

SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

POWER SUPPLY ROUTING	2	MAIN HARNESS/RHD MODELS	34
Schematic	2	ENGINE ROOM HARNESS/LHD MODELS	36
Wiring Diagram — POWER —	3	ENGINE ROOM HARNESS/RHD MODELS	41
BATTERY POWER SUPPLY — IGNITION SW.		ENGINE CONTROL HARNESS	46
IN ANY POSITION	3	BODY HARNESS/LHD MODELS	51
ACCESSORY POWER SUPPLY — IGNITION		BODY HARNESS/RHD MODELS	52
SW. IN "ACC" OR "ON"	7	BODY NO.2 HARNESS/LHD MODELS	53
IGNITION POWER SUPPLY — IGNITION SW.		BODY NO.2 HARNESS/RHD MODELS	54
IN "ON" AND/OR "START"	8	ROOM LAMP HARNESS	55
Fuse	12	FRONT DOOR HARNESS/LHD MODELS	56
Fusible Link	12	FRONT DOOR HARNESS/RHD MODELS	57
Circuit Breaker	12	REAR DOOR HARNESS	58
GROUND	13	BACK DOOR HARNESS	59
Ground Distribution	13	Wiring Diagram Codes (Cell Codes)	60
MAIN HARNESS/LHD MODELS	13	ELECTRICAL UNITS LOCATION	63
MAIN HARNESS/RHD MODELS	15	Electrical Units Location	63
ENGINE ROOM HARNESS/LHD MODELS	17	ENGINE COMPARTMENT	63
ENGINE ROOM HARNESS/RHD MODELS	18	PASSENGER COMPARTMENT/LHD MODELS	64
ENGINE ROOM HARNESS	19	PASSENGER COMPARTMENT/RHD MODELS	66
ENGINE CONTROL HARNESS/QR25 ENGINE		HARNESS CONNECTOR	68
MODELS	20	Description	68
ENGINE CONTROL HARNESS/QR20 ENGINE		HARNESS CONNECTOR (TAB-LOCKING	
MODELS	21	TYPE)	68
ENGINE CONTROL HARNESS/DIESEL		HARNESS CONNECTOR (SLIDE-LOCKING	
ENGINE MODELS	22	TYPE)	69
BODY HARNESS/LHD MODELS	23	JOINT CONNECTOR (J/C)	70
BODY HARNESS/RHD MODELS	24	Terminal Arrangement	70
BODY NO.2 HARNESS/LHD MODELS	25	ELECTRICAL UNITS	71
BODY NO.2 HARNESS/RHD MODELS	26	Terminal Arrangement	71
BODY NO.2 HARNESS	27	STANDARDIZED RELAY	72
BACK DOOR SUB HARNESS/REAR WINDOW		Description	72
DEFOGGER HARNESS	28	NORMAL OPEN, NORMAL CLOSED AND	
HARNESS	29	MIXED TYPE RELAYS	72
Harness Layout	29	TYPE OF STANDARDIZED RELAYS	72
HOW TO READ HARNESS LAYOUTS	29	FUSE BLOCK - JUNCTION BOX (J/B)	74
OUTLINE/LHD MODELS	30	Terminal Arrangement	74
OUTLINE/RHD MODELS	31	FUSE AND FUSIBLE LINK BOX	75
MAIN HARNESS/LHD MODELS	32	Terminal Arrangement	75

POWER SUPPLY ROUTING

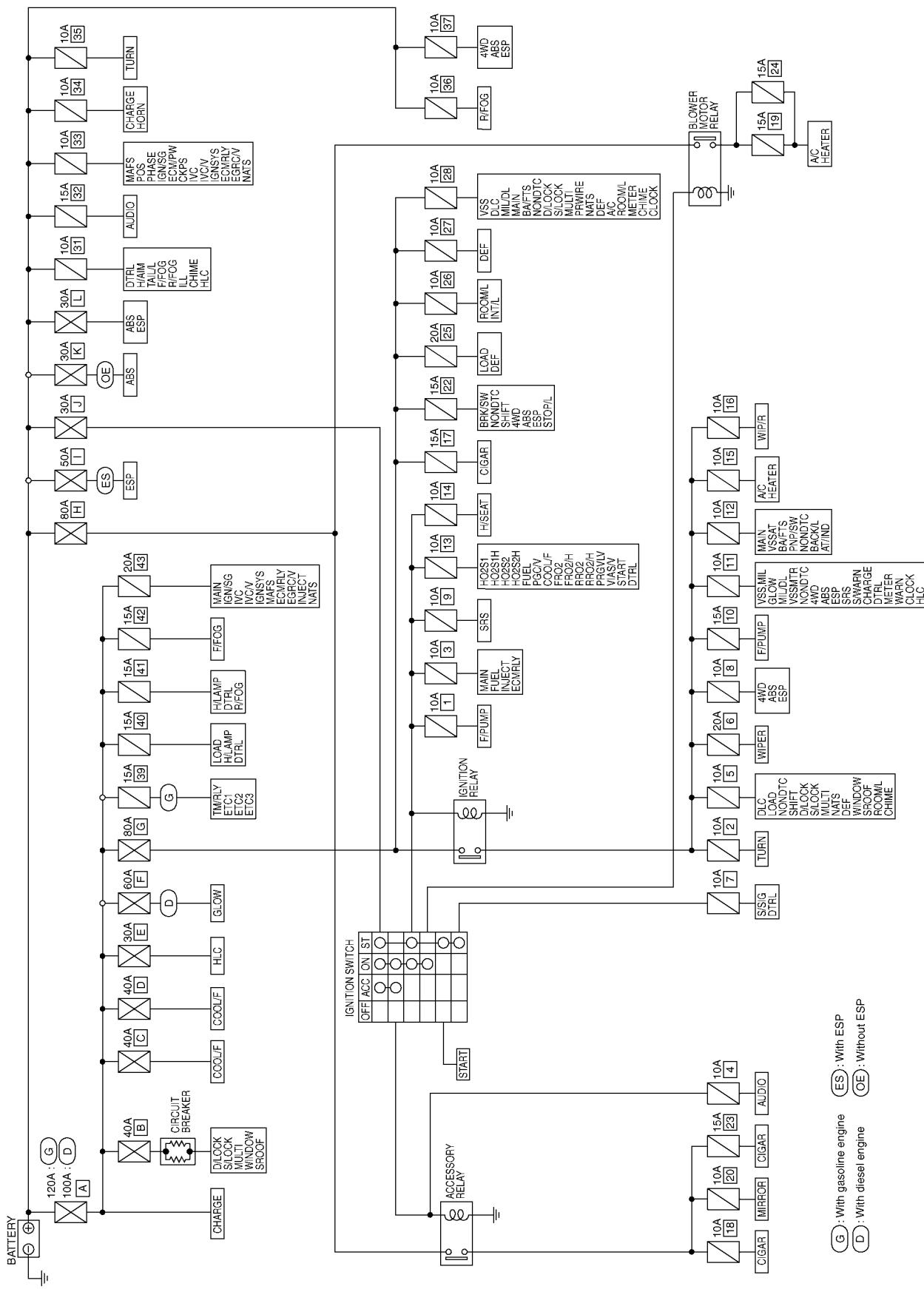
POWER SUPPLY ROUTING

PFP:00011

Schematic

SMA for models with roof mounted driving lamp

EKS00322



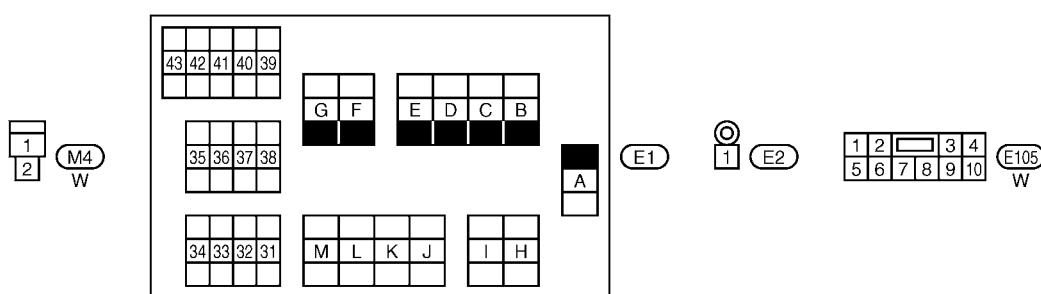
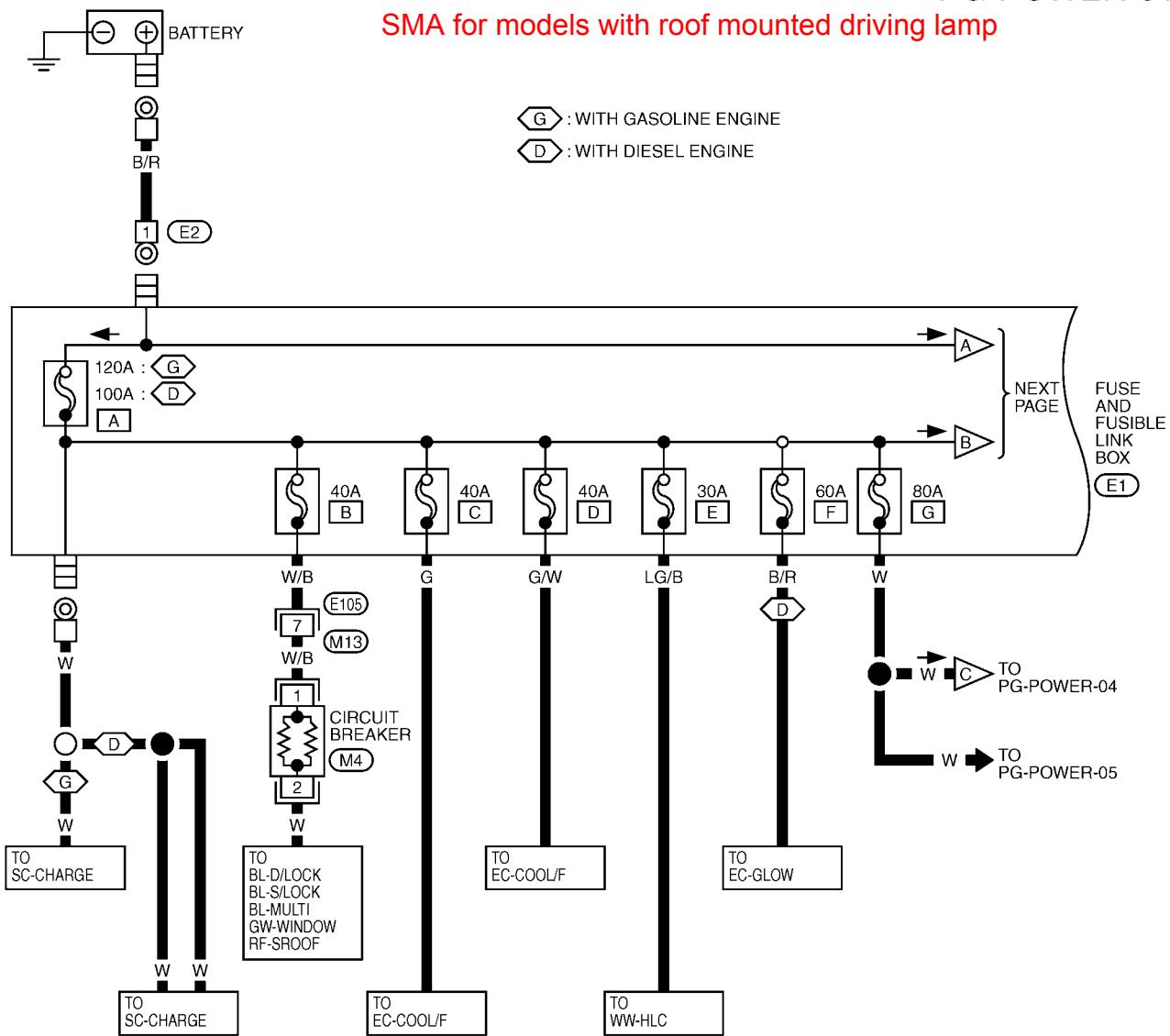
POWER SUPPLY ROUTING

