

SECTION **PG**

**POWER SUPPLY, GROUND & CIRCUIT ELEMENTS**

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# PRECAUTIONS

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## PRECAUTIONS

PPF:00001

### Precautions for Battery Service

AKS003RD

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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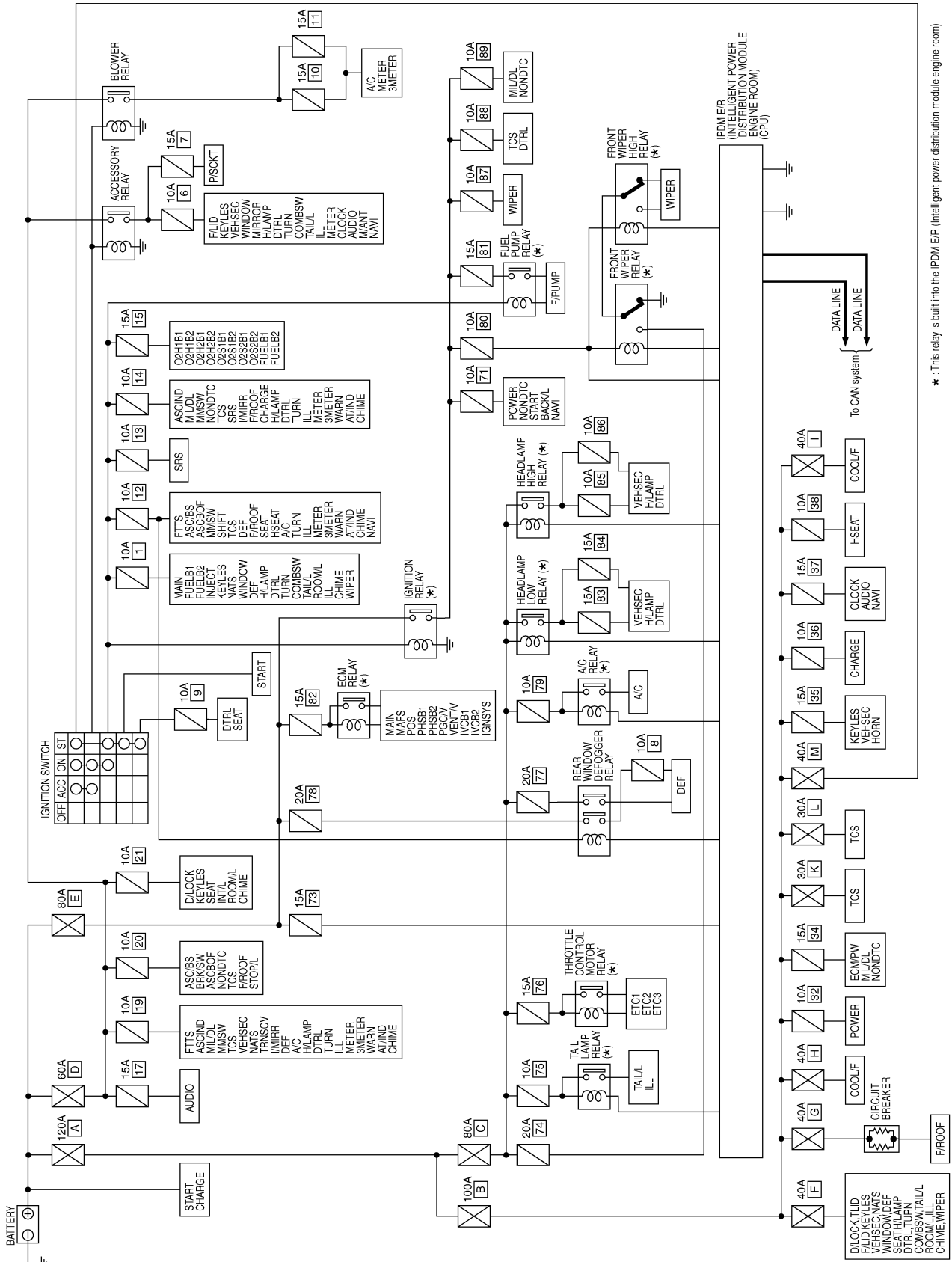
# POWER SUPPLY ROUTING CIRCUIT

## POWER SUPPLY ROUTING CIRCUIT

PFP:24110

### Schematic

AKS0012B

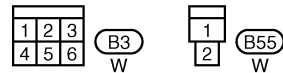
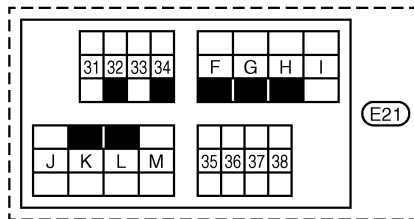
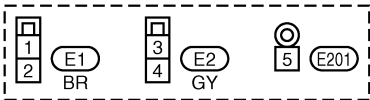
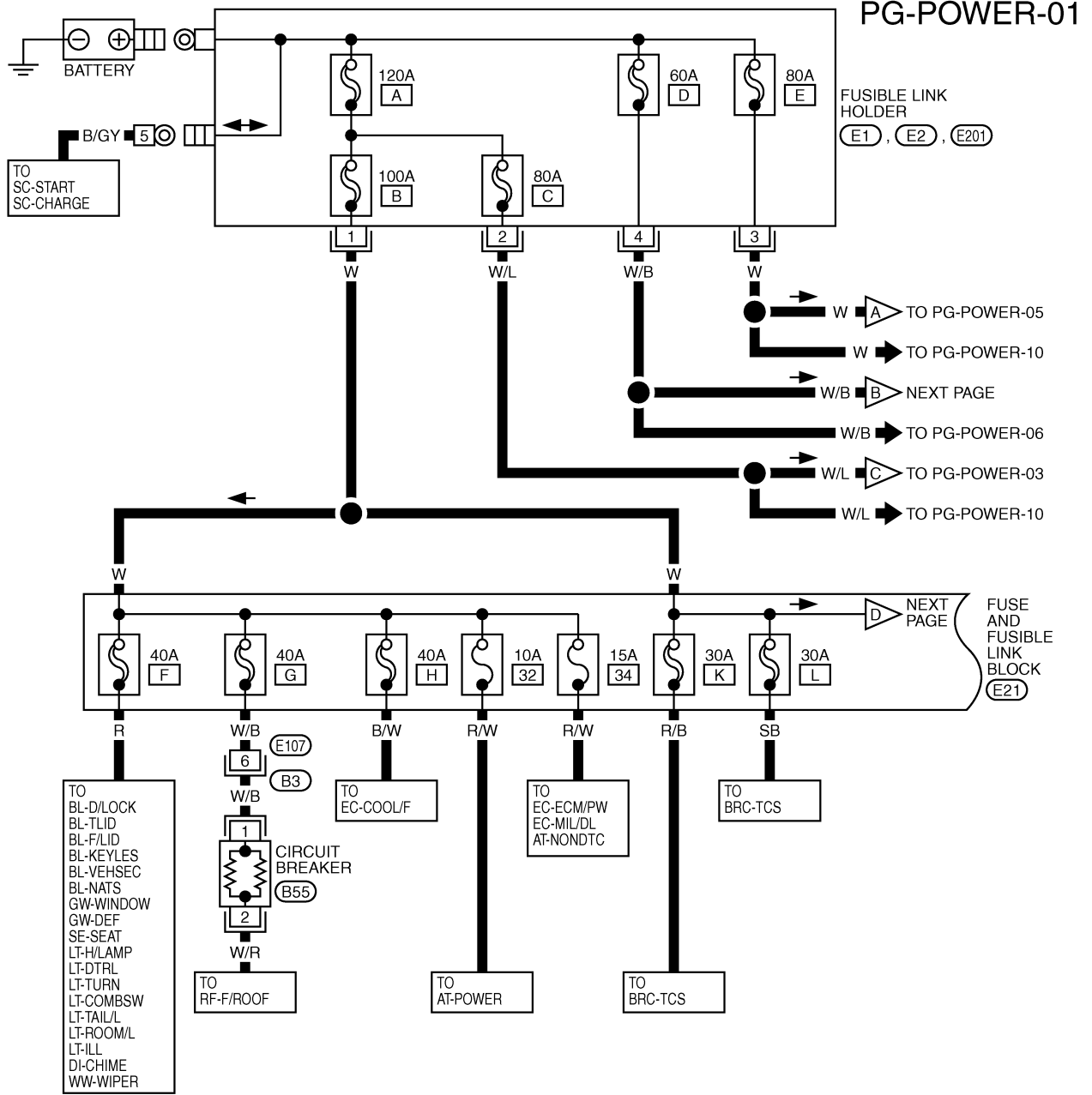


\* : This relay is built into the IPDM E/R (Intelligent power distribution module engine room).

# POWER SUPPLY ROUTING CIRCUIT

## Wiring Diagram — POWER — BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION

AKS0012C

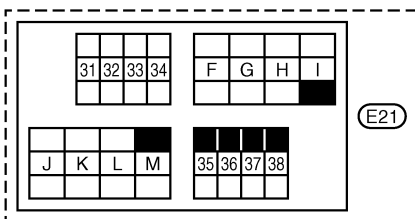
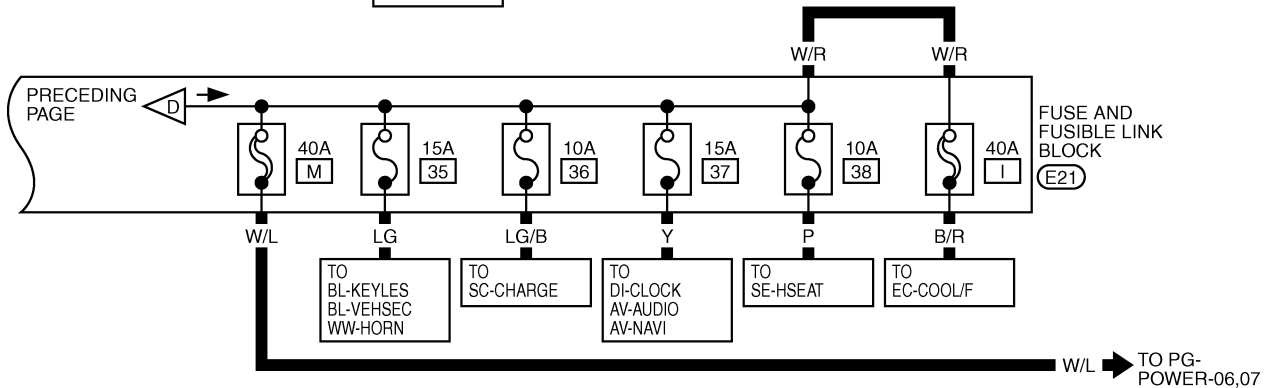
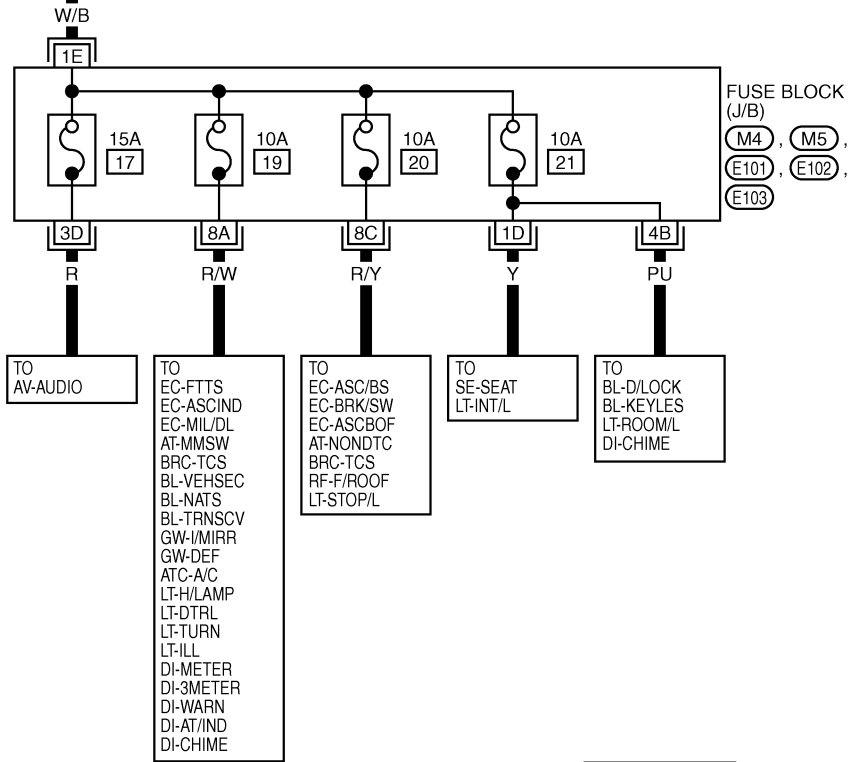


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# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-02

PRECEDING PAGE B W/B



REFER TO THE FOLLOWING.

(M4), (M5), (E101), (E102),  
 (E103) - FUSE BLOCK-JUNCTION  
 BOX (J/B)

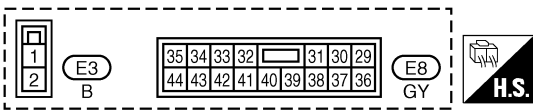
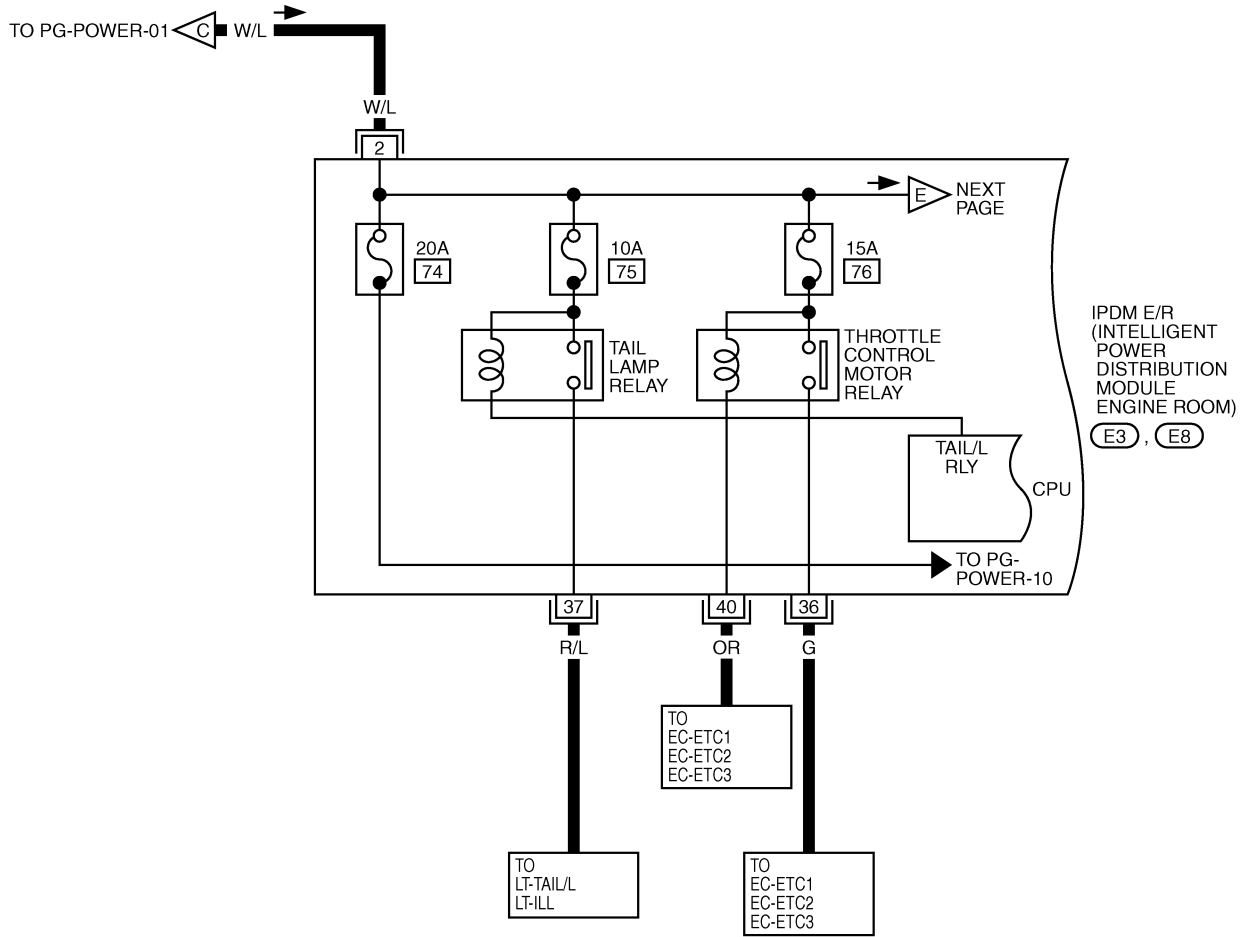
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

TKWM1392E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-03

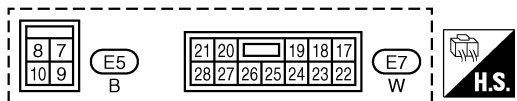
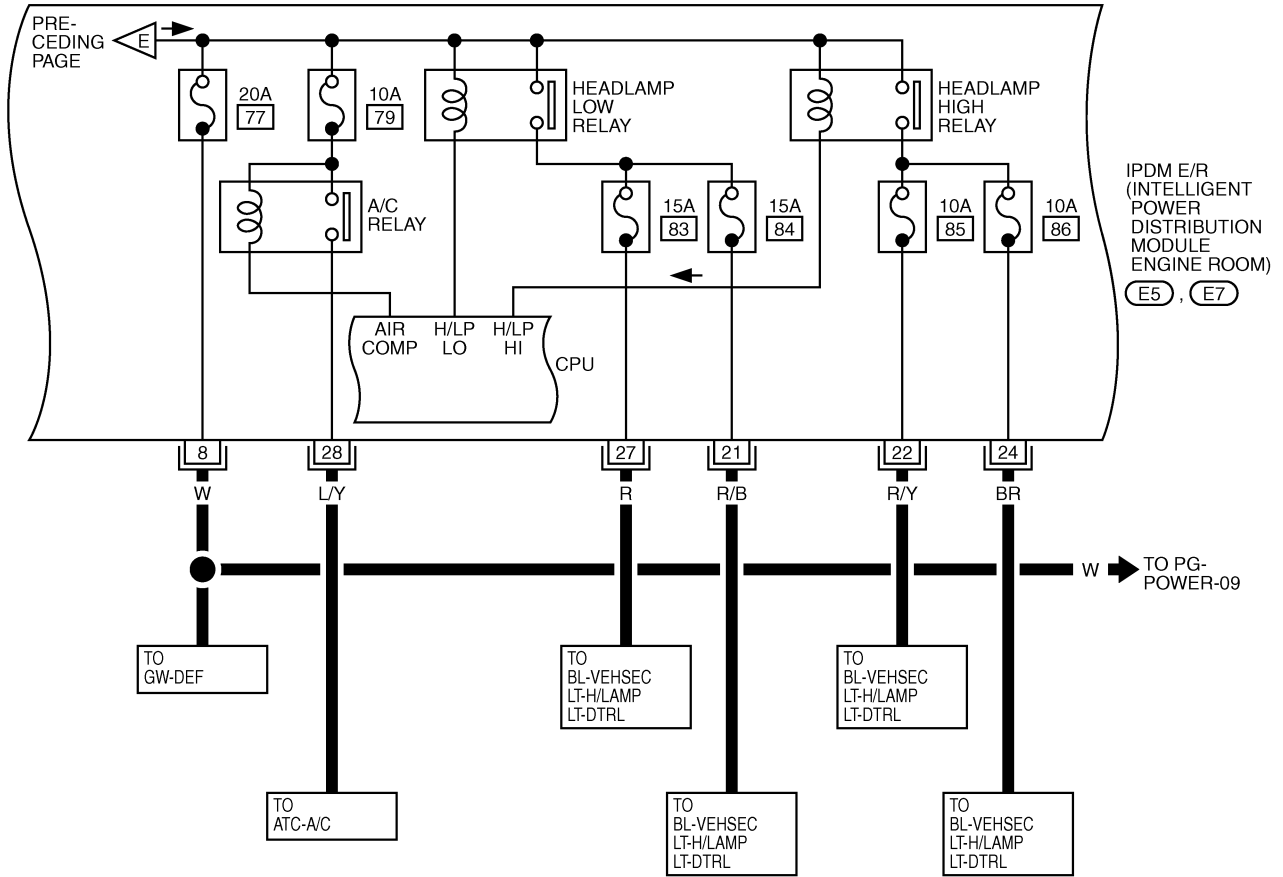
A  
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TKWT0526E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-04

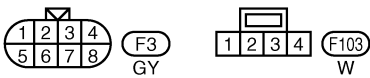
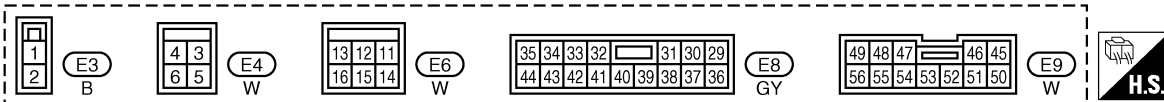
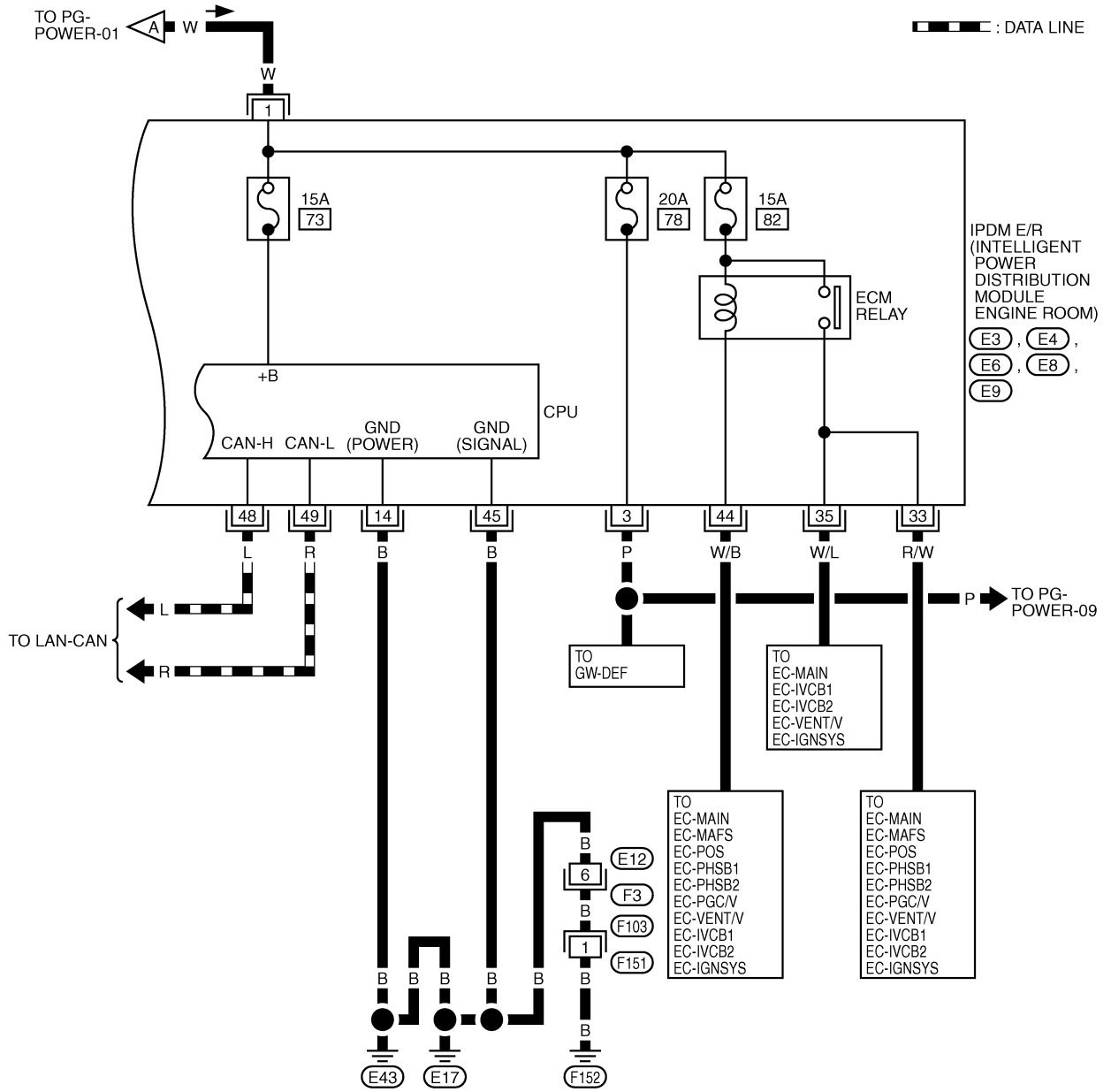


TKWT0527E



# POWER SUPPLY ROUTING CIRCUIT

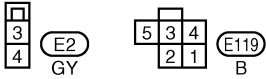
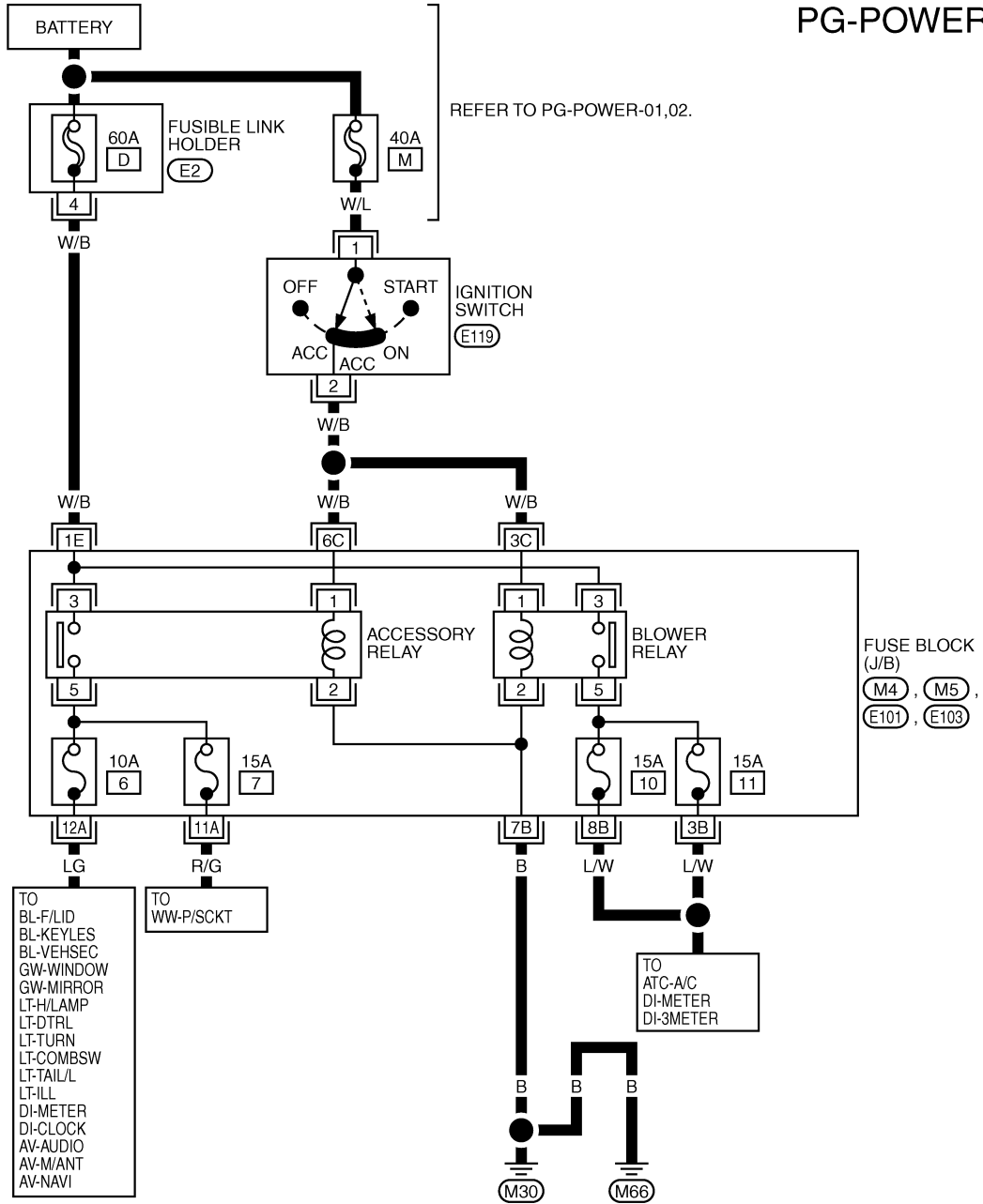
PG-POWER-05



# POWER SUPPLY ROUTING CIRCUIT

## ACCESSORY POWER SUPPLY — IGNITION SW. IN “ACC” OR “ON”

PG-POWER-06



REFER TO THE FOLLOWING.

