POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

PRECAUTIONS	reminals and Reference values for IPDIVI E/R	
Precautions for Supplemental Restraint System	IPDM E/R Power/Ground Circuit Inspection	29
(SRS) "AIR BAG" and "SEAT BELT PRE-TEN-	Inspection with CONSULT-II (Self-Diagnosis)	
SIONER" 3	Removal and Installation of IPDM E/R	31
POWER SUPPLY ROUTING CIRCUIT 4	REMOVAL	31
Schematic4	INSTALLATION	31
Wiring Diagram — POWER —6	GROUND CIRCUIT	32
BATTERY POWER SUPPLY — IGNITION SW.	Ground Distribution	32
IN ANY POSITION6	MAIN HARNESS	32
ACCESSORY POWER SUPPLY — IGNITION	ENGINE ROOM HARNESS	35
SW. IN ACC OR ON11	ENGINE CONTROL HARNESS	37
IGNITION POWER SUPPLY — IGNITION SW.	BODY HARNESS	38
IN ON12	BODY NO. 2 HARNESS	39
IGNITION POWER SUPPLY — IGNITION SW.	HARNESS	41
IN ON AND/OR START 13	Harness Layout	41
IGNITION POWER SUPPLY — IGNITION SW.	HOW TO READ HARNESS LAYOUT	
IN START 15	OUTLINE	42
Fuse 17	MAIN HARNESS	43
Fusible Link 17	ENGINE ROOM HARNESS (LH VIEW)	46
Circuit Breaker (Built Into BCM) 17	ENGINE ROOM HARNESS (RH VIEW)	48
Circuit Breaker (PTC) 17	ENGINE CONTROL HARNESS	50
PDM E/R (INTELLIGENT POWER DISTRIBUTION	BODY HARNESS AND TAIL HARNESS	52
MODULE ENGINE ROOM)18	BODY NO. 2 HARNESS AND BODY NO. 3 HAR-	-
System Description 18	NESS	
SYSTEMS CONTROLLED BY IPDM E/R 18	ROOM LAMP HARNESS	56
CAN COMMUNICATION LINE CONTROL 18	FRONT DOOR LH HARNESS	58
IPDM E/R STATUS CONTROL19	FRONT DOOR RH HARNESS	59
CAN Communication System Description 19	REAR DOOR LH HARNESS	60
Function of Detecting Ignition Relay Malfunction 19	REAR DOOR RH HARNESS	
CONSULT-II Function (IPDM E/R)20	Wiring Diagram Codes (Cell Codes)	
CONSULT-II START PROCEDURE 20	ELECTRICAL UNITS LOCATION	
SELF-DIAGNOSTIC RESULTS20	Electrical Units Location	
DATA MONITOR20	ENGINE COMPARTMENT	
CAN DIAG SUPPORT MNTR21	PASSENGER COMPARTMENT	
ACTIVE TEST 21	HARNESS CONNECTOR	
Auto Active Test22	Description	70
DESCRIPTION22	HARNESS CONNECTOR (TAB-LOCKING	
OPERATION PROCEDURE22	TYPE)	70
INSPECTION IN AUTO ACTIVE TEST MODE 23	HARNESS CONNECTOR (SLIDE-LOCKING	
IPDM F/R Terminal Arrangement 25		

В

D

Е

J

PG

TYPE)71	STANDARDIZED RELAY	75
HARNESS CONNECTOR (LEVER LOCKING		
TYPE)72	·	
HARNESS CONNECTOR (DIRECT-CONNECT		75
SRS COMPONENT TYPE)73		75
ELECTRICAL UNITS74	FUSE BLOCK-JUNCTION BOX (J/B)	77
Terminal Arrangement74	Terminal Arrangement	77
•	FUSE AND FUSIBLE LINK BOX	78
	Terminal Arrangement	78

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 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.

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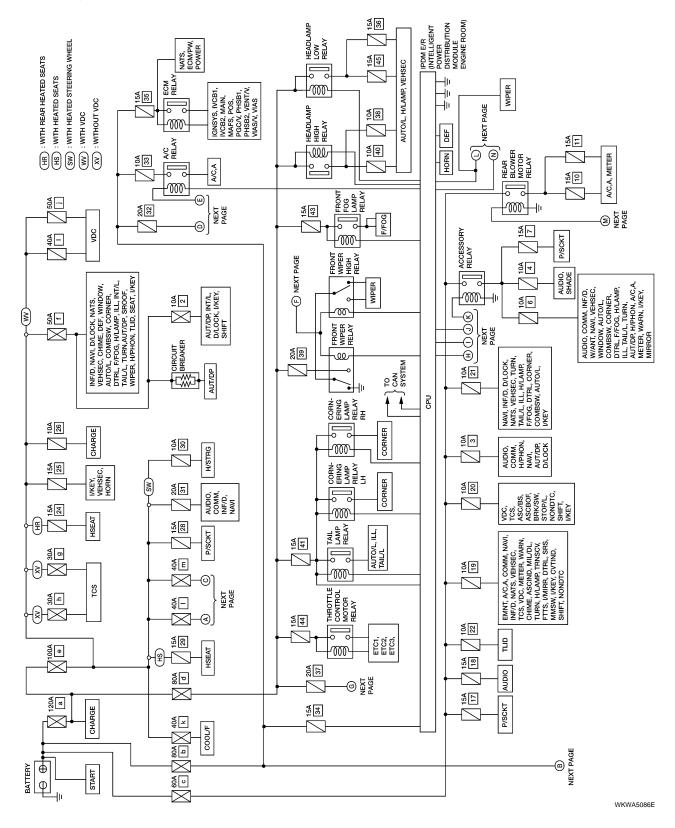
POWER SUPPLY ROUTING CIRCUIT

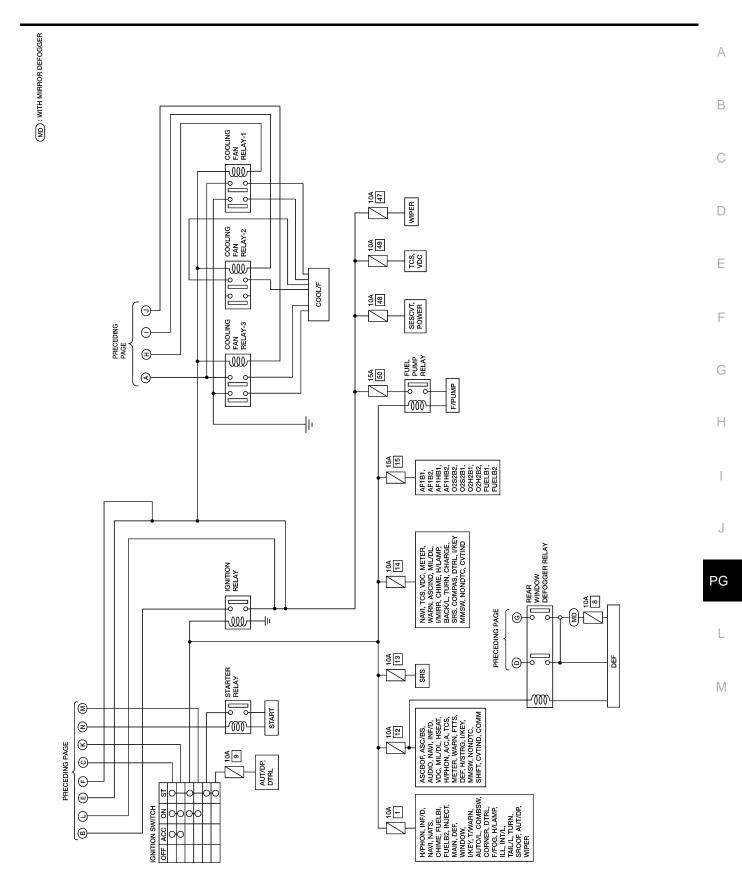
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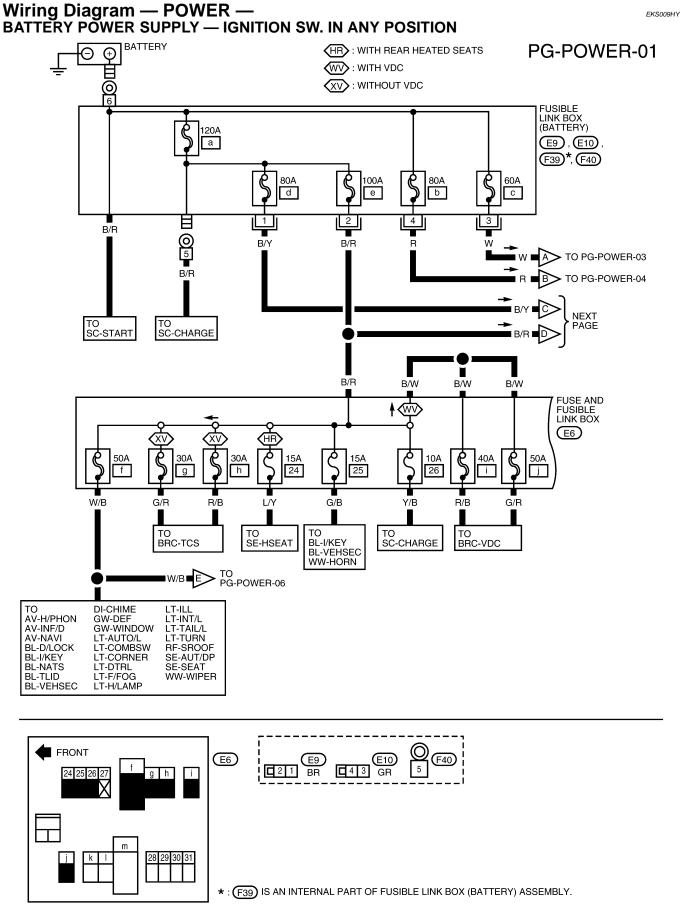
Schematic

For detailed ground distribution, refer to PG-32, "Ground Distribution".

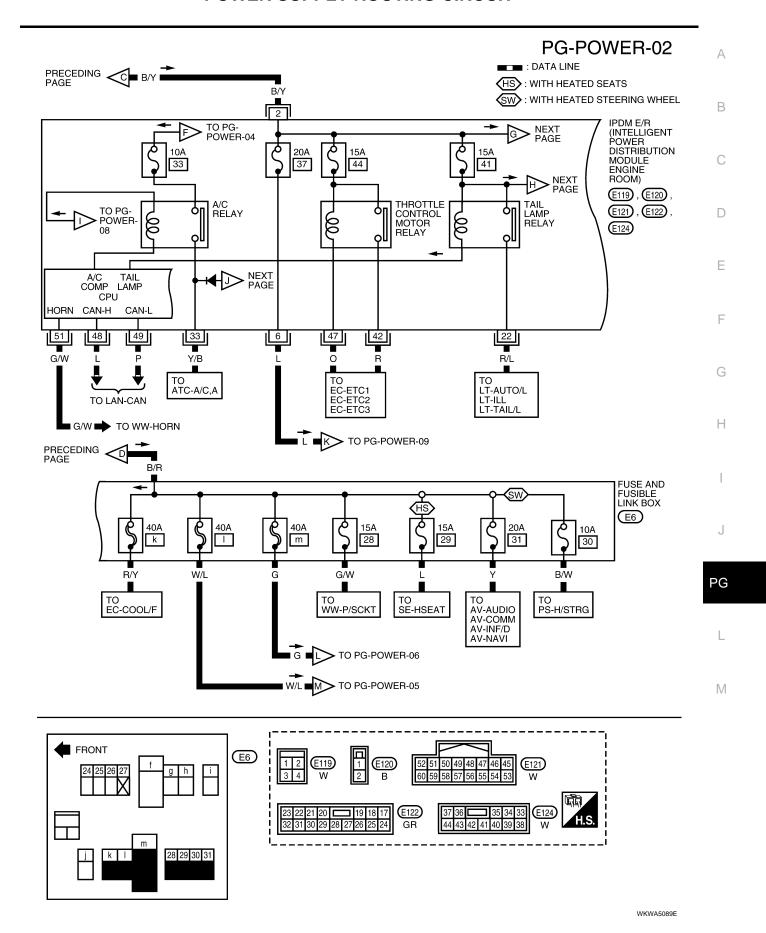


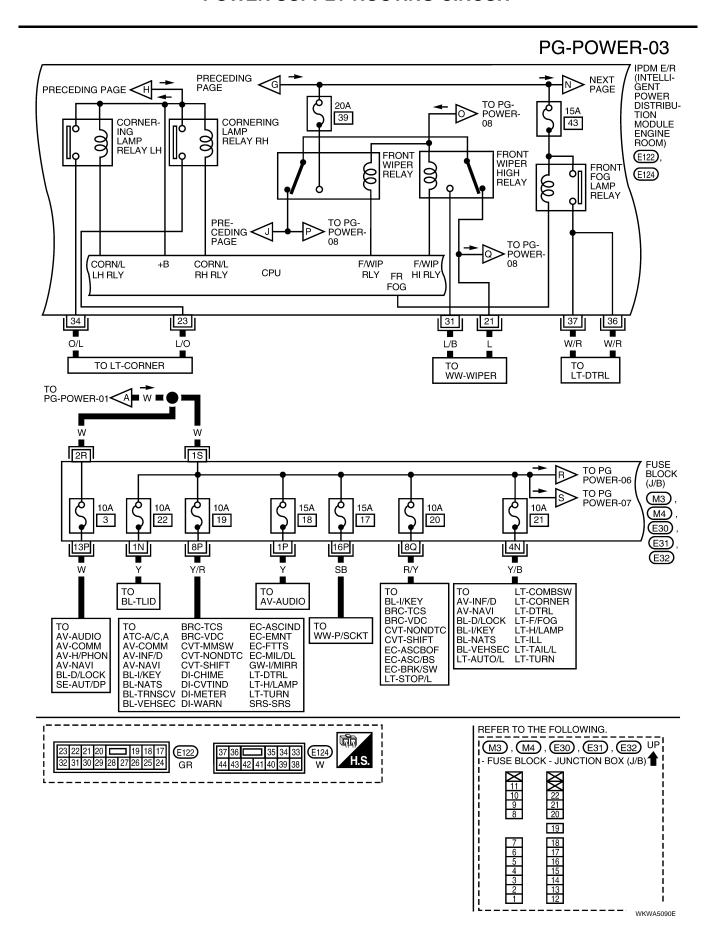


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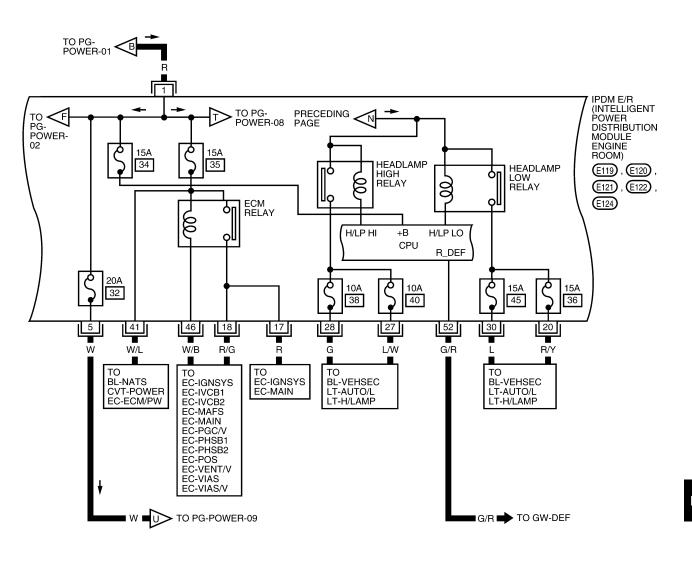


