

SECTION **PG**

A  
B  
C  
D  
E

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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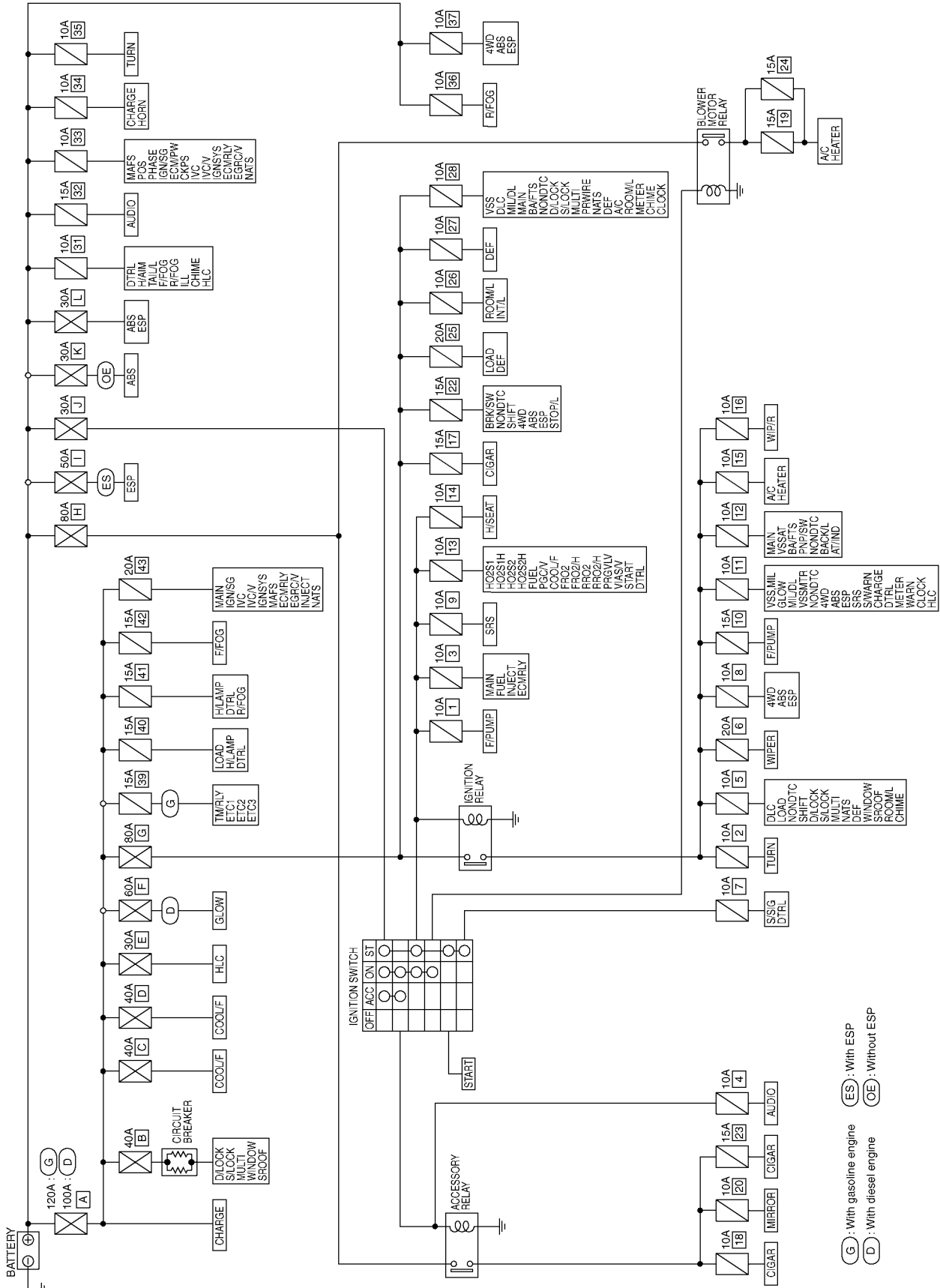
PG  
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M

POWER SUPPLY ROUTING

POWER SUPPLY ROUTING  
Schematic

SMA for models with roof mounted driving lamp

PFP:00011  
EKS00322



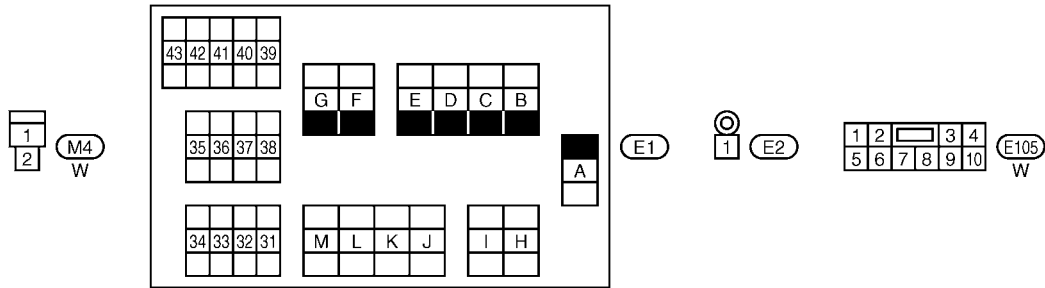
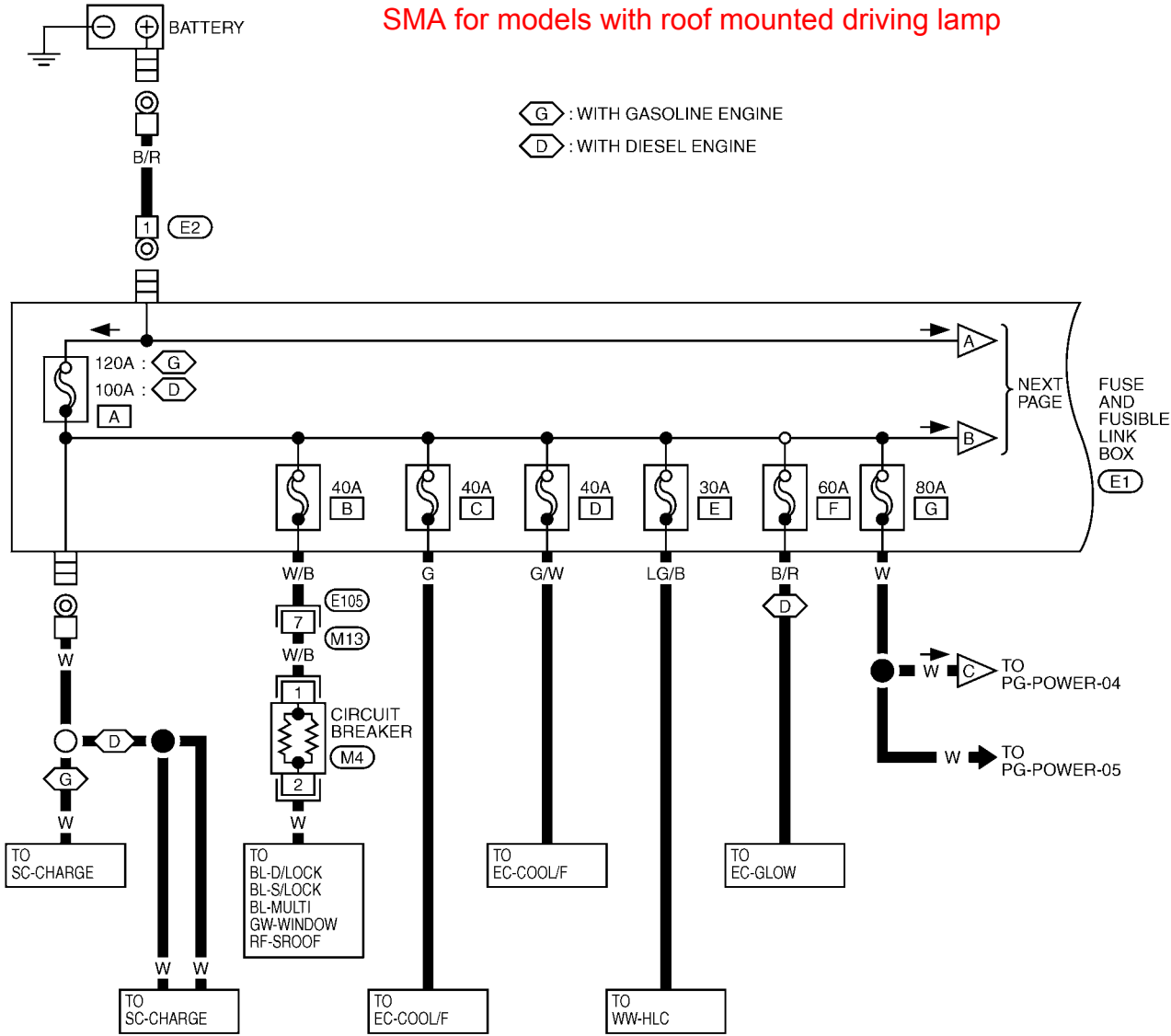
POWER SUPPLY ROUTING

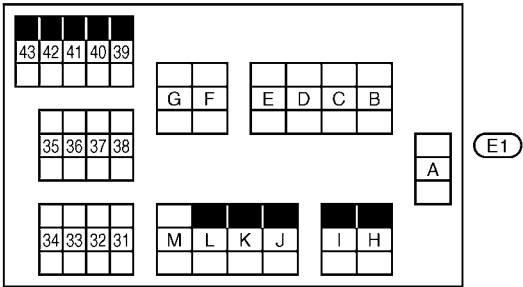
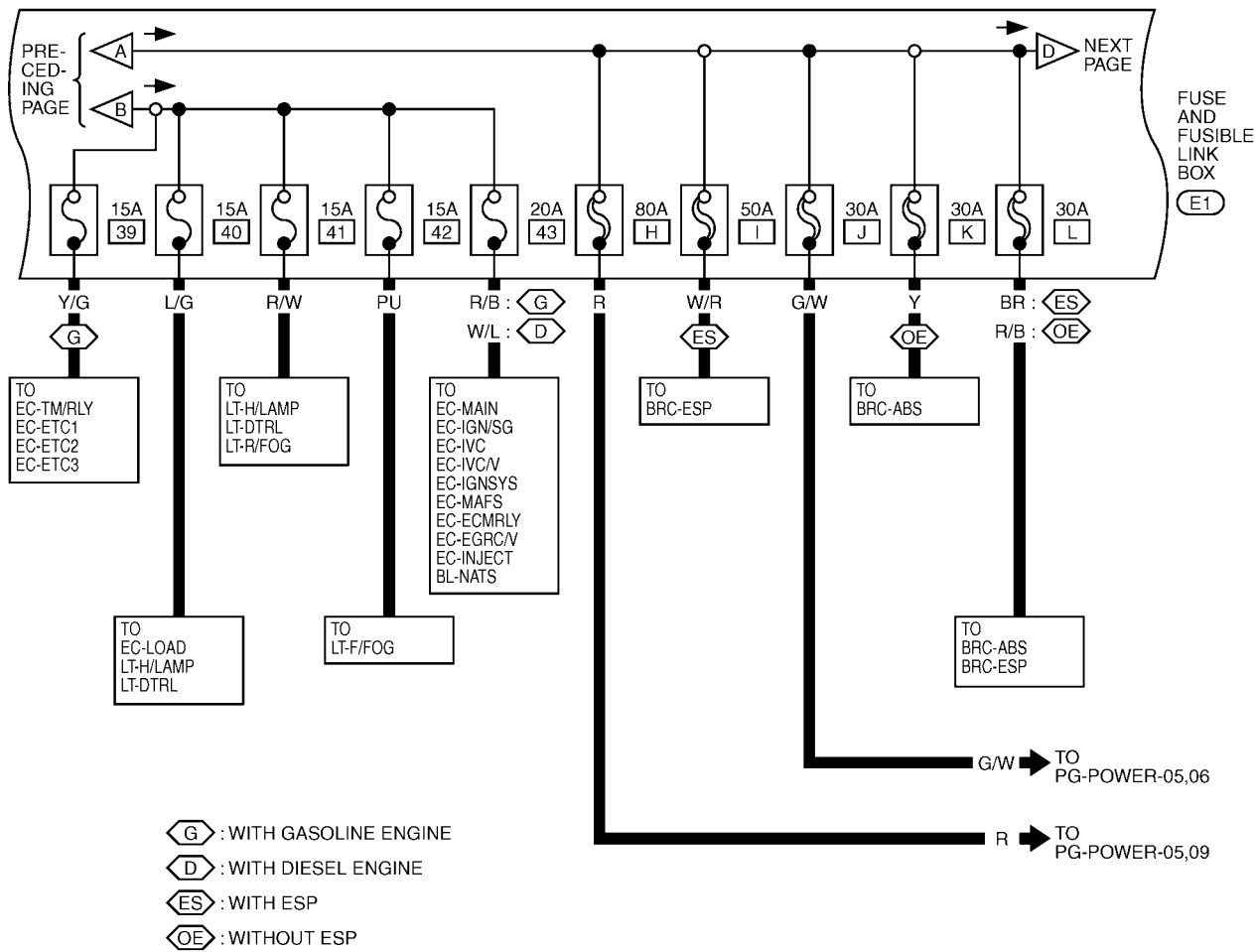
Wiring Diagram — POWER —  
BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION

EKS00323

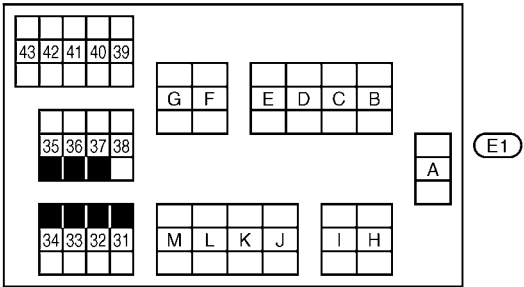
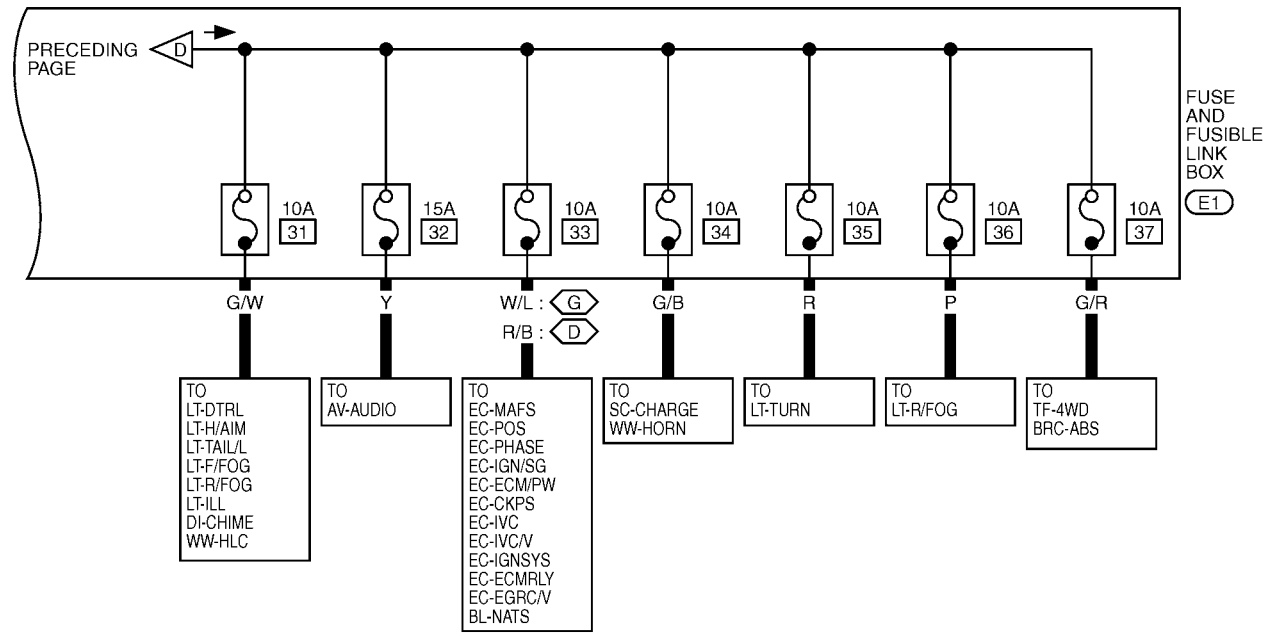
PG-POWER-01

SMA for models with roof mounted driving lamp



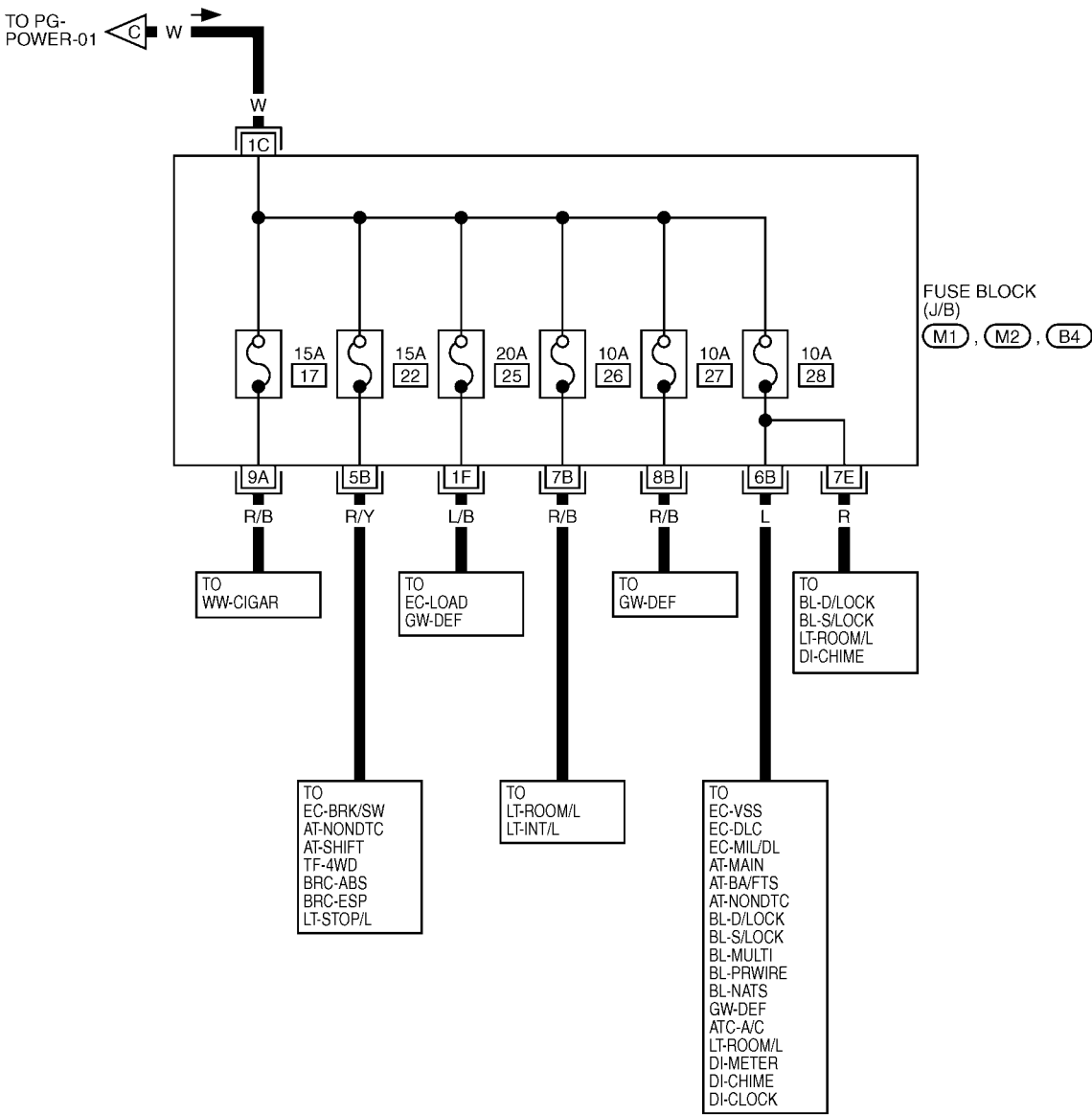


G : WITH GASOLINE ENGINE  
D : WITH DIESEL ENGINE



POWER SUPPLY ROUTING

PG-POWER-04



REFER TO THE FOLLOWING.

M1, M2, B4

-FUSE BLOCK-JUNCTION BOX (J/B)

1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

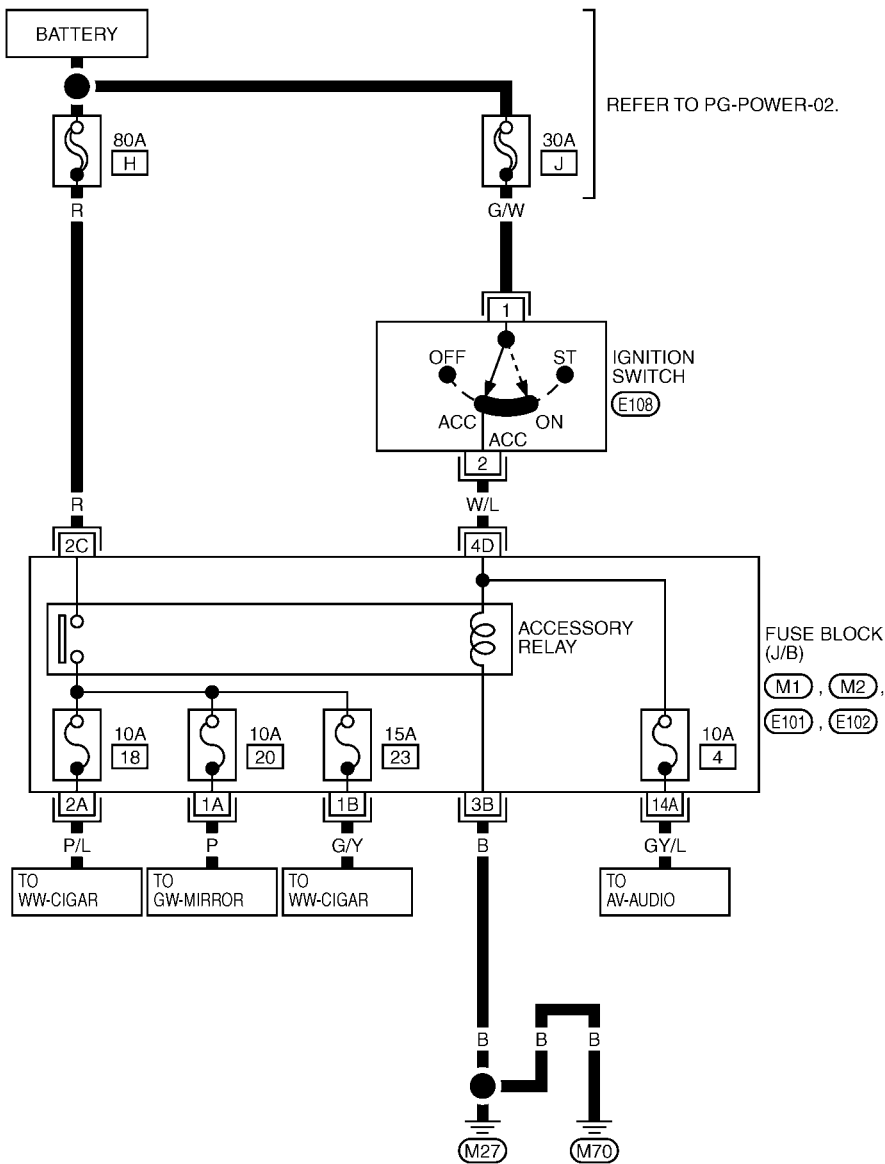
UP

TKWA0132E

POWER SUPPLY ROUTING

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

PG-POWER-05



3	5	1
4	2	6

(E108)  
W

REFER TO THE FOLLOWING.

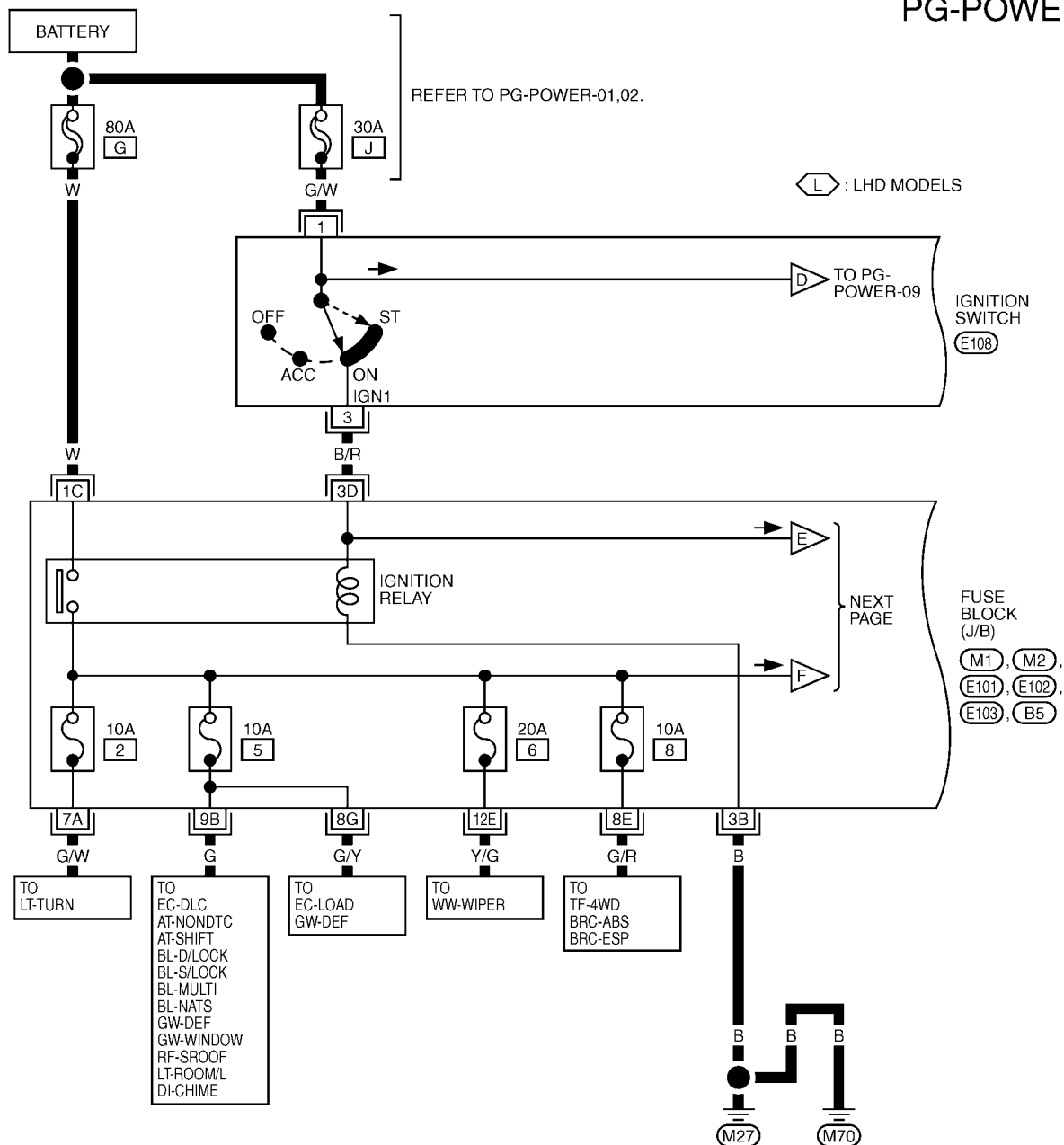
(M1), (M2), (E101), (E102)					
-FUSE BLOCK-JUNCTION BOX (J/B)					
1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

UP ←

## POWER SUPPLY ROUTING

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

PG-POWER-06



3	5	1
4	2	6

E108

W

REFER TO THE FOLLOWING.

(M1), (M2), (E101), (E102),  
(E103), (B5) - FUSE BLOCK-  
JUNCTION BOX (J/B)

1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

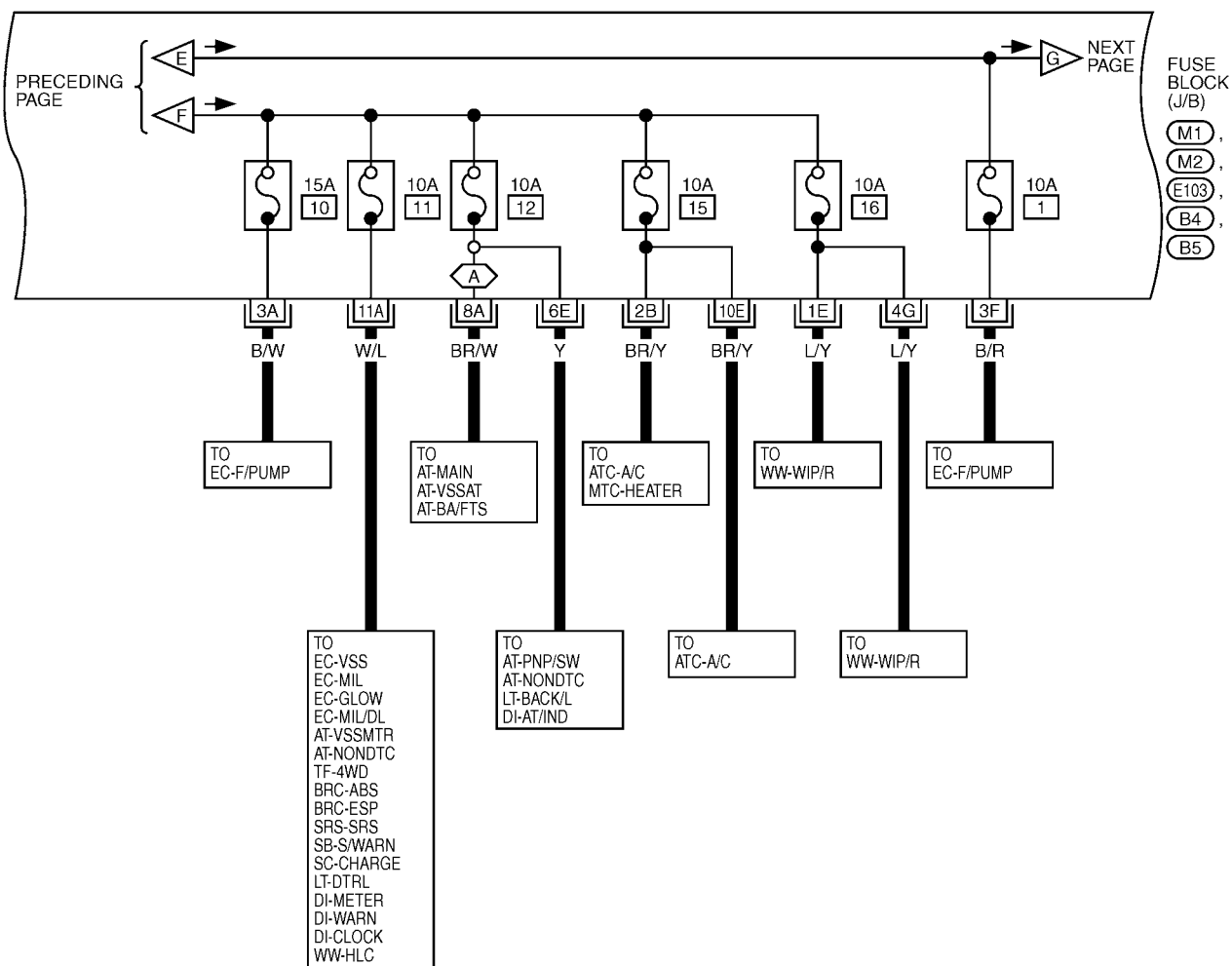
UP 



## POWER SUPPLY ROUTING

PG-POWER-07

**A** : WITH A/T



REFER TO THE FOLLOWING.

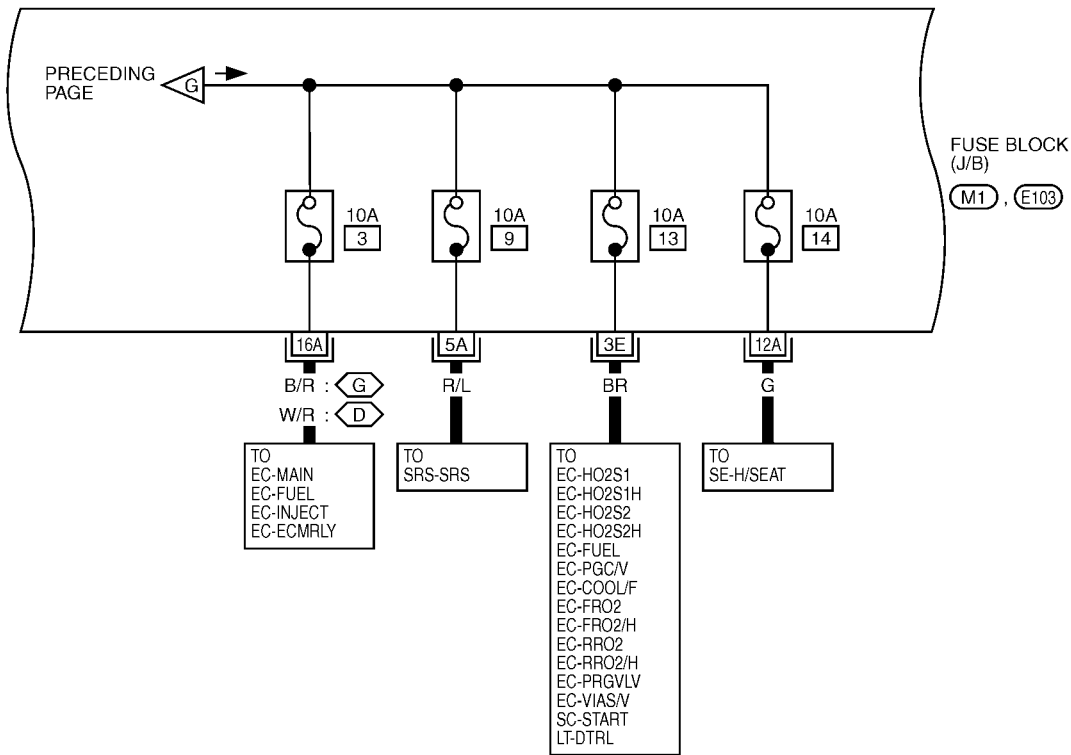
M1, M2, E103, B4,

**(B5) -FUSE BLOCK-  
JUNCTION BOX (J/B)**

1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

UP 

G : WITH GASOLINE ENGINE  
D : WITH DIESEL ENGINE



REFER TO THE FOLLOWING.

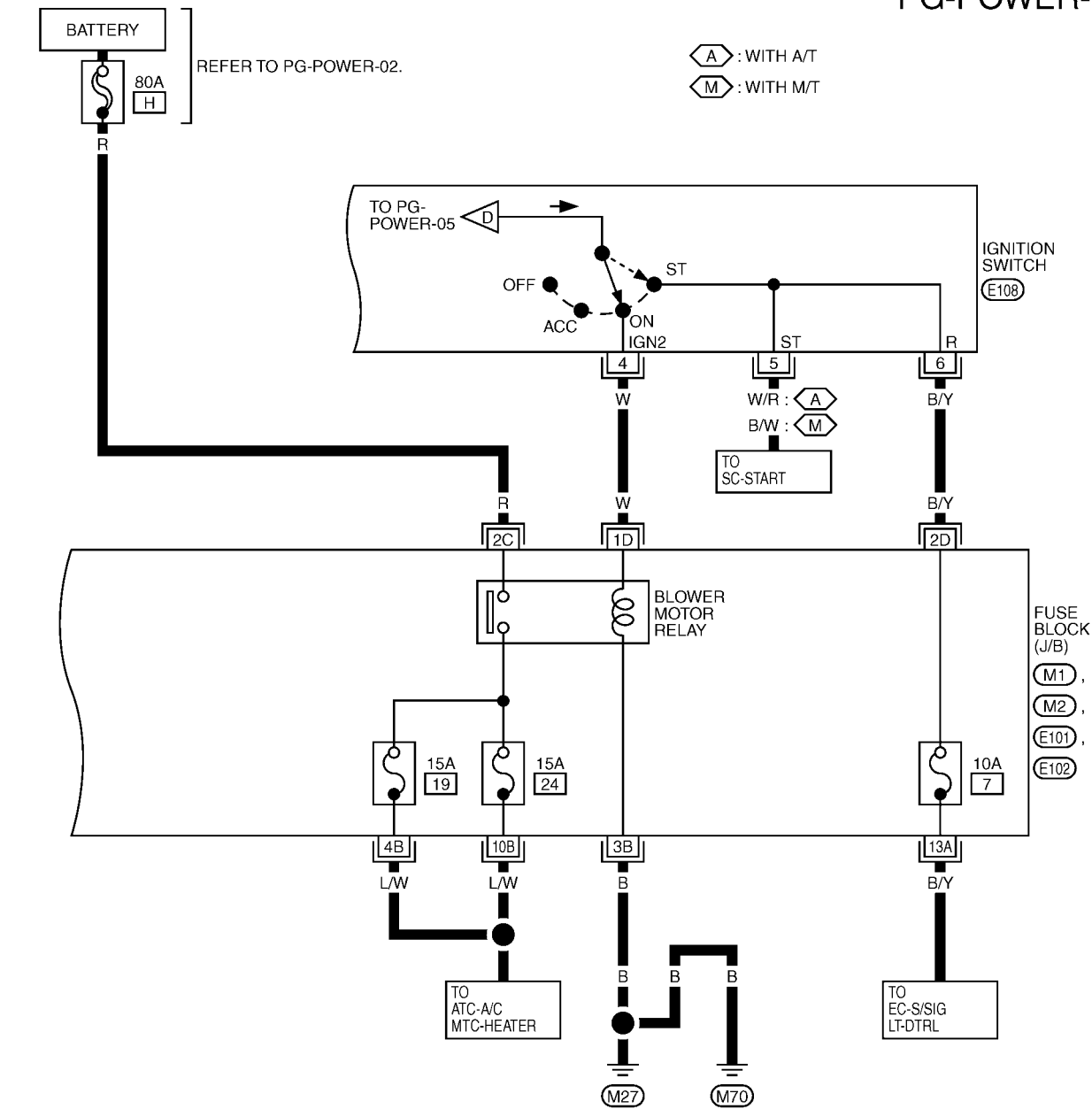
M1, E103  
-FUSE BLOCK-JUNCTION BOX (J/B)

1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

UP

POWER SUPPLY ROUTING

PG-POWER-09



3	5	1
4	2	6

E108  
W

REFER TO THE FOLLOWING.

