POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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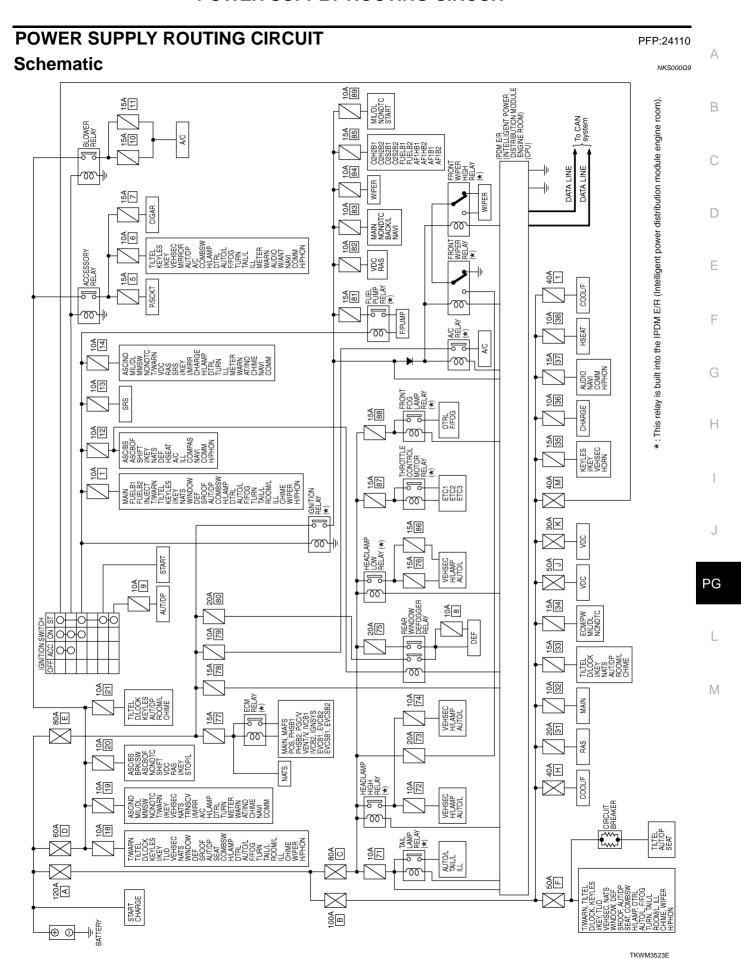
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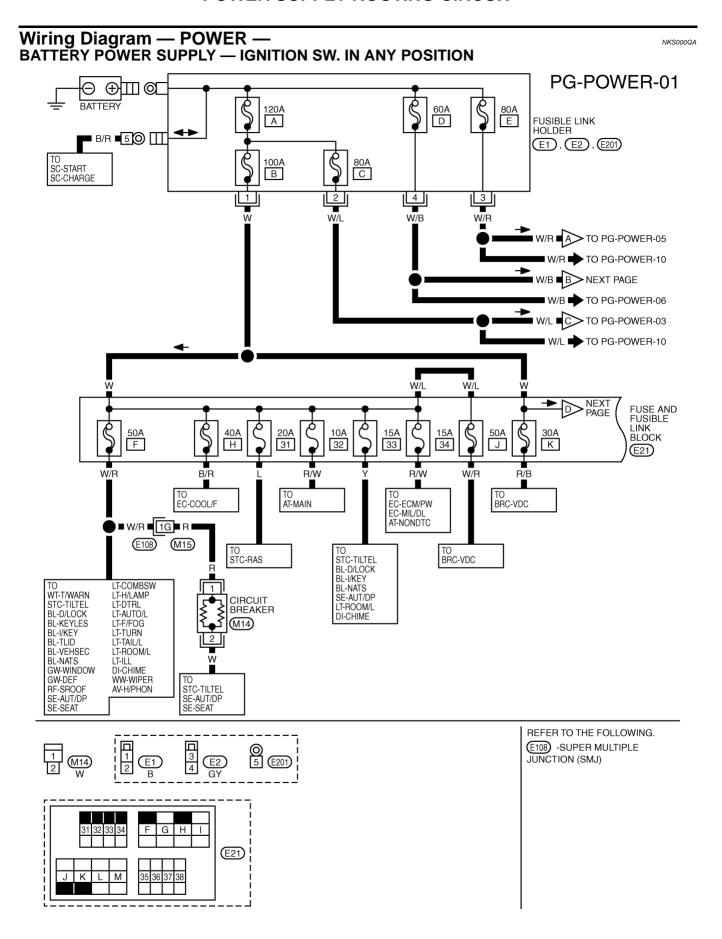
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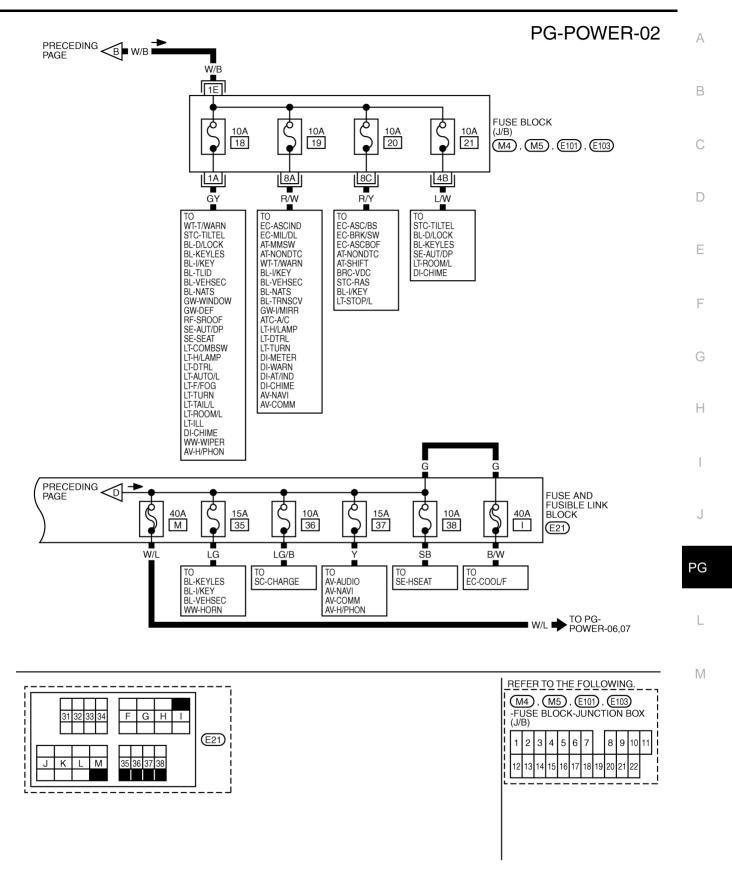
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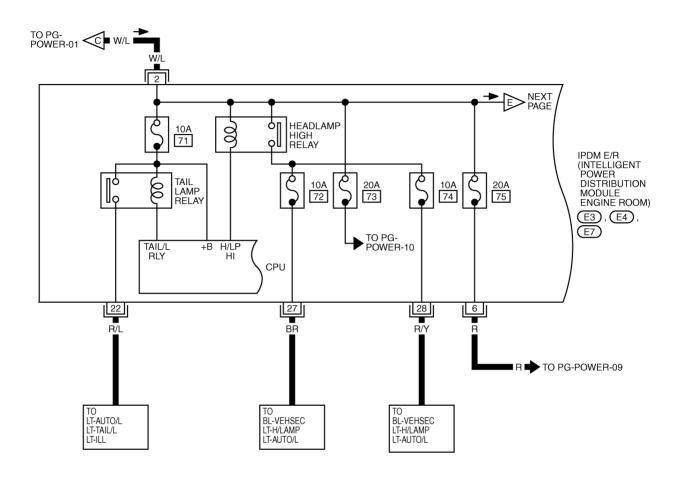


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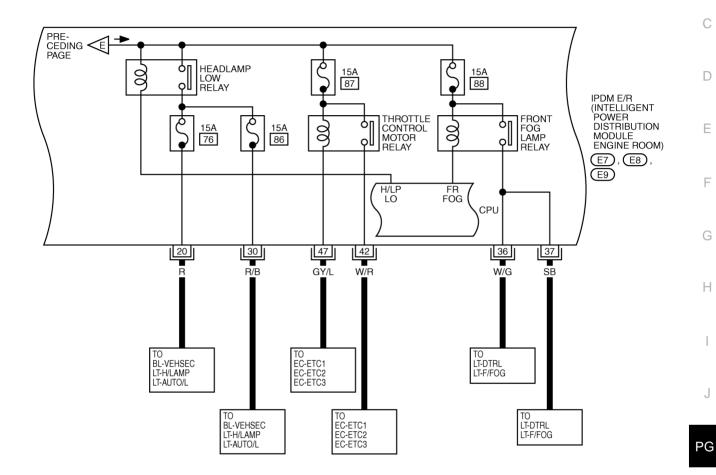
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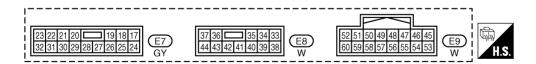




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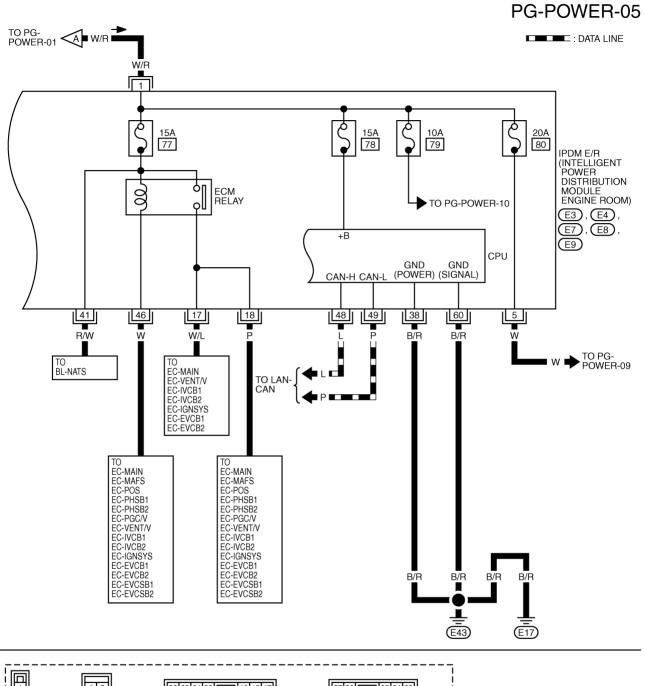
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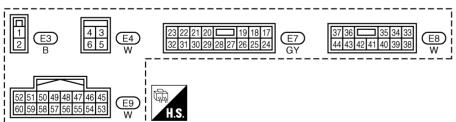
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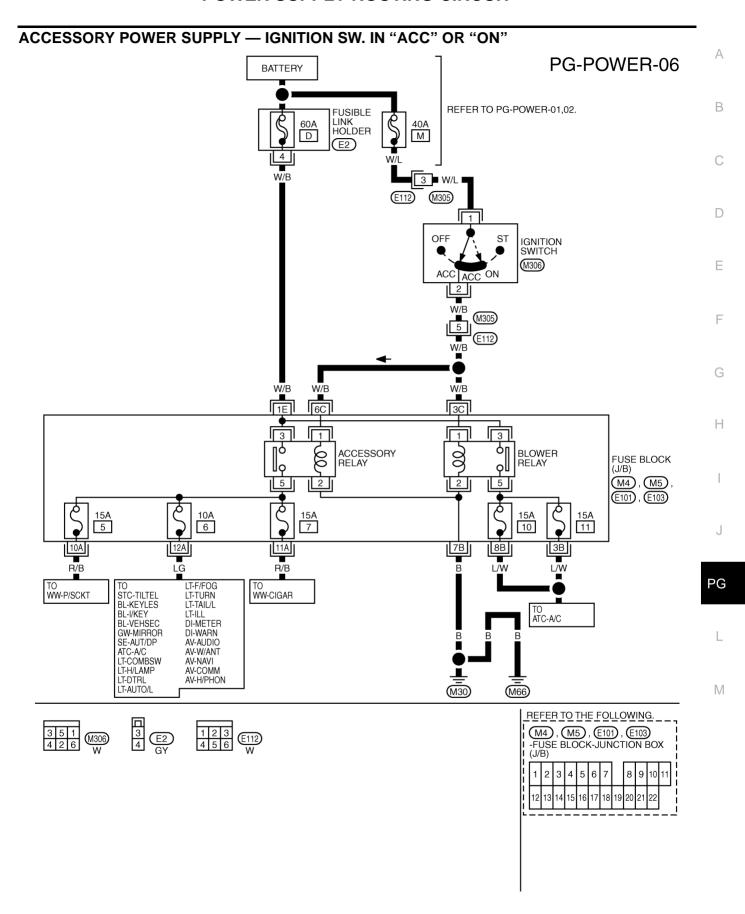
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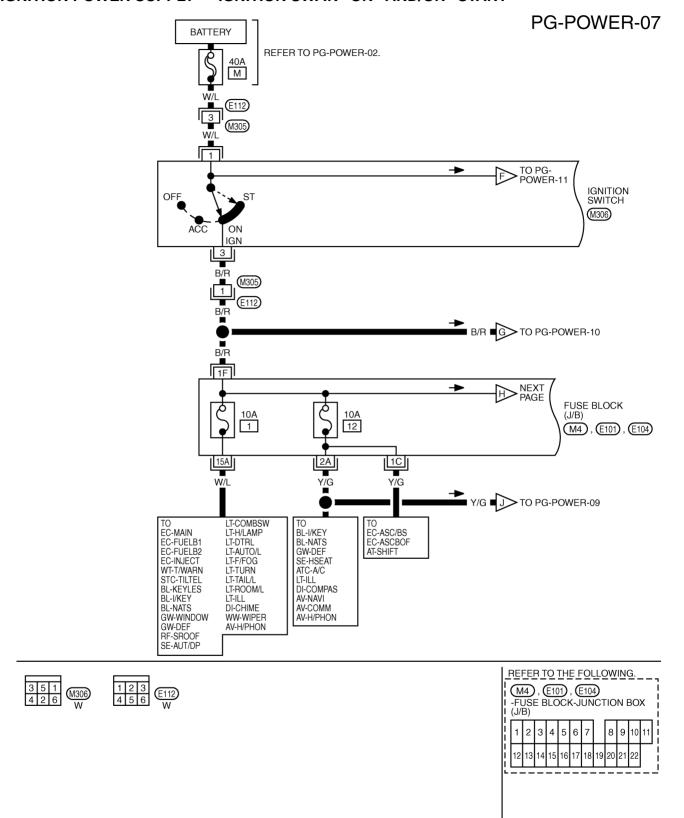


