POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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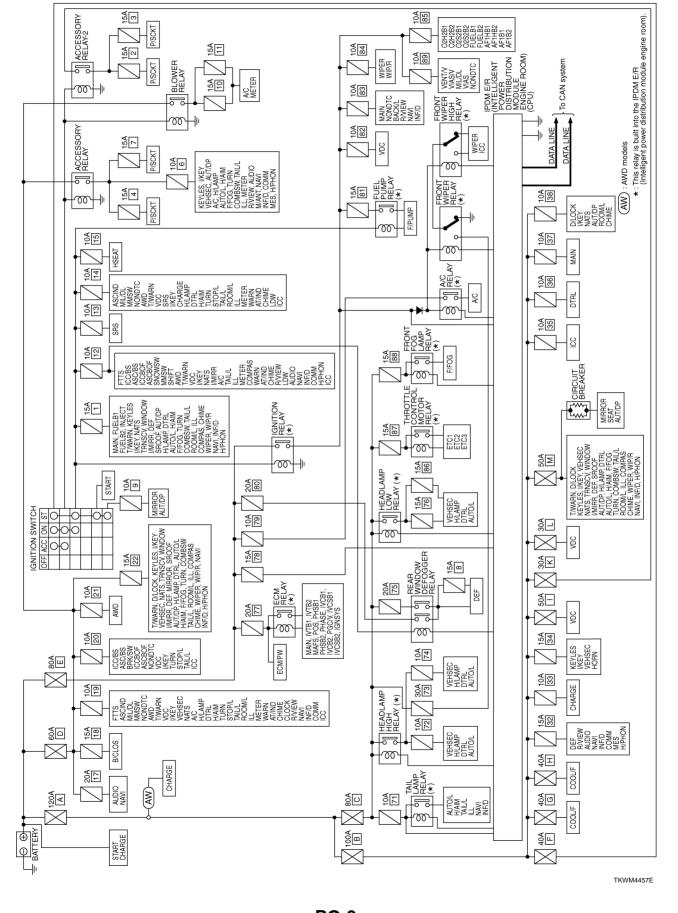
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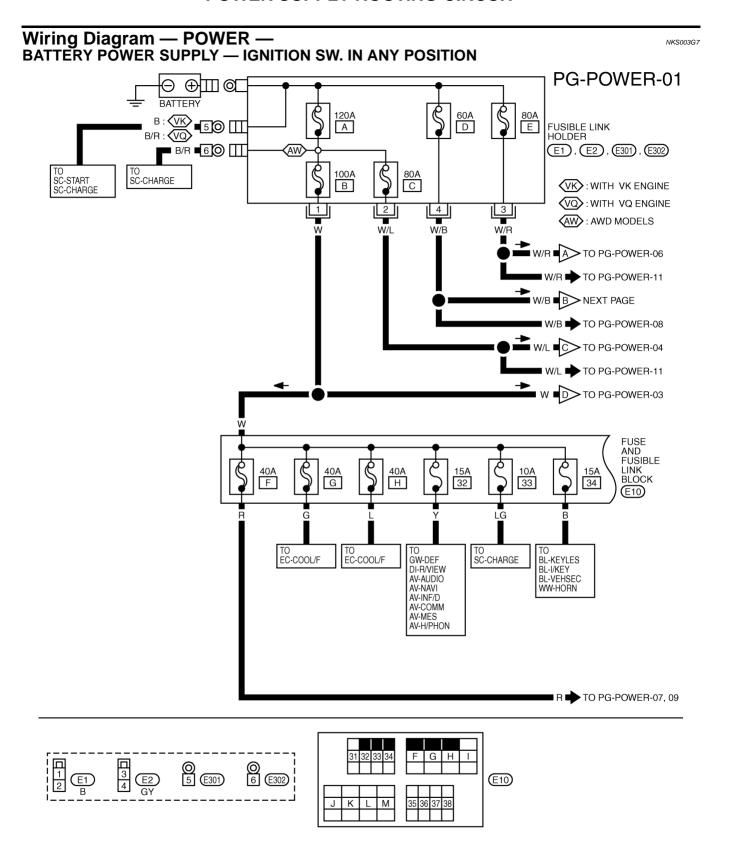
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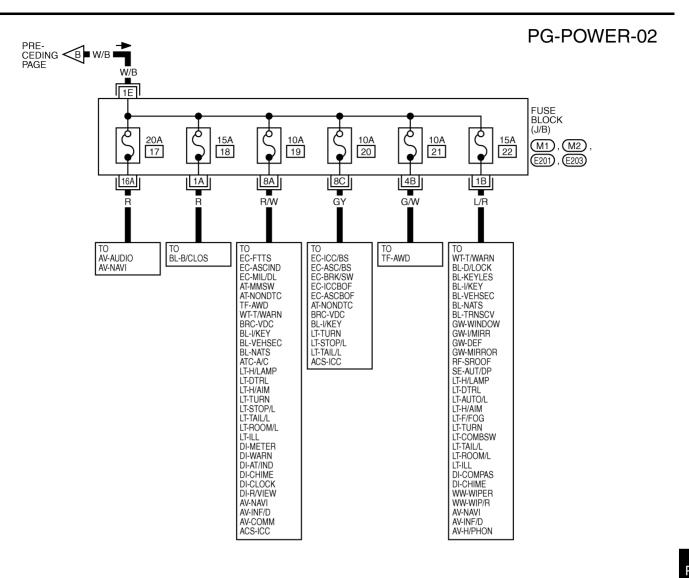
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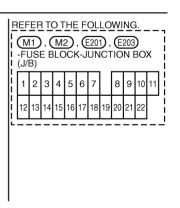
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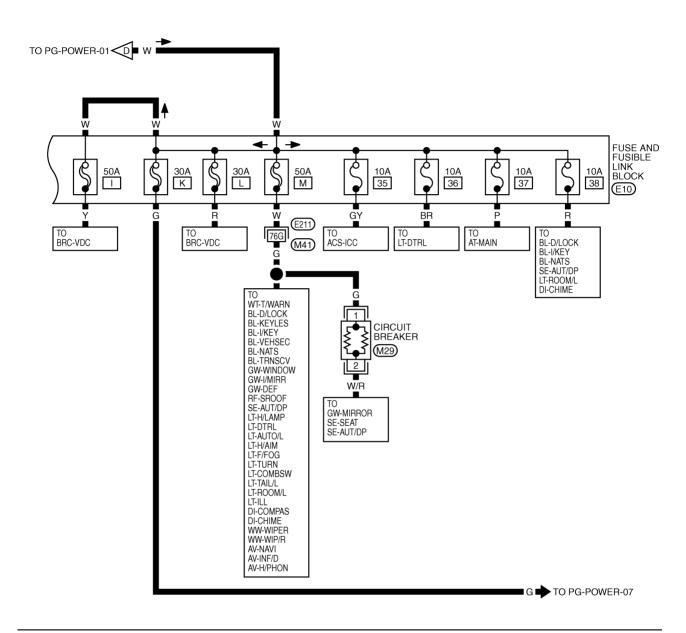
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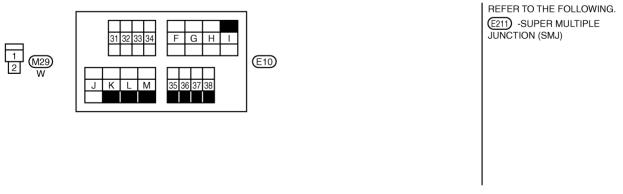
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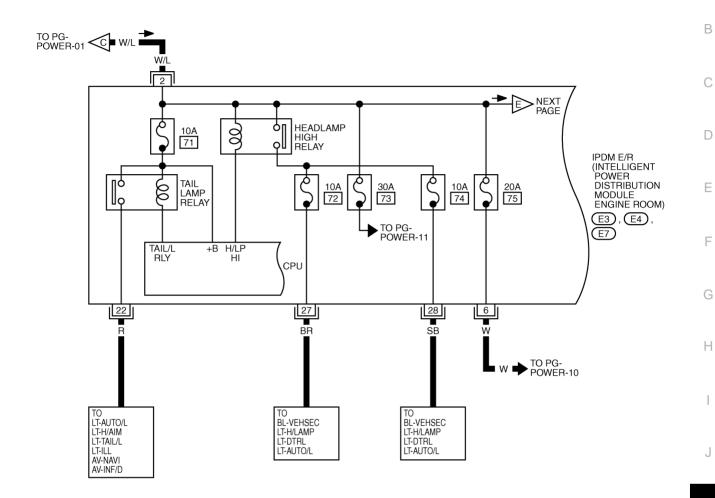




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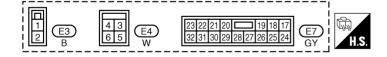
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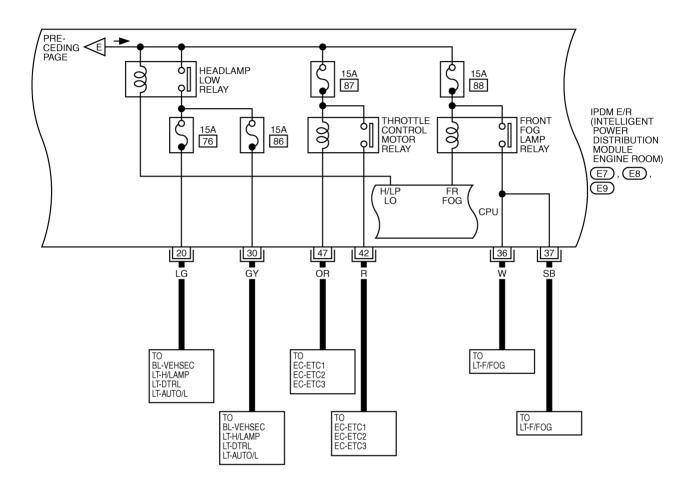
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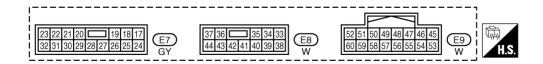
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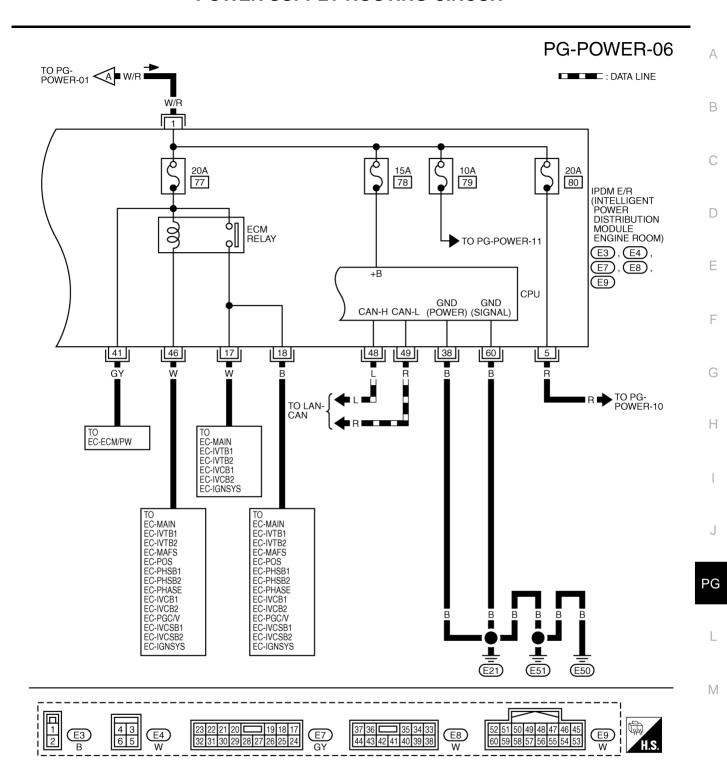
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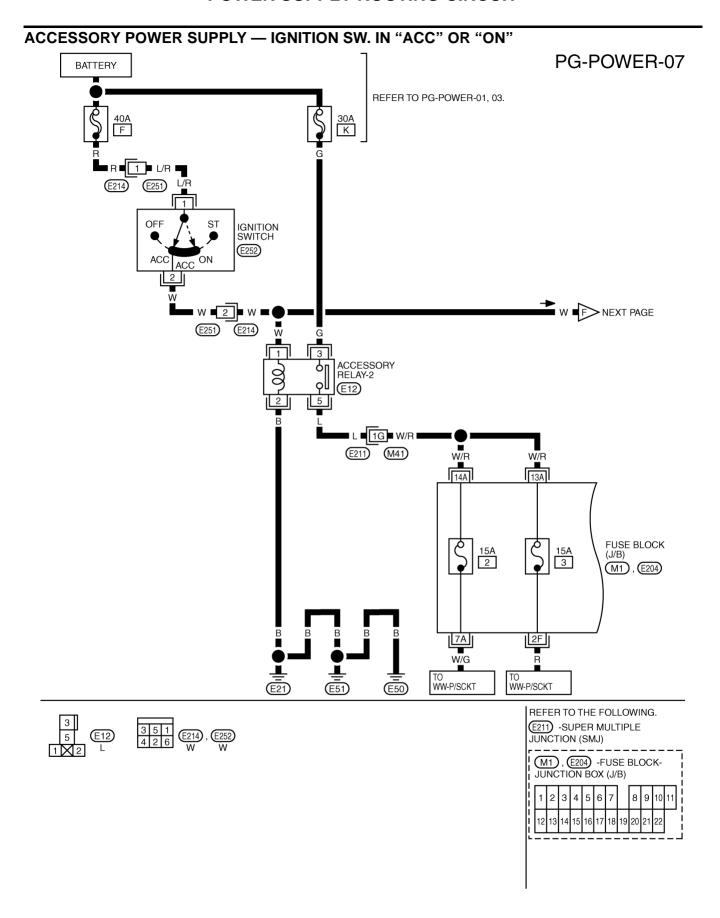


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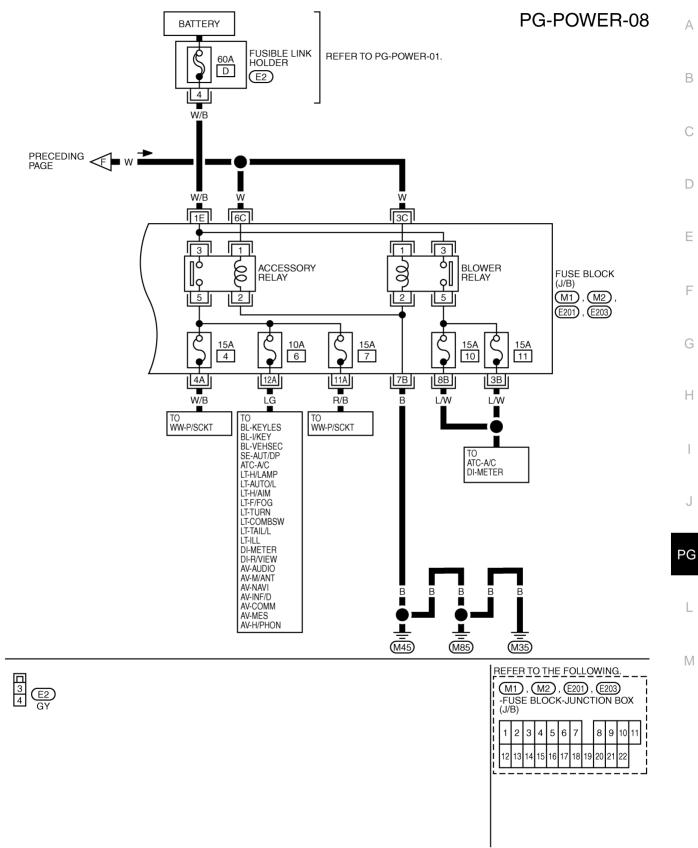


