SECTION SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

PRECAUTIONS

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

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Wiring Diagrams and Trouble Diagnosis

When you read wiring diagrams, refer to the following:

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

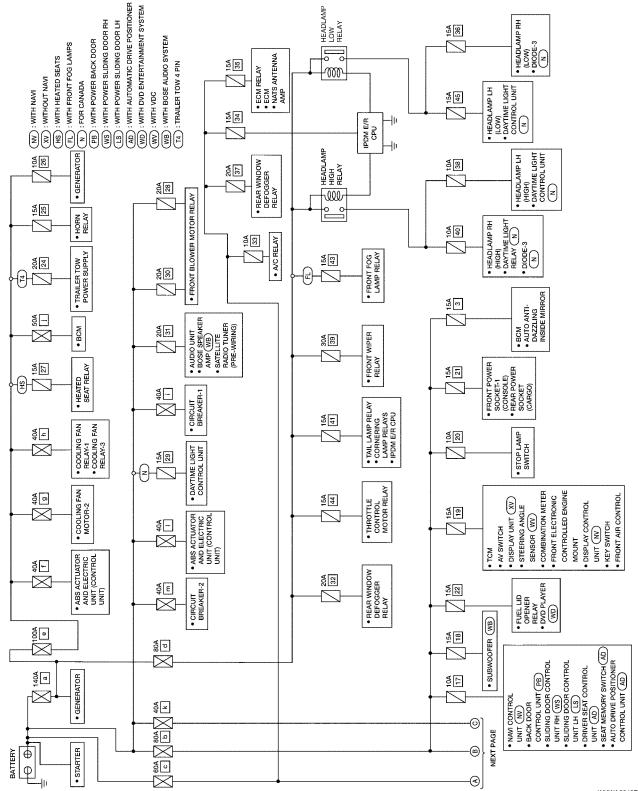
When you perform trouble diagnosis, refer to the following:

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

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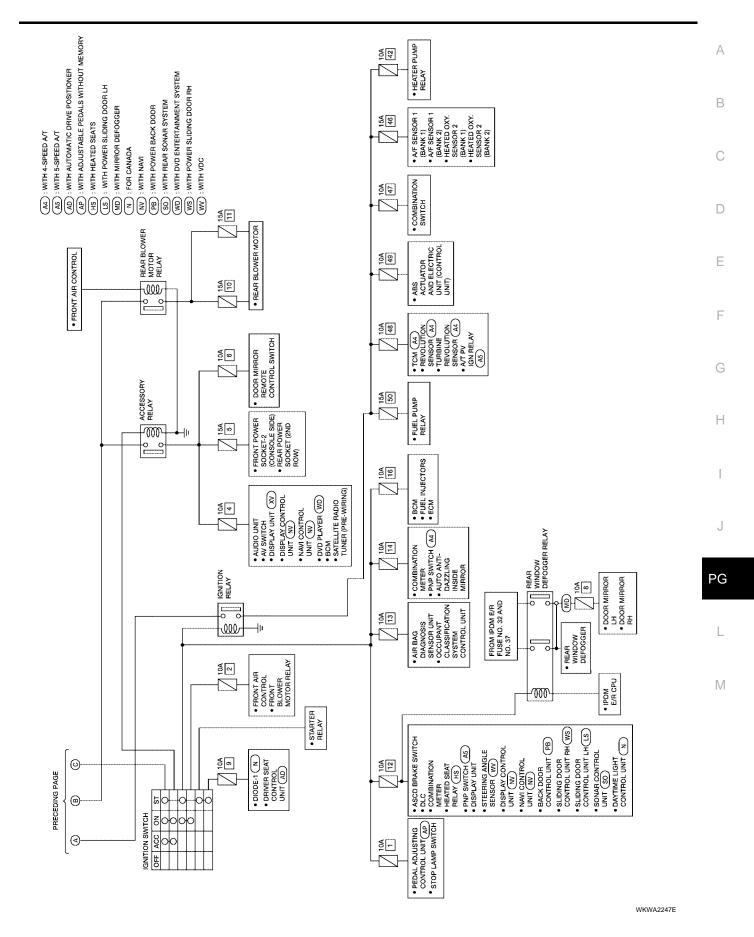
Schematic

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

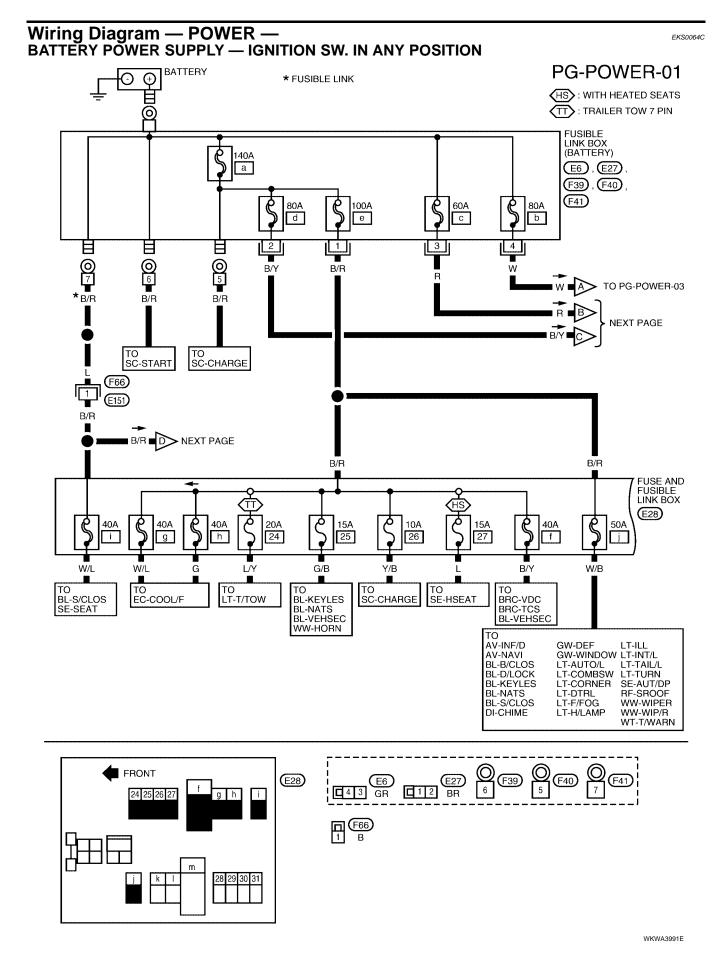


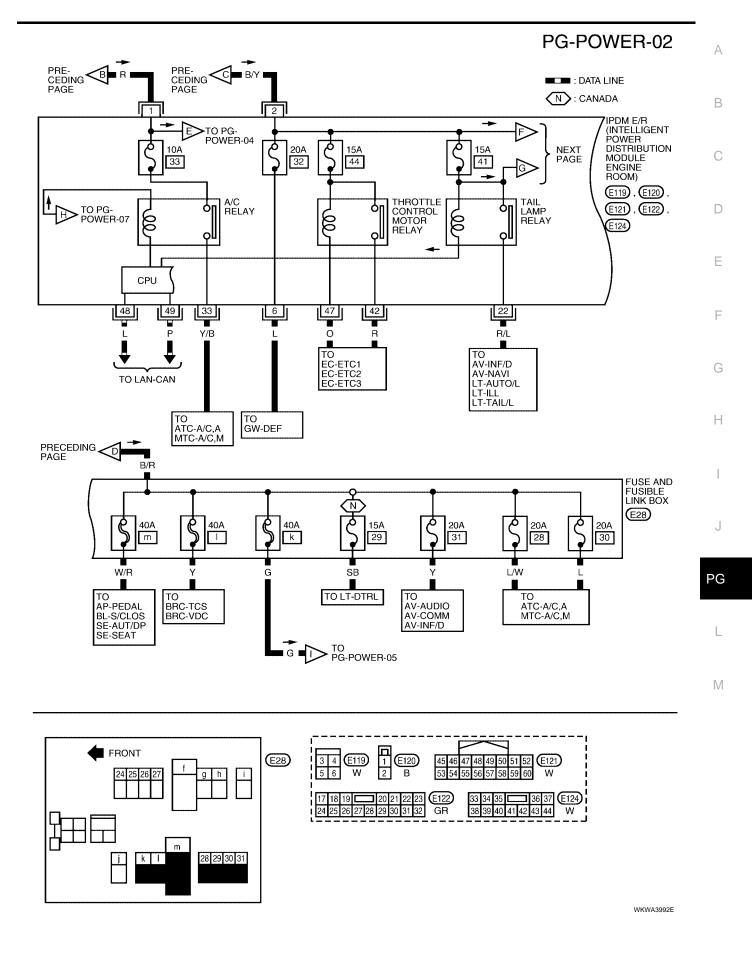
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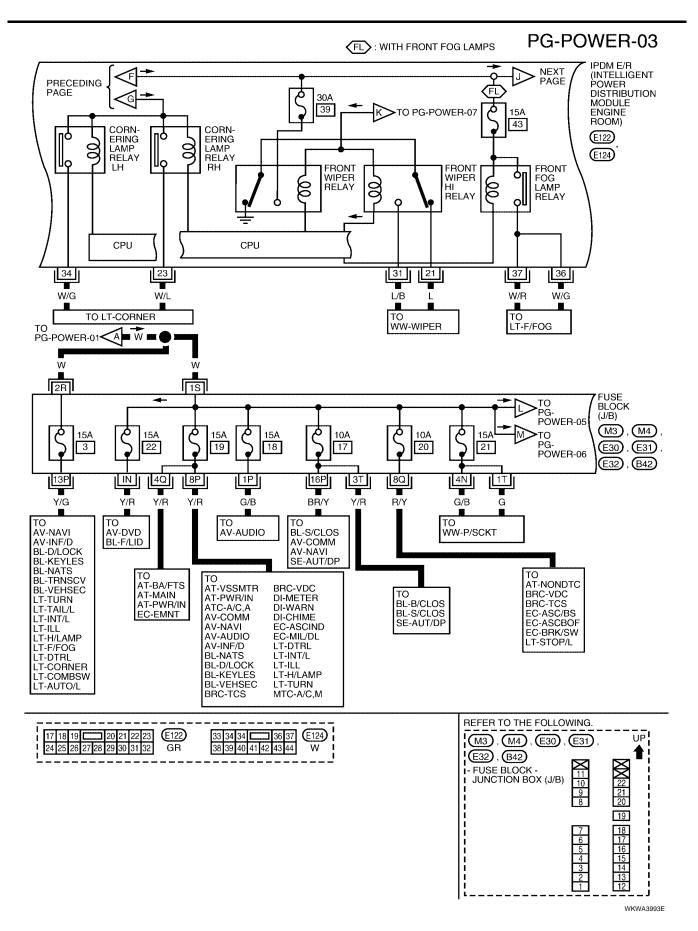
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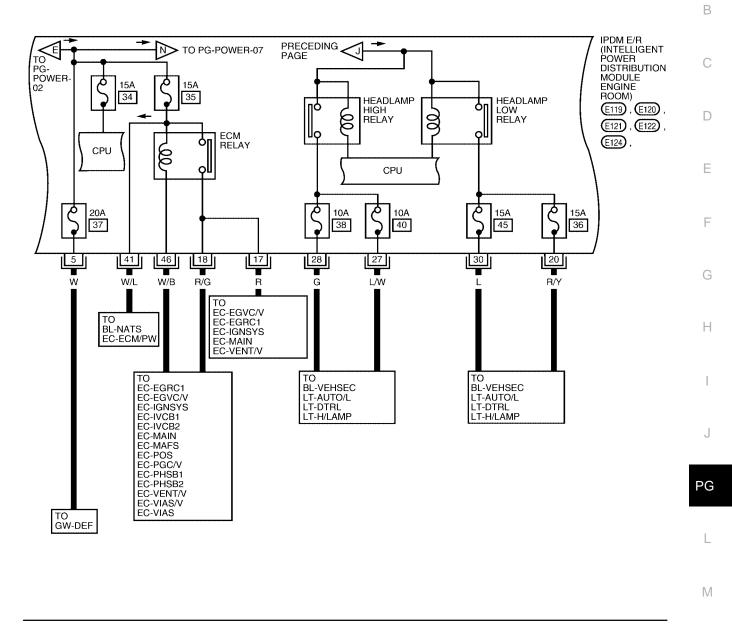


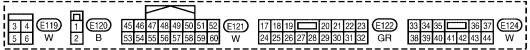




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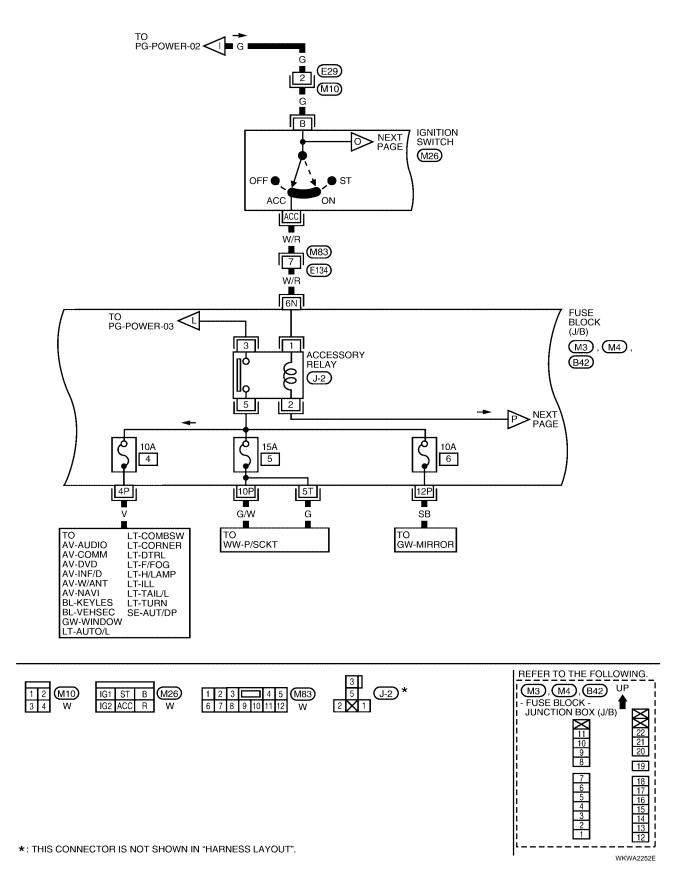