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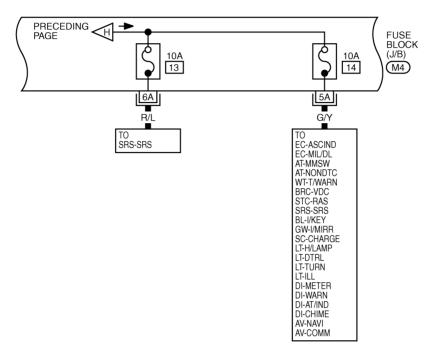
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IGNITION POWER SUPPLY — IGNITION SW. IN "ON" AND/OR "START"



TKWM3528E

PG-POWER-08



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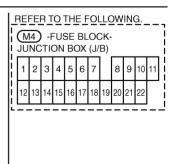
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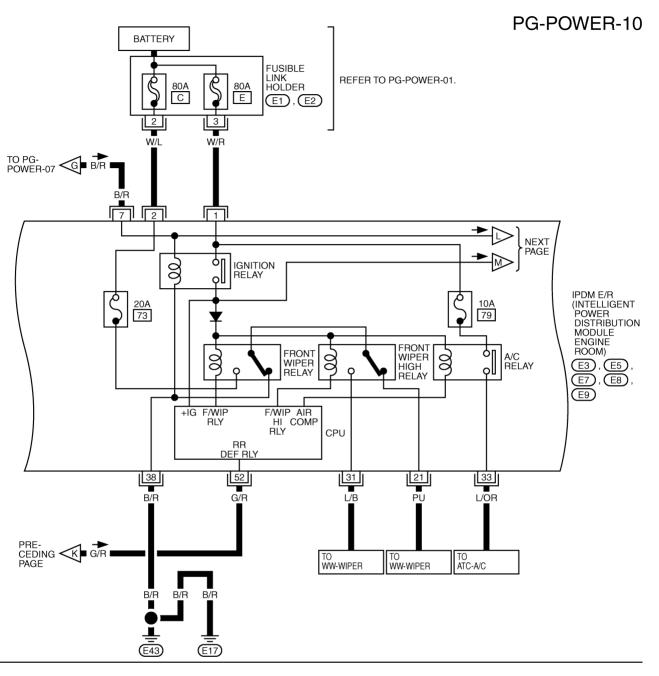
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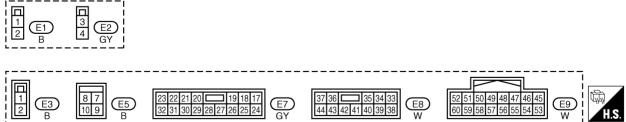


TKWM3529E

PG-POWER-09 BATTERY IPDM E/R (INTELLIGENT REFER TO PG-POWER-03,05. POWER DISTRIBUTION MODULE ENGINE ROOM) FUSE BLOCK 10A 8 20A 75 20A (J/B) 80 M5), (E101) (E4) 6 5 5B w Ē 9G B/W 71G 6G TO GW-DEF w TO PG-POWER-07 ✓J ■ Y/G B/W 6M M87 71M OR (B401) 6 3 REAR WINDOW DEFOGGER RELAY ठा ÓΠ ρl (B417) 7 5 BR 2M G/R (B401) TO GW-DEF (M87) M15 G/R E108 G/R KNEXT PAGE REFER TO THE FOLLOWING. (E108), (B401) -SUPER MULTIPLE JUNCTION (SMJ) M5, E101) -FUSE BLOCK-JUNCTION BOX (J/B) 3 6 8 9 10 11 12 13 14 15 16 17 18 19 20 21

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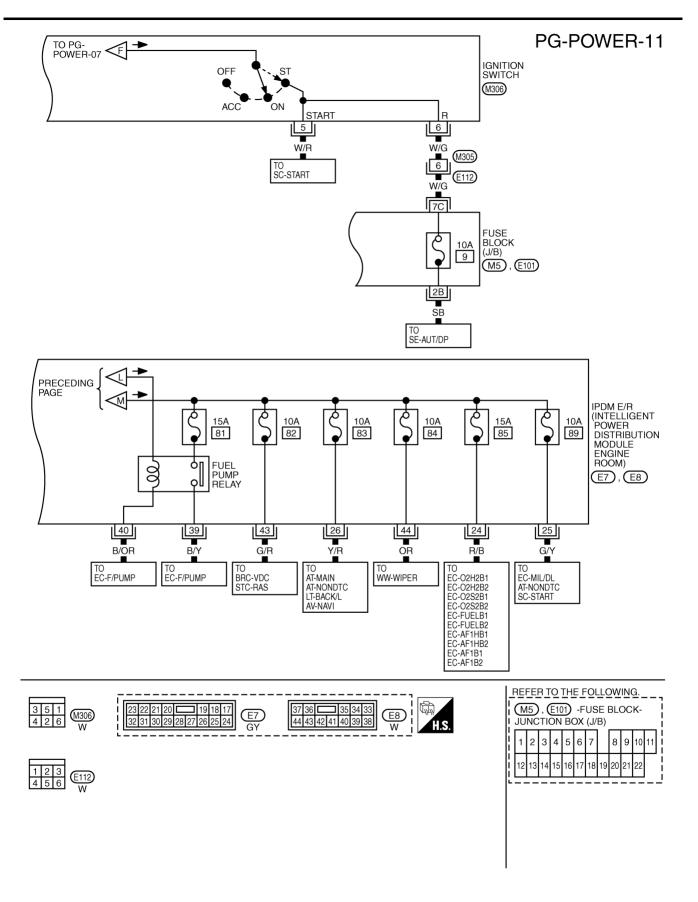
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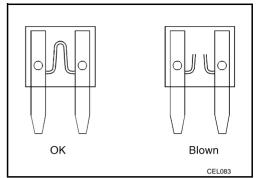


TKWM3530E

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.

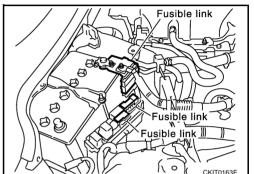


Fusible Link

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.

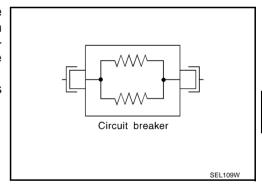
CAUTION:

- 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.



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.



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

PFP:284B7

System Description

NKS000QE

- 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 wiper.
- Rear window defogger relay control
 Using CAN communication line, it receives signals from BCM and controls the rear window defogger
 relay.
- 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.
- 6. 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.

- 1. 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.
neadamp	With the ignition switch OFF, the headlamp (low) is OFF.
Parking, license plate, side marker	With the ignition switch ON, the parking, license plate, side marker and tail lamps is ON.
and tail lamps	• With the ignition switch OFF, the parking, license plate, side marker and tail lamps is OFF.
Cooling for	With the ignition switch ON, the cooling fan HI operates.
Cooling fan	With the ignition switch OFF, the cooling fan stops.
Front wiper	Until the ignition switch is turned off, the front wiper LO and HI remains in the same status it was in just before fail–safe control was initiated.
Rear window defogger	Rear window defogger relay OFF
A/C compressor	A/C compressor OFF
Front fog lamps	Front fog lamp relay OFF

IPDM E/R STATUS CONTROL

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

- 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

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

Refer to LAN-26, "CAN Communication Unit".

Function of Detecting Ignition Relay Malfunction

When contact point of integrated ignition relay is stuck and cannot be turned OFF, IPDM E/R turns ON tail
and parking 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.

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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 mode shown following.

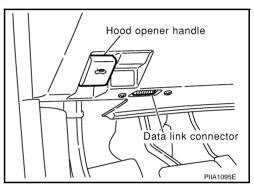
Inspection Item, Diagnosis Mode	Description
SELF-DIAG RESULTS	The IPDM E/R performs diagnosis of the CAN communication and self-diagnosis.
DATA MONITOR	The input/output data of the IPDM E/R is displayed in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive diagnosis of CAN communication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

CONSULT-II BASIC OPERATION

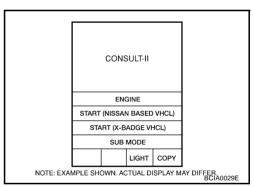
CAUTION:

If CONSULT-II is used with no connection of CONSULT-II CONVERTER, malfunctions might be detected in self-diagnosis depending on control unit which carry out CAN communication.

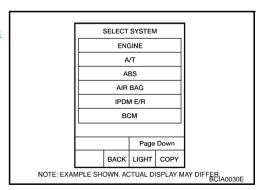
1. With the ignition switch OFF, connect CONSULT-II and CON-SULT-II CONVERTER to the data link connector, and then turn the ignition switch ON.



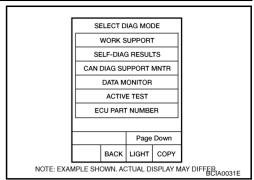
2. Touch "START (NISSAN BASED VHCL)".



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



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



SELF-DIAG RESULTS

Operation Procedure

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

Display Item List

Display Items	CONSULT-II	Malfunction detecting condition —		ИΕ	Possible causes
Display items	display code			PAST	1 ossibic 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

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DATA MONITOR

Operation Procedure

- 1. Touch "DATA MONITOR" on "SELECT MONITOR ITEM" screen.
- 2. 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.

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

All Signals, Main Signals, Selection From Menu

	CONSULT-II screen		Monitor item selection		election	
Item name	display	Display or unit	ALL SIGNALS	MAIN SIGNALS	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
Position lights 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
H/L washer request	HL WASHER REQ*1	OFF	×		×	_
FR wiper request	FR WIP REQ	STOP/1LOW/ LOW/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	×		×	_
Ignition relay sta- tus	IGN RLY	ON/OFF	×	×	×	Ignition relay status monitored with IPDM E/R
Rear window defogger 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
DTRL request	DTRL REQ*1	ON/OFF	×		×	_
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

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: This item is displayed, but does not function.

ACTIVE TEST

Operation Procedure

- 1. Touch "ACTIVE TEST" on "SELECT DIAG MODE" screen.
- 2. Touch item to be tested.
- 3. Touch "START", and confirm its operation.
- 4. Touch "STOP" 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.
Headlamp washer operation	HEAD LAMP WASHERNOTE	_
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.
Horn operation	HORN	Push "ON" button, horn relay operates 20ms.

NOTE

This item is displayed, but cannot be tested.

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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 wiper
- Parking, license plate, side marker and tail lamps
- Front fog lamps
- Headlamps (HI, LO)
- A/C compressor (magnetic clutch)
- Cooling fan

OPERATION PROCEDURE

1. Close hood and front door (passenger side) and then 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 drivers door switch 10 times (close other door). 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. Oil pressure warning lamp starts blinking.
- 6. After a series of operations is repeated three times, auto active test is completed.

NOTE:

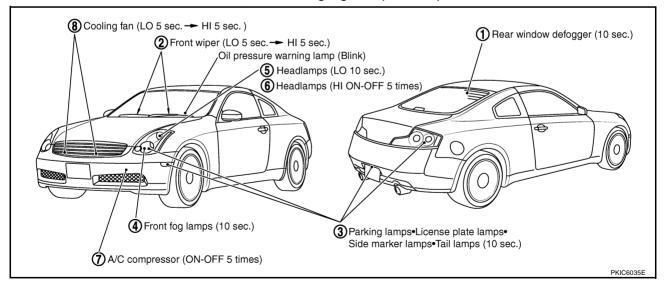
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

CAUTION:

Be sure to inspect BL-40, "Check Door Switch" when the auto active test cannot be performed.

INSPECTION IN AUTO ACTIVE TEST MODE

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



Concept of Auto Active Test

• IPDM E/R actuates auto active test mode when it receives door switch signal from BCM via CAN communication line. Therefore, when auto active test mode is activated successfully, CAN communication between IPDM E/R and BCM is normal.

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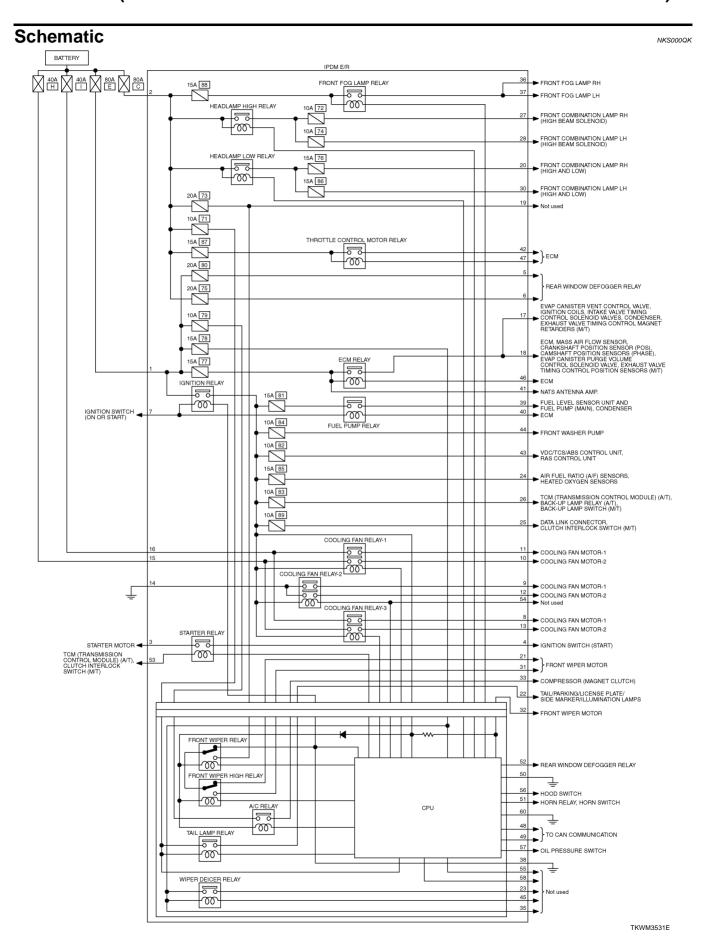
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• If any of systems controlled by IPDM E/R cannot be operated, possible cause can be easily diagnosed using auto active test.