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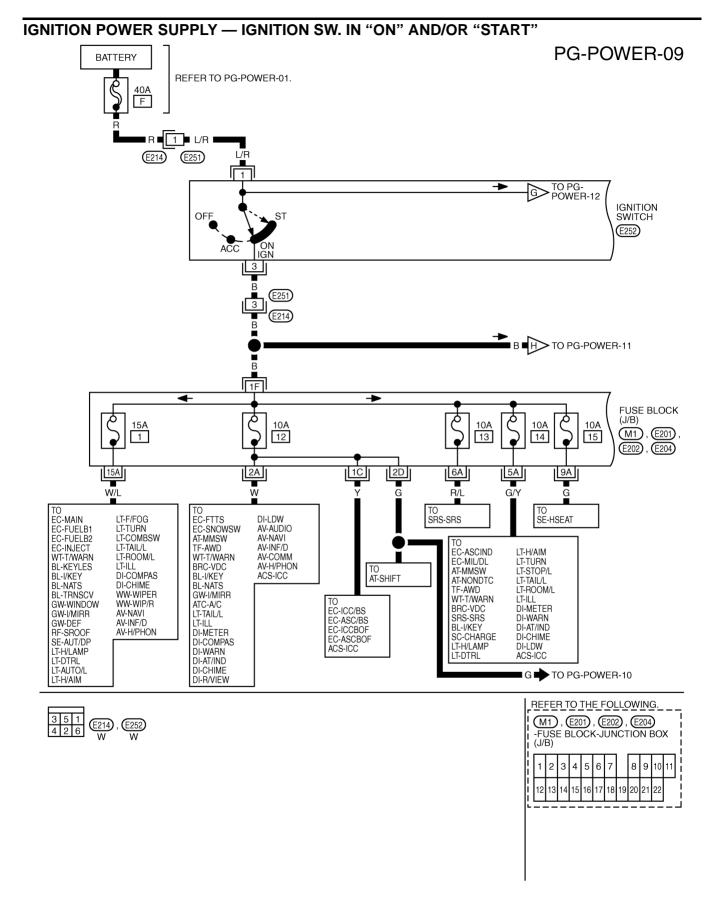
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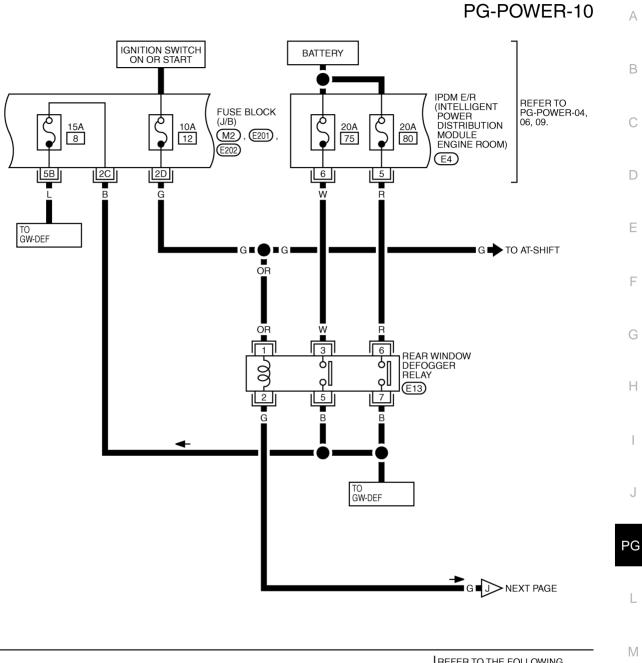
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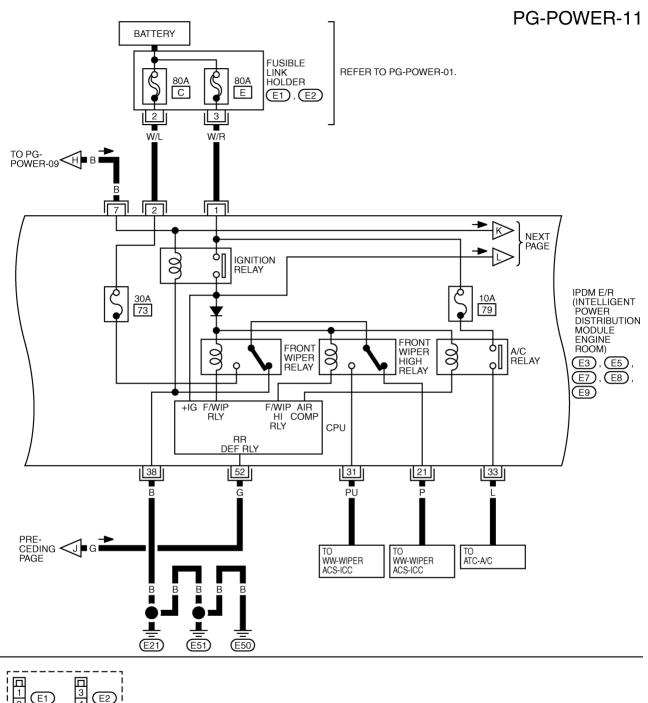


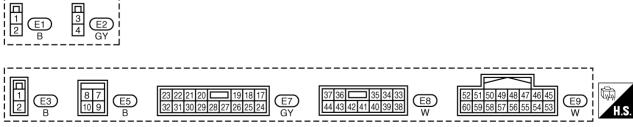
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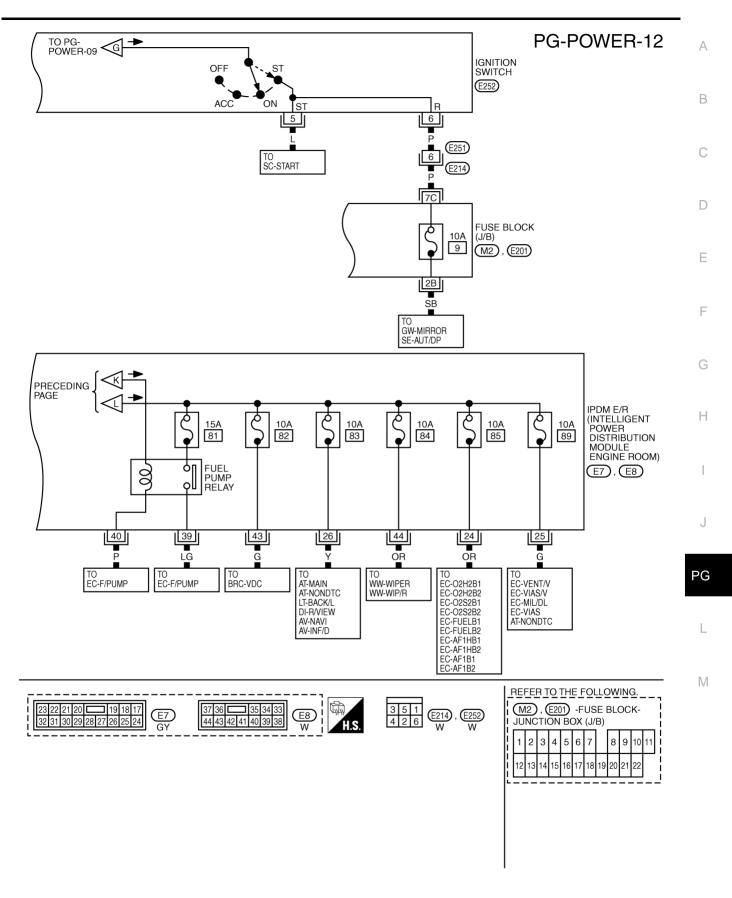


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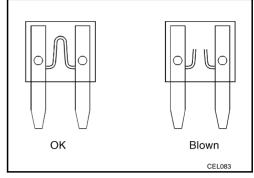


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Fuse

 If fuse is blown, be sure to eliminate cause of malfunction 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.

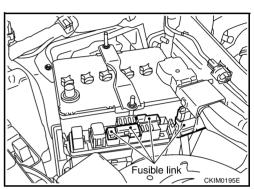


Fusible Link

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 malfunction.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other wiring harness, vinyl or rubber parts.

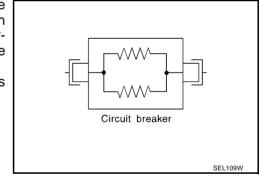


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Circuit Breaker

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 control the circuit current. Reduced current flow will cause the element to cool. Resistance falls accordingly and normal circuit current flow is allowed to resume.



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

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

CAUTION

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

SYSTEMS CONTROLLED BY IPDM E/R

- Lamp control
 - Using CAN communication line, it receives signal from BCM and controls the following lamps:
 - Headlamps (Hi, Lo)
 - Parking, license plate, side marker and tail lamps
 - Front fog lamps
- 2. Wiper control
 - Using CAN communication line, it receives signals from BCM and controls the front wipers.
- Rear window defogger relay control
 Using CAN communication line, it receives signals from BCM and controls the rear window defogger
 relay.
- 4. A/C compressor control
 - Using CAN communication line, it receives signals from ECM and controls the A/C compressor.
- Cooling fan control
 Using CAN communication line, it receives signals from ECM and controls cooling fan.
- Horn control Using CAN communication line, it receives signals from BCM and controls horn relay.

CAN COMMUNICATION LINE CONTROL

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

Fail- Safe Control

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

Controlled system	Fail-safe mode
Headlamp	 With the ignition switch ON, the headlamp (low) is ON. With the ignition switch OFF, the headlamp (low) is OFF.
Parking, license plate side marker and tail lamps	 With the ignition switch ON, the parking, license plate, side marker and tail lamps is ON. With the ignition switch OFF, the parking, license plate, side marker and tail lamps is OFF.
Cooling fan	 With the ignition switch ON, the cooling fan HI operates. 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 is OFF
A/C compressor	A/C compressor is OFF
Front fog lamps	Front fog lamp is OFF

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IPDM E/R STATUS CONTROL

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

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

CAN Communication System Description

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CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Modern vehicles are equipped with many electronic control units and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

CAN Communication Unit

NKS003GD

Refer to LAN-32, "CAN Communication Unit".

Function of Detecting Ignition Relay Malfunction

NKS003GE

- When contact point of integrated ignition relay is stuck and cannot be turned OFF, IPDM E/R turns ON
 parking, license plate, side marker and tail lamps for 10 minutes to indicate ignition relay malfunction.
- When a state of ignition relay having built-in does not agree with a state of ignition switch signal input by a CAN communication from BCM, IPDM E/R lets tail lamp relay operate.

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

NOTE:

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

CONSULT-II Function (IPDM E/R)

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

Inspection Item, Diagnosis Mode	Description
SELF-DIAG RESULTS	The IPDM E/R performs diagnosis of the CAN communication and self-diagnosis.
DATA MONITOR	The input/output data of the IPDM E/R is displayed in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication can be read.
ACTIVE TEST	The IPDM E/R sends a drive signal to electronic components to check their operation.

CONSULT-II INSPECTION PROCEDURE

Refer to GI-38, "CONSULT-II Start Procedure".

SELF-DIAG RESULTS

Operation Procedure

- 1. Touch "SELF-DIAG RESULTS" on "SELECT DIAG MODE" screen.
- Check display content in self-diagnostic results.

Display Item List

Diaplay Itama	CONSULT-II	Malfunction detecting condition	TIT	ME	Possible causes
Display Items	display code	Malfunction detecting condition	CRNT	PAST	Possible causes
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 malfunction, data reception/transmission cannot be confirmed. When the data in CAN communication is not received before the specified time 	×	×	Any of or several items 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 memorized with IPDM E/R.

DATA MONITOR

Operation Procedure

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

ALL SIGNALS	All items will be monitored.
MAIN SIGNALS	Monitor the predetermined item.
SELECTION FROM MENU	Select any item for monitoring.

- Touch the required monitoring item on "SELECTION FROM MENU". In "ALL SIGNALS", all items are monitored. In "MAIN SIGNALS", predetermined items are monitored.
- 4. Touch "START".
- 5. Touch "RECORD" while monitoring to record the status of the item being monitored. To stop recording, touch "STOP".

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All Signals, Main Signals, Selection From Menu

			SELECT MONITOR ITEM			
Item name	CONSULT-II screen display	Display or unit	ALL SIG- NALS	MAIN SIG- NALS	SELECTION FROM MENU	Description
Motor fan request	MOTOR FAN REQ	1/2/3/4	×	×	×	Signal status input from ECM
Compressor request	AC COMP REQ	ON/OFF	×	×	×	Signal status input from ECM
Tail & clear request	TAIL&CLR REQ	ON/OFF	×	×	×	Signal status input from BCM
H/L LO request	HL LO REQ	ON/OFF	×	×	×	Signal status input from BCM
H/L HI request	HL HI REQ	ON/OFF	×	×	×	Signal status input from BCM
FR fog request	FR FOG REQ	ON/OFF	×	×	×	Signal status input from BCM
FR wiper request	FR WIP REQ	STOP/LO/HI	×	×	×	Signal status input from BCM
Wiper auto stop	WIP AUTO STOP	ACT P/STOP P	×	×	×	Output status of IPDM E/R
Wiper protection	WIP PROT	OFF/BLOCK	×	×	×	Control status of IPDM E/R
Starter request	ST RLY REQ*1	ON/OFF	×		×	Status of input signal
Ignition relay status	IGN RLY	ON/OFF	×	×	×	Ignition relay status monitored with IPDM E/R
Rear window defog- ger request	RR DEF REQ	ON/OFF	×	×	×	Signal status input from BCM
Oil pressure switch	OIL P SW	OPEN/CLOSE	×		×	Signal status input in IPDM E/R
Hood switch	HOOD SW	ON/OFF	×		×	Input signal status
Theft warning horn request	THFT HRN REQ	ON/OFF	×		×	Signal status input from BCM
Horn chirp	HORN CHIRP	ON/OFF	×		×	Output status of IPDM E/R
Cornering lamp request	CRNRNG LMP REQ ^{*2}	OFF/LEFT/ RIGHT	×		×	Signal status input from BCM

NOTE:

- Perform monitoring of IPDM E/R data with the ignition switch ON. When the ignition switch is at ACC, the display may not be correct.
- *1: The vehicle without the Intelligent Key system displays only ON without change.
- *2:The cornering lamp item is displayed, but it cannot be monitored.

ACTIVE TEST

Operation Procedure

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

Test item	CONSULT-II screen display	Description
Tail lamp operation	TAIL LAMP	With a certain ON-OFF operation, the tail lamp relay can be operated.
Rear window defogger operation	REAR DEFOGGER	With a certain ON-OFF operation, the rear window defogger relay can be operated.
Front wiper (HI, LO) operation	FRONT WIPER	With a certain operation (OFF, HI ON, LO ON), the front wiper relay (Lo, Hi) can be operated.
Cooling fan operation	MOTOR FAN	With a certain operation (1, 2, 3, 4), the cooling fan can be operated.
Lamp (HI, LO, FOG) operation	LAMPS	With a certain operation (OFF, HI ON, LO ON, FOG ON), the lamp relay (Lo, Hi, Fog) can be operated.
Cornering lamp operation	CORNERING LAMP ^{NOTE}	_
Horn operation	HORN	With a certain ON-OFF operation, the horn relay can be operated.