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ACCESSORY POWER SUPPLY - IGNITION SW. IN ACC OR ON

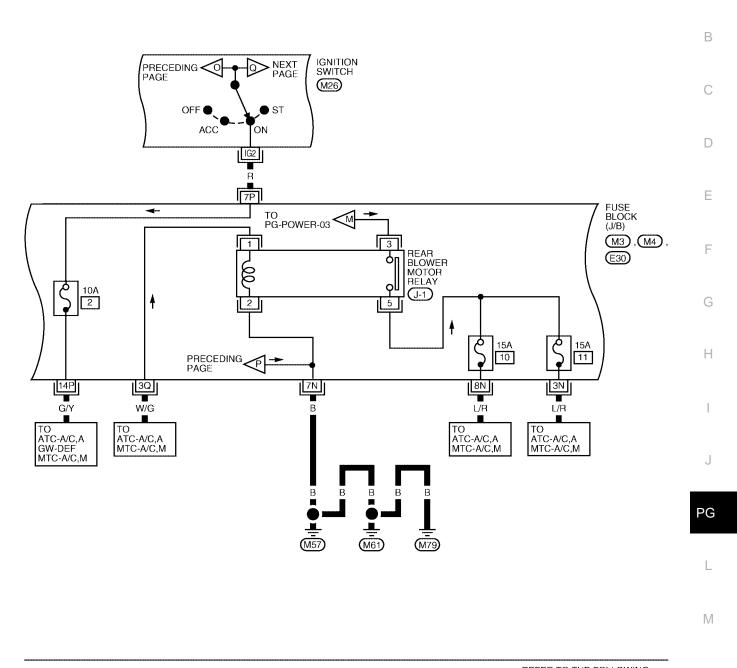
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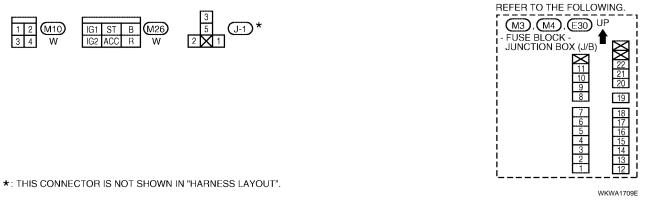


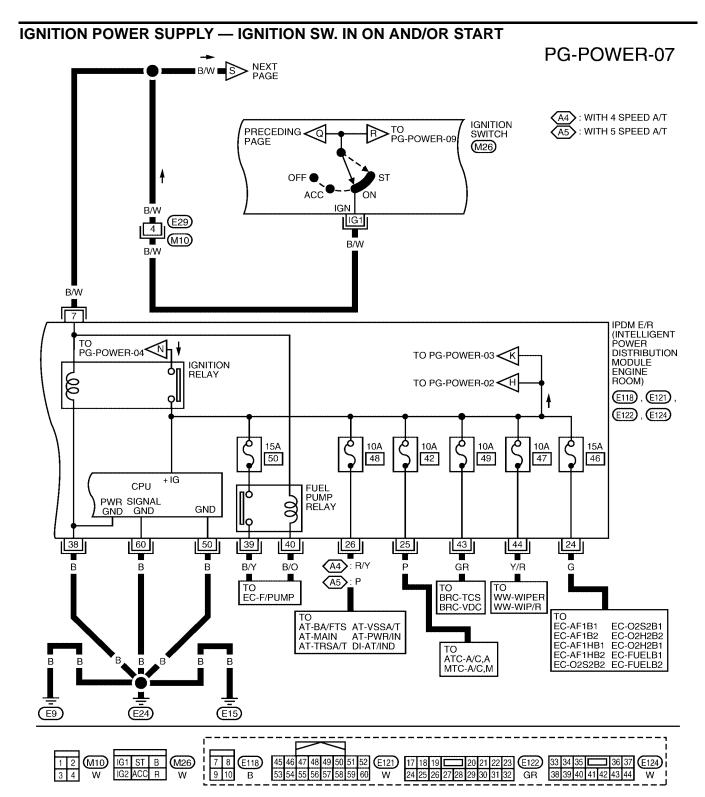
IGNITION POWER SUPPLY — IGNITION SW. IN ON

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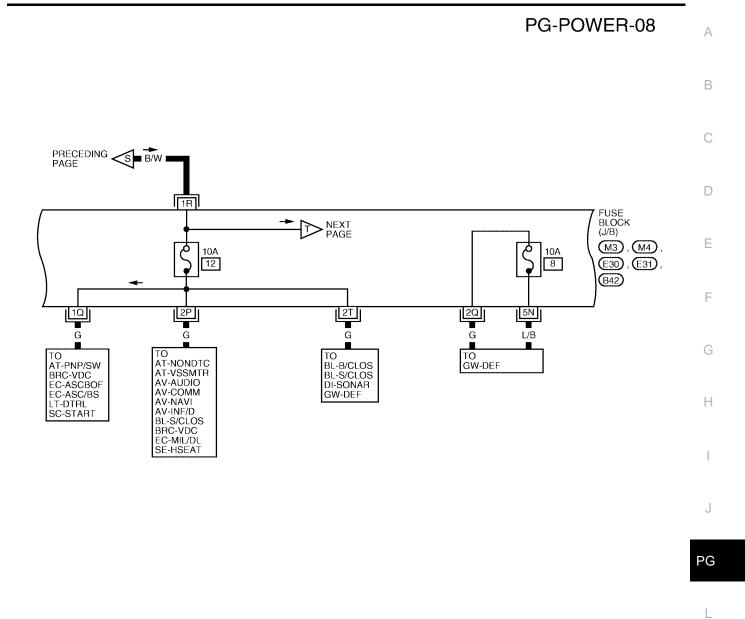
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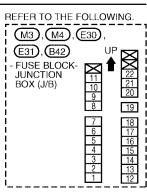






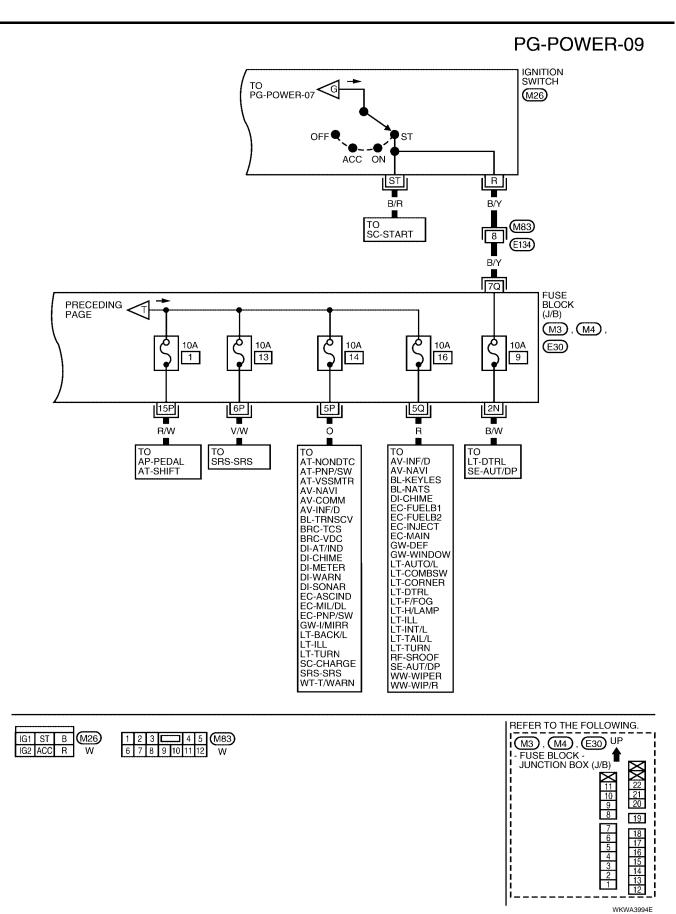
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IPI	DM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) PFP:284B7	А
Sy	stem Description EKS0064D	
•	IPDM E/R (Intelligent Power Distribution Module Engine Room) integrates the relay box and fuse block which were originally placed in engine compartment. It controls integrated relays via IPDM E/R control circuits.	В
•	IPDM E/R-integrated control circuits perform ON-OFF operation of relays, CAN communication control, oil pressure switch signal reception, etc.	С
•	It controls operation of each electrical component via ECM, BCM and CAN communication lines.	
	UTION: ne of the IPDM E/R integrated relays can be removed.	D
	STEMS CONTROLLED BY IPDM E/R	
	Lamp control	_
1.	 Using CAN communication lines, it receives signals from the BCM and controls the following lamps: Headlamps (Hi, Lo) 	E
	Parking lamps	F
	Tail and license lamps	
	Cornering lamps	
	Front fog lamps	G
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.	Η
4.	A/C compressor control Using CAN communication lines, it receives signals from the ECM and controls the A/C compressor (magnetic clutch).	
5.	Starter control Using CAN communication lines, it receives signals from the BCM and controls the starter relay.	J
6.	Cooling fan control Using CAN communication lines, it receives signals from the ECM and controls the cooling fan relays.	PG
7.	Horn control Using CAN communication lines, it receives signals from the BCM and controls the horn relay.	
CA	N COMMUNICATION LINE CONTROL	L
H-li	h CAN communication, by connecting each control unit using two communication lines (CAN L-line, CAN ne), it is possible to transmit a maximum amount of information with minimum wiring. Each control unit can assist and receive data, and reads necessary information only.	M
	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
Lleadlerer	• With the ignition switch ON, the headlamp (low) is ON.
Headlamp	• With the ignition switch OFF, the headlamp (low) is OFF.
Toil and parking lampa	• With the ignition switch ON, the tail and parking lamps are ON.
Tail and parking lamps	• With the ignition switch OFF, the tail and parking lamps are OFF.
	• With the ignition switch ON, the cooling fan HI operates.
Cooling fan	• 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

IPDM E/R STATUS CONTROL		
In order to save power, IPDM E/R s	witches status by itself based on e	ach operating condition.
1. CAN communication status		
 CAN communication is norm 	ally performed with other control u	nits.
 Individual unit control by IPD 	M E/R is normally performed.	
 When sleep request signal is 	s received from BCM, mode is swite	hed to sleep waiting status.
2. Sleep waiting status		
 Process to stop CAN communication 	unication is activated.	
tion with other control units is	DM E/R are stopped. When 1 seco s stopped, mode switches to sleep	nd has elapsed after CAN communica- status.
3. Sleep status		
 IPDM E/R operates in low cu 	•	
CAN communication is stopp		
 When a change in CAN com tus. 	imunication signal is detected, mod	le switches to CAN communication sta-
 When a change in ignition sw 	vitch signal is detected, mode swite	hes to CAN communication status.
CAN Communication Syst	tem Description	EKS006/C
Refer to LAN-5, "CAN COMMUNIC	•	
Function of Detecting Ign	ition Relay Mairunction	EKS0064E
	lay is stuck in a "closed contact" po amps for 10 minutes to indicate IPE	sition and cannot be turned OFF, IPDM DM E/R malfunction.
	ed ignition relay does not agree wi on, the IPDM E/R activates the tail	th the state of the ignition switch signal lamp relay.
Ignition switch signal	Ignition relay status	Tail lamp relay
ON	ON	
OFF	OFF	
OFF ON	OFF	

NOTE:

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

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CONSULT-II Function (IPDM E/R)

EKS0064F

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

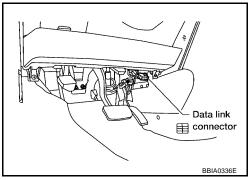
IPDM E/R diagnostic Mode	Description
SELF-DIAG RESULTS	Displays IPDM E/R self-diagnosis results.
DATA MONITOR	Displays IPDM E/R input/output data in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	Operation of electrical loads can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

CONSULT-II BASIC OPERATION

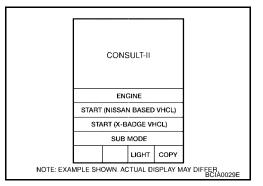
CAUTION:

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.

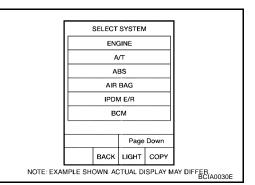
1. With the ignition switch OFF, connect CONSULT-II and CON-SULT-II CONVERTER to the data link connector, then turn ignition switch ON.



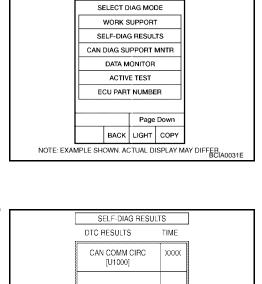
2. Touch "START (NISSAN BASED VHCL)".



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



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



SELF-DIAGNOSTIC RESULTS

Operation Procedure

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



Display Item List

Diaplay itoma	CONSULT-II	Malfunction detection	TI	ME	Possible causes	•
Display items	display code	Manufaction detection	CRNT	PAST		
NO DTC IS DETECTED. FURTHER 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. 	x	х	Any of items listed below have errors: • TRANSMIT DIAG • ECM • BCM/SEC	F

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".
- 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.

