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# POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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## **PRECAUTIONS**

PRECAUTIONS PFP:00001

# **Precautions for Battery Service**

KS003RD

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

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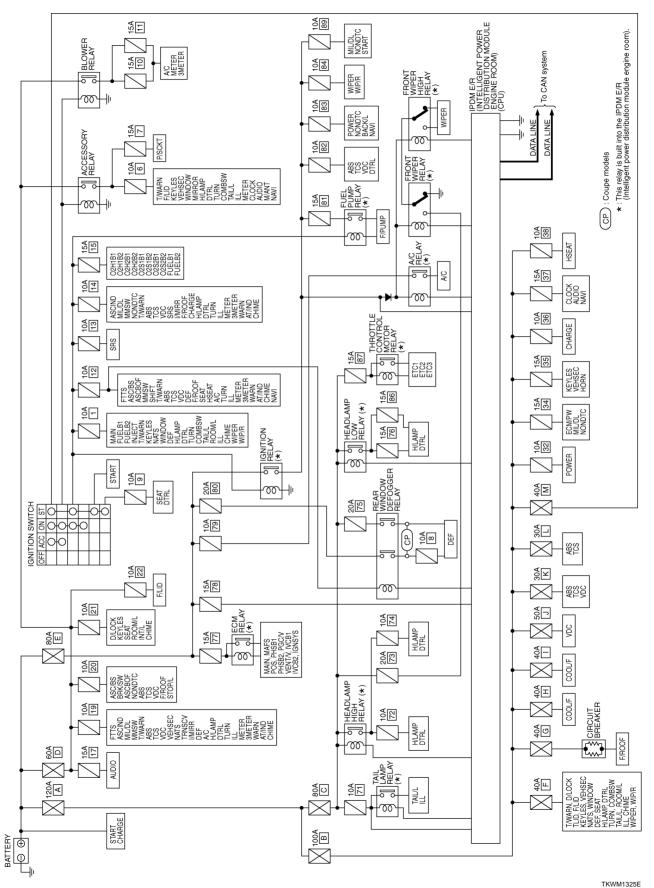
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# POWER SUPPLY ROUTING CIRCUIT

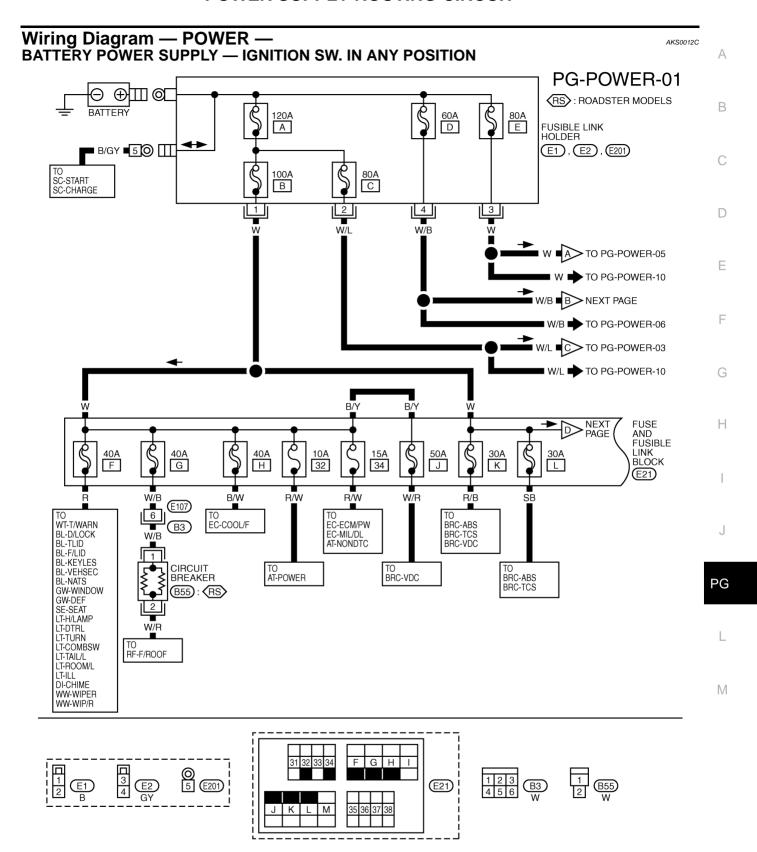
**Schematic** 

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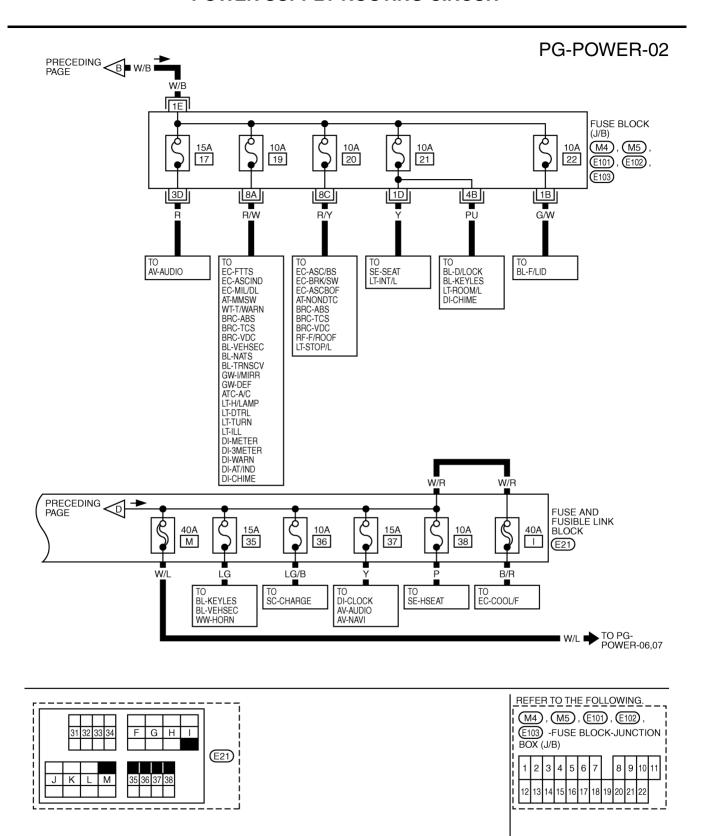


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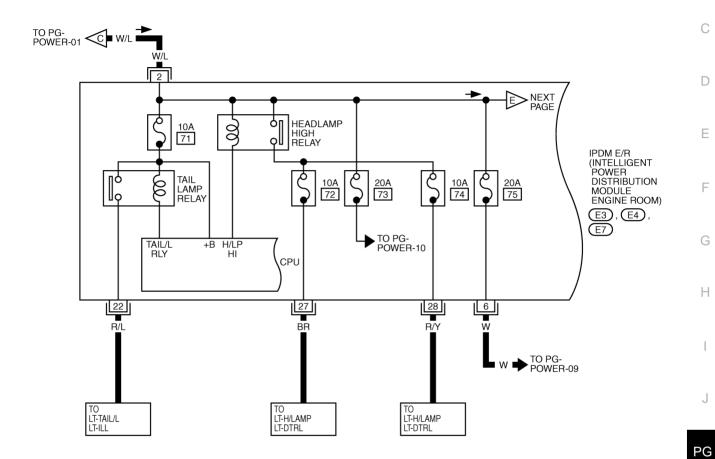


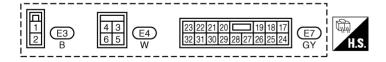
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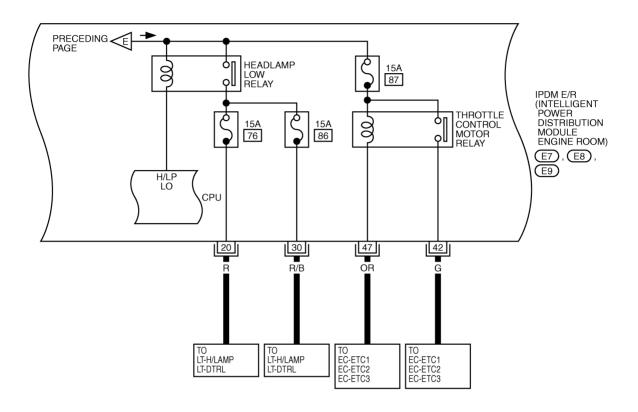


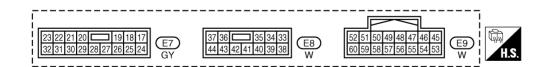
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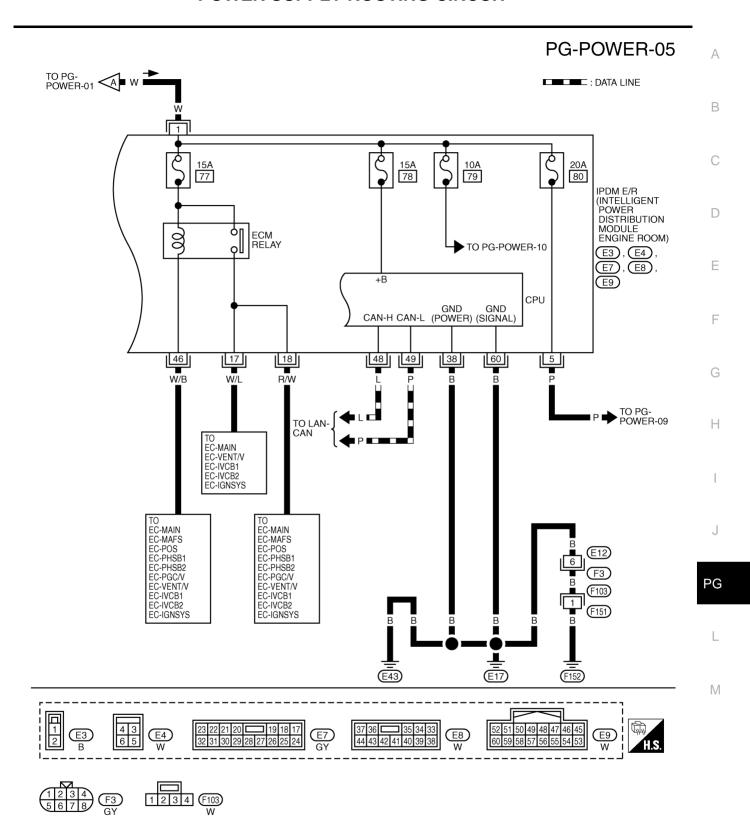
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# PG-POWER-04





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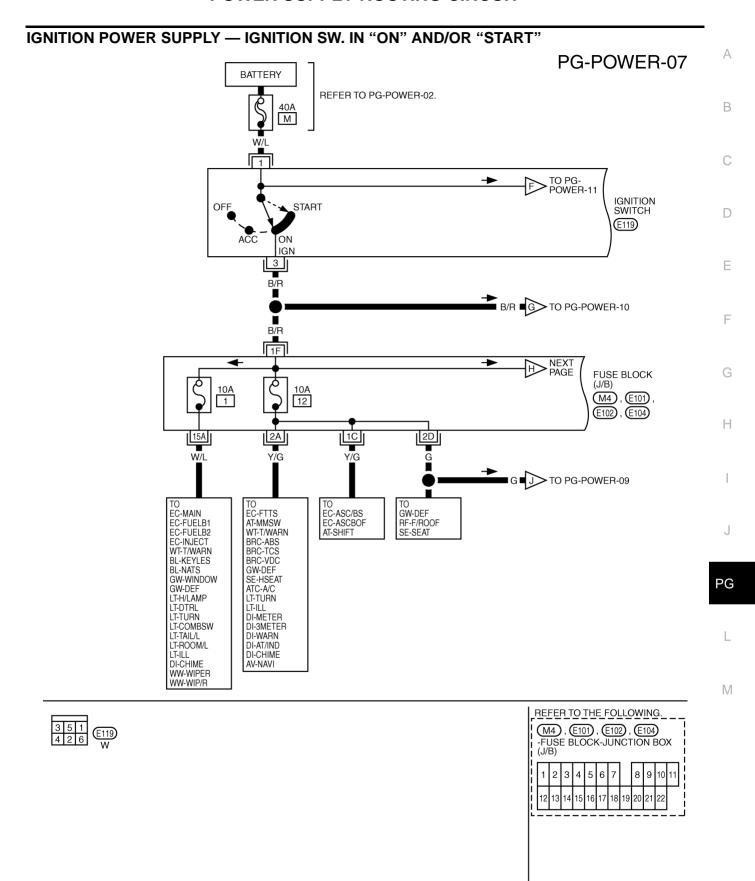


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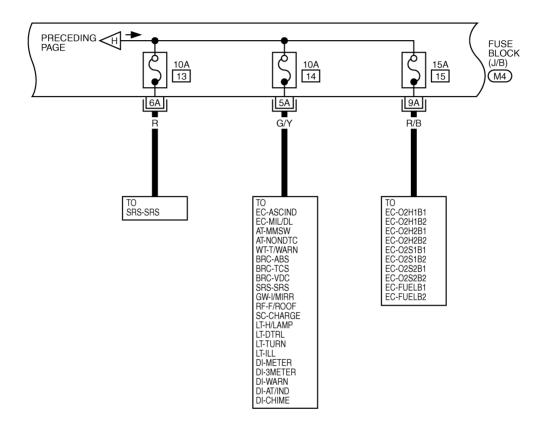
#### ACCESSORY POWER SUPPLY — IGNITION SW. IN "ACC" OR "ON" PG-POWER-06 BATTERY REFER TO PG-POWER-01.02. FUSIBLE LINK HOLDER 40A M 60A D (E2) 4 W/L W/B OFF START IGNITION **SWITCH** (E119) ACC ON ACC 2 W/B W/B W/B W/B 6C 3C 3 「 宜 3 ACCESSORY RELAY ПQ BLOWER RELAY 9 FUSE BLOCK IJφ (J/B) 5 5 2 (M4), (M5),E101), E103) 10A 6 15A 7 15A 10 11 ЗВ 11A 7B 8B R/G L/W LG В L/W TO WT-T/WARN TO WW-P/SCKT BL-F/LID BL-KEYLES BL-VEHSEC TO ATC-A/C GW-WINDOW DI-METER GW-MIRROR LT-H/LAMP DI-3METER LT-H/LAMP LT-DTRL LT-TURN LT-COMBSW LT-TAIL/L LT-ILL DI-METER DI-CLOCK AV-AUDIO AV-M/ANT (M30) (M66) AV-NAVI REFER TO THE FOLLOWING. 3 4 E2 GY 3 5 1 4 2 6 W (M4), (M5), (E101), (E103) -FUSE BLOCK-JUNCTION BOX 4 5 6 8 9 12 13 14 15 16 17 18 19 20 21

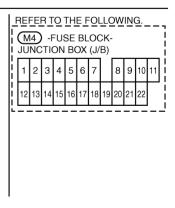
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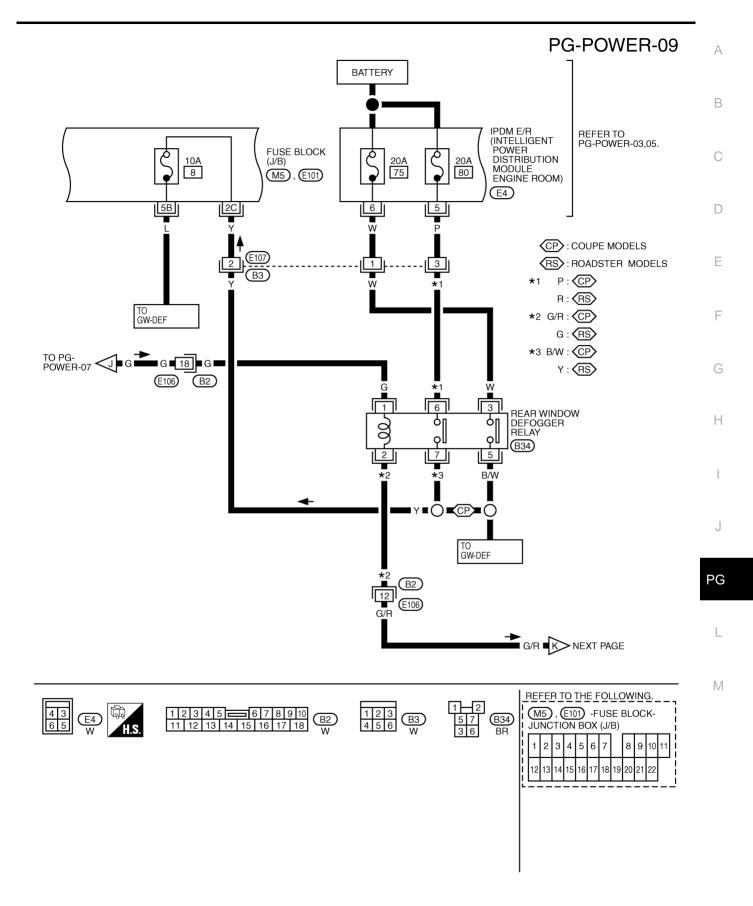
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## PG-POWER-08

