Quest

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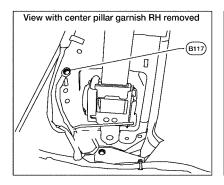
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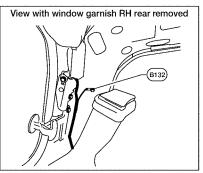
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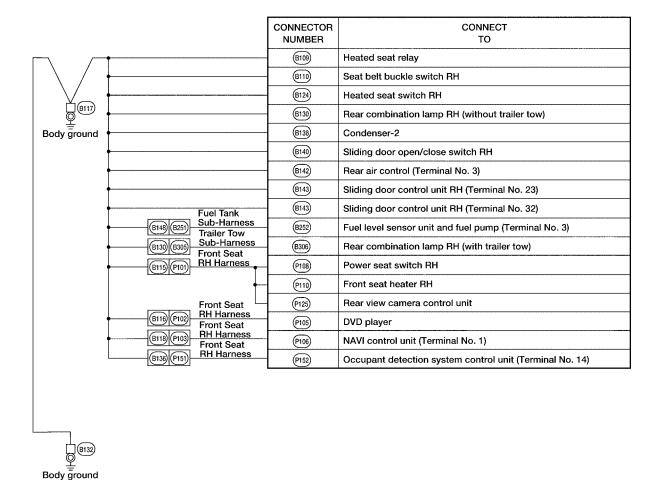
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GROUND CIRCUIT

BODY NO. 2 HARNESS



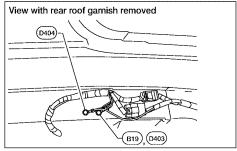


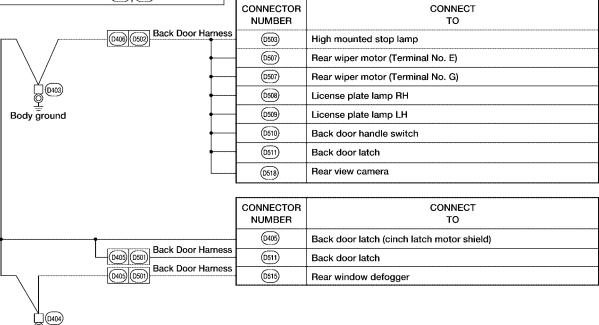


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GROUND CIRCUIT

BACK DOOR NO. 2 HARNESS





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HARNESS PFP:24010

Harness Layout HOW TO READ HARNESS LAYOUT

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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 Rear Sonar Sensor Sub-harness
- Body No. 2 Harness and Fuel Tank Sub-harness

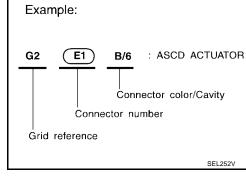
To use the grid reference

- 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.

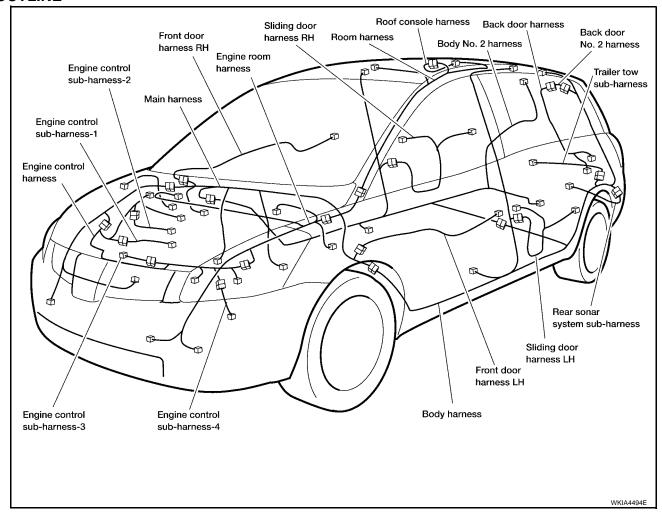
CONNECTOR SYMBOL

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

Connector type	Water p	roof type	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.	-	_	0				