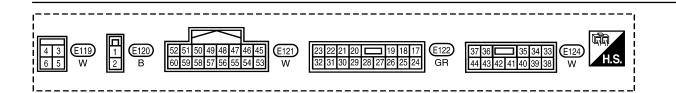
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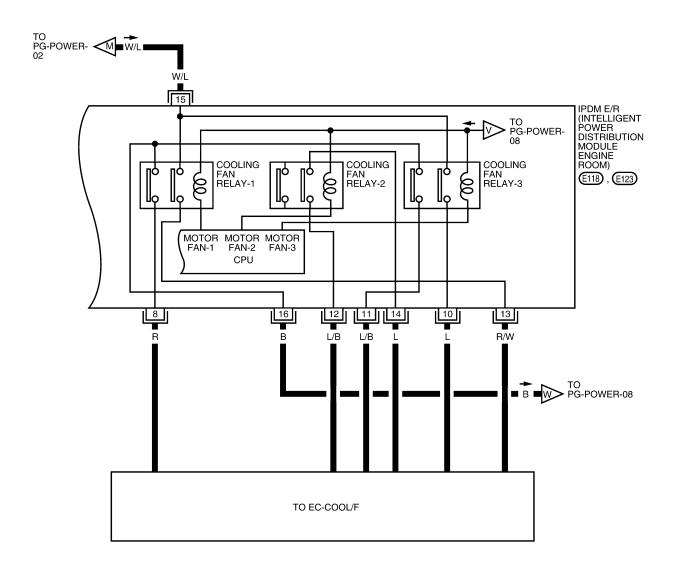
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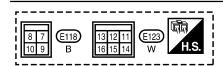
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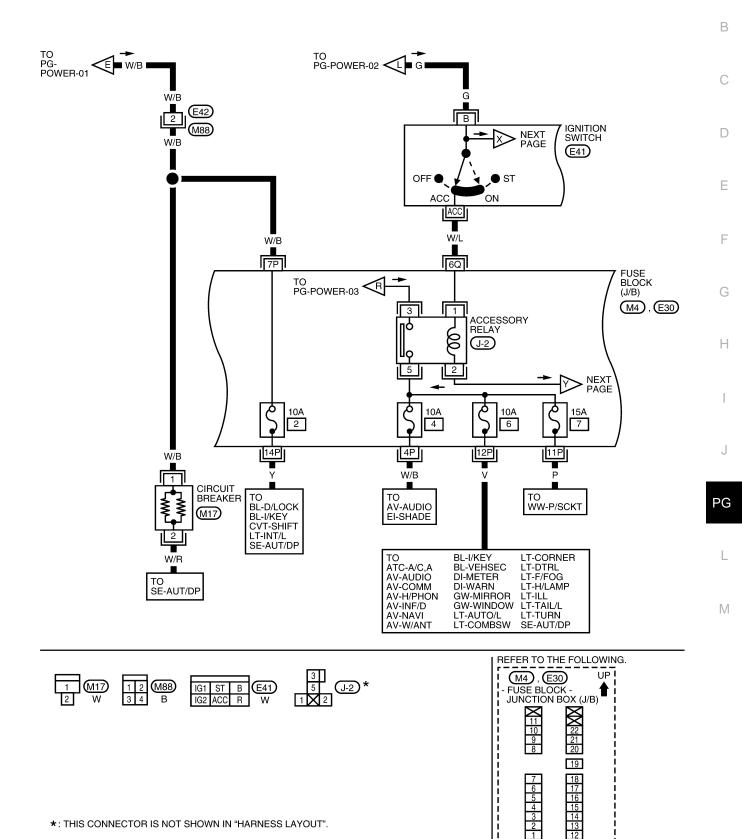
ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON

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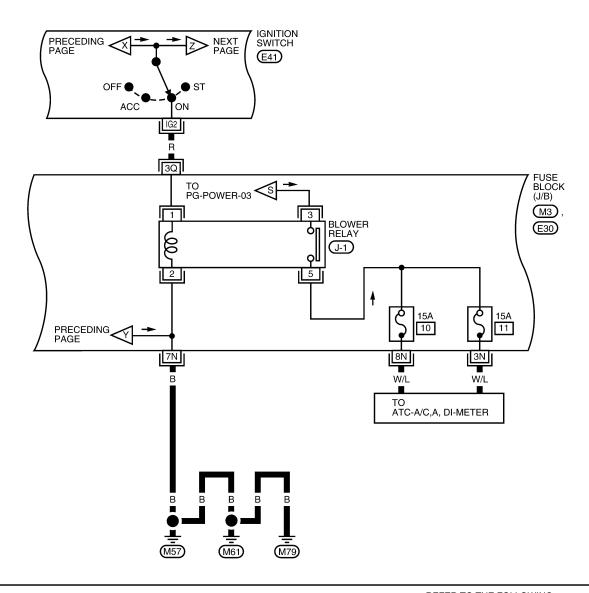
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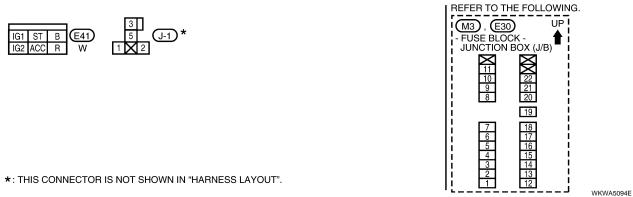


*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT".

IGNITION POWER SUPPLY — IGNITION SW. IN ON

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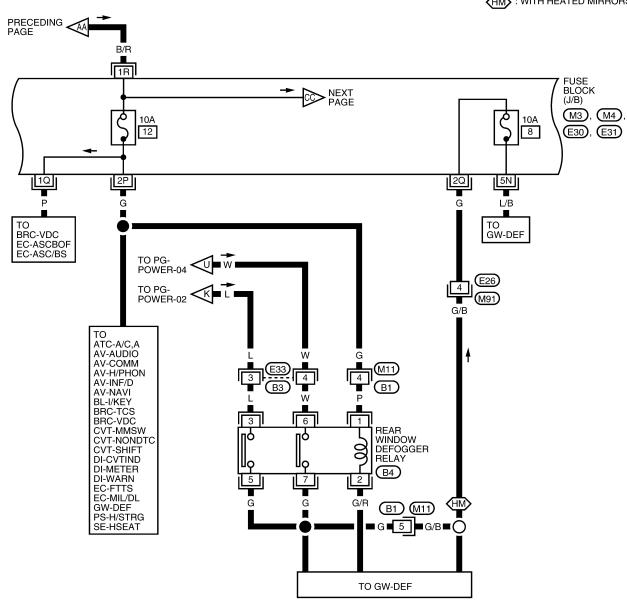


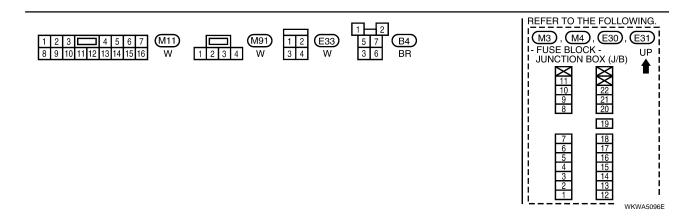
IGNITION POWER SUPPLY — IGNITION SW. IN ON AND/OR START Α PG-POWER-08 В IGNITION SWITCH PRECEDING PAGE TO PG-POWER-10 (E41) C ACC IGN [IG1] D B/R Е IPDM E/R (INTELLIGENT POWER DISTRIBUTION TO PG-TO PG-POWER-05 < POWER-04 **⋖** MODULE ENGINE ROOM) TO PG-POWER-03 IGNITION RELAY E118, E121 TO PG-POWER-02 (E122), (E124) Н WIP +IG 47 50 48 49 TO PG-POWER- ✓P AUTO-STOP CPU INHIB GND SW (SIGNAL) GND INHIB FUEL PUMP RELAY (POWER) 00 TO PG-POWER-60 L/Y R/W B/Y B/O GR PG TO EC-F/PUMP TO WW-WIPER ТО то CVT-SESCVT CVT-POWER BRC-TCS В B. В POWER-05 M (E24) **E**15 (E122) (E41) (E121)

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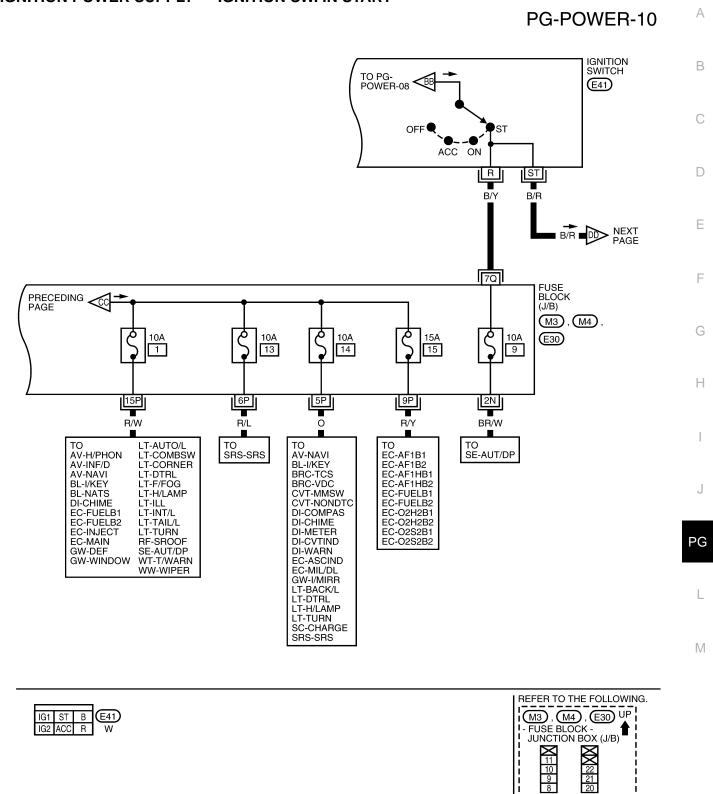
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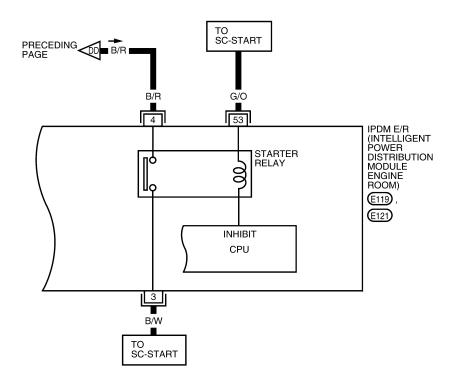


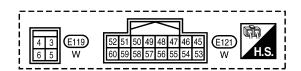
IGNITION POWER SUPPLY — IGNITION SW. IN START



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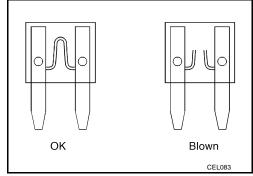


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Fuse

 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:

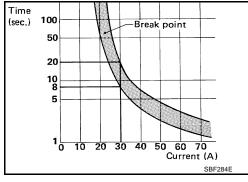
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of incident.
- Never wrap outside of fusible link with vinyl tape.
- Never let fusible link touch any other wiring harness,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

Circuit Breaker (Built Into BCM)

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

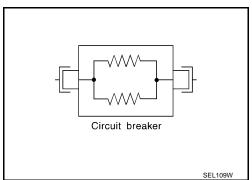
A circuit breaker is used for the following systems:

- Power seat
- Power windows
- Power sunroof



Circuit Breaker (PTC)

The PTC thermistor generates heat in response to current flow. The temperature (and resistance) of the thermistor element varies with current flow. Excessive current flow will cause the element's temperature to rise. When the temperature reaches a specified level, the electrical resistance will rise sharply to reduce the circuit current. This reduced current flow will cause the element to cool lowering the resistance accordingly. Once resistance falls to a specified level normal circuit current flow is allowed to resume.



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

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System Description

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- IPDM E/R (Intelligent Power Distribution Module Engine Room) integrates the relay box and fuse block which were originally placed in engine compartment. It controls integrated relays via IPDM E/R control circuit.
- IPDM E/R-integrated control circuit performs ON-OFF operation of relays, CAN communication control, oil pressure switch signal reception, etc.
- It controls operation of each electrical component via BCM and CAN communication lines.

CAUTION:

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

SYSTEMS CONTROLLED BY IPDM E/R

Lamp control

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

- Head lamps (High, Low)
- Parking lamps
- Tail lamps
- License plate lamps
- Cornering lamps
- Front fog lamps
- Daytime light system (Canada only)
- 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).
- Starter control
 - Using CAN communication lines, it receives signals from the BCM and controls the starter relay.
- 6. Cooling fan control
 - Using CAN communication lines, it receives signals from the ECM and controls the cooling fan relays.
- 7. 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
	With the ignition switch ON, the headlamp low relay is ON.
Headlamp	With the ignition switch OFF, the headlamp low relay is OFF.
	With the ignition switch ON or OFF, the headlamp high relay is OFF.
Tail and parking lamps	With the ignition switch ON, the tail lamp relay is ON.
Tail and parking lamps	With the ignition switch OFF, the tail lamp relay is OFF.

Controlled system	Fail-safe mode	
Cooling fan	 With the ignition switch ON, cooling fan relay 1 and 3 are ON and cooling fan operates at high speed. 	
-	With the ignition switch OFF, all cooling relays are OFF.	
Front wiper	Until the ignition switch is turned off, the front relays remain in the same status they were just before fail–safe control was initiated.	
Rear window defogger	Rear window defogger relay is OFF.	
A/C compressor	A/C relay is OFF (magnet clutch is OFF).	
Front fog lamps	Front fog lamp relay is OFF.	
Horn	Horn relay is OFF.	
Cornering lamps	Cornering lamp relays are OFF.	
Daytime lights (Canada only)	 With the ignition switch ON, daytime light output is activated (front fog lamp relay is ON) With the ignition switch OFF, daytime light output is OFF (front fog lamp relay is OFF). 	

IPDM E/R STATUS CONTROL

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

- 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.
- 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 sta-
 - When a change in ignition switch signal is detected, mode switches to CAN communication status.

CAN Communication System Description

Refer to LAN-4, "SYSTEM DESCRIPTION" .