(M4), (M5), (E101), (E103)  
 - FUSE BLOCK-JUNCTION BOX (J/B)

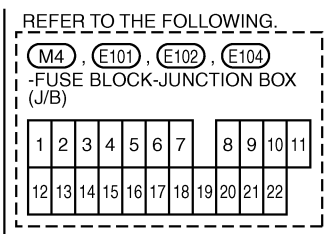
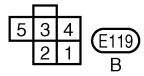
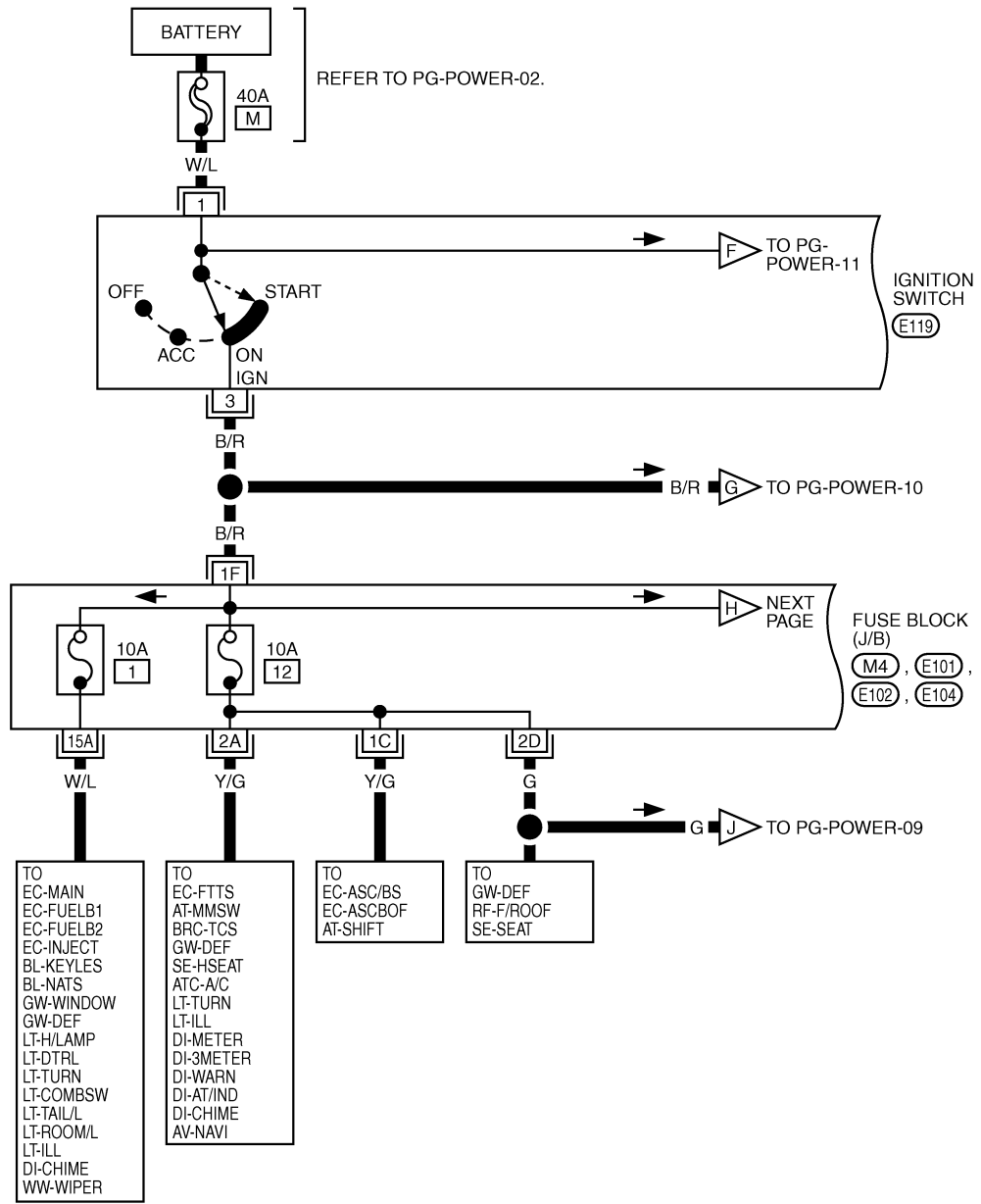
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

TKWT1122E

# POWER SUPPLY ROUTING CIRCUIT

## IGNITION POWER SUPPLY — IGNITION SW. IN “ON” AND/OR “START”

PG-POWER-07

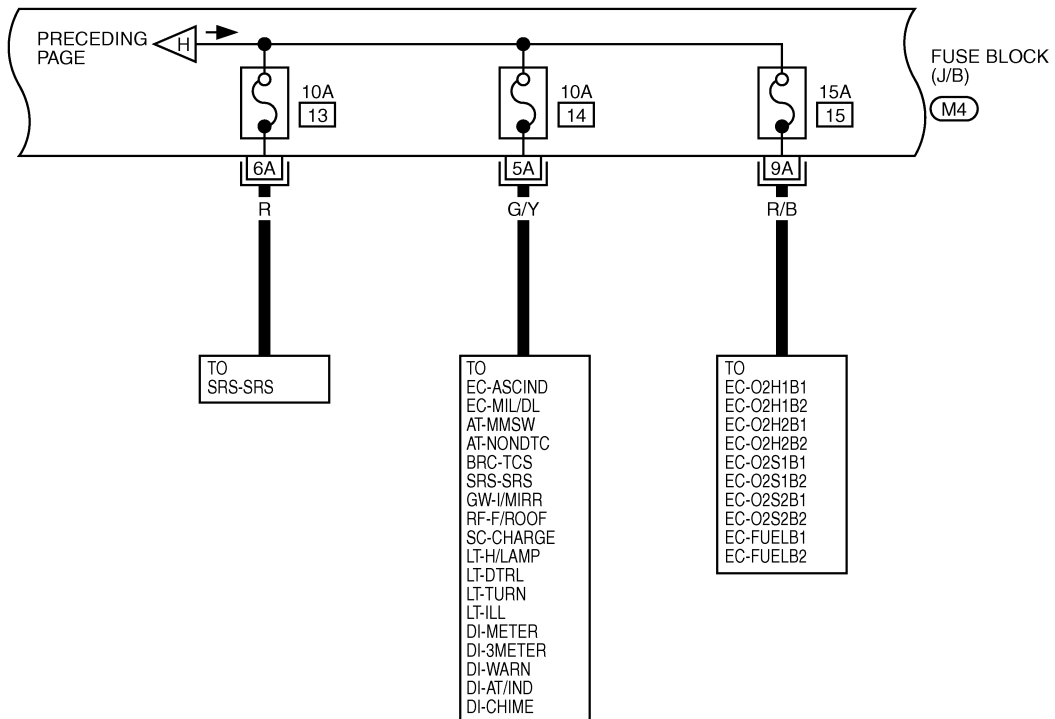


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# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-08



REFER TO THE FOLLOWING.

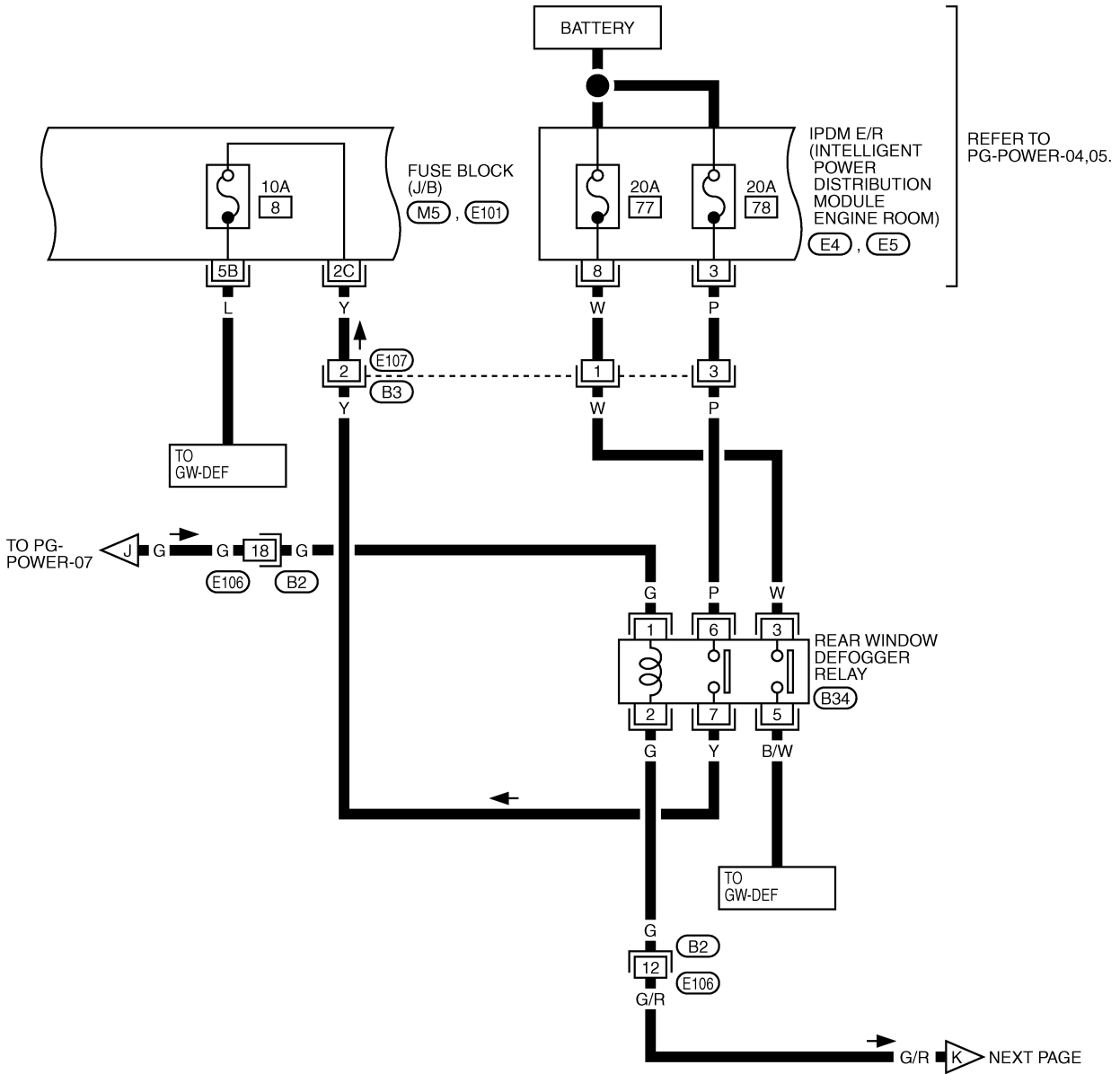
(M4) - FUSE BLOCK-  
JUNCTION BOX (J/B)

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

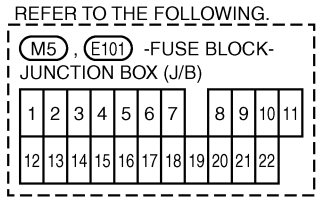
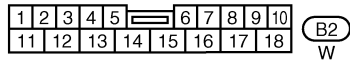
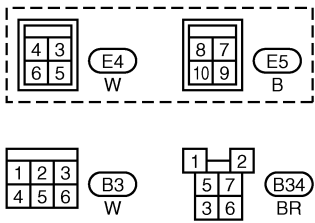
TKWM1394E

# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-09



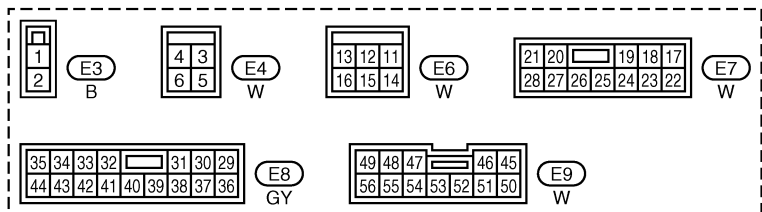
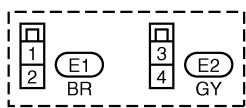
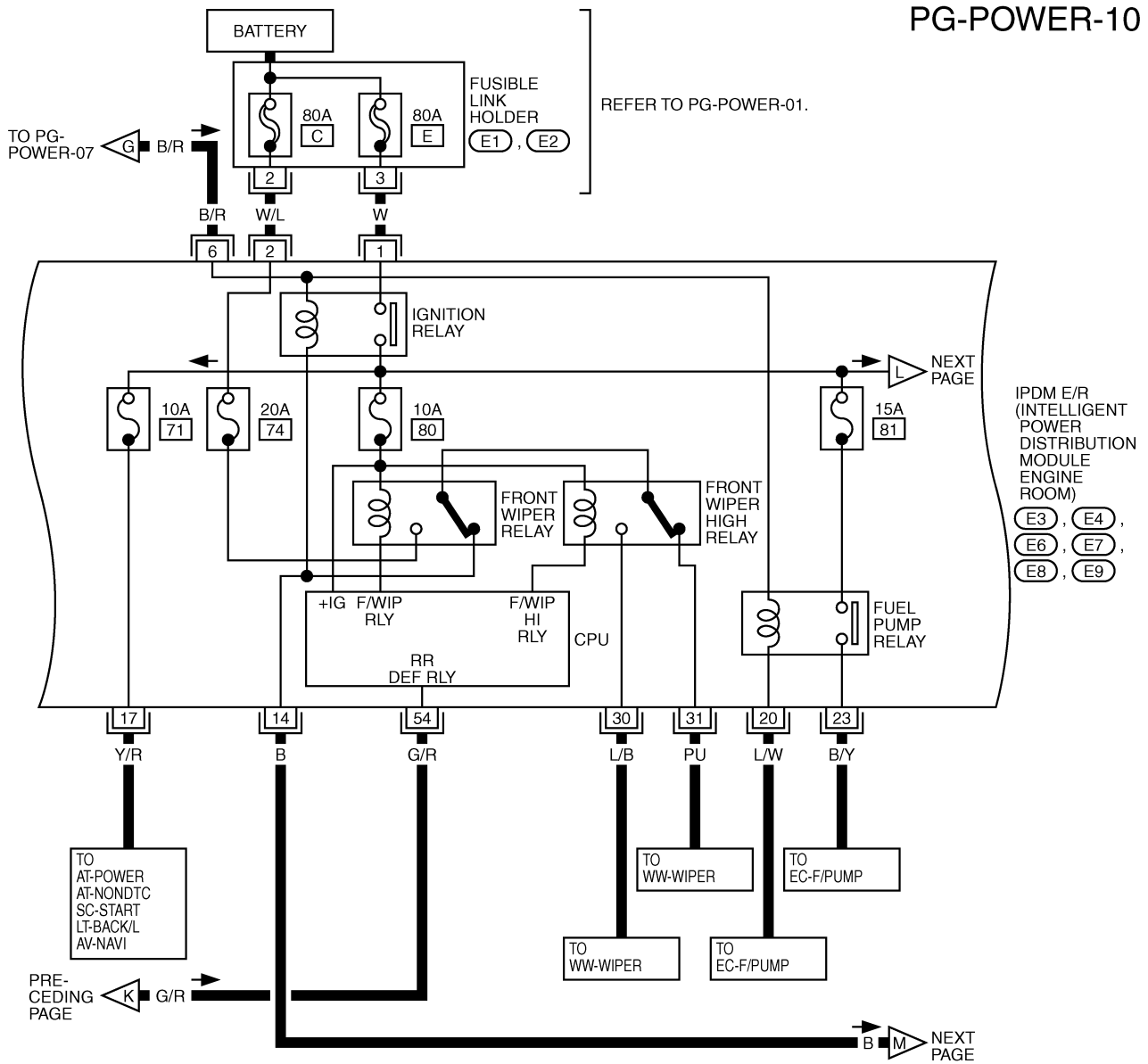
A  
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PG



TKWT1125E

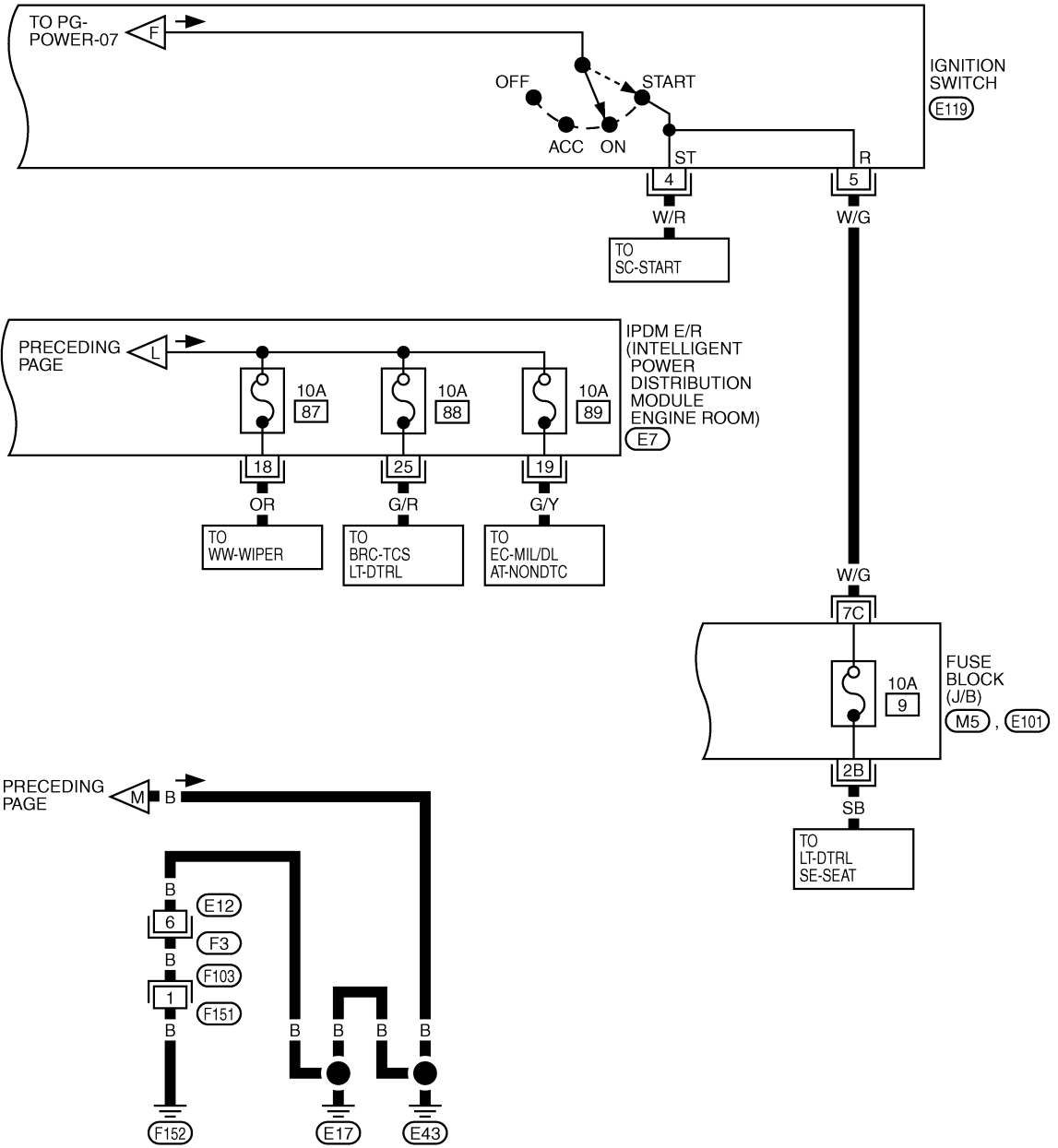
# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-10



# POWER SUPPLY ROUTING CIRCUIT

PG-POWER-11



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H  
I  
J  
PG  
L  
M

21	20	19	18	17
28	27	26	25	24
23	22			

(E7)  
W



5	3	4
2	1	

(E119)  
B

1	2	3	4
5	6	7	8

(F3)  
GY

1	2	3	4
---	---	---	---

(F103)  
W

REFER TO THE FOLLOWING.

(M5), (E101) - FUSE BLOCK-JUNCTION BOX (J/B)

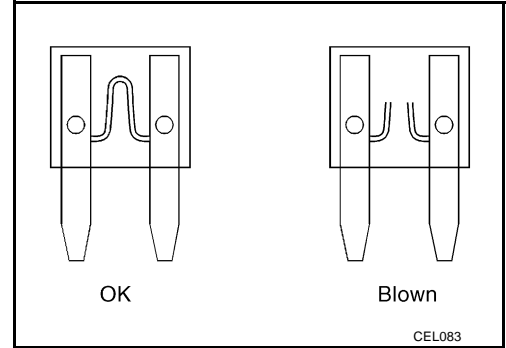
1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22

# POWER SUPPLY ROUTING CIRCUIT

## Fuse

AKS0012D

- 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.



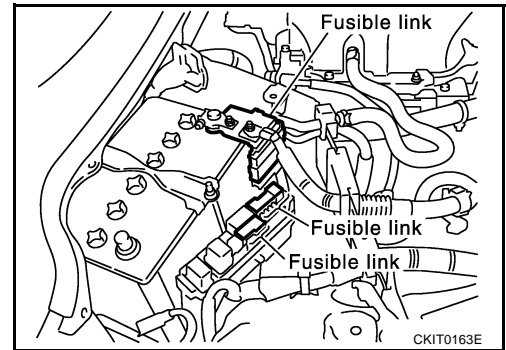
## Fusible Link

AKS0012E

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:

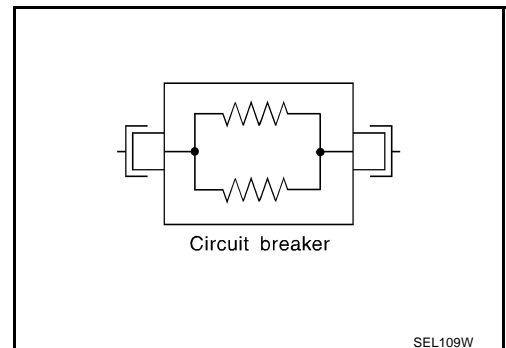
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of incident.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other wiring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



## Circuit Breaker

AKS0012F

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

AKS0012G

- 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, etc.
- It controls operation of each electrical part via 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:
  - Head lamps (Hi, Lo)
  - Parking lamps
  - Tail lamps
2. Wiper control  
Using CAN communication line, it receives signals from BCM and controls the front wipers.
3. Rear window defogger relay control  
Using CAN communication line, it receives signals from BCM and controls the rear window defogger relay.
4. A/C compressor control  
Using CAN communication line, it receives signals from ECM and controls the A/C relay.
5. Cooling fan control  
Using CAN communication line, it receives signals from ECM and controls cooling fan relay.
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	<ul style="list-style-type: none"> <li>● With the ignition switch ON, the headlamp (low) is ON.</li> <li>● With the ignition switch OFF, the headlamp (low) is OFF.</li> </ul>
Tail and parking lamps	Tail and parking lamps OFF.
Cooling fan	<ul style="list-style-type: none"> <li>● With the ignition switch ON, the cooling fan HI operates.</li> <li>● With the ignition switch OFF, the cooling fan stops.</li> </ul>
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 OFF
A/C compressor	A/C compressor OFF

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

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## IPDM E/R STATUS CONTROL

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

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

## CAN Communication System Description

AKS003MM

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

AKS003MN

Refer to [LAN-4, "CAN Communication Unit"](#) .

## Function of Detecting Ignition Relay Malfunction

AKS0012I

- 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.

### NOTE:

When the ignition switch is turned ON, the tail lamp is off.

## Auto Active Test DESCRIPTION

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 RH and lift wiper arms away from windshield (to prevent glass damage by wiper operation).

**NOTE:**

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

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

**NOTE:**

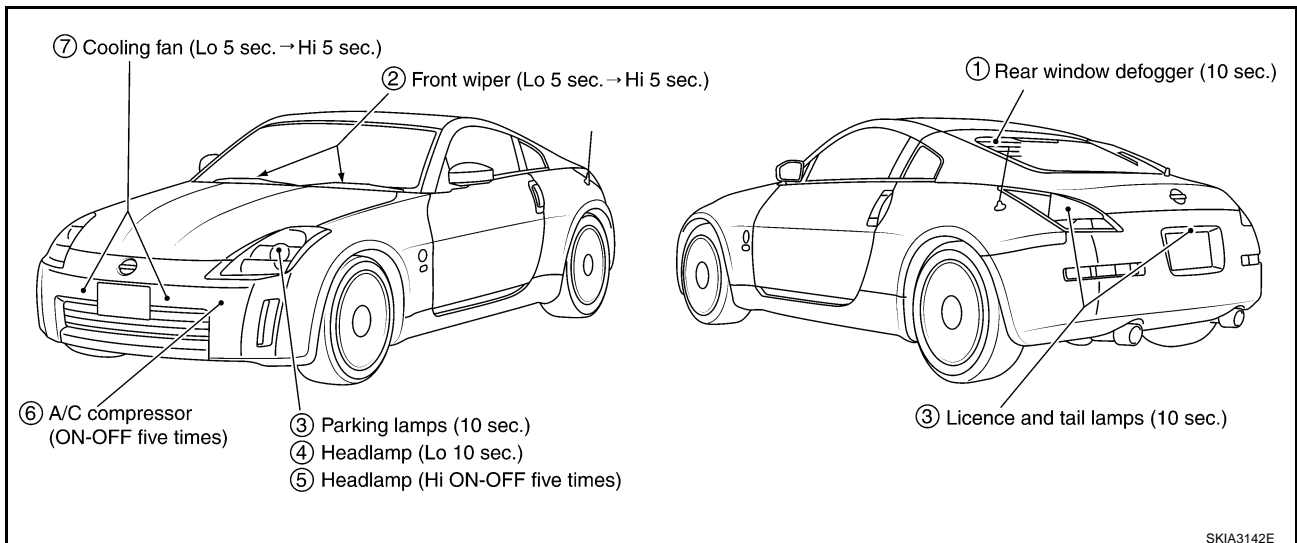
When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

**CAUTION:**

Be sure to inspect **BL-66, "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 seven steps are repeated three times.



**NOTE:**

It will take ten seconds from 3 to 4.

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

## Concept of Auto Active Test

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

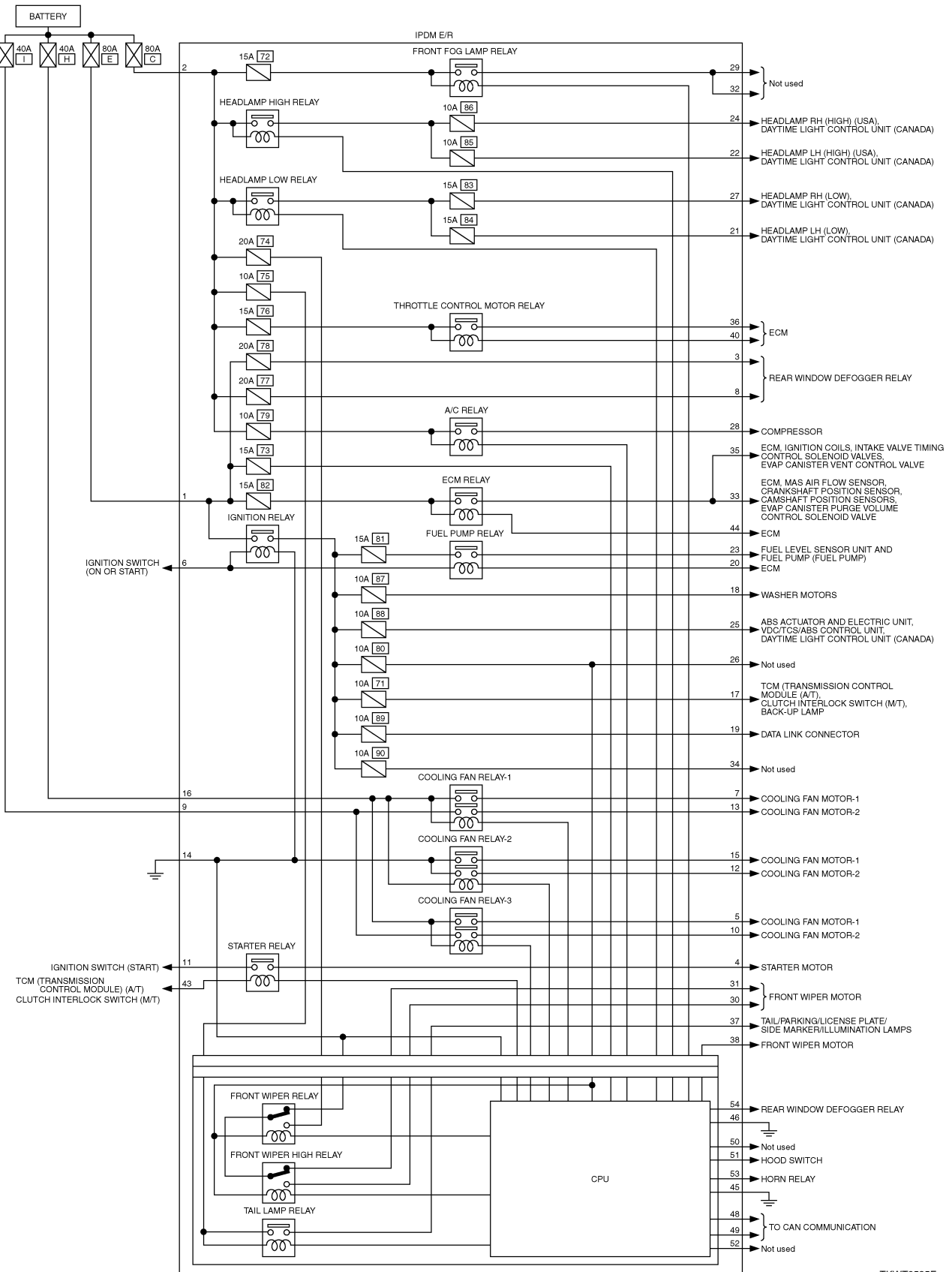
Diagnosis chart in auto active test mode

Symptom	Inspection contents	Possible cause	
Any of front wipers, tail and parking lamps, and head lamps (Hi, Lo) do not operate.	Perform auto active test. Does system in question operate?	YES	● BCM signal input system
		NO	<ul style="list-style-type: none"> <li>● Lamp/wiper motor malfunction</li> <li>● Lamp/wiper motor ground circuit malfunction</li> <li>● Harness/connector malfunction between IPDM E/R and system in question</li> <li>● IPDM E/R (integrated relay) malfunction</li> </ul>
Rear window defogger does not operate.	Perform auto active test. Does rear window defogger operate?	YES	● BCM signal input circuit
		NO	<ul style="list-style-type: none"> <li>● Rear window defogger relay circuit</li> <li>● Open circuit of rear window defogger</li> <li>● IPDM E/R malfunction</li> </ul>
A/C compressor does not operate.	Perform auto active test. Does magnetic clutch operate?	YES	<ul style="list-style-type: none"> <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> </ul>
		NO	<ul style="list-style-type: none"> <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	<ul style="list-style-type: none"> <li>● ECM signal input circuit</li> <li>● CAN communication signal between ECM and IPDM E/R</li> </ul>
		NO	<ul style="list-style-type: none"> <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>

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

## Schematic

AKS0012K

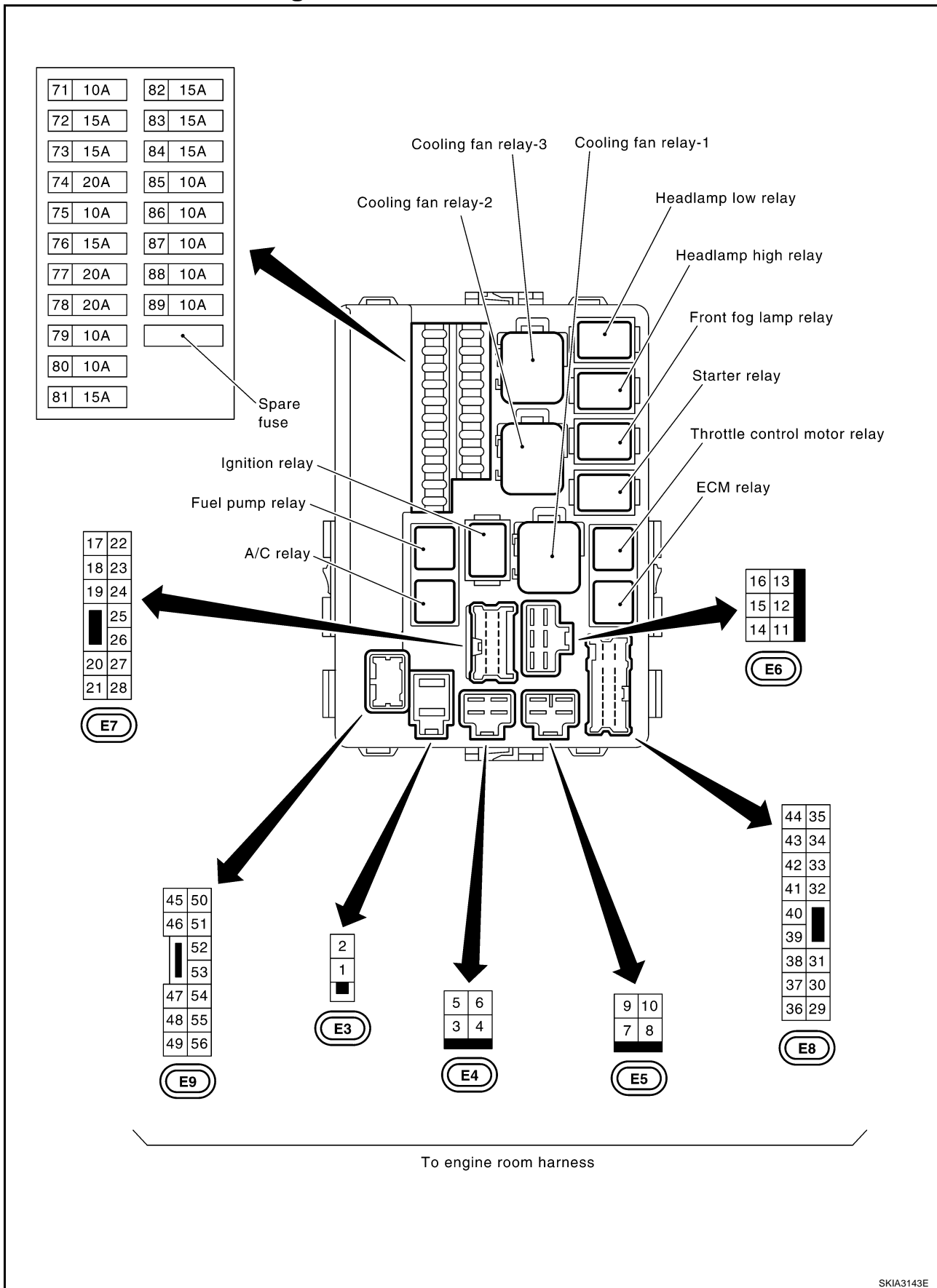


**NOTE:**  
Front fog lamp relay does not used.

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

## IPDM E/R Terminal Arrangement

AKS0012L



SKIA3143E

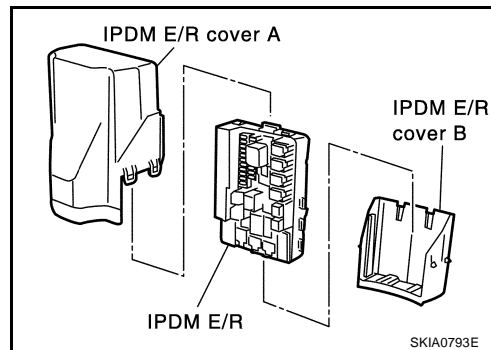
**NOTE:**  
Front fog lamp relay does not used.