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

	CONSULT-II		Monitor item selection				
Item name	screen display	Display or unit	ALL SIGNALS	MAIN SIGNALS	SELECTION FROM MENU	Description	
Motor fan request	MOTOR FAN REQ	1/2/3/4	Х	х	х	Signal status input from ECM	
Compressor request	AC COMP REQ	ON/OFF	Х	х	х	Signal status input from ECM	
Parking, license, and tail 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	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	

All Signals, Main Signals, Selection From Menu

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 oper- ated.
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.



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Test name	CONSULT-II screen display	Description
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

EKS0064G

- 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

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

NOTE:

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

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

NOTE:

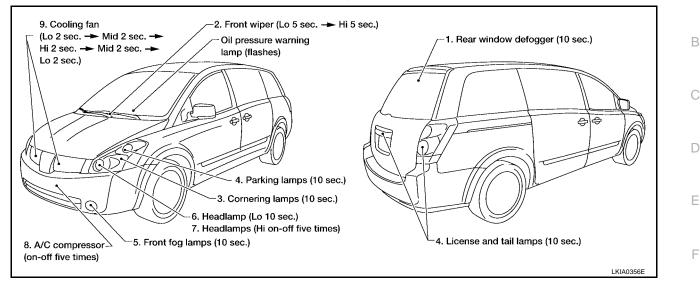
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

Be sure to perform <u>BL-43</u>, "Door <u>Switch Check (With Automatic Back Door System)</u>" or <u>BL-41</u>, "<u>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.



Concept of Auto Active Test

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

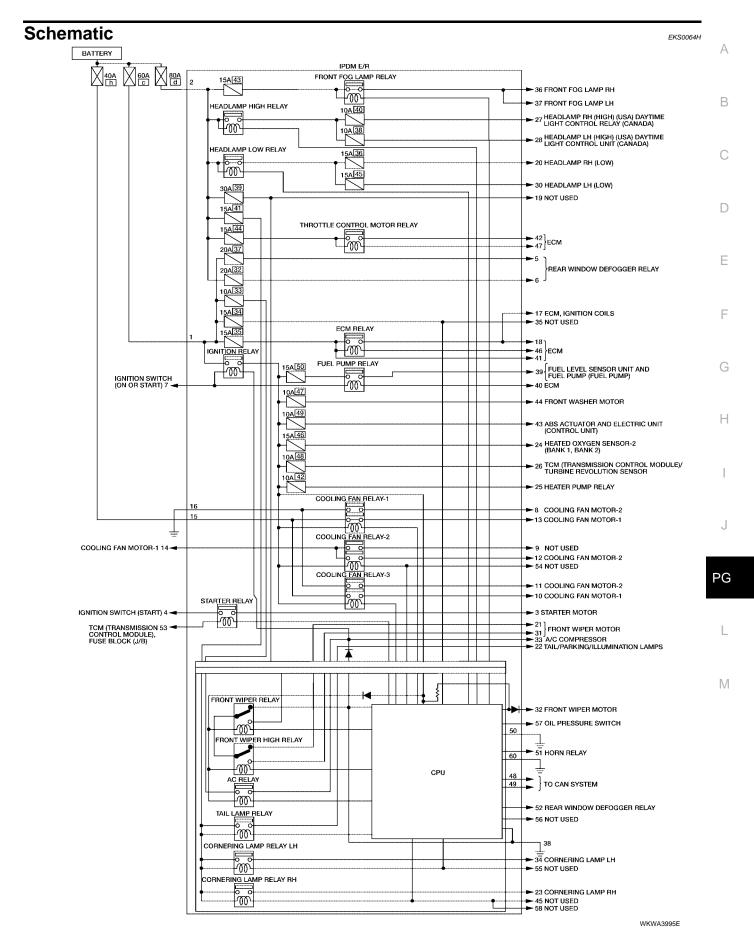
Diagnosis chart in auto active test mode

Symptom	Inspection conte	nts	Possible cause	
		YES	BCM signal input circuit	
	Perform auto active test. Does rear win-		Rear window defogger relay	J
Rear window defogger			Open circuit of rear window defogger	
does not operate.	dow defogger oper- ate?	NO	IPDM E/R malfunction	
			Harness or connector malfunction between IPDM E/R and rear window defogger	PG
	Any of front wipers, tail and parking lamps, front Perform auto active	YES	BCM signal input system	
Any of front wipers, tail			Lamp/wiper motor malfunction	L
fog lamps, cornering	test. Does system in		 Lamp/wiper motor ground circuit malfunction 	
lamps, and headlamps (Hi, Lo) do not operate.	question operate?	NO	 Harness/connector malfunction between IPDM E/R and system in question 	M
			 IPDM E/R (integrated relay) malfunction 	
			BCM signal input circuit	
		YES	 CAN communication signal between BCM and ECM. 	
A/C compressor does	Perform auto active		 CAN communication signal between ECM and IPDM E/R 	
not operate.	test. Does magnetic clutch operate?		Magnetic clutch malfunction	
		NO	 Harness/connector malfunction between IPDM E/R and magnetic clutch 	
			IPDM E/R (integrated relay) malfunction	
		YES	ECM signal input circuit	
		TEO	 CAN communication signal between ECM and IPDM E/R 	
Cooling fan does not	Perform auto active test. Does cooling fan		Cooling fan motor malfunction	
operate.	operate?	NO	 Harness/connector malfunction between IPDM E/R and cooling fan motor 	
			IPDM E/R (integrated relay) malfunction	

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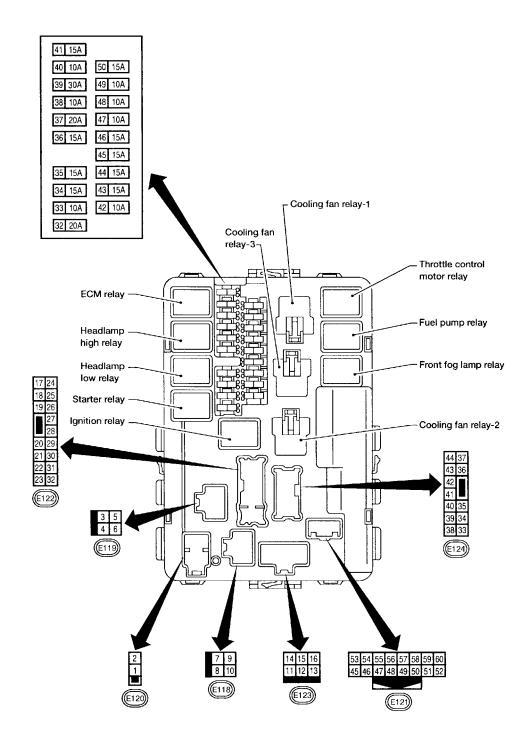
Symptom	Inspection contents		Possible cause
Oil pressure warning lamp does not operate. Perform auto active test. Does oil pres- sure warning lamp blink?	YES	 Harness/connector malfunction between IPDM E/R and oil pressure switch Oil pressure switch malfunction IPDM E/R 	
	blink?	NO	 CAN communication signal between BCM and Combination Meter Combination meter



Revision: September 2005

IPDM E/R Terminal Arrangement

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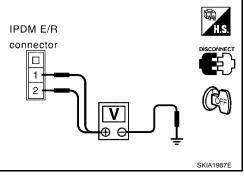
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Terminal No. Signal name Fuse, fusible link No. 1, 2, Battery power a, c, d OK or NG OK >> GO TO 2. NG >> Replace fuse or fusible link. 2. POWER CIRCUIT INSPECTION Inspection	Check that the following fusible link	s or IPDM E/R fuses are not blowr).	
OK or NG OK >> GO TO 2. NG >> Replace fuse or fusible link.	Terminal No.	Signal name	Fuse, fusible link No.	
OK >> GO TO 2. NG >> Replace fuse or fusible link.	1, 2,	Battery power	a, c, d	
	OK >> GO TO 2. NG >> Replace fuse or fusible			
	Disconnect IPDM E/R harness	connector E120.		
 Disconnect IPDM E/R harness connector E120. 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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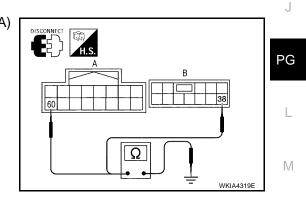
3. GROUND CIRCUIT INSPECTION

- 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 IPDM E/R ground circuit harness.



Inspection with CONSULT-II (Self-Diagnosis)

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
	display code	CRNT	PAST	Details of diagnosis result
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	_	_		No malfunction
CAN COMM CIRC	U1000	x	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 result and refer to <u>LAN-5, "CAN COMMUNICATION"</u>.

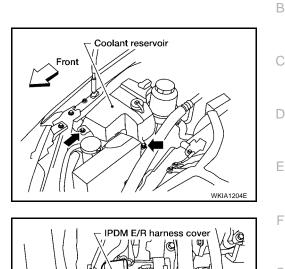
EKS0064K

Removal and Installation of IPDM E/R REMOVAL

- 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.

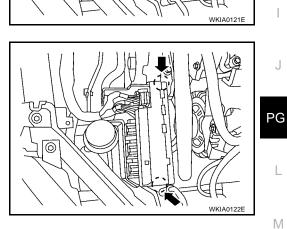
- 6. Release 2 clips and pull IPDM E/R up from case.
- 7. Disconnect IPDM E/R connectors and remove the IPDM E/R.



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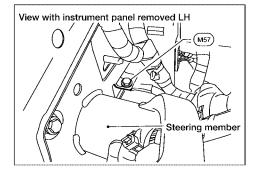
INSTALLATION

Installation is in the reverse order of removal.

GROUND CIRCUIT Ground Distribution MAIN HARNESS

7

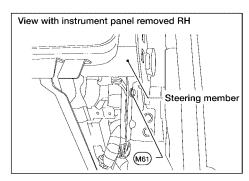
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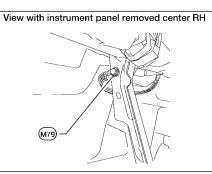


		CONNECTOR NUMBER	CONNECT TO
	f	M3	Fuse block (J/B) (rear blower motor relay) (Terminal No. 7N)
		(M5)	Illumination control switch
		(M6)	TCS OFF switch (without VDC)
Ф ^(м57)		(M6)	VDC OFF switch (with VDC)
Body ground		(M7)	Door mirror remote control switch
		M22	Data link connector (Terminal No. 4)
		M28	Combination switch
		(M34)	A/T device (overdrive control switch) (4A/T) (Terminal No. 2)
	•	(M47)	Steering angle sensor
		(M52)	Rear blower switch front
		M108	Lamps on demand switch
		M116	Rear sonar system off switch (Terminal No. 2)
		M116	Rear sonar system off switch (Terminal No. 6)
		D5	Seat memory switch
	(M9)(D1) Front Door Harness L	(D6)	Fuel lid opener switch
	•	D7)	Main power window and door lock/unlock switch (Terminal No. 15
		(D8)	Main power window and door lock/unlock switch (Terminal No. 17
		 (D13)	Door mirror LH
		(D14)	Front door key cylinder switch LH
		(R3)	Vanity lamp LH
	(M1) (R1) Room Harness		Sunroof motor
		(R5)	Personal lamp 2nd row LH (without rear roof console assembly)
		 	Personal lamp 2nd row RH (without rear roof console assembly)
	•	 (R8)	Vanity lamp RH
	•	(R9)	Room/map lamp
		(R10)	Automatic door main switch
	•	(R11)	Cargo lamp
		(R12)	Personal lamp 3rd row LH (without rear roof console assembly)
		(R13)	Personal lamp 3rd row RH (without rear roof console assembly)
		(R17)	Auto anti-dazzling inside mirror
		(R18)	Console lamp
	(R14)(R51) Roof Console Harness	(R52)	Personal lamp 2nd row (with rear roof console assembly)
		(R54)	Personal lamp 3rd row (with rear roof console assembly)
V			r oroona hamp ord row (with real root console assertiony)

Next page

WKIA3426E





Preceding page		CONNECTOR NUMBER	CONNECT TO
\neg \neg \neg		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. 40)
		(M49)	Front air control (Terminal No. 1)
•		(M55)	Hazard switch
Power point sub-harness		(M59)	Glove box lamp
		(M122)	Variable blower control (Terminal No. 4)
	M56 M201 Power point sub-harness	(M202)	Front power socket-1 (console)
	M56 M201 Power point sub-harness	M202)	Front power socket-1 (console)

		CONNECTOR NUMBER	CONNECT TO
	•	M23	Combination meter (Terminal No. 32)
\setminus		M33	Front power socket-2 (console side)
Y	•	(M42)	Automatic drive positioner control unit (Terminal No. 48)
ф Ф ^{(M79}		M93	Display unit (without NAVI) (Terminal No. 6)
Body ground		M93	Display unit (with NAVI) (Terminal No. 1)
	•	M94)	Display control unit (with NAVI) (Terminal No. 3)
	•	M98	AV switch
	Front door harness RH	M113	BOSE [®] speaker amp.
		D105	Front power window and door lock/unlock switch RH
		D113	Door mirror RH

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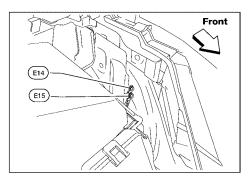
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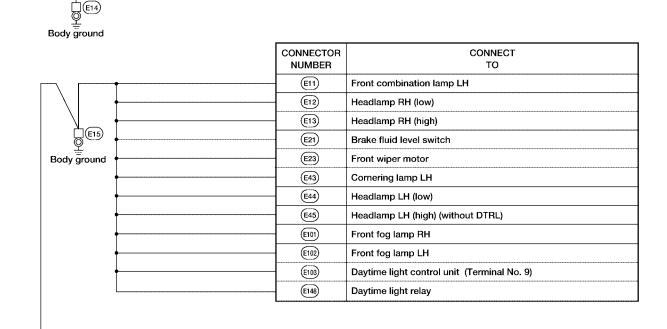
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WKIA4803E