Function of Detecting Ignition Relay Malfunction

When the integrated ignition relay is stuck in a "closed contact" position and cannot be turned OFF, IPDM E/R turns ON tail lamps, parking lamps, and daytime lights (Canada only) 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 and front fog lamp relay (Canada only).

Ignition switch signal	Ignition relay status	Tail lamp relay	Front fog lamp relay (Canada only)
ON	ON	_	_
OFF	OFF	_	_
ON	OFF	_	_
OFF	ON	ON (10 minutes)	ON (10 minutes)

When the ignition switch is turned ON, the relays are turned OFF.

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CONSULT-II Function (IPDM E/R)

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

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

CONSULT-II START PROCEDURE

Refer to GI-37, "CONSULT-II Start Procedure" .

SELF-DIAGNOSTIC RESULTS

Operation Procedure

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

Display Item List

Display items	CONSULT-II	Error return condition		ME	Possible causes
Diopidy items	display code	Error rotalii corialilori	CRNT	PAST	
NO DTC IS DETECTED. FUR- THER TESTING MAY BE REQUIRED.	_	_	_	_	_
CAN COMM CIRC	U1000	 If CAN communication reception/transmission data has an error, or if any of the control units fail, data reception/transmission cannot be confirmed. When the data in CAN communication is not received before the specified time. 	x	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).

- 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.
- 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	NSULT-II		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	=
Parking, license, and tail lamp request	TAIL&CLR REQ	ON/OFF	Х	Х	Х	Signal status input from BCM	_
Headlamp low request	HL LO REQ	ON/OFF	Х	Х	Х	Signal status input from BCM	_
Headlamp high request	HL HI REQ	ON/OFF	Х	Х	Х	Signal status input from BCM	_
Front fog lights request	FR FOG REQ	ON/OFF	Х	Х	Х	Signal status input from BCM	_
FR wiper request	FR WIP REQ	STOP/1LOW/LOW/ HI	Х	Х	Х	Signal status input from BCM	_
Wiper auto stop	WIP AUTO STOP	ACT P/STOP P	Х	Х	Х	Output status of IPDM E/R	_
Wiper protection	WIP PROT	OFF/LS/HS/Block	Х		Х	Control status of IPDM E/R	-
Starter request	ST RLY REQ	ON/OFF	Х		Х	Status of input signal *1	_
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 *2	OFF	Х		Х	Signal status input from IPDM E/R	
Theft warning horn request	THFT HRN REQ	ON/OFF	Х		Х	Signal status input from BCM	F
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	_

^{*1} 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.

CAN DIAG SUPPORT MNTR

Refer to LAN-4, "SYSTEM DESCRIPTION" .

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.

^{*2} This item is displayed, but does not function.

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	With a certain operation (OFF, ON), the cornering lamp relay (RH, LH) can be operated.
Horn output	HORN	With a certain ON-OFF operation, the horn relay can be operated.

Auto Active Test DESCRIPTION

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- In auto active test mode, operation inspection can be performed when IPDM E/R sends a drive signal to the following systems:
- Rear window defogger
- Front wipers
- Tail, license plate, and parking lamps
- Cornering lamps
- Front fog lamps
- Headlamps (High, Low)
- A/C compressor (magnet 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:

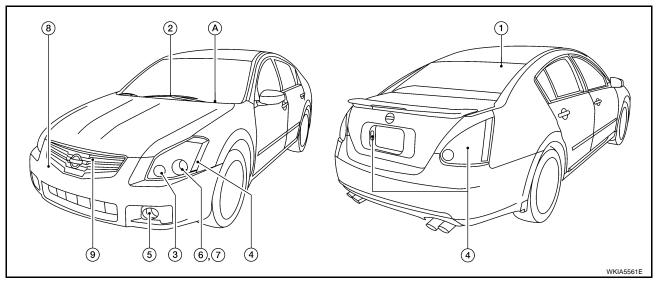
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

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

INSPECTION IN AUTO ACTIVE TEST MODE

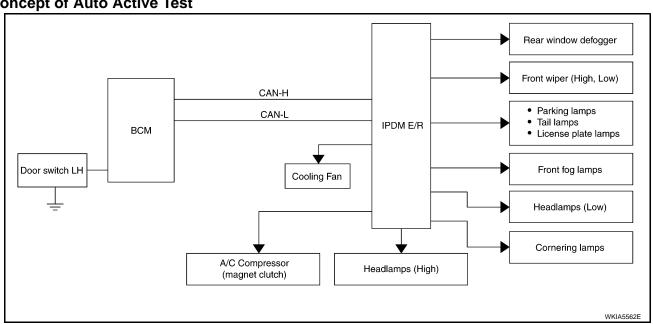
When auto active test mode is actuated, the following nine steps are repeated three times.



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

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



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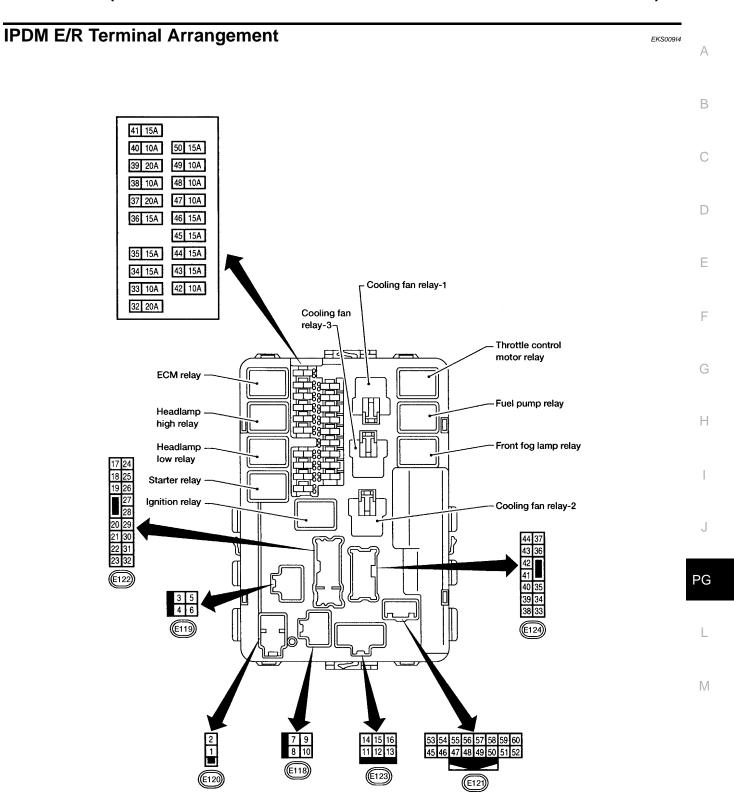
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- IPDM E/R actuates auto active test mode when it receives door switch signal from BCM via CAN communication line. Therefore, when auto active test mode is activated successfully, CAN communication between IPDM E/R and BCM is normal.
- If any of the 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 system		
Any of front wipers, tail and parking lamps, front fog lamps, cornering lamps, and head lamps (Hi, Lo) do not operate.	Perform auto active test. Does system in question operate?	NO	 Lamp/wiper motor malfunction Lamp/wiper motor ground circuit malfunction Harness/connector malfunction between IPDM E/R and system in question IPDM E/R (integrated relay) malfunction 		
		YES	BCM signal input circuit		
Rear window defogger does not operate.	Perform auto active test. Does rear window defogger operate?	NO	 Rear window defogger relay circuit Open circuit of rear window defogger Harness/connector malfunction between IPDM E/R and system in question IPDM E/R malfunction 		
A/C compressor does	Perform auto active test. Does magnetic clutch operate?	YES	 BCM signal input circuit CAN communication signal between BCM and ECM CAN communication signal between ECM and IPDM E/R 		
not operate.		NO	 Magnet clutch malfunction Harness/connector malfunction between IPDM E/R and magnet clutch IPDM E/R (integrated relay) malfunction 		
	Perform auto active test. Does cooling fan operate?	YES	ECM signal input circuit CAN communication signal between ECM and IPDM E/R		
Cooling fan does not operate.		NO	 Cooling fan motor malfunction Harness/connector malfunction between IPDM E/R and cooling fan motor IPDM E/R (integrated relay) malfunction 		
Oil pressure warning	Perform auto active test. Does oil pres-	YES	Harness/connector malfunction between IPDM E/R and oil pressure switch Oil pressure switch malfunction		
lamp does not operate.	sure warning lamp blink?	NO	 CAN communication signal between BCM and Unified Meter and A/C Amp. Combination meter 		



WKIA5563E

Terminals and Reference Values for IPDM E/R

KS0018G

			Signal	Measuring condition				
Terminal	Wire color	Signal name	input/ output	Ignition switch		or condition	Reference value (Approx.)	
1	R	Battery power supply	Input	OFF	_		Battery voltage	
2	B/Y	Battery power supply	Input	OFF	_	_	Battery voltage	
3	B/W	Starter motor	Output	START		_	Battery voltage	
4	B/R	lanition switch	Innut		OFF or ACC or	ON	0V	
4	D/K	Ignition switch	Input	_	START		Battery voltage	
5	W	Rear window defog- ger relay	Output	_	_	_	Battery voltage	
6	L	Rear window defog- ger relay	Output	_		_	Battery voltage	
7	B/R	Ignition switch sup-	Input	_	OFF or ACC		0V	
,	D/IX	plied power	mpat		ON or START		Battery voltage	
8	R	Cooling fan motor low	Input		Conditions met operation in HI	-	0V	
O	IX.	1	mpat		Cooling fan op LOW-MID	eration OFF-	Battery voltage	
10	L	Cooling fan motor	Outrast		Conditions met for cooling fan operation in MID-HIGH		Battery voltage	
10	_	high 2	Output	_	Cooling fan operation OFF- LOW		0V	
44	Cooling fan moto	Cooling fan motor	lanut		Conditions met for cooling fan operation in MID-HIGH		OV	
11 L/B	high 1	Input	_	Cooling fan operation OFF- LOW		Less than battery voltage		
12	12 L/B Cooling fan n	Cooling fan motor	Input		Conditions met for cooling fan operation in LOW		Battery voltage	
ground 2		ground 2	Input	_	Cooling fan op MID-HIGH	eration OFF-	0V	
13	R/W Cooling fan motor low		Output		Conditions met operation in HI		Battery voltage	
10	10,00	2	Output		Cooling fan operation OFF- LOW-MID		0V	
14	L	Cooling fan motor	Output	_	Conditions met for cooling fan operation in LOW		Less than battery voltage	
1 T		ground	Jaipai		Conditions met operation in Of	for cooling fan FF-MID-HIGH	0V	
15	W/L	Battery power supply	Input	_	_		Battery voltage	
16	В	Ground	Input	_	_		0V	
17	R	ECM Relay	Output	_	Ignition switch		Battery voltage	
			Calput		Ignition switch OFF or ACC		0V	
18	18 R/G ECM relay		M relay Output		Ignition switch ON or START		Battery voltage	
-		-	T - "		Ignition switch		0V	
20	R/Y	RH Low beam head- lamp	Output	_	Lighting switch in 2nd position or auto light system active		Battery voltage	
21	L	Wiper low speed sig- nal	Output	ON or START	Wiper switch OFF-HIGH LOW-INT operation		0V Battery voltage	

T Wire			Signal		Measuring cond	dition	Reference value
Terminal	color	Signal name	input/ output	Ignition switch	Operation	or condition	(Approx.)
22	R/L	Rear parking, license plate, and tail lamp	Output	_	Lighting switch in 2nd position or auto light sys- tem active	ON	0V Battery voltage
23	L/O	RH Cornering lamp	Output	ON or START	Lighting switch ON or auto light system active and turn signal switch in the RIGHT position		Battery voltage
26	Υ	TCM ignition supply	Output		Ignition switch		Battery voltage 0V
27	L/W	RH High beam head- lamp	Output	_	-	in 2nd position	Battery voltage
28	G	LH High beam head- lamp	Output	_	Lighting switch in 2nd position or auto light system active and placed in HIGH or PASS position		Battery voltage
30	L	LH Low beam head- lamp	Output	_	Lighting switch in 2nd position or auto light system active		Battery voltage
31	L/B	Wiper high speed sig-	Output	ON or START	Wiper switch	OFF-LOW- INT	0V
		Ilai		SIAKI		HIGH	Battery voltage
32	L/Y	Wiper auto stop signal	Input	ON or	Wipers not in p	ark position	Battery voltage
32 L/1	Tipor auto stop signal	iiiput	START	Wipers in park position		0V	
33	Y/B	A/C compressor	Output	ON or	A/C switch or auto A/C request ON A/C switch or auto A/C request OFF		Battery voltage
	.,_	, v o compressor	Carpar	START			0V
34	O/L	LH Cornering lamp	Output	ON or START	Lighting switch ON or auto light system active and turn signal switch in the LEFT position		Battery voltage
36	W/R	Front fog lamp (RH)	Output	ON or START	Lighting switch in 2ND position or auto light sys- tem active and combina- tion switch in LOW posi- tion and the front fog lamp switch	OFF	0V Battery voltage
37	W/R	Front fog lamp (LH)	Output	ON or START	Lighting switch in 2ND position or auto light sys- tem active and combina- tion switch in LOW posi- tion and the front fog lamp switch	OFF	0V Battery voltage

Revision: May 2006 PG-27 2007 Maxima

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Wire			Signal		Measuring condition	Deference	
Terminal	Ferminal color Signal name		input/ output	Ignition switch	Operation or condition	Reference value (Approx.)	
38	В	Ground	Input	_	_	0V	
20	DA	Fuel numer	O. idea i id		Ignition switch ON or START	Battery voltage	
39	B/Y	Fuel pump	Output	_	Ignition switch OFF or ACC	0V	
40	В/О	Fuel pump relay control	Input	_	Ignition switch ON or START and ECM control conditions met	0V	
					Ignition switch OFF or ACC	Battery voltage	
41	W/L	Battery power supply	Output	_	_	Battery voltage	
42 R Throttle control motor	Throttle control motor relay	Output	_	Ignition switch ON or START and ECM control conditions met	Battery voltage		
					Ignition switch OFF or ACC	0V	
42	GR	ABS unit ignition sup-	Output		Ignition switch ON or START	Battery voltage	
43	GK	ply	Output	_	Ignition switch OFF or ACC	0V	
4.4	DAM	Washer motor ignition			Ignition switch ON or START	Battery voltage	
44	R/W	supply	Output	_	Ignition switch OFF or ACC	0V	
46 W/B ECM relay control		Input	_	Ignition switch ON or START and ECM control conditions met	0V		
				Ignition switch OFF or ACC	Battery voltage		
47	0	Throttle control motor relay control	Input	_	Ignition switch ON or START and ECM control conditions met	0V	
					Ignition switch OFF or ACC	Battery voltage	
48	L	CAN-H	_	_	_	_	
49	Р	CAN-L	_	_	_	_	
50	В	Ground	Input		_	0V	
51	G/W	Horn relay control	Output	_	Horn or horn chirp request received over CAN	OV	
31	G/VV		Output		No request message or net- work not functioning	Battery voltage	
52 G/R	Rear window defog- ger relay control	Input	ON or START	Rear window defogger switch: ON	0V		
				Rear window defogger switch: OFF	Battery voltage		
	Otantan nala (* 1.3.5		ON	Selector lever in "P" or "N"	Battery voltage		
53	G	Starter relay (inhibit switch)	Input	ON or START	Selector lever any other position	OV	
57	P/L	Oil pressure switch	Input	ON or START	_	Battery voltage	
60	В	Ground	Input	_	_	0V	

IPDM E/R Power/Ground Circuit Inspection

1. FUSE AND FUSIBLE LINK INSPECTION

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

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

OK or NG

OK >> GO TO 2.