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

EKS00323

PG-POWER-01

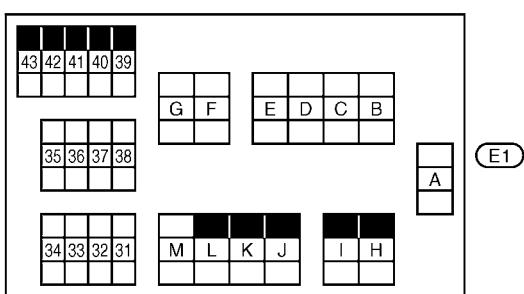
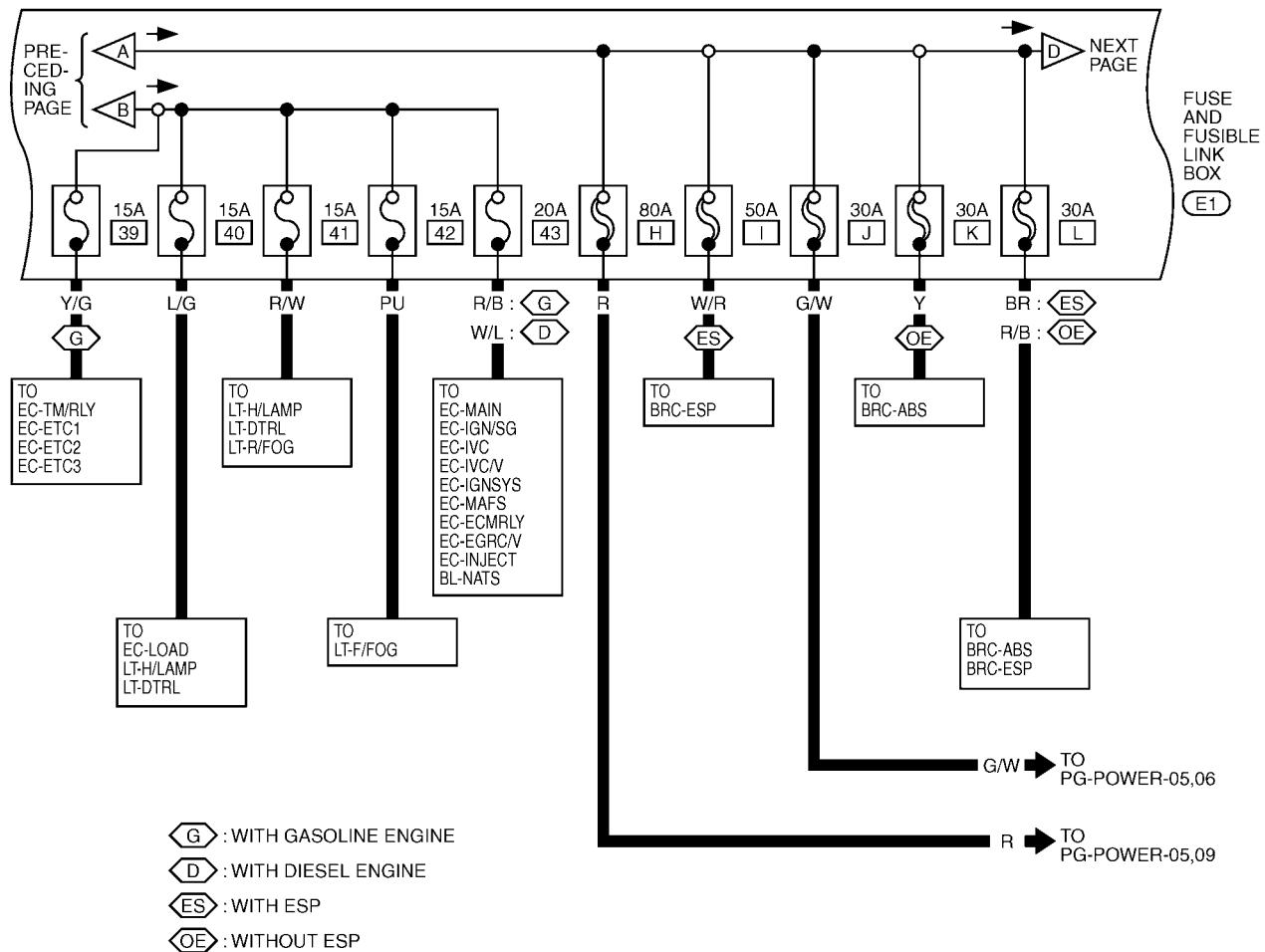
SMA for models with roof mounted driving lamp



TKWA0120E

POWER SUPPLY ROUTING

PG-POWER-02



TKWA0731E

POWER SUPPLY ROUTING

PG-POWER-03

A

B

C

D

E

F

G

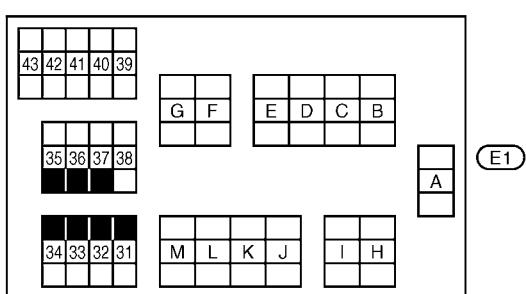
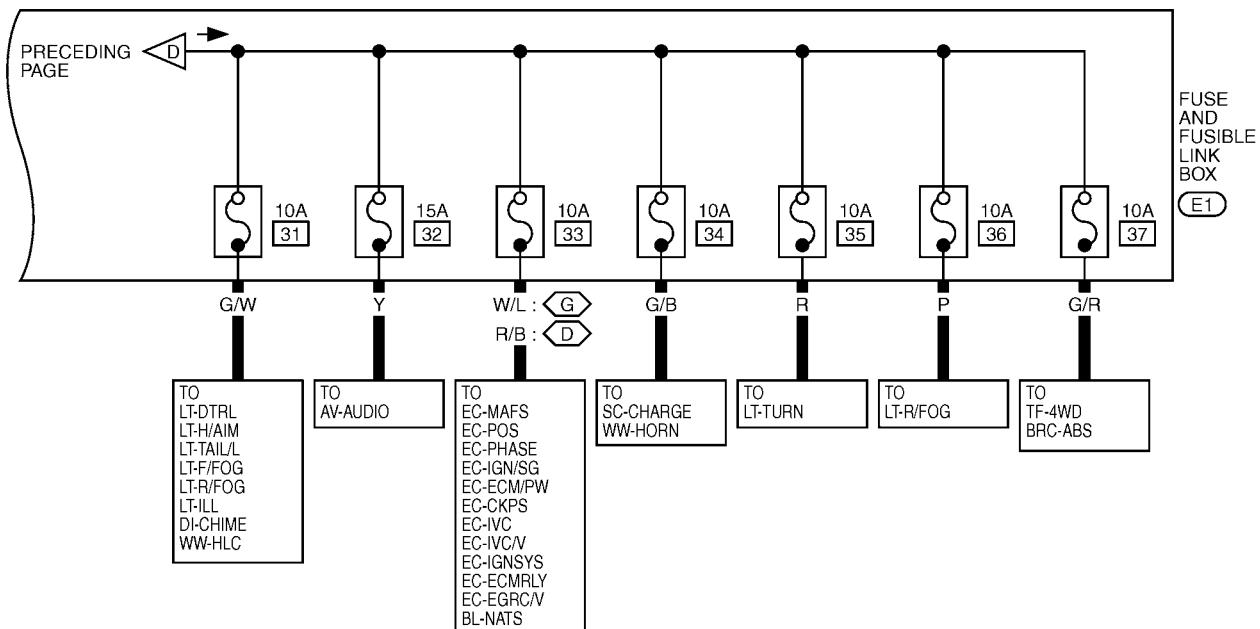
H