M1
M2
E101
E102

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

1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

UP

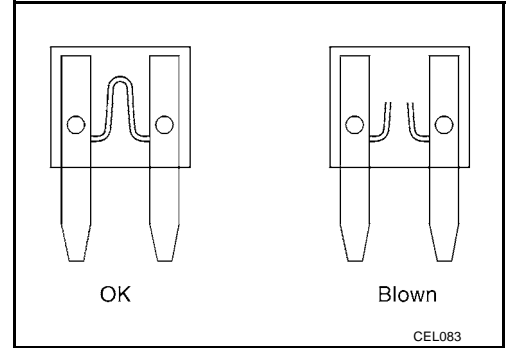
TKWA0127E

# POWER SUPPLY ROUTING

## Fuse

EKS00324

- 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.



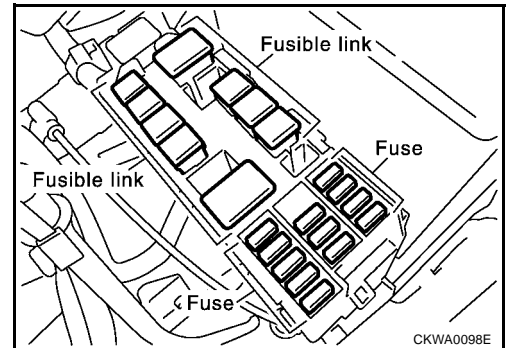
## Fusible Link

EKS00325

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:

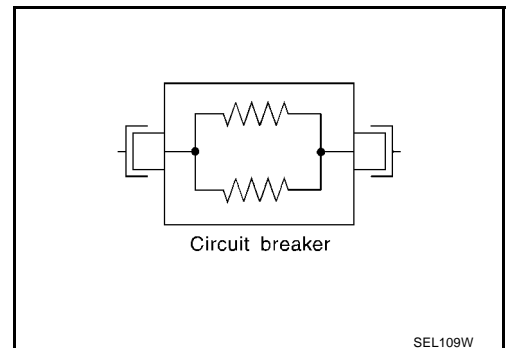
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of incident.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other wiring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



## Circuit Breaker

EKS00326

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.



# GROUND

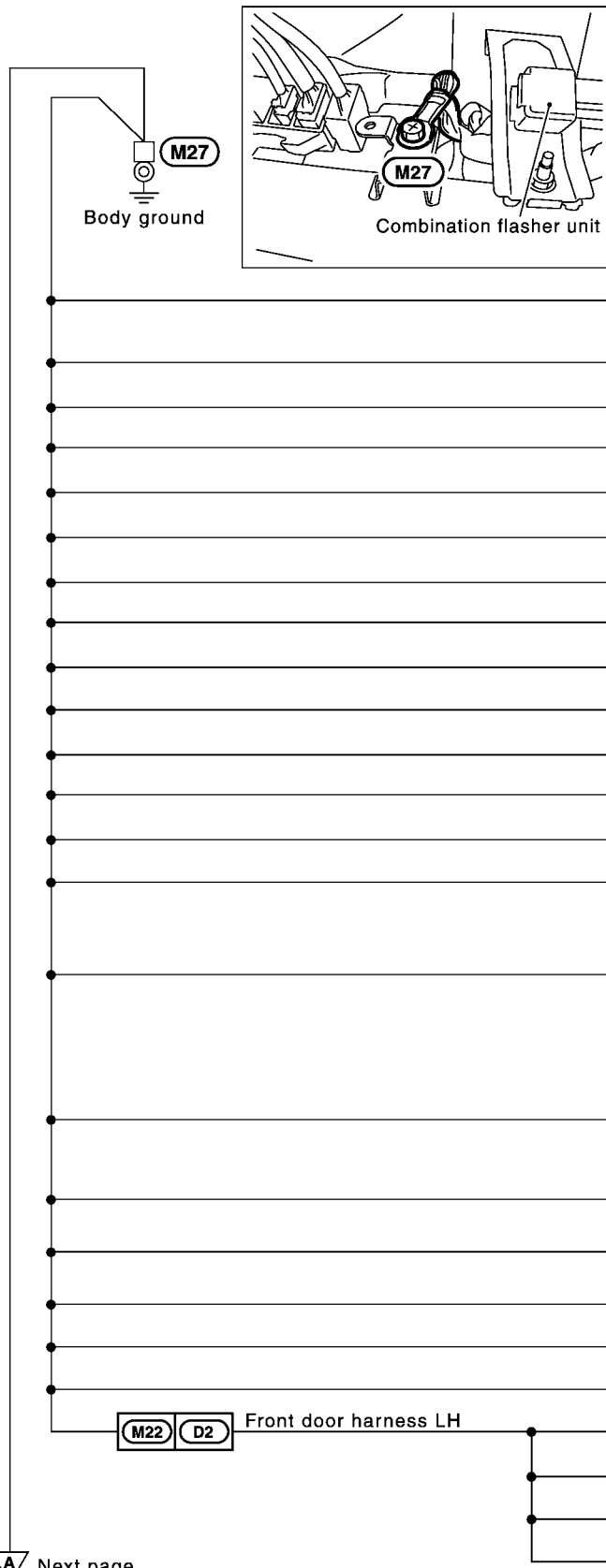
## GROUND

PFP:00011

### Ground Distribution MAIN HARNESS/LHD MODELS

SMA for models with roof mounted driving lamp

EKS0032H



CON- NECTOR NUMBER	CONNECT TO
M2	Fuse block (J/B) (Terminal No. 3B) <ul style="list-style-type: none"><li>• Accessory relay</li><li>• Ignition relay</li><li>• Blower motor relay</li></ul>
M3	Power window relay
M5	Date link connector (Terminal No. 4)
M23	Headlamp washer switch (Terminal No. 2) (With headlamp washer)
M23	Headlamp washer switch (Terminal No. 4) (With headlamp washer)
M24	Headlamp aiming switch
M25	ESP off switch (With ESP)
M26	Door mirror remote control switch
M30	Time control unit
M32	Combination flasher unit
M33	Multi-remote control unit
M35	Front power socket
M39	4WD mode switch
M42	Audio unit
M46	Combination meter (Terminal No. 47) <ul style="list-style-type: none"><li>• Air bag warning lamp</li><li>• Fuel gauge</li><li>• Water temperature gauge</li><li>• Speedometer</li><li>• Tachometer</li><li>• Odo/trip meter</li><li>• Clock</li></ul>
M46	Combination meter (Terminal No. 48) <ul style="list-style-type: none"><li>• ABS indicator</li><li>• ESP off indicator</li><li>• Rear fog</li><li>• Turn signal</li><li>• A/T indicator</li></ul>
M46	Combination meter (Terminal No. 60) <ul style="list-style-type: none"><li>• High beam indicator</li></ul>
M46	Combination meter (Terminal No. 66) <ul style="list-style-type: none"><li>• Odo/trip illumination</li><li>• Meter illumination</li></ul>
M51	Hazard switch
M59	Air bag diagnosis sensor unit (Terminal No. 2)
M81	Steering wheel angle sensor (With ESP)
D3	Door mirror actuator (Driver side)
D6	Power window main switch
D8	Door key cylinder switch (Driver side)
D9	Front door lock actuator (Driver side)

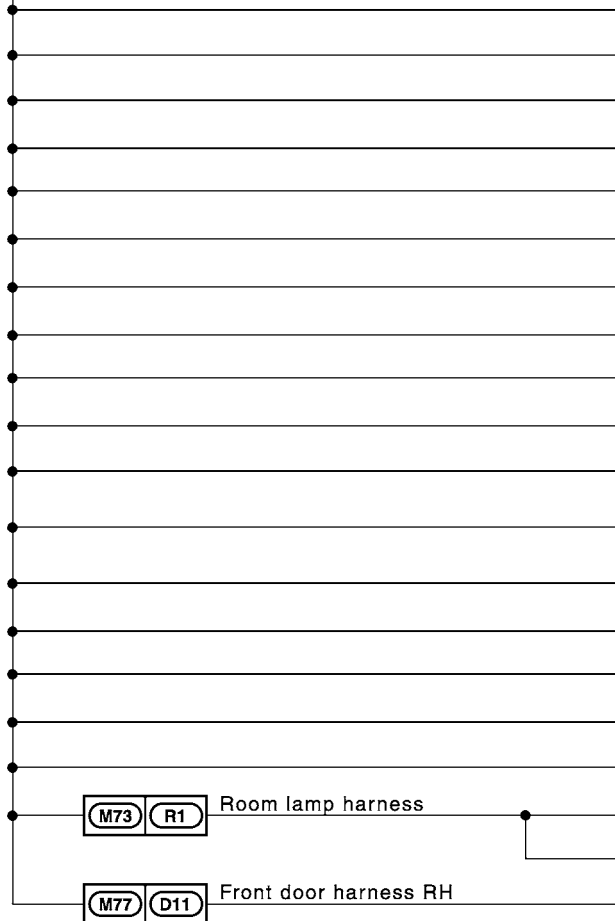
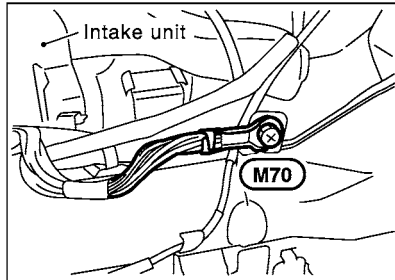
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CKWA0043E

# GROUND

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Body ground

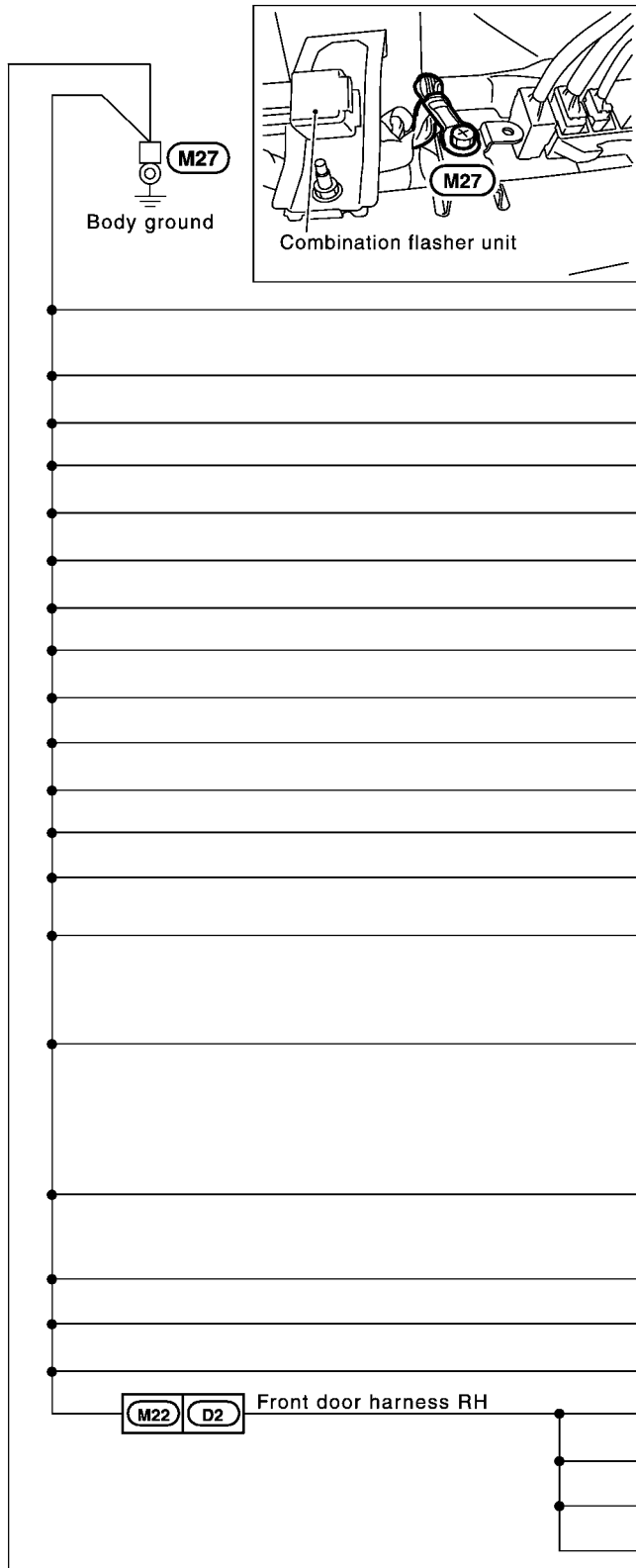


CON- NECTOR NUMBER	CONNECT TO
<b>M8</b>	Cigarette lighter relay
<b>M37</b>	Mode door motor (With auto A/C)
<b>M38</b>	Airmix door motor (With auto A/C)
<b>M47</b>	Intake door motor (With auto A/C)
<b>M50</b>	Rear window defogger switch (Terminal No. 2)
<b>M50</b>	Rear window defogger switch (Terminal No. 4)
<b>M50</b>	Rear window defogger switch (Terminal No. 6)
<b>M52</b>	A/C auto amp. (With auto A/C)
<b>M54</b>	Fan switch (With manual A/C)
<b>M55</b>	Heater control panel (Terminal No. 5) (With manual A/C)
<b>M55</b>	Heater control panel (Terminal No. 6) (With manual A/C)
<b>M56</b>	Cigarette lighter socket <ul style="list-style-type: none"> <li>• Cigarette lighter</li> <li>• Illumination</li> </ul>
<b>M58</b>	A/T device (Terminal No. 2)
<b>M58</b>	A/T device (Terminal No. 4)
<b>M58</b>	A/T device (Terminal No. 6)
<b>M67</b>	Fan control amp. (With auto A/C)
<b>M82</b>	CD autochanger
<b>R2</b>	Spot lamp
<b>R3</b>	Sunroof switch
<b>D14</b>	Door mirror actuator (Passenger side)

# GROUND

## MAIN HARNESS/RHD MODELS

SMA for models with roof mounted driving lamp



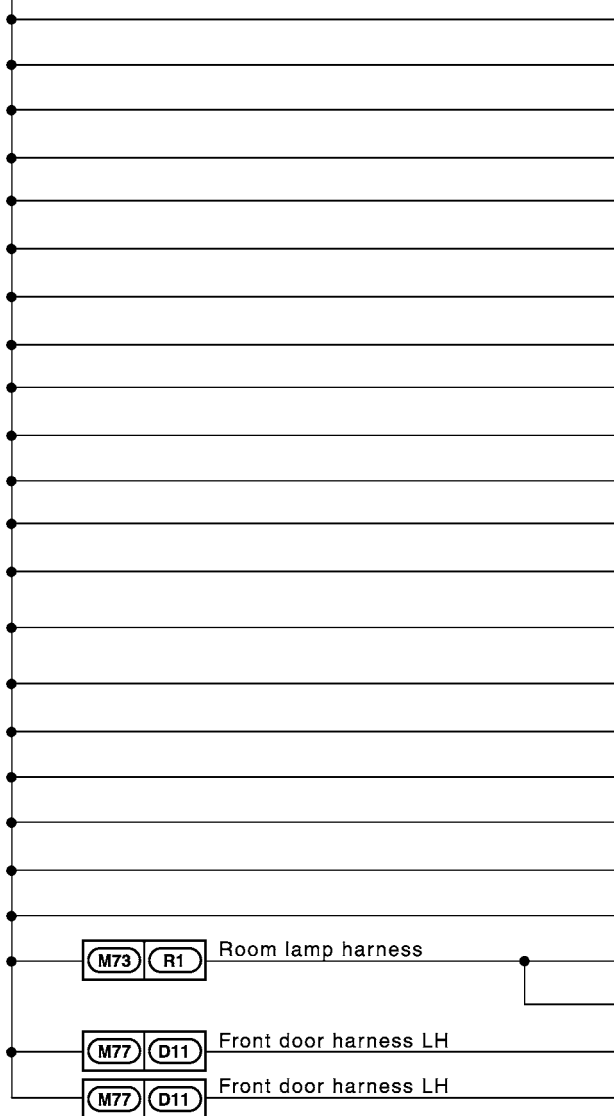
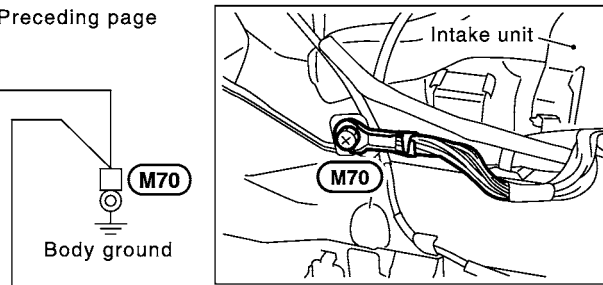
CON- NECTOR NUMBER	CONNECT TO
M2	Fuse block (J/B) (Terminal No. 3B) • Accessory relay • Ignition relay • Blower motor relay
M3	Power window relay
M5	Date link connector (Terminal No. 4)
M23	Headlamp washer switch (Terminal No. 2) (With headlamp washer)
M23	Headlamp washer switch (Terminal No. 4) (With headlamp washer)
M24	Headlamp aiming switch
M25	ESP off switch (With ESP)
M26	Door mirror remote control switch
M30	Time control unit
M32	Combination flasher unit
M35	Front power socket
M39	4WD mode switch
M46	Combination meter (Terminal No. 49) • High beam indicator
M46	Combination meter (Terminal No. 56) • Odo/trip illumination • Meter illumination
M46	Combination meter (Terminal No. 60) • Air bag warning lamp • Fuel gauge • Water temperature gauge • Speedometer • Tachometer • Odo/trip meter • Clock
M46	Combination meter (Terminal No. 61) • ABS indicator • ESP off indicator • Rear fog • Turn signal • A/T indicator
M51	Hazard switch
M59	Air bag diagnosis sensor unit (Terminal No. 2)
M81	Steering wheel angle sensor (With ESP)
D3	Door mirror actuator (Driver side)
D6	Power window main switch
D8	Door key cylinder switch (Driver side)
D9	Front door lock actuator (Driver side)

A Next page

CKWA0045E

# GROUND

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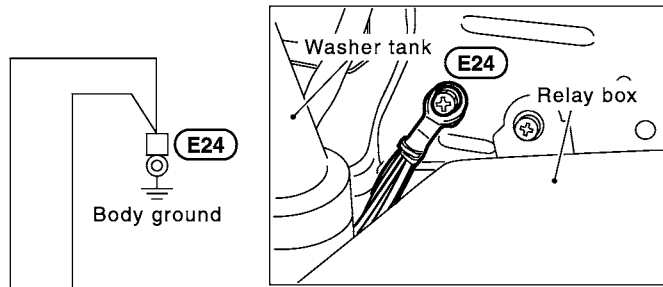
CON- NECTOR NUMBER	CONNECT TO
<b>M8</b>	Cigarette lighter relay
<b>M33</b>	Multi-remote control unit
<b>M37</b>	Mode door motor (With auto A/C)
<b>M38</b>	Air mix door motor (With auto A/C)
<b>M42</b>	Audio unit
<b>M47</b>	Intake door motor (With auto A/C)
<b>M50</b>	Rear window defogger switch (Terminal No. 2)
<b>M50</b>	Rear window defogger switch (Terminal No. 4)
<b>M50</b>	Rear window defogger switch (Terminal No. 6)
<b>M52</b>	A/C auto amp. (With auto A/C)
<b>M54</b>	Fan switch (With manual A/C)
<b>M55</b>	Heater control panel (Terminal No. 5) (With manual A/C)
<b>M55</b>	Heater control panel (Terminal No. 6) (With manual A/C)
<b>M56</b>	Cigarette lighter socket <ul style="list-style-type: none"> <li>• Cigarette lighter</li> <li>• Illumination</li> </ul>
<b>M58</b>	A/T device (Terminal No. 2)
<b>M58</b>	A/T device (Terminal No. 4)
<b>M58</b>	A/T device (Terminal No. 6)
<b>M67</b>	Fan control amp. (With auto A/C)
<b>M80</b>	Dongle unit
<b>M82</b>	CD autochanger
<b>R2</b>	Spot lamp
<b>R3</b>	Sunroof switch
<b>D14</b>	Door mirror actuator (Passenger side)
<b>D17</b>	Front door lock actuator (Passenger side)

CKWA0046E



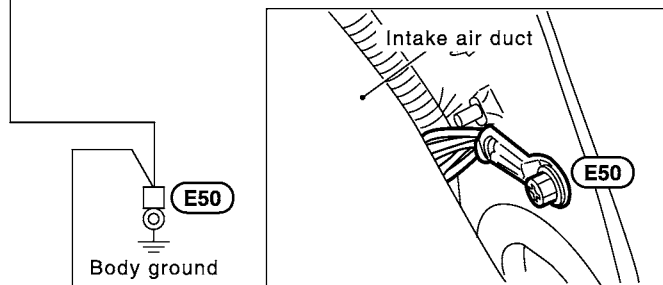
# GROUND

## ENGINE ROOM HARNESS/LHD MODELS



CON- NECTOR NUMBER	CONNECT TO
<b>(E7)</b>	Front fog lamp relay
<b>(E8)</b>	Headlamp washer timer
<b>(E9)</b>	Cooling fan relay-2
<b>(E10)</b>	4WD actuator relay
<b>(E11)</b>	Cooling fan relay-3
<b>(E13)</b>	Daytime light relay LH (With daytime light system)
<b>(E15)</b>	Rear fog lamp relay
<b>(E16)</b>	Daytime light relay RH (With daytime light system)
<b>(E28)</b>	Headlamp aiming motor RH
<b>(E43)</b>	Parking lamp LH
<b>(E45)</b>	Front fog lamp LH
<b>(E46)</b>	Headlamp LH

CON- NECTOR NUMBER	CONNECT TO
<b>(E19)</b>	Brake fluid level switch
<b>(E20)</b>	Side turn signal lamp RH
<b>(E25)</b>	Front turn signal lamp RH
<b>(E47)</b>	Front turn signal lamp LH
<b>(E48)</b>	Side turn signal lamp LH



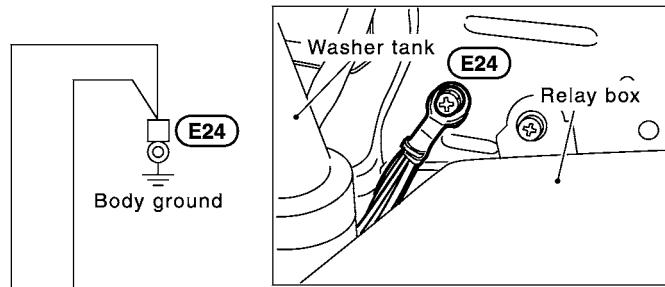
CON- NECTOR NUMBER	CONNECT TO
<b>(E18)</b>	Front wiper motor
<b>(E26)</b>	Headlamp RH
<b>(E27)</b>	Front fog lamp RH
<b>(E29)</b>	Parking lamp RH
<b>(E41)</b>	Cooling fan motor-1
<b>(E42)</b>	Cooling fan motor-2
<b>(E44)</b>	Headlamp aiming motor LH
<b>(E54)</b>	Option connector for hood switch
<b>(E112)</b>	Combination switch (Terminal No. 17) (Front wiper and washer switch)
<b>(E112)</b>	Combination switch (Terminal No. 24) (Rear wiper and washer switch)
<b>(E115)</b>	Daytime light control unit

CKWA0047E

# GROUND

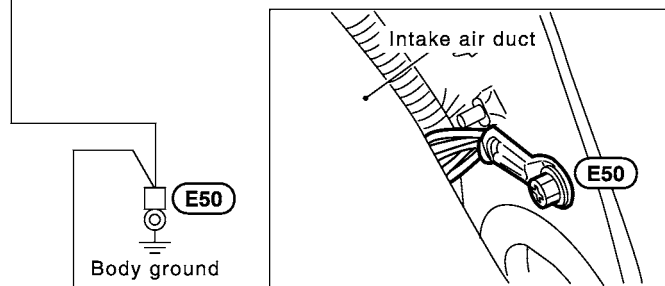
## ENGINE ROOM HARNESS/RHD MODELS

SMA for models with roof mounted driving lamp



CON- NECTOR NUMBER	CONNECT TO
<b>E7</b>	Front fog lamp relay
<b>E8</b>	Headlamp washer timer
<b>E9</b>	Cooling fan relay-2
<b>E10</b>	4WD actuator relay
<b>E11</b>	Cooling fan relay-3
<b>E15</b>	Rear fog lamp relay
<b>E18</b>	Front wiper motor
<b>E28</b>	Headlamp aiming motor RH
<b>E43</b>	Parking lamp LH
<b>E45</b>	Front fog lamp LH
<b>E46</b>	Headlamp LH
<b>E112</b>	Combination switch (Terminal No. 17) (Front wiper and washer switch)
<b>E112</b>	Combination switch (Terminal No. 24) (Rear wiper and washer switch)

CON- NECTOR NUMBER	CONNECT TO
<b>E19</b>	Brake fluid level switch
<b>E20</b>	Side turn signal lamp RH
<b>E25</b>	Front turn signal lamp RH
<b>E47</b>	Front turn signal lamp LH
<b>E48</b>	Side turn signal lamp LH

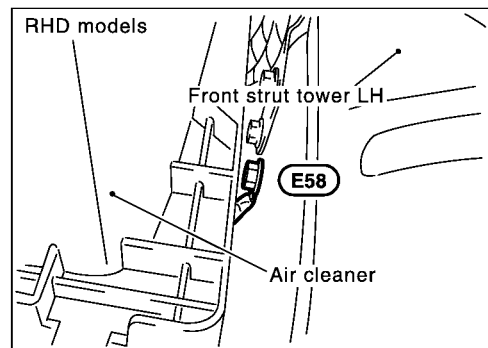
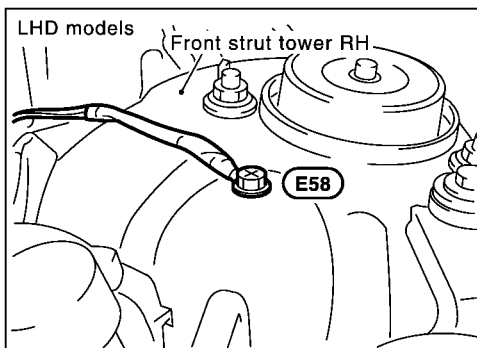
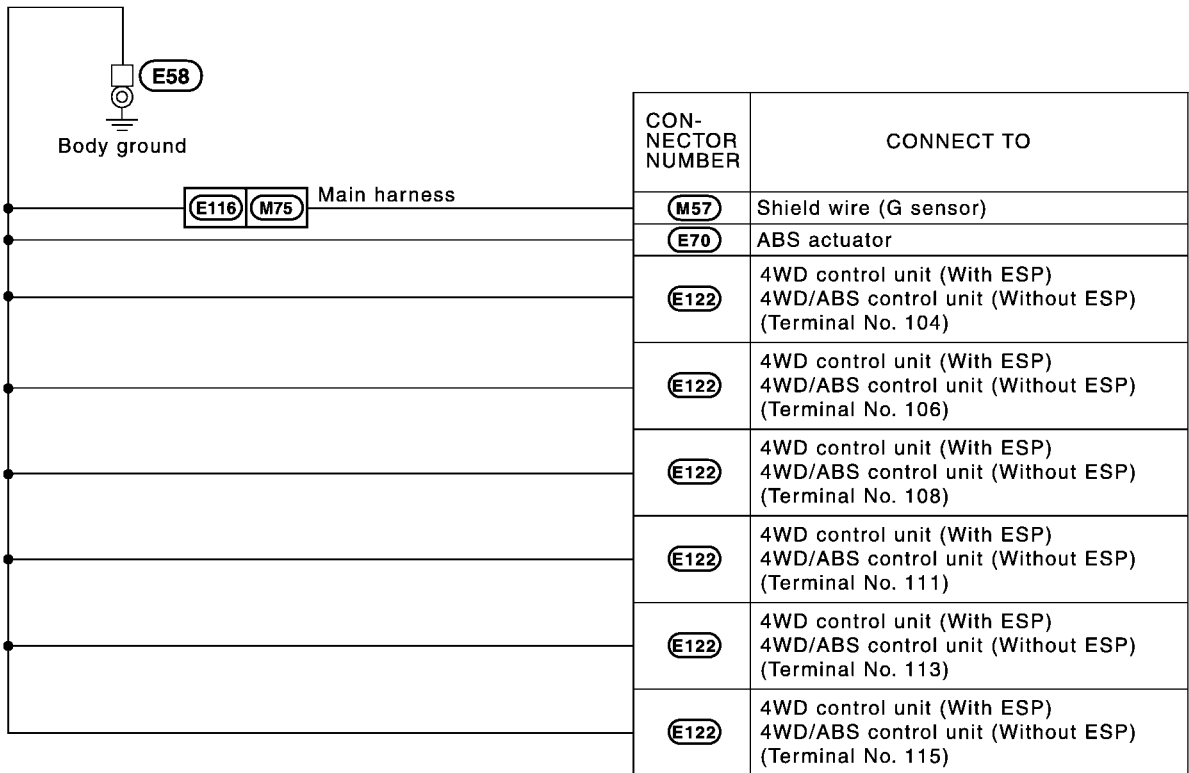
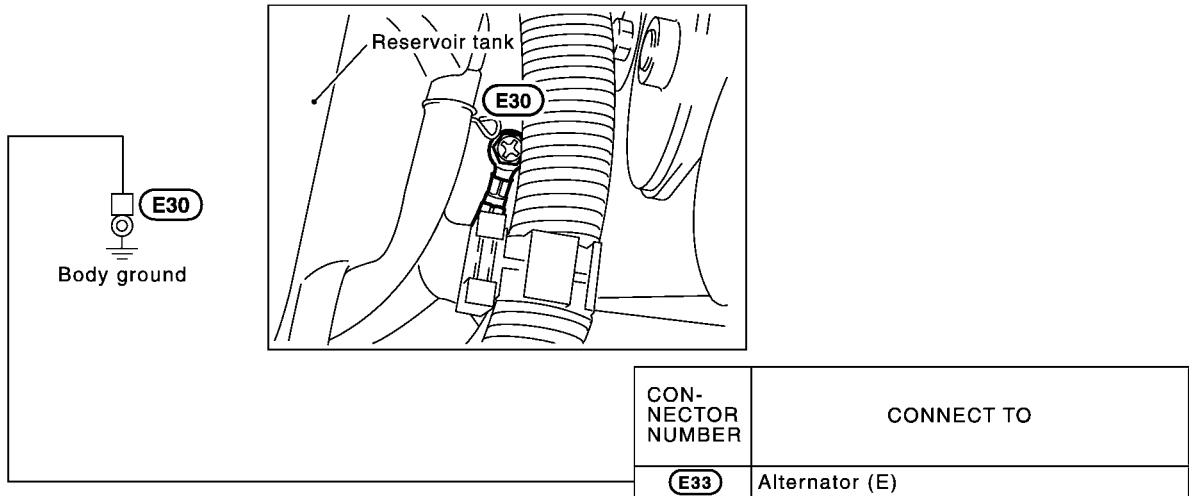


CON- NECTOR NUMBER	CONNECT TO
<b>E26</b>	Headlamp RH
<b>E27</b>	Front fog lamp RH
<b>E29</b>	Parking lamp RH
<b>E41</b>	Cooling fan motor-1
<b>E42</b>	Cooling fan motor-2
<b>E44</b>	Headlamp aiming motor LH
<b>E54</b>	Option connector for hood switch