NG >> Replace fuse or fusible link.

2. POWER CIRCUIT INSPECTION

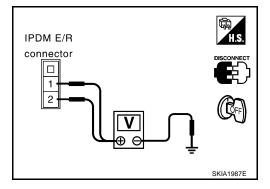
- 1. Disconnect IPDM E/R harness connector E120.
- 2. Check voltage between IPDM E/R harness connector E120 terminals 1, 2 and ground.

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

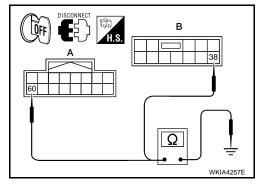
- 1. Disconnect IPDM E/R harness connectors E121 and E124.
- Check continuity between IPDM E/R harness connector E121 (A) terminal 60, E124 (B) terminal 38 and ground.

Continuity should exist

OK or NG

OK >> Inspection End.

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



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Revision: May 2006 PG-29 2007 Maxima

Inspection with CONSULT-II (Self-Diagnosis)

EKS00916

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 "Select System" screen.
- 2. Select "SELF-DIAG RESULTS" on the "SELECT DIAG MODE" screen.
- 3. Check display content in self-diagnosis results.

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

NOTE:

The Details for Display for the Period are as follows:

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

Contents displayed

NO DTC DETECTED. FURTHER TESTING MAY BE REQUIRED.>>Inspection End. CAN COMM CIRC>>Print out the self diagnosis results and refer to LAN-7, "TROUBLE DIAGNOSIS".

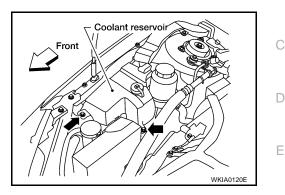
Removal and Installation of IPDM E/R REMOVAL

EKS00917

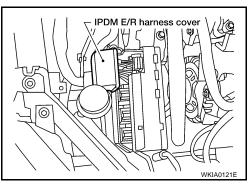
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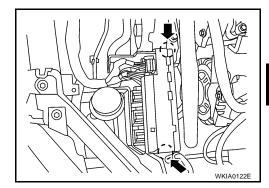
- 1. Disconnect negative battery cable.
- 2. Remove engine side cover RH.
- 3. Remove 2 bolts and position coolant reservoir aside.
- 4. Remove IPDM E/R upper cover.



5. Remove IPDM E/R harness cover.



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



INSTALLATION

Installation is in the reverse order of removal.

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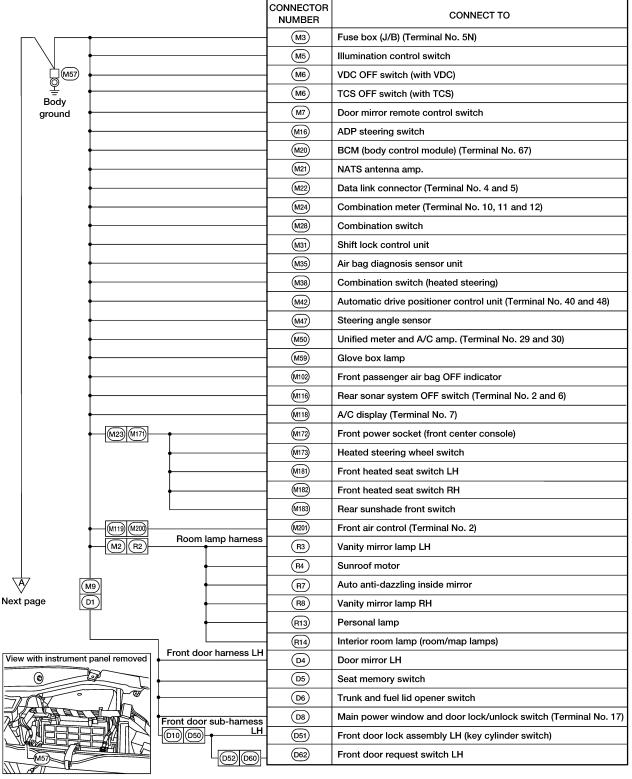
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Revision: May 2006 PG-31 2007 Maxima

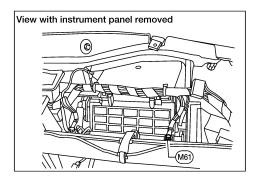
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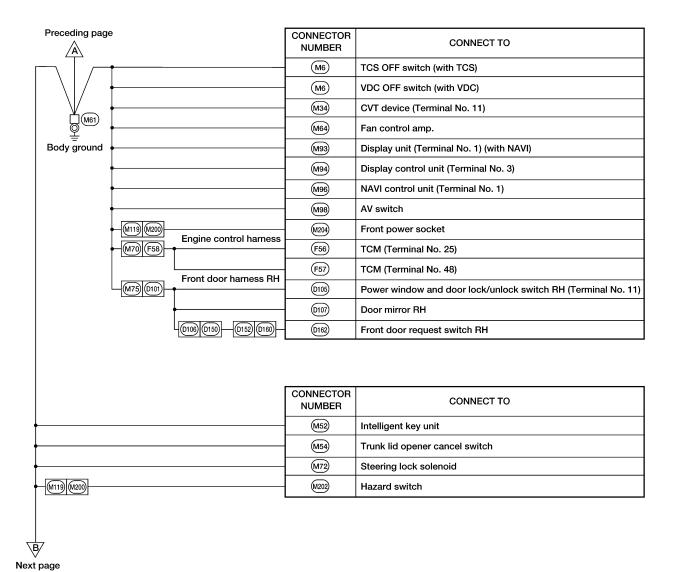
Ground Distribution MAIN HARNESS

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WKIA5538E





WKIA5539E

Revision: May 2006 PG-33 2007 Maxima

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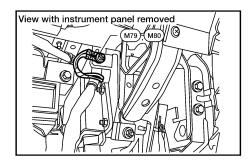
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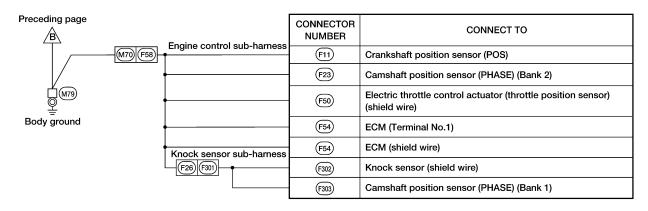
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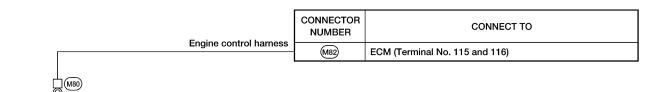
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Engine ground





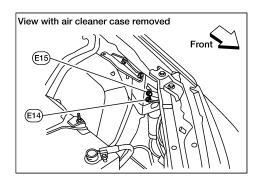
WKIA5540E

ENGINE ROOM HARNESS

<u></u>□ (E14)

Body ground

Next page



CONNECTOR NUMBER	CONNECT TO
E 4	Crash zone sensor (shield wire)

Body ground

CONNECT TO			
Front combination lamp LH (Terminal No. 4)			
Front combination lamp LH (Terminal No. 8)			
Front combination lamp LH (Terminal No. 10)			
Front combination lamp LH (Terminal No. 12)			
Brake fluid level switch			
Front wiper motor			
Front fog lamp LH			

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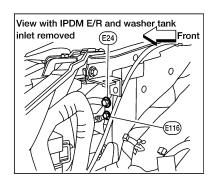
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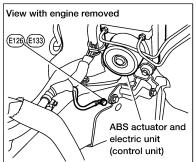
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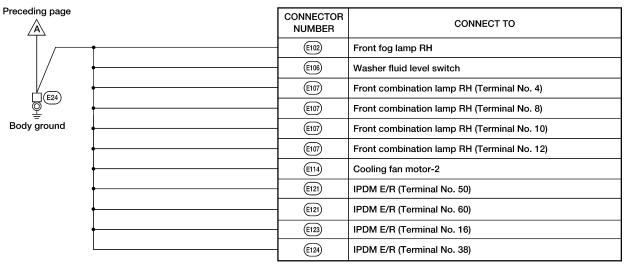
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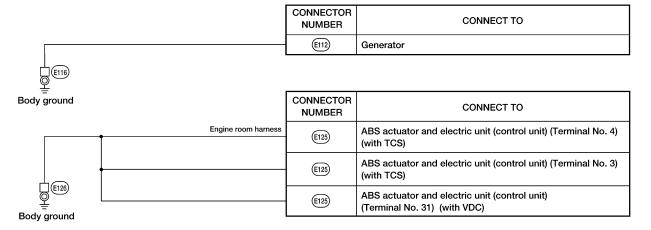
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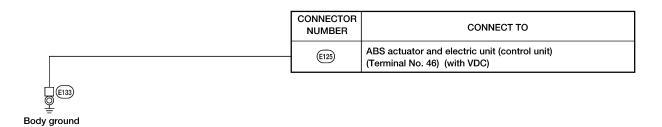
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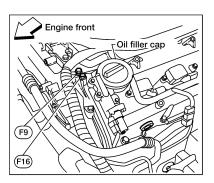






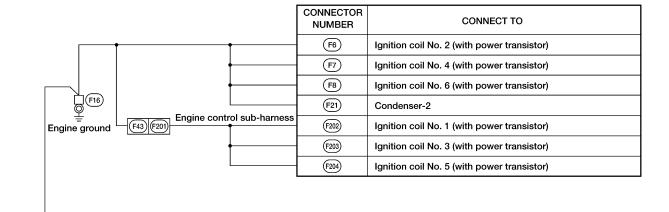
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ENGINE CONTROL HARNESS



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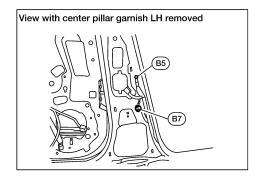
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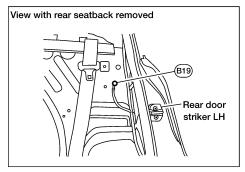
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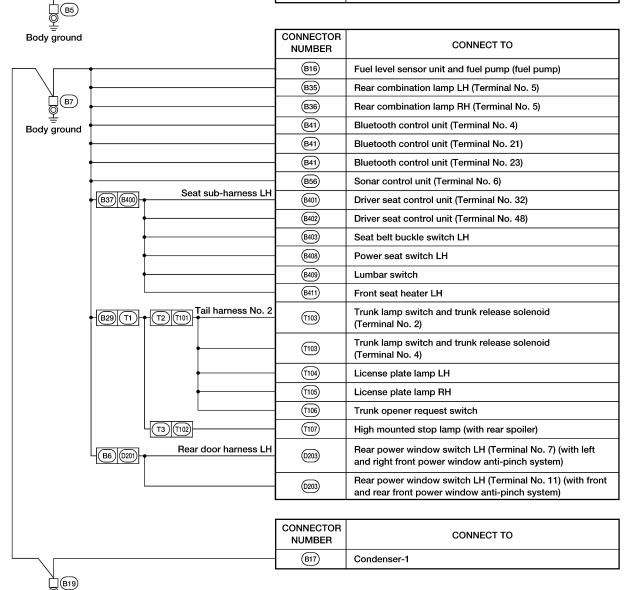
BODY HARNESS

Body ground



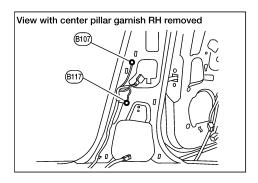


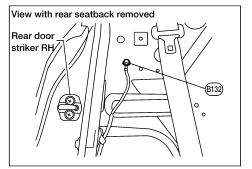
	CONNECTOR NUMBER	CONNECT TO
ſ	B15)	LH side air bag (satellite) sensor (shield wire)



WKIA5543E

BODY NO. 2 HARNESS





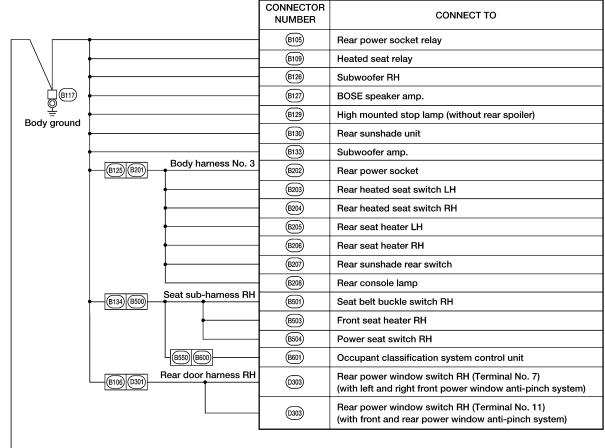
CONNECTOR NUMBER	CONNECT TO
B114)	RH side air bag (satellite) sensor (shield wire)

B107

Body ground

□ B132

Body ground



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Revision: May 2006 PG-39 2007 Maxima

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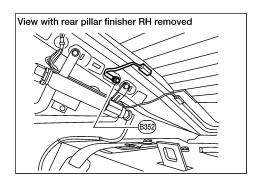
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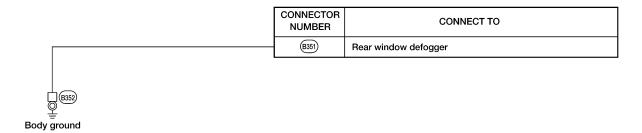
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HARNESS PFP:24010

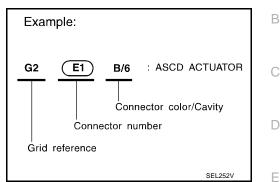
Harness Layout HOW TO READ HARNESS LAYOUT

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

- Main Harness and Console Sub-harness
- Engine Room Harness (LH View) Engine Compartment
- Engine Room Harness (RH View) Engine Compartment
- Engine Control Harness, Engine Control Sub-harness-1, Engine Control Sub-harness-2, Engine Control Sub-harness-3.
- Body Harness and Tail Harness
- Body No. 2 Harness and Body No. 3 Harness
- Room Lamp Harness

To use the grid reference

- 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.