J

PG

L

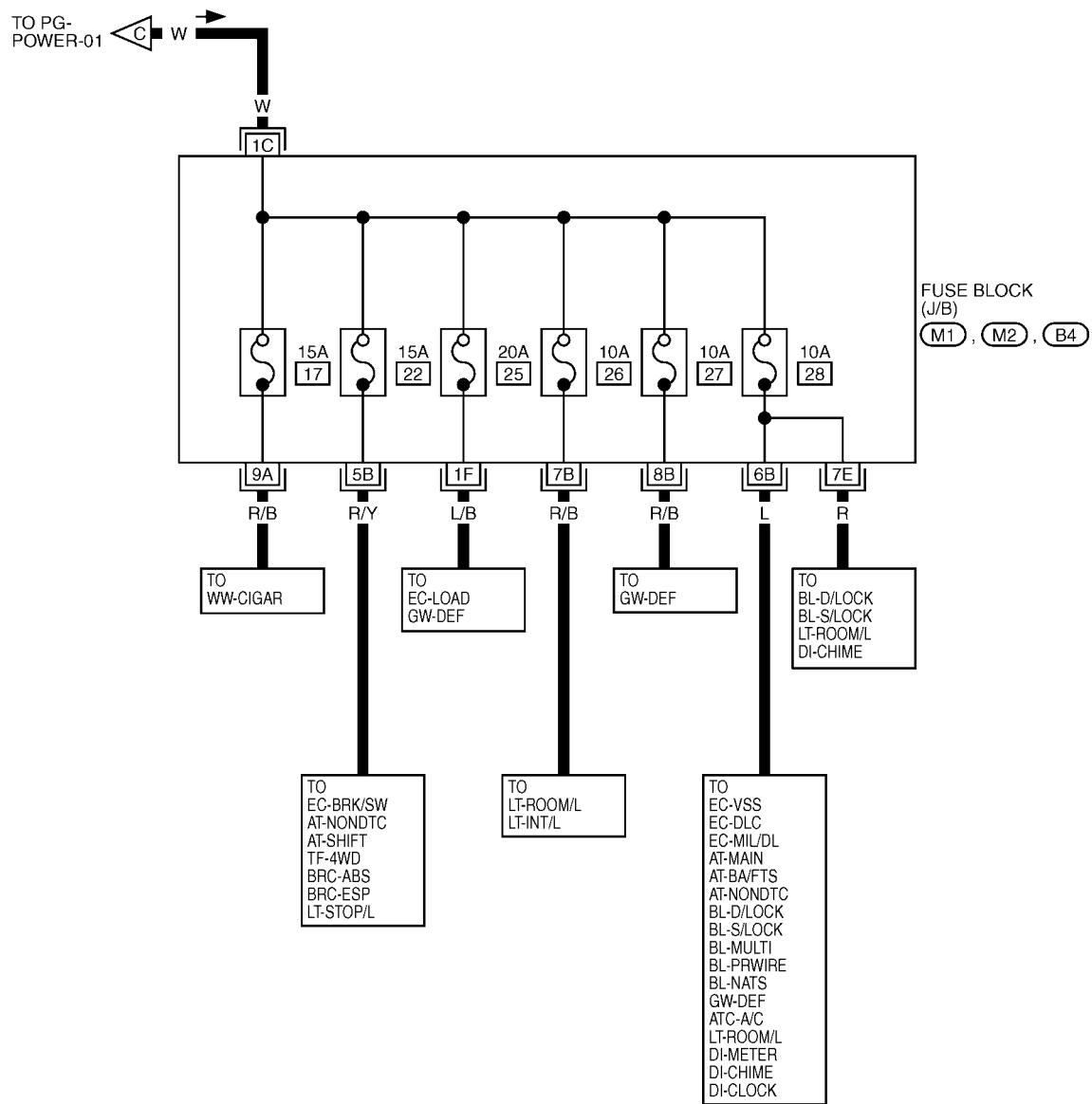
M



TKWA0732E

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

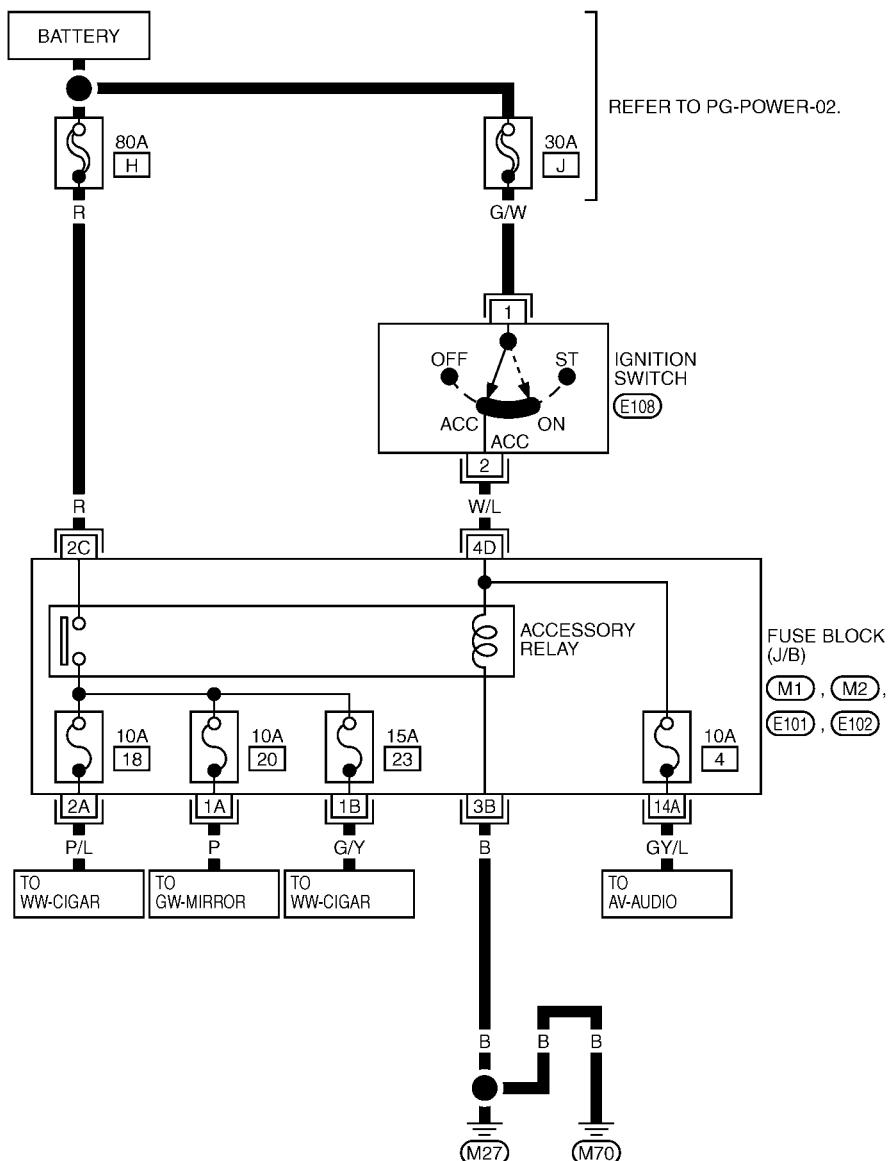
UP

TKWA0132E

POWER SUPPLY ROUTING

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

PG-POWER-05



3 5 1 (E108)
 4 2 6
 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

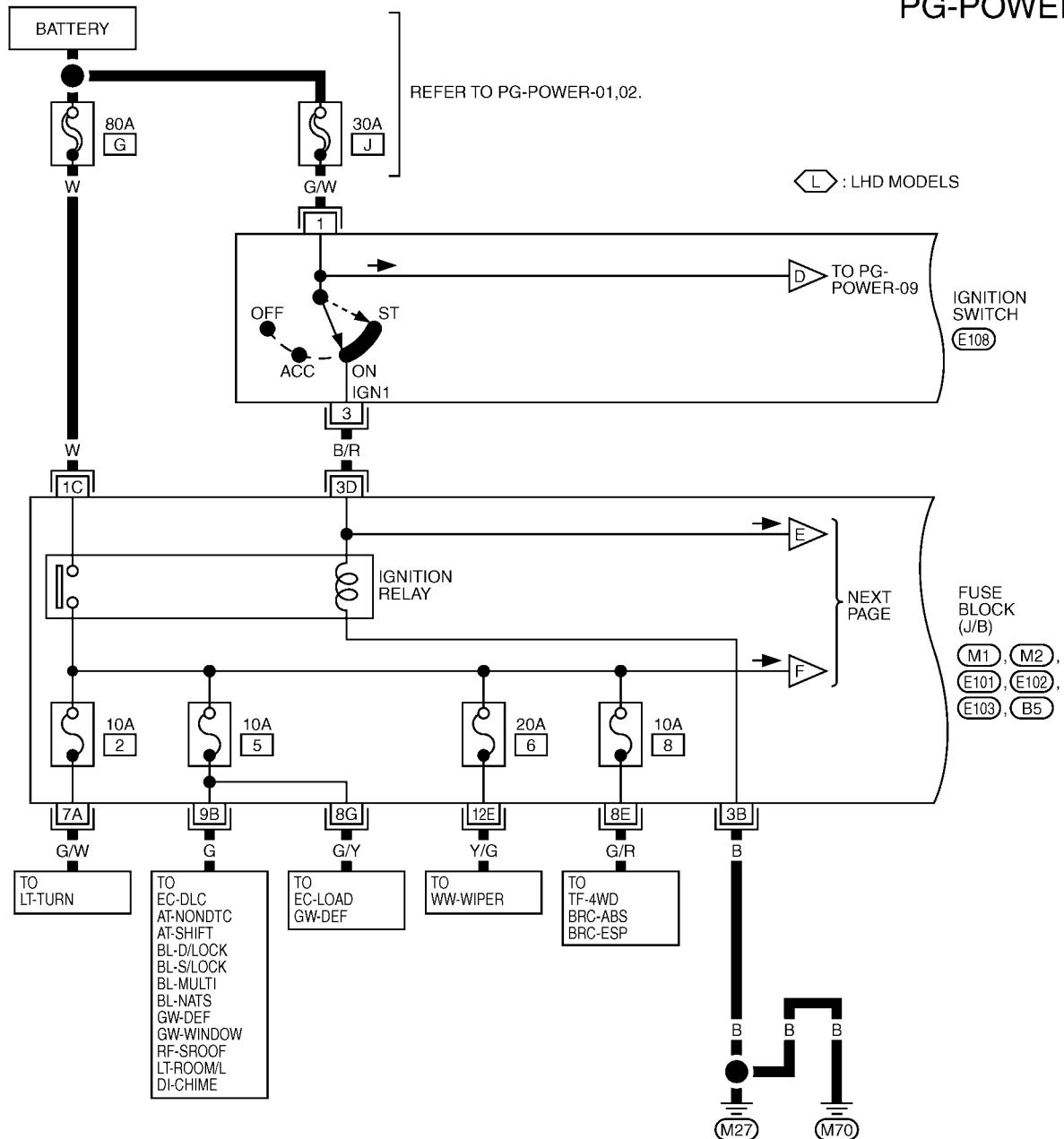
UP

TKWA0123E

POWER SUPPLY ROUTING

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

PG-POWER-06



3	5	1
4	2	6

I 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

B

C

D

E

F

G

H

I

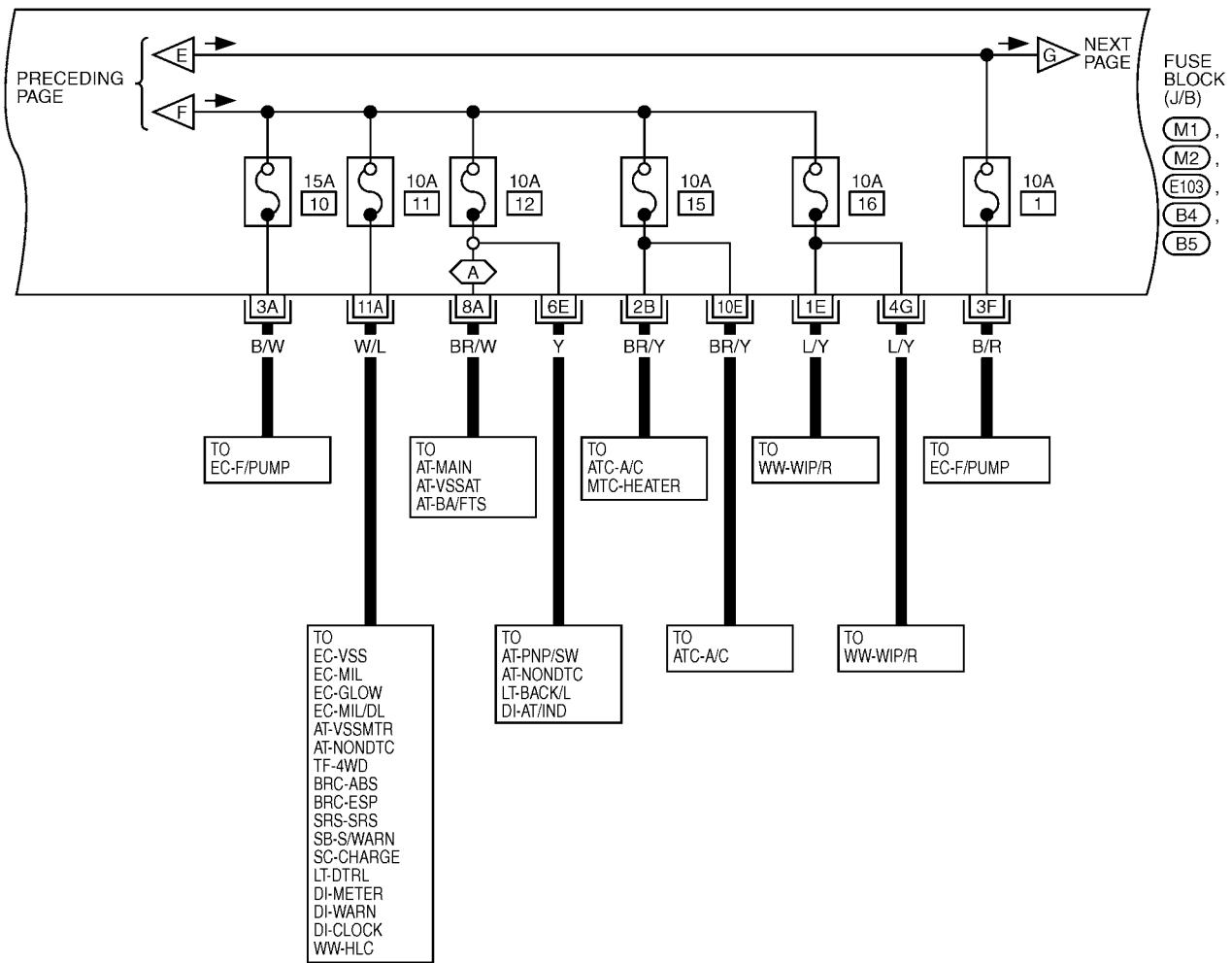
J

PG

L

M

Ⓐ : 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

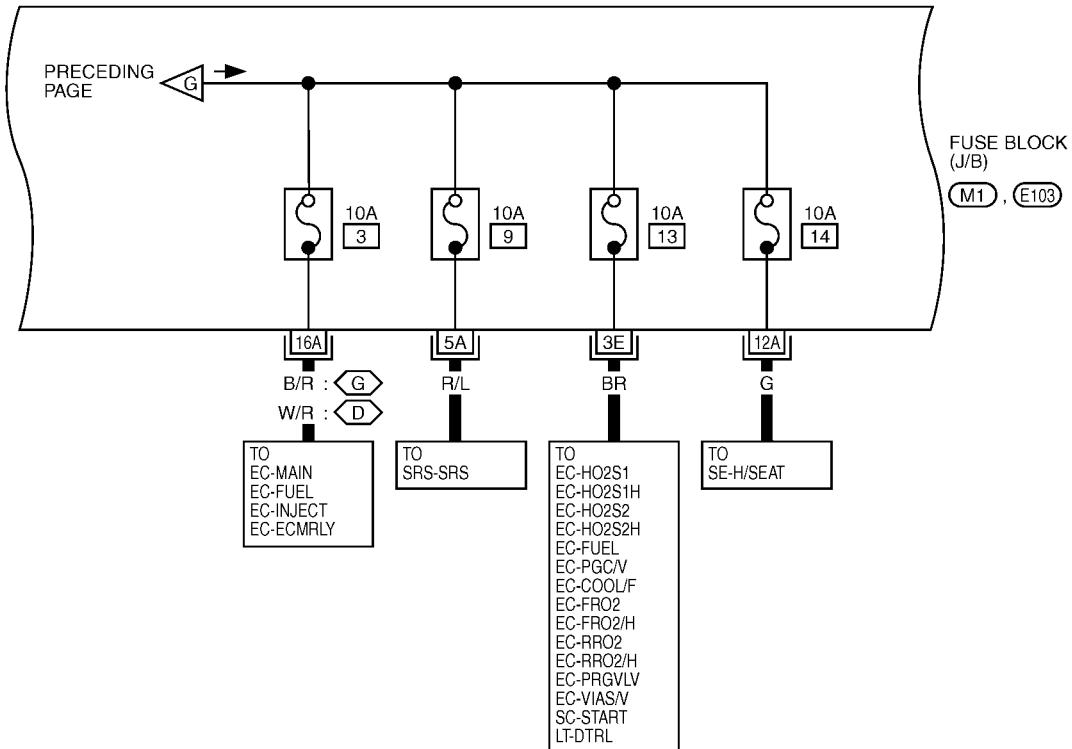
UP ←

TKWA0266E

POWER SUPPLY ROUTING

PG-POWER-08

(G) : WITH GASOLINE ENGINE
(D) : WITH DIESEL ENGINE



REFER TO THE FOLLOWING.