CKWA0048E

# GROUND

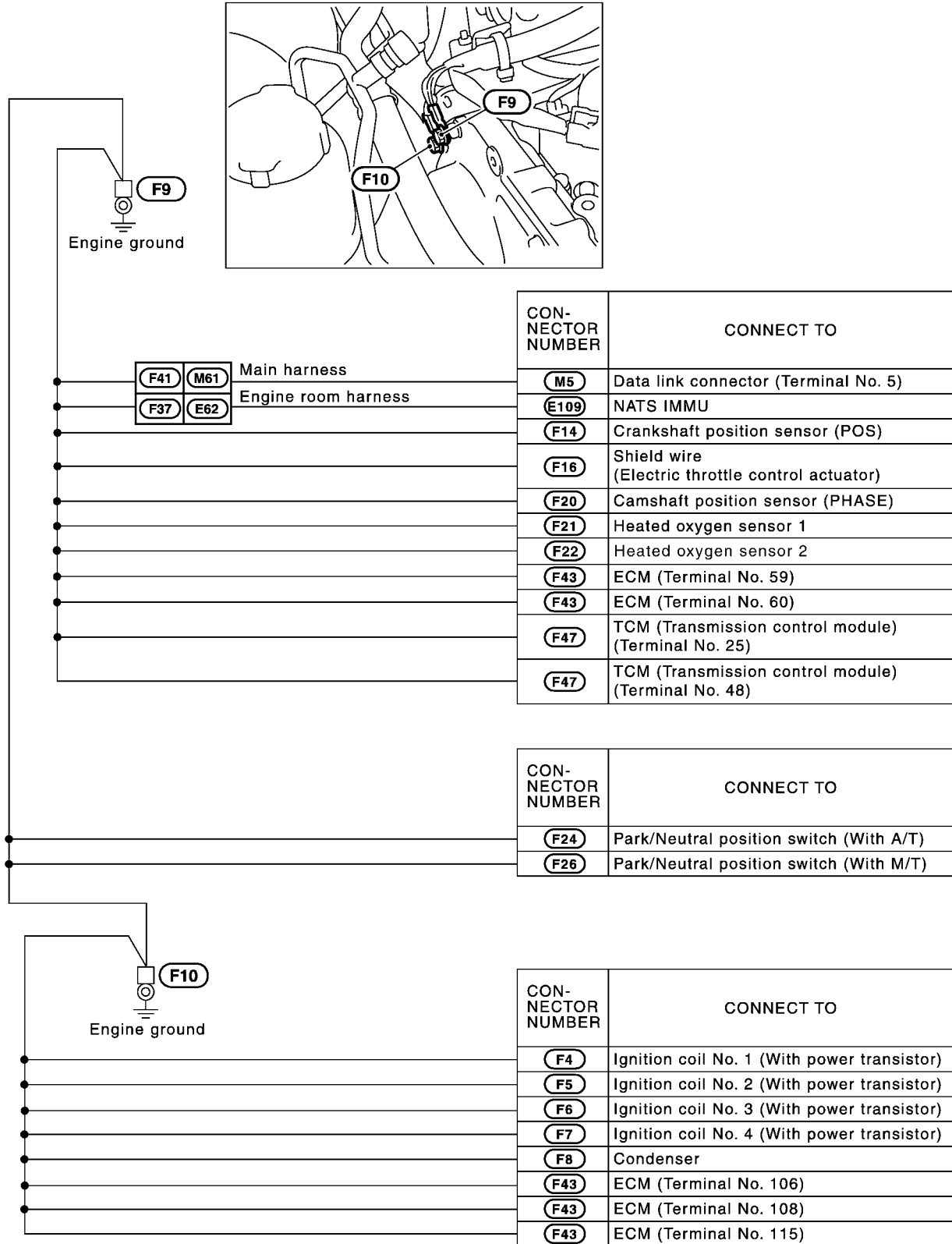
## ENGINE ROOM HARNESS



CKWA0049E

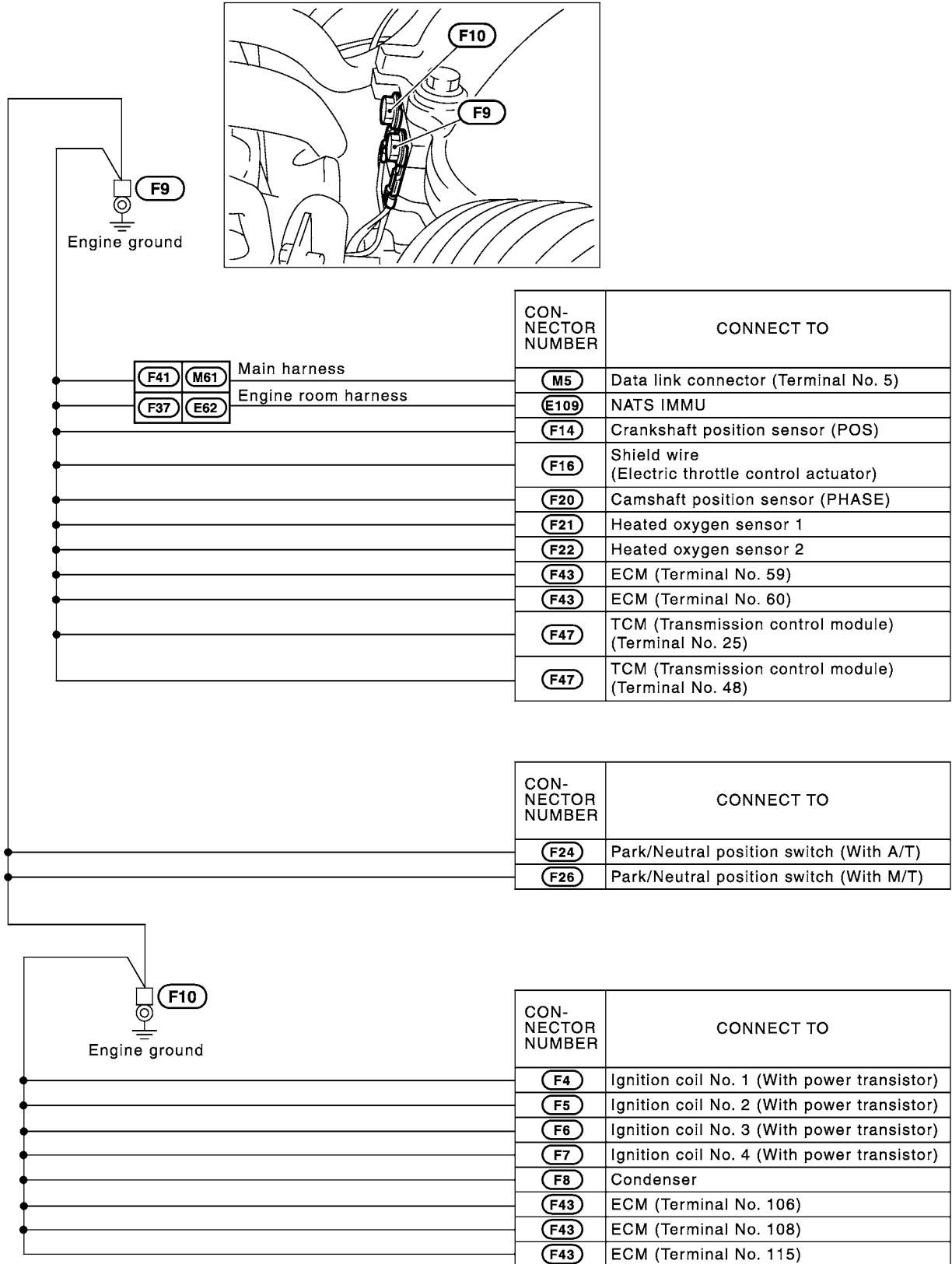
# GROUND

## ENGINE CONTROL HARNESS/QR25 ENGINE MODELS



# GROUND

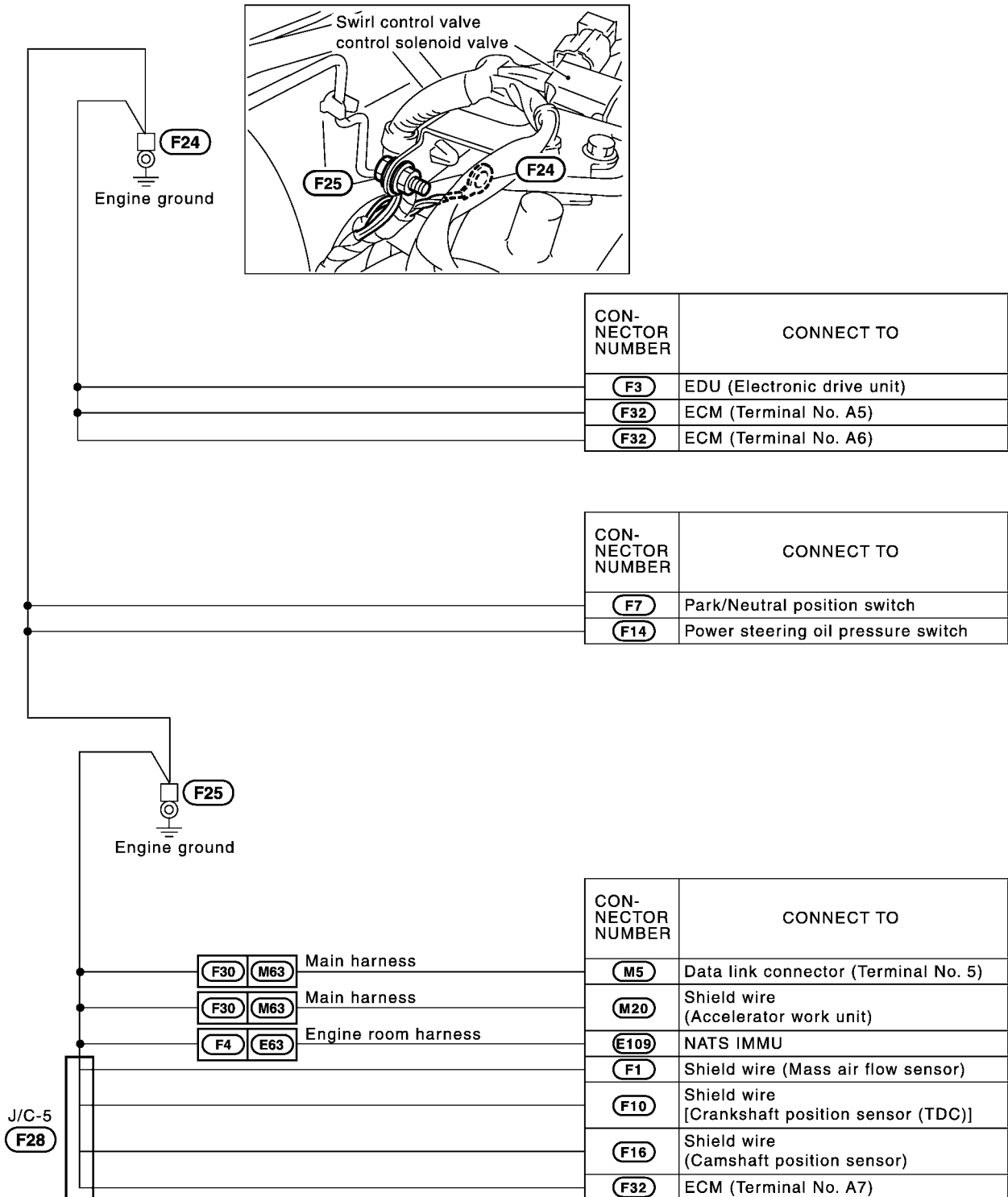
## ENGINE CONTROL HARNESS/QR20 ENGINE MODELS



CKWA0050E

# GROUND

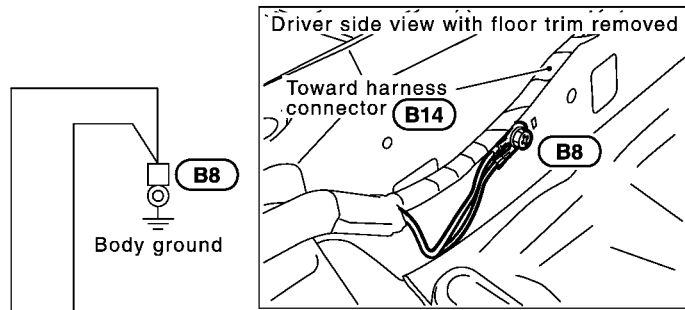
## ENGINE CONTROL HARNESS/DIESEL ENGINE MODELS



CKWA0051E

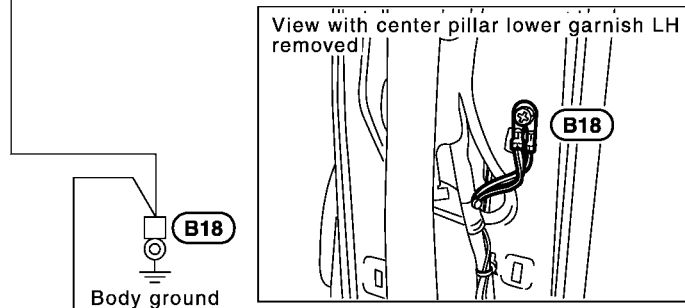
# GROUND

## BODY HARNESS/LHD MODELS



CON- NECTOR NUMBER	CONNECT TO
(B31)	Fuel level sensor unit and fuel pump (With gasoline engine)
(B32)	Fuel level sensor unit (With diesel engine)

CON- NECTOR NUMBER	CONNECT TO
(B10)	Seat belt buckle switch (Driver side)
(B11)	Heated seat LH
(B16)	Front door switch (Driver side)
(B23)	Rear power socket
(B25)	Rear fog lamp
(B31)	Fuel level sensor unit and fuel pump (With gasoline engine)
(B33)	Condenser (With gasoline engine)

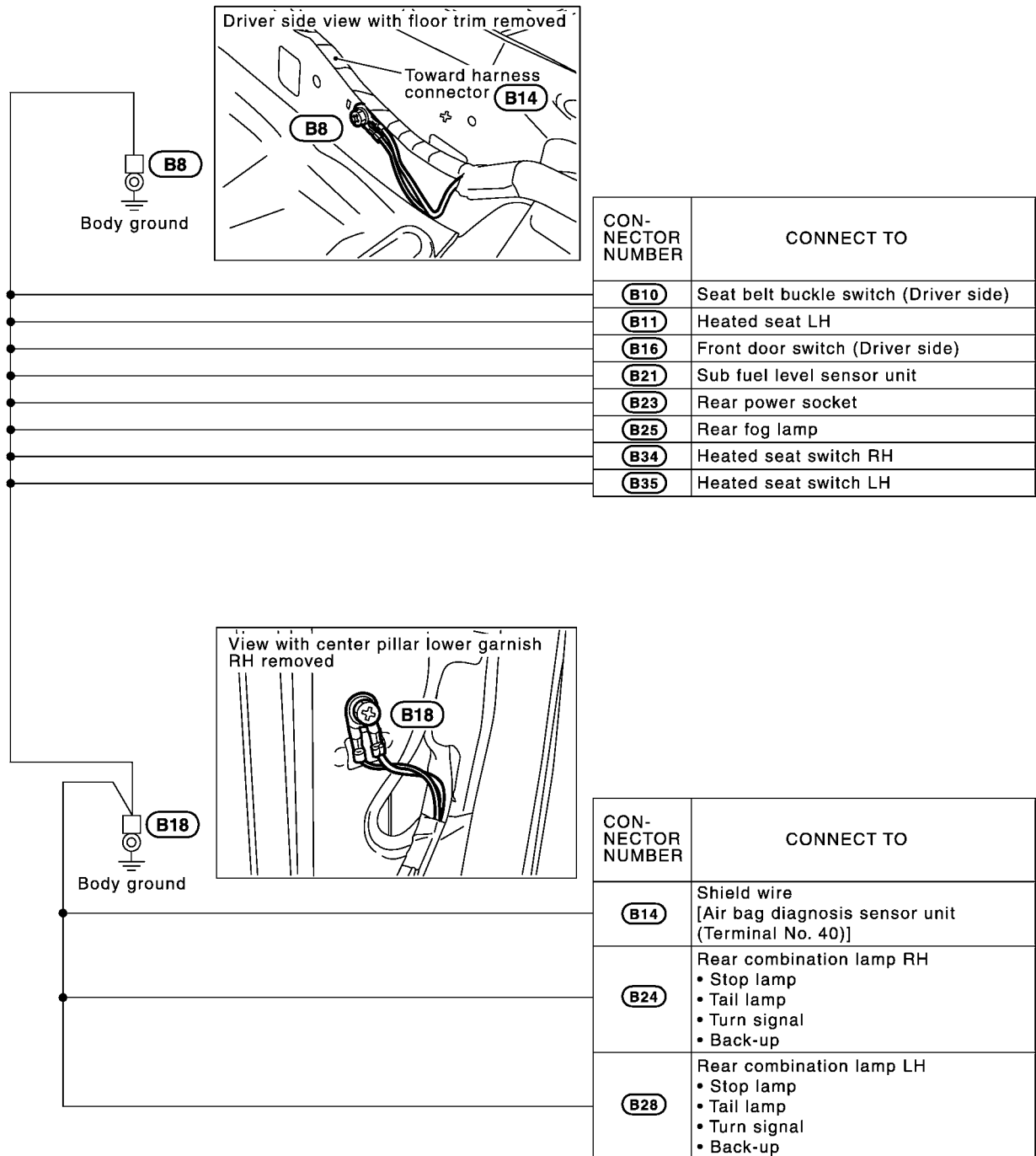


CON- NECTOR NUMBER	CONNECT TO
(B14)	Shield wire [Air bag diagnosis sensor unit (Terminal No. 44)]
(B24)	Rear combination lamp RH • Stop lamp • Tail lamp • Turn signal • Back-up
(B28)	Rear combination lamp LH • Stop lamp • Tail lamp • Turn signal • Back-up

CKWA0153E

# GROUND

## BODY HARNESS/RHD MODELS

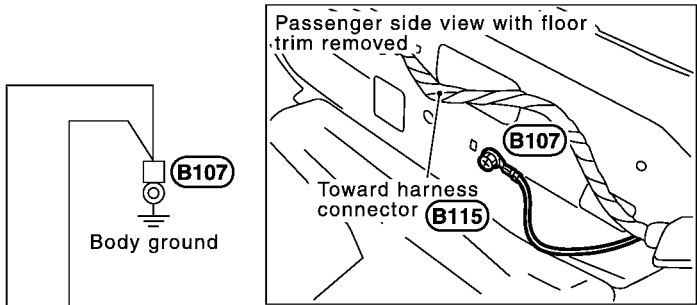


CKWA0154E



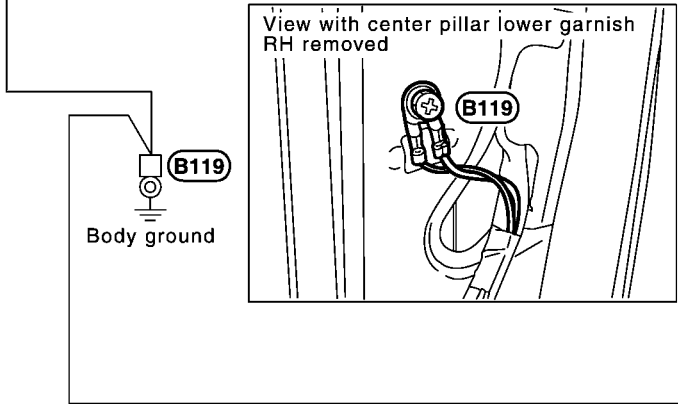
GROUND

BODY NO.2 HARNESS/LHD MODELS



CON-NECTOR NUMBER	CONNECT TO
B111	ESP/TCS/ABS control unit (Terminal No. 28)
B111	ESP/TCS/ABS control unit (Terminal No. 29)

CON-NECTOR NUMBER	CONNECT TO
B110	Heated seat RH
B113	Seat belt buckle switch (Passenger side)
B131	Heated seat switch LH
B132	Heated seat switch RH



CON-NECTOR NUMBER	CONNECT TO
B115	Shield wire [Air bag diagnosis sensor unit (Terminal No. 40)]

A

B

C

D

E

F

G

H

I

J

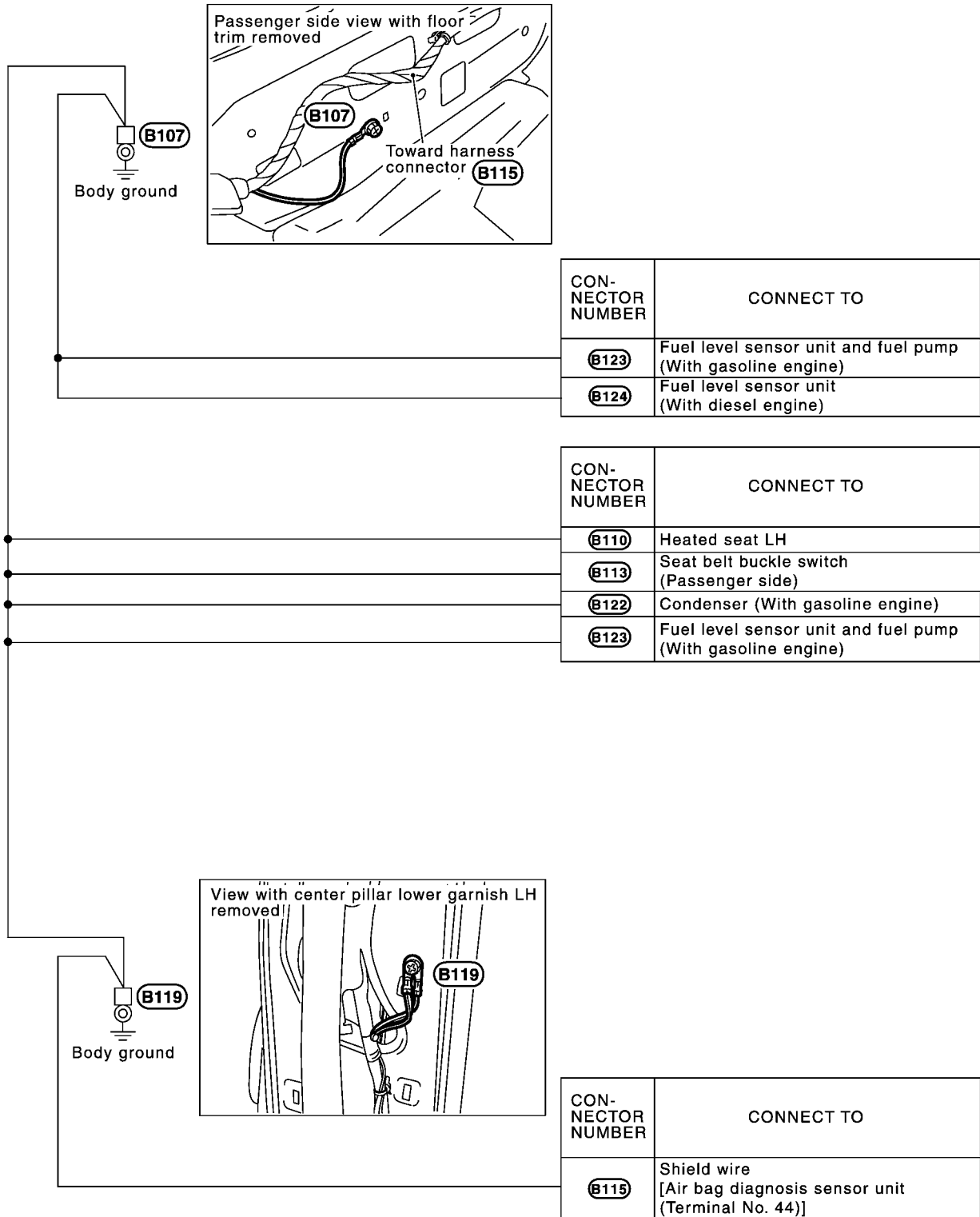
PG

L

M

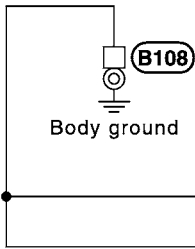
# GROUND

## BODY NO.2 HARNESS/RHD MODELS

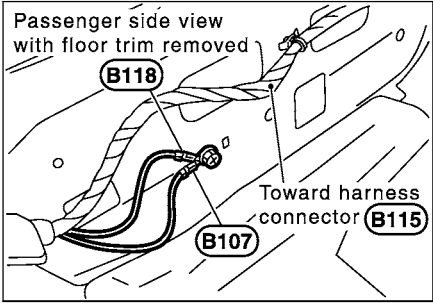


GROUND

BODY NO.2 HARNESS



CON- NECTOR NUMBER	CONNECT TO
B111	ESP/TCS/ABS control unit (Terminal No. 28)
B111	ESP/TCS/ABS control unit (Terminal No. 29)

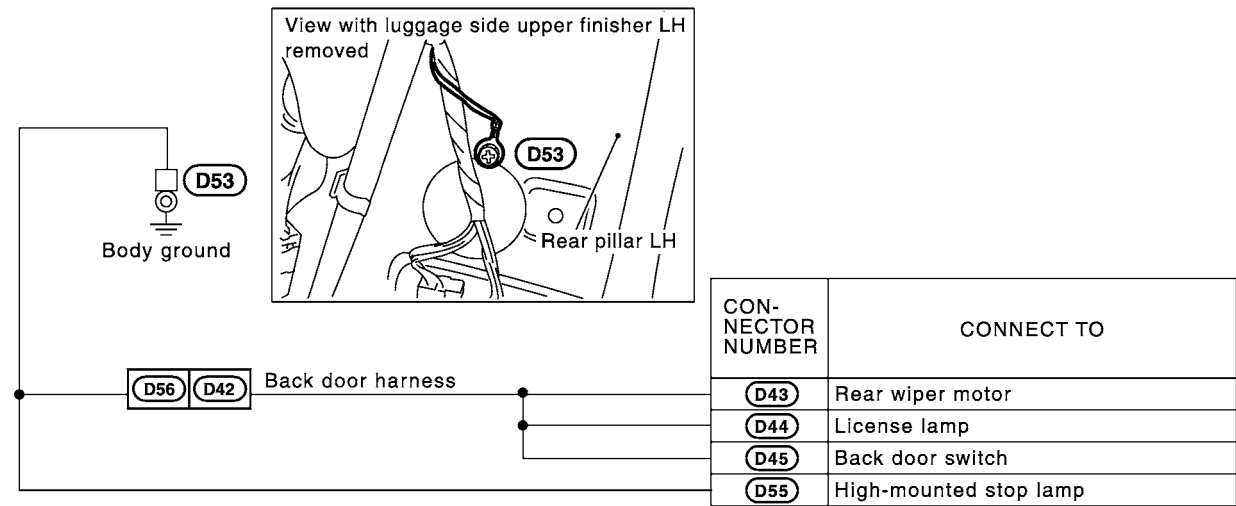


CKWA0056E

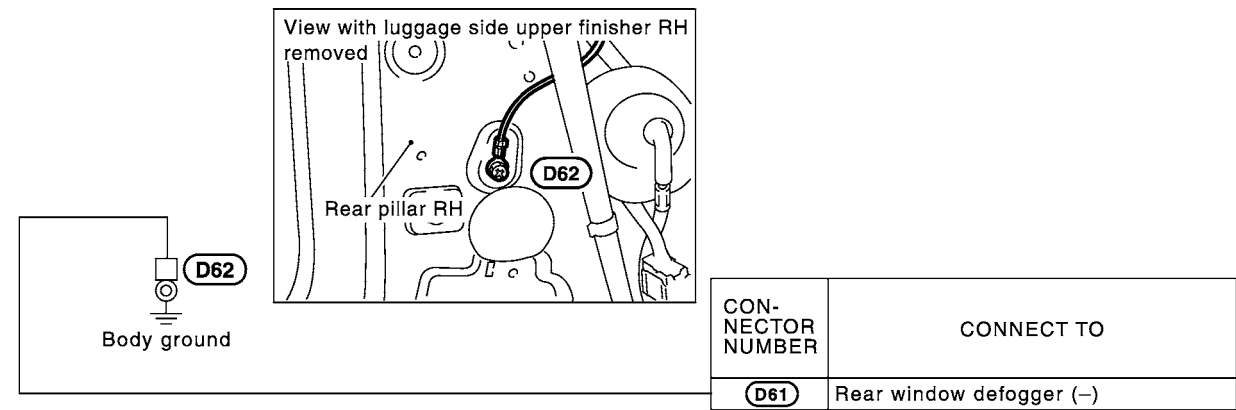
GROUND

BACK DOOR SUB HARNESS/REAR WINDOW DEFOGGER HARNESS

BACK DOOR SUB-HARNESS



REAR WINDOW DEFOGGER HARNESS



HARNESS

PFP:00011

Harness Layout

EKS00321

HOW TO READ HARNESS LAYOUTS

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
- Body No.2 Harness
- Room Lamp Harness
- Door Harness

To use the grid reference

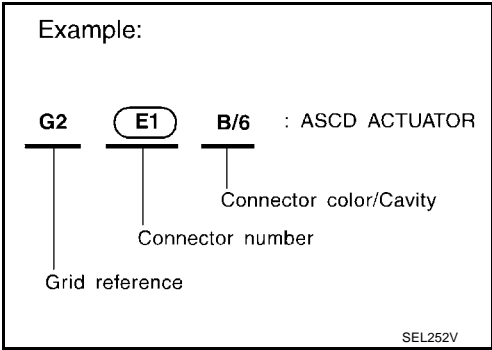
1. Find the desired connector number on the connector list.
2. Find the grid reference.
3. On the drawing, find the crossing of the grid reference letter column and number row.
4. Find the connector number in the crossing zone.
5. Follow the line (if used) to the connector.

CONNECTOR SYMBOL

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

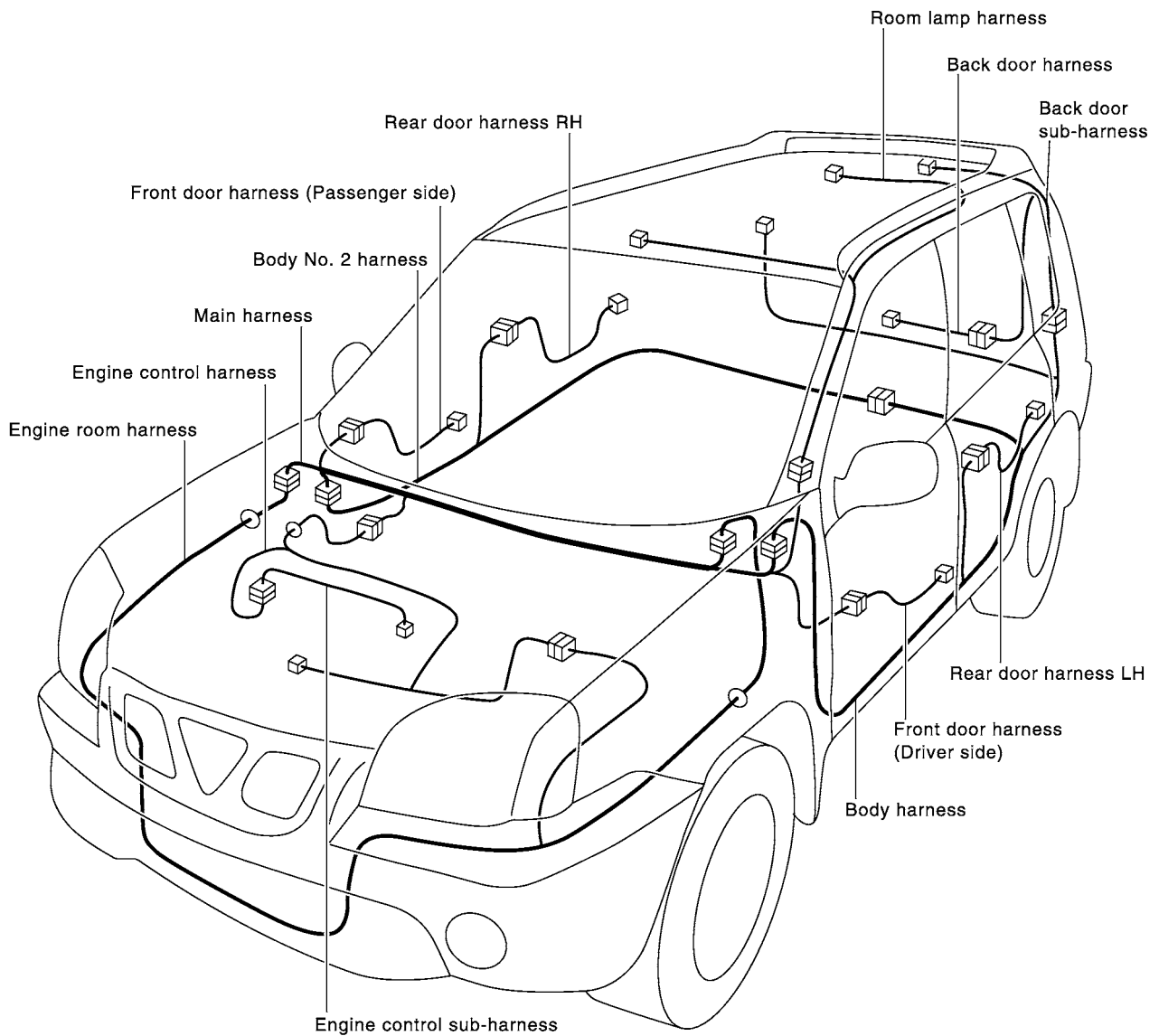
Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
• Cavity: Less than 4 • Relay connector				
• Cavity: From 5 to 8				
• Cavity: More than 9	—	—		
• Ground terminal etc.	—			