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

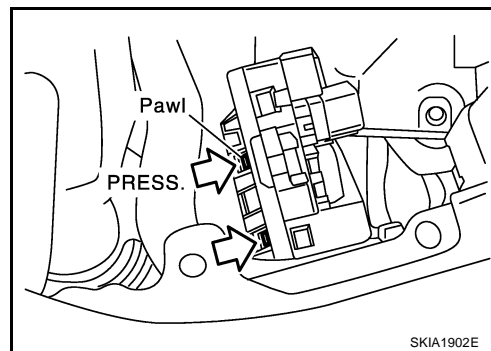
## IPDM E/R Terminal Inspection

AKS0012M

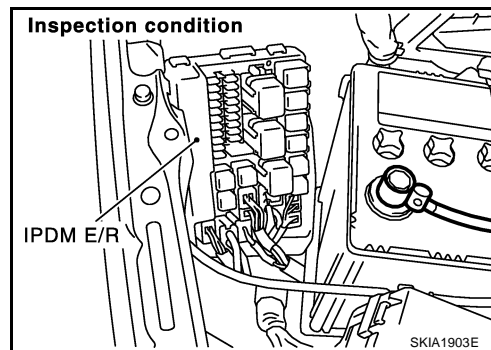
1. Remove hood ledge cover. Refer to [SC-9, "Removal and Installation"](#).
2. Remove cowl top cover (right). Refer to [EI-20, "COWL TOP"](#).
3. Pull up to remove IPDM E/R cover A.



4. While pressing pawl on back side of IPDM E/R cover "B" toward vehicle front to unlock, lift up IPDM E/R.



5. Be sure to incline IPDM E/R when placing it. Then perform inspection on each terminal.



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

## IPDM E/R Power/Ground Circuit Inspection

AKS0012N

### 1. FUSE AND FUSIBLE LINK INSPECTION

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

Terminal No.	Signal name	Fuse, fusible link No.
1, 2	Battery power	F/L-C, F/L-E, 73
-	Ignition power	80

OK or NG?

- OK >> GO TO 2.  
 NG >> Replace fuse or fusible link.

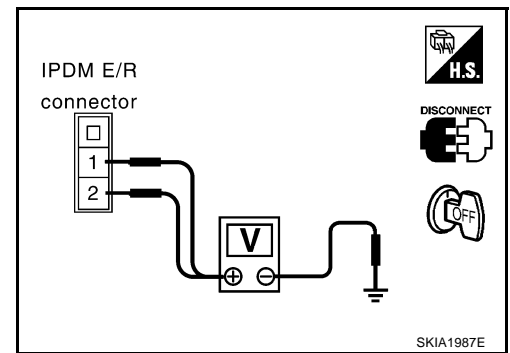
### 2. POWER CIRCUIT INSPECTION

1. Disconnect IPDM E/R harness connector E3.
2. 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 circuit harness.



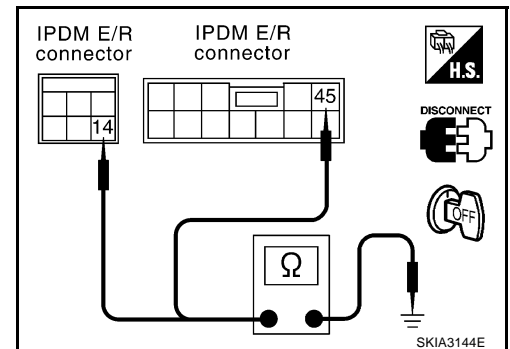
### 3. GROUND CIRCUIT INSPECTION

1. Disconnect IPDM E/R harness connectors E6 and E9.
2. Check continuity between IPDM E/R harness connectors E6 terminal 14 (B), E9 terminal 45 (B) and ground.

**Continuity should exist.**

OK or NG

- OK >> Inspection end.  
 NG >> Replace ground circuit harness of IPDM E/R.





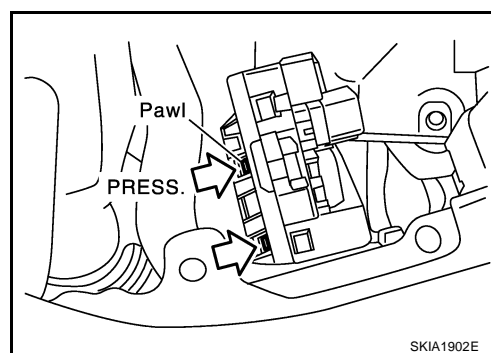
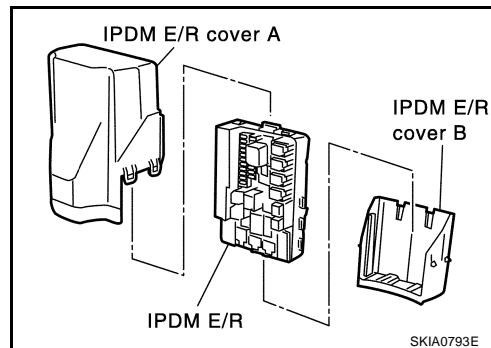
# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

AKS00120

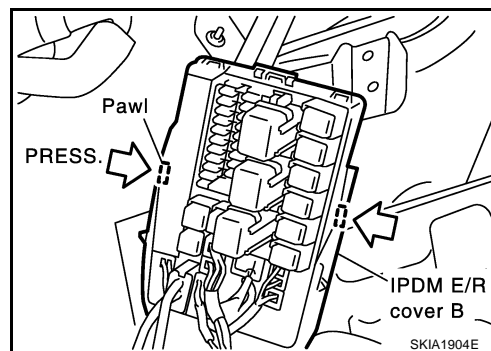
## Removal and Installation of IPDM E/R

### REMOVAL

1. Remove battery. Refer to [SC-9, "Removal and Installation"](#) in "Starting and Charging System (SC)" section.
2. 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.



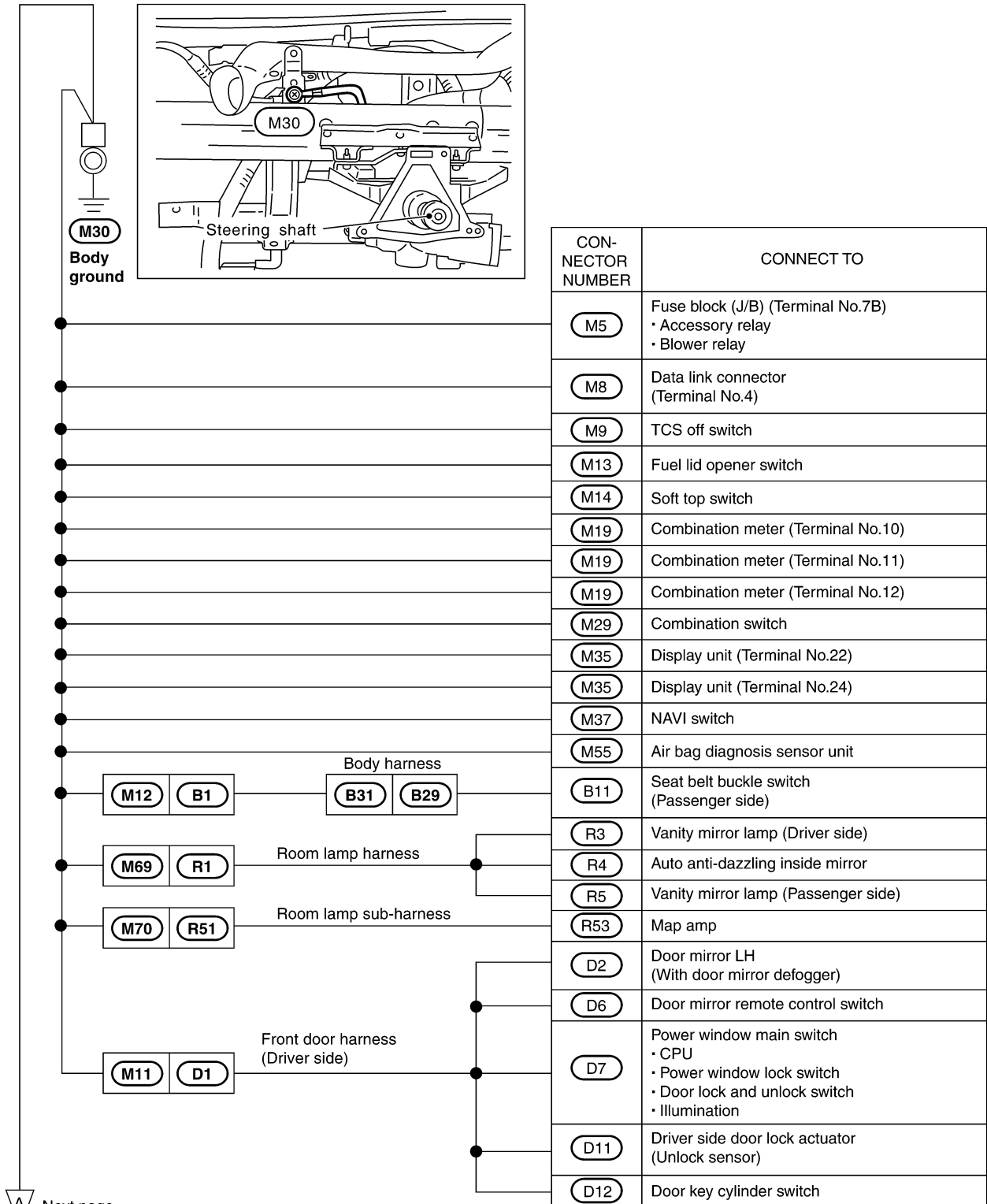
### INSTALLATION

- Install in the reverse order of removal.

A  
B  
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## GROUND

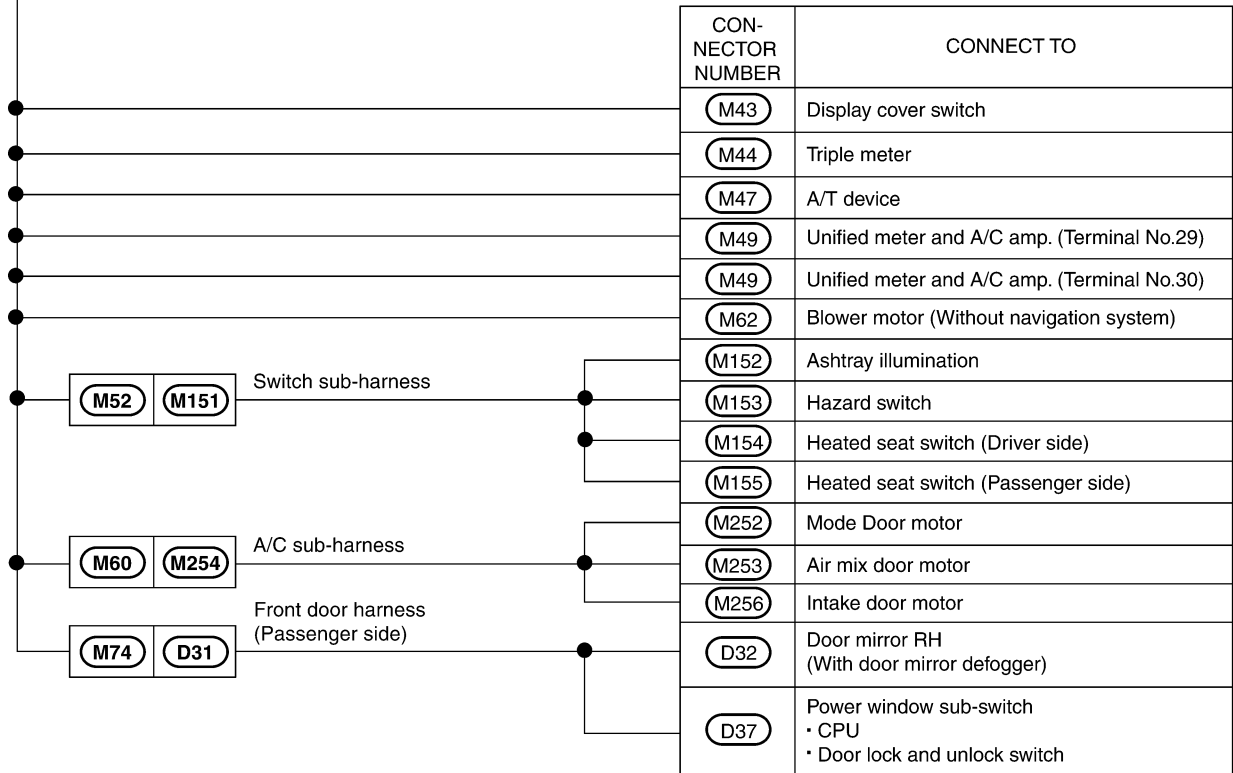
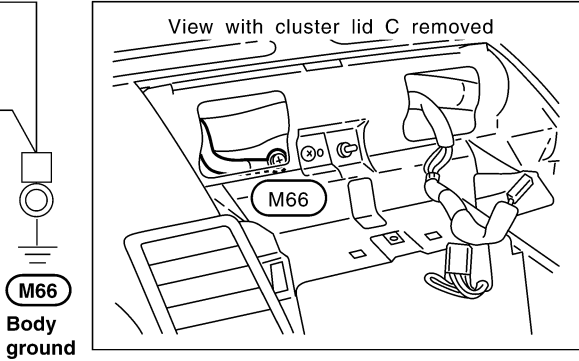
### Ground Distribution MAIN HARNESS



# GROUND

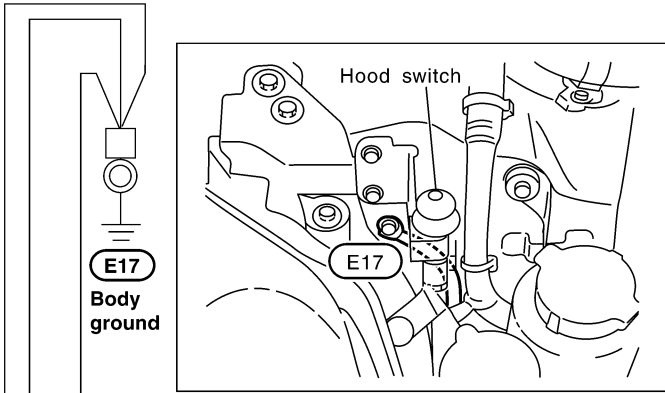
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A Preceding page

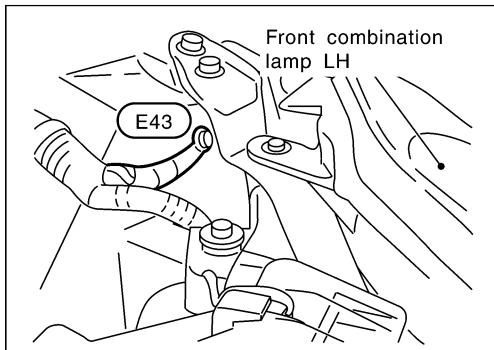


# GROUND

## ENGINE ROOM HARNESS



CON-NECTOR NUMBER	CONNECT TO
E9	IPDM E/R (Intelligent power distribution module engine room) (Terminal No.45)
E9	IPDM E/R (Intelligent power distribution module engine room) (Terminal No.46)
E15	Daytime light control unit (Terminal No.16)
E24	Front combination lamp RH (Terminal No.1) • Turn signal • Parking • Side marker
E24	Front combination lamp RH (Terminal No.4) • Headlamp (High)
E24	Front combination lamp RH (Terminal No.8) • Headlamp (Low)
E38	Cooling fan motor-1
E39	Cooling fan motor-2




CON-NECTOR NUMBER	CONNECT TO
E6	IPDM E/R (Intelligent power distribution module engine room) (Terminal No.14)
E14	Daytime light control unit (Terminal No.14)

B C Next page

To engine control earth sub-harness

# GROUND


 Preceding page

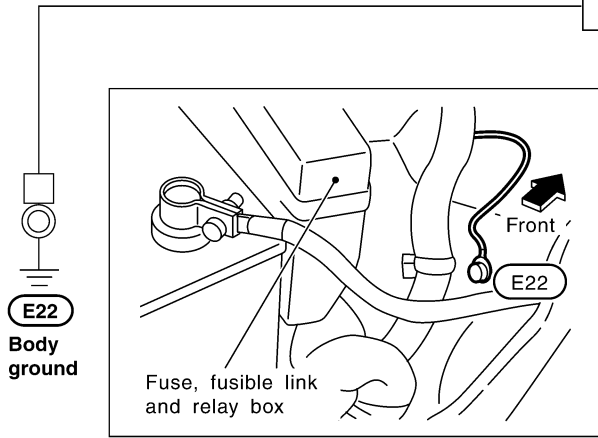
	CON-NECTOR NUMBER	CONNECT TO
●	E23	Hood switch
●	E30	Washer level sensor
●	E33	Horn (Low)
●	E36	Horn (High)
●	E40	Front combination lamp LH (Terminal No.1) * Turn signal * Parking * Side marker
●	E40	Front combination lamp LH (Terminal No.4) * Headlamp (High) (For U.S.A)
●	E40	Front combination lamp LH (Terminal No.8) * Headlamp (Low)
●	E44	Brake fluid lever switch
●	E51	ABS actuator and electric unit (Terminal No.16)
●	E51	ABS actuator and electric unit (Terminal No.30)
●	E52	Front wiper motor
●	E105	BCM (Body control module)
●	E111	Stop lamp switch (With A/T)

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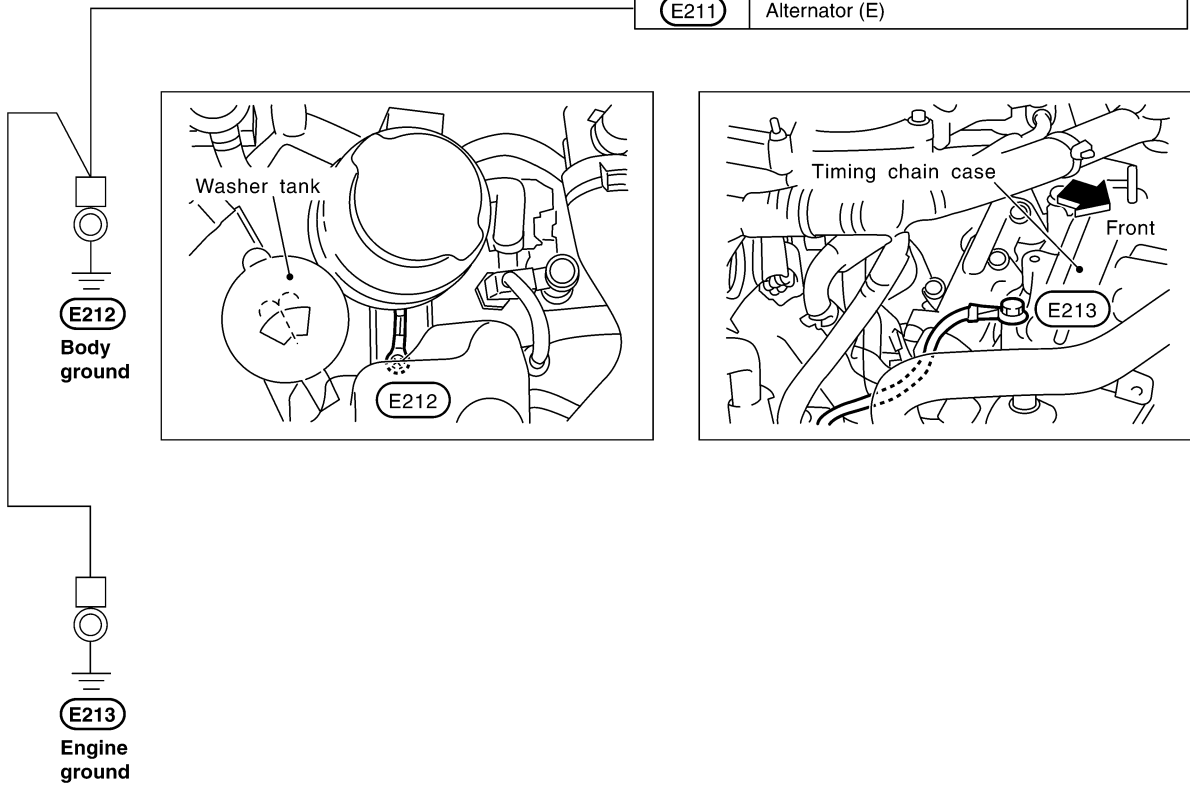
PG

# GROUND

CON-NECTOR NUMBER	CONNECT TO
E37	Shield wire (Crash zone sensor)



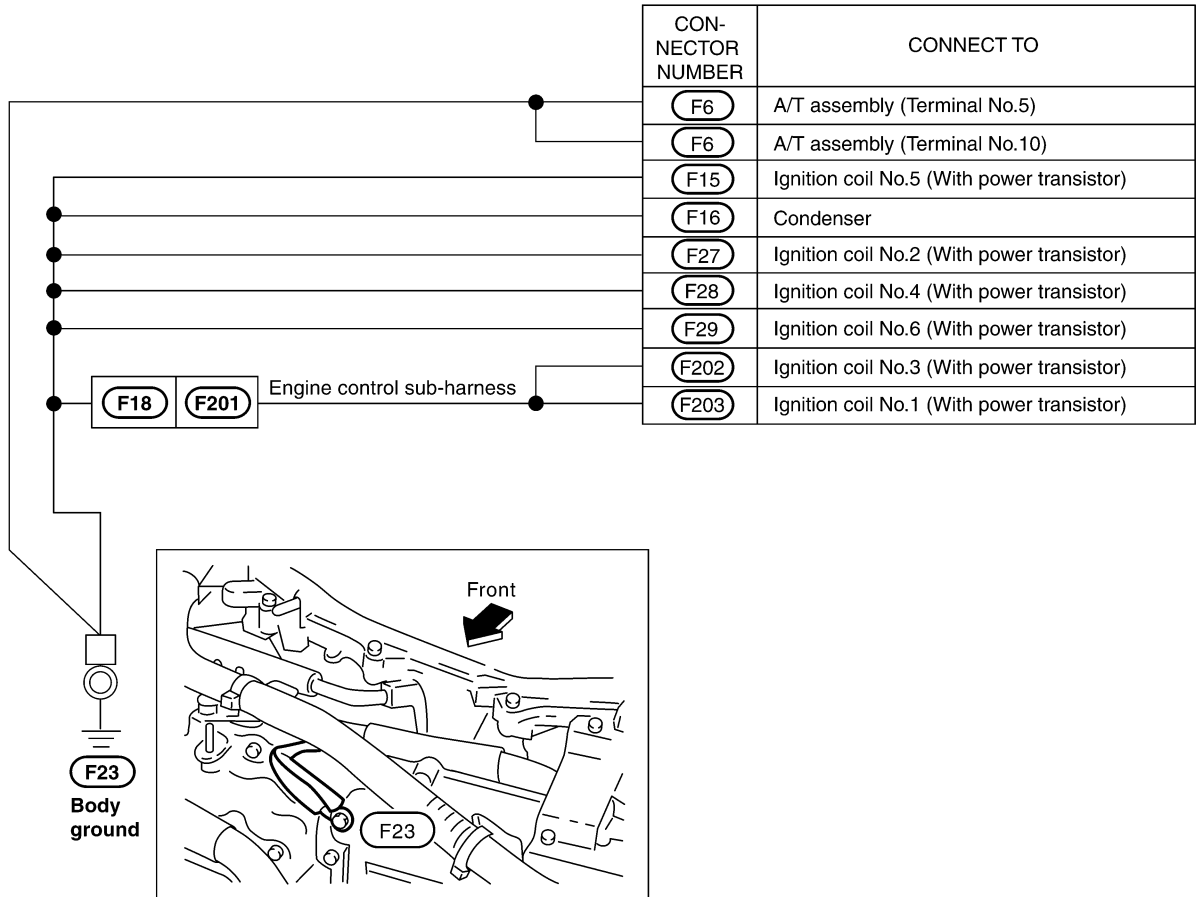
CON-NECTOR NUMBER	CONNECT TO
E211	Alternator (E)