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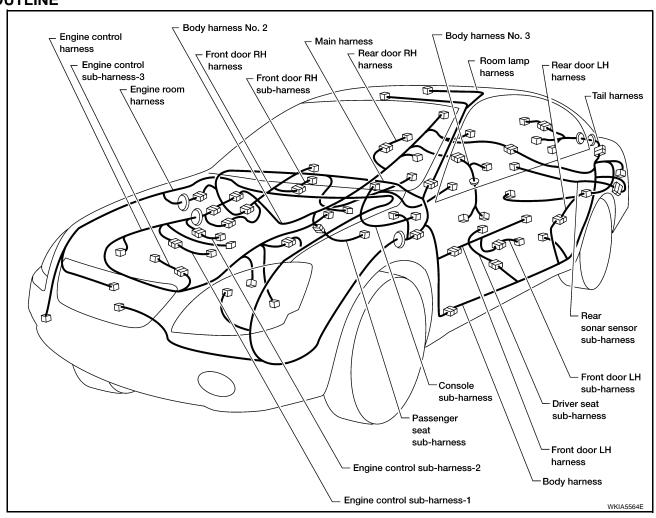
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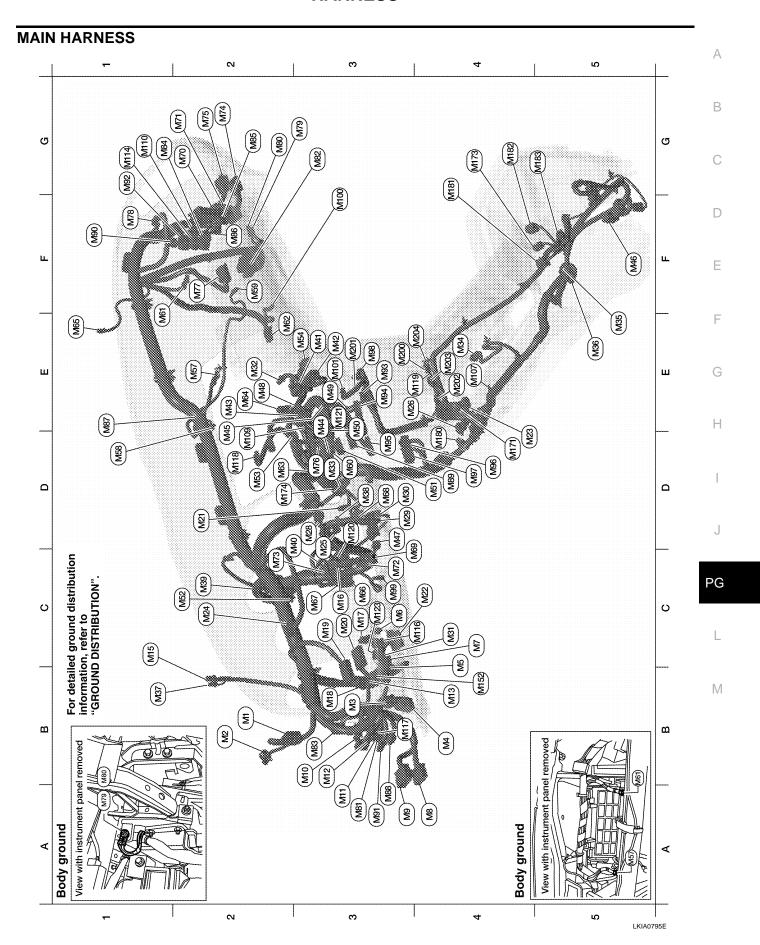
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OUTLINE





it (with NAVI) it (with NAVI)
side/decel G sensor
angle sensor
neter and A/C amp.
neter and A/C amp.
it (without NAVI)
t key unit
it (without BOSE)
it (with BOSE)
opener cancel switch
und
or motor
x lamp
it (without NAVI)
und
otor
it
rol amp.
sensor
ic motor
ic motor
•
•
lock solenoid
ch and ignition knob switch
nt panel antenna
ssenger air bag module
keyless entry receiver gent key)
und
und
oor motor (passenger)

В3	M88	B/4	: To E42	D2	M118	W/12	: A/C display
D4	M89	W/24	: Unified meter and A/C amp.	E3	M119	W/16	: To M200
F1	M90	W/16	: To E25	D3	M120	W/4	: Remote keyless entry receiver (for tire pressure warning)
А3	M91	W/4	: To E26	E3	M121	GR/2	: NAVI control unit
G1	M92	W/12	: To E131	СЗ	M123	W/2	: Tire pressure warning check connector
E3	M93	W/24	: Display unit (with NAVI)	B4	M152	B/2	: Resistor-1
E3	M94	W/24	: Display control unit (with NAVI)	D4	M171	W/18	: To M23
D3	M95	W/32	: Display control unit (with NAVI)	G4	M173	B/2	: Heated steering wheel switch
D4	M96	W/40	: NAVI control unit (with NAVI)	D2	M174	GR/2	: Front console antenna
D4	M97	W/32	: NAVI control unit (with NAVI)	D4	M180	W/16	: To M26
E3	M98	W/16	: AV switch	F4	M181	W/6	: Front heated seat switch LH
C3	M99	W/2	: Foot lamp LH	G4	M182	BR/6	: Front heated seat switch RH
F3	M100	W/2	: Foot lamp RH	G5	M183	W/6	: Rear sunshade switch front (with rear sunshade)
E3	M101	W/3	: Front passenger air bag off indicator	Con	sole sub-	-harness	
E4	M107	BR/2	: CVT device	E3	M200	W/16	: To M119
D2	M109	W/12	: Audio unit	E3	M201	W/12	: Front air control
G1	M110	BR/12	: To B136	E4	M202	W/4	: Hazard switch
G1	M114	W/24	: To B40	E4	M203	W/4	: Aux-jack
G3	M116	GR/8	: Rear sonar system off switch	E3	M204	B/3	: Front power socket
В3	M117	B/2	: Sonar buzzer				

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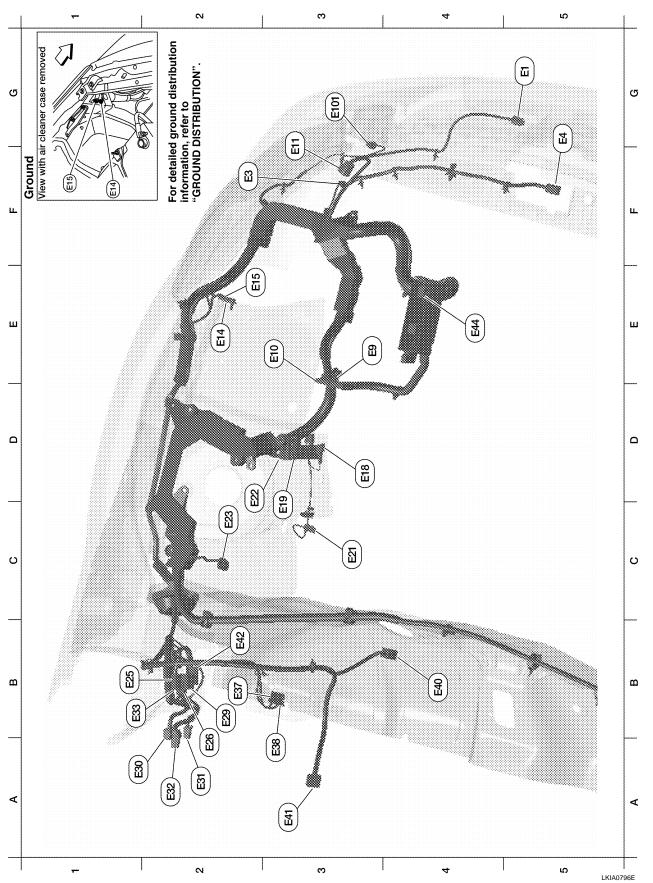
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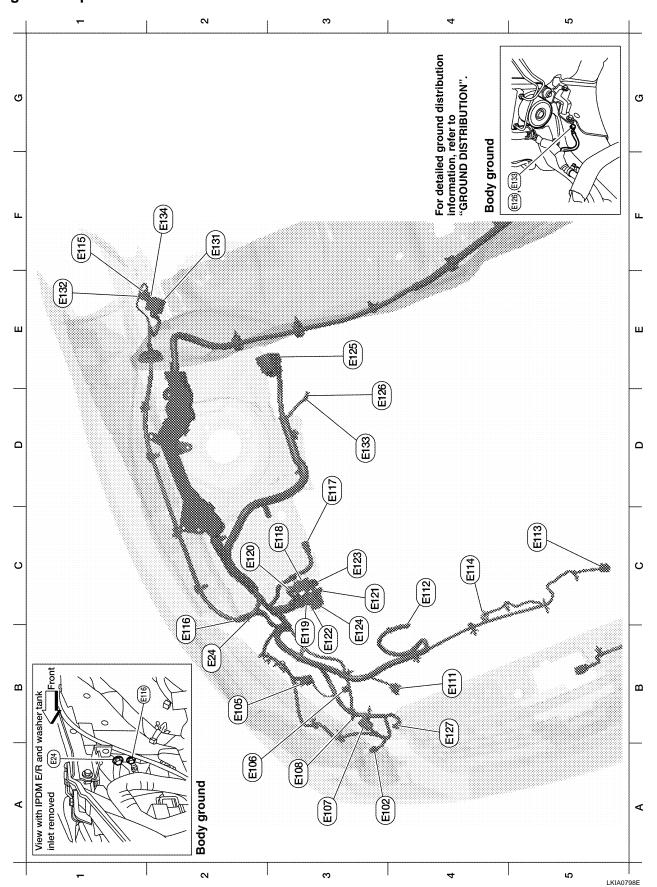
ENGINE ROOM HARNESS (LH VIEW) Engine Compartment



Refer to $\underline{\sf PG-48}$, $\underline{\sf "ENGINE\ ROOM\ HARNESS\ (RH\ VIEW)"}$ for continuation of engine room harness.

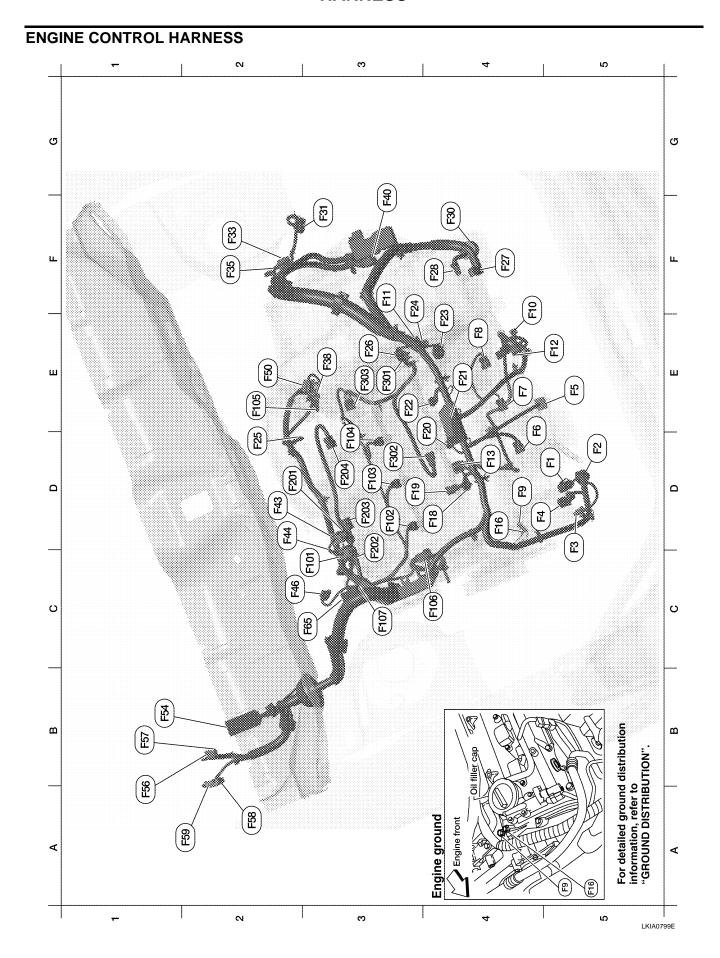
G5	E1	B/2	: Ambient sensor	Δ
F2	E3	B/1	: Horn (low)	А
G5	E4	Y/2	: Crash zone sensor	
E3	E9	BR/2	: Fusible link box (battery)	В
E2	E10	GR/2	: Fusible link box (battery)	
G3	E11	GR/12	: Front combination lamp LH	
E2	E14	_	: Body ground	
E2	E15	_	: Body ground	
D3	E18	B/2	: Front wheel sensor LH	D
С3	E19	GR/9	: To F33	
C3	E21	GR/2	: Brake fluid level switch	
D2	E22	GR/2	: To F35	Е
C2	E23	GR/6	: Front wiper motor	
B1	E25	W/16	: To M90	F
B2	E26	W/4	: To M91	
B2	E29	Y/4	: To M10	
A1	E30	W/8	: Fuse block J/B	G
A2	E31	B/2	: Fuse block J/B	
A2	E32	B/1	: Fuse block J/B	Н
B1	E33	W/4	: To B3	
B2	E37	BR/2	: ASCD brake switch	
А3	E38	B/2	: Stop lamp switch	
B4	E40	B/6	: Accelerator pedal position sensor	
А3	E41	W/6	: Ignition switch	
B2	E42	B/4	: To M88	J
E4	E44	L/4	: Back-up lamp relay	
G3	E101	B/2	: Front fog lamp LH	PG

ENGINE ROOM HARNESS (RH VIEW) Engine Compartment



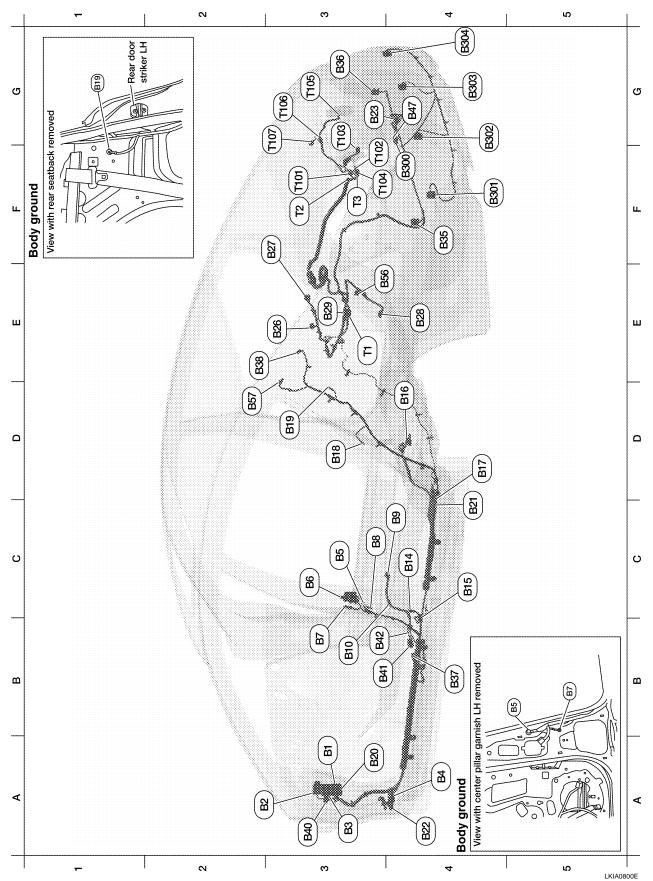
Refer to $\underline{\sf PG-46}$, $\underline{\sf "ENGINE\ ROOM\ HARNESS\ (LH\ VIEW)"}$ for continuation of engine room harness.