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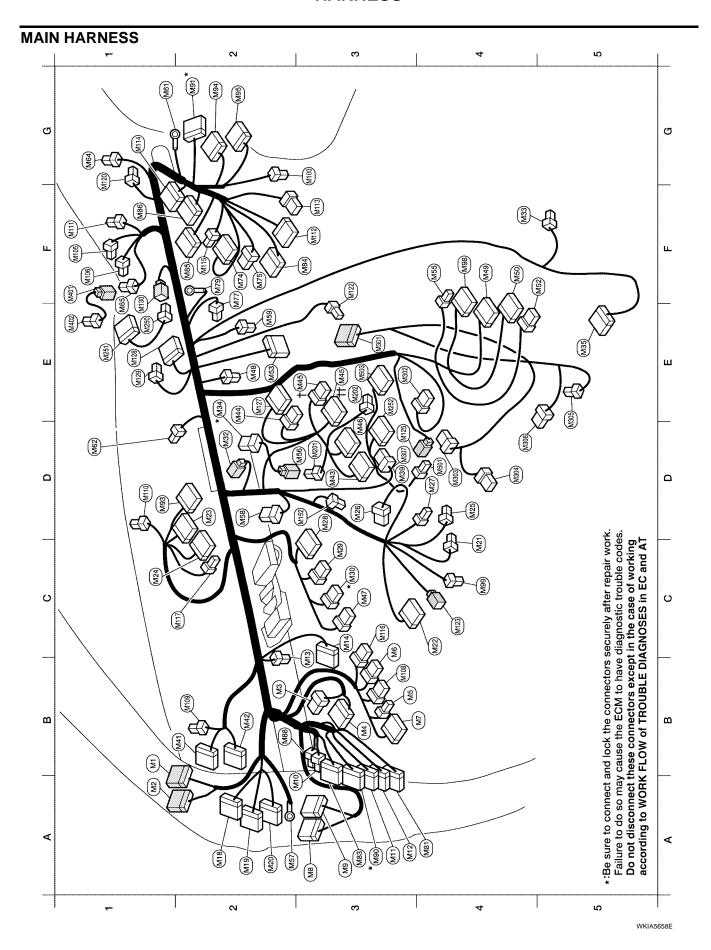
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(M128) BR/1 : Satellite radio tuner (with Sirius satellite radio tuner) (M129) V/1 : Satellite radio tuner (with XM satellite radio tuner)		D3 (Mg) B/2 : Resistor-1 Power Socket Sub-Harness	(MZB) W/2 : To (MSB) (MZB) : Front power socket-1 (console)	Iltie Tuner and pre-Wiring	radio tuner) W/16 : Pre-wiring for satellite	radio tuner (KSS) W/12 : Audio unit (with pre- wiring forr satellite	radio tuner) Conditioner Control Sub-Harness	(MSS) W/16 : To (MSS) (MSS) B/6 : Intake door motor	Mag) B/6 : Defrost door motor Man) B/6 · Mode door motor	W/2 B/6	9/8	E/O	(M40) W/4 : To (M65)	Mୟଥି B/4 : Optical sensor	Tire pressure warning *: Be sure to connect and lock the check connector connectors securely after repair work. To (MST) Failure to do so may cause the ECM to have	diagnostic frouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.
		D3 (Powe	D3 (E3 (Satelltie E1 (M250)	Ē	E3 (Air Ç	E3 (9 9			Optic	E	<u> </u>	: Be su conne Failur	diagn disco in the WOR
 5 6 6 6 1	: 10 (E42) : To (E25) : To (E26)	: Display unit : Display control unit			: Foot lamp RH : Passenger air bag	ger air bag	ğ	: Front tweeter LH : Center speaker (with BOSE)	: Front tweeter RH : BOSE speaker amp.	: BOSE speaker amp. : To (6104)		Hear solidr system Off switch	ss.	: Variable blower control	: Tire pressure warning *: check connector : To (MSD)	: Audio unit (with satellite radio tuner) : Satellite radio tuner
W/12 W/16 BR/24 BR/20	Y/4 W/24 BR/16	W/24 W/24	W/32	W/16 BR/2	BR/2 Y/2	0/5	BR/6	BR/2 BR/2	BR/2 B/24	GR/8 W/24	W/4	0 0 0 0 0	W/4	GR/4	W/2 W/2	W/12 W/16
	M90 (M98)	(M93)		(M98) (M98)	W106 W106	(M106)	WH08	M100 M1100 M1100	M1113	M114)		MILE (FIN	M S	M122	M123 M125	(M12)
A3 F2 F1	B2 (A3*(G2*(10 82	G2	7 2	8 E	Ε	83	B2 D1	E E	ភ ខ	3 2	3 8	<u>5</u> 5	F3	2 E	E2
: Air bag diagnosis sensor unit : Air mix door motor (driver)	positioner control unit : Automatic drive	control unit	: Audio unit : Audio unit (with	: Audio unit (except base audio system)	: Audio unit : Steering angle sensor	: To (M50) : Front air control	: Front air control	(front) To (Man)	: Hazard switch : To (M20)	: body ground : Intake door motor driver	: Glove box lamp	: Body ground : Front blower motor	: To (M359) (with Sirius satellite radio tuner)		. To 0100 . To 0100 . To 0101	: Front passenger air bag module (service replacement) : Body ground : To (820)
Y/28 B/6 W/32	W/16	W/10	8/M M/8		W/20 M/8	BR/2 B/26	B/18	W/16	W/4 W/2	B/6	BR/2	W/2	BR/1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	W/4 W/16 W/8	Y/4 W/16
M35 M39 M44)	M42	(M43)	M44) (M45)	#\$ (#	M47)	M488	M50 M50 M50	(M)	(MS) (MS)	W158	(M)	Me2 Me2	(M64)	M64	M75 (M75)	(M) (M) (M) (M)
E5 D3	B2	23	E E E	E3	3 8	E E E	4 H	E 2	4 S S	A2 D2	E E	5 5	2	<u> </u>	F2 F2	F2 A4
: To (R) : To (R2) with DVD : Fuse block (J/B) : Fuse block (J/B)	: Illumination control switch : TCS OFF switch	••			: To Bi 4 : To Bi	: Fuel lid opener relay : Pedal adjusting	control unit: BCM (body control	• • •		amplifier Data link connector	: Combination meter		: Ignition switch		: Combination switch (spiral cable): Combination switch (spiral cable)	: In-vehicle sensor : Front power socket- 2 (console side) : A/T device
W/16 W/16 W/8 W/16	W/3 GR/6	GR/6	W/16 BB/24	GR/12 W/4	W/16 GR/24	L/4 W/16	W/40	B/15	W/15	W/16	W/12	W/2	9/M	W/2 W/16	Y/6 GR/8	W/4 B/3 GR/8
B1 (M)	B3 (M5)	C3 Me	B4 (M7)		A3 M12 A3 M12	S3 S3	A2 M18	A2 M19	A2 M20 C4 M21		D2 (M23)				C3 (M3)	D2 (M32) F4 (M33) E2 *(M34)

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ENGINE ROOM HARNESS (LH VIEW) Engine Compartment က View with air cleaner case removed E43 Q Q E45 E102) 4 **Body ground** E15 E14 E15) Ш E14 ្ន IJ. ш For detailed ground distribution information, refer to "Ground Distribution". SE SE 7 **E**27 (E103) हाज Ū (E104) (E135) ш ш E148 (E) E18 82 Ω Ω E23 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. O O VIEW A Ω Ω ⋖ 4

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

LKIA0363E

*: 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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: Front combination lamp LH (headlamp high) : Front combination lamp LH (headlamp low) : Dropping resistor (with 4 A/T) : Front combination lamp LH : Daytime light control unit : Daytime light control unit Fusible link box (battery) Fusible link box (battery) : Brake fluid level switch : Front wheel sensor LH : Cornering lamp LH To (F15) (with 5 A/T) Crash zone sensor : Daytime light relay : Front wiper motor Front fog lamp LH : Ambient sensor : Body ground **Body ground** : Horn (low) : To (F32) To (F17) GR/10 GR/3 **GR/6** GR/2 GR/8 GR/6 GR/2 GR/2 G/10 GR/2 GR/2 BR/2 **BR/2** B/12 W/3 B/2 B/2 B/2 ۲/2 B/1 (E) (1) (E) E14 E18 (EZ3) (F43) (#<u>4</u> (FA) E104 E138 E27) (B) G2 F2 **F**2 **D**2 22 D2 ဗ္ဗ G2 G2 G3 $\mathbb{E} = \mathbb{E}$ Ш F2 E3 E3 Щ Ш

WKIA5660E

To (F66)

B/1

[E]

Passenger Compartment

: Accelerator pedal position (APP) sensor

€W 01 : W/24

: To M10 W/4

(EZ9)

: Fuse block (J/B) : Fuse block (J/B) W/8 B/2 , E30

: Fuse block (J/B) (E) E32

: ASCD brake switch : Stop lamp switch BR/2 * E38 W/4 F37

: Pedal adjusting motor : To (M88) (E42) Y/4 (E109) W/2

: Pedal adjusting motor : To (M83) (E110) W/3 (E134) W/12

: Parking brake switch : To (B40)

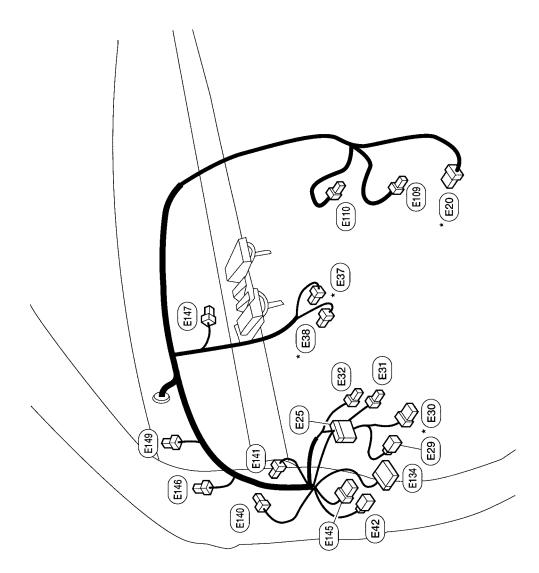
(E140) B/1 (E141) W/2 (E145) W/8 (E145) /2 (E147) /2

To (B41)