CKIT0170E

# GROUND

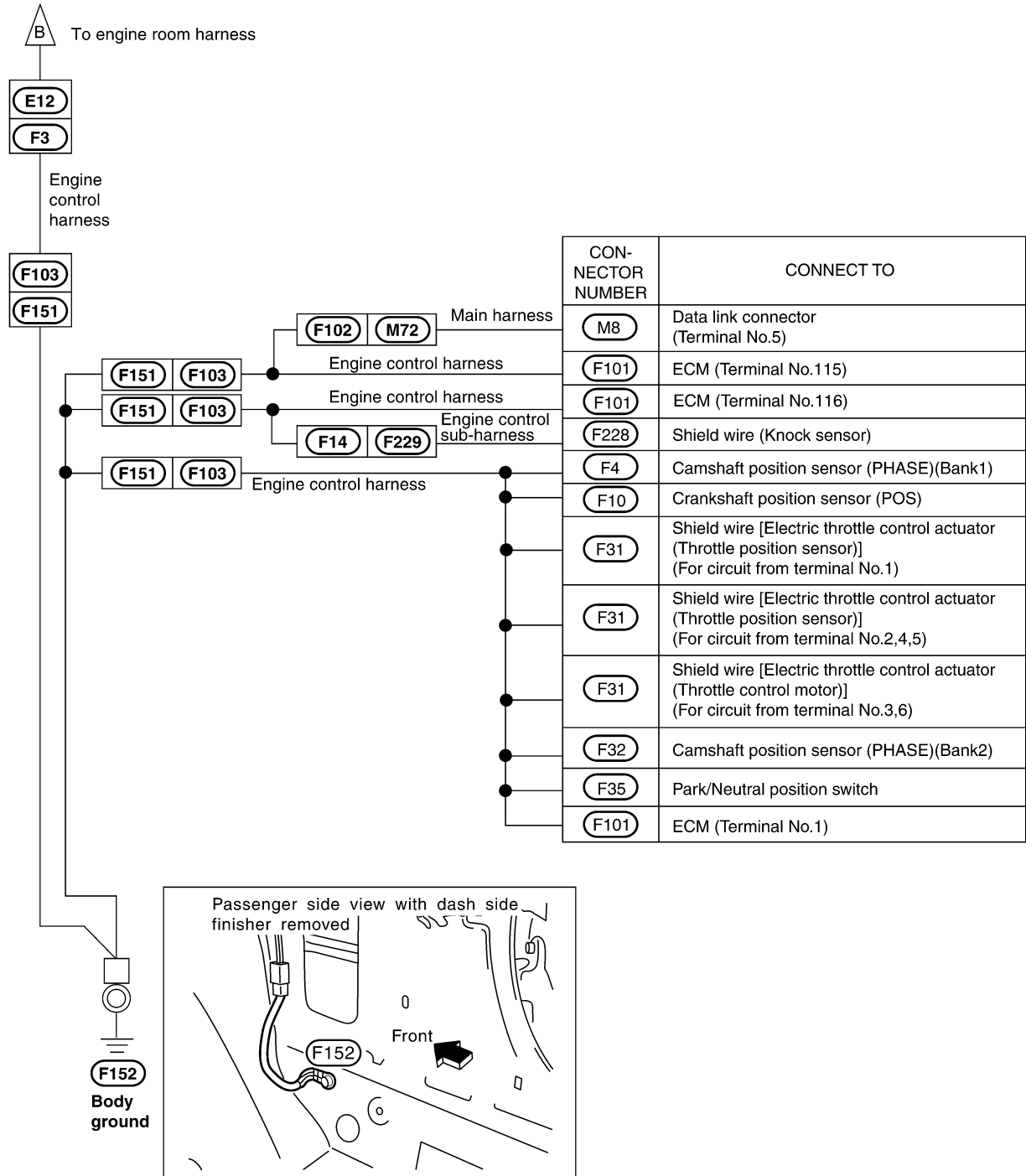
## ENGINE CONTROL HARNESS



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PG

# GROUND

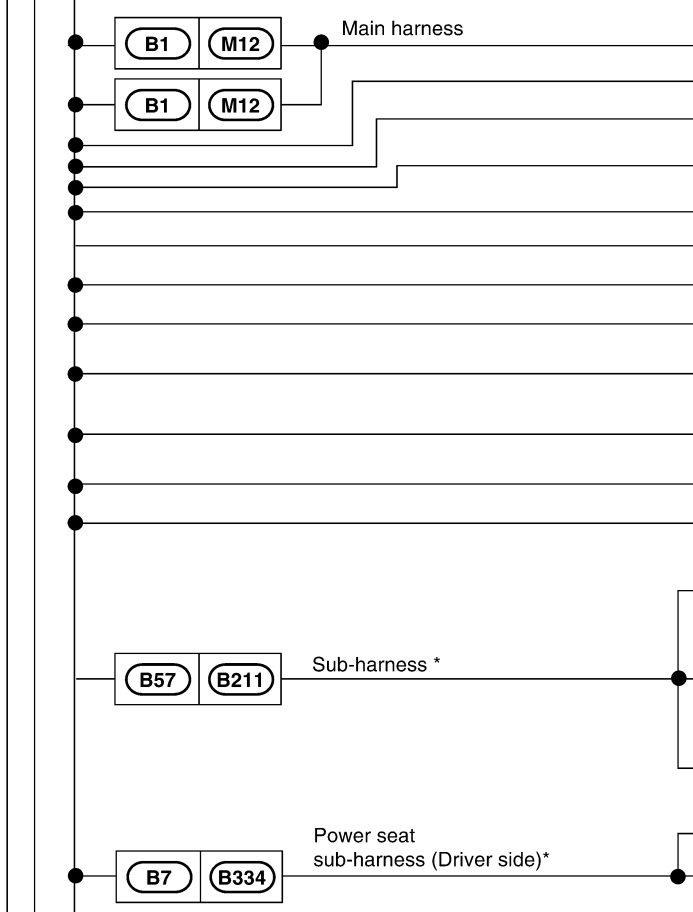
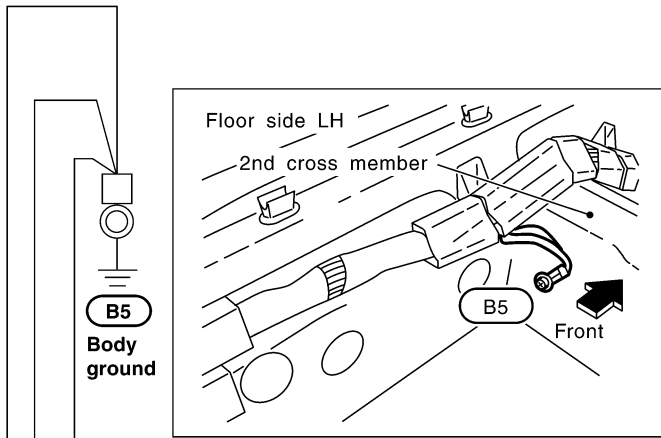




# GROUND

## BODY HARNESS

A  
B  
C  
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I  
J  
PG  
L  
M



CONNECTOR NUMBER	CONNECT TO
M62	Blower motor (With navigation system)
B8	Seat belt buckle switch (Driver side)
B26	Condenser
B27	Fuel level sensor unit and fuel pump (Fuel pump)
B37	Heated seat relay
B41	Luggage floor box lamp
B64	Storage lid switch LH(Close)
B65	Storage lid unlock actuator LH
B66	Soft top control unit (Terminal No.7)
B66	Soft top control unit (Terminal No.16)
B69	Storage lid switch RH(Close)
B70	Storage lid unlock actuator RH
B212	Soft top switch assembly 1 • Roof full open switch • Body interference prevention switch
B213	Soft top switch assembly 2 • Roof full close switch • Roll bar interference prevention switch
B214	Plate rail RR • 5th bow full open switch • 5th bow full close switch
B326	Power seat switch (Driver side)
B332	Seat cushion heater (Driver side)

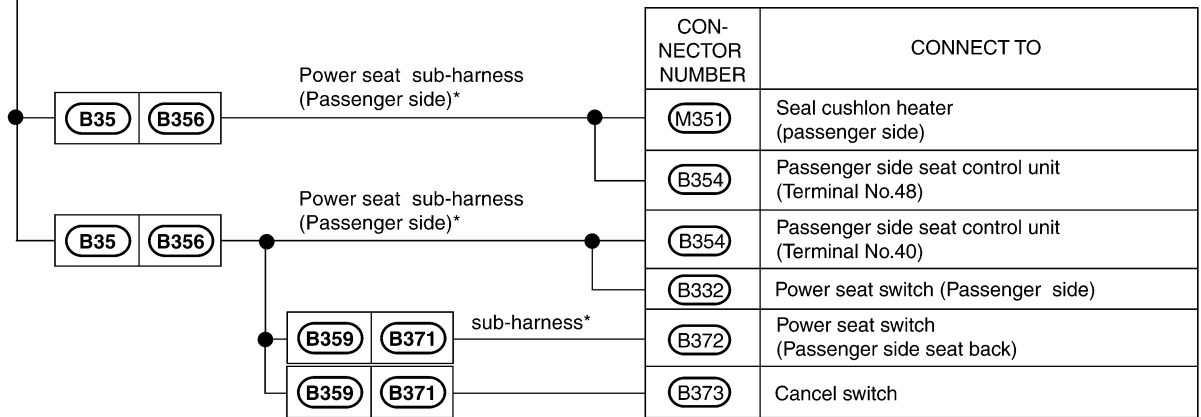
\* : This sub-harness is not shown in "HARNES LAYOUT".

E F Next page

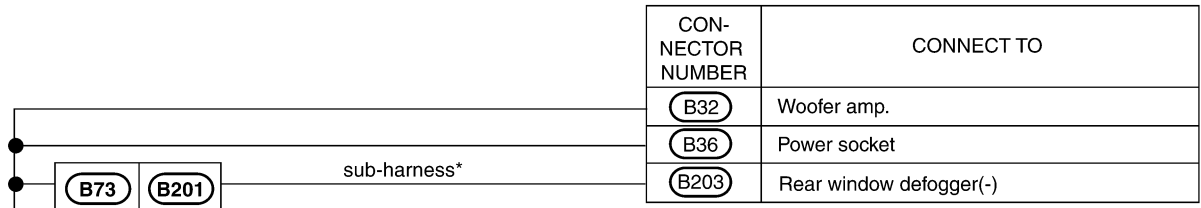
D To tail harness

# GROUND

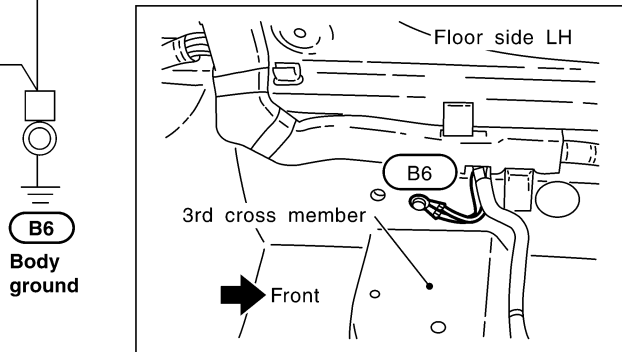
E F Preceding page



\* : This sub-harness is not shown in "HARNESS LAYOUT".



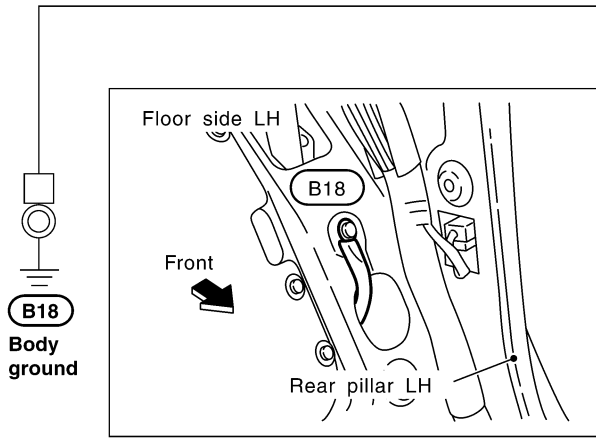
\* : This sub-harness is not shown in "HARNESS LAYOUT".



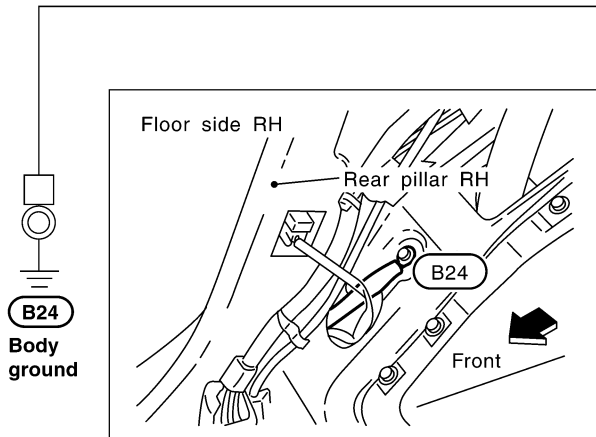
# GROUND

A  
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CONNECTOR NUMBER	CONNECT TO
B15	Shield wire [LH side air bag (Satellite) sensor]

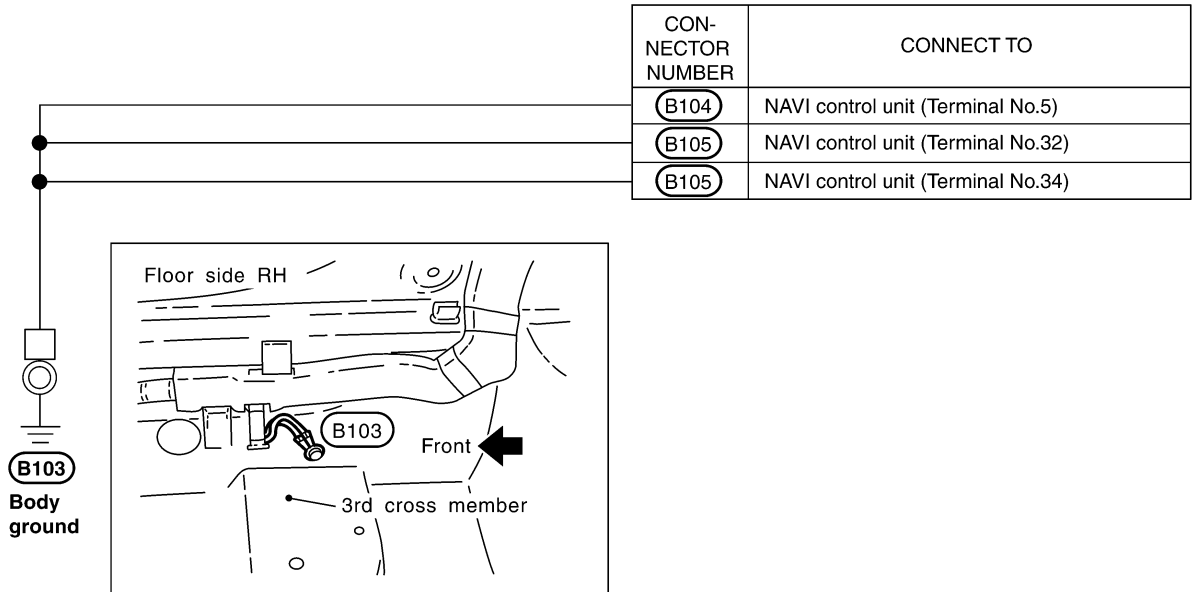
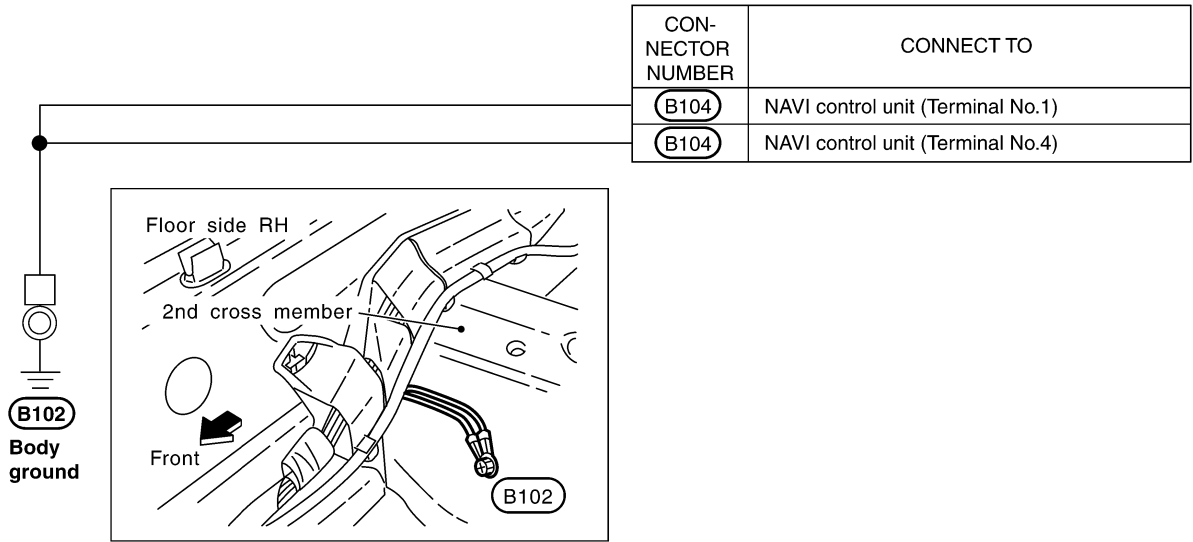


CONNECTOR NUMBER	CONNECT TO
B21	Shield wire [RH side air bag (Satellite) sensor]



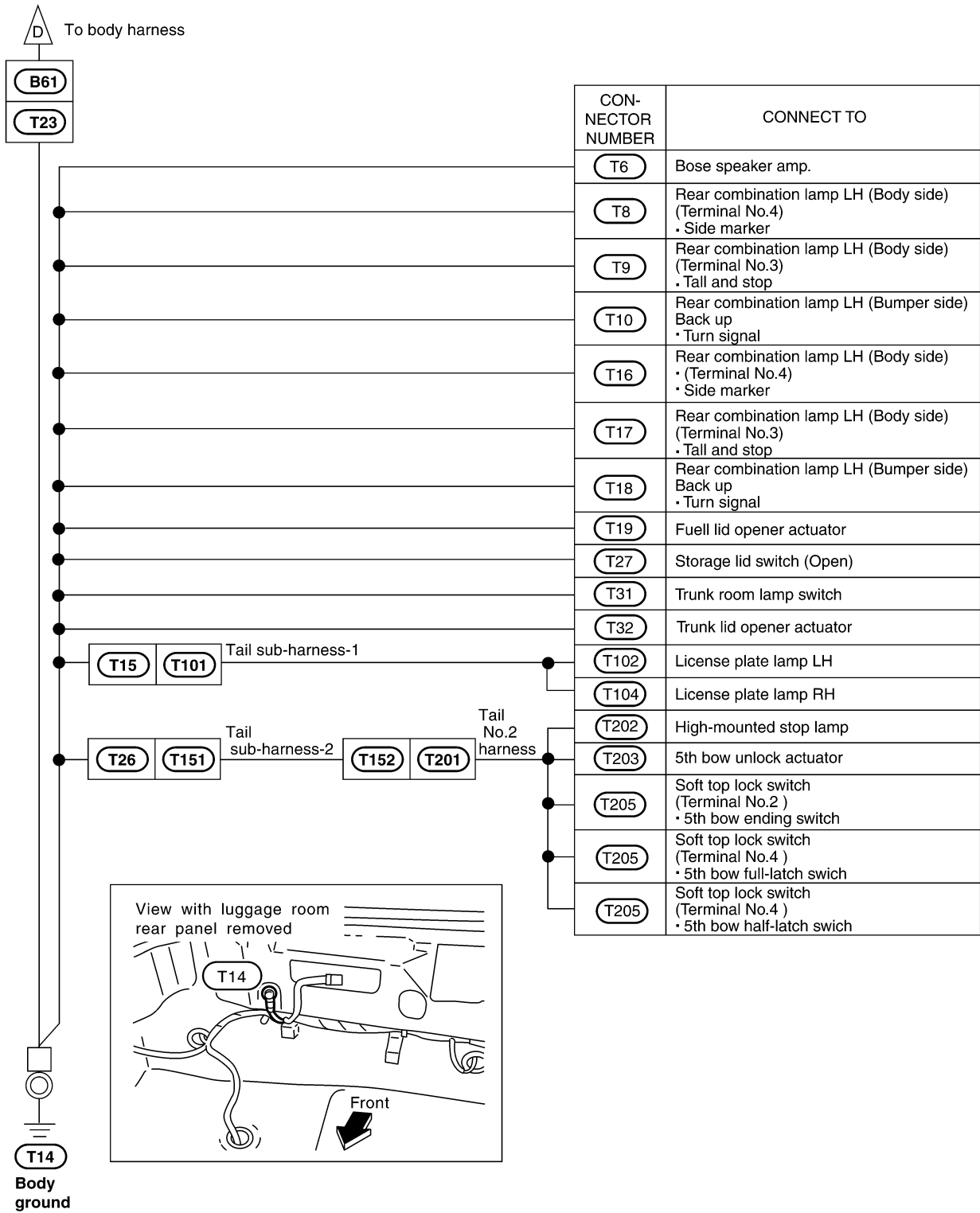
# GROUND

## BODY NO.2 HARNESS



# GROUND

## TAIL HARNESS



A  
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L  
M

# HARNESS

## HARNESS

PF0:00011

### Harness Layout

AKS0012Q

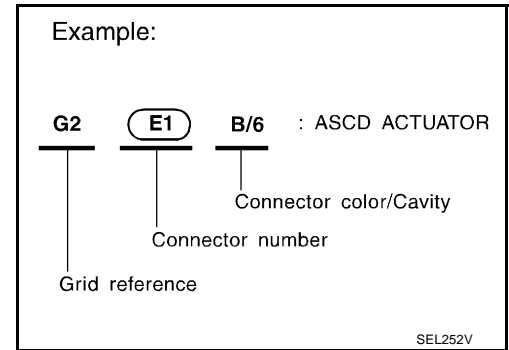
#### HOW TO READ HARNESS LAYOUT

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

- Main Harness
- Engine Room Harness (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

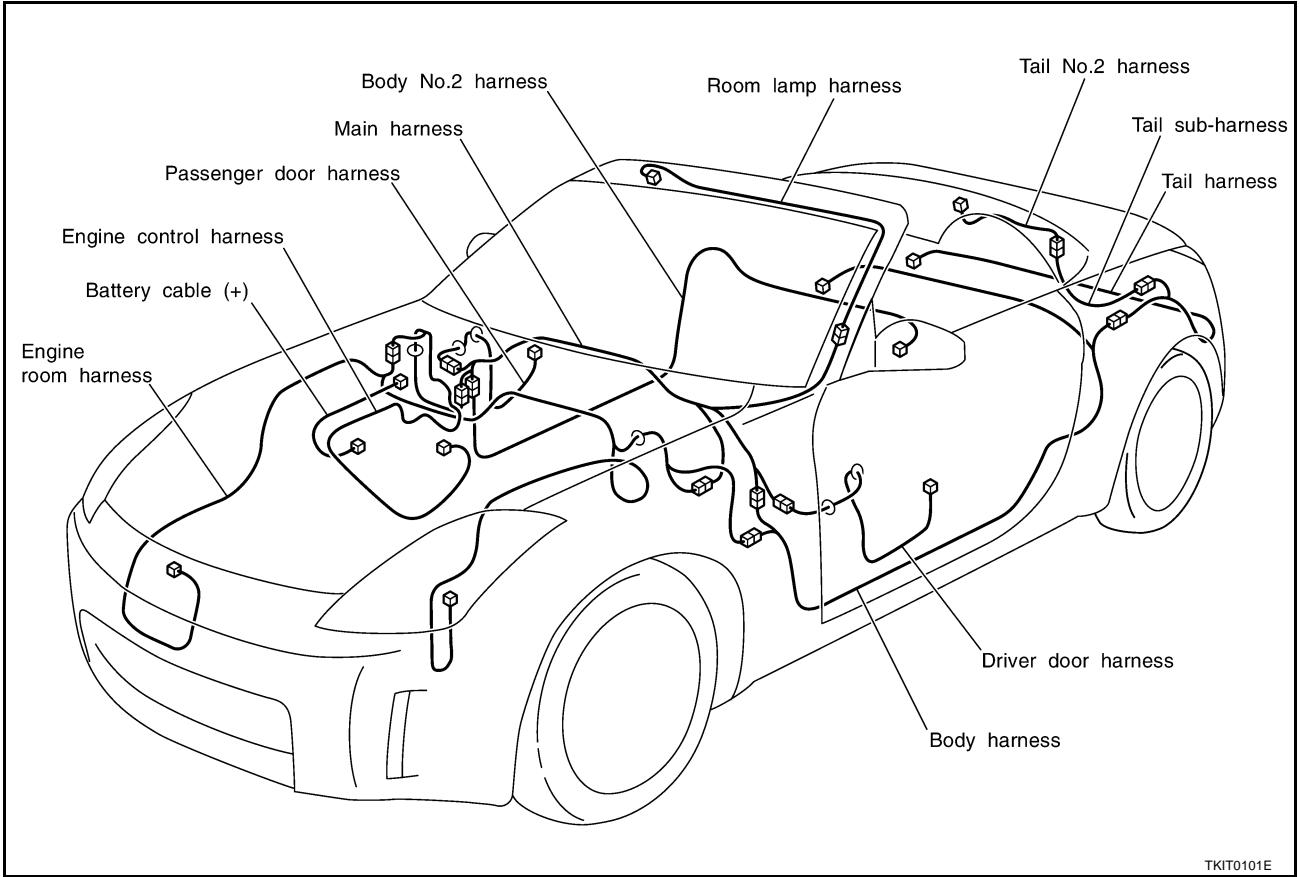
Main symbols of connector (in Harness Layout) are indicated in the below.

Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
<ul style="list-style-type: none"> <li>• Cavity: Less than 4</li> <li>• Relay connector</li> </ul>				
<ul style="list-style-type: none"> <li>• Cavity: From 5 to 8</li> </ul>				
<ul style="list-style-type: none"> <li>• Cavity: More than 9</li> </ul>				
<ul style="list-style-type: none"> <li>• Ground terminal etc.</li> </ul>	—			

CKIT0108E

# HARNESS

## OUTLINE

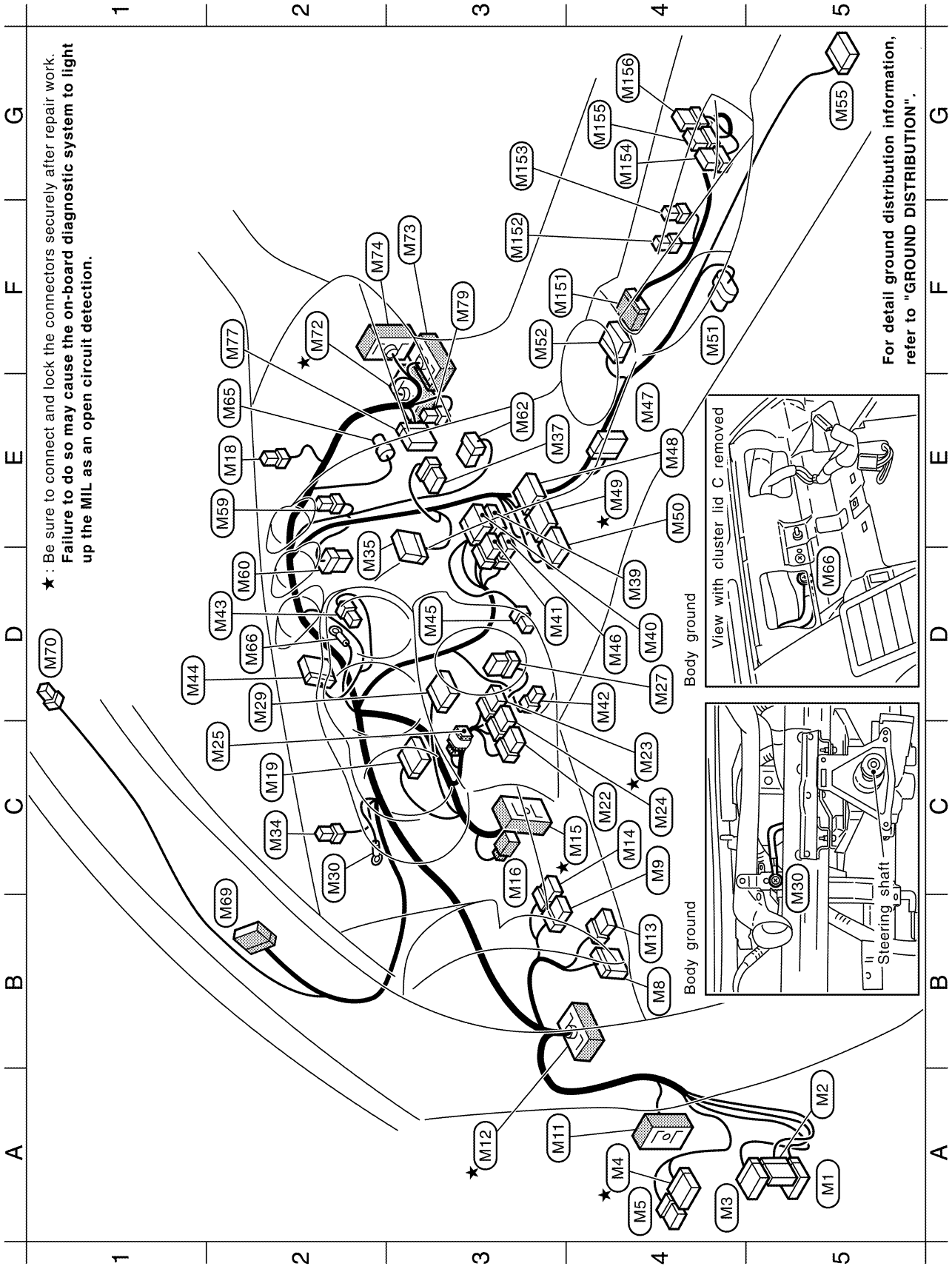


A  
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PG

# HARNESS

## MAIN HARNESS

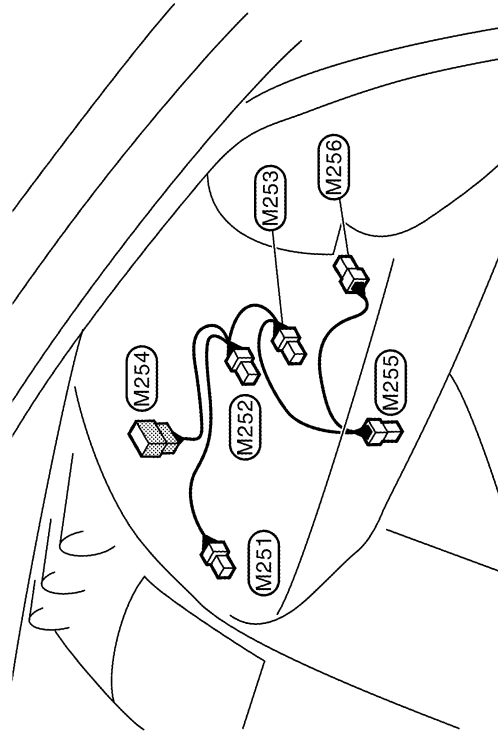


★ : Be sure to connect and lock the connectors securely after repair work.  
 Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection.