-FUSE BLOCK-JUNCTION BOX (J/B)

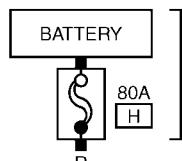
1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

UP

TKWA0733E

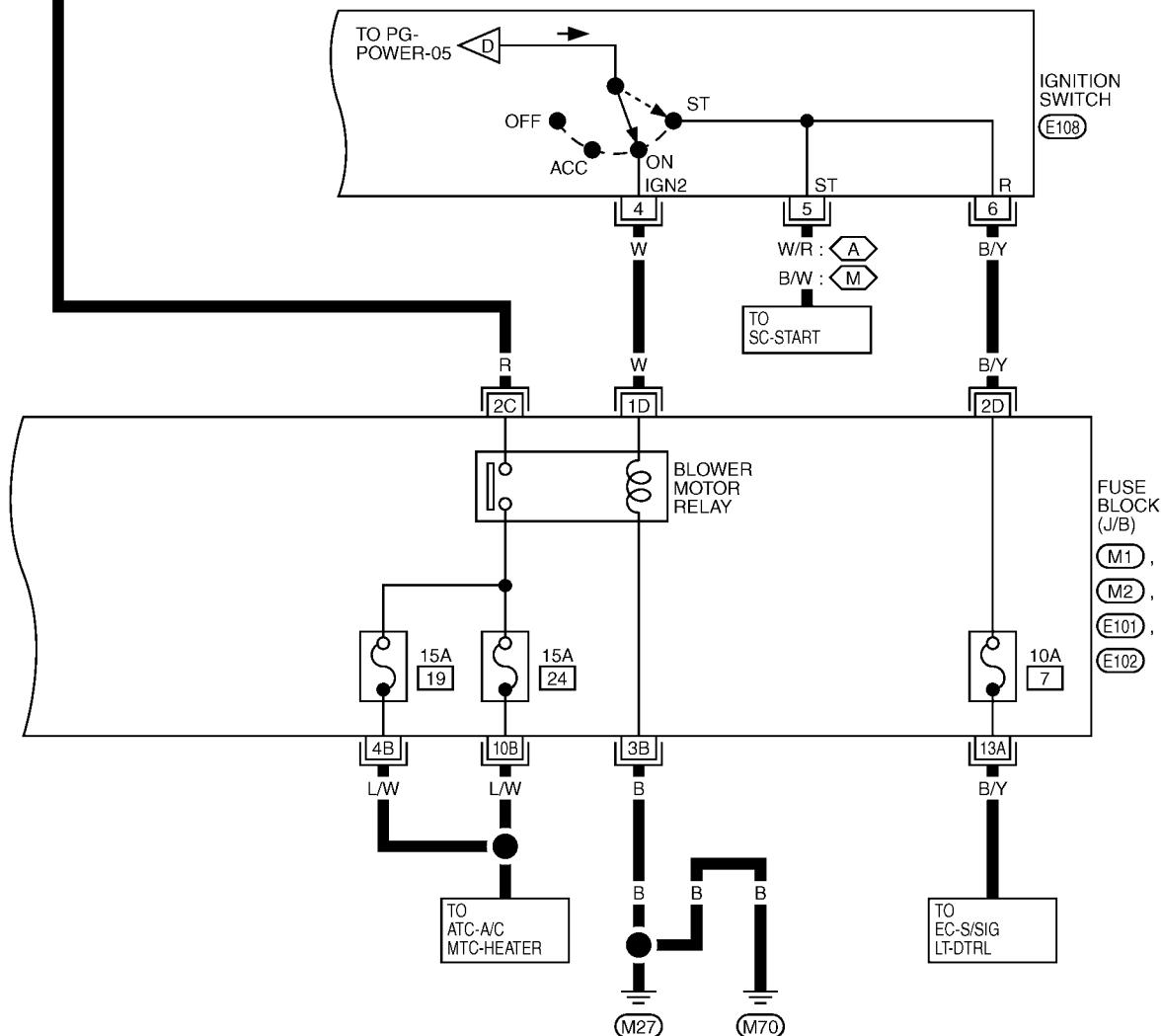
POWER SUPPLY ROUTING

PG-POWER-09



REFER TO PG-POWER-02.

(A) : WITH A/T
(M) : WITH M/T



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

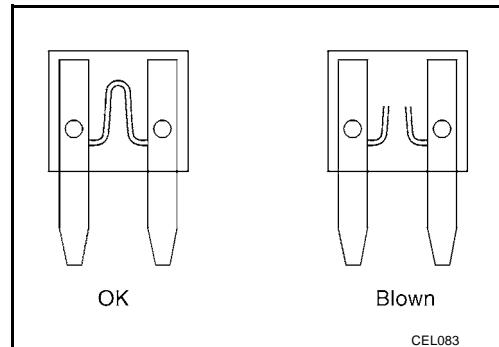
TKWA0127E

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.



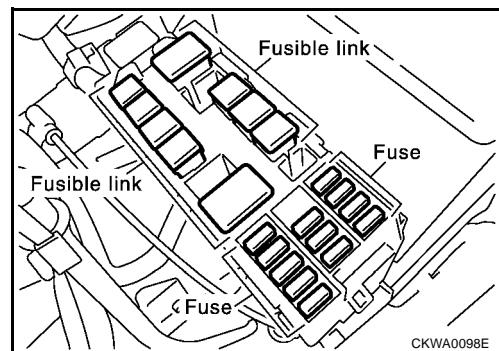
Fusible Link

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:

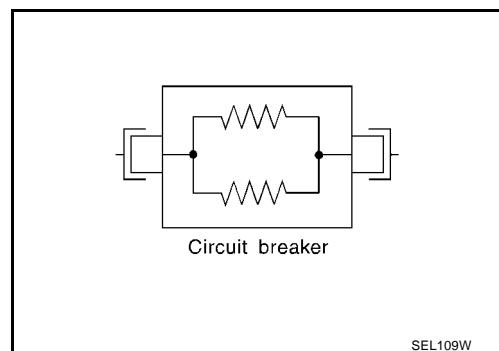
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of incident.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other wiring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



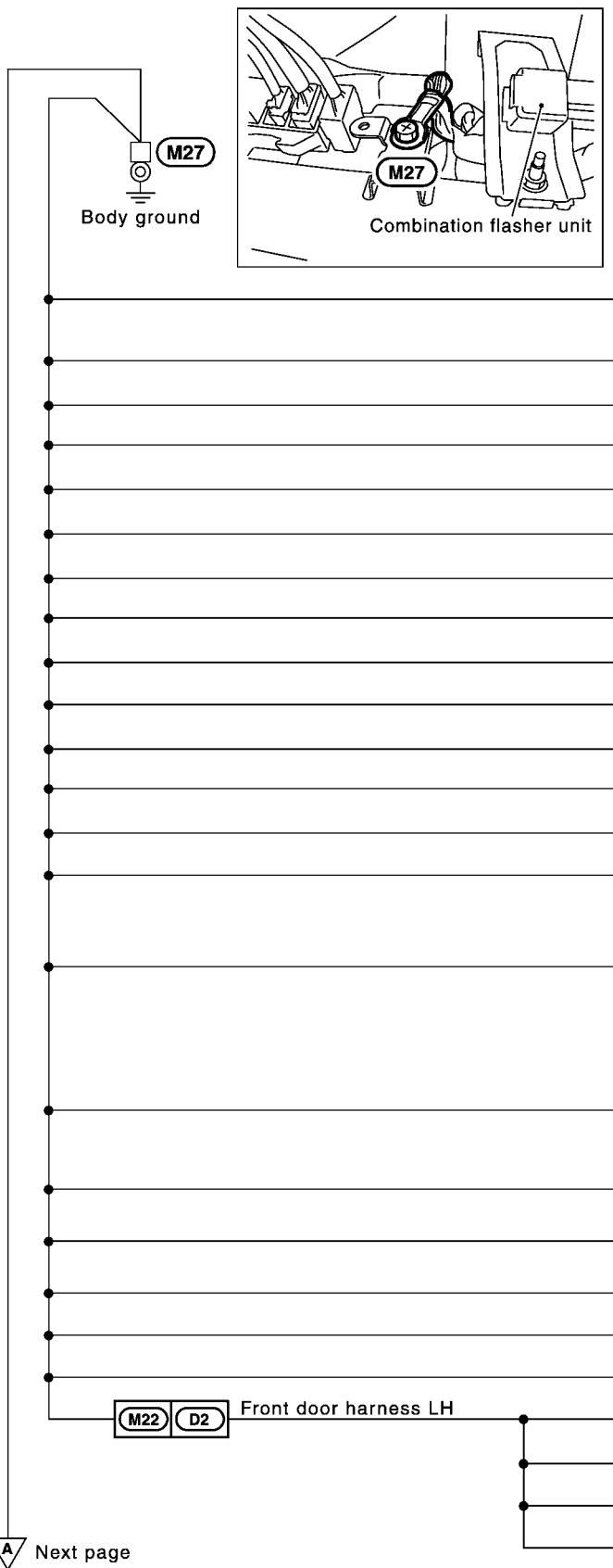
GROUND

PFP:00011

Ground Distribution
MAIN HARNESS/LHD MODELS

SMA for models with roof mounted driving lamp

EKS0032H



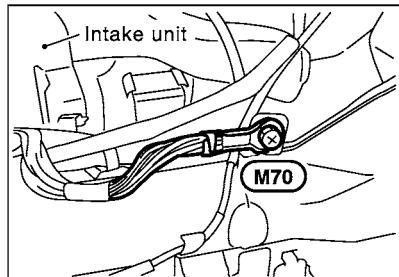
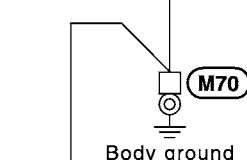
A Next page

CONNECTOR 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
(M33)	Multi-remote control unit
(M35)	Front power socket
(M39)	4WD mode switch
(M42)	Audio unit
(M46)	Combination meter (Terminal No. 47) • Air bag warning lamp • Fuel gauge • Water temperature gauge • Speedometer • Tachometer • Odo/trip meter • Clock
(M46)	Combination meter (Terminal No. 48) • ABS indicator • ESP off indicator • Rear fog • Turn signal • A/T indicator
(M46)	Combination meter (Terminal No. 60) • High beam indicator
(M46)	Combination meter (Terminal No. 66) • Odo/trip illumination • Meter illumination
(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)

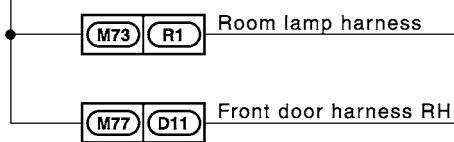
A
B
C
D
E
F
G
H
I
J
PG
L
M

GROUND

A Preceding page



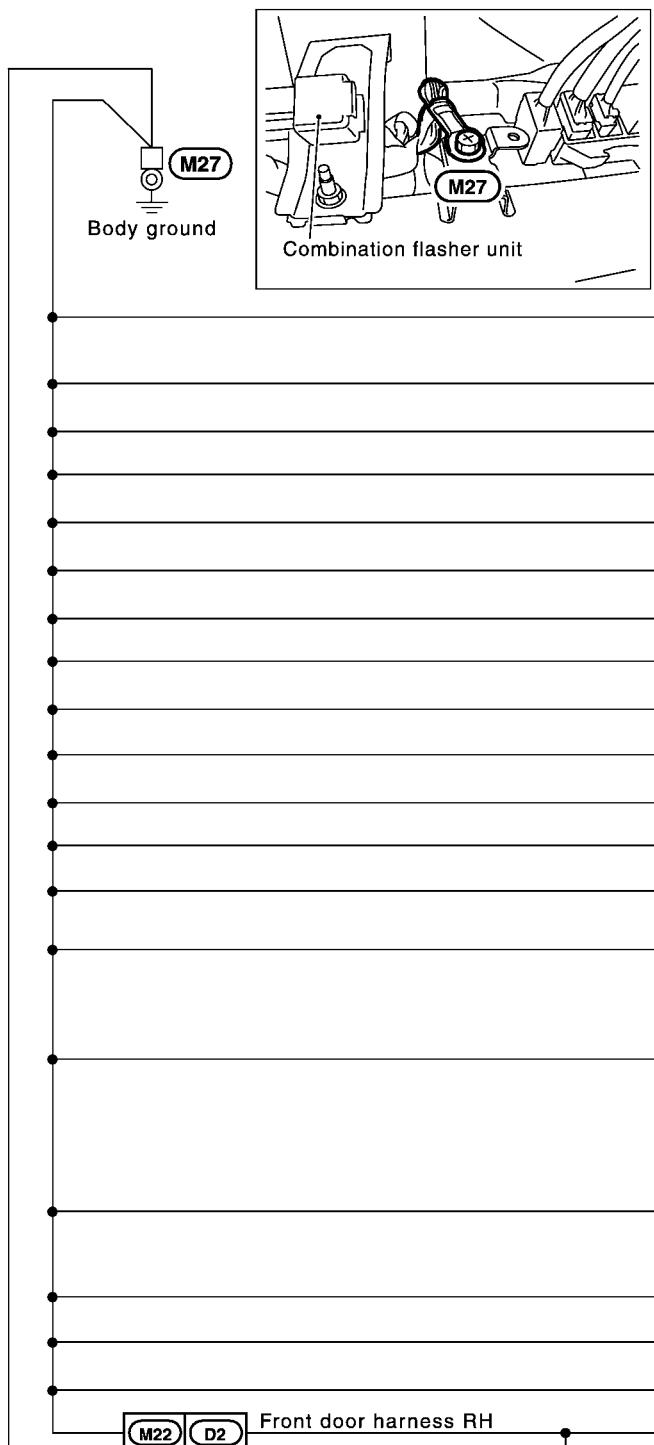
CONNECTOR NUMBER	CONNECT TO
(M8)	Cigarette lighter relay
(M37)	Mode door motor (With auto A/C)
(M38)	Airmix door motor (With auto A/C)
(M47)	Intake door motor (With auto A/C)
(M50)	Rear window defogger switch (Terminal No. 2)
(M50)	Rear window defogger switch (Terminal No. 4)
(M50)	Rear window defogger switch (Terminal No. 6)
(M52)	A/C auto amp. (With auto A/C)
(M54)	Fan switch (With manual A/C)
(M55)	Heater control panel (Terminal No. 5) (With manual A/C)
(M55)	Heater control panel (Terminal No. 6) (With manual A/C)
(M56)	Cigarette lighter socket • Cigarette lighter • Illumination
(M58)	A/T device (Terminal No. 2)
(M58)	A/T device (Terminal No. 4)
(M58)	A/T device (Terminal No. 6)
(M67)	Fan control amp. (With auto A/C)
(M82)	CD autochanger
(R2)	Spot lamp
(R3)	Sunroof switch
(D14)	Door mirror actuator (Passenger side)