Diagnosis chart in auto active test mode

Symptom	Inspection conte	nts	Possible cause	
		YES	BCM signal input circuit malfunction	
Rear window defogger does not operate.	Perform auto active test. Does rear window defogger operate?	NO	 Rear window defogger relay malfunction Harness/connector malfunction between IPDM E/R and rear window defogger relay Open circuit of rear window defogger 	
			IPDM E/R malfunction	
Ann of forms win one soil		YES	BCM signal input system malfunction	
Any of front wipers, tail and parking lamps, front fog 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 	
A/C compressor does Perform auto active		YES	 BCM signal input circuit malfunction CAN communication signal between BCM and ECM. CAN communication signal between ECM and IPDM E/R 	
not operate.	· Test Tipes mannetic		 Magnetic clutch malfunction Harness/connector malfunction between IPDM E/R and magnetic clutch IPDM E/R (integrated relay) malfunction 	
One line of the state of the	Perform auto active	YES	ECM signal input circuitCAN communication signal between ECM and IPDM E/R	
Cooling fan does not operate.	test. Does cooling fan 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 lamp does not operate.	Perform auto active test. Does oil pres- sure warning lamp	YES	 Harness/connector malfunction between IPDM E/R and oil pressure switch Oil pressure switch malfunction IPDM E/R malfunction 	
	blink?	NO	 CAN communication signal between IPDM E/R and combination meter Combination meter 	



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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, fusible link No.
1	Battery	E
2		С
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		78

OK or NG

OK >> GO TO 2.

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

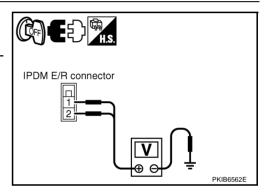
2. CHECK POWER SUPPLY CIRCUIT

- 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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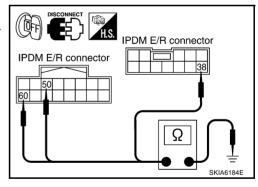
3. CHECK GROUND CIRCUIT

- 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 display code	TIME		Details of diagnosis result
		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>>After print-out of the monitor items, refer to LAN-3, "Precautions When Using CONSULT-II".

PG

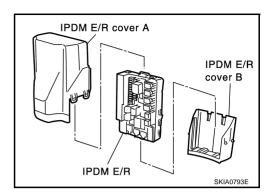
J

L

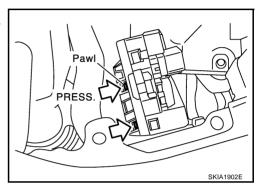
Removal and Installation of IPDM E/R REMOVAL

NKS000QO

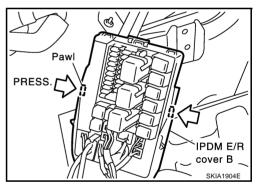
1. Remove battery. Refer to SC-9, "Removal and Installation".



Remove IPDM E/R cover A. While pushing pawl on backside of IPDM E/R cover B toward vehicle front to unlock, lift up IPDM E/R.



- 3. While pushing tabs 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

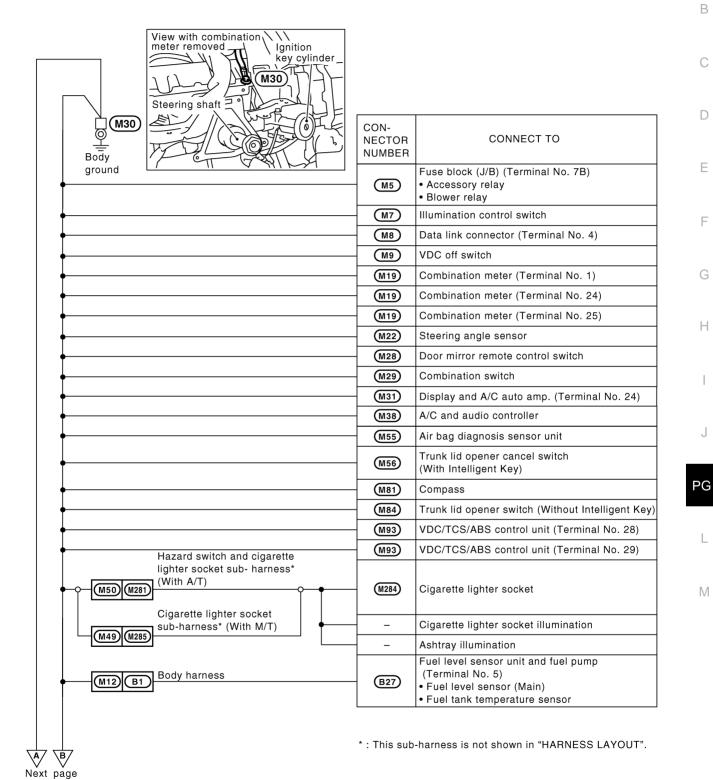
Installation is the reverse order of removal.

GROUND PFP:00011

Ground Distribution MAIN HARNESS

NKS000QP

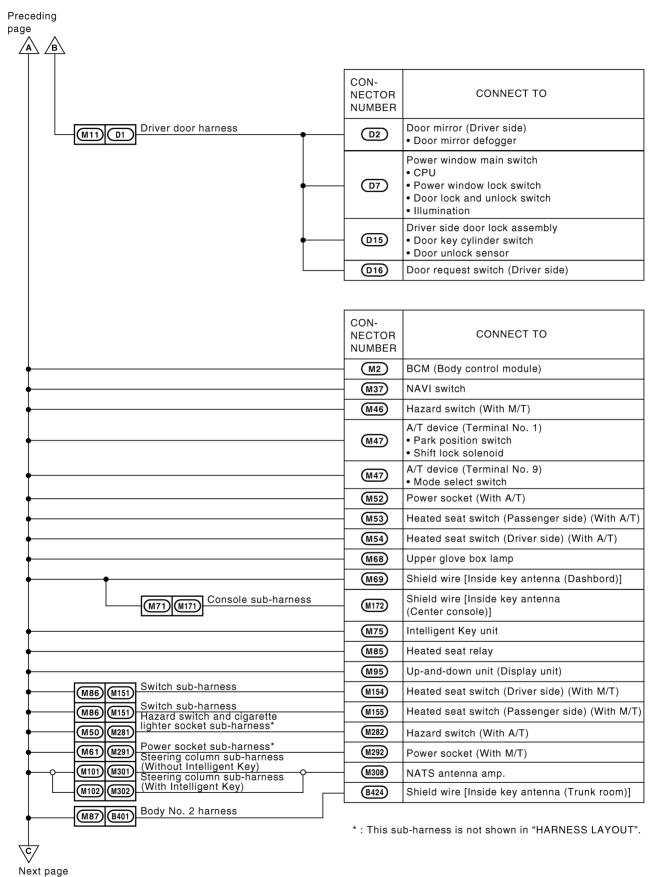
В



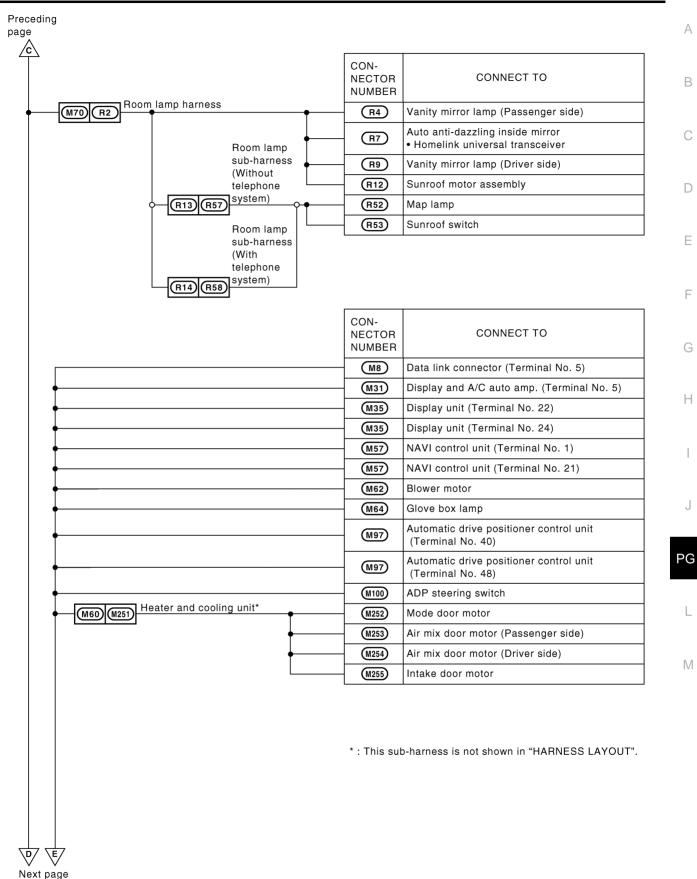
CKIM0571E

PG-29 Revision: 2006 August 2006 G35 Coupe

Н



CKIM0572E



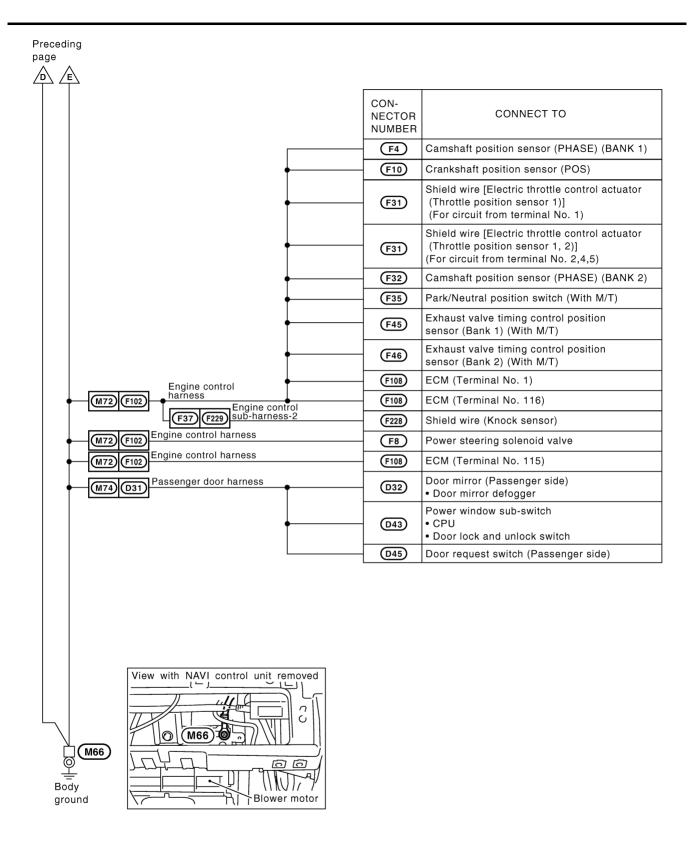
PG-31 Revision: 2006 August 2006 G35 Coupe