SKIA0404E



# HARNESS

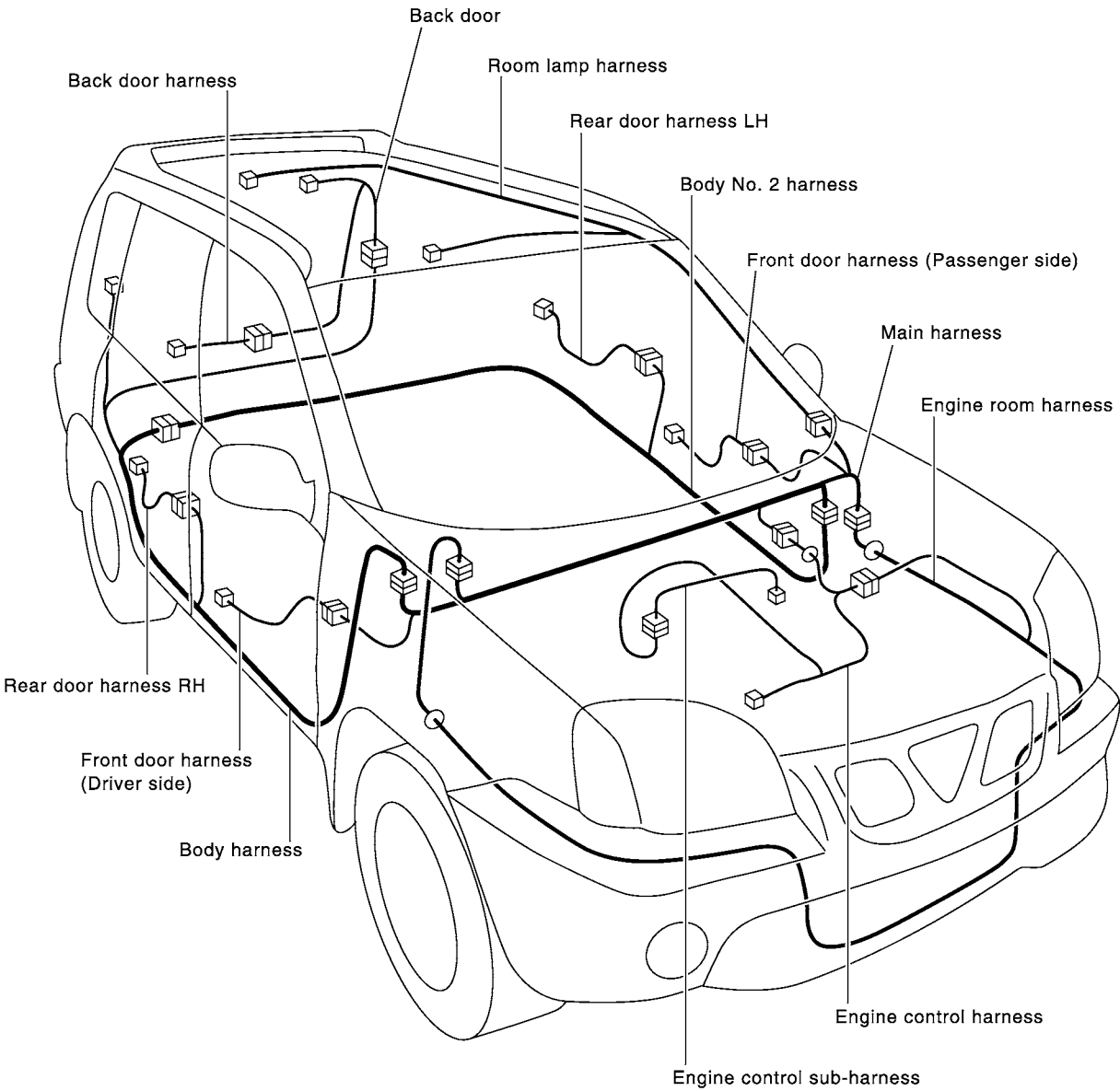
## OUTLINE/LHD MODELS



CKWA0058E

# HARNESS

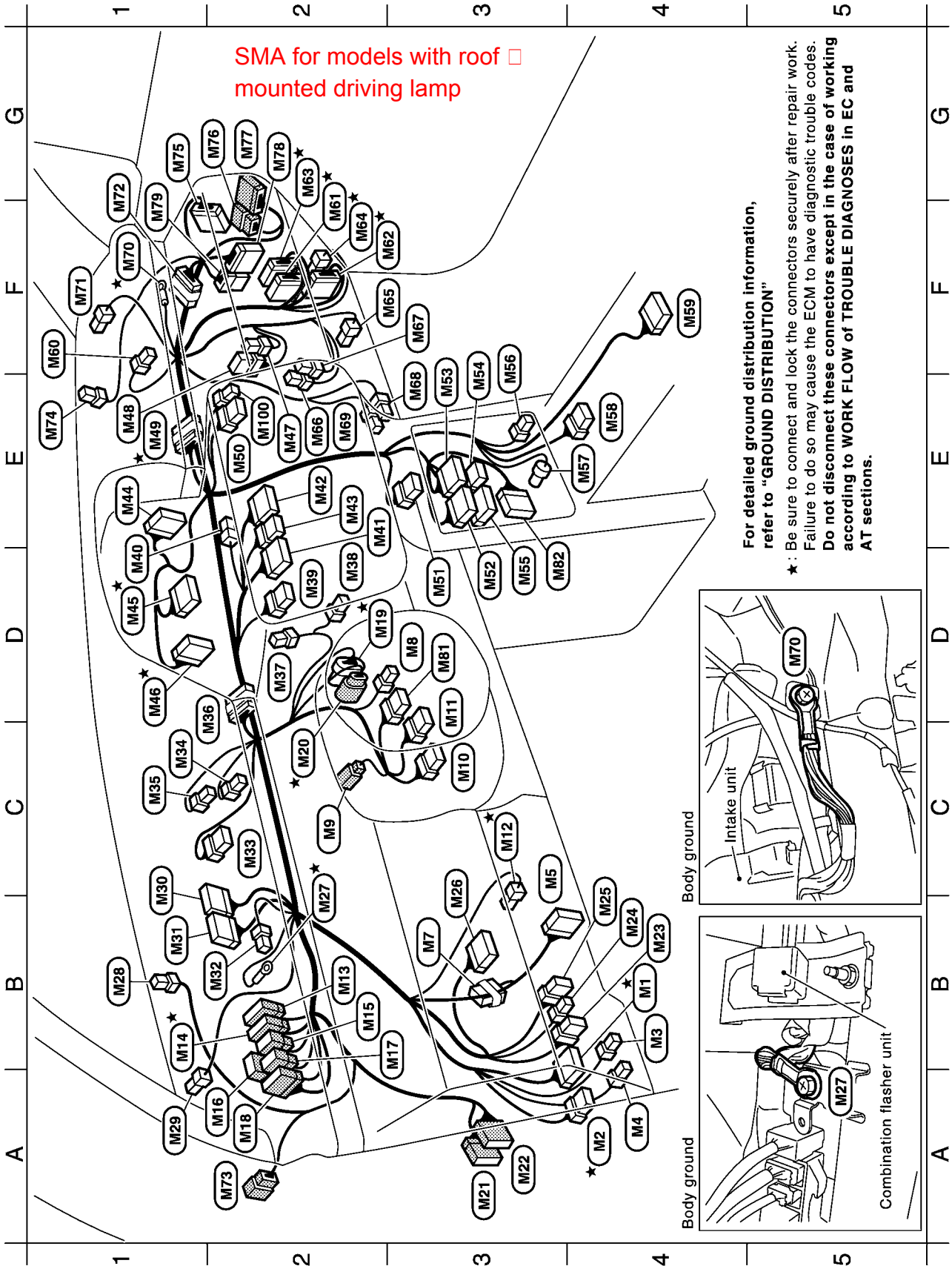
## OUTLINE/RHD MODELS



A
B
C
D
E
F
G
H
I
J
<b>PG</b>
L
M

# HARNESS

## MAIN HARNESS/LHD MODELS



CKWA0157E

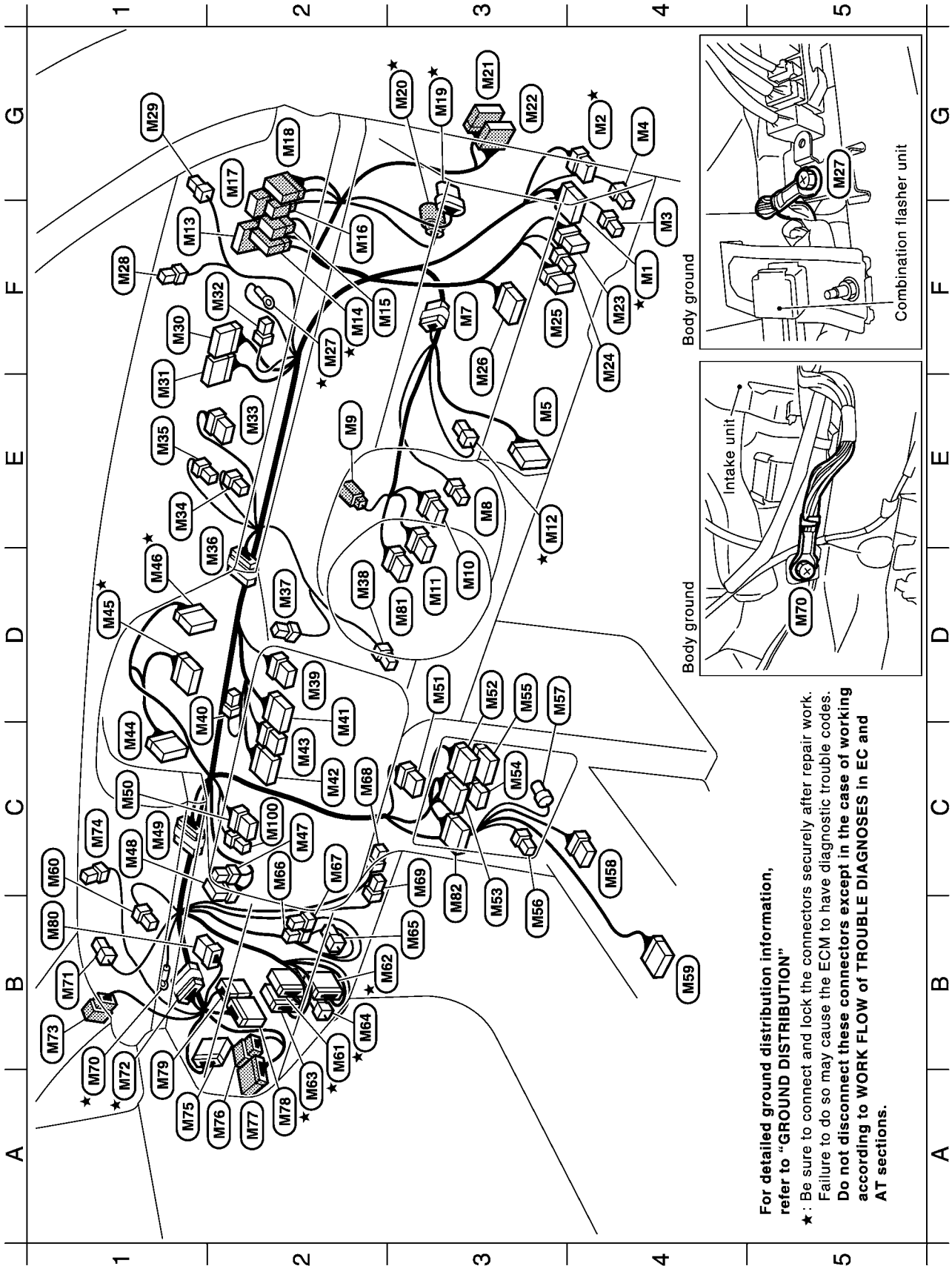


★	(M1)	W/16	: Fuse block (J/B)	E1	(M44)	BR/24	: Combination meter		
★	(M2)	W/10	: Fuse block (J/B)	D1	★	(M45)	W/20	: Combination meter	
B4	(M3)	L/4	: Power window relay	D1	★	(M46)	W/24	: Combination meter	
A4	(M4)	W/2	: Circuit breaker (PTC)	E2	(M47)	W/3	: Intake door motor (With auto A/C)		
C3	(M5)	W/16	: Date link connector	E1	★	(M48)	B/6	: Intake door motor (With manual A/C)	
B3	(M7)	W/6	: Option connector for theft warning system	E1	★	(M49)	OR/20	: Joint connector-2	
D3	(M8)	L/4	: Cigarette lighter relay	E2	(M50)	W/6	: Rear window defogger switch		
C2	(M9)	BR/2	: Key switch	D3	(M51)	W/8	: Hazard switch		
C3	(M10)	Y/6	: Combination switch (Spiral cable)	D3	(M52)	GY/20	: A/C auto amp. (With auto A/C)		
D3	(M11)	GY/8	: Combination switch (Spiral cable)	E3	(M53)	GY/16	: A/C auto amp. (With auto A/C)		
★	(M12)	B/2	: Stop lamp switch	E3	(M54)	W/6	: Fan switch (With manual A/C)		
B2	(M13)	W/10	: To (E105)	D3	(M55)	W/12	: Heater control panel (With manual A/C)		
B1	★	(M14)	BR/16	: To (E106)	F3	(M56)	L/4	: Cigarette lighter socket	
B2	(M15)	GY/6	: To (E107)	E4	(M57)	GY/4	: G sensor		
A2	(M16)	W/6	: To (B3)	E4	(M58)	W/8	: A/T device		
B3	(M17)	W/8	: To (B1)	F4	(M59)	Y/20	: Air bag diagnosis sensor unit		
A2	(M18)	BR/20	: To (B2)	F1	(M60)	Y/2	: Front passenger air bag module		
D2	★	(M19)	GY/6	: Accelerator pedal position sensor (With gasoline engine)	F2	★	(M61)	BR/24	: To (F41) (With gasoline engine)
C2	★	(M20)	GY/8	: Accelerator work unit (With diesel engine)	F2	★	(M62)	W/16	: To (F42) (With gasoline engine)
A3	(M21)	W/16	: To (D1)	G2	★	(M63)	BR/24	: To (F30) (With diesel engine)	
A3	(M22)	BR/12	: To (D2)	F2	★	(M64)	W/4	: To (F29) (With diesel engine)	
B4	(M23)	GY/8	: Headlamp washer switch	F2	(M65)	W/2	: Blower motor		
B4	(M24)	W/4	: Headlamp aiming switch	E2	(M66)	BR/4	: Fan resistor (With manual A/C)		
B4	(M25)	GY/6	: ESP off switch (With ESP)	F3	(M67)	W/4	: Fan control amp. (With auto A/C)		
C3	(M26)	W/10	: Door mirror remote control switch	E3	(M68)	W/4	: Intake sensor (Gasoline engine with auto A/C)		
B2	★	(M27)	-	: Body ground	E2	★	(M69)	W/2	: Intake sensor (Diesel engine with auto A/C)
B1	(M28)	BR/2	: Security indicator lamp	F1	(M70)	-	: Body ground		
A1	(M29)	BR/2	: Tweeter LH	F1	(M71)	BR/2	: Tweeter RH		
C1	(M30)	GY/16	: Time control unit	F1	(M72)	L/20	: Joint connector-3		
B1	(M31)	GY/20	: Time control unit	A2	(M73)	W/6	: To (R1)		
B2	(M32)	B/3	: Combination flasher unit	E1	(M74)	B/2	: Sunload sensor (With auto A/C)		
C2	(M33)	BR/8	: Multi-remote control unit	G1	(M75)	BR/20	: To (E116)		
C1	(M34)	W/2	: In-vehicle sensor (With auto A/C)	G2	(M76)	BR/8	: To (D12)		
C1	(M35)	B/2	: Front power socket	G2	(M77)	W/12	: To (D11)		
D1	(M36)	OR/20	: Joint connector-1	G2	(M78)	W/12	: To (B105)		
D2	(M37)	W/3	: Mode door motor (With auto A/C)	F1	(M79)	W/8	: To (B106)		
D2	(M38)	W/3	: Air mix door motor (With auto A/C)	D3	(M81)	W/8	: Steering wheel angle sensor (With ESP)		
D2	(M39)	GY/6	: 4WD mode switch	D3	(M82)	W/16	: CD autochanger		
D1	(M40)	W/2	: Antenna amp.	E2	(M100)	W/4	: Seat belt warning lamp (Passenger side)		
E2	(M41)	W/12	: Audio unit						
E2	(M42)	W/16	: Audio unit						
E2	(M43)	W/8	: Audio unit						

# HARNESS

## MAIN HARNESS/RHD MODELS

SMA for models with roof mounted driving lamp



CKWA0159E

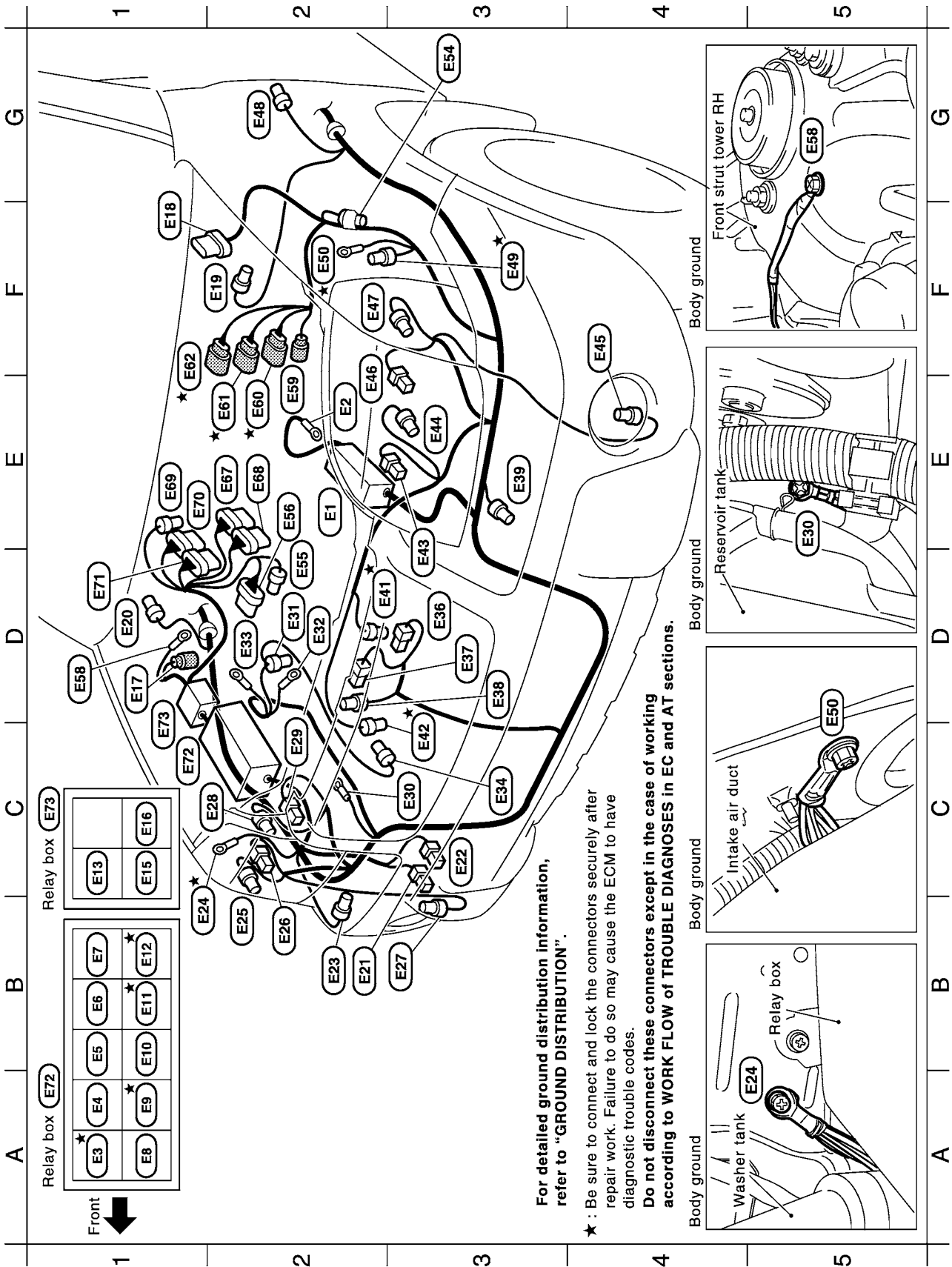
F4	★	M1	W/16	: Fuse block (J/B)	C1	M44	W/24	: Combination meter
G4	★	M2	W/10	: Fuse block (J/B)	D1	M45	BR/20	: Combination meter
F4		M3	L/4	: Power window relay	D1	M46	BR/24	: Combination meter
G4		M4	W/2	: Circuit breaker (PTC)	C2	M47	W/3	: Intake door motor (With auto A/C)
E3		M5	W/16	: Date link connector	C1	M48	B/6	: Intake door motor (With manual A/C)
F3		M7	W/6	: Option connector for theft warning system	C1	M49	OR/20	: Joint connector-2
E3		M8	L/4	: Cigarette lighter relay	C1	M50	W/6	: Rear window defogger switch
E2		M9	BR/2	: Key switch	D3	M51	W/8	: Hazard switch
D3		M10	Y/6	: Combination switch (Spiral cable)	D3	M52	GY/20	: A/C auto amp. (With auto A/C)
D3		M11	GY/8	: Combination switch (Spiral cable)	B3	M53	GY/16	: A/C auto amp. (With auto A/C)
E3	★	M12	B/2	: Stop lamp switch	C3	M54	W/6	: Fan switch (With manual A/C)
F1	★	M13	W/10	: To E105	D3	M55	W/12	: Heater control panel (With manual A/C)
F2		M14	BR/16	: To E106	B3	M56	L/4	: Cigarette lighter socket
F2		M15	GY/6	: To E107	D3	M57	GY/4	: G sensor
F2		M16	W/6	: To B3	C4	M58	W/8	: A/T device
G2		M17	W/8	: To B1	B4	M59	Y/20	: Air bag diagnosis sensor unit
G2		M18	BR/20	: To B2	C1	M60	Y/2	: Front passenger air bag module
G3	★	M19	GY/6	: Accelerator pedal position sensor (With gasoline engine)	B2	M61	BR/24	: To E41 (With gasoline engine)
G3	★	M20	GY/8	: Accelerator work unit (With diesel engine)	B2	M62	W/16	: To E42 (With gasoline engine)
G3		M21	W/16	: To D1	A2	M63	BR/24	: To F30 (With diesel engine)
G3		M22	BR/12	: To D2	B2	M64	W/4	: To F29 (With diesel engine)
F4		M23	GY/8	: Headlamp washer switch	B3	M65	W/2	: Blower motor
F4		M24	W/4	: Headlamp aiming switch	C2	M66	BR/4	: Fan resistor (With manual A/C)
F3		M25	GY/6	: ESP off switch (With ESP)	C2	M67	W/4	: Fan control amp. (With auto A/C)
F3	★	M26	W/10	: Door mirror remote control switch	C2	M68	W/4	: Intake sensor (Gasoline engine with auto A/C)
F2		M27	-	: Body ground	C3	M69	W/2	: Intake sensor (Diesel engine with auto A/C)
F1		M28	BR/2	: Security indicator lamp	B1	M70	-	: Body ground
G1		M29	BR/2	: Tweeter LH	B1	M71	BR/2	: Tweeter RH
F1		M30	GY/16	: Time control unit	A1	M72	L/20	: Joint connector-3
E1		M31	GY/20	: Time control unit	B1	M73	W/6	: To R1
F2		M32	B/3	: Combination flasher unit	C1	M74	B/2	: Sunload sensor (With auto A/C)
E2		M33	BR/8	: Multi-remote control unit	A1	M75	BR/20	: To E116
E1		M34	W/2	: In-vehicle sensor (With auto A/C)	A2	M76	BR/8	: To D12
E1		M35	B/2	: Front power socket	A2	M77	W/12	: To D11
D2		M36	OR/20	: Joint connector-1	A2	M78	W/12	: To B105
D2		M37	W/3	: Mode door motor (With auto A/C)	A1	M79	W/8	: To B106
D2		M38	W/3	: Air mix door motor (With auto A/C)	B1	M80	BR/8	: Dongle unit
D2		M39	GY/6	: 4WD mode switch	D3	M81	W/8	: Steering wheel angle sensor (With ESP)
D1		M40	W/2	: Antenna amp.	B3	M82	W/16	: CD autochanger
D2		M41	W/12	: Audio unit	C2	M100	W/4	: Seat belt warning lamp (Passenger side)
C2		M42	W/16	: Audio unit				
C2		M43	W/8	: Audio unit				

# HARNESS

## ENGINE ROOM HARNESS/LHD MODELS

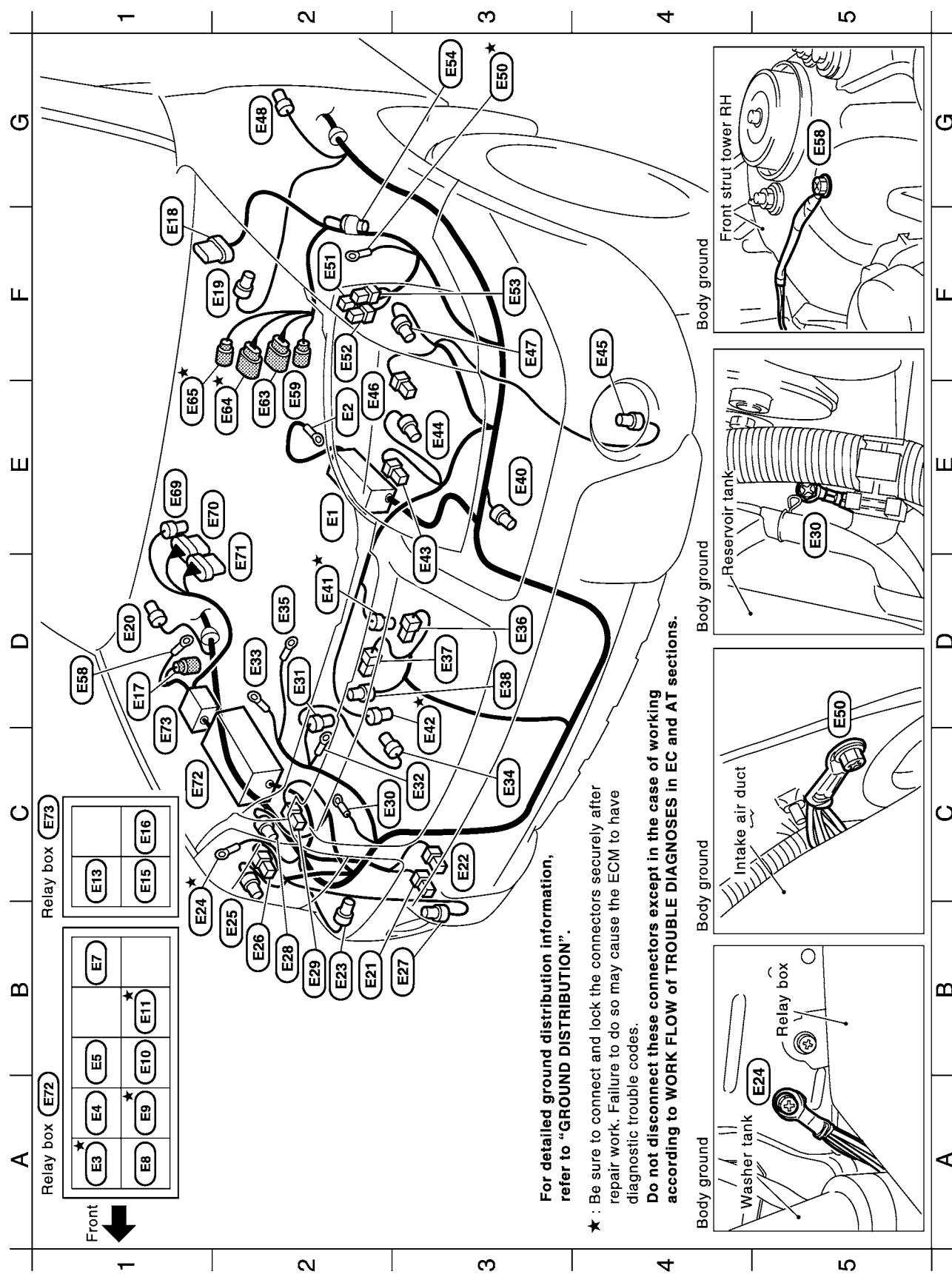
### Gasoline Engine Models

SMA for models with roof mounted driving lamp



E2	E1	-	: Fuse and Fusible link box	E3	E44	B/3	: Headlamp aiming motor LH
E2	E2	-	: Battery (+)	F4	E45	GY/2	: Front fog lamp LH
A1	E3	BR/6	: Cooling fan relay-1	E2	E46	B/3	: Headlamp LH
A1	E4	W/3	: Horn relay	F2	E47	GY/2	: Front turn signal lamp LH
B1	E5	L/4	: Air conditioner relay (With auto A/C)	G2	E48	BR/2	: Side turn signal lamp LH
B1	E6	L/4	: Park/Neutral position relay (With A/T)	F3	E49	GY/2	: Dropping resistor (With A/T)
B1	E7	L/4	: Front fog lamp relay	F2	E50	-	: Body ground
A1	E8	BR/6	: Headlamp washer timer	G3	E54	GY/2	: Option connector for hood switch
A1	E9	BR/6	: Cooling fan relay-2	D2	E55	B/2	: ESP relay box (With ESP)
B1	E10	B/5	: 4WD actuator relay	E2	E56	B/8	: ESP relay box (With ESP)
B1	E11	BR/6	: Cooling fan relay-3	D1	E58	-	: Body ground
B1	E12	L/4	: Throttle control motor relay	E2	E59	BR/2	: Front wheel sensor LH
C1	E13	L/4	: Daytime light relay LH (With daytime light system)	E2	E60	GY/9	: To F36
C1	E15	L/4	: Rear fog lamp relay	E2	E61	DGY/8	: To F38
C1	E16	L/4	: Daytime light relay RH (With daytime light system)	F1	E62	GY/8	: To F37
D1	E17	GY/2	: Front wheel sensor RH	E2	E67	DGY/8	: ESP actuator (With ESP)
F1	E18	GY/6	: Front wiper motor	E2	E68	SB/8	: ESP actuator (With ESP)
F2	E19	GY/2	: Brake fluid level switch	E1	E69	B/2	: ABS actuator (Without ESP)
D1	E20	BR/2	: Side turn signal lamp RH	E1	E70	B/8	: ABS actuator (Without ESP)
B2	E21	W/2	: Front washer motor	D1	E71	GY/8	: ABS actuator (Without ESP)
C3	E22	G/2	: Rear washer motor	A1, C1	E72	-	: Relay box
B2	E23	GY/2	: Headlamp washer motor	C1	E73	-	: Relay box
B1	E24	-	: Body ground				
B2	E25	GY/2	: Front turn signal lamp RH				
B2	E26	B/3	: Headlamp RH				
B3	E27	GY/2	: Front fog lamp RH				
C2	E28	B/3	: Headlamp aiming motor RH				
C2	E29	B/2	: Parking lamp RH				
C3	E30	-	: Body ground				
D2	E31	GY/2	: Alternator				
D2	E32	-	: Alternator				
D2	E33	-	: Alternator				
C3	E34	B/1	: Compressor (With auto A/C)				
D3	E36	B/1	: Horn high				
D3	E37	B/1	: Horn low				
D3	E38	B/2	: Ambient sensor (With auto A/C)				
E3	E39	B/3	: Refrigerant pressure sensor (With auto A/C)				
D2	E41	GY/4	: Cooling fan motor-1				
C3	E42	GY/4	: Cooling fan motor-2				
D3	E43	B/2	: Parking lamp LH				

Diesel Engine Models



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

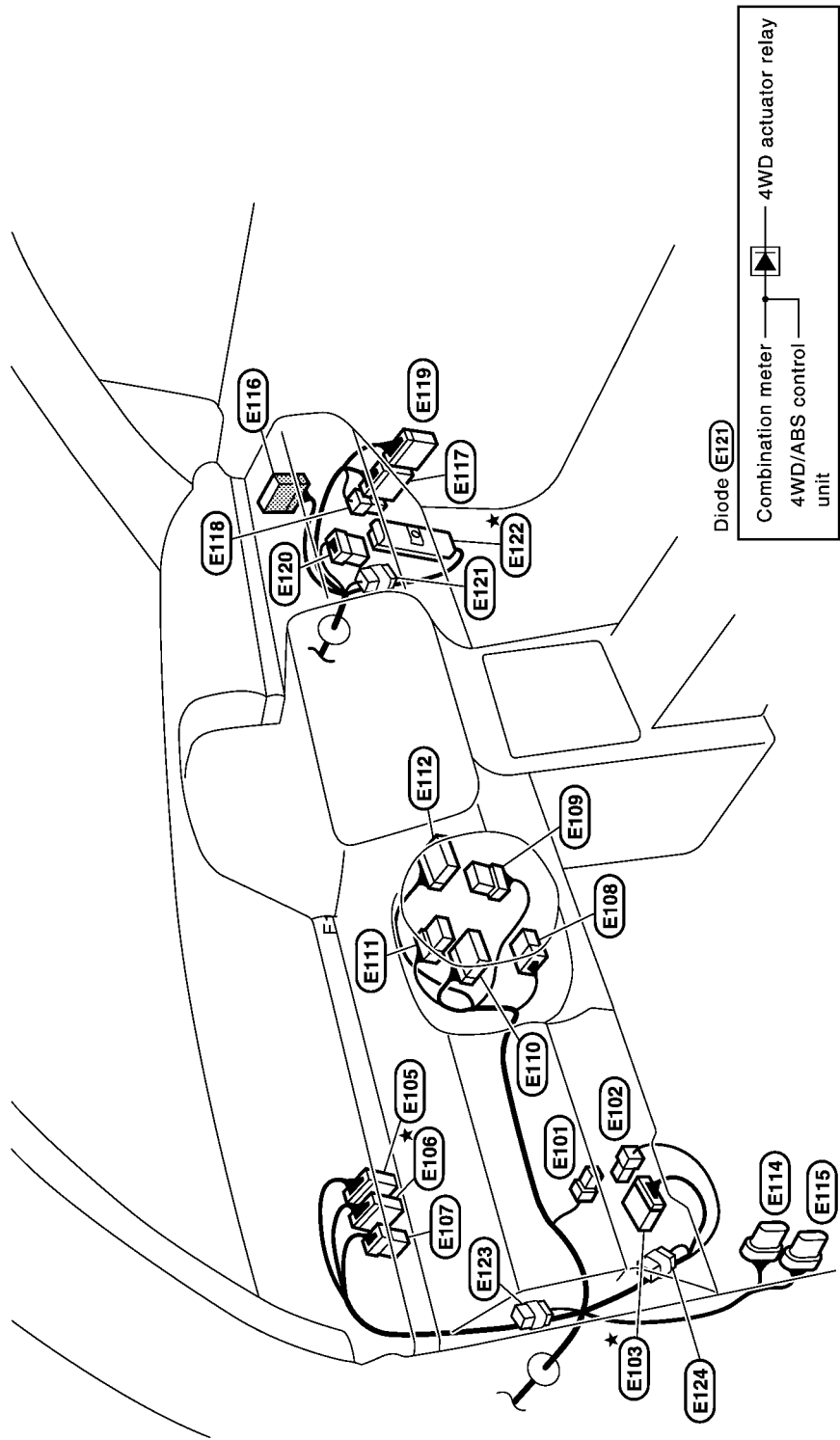
★ : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.

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

E2	E1	-	Fuse and Fusible link box	E3	E44	B/3	Headlamp aiming motor LH
E2	E2	-	Battery (+)	F4	E45	GY/2	Front fog lamp LH
A1	E3	BR/6	Cooling fan relay-1	E2	E46	B/3	Headlamp LH
A1	E4	W/3	Horn relay	F3	E47	GY/2	Front turn signal lamp LH
B1	E5	L/4	Air conditioner relay (With auto A/C)	G2	E48	BR/2	Side turn signal lamp LH
B1	E7	L/4	Front fog lamp relay	G3	E50	-	Body ground
A1	E8	BR/6	Headlamp washer timer	F2	E51	W/1	Glow relay
A1	E9	BR/6	Cooling fan relay-2	F2	E52	W/1	Glow relay
B1	E10	B/5	4WD actuator relay	F3	E53	G/2	Glow relay
B1	E11	BR/6	Cooling fan relay-3	G3	E54	GY/2	Option connector for hood switch
C1	E13	L/4	Daytime light relay LH (With daytime light system)	D1	E58	-	Body ground
C1	E15	L/4	Rear fog lamp relay	E2	E59	BR/2	Front wheel sensor LH
C1	E16	L/4	Daytime light relay RH (With daytime light system)	E2	E63	GY/8	To F4
D1	E17	GY/2	Front wheel sensor RH	E2	E64	B/6	To F5
F1	E18	GY/6	Front wiper motor	E1	E65	B/2	To F6
F2	E19	GY/2	Brake fluid level switch	E1	E69	B/2	ABS actuator
D1	E20	BR/2	Side turn signal lamp RH	E1	E70	B/8	ABS actuator
B2	E21	W/2	Front washer motor	D2	E71	GY/8	ABS actuator
C3	E22	G/2	Rear washer motor	A1, C1	E72	-	Relay box
B2	E23	GY/2	Headlamp washer motor	C1	E73	-	Relay box
B1	E24	-	Body ground				
B2	E25	GY/2	Front turn signal lamp RH				
B2	E26	B/3	Headlamp RH				
B3	E27	GY/2	Front fog lamp RH				
B2	E28	B/3	Headlamp aiming motor RH				
B2	E29	B/2	Parking lamp RH				
C2	E30	-	Body ground				
D2	E31	GY/2	Alternator				
C3	E32	-	Alternator				
D2	E33	-	Alternator				
C3	E34	B/1	Compressor (With auto A/C)				
D2	E35	-	Glow plug				
D3	E36	B/1	Horn high				
D3	E37	B/1	Horn low				
D3	E38	B/2	Ambient sensor (With auto A/C)				
E3	E40	B/2	Dual-pressure switch (With auto A/C)				
D2	E41	GY/4	Cooling fan motor-1				
C3	E42	GY/4	Cooling fan motor-2				
D3	E43	B/2	Parking lamp LH				

CKWA0067E

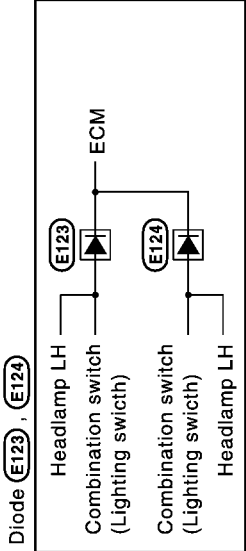
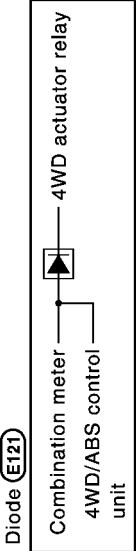
Passenger Compartment



- (E101) B/2 : Fuse block (J/B)  
(E102) W/4 : Fuse block (J/B)  
(E103) W/12 : Fuse block (J/B)  
(E104) W/10 : To (M13)  
(E105) BR/16 : To (M14)  
(E106) GY/6 : To (M15)  
(E107) W/6 : Ignition switch  
(E108) W/8 : NATS IMMU  
(E109) BR/12 : Combination switch (Lighting switch)  
(E110) W/8 : Combination switch (Fog lamp switch)  
(E111) GY/12 : Combination switch (Wiper and washer switch)  
(E112) GY/6 : Daytime light control unit

- (E115) GY/8 : Daytime light control unit  
(E116) BR/20 : To (M75)  
(E117) W/16 : To (B101) (With ESP)  
(E118) B/2 : To (B102) (With ESP)  
(E119) W/20 : To (B103) (With ESP)  
(E120) W/8 : To (B104) (Without ESP)  
(E121) W/2 : Diode  
(E122) SMJ : 4WD control unit (With ESP)  
(E123) SMJ : 4WD/ABS control unit (Without ESP)  
(E124) W/2 : Diode  
(E125) W/2 : Diode

- (E126) GY/8 : Daytime light control unit  
(E127) BR/20 : To (M75)  
(E128) W/16 : To (B101) (With ESP)  
(E129) B/2 : To (B102) (With ESP)  
(E130) W/20 : To (B103) (With ESP)  
(E131) W/8 : To (B104) (Without ESP)  
(E132) W/2 : Diode  
(E133) SMJ : 4WD control unit (With ESP)  
(E134) SMJ : 4WD/ABS control unit (Without ESP)  
(E135) W/2 : Diode  
(E136) W/2 : Diode



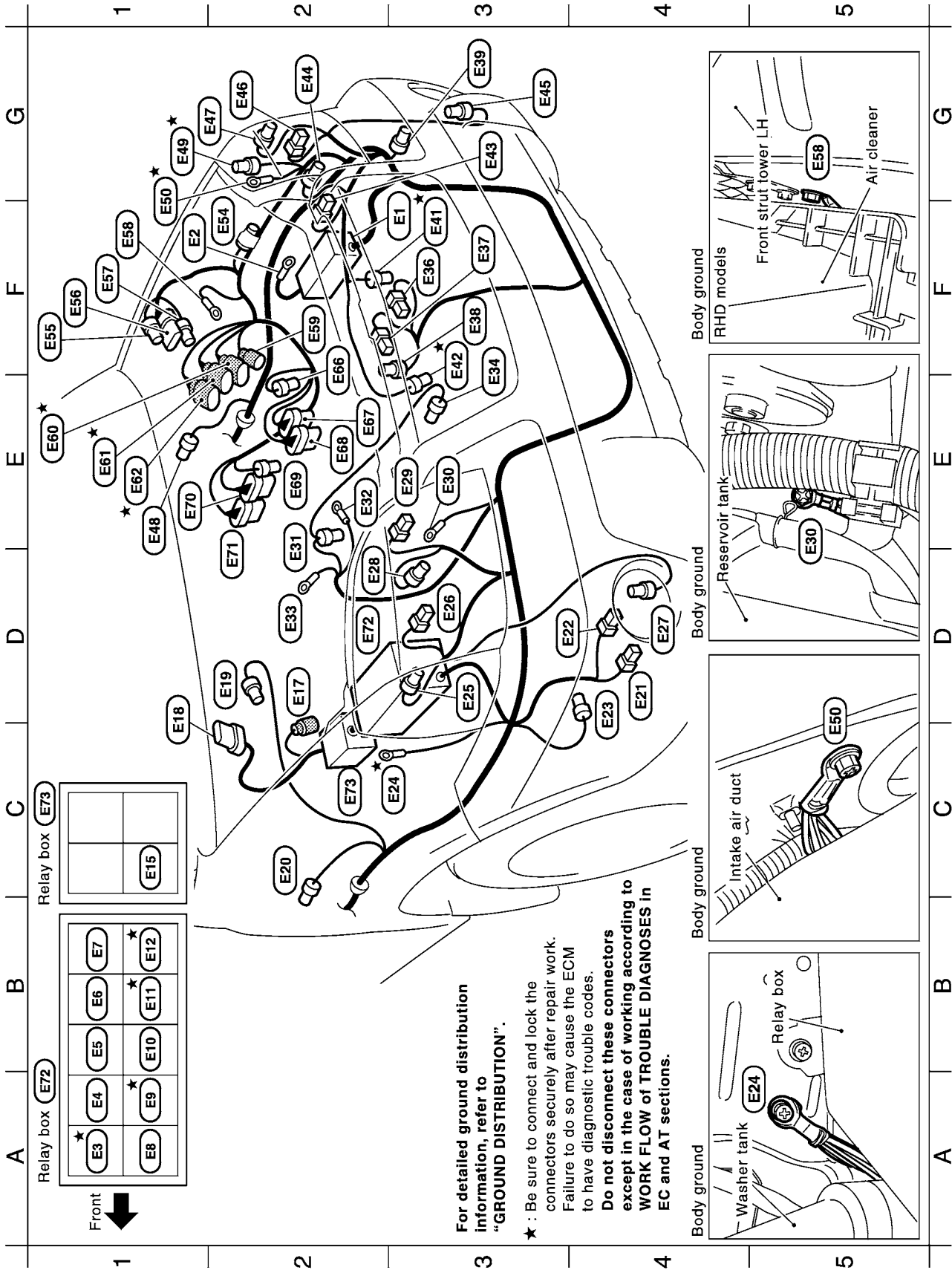
★: Be sure to connect and lock the connectors securely after repair work.  
Failure to do so may cause the ECM to have diagnostic trouble codes.  
**Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.**