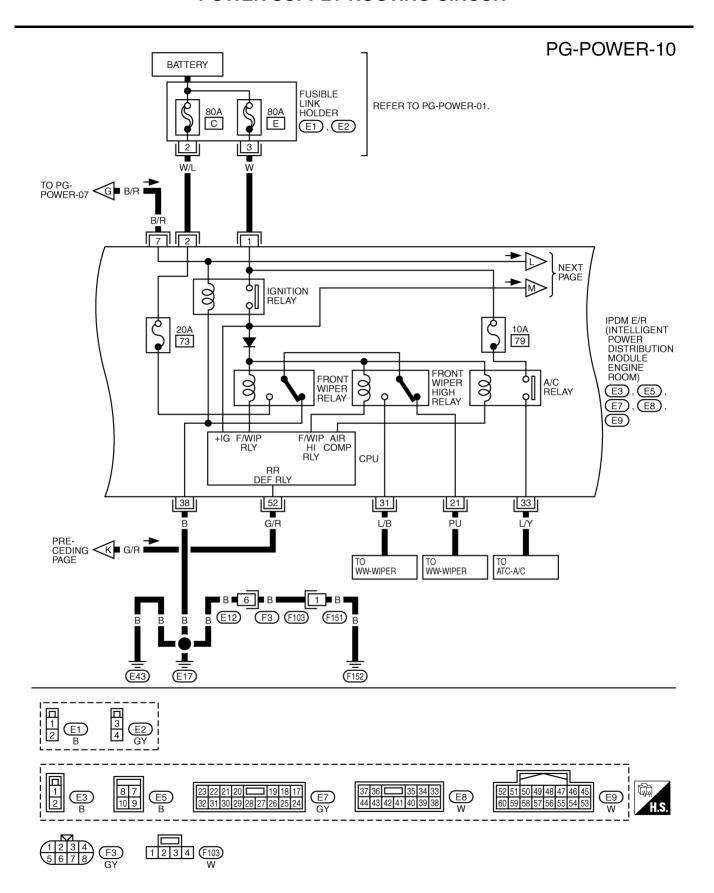




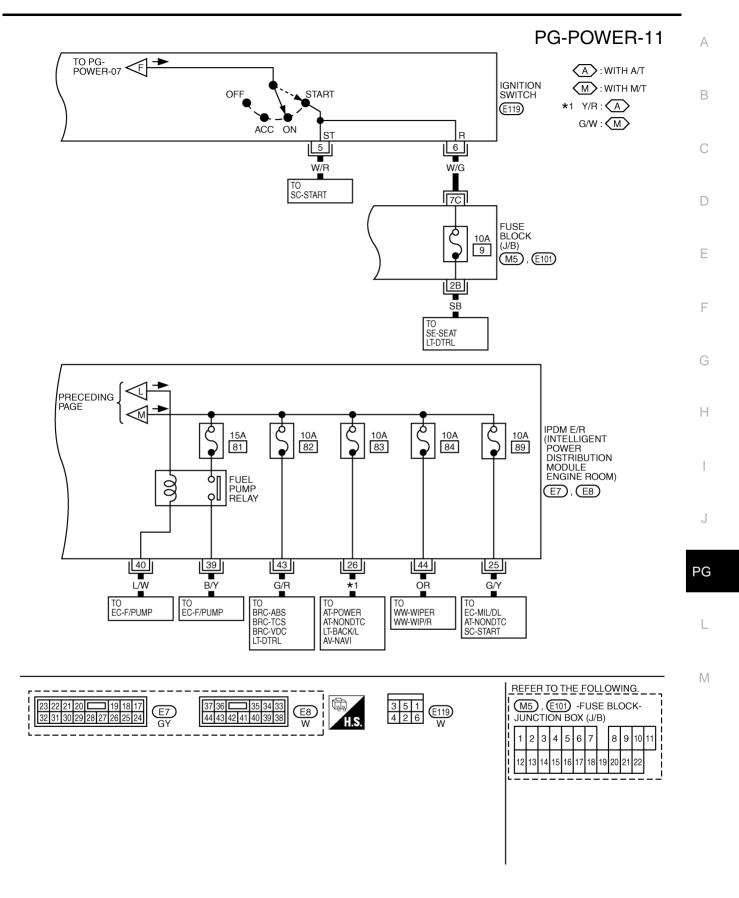
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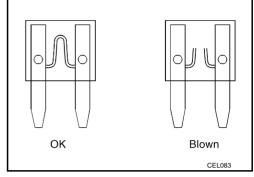


TKWM1330E

Fuse

 If fuse is blown, be sure to eliminate cause of incident before installing new fuse.

- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for "ELECTRICAL PARTS (BAT)" if vehicle is not used for a long period of time.

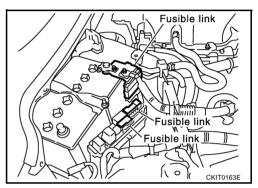


#### **Fusible Link**

A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

#### **CAUTION:**

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

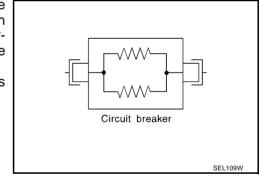


AKS0012F

AKS0012E

#### 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)

PFP:284B7

## **System Description**

AKS00A2H

- IPDM E/R (Intelligent Power Distribution Module Engine Room) integrates the relay box and fuse block which were originally placed in engine room. 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, 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

- 1. Lamp control
  - Using CAN communication line, it receives signal from BCM and controls the following lamps:
  - Headlamps (Hi, Lo)
  - Parking lamps
  - Tail lamps
  - License plate lamps
- 2. Wiper control
  - Using CAN communication line, it receives signals from BCM and controls the front wipers.
- 3. Headlamp washer control
  - Using CAN communication line, it receives signals from BCM and controls the headlamp washer.
- Rear window defogger relay control
   Using CAN communication line, it receives signals from BCM and controls the rear window defogger
   relay.
- 5. A/C compressor control Using CAN communication line, it receives signals from ECM and controls the A/C relay.
- Cooling fan control
   Using CAN communication line, it receives signals from ECM and controls cooling fan 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
Llo a dia man	With the ignition switch ON, the headlamp (low) is ON.
Headlamp	With the ignition switch OFF, the headlamp (low) is OFF.
Tail and parking lamps	With the ignition switch ON, the tail and parking lamps is ON.
Tail and parking lamps	With the ignition switch OFF, the tail and parking 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 OFF
A/C compressor	A/C compressor OFF

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#### IPDM E/R STATUS CONTROL

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

- 1. CAN communication status
  - CAN communication is normally performed with other control units.
  - Individual unit control by IPDM E/R is normally performed.
  - When sleep request signal is received from BCM, mode is switched to sleep waiting status.
- 2. Sleep waiting status
  - Process to stop CAN communication is activated.
  - All systems controlled by IPDM E/R are stopped. When 1 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 current-consumption 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**

AKS00A2

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**

AKS00A2

Refer to LAN-5, "CAN Communication Unit" .

# **Function of Detecting Ignition Relay Malfunction**

AKS00A2K

- 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 IPDM E/R 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 lamp is OFF.

CONSULT-II

CONSULT-II performs the following functions with combination of data receiving, command and transmission using the CAN communication line from the IPDM E/R.

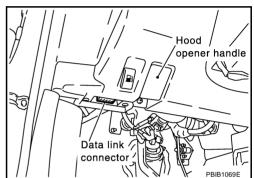
Inspection Item, Diagnosis Mode	Description
SELF-DIAG RESULTS	The IPDM E/R performs diagnosis of the CAN communication and self-diagnosis.
DATA MONITOR	The input/output data of the IPDM E/R is displayed in real time.
CAN DIAG SUPPORT MNTR	The result of transmit/receive of CAN communication can be read.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

#### **CONSULT-II BASIC OPERATION**

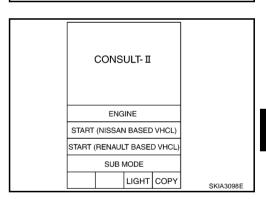
#### CAUTION

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.

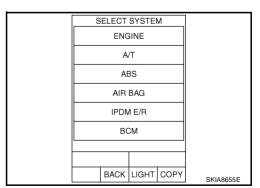
1. With the ignition switch OFF, connect CONSULT-II and CON-SULT-II CONVERTER to the data link connector, then turn the ignition switch ON.



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



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



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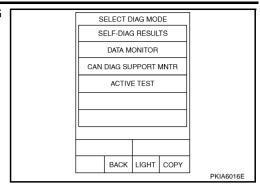
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 Select the desired part to be diagnosed on the "SELECT DIAG MODE" screen.



#### **SELF-DIAG RESULTS**

#### **Operation Procedure**

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

## **Display Item List**

Display Items	CONSULT-II	Malfunction detecting condition $\vdash$		ИΕ	Possible causes
Display items	display code			PAST	1 Ossible causes
NO DTC IS DETECTED.FURTHER TESTING MAY BE REQUIRED.	-	-	-	-	-
CAN COMM CIRC	U1000	<ul> <li>If CAN communication reception/transmission data has a malfunction, or if any of the control units malfunction, data reception/transmission cannot be confirmed.</li> <li>When the data in CAN communication is not received before the specified time</li> </ul>	×	×	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 "START".
- 4. Touch the required monitoring item on "SELECTION FROM MENU". In "ALL SIGNALS", all items are monitored. In "MAIN SIGNALS", predetermined items are monitored.
- 5. Touch "RECORD" while monitoring to record the status of the item being monitored. To stop recording, touch "STOP".

# All Items, Main Items, Select Item Menu

			Monitor item selection			
Item name	CONSULT-II screen display	Display or unit	ALL SIGNALS	MAIN SIGNALS	SELECT 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
Front fog request NOTE	FR FOG REQ	ON/OFF	×	×	×	Signal status input from BCM
Head lamp washer request	HL WASHER REQ	ON/OFF	×		×	Signal status input from BCM
Front 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	ON/OFF	×		×	Status of input signal NOTE
Ignition relay status	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 NOTE	OIL P SW	OPEN/CLOSE	×		×	Signal status input in IPDM E/R
Day time light request NOTE	DTRL REQ	ON/OFF	×		×	Signal status input from BCM
Hood switch	HOOD SW	ON/OFF	×		×	Signal status input in IPDM E/R
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.
- "FR FOG REQ" and "OIL P SW" items are displayed, but they cannot be monitored.
- Only the vehicle which day time light system is mounted with operates.

## **ACTIVE TEST**

#### **Operation Procedure**

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

Test item	CONSULT-II screen display	Description		
Tail lamp output	TAIL LAMP	With a certain ON-OFF operation, the tail lamp relay can be operated.		
Rear window defogger output	REAR DEFOGGER	With a certain ON-OFF operation, the rear window defogger relay can be operated.		
Front wiper (HI, LO) output	FRONT WIPER	With a certain operation (OFF, HI ON, LO ON), the front wiper relay (Lo, Hi) can be operated.		
Cooling fan output	MOTOR FAN	With a certain operation (1,2,3,4), the cooling fan can be operated.		

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Test item	CONSULT-II screen display	Description
Headlamp washer	HEAD LAMP WASHER	Push "ON" button, headlamp washer relay operates one second.
Lamp (HI, LO,FOG <sup>NOTE</sup> ) output	LAMPS	With a certain operation (OFF, HI ON, LO ON, FOG ON <sup>NOTE</sup> ), the lamp relay (Lo, Hi, Fog <sup>NOTE</sup> ) can be operated.
Horn output	HORN	Push "ON" button, horn relay operates 20ms.

#### NOTE:

- The cornering lamp items are displayed, but they cannot be tested.
- The fog lamp items are displayed, but they cannot be tested.

# Auto Active Test DESCRIPTION

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- In auto active test mode, operation inspection can be performed when IPDM E/R sends a drive signal to the following systems:
- Rear window defogger
- Front wipers
- Tail and parking lamps
- Headlamps (Hi, Lo)
- A/C compressor (magnetic clutch)
- Cooling fan

#### **OPERATION PROCEDURE**

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

#### NOTE:

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

- 2. Turn ignition switch OFF.
- 3. Turn ignition switch ON and, within 20 seconds, press front door switch (driver side) 10 times. Then turn ignition switch OFF.
- 4. Turn ignition switch ON within 10 seconds after ignition switch OFF.
- When auto active test mode is actuated.
- After a series of operations is repeated three times, auto active test is completed.

#### NOTE:

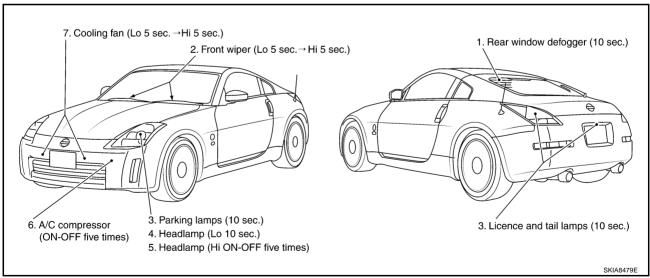
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

#### CAUTION:

Be sure to inspect BL-40, "Door Switch Check" 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.



#### NOTE:

It will take ten seconds from 3 to 4.

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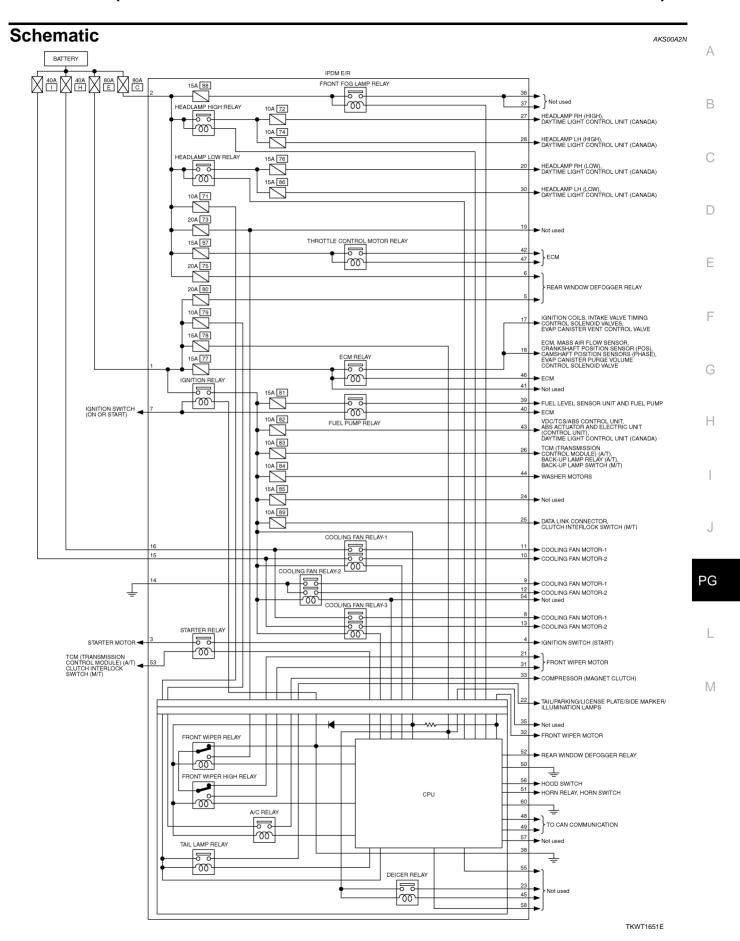
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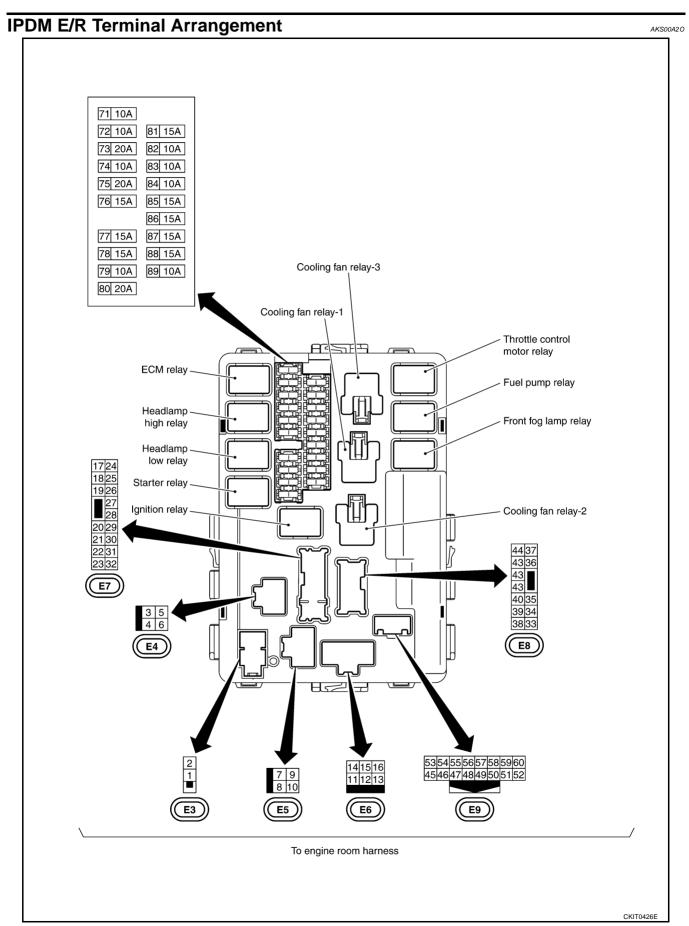
## **Concept of Auto Active Test**

- 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 conte	nts	Possible cause
Rear window defogger test. I	Perform auto active	YES	BCM signal input circuit
	test. Does rear win- dow defogger oper-	NO	<ul> <li>Rear window defogger relay circuit</li> <li>Open circuit of rear window defogger</li> <li>IPDM E/R malfunction</li> </ul>
		YES	BCM signal input system
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 not operate.	Perform auto active test. Does magnetic clutch operate?	YES	<ul> <li>BCM signal input circuit</li> <li>CAN communication signal between BCM and ECM.</li> <li>CAN communication signal between ECM and IPDM E/R</li> <li>Magnetic clutch malfunction</li> <li>Harness/connector malfunction between IPDM E/R and magnetic clutch</li> <li>IPDM E/R (integrated relay) malfunction</li> </ul>
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	YES	ECM signal input circuit     CAN communication signal between ECM and IPDM E/R
		NO	<ul> <li>Cooling fan motor malfunction</li> <li>Harness/connector malfunction between IPDM E/R and cooling fan motor</li> <li>IPDM E/R (integrated relay) malfunction</li> </ul>





NOTE:

Front fog lamp relay does not used.