GROUND

MAIN HARNESS/RHD MODELS

SMA for models with roof mounted driving lamp



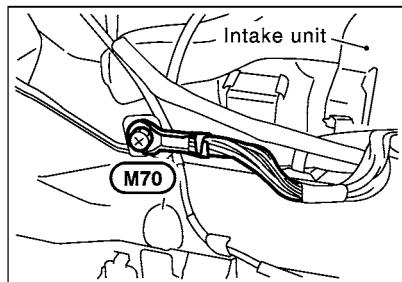
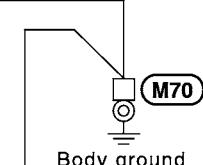
CONNECTOR NUMBER	CONNECT TO
(M2)	Fuse block (J/B) (Terminal No. 3B) • Accessory relay • Ignition relay • Blower motor relay
(M3)	Power window relay
(M5)	Date link connector (Terminal No. 4)
(M23)	Headlamp washer switch (Terminal No. 2) (With headlamp washer)
(M23)	Headlamp washer switch (Terminal No. 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)

Next page

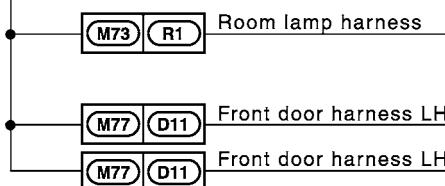
CKWA0045E

GROUND

A Preceding page

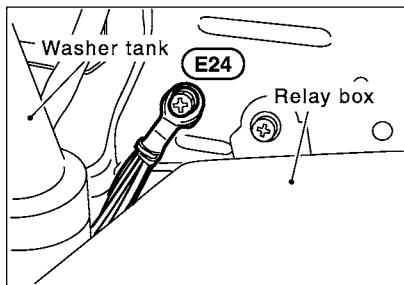
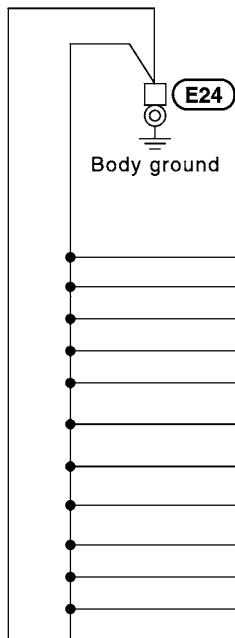


CONNECTOR NUMBER	CONNECT TO
(M8)	Cigarette lighter relay
(M33)	Multi-remote control unit
(M37)	Mode door motor (With auto A/C)
(M38)	Air mix door motor (With auto A/C)
(M42)	Audio unit
(M47)	Intake door motor (With auto A/C)
(M50)	Rear window defogger switch (Terminal No. 2)
(M50)	Rear window defogger switch (Terminal No. 4)
(M50)	Rear window defogger switch (Terminal No. 6)
(M52)	A/C auto amp. (With auto A/C)
(M54)	Fan switch (With manual A/C)
(M55)	Heater control panel (Terminal No. 5) (With manual A/C)
(M55)	Heater control panel (Terminal No. 6) (With manual A/C)
(M56)	Cigarette lighter socket • Cigarette lighter • Illumination
(M58)	A/T device (Terminal No. 2)
(M58)	A/T device (Terminal No. 4)
(M58)	A/T device (Terminal No. 6)
(M67)	Fan control amp. (With auto A/C)
(M80)	Dongle unit
(M82)	CD autochanger
(R2)	Spot lamp
(R3)	Sunroof switch
(D14)	Door mirror actuator (Passenger side)
(D17)	Front door lock actuator (Passenger side)

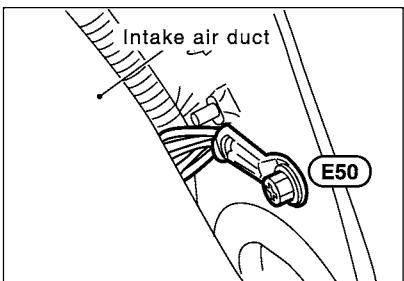
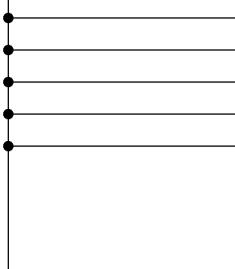


GROUND

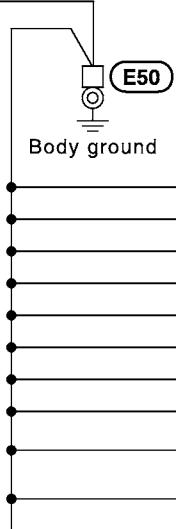
ENGINE ROOM HARNESS/LHD MODELS



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



CONNECTOR NUMBER	CONNECT TO
(E19)	Brake fluid level switch
(E20)	Side turn signal lamp RH
(E25)	Front turn signal lamp RH
(E47)	Front turn signal lamp LH
(E48)	Side turn signal lamp LH



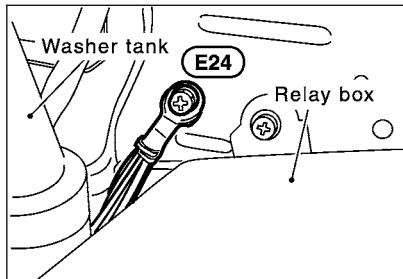
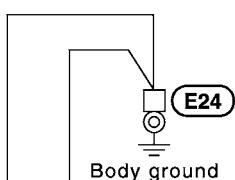
CONNECTOR NUMBER	CONNECT TO
(E18)	Front wiper motor
(E26)	Headlamp RH
(E27)	Front fog lamp RH
(E29)	Parking lamp RH
(E41)	Cooling fan motor-1
(E42)	Cooling fan motor-2
(E44)	Headlamp aiming motor LH
(E54)	Option connector for hood switch
(E112)	Combination switch (Terminal No. 17) (Front wiper and washer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

CKWA0047E

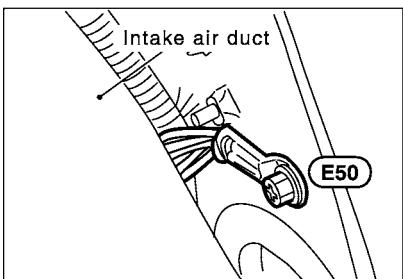
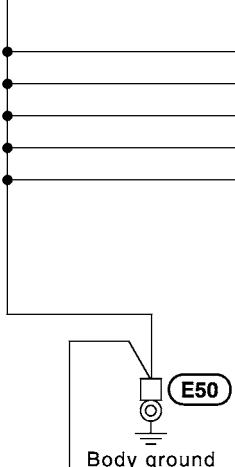
GROUND

ENGINE ROOM HARNESS/RHD MODELS

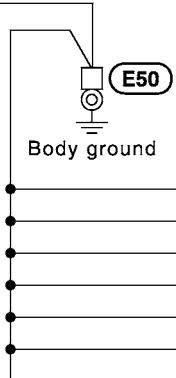
SMA for models with roof mounted driving lamp



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



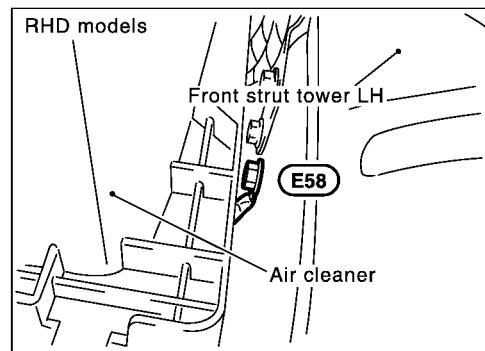
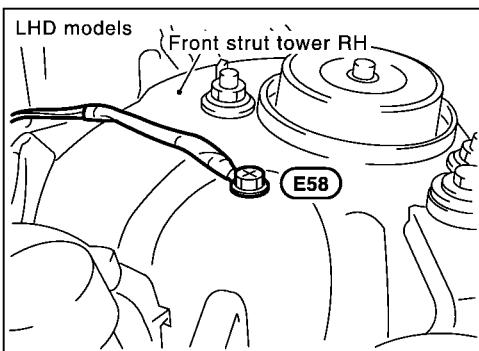
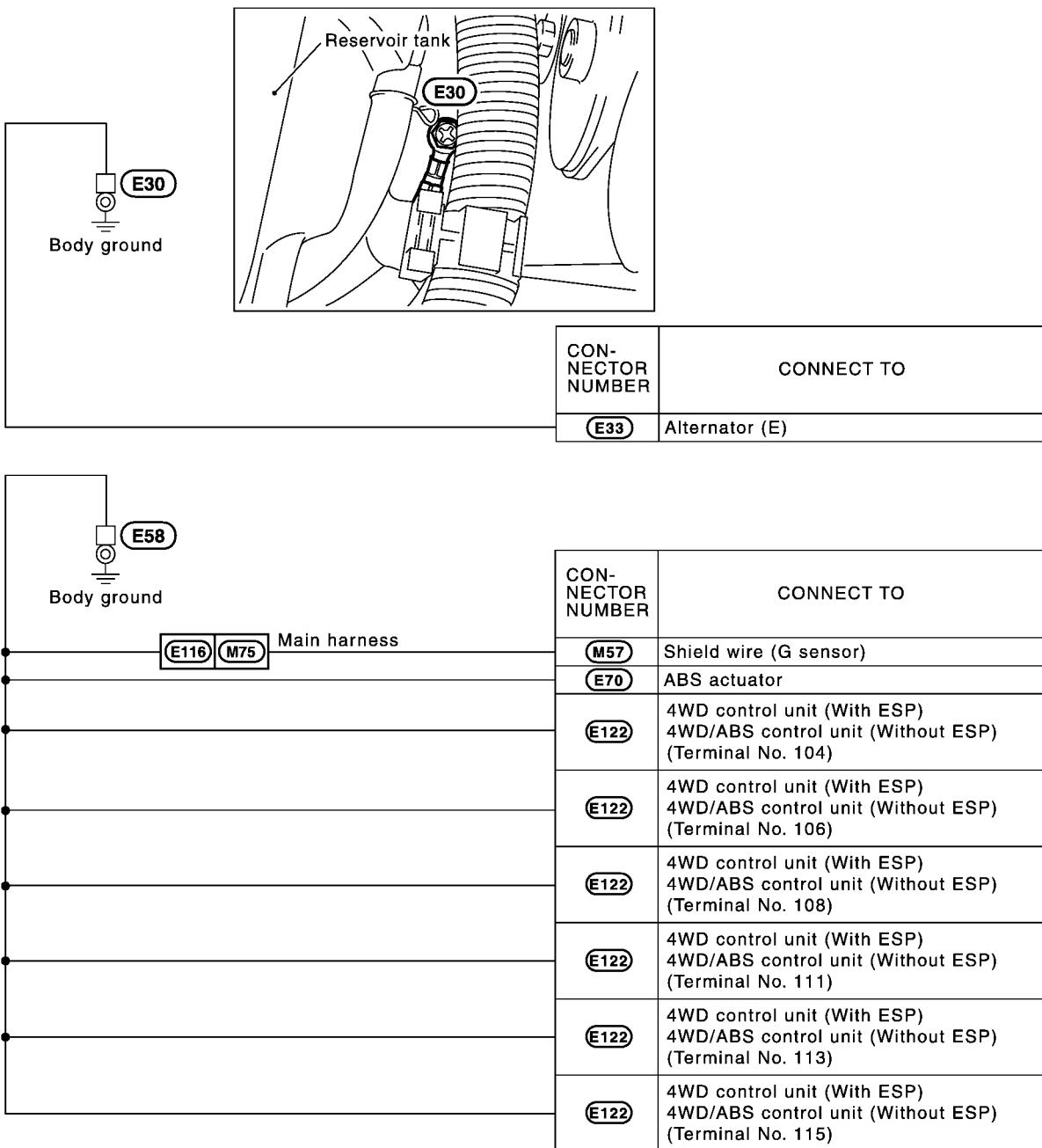
CONNECTOR NUMBER	CONNECT TO
E19	Brake fluid level switch
E20	Side turn signal lamp RH
E25	Front turn signal lamp RH
E47	Front turn signal lamp LH
E48	Side turn signal lamp LH