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



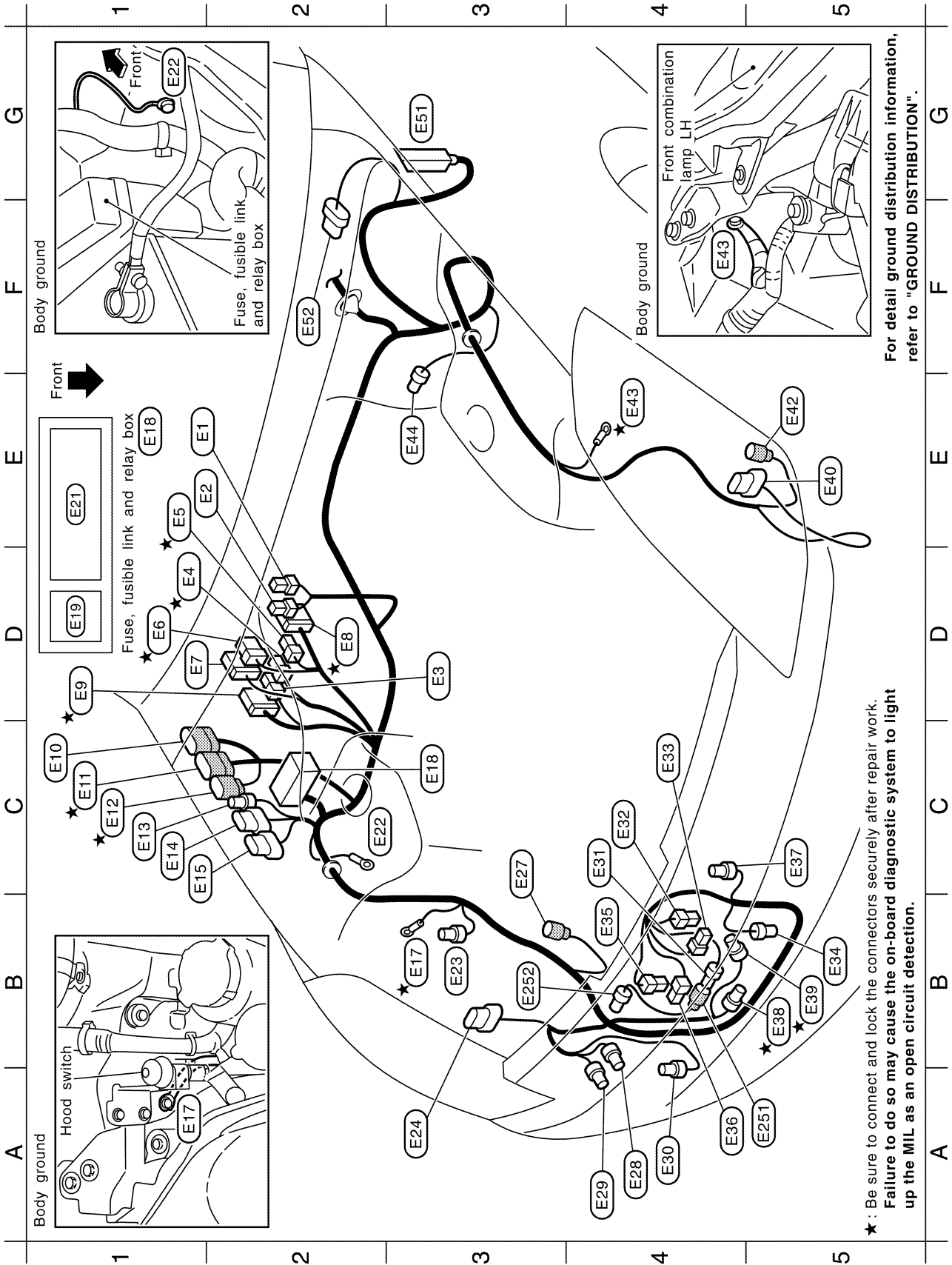
A5	(M1)	W/16	:	BCM (Body control module)	F4	(M51)	B/6	:	Not used	<b>Switch sub-harness</b>
A5	(M2)	W/16	:	BCM (Body control module)	F3	(M52)	W/12	:	To (M151)	(M151) W/12 : To (M52)
A4	(M3)	BR/24	:	BCM (Body control module)	G5	(M55)	Y/28	:	Air bag diagnosis sensor unit	(M152) W/2 : Ashtray illumination
A4	(M4)	W/16	:	Fuse block (J/B)	E2	(M59)	L/4	:	Fuel lid opener relay	(M153) W/4 : Hazard switch
A4	(M5)	W/8	:	Fuse block (J/B)	D2	(M60)	W/6	:	To (M254)	(M154) W/6 : Heated seat switch (Driver side)
B4	(M8)	W/16	:	Data link connector	E3	(M62)	W/6	:	Blower motor	(With heated seat)
C4	(M9)	GY/6	:	TCS off switch	E2	(M65)	Y/4	:	Front passenger air bag module	(With heated seat)
A3	(M11)	SMJ	:	To (D1)	D2	(M66)	—	:	Body ground	(Passenger side)
A3	(M12)	SMJ	:	To (B1)	B2	(M69)	W/10	:	To (R1)	(With heated seat)
B4	(M13)	GY/6	:	Fuel lid opener switch	D1	(M70)	W/4	:	To (F51)	
C4	(M14)	W/6	:	Soft top switch	F2	(M72)	SMJ	:	To (F102)	
C4	(M15)	SMJ	:	To (E108)	F3	(M73)	SMJ	:	To (B101)	
C3	(M16)	Y/4	:	To (E109)						(With navigation system)
E2	(M18)	B/2	:	Sunload sensor	F2	(M74)	SMJ	:	To (D31)	<b>A/C sub-harness</b>
C2	(M19)	W/24	:	Combination meter	F2	(M77)	W/24	:	Not used	(M251) W/3 : Not used
C4	(M22)	W/8	:	Not used	F3	(M79)	W/2	:	Not used	(M252) W/3 : Mode door motor
C4	(M23)	GY/8	:	Combination switch (Spiral cable)						(M253) W/3 : Air mix door motor
C4	(M24)	Y/6	:	Combination switch (Spiral cable)						(M254) W/6 : To (M60)
C2	(M25)	BR/2	:	Key switch						(M255) W/4 : Intake sensor
D4	(M27)	W/8	:	NATS antenna amp.						(M256) W/3 : Intake door motor
D2	(M29)	W/16	:	Combination switch						
C2	(M30)	—	:	Body ground						
C2	(M34)	BR/2	:	Security indicator lamp						
D2	(M35)	GY/24	:	Display unit (With navigation system)						
E3	(M37)	W/8	:	NAVI switch (With navigation system)						
D4	(M39)	W/16	:	Audio unit (With navigation system and with BOSE system)						
D4	(M40)	W/10	:	Audio unit						
D3	(M41)	W/6	:	Audio unit						
D4	(M42)	W/2	:	In-vehicle sensor						
D2	(M43)	W/3	:	Display cover switch (With navigation system)						
D1	(M44)	W/12	:	Triple meter						
D3	(M45)	BR/2	:	Antenna amp. (Via sub-harness)						
D4	(M46)	BR/8	:	Audio unit (With navigation system and without BOSE system)						
E4	(M47)	W/10	:	A/T device (For A/T)						
E4	(M48)	GY/20	:	Unified meter and A/C amp.						
E4	(M49)	GY/16	:	Unified meter and A/C amp.						
E4	(M50)	W/24	:	Unified meter and A/C amp.						



★ : 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.

# HARNESS

## ENGINE ROOM HARNESS Engine Compartment



★ : 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.

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

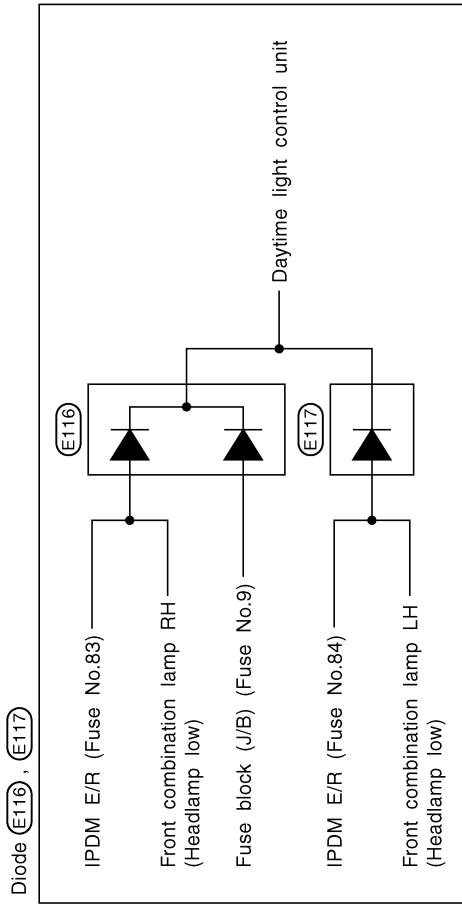
E1	(E1)	BR/2	: Fusible link holder
E1	(E2)	GY/2	: Fusible link holder
D3	(E3)	B/2	: IPDM E/R (Intelligent power distribution module engine room)
D1	★ (E4)	W/4	: IPDM E/R (Intelligent power distribution module engine room)
E1	★ (E5)	B/4	: IPDM E/R (Intelligent power distribution module engine room)
D1	★ (E6)	W/6	: IPDM E/R (Intelligent power distribution module engine room)
D1	(E7)	W/12	: IPDM E/R (Intelligent power distribution module engine room)
D2	★ (E8)	GY/16	: IPDM E/R (Intelligent power distribution module engine room)
D1	★ (E9)	W/12	: IPDM E/R (Intelligent power distribution module engine room)
C1	(E10)	GY/9	: To (F1)
C1	★ (E11)	GY/10	: To (F2)
C1	★ (E12)	GY/8	: To (F3)
C1	(E13)	GY/4	: Daytime light control unit (For Canada)
C1	(E14)	GY/6	: Daytime light control unit (For Canada)
C1	(E15)	GY/8	: Daytime light control unit (For Canada)
B3	★ (E17)	—	: Body ground
C3	(E18)	—	: Fuse, fusible link and relay box
D1	(E19)	L/4	: Back-up lamp relay (With A/T)
E1	(E21)	—	: Fuse and fusible link block
C2	(E22)	—	: Body ground
B3	(E23)	GY/2	: Hood switch
A3	(E24)	SB/8	: Front combination lamp RH
C3	(E27)	GY/2	: Front wheel sensor RH
A4	(E28)	G/2	: Rear washer motor
A4	(E29)	GY/2	: Front washer motor
A4	(E30)	BR/2	: Washer level sensor
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)	SB/8	: Front combination lamp LH
E5	(E42)	L/2	: Front wheel sensor LH
E4	★ (E43)	—	: Body ground
E3	(E44)	GY/2	: Brake fluid level switch
G3	(E51)	SMJ	: ABS actuator and electric unit
F2	(E52)	GY/5	: Front wiper motor

## Sub-harness

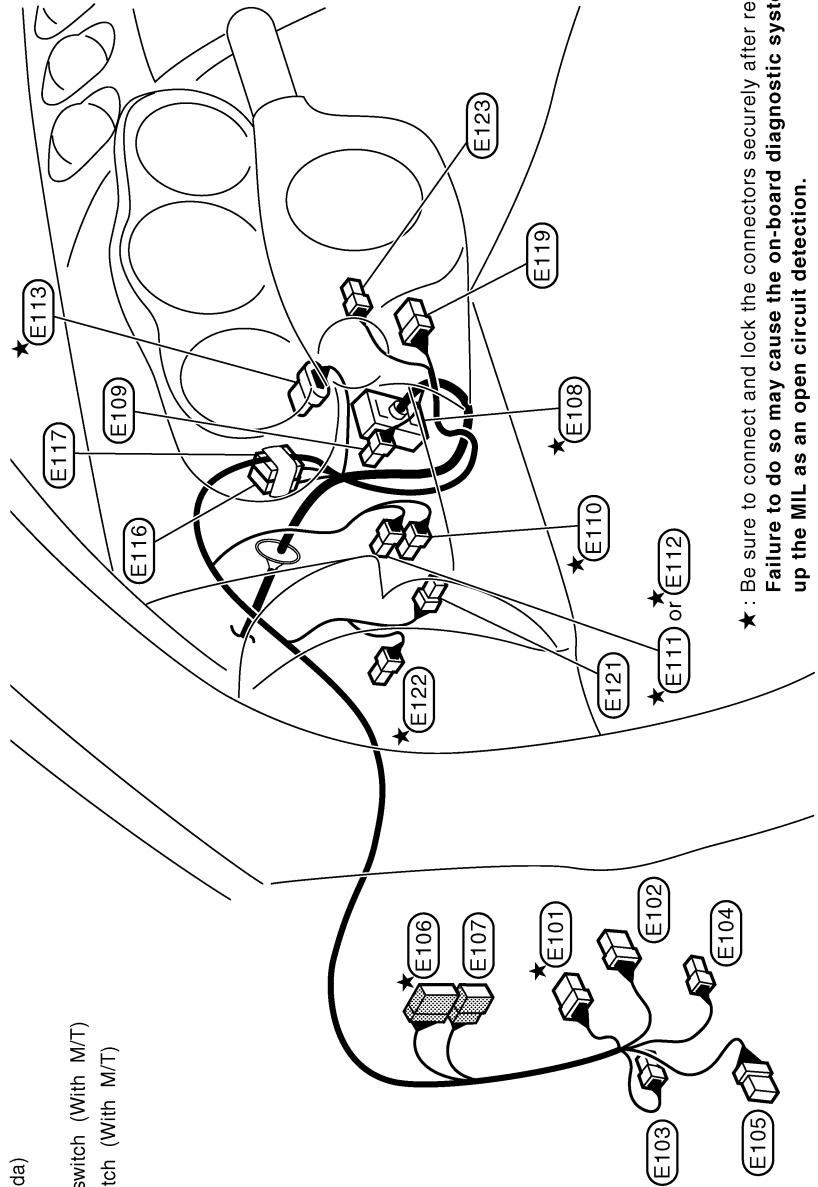
A5	(E251)	B/3	: To (E31)
B3	(E252)	B/3	: Refrigerant pressure sensor

★ : 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.**

## Passenger Compartment



- ★ (E101) W/8 : Fuse block (J/B)
- (E102) W/6 : Fuse block (J/B)
- (E103) B/1 : Fuse block (J/B)
- (E104) B/2 : Fuse block (J/B)
- (E105) W/8 : BCM (Body control module)
- ★ (E106) W/18 : To (B2)
- (E107) W/6 : To (B3)
- ★ (E108) SMJ : To (M15)
- (E109) Y/4 : To (M16)
- ★ (E110) BR/2 : ASCD brake switch
- ★ (E111) W/4 : Stop lamp switch (With A/T)
- ★ (E112) B/2 : Stop lamp switch (With M/T)
- ★ (E113) GY/6 : Accelerator pedal position sensor
- (E116) -/3 : Diode (For Canada)
- (E117) W/2 : Diode (For Canada)
- (E119) B/5 : Ignition switch
- (E121) L/2 : Clutch interlock switch (With M/T)
- ★ (E122) L/2 : ASCD clutch switch (With M/T)
- (E123) BR/2 : Microphone



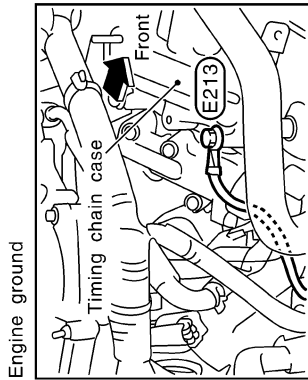
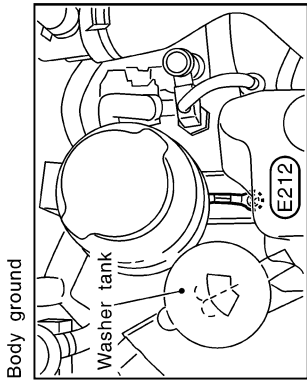
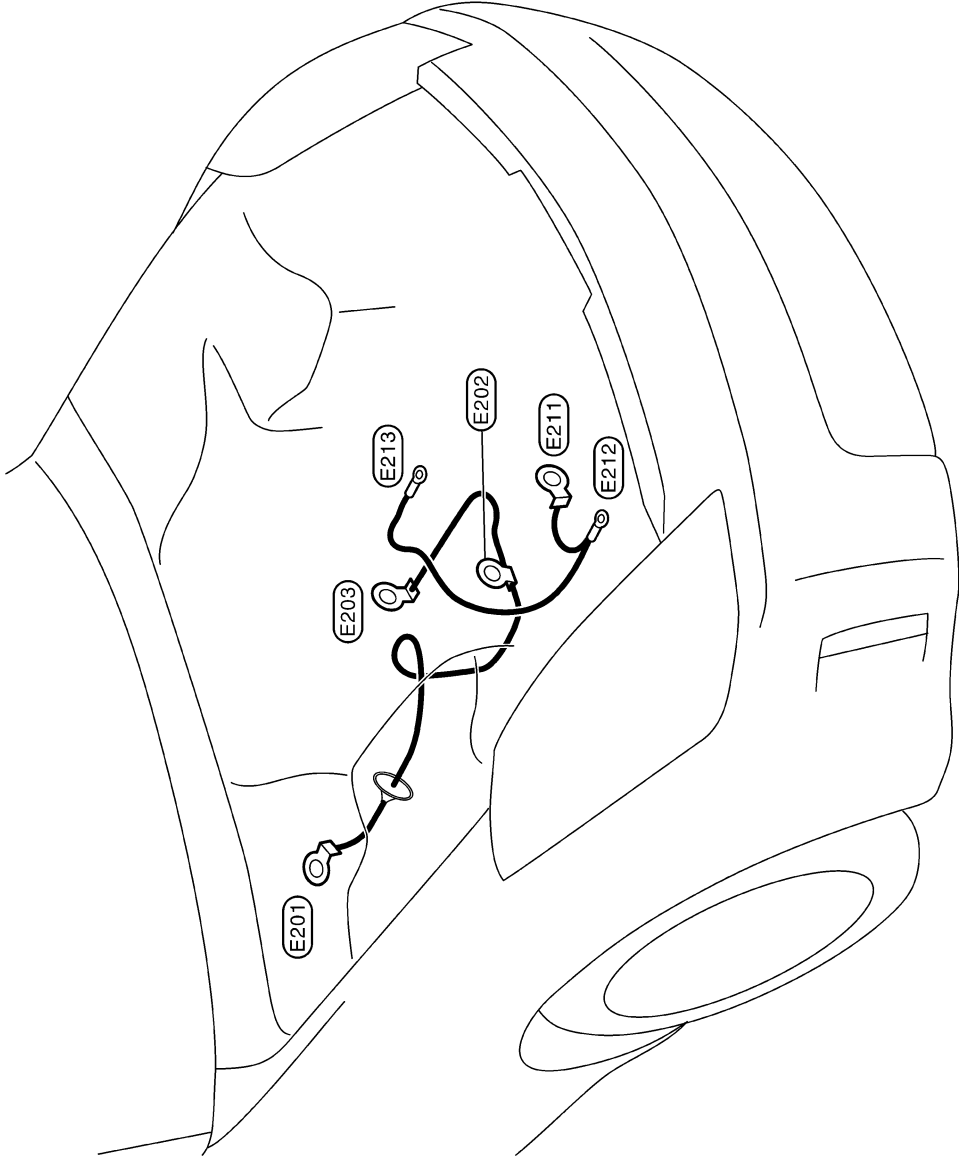
★ : Be sure to connect and lock the connectors securely after repair work.  
 Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection.

# HARNESS

## Battery Cable

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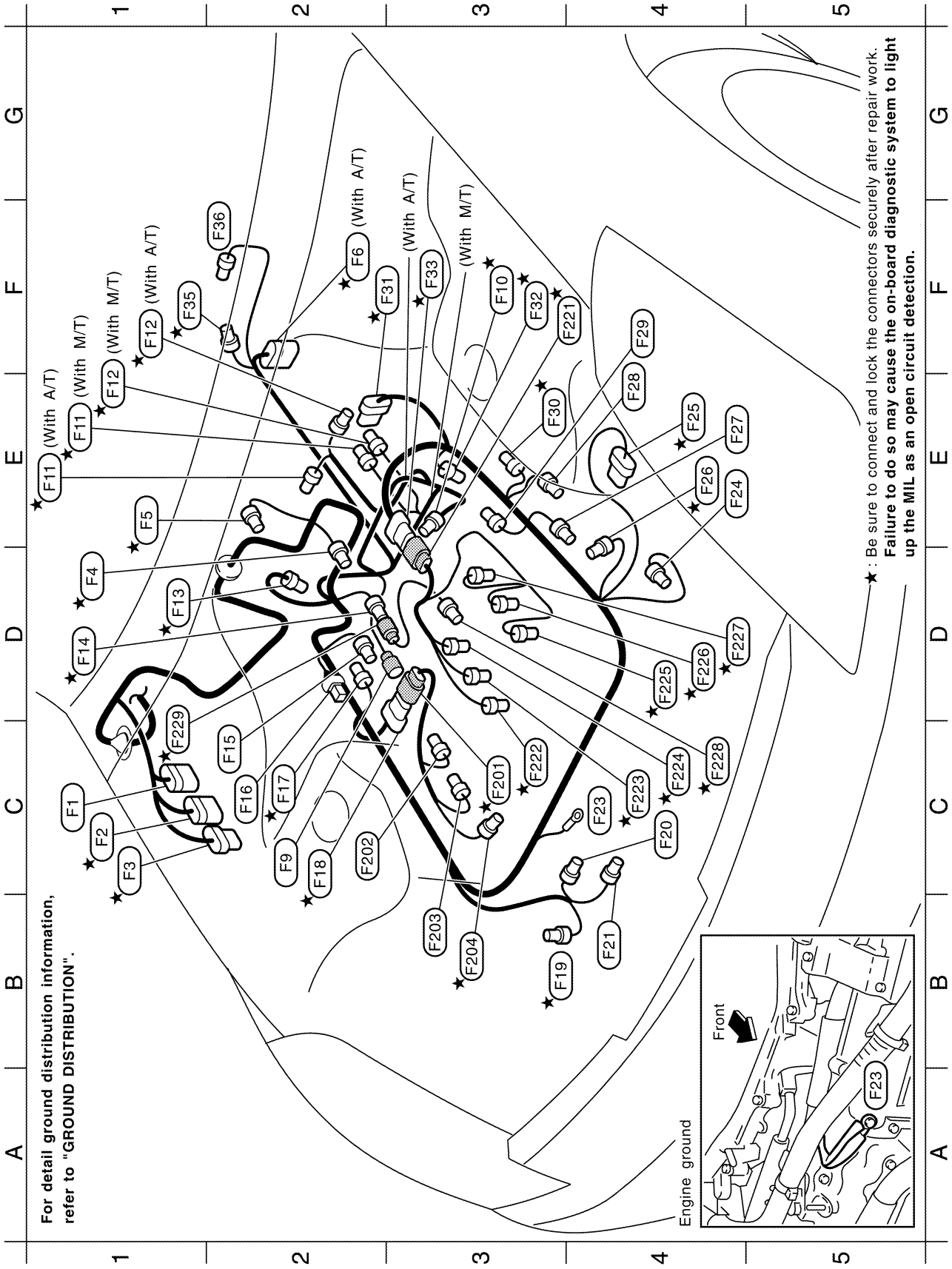
- (E201) : Fusible link holder
- (E202) : Alternator (B)
- (E203) : Starter motor
- (E211) : Alternator (E)
- (E212) : Body ground
- (E213) : Engine ground



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

# HARNESS

## ENGINE CONTROL HARNESS



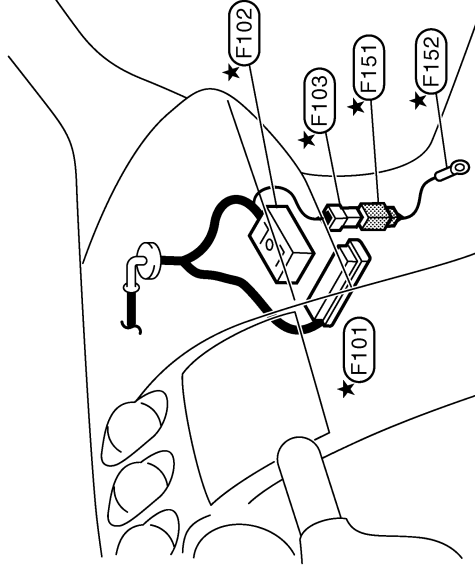
For detail ground distribution information, refer to "GROUND DISTRIBUTION".

\* : 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.

C1	(F1)	GY/9	: To (E10)
C1	(F2)	GY/10	: To (E11)
C1	(F3)	GY/8	: To (E12)
D1	(F4)	GY/3	: Camshaft position sensor (PHASE) (Bank1)
E1	(F5)	GY/2	: EVAP canister purge volume control solenoid valve
F2	(F6)	GY/10	: A/T assembly (With A/T)
C2	(F9)	GY/1	: Starter motor
F3	(F10)	B/3	: Crankshaft position sensor (POS)
E1	(F11)	B/4	: Heated oxygen sensor 2 (Bank1)
E1,F1	(F12)	GY/4	: Heated oxygen sensor 2 (Bank2)
D1	(F13)	GY/2	: Engine coolant temperature sensor
D1	(F14)	B/2	: To (F229)
C2	(F15)	GY/3	: Ignition coil No.5 (With power transistor)
C2	(F16)	W/2	: Condenser
C2	(F17)	GY/4	: Heated oxygen sensor 1 (Bank1)
C2	(F18)	B/6	: To (F201)
B3	(F19)	B/3	: Power steering pressure sensor
C4	(F20)	GY/2	: Alternator (S, L)
B4	(F21)	B/3	: Oil pressure sensor
C4	(F23)	—	: Engine ground
E4	(F24)	B/1	: Compressor
E4	(F25)	B/6	: Mass air flow sensor
E4	(F26)	GY/2	: Intake valve timing control solenoid valve (Bank2)
E4	(F27)	GY/3	: Ignition coil No.2 (With power transistor)
E4	(F28)	GY/3	: Ignition coil No.4 (With power transistor)
E4	(F29)	GY/3	: Ignition coil No.6 (With power transistor)
E3	(F30)	GY/4	: Heated oxygen sensor 1 (Bank2)
F2	(F31)	GY/6	: Electric throttle control actuator
F3	(F32)	B/3	: Camshaft position sensor (PHASE) (Bank2)
F3	(F33)	GY/8	: To (F221)
F1	(F35)	B/2	: Park/Neutral position switch (With M/T)
F2	(F36)	B/2	: Back-up lamp switch (With M/T)
<b>Engine control sub-harness-1</b>			
C3	(F201)	L/6	: To (F18)
C2	(F202)	GY/3	: Ignition coil No.3 (With power transistor)
B3	(F203)	GY/3	: Ignition coil No.1 (With power transistor)
B3	(F204)	G/2	: Intake valve timing control solenoid valve (Bank1)
<b>Engine control sub-harness-2</b>			
F3	(F221)	G/8	: To (F33)
C3	(F222)	GY/2	: Injector No.1
C4	(F223)	GY/2	: Injector No.3

C4	(F224)	GY/2	: Injector No.5
D4	(F225)	GY/2	: Injector No.2
D4	(F226)	GY/2	: Injector No.4
D4	(F227)	GY/2	: Injector No.6
C4	(F228)	L/2	: Knock sensor
C1	(F229)	SB/2	: To (F14)

## PASSENGER COMPARTMENT



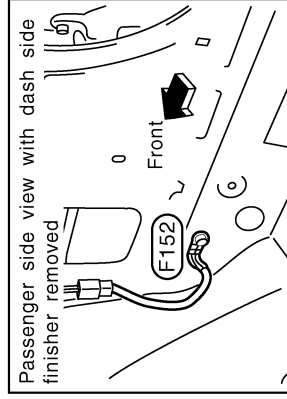
### Engine control harness

(F101)	SMJ	: ECM
(F102)	SMJ	: To (M72)
(F103)	W/4	: To (F151)

### Earth sub-harness

(F151)	W/4	: To (F103)
(F152)	—	: Body ground

Body ground

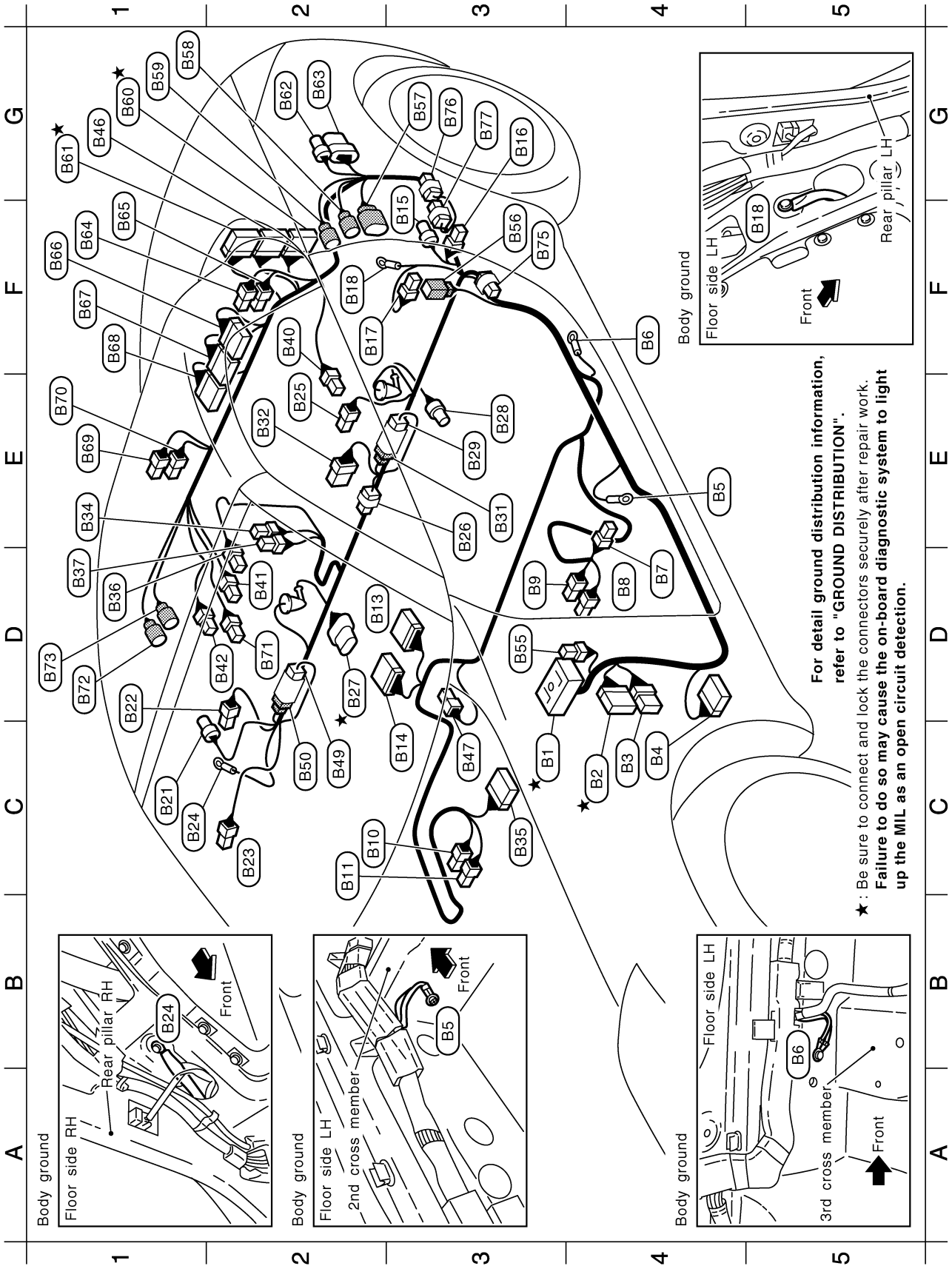


For detail ground distribution information, refer to "GROUND DISTRIBUTION".