F

M

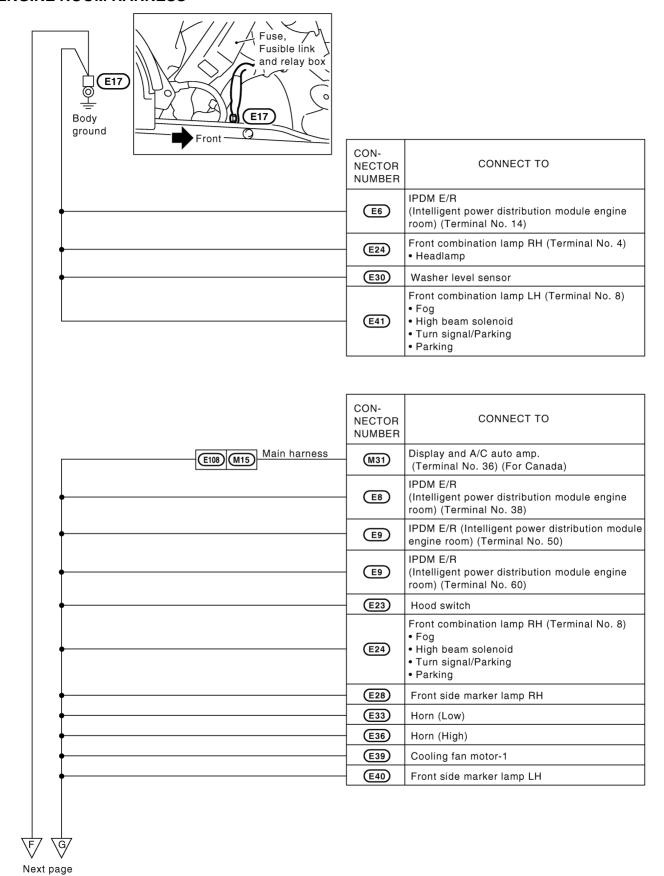
CKIM0573E

GROUND



CKIM0574E

ENGINE ROOM HARNESS



CKIM0575E

Revision: 2006 August PG-33 2006 G35 Coupe

Α

В

C

D

F

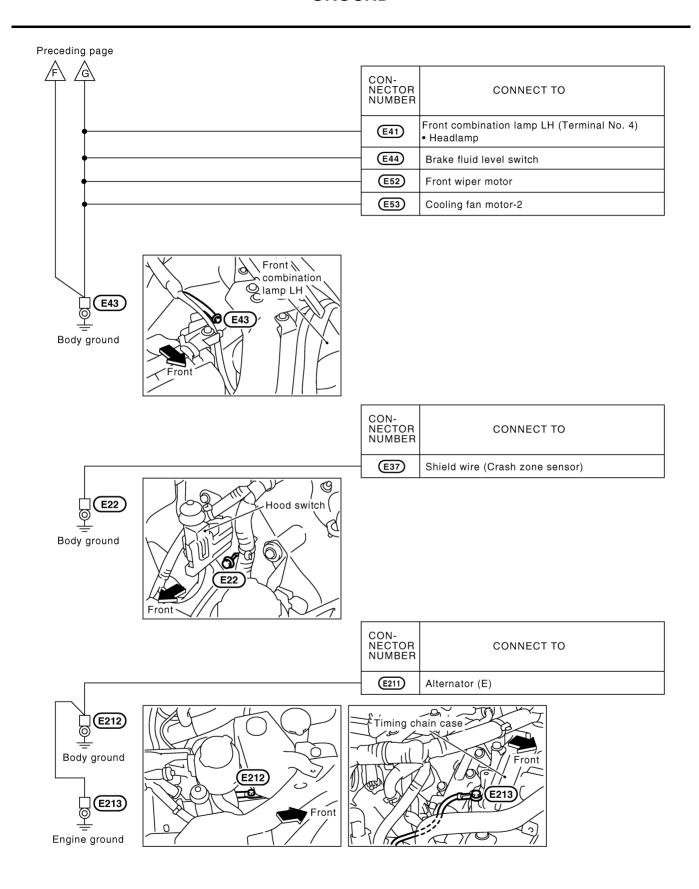
F

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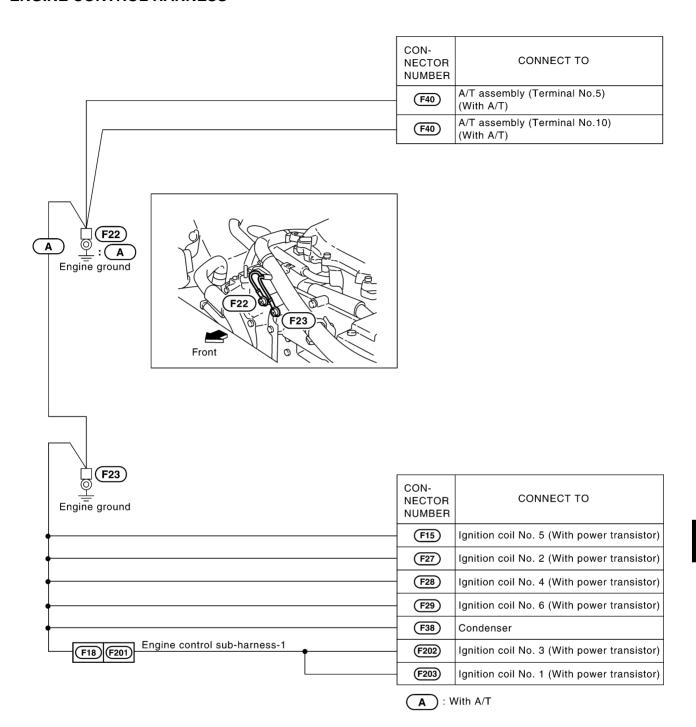
ΡG



CKIM0576E

GROUND

ENGINE CONTROL HARNESS



CKIM0283E

Revision: 2006 August PG-35 2006 G35 Coupe

В

Α

C

D

F

F

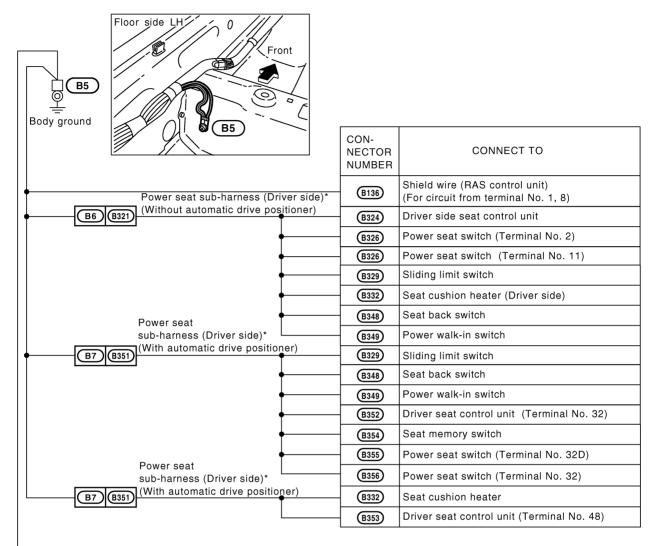
G

Н

PG

BODY HARNESS

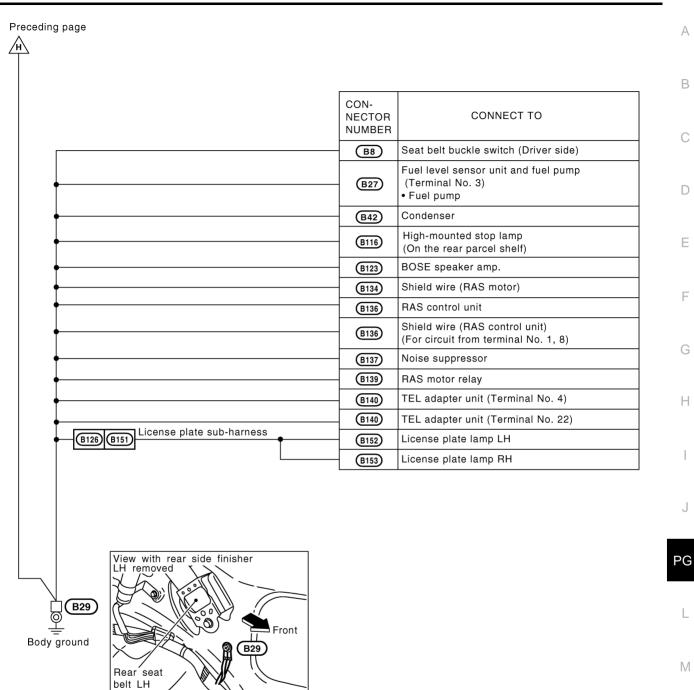
Next page



 $^{^{\}star}$: This sub-harness is not shown in "HARNESS LAYOUT".

CKIM0577E

GROUND



CKIM0578E

PG-37 Revision: 2006 August 2006 G35 Coupe В

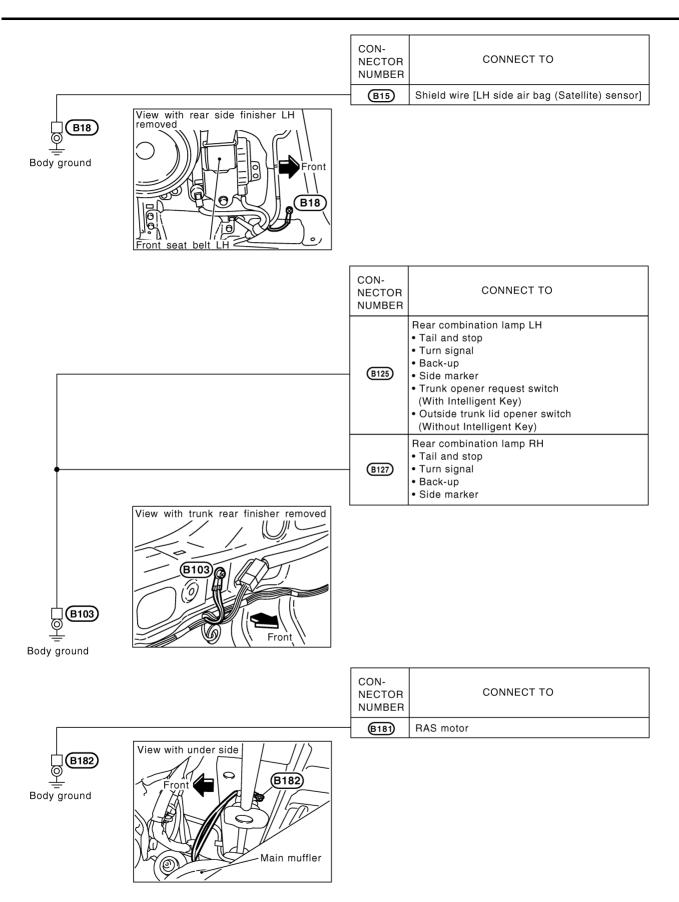
Α

D

F

Н

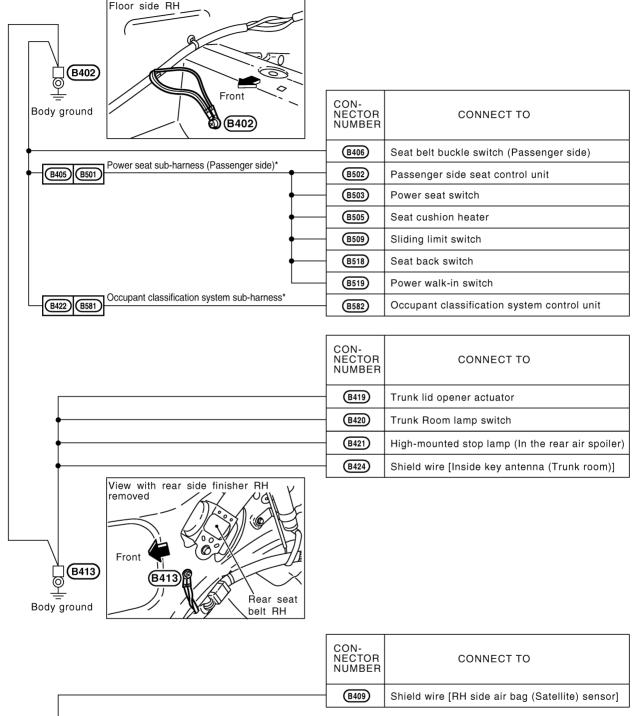
GROUND



CKIM0579E

BODY NO. 2 HARNESS

Up to Vehicle Identification Number JNKCV54E26M 712739



Body ground

View with rear side finisher RH

Front

B407

CKIM0580E

Revision: 2006 August PG-39 2006 G35 Coupe

В

Α

С

D

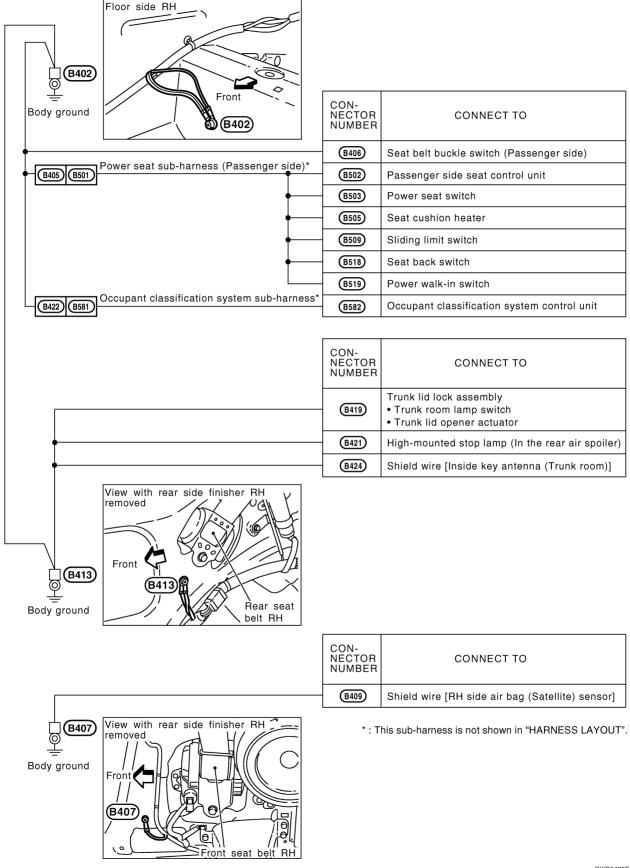
F

Н

PG

^{*:} This sub-harness is not shown in "HARNESS LAYOUT".

From Vehicle Identification Number JNKCV54E26M 712740



GROUND

CONNECTOR
NUMBER

CONNECT TO

(8451)

Rear window defogger (-)

Wiew with rear pillar finisher LH removed

Bads2

Antenna amp.

PG

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Α

В

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CKIT0254E

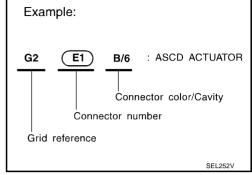
HARNESS PFP:00011

Harness Layout HOW TO READ HARNESS LAYOUT

NKS000QQ

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 (Passenger Compartment)
- Body No. 2 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.
- 5. Follow the line (if used) to the connector.