NOT This	ΓΕ: s item is displayed, but cannot be tested.	Α
	Ito Active Test SCRIPTION	
In a	auto active test mode, operation inspection can be performed when IPDM E/R sends a drive signal to the owing systems:	В
•	Rear window defogger Front wipers	С
•	Parking, license plate, side marker and tail lamps Front fog lamps Headlamps (Hi, Lo)	D
•	A/C compressor (magnetic clutch) Cooling fan ERATION PROCEDURE	Е
1.	Close hood and front door (passenger side), and then lift wiper arms away from windshield (to prevent glass damage by wiper operation).	F
2.	NOTE: When auto active test is performed with hood opened, sprinkle water on windshield beforehand. Turn ignition switch OFF.	G
3.	Turn ignition switch ON, and within 20 seconds, press drivers door switch 10 times (close other doors). Then turn ignition switch OFF.	
4.	Turn ignition switch ON within 10 seconds after ignition switch OFF.	Н
5.	When auto active test mode is actuated, horn chirps once oil pressure warning lamp starts blinking.	
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.	ı
	CAUTION: Be sure to inspect <u>BL-40, "Check Door Switch"</u> when the auto active test cannot be performed.	J

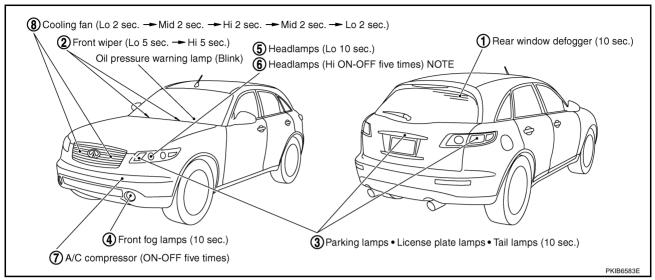
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INSPECTION IN AUTO ACTIVE TEST MODE

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



NOTE:

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

Concept of Auto Active Test

- IPDM E/R actuates auto active test mode when it receives door switch signal from BCM via CAN communication line. Therefore, when auto active test mode is activated successfully, CAN communication between IPDM E/R and BCM is normal.
- If any of 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 malfunction
Any of front wipers, tail			Lamp/wiper motor malfunction
and parking lamps, front fog lamps, and head	Perform auto active test. Does system in		Lamp/wiper motor ground circuit malfunction
lamps (Hi, Lo) do not	question operate?	NO	Harness/connector malfunction between IPDM E/R and system in ques-
operate.			tion
			IPDM E/R (integrated relay) malfunction
		YES	BCM signal input circuit malfunction
	Perform auto active		Rear window defogger relay malfunction
Rear window defogger	test. Does rear win-		Harness/connector malfunction between IPDM E/R and rear window
does not operate.	dow defogger operate?	NO	defogger relay.
			Open circuit of rear window defogger
			IPDM E/R malfunction
	Perform auto active test. Does magnetic clutch operate?	YES	BCM signal input circuit malfunction
			CAN communication signal between BCM and ECM.
A/C compressor does			CAN communication signal between ECM and IPDM E/R
not operate.		NO	Magnetic clutch malfunction
			Harness/connector malfunction between IPDM E/R and magnetic clutch
			IPDM E/R (integrated relay) malfunction
		VEC	ECM signal input circuit
	Perform auto active test. Does cooling fan operate?	YES	CAN communication signal between ECM and IPDM E/R
Cooling fan does not operate.		NO	Cooling fan motor malfunction
5p5.4t0.			Harness/connector malfunction between IPDM E/R and cooling fan motor
			IPDM E/R (integrated relay) malfunction

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 malfunction 		
		NO	 CAN communication signal between BCM and Unified Meter and A/C Amp Combination meter 		

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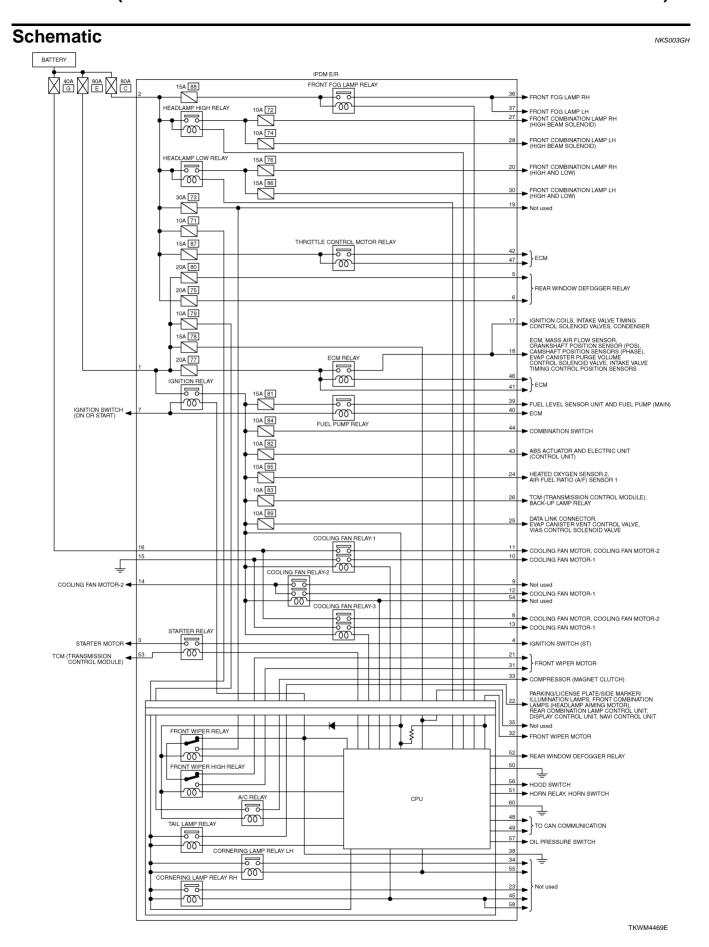
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IPDM E/R Power/Ground Circuit Inspection

1. CHECK FUSE AND FUSIBLE LINK

Make sure the following fusible links or IPDM E/R fuses are not blown.

Terminal No.	Power source	Fuse and fusible link No.
		С
1, 2	Pottory power	E
1, 2	Battery power	71
		78

OK or NG

OK >> GO TO 2.

NG >> If fuse or fusible link blown, be sure to eliminate cause of malfunction before installing new one.

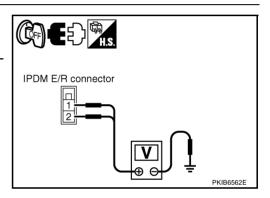
2. CHECK POWER SUPPLY CIRCUIT

- 1. Turn ignition switch OFF.
- 2. Disconnect IPDM E/R harness connector E3.
- 3. Check voltage between IPDM E/R harness connector E3 terminals 1, 2 and ground.

OK or NG

OK >> GO TO 3.

NG >> Replace IPDM E/R power supply circuit harness.



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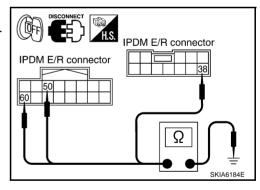
3. CHECK GROUND CIRCUIT

- 1. Disconnect IPDM E/R harness connectors E8 and E9.
- Check continuity between IPDM E/R harness connectors E8 terminal 38, E9 terminal 50, 60 and ground.

OK or NG

OK >> INSPECTION END

NG >> Replace ground circuit harness of IPDM E/R.



Inspection With CONSULT-II (Self-Diagnosis)

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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 carry out CAN communication.

1. CHECK SELF DIAGNOSTIC RESULT

- 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 diagnostic results.

CONSULT-II display	CONSULT-II	TIME		Details of diagnosis result
CONSOLT-II dispiay	display code	CRNT	PAST	Details of diagnosis result
NO DTC IS DETECTED. FURTHER TESTING MAY BE REQUIRED.	_	_	_	No malfunction
CAN COMM CIRC	U1000	×	×	Any of or several items 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 memorized with IPDM E/R.

Contents displayed

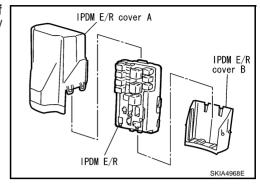
NO DTC IS DETECTED.FURTHER TESTING MAY BE REQUIRED.>>INSPECTION END CAN COMM CIRC>>LAN-3, "Precautions When Using CONSULT-II".

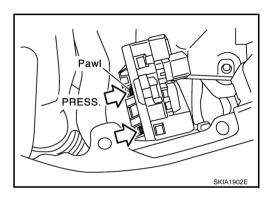
PG

Removal and Installation of IPDM E/R REMOVAL

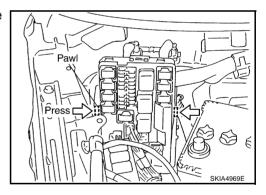
NKS003GL

- 1. Remove battery. Refer to SC-7, "Removal and Installation".
- Remove IPDM E/R cover A. While pressing pawl on backside of IPDM E/R cover B toward vehicle front to unlock, lift up IPDM E/R





- 3. While pressing pawls on right and left side of IPDM E/R, remove IPDM E/R cover B from IPDM E/R.
- 4. Remove harness connector from IPDM E/R.



INSTALLATION

Installation is the reverse order of removal.

GROUND PFP:00011

Ground Distribution MAIN HARNESS

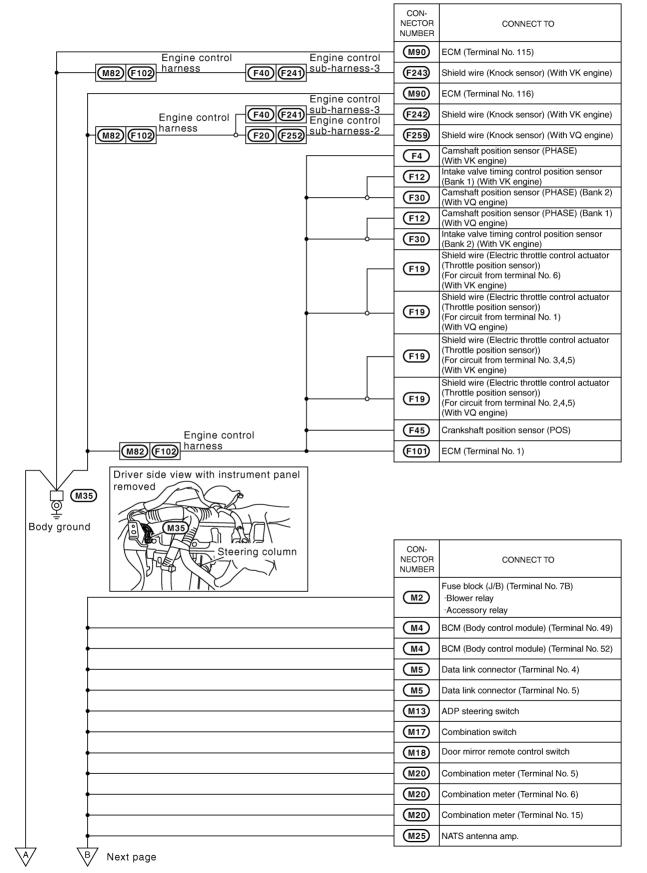
NKS003GM

Α

В

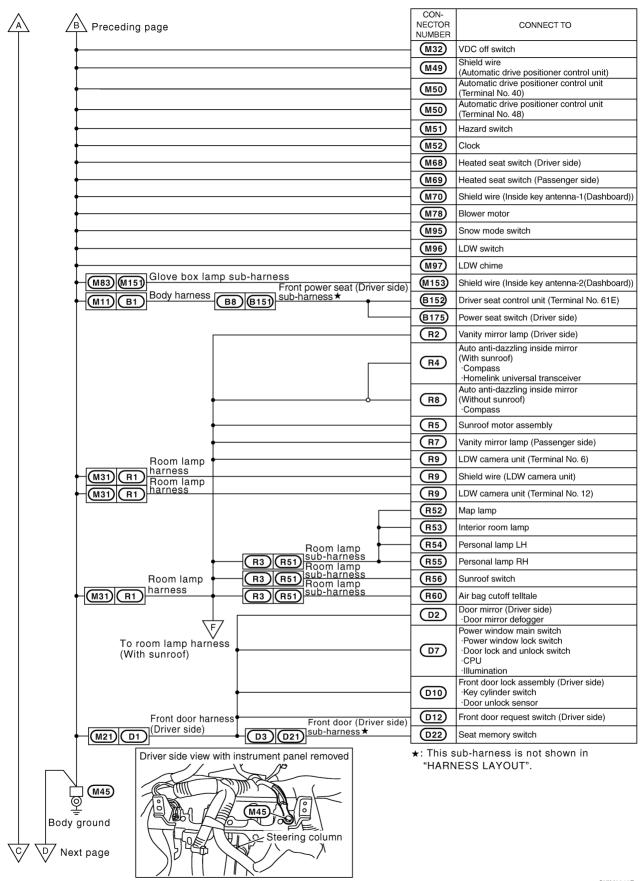
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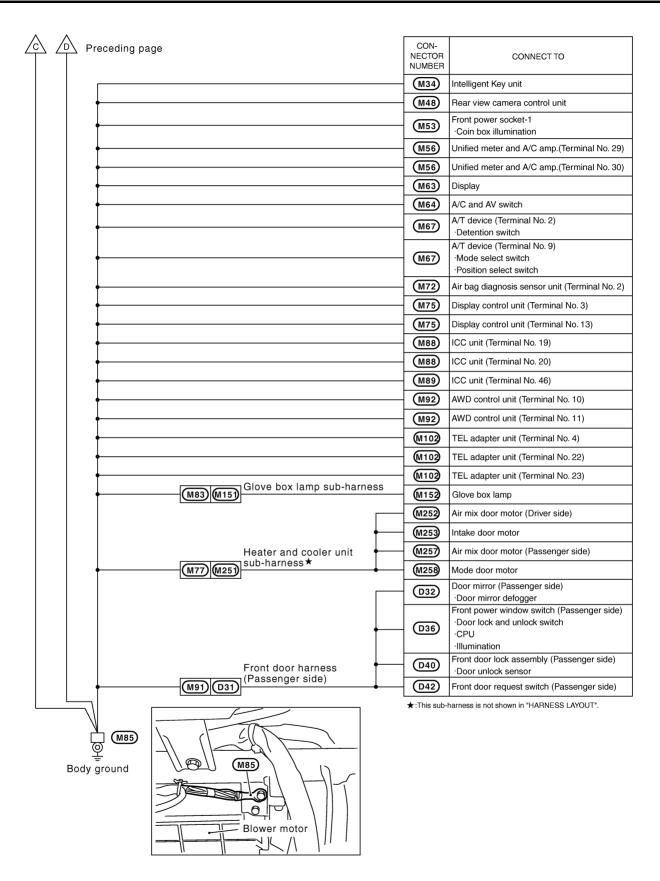
Н



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CKIM0641E

Α

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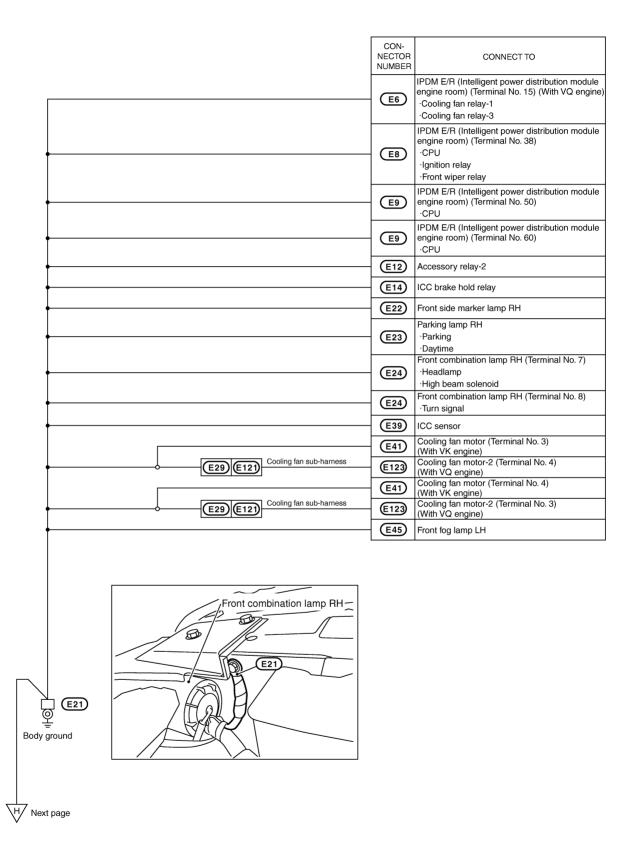
3

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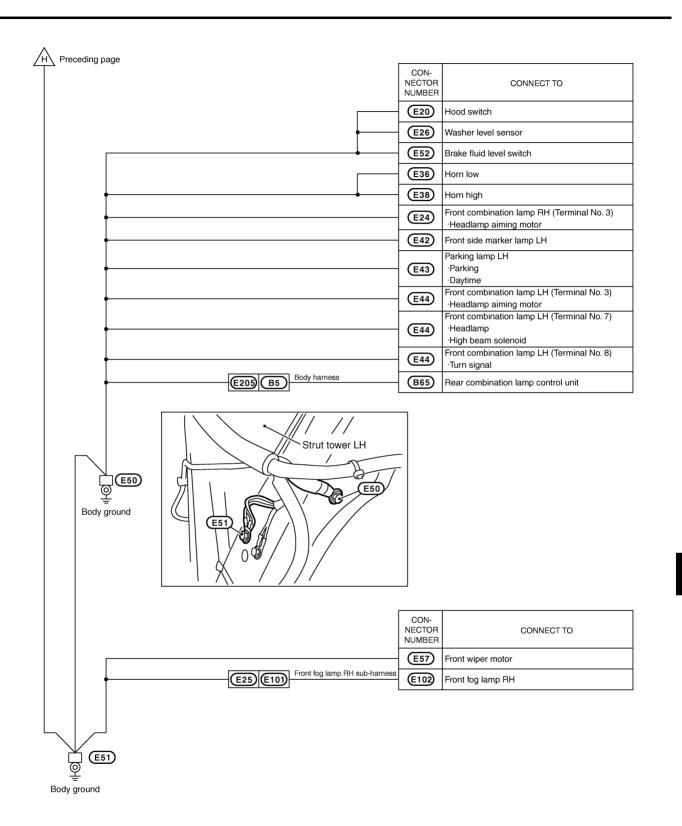
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ENGINE ROOM HARNESS