★: 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.

# HARNESS

## BODY HARNESS



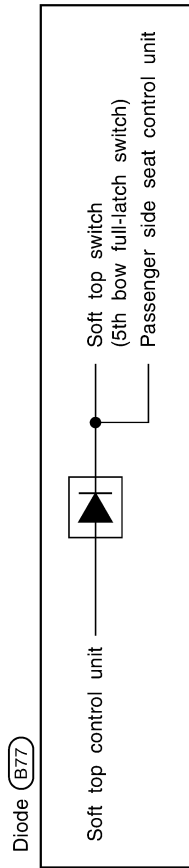
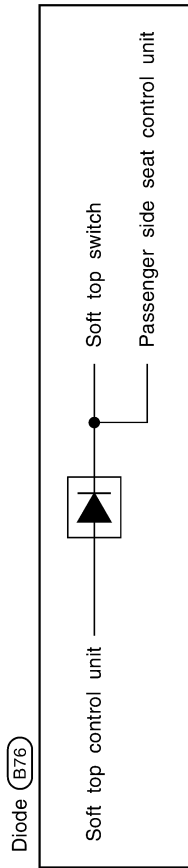
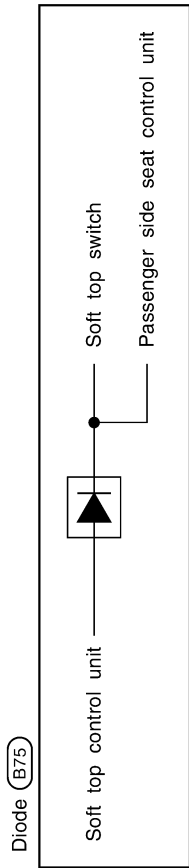
TKIM0208E



C3	★	(B1)	SMJ	:	To	(M12)	D3	(B55)	W/2	:	Circuit breaker		
C4	★	(B2)	W/18	:	To	(E106)	F3	(B56)	W/2	:	Short connector		
C4		(B3)	W/6	:	To	(E107)	G3	(B57)	B/8	:	Soft top assembly		
C4		(B4)	W/12	:	BCM	(Body control module)	G1	(B58)	B/2	:	Soft top assembly		
E4		(B5)	—	:	Body	ground	G1	(B59)	GY/2	:	Roof actuator LH		
F4		(B6)	—	:	Body	ground	G1	★	(B60)	W/20	:	To	(T22)
D4		(B7)	W/4	:	Driver	side seat	G1	★	(B61)	W/16	:	To	(T23)
D4		(B8)	W/3	:	Seat	belt buckle switch (Driver side)	G2	(B62)	GY/4	:	To	(T24)	(With BOSE system)
D3		(B9)	Y/2	:	LH	side air bag module (With side air bag)	G2	(B63)	B/6	:	To	(T25)	(With BOSE system)
C2		(B10)	Y/2	:	RH	side air bag module (With side air bag)	F1	(B64)	W/2	:	Storage	lid switch LH (Close)	
C2		(B11)	W/3	:	Seat	belt buckle switch (Passenger side)	F1	(B65)	B/2	:	Storage	lid unlock actuator LH	
D2		(B13)	Y/12	:	Air	bag diagnosis sensor unit	F1	(B66)	W/16	:	Soft	top control unit	
C3		(B14)	Y/12	:	Air	bag diagnosis sensor unit	F1	(B67)	W/20	:	Soft	top control unit	
F3		(B15)	Y/2	:	LH	side air bag (satellite) sensor (With side air bag)	F1	(B68)	W/12	:	Soft	top control unit	
G3		(B16)	Y/2	:	Seat	belt pre-tensioner LH	E1	(B69)	W/2	:	Storage	lid switch RH (Close)	
F2		(B17)	W/3	:	Driver	side door switch	E1	(B70)	B/2	:	Storage	lid unlock actuator RH	
F2		(B18)	—	:	Body	ground (With side air bag)	D2	(B71)	W/2	:	Trunk	opener cancel switch	
C1		(B21)	Y/2	:	RH	side air bag (satellite) sensor (With side air bag)	D1	(B72)	GY/2	:	Roof	actuator RH	
D1		(B22)	Y/2	:	Seat	belt pre-tensioner RH	D1	(B73)	B/2	:	Rear	window defogger (Via sub-harness)	
C2		(B23)	W/3	:	Passenger	side door switch	F3	(B75)	W/2	:	Diode		
C1		(B24)	—	:	Body	ground (With side air bag)	G3	(B76)	W/2	:	Diode		
E2		(B25)	W/2	:	Woofers	(With BOSE system)	G3	(B77)	W/2	:	Diode		
E3		(B26)	W/2	:	Condenser								
D2	★	(B27)	GY/5	:	Fuel	level sensor unit and fuel pump							
E3		(B28)	GY/2	:	Fuel	level sensor unit (Sub)							
E3		(B29)	W/2	:	To	(B31)							
E3		(B31)	W/2	:	To	(B29)							
E2		(B32)	BR/8	:	Woofers	amp. (With BOSE system)							
E1		(B34)	BR/6	:	Rear	window defogger relay							
C3		(B35)	W/18	:	Passenger	side seat							
D1		(B36)	B/2	:	Power	socket							
D1		(B37)	L/4	:	Heated	seat relay (With heated seat or side air bag)							
F2		(B40)	BR/2	:	Rear	speaker LH							
D2		(B41)	W/2	:	Luggage	floor box lamp							
D2		(B42)	BR/2	:	Rear	speaker RH							
G1		(B46)	BR/20	:	To	(T4) (With BOSE system)							
C3		(B47)	B/1	:	Parking	brake switch							
C2		(B49)	BR/2	:	To	(B50)							
C2		(B50)	BR/2	:	To	(B49)							

★ : 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.**

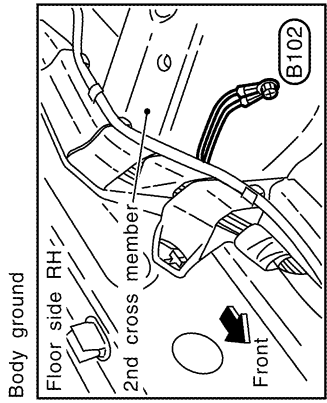
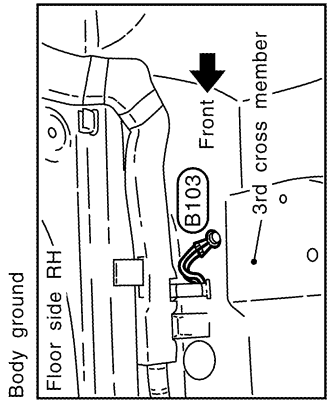
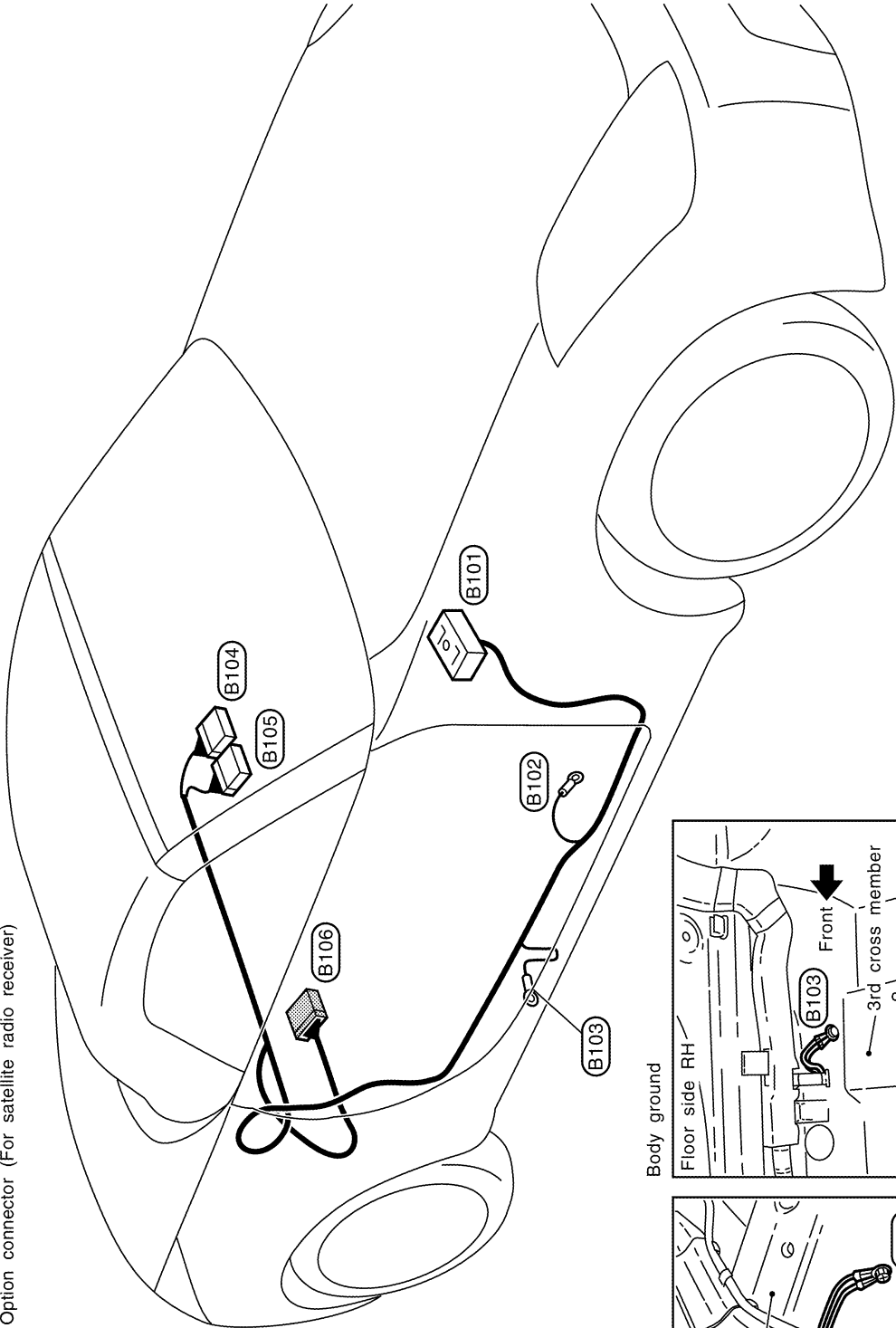
# HARNESS



# HARNESS

## BODY NO.2 HARNESS

- (B101) SMJ : To (M73)
- (B102) — : Body ground
- (B103) — : Body ground
- (B104) W/24 : NAVI control unit
- (B105) GY/24 : NAVI control unit
- (B106) W/12 : Option connector (For satellite radio receiver)



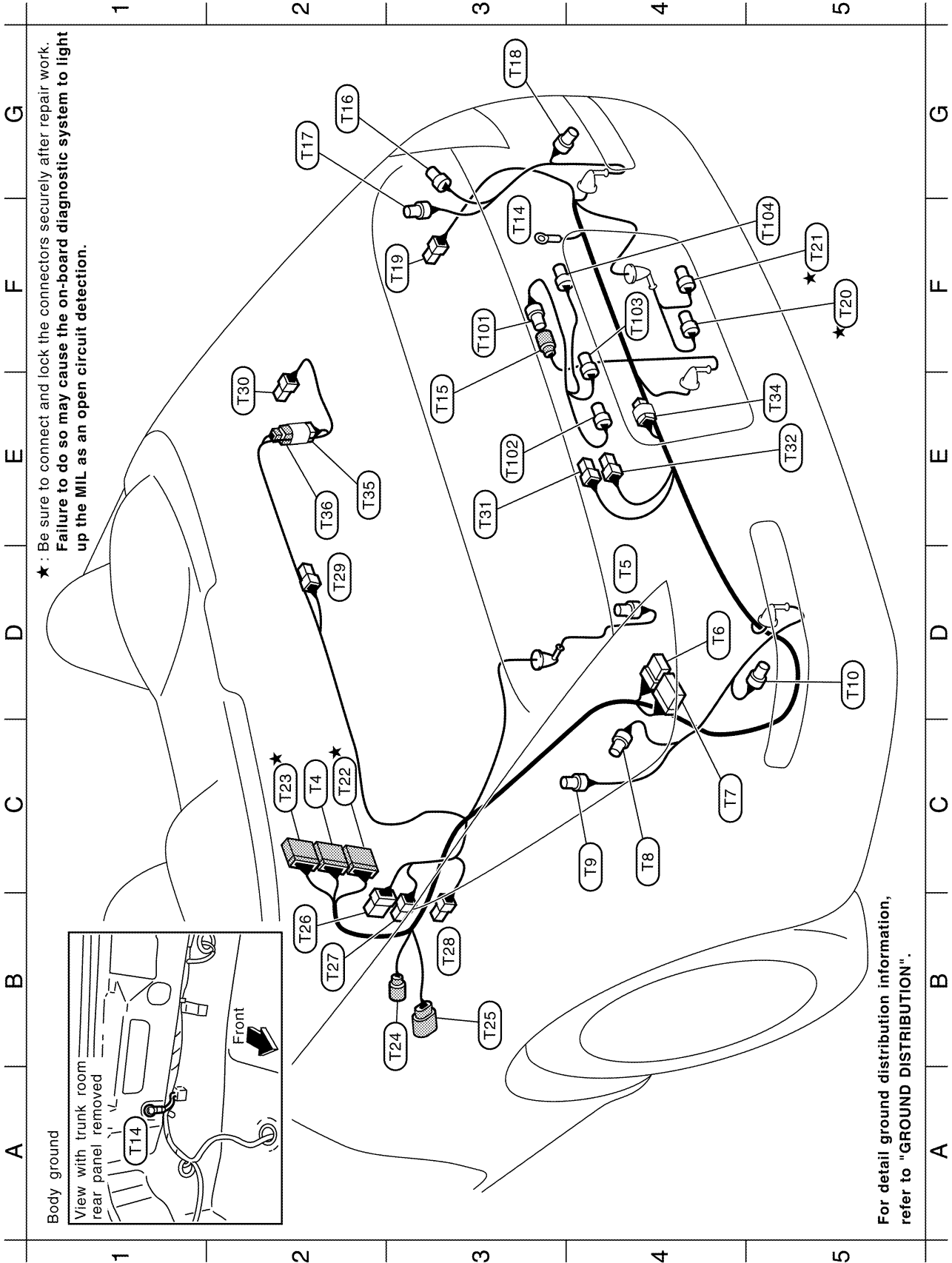
For detail ground distribution information, refer to "GROUND DISTRIBUTION".

TKIT0110E

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# HARNESS

## TAIL HARNESS



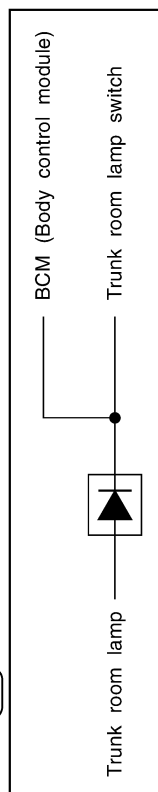
TKT0111E

C2	T4	BR/20	: To B46 (With BOSE system)
D4	T5	SB/4	: Rear wheel sensor
D4	T6	GY/8	: BOSE speaker amp. (With BOSE system)
C4	T7	B/24	: BOSE speaker amp. (With BOSE system)
C4	T8	GY/2	: Rear combination lamp LH (Body side)
C4	T9	GY/3	: Rear combination lamp LH (Body side)
D5	T10	SB/4	: Rear combination lamp LH (Bumper side)
F3	T14	—	: Body ground
E3	T15	GY/4	: To T101
G2	T16	GY/2	: Rear combination lamp RH (Body side)
G2	T17	GY/3	: Rear combination lamp RH (Body side)
G3	T18	SB/4	: Rear combination lamp RH (Bumper side)
F3	T19	W/4	: Fuel lid opener actuator
F5	T20	B/2	: EVAP canister vent control valve
F5	T21	GY/3	: EVAP control system pressure sensor
C2	T22	W/20	: To B60
C2	T23	W/16	: To B61
B3	T24	GY/4	: To B62 (With BOSE system)
B3	T25	B/6	: To B63 (With BOSE system)
B2	T26	W/8	: To T151
B2	T27	B/2	: Storage lid switch (Open)
B3	T28	W/2	: Storage lid actuator LH
D2	T29	W/2	: Trunk room lamp
E2	T30	W/2	: Storage lid actuator RH
E3	T31	W/2	: Trunk room lamp switch
E5	T32	B/2	: Trunk lid opener actuator
E5	T34	W/2	: Diode
E2	T35	W/2	: To T36
E2	T36	W/2	: To T35

## Tail sub-harness-1

F3	T101	GY/4	: To T15
E3	T102	BR/2	: License plate lamp LH
F4	T103	GY/2	: Trunk lid opener switch
F5	T104	BR/2	: License plate lamp RH

Diode T34



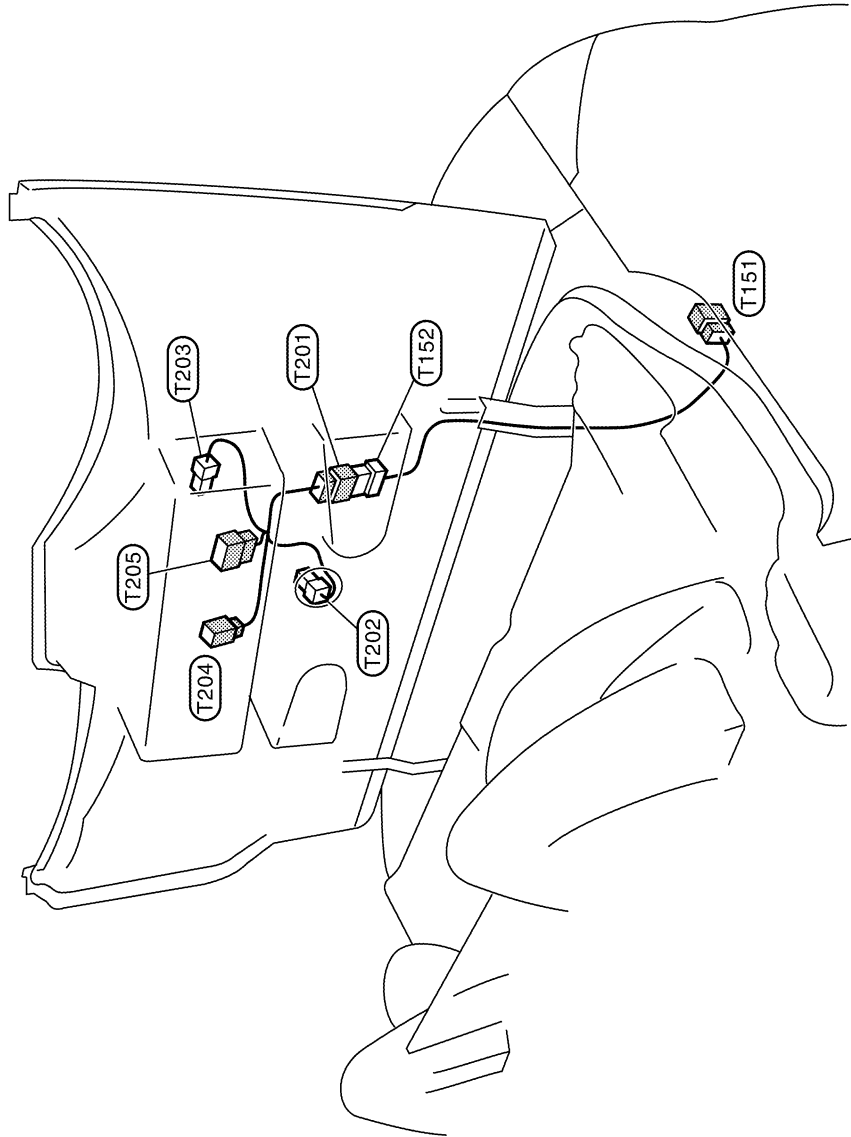
★ : Be sure to connect and lock the connectors securely after repair work.  
**Failure to do so may cause the on-board diagnostic system to light up the MIL as an open circuit detection.**

# HARNESS

## TAIL NO.2 HARNESS

**Tail No.2 harness**  
(T201) W/8 : To (T152)  
(T202) BR/2 : High-mounted stop lamp  
(T203) W/4 : 5th bow unlock actuator  
(T204) B/2 : 5th bow closure motor  
(T205) W/6 : Soft top lock switch

**Tail sub-harness-2**  
(T151) W/8 : To (T26)  
(T152) W/8 : To (T201)



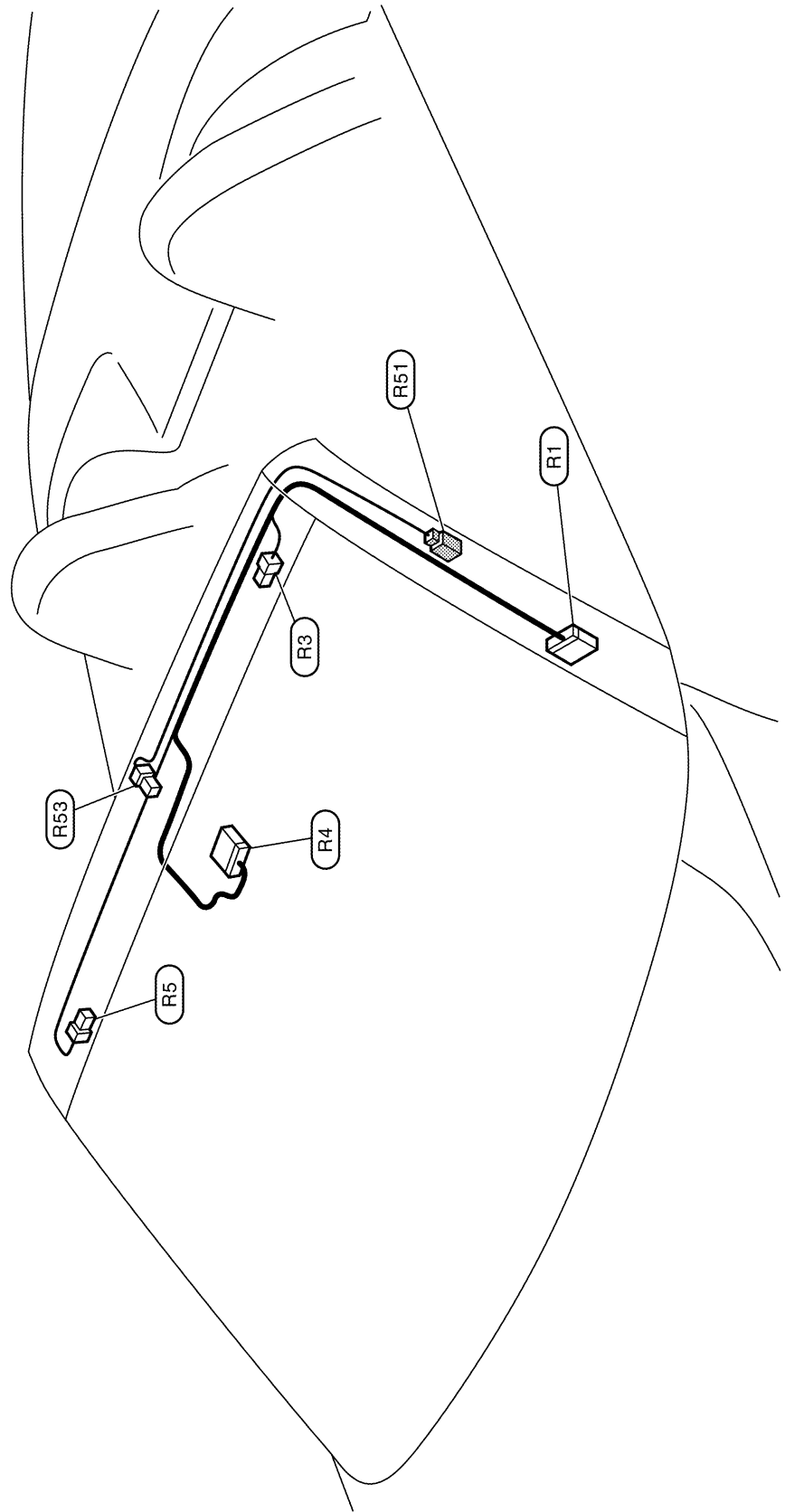
# HARNESS

## ROOM LAMP HARNESS

### Room lamp sub-harness

(R51) W/4 : To (M70)  
(R63) W/4 : Map lamp

(R1) W/10 : To (M69)  
(R3) W/2 : Vanity mirror lamp (Driver side)  
(R4) B/10 : Auto anti-dazzling inside mirror  
(R5) W/2 : Vanity mirror lamp (Passenger side)



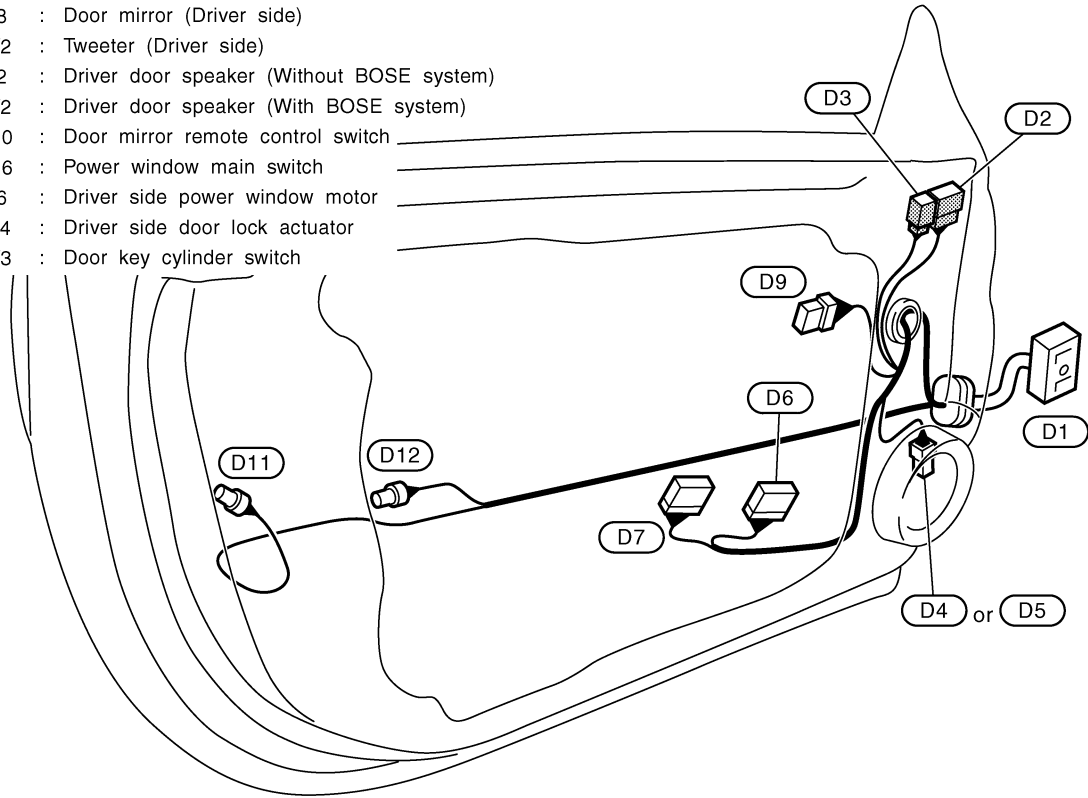
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# HARNESS

## DOOR HARNESS

### Driver Side Door

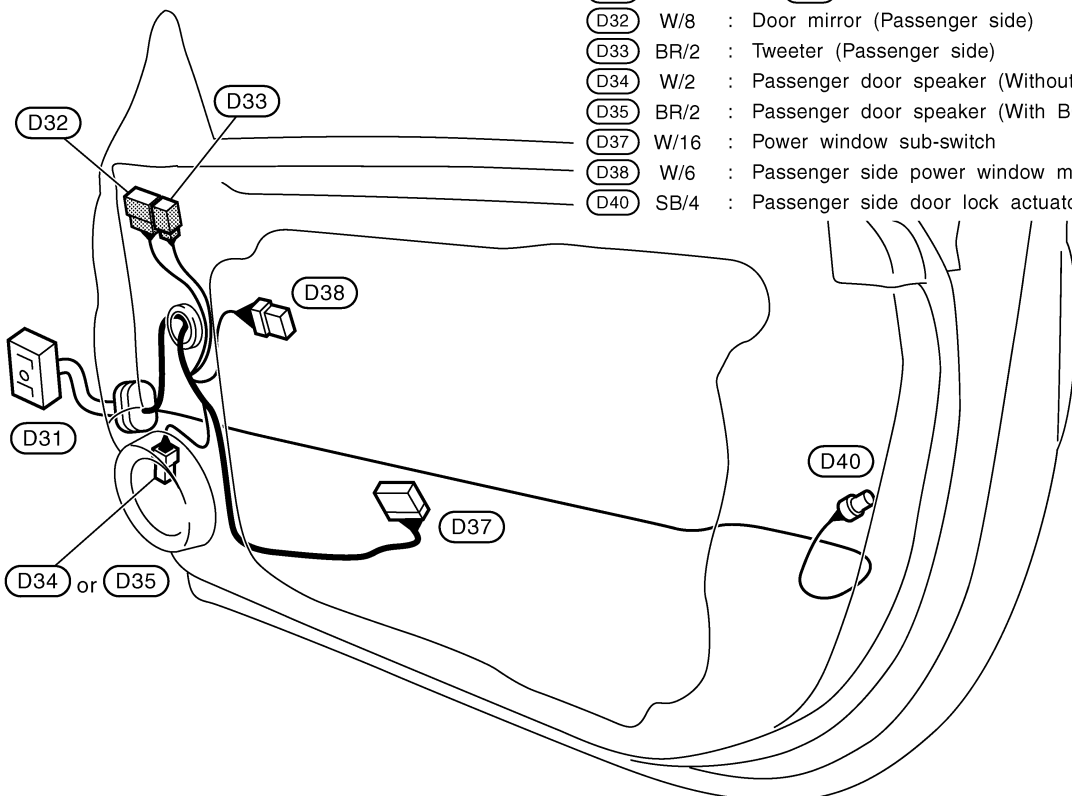
- (D1) SMJ : To (M11)
- (D2) W/8 : Door mirror (Driver side)
- (D3) BR/2 : Tweeter (Driver side)
- (D4) W/2 : Driver door speaker (Without BOSE system)
- (D5) BR/2 : Driver door speaker (With BOSE system)
- (D6) W/10 : Door mirror remote control switch
- (D7) W/16 : Power window main switch
- (D9) W/6 : Driver side power window motor
- (D11) SB/4 : Driver side door lock actuator
- (D12) BR/3 : Door key cylinder switch