ENGINE ROOM HARNESS

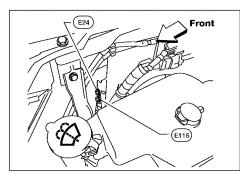


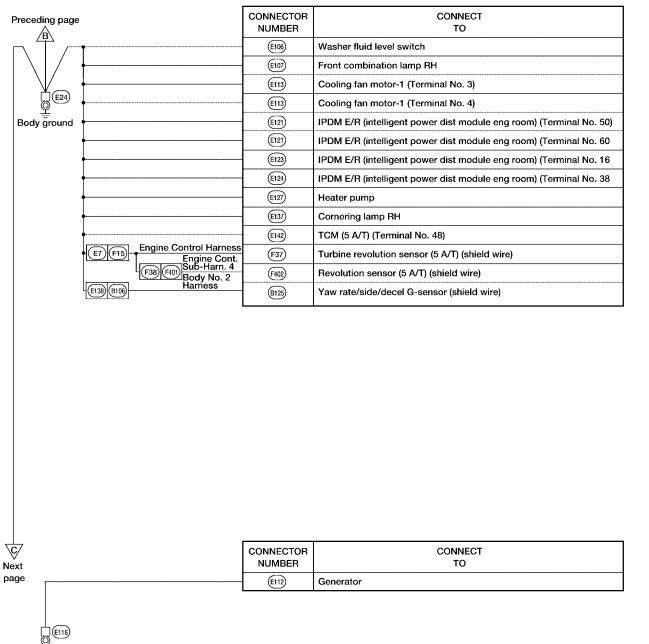
CONNECTOR NUMBER	CONNECT TO
 E4	Crash zone sensor (shield wire)



B Next page

WKIA3428E





Body ground

WKIA4804E

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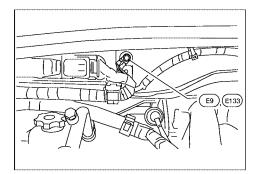
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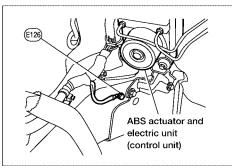
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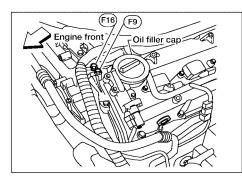
Preceding page A		
	CONNECTOR NUMBER	CONNECT TO
E5 F14 Engine Control Harness	(F11)	Crankshaft position sensor
E9 E10 E10 E10 E10 E10 E10 E10 E10	(F23)	Camshaft position sensor (Phase) (Bank 2)
Body ground	(F302)	Knock sensor
	(F303)	Camshaft position sensor (Phase) (Bank 1)
E2 F32 Engine Control Harness	(F29)	Park neutral position (PNP) switch
•	(F50)	Electronic throttle control actuator (Throttle position sensor) (shield wire)
	(F54)	ECM (Terminal 1)

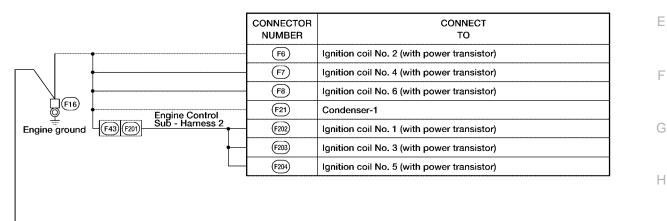
	CONNECTOR NUMBER	CONNECT TO
Body ground	E125	ABS actuator and electric unit (control unit) (without VDC) (Terminal No. 16)
	E125	ABS actuator and electric unit (control unit) (without VDC) (Terminal No. 30)
	E125	ABS actuator and electric unit (control unit) (with VDC) (Terminal No. 31)
	E125	ABS actuator and electric unit (control unit) (with VDC) (Terminal No. 46)

		CONNECTOR NUMBER	CONNECT TO
Define the second secon	E26 M91 Main Harness	(M34)	A/T device (5 A/T) (Terminal No. 2)
		(E16)	ECM (Terminal 115)
		(E16)	ECM (Terminla 116)
		(E143)	TCM (4 A/T) (Terminal No. 25)
		(E143)	TCM (4A/T) (Terminal No. 48)

WKIA4805E

ENGINE CONTROL HARNESS







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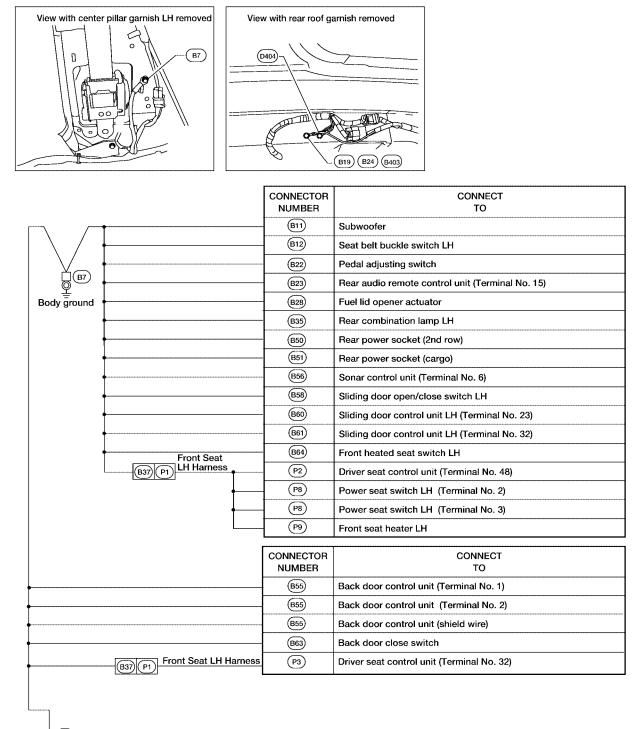
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Revision: September 2005

WKIA3557E

BODY HARNESS

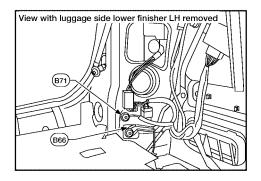


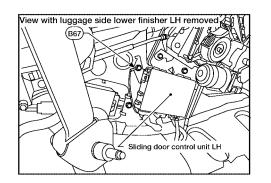
↓ (B19)

Body ground

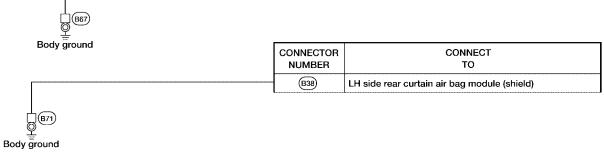
WKIA4806E

GROUND CIRCUIT





	CONNECTOR NUMBER	CONNECT TO
[]/	(B55)	Back door control unit (bus shield wire)
B66	(B65)	Condenser-3
Body ground	B68	Condenser-4





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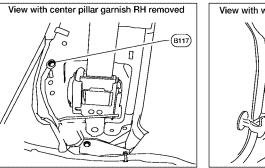
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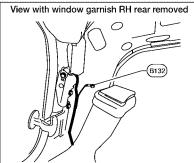
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GROUND CIRCUIT

BODY NO. 2 HARNESS





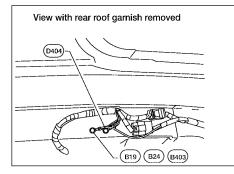
		CONNECTOR NUMBER	CONNECT TO
·····		B109	Heated seat relay
		B110	Seat belt buckle switch RH
		B124)	Heated seat switch RH
		B130	Rear combination lamp RH
Body ground		B138	Condenser-2
•		B140	Sliding door open/close switch RH
•		(B142)	Rear air control (Terminal No. 3)
•		B143	Sliding door control unit RH (Terminal No. 23)
•	Fuel Tank	B143	Sliding door control unit RH (Terminal No. 32)
+	B148 B251 Sub-Harness Front Seat	B252)	Fuel level sensor unit and fuel pump (Terminal No. 3)
•	B115 P101 RH Harness	P108	Power seat switch RH
	Front Seat	P110	Front seat heater RH
•	B116 P102 RH Harness Front Seat	P105	DVD player
•	B118 P103 RH Harness	P106	NAVI control unit (Terminal No. 1)
		P106	NAVI control unit (Terminal No. 4)
	Front Seat	P107	NAVI control unit (illumination) (Terminal No. 30)
	B136 P151 RH Harness	P152	Occupant detection system control unit (Terminal No. 14)

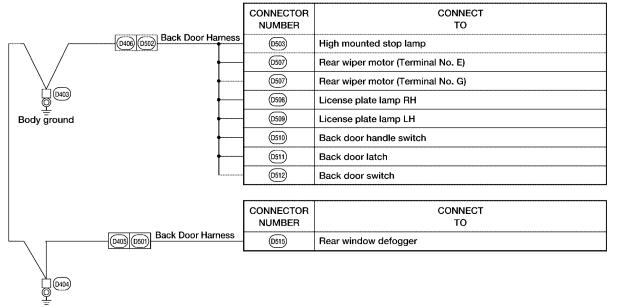
Body ground

WKIA3433E

GROUND CIRCUIT

BACK DOOR NO. 2 HARNESS





WKIA1218E

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Harness Layout HOW TO READ HARNESS LAYOUT

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

- Main Harness
- Engine Room Harness LH View (Engine Compartment)
- Engine Room Harness RH View (Engine Compartment)
- Engine Control Harness
- Body Harness and 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.

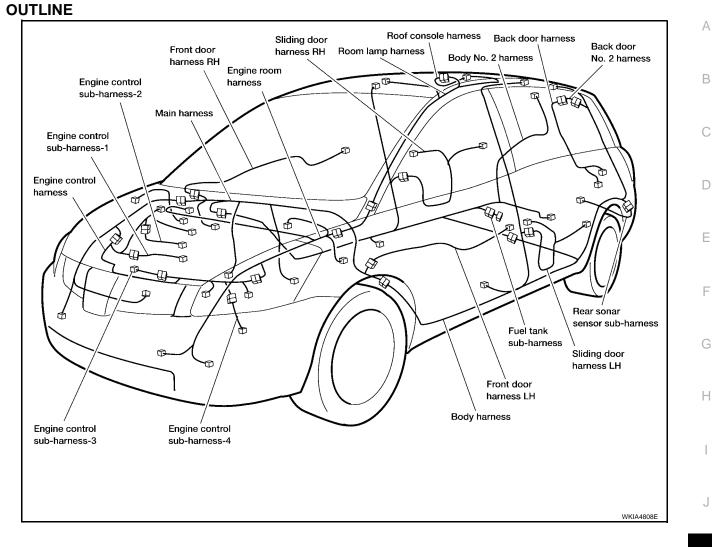
CONNECTOR SYMBOL

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

Connector type	Water pr	oof type	Standard type						
Connector type	Male	Female	Male	Female					
Cavity: 4 or Less		6		Ø					
 Relay connector 	CP	لالك							
• Cavity: From 5 to 8	\bigcirc	\bigcirc	\bigcirc						
Cavity: 9 or More	\bigcirc	\bigcirc	\bigcirc	\bigcirc					
Ground terminal etc.	-	-	6	2					

Example:	
	ACTUATOR
Connector col	or/Cavity
Connector number	
Grid reference	
	SEL252V