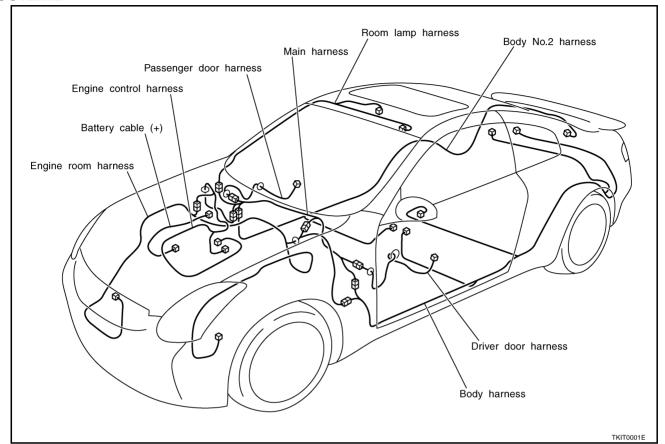
CONNECTOR SYMBOL

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

O a management and a	Water p	proof type	Standard type						
Connector type	Male	Female	Male	Female					
Cavity: Less than 4 Relay connector	Ø	Ø	Ø	Ø					
Cavity: From 5 to 8			**						
Cavity: More than 9				\Diamond					
Ground terminal etc.		_	(5P					

CKIT0108E

OUTLINE



PG

J

Α

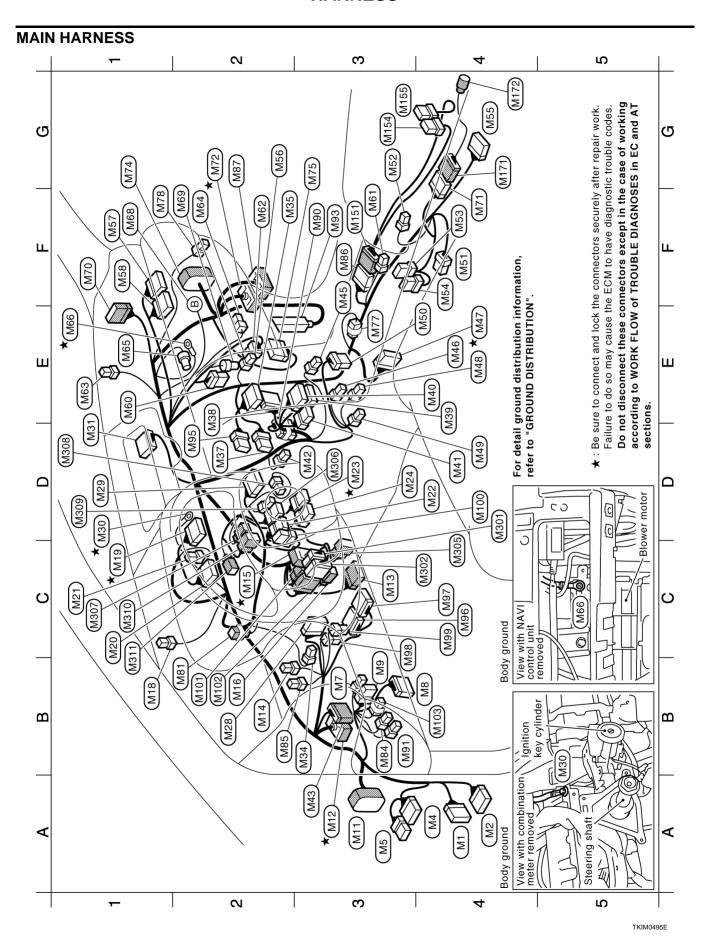
В

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L



A4 (M2) B/15 : BCM (Body control module) A4 (M2) B/15 : BCM (Body control module) A4 (M4) W/16 : Flise block (J/R)	E4 *(M47 W/10 M48 BR/2 M49 W/3	: A/T device (With A/T) : A/T illumination (With A/T) : Cinarette lighter socket	G3 (M75) W/40 : Intelligent Key unit (With Intelligent Key) E3 (M77) W/2 : Diode (With A/T)
8/M (ME)	<u>,</u>		(Via sub-harness) (With M/T)	
B3 (M7) W/3 : Illumination control switch B4 (M8) W/16 : Data link connector	E4 (M50 W/8	: Hazard switch and Cigarette lighter socket (Via sub-harness)	B2 (M81) W/4 : Compass B3 (M84) W/4 : Trunk lid opener switch
9/A5 (M)			(With A/T)	(M85) L/4 : Heated seat relay
(M11) SMJ : To (F4	\sim	: Yaw rate/side G sensor	F3 (M86) W/12 : To (M151) (With M/T)
* M12 SMJ :	g3 (\sim	: Power socket (With A/T)	G2 (M87) SMJ : To (B401)
M13 BR/16:	F4 (M53) BR/6		06W
. W/2 :			(Passenger side)	. W/2
(M15) SMJ :				(M93) SMJ : VDC/TCS/ABS control unit
M16	F4 ((M54) W/6	: Heated seat switch	D2 (M95) GY/6: Up-and-down unit (Display unit)
M18 B/2 :			(Driver side)	(
_			(With A/T)	C4 (M96) W/32 : Automatic drive positioner control unit
(M20) W/12 :	G4 (·	: Air bag diagnosis sensor unit	(With automatic drive positioner or
C1 (M21) W/3 : Intelligent Key warning buzzer	G2	M56) W/2	: Trunk lid opener cancel switch	electric tilt and telescopic steering)
(Instrument panel)	E	M57) W/40		C4 (M97) W/16 : Automatic drive positioner control unit
(With Intelligent Key)			(With navigation system)	(With automatic drive positioner or
D4 (M22) W/8 : Steering angle sensor	E	M58 W/32	: NAVI control unit	electric tilt and telescopic steering)
D3 ★ M23 GY/8 : Combination switch (Spiral cable)	_		(With navigation system)	C3 (M98) W/4 : Tilt motor and telescopic motor
$\overline{}$	Ш	9/M (09W)	: Heater and cooling unit	(With automatic drive positioner or
B2 (M28) W/10 : Door mirror remote control switch			(Via sub-harness)	electric tilt and telescopic steering)
٠.	F3 ((M61) W/2	: Power socket (Via sub-harness)	C4 (M99) W/4 : Tilt sensor and telescopic sensor
D1 ★(M30) — : Body ground			(With M/T)	(With automatic drive positioner or
D1 (M31) W/40 : Display and A/C auto amp.	F2 (M62 W/6	: Blower motor	electric tilt and telescopic steering)
$\overline{}$	E1	_	: Optical sensor	D4 (M100) GY/6 : ADP steering switch
F2 (M35) W/24 : Display unit	F2 (_	: Glove box lamp	(With automatic drive positioner or
(With navigation system)		M65 Y/4	: Front passenger air bag module	electric tilt and telescopic steering)
D2 (M37) W/8 : NAVI switch	×	- (Me6	: Body ground	(M101) W/8
(With navigation system)	E (M68 Bulb	: Upper glove box lamp	_
E2 (M38) W/12 : A/C and audio controller			(Without navigation system)	B4 (M103) -/2 : Resistor
E4 (M39) W/16 : Audio unit	F2 ((M69) GY/2	: Inside key antenna	
E4 (M40) W/10 : Audio unit			(Dashboard) (With Intelligent Key)	
D4 (M41) W/6 : Audio unit	_	M70) W/18	To	
(M42) W/2 :	$\check{}_{\star}$		\sim	
A3 (M43) W/12 : To (B43)				
(With option connector	5	M/4) SMJ	: lo (U31)	Jaon vionos softo viosancos escaposance esta Jeel bue tecnas
(X : De sure lo co	X: De sure to confinect and fock the confinectors securely after repair work. Failure to do so may cause the ECM to have diagnostic fronthle codes.
F3 (M45) BR/2 : Antenna amp. (Via sub-harness) E4 (M46) W/4 : Hazard switch (With M/T)			Do not disc	Do not disconnect these connectors except in the case of working
			sections.	

PG-45 Revision: 2006 August 2006 G35 Coupe

PG

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TKIM0496E

Switch sub-harness (With M/T)

W/12 : To (M86)

W/6 : Heated seat switch (Driver side)

F3 G3

BR/6 : Heated seat switch (Passenger side)

Console sub-harness (With Intelligent Key)

G4 G4

W/32 : To (M71) GY/2 : Inside key antenna (Center console) M172

Steering column sub-harness

(M301)

: To (M101) (Without Intelligent Key) : To (M102) (With Intelligent Key) : To (E112) W/12 W/6

: Ignition switch

9/M

: Key switch (Without Intelligent Key) : NATS antenna amp. BR/2

W/4 W/2

Key switch and ignition knob switch Ignition keyhole illumination GY/6

: Steering lock unit (With Intelligent Key) (With Intelligent Key) W/4 M311

 $\frac{1}{2}$

Diode (M77)

A/T device (Park position switch) Stop lamp switch

TKIM0497E

TKIM0498E

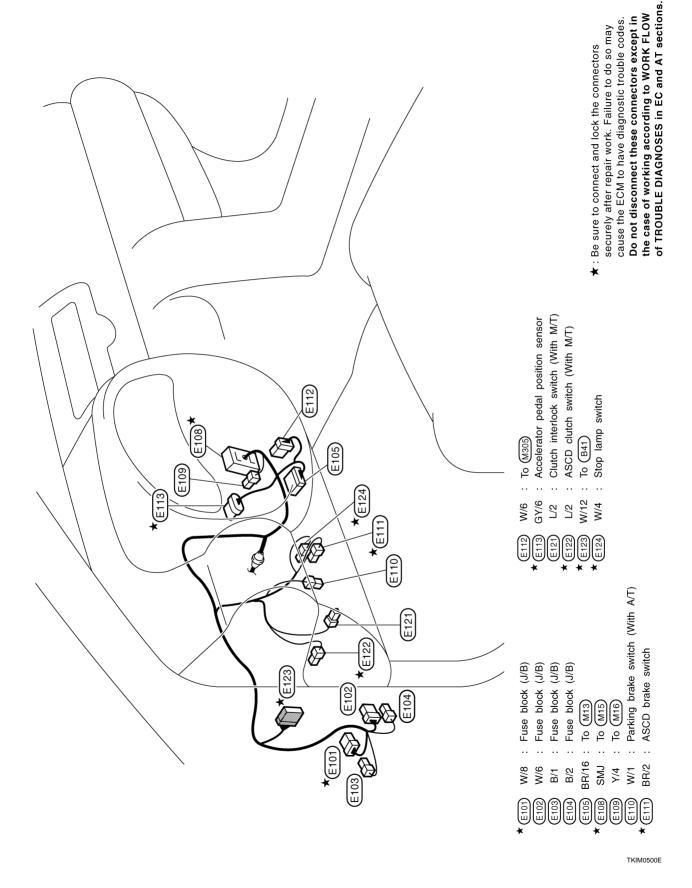
E4 (E42) B/2 : Front wheel sensor LH	E3 ★ (E43) — : Body ground	E2 (E44) GY/2 :) F3 (E47) B/8 : VDC relay box) F3 (E48) B/2 : VDC relay box) F2 (E49) GY/8 : VDC actuator) F2 (E50) B/8 : VDC actuator) F2 (E52) GY/5 : Front wiper motor) B4 ★(E53) GY/4 : Cooling fan motor-2																											★: Be sure to connect and lock the connectors secur
: Fusible link holder	: Fusible link holder	: IPDM E/R (Intelligent power distribution module engine room)	: IPDM E/R (Intelligent power distribution module engine room)	: IPDM E/R (Intelligent power distribution module engine room)	: IPDM E/R (Intelligent power distribution module engine room)	: IPDM E/R (Intelligent power distribution module engine room)	: IPDM E/R (Intelligent power distribution module engine room)	: IPDM E/R (Intelligent power distribution module engine room)	- 1	: To F2	: To F3	: Body ground	: Fuse, fusible link and relay box	: Back-up lamp relay (With A/T)	: Horn relay	: Fuse and fusible link block	: Body ground	: Hood switch	: Front combination lamp RH	: Front wheel sensor RH	: Front side marker lamp RH	: Front washer pump	: Washer level sensor	: Refrigerant pressure sensor	: Horn (Low)	: Horn (Low)	: Ambient sensor	: Horn (High)	: Horn (High)	: Crash zone sensor	: Intelligent Key warning buzzer (Engine room)	(With Intelligent Key)	: Cooling fan motor-1	: Front side marker lamp LH	: Front combination lamp LH
B/2	GY/2	B/2	W/4	B/4	9/M	GY/16	W/12	W/16	GY/9	GY/10	B/8	I	I	L/4	W/3	I	I	GY/2	B/8	GY/2	DGY/2	GY/2	BR/2	B/3	B/1	B/1	B/2	B/1	B/1	Y/2	DGY/3		GY/4	DGY/2	B/8
E	E2	E3	E4	EE	EB EB	E7	(EB)	[E	ETO ETO	(E11)	(E12)	(E17)	E18	E19	E20	E21	(E22	(E23)	E24	(E27)	E28	(E29	E30	E31	E32	E33	E34	E35	E36	E37	E38		(E39)	_	$\overline{}$
D2	10) 75	5	C2	D2 *	<u></u>	<u>-</u>	<u>,</u>	5	5	5	™	C5	Ξ	Ε	<u>n</u>	B2	A 2	A 2	A 4	A 3	Α4	A 4	A3	A 4	B 4	B3	\Im	$\ddot{\mathbb{S}}$	Ω	D4		¥	E2	E3

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.