HARNESS

ENGINE ROOM HARNESS/RHD MODELS  
Gasoline Engine Models

SMA for models with roof mounted driving lamp



F3	(E1)	-	Fuse and Fusible link box	G2	(E44)	B/3	Headlamp aiming motor LH
F1	(E2)	-	Battery (+)	G3	(E45)	GY/2	Front fog lamp LH
A1	(E3)	★	BR/6 : Cooling fan relay-1	G2	(E46)	B/3	Headlamp LH
A1	(E4)		W/3 : Horn relay	G2	(E47)	GY/2	Front turn signal lamp LH
B1	(E5)		L/4 : Air conditioner relay (With auto A/C)	E1	(E48)	BR/2	Side turn signal lamp LH
B1	(E6)		L/4 : Park/Neutral position relay (With A/T)	G1	★ (E49)	GY/2	Dropping resistor (With A/T)
B1	(E7)		L/4 : Front fog lamp relay	G1	★ (E50)	-	Body ground
A1	(E8)		BR/6 : Headlamp washer timer	F2	(E54)	GY/2	Option connector for hood switch
A1	★ (E9)		BR/6 : Cooling fan relay-2	F1	(E55)	B/2	ESP relay box (With ESP)
B1	(E10)		B/5 : 4WD actuator relay	F1	(E56)	B/8	ESP relay box (With ESP)
B1	★ (E11)		BR/6 : Cooling fan relay-3	F1	(E57)	GY/2	ESP relay box (With ESP)
B1	★ (E12)		L/4 : Throttle control motor relay	F1	(E58)	-	Body ground
C1	(E15)		L/4 : Rear fog lamp relay	F2	(E59)	BR/2	Front wheel sensor LH
D2	(E17)		GY/2 : Front wheel sensor RH	E1	★ (E60)	GY/9	To (F36)
D1	(E18)		GY/6 : Front wiper motor	E1	★ (E61)	DGY/8:	To (F38)
D2	(E19)		GY/2 : Brake fluid level switch	E1	★ (E62)	GY/8	To (F37)
C2	(E20)		BR/2 : Side turn signal lamp RH	F2	(E66)	B/2	ESP actuator (With ESP)
D4	(E21)		W/2 : Front washer motor	E2	(E67)	DGY/8:	ESP actuator (With ESP)
D4	(E22)		G/2 : Rear washer motor	E2	(E68)	SB/8	ESP actuator (With ESP)
D4	(E23)		GY/2 : Headlamp washer motor	E2	(E69)	GY/2	ABS actuator (Without ESP)
C3	★ (E24)		- : Body ground	E1	(E70)	B/8	ABS actuator (Without ESP)
D3	(E25)		GY/2 : Front turn signal lamp RH	D2	(E71)	GY/8	ABS actuator (Without ESP)
D3	(E26)		B/3 : Headlamp RH	A1, D2	(E72)	-	Relay box
D4	(E27)		GY/2 : Front fog lamp RH	C1, C2	(E73)	-	Relay box
D2	(E28)		B/3 : Headlamp aiming motor RH				
E3	(E29)		B/2 : Parking lamp RH				
E3	(E30)		- : Body ground				
E2	(E31)		GY/2 : Alternator				
E2	(E32)		- : Alternator				
D2	(E33)		- : Alternator				
F3	(E34)		B/1 : Compressor (With auto A/C)				
F3	(E36)		B/1 : Horn high				
F3	(E37)		B/1 : Horn low				
F3	(E38)		B/2 : Ambient sensor				
G3	(E39)		B/3 : Refrigerant pressure sensor (With auto A/C)				
F3	★ (E41)		GY/4 : Cooling fan motor-1				
F3	★ (E42)		GY/4 : Cooling fan motor-2				
G3	(E43)		B/2 : Parking lamp LH				

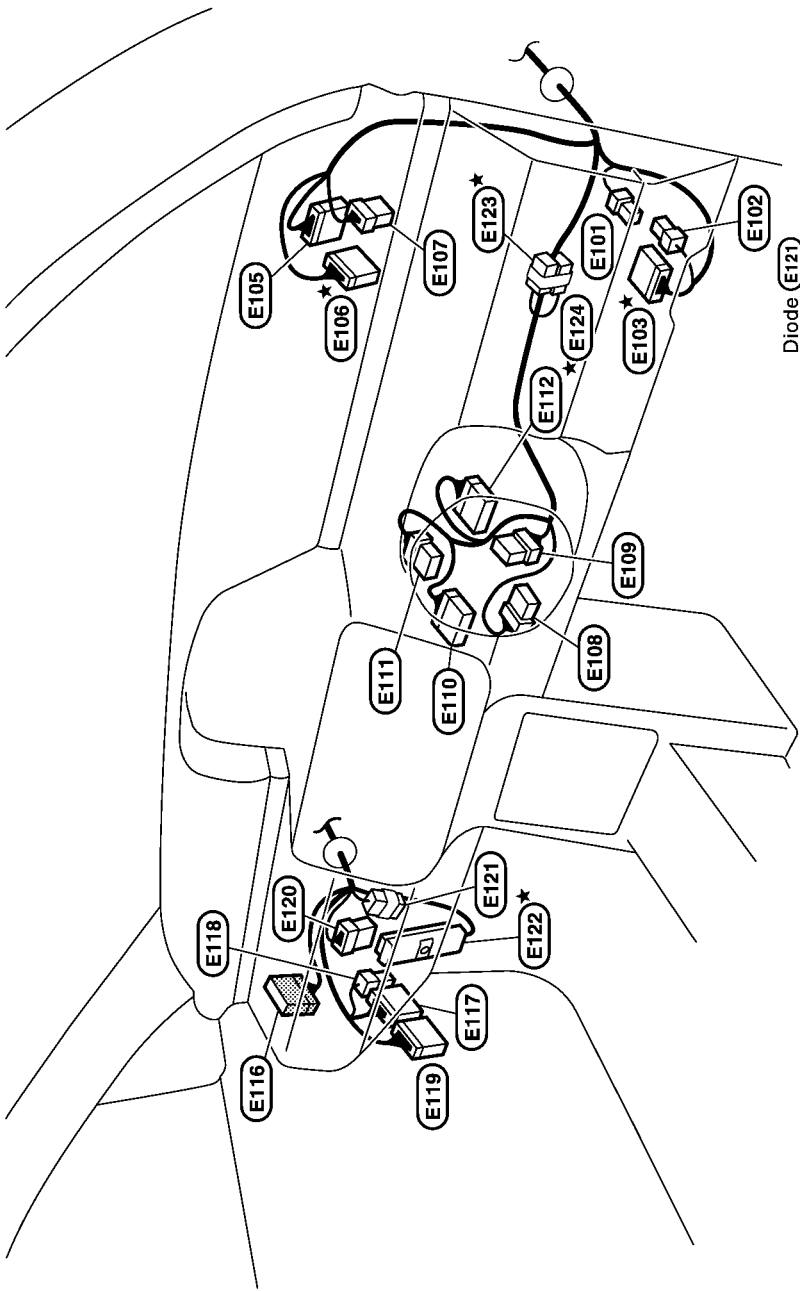
A  
B  
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## PG



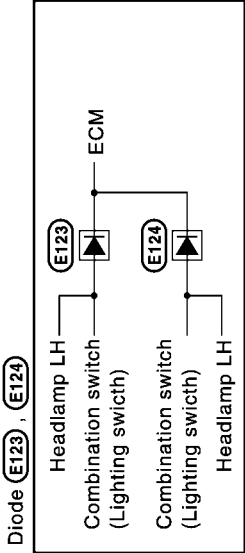
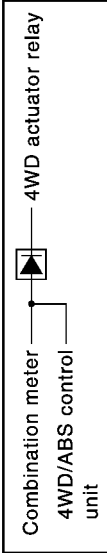
F2	(E1)	-	Fuse and Fusible link box	G2	(E44)	B/3	Headlamp aiming motor LH
F1	(E2)	-	Battery (+)	G3	(E45)	GY/2	Front fog lamp LH
A1	(E3)	BR/6	Cooling fan relay-1	G2	(E46)	B/3	Headlamp LH
A1	(E4)	W/3	Horn relay	G2	(E47)	GY/2	Front turn signal lamp LH
B1	(E5)	L/4	Air conditioner relay (With auto A/C)	E1	(E48)	BR/2	Side turn signal lamp LH
B1	(E7)	L/4	Front fog lamp relay	G1	(E50)	-	Body ground
A1	(E8)	BR/6	Headlamp washer timer	G1	(E51)	W/1	Glow relay
A1	(E9)	BR/6	Cooling fan relay-2	G1	(E52)	W/1	Glow relay
B1	(E10)	B/5	4WD actuator relay	G1	(E53)	G/2	Glow relay
B1	(E11)	BR/6	Cooling fan relay-3	F1	(E54)	GY/2	Option connector for hood switch
C1	(E15)	L/4	Rear fog lamp relay	F1	(E58)	-	Body ground
D2	(E17)	GY/2	Front wheel sensor RH	F2	(E59)	BR/2	Front wheel sensor LH
C1	(E18)	GY/6	Front wiper motor	F1	(E63)	GY/8	To (F4)
D1	(E19)	GY/2	Brake fluid level switch	F1	(E64)	B/6	To (F5)
C2	(E20)	BR/2	Side turn signal lamp RH	E1	(E65)	B/2	To (F6)
D4	(E21)	W/2	Front washer motor	E2	(E69)	GY/2	ABS actuator
D3	(E22)	G/2	Rear washer motor	E2	(E70)	B/8	ABS actuator
D4	(E23)	GY/2	Headlamp washer motor	E1	(E71)	GY/8	ABS actuator
C2	(E24)	-	Body ground	A1, D2	(E72)	-	Relay box
D3	(E25)	GY/2	Front turn signal lamp RH	C1, C2	(E73)	-	Relay box
D3	(E26)	B/3	Headlamp RH				
D4	(E27)	GY/2	Front fog lamp RH				
D2	(E28)	B/3	Headlamp aiming motor RH				
E2	(E29)	B/2	Parking lamp RH				
E3	(E30)	-	Body ground				
E2	(E31)	GY/2	Alternator				
E3	(E32)	-	Alternator				
D2	(E33)	-	Alternator				
F3	(E34)	B/1	Compressor (With auto A/C)				
E2	(E35)	-	Glow plug				
F3	(E36)	B/1	Horn high				
F3	(E37)	B/1	Horn low				
F3	(E38)	B/2	Ambient sensor				
G3	(E40)	B/2	Dual-pressure switch (With auto A/C)				
F3	(E41)	GY/4	Cooling fan moter-1				
F3	(E42)	GY/4	Cooling fan moter-2				
G3	(E43)	B/2	Parking lamp LH				

Passenger Compartment



- E101 : Fuse block (J/B)
- E102 : Fuse block (J/B)
- E103 : Fuse block (J/B)
- E105 : To M13
- E106 : To M14
- E107 : To M15
- E108 : Ignition switch
- E109 : NATS IMMU
- E110 : Combination switch (Lighting switch)
- E111 : Combination switch (Fog lamp switch)
- E112 : Combination switch (Wiper and washer switch)
- E116 : To M75

- E117 : To B101 (With ESP)
- E118 : To B102 (With ESP)
- E119 : To B103 (With ESP)
- E120 : To B104 (Without ESP)
- E121 : Diode
- E122 : 4WD control unit (With ESP)
- E123 : 4WD/ABS control unit (Without ESP)
- E124 : Diode
- E125 : Diode



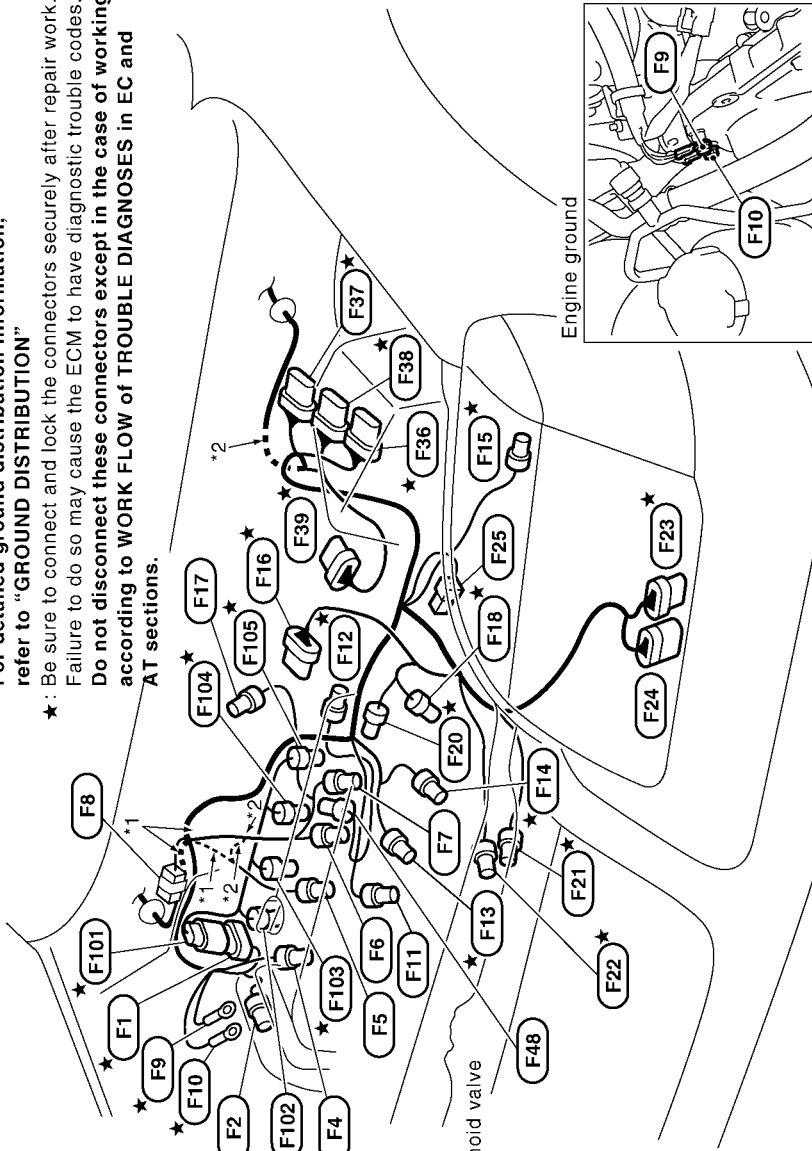
★ : Be sure to connect and lock the connectors securely after repair work.  
Failure to do so may cause the ECM to have diagnostic trouble codes.  
**Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.**

## ENGINE CONTROL HARNESS

### QR25 Engine Models with A/T

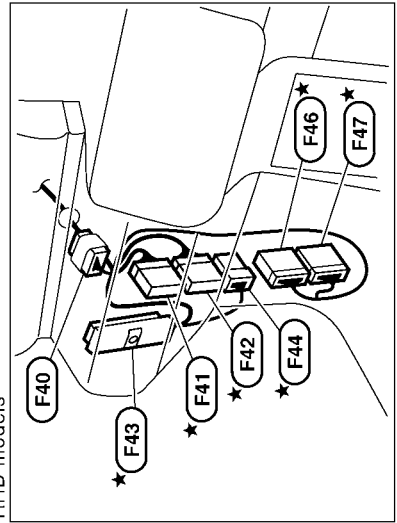
For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

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

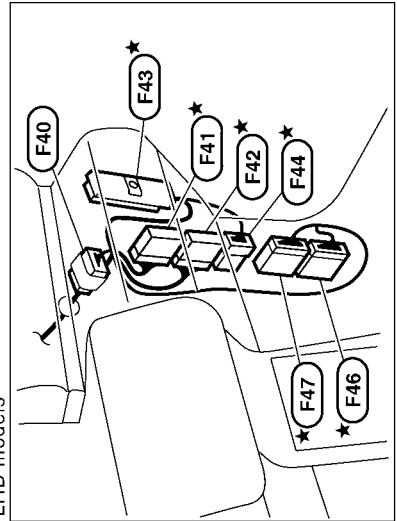


Engine ground

RHD models



LHD models



★ F1	DGY/6	: To (F101)
★ F2	G/2	: Intake valve timing control solenoid valve
★ F4	GY/3	: Ignition coil No. 1 (With power transistor)
★ F5	GY/3	: Ignition coil No. 2 (With power transistor)
★ F6	GY/3	: Ignition coil No. 3 (With power transistor)
★ F7	GY/3	: Ignition coil No. 4 (With power transistor)
★ F8	GY/2	: Condenser
★ F9	—	: Engine ground
★ F10	—	: Engine ground
★ F11	GY/1	: Oil pressure switch
★ F12	B/3	: Power steering pressure sensor
★ F13	GY/2	: Knock sensor
★ F14	B/3	: Crankshaft position sensor (POS)
★ F15	B/3	: Revolution sensor
★ F16	G/6	: Electronic throttle control actuator
★ F17	L/2	: EVAP canister purge volume control solenoid valve
★ F18	GY/2	: Engine coolant temperature sensor
★ F20	B/3	: Camshaft position sensor (PHASE)
★ F21	G/4	: Heated oxygen sensor 1
★ F22	L/4	: Heated oxygen sensor 2
★ F23	B/8	: A/T solenoid valve
★ F24	B/10	: Park/Neutral position switch
★ F25	B/1	: Starter motor
★ F36	GY/9	: To (E60)
★ F37	GY/8	: To (E62)
★ F38	DGY/8	: To (E61)
★ F39	GY/5	: Mass air flow sensor
★ F40	GY/6	: Joint connector-4
★ F41	BR/24	: To (M61)
★ F42	W/16	: To (M62)
★ F43	SMJ	: ECM
★ F44	BR/6	: ECM relay
★ F46	W/24	: TCM (Transmission control module)
★ F47	GY/24	: TCM (Transmission control module)
★ F48	BR/2	: VIAS control solenoid valve

#### Engine control sub-harness

★ F101	B/6	: To (F1)
★ F102	GY/2	: Injector No. 1
★ F103	GY/2	: Injector No. 2
★ F104	GY/2	: Injector No. 3
★ F105	GY/2	: Injector No. 4

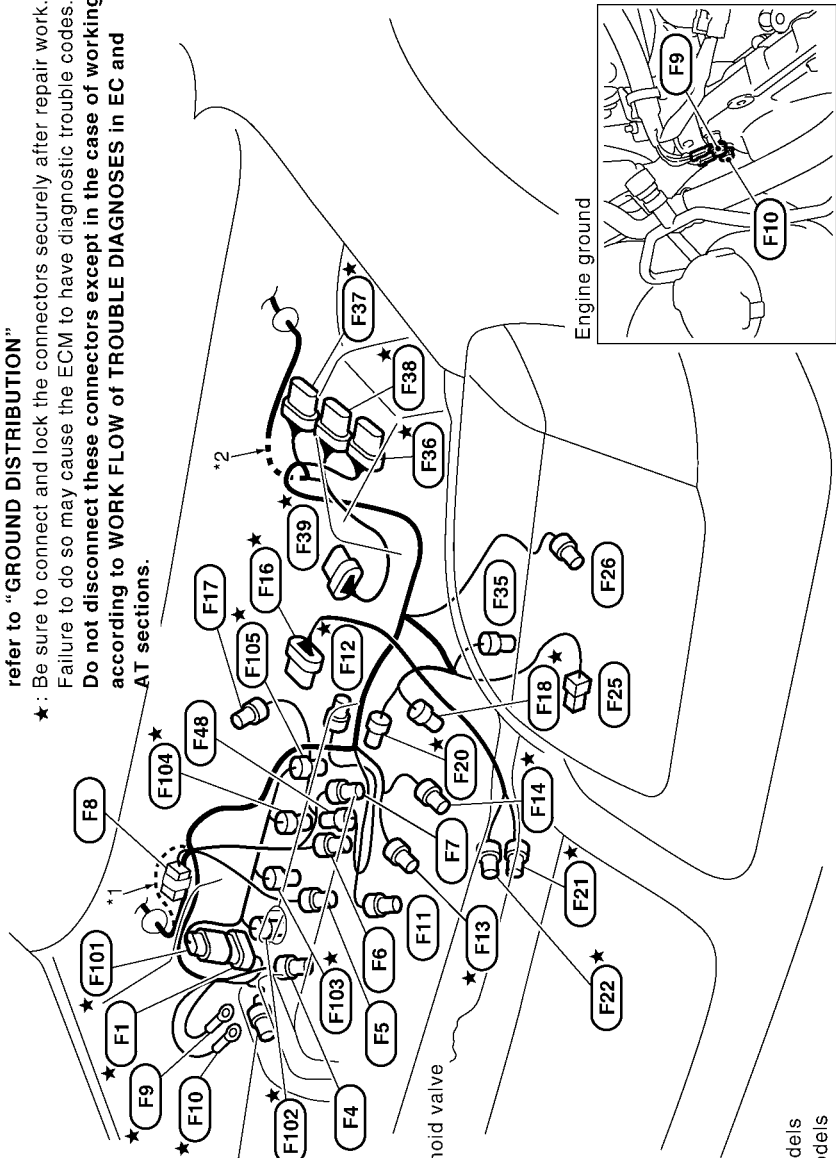
\*1 : LHD models

\*2 : RHD models

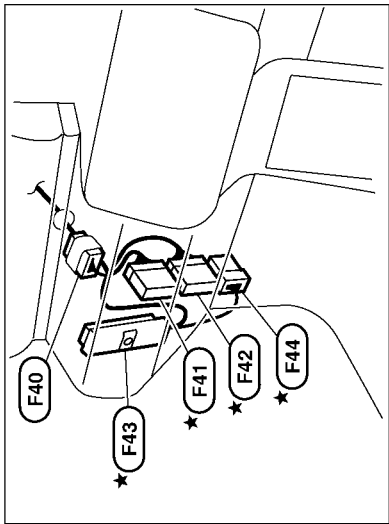
QR25 Engine Models with M/T

For detailed ground distribution information, refer to "GROUND DISTRIBUTION"

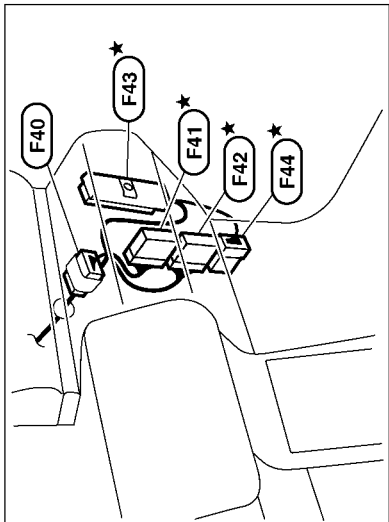
★: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.



RHD models



LHD models



- ★ F1 DGY/6 : To (F101)
- ★ F2 GY/2 : Intake valve timing control solenoid valve
- ★ F3 GY/3 : Ignition coil No. 1 (With power transistor)
- ★ F4 GY/3 : Ignition coil No. 2 (With power transistor)
- ★ F5 GY/3 : Ignition coil No. 3 (With power transistor)
- ★ F6 GY/3 : Ignition coil No. 4 (With power transistor)
- ★ F7 GY/2 : Condenser
- ★ F8 GY/2 : Engine ground
- ★ F9 GY/2 : Engine ground
- ★ F10 GY/1 : Oil pressure switch
- ★ F11 B/3 : Power steering pressure sensor
- ★ F12 GY/2 : Knock sensor
- ★ F13 B/3 : Crankshaft position sensor (POS)
- ★ F14 G/6 : Electronic throttle control actuator
- ★ F15 L/2 : EVAP canister purge volume control solenoid valve
- ★ F16 GY/2 : Engine coolant temperature sensor
- ★ F17 B/3 : Camshaft position sensor (PHASE)
- ★ F18 G/4 : Heated oxygen sensor 1
- ★ F19 L/4 : Heated oxygen sensor 2
- ★ F20 B/1 : Starter motor
- ★ F21 B/2 : Park/Neutral position switch
- ★ F22 B/2 : Back-up lamp position switch
- ★ F23 GY/9 : To (E60)
- ★ F24 GY/8 : To (E62)
- ★ F25 DGY/8 : To (E61)
- ★ F26 GY/5 : Mass air flow sensor
- ★ F27 GY/6 : Joint connector-4
- ★ F28 BR/24 : To (M51)
- ★ F29 W/16 : To (M52)
- ★ F30 SMJ : ECM
- ★ F31 BR/6 : ECM relay
- ★ F32 BR/2 : VIAS control solenoid valve

Engine control sub-harness

- ★ F101 B/6 : To (F1)
- ★ F102 GY/2 : Injector No. 1
- ★ F103 GY/2 : Injector No. 2
- ★ F104 GY/2 : Injector No. 3
- ★ F105 GY/2 : Injector No. 4

KIA0021E

## QR20 Engine Models with A/T

For detailed ground distribution information, refer to "GROUND DISTRIBUTION"

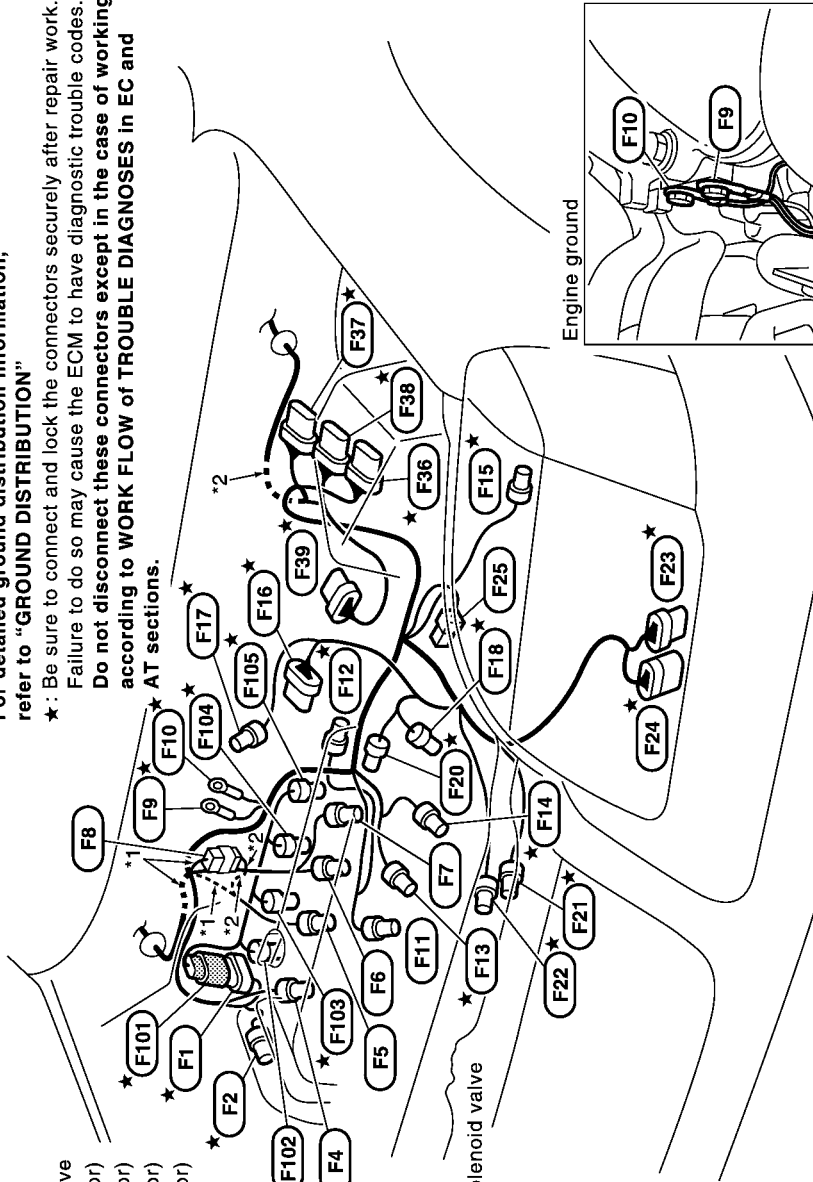
★: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

★ F1	DGY/6	: To (F101)
★ F2	G/2	: Intake valve timing control solenoid valve
★ F4	G/3	: Ignition coil No. 1 (With power transistor)
★ F5	G/3	: Ignition coil No. 2 (With power transistor)
★ F6	G/3	: Ignition coil No. 3 (With power transistor)
★ F7	G/3	: Ignition coil No. 4 (With power transistor)
★ F8	G/2	: Condenser
★ F9	-	: Engine ground
★ F10	-	: Engine ground
★ F11	G/1	: Oil pressure switch
★ F12	B/3	: Power steering pressure sensor
★ F13	G/2	: Knock sensor
★ F14	B/3	: Crankshaft position sensor (POS)
★ F15	B/3	: Revolution sensor
★ F16	G/6	: Electronic throttle control actuator
★ F17	L/2	: EVAP canister purge volume control solenoid valve
★ F18	G/2	: Engine coolant temperature sensor
★ F20	B/3	: Camshaft position sensor (PHASE)
★ F21	G/4	: Heated oxygen sensor 1
★ F22	L/4	: Heated oxygen sensor 2
★ F23	B/8	: A/T solenoid valve
★ F24	B/10	: Park/Neutral position switch
★ F25	B/1	: Starter motor
★ F36	G/9	: To (E60)
★ F37	G/8	: To (E62)
★ F38	DGY/8	: To (E61)
★ F39	G/5	: Mass air flow sensor
★ F40	G/6	: Joint connector-4
★ F41	BR/24	: To (M61)
★ F42	W/16	: To (M62)
★ F43	SMJ	: ECM
★ F44	BR/6	: ECM relay
★ F46	W/24	: TCM (Transmission control module)
★ F47	G/24	: TCM (Transmission control module)

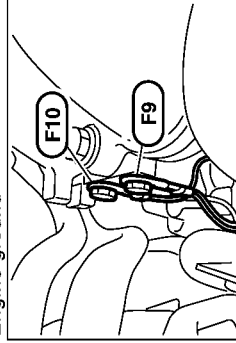
### Engine control sub-harness

★ F101	B/6	: To (F1)
★ F102	G/2	: Injector No. 1
★ F103	G/2	: Injector No. 2
★ F104	G/2	: Injector No. 3
★ F105	G/2	: Injector No. 4

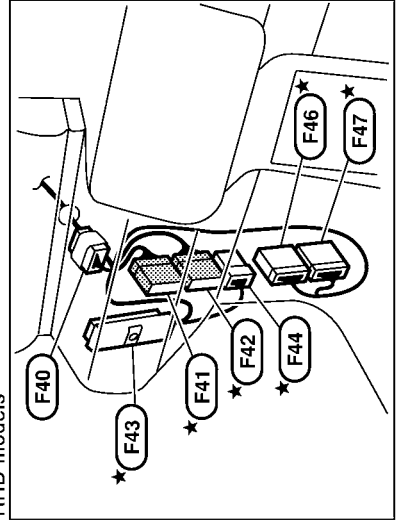
\*1: LHD models  
\*2: RHD models



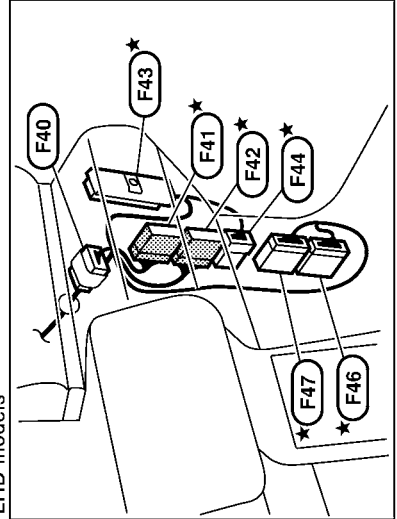
Engine ground



RHD models



LHD models

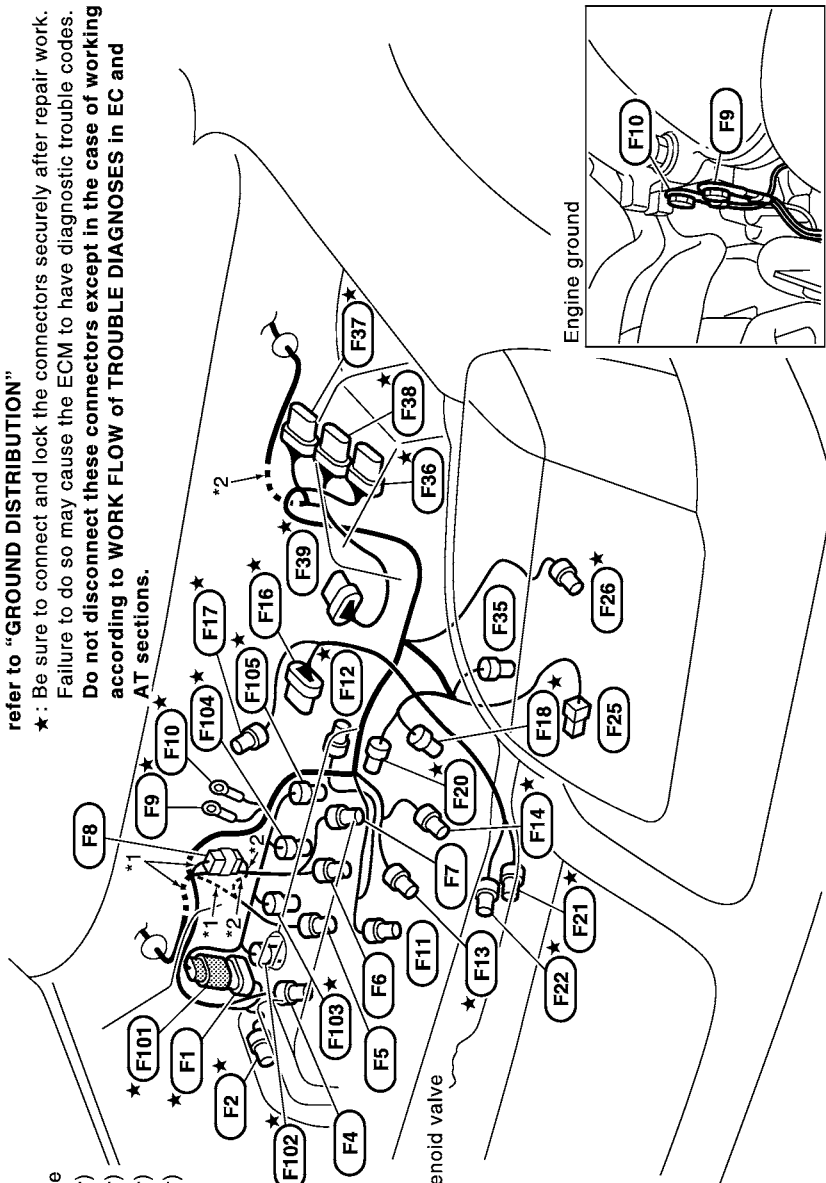




QR20 Engine Models with M/T

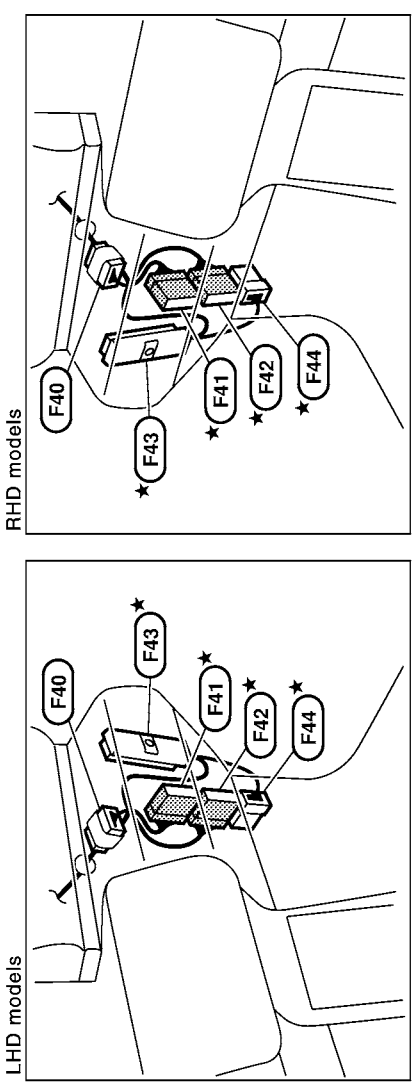
For detailed ground distribution information, refer to "GROUND DISTRIBUTION"