TKIM0204E

### Passenger Side Door

- (D31) SMJ : To (M74)
- (D32) W/8 : Door mirror (Passenger side)
- (D33) BR/2 : Tweeter (Passenger side)
- (D34) W/2 : Passenger door speaker (Without BOSE system)
- (D35) BR/2 : Passenger door speaker (With BOSE system)
- (D37) W/16 : Power window sub-switch
- (D38) W/6 : Passenger side power window motor
- (D40) SB/4 : Passenger side door lock actuator



TKIM0205E



# HARNESS

## Wiring Diagram Codes (Cell Codes)

AKS0012R

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
A/C	ATC	Air Conditioner
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
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	Electric Throttle Control Function
ETC2	EC	Electric Throttle Control Motor Relay
ETC3	EC	Electric 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 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
HORN	WW	Horn
HSEAT	SE	Heated Seat
IATS	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System

# HARNESSES

Code	Section	Wiring Diagram Name
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	Heated Oxygen Sensor 2 Heater Bank 1
O2H2B2	EC	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	Heated Oxygen Sensor 2 Bank 1
O2S2B2	EC	Heated Oxygen Sensor 2 Bank 2
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve
PHSB1	EC	Camshaft Position Sensor (PHASE) (Bank1)
PHSB2	EC	Camshaft Position Sensor (PHASE) (Bank2)
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
START	SC	Starting System

# HARNESSES

Code	Section	Wiring Diagram Name	
STOP/L	LT	Stop Lamp	A
STSIG	AT	Starting Signal Circuit	
TAIL/L	LT	Parking, License and Tail Lamps	B
TCS	BRC	Traction Control System	
TLID	BL	Trunk Lid Opener	
TPS1	EC	Throttle Position Sensor (Sensor 1)	C
TPS2	EC	Throttle Position Sensor (Sensor 2)	
TPS3	EC	Throttle Position Sensor	D
TRANSCV	BL	Homelink Universal Transceiver	
TURN	LT	Turn Signal and Hazard Warning Lamp	
VEHSEC	BL	Vehicle Security System	E
VENT/V	EC	EVAP Canister Vent Control Valve	
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)	F
WARN	DI	Warning Lamps	
WINDOW	GW	Power Window	
WIPER	WW	Front Wiper and Washer	G

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PG

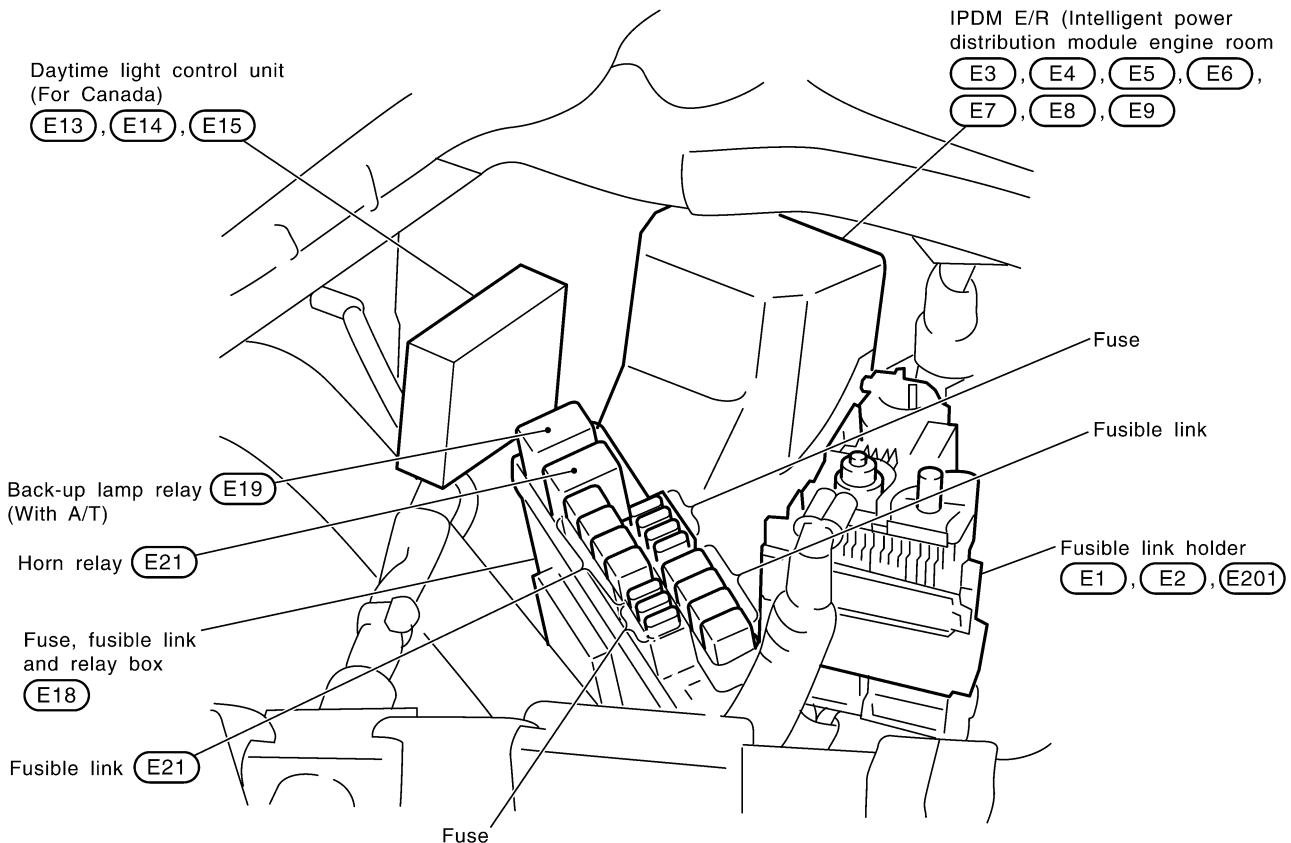
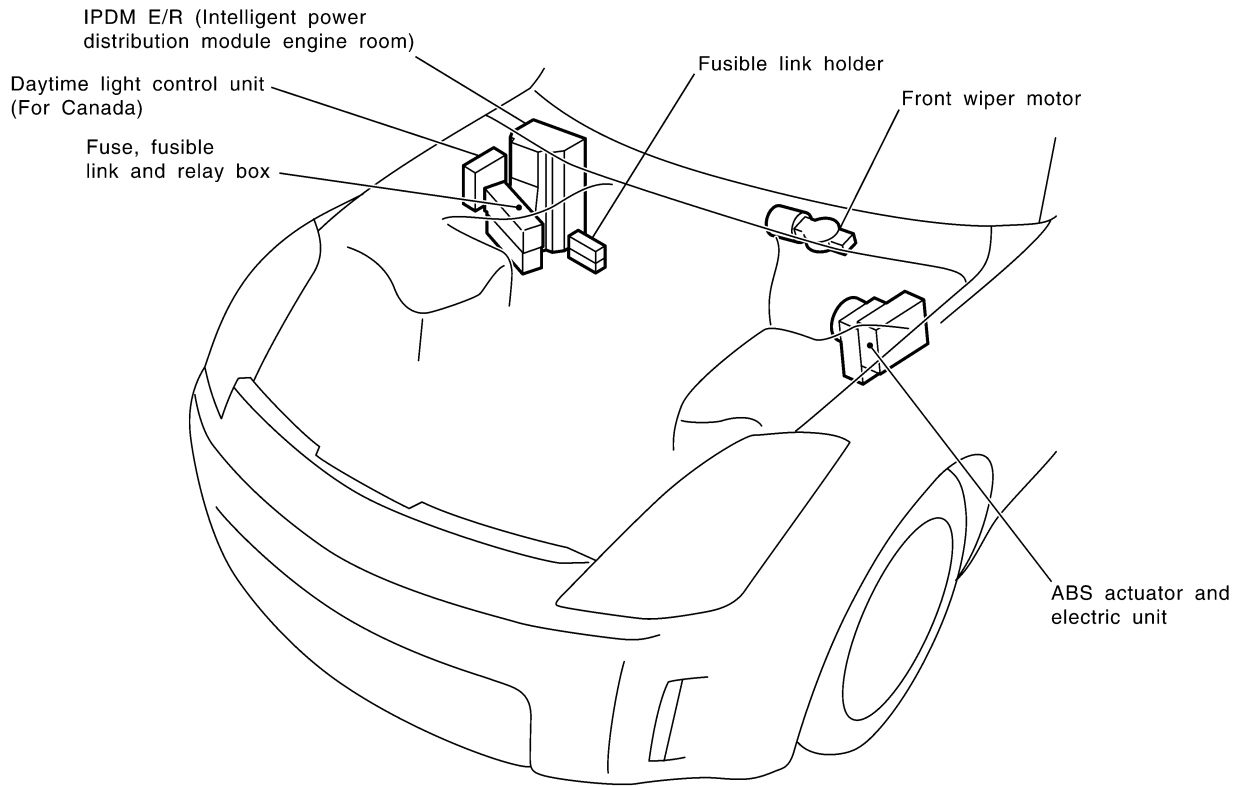
# ELECTRICAL UNITS LOCATION

## ELECTRICAL UNITS LOCATION

PFP:25230

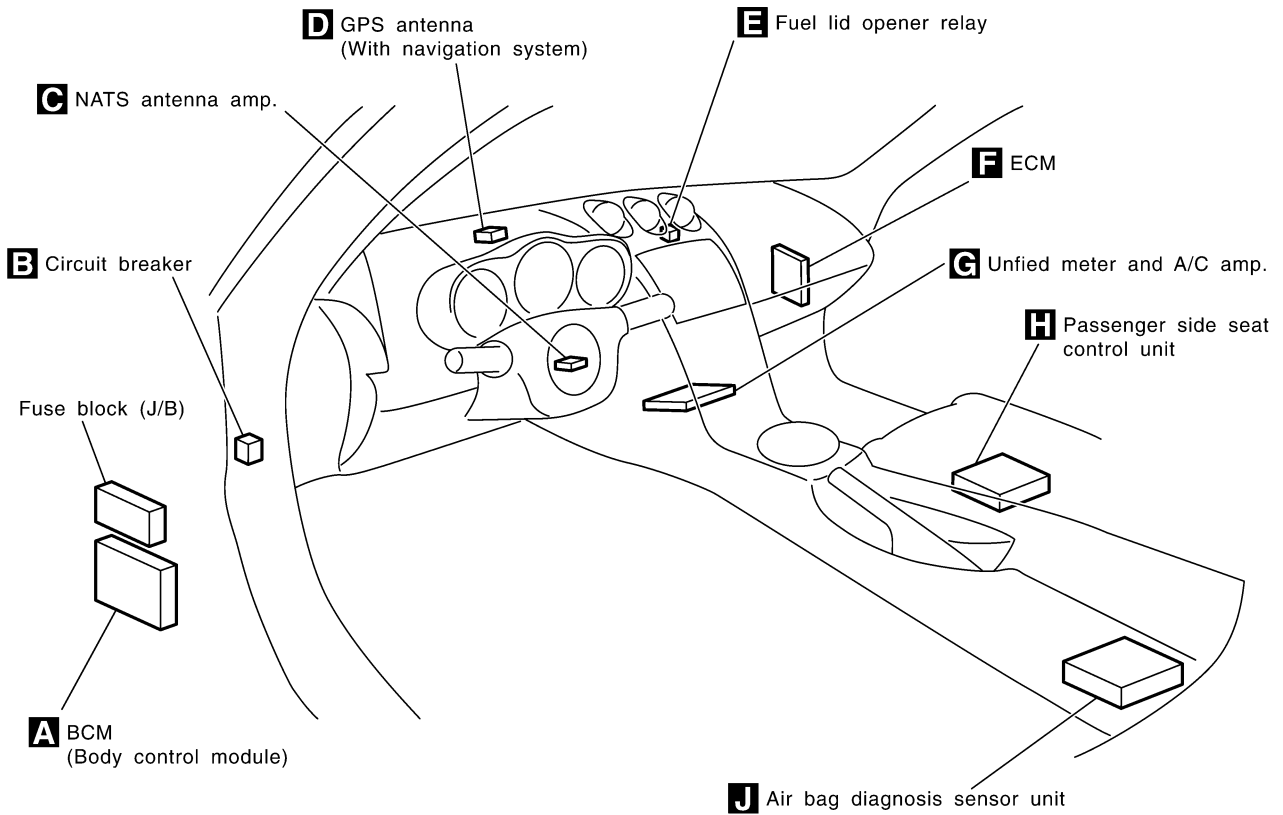
### Electrical Units Location ENGINE COMPARTMENT

AKS0012S

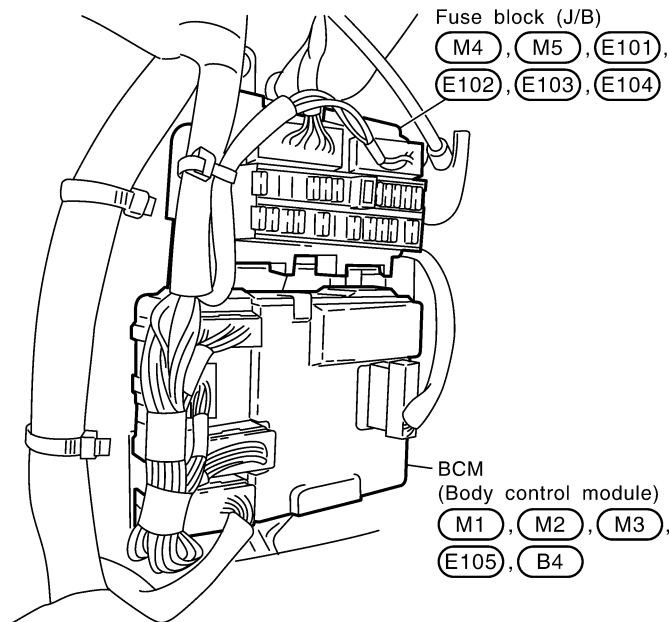


# ELECTRICAL UNITS LOCATION

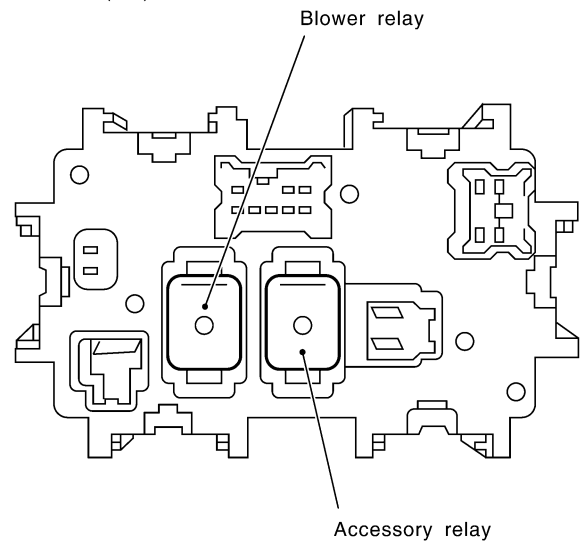
## PASSENGER COMPARTMENT



**A** Behind the dash side lower LH finisher



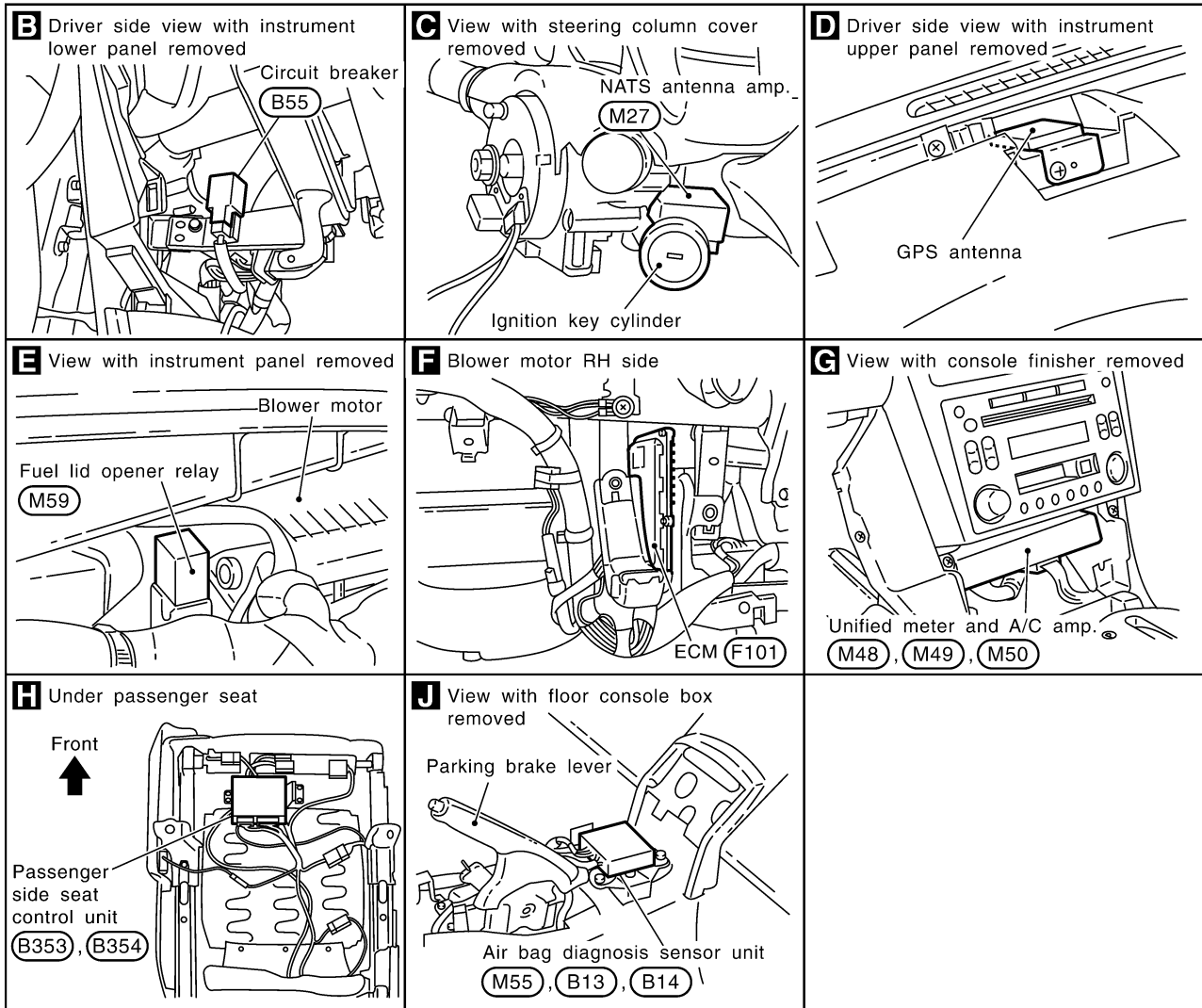
Fuse block (J/B) rear view



A  
B  
C  
D  
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G  
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I  
J

PG  
L  
M

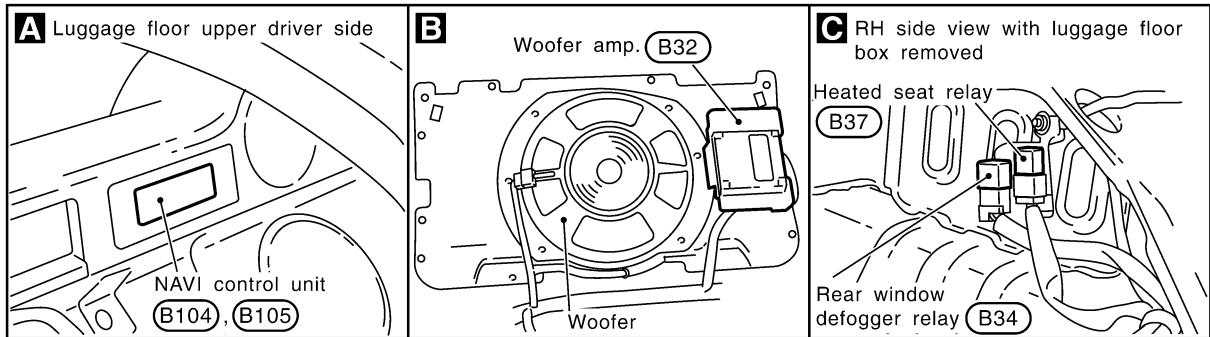
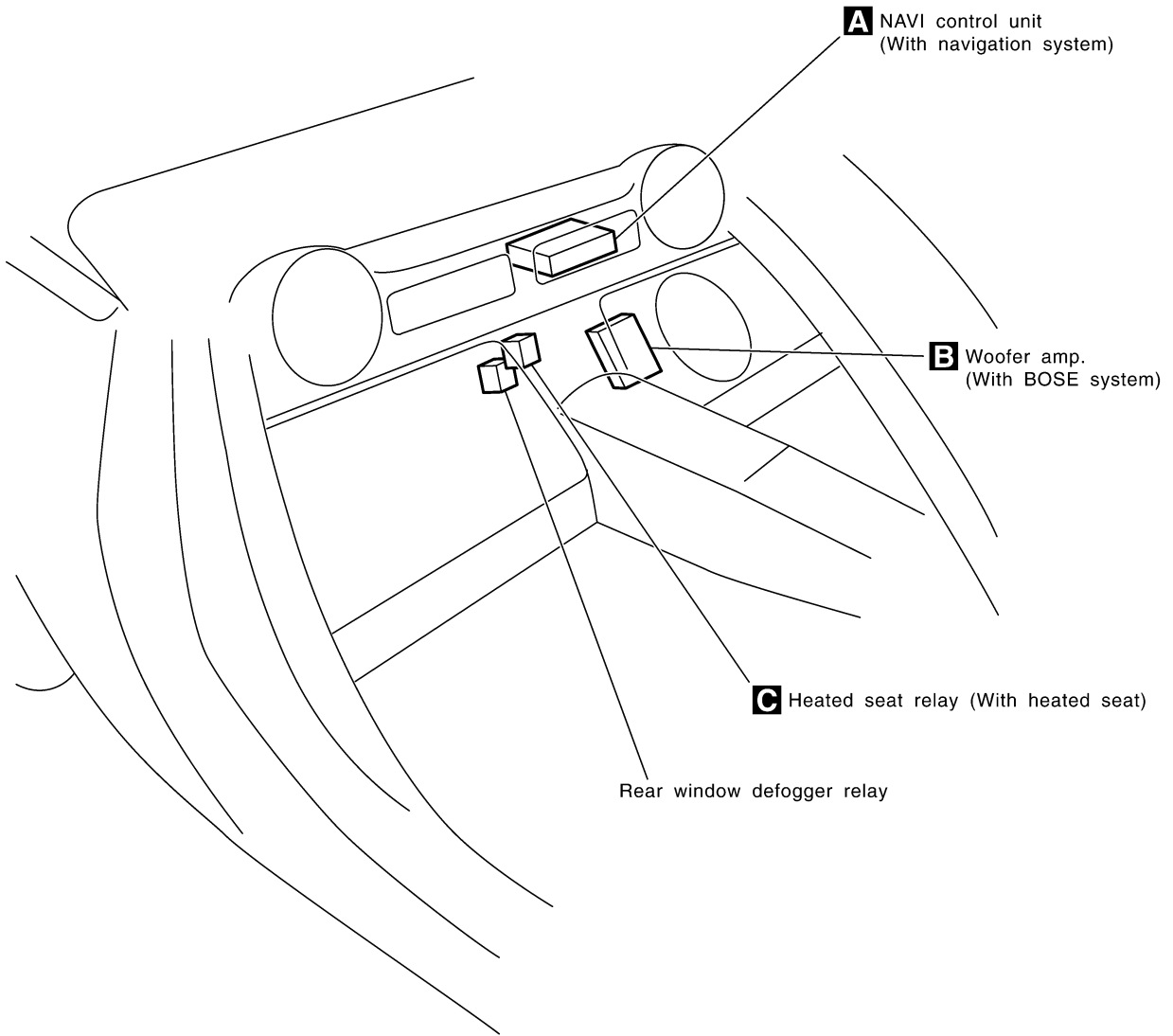
# ELECTRICAL UNITS LOCATION



CKIT0348E

# ELECTRICAL UNITS LOCATION

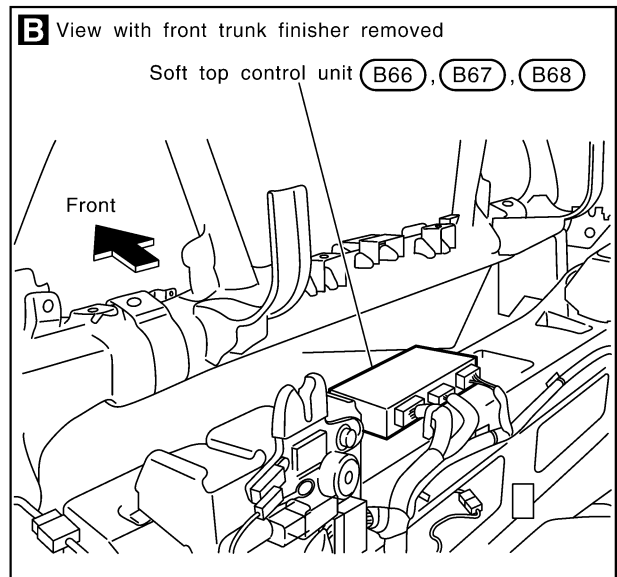
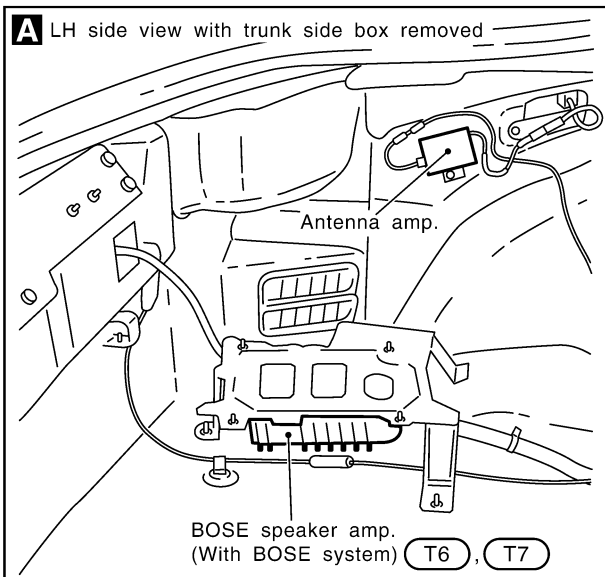
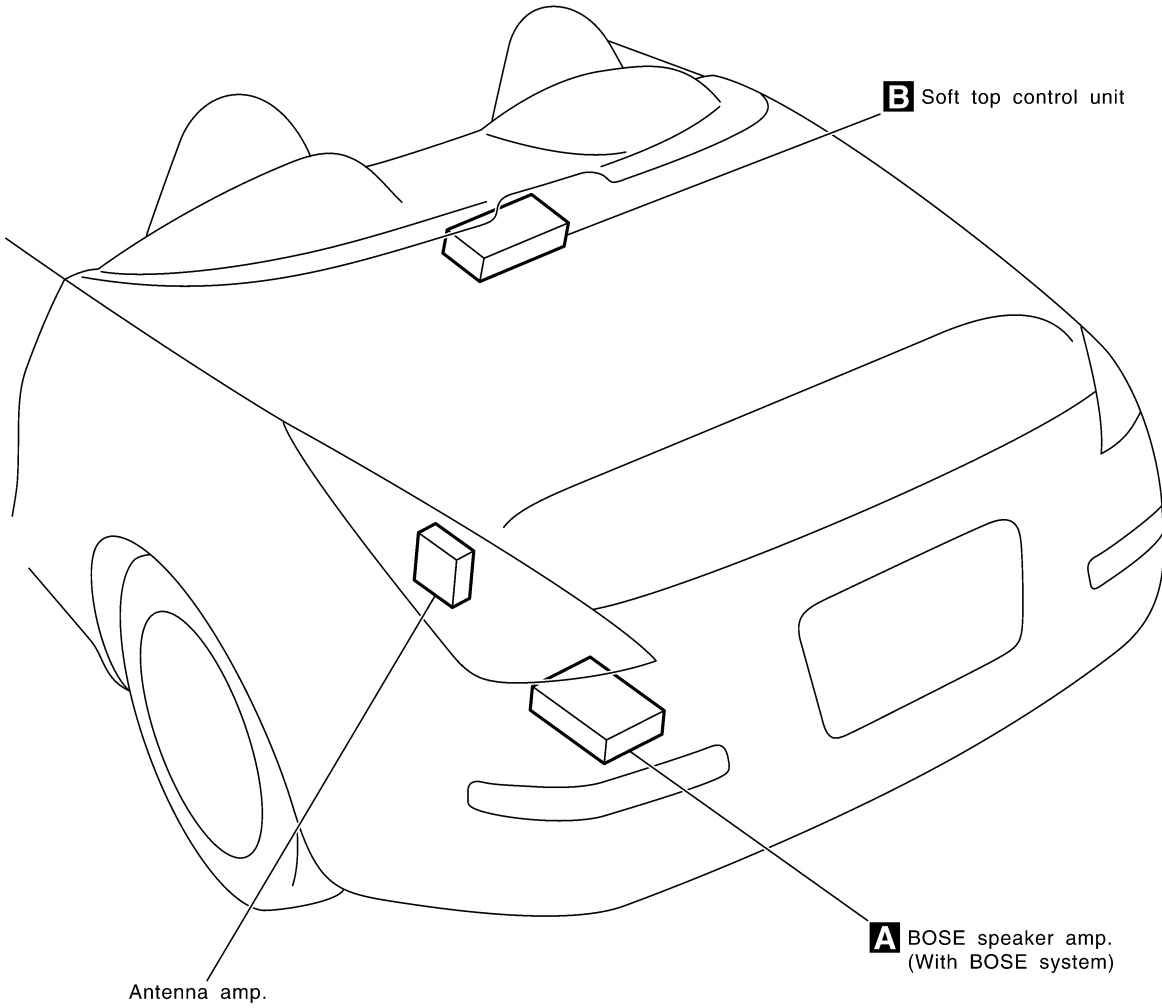
A  
B  
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J  
PG  
L  
M