TKIM0499E

Passenger Compartment



В

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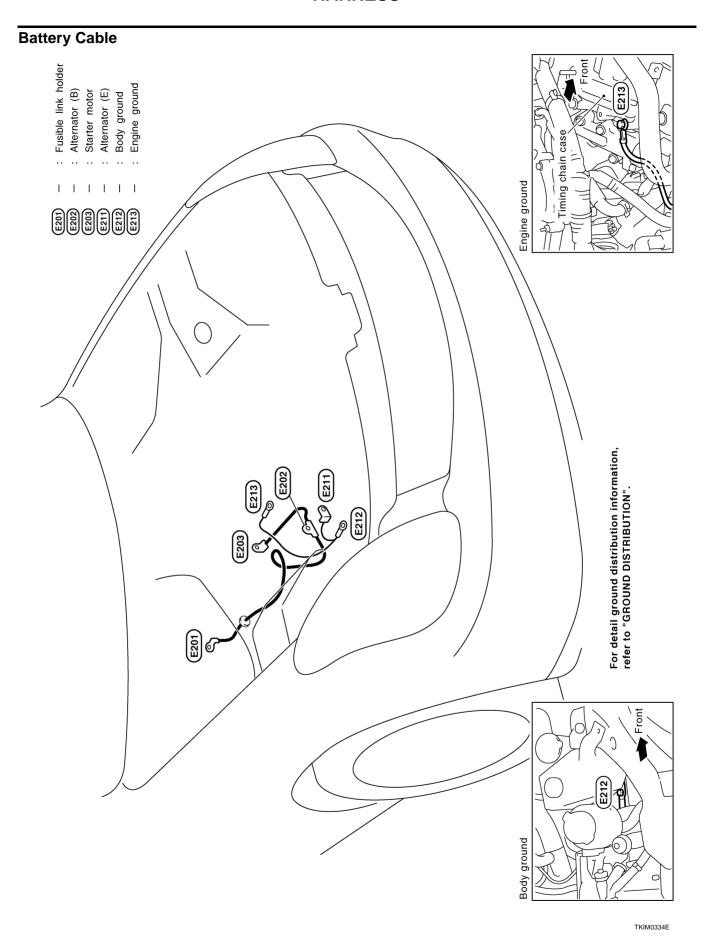
G

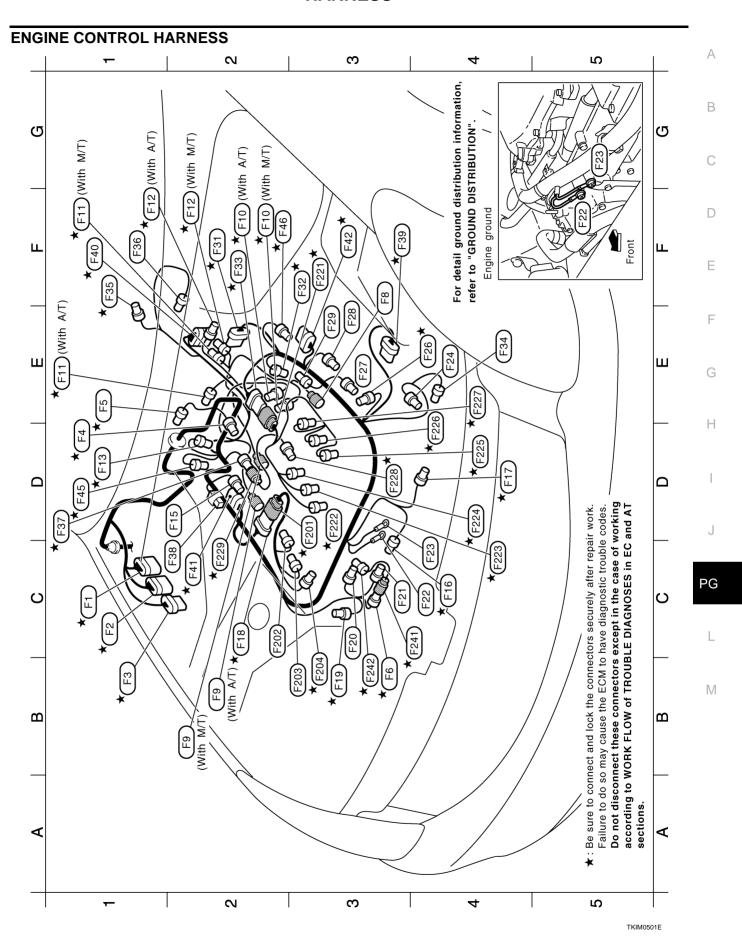
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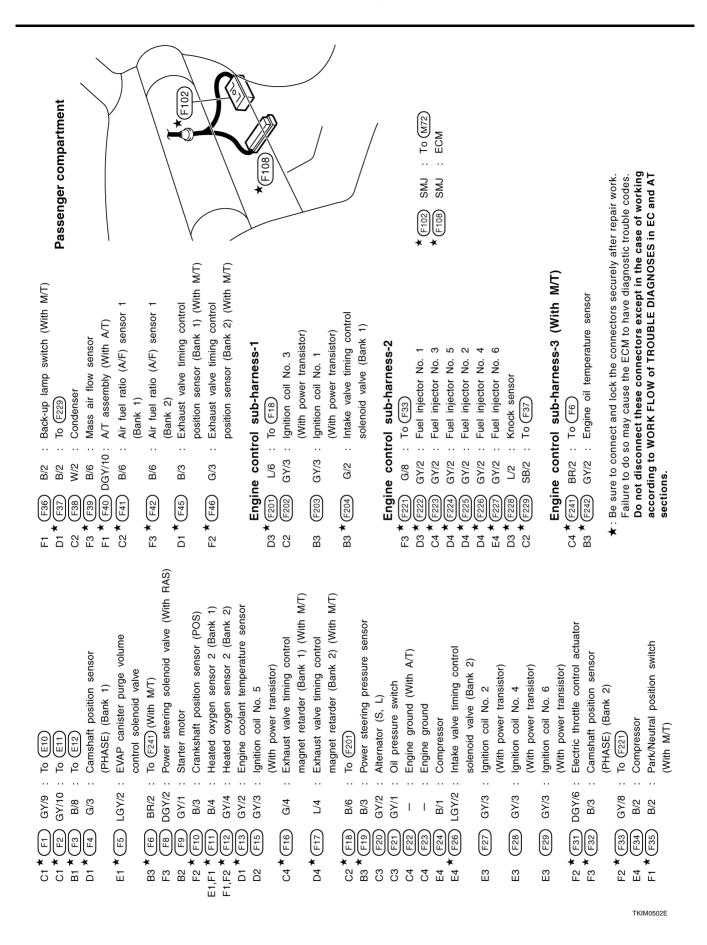
J

PG

L







TKIM0503E

sections. To (M43) (With option connector for satellite radio system) Rear speaker LH (With BOSE system) Condenser To (E123) BR/2 W/12 B43 B42

Fuel level sensor unit and fuel pump

GY/5 GY/2

B27

Fuel level sensor unit (Sub)

Body ground

B29 B30

Υ/2 B/1

B37

Parking brake switch (With M/T) LH side curtain air bag module

Front power seat (Driver side) (Without automatic drive positioner) Front power seat (Driver side) (With automatic drive positioner)

: BCM (Body control module)

To (M12)

SMJ

[2]

Body ground

W/12 W/16

Be

B5

Seat belt buckle switch (Driver side)

W/3 Y/2

88 B7

B9

Front LH side air bag module Air bag diagnosis sensor unit

Y/12

Υ/2

(B15)

LH side air bag (Satellite) sensor Front LH seat belt pre-tensioner

Driver side door switch

Y/2 W/3

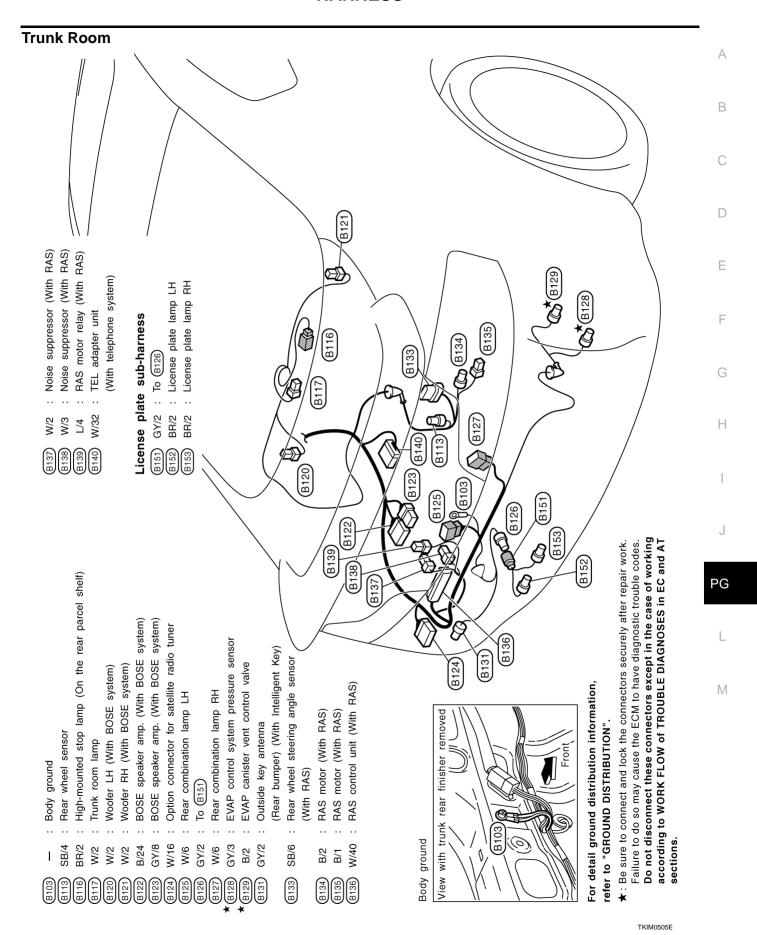
B16

Body ground

B18

Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT 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. Rear speaker LH (Without BOSE system) W/2

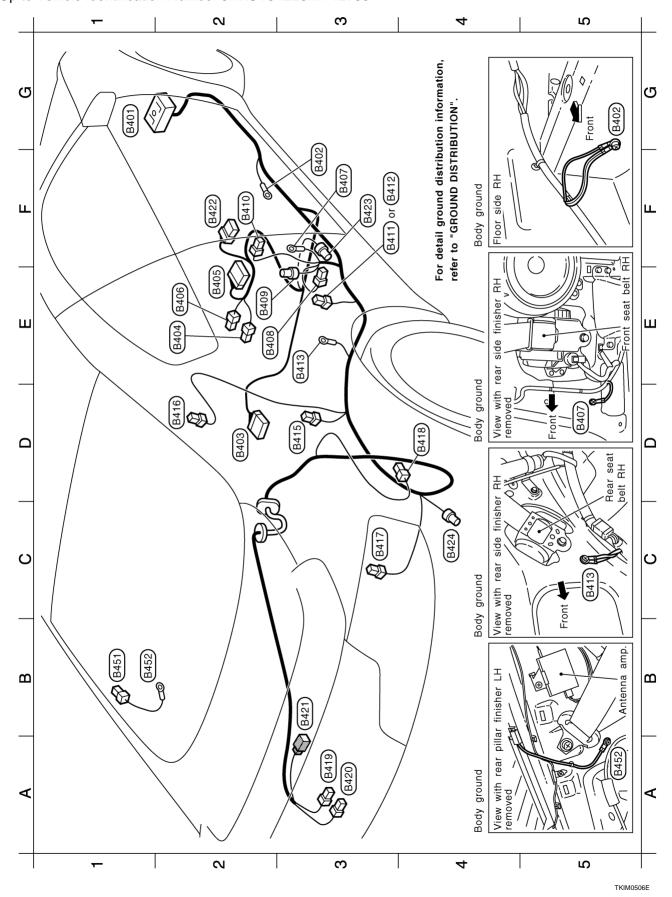
TKIM0504E



Revision: 2006 August PG-55 2006 G35 Coupe

BODY NO. 2 HARNESS

Up to Vehicle Identification Number JNKCV54E26M 712739



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С

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Е

F

G

Н

PG

M

: Rear window defogger (-) : Body ground B/1

sub-harness Body

B451 B452

H H

TKIM0507E

Occupant classification system control unit (Via sub-harness)

High-mounted stop lamp (In the rear spoiler)

BR/2

Rear speaker RH (Without BOSE system)

RH side air bag (Satellite) sensor Front RH seat belt pre-tensioner

Passenger side door switch

Rear speaker RH (With BOSE system)

W/2 BR/2

B411

B400 B410

RH side curtain air bag module

Y/2 W/1

Body ground

ı

B413

Rear window defogger relay

BR/6

W/4 B/2 W/2

Condenser

Trunk lid opener actuator Trunk room lamp switch

Fuel lid lock actuator

Seat belt buckle switch (Passenger side)

Body ground

Y/2 Y/2 W/3

Front power seat (Passenger side)

W/12

W/3

B406 B407 B408

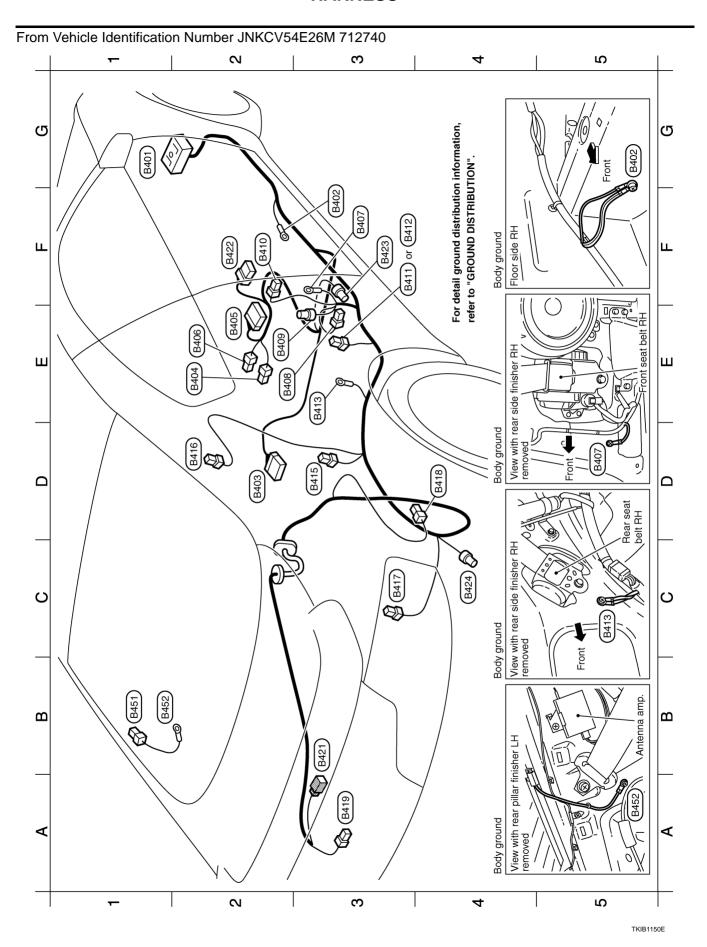
Front RH side air bag module Air bag diagnosis sensor unit