## **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.	Signal name	Fuse, fusible link No.
1, 2	Battery power	F/L-C, F/L-E, Fuse No. 71,78

#### OK or NG

OK >> GO TO 2.

NG >> Replace fuse or fusible link.

# 2. CHECK POWER SUPPLY CIRCUIT

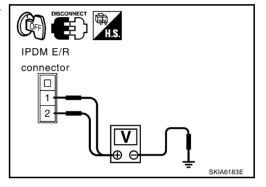
- Turn ignition switch OFF.
- 2. Disconnect IPDM E/R harness connector E3.
- 3. Check voltage between IPDM E/R harness connector E3 terminals 1 (W), 2 (W/L) and ground.

#### **Battery voltage should exist.**

## OK or NG

OK >> GO TO 3.

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



# 3. CHECK GROUND CIRCUIT

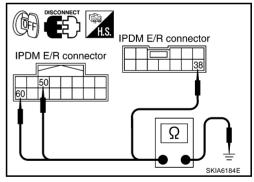
- 1. Disconnect IPDM E/R harness connectors E8 and E9.
- 2. Check continuity between IPDM E/R harness connectors E8 terminal 38 (B), E9 terminal 50 (B), 60 (B) and ground.

#### Continuity should exist.

#### OK or NG

OK >> INSPECTION END

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



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## Inspection With CONSULT-II (Self-Diagnosis)

AKS00A2Q

#### 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 Diagnosis System Selection 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
CONSULT-II display		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 <a href="LAN-3">LAN-3</a>, "Precautions When Using CONSULT-II".

# Removal and Installation of IPDM E/R REMOVAL

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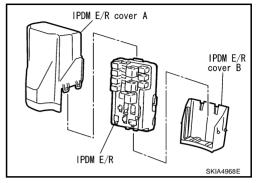
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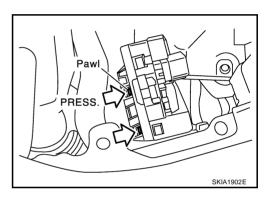
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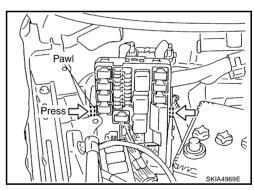
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- Remove battery. Refer to <u>SC-9, "Removal and Installation"</u> in "Starting and Charging System (SC)" section.
- Remove IPDM E/R cover A. While pressing pawl on backside of IPDM E/R cover B toward vehicle front to unlock, lift up IPDM E/R.





- 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**

Install in the reverse order of removal.

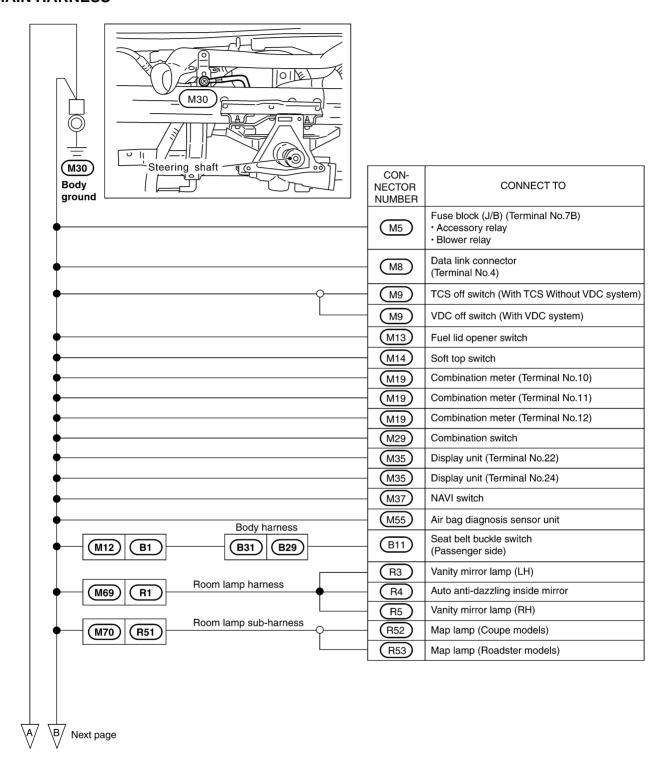
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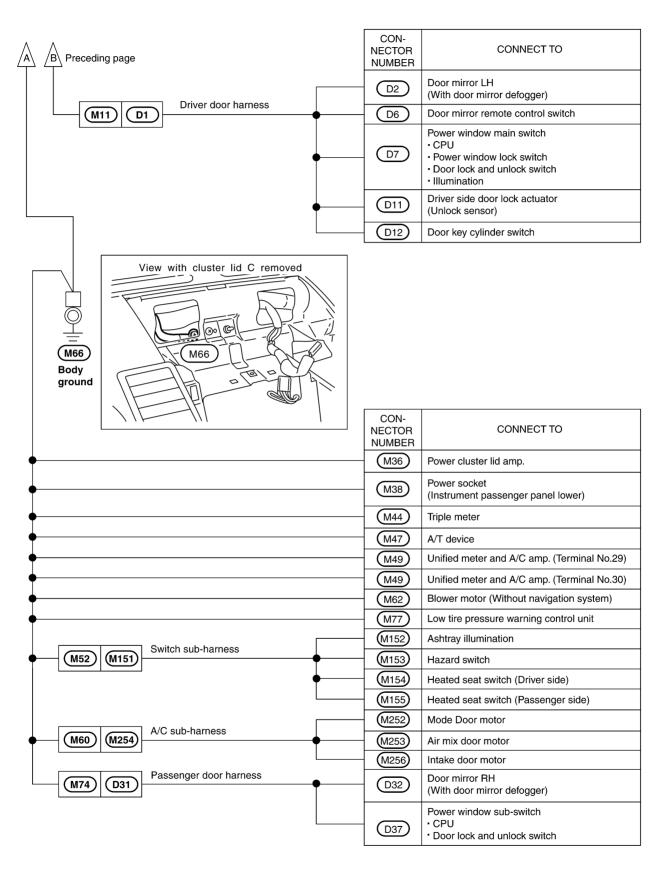
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GROUND PFP:00011

# **Ground Distribution MAIN HARNESS**

AKS0012P





CKIT0455E

Revision: 2004 December PG-31 2004 350Z

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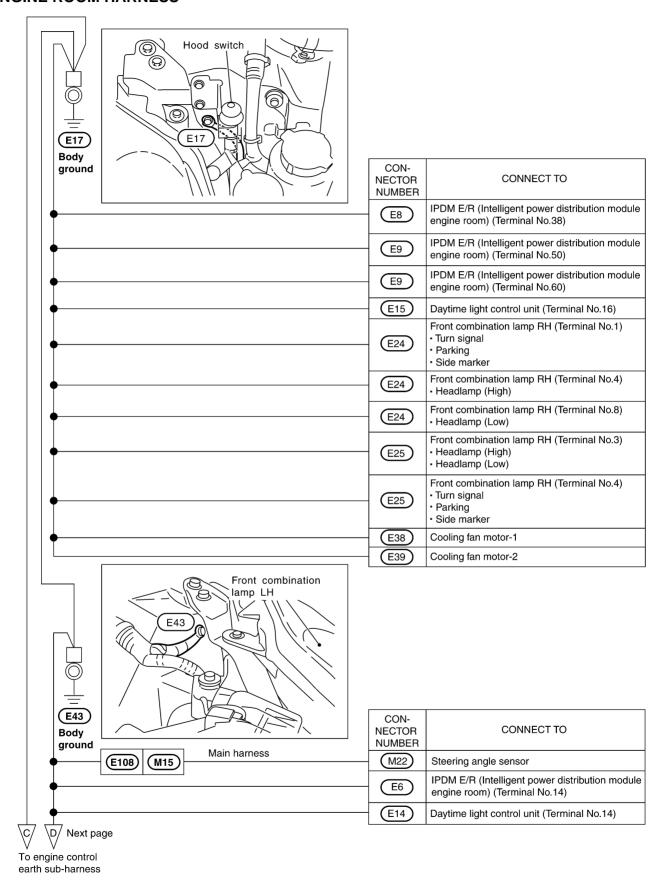
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#### **ENGINE ROOM HARNESS**



# **GROUND**

Preceding page			
	CON- NECTOR NUMBER	CONNECT TO	
•	E23	Hood switch	
•	E30	Washer level sensor	
•	E33	Horn (Low)	
•	E36	Horn (High)	
	E40	Front combination lamp LH (Terminal No.1) • Turn signal • Parking • Side marker	
	E40	Front combination lamp LH (Terminal No.4) • Headlamp (High) (For U.S.A)	
•	E40	Front combination lamp LH (Terminal No.8) • Headlamp (Low)	
	E41	Front combination lamp LH (Terminal No.3)  • Headlamp (High) (For U.S.A)  • Headlamp (Low) (For U.S.A)	
	E41	Front combination lamp LH (Terminal No.4)  • Turn signal  • Parking  • Side marker	
•	E44	Brake fluid lever switch	
<b></b>	E51	ABS actuator and electric unit (Terminal No.16)	
<u> </u>	E51)	ABS actuator and electric unit (Terminal No.30)	
<u> </u>	E52	Front wiper motor	
<u></u>	E105	BCM (Body control module)	
<u> </u>	E111	Stop lamp switch (With A/T)	
<b>+</b>	E118	VDC/TCS/ABS control unit (Terminal No.28)	
	E118	VDC/TCS/ABS control unit (Terminal No.29)	

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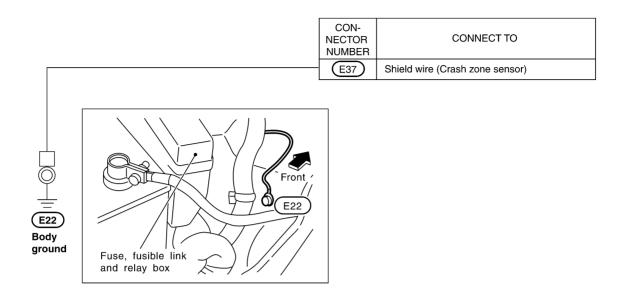
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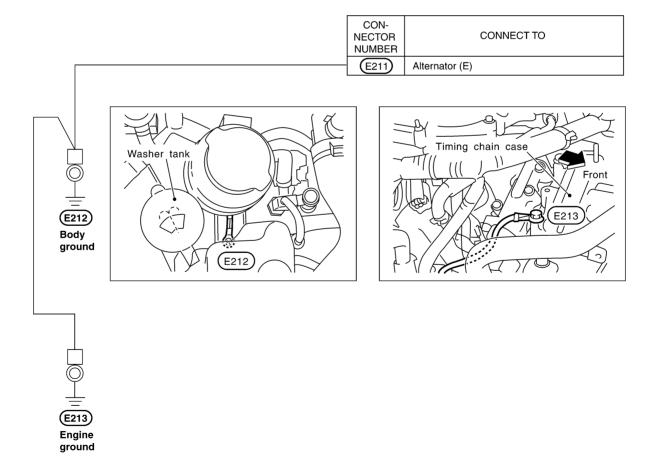
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CKIT0457E

## **GROUND**

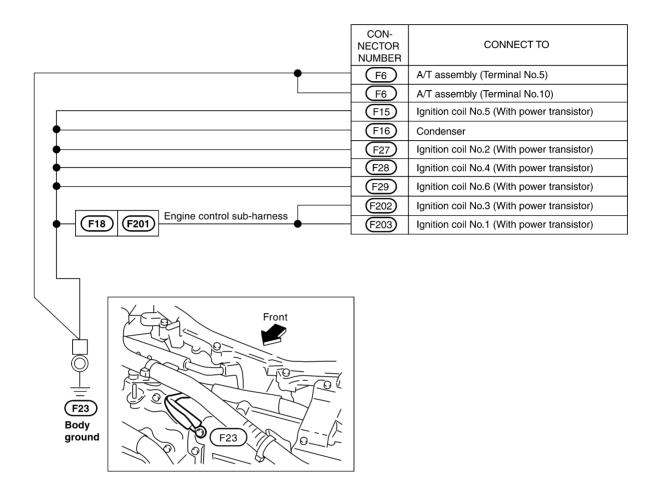




CKIT0170E

## **GROUND**

#### **ENGINE CONTROL HARNESS**



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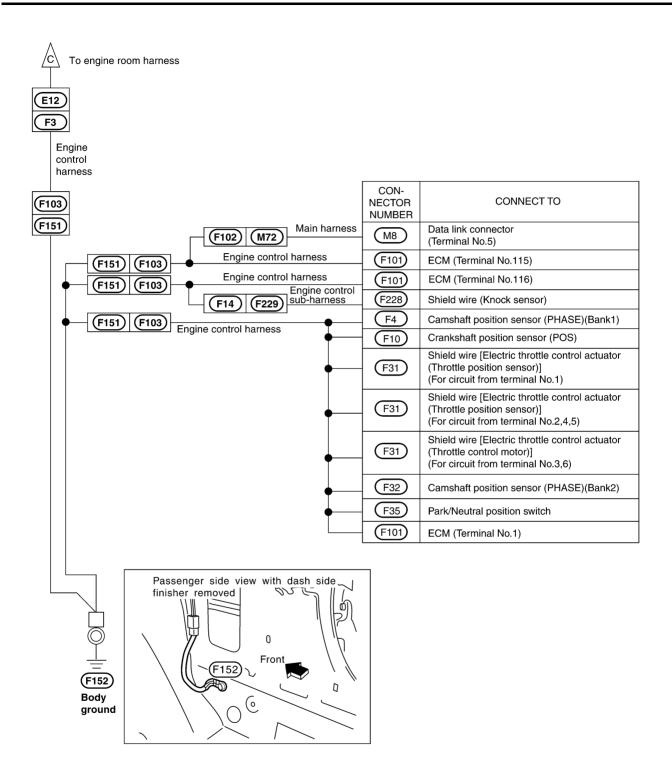
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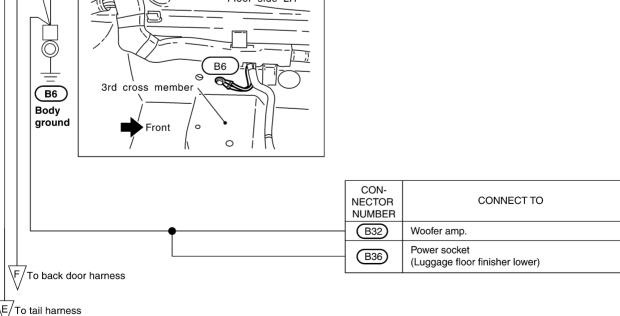
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CKIT0171E