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

GROUND

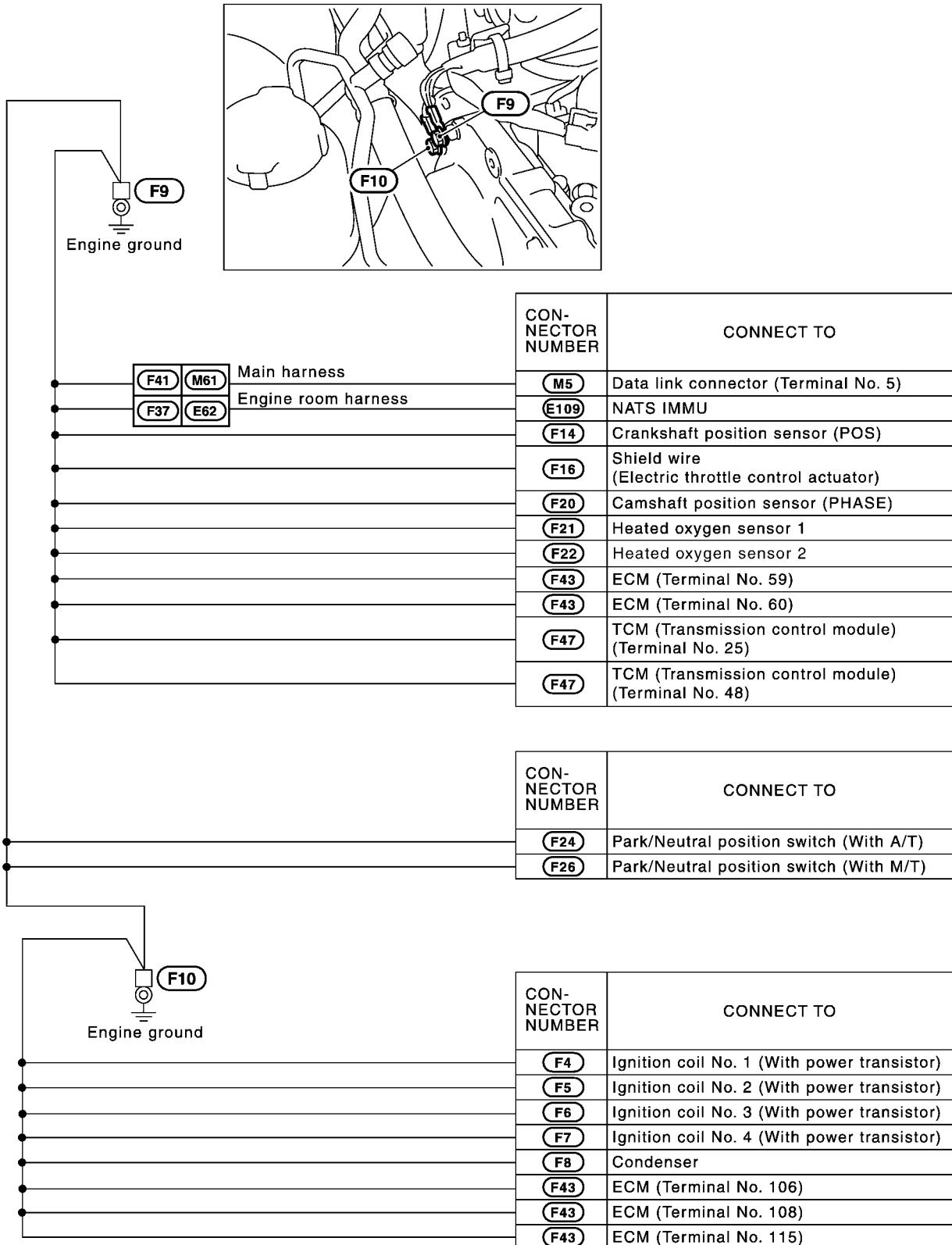
ENGINE ROOM HARNESS



CKWA0049E

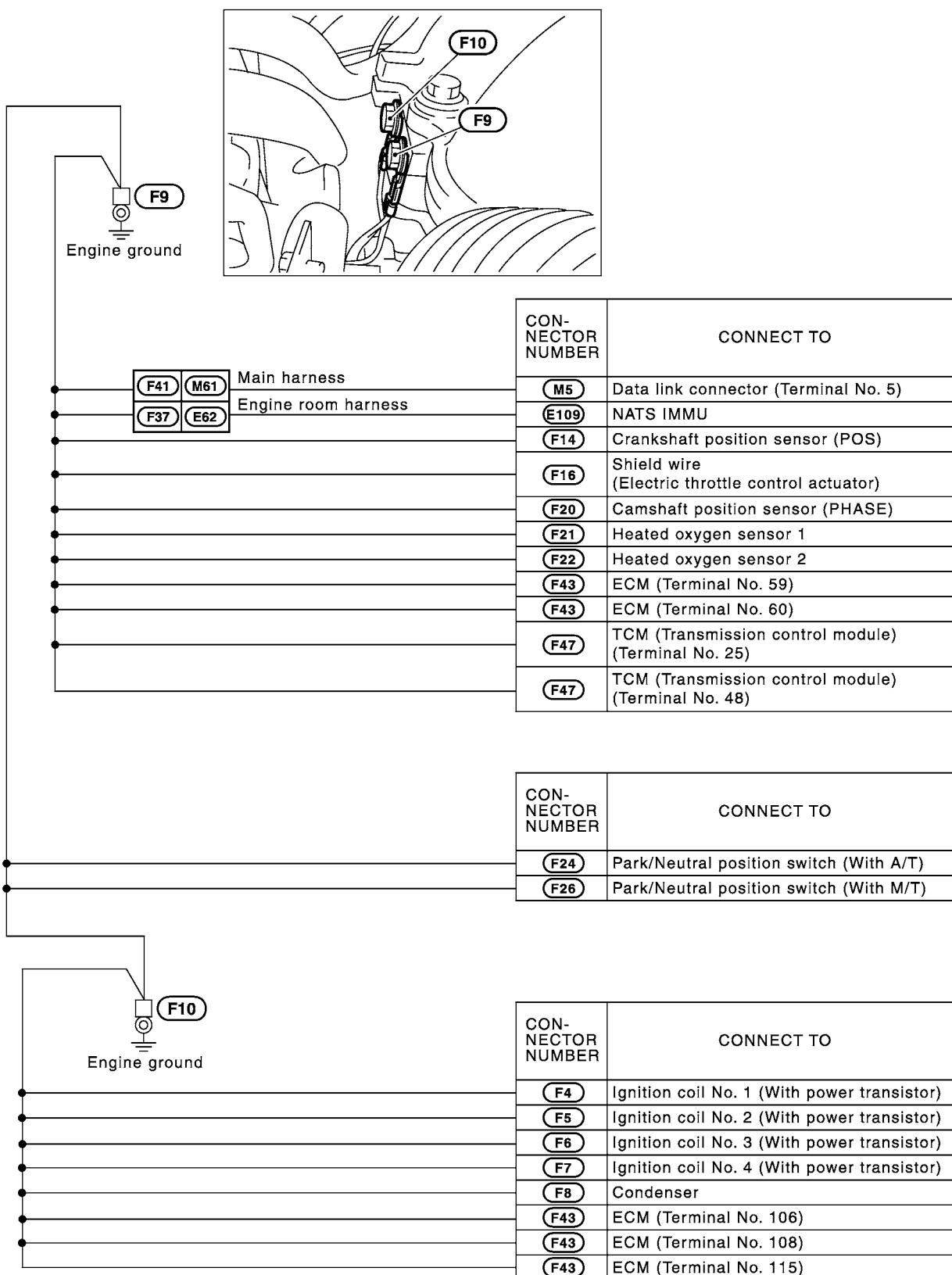
GROUND

ENGINE CONTROL HARNESS/QR25 ENGINE MODELS



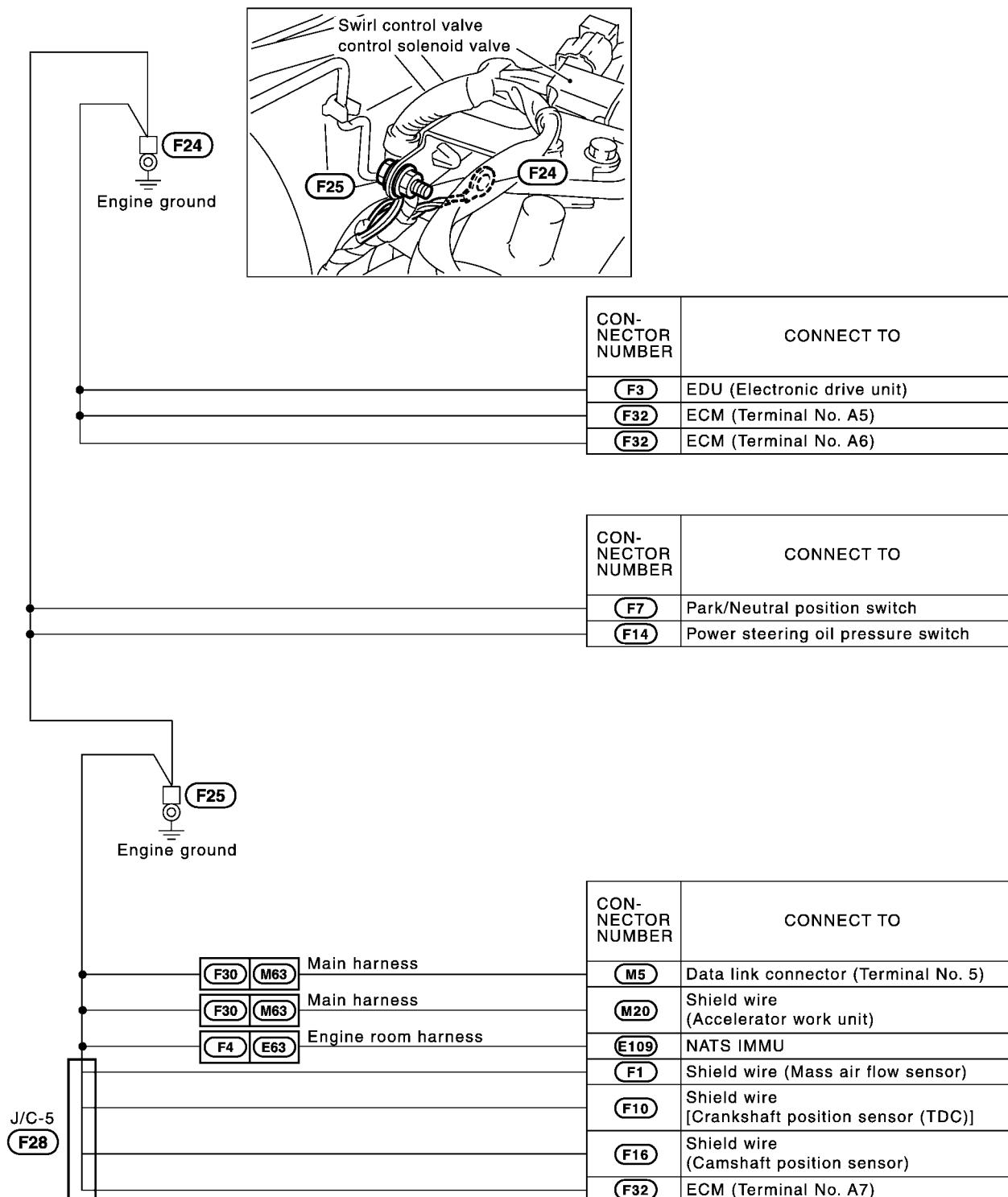
GROUND

ENGINE CONTROL HARNESS/QR20 ENGINE MODELS



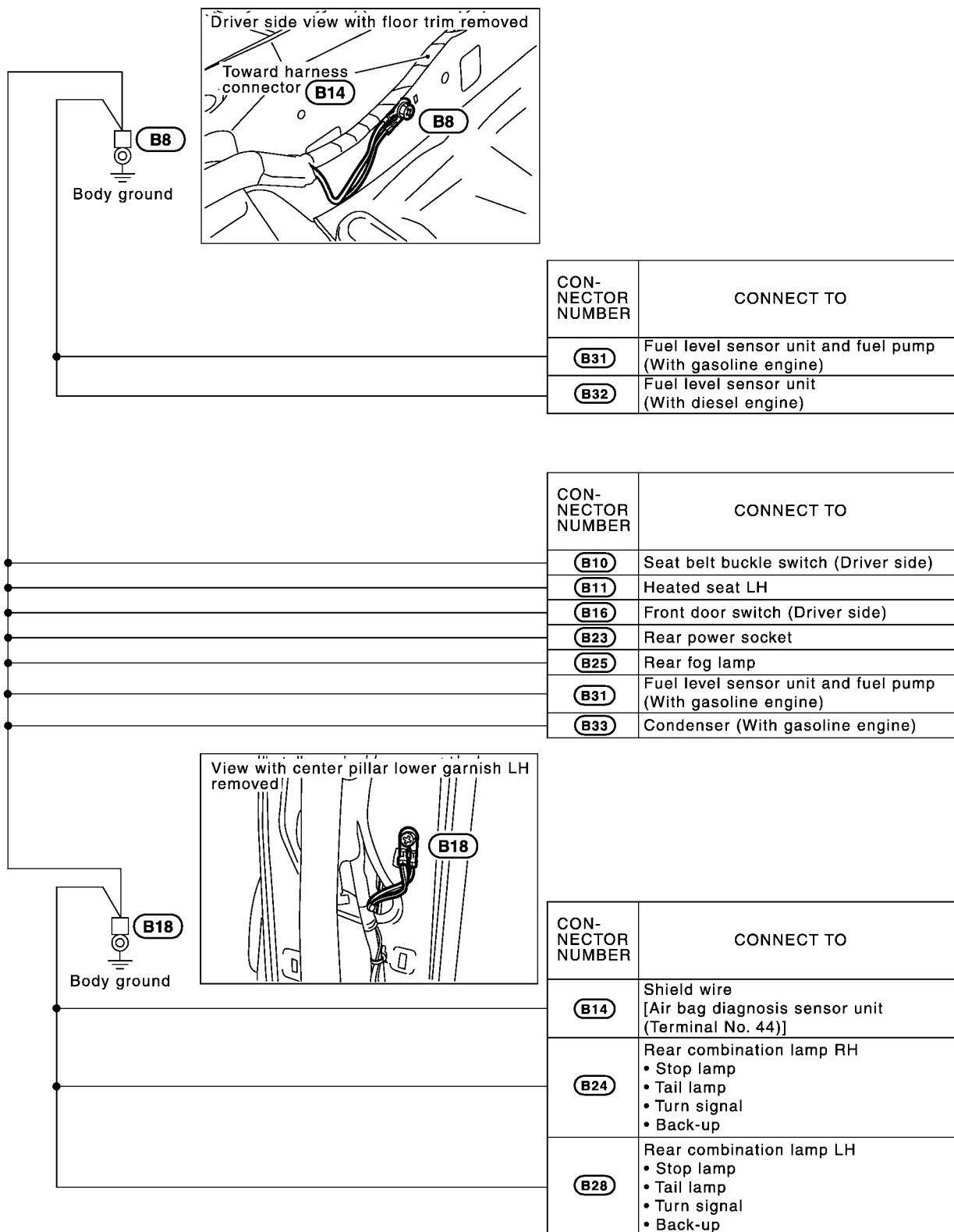
GROUND

ENGINE CONTROL HARNESS/DIESEL ENGINE MODELS



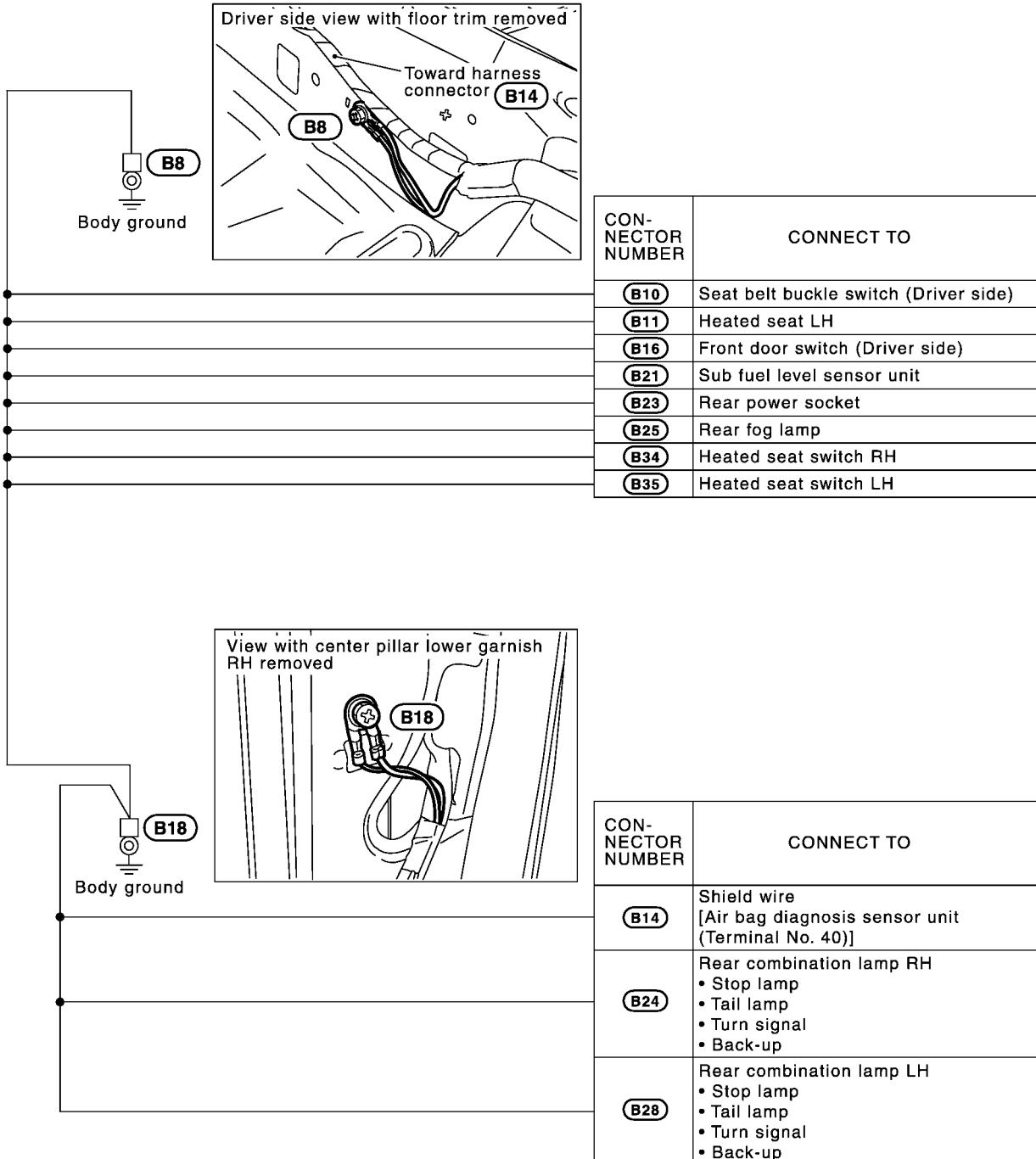
GROUND

BODY HARNESS/LHD MODELS



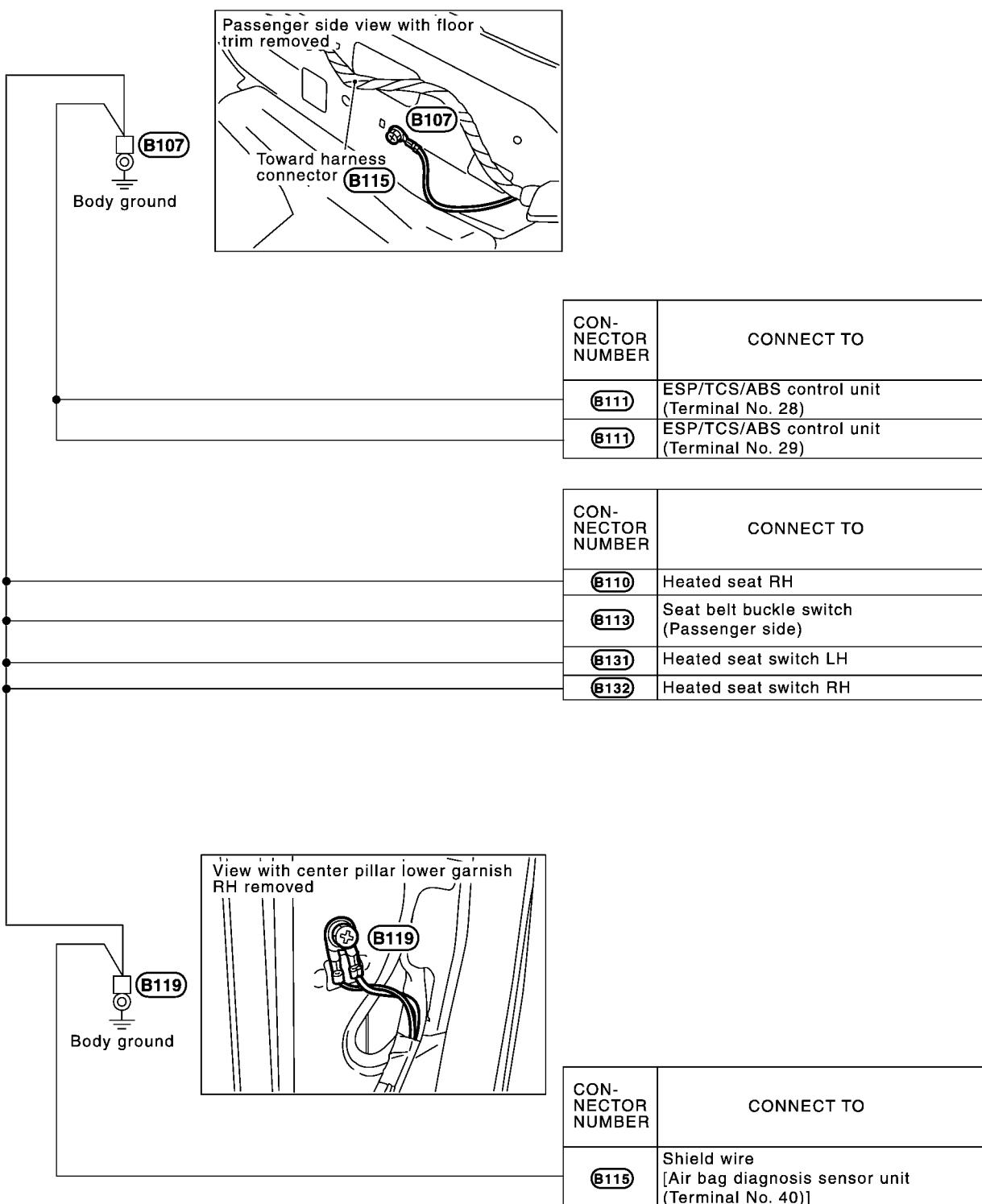
GROUND

BODY HARNESS/RHD MODELS