PFP:24010

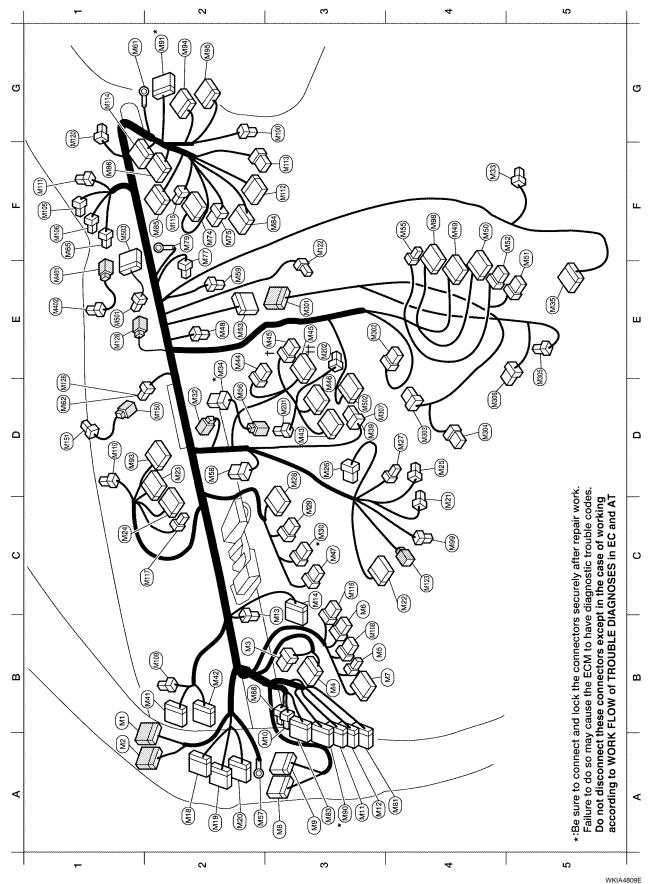


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MAIN HARNESS



: Front tweeter LH : Center speaker (with BOSE) : Front tweeter RH : BOSE speaker amp. : BOSE speaker amp.	: To (ଟାଡ଼) : To (ଟାଡ଼) : Rear sonar system Off switch	: Sonor buzzer : Remote keyless entry reciever : Variable blower control	: Tire pressure warning check connector : To (160) : To (1056)	: To the power socket-1 (console) : To (MEB)	: Intake door motor (passenger) (with ATC) : Defrost door motor : Mode door motor	: Intake sensor : Air mix door motor (passenger) (with ATC) Air mix door motor (front) (with MTC)	: To (M65) : Optical sensor : To (M128) : Audio unit	: Satellite radio tuner (pre-wiring)
BR/2 BR/2 BR/2 B/24 GR/8	W/24 W/4 GR/8	BR/2 W/4 B/4	W/2 W/2	B/3 W/16	B/6 B/6	GR/2 B/6 B/6	W/4 B/4 W/2 W/12	W/16
(III) (III) (III) (III) (III) (III)	M115 (M115)	(M12) (M12) (M12)	(M123) (M123)		W303 (W303)	(W309) (W309)	(M502) (M402) (M402)	WEO
53 53 63 63 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	32 E2 G1	5 6 C	ы В Ш С	3 8 8 8	6 6 E	E5 D4 D3	日日日の	rking
: Glove box lamp : Body ground : Front blower motor : To (war) : To (man)	: Front passenger air bag module (service replacement) : Bodvground	: む (mag) む (: To (8:00) : To (8:2) : To (223)	: To (20) : Display unit : Display control unit (with NAVI)	: Display control unit (with NAVI) : AV switch	: Foot lamp LH : Foot lamp RH : Passenger air bag - Passender air bag	: Lamps on demand switch	Be sure to connect and lock the connectors F1 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
BR/2 W/2 W/4 W/16 W/8	- Υ/4	W/16 W/12 W/16 BR/24	BR/20 Y/4 W/24	BR/16 W/24 W/24		BR/2 BR/2 Y/2 O/2	BR/6	connect c er repair o so may rouble c ectors o
E2 (M6) (M6) (M6) (M6) (M6) (M6) (M6) (M6)	F2 (M77) F2 (M77) F2 (M79)			G2 (M9) D1 (M93) G2 (M94)		G3 (M10) G3 (M10) G3 (M10) M10) G3 (M10) G3 (M10		Be sure to connect and loc securely after repair work. Failure to do so may cause diagnostic trouble codes. these connectors except
: Key switch : Combination switch (spiral cable) : Combination switch (spiral cable)	 Int-venicle sensor Front power socket A/T device Air baq diagnosis 	sensor unit sensor unit (driver) (with ATC) : Automatic drive positioner	control unit : Automatic drive positioner control unit	 Audio unit Audio unit Audio unit (with base audio system) 	: Audio unit (except base audio system) : Audio unit	: Steering angle sensor : To (460) Front air control	 Front air control Front blower switch (front) To (x30) 	: Hazard switch *: : To (w20) : Body ground : Intake door motor (driver) (with ATC)
W/2 W/16 Y/6 GR/8	w/4 B/3 GR/8 Y/28	B/6 W/32	W/16	W/10 W/6 W/8	(M45)H W/16 (M46) W/20	W/8 BR/2 B/26	B/18 W/8 W/8 W/16	W/4 W/2 B/6
WISH WISH WISH	w34) (W34) (W33)) (M39) (M39)	(M42)	(M45) (M45) (M45)	(M46) (M45)	(M47) (M48) (M47)	(W2) (W2) (W2) (W2)	(N15() (N15() (N15() (N15()
C3 ⁴ C3 ⁴ C3 ⁴ M29 M29 M29 M29 M29 M29 M29 M29 M29 M29	E2 * (M33) E2 * (M33) E5 (M35) E5 (M35)	B2 D3		E3 (103)			F4 F5 F5 E2 E2	F4 (D2 D2 (D2 D2 U
 a : To (R) b : To (R) with DVD c Fuse block (J/B) f Euse block (J/B) i Illumination control switch 	 3 : TCS OFF switch (without VDC) 3 : VDC OFF switch (with VDC) 		control switch (with auto drive positioner) BR/24 : To (D2)	12 : To (21) : To (23) 5 : To (81) 24 : To (82)	-		 Down (body control module) NATS antenna amplifier Data link connector Combination meter 	4
W/16 W/16 W/8 W/16 W/16	GR/6 GR/6	W/10 W/12	BR/2	GR/12 W/4 W/16 GR/24	L/4 W/16	W/40 B/15	W/4 W/16 W/16	GR/2 GR/2 W/6
B1 M1 A1 M2 B2 M3 B3 M4	C3 (M6) C3 (M6)	B4 (M7) B4 (M7)	A3 (8)	A3 (M9) A3 (M10) A3 (M11) A3 (M12)	C3 (M14) C3 (M14)	A2 (M18) A2 (M19)	C4 (M2) C4 (M2) C4 (M2) C4 (M2)	D3 M26

Revision: September 2005

2005 Quest

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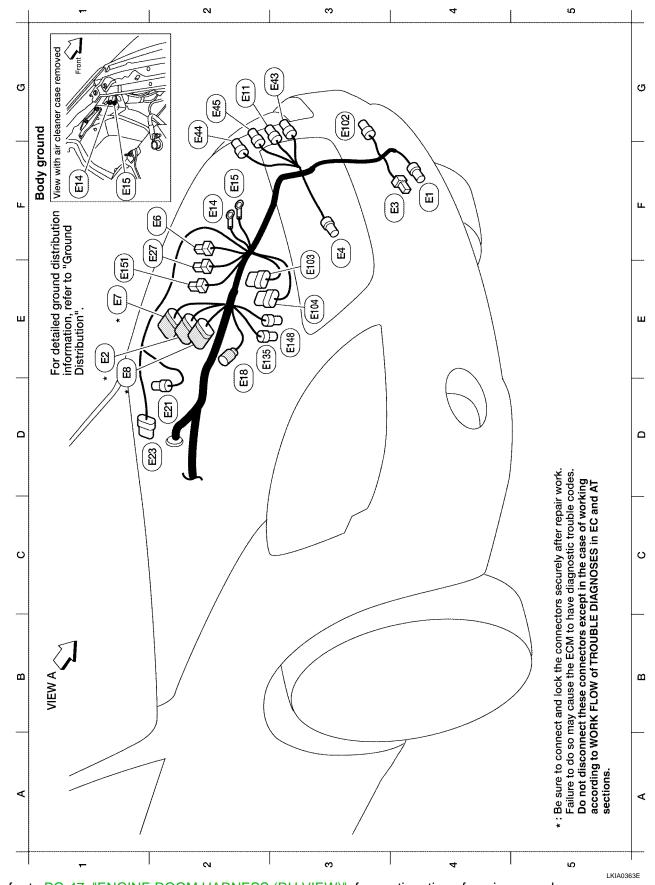
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ENGINE ROOM HARNESS (LH VIEW) Engine Compartment



Refer to <u>PG-47, "ENGINE ROOM HARNESS (RH VIEW)"</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.
: Ambient sensor : To (F32)	: Horn (low)	: Crash zone sensor	: Fusible link box (battery)	: To (F15) (with 5 A/T)	: To (F17)	: Front combination lamp LH	: Body ground	: Body ground	: Front wheel sensor LH	: Brake fluid level switch	: Front wiper motor	: Fusible link box (battery)	: Cornering lamp LH	: Headlamp LH (low)	: Headlamp LH (high)	: Front fog lamp LH	: Daytime light control unit	: Daytime light control unit	: Dropping resistor (with 4 A/T)	: Daytime light relay	: To (F66)			
(E) B/2 * (E2) GR/10	E3 B/1	E4 Y/2	E6 GR/2	* (E7) G/10	* E8 B/12	E11 GR/3	E14 -	E15	E18 B/2	E21) GR/2	E23 GR/6	E27 BR/2	E43 GR/2	E44 BR/2	E45 B/2	E102 B/2	E103 GR/8	E104 GR/6	E135) GR/2	E148 W/3	Ets) B/1			
E1 F4	F4	£	F2	Ē	Ē	G2	F2	F2	D2	D2	D2	F2	63	G2	G2	ខ្ល	F3	£	Ë	ß	Ξ			WKIA

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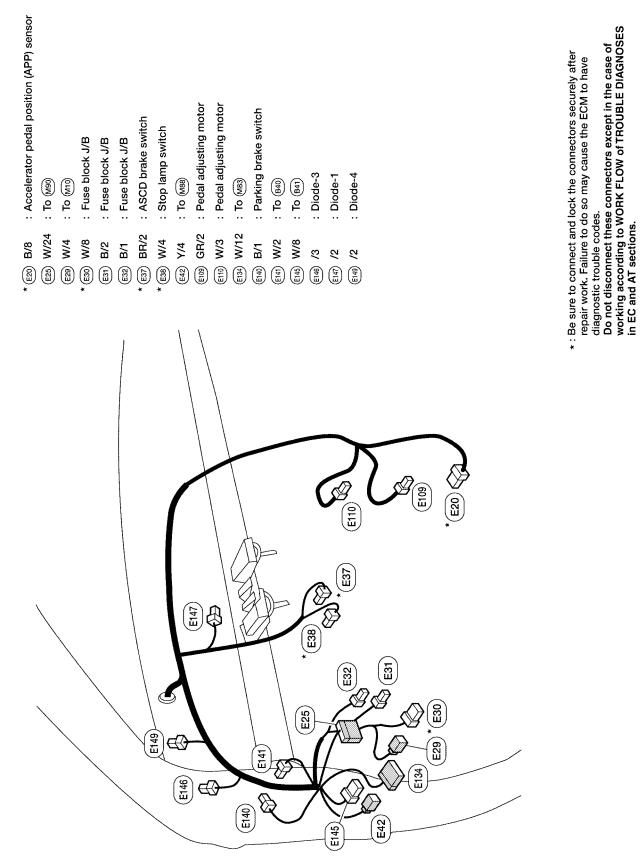
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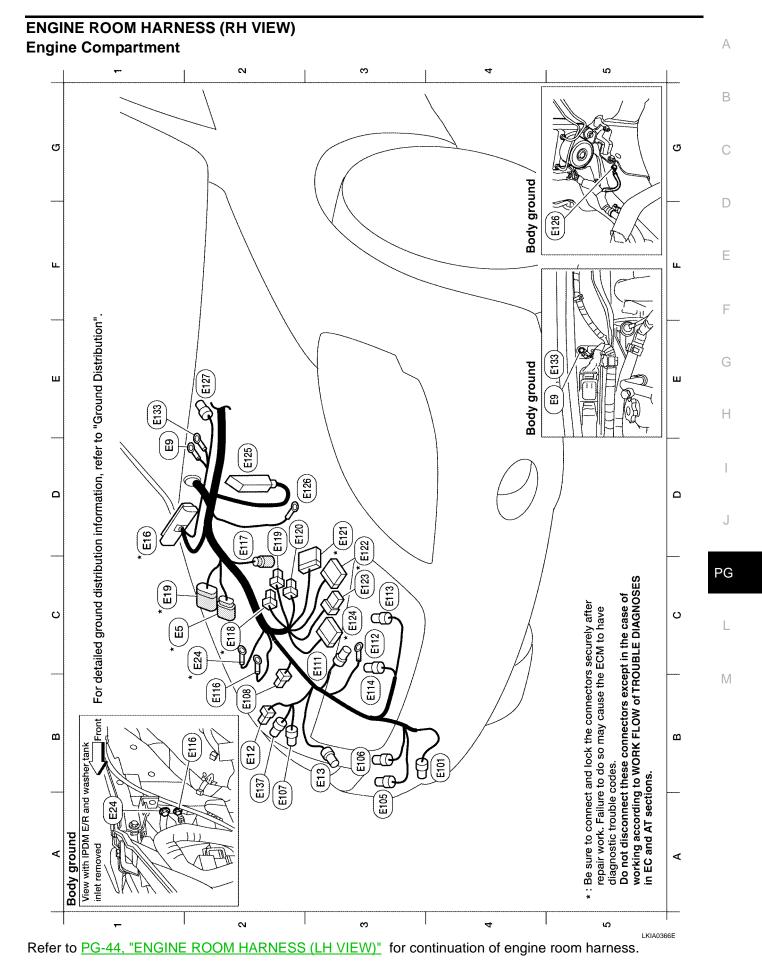
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Passenger Compartment



LKIA0365E

HARNESS



Revision: September 2005

PG-47

2005 Quest

BR/2 GR/3

GR/2

: Front combination lamp RH

: Horn (high)

B

: Washer fluid level switch

: Front fog lamp RH : Washer motor

B/2

Body ground

.

: ECM : To (F33)

GR/9

B/32

: Refrigerant pressure sensor

B/3

Revision: September 2005		

: Headlamp RH (high)

B/2

: Headlamp RH (low)

BR/2

: Body ground

: To (F14)

B/8

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

Front wheel sensor RH

GR/2

W/4

B/4

Cooling fan motor-2

: Body ground

1

Cooling fan motor-1

GR/4 GR/4

Generator (ground)

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.