CKIT0458E

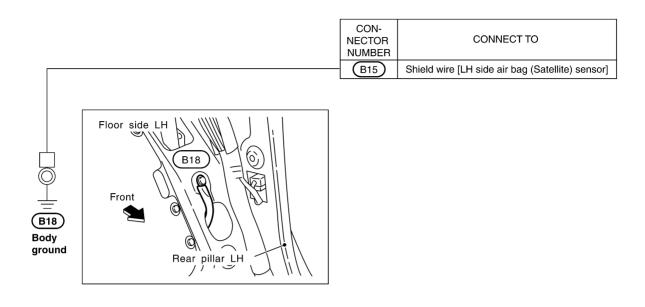
## **BODY HARNESS** Α **Coupe Models** В Floor side LH 2nd cross member D **B**5 В5 **Body** ground F CON-CONNECT TO B1 (M12) **NECTOR** NUMBER (B1 M12 M62 Blower motor (With navigation system) B8 Seat belt buckle switch (Driver side) (B26) Condenser Fuel level sensor unit and fuel pump (B27) (Fuel pump) Н B37 Heated seat relay B41 Luggage floor box lamp Power seat B326 Power seat switch (Driver side) sub-harness (Driver side)\* В7 (B334) (B332) Seat cushion heater (Driver side) (B342) Power seat switch (Passenger side) Power seat sub-harness (Passenger side)\* Seat cushion heater (B12 (B341) (B351) (Passenger side) \*: This sub-harness is not shown in "HARNESS LAYOUT". PG Floor side LH

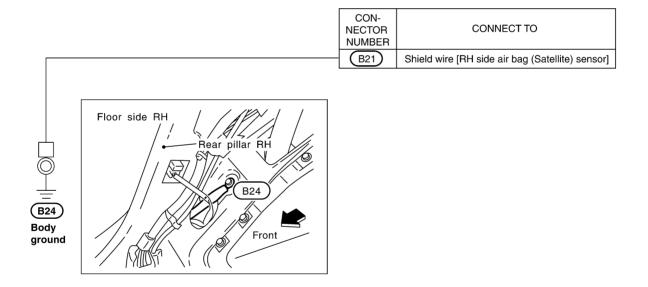


CKIT0459F

**PG-37** Revision: 2004 December 2004 350Z

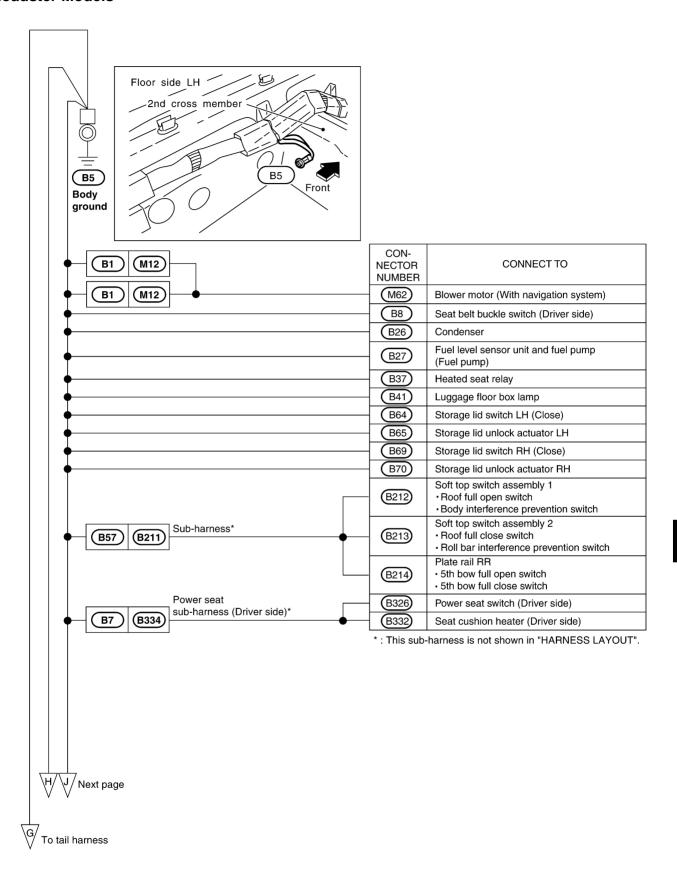
## **GROUND**





CKIT0174E

## **Roadster Models**



CKIT0460E

Revision: 2004 December **PG-39** 2004 350Z

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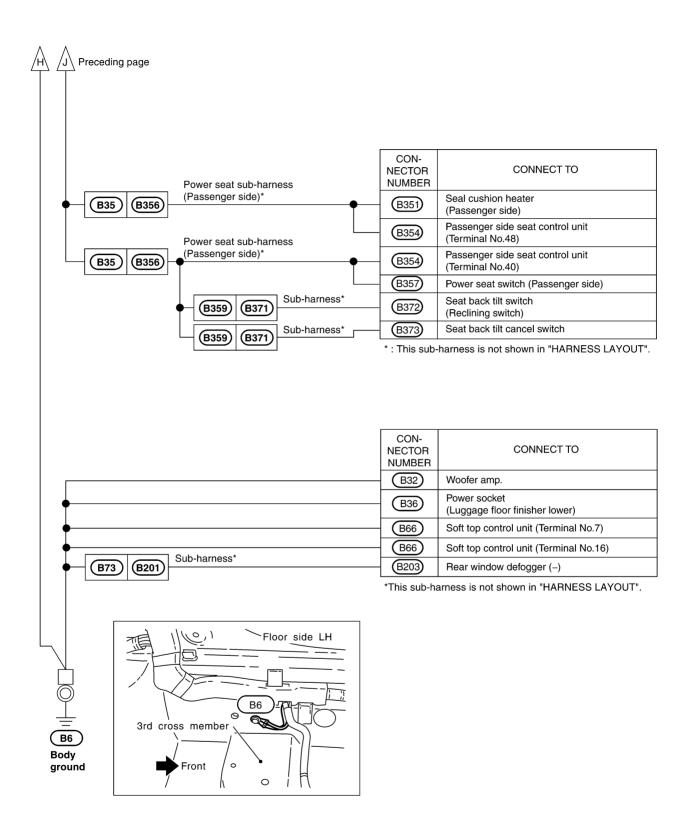
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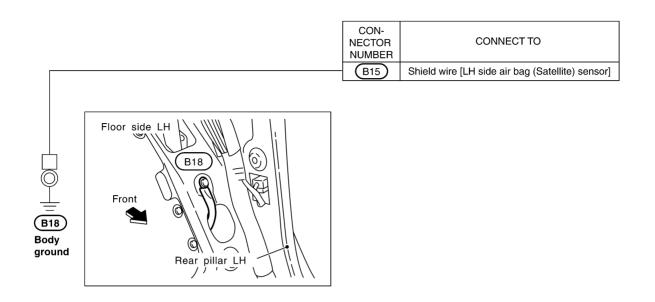
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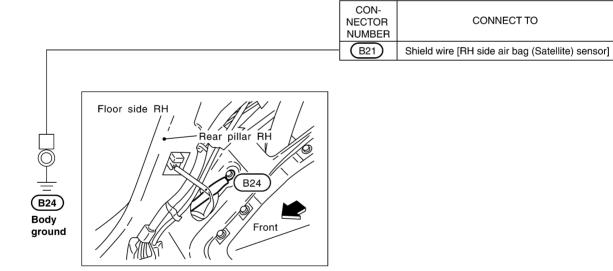
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CKIT0470E

## **GROUND**





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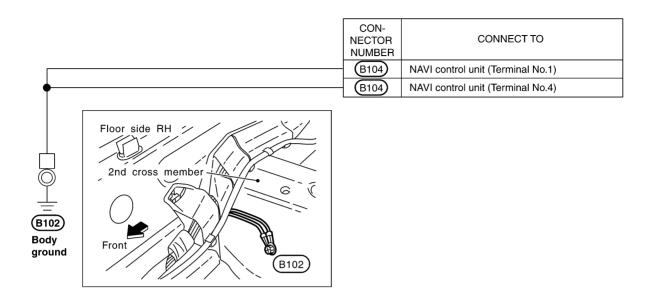
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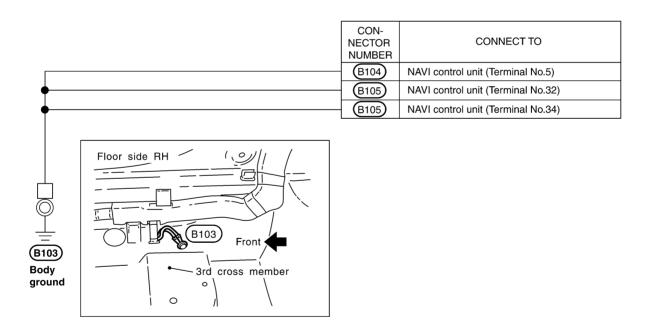
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CKIT0174E

## **BODY NO.2 HARNESS**





CKIT0360E

## **GROUND**

## **TAIL HARNESS Coupe Models** To body harness B43 T1 CON-**NECTOR** CONNECT TO NUMBER (T6) BOSE speaker amp. Rear combination lamp LH (Body side) T8 (Terminal No.4) · Side marker Rear combination lamp LH (Body side) T9 (Terminal No.3) · Tail and stop Rear combination lamp LH (Bumper side) T10 · Back-up Turn signal (T11) Back door opener actuator T12 Back door switch Rear combination lamp RH (Body side) (Terminal No.4) (T16) · Side marker Rear combination lamp RH (Body side) T17 (Terminal No.3) · Tail and stop Rear combination lamp RH (Bumper side) T18 · Back-up Turn signal Fuel lid opener actuator T19 (T102) License plate lamp LH Tail sub-harness T15 (T101) T104 License plate lamp RH View with luggage room rear panel removed T14 Body Front ground

CKIT0462E

Revision: 2004 December PG-43 2004 350Z

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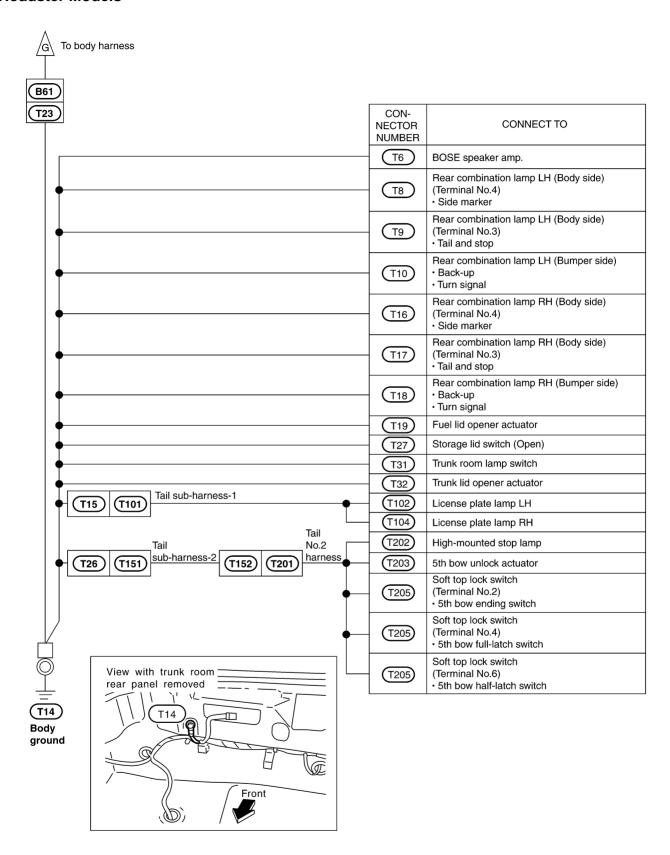
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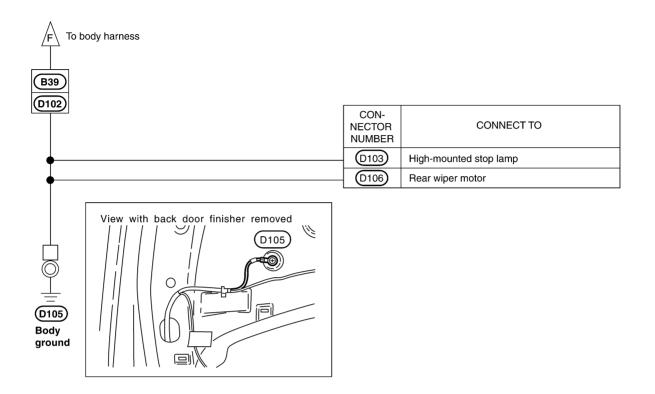
## **GROUND**

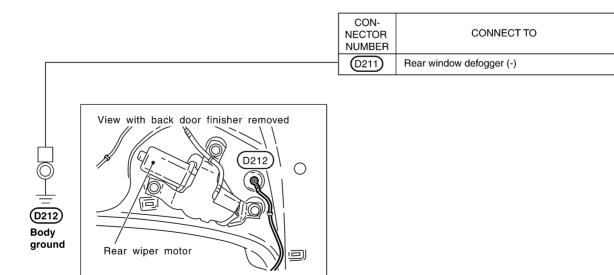
## **Roadster Models**



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## **BACK DOOR HARNESS**





CKIT0464E

Revision: 2004 December PG-45 2004 350Z

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HARNESS PFP:00011

Example:

G2

(E1)

Grid reference

B/6

Connector number

## Harness Layout HOW TO READ HARNESS LAYOUT

AKS0012Q

: ASCD ACTUATOR

SEL252V

Connector color/Cavity

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

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

## To use the grid reference

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

## **CONNECTOR SYMBOL**

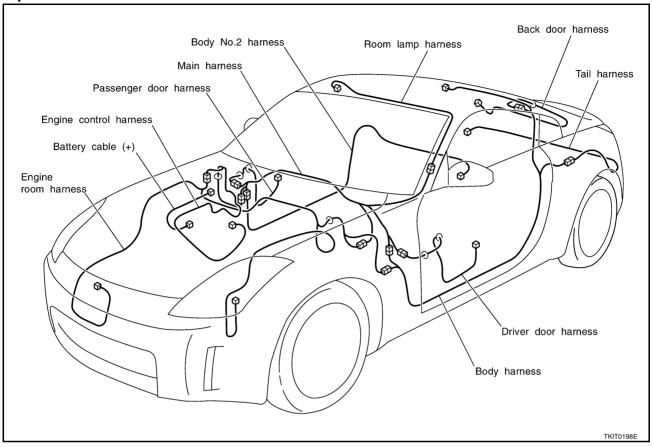
Main symbols of connector (in Harness Layout) are indicated in the below.

	Water	proof type	Stand	dard type
Connector type	Male	Female	Male	Female
Cavity: Less than 4     Relay connector	<b>Ø</b>	60	<b>(3)</b>	
Cavity: From 5 to 8				
Cavity: More than 9		$\Diamond$		$\Diamond$
Ground terminal etc.		_		Ø