GROUND

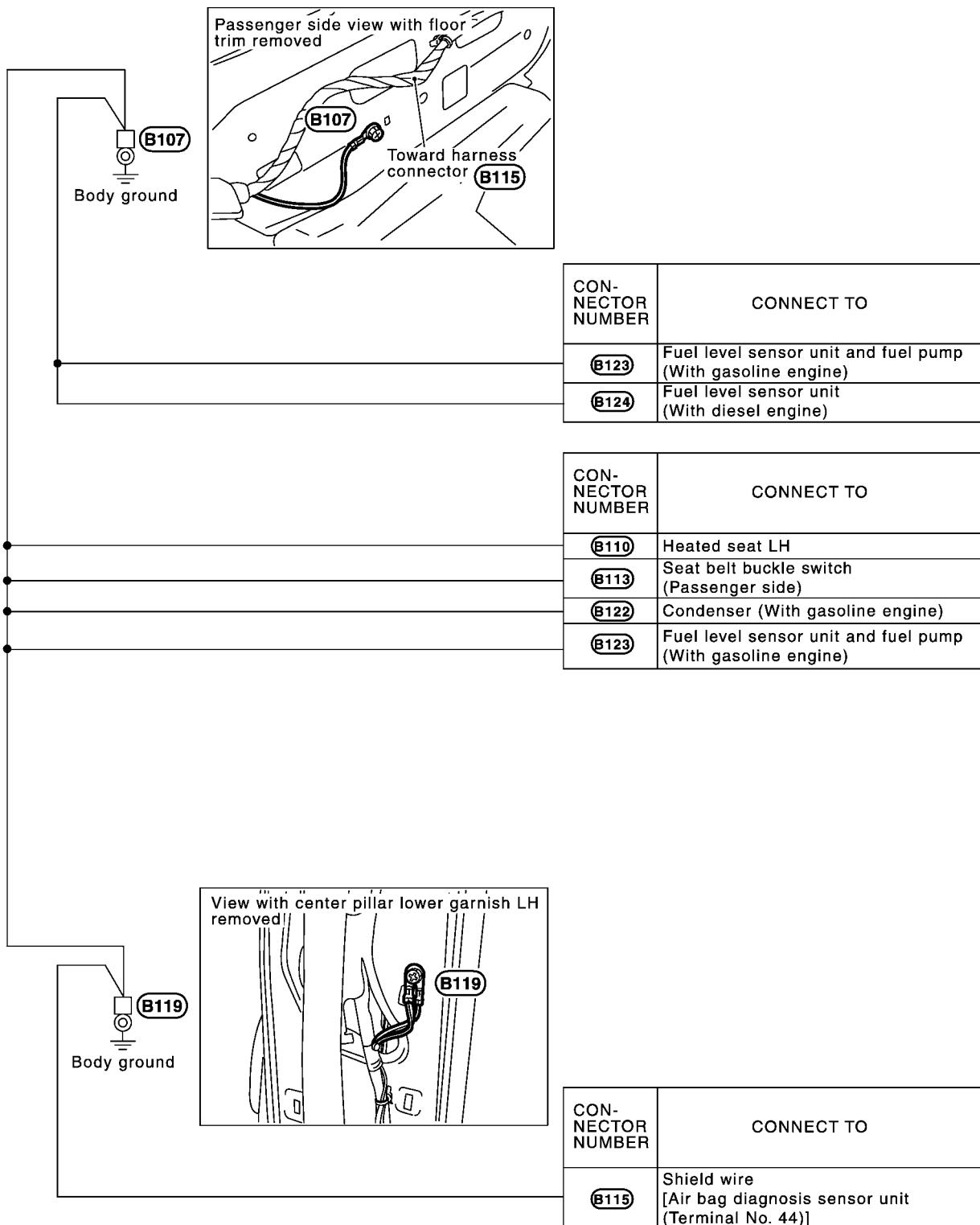
BODY NO.2 HARNESS/LHD MODELS



CKIA0269E

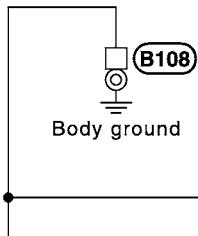
GROUND

BODY NO.2 HARNESS/RHD MODELS

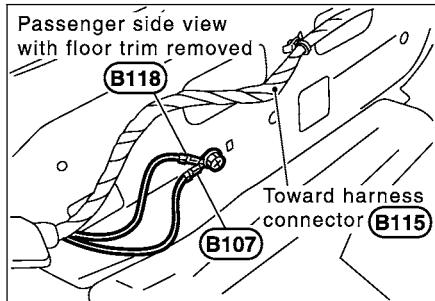


GROUND

BODY NO.2 HARNESS



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



CKWA0056E

A
B
C
D
E
F
G
H
I
J

PG

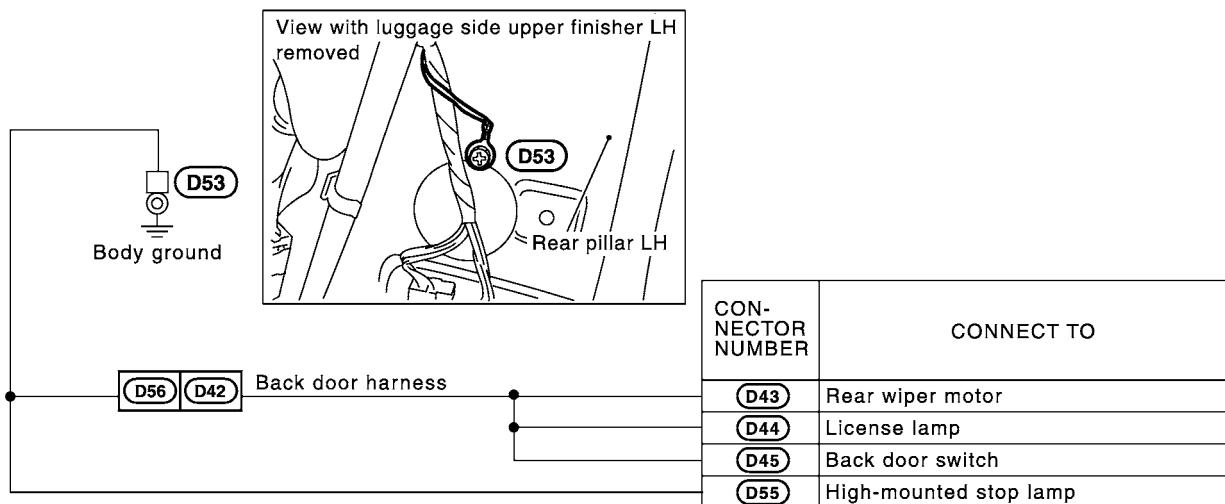
L

M

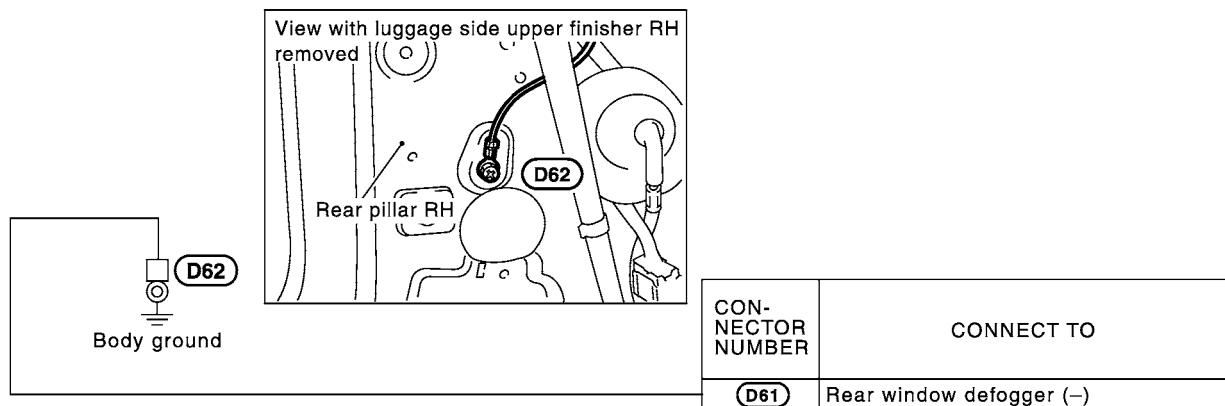
GROUND

BACK DOOR SUB HARNESS/REAR WINDOW DEFOGGER HARNESS

BACK DOOR SUB-HARNESS



REAR WINDOW DEFOGGER HARNESS



HARNESS