B2	E24	_	: Body ground			1
А3	E102	B/2	: Front fog lamp RH			ı
B2	E105	GR/2	: Front washer motor			
A2	E106	BR/2	: Washer fluid level switch			E
А3	E107	GR/12	: Front combination lamp RH			
А3	E108	B/1	: Horn (high)			
B4	E111	B/3	: Refrigerant pressure sensor			(
C4	E112	_	: Generator (ground)			·
C5	E113	GR/4	: Cooling fan motor-1			
C4	E114	GR/4	: Cooling fan motor-2			·
F1	E115	W/2	: To B111			
B2	E116	_	: Body ground			E
D3	E117	GR/2	: Front wheel sensor RH			
C3	E118	B/4	: IPDM E/R (intelligent power distri- bution module engine room)			F
В3	E119	W/4	: IPDM E/R (intelligent power distri- bution module engine room)			
C2	E120	B/2	: IPDM E/R (intelligent power distribution module engine room)			(
C3	E121	W/16	: IPDM E/R (intelligent power distribution module engine room)			ŀ
В3	E122	GR/16	: IPDM E/R (intelligent power distribution module engine room)			
C3	E123	W/6	: IPDM E/R (intelligent power distribution module engine room)			
C3	E124	W/12	: IPDM E/R (intelligent power distribution module engine room)			
E3	E125	B/32	: ABS actuator and electric unit (control unit) (with TCS)			
E3	E125	B/46	: ABS actuator and electric unit (control unit) (with VDC)			P(
D3	E126	_	: Body ground			
В4	E127	BR/3	: Intelligent key warning buzzer			
F2	E131	W/12	: To M92			
E1	E132	W/4	: To B104			
D3	E133	_	: Body ground			
F2	E134	W/16	: To M83			
				 -		



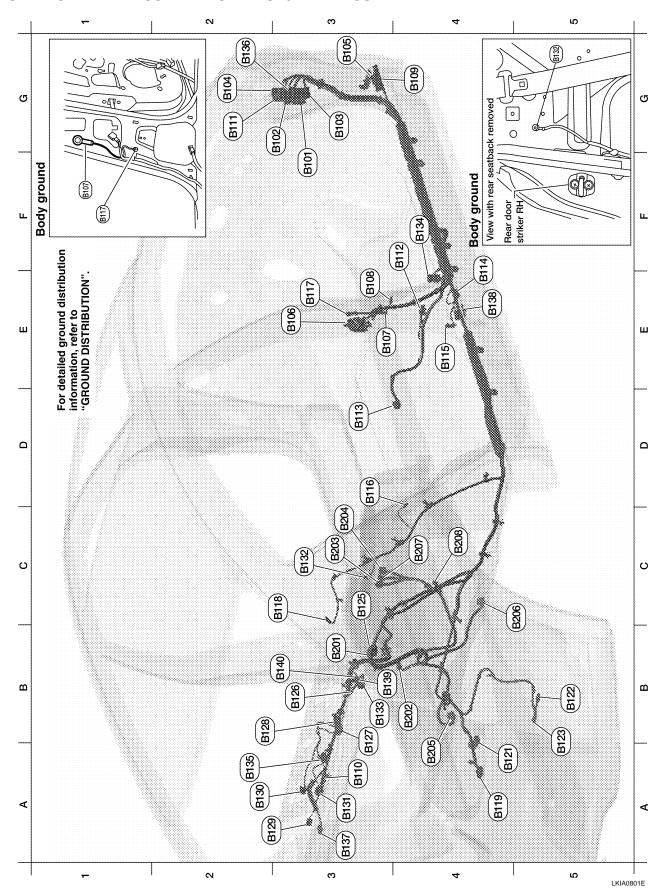
D -	F.	14.70		4.5	F=0	14/45	T M70	
D5	F1	W/2	: Generator	A2	F58	W/16	: To M70	
D5	F2	_	: Generator	A2	F59	W/12	: To M71	
D5	F3	B/1	: A/C Compressor	C3	F65	B/6	: Air fuel ratio (A/F) sensor 1 (bank 1)	
D4	F4	GR/2	: Intake valve timing control solenoid valve (bank 2)	Eng	Engine control sub-harness-1		[
E5	F5	B/6	: Air fuel ratio (A/F) sensor 1 (bank 2)	C3	F101	G/8	: To F44	
D4	F6	GR/3	: Ignition coil No. 2 (with power transistor)	D3	F102	GR/2	: Fuel injector No. 1	(
E4	F7	GR/3	: Ignition coil No. 4 (with power transistor)	D3	F103	GR/2	: Fuel injector No. 3	[
E4	F8	GR/3	: Ignition coil No. 6 (with power transistor)	D3	F104	GR/2	: Fuel injector No. 5	
D4	F9	_	: Engine ground	E2	F105	L/2	: EVAP canister purge volume control solenoid valve	
F4	F10	BR/3	: Front electronic controlled engine mount	C4	F106	B/1	: Oil pressure switch	ı
F3	F11	B/3	: Crankshaft position sensor (POS)	С3	F107	GR/2	: Intake valve timing control solenoid valve (bank 1)	
E5	F12	G/4	: Heated oxygen sensor 2 (bank 2)	Eng	ine contr	ol sub-ha	rness-2	(
D4	F13	G/4	: Heated oxygen sensor 2 (bank 1)	D2	F201	G/6	: To F43	
D4	F16	_	: Engine ground	D3	F202	GR/3	: Ignition coil No. 1 (with power transistor)	
D4	F18	GR/2	: Fuel injector No. 2	D3	F203	GR/3	: Ignition coil No. 3 (with power transistor)	
D3	F19	B/2	: VIAS control solenoid valve	D3	F204	GR/3	: Ignition coil No. 5 (with power transistor)	
E4	F20	GR/2	: Fuel injector No. 4	Eng	ine contr	ol sub-ha	rness-3	
E4	F21	GR/2	: Condenser-2	E3	F301	GR/6	: To F26	
E3	F22	GR/2	: Fuel injector No. 6	D3	F302	B/2	: Knock sensor	
E4	F23	B/3	: Camshaft position sensor (PHASE) (bank 2)	E3	F303	G/3	: Camshaft position sensor (phase) (bank 1)	
F3	F24	GR/2	: Engine coolant temperature sensor					
D2	F25	BR/3	: Rear electronic controlled engine mount					Р
E3	F26	GR/6	: To F301					
F4	F27	_	: Starter motor					
F4	F28	GR/1	: Starter motor					
F4	F30	GR/22	: CVT unit					
G3	F31	B/6	: Mass air flow sensor					
F2	F33	GR/9	: To E19					
F2	F35	GR/2	: To E22					
E3	F38	B/3	: Secondary speed sensor					
F3	F40		: Fusible link box (battery)					
гз D2	F40	G/6	: To F201					
D2	F44	G/8	: To F101					
C2	F46	B/3	: Power steering pressure sensor					
E2	F50	GR/6	: Electronic throttle control actuator					
B1	F54	B/81	: ECM					
A1	F56	W/24	: TCM (transmission control module)					
B1	F57	GR/24	: TCM (transmission control module)					

BODY HARNESS AND TAIL HARNESS



A3	B1	W/16	: To M11	Tail	harness			,
A2	B2	W/8	: To M12	E3	T1	W/8	: To B29	P
АЗ	В3	W/4	: To E33	F3	T2	W/3	: To T101	
A4	B4	BR/6	: Rear window defogger relay	F3	T3	W/4	: To T102	Е
C3	B5	_	: Body ground	F3	T101	W/3	: To T2	
C3	B6	W/12	: To D201	F3	T102	W/4	: To T3	
В3	B7	_	: Body ground	G3	T103	W/4	: Trunk lamp switch and trunk release solenoid	
С3	B8	W/3	: Front door switch LH	F3	T104	B/2	: License plate lamp LH	г
D3	В9	Y/12	: Air bag diagnosis sensor unit	G3	T105	B/2	: License plate lamp RH	
ВЗ	B10	Y/2	: Front LH side air bag module	G3	T106	BR/2	: Trunk opener request switch	
C4	B14	Y/2	: Front LH seat belt pre-tensioner	G3	T107	BR/2	: High mounted stop lamp (with rear spoiler)	Е
C4	B15	Y/2	: LH side air bag (satellite) sensor					
D4	B16	GR/5	: Fuel level sensor unit and fuel pump					
D4	B17	W/2	: Condenser-1					F
D3	B18	W/1	: Rear door switch LH					
D3	B19	_	: Body ground					
А3	B20	W/32	: To M81					
C4	B21	W/1	: Condenser-3					
A4	B22	B/5	: Passenger select unlock relay					H
E3	B23	GR/2	: Rear bumper antenna					
E3	B26	W/2	: Subwoofer LH (without BOSE audio system)					I
E3	B26	W/6	: Subwoofer LH (with BOSE audio system)					
F3	B27	W/8	: To B131					
E4	B28	W/4	: Fuel lid opener actuator					
E3	B29	W/8	: To T1					P
F4	B35	W/6	: Rear combination lamp LH					
G3	B36	W/6	: Rear combination lamp RH					
B4	B37	W/18	: To B400					
E2	B38	Y/2	: LH side front curtain air bag module					
А3	B40	W/24	: To M114					N
ВЗ	B41	W/32	: Bluetooth control unit					
ВЗ	B42	GR/1	: Bluetooth control unit					
G4	B47	GR/6	: To B300					
E4	B56	W/16	: Sonar control unit					
D2	B57	B/1	: Rear window defogger					
Rea	r sonar s	sensor su	ıb-harness					
F4	B300	GR/6	: To B47					
F4	B301	B/3	: Rear sonar sensor LH outer					
G4	B302	B/3	: Rear sonar sensor LH inner					
G4	B303	B/3	: Rear sonar sensor RH inner					
G4	B304	B/3	: Rear sonar sensor RH outer					

BODY NO. 2 HARNESS AND BODY NO. 3 HARNESS



Bod	ly harnes	ss No.2		G2	B136	BR/12	: To M110
F3	B101	GR/16	: To M84	А3	B137	W/16	: Satellite radio tuner or pre-wiring for satellite radio tuner
G3	B102	W/24	: To M85	E4	B138	B/3	: Belt tension sensor
G3	B103	W/16	: To M86	B4	B139	BR/1	: Satellite radio tuner (with SIRIUS satellite radio)
G2	B104	W/4	: To E132	B4	B139	V/1	: Satellite radio tuner (with XM satellite radio)
G3	B105	L/4	: Rear power socket relay (with rear console)	В3	B140	GR/1	: Satellite radio tuner (with SIRIUS satellite radio)
E3	B106	W/12	: To D301	В3	B140	BR/1	: Satellite radio tuner (with XM satellite radio)
E3	B107	_	: Body ground	Bod	ly harnes	s No.3	
E3	B108	W/3	: Front door switch RH	В3	B201	W/10	: To B125
G4	B109	BR/6	: Heated seat relay	B4	B202	B/2	: Rear power socket
А3	B110	GR/2	: Rear parcel shelf antenna	СЗ	B203	W/6	: Rear heated seat switch LH (with rear sun- shade)
G2	B111	W/2	: To E115	С3	B204	BR/6	: Rear heated seat switch RH (with rear sunshade)
F4	B112	Y/2	: Front RH side air bag module	A4	B205	W/3	: Rear seat heater LH
D3	B113	Y/12	: Air bag diagnosis sensor unit	B4	B206	W/3	: Rear seat heater RH
E4	B114	Y/2	: RH side air bag (satellite) sensor	C4	B207	W/6	: Rear sunshade rear switch (with rear sunshade)
E4	B115	Y/2	: Front RH seat belt pre-tensioner	C4	B208	W/4	: Rear console lamp
D3	B116	W/1	: Rear door switch RH				
E3	B117	_	: Body ground				
C3	B118	Y/2	: RH side rear curtain air bag module				
A4	B119	GR/3	: EVAP control system pressure sensor				
A4	B121	B/2	: EVAP canister vent control valve				
B5	B122	GR/2	: Rear wheel sensor RH				
A5	B123	L/2	: Rear wheel sensor LH				
C3	B125	W/10	: To B201				
В3	B126	W/2	: Subwoofer RH (without BOSE audio system)				
В3	B126	BR/6	: Subwoofer RH (with BOSE audio system)				
В3	B127	GR/8	: BOSE speaker amp.				
B2	B128	B/24	: BOSE speaker amp.				
A2	B129	W/2	: High mounted stop lamp (without rear spoiler)				
A2	B130	W/6	: Rear sunshade unit				
А3	B131	W/8	: To B27				
C3	B132	_	: Body ground				
В3	B133	W/10	: Subwoofer amp. (without BOSE audio system)				
F4	B134	W/16	: To B500				
A2	B135	W/2	: Trunk room lamp				

Revision: May 2006 PG-55 2007 Maxima

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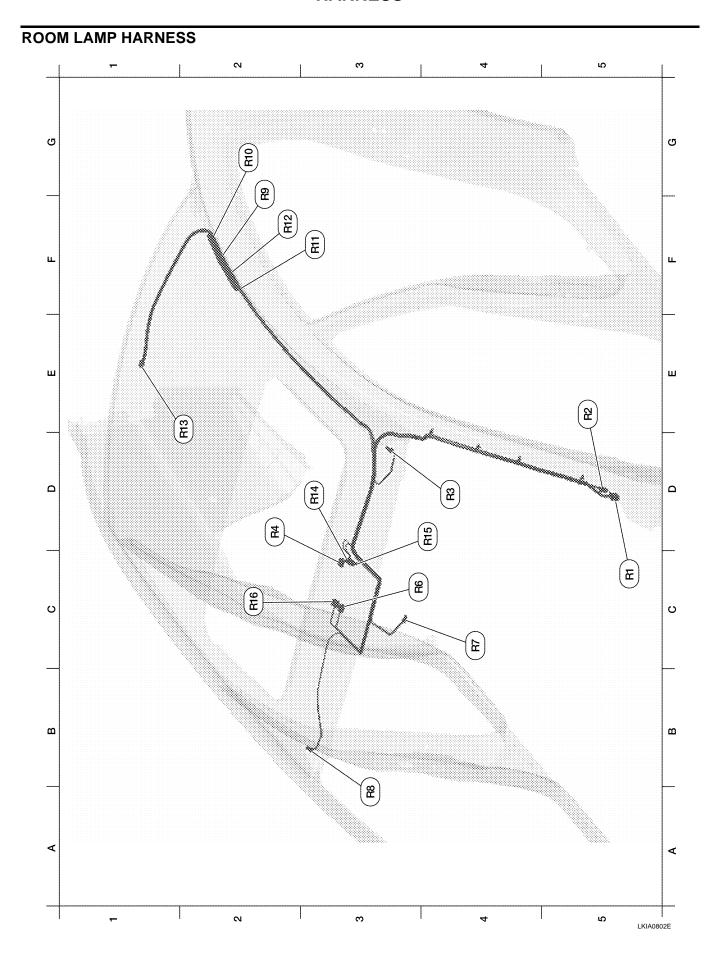
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C5	R1	W/16	: To M1			
E5	R2	W/3	: To M2			1
D4	R3	W/2	: Vanity mirror lamp LH			
D2	R4	W/10	: Sunroof motor			
СЗ	R6	GR/6	: Sunroof switch			
C4	R7	B/10	: Auto anti-dazzling inside mirror			
АЗ	R8	W/2	: Vanity mirror lamp RH			(
F2	R9	W/2	: Diode-1			
G2	R10	W/2	: Diode-2			[
F3	R11	W/2	: Diode-3			
F2	R12	W/2	: Diode-4			
D1	R13	W/6	: Personal lamp			-
D3	R14	W/8	: Interior room lamp			
D3	R15	W/4	: Microphone			
C2	R16	W/4	: Bluetooth on indicator			