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



- |       |       |   |
|-------|-------|---|
| ★ F1  | DGY/6 | : To (F101)   |
| ★ F2  | GY/2  | : Intake valve timing control solenoid valve        |
| ★ F4  | GY/3  | : Ignition coil No. 1 (With power transistor)       |
| ★ F5  | GY/3  | : Ignition coil No. 2 (With power transistor)       |
| ★ F6  | GY/3  | : Ignition coil No. 3 (With power transistor)       |
| ★ F7  | GY/3  | : Ignition coil No. 4 (With power transistor)       |
| ★ F8  | GY/2  | : Condenser   |
| ★ F9  | —     | : Engine ground                                     |
| ★ F10 | —     | : Engine ground                                     |
| ★ F11 | GY/1  | : Oil pressure switch                               |
| ★ F12 | B/3   | : Power steering pressure sensor                    |
| ★ F13 | GY/2  | : Knock sensor                                      |
| ★ F14 | B/3   | : Crankshaft position sensor (POS)                  |
| ★ F16 | G/6   | : Electronic throttle control actuator              |
| ★ F17 | L/2   | : EVAP canister purge volume control solenoid valve |
| ★ F18 | GY/2  | : Engine coolant temperature sensor                 |
| ★ F20 | B/3   | : Camshaft position sensor (PHASE)                  |
| ★ F21 | G/4   | : Heated oxygen sensor 1                            |
| ★ F22 | L/4   | : Heated oxygen sensor 2                            |
| ★ F25 | B/1   | : Starter motor                                     |
| ★ F26 | B/2   | : Park/Neutral position switch                      |
| ★ F35 | B/2   | : Back-up lamp switch                               |
| ★ F36 | GY/9  | : To (E60)  |
| ★ F37 | GY/8  | : To (E62)  |
| ★ F38 | DGY/8 | : To (E61)  |
| ★ F39 | GY/5  | : Mass air flow sensor                              |
| ★ F40 | GY/6  | : Joint connector-4                                 |
| ★ F41 | BR/24 | : To (M61)  |
| ★ F42 | W/16  | : To (M62)  |
| ★ F43 | SMJ   | : ECM   |
| ★ F44 | BR/6  | : ECM relay   |

\*1: LHD models  
\*2: RHD models



- Engine control sub-harness
- |        |      |                  |
|--------|------|------------------|
| ★ F101 | B/6  | : To (F1)        |
| ★ F102 | GY/2 | : Injector No. 1 |
| ★ F103 | GY/2 | : Injector No. 2 |
| ★ F104 | GY/2 | : Injector No. 3 |
| ★ F105 | GY/2 | : Injector No. 4 |

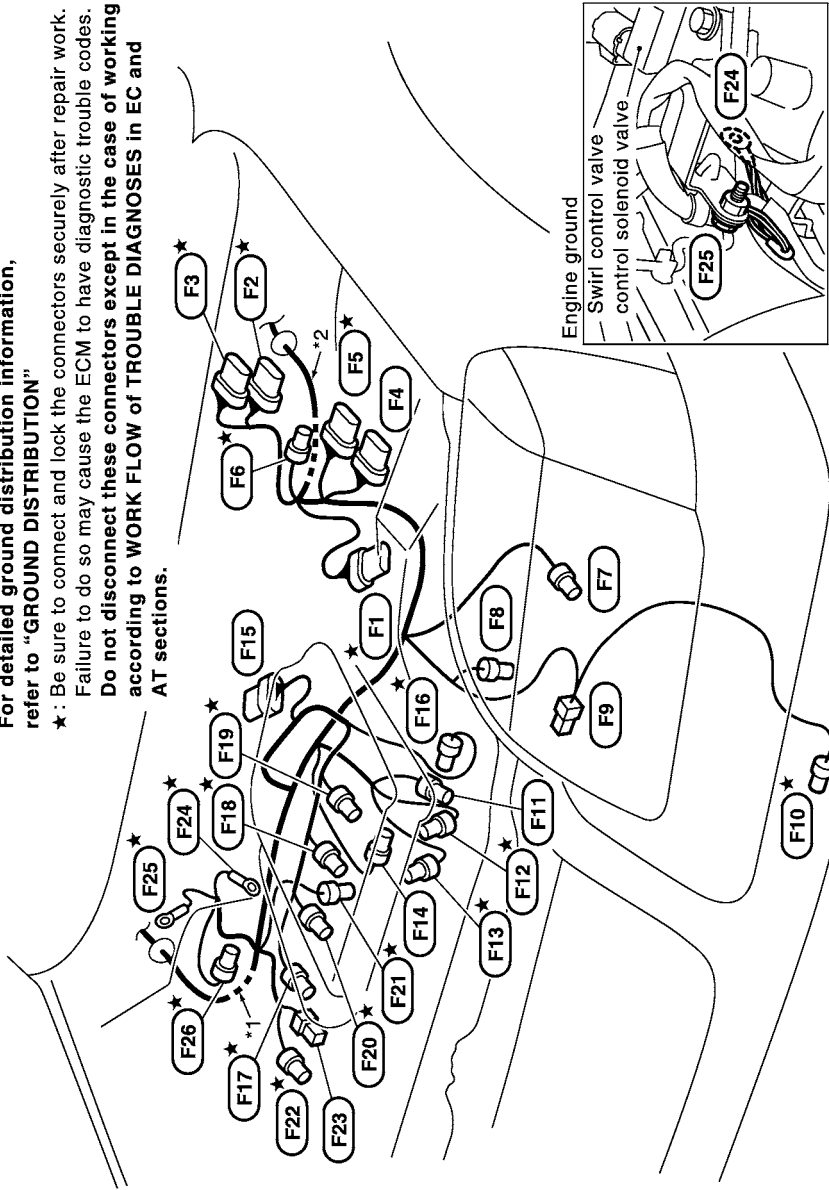
CKWA0075E

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## Diesel Engine Models

For detailed 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 ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.



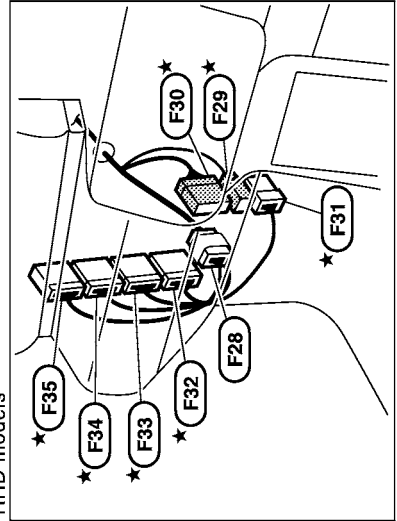
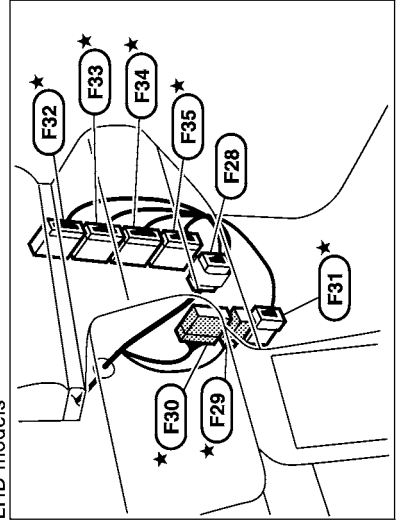
Engine ground

Swirl control valve

control solenoid valve

LHD models

RHD models

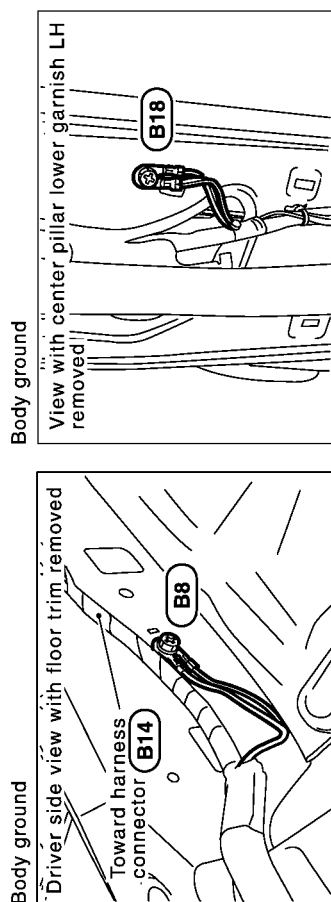


★ F1	GY/5	: Mass air flow sensor
★ F2	B/5	: EDU (Electronic drive unit)
★ F3	B/8	: EDU (Electronic drive unit)
★ F4	GY/8	: To <b>(E63)</b>
★ F5	DGY/6	: To <b>(E64)</b>
★ F6	B/2	: To <b>(E65)</b>
★ F7	B/2	: Park/Neutral position switch
★ F8	B/2	: Back-up lamp switch
★ F9	B/1	: Starter motor
★ F10	GY/2	: Crankshaft position sensor (TDC)
★ F11	GY/1	: Oil pressure switch
★ F12	GY/2	: Fuel supply pump
★ F13	GY/2	: Fuel supply pump
★ F14	B/2	: Power steering oil pressure switch
★ F15	GY/6	: EGR volume control valve
★ F16	W/2	: Camshaft position sensor
★ F17	W/4	: Fuel injector No. 1
★ F18	W/4	: Fuel injector No. 3
★ F19	W/4	: Fuel injector No. 4
★ F20	W/4	: Fuel injector No. 2
★ F21	W/2	: Fuel temperature sensor
★ F22	GY/2	: Engine coolant temperature sensor
★ F23	B/1	: Thermal transmitter
★ F24	-	: Engine ground
★ F25	-	: Engine ground
★ F26	B/3	: Common rail fuel pressure sensor
★ F28	GY/6	: Joint connector-5
★ F29	W/4	: To <b>(M64)</b>
★ F30	BR/24	: To <b>(M63)</b>
★ F31	BR/6	: ECM relay
★ F32	W/31	: ECM
★ F33	W/24	: ECM
★ F34	W/28	: ECM
★ F35	W/22	: ECM

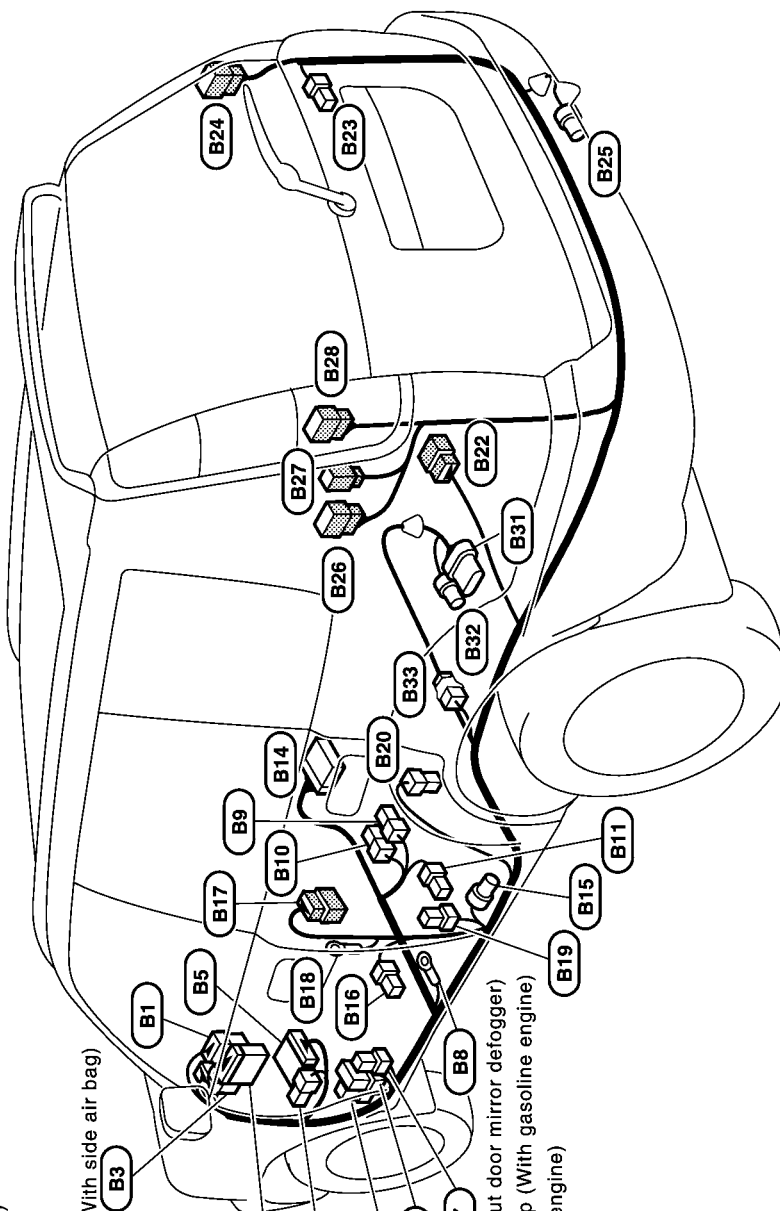
\*1: LHD models

\*2: RHD models

## BODY HARNESS/LHD MODELS



B1	W/8	To	M17
B2	BR/20	To	M18
B3	W/6	To	M16
B4	W/3	Fuse block (J/B)	
B5	W/10	Fuse block (J/B)	
B6	BR/6	Rear window defogger relay (With door mirror defogger)	
B7	L/4	Fuel pump relay (With gasoline engine)	
B8	-	Body ground	
B9	Y/2	Front LH side air bag module (With side air bag)	
B10	W/3	Seat belt buckle switch (Driver side)	
B11	GY/3	Heated seat LH (With heater seat)	
B14	Y/12	Air bag diagnosis sensor unit	
B15	Y/2	LH side air bag (Satellite) sensor (With side air bag)	
B16	W/3	Front door switch (Driver side)	
B17	W/8	To	D31
B18	-	Body ground	
B19	Y/2	Front LH seat belt pre-tensioner	
B20	W/1	Rear door switch LH	
B22	W/6	To	B129
B23	B/2	Rear power socket	
B24	W/6	Rear combination lamp RH	
B25	BR/2	Rear fog lamp	
B26	W/6	To	D51
B27	W/3	To	D52
B28	W/6	Rear combination lamp LH	
B29	L/4	Rear window defogger relay (Without door mirror defogger)	
B31	GY/5	Fuel level sensor unit and fuel pump (With gasoline engine)	
B32	GY/2	Fuel level sensor unit (With diesel engine)	
B33	W/2	Condenser (With gasoline engine)	

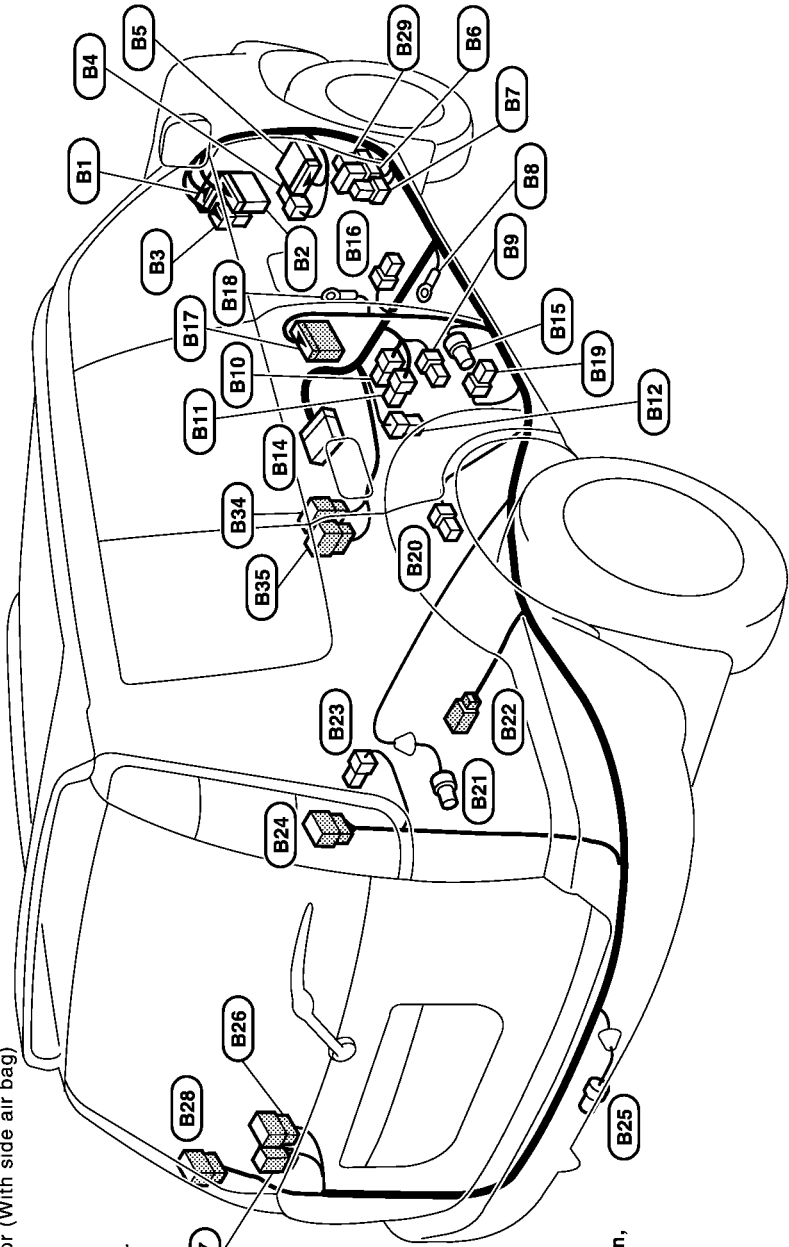
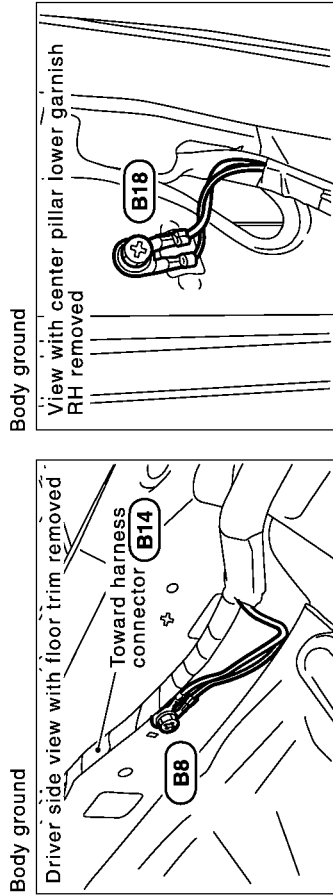


For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

# HARNESS

## BODY HARNESS/RHD MODELS

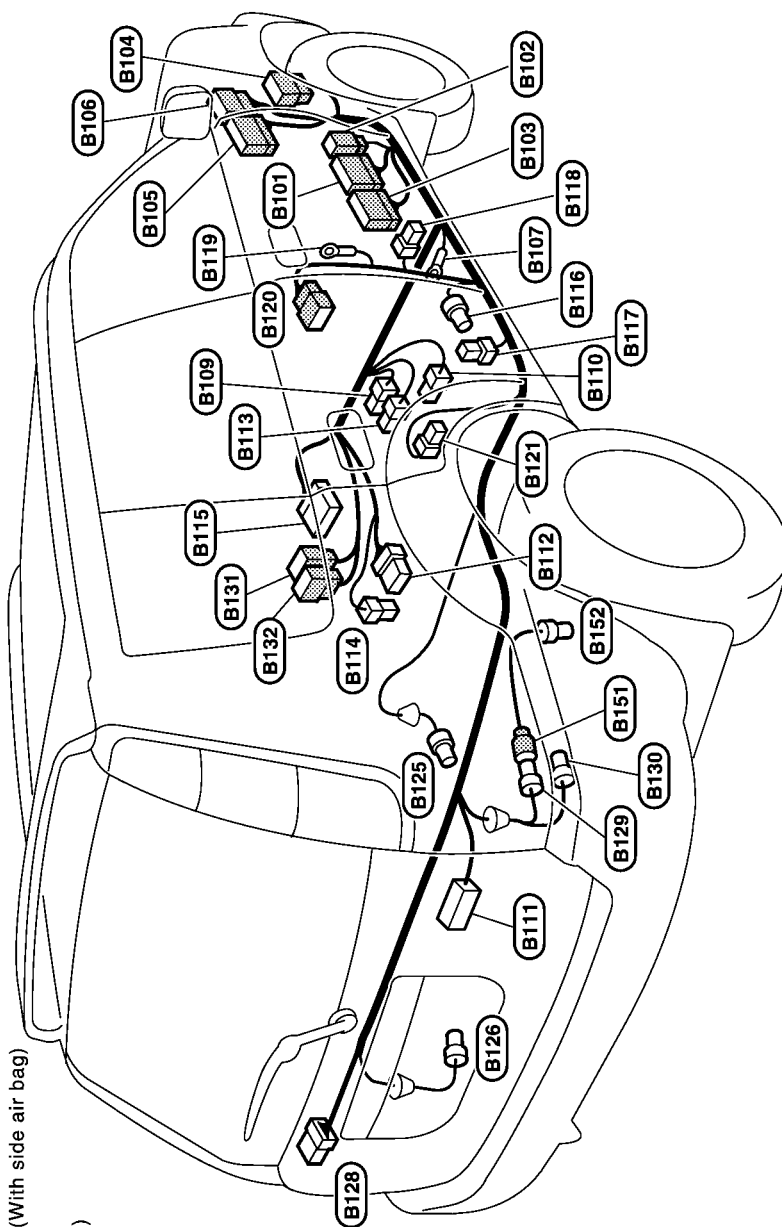
- B1** W/12 : To **(M17)**  
**B2** BR/20 : To **(M18)**  
**B3** W/4 : To **(M16)**  
**B4** W/3 : Fuse block (J/B)  
**B5** W/10 : Fuse block (J/B)  
**B6** BR/6 : Rear window defogger relay (With door mirror defogger)  
**B7** L/4 : Fuel pump relay (With gasoline engine)  
**B8** - : Body ground  
**B9** Y/2 : Front RH side air bag module (With side air bag)  
**B10** W/3 : Seat belt buckle switch (Driver side)  
**B11** GY/3 : Heated seat RH (With heater seat)  
**B12** B/1 : Parking break switch  
**B14** Y/12 : Air bag diagnosis sensor unit  
**B15** Y/2 : RH side air bag (Satellite) sensor (With side air bag)  
**B16** W/3 : Front door switch (Driver side)  
**B17** W/10 : To **(D21)**  
**B18** - : Body ground  
**B19** Y/2 : Front RH seat belt pre-tensioner  
**B20** W/1 : Rear door switch RH  
**B21** GY/4 : Sub fuel level sensor unit  
**B22** W/4 : To **(B128)**  
**B23** B/2 : Rear power socket  
**B24** W/6 : Rear combination lamp RH  
**B25** BR/2 : Rear fog lamp  
**B26** W/6 : To **(D51)**  
**B27** W/3 : To **(D52)**  
**B28** W/6 : Rear combination lamp LH  
**B29** L/4 : Rear window defogger relay (Without door mirror defogger)  
**B34** BR/6 : Heated seat switch RH  
**B35** W/6 : Heated seat switch LH



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

A  
B  
C  
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## SMA for models with roof mounted driving lamp



<b>(B101)</b>	W/16 :	To <b>(E117)</b>	(With ESP)
<b>(B102)</b>	B/2 :	To <b>(E118)</b>	
<b>(B103)</b>	W/20 :	To <b>(E119)</b>	(With ESP)
<b>(B104)</b>	W/8 :	To <b>(E120)</b>	(With ESP)
<b>(B105)</b>	W/12 :	To <b>(M78)</b>	(Without ESP)
<b>(B106)</b>	W/8 :	To <b>(M79)</b>	
<b>(B107)</b>	— :	Body ground	(With ESP)
<b>(B109)</b>	Y/2 :	Front RH side air bag module	(With side air bag)
<b>(B110)</b>	GY/3 :	Heated seat RH	(With heater seat)
<b>(B111)</b>	SMJ :	ESP/TCS/ABS control unit	
<b>(B112)</b>	B/6 :	Yaw rate and G sensor	
<b>(B113)</b>	W/3 :	Seat belt buckle switch	(Passenger side)
<b>(B114)</b>	B/1 :	Parking brake switch	
<b>(B115)</b>	Y/12 :	Air bag diagnosis sensor unit	
<b>(B116)</b>	Y/2 :	RH side air bag	(Satellite) sensor (With side air bag)
<b>(B117)</b>	Y/2 :	Front RH seat belt pre-tensioner	
<b>(B118)</b>	W/3 :	Front door switch	(Passenger side)
<b>(B119)</b>	— :	Body ground	
<b>(B120)</b>	W/8 :	To <b>(D21)</b>	
<b>(B121)</b>	W/1 :	Rear door switch	RH
<b>(B125)</b>	GY/4 :	Sub fuel level sensor	unit
<b>(B126)</b>	BR/2 :	Rear wheel sensor	LH
<b>(B128)</b>	W/6 :	To <b>(B22)</b>	
<b>(B129)</b>	B/2 :	To <b>(B151)</b>	
<b>(B130)</b>	GY/2 :	Rear wheel sensor	RH
<b>(B131)</b>	W/6 :	Heated seat switch	LH
<b>(B132)</b>	BR/6 :	Heated seat switch	RH

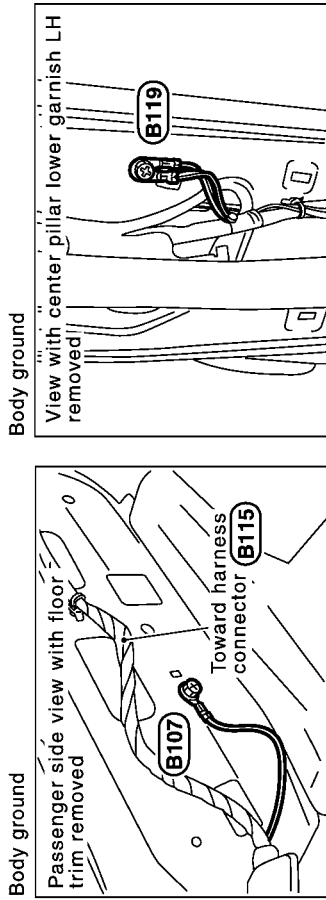
**Transmission sub-harness**

<b>(B151)</b>	B/2 :	To <b>(B129)</b>
<b>(B152)</b>	GY/2 :	4WD solenoid valve

**For detailed ground distribution information, refer to "GROUND DISTRIBUTION".**

# HARNESS

## BODY NO.2 HARNESS/RHD MODELS

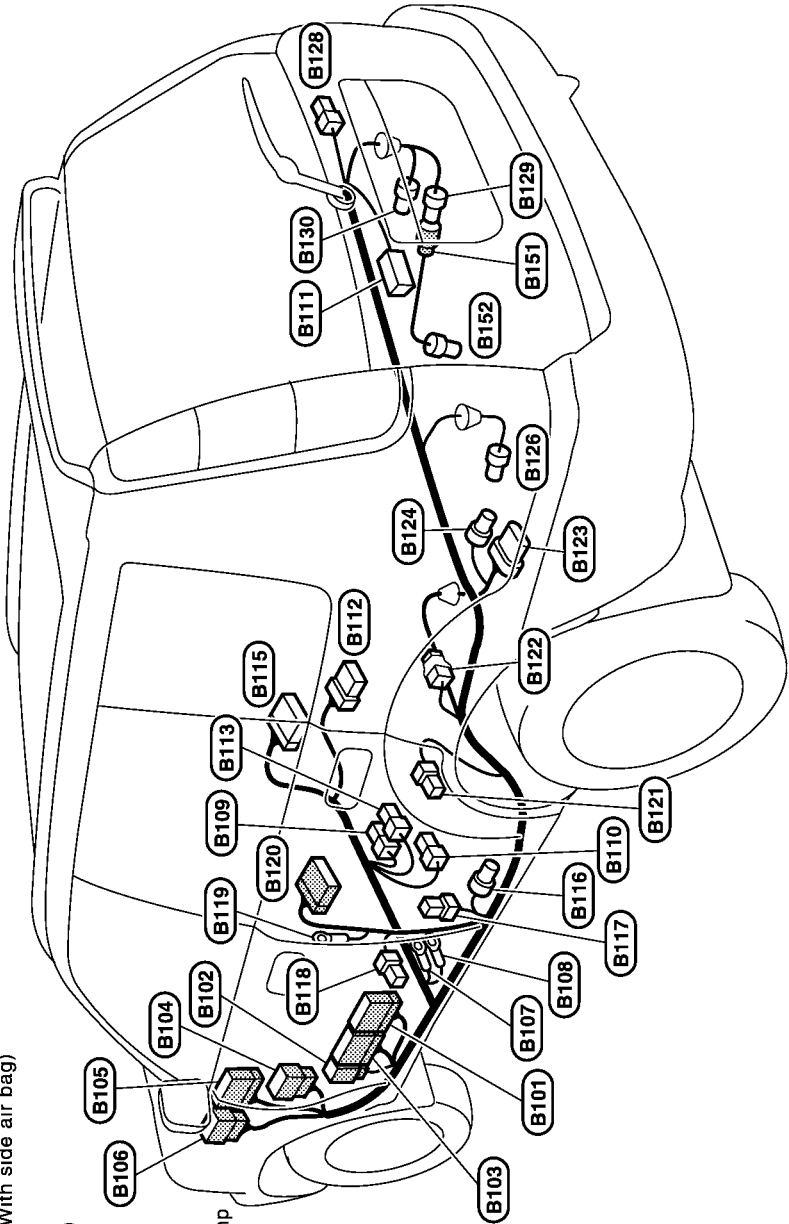


B101	W/16	: To E117 (With ESP)
B102	B/2	: To E118 (With ESP)
B103	W/20	: To E119 (With ESP)
B104	W/8	: To E120 (Without ESP)
B105	W/10	: To M78
B106	W/8	: To M79 (With ESP)
B107	-	: Body ground
B108	-	: Body ground
B109	Y/2	: Front LH side air bag module (With side air bag)
B110	GY/3	: Heated seat LH (With heater seat)
B111	SMJ	: ESP/TCS/ABS control unit
B112	B/6	: Yaw rate and G sensor
B113	W/3	: Seat belt buckle switch (Passenger side)
B115	Y/12	: Air bag diagnosis sensor unit
B116	Y/2	: LH side air bag (Satellite) sensor (With side air bag)
B117	Y/2	: Front LH seat belt pre-tensioner
B118	W/3	: Front door switch (Passenger side)
B119	-	: Body ground
B120	W/10	: To D31
B121	W/1	: Rear door switch LH
B122	W/2	: Condenser (With gasoline engine)
B123	GY/5	: Fuel level sensor unit and fuel pump (With gasoline engine)
B124	GY/2	: Fuel level sensor unit
B125	BR/2	: Rear wheel sensor LH (With diesel engine)
B126	W/4	: To B22
B129	B/2	: To B151
B130	GY/2	: Rear wheel sensor RH

**Transmission sub-harness**

B151	B/2	: To B129
B152	GY/2	: 4WD solenoid valve

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



HARNESS

ROOM LAMP HARNESS

SMA for models with roof mounted driving lamp

- R1

W/6

: To (M73)
- R2

W/2

: Spot lamp
- R3

GY/6

: Sunroof switch
- R4

W/2

: Interior room lamp
- R5

W/6

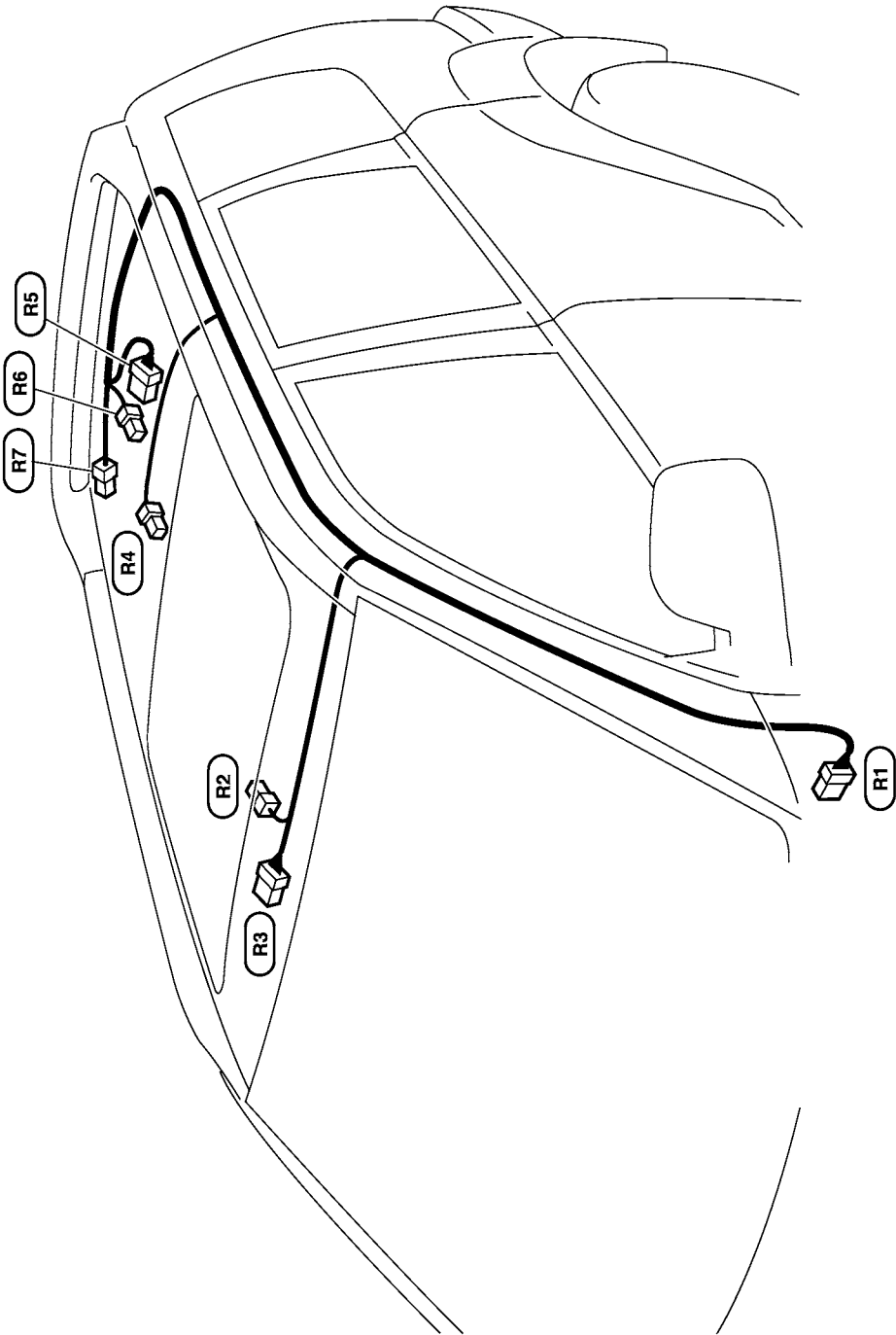
: Sunroof motor assembly
- R6

W/1

: Sunroof motor assembly
- R7

W/2

: Luggage room lamp



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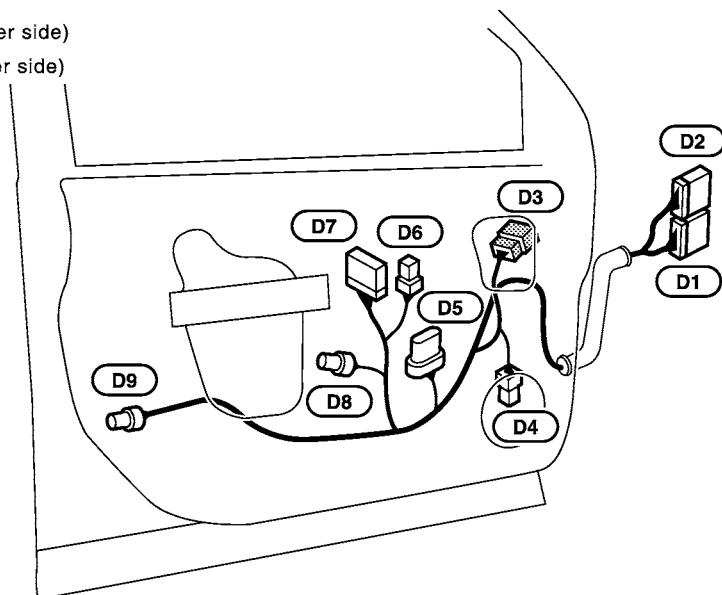
M