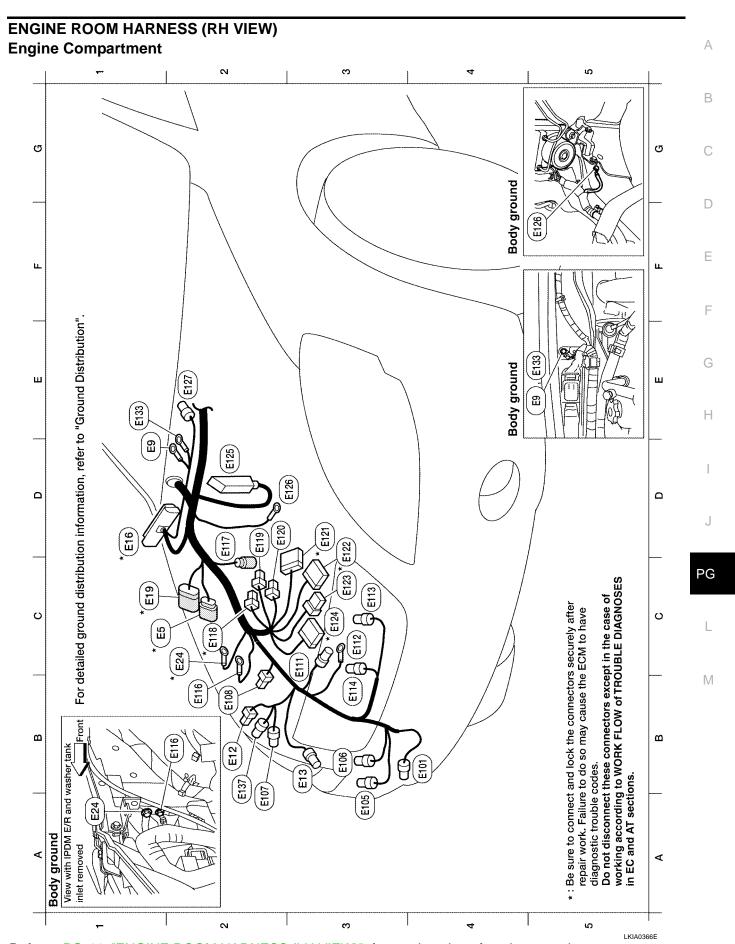
: Diode-3

: Diode-1 : Diode-4 *: 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.



WKIA4498E



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

Revision: July 2006 PG-47 2006 Quest

*: 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) : ABS actuator and electric unit (control unit) (without VDC) : ABS actuator and electric unit (control unit) (with VDC) : Cornering lamp RH **Body ground** Heater pump **Body ground** GR/16 GR/30 W/16 W/12 GR/2 9/M B/46 W/4 B/2 B/2 (E124) (E119) (E120) (E121) E122 E123 E125 E125 E137 E126 E127

WKIA4499E

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

Body ground (generator)Front wheel sensor RH

GR/2

B2 D2 C2 D2

23

2 2

8 8

23

22

B/4

: Cooling fan motor-1 : Cooling fan motor-2

E114

E116 E117 E118

Front combination lamp RH (headlamp low)
Front combination lamp RH (headlamp high)

Body ground

BR/2

E12

B3

(ii)

: To (F14)

Front combination lamp RH

: Horn (high)

B/1 B/3

(FI) (FI)

E107

A2 B2

: Washer fluid level switch

: Front fog lamp RH : Washer motor

B/2

(E101)

84

* (E24

GR/2 BR/2 GR/3

(F105)

A3 B3

Body ground

To (F33)

GR/9

2 2 8

ECM

B/32

 Refrigerant pressure sensor

Generator

E112

8 8 8 8

GR/4 GR/4

Passenger Compartment

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

diagnostic trouble codes.

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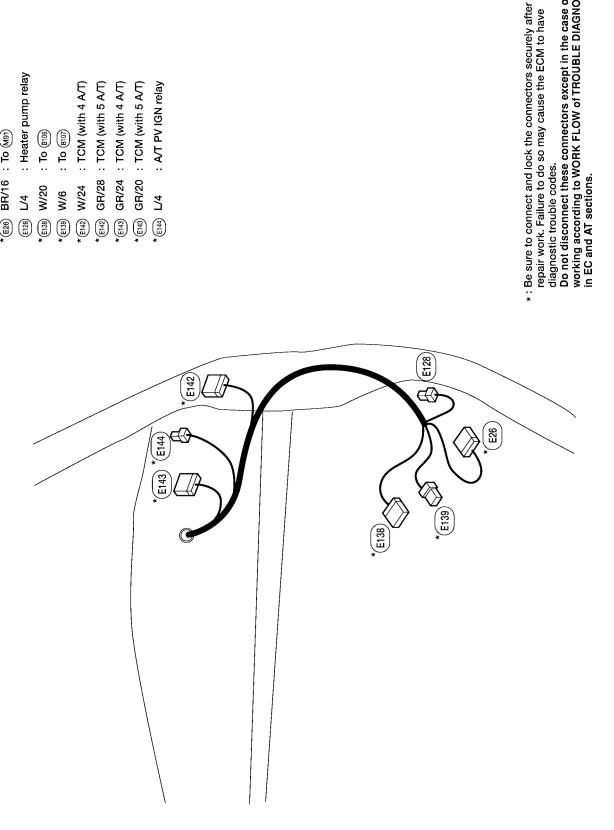
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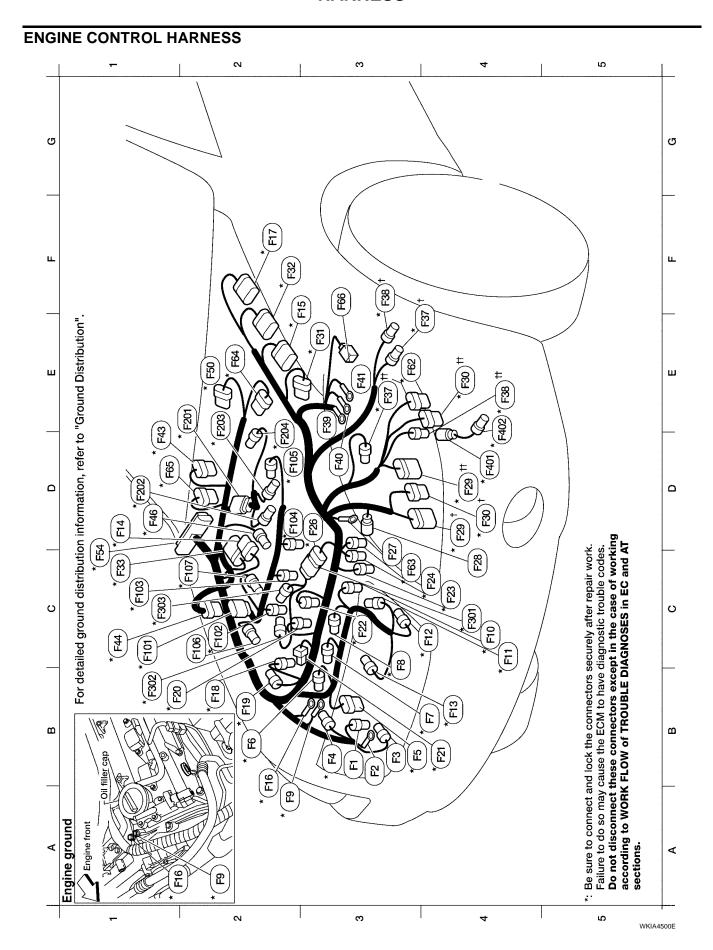
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: Heater pump relay : TCM (with 4 A/T) : TCM (with 5 A/T) : TCM (with 4 A/T) : TCM (with 5 A/T) . To (B106) : To (B107) GR/28 **GR/24** GR/20 W/20 W/24 * * (E143) * (E144) * E142 # (F128) * (F138) * E139