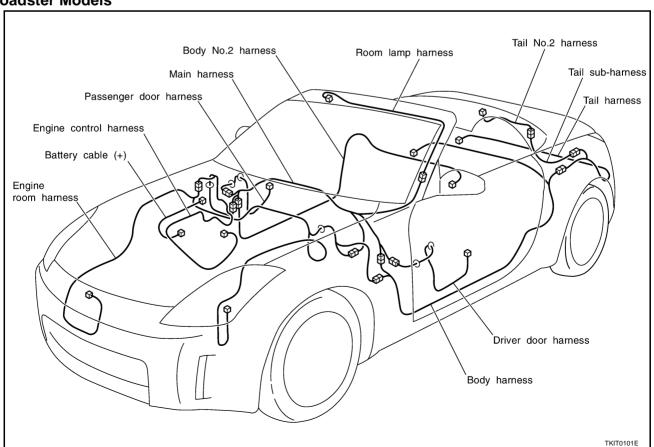
CKIT0108E

## **OUTLINE**

## **Coupe Models**



## **Roadster Models**



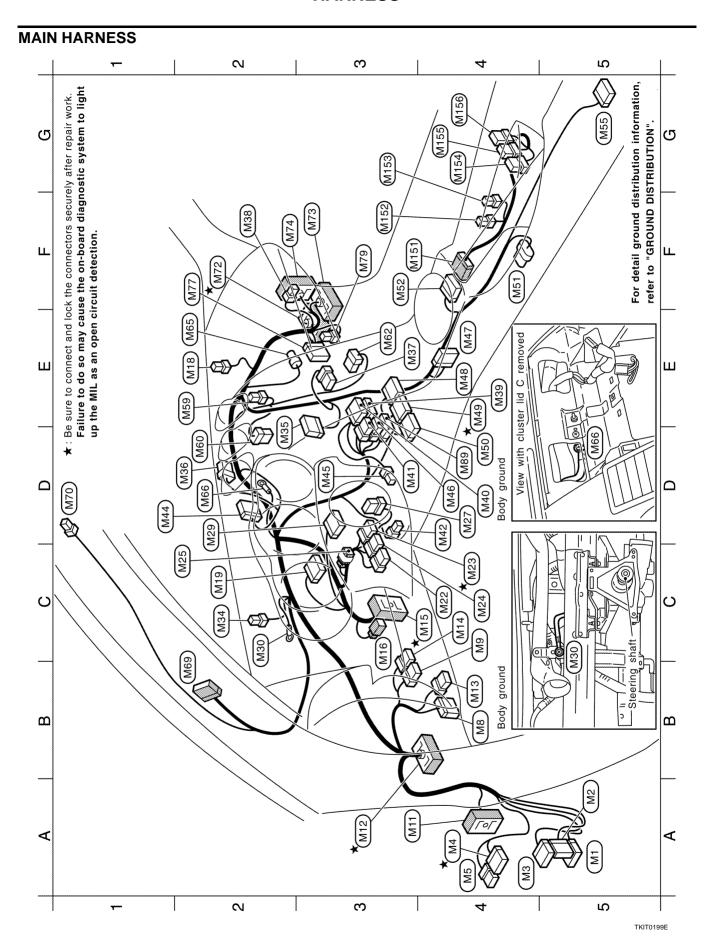
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Switch sub-harness	F3 (M151) W/12 : To (M52)	M152 W/2	(M153) W/4 : Hazard switc	G4 (M154) W/6 : Heated seat switch	- 7		G4 (M155) BH/6 : Heated seat switch	(Passenger side)		G4 (M156) W/6 : Not used		A/C sub-harness	 M/3	: K/M		(M254) W/6 : To (M60)	ector (M255) W/4 : Intake sensor	(M256) W/3 : Intake door motor			,			/////		/ / / hesaw			(M252) (M	(MZ53)		(M256)		(M255) / (M255)				★: Be sure to connect and lock the connectors securely after repair work.	Failure to do so may cause the on-board diagnostic system to light	n circuit detection.	
: Yaw rate / side G sensor	(For VDC system)	: To (M151)	: Air bag diagnosis sensor unit	: Fuel lid opener relay	Company of the state of the sta	Diowel Illoid	: Front passenger air bag module	≦, ,	$\overline{}$		: To (F102)	: To (B101)	(With navigation system)	: To (D31)	: Low tire pressure warning	control unit	: Tire pressure warning check connector	: Audio unit (With BOSE system)			1		K T	-					(M2E4)	(CZW)			_					★: Be sure to connect an	Failure to do so may	up the MIL as an open circuit detection.	
9/8		W/12	Y/28	4/4	0/84	9/2	Y/4	1	W/10	W/4	SMJ	SMJ	;	SMJ	W/24		W/2	W/12																							
M51		M52	M55	(M59		MOK MOK	M 65	) (MBQ	69W	M70	M72	(M73)		M74	(M77		(M79	(M89																							
F4		F3	G5	Z 2	ם נ	р Ц Ц	ES ES	Z	B2	5	F2 *	F3	i	F2	F2		F3	Ф								system)															
: BCM (Body control module)	: BCM (Body control module)	: BCM (Body control module)	: Fuse block (J/B)	: Fuse block (J/B)		TOO TO SWILCT (WILL VEC SYSTEM)	CS off switch	(with ICS without VDC system)	70 (DI	: 70 (B1)	: Fuel lid opener switch	: Soft top switch (For Roadster models)	: To (£108)	: To (E109)	: Sunload sensor	: Combination meter	: Steering angle sensor (For VDC system)	: Combination switch (Spiral cable)	: Combination switch (Spiral cable)	: Key switch	: NATS antenna amp.	: Combination switch	: Body ground	: Security indicator lamp	: Display unit (With navigation system)	navigation	: NAVI switch (With navigation system)	: Power socket	: Audio unit (With navigation system and	with BOSE system)	: Audio unit	: Audio unit	: In-vehicle sensor	: Triple meter	: Antenna amp. (Via sub-harness)	: Audio unit (With navigation system and	without BOSE system)	: A/T device (For A/T)	: Unified meter and A/C amp.		: Unified meter and A/C amp.
W/16	W/16	BR/24	W/16	W/8	0 //	0/10	9/ <sub>1</sub> /9		SMJ	SMJ	9/ <b>/</b> 5	9/M	SMJ	۲/4	B/2	W/24	8/M	GY/8	9/ <b>X</b>	BR/2	M/8	W/16	ı	BR/2	GY/24	W/8	W/8	B/2	W/16		W/10	9/M	W/2	W12	BR/2	BR/8		W/10	GY/20	GY/16	W/24
M M	M2	(M3)	$\mathcal{L}$	(S)					M11	M12	M13	M14	M15	M16	M18	(M19	(M22)	M23	M24	M25	(M27)	(M29	M30	(M34)	_	(M36)	M37	M38	(M39		(M40	M41	(M42)	(M44	(M45)	M46			M48	M49	M50
A5	A5	A4	A4 :	A4	<u>,</u>	3			A3	A3 ★	B4	25	¥ 40	ဗ္ဗ	E2	22	2	<b>4</b>	Ω	22	D4	D2	72	CS	D2	D2	E3	F2	E4		D4	23	7	5	D3	D4		E4	E4	₩ *	7

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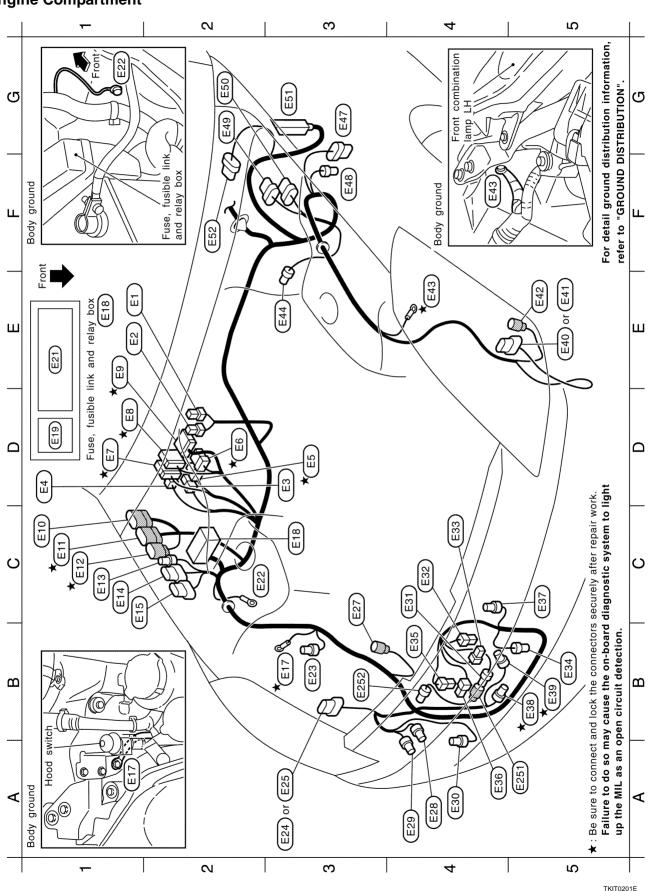
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## **ENGINE ROOM HARNESS Engine Compartment**



A4 (E29) GY/2 : Front washer motor	) E39	C4 (E31) B/3 : To (E251)	C4 (E32) B/1 : Horn (Low)	C4 (E33) B/1 : Horn (Low)	B5 (E34) B/2 : Ambient sensor	B4 (E35) B/1 : Horn (High)	A4 (E36) B/1 : Horn (High)	C5 (E37) Y/2 : Crash zone sensor	B5 ★ E38 GY/4 : Cooling fan motor-1 (Via sub-harness)	B5 ★ E39 GY/4 : Cooling fan motor-2 (Via sub-harness)	E5 (E40) GY/8 : Front combination lamp LH (With xenon headlamp)	E5 (E41) GY/6 : Front combination lamp LH (Without xenon headlamp)	E5 (E42) B/2 : Front wheel sensor LH	E4 ★ E43 — : Body ground	E3 (E44) GY/2 : Brake fluid level switch	G3 (E47) B/8 : VDC relay box (With VDC system)	F3 (E48) B/2 : VDC relay box (With VDC system)	G2 (E49) GY/8 : VDC relay box (With VDC system)	G2 (E50) GY/8 : VDC relay box (With VDC system)	G3 (E51) SMJ : ABS actuator and electric unit (Without VDC system)	F2 (E52) GY/5 : Front wiper motor		Sub-harness	A5 (E251) B/3 : To (E31)	(E252) B/3 : Ref	★: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection.
B/2 : Fusible link holder		B/2 : IPDM E/R (Intelligent power distribution module engine room)	W/4 : IPDM E/R (Intelligent power distribution module engine room)	B/4 : IPDM E/R (Intelligent power distribution module engine room)	W/6 : IPDM E/R (Intelligent power distribution module engine room)	GY/16 : IPDM E/R (Intelligent power distribution module engine room)	W/12 : IPDM E/R (Intelligent power distribution module engine room)	W/16 : IPDM E/R (Intelligent power distribution module engine room)	GY/9 : To F1	GY/10 : To (F2)	GY/8 : To (F3)	GY/4 : Daytime light control unit (For Canada)	GY/6 : Daytime light control unit (For Canada)	GY/8 : Daytime light control unit (For Canada)	- : Body ground	<ul> <li>Fuse,fusible link and relay box</li> </ul>	L/4 : Back-up lamp relay (With A/T)	<ul> <li>Euse and fusible link block</li> </ul>	- : Body ground	GY/2 : Hood switch	GY/8 : Front combination lamp RH (With xenon headlamp)	GY/6 : Front combination lamp RH (Without xenon headlamp)	: Front wheel sensor RH			

TKIT0202E

Revision: 2004 December PG-51 2004 350Z

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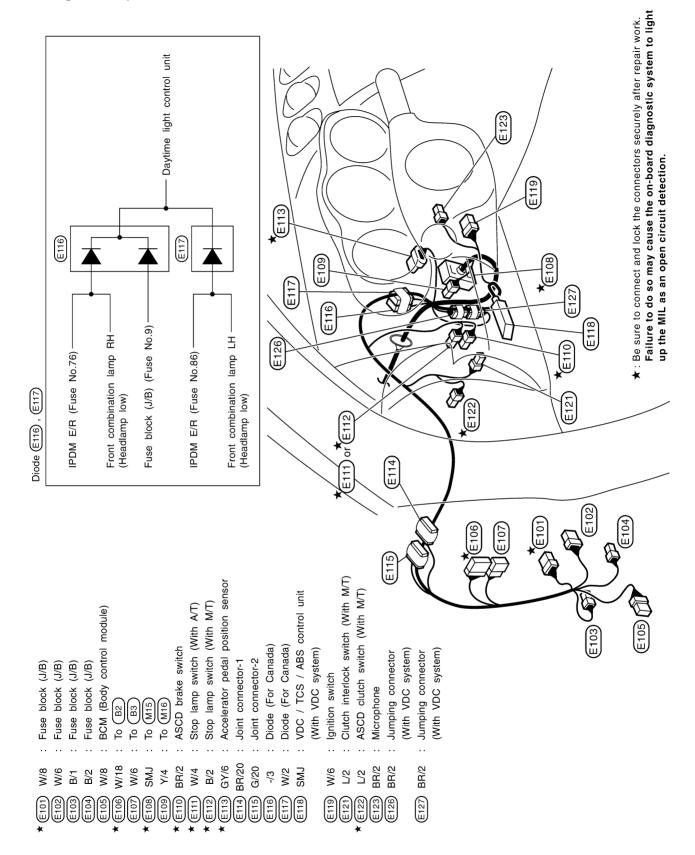
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## **Passenger Compartment**

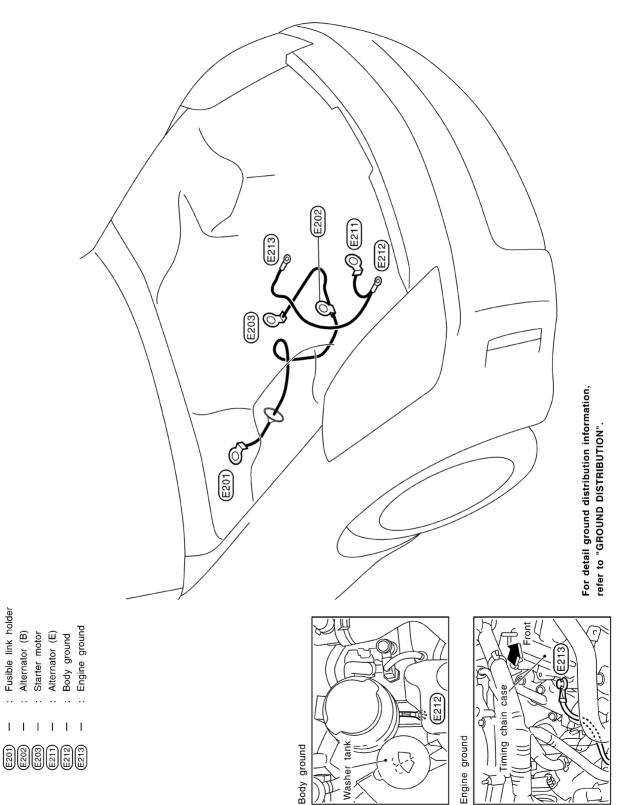


TKIT0203E

## **Battery Cable**

Fusible link holder

Alternator (B)



CKIT0202E

**PG-53** Revision: 2004 December 2004 350Z

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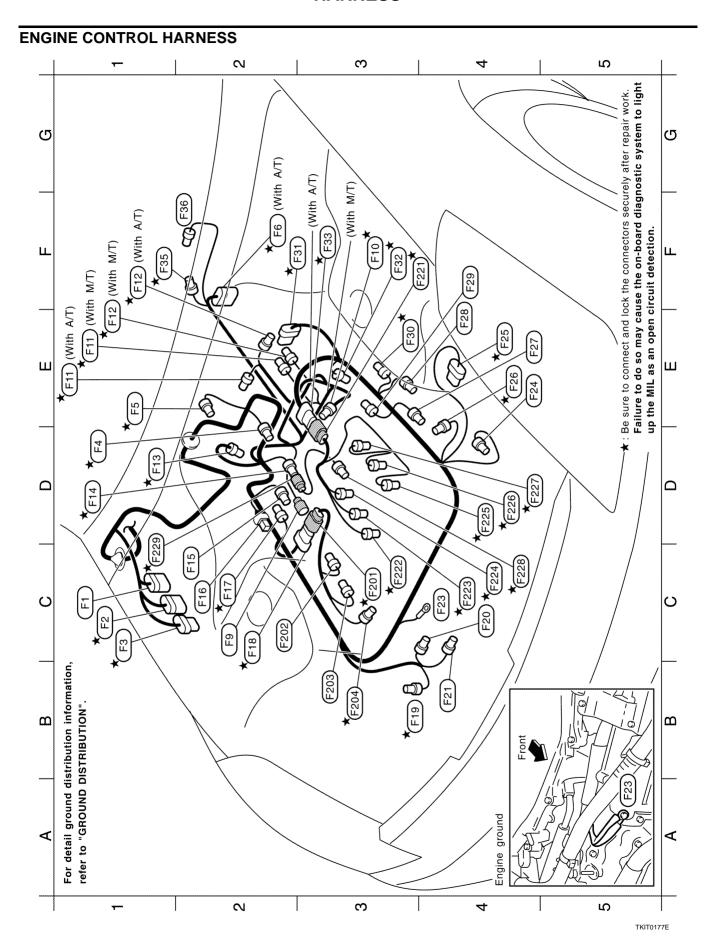
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## Injector No.5 Injector No.2 Injector No.4 GY/2 GY/2 D4 ★(

Injector No.6 Knock sensor GY/2 GY/2 75 (F226) (F227) C1 \* (F229) C4 \* (F228) D4 \* ( D4 ★( EVAP canister purge volume control solenoid valve

Camshaft position sensor (PHASE) (Bank1)

GY/3 GY/2

D1 ★ (F4

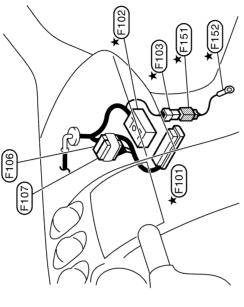
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# PASSENGER COMPARTMENT

To (F14)

SB/2



Ignition coil No.5 (With power transistor)

Heated oxygen sensor 1 (Bank1)

GY/4

F17 F18

C2 ★

To (F201)

B/6 B/3

C5 \* ( B3 ★ (

F19 F20

Condenser

W/2

F16

Power steering pressure sensor

Oil pressure sensor

Engine ground

Compressor

B/1 9/8

F24

F25

Alternator (S, L)

GY/2

B/3

F21 F23

B4

2 E4

Engine coolant temperature sensor

To (F229)

B/2

D1 \* F14

GY/3

F15

8S

Heated oxygen sensor 2 (Bank1) Heated oxygen sensor 2 (Bank2)

> GY/4 GY/2

F12)

E1,F1 \*(

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Crankshaft position sensor (POS)

A/T assembly (With A/T)

GY/10

F6 F9

F2 ★(

£

E1 ★ (

Starter motor

GY/1

3

B/3 B/4

F3 ★

: Joint connector-3 Engine control harness : To M72 : To F151 SMJ SMJ 1/20 W/4 (F101)

Passenger side view with dash side

Body ground

finisher removed

: Joint connector-4 P/20

W/4 F151 F152

: Body ground . To (F103)

Front

(F152)

For detail ground distribution information, refer to "GROUND DISTRIBUTION".