CKIM0654E



CKIM0655E

Revision: 2006 December PG-33 2006 FX35/FX45

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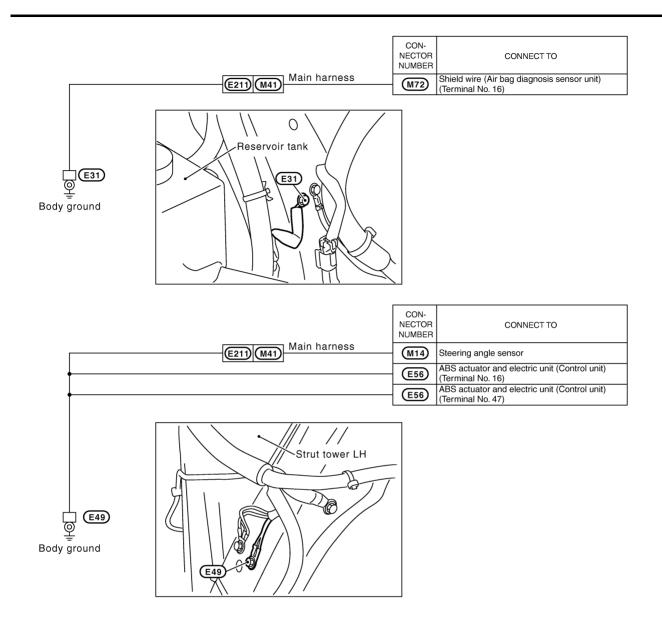
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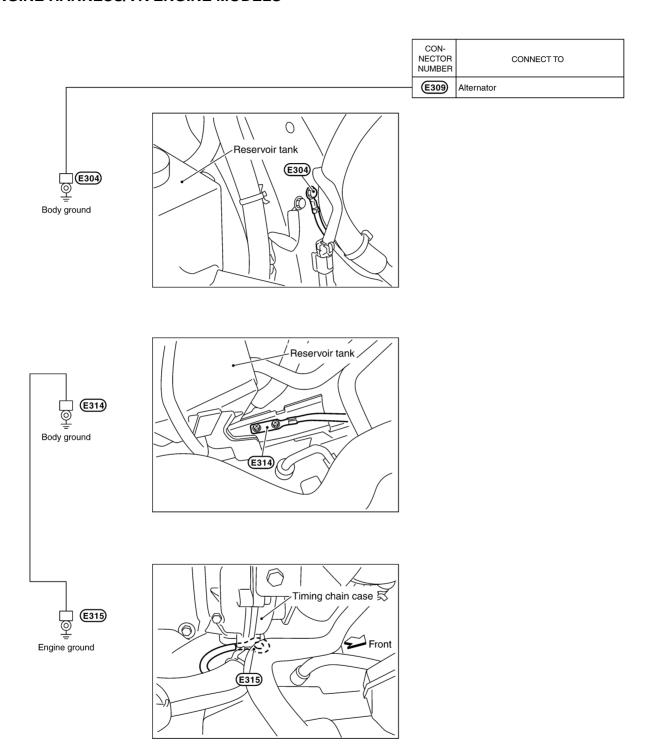
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CKIM0642E

ENGINE HARNESS/VK ENGINE MODELS



CKIM0203E

Revision: 2006 December **PG-35** 2006 FX35/FX45

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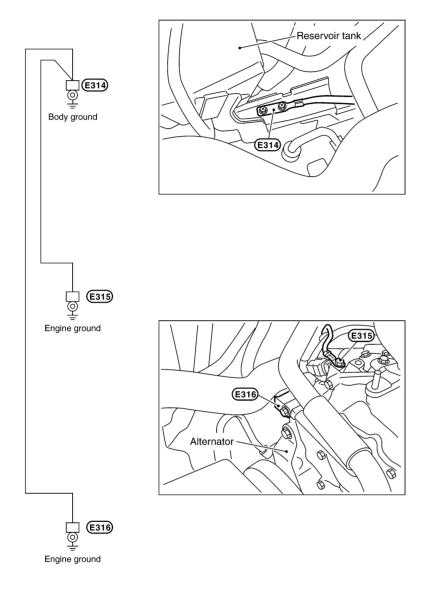
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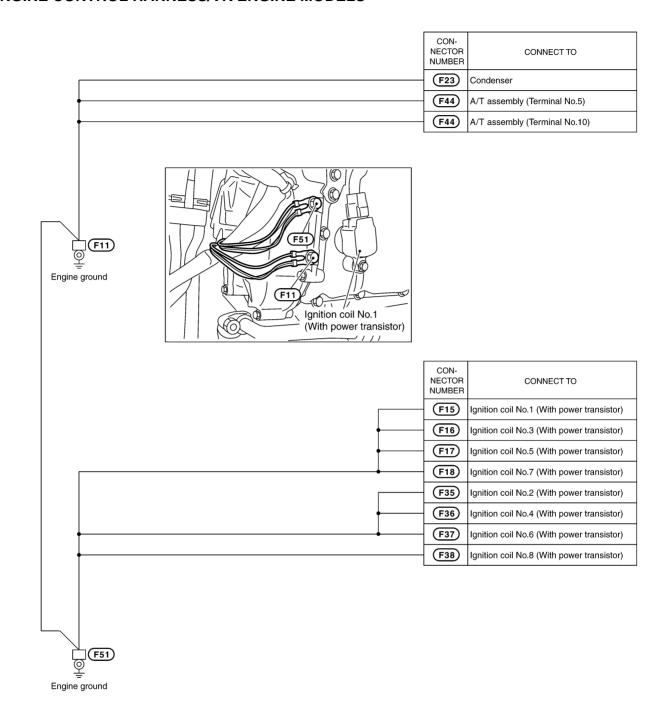
PG

ENGINE HARNESS/VQ ENGINE MODELS



CKIM0204E

ENGINE CONTROL HARNESS/VK ENGINE MODELS



CKIM0408E

Revision: 2006 December PG-37 2006 FX35/FX45

Α

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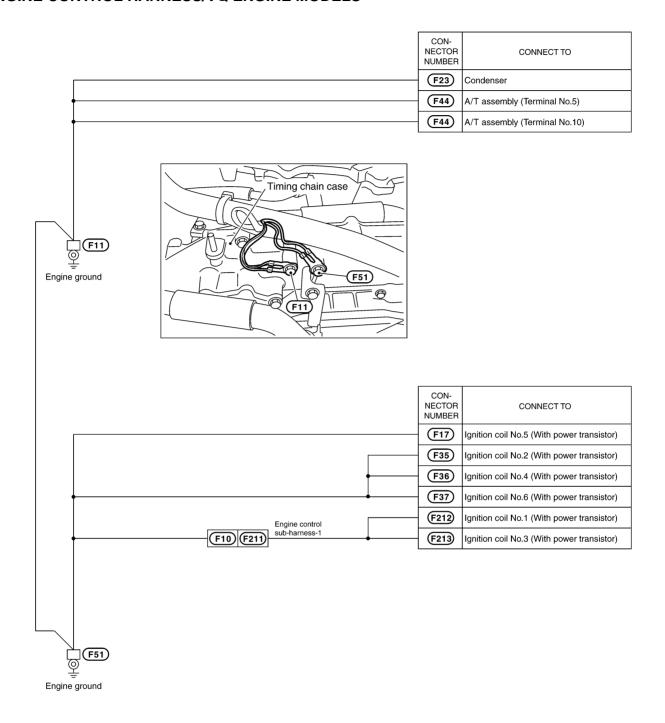
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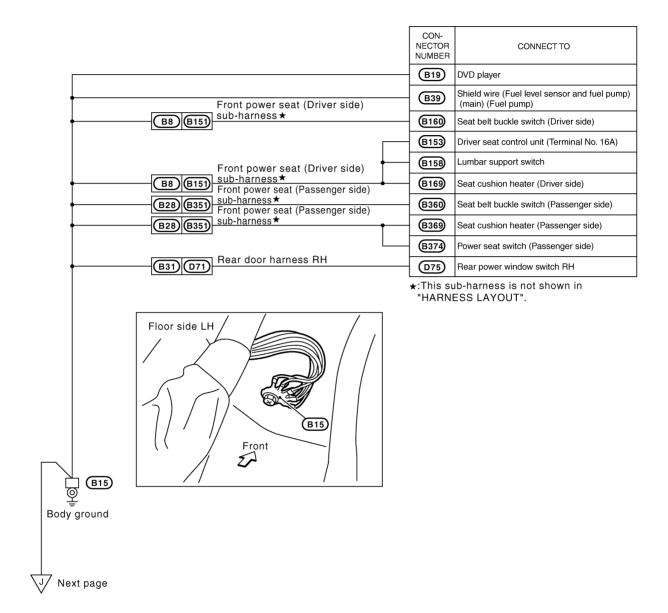
PG

ENGINE CONTROL HARNESS/VQ ENGINE MODELS



CKIM0409E

BODY HARNESS



CKIM0643E

Α

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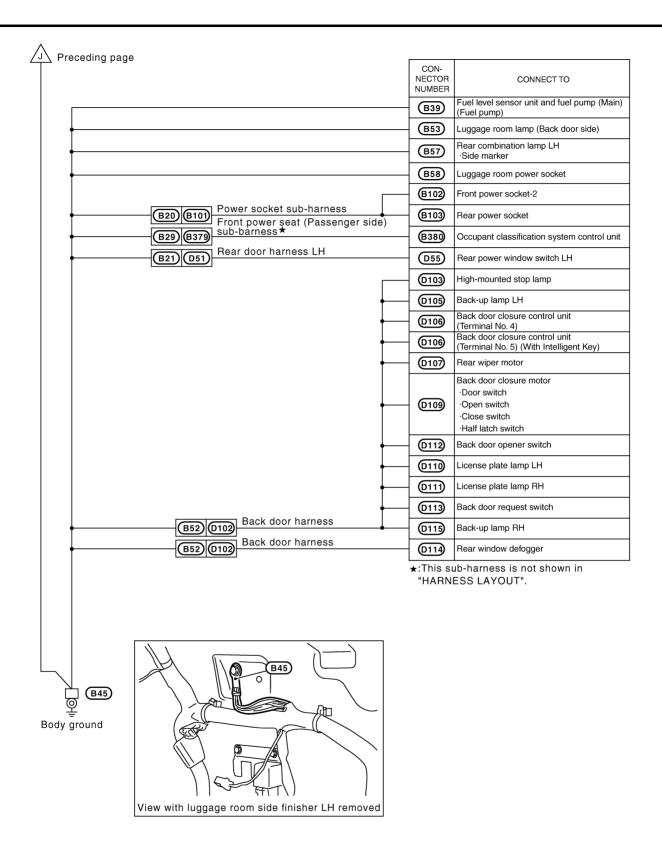
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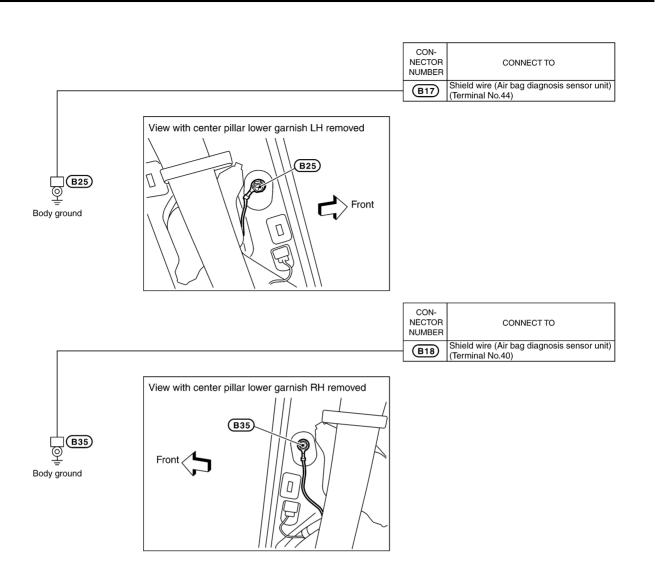
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CKIM0644E



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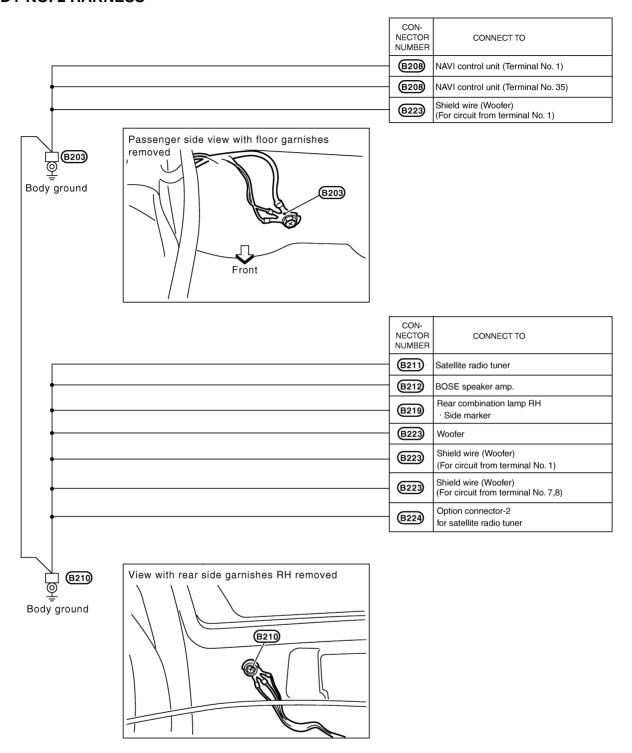
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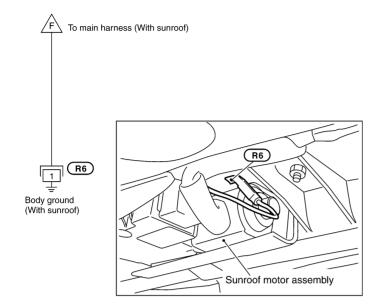
CKIM0209E

BODY NO. 2 HARNESS



CKIM0645E

ROOM LAMP HARNESS



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CKIM0211E

PG

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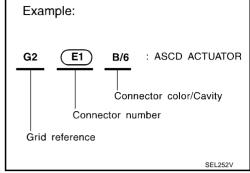
HARNESS PFP:00011

Harness Layout HOW TO READ HARNESS LAYOUT

NKS003GN

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

- Main Harness
- Engine Room Harness (Engine Compartment)
- Engine Control Harness
- Body Harness



To Use the Grid Reference

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

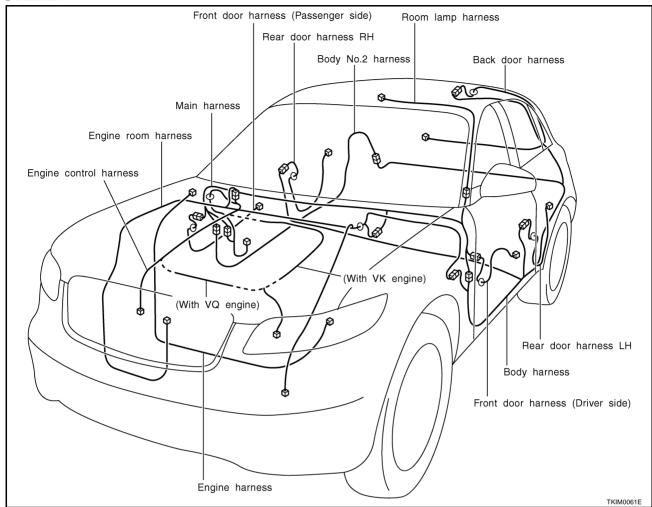
CONNECTOR SYMBOL

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

Connector type	Water p	proof type	Standard type		
	Male	Female	Male	Female	
Cavity: Less than 4 Relay connector	Ø	۵		©	
Cavity: From 5 to 8					
Cavity: More than 9				\Diamond	
Ground terminal etc.	_		Ø		