: A/T PV IGN relay



WKIA2966E



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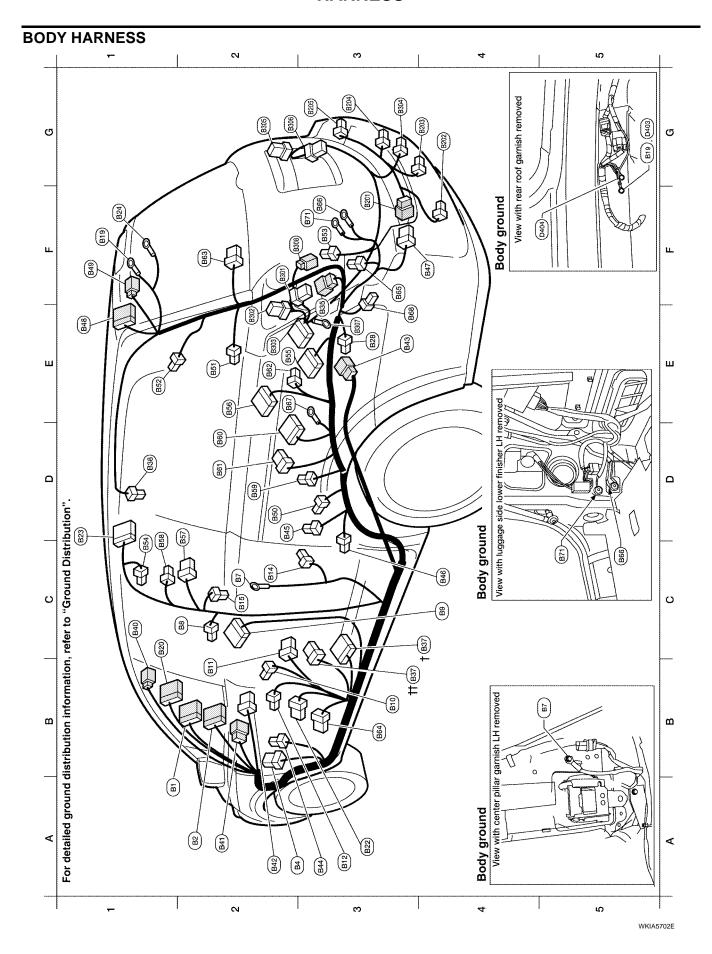
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12 12 12 12 13 13 14 15 15
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(Fig. 1972 : Generator (Fig. 1972) : Generator (Fig. 1974) : Intrake valve timing control solenoid valve (Bank 2) (Fig. 1974) : Ignition coil No. 2 (with power (Bank 2) (Fig. 1974) : Ignition coil No. 2 (with power (Bank 2) (Fig. 1974) : Ignition coil No. 2 (with power (Bank 2) (Fig. 1974) : Ignition coil No. 6 (with power (Bank 2) (Fig. 1974) : Engine ground (Fig. 1974) : Front electronic controlled engline (Fig. 1974) : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Fig. 1974 : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Fig. 1974 : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Fig. 1974 : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Fig. 1974 : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Fig. 1974 : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Fig. 1974 : Heated oxygen sensor 2 (Bank 2) (Fig. 1974) : Fig. 1974 : Fig. 197
(Fig. 1972) : Generator (Fig. 2) - : Generator (Fig. 3) - : Generator (Fig. 4) - : Generator (Fig. 6) - : Generator (Fig. 6) 2 : Intake valve timing control solenoid valve (Bank 2) (Fig. 6) 3 : Ignition coil No. 2 (with power transistor) (Fig. 6) 3 : Ignition coil No. 4 (with power transistor) (Fig. 6) 3 : Ignition coil No. 6 (with power transistor) (With 4A/T) (With 4A/T) (With 4A/T) (With 5A/T) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 2) (With 5A/T) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 2) (With 5A/T) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 1) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 1) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 1) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 1) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 1) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 1) (Fig. 6) 4 : Heated oxygen sensor 2 (Bank 1) (Fig. 7) (With 5A/T) (Fig. 7) (F
CHAN2 CHAN3 CHAN
2 3 3 4 5 7 7 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8



(E)	E1 (B48)	W/24	: To(p407)(with power back door)	Trailer Tow Sub-harness
A2 (B2) GR/24 : To(M12)	(E	7777) (%)	
A3 (B4) BR/6 : Rear window defogger relay	_	1	0 Charles	
	D2 (850)	B/3	: Rear power socket (2nd row)	E2 (8302) W/6 : Rear combination lamp LH
	E2 (B51)	B/3	: Rear power socket (cargo)	E2 (B33) W/10 : Trailer tow control unit
E/M/3	E (852)	W/2	: Rear power vent window motor LH	G3 (8304) GR/4 : Trailer
(B) Y/12	F3 (863)	GR/1	: To (8308)	G2 (836) W/6 : To (813)
	C3 (B54)	Y/2	: LH side front curtain air bag module	G2 (830) W/6 : Rear combination lamp RH
(B11) W/8	E3 (855)	W/26	: Back door control unit	E3 (807) : Body ground
(B12) W/3 :	E2 (856)	W/16	: Sonar control unit	F3 (830) GR/1 : To (853)
C2 (B14) Y/2 : Front LH seat belt pre-tensioner C2 (B15) Y/2 : LH side air bag (satellite) sensor	C2 (B57)	8/M	: Sliding door contact switch LH (pillar)	
F1 (B19) : Body ground	2 (B58)	W/4	: Sliding door open/close switch LH	
C1 (B20) W/16 : To (M81)	D2 (B59)	W/4	: Sliding door motor assembly LH	
A3 (822) W/6 : Pedal adjusting switch			(sliding door encoder	
C1 (B23) W/16 : Rear audio remote control unit	D2 (860)	W/24	: Sliding door control unit LH	
F1 (B24) : Body ground	D2 (B61)	8/M	: Sliding door control unit LH	
E3 (B28) W/4 : Fuel lid opener actuator	E2 (B62)	B/2	: Fuel door interlock switch	
F2 (835) W/6 : Rear combination lamp LH (without	F2 (B63)	GR/6	: Back door close switch	
	B3 (B64)	BR/6	: Front heated seat switch LH	
F2 (B35) W/6 : To(D301) (with trailer tow)	F3 (B65)	W/2	: Condenser-3	
C4 (B37) [†] W/16 : To(P1)(with memory seat)	F3 (Bee)		: Body ground	
B3 (B37) ^{††} W/10 : To(P1)(w/o memory seat)	E2 (B67)		: Body ground	
D1 (838) Y/2 : LH side rear curtain air bag module	E4 868	W/2	: Condenser-4	
C1 (B40) W/2 : To (E141)	F3 (B71)		: Body ground	
A2 (B41) W/8 : To (E145)	C			
A2 (B42) W/6 : Fuse block (J/B)	Kear sol	nar se	Rear sonar sensor sub-narness	
F3 (843) W/10 : To(811)	F3 (B201)	GR/6	: To (B47)	
B44 W/2	G4 (B202)	B/3	: Rear sonar sensor LH outer	
- C/W	G4 (B203)	B/3	: Rear sonar sensor LH inner	
B46 W/3	G3 (B204)	B/3	: Rear sonar sensor RH inner	
(B47) GR/6 :	G3 (8205)	B/3	: Rear sonar sensor RH outer	
E1 (848) W/12 : To (540) (without power back door)				