# HARNESS

## FRONT DOOR HARNESS/LHD MODELS

### Driver Side

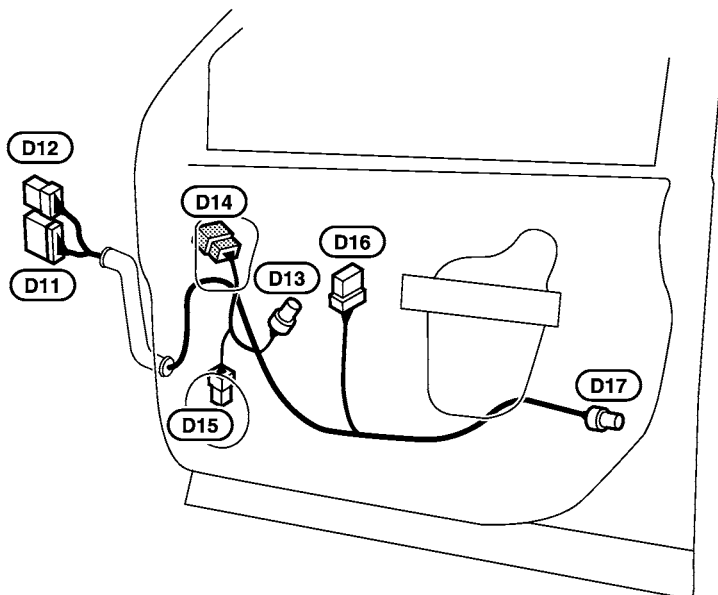
- (D1) W/16 : To (M21)
- (D2) BR/12 : To (M22)
- (D3) W/8 : Door mirror actuator (Driver side)
- (D4) W/2 : Front door speaker LH
- (D5) GY/6 : Front power window regulator (Driver side)
- (D6) W/3 : Power window main switch
- (D7) W/16 : Power window main switch
- (D8) BR/3 : Door key cylinder switch (Driver side)
- (D9) GY/4 : Front door lock actuator (Driver side)



CKWA0082E

### Passenger Side

- (D11) W/12 : To (M77)
- (D12) BR/8 : To (M76)
- (D13) BR/2 : Front power window regulator (Passenger side)
- (D14) W/8 : Door mirror actuator (Passenger side)
- (D15) W/2 : Front door speaker RH
- (D16) W/8 : Front power window switch (Passenger side)
- (D17) GY/4 : Front door lock actuator (Passenger side)



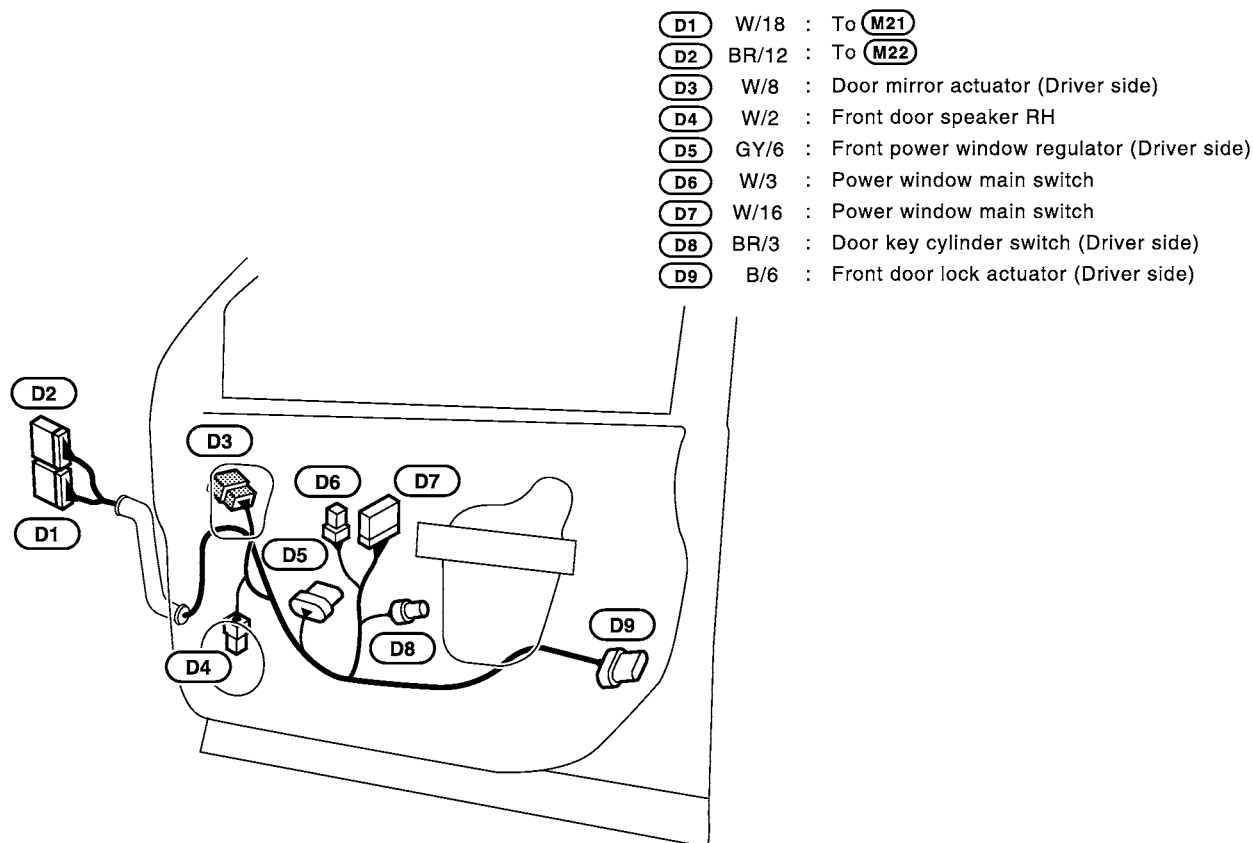
CKWA0083E



# HARNESS

## FRONT DOOR HARNESS/RHD MODELS

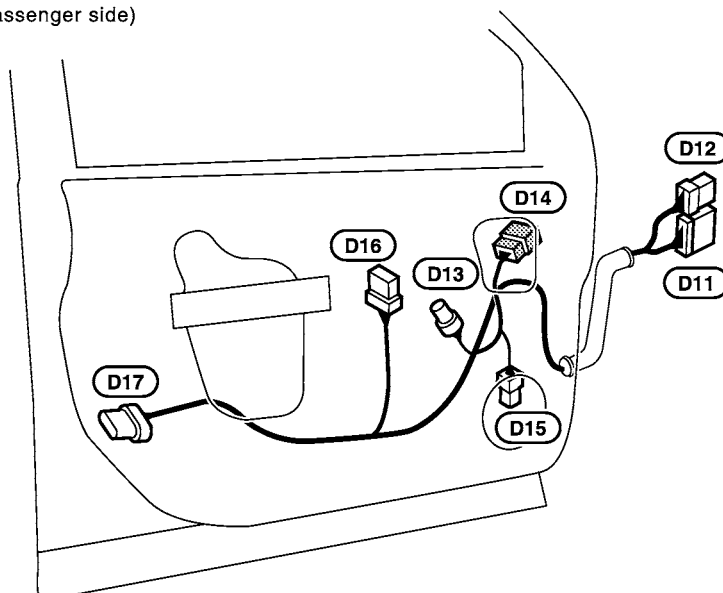
### Driver Side



CKWA0084E

### Passenger Side

- |       |      |   |   |       |
|-------|------|---|---|-------|
| (D11) | W/12 | : | To  | (M77) |
| (D12) | BR/8 | : | To  | (M76) |
| (D13) | BR/2 | : | Front power window regulator (Passenger side) |       |
| (D14) | W/8  | : | Door mirror actuator (Passenger side)         |       |
| (D15) | W/2  | : | Front door speaker LH                         |       |
| (D16) | W/8  | : | Front power window switch (Passenger side)    |       |
| (D17) | B/6  | : | Front door lock actuator (Passenger side)     |       |



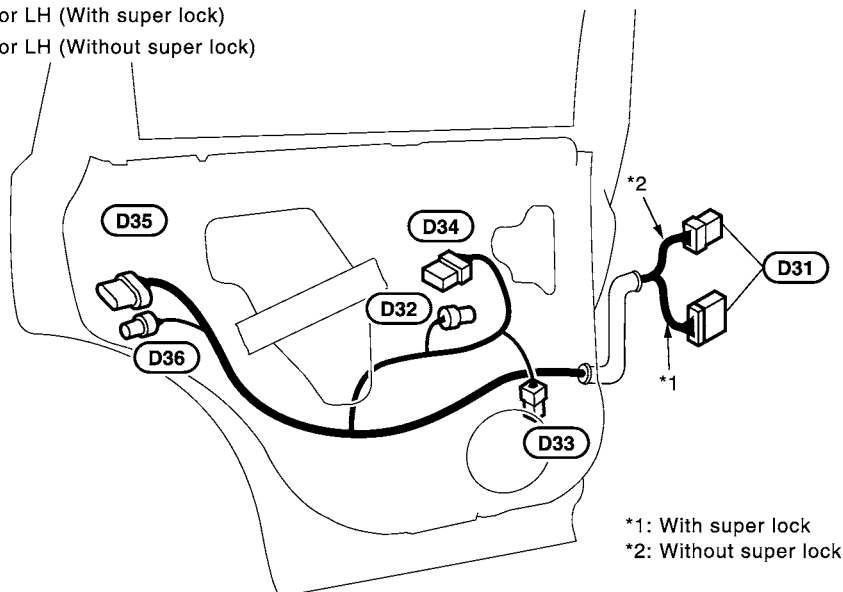
CKWA0085E

# HARNESS

## REAR DOOR HARNESS

### LH Side

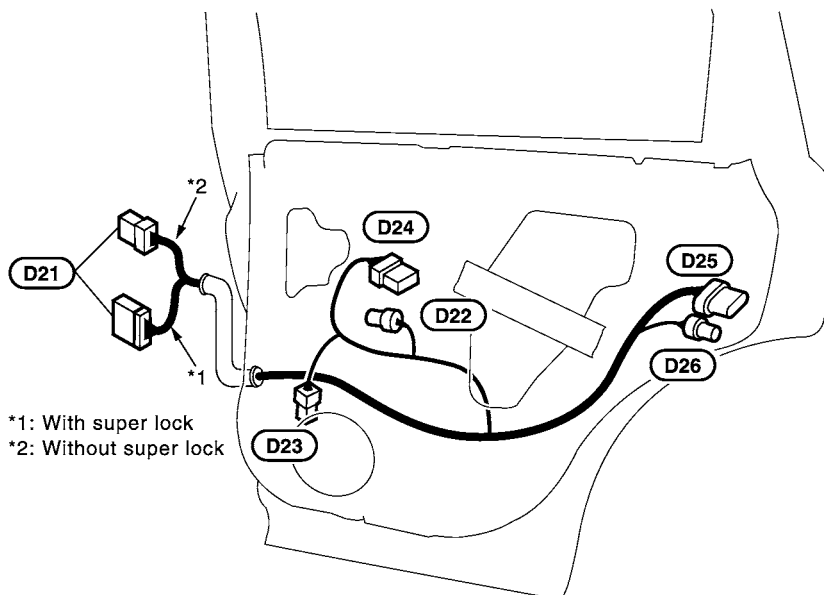
- (D31) W/8 : To (B17) (LHD models) (Without super lock)
- W/10 : To (B120) (RHD models) (With super lock)
- (D32) BR/2 : Rear power window regulator LH
- (D33) W/2 : Rear door speaker LH
- (D34) W/8 : Rear power window switch LH
- (D35) B/6 : Rear door lock actuator LH (With super lock)
- (D36) GY/4 : Rear door lock actuator LH (Without super lock)



CKWA0086E

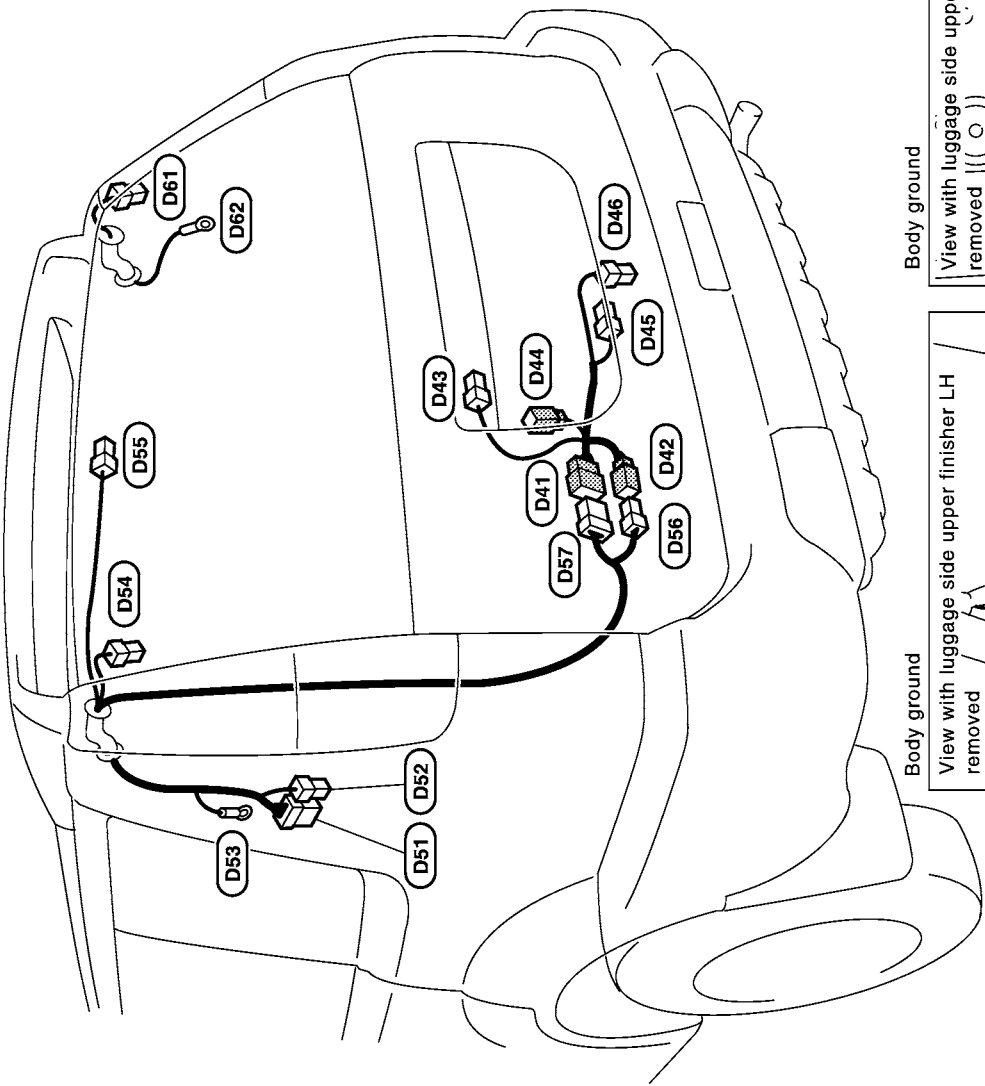
### RH Side

- (D21) W/10 : To (B17) (RHD models) (With super lock)
- W/8 : To (B120) (LHD models) (Without super lock)
- (D22) BR/2 : Rear power window regulator RH
- (D23) W/2 : Rear door speaker RH
- (D24) W/8 : Rear power window switch RH
- (D25) B/6 : Rear door lock actuator RH (With super lock)
- (D26) GY/4 : Rear door lock actuator RH (Without super lock)



CKWA0087E

BACK DOOR HARNESS



Back Door Harness

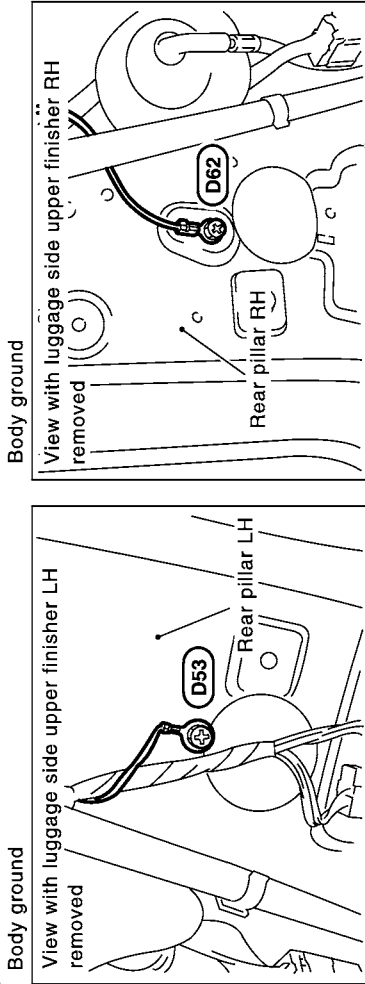
- D41 : To B57
- D42 : To B56
- D43 : Rear wiper motor
- D44 : License lamp
- D45 : Back door switch
- D46 : Back door lock actuator

Back Door Sub-Harness

- D51 : To B26
- D52 : To B27
- D53 : Body ground
- D54 : Rear window defogger (+)
- D55 : High-mounted stop lamp
- D56 : To B42
- D57 : To B41

Rear Window Defogger Harness

- D61 : Rear window defogger (-)
- D62 : Body ground



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

# HARNESS

## Wiring Diagram Codes (Cell Codes)

EKS0032J

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
1STSIG	AT	A/T 1st Signal
2NDSIG	AT	A/T 2nd Signal
3RDSIG	AT	A/T 3rd Signal
4THSIG	AT	A/T 4th Signal
4WD	BRC	4WD Control system
A/C	ATC	Air Conditioner
ABS	BRC	ABS Control System
APPS	EC	Accelerator Pedal Position (APP) Sensor
APRSW	EC	Accelerator Pedal Released Position Sensor
AT/IND	DI	A/T Indicator
AUDIO	AV	Audio
BA/FTS	AT	A/T Fluid Temperature Sensor and TCM Power Supply
BACK/L	LT	Back-up Lamp
BRK/SW	EC	Brake Switch
CAN	EC,AT	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
CIGAR	WW	Cigarette Lighter
CLOCK	DI	Clock
CKPS	EC	Crankshaft Position Sensor
CMPS	EC	Camshaft Position Sensor
COOL/F	EC	Cooling Fan Control
CRFPS	EC	Common Rail Fuel Pressure Sensor
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Headlamp - With Daytime Light System
ECM/PW	EC	ECM Power
ECMRLY	EC	ECM Relay
ECTS	EC	Engine Coolant Temperature Sensor
EGRC/V	EC	EGR Volume Control Valve
ENGSS	AT	Engine Speed Signal
ETC1	EC	Electric Throttle Function
ETC2	EC	Electric Throttle Control Motor Relay
ETC3	EC	Electric Throttle Control Motor
F/FOG	LT	Front Fog Lamp
FIAR	EC	Fuel Injector Adjustment resister
FRO2	EC	Heated Oxygen Sensor 1 (Front)
FRO2/H	EC	Heated Oxygen Sensor 1 Heater (Front)
FTS	EC	Fuel Temperature Sensor
FTS	AT	A/T Fluid Temperature Sensor

# HARNESS

Code	Section	Wiring Diagram Name	
FUEL	EC	Fuel Injection System Function	A
GLOW	EC	Glow Control System	
H/AIM	LT	Headlamp Aiming Control System	B
H/LAMP	LT	Headlamp	
H/SEAT	SE	Heated Seat	
HEATER	MTC	Heater System	C
HLC	WW	Headlamp Cleaner	
HO2S1	EC	Heated Oxygen Sensor 1 (Front)	D
HO2S1H	EC	Heated Oxygen Sensor 1 Heater (Front)	
HO2S2	EC	Heated Oxygen Sensor 2 (Rear)	
HO2S2H	EC	Heated Oxygen Sensor 2 Heater (Rear)	E
HORN	WW	Horn	
IATS	EC	Intake Air Temperature Sensor	F
IATSEN	EC	Intake Air Temperature Sensor	
IGN/SG	EC	Ignition Signal	
IGNSYS	EC	Ignition Signal	G
ILL	LT	Illumination	
INJECT	EC	Injector	H
INT/L	LT	Map Lamp	
IVC	EC	Intake Valve Timing Control Solenoid Valve	
IVC/V	EC	Intake Valve Timing Control Solenoid Valve	I
KS	EC	Knock Sensor (KS)	
LOAD	EC	Electrical Load Signal	J
LPSV	AT	Line Pressure Solenoid Valve	
MAFS	EC	Mass Air Flow Sensor (MAFS)	
MAIN	EC, AT	Main Power Supply and Ground Circuit	PG
METER	DI	Meter and Gauge	
MIL	EC	Malfunction Indicator Lamp	
MIL/DL	EC	MIL and Data Link Connector	L
MIRROR	GW	Door Mirror	
MULTI	BL	Multi-Remote Control System	M
NATS	BL	Nissan Anti-Theft System	
NONDTC	AT	Non-Detective Items	
OVRCSV	AT	Overrun Clutch Solenoid Valve	
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve	
PHASE	EC	Camshaft Position Sensor (PHASE)	
PNP/SW	EC, AT	Park/Neutral Position (PNP) Switch	
PNPSW1	EC	Park/Neutral Position (PNP) Switch	
POS	EC	Crankshaft Position Sensor (CKPS) (POS)	
POWER	PG	Power Supply Routing	
PRGVLV	EC	EVAP Canister Purge Volume Control Solenoid Valve	
PRWIRE	BL	Theft Warning System (Pre-wire)	
PS/SEN	EC	Power Steering Pressure Sensor	
PST/SW	EC	Power Steering Oil Pressure Switch	

# HARNESS

Code	Section	Wiring Diagram Name
R/FOG	LT	Rear Fog Lamp
ROOM/L	LT	Interior Room Lamp
RP/SEN	EC	Refrigerant Pressure Sensor
RRO2	EC	Heated Oxygen Sensor 2 (Rear)
RRO2/H	EC	Heated Oxygen Sensor 2 Heater (Rear)
S/LOCK	BL	Super Lock
S/SIG	EC	Start Signal
S/WARN	SB	Seat Belt Warning System
SCTC/V	EC	Suction Control Valve
SHIFT	AT	A/T Shift Lock System
SROOF	BL	Sunroof
SRS	SRS	Supplemental Restraint System (SRS)
SSV/A	AT	Shift Solenoid Valve A
SSV/B	AT	Shift Solenoid Valve B
START	SC	Starting System
STOP/L	LT	Stop Lamp
T/MTR	EC	Throttle Control Motor
TAIL/L	LT	Parking, License and Tail Lamps
TCV	AT	Torque Converter Clutch Solenoid Valve
TM/RLY	EC	Throttle Control Motor Relay
TPS	EC, AT	Throttle Position Sensor
TURN	LT	Turn Signal and Hazard Warning Lamps
VDC	BRC	Vehicle Dynamics Control System
VIAS/V	EC	Variable Air Induction Control System
VSS	EC	Vehicle Speed Sensor (VSS)
VSSAT	AT	Vehicle Speed Sensor A/T (Revolution Sensor)
VSSMTR	AT	Vehicle Speed Sensor MTR
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIP/R	WW	Rear Wiper and Washer
WIPER	WW	Front Wiper and Washer

# ELECTRICAL UNITS LOCATION

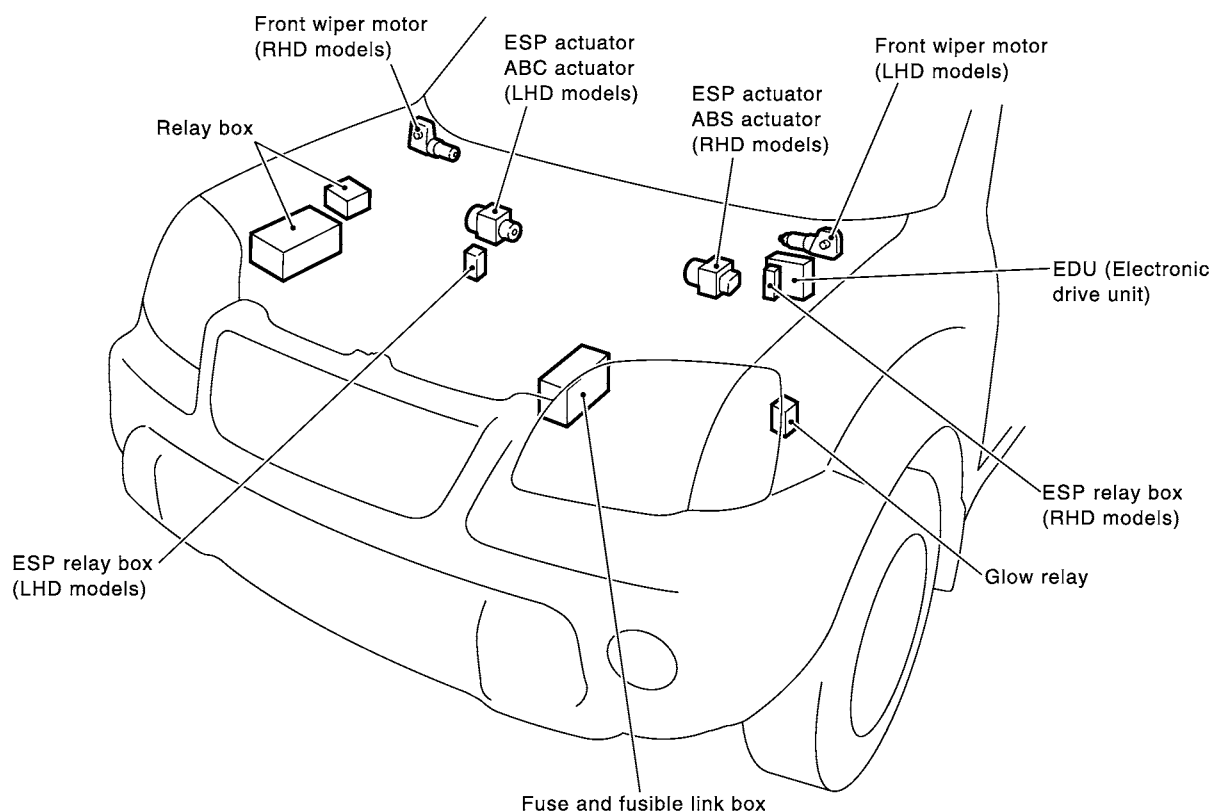
## ELECTRICAL UNITS LOCATION

PFP:25230

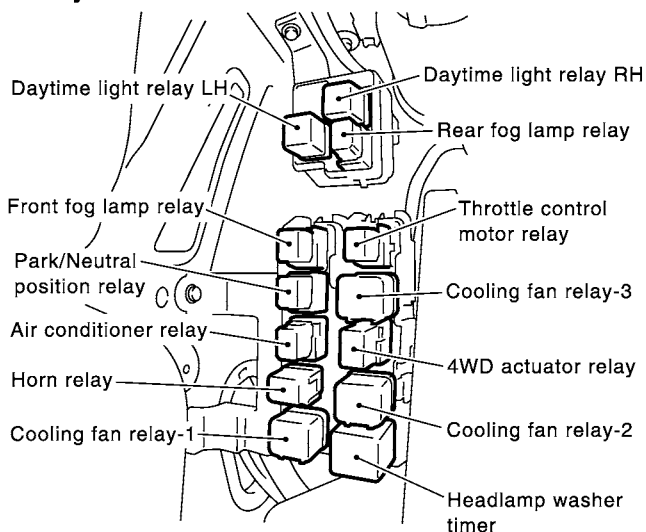
### Electrical Units Location ENGINE COMPARTMENT

EKS0032K

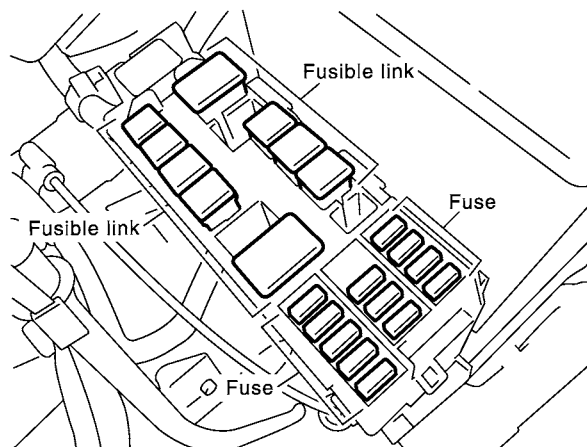
SMA for models with roof mounted driving lamp



#### Relay box



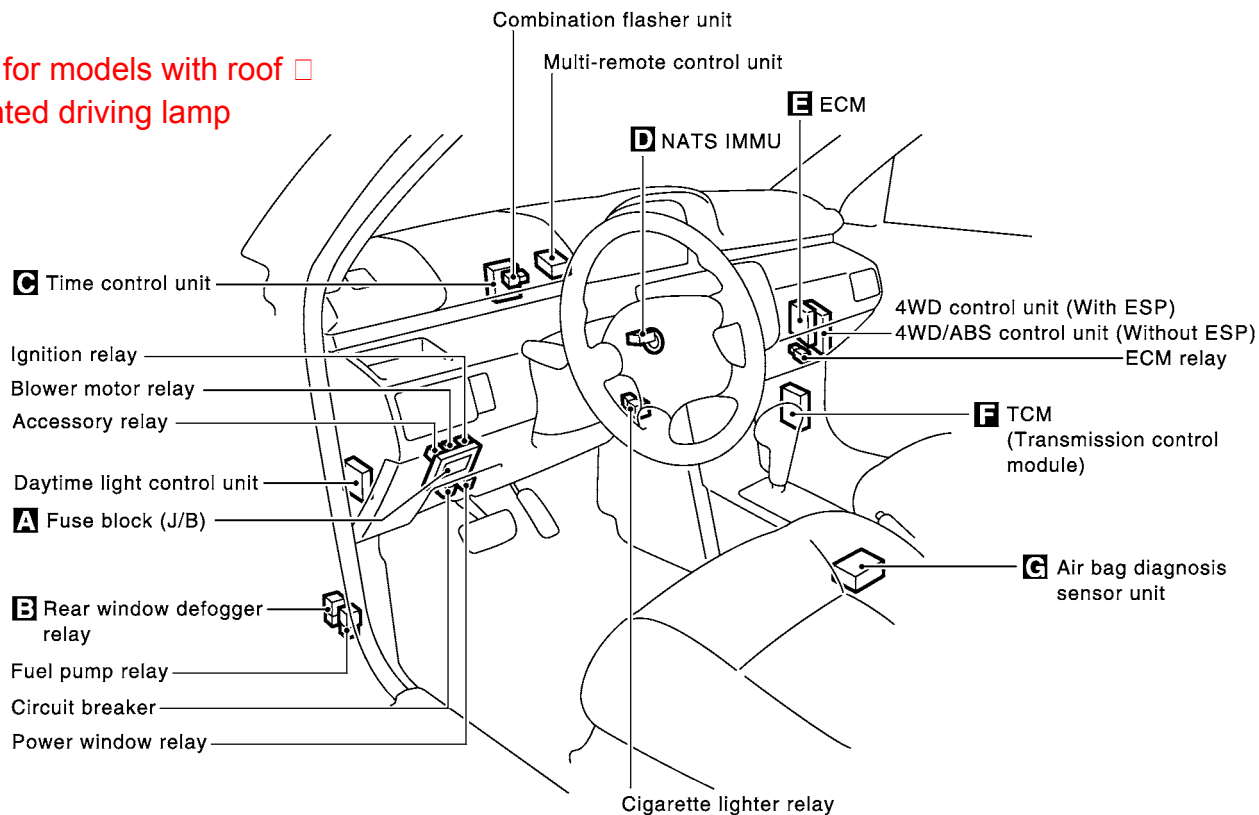
#### Fuse and fusible link box



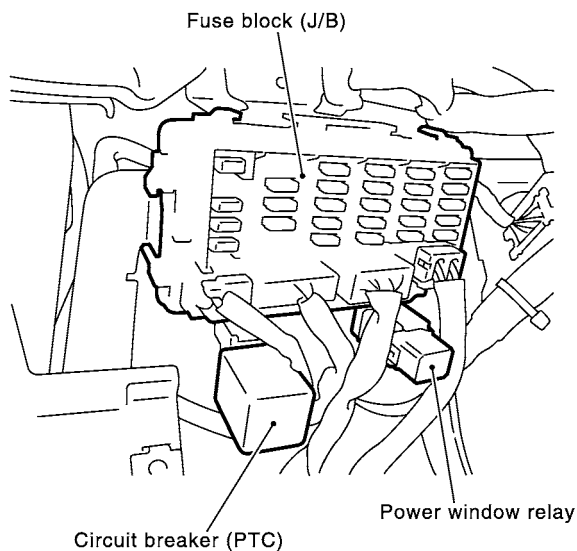
# ELECTRICAL UNITS LOCATION

## PASSENGER COMPARTMENT/LHD MODELS

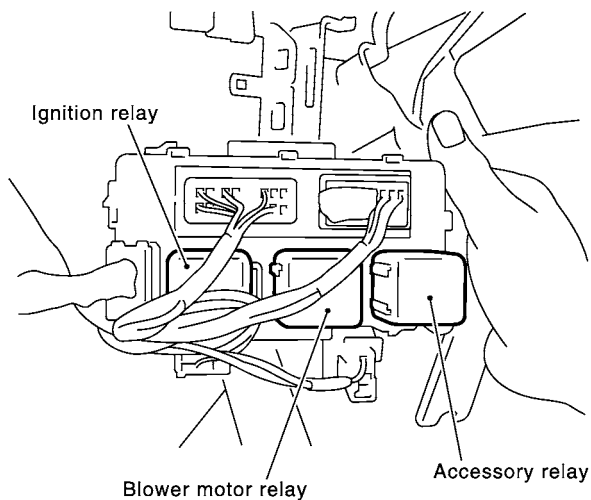
SMA for models with roof □  
mounted driving lamp



**A** Instrument panel LH



Back of the fuse block (J/B)



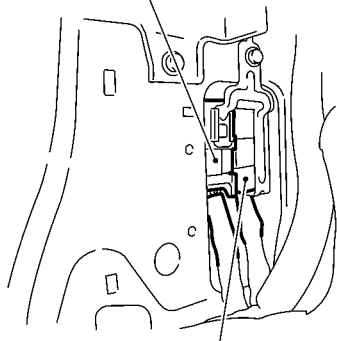


# ELECTRICAL UNITS LOCATION

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

**B** Driver side view with dash side lower finisher removed

Fuel pump relay **(B7)**



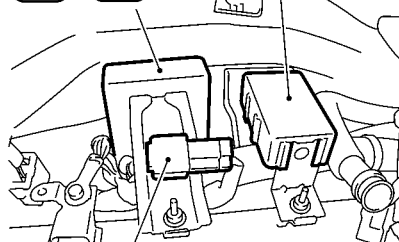
Rear window defogger relay  
**(B6)** (With door mirror defogger)  
**(B29)** (Without door mirror defogger)

**C** Driver side view with upper instrument panel removed

Multi-remote control unit **(M33)**

Time control unit

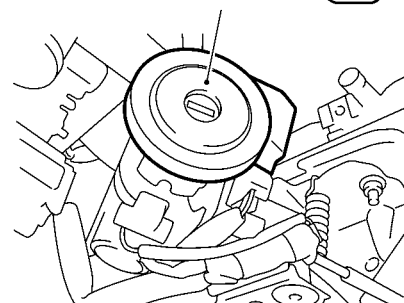
**(M30)** , **(M31)**



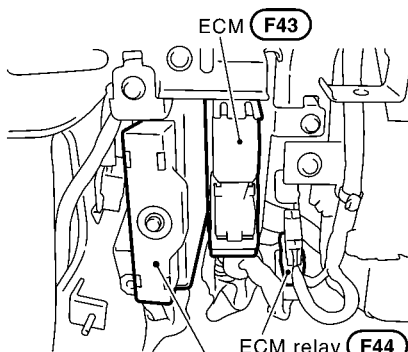
Combination flasher unit  
**(M32)**

**D**

NATS IMMU **(E109)**

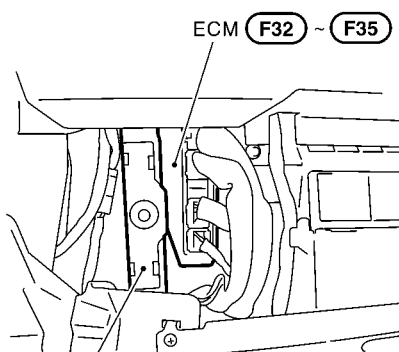


**E** Behind the glove box  
(Gasoline engine models)

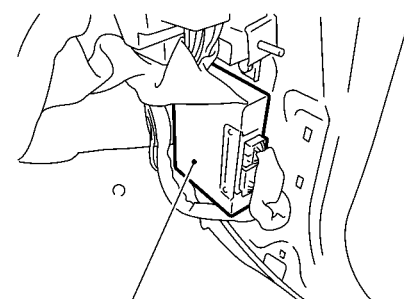


4WD control unit (With ESP)  
4WD/ABS control unit (Without ESP)  
**(E122)**

Behind the glove box  
(Diesel engine models)