CKIT0108E

OUTLINE



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Α

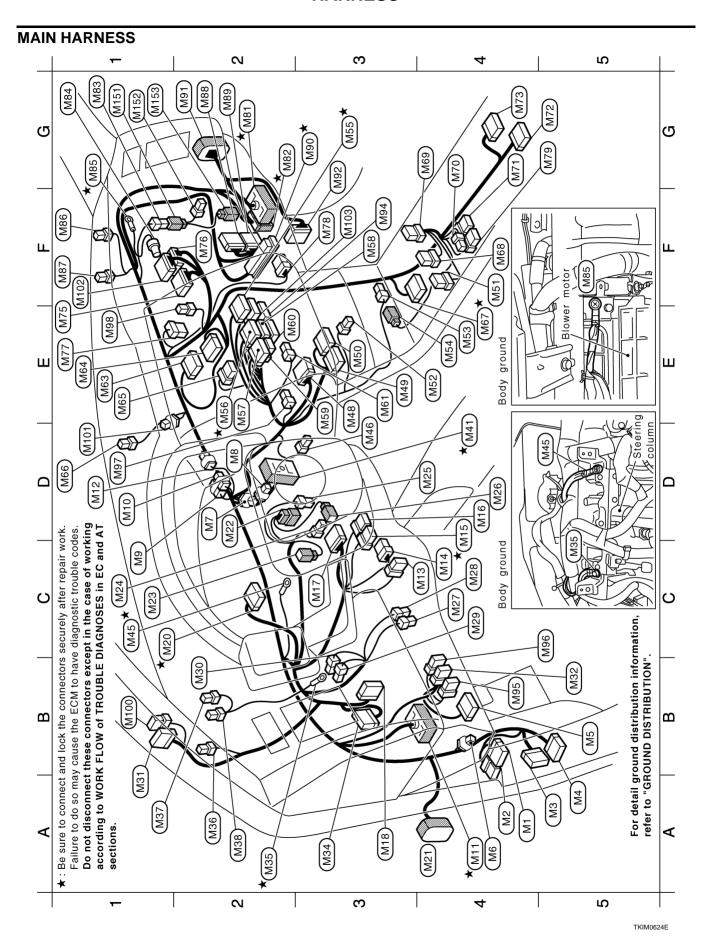
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03 (W46) W/2 : In-vehicle sensor E3 (W48) W/16 : Rear view camera control unit E3 (W49) W/16 : Rear view camera control unit E4 (W52) W/16 : Automatic drive positioner control unit E4 (W52) W/16 : Automatic drive positioner control unit E4 (W53) W/4 : Clock E4 (W53) W/3 : Front power socket-1 E5 (W53) W/10 : Unitied meter and A/C amp. E2 (W53) W/16 : Unitied meter and A/C amp. E2 (W53) W/16 : Unitied meter and A/C amp. E3 (W53) W/16 : Audio unit E3 (W53) W/16 : Audio unit E3 (W53) W/16 : Audio unit E1 (W53) W/16 : Audio unit E1 (W53) W/16 : Audio unit E1 (W54) W/16 : Audio unit E1 (W55) W/10 : ArT device E4 (W57) W/2 : Instrument speaker center E4 (W57) W/10 : Art device E4 (W57) W/2 : Instrument speaker center E5 (W57) W/2 : Instrument speaker center E5 (W57) W/2 : Instrument speaker center E5 (W57) W/2 : Instrument Side (S sensor (2WD models)) E5 (W57) W/2 : Instrument Side (S sensor (2WD models)) E5 (W57) W/2 : Side (S sensor (2WD models)) E7 (W57) W/2 : Side (S sensor (2WD models)) E8 (W57) W/2 : Instrument Side (S sensor (2WD models)) E7 (W57) W/2 : Instrument Side (S sensor (2WD models)) E7 (W57) W/2 : Instrument Side (S sensor (2WD models)) E7 (W57) W/2 : Instrument Side (S sensor (2WD models)) E8 (W57) W/2 : Instrument Side (S sensor (2WD models)) E8 (W57) W/2 : Instrument Side (S sensor (2WD models)) E8 (W57) W/2 : Instrument Side (S sensor (2WD models)) E8 (W57) W/2 : Instrument Side (S sensor (2WD models)) E8 (W57) W/2 : Instrument Side (S sensor (2WD models)) E8 (W5	sections.
A4 (M1 W116 : Fuse block (J/B) A5 (M2 W8 : Fuse block (J/B) A6 (M2 W8 : Fuse block (J/B) A7 (M2 W9 : BCM (Body control module) A8 (M3 W40 : BCM (Body control module) A9 (W12 : Data link connector A1 (W2 : Data link connector A2 (W12 : Diode C1 (W3 W2 : Diode C1 (W3 W2 : Diode C3 (W12 : Diode C4 (W13 GY/6 : ADP steering switch C1 (W2 W2 : Diode C2 (W13 GY/6 : ADP steering switch C3 (W14 W16 : Combination switch (Spiral cable) C3 (W15 C Combination switch (Spiral cable) C4 (W2 W12 C C C C C C C C C C C C C C C C C C C	

TKIM0625E

Revision: 2006 December PG-47 2006 FX35/FX45

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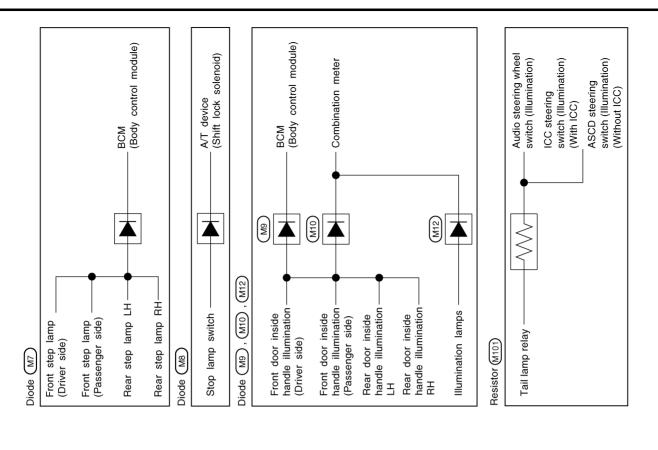
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Failure to do so may cause the ECM to have diagnostic trouble codes. ★: Be sure to connect and lock the connectors securely after repair work.

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

TKIM0626E

sections.

: Audio unit (With satellite radio)

TEL adapter unit

W/32 W/12 Glove box lamp sub-harness

: To (M83)

W/4 W/2 W/2

M151 (M152) M153

9 9

Remote keyless entry receiver

W/4

(86M)

M97

To (R10)

Resistor

: Inside key antenna-2 (Dashboard)

: Glove box lamp

Option connector-1 for audio unit (Without satellite radio)

Snow mode switch

8/M GY/8 BR/4

LDW switch : LDW chime

96W M95

AWD control unit

W/16 W/12

M92 M94

To (D31)

<u>₩</u>

ECM

SMJ SMJ

GY/24

(88W (M90

Front passenger air bag module

To (M151)

Instrument speaker RH

BR/2

Body ground

Sunload sensor

ICC unit ICC unit

W/24

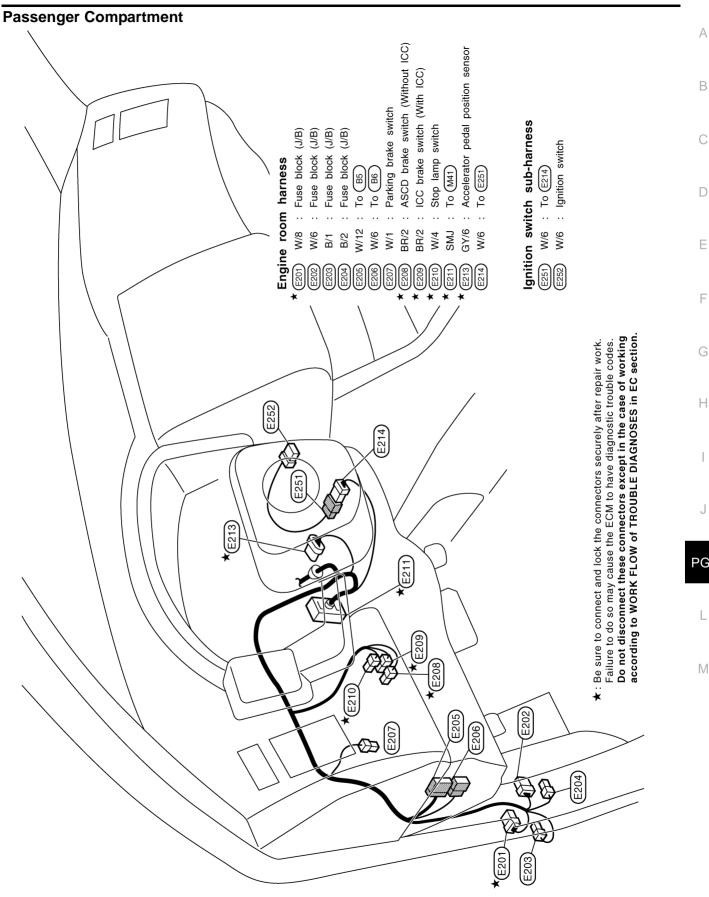
G2

Revision: 2006 December **PG-49** 2006 FX35/FX45

TKIM0627E

C4 * E41 GY/4 : E3 E42 B/2 : D3 E43 GY/3 : E3 E44 B/8 : D5 E45 -/2 :	E4 (E46) GY/2 D3 * (E50) D3 * (E51)	E1 (E52) GY/2 : Brake fluid level switch E3 (E53) B/3 : Pressure sensor E2 (E54) GY/6 : Brake booster D2 (E55) BR/3 : To (E141) F2 (E56) SMJ : ABS actuator and electric unit (Control unit)	# (E62) C 1.74	Front fog lamp RH sub-harness A4 (E10) B/2 : To (E25) A4 (E102) -/2 : Front fog lamp RH Cooling fan sub-harness (With VQ engine) C3 * (E121) DGY/8 : To (E29) B3 * (E122) GY/4 : Cooling fan motor-1 C3 * (E123) GY/4 : Cooling fan motor-2	ICC sub-harness D2 (E141) BR/3 : To (E55) E3 (E142) B/3 : Brake pressure sensor ★: 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.
Engine room harness E1 B/2 : Fusible link holder E2 GY/2 : Fusible link holder E3 B/2 : IPDM E/R (Intelligent power distribution module engine E4 W/4 : IPDM E/R (Intelligent power distribution module engine)	GY/16 : W/12 : W/16 :	F1	GY/9 :: 9/8/8 :: 6/8/9 :: 6/8/	* EESS B R 2	C2 (E31) — : Body ground A2 (E32) B/3 : Refrigerant pressure sensor A2 (E33) GY/2 : Front wheel sensor RH B3 (E34) B/2 : Ambient sensor C3 (E35) B/1 : Horn low C4 (E37) B/1 : Horn high C4 (E38) B/1 : Horn high C4 (E38) B/1 : Horn high C4 (E38) GY/6 : ICC sensor C5 (E38) GY/6 : ICC sensor C6 (E38) GY/6 : ICC sensor

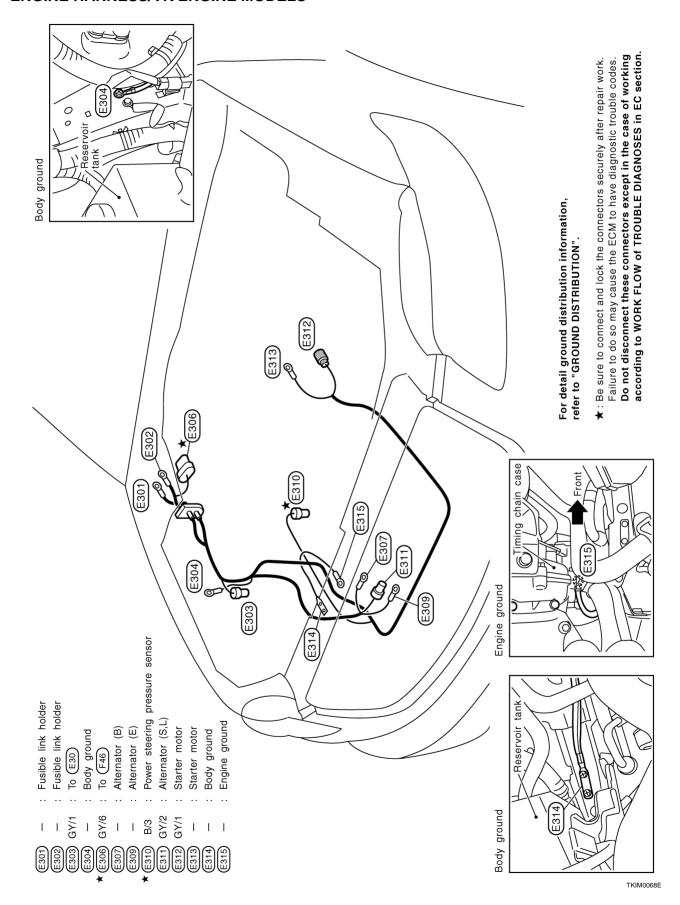
TKIM0628E



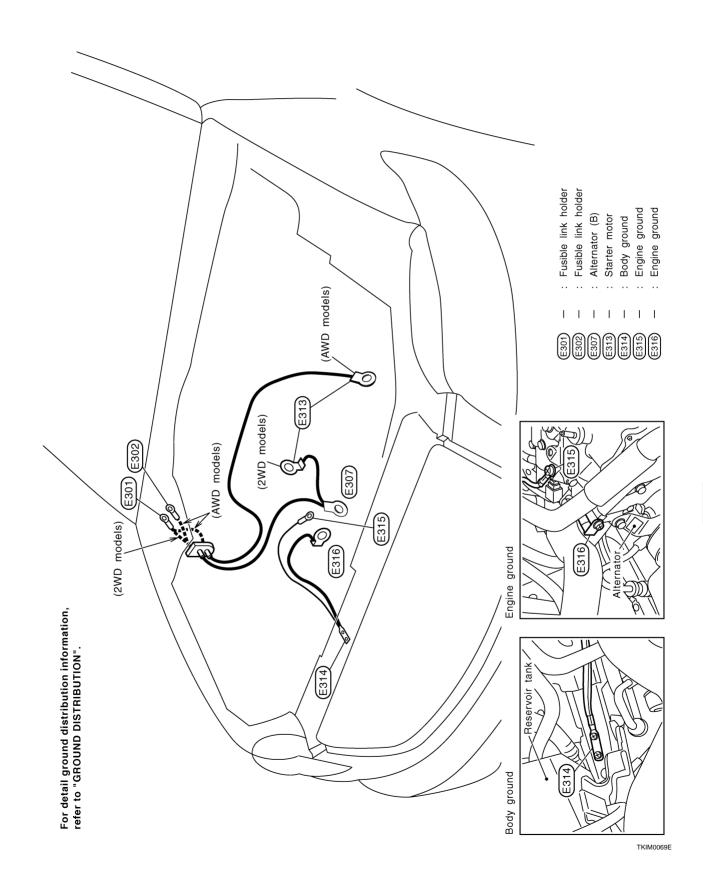
TKIM0629E

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ENGINE HARNESS/VK ENGINE MODELS



ENGINE HARNESS/VQ ENGINE MODELS



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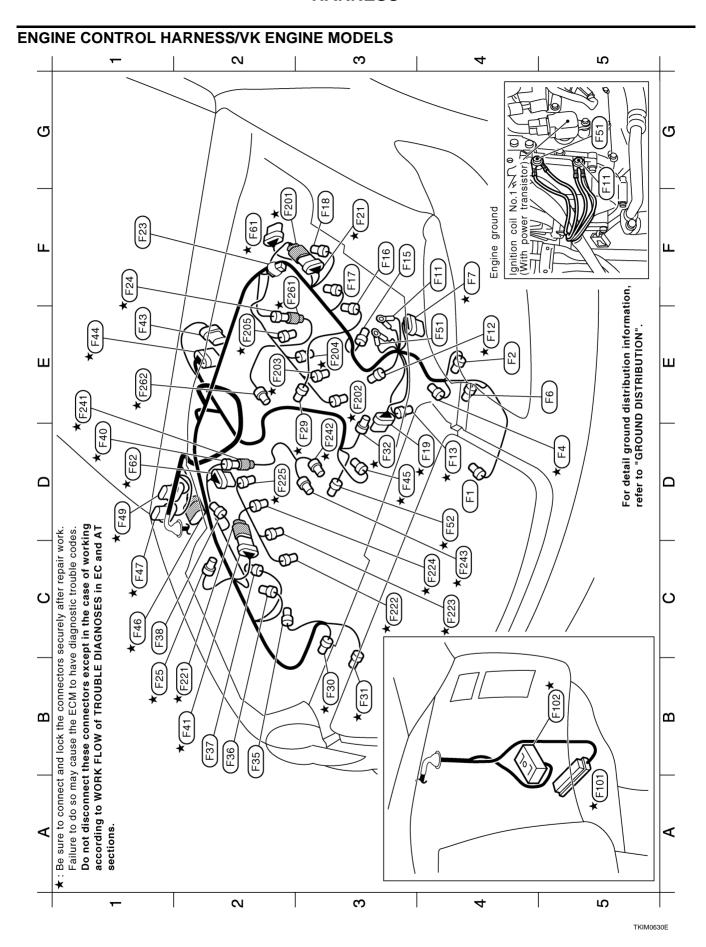
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D Е F sections Н