CKIT0349E

# ELECTRICAL UNITS LOCATION

## LUGGAGE COMPARTMENT



CKIT0350E



# HARNESS CONNECTOR

## HARNESS CONNECTOR

PFP:00011

### Description

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

AKS0012T

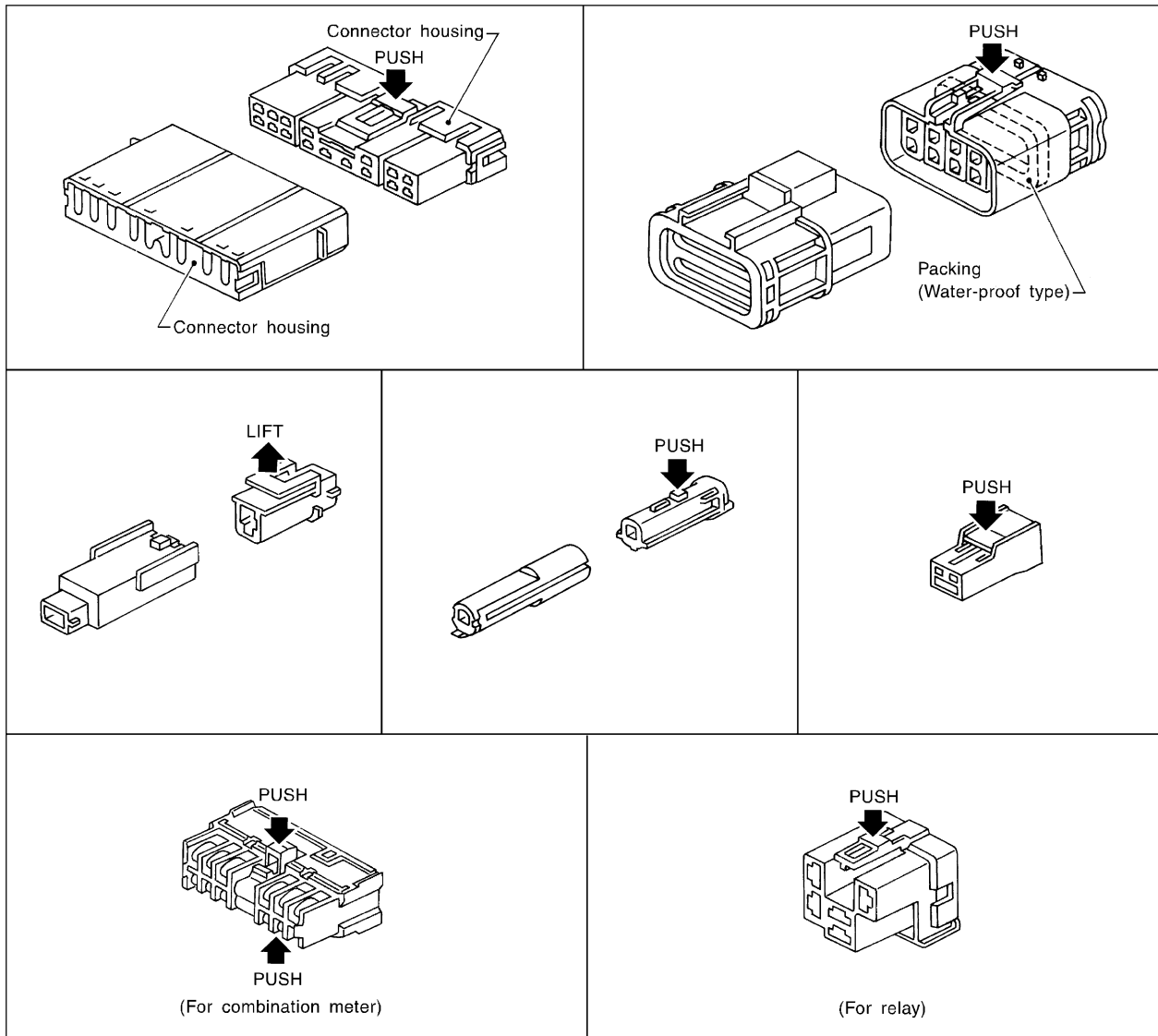
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

#### CAUTION:

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

[Example]



A  
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L  
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# HARNESS CONNECTOR

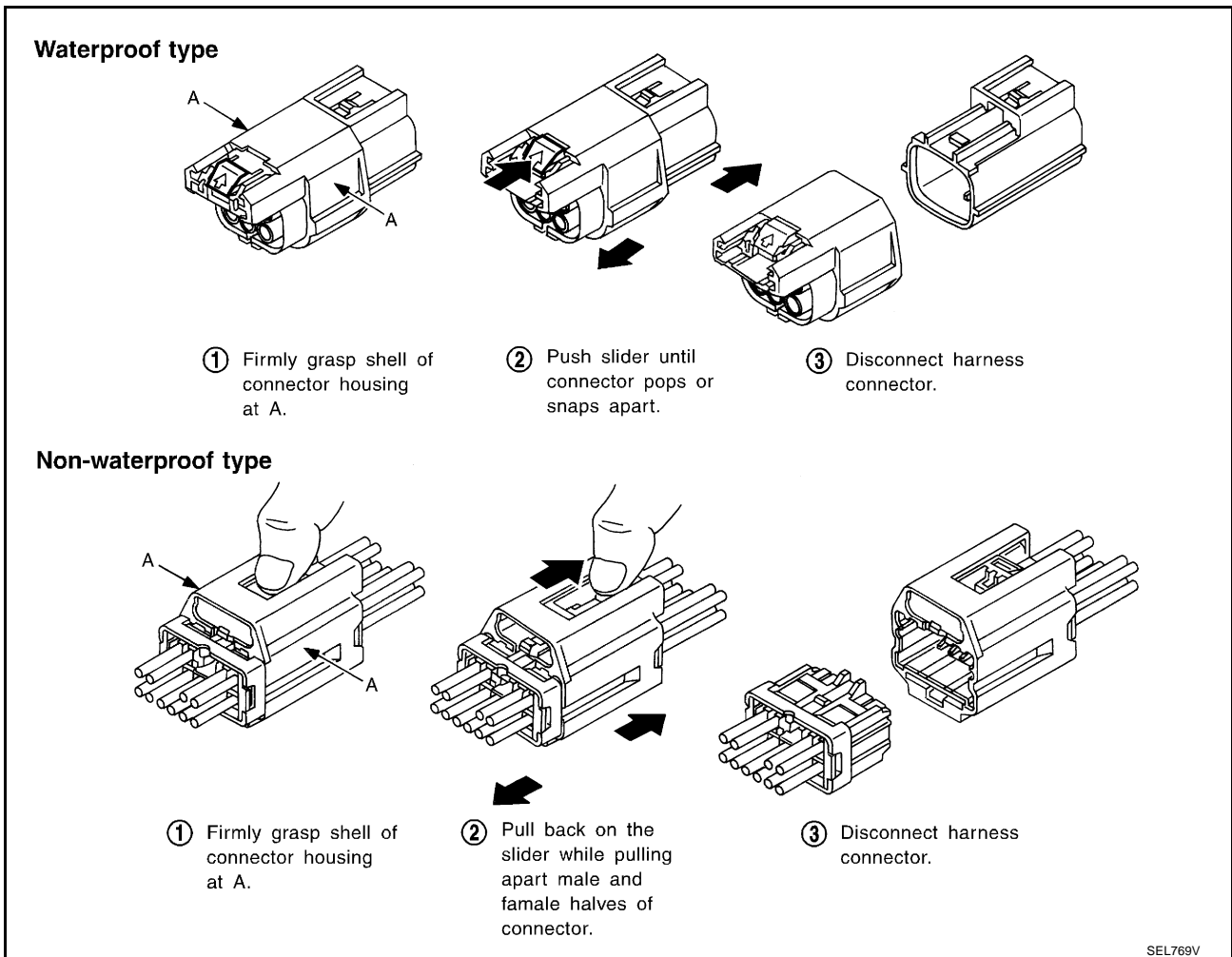
## HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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

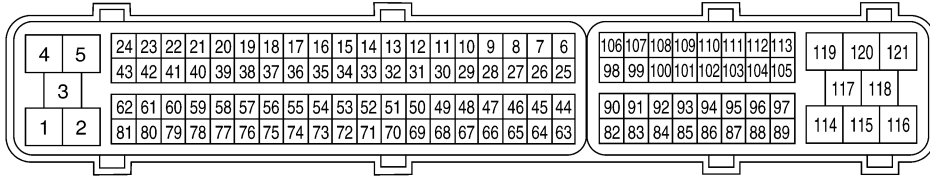
## ELECTRICAL UNITS Terminal Arrangement

PPF:00011

AKS0012V

ECM

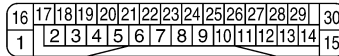
**F101**



(Black)

### ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

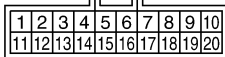
**E51**



(Gray)

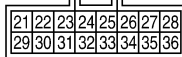
### UNIFIED METER AND A/C AMP.

**M48**



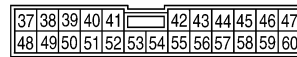
(Gray)

**M49**



(Gray)

**M50**



(White)

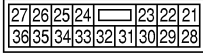


A  
B  
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I  
J  
PG  
L  
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# ELECTRICAL UNITS

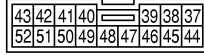
## BCM (BODY CONTROL MODULE)

M1



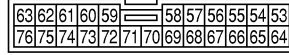
(White)

M2



(White)

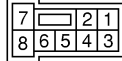
M3



(Brown)

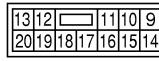


E105



(White)

B4



(White)



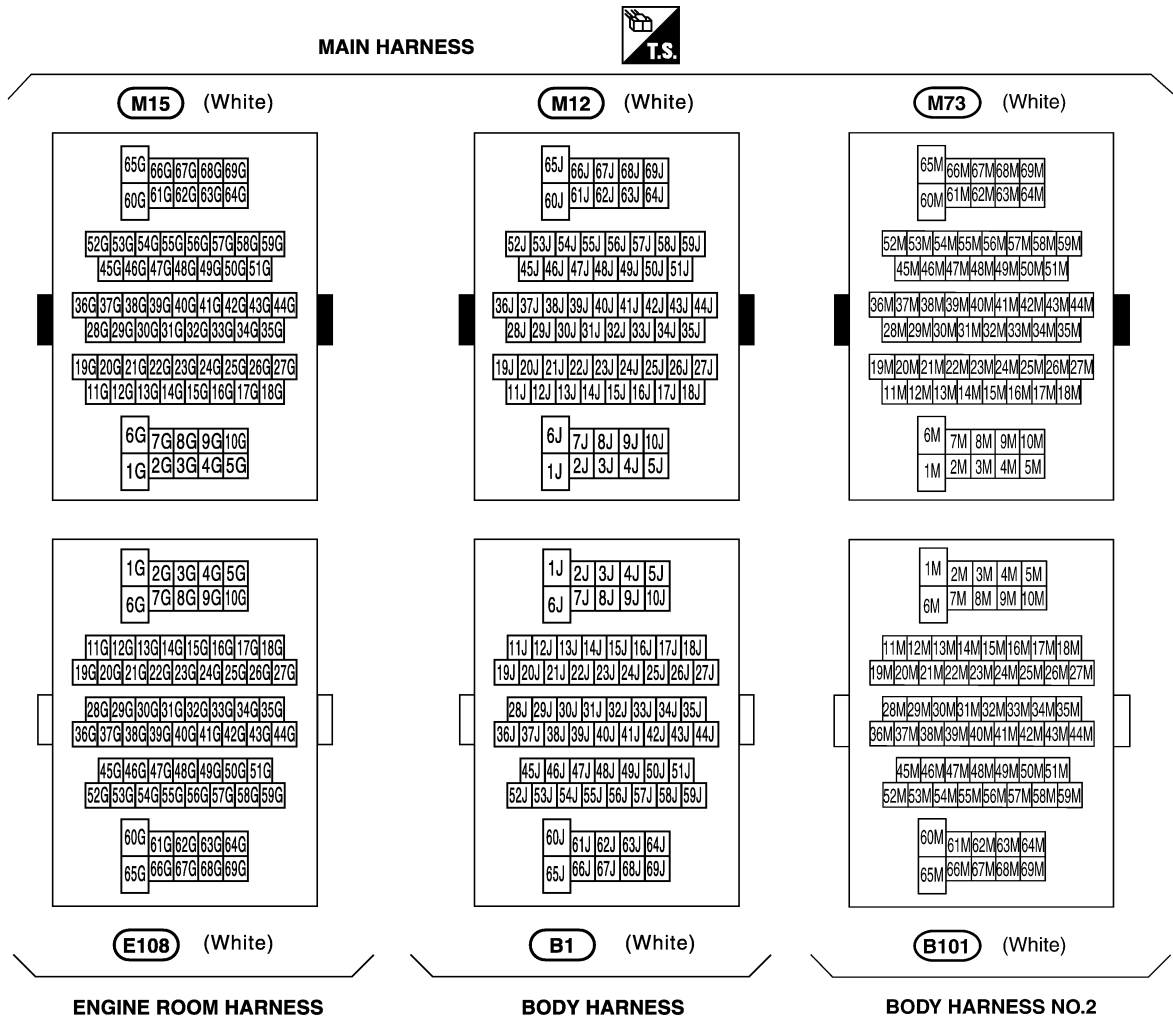
# SMJ (SUPER MULTIPLE JUNCTION)

## SMJ (SUPER MULTIPLE JUNCTION)

PFP:B4341

### Terminal Arrangement

AKS0012W



A  
B  
C  
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E  
F  
G  
H  
I  
J  
PG  
L  
M

# SMJ (SUPER MULTIPLE JUNCTION)



## MAIN HARNESS

**M72** (White)

6H	7H	8H	9H	10H	21H	22H	23H	24H	25H	26H	27H	28H	29H	39H	40H	41H	42H	43H	44H	45H	46H		
1H	2H	3H	4H	5H	11H	12H	13H	14H	15H	16H	17H	18H	19H	20H	30H	31H	32H	33H	34H	35H	36H	37H	38H

1H	2H	3H	4H	5H	11H	12H	13H	14H	15H	16H	17H	18H	19H	20H	30H	31H	32H	33H	34H	35H	36H	37H	38H
6H	7H	8H	9H	10H	21H	22H	23H	24H	25H	26H	27H	28H	29H	39H	40H	41H	42H	43H	44H	45H	46H		

**F102** (White)

## ENGINE CONTROL HARNESS



## MAIN HARNESS

**M11** (White)

20K	21K	22K	23K	24K	25K	26K	27K	36K	37K	38K	39K		
11K	12K	13K	14K	15K	16K	17K	18K	19K	32K	33K	34K	35K	
1K	2K	3K	4K	5K	6K	7K	8K	9K	10K	28K	29K	30K	31K

**M74** (White)

20L	21L	22L	23L	24L	25L	26L	27L	36L	37L	38L	39L		
11L	12L	13L	14L	15L	16L	17L	18L	19L	32L	33L	34L	35L	
1L	2L	3L	4L	5L	6L	7L	8L	9L	10L	28L	29L	30L	31L

**D1** (White)

1K	2K	3K	4K	5K	6K	7K	8K	9K	10K	28K	29K	30K	31K
11K	12K	13K	14K	15K	16K	17K	18K	19K	32K	33K	34K	35K	
20K	21K	22K	23K	24K	25K	26K	27K	36K	37K	38K	39K		

**D31** (White)

1L	2L	3L	4L	5L	6L	7L	8L	9L	10L	28L	29L	30L	31L
11L	12L	13L	14L	15L	16L	17L	18L	19L	32L	33L	34L	35L	
20L	21L	22L	23L	24L	25L	26L	27L	36L	37L	38L	39L		

## FRONT DOOR HARNESS (DRIVER SIDE)

## FRONT DOOR HARNESS (PASSENGER SIDE)

# STANDARDIZED RELAY

PFP:00011

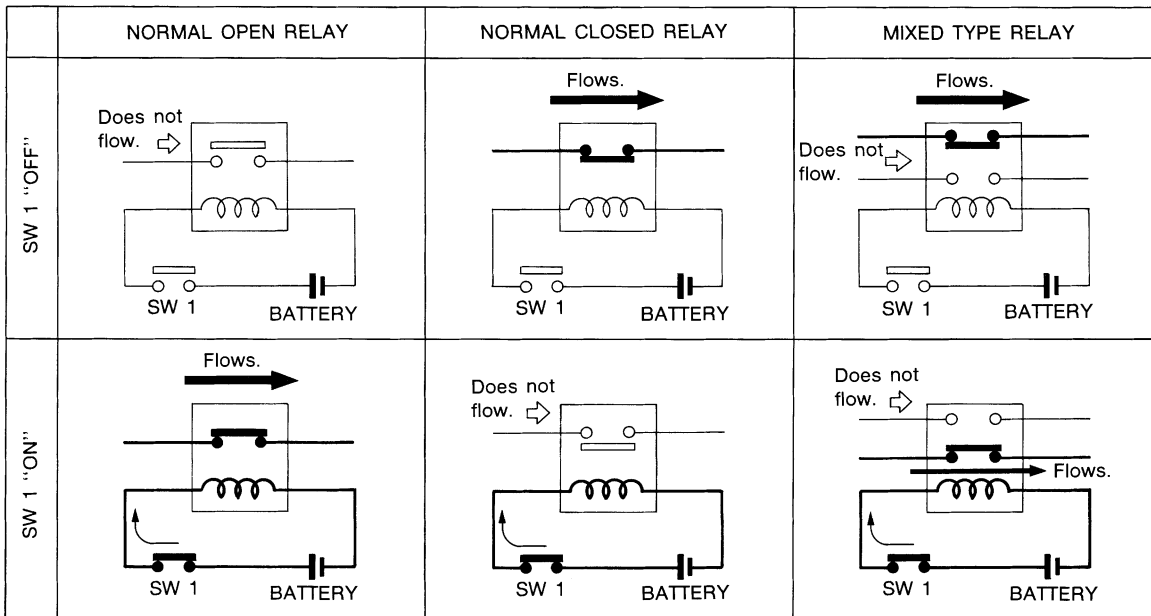
AKS0012X

## STANDARDIZED RELAY

### Description

#### NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

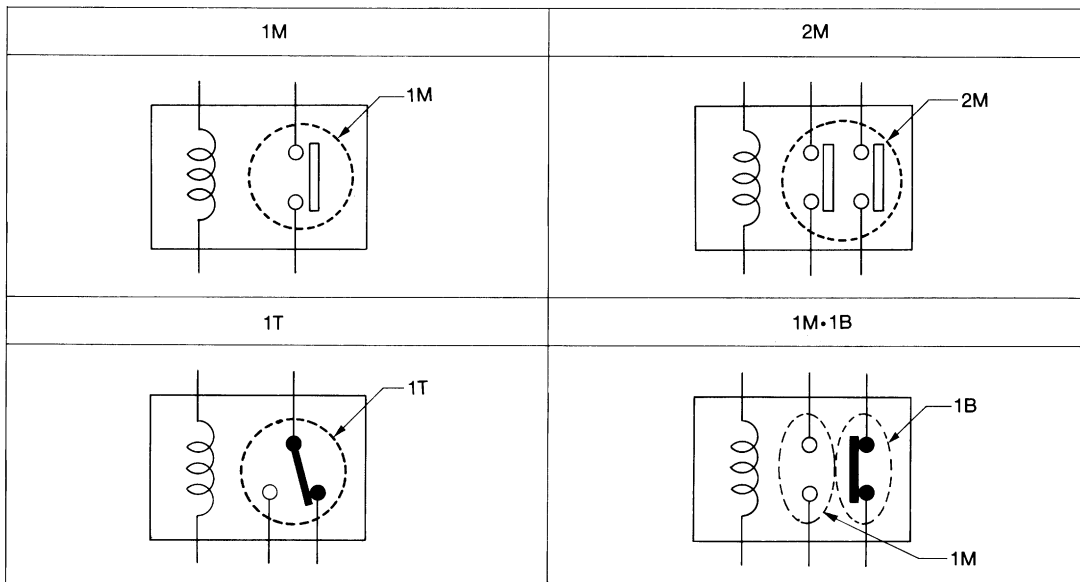
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

### TYPE OF STANDARDIZED RELAYS

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



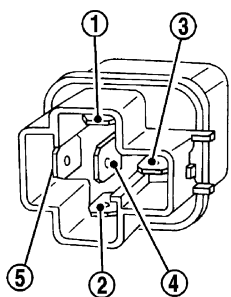
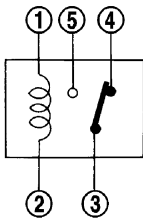
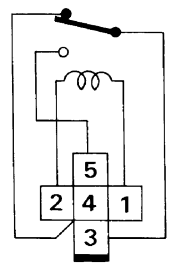
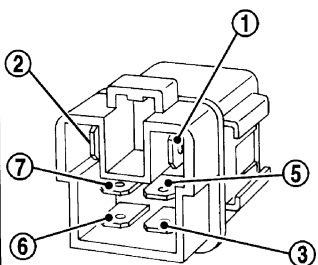
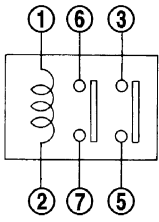
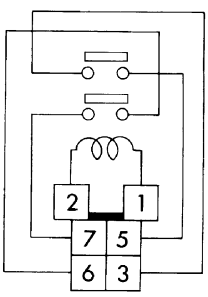
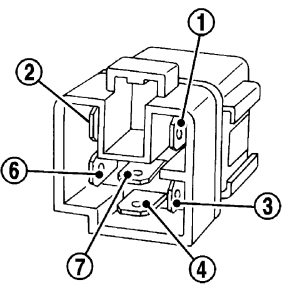
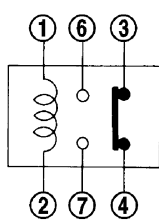
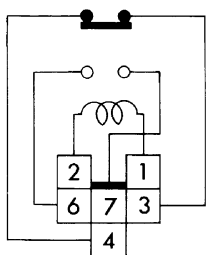
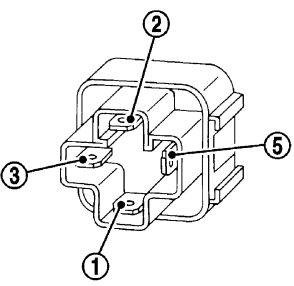
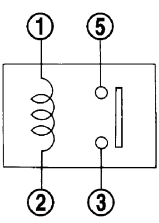
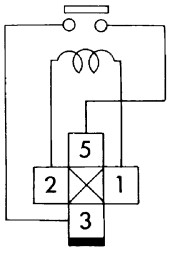
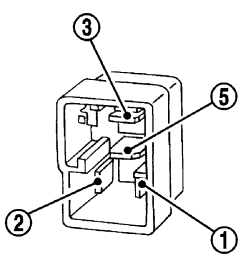
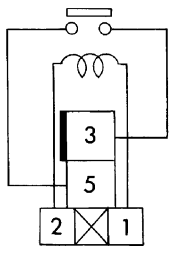
SEL882H

A  
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J

PG

L  
M

# STANDARDIZED RELAY

Type	Outer view	Circuit	Connector symbol and connection	Case color
1T				BLACK
2M				BROWN
1M•1B				GRAY
1M				BLUE
				

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

SEL188W



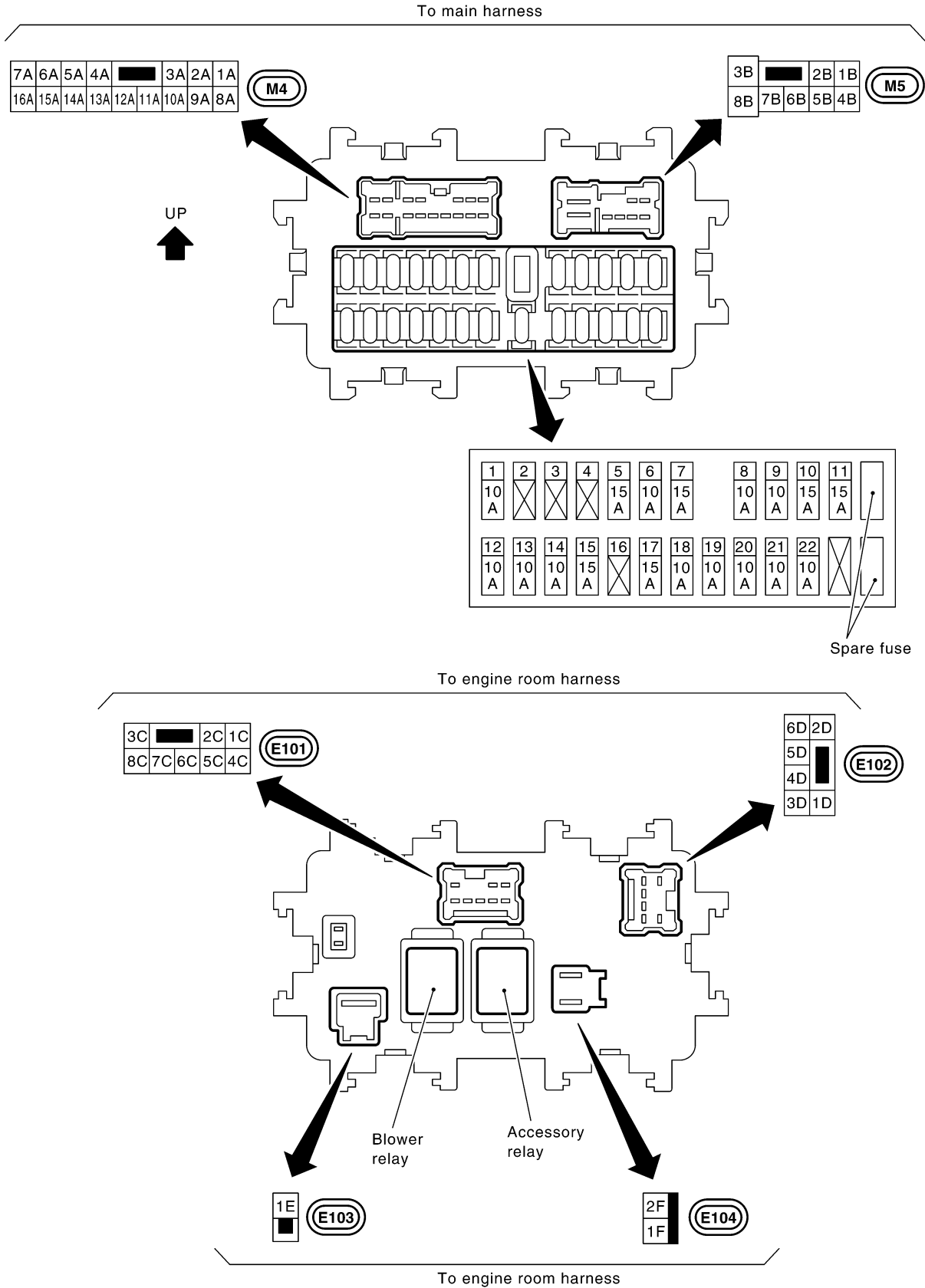
# FUSE BLOCK - JUNCTION BOX (J/B)

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

FFP:24350

### Terminal Arrangement

AKS0012Y



A  
B  
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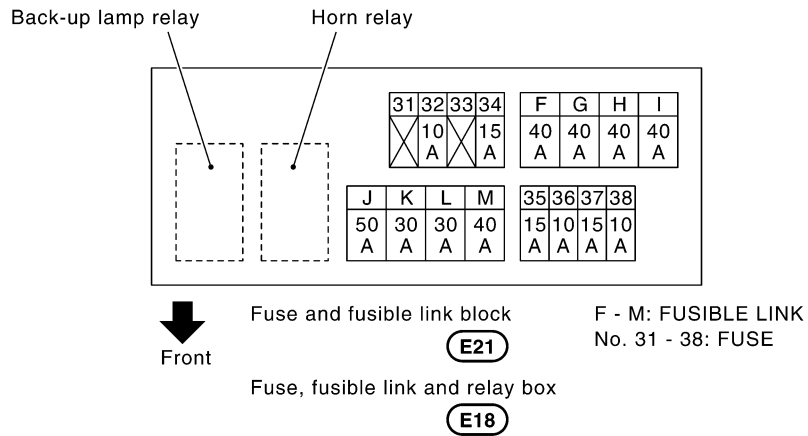
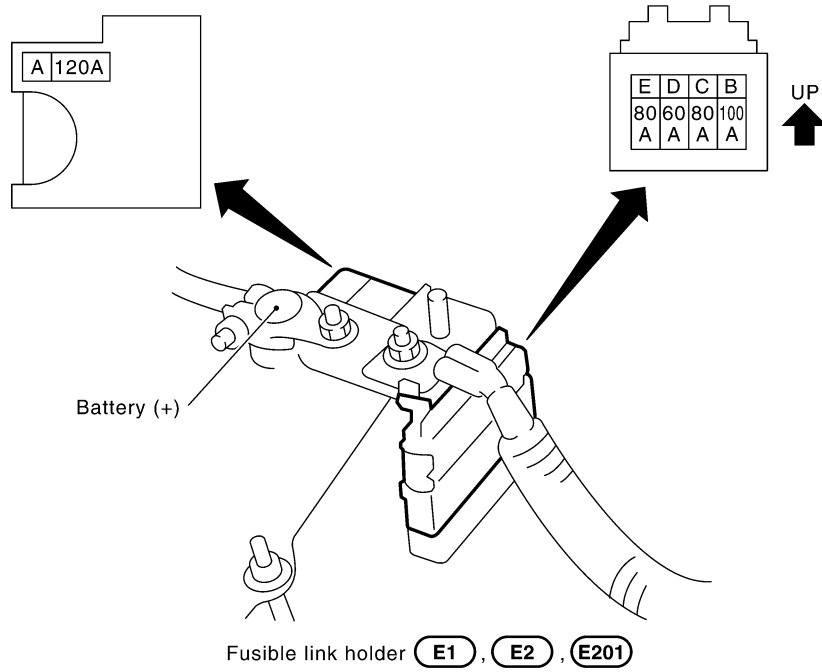
# FUSE, FUSIBLE LINK AND RELAY BOX

PFP:24382

## FUSE, FUSIBLE LINK AND RELAY BOX

### Terminal Arrangement

AKS0012Z



CKIT0186E