*

WKIA3438E

: Cornering lamp RH

GR/2

E137

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E133

: Body ground : Heater pump : Body ground

B/2

E127

Ы

GR/30

D2 D2 C3

B/46

W/12

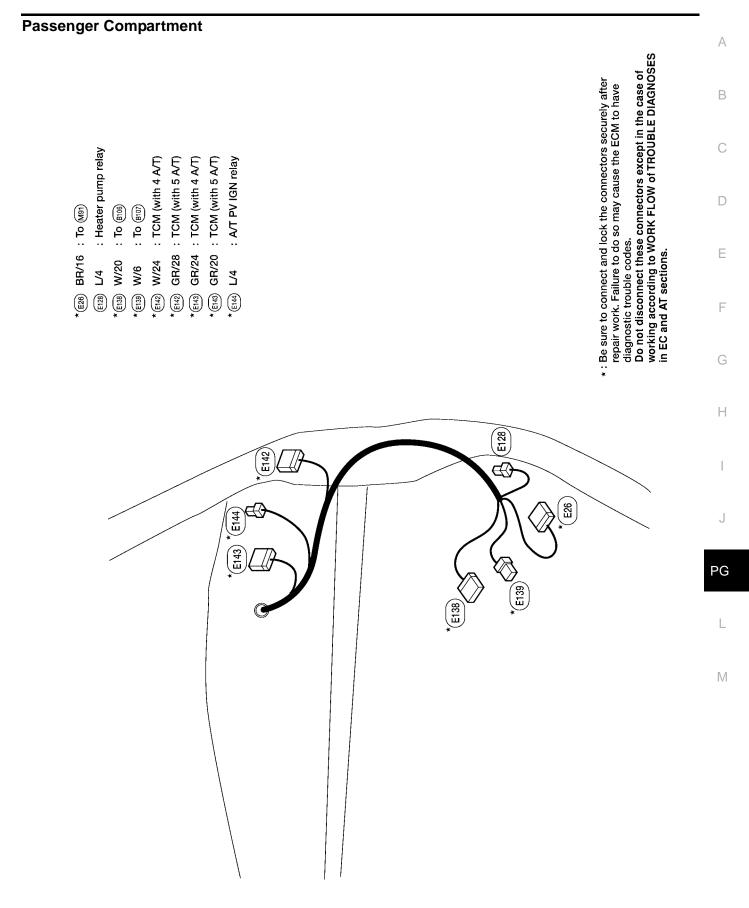
W/6

GR/16

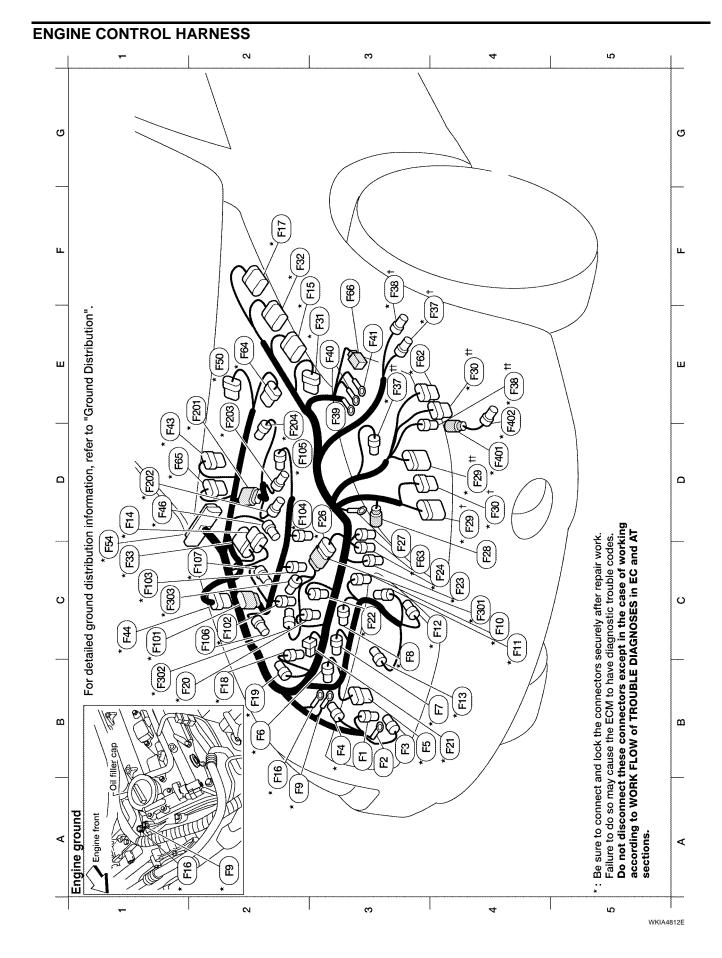
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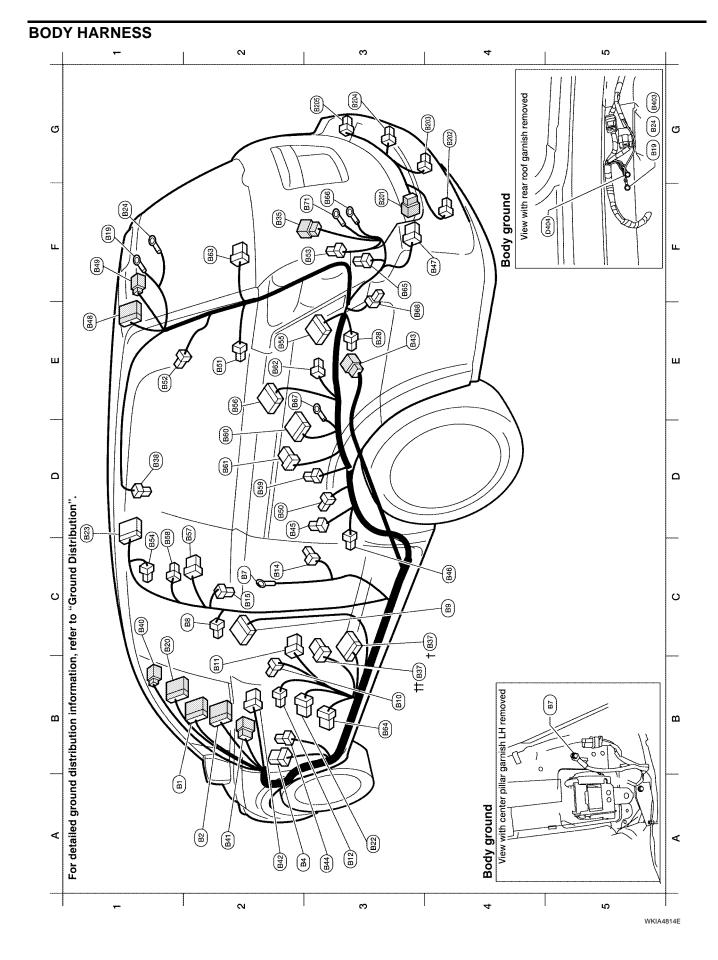
B/2



WKIA2966E



WKIA4813E



Rear sonar system sensor sub-harness : Sliding door contact switch LH (pillar) : Rear sonar system sensor (RH outer) : To (B301) (trailer tow acc. sub-harness) : Rear sonar system sensor (LH outer) : Rear sonar system sensor (LH inner) : Rear sonar system sensor (RH inner) : Rear power vent window motor LH : Sliding door open/close switch LH : Sliding door motor assembly LH (sliding door encoder LH) : LH side curtain air bag module : To (D401) (with power back door) : Rear power socket (2nd row) : Front heated seat switch LH : Sliding door control unit LH : Sliding door control unit LH : Rear power socket (cargo) : Fuel door interlock switch : Back door close switch : Back door control unit : Sonar control unit : Body ground : Condenser-3 : Body ground : Condenser-4 : Body ground : To 0402 GR/6 : To 🕅 W/24 W/16 GR/1 W/26 W/24 GR/6 BR/6 W/4 W/8 W/8 W/2 W/4 W/2 W/2 B/3 B/3 Y/2 W/4 B/2 B/3 B/3 B/3 B/3 . ı Beg B202 (620) (620) B204 (B48) (B4) B51 BSB B53 B54 B65 BSG B67 838 69 8 (B64) B65 BG1 (88) B66 Ber Beg (Fa

To (_{M1}) To (<u>M2</u>) Rear window defogger relay	Body ground Front door switch LH	Air bag diagnosis sensor unit	Front LH side air bag module	Subwoofer	Seat belt buckle switch LH	Front LH seat belt pre-tensioner	LH side air bag (satellite) sensor	Body ground	To (MBT)	Pedal adjusting switch	Rear audio remote control unit	Body ground	Fuel lid opener actuator	Rear combination lamp LH	To P1 (with memory seat)	To P1 (w/o memory seat)	LH side curtain air bag module	To E141	To E145	Fuse block (J/B)	To (811)	Circuit breaker-2	Rear speaker LH	Sliding door switch LH	To(B201)	To (ஹ) (without power back door)
·· ·· ··	•• ••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••	••
W/16 GR/24 BR/6	W/3	Y/12	Y/2	W/8	W/3	Y/2	Y/2		W/16	W/6	W/16		W/4	9/M	W/16	Hw/6	Y/2	W/2	W/8	W/ 6	W/8	W/2	W/2	W/3	GR/6	W/12
(m) (m) (m) (m) (m) (m)		(B)			B12	(B14	B15	(B19)	B 20	B22	B 23	B24	B28	B35	B37	B37	B 38	(B40)	(B41	B42	(B43	(B44)	(B45)	B46	(B47	(B48)
A1 A2 A3	5 5	9	B3	B2	A3	ö	C2 C	E	ប	A3	ប	E	Ë	F2	9	B3	5	5	A2	A2	£	A3	D2	0 4	F4	ũ

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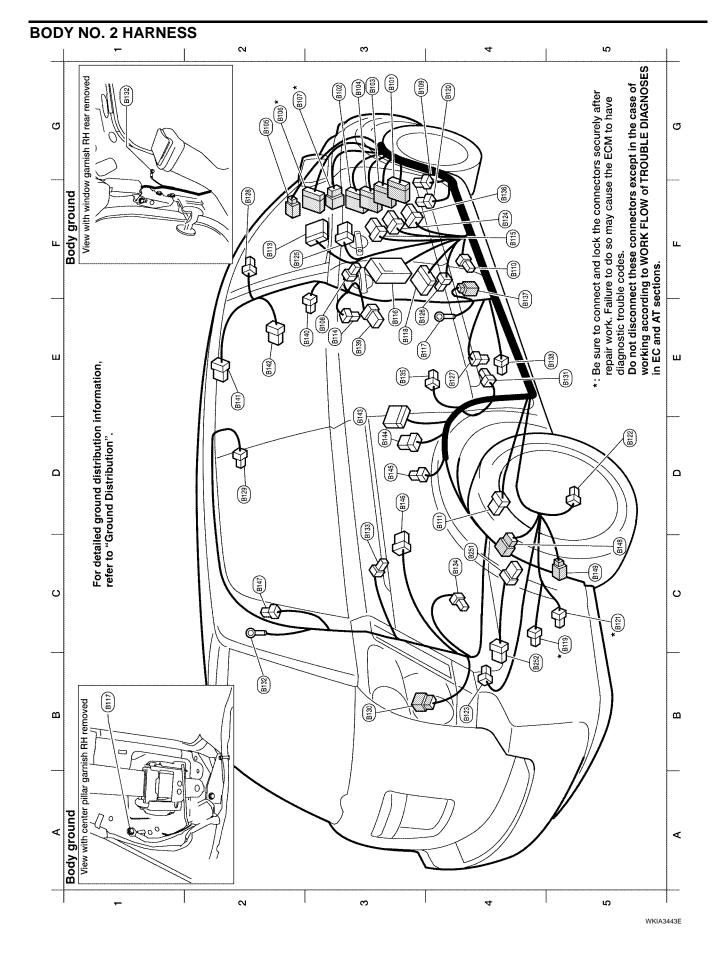
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: Body ground	: Rear blower motor resistor	: Rear blower motor	: Sliding door switch RH	: To (P15)	: Belt tension sensor	: Condenser-2	: Sliding door contact switch	KH (pillar)	: Sliding door open/close switch RH	: Rear air control	: Rear air control	: Sliding door control unit RH	: Sliding door control unit RH	: Sliding door motor assembly RH	(sliding door encoder RH)	: Air mix door rear	: Rear power vent window motor RH	: To ⁽²⁵⁾	: Running board lamp pre-wiring	Fuel tank sub-harness	: To (B148)	: Fuel tank					 Les sure to connect and lock the connectors securely atter repair work. Failure to do so may cause the ECM to have 	diagnostic trouble codes. Do not disconnect these connectors excent in the case of	working according to WORK FLOW of TROUBLE DIAGNOSES	in EC and AT sections.	
,	B/4	B/2	W/3	W/8	B/3	W/2	W/8		W/4	B/5	W/6	W/24	W/8	W/4		B/6	W/2	GR/6	GR/2	(sub-	GR/6	GR/5									
(B132)	(B133	B134	(B135)	B136	(B137	B138	(B139	(B140	(B141)	B142	B143	(B142)	B145		B146	B147	B148	B149	l tank	(B251)										
B2	ទ	0 4	E3	G4	F4	E5	E3		E	E2	E2	Ш	B3	D3		D3	02 0	C5	C5	Fue	04 0	B4									
: To (M84)	: To (MB)	: To (MBE)	: To (M14)	: To (M13)	: To (E138)	: To ^(E13)	: Front door switch RH	: Heated seat relay	: Seat belt buckle switch RH	: To (B43)	: Air bag diagnosis sensor unit		. To end			: Body ground		: EVAP control system pressure sensor	: Circuit breaker-1	: EVAP canister vent control valve	: Rear wheel sensor RH	: Rear wheel sensor LH	: Front heated seat switch RH	: Yaw rate/side/decel G-sensor	: Front RH side air bag module	: Front RH seat belt pre-tensioner	: RH side curtain air bag module	: RH side curtain air bag module	: Rear combination lamp RH	: Rear speaker RH	
W/16	BR/24	BR/20	W/24	W/4	W/20	9/M	W/3	L/4	W/3	W/8	Y/12	۲/2		SWI				GR/3	W/2	B/2	GR/2	L/2	BR/6	B/6	Y/2	Y/2	Y/2	Y/2	9/M	W/2	
(BIO)	-	-	-	_							-	-		_						* B121)			B 124	B125	B126	B127	B128	B129	- 8130		
(ਛ)) B	(Hold	(III)	* B106	(BIO)	E100	8) 🔚	B113	ノ (画	人间	ノ値	シし	<u>س</u>	. ک	٦	(B120)	6	<u>ل</u> ف	(iii)	(a)	(B)	رف	(a)	Ś	لف	ريف	(a)	