WKIA5717E

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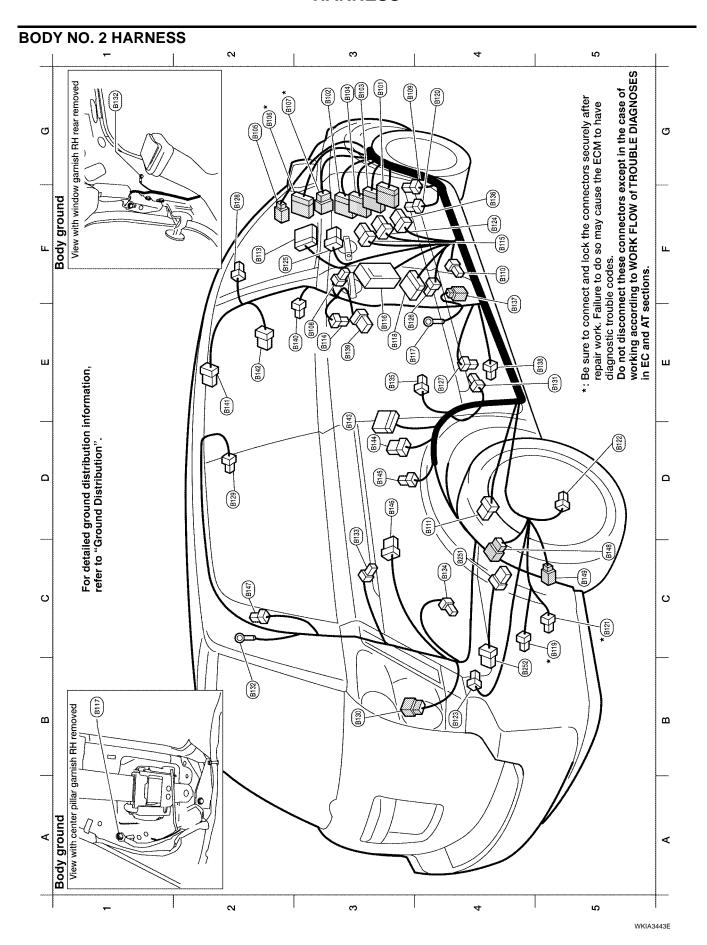
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C3 (913) W/4 : Rear b C4 (913) W/2 : Rear b C4 (913) W/3 : Sliding G4 (913) W/3 : Sliding G4 (913) W/3 : To (915) G4 (913) W/3 : Sliding G4 (913) W/3 : Sliding G4 (913) W/3 : Sliding E5 (914) B/5 : Rear a E3 (914) W/4 : Sliding E2 (914) W/4 : Sliding D3 (914) W/8 : To (914) B4 (925) GR/6 : To (914) B4 (925) GR/5 : Fuel le botule
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dule out
W/16 : To (M88) BR/24 : To (M88) BR/20 : To (M88) W/24 : To (M18) W/24 : To (M18) W/20 : To (E18) W/20 : To (E18) W/20 : To (E18) W/20 : To (E18) W/3 : Front door switch RH L/4 : Heated seat relay W/3 : Front door switch RH L/4 : Heated seat relay W/3 : Seat belt buckle switch RH W/10 : To (B43) W/12 : Air bag diagnosis sensor unit W/12 : Air bag diagnosis sensor unit W/2 : RH side air bag (satellite) sensor W/6 : To (P18) SMJ : To (P18) W/2 : Front RH seat belt pre-tensioner W/2 : Front RH side front curtain air bag module W/2 : Rear combination lamp RH (without trailer tow) W/6 : To (B13) (with trailer tow) W/6 : To (B13) (with trailer tow)
G3 G

WKIA4504E

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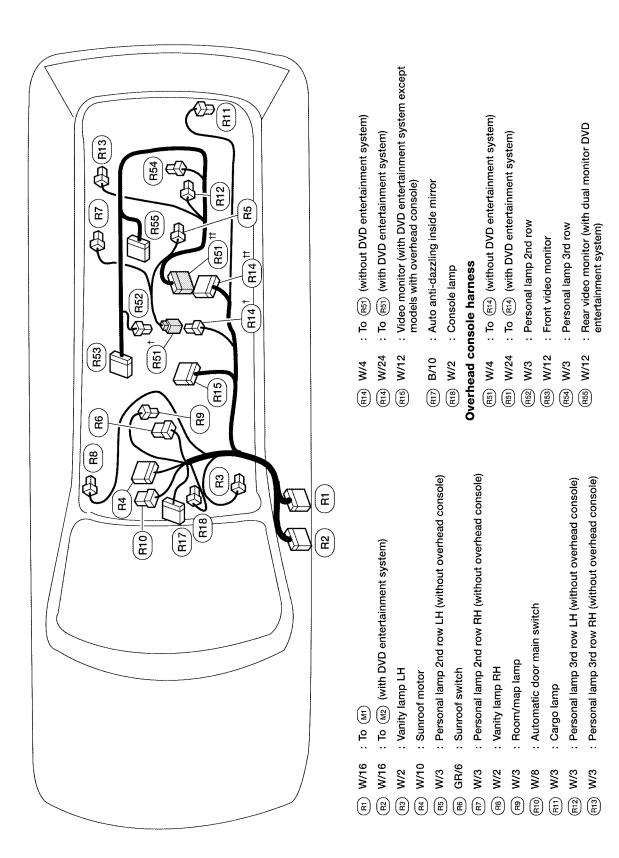
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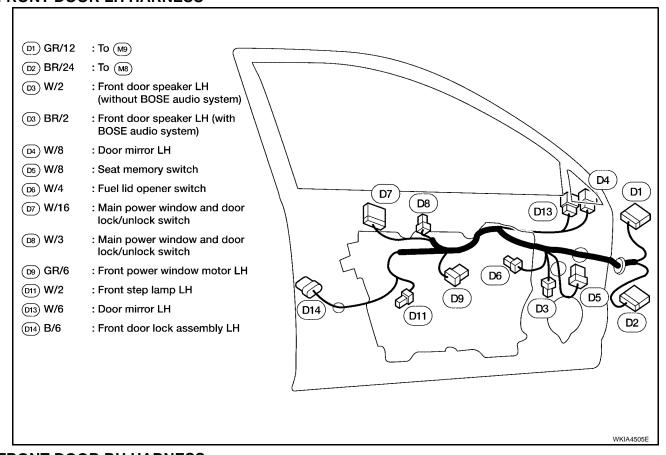
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ROOM LAMP HARNESS