Failure to do so may cause the on-board diagnostic system to light : Be sure to connect and lock the connectors securely after repair work. up the MIL as an open circuit detection.

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## Earth sub-harness F102 F103 F104 F105

Camshaft position sensor (PHASE) (Bank2)

To (F221)

GY/8

F33

B/2

F35

F36

B/3

(F32)

F34)

F2 **★** ( F3 **\*** ( F3 **★**(

F30

E3 ★

F29

E4

F28

Heated oxygen sensor 1 (Bank2)

Electric throttle control actuator

Park/Neutral position switch (With M/T)

Back-up lamp switch (With M/T)

Engine control sub-harness-1

: To (F18)

9/7

(F201)

ဗ

GY/3 GY/3

22

# : Intake valve timing control solenoid valve (Bank1) Engine control sub-harness-2

(F204)

: Ignition coil No.3 (With power transistor) Ignition coil No.1 (With power transistor)

Injector No.1 : To (F33) GY/2 8/5 \* (F221) C3 \* (F222 C4 \* ( F3

: Injector No.3 GY/2 (F223)

TKIT0107E

Intake valve timing control solenoid valve (Bank2)

GY/2 GY/3 GY/3 GY/3 GY/4 GY/6

F26

F27

# ¥ E4 E4 (

Mass air flow sensor

ignition coil No.2 (With power transistor) ignition coil No.4 (With power transistor) gnition coil No.6 (With power transistor)

### **BODY HARNESS Coupe Models** $\alpha$ က 4 2 B45 B44 Front (B15) B18 G G B46 B16) B43 (B17) Floor side RH B19 Body ground ш $\left( \begin{array}{c} g \\ g \end{array} \right)$ ш B38 B40 ★: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection. (B39) (B28) BS 0 B25 B29 B32) Ш ш B34 B7 B30 B31 (B26) (B37 B3 (B13) B36 B33 B14 For detail ground distribution information, B8 B41 refer to "GROUND DISTRIBUTION". (B42) B49 B50 B22) B47 \*(B27) B1 B4 B3 B21 B2 $\circ$ O B24 B10 (B23) B11 Front Floor side LH മ $\mathbf{\omega}$ @ B B5 0 B6 B18) member Front Floor side LH 0) Floor side LH Body ground Body ground Body ground cross ⋖ Front 3rd

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TKIT0204E

E1 (B37) L/4 : Heated seat relay (With heated seat or side air bag) F1 (B38) W/3 : To (D10) E1 (B39) GY/2 : To (D10) F2 (B40) BR/2 : Rear speaker LH D1 (B41) W/2 : Luggage floor box lamp D1 (B42) BR/2 : Rear speaker RH G2 * (B43) W/6 : To (T1) G2 * (B44) W/16 : To (T2) G2 * (B45) W/10 : To (T2) W/10 : To (T2) W/10 : To (T3) (With BOSE system) G2 (B46) BR/2 : To (B49) D2 (B49) BR/2 : To (B49) D2 (B50) BR/2 : To (B49) D2 (B50) BR/2 : To (B49) D4 (B50) BR/2 : To (B49) D5 (B50) BR/2 : To (B49) D6 (B60) BR/2 : To (B49) D7 (B60) BR/2 : To (B49) D8 (B60) BR/2 : To (B49) D9 (B60) BR/2 : To (B60) D	
10 (M12) 10 (E109) 110 (E109) 110 (E109) 110 (E109) 110 (E103) 110 (E103) 1110 (E103) 1111 (E104) 1111	: Power socket
C4 * * * * * * * * * * * * * * * * * * *	D1 (B36) B/2

TKIT0205E

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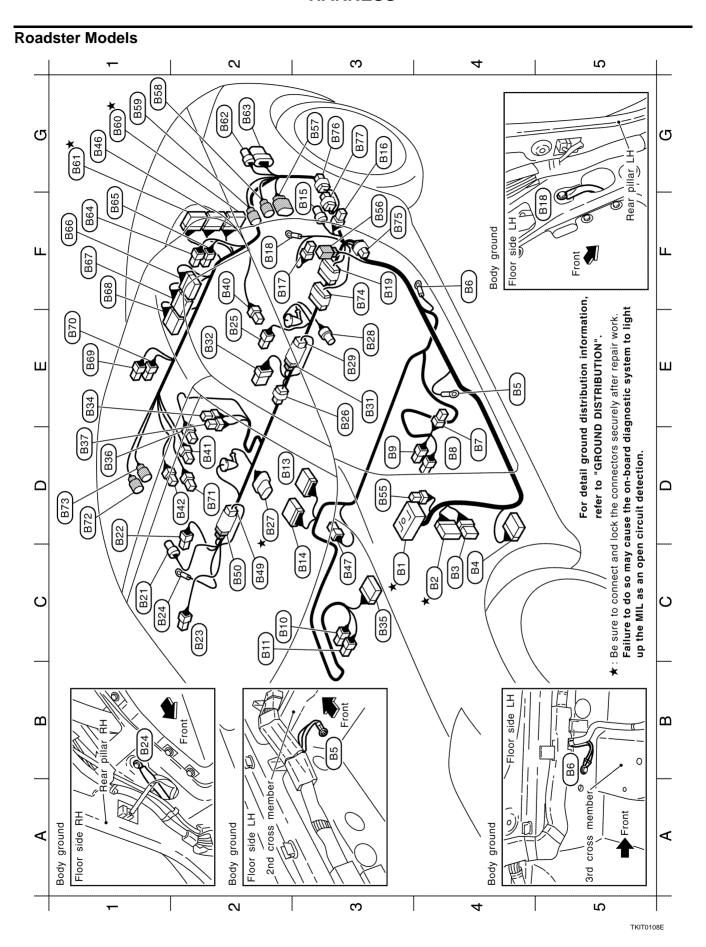
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Revision: 2004 December **PG-57** 2004 350Z



B3         66.5         W/2         : Circuit breaker           F3         65.6         W/2         : Short connector           G3         65.7         GY/8         : Soft top assembly           G1         65.8         B/2         : Soft top assembly           G1         65.8         B/2         : Soft top actuator LH           G1 ★ 66.1         W/16         : To (T22)           G2         68.2         GY/4         : To (T22)           G2         68.3         B/6         : To (T24)           G4         68.3         B/6         : To (T25)           G2         68.3         B/6         : To (T24)           G4         68.3         B/6         : To (T25)           G5         68.3         B/6         : To (T25)           G4         68.3         B/6         : To (T25)           G5         68.2         GY/4         : Storage lid switch LH (Close)           F1         68.6         W/12         : Storage lid switch B/6	up the MIL as an open circuit detection.
	W/2 : Truel level sensor unit (aub) W/2 : To (B31) W/2 : To (B29) BR/8 : Woofer amp. (With BOSE system) BR/6 : Rear window defogger relay W/18 : Passenger side seat B/2 : Power socket L/4 : Heated seat relay (With heated seat or side air bag) BR/2 : Rear speaker LH W/2 : Luggage floor box lamp BR/2 : Rear speaker RH BR/20 : To (T4) (With BOSE system) B/1 : Parking brake switch BR/2 : To (B50) BR/2 : To (B49)
* * *	

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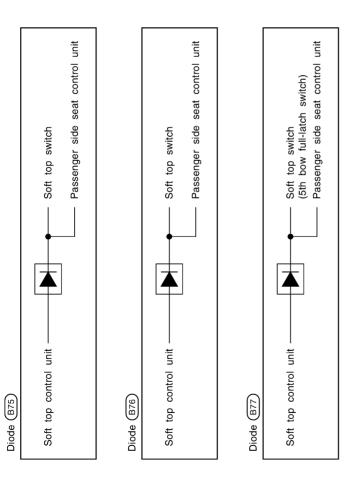
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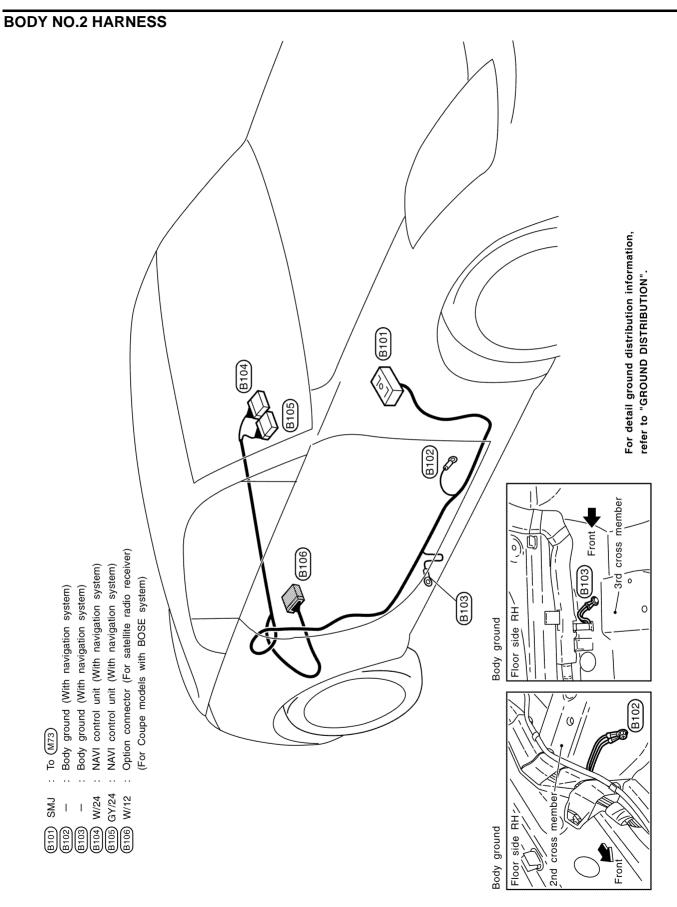
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TKIT0117E



TKIT0207E

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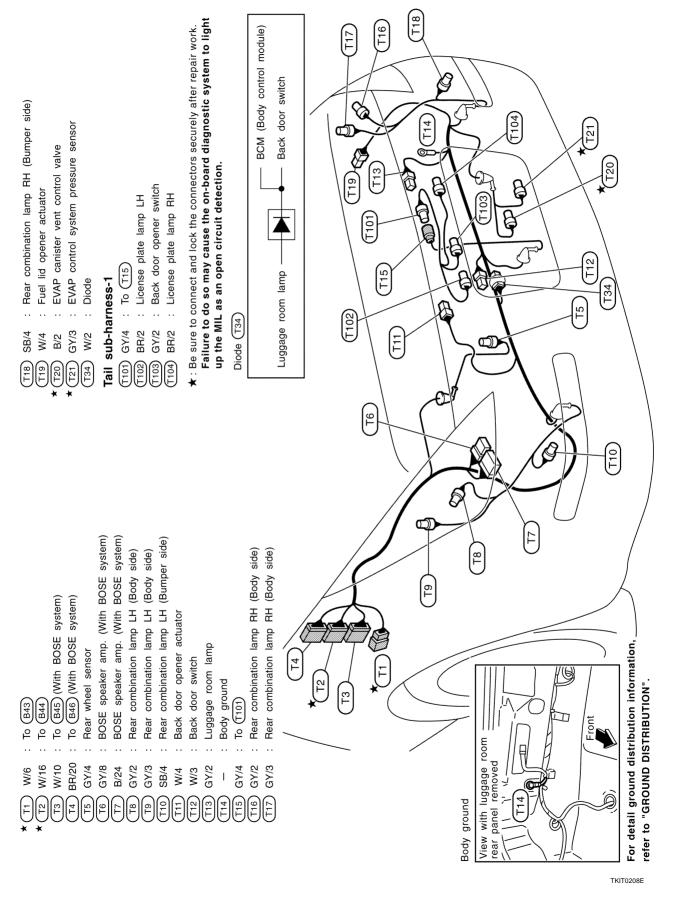
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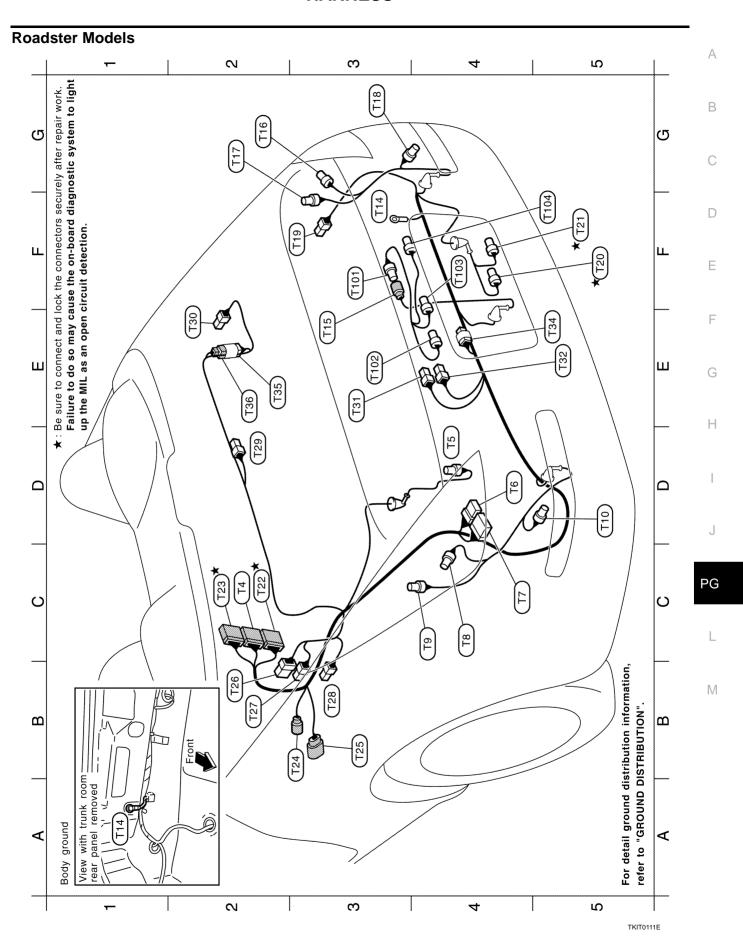
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## TAIL HARNESS Coupe Models





## Tail sub-harness-1

: To (T15) GY/4 BR/2 T101) T102)

BCM (Body control module) Trunk lid opener switch : License plate lamp RH License plate lamp LH GY/2 BR/2 Diode (T34) T103 F3 E3 F4 F5

Failure to do so may cause the on-board diagnostic system to light ★: Be sure to connect and lock the connectors securely after repair work. up the MIL as an open circuit detection.