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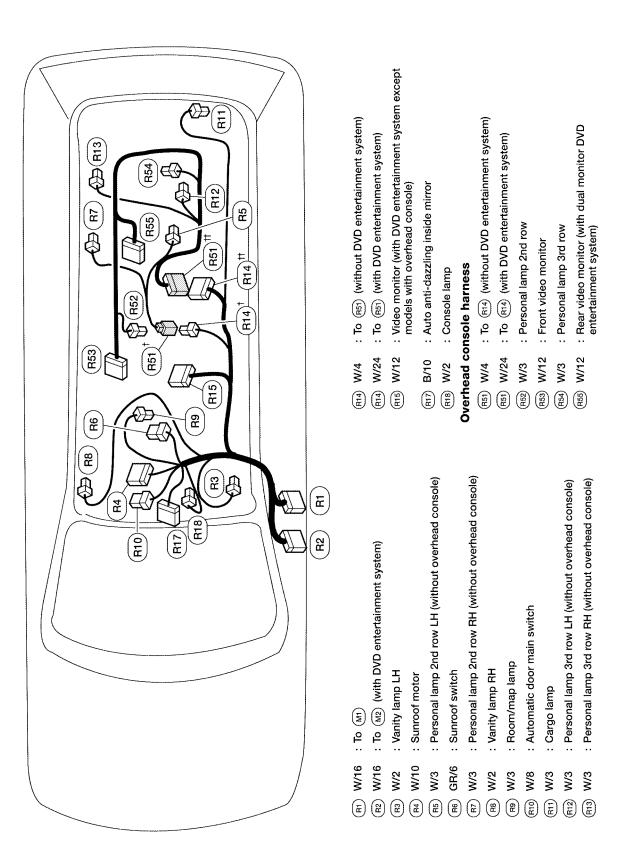
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ROOM LAMP HARNESS



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FRONT DOOR LH HARNESS

D1) GR/12	: To (M9)
(D2) BR/24	: To (M8)
	: Front door speaker LH (without BOSE audio system)
D3) BR/2	: Front door speaker LH (with BOSE audio system)
D4) W/8	: Door mirror LH
D5 W/8	: Seat memory switch
06 W/4	: Fuel lid opener switch
07) W/16	: Main power window and door lock/unlock switch
D8 W/3	: Main power window and door lock/unlock switch
(D9) GR/6	: Front power window motor LH
D11 W/2	: Front step lamp LH
D13) W/6	: Door mirror LH (D14)
(D14) B/6	: Front door lock actuator LH (front door key cylinder switch LH
	LKIA0378E

FRONT DOOR RH HARNESS

©101) W/8	: To (M75)
©102 W/16	: To (M74)
©103 W/2	: Front door speaker RH (without BOSE audio system)
0103 BR/2	: Front door speaker RH (with BOSE audio system)
©104 GR/6	: Front power window motor RH
©105 W/16	: Power window and door lock/unlock switch RH
©107 W/8	: Door mirror RH
©109 W/2	: Front step lamp RH
©113 W/6	: Door mirror RH (D107)
€114 B/6	: Front door lock actuator RH
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Revision: September 2005

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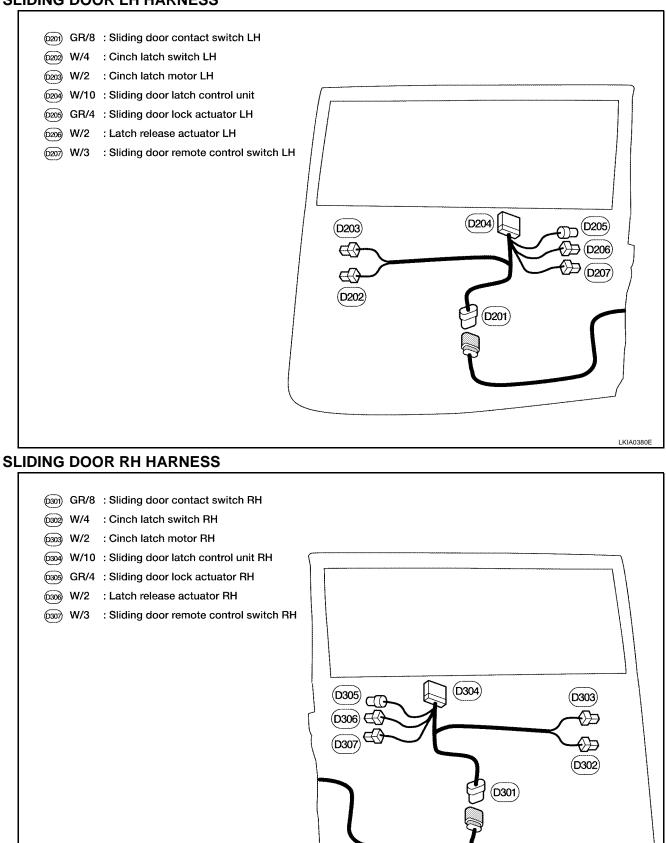
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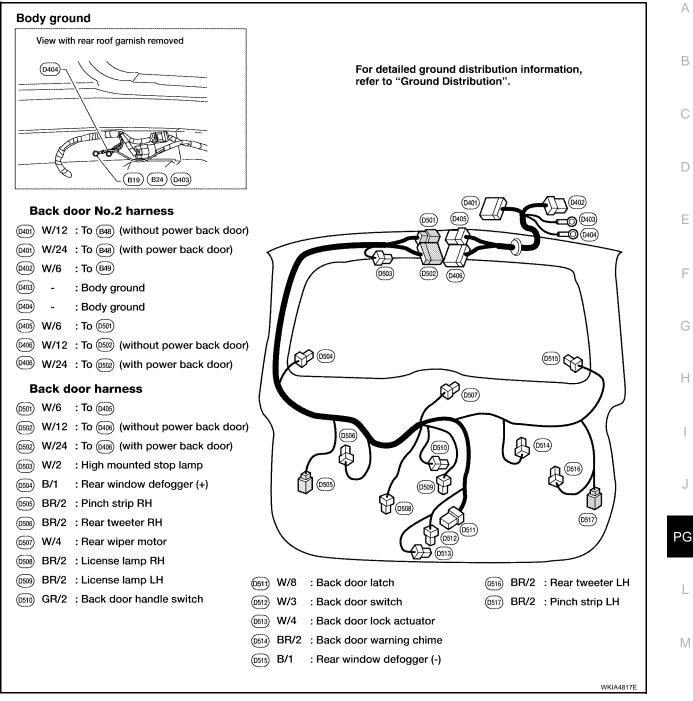
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SLIDING DOOR LH HARNESS



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BACK DOOR HARNESS



Wiring Diagram Codes (Cell Codes)

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 pu

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

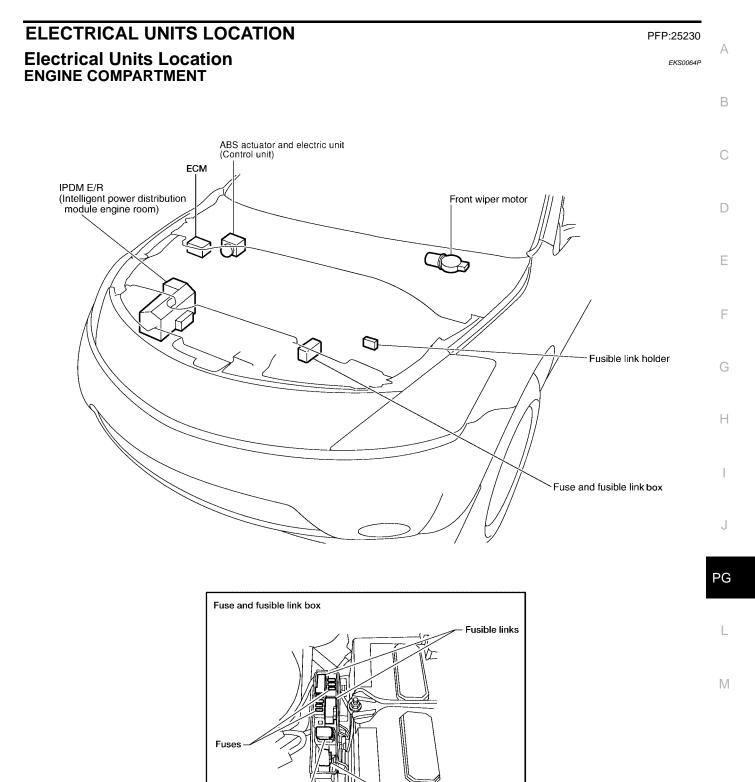


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ETC2	EC	Throttle Control Motor Relay	-
ETC3	EC	Throttle Control Motor	A
F/FOG	LT	Front Fog Lamp	_
F/LID	BL	Fuel Lid Opener	-
F/PUMP	EC	Fuel Pump	В
FTS	AT	A/T Fluid Temperature Sensor	_
FTSP	AT	A/T Fluid Temperature Sensor Failure	
FTTS	EC	Fuel Tank Temperature Sensor	C
FUELB1	EC	Fuel Injection System Bank 1	_
FUELB2	EC	Fuel Injection System Bank 2	_
H/LAMP	LT	Headlamp	D
HORN	WW	Horn	_
HSEAT	SE	Heated Seat	- E
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)	
IATS	EC	Intake Air Temperature Sensor	_
IGNSYS	EC	Ignition System	
ILL	LT	Illumination	- Г
INF/D	AV	Vehicle Information and Integrated Switch System	_
INJECT	EC	Injector	G
INT/L	LT	Room/Map, Vanity, Cargo, Personal, Foot, Step, Puddle and Running Board Lamps	- 0
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1	-
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2	- H
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	J
MAIN	EC	Main Power Supply and Ground Circuit	-
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges	PG
MIL/DL	EC	Malfunction Indicator Lamp	
MIRROR	GW	Door Mirror	
NATS	BL	Nissan Anti-Theft System	- I
NAVI	AV	Navigation System	
NONDTC	AT	Non-detectable Items	_
O2H2B1	EC	Rear Heated Oxygen Sensor 2 Heater Bank 1	M
O2H2B2	EC	Rear Heated Oxygen Sensor 2 Heater Bank 2	141
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 1	_
O2S2B2	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/C	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	-
			-

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
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)
TCS	BRC	Traction Control System
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

ELECTRICAL UNITS LOCATION



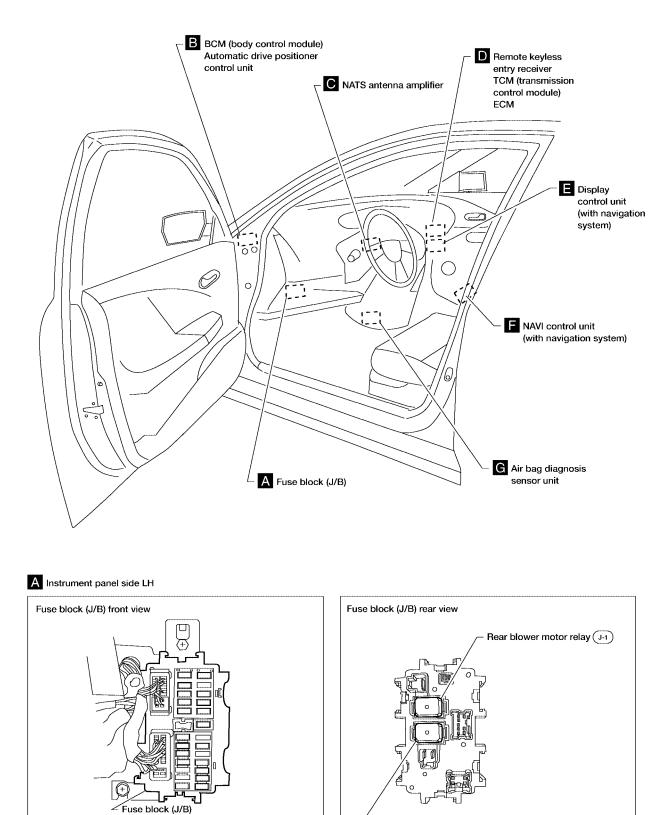
- Horn relay (H-1)

Front blower

motor relay

ELECTRICAL UNITS LOCATION

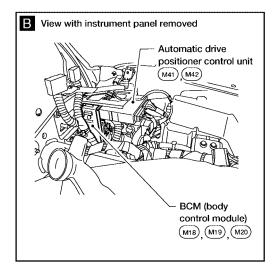
PASSENGER COMPARTMENT

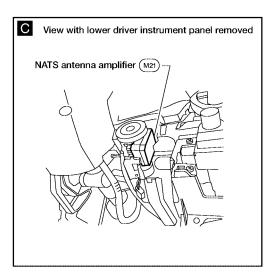


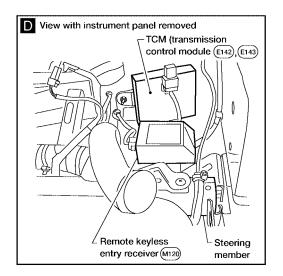
 \angle Accessory relay (J-2)