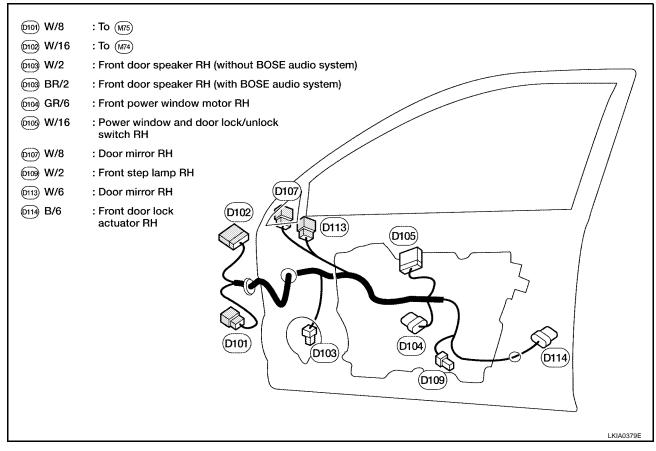


WKIA3445E

FRONT DOOR LH HARNESS



FRONT DOOR RH HARNESS



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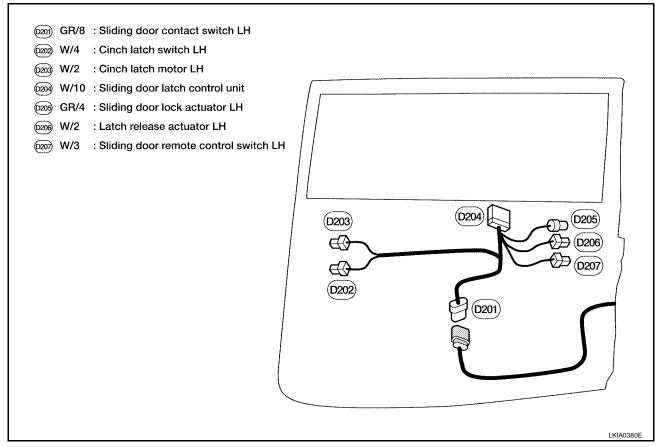
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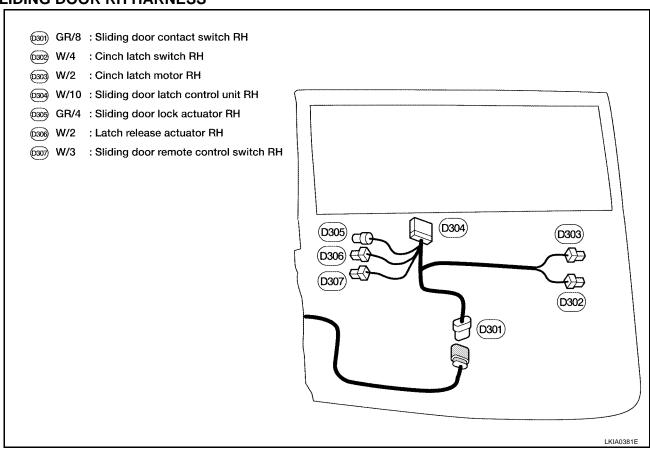
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SLIDING DOOR LH HARNESS

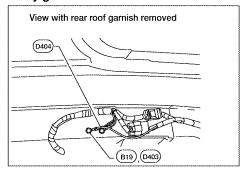


SLIDING DOOR RH HARNESS



BACK DOOR HARNESS

Body ground



For detailed ground distribution information, refer to "Ground Distribution".

Back door No.2 harness

(without power back door)

(With power back door)

(D402) W/6 : To (B49)

0403 - : Body ground

D404 - : Body ground

(D405) W/6 : To (D501)

©406 W/12: To ©502 (without power back door)

(D406) W/24: To (D502) (with power back door)

Back door harness

(D501) W/6 : To (D405)

(D502) W/12: To (D406) (without power back door)

0502 W/24: To (0406) (with power back door)

©503 W/2 : High mounted stop lamp

©504) B/1 : Rear window defogger (+)

0505 BR/2 : Pinch strip RH

(D506) BR/2: Rear tweeter RH

(D507) W/4 : Rear wiper motor

(D508) BR/2 : License lamp RH

(D509) BR/2 : License lamp LH

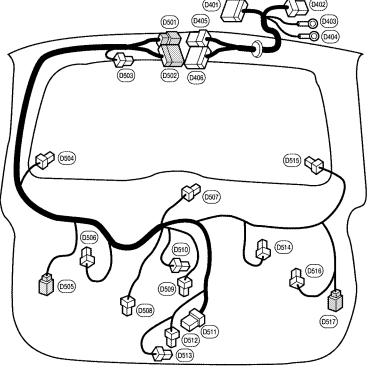
©510) GR/2: Back door handle switch

©511) W/8 : Back door latch

0512 W/3 : Back door switch

0513 W/4 : Back door lock actuator

D514) BR/2: Back door warning chime



(D515) B/1 : Rear window defogger (-)

(D516) BR/2 : Rear tweeter LH

(D517) BR/2 : Pinch strip LH

318) W/4 : Rear view camera

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Wiring Diagram Codes (Cell Codes)

EKS00FP3

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
A/C,M	MTC	Manual 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
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASC/BS	EC	ASCD Brake Switch
ASC/SW	EC	ASCD Steering Switch
ASCBOF	EC	ASCD Brake Switch
ASCIND	EC	ASCD Indicator
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
AUT/DP	SE	Automatic Drive Positioner
AUTO/L	LT	Auto Light Control
B/CLOS	BL	Back Door Auto Closure System
BA/FTS	AT	A/T Fluid Temperature Sensor and TCM Power Supply
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
CORNER	LT	Cornering Lamps
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Headlamp - With Daytime Light System
DVD	AV	DVD Entertainment System
ECM/PW	EC	ECM Power Supply for Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
EGR/TS	EC	EGR Temperature Sensor
EGRC1	EC	EGR Function
EGVC/V	EC	EGR Volume Control Valve
EMNT	EC	Engine Mount
ENGSS	AT	Engine Speed Signal
ETC1	EC	Electric Throttle Control Function

ETC2	EC	Throttle Control Motor Relay
ETC3	EC	Throttle Control Motor
F/FOG	LT	Front Fog Lamp
F/LID	BL	Fuel Lid Opener
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
HSEAT	SE	Heated Seat
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
INT/L	LT	Room/Map, Vanity, Cargo, Personal, Foot, Step, Puddle and Running Board Lamps
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
LPSV	AT	Line Pressure Solenoid Valve
LVRSW	AT	A/T Device Lever Switch
MAFS	EC	Mass Air Flow Sensor
MAIN	AT	Main Power Supply and Ground Circuit
MAIN	EC	Main Power Supply and Ground Circuit
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges
MIL/DL	EC	Malfunction Indicator Lamp
MIRROR	GW	Door Mirror
NATS	BL	Nissan Anti-Theft System
NAVI	AV	Navigation System
NONDTC	AT	Non-detectable Items
O2H2B1	EC	Rear Heated Oxygen Sensor 2 Heater Bank 1
O2H2B2	EC	Rear Heated Oxygen Sensor 2 Heater Bank 2
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 1
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 2
OVRCSV	AT	Overrun Clutch Solenoid Valve
P/SCKT	WW	Power Socket
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
PEDAL	AP	Adjustable Pedal System
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