Air fuel ratio (A/F) sensor 1 (Bank 1) Air fuel ratio (A/F) sensor 1 (Bank 2) : Heated oxygen sensor 2 (Bank 2) F2 * (F61) D4 * (F52) F62 D1 **★** (A5 ★ (L

: To (M82) ECM SMJ SMJ F102 F101 B5 **★** (

Engine control sub-harness-1

Intake valve timing control position sensor (Bank 1)

Camshaft position sensor (PHASE)

F4

D5 ***** (

F6

F7 F4 ★ (

F2

Compressor (Magnet clutch)

: Oil pressure switch

Engine control harness

Compressor (ECV solenoid valve)

Mass air flow sensor

Engine ground

Intake valve timing control solenoid valve (Bank 1)

LGY/2

E4 ***** / ¥ 40

F4

GY/3

33

Ignition coil No.3 (With power transistor) ignition coil No.5 (With power transistor) Ignition coil No.7 (With power transistor)

Electric throttle control actuator

Condenser To (F201)

> W/2 B/2

F23

Ξ

F24 F25 F29 (F30

FI *

DGY/6

B/6

F19 F21

04 ★ (F3 *

GY/3

F18

E3

GY/3

GY/3

F16

F3

To (F261)

LGY/2

B1 ★(D3 **★** (B3 **★** (

B/2

Ignition coil No.1 (With power transistor)

: To (F21) 9/5 F2 * (F201) E3 ★ (i

Fuel injector No.1 GY/2 GY/2 E2 ★ (

: Fuel injector No.3

: Fuel injector No.5 : Fuel injector No.7 GY/2 GY/2 F205) E3 ★ (i E2 * (

Engine control sub-harness-2

: Fuel injector No.2 : To (F41) GY/2 GY/2 9/9 (F221) B2 **★** (C3 ¥ € C4 ★ C

: Fuel injector No.4 : Fuel injector No.6 : Fuel injector No.8 GY/2 GY/2 F225) C4 ★ C D2 * (1

Intake valve timing control position sensor (Bank 2)

Intake valve timing control solenoid valve (Bank 2)

LGY/2

F31

B3 **★** (

B/3

Ignition coil No.2 (With power transistor)

GY/3 GY/3 GY/3

F36

B2

G/4

F32

D3 **★** (

Heated oxygen sensor 2 (Bank 1)

Ignition coil No.6 (With power transistor) Ignition coil No.4 (With power transistor)

gnition coil No.8 (With power transistor)

GY/3

F38 F40

 \overline{c}

F37

B2

Crankshaft position sensor (POS)

To (E306) To (E17)

GY/6

F46

GY/6

F47

Engine ground

F5-

To (E19)

B/8

F49

Transfer assembly

To (F221) To (F241)

DGY/6

F41

B2 [★] (

B/4

* 10

A/T assembly

F44) DGY/10:

El * D3 **★** (C1 * (, * LO

F45

B/8

F43)

Ш

EVAP canister purge volume control solenoid valve

VIAS control solenoid valve

Engine control sub-harness-3

: Knock sensor (Bank 1) : Knock sensor (Bank : To (F40) B/4 72 72 E1 * (F241) F243) D3 ¥ € ر¥ ¥ ک

Engine control sub-harness-4

SB/2 : To (F24) F2 * (F261) El ¥ر

: Engine coolant temperature sensor GY/2 (F262)

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

TKIM0631E

PG-55 2006 FX35/FX45 Revision: 2006 December

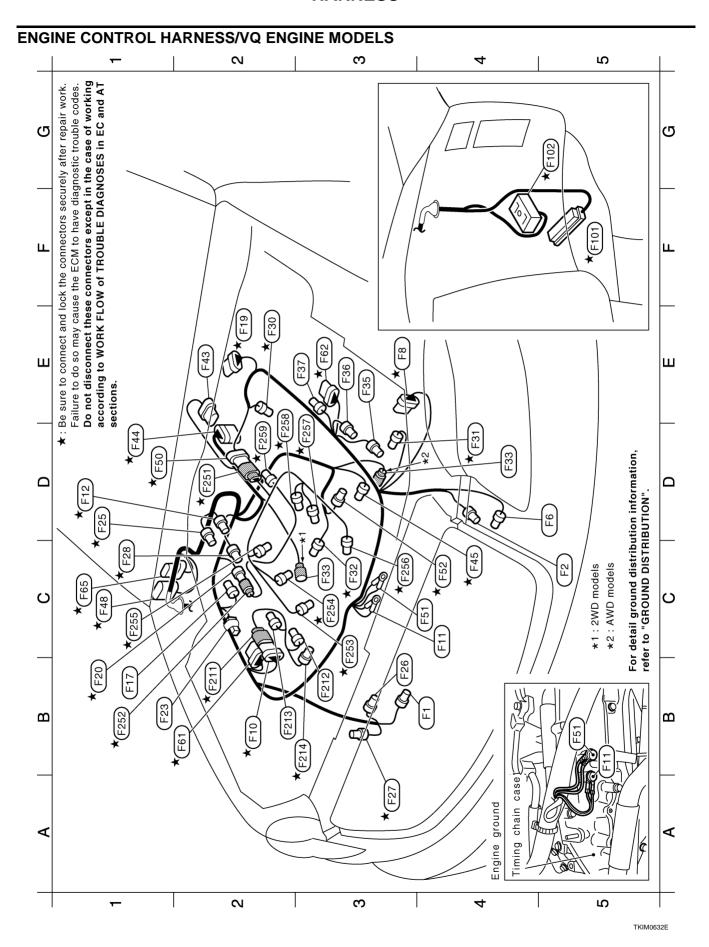
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TKIM0633E

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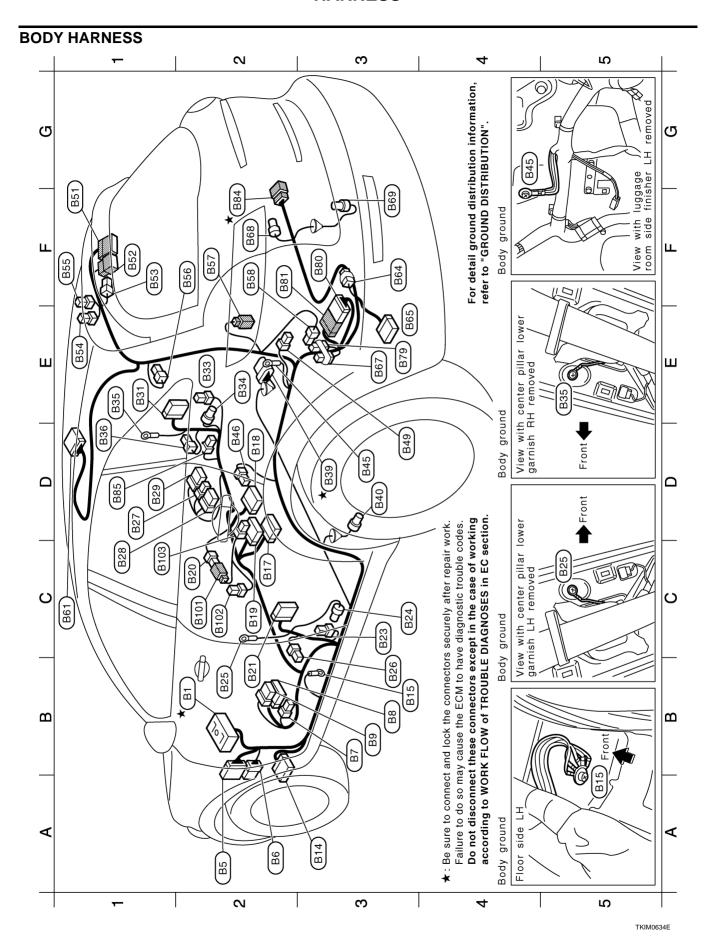
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according to WORK FLOW of TROUBLE DIAGNOSES in EC section. Do not disconnect these connectors except in the case of working Failure to do so may cause the ECM to have diagnostic trouble codes. ★: Be sure to connect and lock the connectors securely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

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M

To (M11)

harness SMJ

Body

(E

B2 [★] (

B2 B6

Front LH side air bag module Front power seat (Driver side) (E205) (E206) 0 <u></u> W/12 9/M

Front power seat (Driver side) BCM (Body control module) W/18 W/15 8/M Y/2 B14

88 88 68

B3 A2 B3

B7

Air bag diagnosis sensor unit Air bag diagnosis sensor unit Body ground Y/12 Y/12 B15 B18 B17

DVD player To (B101) To (D51) -/16 W/18 W/3 B21 (B20) B19

LH side air bag (Satellite) sensor Front LH seat belt pre-tensioner Body ground Υ/2 ۲/2 B23 B24 B25

Front door switch (Driver side) W/3 Y/2 B26 (B27

Front power seat (Passenger side) Front power seat (Passenger side) Front RH side air bag module 9/M 8/M B29 B28

RH side air bag (Satellite) sensor Front RH seat belt pre-tensioner To (D71) W/18 Υ/2 ۲/2 834 B33 B34

Fuel level sensor unit and fuel pump (Main) Front door switch (Passenger side) Body ground GY/5 W/3 B35 B36

Fuel level sensor unit (Sub) Body ground GY/2 B40 B45 (B39)

Luggage room lamp (Body side) Rear door switch LH W/3 W/3 B46 B49

To (D101) W/16 9/M 83 B52

To (D102) OR/2 W/3 B54) B53 D3 D2 D3 F1 F1 E1

Luggage room lamp (Back door side) RH side curtain air bag module LH side curtain air bag module Fweeter LH BR/2 Υ/2 B56 B55 F2 F2 F2 F2

Luggage room power socket Rear combination lamp LH B58 B58

DVD display GY/1 B61

Rear combination lamp control unit Not used W/12 B64 B67 B65

E3

Inside key antenna-3 (Luggage room) Rear wheel sensor Diode GY/2 W/2

B68 B69

F2 F3

To (B81) Diode SB/4 W/12 W/2 B79 880

W/12 GY/6 **4/**W 88 B84 888 EE 57 7 , 5

To (B80)

To (B216)

To (B217)

Power socket sub-harness

: To (B20)

W/3

B101

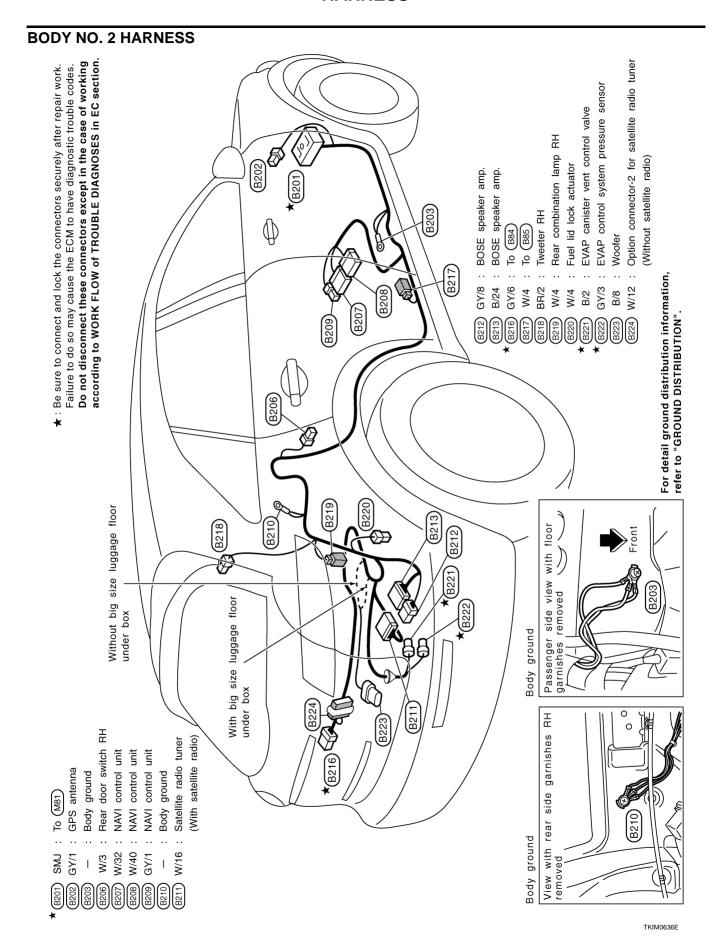
2 2 2

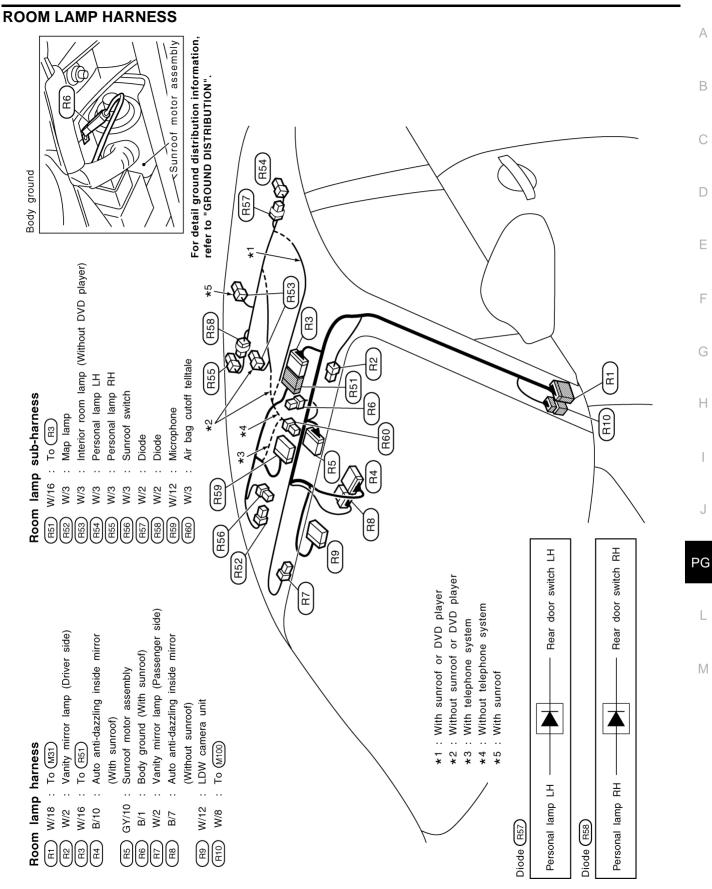
Front power socket-2 Rear power socket B/2 B/2 B103

Diode (B67), (B79)

Back door closure motor (Door switch) B67 B79 Luggage room lamp Luggage room lamp (Back door side) Body side)