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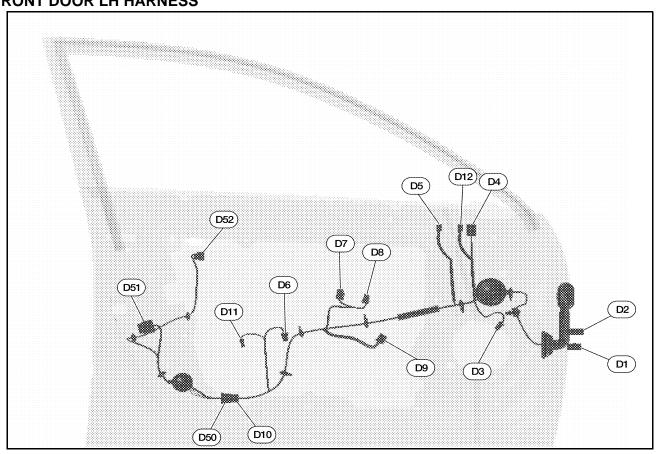
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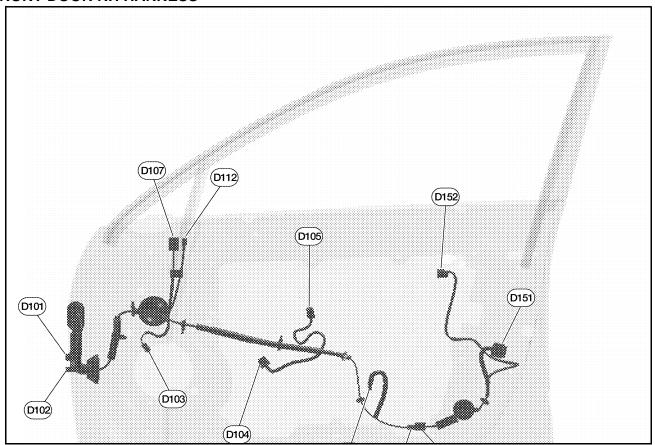
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FRONT DOOR LH HARNESS



D1	W/16	: To M9	D9	W/6	: Front power window motor LH
D2	W/32	: To M8	D10	W/10	: To D50
D3	W/2	: Front door speaker LH	D11	W/2	: Front step lamp LH
D4	W/16	: Door mirror LH (with auto dimming outside mirrors)	D12	BR/2	: Tweeter LH
D4	W/12	: Door mirror LH (without auto dimming outside mirrors)	Front	door LH s	ub-harness
D5	W/8	: Seat memory switch	D50	W/10	: To D10
D6	W/4	: Trunk and fuel lid opener switch	D51	BR/6	: Front door lock assembly LH
D7	W/16	: Main power window and door lock/unlock switch	D52	B/4	: To D60
D8	W/3	: Main power window and door lock/unlock switch			

FRONT DOOR RH HARNESS



D101	W/8	: To M75	D107	W/12	: Door mirror RH (without auto dimming outside mirrors)
D102	W/24	: To M74	D108	W/2	: Front step lamp RH
D103	W/2	: Front door speaker RH (without BOSE audio system)	D112	BR/2	: Tweeter RH
D103	BR/2	: Front door speaker RH (with BOSE audio system)	Front door RH sub-harness		
D104	W/6	: Front power window motor RH	D150	W/6	: To D106
D105	W/16	: Power window and door lock/unlock switch RH	D151	B/6	: Front door lock actuator RH
D106	W/6	: To D150	D152	B/4	: To D160
D107	W/16	: Door mirror RH (with auto dimming outside mirrors)			

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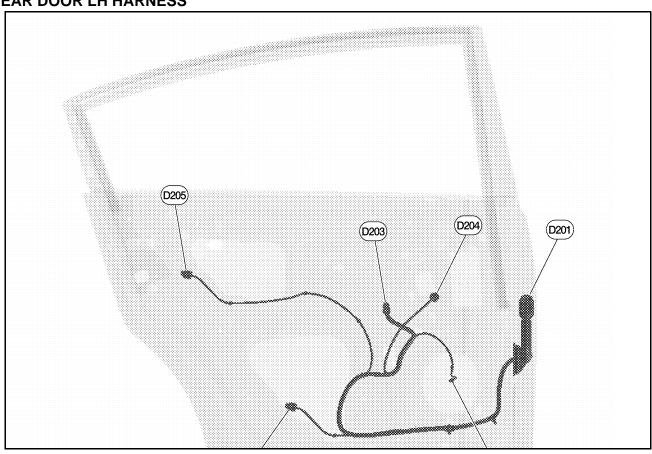
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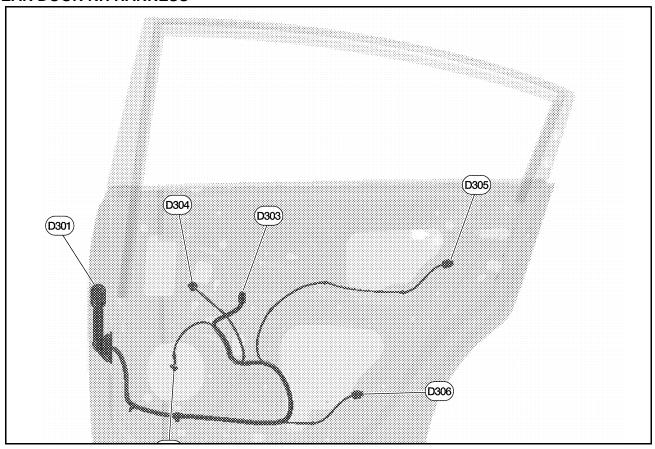
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REAR DOOR LH HARNESS



D201	W/12	: To B6	D204	GR/2	: Rear power window motor LH (with left and right front power window anti-pinch system)	
D202	BR/2	: Rear door speaker LH (with BOSE audio system)	D204	GR/6	: Rear power window motor LH (with left and right front power window anti-pinch system)	
D202	W/2	: Rear door speaker LH (without BOSE audio system)	D205	B/6	: Rear door lock actuator LH	
D203	W/8	: Rear power window switch LH (with left and right front power window anti-pinch system)	D206	W/8	: Rear step lamp LH	
D203	W/16	: Rear power window switch LH (with left and right front power window anti-pinch system)				

REAR DOOR RH HARNESS



D301	W/12	: To B106	D304	GR/2	: Rear power window motor RH (with left and right front power window anti-pinch system)	
D302	W/2	: Rear door speaker RH (without BOSE audio system)	D304	GR/6	: Rear power window motor RH (with left and right front power window anti-pinch system)	
D302	BR/2	: Rear door speaker RH (with BOSE audio system)	D305	B/6	: Rear door lock actuator RH	
D303	W/8	: Rear power window switch RH (with left and right front power window anti-pinch system)	D306	W/8	: Rear step lamp RH	
D303	W/16	: Rear power window switch RH (with left and right front power window anti-pinch system)				

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Wiring Diagram Codes (Cell Codes)

EKS009IA

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

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

Code	Section	Wiring Diagram Name
A/C,A	ATC	Auto Air Conditioner
AF1B1	EC	Air Fuel Ratio Sensor 1 Bank 1
AF1B2	EC	Air Fuel Ratio Sensor 1 Bank 2
AF1HB1	EC	Air Fuel Ratio Sensor 1 Heater Bank 1
AF1HB2	EC	Air Fuel Ratio Sensor 1 Heater Bank 2
AUTO/L	LT	Auto Light Control
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASCBOF	EC	ASCD Brake Switch
ASC/BS	EC	ASCD Brake Switch
ASCIND	EC	ASCD Indicator
ASC/SW	EC	ASCD Steering Switch
AUDIO	AV	Audio
AUT/DP	SE	Automatic Drive Positioner
BACK/L	LT	Back-up Lamp
BRK/SW	EC	Brake Switch
CAN	CVT	CAN Communication Line
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
COOL/F	EC	Cooling Fan Control
COMBSW	LT	Combination Switch
COMM	AV	Audio Visual Communication System
COMPAS	DI	Compass
CORNER	LT	Cornering Lamps
CVTIND	DI	CVT Indicator Lamp
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Headlamp - With Daytime Light System
ECM/PW	EC	ECM Power Supply for Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
EMNT	EC	Engine Mount
ETC1	EC	Electric Throttle Control Function
ETC2	EC	Throttle Control Motor Relay
ETC3	EC	Throttle Control Motor
F/FOG	LT	Front Fog Lamp
F/PUMP	EC	Fuel Pump
FTS	CVT	CVT Fluid Temperature Sensor Circuit
FTTS	EC	Fuel Tank Temperature Sensor
FUELB1	EC	Fuel Injection System Bank 1
FUELB2	EC	Fuel Injection System Bank 2
H/LAMP	LT	Headlamp
HORN	WW	Horn
H/PHON	AV	Hands Free Telephone
HSEAT	SE	Heated Seat

H/STRG	PS	Heated Steering Wheel
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)
IATS	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System
I/KEY	BL	Intelligent Key System
ILL	LT	Illumination
INF/D	AV	Vehicle Information and Integrated Switch System
INJECT	EC	Injector
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2
KS	EC	Knock Sensor
LPSV	CVT	Line Pressure Solenoid Valve
L/USSV	CVT	Lock-up Select Solenoid Valve
MAFS	EC	Mass Air Flow Sensor
MAIN	EC	Main Power Supply and Ground Circuit
METER	DI	Speedometer, Tachometer, Temp., Oil and Fuel Gauges
MIL/DL	EC	Malfunction Indicator Lamp
MIRROR	GW	Door Mirror
MMSW	CVT	Manual Mode Switch
NATS	BL	Nissan Anti-Theft System
NAVI	AV	Navigation System
NONDTC	CVT	Non-Detective Items
O2H2B1	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1
O2H2B2	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2
O2S2B1	EC	Heated Oxygen Sensor 2 (Rear) Bank 1
O2S2B2	EC	Heated Oxygen Sensor 2 (Rear) Bank 2
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	CVT	Park/Neutral Position Switch
PNP/SW	EC	Park/Neutral Position Switch
POS	EC	Crankshaft Position Sensor (CKPS) (POS)
POWER	CVT	Transmission Control Module (Power Supply)
POWER	PG	Power Supply Routing
PRE/SE	EC	EVAP Control System Pressure Sensor
PRSCVT	CVT	Primary Speed Sensor CVT (Revolution Sensor)
PRIPS	CVT	Primary Pressure Sensor
P/SCKT	WW	Power Socket
PS/SEN	EC	Power Steering Oil Pressure Sensor
ROOM/L	LT	Interior Room Lamp
RP/SEN	EC	Refrigerant Pressure Sensor
SEAT	SE	Power Seat
SECPS	CVT	Secondary Pressure Sensor
SECPSV	CVT	Secondary Pressure Solenoid Valve
SEN/PW	EC	Sensor Power Supply
SHADE	El	Rear Sunshade
SHIFT	CVT	CVT Shift Lock System
SESCVT	CVT	Secondary Speed Sensor CVT (Revolution Sensor)
	DI	Rear Sonar System
SONAR		
SONAR SROOF	RF	Sunroof
	RF SRS	Sunroof Supplemental Restraint System

Revision: May 2006 PG-63 2007 Maxima

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STM	CVT	Step Motor
STOP/L	LT	Stop Lamp
STSIG	CVT	Start Signal Circuit
T/WARN	WT	Low Tire Pressure Warning System
TCV	CVT	Torque Converter Clutch Solenoid Valve
TLID	BL	Trunk Lid Opener
TAIL/L	LT	Parking, License and Tail Lamps
TCS	BRC	Traction Control System
TPS1	EC	Throttle Position Sensor
TPS2	EC	Throttle Position Sensor
TPS3	EC	Throttle Position Sensor
TRNSCV	BL	HOMELINK® Universal Transceiver
TRSC	AT	Turbine Revolution Sensor
TURN	LT	Turn Signal and Hazard Warning Lamps
VDC	BRC	Vehicle Dynamic Control System
VEHSEC	BL	Vehicle Security System
VENT/V	EC	EVAP Canister Vent Control Valve
VIAS	EC	Variable Air Induction Control System
VIAS/V	EC	Variable Air Induction Control System Valve
W/ANT	AV	Audio Antenna
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer

ELECTRICAL UNITS LOCATION

PFP:25230

EKS009IB

Electrical Units Location ENGINE COMPARTMENT

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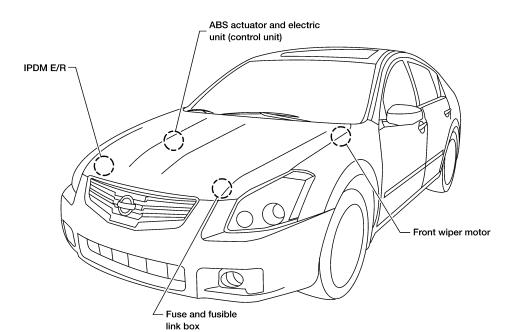
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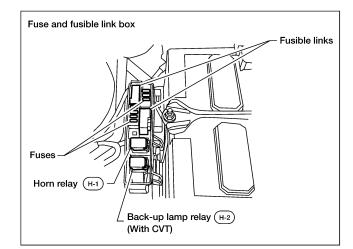
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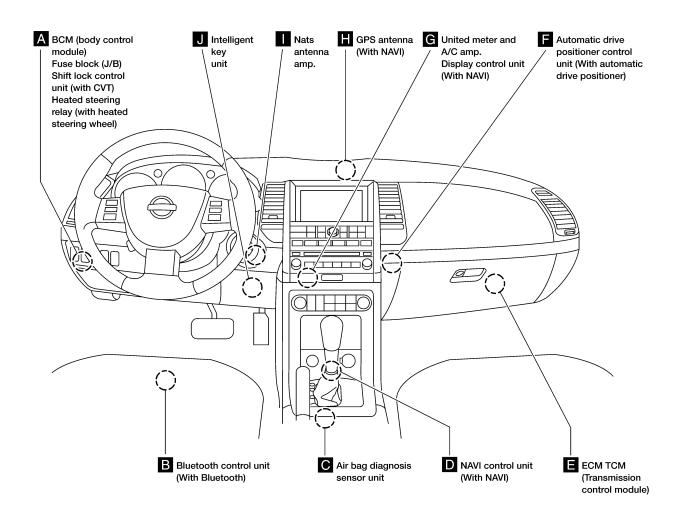
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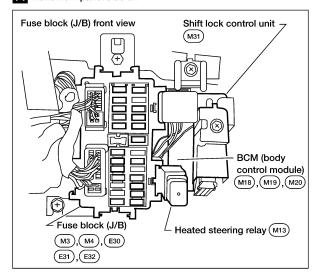
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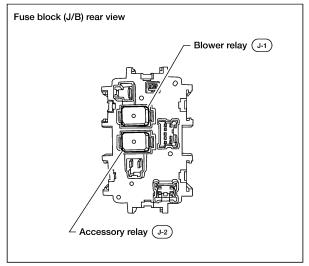
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PASSENGER COMPARTMENT