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POS	EC	Crankshaft Position Sensor (POS)
POWER	PG	Power Supply Routing
PRE/SE	EC	EVAP Control System Pressure Sensor
PS/SEN	EC	Power Steering Pressure Sensor
PWR/IN	AT	TCM Ignition Power
R/VIEW	DI	Rear View Camera
RP/SEN	EC	Refrigerant Pressure Sensor
S/CLOS	BL	Slide Door Auto Closure System
SEAT	SE	Power Seat
SEN/PW	EC	Sensor Power Supply
SFTFNC	AT	Unusual Shifting
SHIFT	AT	A/T Shift Lock System
SONAR	DI	Rear Sonar 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
T/TOW	LT	Trailer Tow
T/WARN	WT	Low Tire Pressure Warning System
TAIL/L	LT	Parking, License and Tail Lamps
TCCSIG	AT	A/T TCC Signal (Lock Up)
TCV	AT	Torque Converter Clutch Solenoid Valve
TPS	AT	Throttle Position Sensor
TPS1	EC	Throttle Position Sensor
TPS2	EC	Throttle Position Sensor
TPS3	EC	Throttle Position Sensor
TRNSCV	BL	HOMELINK® Universal Transceiver
TRSA/T	AT	Turbine Revolution Sensor
TRSC	AT	Turbine Revolution Sensor
TURN	LT	Turn Signal and Hazard Warning Lamps
VDC	BRC	Vehicle Dynamic Control System
VEHSEC	BL	Vehicle Security (Theft Warning) 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
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)
VSSATC	AT	Revolution Sensor
VSSMTR	AT	Vehicle Speed Sensor Meter
W/ANT	AV	Audio Antenna
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIP/R	WW	Rear Wiper and Washer
WIPER	WW	Front Wiper and Washer

ELECTRICAL UNITS LOCATION

ELECTRICAL UNITS LOCATION

PFP:25230

Electrical Units Location ENGINE COMPARTMENT

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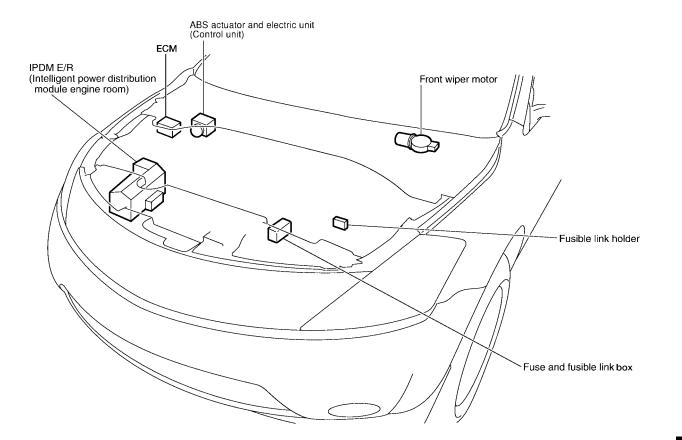
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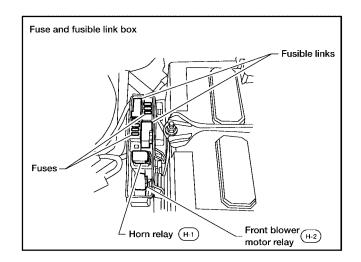
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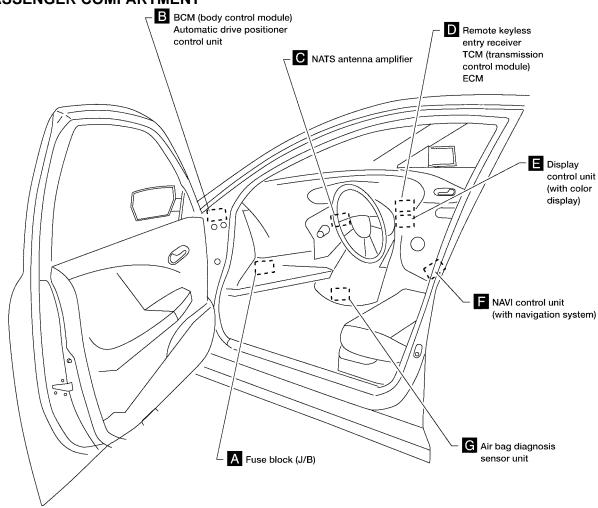


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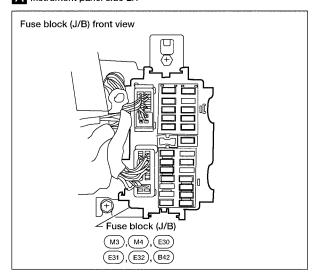


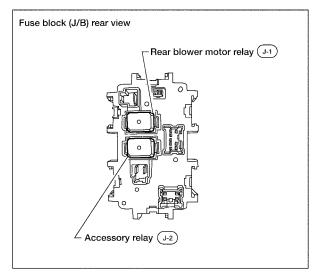
ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT



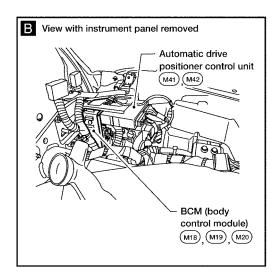
A Instrument panel side LH

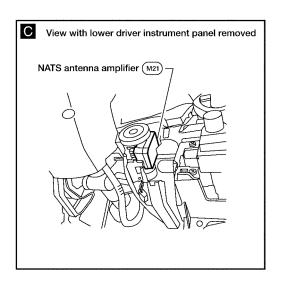


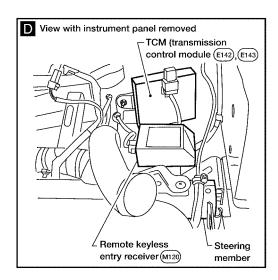


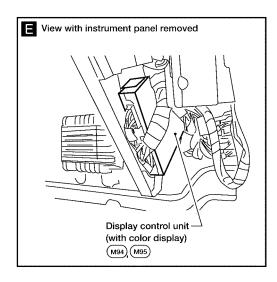
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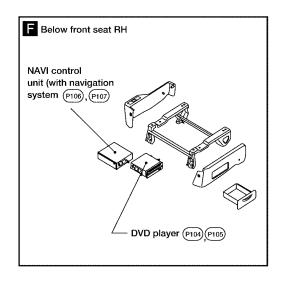
ELECTRICAL UNITS LOCATION

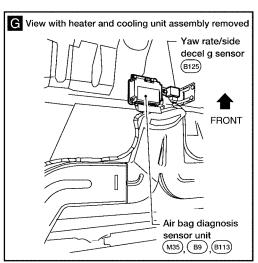












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HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:B4341

Description HARNESS CONNECTOR (TAB-LOCKING TYPE)

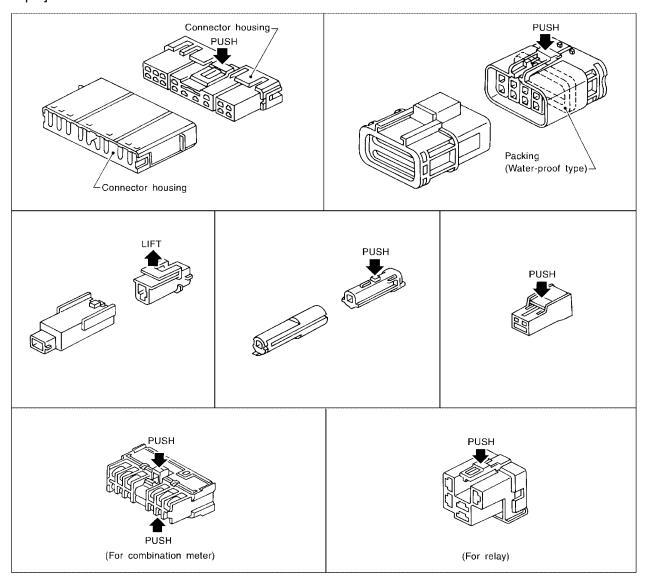
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- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