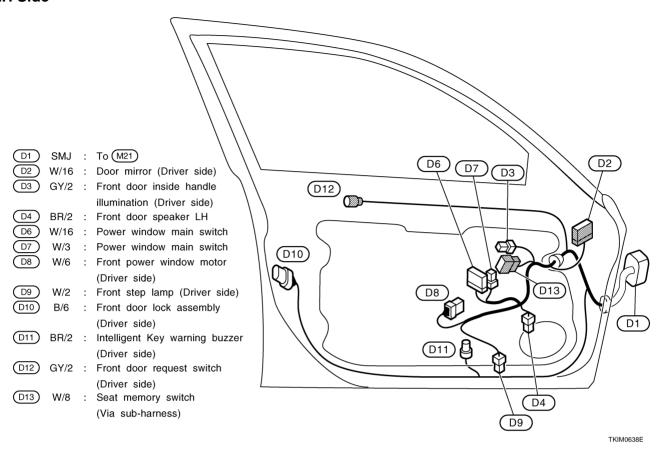
TKIM0635E



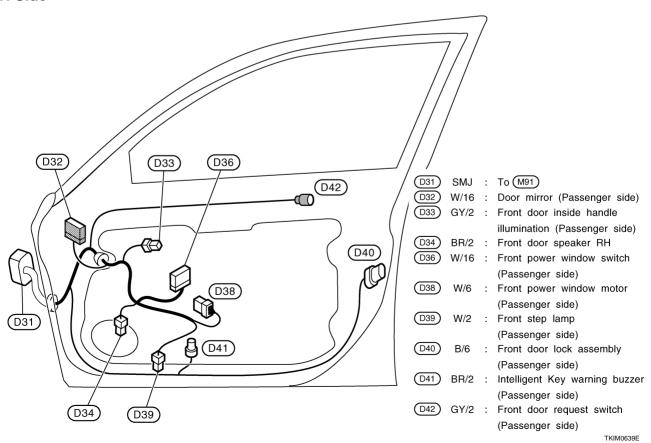


TKIM0637E

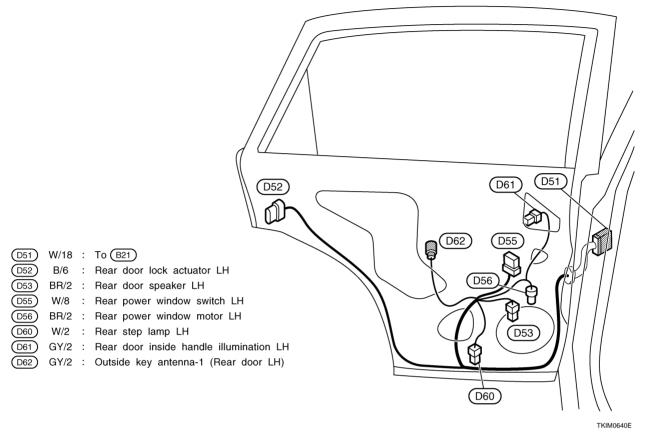
FRONT DOOR HARNESS LH Side



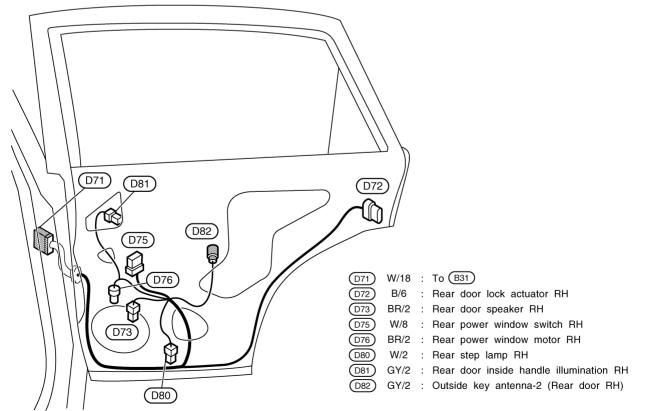
RH Side



REAR DOOR HARNESS LH Side



RH Side



TKIM0641E

PG

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Α

В

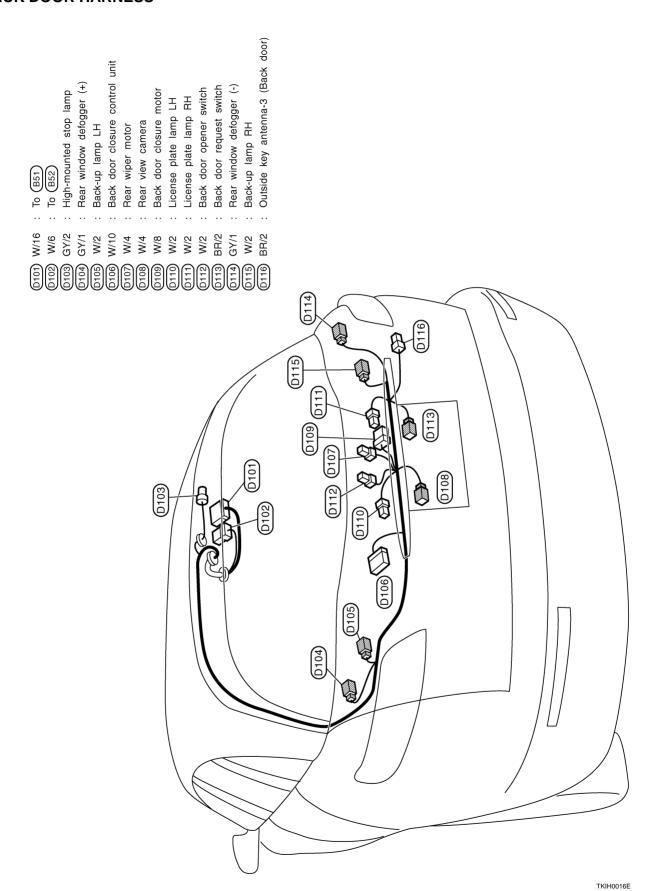
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BACK DOOR HARNESS



Wiring Diagram Codes (Cell Codes)

NKS003GO

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

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

Section	Wiring Diagram Name		
ATC	Air Conditioner		
EC	Air Fuel Ratio Sensor 1 Bank 1		
EC	Air Fuel Ratio Sensor 1 Bank 2		
EC	Air Fuel Ratio Sensor 1 Heater Bank 1		
EC	Air Fuel Ratio Sensor 1 Heater Bank 2		
EC	Accelerator Pedal Position Sensor		
EC	Accelerator Pedal Position Sensor		
EC	Accelerator Pedal Position Sensor		
EC	Automatic Speed Control Device (ASCD) Brake Switch		
EC	Automatic Speed Control Device (ASCD) Steering Switch		
EC	Automatic Speed Control Device (ASCD) Brake Switch		
EC	Automatic Speed Control Device (ASCD) Indicator		
DI	A/T Indicator Lamp		
AV	Audio		
SE	Automatic Drive Positioner		
LT	Automatic Light System		
TF	AWD Control System		
BL	Back Door Closure System		
LT	Back-Up Lamp		
EC	Brake Switch		
AT	CAN Communication Line		
EC	CAN Communication Line		
LAN	CAN System		
SC	Charging System		
DI	Warning Chime		
DI	Clock		
LT	Combination Switch		
AV	Audio Visual Communication Line		
DI	Compass		
EC	Cooling Fan Control		
	Power Door Lock		
	Rear Window Defogger		
	Headlamp - With Daytime Light System		
	ECM Power Supply for Back-Up		
	Engine Coolant Temperature Sensor		
	Electric Throttle Control Function		
	Electric Throttle Control Motor Relay		
	Electric Throttle Control Motor		
	Front Fog Lamp Fuel Pump		
AT	A/T Fluid Temperature Sensor Circuit		
	ATC EC		

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Code	Section	Wiring Diagram Name		
FTTS	EC	Fuel Tank Temperature Sensor		
FUELB1	EC	Fuel Injection System Function (Bank 1)		
FUELB2	EC	Fuel Injection System Function (Bank 2)		
H/AIM	LT	Headlamp Aiming Control System		
H/LAMP	LT	Headlamp		
H/PHON	AV	Hands Free Telephone		
HORN	WW	Horn		
HSEAT	SE	Heated Seat		
I/KEY	BL	Intelligent Key System		
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)		
IATS	EC	Intake Air Temperature Sensor		
ICC	ACS	Intelligent Cruise Control System		
ICC/BS	EC	ICC Brake Switch		
ICC/SW	EC	ICC Steering Switch		
ICCBOF	EC	ICC Brake Switch		
IGNSYS	EC	Ignition System		
ILL	LT	Illumination		
INF/D	AV	Vehicle Information and Integrated Switch System		
INJECT	EC	Injector		
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1		
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2		
IVCSB1	EC	Intake Valve Timing Control Position Sensor Bank 1		
IVCSB2	EC	Intake Valve Timing Control Position Sensor Bank 2		
IVTB1	EC	Intake Valve Timing Control System (Bank 1)		
IVTB2	EC	Intake Valve Timing Control System (Bank 2)		
KEYLES	BL	Remote Keyless Entry System		
KS	EC	Knock Sensor		
LDW	DI	Lane Departure Warning System		
M/ANT	AV	Manual Antenna		
MAFS	EC	Mass Air Flow Sensor		
MAIN	AT	Main Power Supply and Ground Circuit		
MAIN	EC	Main Power Supply and Ground Circuit		
MES	AV	Mobile Entertainment System		
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges		
MIL/DL	EC	MIL & Data Link Connectors		
MIRROR	GW	Power Door Mirror		
MMSW	AT	Manual Mode Switch		
NATS	BL	Nissan Anti-Theft System		
NAVI	AV	Navigation System		
NONDTC	AT	Non-Detective Items		
O2H2B1	EC	Heated Oxygen Sensor 2 Heater Bank 1		
O2H2B2	EC	Heated Oxygen Sensor 2 Heater Bank 2		
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 1		
O2S2B2	EC	Heated Oxygen Sensor 2 Bank 2		

Code	Section	Wiring Diagram Name		
P/SCKT	WW	Power Socket		
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve		
PHASE	EC	Camshaft Position Sensor (PHASE)		
PHSB1	EC	Camshaft Position Sensor (PHASE) (Bank 1)		
PHSB2	EC	Camshaft Position Sensor (PHASE) (Bank 2)		
PNP/SW	AT	Park/Neutral Position Switch		
PNP/SW	EC	Park/Neutral Position Switch		
POS	EC	Crankshaft Position Sensor (CKPS) (POS)		
POWER	PG	Power Supply Routing		
PRE/SE	EC	EVAP Control System Pressure Sensor		
PS/SEN	EC	Power Steering Pressure Sensor		
R/VIEW	DI	Rear View Camera Control System		
ROOM/L	LT	Interior Room Lamp		
RP/SEN	EC	Refrigerant Pressure Sensor		
SEAT	SE	Power Seat		
SEN/PW	EC	Sensor Power Supply		
SHIFT	AT	A/T Shift Lock System		
SNOWSW	EC	Snow Mode Switch		
SROOF	RF	Sunroof		
SRS	SRS	Supplemental Restraint System		
START	SC	Starting System		
STOP/L	LT	Stop Lamp		
STSIG	AT	Start Signal Circuit		
T/WARN	WT	Low Tire Pressure Warning System		
TAIL/L	LT	Parking, License and Tail Lamps		
TPS1	EC	Throttle Position Sensor (Sensor 1)		
TPS2	EC	Throttle Position Sensor (Sensor 2)		
TPS3	EC	Throttle Position Sensor		
TRNSCV	BL	Homelink Universal Transceiver		
TURN	LT	Turn Signal and Hazard Warning Lamp		
VDC	BRC	Vehicle Dynamics Control System		
VEHSEC	BL	Vehicle Security System		
VENT/V	EC	EVAP Canister Vent Control Valve		
VIAS	EC	Variable Induction Air Control System		
VIAS/V	EC	VIAS Control Solenoid Valve		
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)		
WARN	DI	Warning Lamps		
WINDOW	GW	Power Window		
WIP/R	WW	Rear Wiper and Washer		
WIPER	WW	Front Wiper and Washer		

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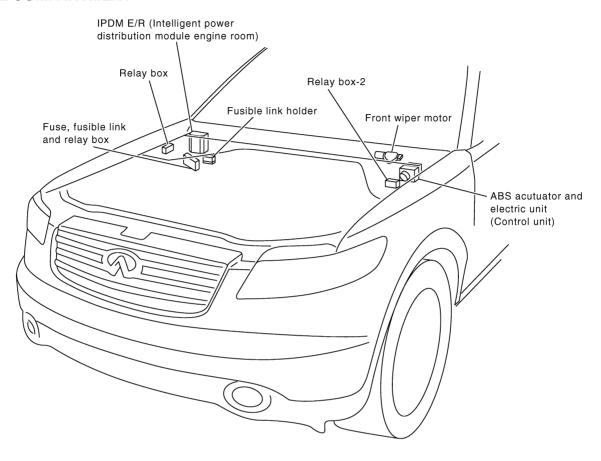
ELECTRICAL UNITS LOCATION

PFP:25230

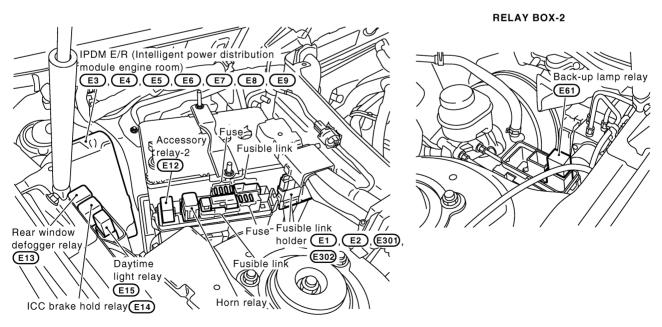
Electrical Units Location ENGINE COMPARTMENT

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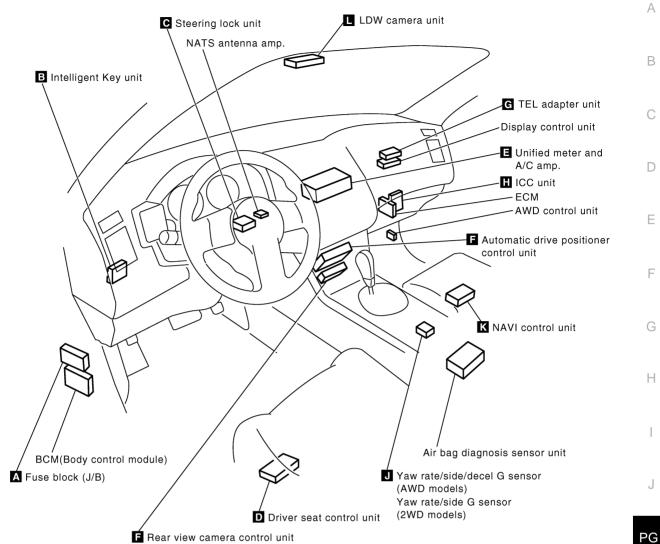
NKS003GP

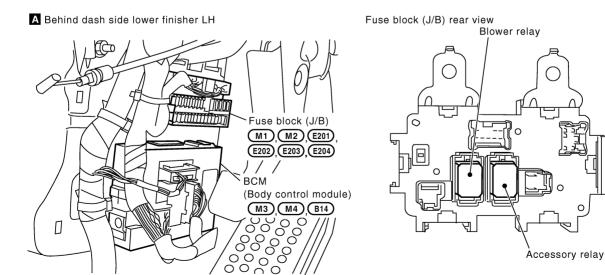


FUSE, FUSIBLE LINK AND RELAY BOX



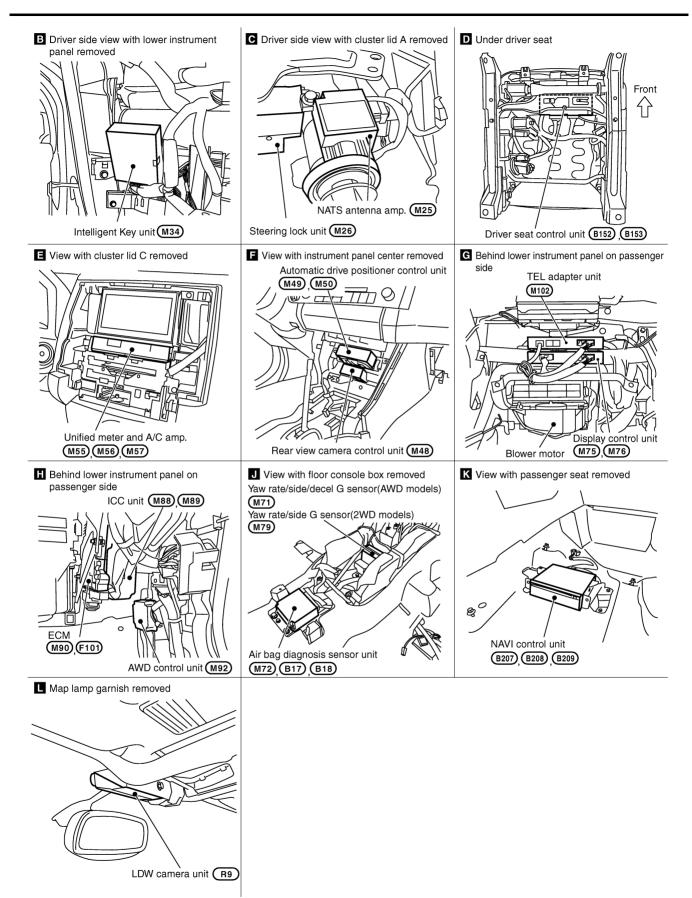
PASSENGER COMPARTMENT



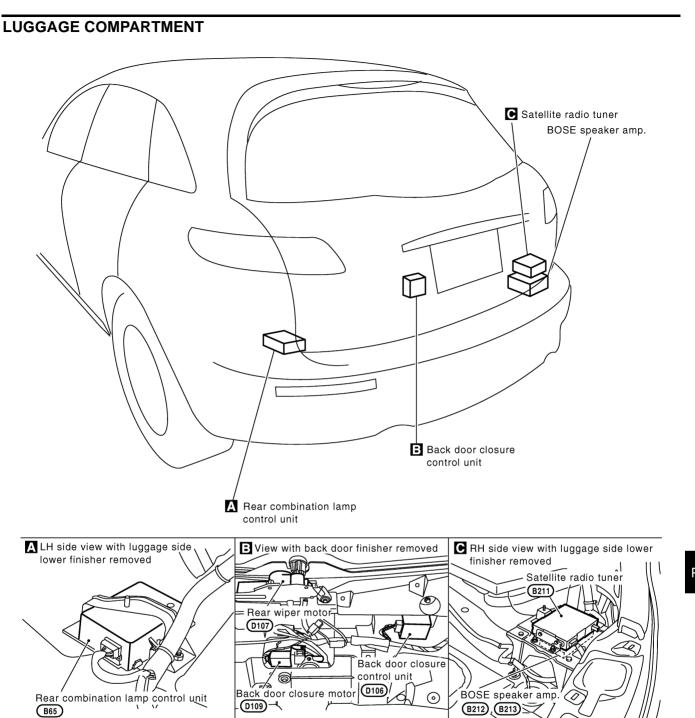


CKIM0647E

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CKIM0648E



CKIM0649E

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HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:00011