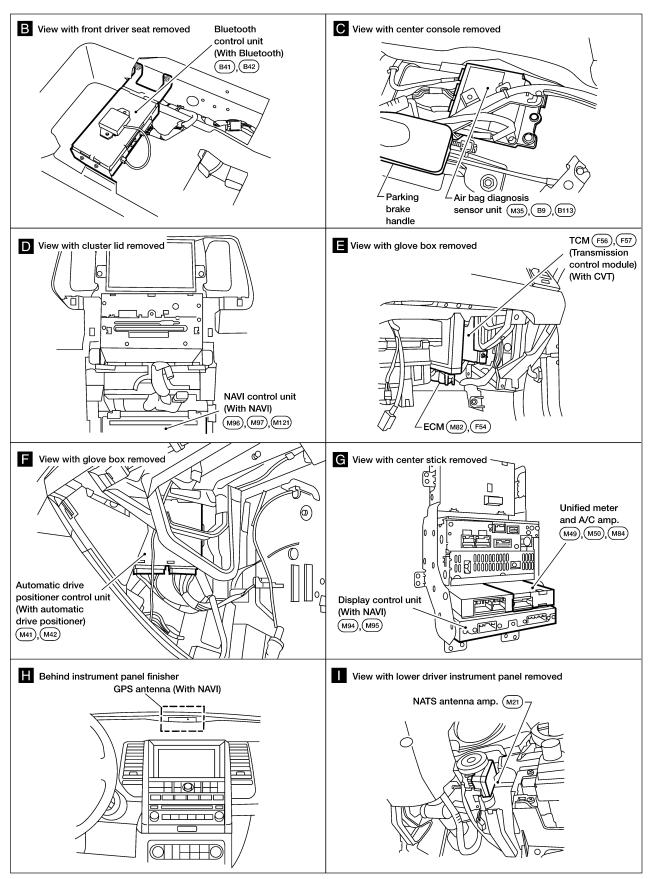


A Instrument panel side LH





WKIA5566E



PG-67

Revision: May 2006

WKIA5567E

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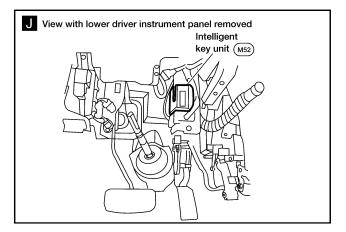
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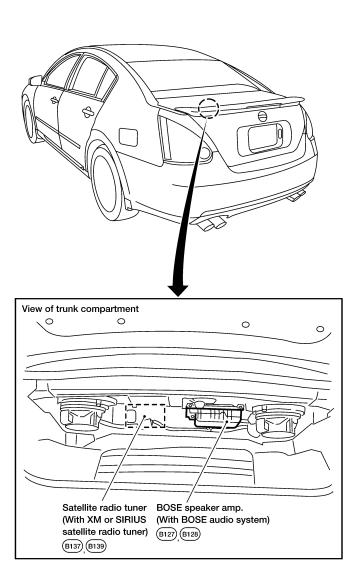
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2007 Maxima



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HARNESS CONNECTOR

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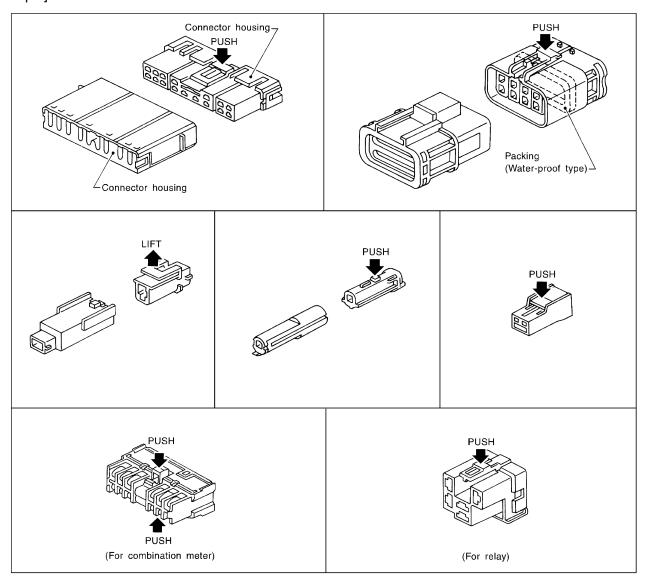
DescriptionHARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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]



SEL769DA

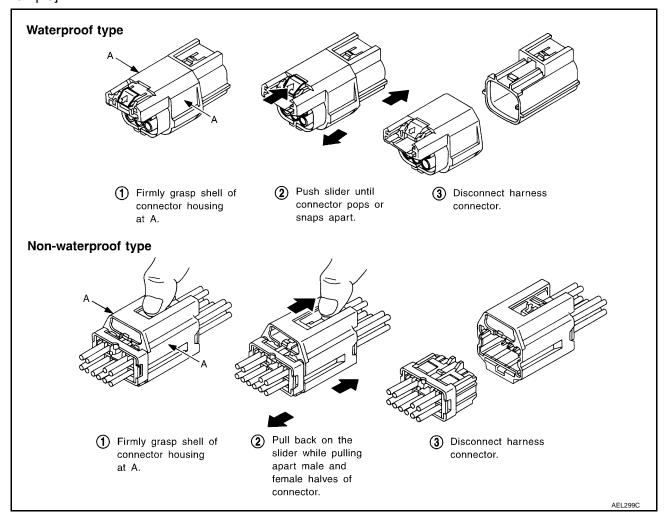
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



Revision: May 2006 PG-71 2007 Maxima

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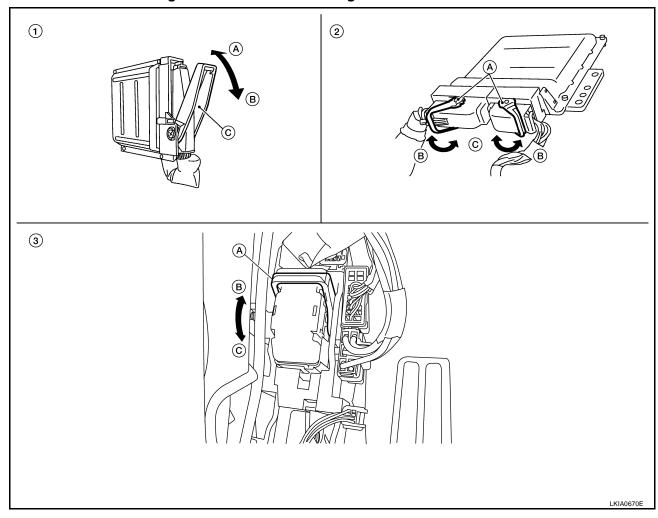
L

HARNESS CONNECTOR (LEVER LOCKING TYPE)

- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked in place by moving the lever as far as it will go to ensure full connection.

CAUTION:

Always confirm the lever is fully released (loosened) before attempting to disconnect or connect these connectors to avoid damage to the connector housing or terminals.



- 1. Control unit with single lever
 - A. Fasten
 - B. Loosen
 - C. Lever

- 2. Control unit with dual levers
 - A. Levers
 - B. Fasten
 - C. Loosen

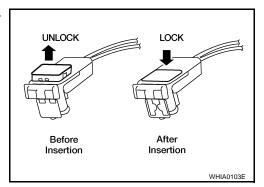
- 3. SMJ connector
 - A. Lever
 - B. Fasten
 - C. Loosen

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.



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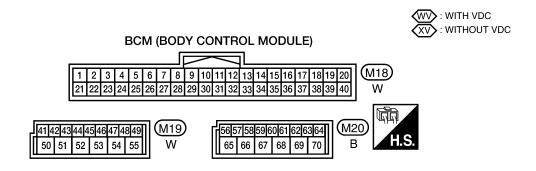
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ELECTRICAL UNITS

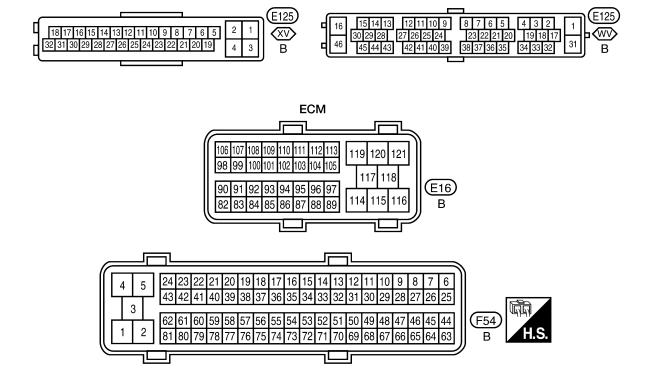
ELECTRICAL UNITS Terminal Arrangement

PFP:23710

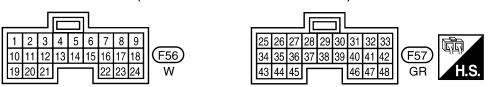
EKS009IG



ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



TCM (TRANSMISSION CONTROL MODULE)



WKIA5569E

STANDARDIZED RELAY

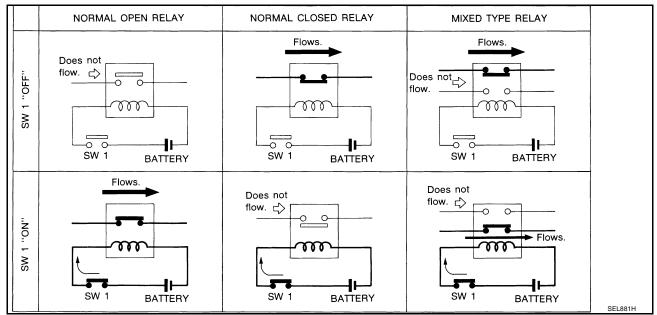
STANDARDIZED RELAY

PFP:25230

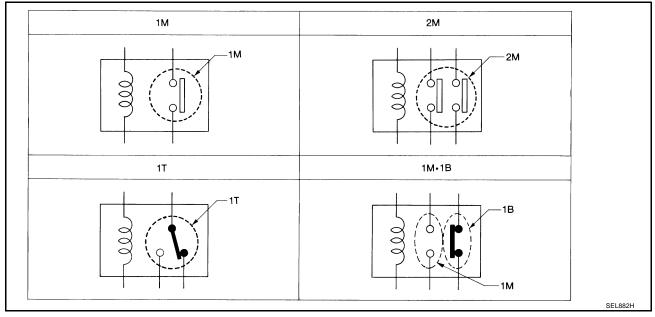
Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



TYPE OF STANDARDIZED RELAYS



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

2007 Maxima

Revision: May 2006

EKS009IH

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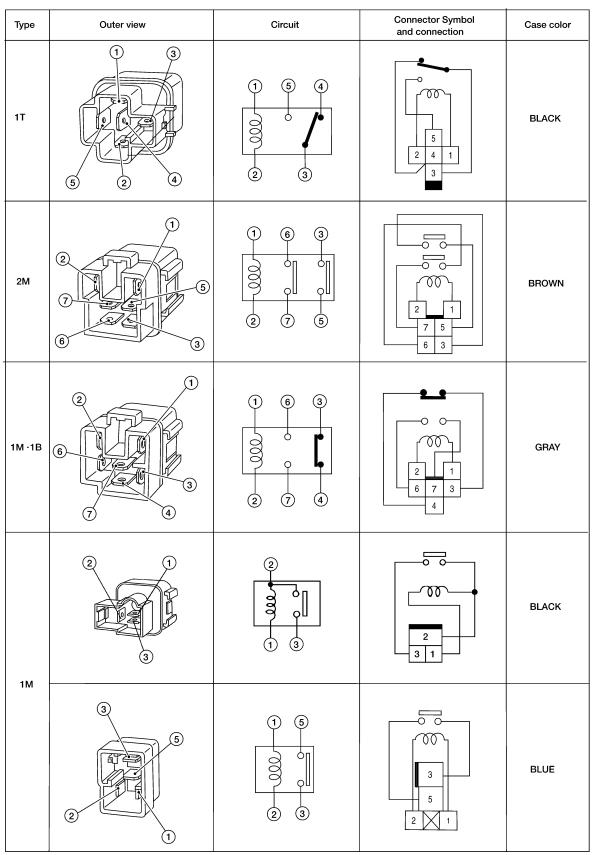
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STANDARDIZED RELAY



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

WKIA0253E

FUSE BLOCK-JUNCTION BOX (J/B) PFP:24350 **Terminal Arrangement** EKS009II To main harness В (M3) C D Е Н 15A 10A 10A 10A 10A 15A 10A 40F 15A 15A 10A 10A 10A Blower relay J-1 Accessory relay (J-2) PG M F Not used 1S E32 2R 1R To engine room harness

WKIA5570E

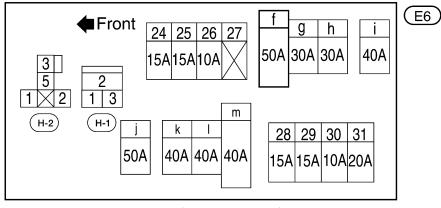
FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX

PFP:24381

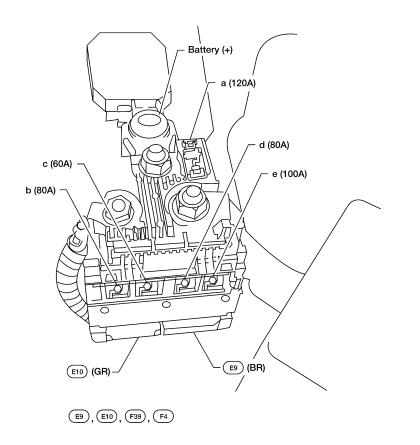
Terminal Arrangement

EKS009IJ



24 - 31: FUSE f - m : FUSIBLE LINK

FUSIBLE LINK BOX (BATTERY)



WKIA5571E