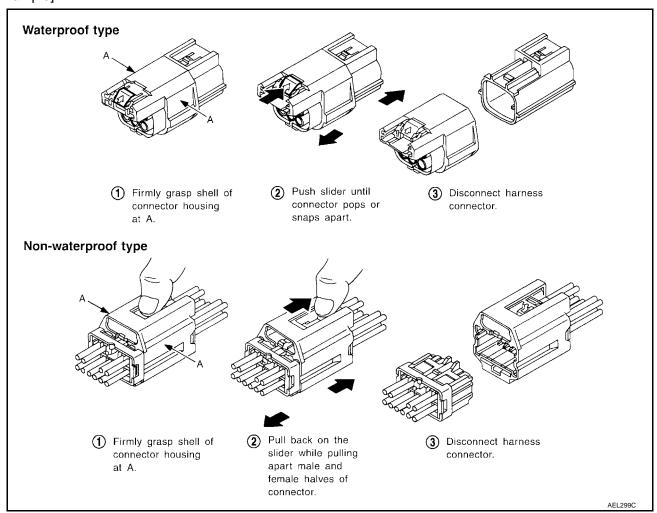
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



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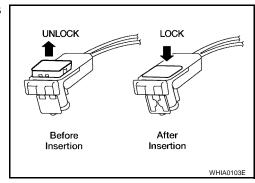
HARNESS CONNECTOR

HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

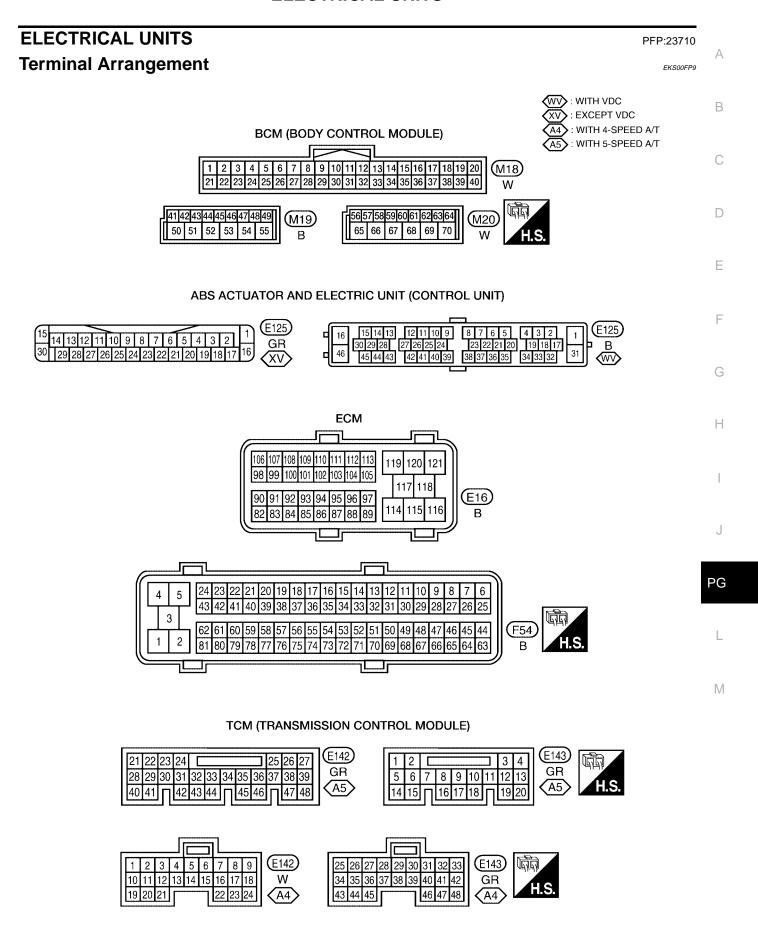
- SRS direct-connect type harness connectors are used on certain SRS components such as air bag modules and seat belt pre-tensioners.
- Always pull up to release black locking tab prior to removing connector from SRS component.
- Always push down to lock black locking tab after installing connector to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



WKIA3446E

STANDARDIZED RELAY

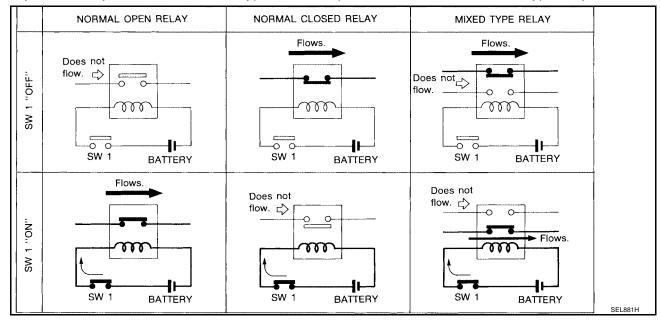
STANDARDIZED RELAY

PFP:25230

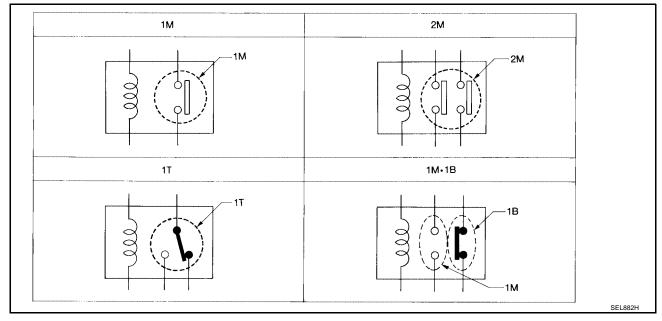
DescriptionNORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

EKS00FPA

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 4	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	3	(1) (5) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	3 5 2 1	BLUE

The arrangement of terminal numbers on the actual relays may differ from those shown above. $\label{eq:control}$

WKIA0253E

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SUPER MULTIPLE JUNCTION (SMJ)

SUPER MULTIPLE JUNCTION (SMJ)

PFP:84341

Terminal Arrangement

EKS00FPB

FRONT SEAT HARNESS RH

(P102)

24A 23A 22A 21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A 10A 9A	8A	7 A	6A	5A	4A	3A	2A	1A
24B 23B 22B 21B 20B 19B 18B 17B 16B 15B 14B 13B 12B 11B 10B 9B	8B	7B	6B	5B	4B	3B	2B	1B



(B116)

24B 23B 22B 21B 20B 19B 18B 17B 16B 15B 14B 13B 12B 11B 10B 9B	8B	7B	6B	5B	4B	3B	2B	1B
24A 23A 22A 21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A 10A 9A V	8A	7A	6A	5A	4A	ЗА	2A	1A

BODY NO.2 HARNESS

FUSE BLOCK-JUNCTION BOX (J/B) PFP:24350 **Terminal Arrangement** EKS00FPC To main harness В C D Е Н ξ 15A 13 14 16 18 20 21 22 10A 10A 10A 15A 15A 10A 15A 15A Rear blower motor relay (J-1) Accessory relay (J-2) TOP PG 듁 M 1S E32 (E31) (E30) 2R 1R To engine room harness

WKIA4511E

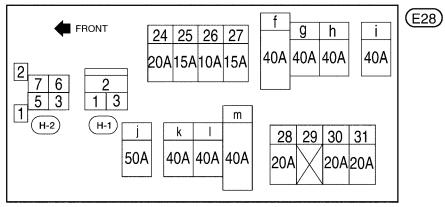
FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX

PFP:24381

Terminal Arrangement

EKS00FPD



24 - 31: FUSE

f - m: FUSIBLE LINK