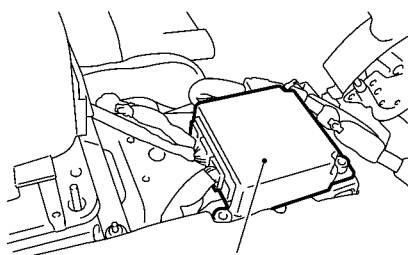


**F** Passenger side view with dash side lower finisher removed



TCM (Transmission control module)  
**(F46)** , **(F47)**

**G** Behind the console box assembly



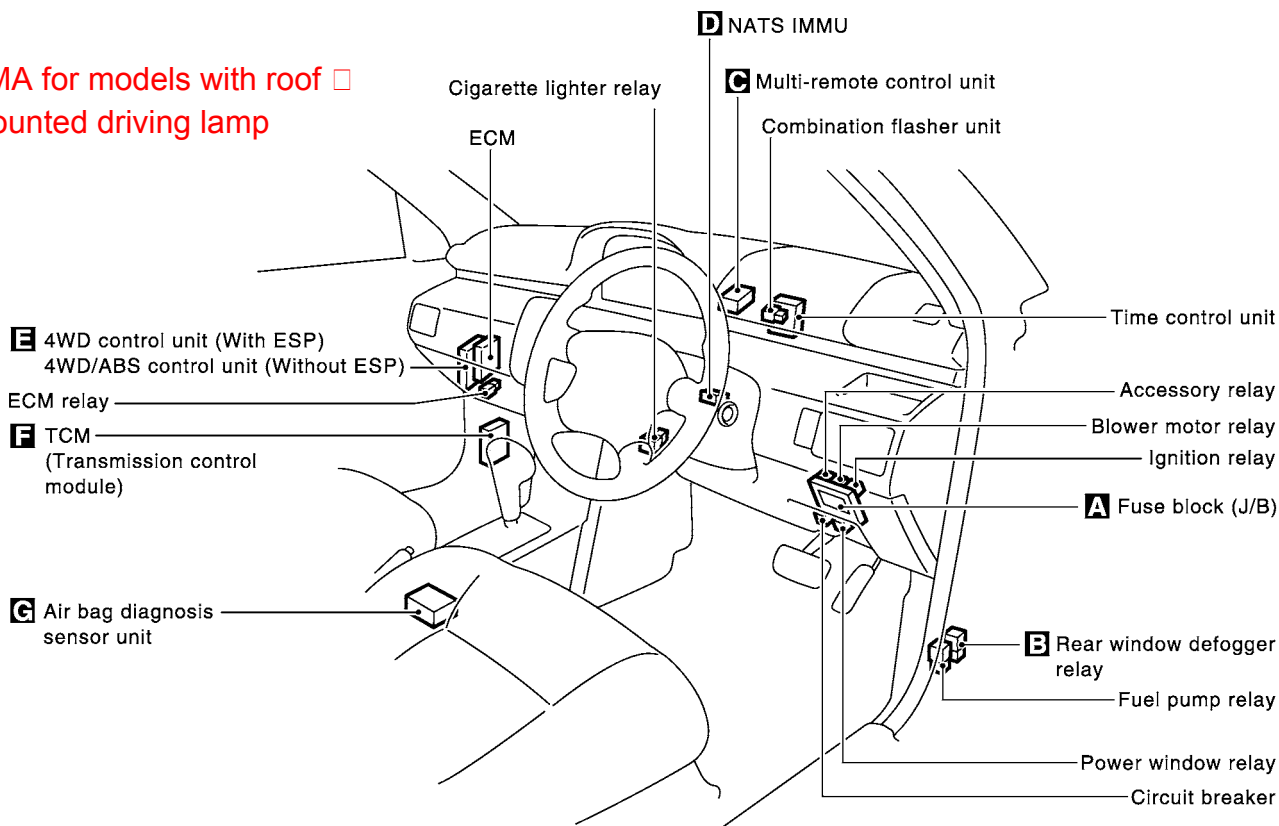
Air bag diagnosis sensor unit  
**(M59)** , **(B14)** , **(B115)**

CKWA0295E

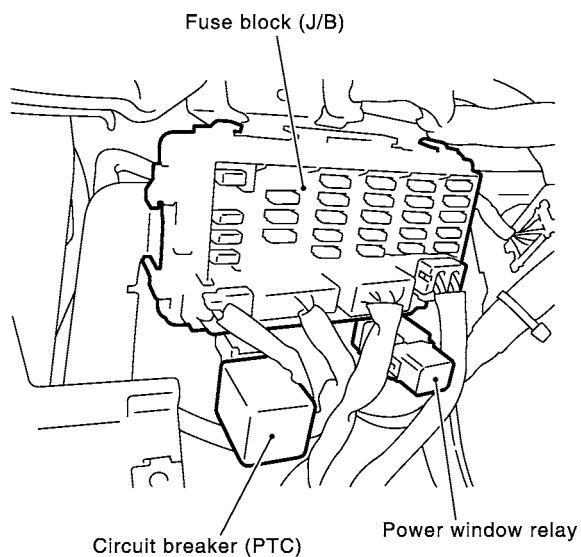
# ELECTRICAL UNITS LOCATION

## PASSENGER COMPARTMENT/RHD MODELS

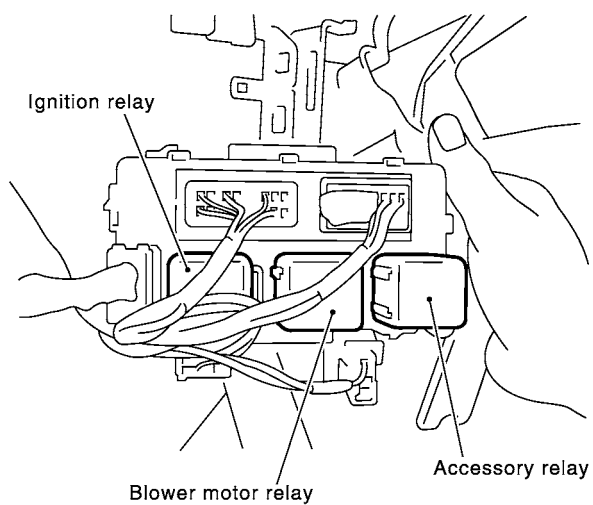
SMA for models with roof □  
mounted driving lamp



**A** Instrument panel RH



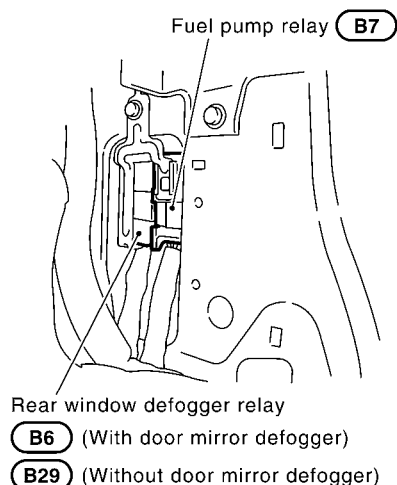
Back of the fuse block (J/B)



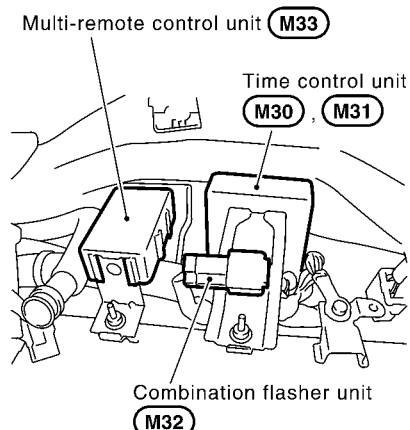
# ELECTRICAL UNITS LOCATION

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

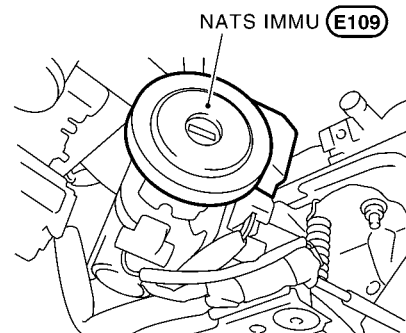
**B** Driver side view with dash side lower finisher removed



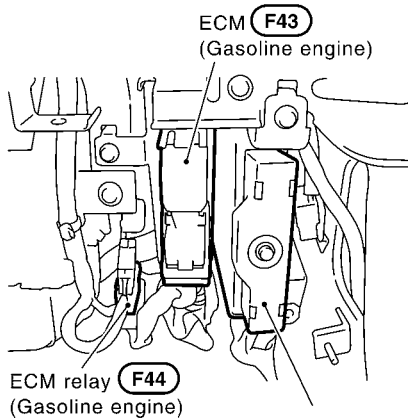
**C** Driver side view with upper instrument panel removed



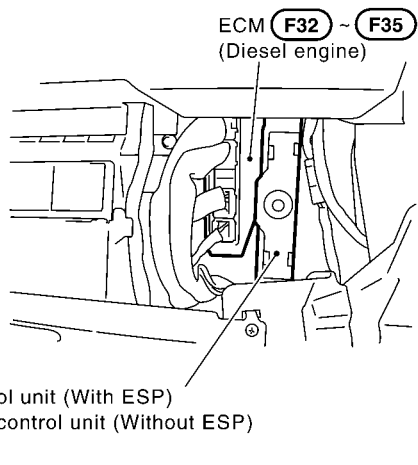
**D**



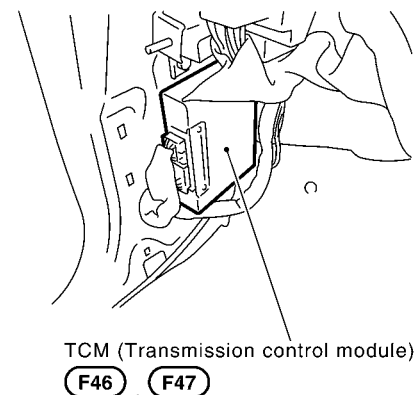
**E** Behind the glove box (Gasoline engine models)



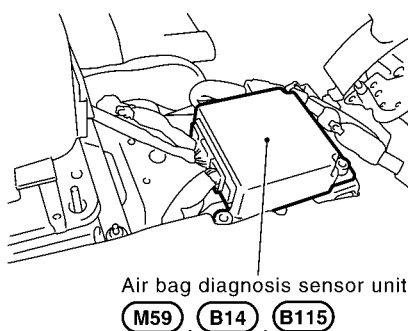
Behind the glove box (Diesel engine models)



**F** Passenger side view with dash side lower finisher removed



**G** Behind the console box assembly



## HARNESS CONNECTOR

PFP:00011

### Description

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

EKS0032B

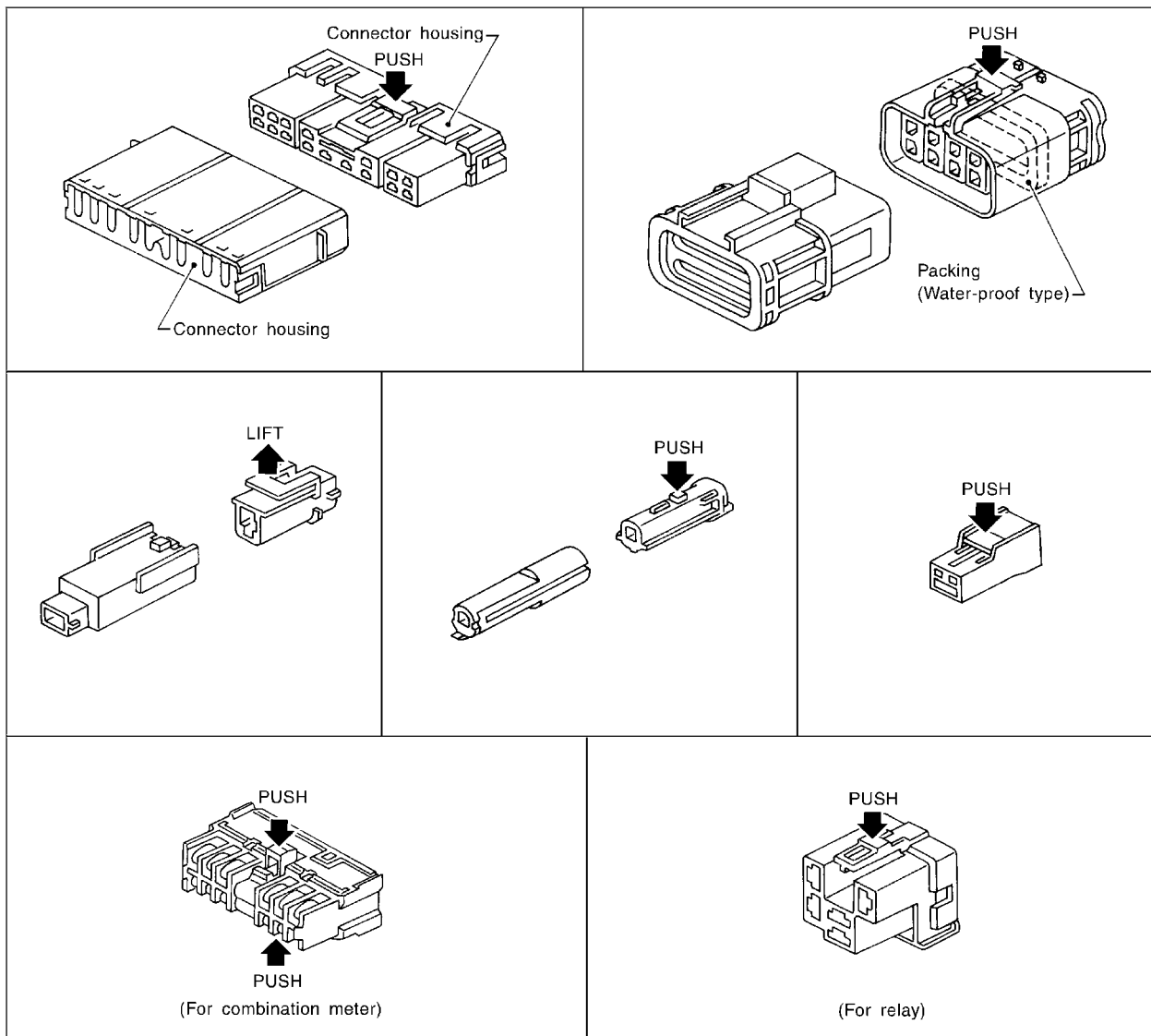
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

#### CAUTION:

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

[Example]



SEL769DA

# HARNESS CONNECTOR

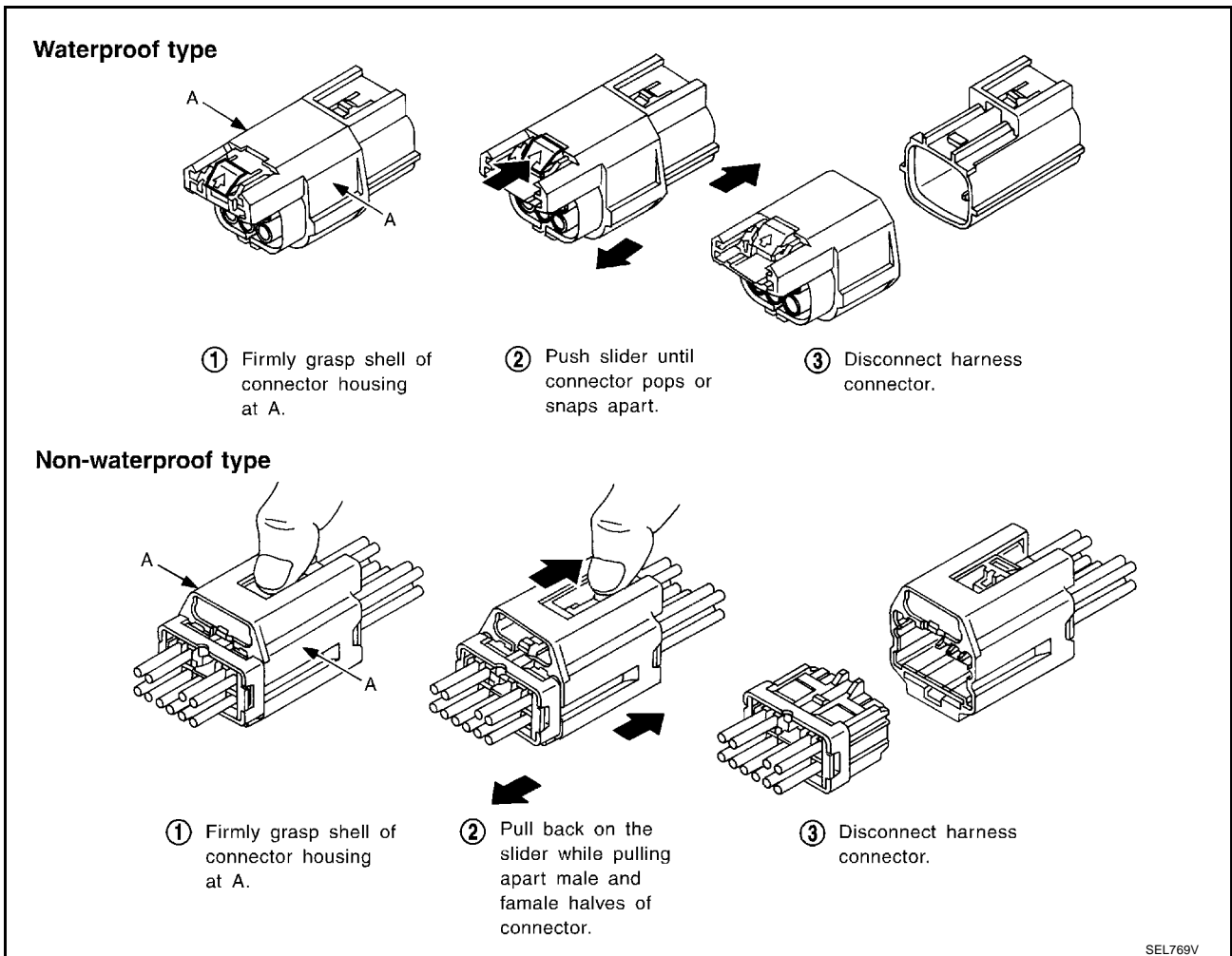
## HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



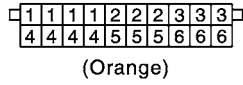
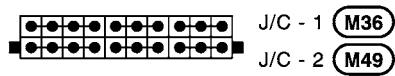
# JOINT CONNECTOR (J/C)

## JOINT CONNECTOR (J/C)

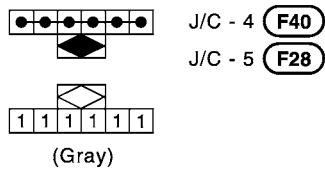
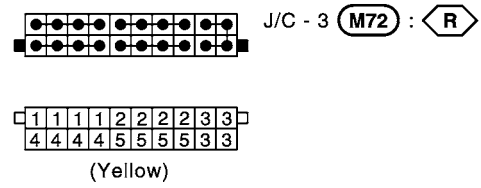
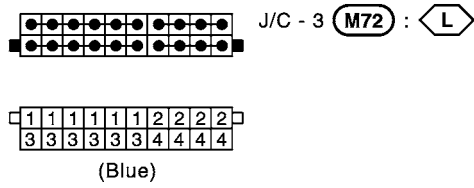
PFP:B4341

### Terminal Arrangement

EKS0032C



L : LHD MODELS  
R : RHD MODELS



# ELECTRICAL UNITS

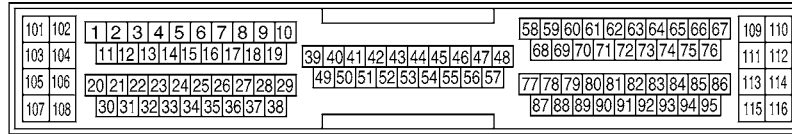
## ELECTRICAL UNITS

### Terminal Arrangement

PFP:00011

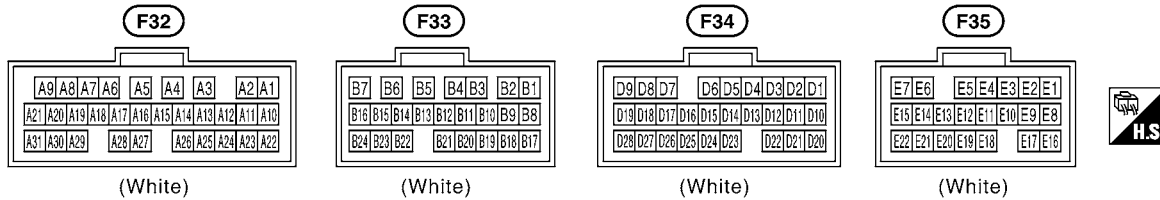
EKS0032D

#### ECM (F43) (Gasline engine models)



(Gray)

#### ECM (Diesel engine models)



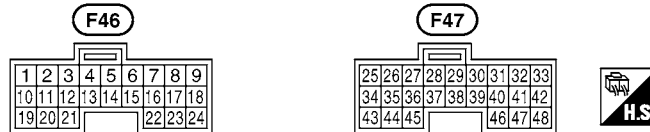
(White)

(White)

(White)

(White)

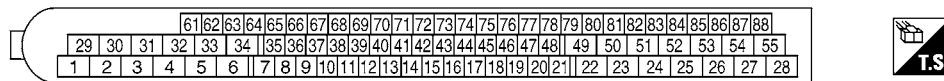
#### TCM (TRANSMISSION CONTROL MODULE)



(White)

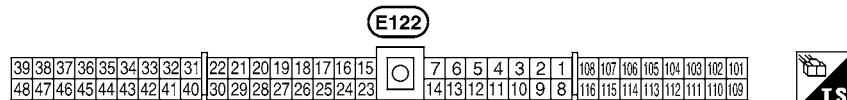
(Gray)

#### ESP/TCS/ABS CONTROL UNIT (B111)



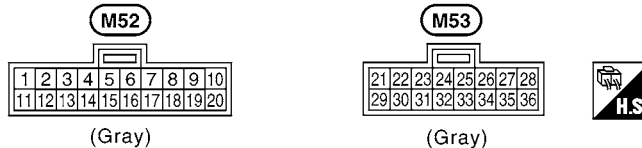
(Black)

#### 4WD CONTROL UNIT (With ESP) 4WD/ABS CONTROL UNIT (Without ESP)



(White)

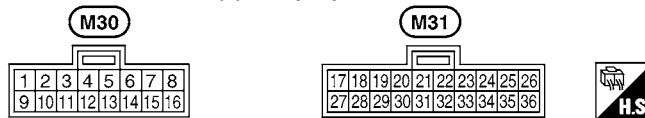
#### A/C AUTO AMP.



(Gray)

(Gray)

#### TIME CONTROL UNIT



(Gray)

(Gray)

CKIA0271E

# STANDARDIZED RELAY

## STANDARDIZED RELAY

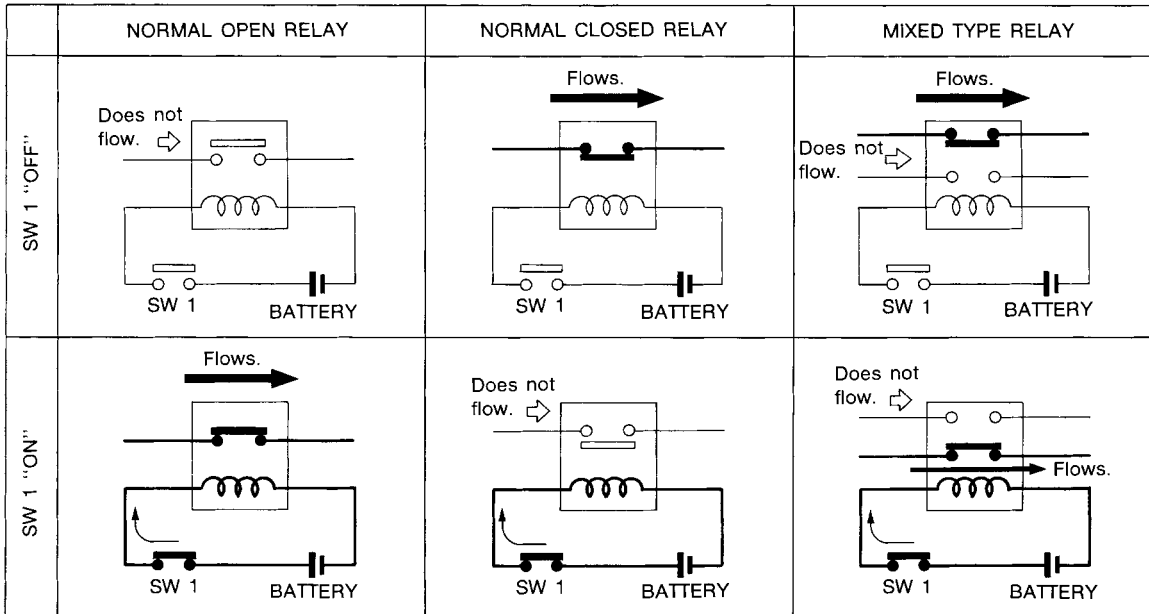
PFP:00011

### Description

EKS0032E

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

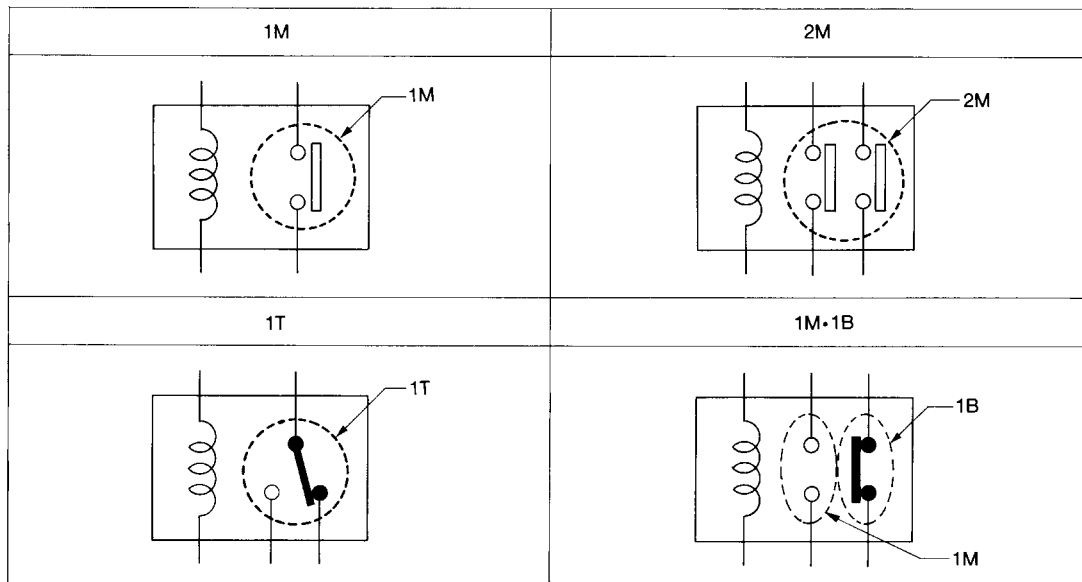
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

### TYPE OF STANDARDIZED RELAYS

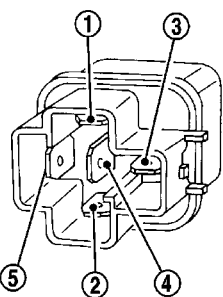
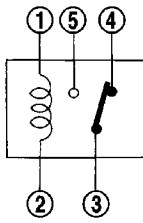
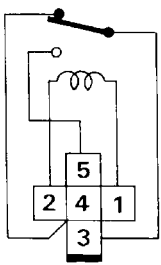
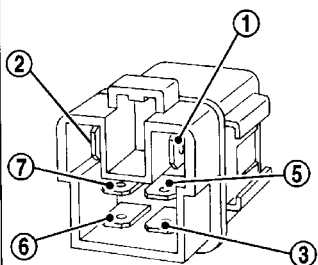
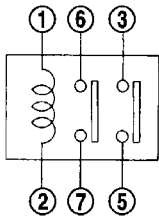
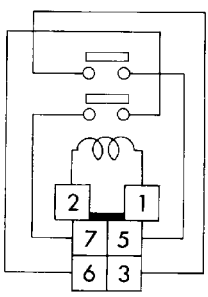
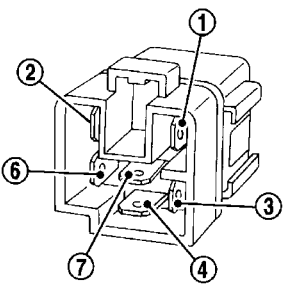
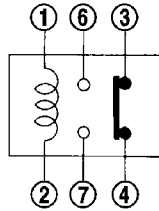
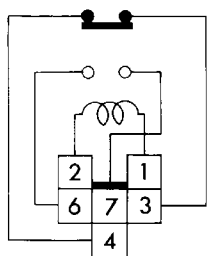
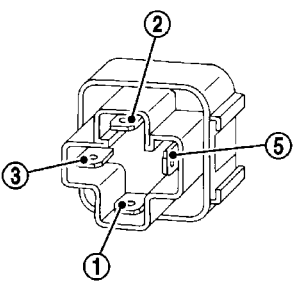
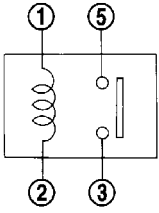
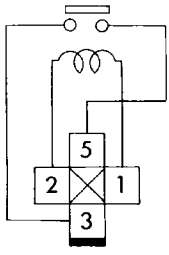
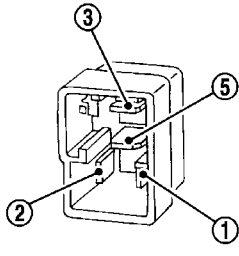
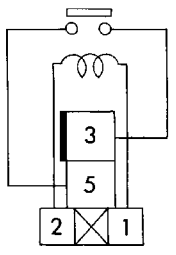
1M ..... 1 Make                      2M ..... 2 Make  
 1T ..... 1 Transfer                    1M-1B ..... 1 Make 1 Break



SEL882H



# 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

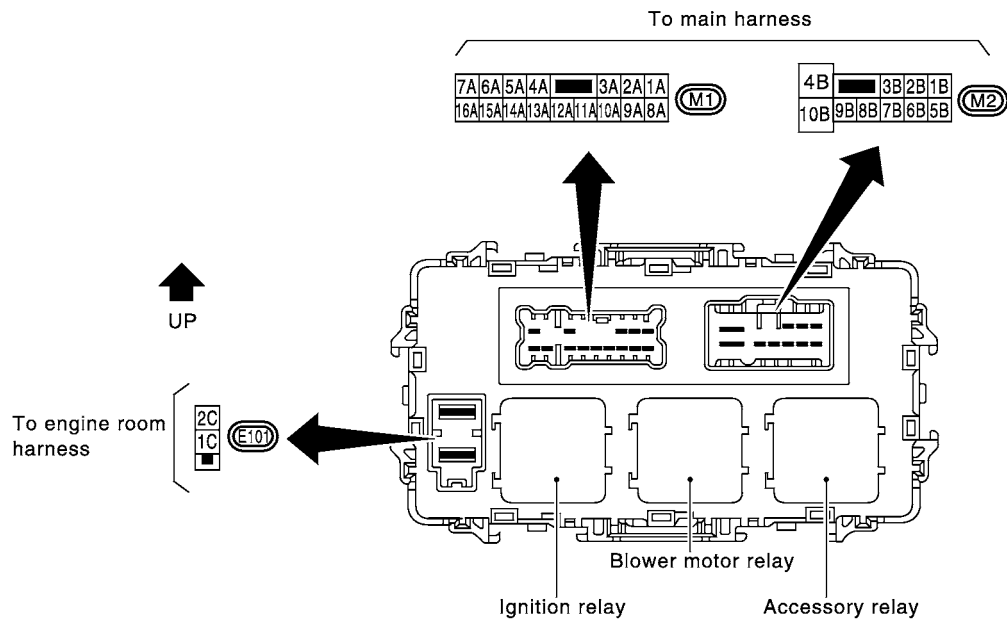
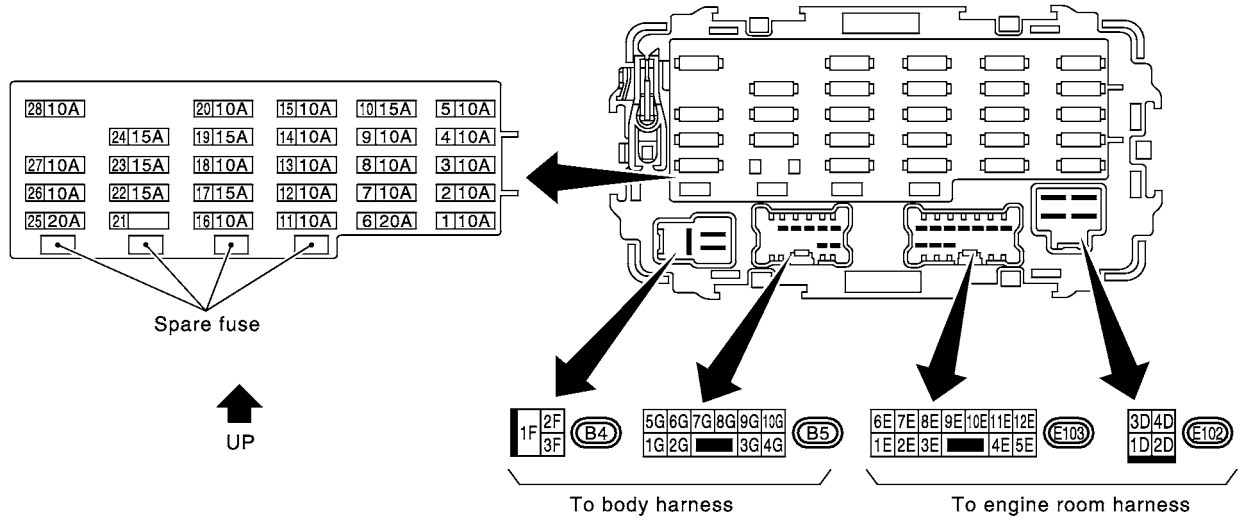
# FUSE BLOCK - JUNCTION BOX (J/B)

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

PFP:24350

### Terminal Arrangement

EKS0032F



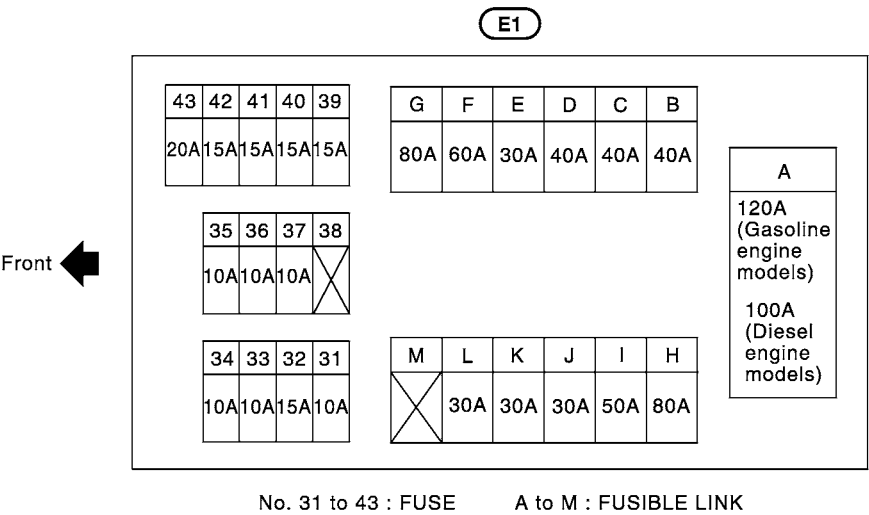
FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX  
Terminal Arrangement

PFP:24381

EKS0032G

SMA for models with roof mounted driving lamp



CKWA0095E

## FUSE AND FUSIBLE LINK BOX

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