Body ground

To (M87)

Inside key antenna (Trunk room) (With Intelligent Key)

Belt tension sensor



Α

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PG

M

Body sub-harness

B/1 : Rear window defogger (-) : Body ground B451 B452

H H

TKIB1151E

Occupant classification system control unit (Via sub-harness)

High-mounted stop lamp (In the rear spoiler)

BR/2

Trunk lid lock assembly Fuel lid lock actuator

Rear speaker RH (Without BOSE system)

RH side air bag (Satellite) sensor Front RH seat belt pre-tensioner

Passenger side door switch

Rear speaker RH (With BOSE system)

W/2 BR/2

RH side curtain air bag module

Y/2 W/1

Body ground

Rear window defogger relay

BR/6

W/4 W/3

Condenser

Seat belt buckle switch (Passenger side)

Body ground

Y/2 Y/2 W/3

B409 B410

Front power seat (Passenger side)

W/12

W/3

B406 B407 B408

Front RH side air bag module Air bag diagnosis sensor unit

Body ground

To (M87)

: Inside key antenna (Trunk room) (With Intelligent Key)

Belt tension sensor

ROOM LAMP HARNESS

Room lamp sub-harness

: Map lamp

To (R13) (Without telephone system) Sunroof switch (With sunroof)

(R52) W/3 (R53) W/3 (R57) W/6 (R58) W/12 (R59) W/12

: Microphone (With telephone system) : To (R14) (With telephone system)

Vanity mirror lamp (Driver side) : Auto anti-dazzling inside mirror

: Vanity mirror lamp (Passenger side)

Sunroof motor assembly (With sunroof)

To (R57) (Without telephone system)

To (R58) (With telephone system) R2 W/18 R4 W/2 R7 B/10 R10 G//10 R13 W/6 R14 W/12

R2 (B) (F (R52) (R12) (R58) (R53) (R14 (R59 R4 (R57) (R13)

TKIM0508E

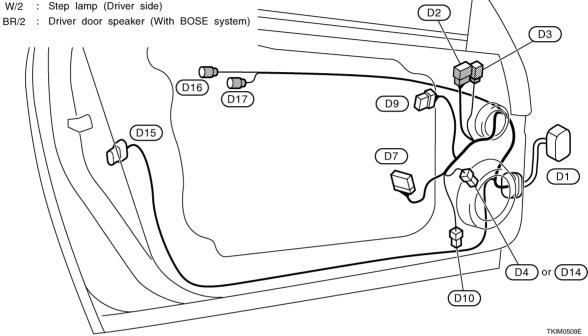
DOOR HARNESS

Driver Side Door

(D1) SMJ : To (M11) : Driver side door lock assembly (D15) (D2) W/8 : Door mirror (Driver side) (D16) : Door request switch (Driver side) (With Intelligent Key) (D3) : Tweeter (Driver side)

: Driver door speaker (Without BOSE system) (D17) GY/2 : Outside key antenna (Driver side) (With Intelligent Key)

(D7) W/16 Power window main switch (D9) W/6 Driver side power window motor (D10)



Passenger Side Door

(D31) SMJ : To (M74) W/2 Step lamp (Passenger side)

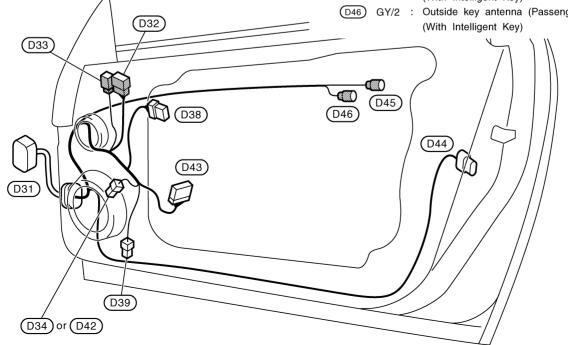
(D32) W/8 : Door mirror (Passenger side) (D42) BR/2 Passenger door speaker (With BOSE system)

(D33) BR/2 : Tweeter (Passenger side) (D43) W/16 Power window sub-switch

(D44) (D34) W/2 : Passenger door speaker (Without BOSE system) B/6 Passenger side door lock assembly (D38) W/6 : Passenger side power window motor (D45) L/2 Door request switch (Passenger side)

(With Intelligent Key)

(D46) GY/2 : Outside key antenna (Passenger side) D32 (With Intelligent Key)



TKIM0510E

PG

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Wiring Diagram Codes (Cell Codes)

NKS000QR

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	ATC	Air Conditioner
AF1B1	EC	Air Fuel Ratio Sensor 1 Bank 1
AF1B2	EC	Air Fuel Ratio Sensor 1 Bank 2
AF1HB1	EC	Air Fuel Ratio Sensor 1 Heater Bank 1
AF1HB2	EC	Air Fuel Ratio Sensor 1 Heater Bank 2
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASC/BS	EC	Automatic Speed Control Device (ASCD) Brake Switch
ASC/SW	EC	Automatic Speed Control Device (ASCD) Steering Switch
ASCBOF	EC	Automatic Speed Control Device (ASCD) Brake Switch
ASCIND	EC	Automatic Speed Control Device (ASCD) Indicator
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
AUT/DP	SE	Automatic Drive Positioner
AUTO/L	LT	Automatic Light System
BACK/L	LT	Back-Up Lamp
BRK/SW	EC	Brake Switch
CAN	AT	CAN Communication Line
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
CIGAR	WW	Cigarette Lighter
COMBSW	LT	Combination Switch
COMM	AV	Audio Visual Communication Line
COMPAS	DI	Compass and Thermometer
COOL/F	EC	Cooling Fan Control
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Daytime Light System
ECM/PW	EC	ECM Power Supply for Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
ETC1	EC	Electric Throttle Control Function
ETC2	EC	Electric Throttle Control Motor Relay
ETC3	EC	Electric Throttle Control Motor
EVCB1	EC	Exhaust Valve Timing Control Magnet Retarder (Bank 1)
EVCB2	EC	Exhaust Valve Timing Control Magnet Retarder (Bank 1)
EVCSB1	EC	Exhaust Valve Timing Control Magnet Retarder (Bank 2) Exhaust Valve Timing Control Position Sensor (Bank 1)
EVCSB2	EC	Exhaust Valve Timing Control Position Sensor (Bank 1) Exhaust Valve Timing Control Position Sensor (Bank 2)
F/FOG	LT	Front Fog Lamp

Code	Section	Wiring Diagram Name
F/PUMP	EC	Fuel Pump
FTS	AT	A/T Fluid Temperature Sensor Circuit
FTTS	EC	Fuel Tank Temperature Sensor
FUELB1	EC	Fuel Injection System Function (Bank 1)
FUELB2	EC	Fuel Injection System Function (Bank 2)
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
IGNSYS	EC	Ignition System
ILL	LT	Illumination
INJECT	EC	Injector
VCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1
VCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2
KEYLES	BL	Remote Keyless Entry System
KS	EC	Knock Sensor
MAFS	EC	Mass Air Flow Sensor
MAIN	AT	Main Power Supply and Ground Circuit
MAIN	EC	Main Power Supply and Ground Circuit
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges
MIL/DL	EC	MIL & Data Link Connector
MIRROR	GW	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
P/SCKT	WW	Power Socket
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve
PHSB1	EC	Camshaft Position Sensor (PHASE) (Bank 1)
PHSB2	EC	Camshaft Position Sensor (PHASE) (Bank 2)
PNP/SW	AT	Park/Neutral Position Switch
PNP/SW	EC	Park/Neutral Position Switch
POS	EC	Crankshaft Position Sensor (CKPS) (POS)
POWER	PG	
PRE/SE	EC	Power Supply Routing
		EVAP Control System Pressure Sensor
PS/SEN	EC	Power Steering Pressure Sensor
RAS	STC	Rear Active Steer

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Code	Section	Wiring Diagram Name
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
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
TILTEL	STC	Electric Tilt and Telescopic Steering
TLID	BL	Trunk Lid Opener
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
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)
W/ANT	AV	Audio Antenna
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer

ELECTRICAL UNITS LOCATION

PFP:25230

Electrical Units Location ENGINE COMPARTMENT

NKS000QS

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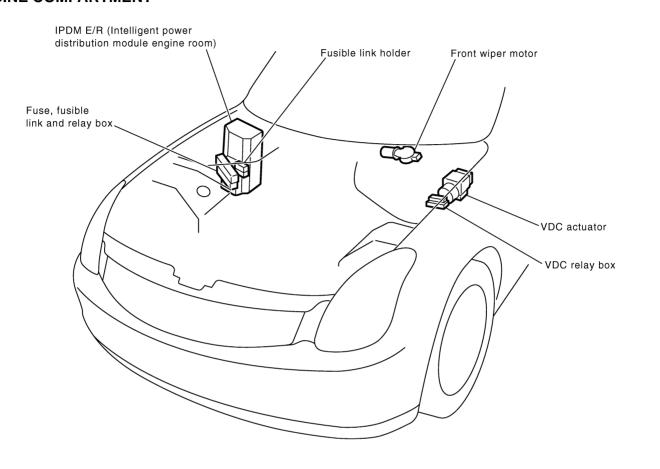
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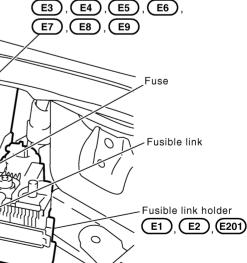
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IPDM E/R (Intelligent power

distribution module engine room)

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Fusé

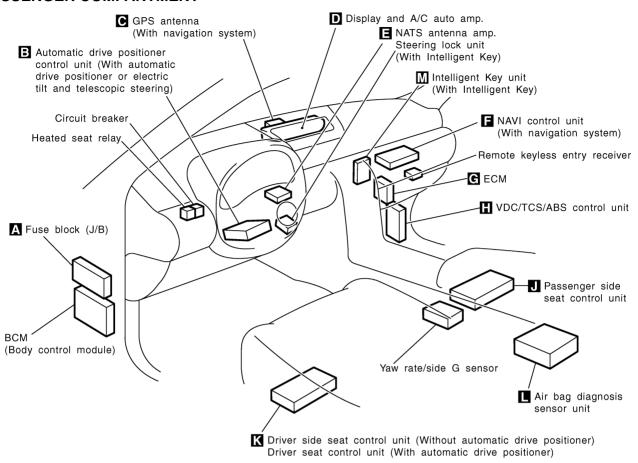
Back-up lamp relay (With A/T) (E19

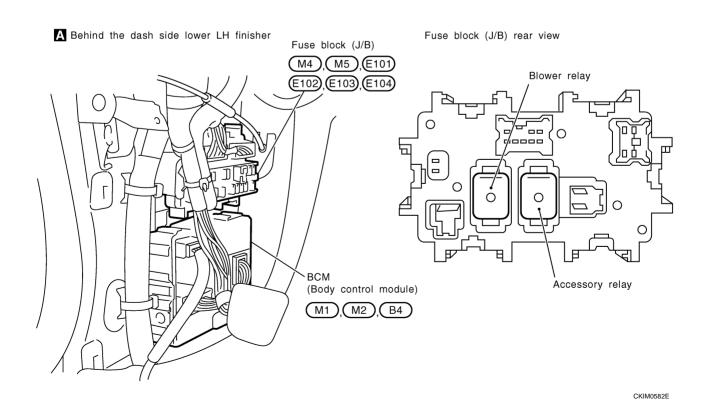
Fuse, fusible link and relay box (E18)

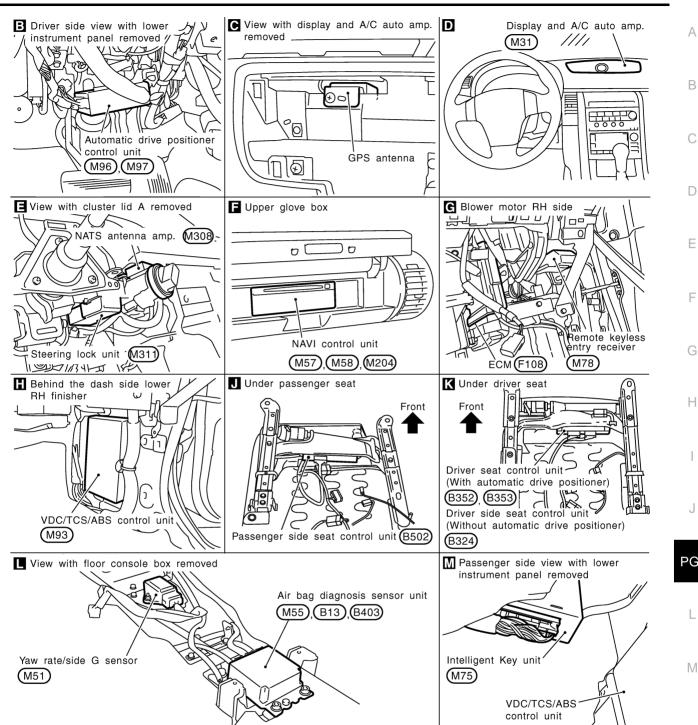
Horn relay (E20)

Fusible link

PASSENGER COMPARTMENT







CKIM0583E

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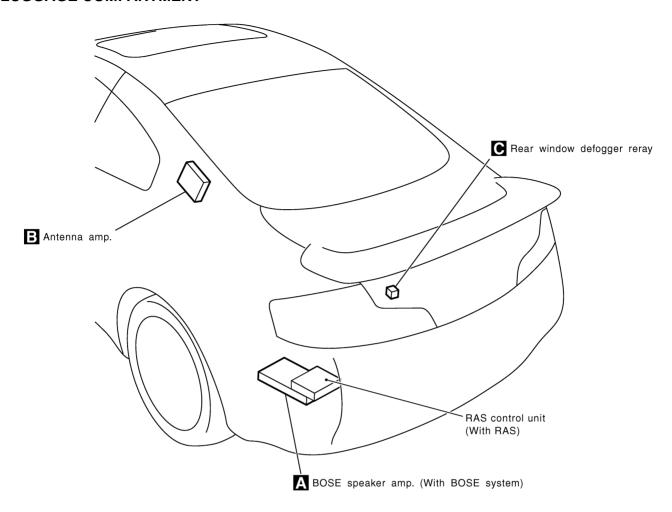
PG