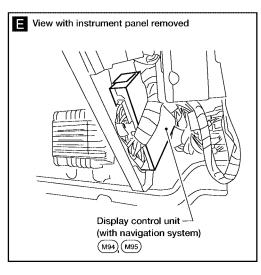
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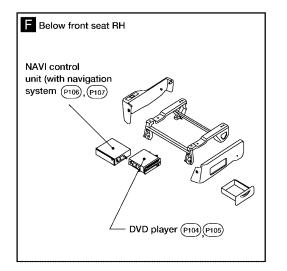
M3, M4, E30 (E31), E32, B42

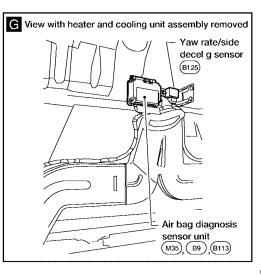












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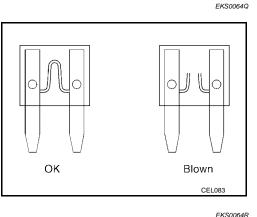
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Fuse

- 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:

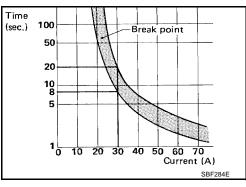
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of incident.
- Never wrap outside of fusible link with vinyl tape.
- Never let fusible link touch any other wiring harness,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

Circuit Breaker (Built Into BCM)

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
- Rear window wiper



EKS0064S

HARNESS CONNECTOR



Description HARNESS CONNECTOR (TAB-LOCKING TYPE)

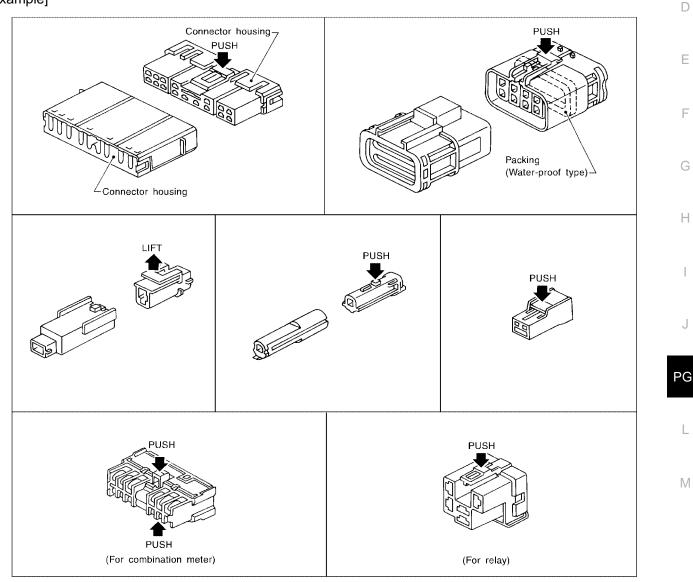
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the • illustration below.

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]



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HARNESS CONNECTOR

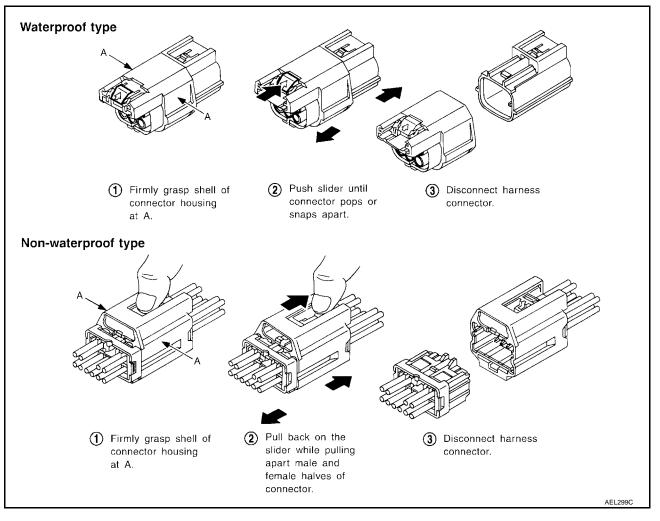
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

CAUTION:

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

[Example]



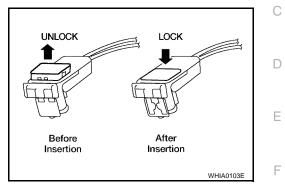
HARNESS CONNECTOR

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, ^B the black locking tab is level with the connector housing.

CAUTION:

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



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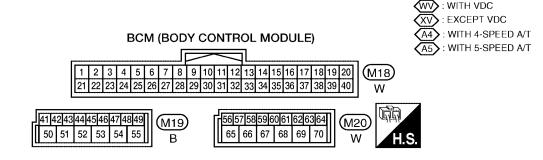
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ELECTRICAL UNITS Terminal Arrangement

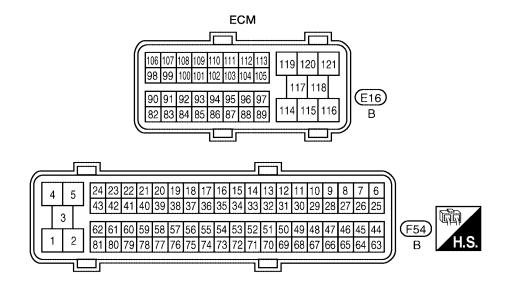
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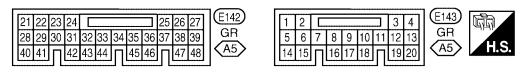


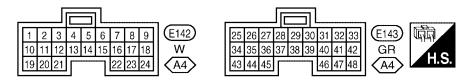
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 GR 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 XV	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $



TCM (TRANSMISSION CONTROL MODULE)





STANDARDIZED RELAY

STANDARDIZED RELAY

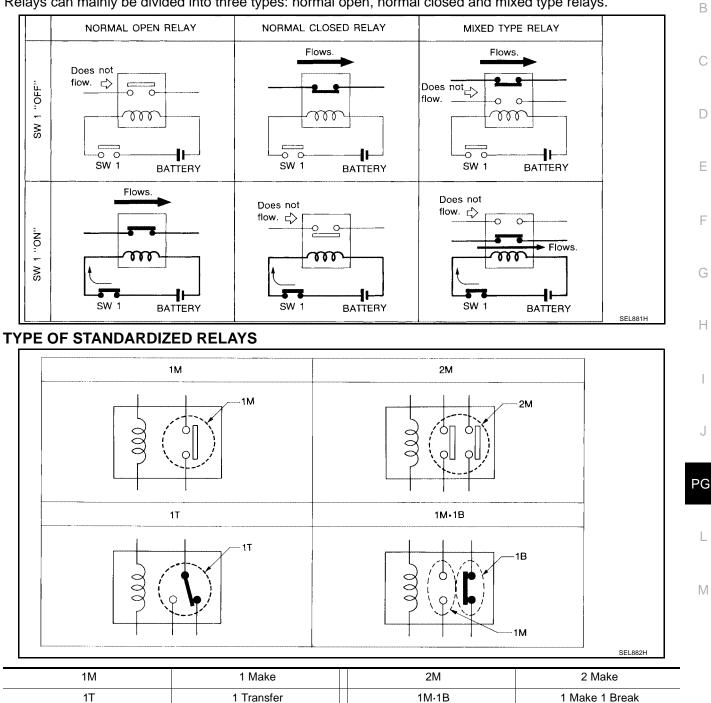
PFP:25230

EKS0064V

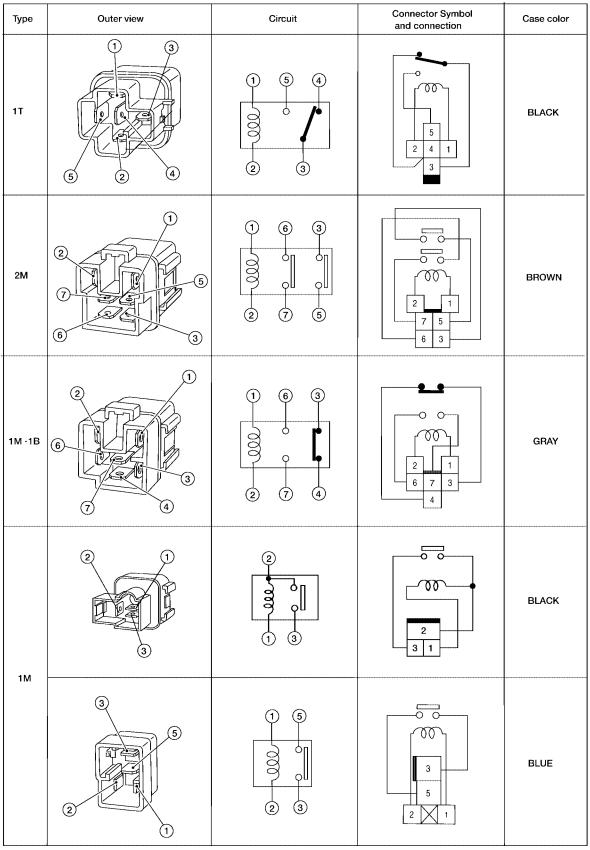
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Description NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



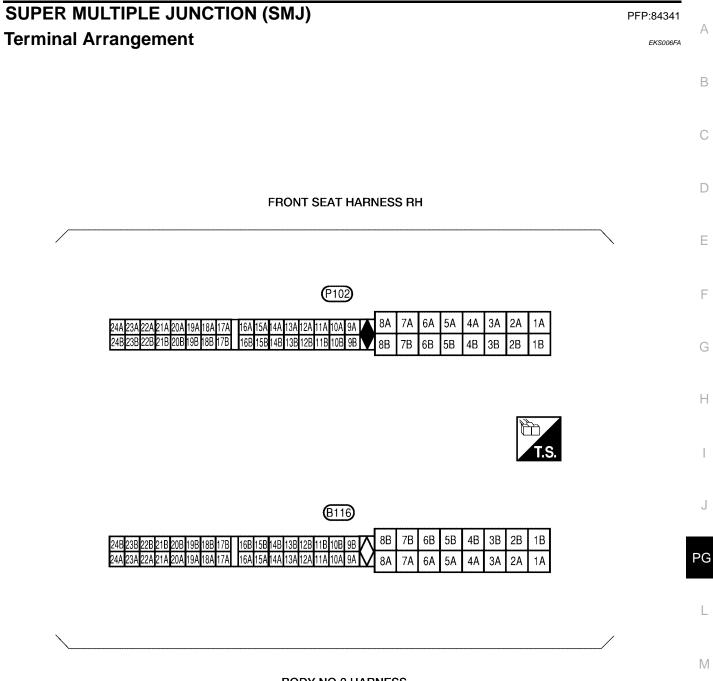
STANDARDIZED RELAY



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

WKIA0253E

SUPER MULTIPLE JUNCTION (SMJ)

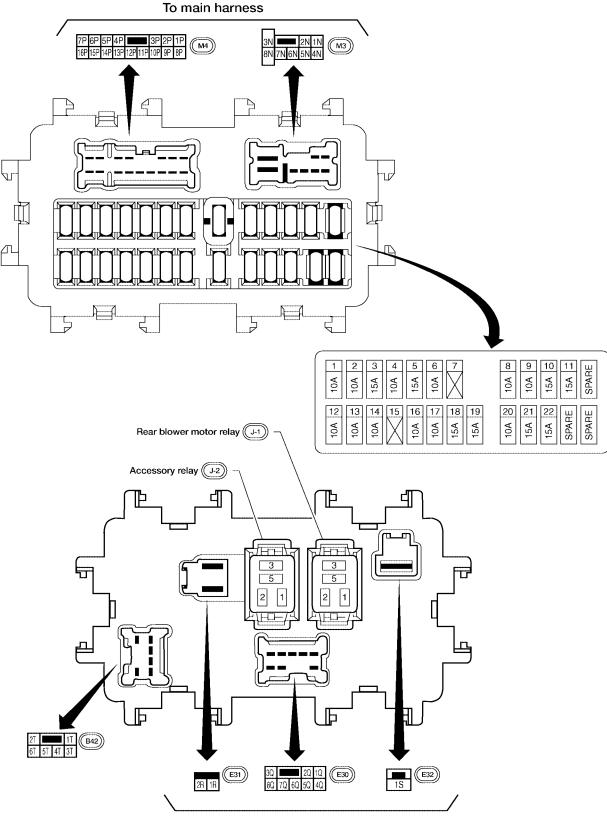


BODY NO.2 HARNESS

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FUSE BLOCK-JUNCTION BOX (J/B)

Terminal Arrangement



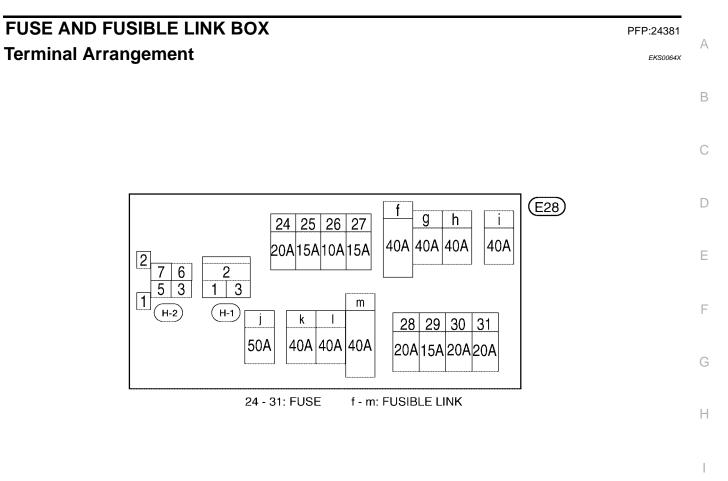
To engine room harness

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FUSE AND FUSIBLE LINK BOX



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