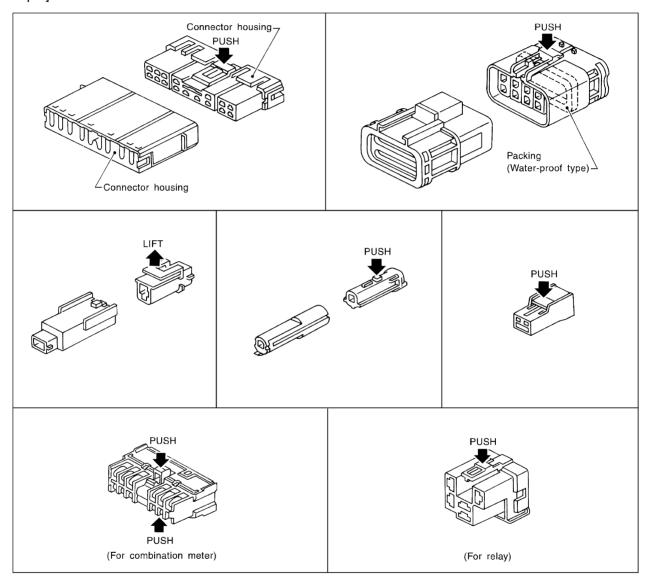
DescriptionHARNESS CONNECTOR (TAB-LOCKING TYPE)

NKS003GQ

- 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 figure below.

CAUTION:

Never pull the harness or wires when disconnecting the connector. [Example]



SEL769DA

HARNESS CONNECTOR

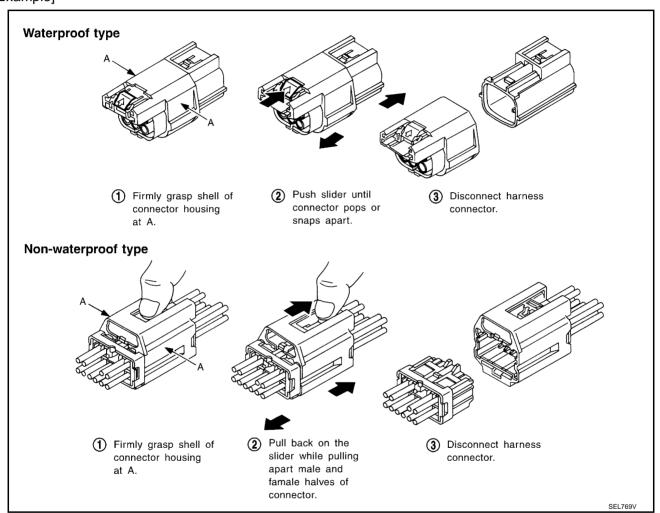
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

CAUTION:

- Never pull the harness or wires when disconnecting the connector.
- Be careful not to damage the connector support bracket when disconnecting the connector.

[Example]



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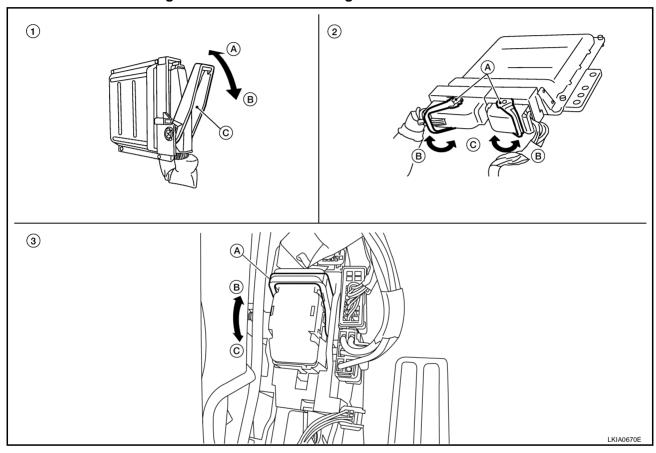
HARNESS CONNECTOR

HARNESS CONNECTOR (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.

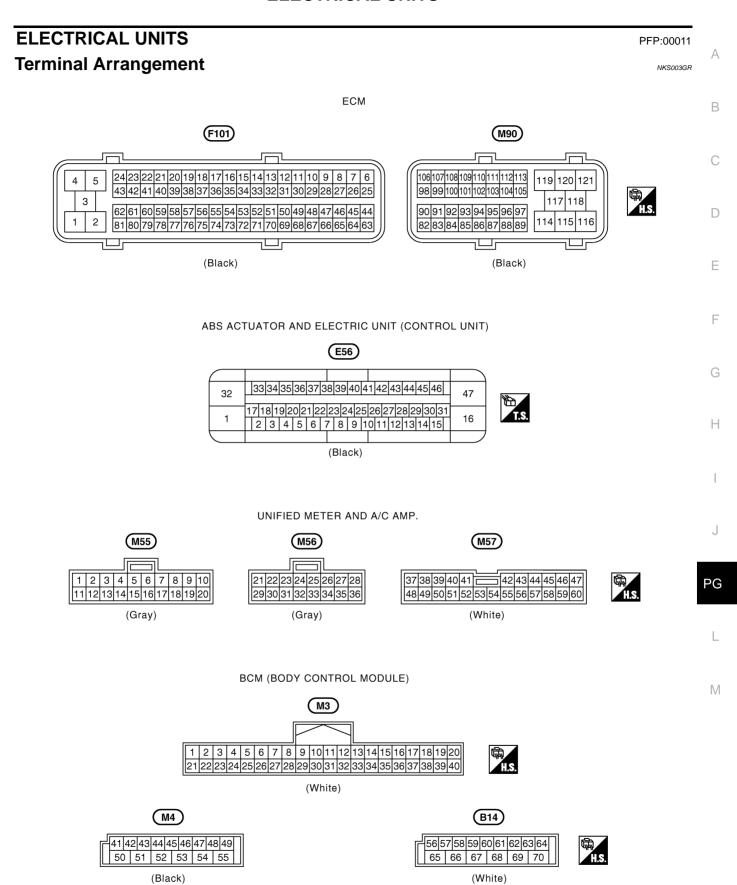


- 1. Control unit with single lever
 - A. Fasten
 - B. Loosen
 - C. Lever

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

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

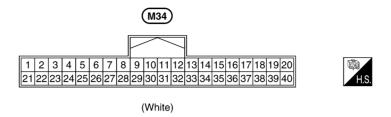
ELECTRICAL UNITS



CKIM0650E

ELECTRICAL UNITS

INTELLIGENT KEY UNIT



ICC UNIT



CKIM0218E

SMJ (SUPER MULTIPLE JUNCTION)

SMJ (SUPER MULTIPLE JUNCTION) PFP:B4341 Α **Terminal Arrangement** NKS003GS В **MAIN HARNESS** (M41) (White) (M11)(White) (M81) (White) D 76K _{77K} 76J 78J | 79J | 80J | 77G | 78G | 79G | 80G | 78K | 79K | 80K 77J 72G 73G 74G 75G 74J 73K 74K 72J 73J 72K 71K 71.1 [60J 61J 62J 63J 64J 65J 66J 67J 68J 69J 70J] 51J 52J 53J 54J 55J 56J 57J 58J 59J 60G|61G|62G|63G|64G|65G|66G|67G|68G|69G|70G| 51G|52G|53G|54G|55G|56G|57G|58G|59G| F 51K 52K 53K 54K 55K 56K 57K 58K 59K 40J 41J 42J 43J 44J 45J 46J 47J 48J 49J 50J 40K 41K 42K 43K 44K 45K 46K 47K 48K 49K 50K 31J 32J 33J 34J 35J 36J 37J 38J 39J 31K 32K 33K 34K 35K 36K 37K 38K 39K 20J 21J 22J 23J 24J 25J 26J 27J 28J 29J 30J 11J 12J 13J 14J 15J 16J 17J 18J 19J 20K 21K 22K 23K 24K 25K 26K 27K 28K 29K 30K 11K 12K 13K 14K 15K 16K 17K 18K 19K 6J 7G | 8G 9G | 10G 7J 8J 9J 10J 7K 8K 9K 10K G 2G 3G 4G 5G 2J 3J 4J 5J 2K 3K 4K 1J 1K Н 1G 1J 1K 2G 3G 4G 5G 3J 4J 2K 3K 4K 8G 9G | 10G 7J 7K 8K 9K 7G 8J 9J 10J 10K 6K

11J 12J 13J 14J 15J 16J 17J 18J 19J

31J 32J 33J 34J 35J 36J 37J 38J 39J 40J 41J 42J 43J 44J 45J 46J 47J 48J 49J 50J

51J 52J 53J 54J 55J 56J 57J 58J 59J 60J 61J 62J 63J 64J 65J 66J 67J 68J 69J 70J

72J 73J 74J 75J

77J | 78J | 79J | 80J

(White)

71J

76J

(B1)

72G 73G 74G 75G

| 77G | 78G | 79G | 80G

(White)

ENGINE ROOM HARNESS

76G

(E211)

PG

J

M

31K 32K 33K 34K 35K 36K 37K 38K 39K 40K 41K 42K 43K 44K 45K 46K 47K 48K 49K 50K

73K 74K 75K

(White)

78K | 79K

71K

76K

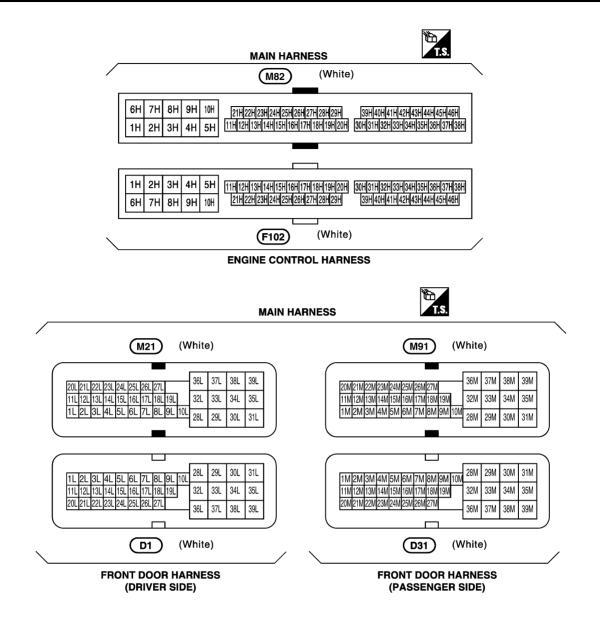
(B201)

72K

77K

CKIM0651E

SMJ (SUPER MULTIPLE JUNCTION)



CKIM0220E

STANDARDIZED RELAY

STANDARDIZED RELAY

PFP:00011

Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

NKS003GT

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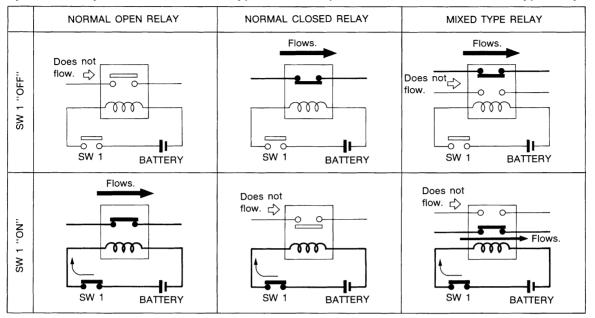
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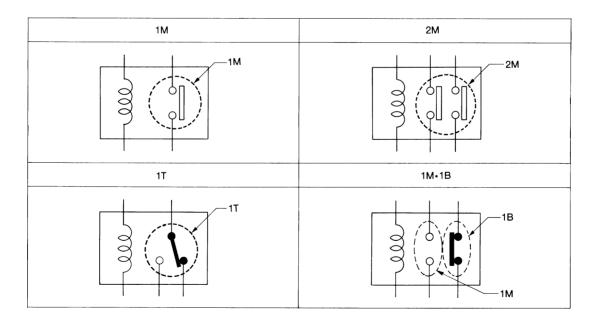
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPE OF STANDARDIZED RELAYS

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



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SEL882H

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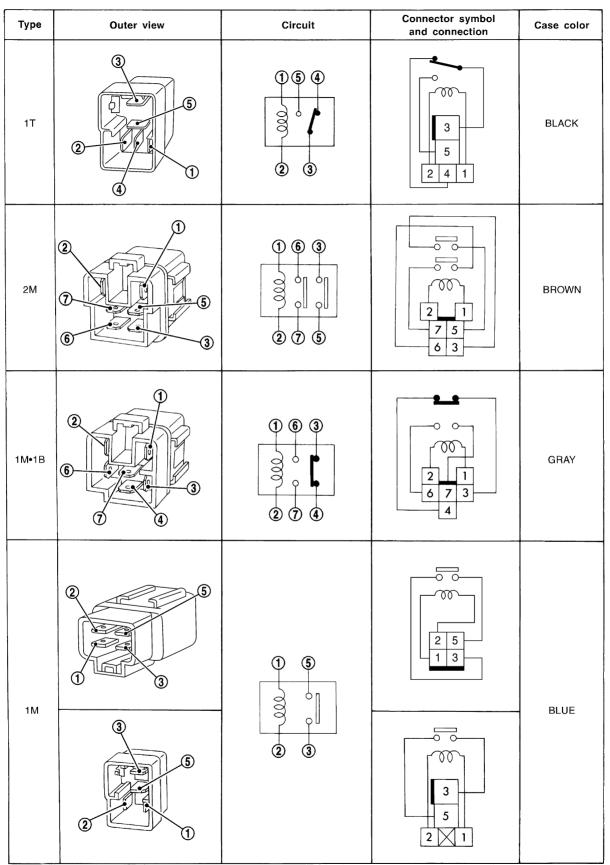
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STANDARDIZED RELAY



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

CKIM0221E

FUSE BLOCK - JUNCTION BOX (J/B) PFP:24350 Α **Terminal Arrangement** NKS003GU To main harness В 7A 6A 5A 4A **- 3**A 2A 1A 2B 1B M2 16A 15A 14A 13A 12A 11A 10A 9A 8A 8B 7B 6B 5B 4B С D Е F G 9 10 A 15 A 15 A 15 A Н Spare fuse To engine room harness J 6D 2D 3C 2C 1C 8C 7C 6C 5C 4C (E201) (E202) PG 4D 3D 1D '--____ M Accessory Blower relay relay (E203) (E204) To engine room harness

CKIM0652E

FUSE, FUSIBLE LINK AND RELAY BOX

FUSE, FUSIBLE LINK AND RELAY BOX

PFP:24382

Terminal Arrangement

NKS003GV