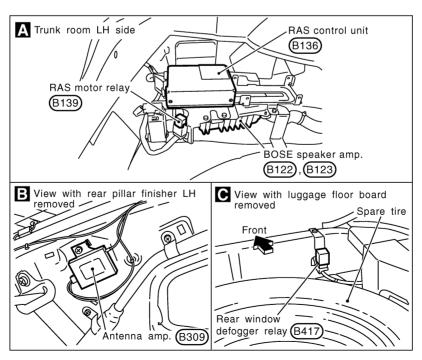
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LUGGAGE COMPARTMENT





CKIM0584E

HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:00011

Description

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HARNESS CONNECTOR (TAB-LOCKING TYPE)

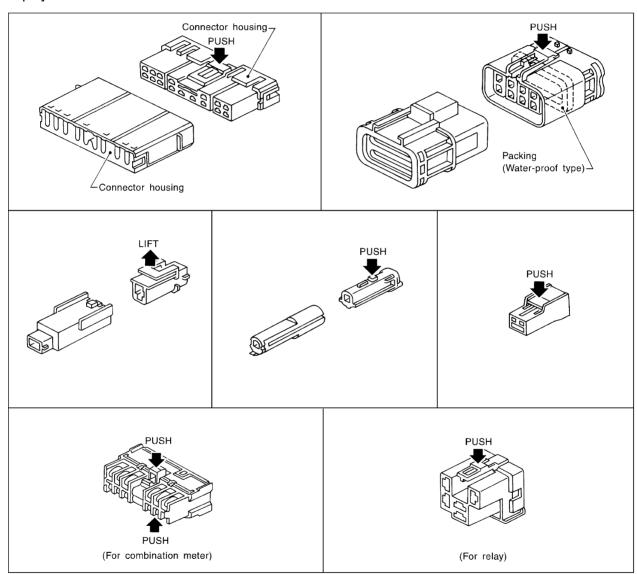
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

Refer to the next page for description of the slide-locking type connector.

CAUTION:

Never pull the harness or wires when disconnecting the connector.

[Example]



SEL769DA

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HARNESS CONNECTOR

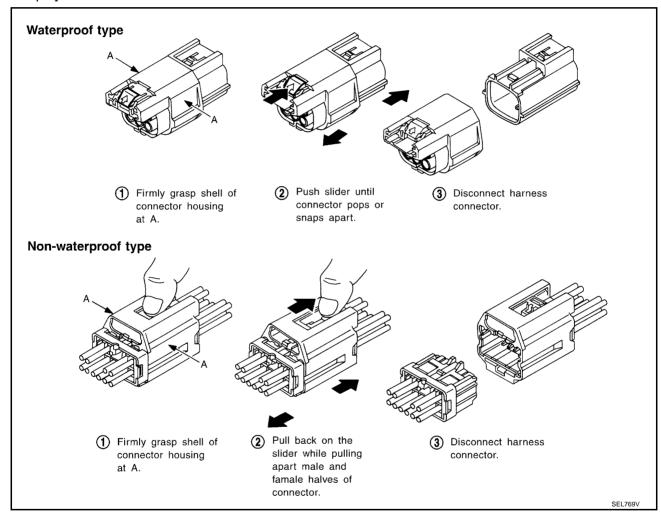
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

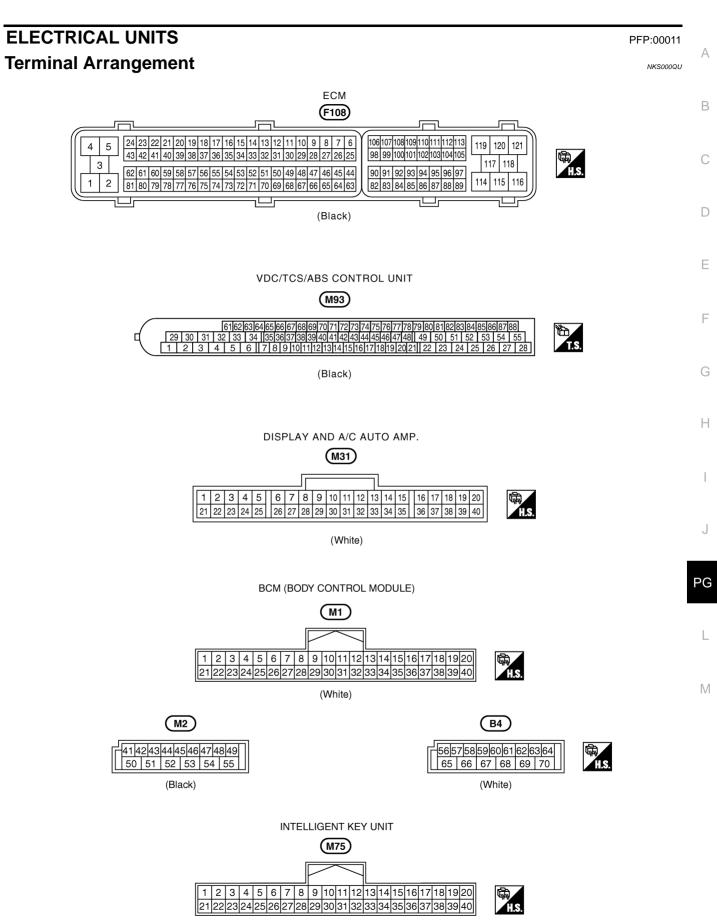
CAUTION:

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

[Example]



ELECTRICAL UNITS



CKIM0587E

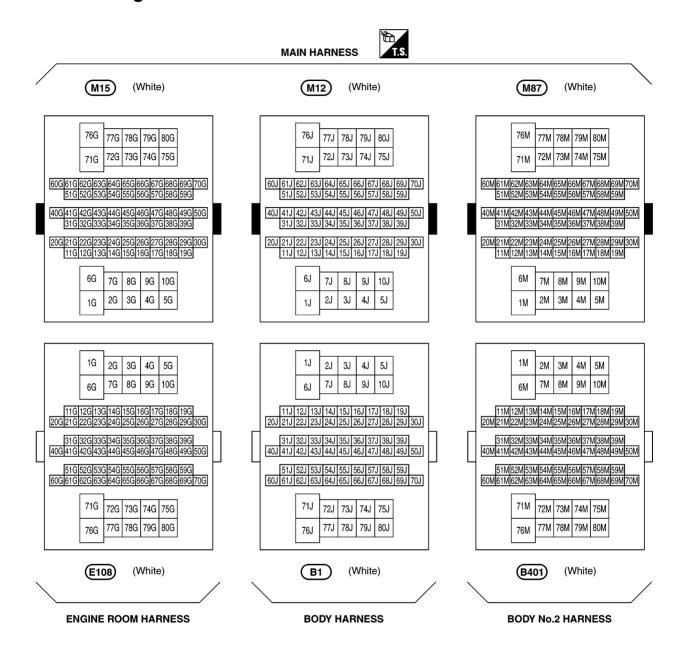
(White)

SMJ (SUPER MULTIPLE JUNCTION)

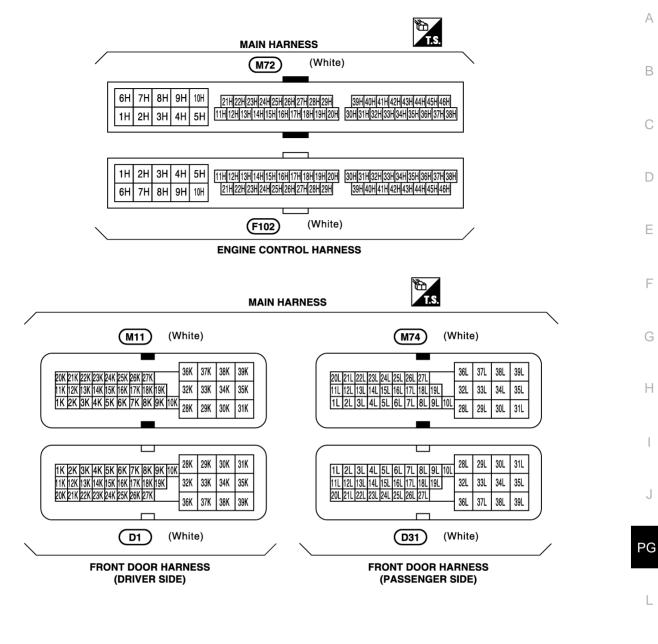
SMJ (SUPER MULTIPLE JUNCTION) Terminal Arrangement

PFP:B4341

NKS000QV



SMJ (SUPER MULTIPLE JUNCTION)



CKIT0158E

PG-73 Revision: 2006 August 2006 G35 Coupe

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STANDARDIZED RELAY

STANDARDIZED RELAY

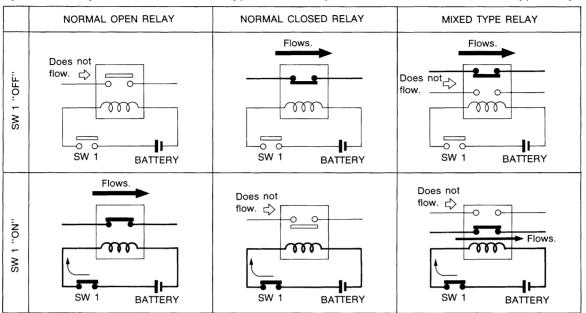
PFP:00011

NKS000QW

Description

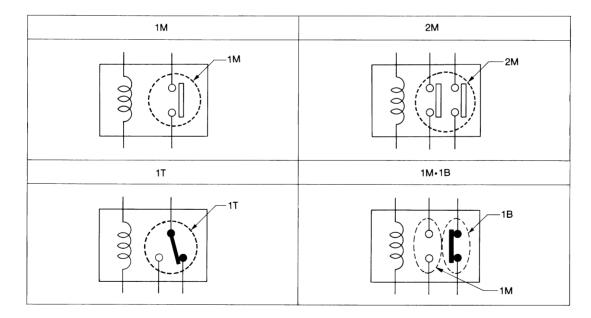
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



SEL881H

TYPE OF STANDARDIZED RELAYS



SEL882H

STANDARDIZED RELAY

Туре	Outer view	Circuit	Connector symbol and connection	Case color
1Т	3 4	(S)	5 2 4 1 3	BLACK
2M		① ⑥ ③ ② ⑦ ⑤	2 1 7 5 6 3	BROWN
1M•1B		① ⑥ ③	2 1 6 7 3 4	GRAY
1M	3 5	① ⑤ ② ③	5 2 1 3 5 2 1	BLUE

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

SEL188W

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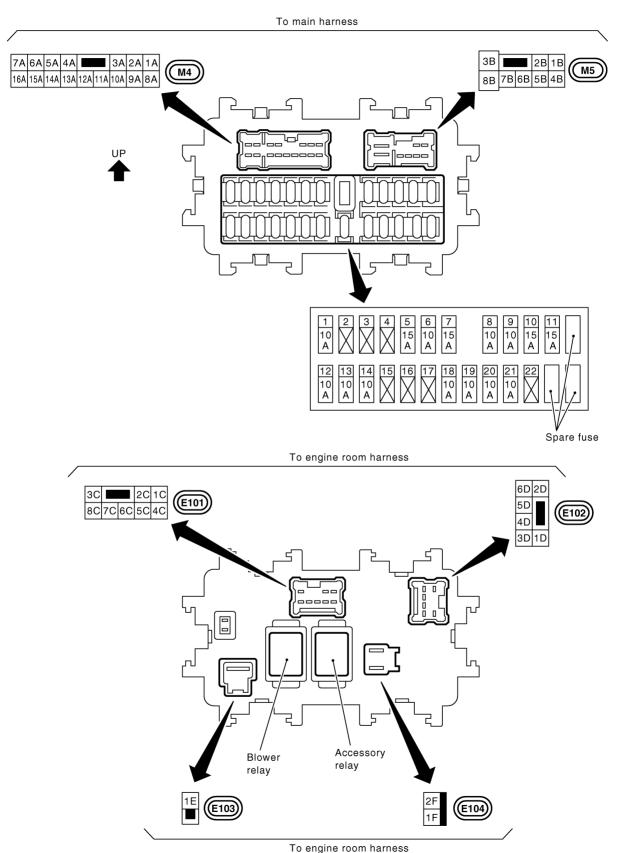
FUSE BLOCK - JUNCTION BOX (J/B)

FUSE BLOCK - JUNCTION BOX (J/B)

PFP:24350

Terminal Arrangement

NKS000QX



CKIM0585E

FUSE, FUSIBLE LINK AND RELAY BOX

PFP:24382

NKS000QY

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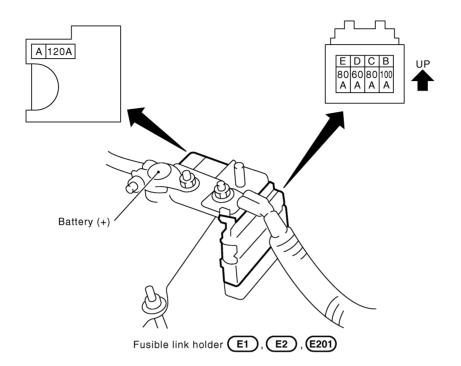
Е

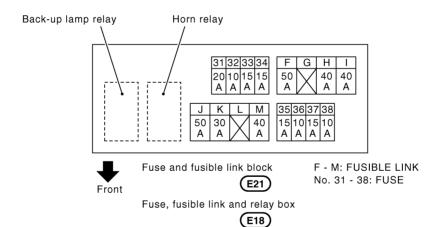
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Terminal Arrangement





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CKIM0586E

FUSE, FUSIBLE LINK AND RELAY BOX