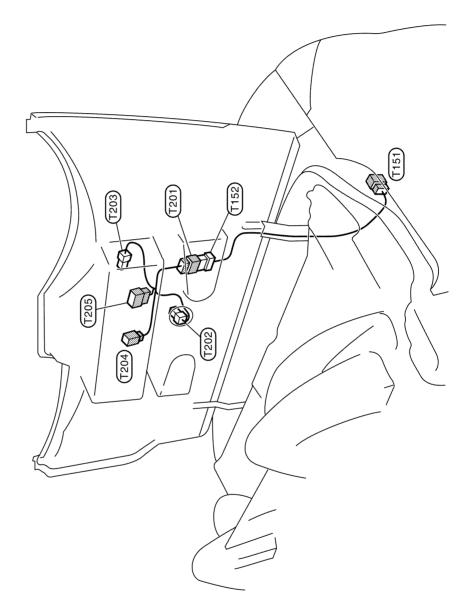
Trunk room lamp switch

Trunk room lamp

BOSE speaker amp. (With BOSE system) Rear combination lamp RH (Bumper side) BOSE speaker amp. (With BOSE system) Rear combination lamp LH (Bumper side) Rear combination lamp LH (Body side) Rear combination lamp LH (Body side) Rear combination lamp RH (Body side) Rear combination lamp RH (Body side) EVAP control system pressure sensor EVAP canister vent control valve To (B46) (With BOSE system) (B62) (With BOSE system) (B63) (With BOSE system) Storage lid switch (Open) Trunk lid opener actuator Fuel lid opener actuator Storage lid actuator RH Trunk room lamp switch Storage lid actuator LH Rear wheel sensor Trunk room lamp Body ground To (T35) To (T101) To (B60) (B61) To (T151) Diode ို ၉ ပ BR/20 GY/8 GY/2 GY/3 GY/2 GY/3 GY/3 W/16 B/24 SB/4 GY/4 SB/4 W/4 W/20 GY/4 B/6 W/8 B/2 W/2 W/2 W/2 W/2 B/2 B/2 W/2 W/2 W/2 T10 T14 )(6 L1 T20 T15 T16) T18 T21 (T22) (T23 T24 T25 T26 T27 T28 T29 T34 T36) T32 ω\_ T30 T31 

TKIT0112E

## **TAIL NO.2 HARNESS Roadster Models**



5th bow unlock actuator 5th bow closure motor Soft top lock switch : High-mounted stop lamp : To (T152) W/8 BR/2 W/4 B/2 W/6 T204 T205

Tail No.2 harness

: To (T26) 
 Tail sub-harness-2

 (T151) W/8 : To (T26)

 (T152) W/8 : To (T201)

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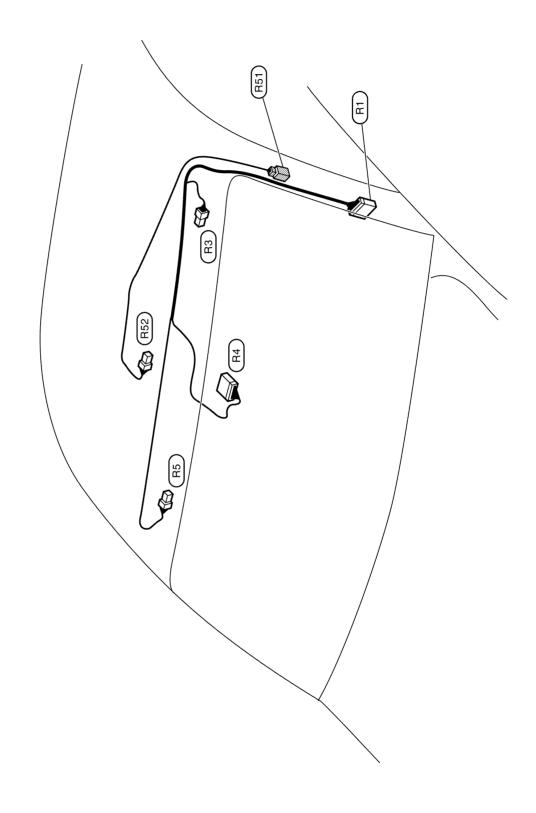
## **ROOM LAMP HARNESS Coupe Models**

Room lamp sub-harness

 (R51)
 W/4
 : To (M70)

 (R52)
 W/3
 : Map lamp

: Vanity mirror lamp LH
: Auto anti-dazzling inside mirror
: Vanity mirror lamp RH W/10 W/2 B/10



TKIT0209E

R51

(E)

84 44

R53

(E)

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## **Roadster Models**

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TKIT0210E

Room lamp sub-harness

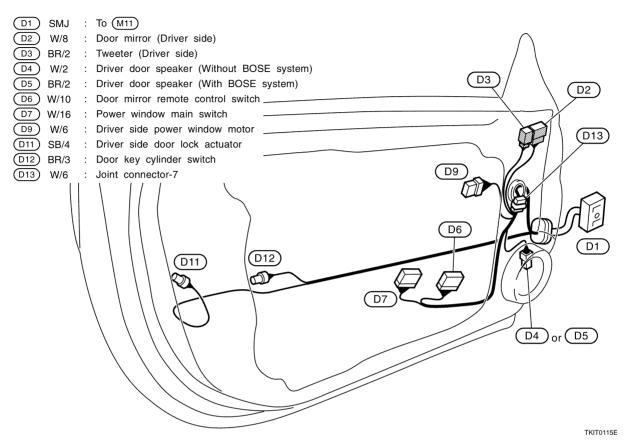
 (R51)
 W/4
 : To (M70)

 (R53)
 W/4
 : Map lamp

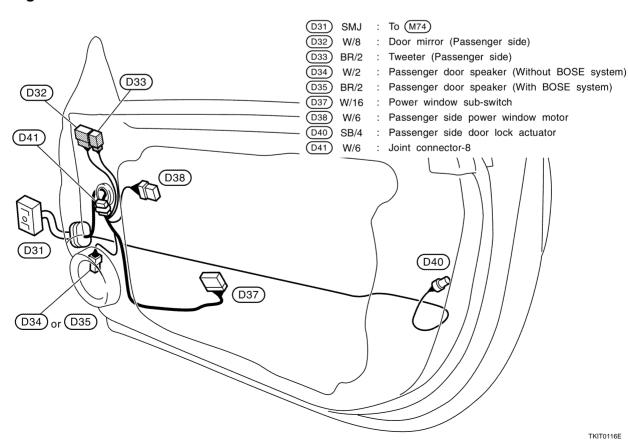
: Auto anti-dazzling inside mirror : Vanity mirror lamp RH : Vanity mirror lamp LH

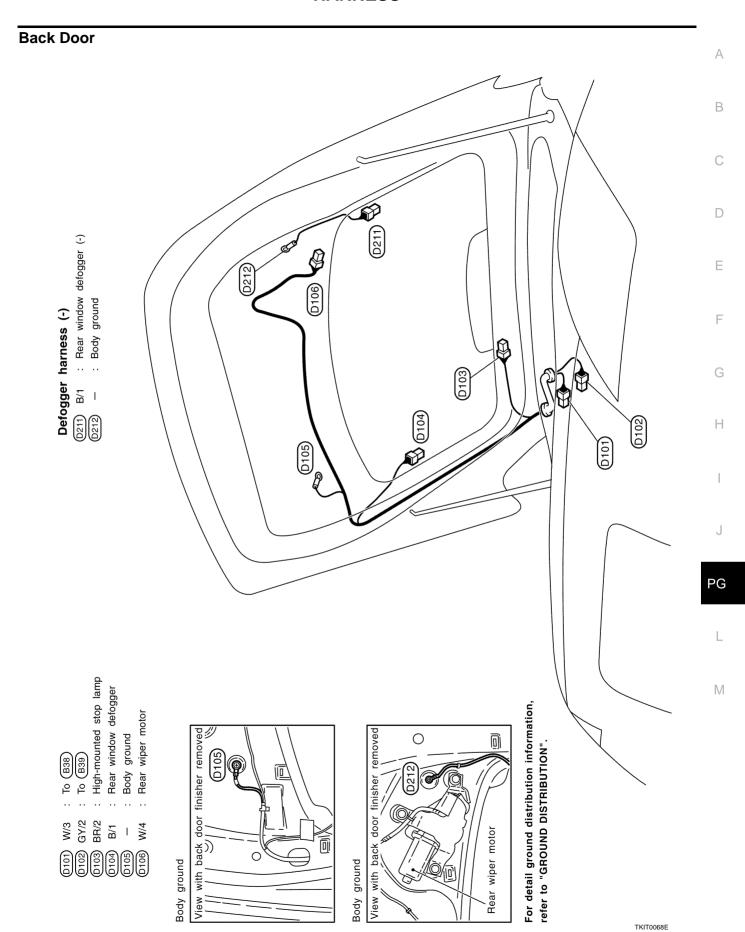
W/10 W/2 B/10 W/2 RS R3 R3

## DOOR HARNESS Driver Side Door



## **Passenger Side Door**





## **Wiring Diagram Codes (Cell Codes)**

AKS00A3P

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
3METER	DI	Triple Meter
ABS	BRC	Anti-lock Brake System
A/C	ATC	Air Conditioner
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASCBOF	EC	Automatic Speed Control Device (ASCD) Brake Switch
ASC/BS	EC	Automatic Speed Control Device (ASCD) Brake Switch
ASCIND	EC	Automatic Speed Control Device (ASCD) Indicator
ASC/SW	EC	Automatic Speed Control Device (ASCD) Steering Switch
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
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
CLOCK	DI	Clock
COMBSW	LT	Combination Switch
COOL/F	EC	Cooling Fan Control
DEF	GW	Rear Window Defogger
D/LOCK	BL	Power Door Lock
DTRL	LT	Headlamp - With Daytime Light System
ECM/PW	EC	ECM Power Supply For Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
ETC1	EC	Electrical Throttle Function
ETC2	EC	Electrical Throttle Control Motor Relay
ETC3	EC	Electrical Throttle Control Motor
F/LID	BL	Fuel Lid Opener
F/PUMP	EC	Fuel Pump
F/ROOF	RF	Soft Top
FTS	AT	A/T Fluid Temperature Sensor Circuir
FTTS	EC	Fuel Tank Temperature Sensor
FUELB1	EC	Fuel Injection System Function (Bank 1)
FUELB2	EC	Fuel Injection System Function (Bank 1)  Fuel Injection System Function (Bank 2)
H/LAMP	LT	Headlamp
HORN	WW	Horn
HSEAT	SE	Heated Seat
IATS	EC	Intake Air Temperature Sensor

Code	Section	Wiring Diagram Name
IGNSYS	EC	Ignition System
ILL	LT	Illumination
I/MIRR	GW	Inside Mirror (Auto Anti-Dazzling Mirror)
INJECT	EC	Injector
INT/L	LT	Trunk Room Lamp
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2
KEYLES	BL	Remote Keyless Entry System
KS	EC	Knock Sensor
MAFS	EC	Mass Air Flow Sensor
MAIN	EC	Main Power Supply and Ground Circuit
M/ANT	AV	Manual Antenna
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
O2H1B1	EC	Heated Oxygen Sensor 1 Heater Bank 1
O2H1B2	EC	Heated Oxygen Sensor 1 Heater Bank 2
O2H2B1	EC	Rear Heated Oxygen Sensor 2 Heater Bank 1
O2H2B2	EC	Rear Heated Oxygen Sensor 2 Heater Bank 2
O2S1B1	EC	Heated Oxygen Sensor 1 Bank 1
O2S1B2	EC	Heated Oxygen Sensor 1 Bank 2
O2S2B1	EC	Rear Heated Oxygen Sensor 2 Bank 1
O2S2B2	EC	Rear Heated Oxygen Sensor 2 Bank 2
PGC/V	EC	Evap Canister Purge Volume Control Solenoid Valve
PHSB1	EC	Camshaft Position Sensor (Phase) (Bank 1)
PHSB2	EC	Camshaft Position Sensor (Phase) (Bank 2)
PNP/SW	AT	Park / Neutral Position Switch
PNP/SW	EC	Park / Neutral Position Switch
POS	EC	Crankshaft Position Sensor (Ckps) (Pos)
POWER	AT	Transmission Control Module Power Supply
POWER	PG	Power Supply Routing
PRE/SE	EC	Evap Control System Pressure Sensor
P/SCKT	WW	Power Socket
PS/SEN	EC	Power Steering Pressure Sensor
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
SRS	SRS	Supplemental Restraint System

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Code	Section	Wiring Diagram Name
START	SC	Starting System
STOP/L	LT	Stop Lamp
STSIG	AT	Start Signal Circuit
TAIL/L	LT	Parking, License and Tail Lamps
TCS	BRC	Traction Control System
TLID	BL	Trunk Lid Opener
TPS1	EC	Throttle Position Sensor (Sensor 1)
TPS2	EC	Throttle Position Sensor (Sensor 2)
TPS3	EC	Throttle Position Sensor
TRANSCV	BL	Homelink Universal Transceiver
TURN	LT	Turn Signal and Hazard Warning Lamp
T/WARN	WT	Low Tire Pressure Warning System
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)
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer
WIP/R	WW	Rear Wiper and Washer

# **ELECTRICAL UNITS LOCATION**

PFP:25230

**Electrical Units Location ENGINE COMPARTMENT** 

AKS0012S

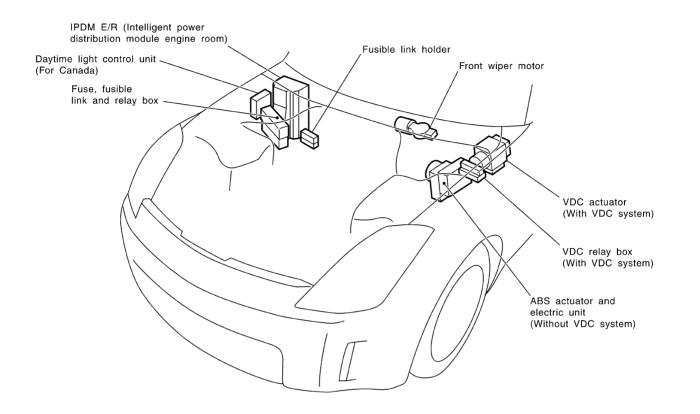
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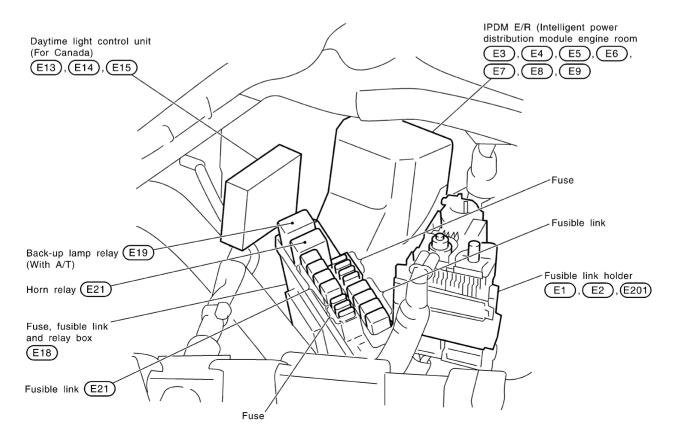
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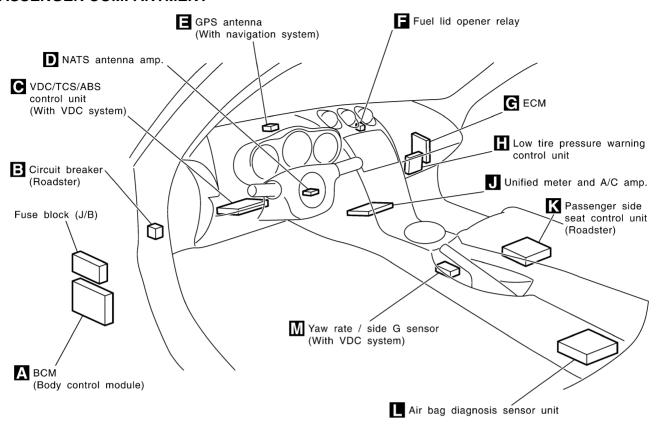


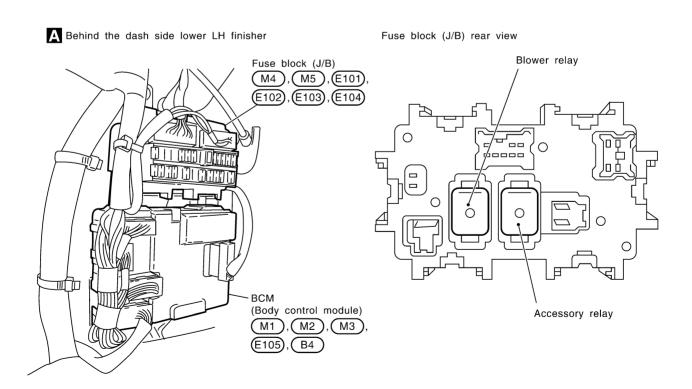
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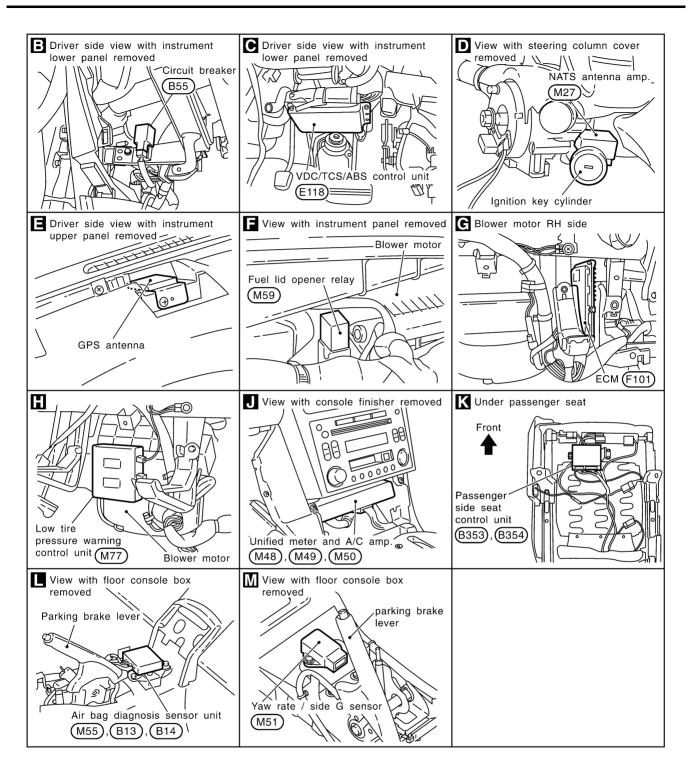
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#### PASSENGER COMPARTMENT





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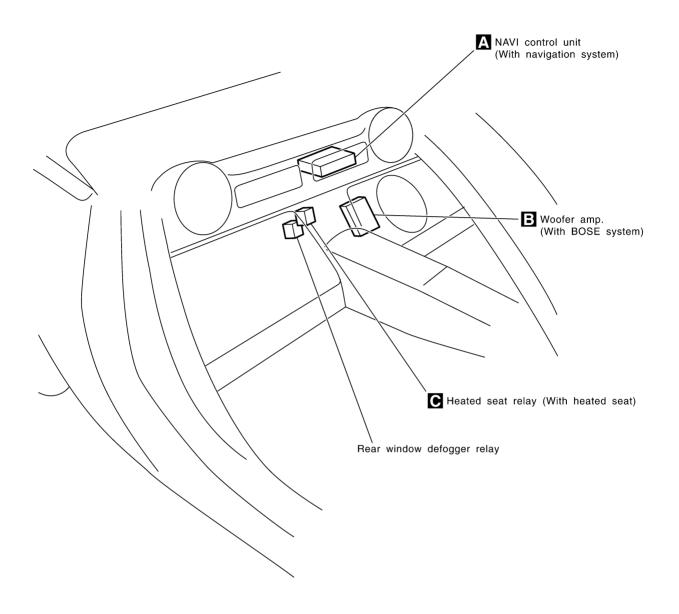


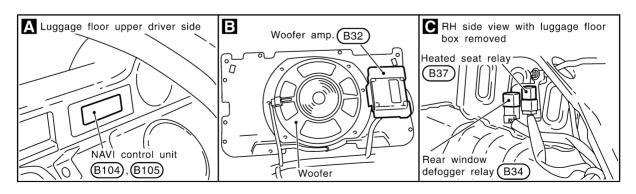
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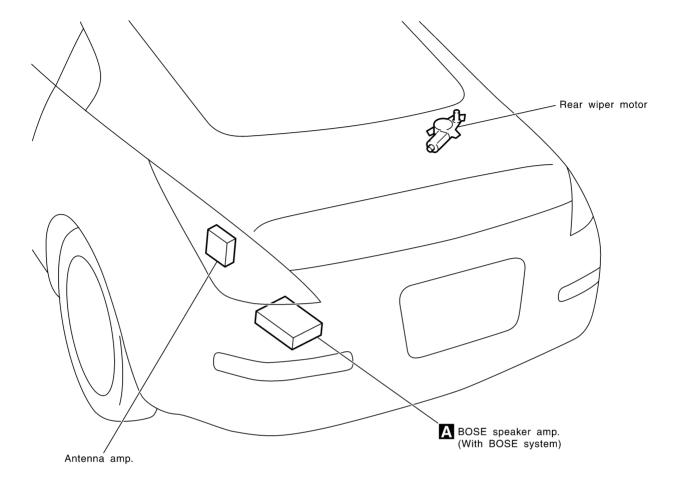
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CKIT0349E

# LUGGAGE COMPARTMENT Coupe Models



# Antenna amp. BOSE speaker amp. (With BOSE system) T6, T7

CKIT0216E

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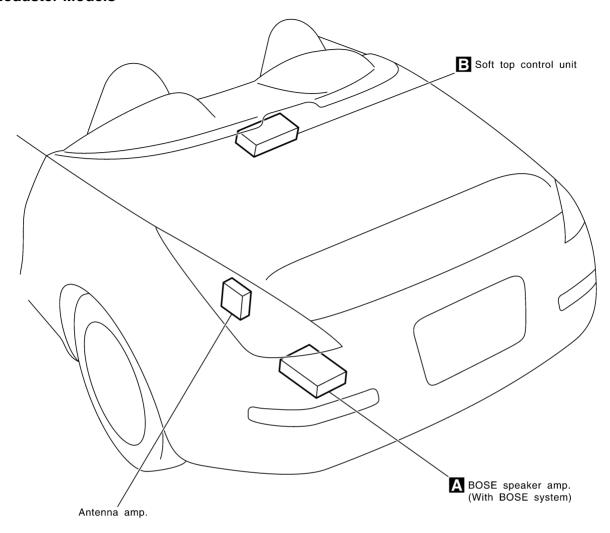
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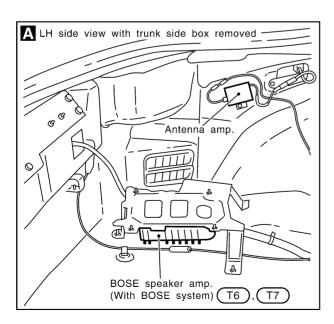
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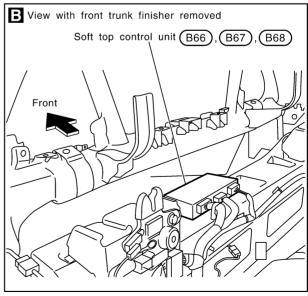
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#### **Roadster Models**







CKIT0350E

#### HARNESS CONNECTOR

#### HARNESS CONNECTOR

PFP:00011

# **Description**

AKS0012T

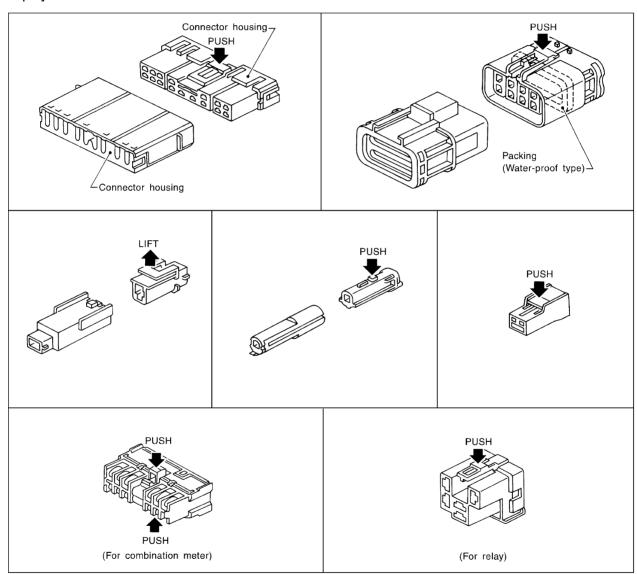
# HARNESS CONNECTOR (TAB-LOCKING TYPE)

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

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

Do not pull the harness or wires when disconnecting the connector.

#### [Example]



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**PG-79** Revision: 2004 December 2004 350Z В

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#### HARNESS CONNECTOR

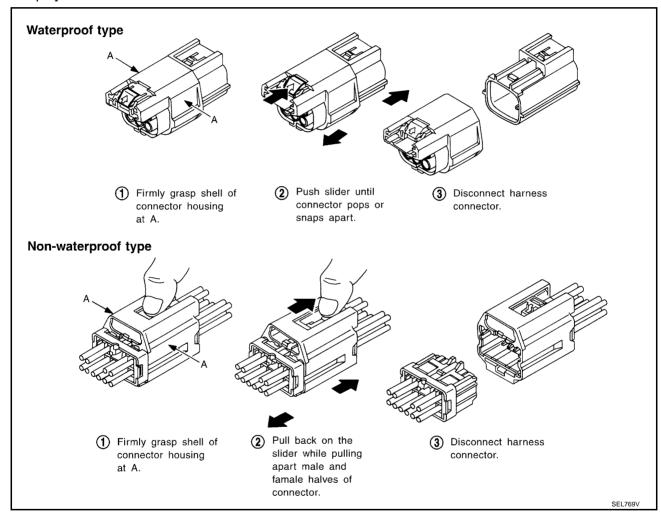
#### HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

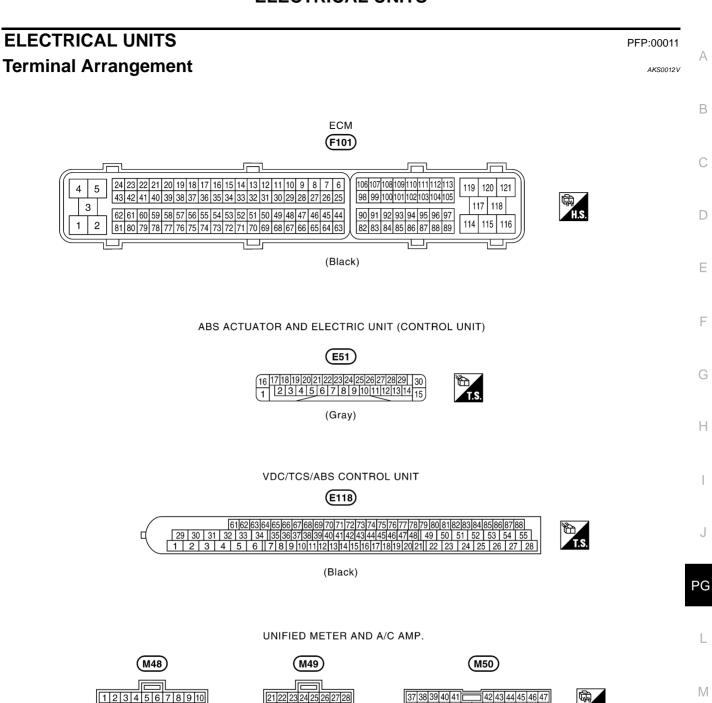
#### **CAUTION:**

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

#### [Example]



#### **ELECTRICAL UNITS**





CKIT0294E

# **ELECTRICAL UNITS**

BCM (BODY CONTROL MODULE)

(White)

(White)

CKIT0156E

# SMJ (SUPER MULTIPLE JUNCTION)

# SMJ (SUPER MULTIPLE JUNCTION) Terminal Arrangement

PFP:B4341

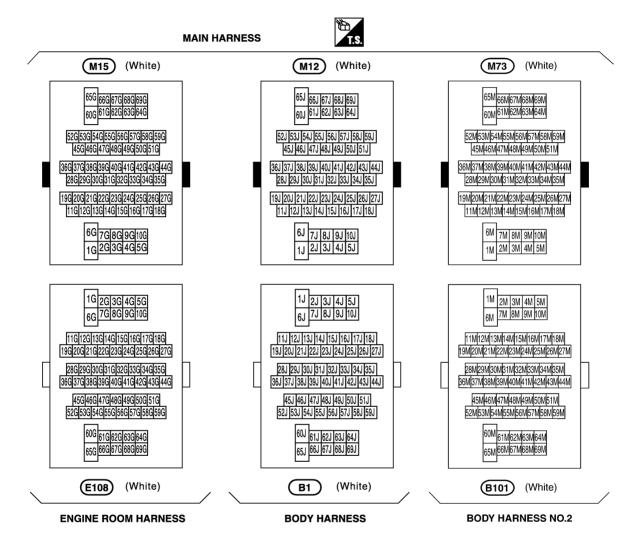
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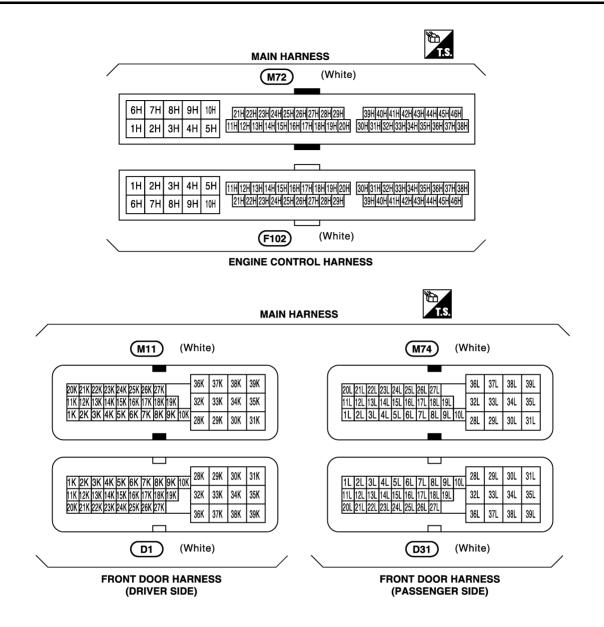
CKIT0184E

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# SMJ (SUPER MULTIPLE JUNCTION)



CKIT0158E

#### STANDARDIZED RELAY

# STANDARDIZED RELAY

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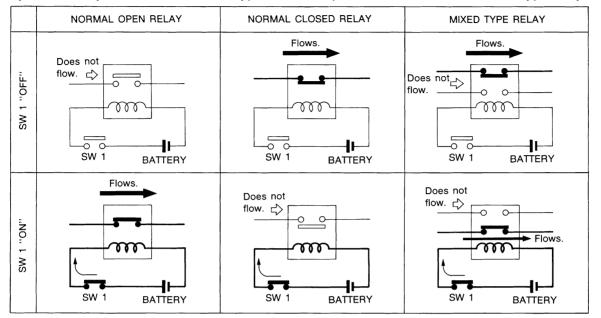
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# Description

# NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

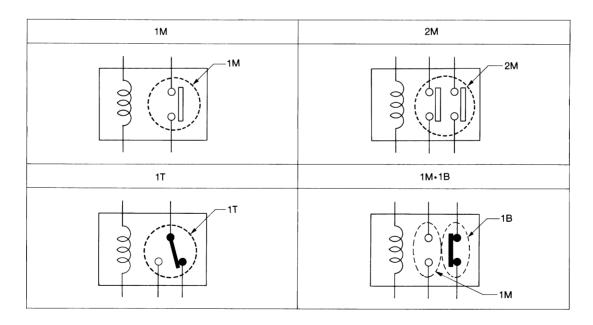
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

#### TYPE OF STANDARDIZED RELAYS

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

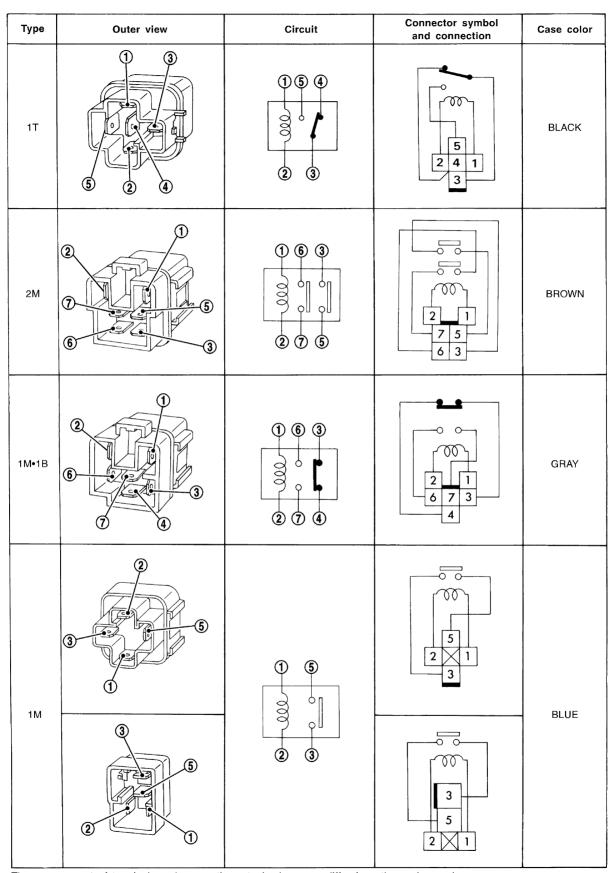


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## STANDARDIZED RELAY



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

SEL188W

# **FUSE BLOCK - JUNCTION BOX (J/B)**

#### PFP:24350

**Terminal Arrangement** 

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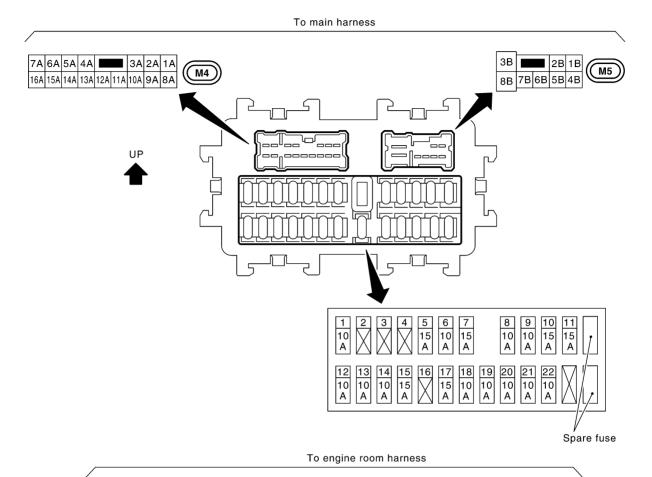
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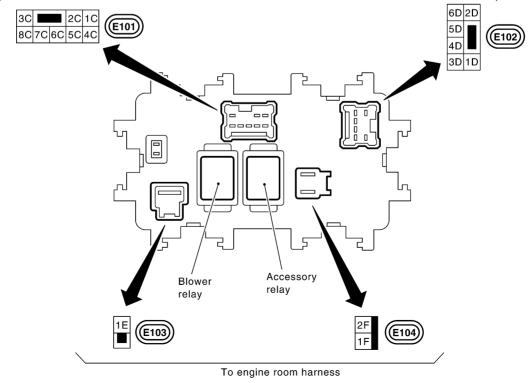


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CKIT0363E

# **FUSE, FUSIBLE LINK AND RELAY BOX**

# **FUSE, FUSIBLE LINK AND RELAY BOX**

PFP:24382

**Terminal Arrangement** 

AKS0012Z