HARNESS

PFP:00011

Harness Layout

EKS0032I

HOW TO READ HARNESS LAYOUTS

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

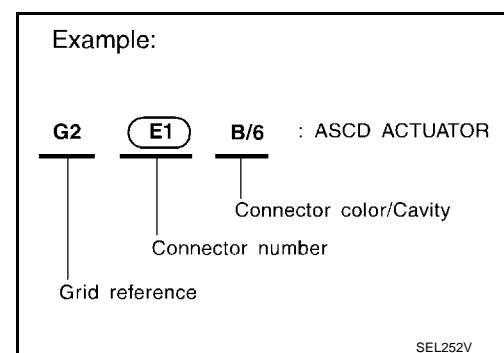
- Main Harness
- Engine Room Harness (Engine Compartment)
- Engine Control Harness
- Body Harness
- Body No.2 Harness
- Room Lamp Harness
- Door Harness

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.



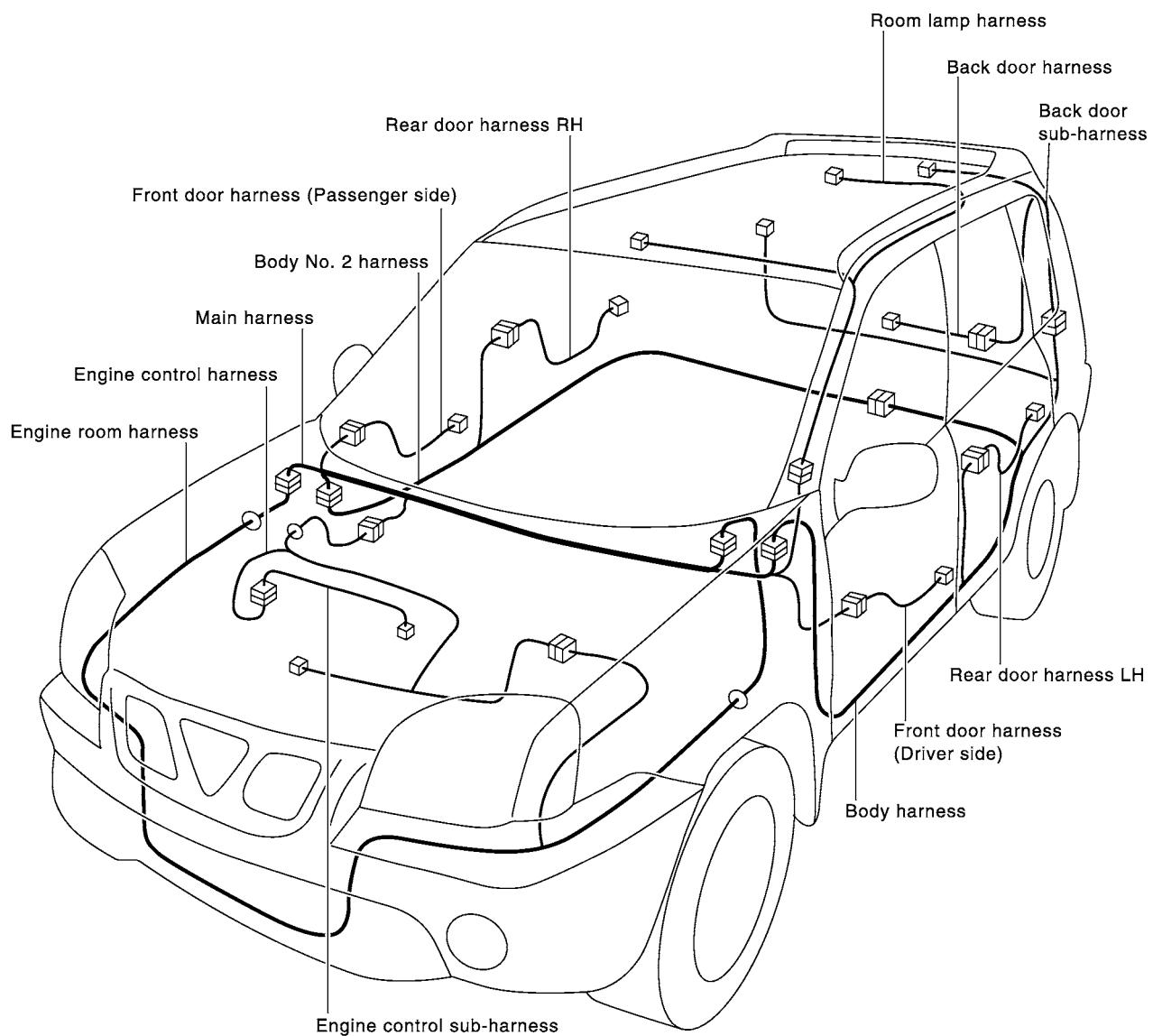
SEL252V

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

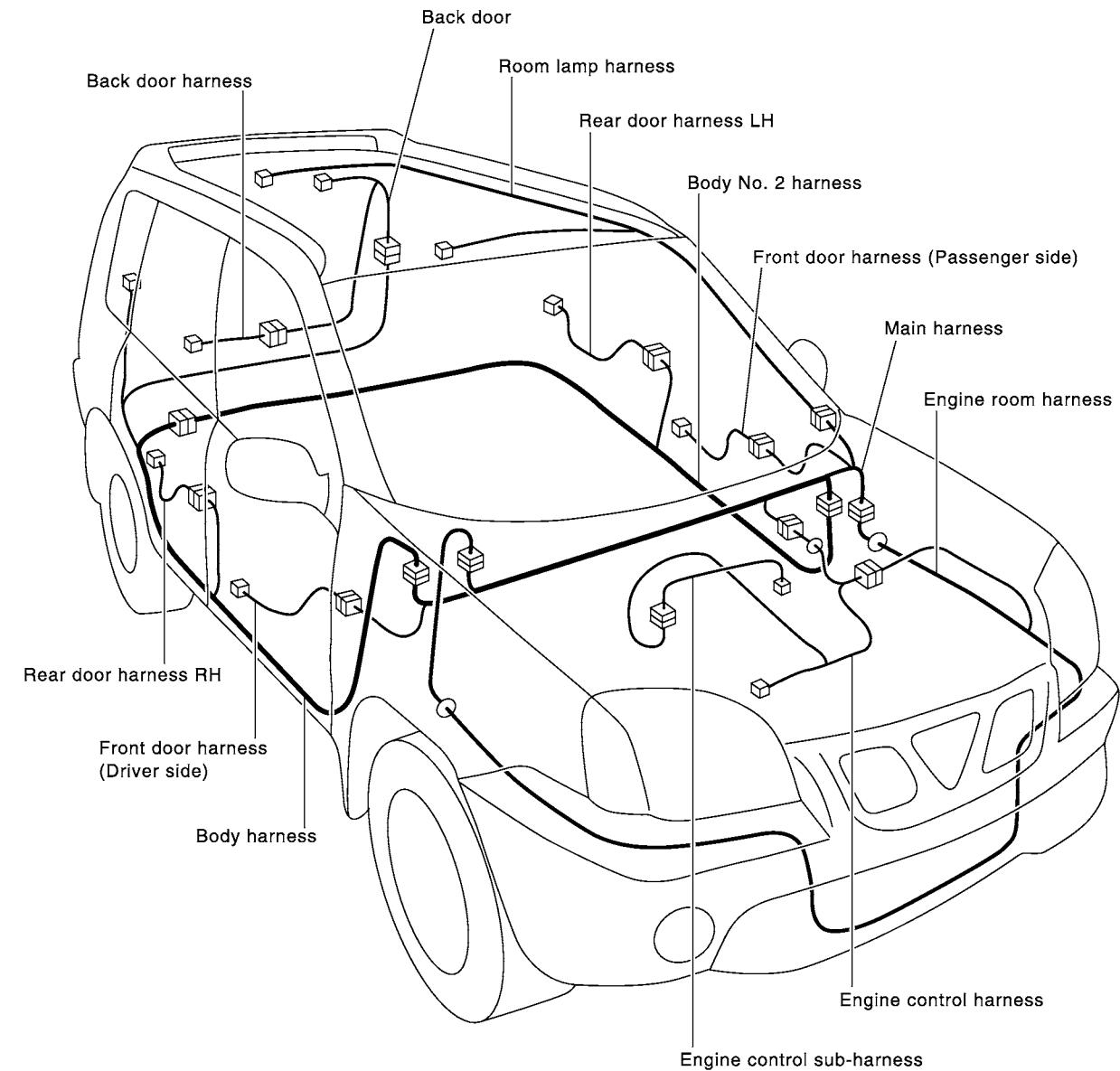
OUTLINE/LHD MODELS



CKWA0058E

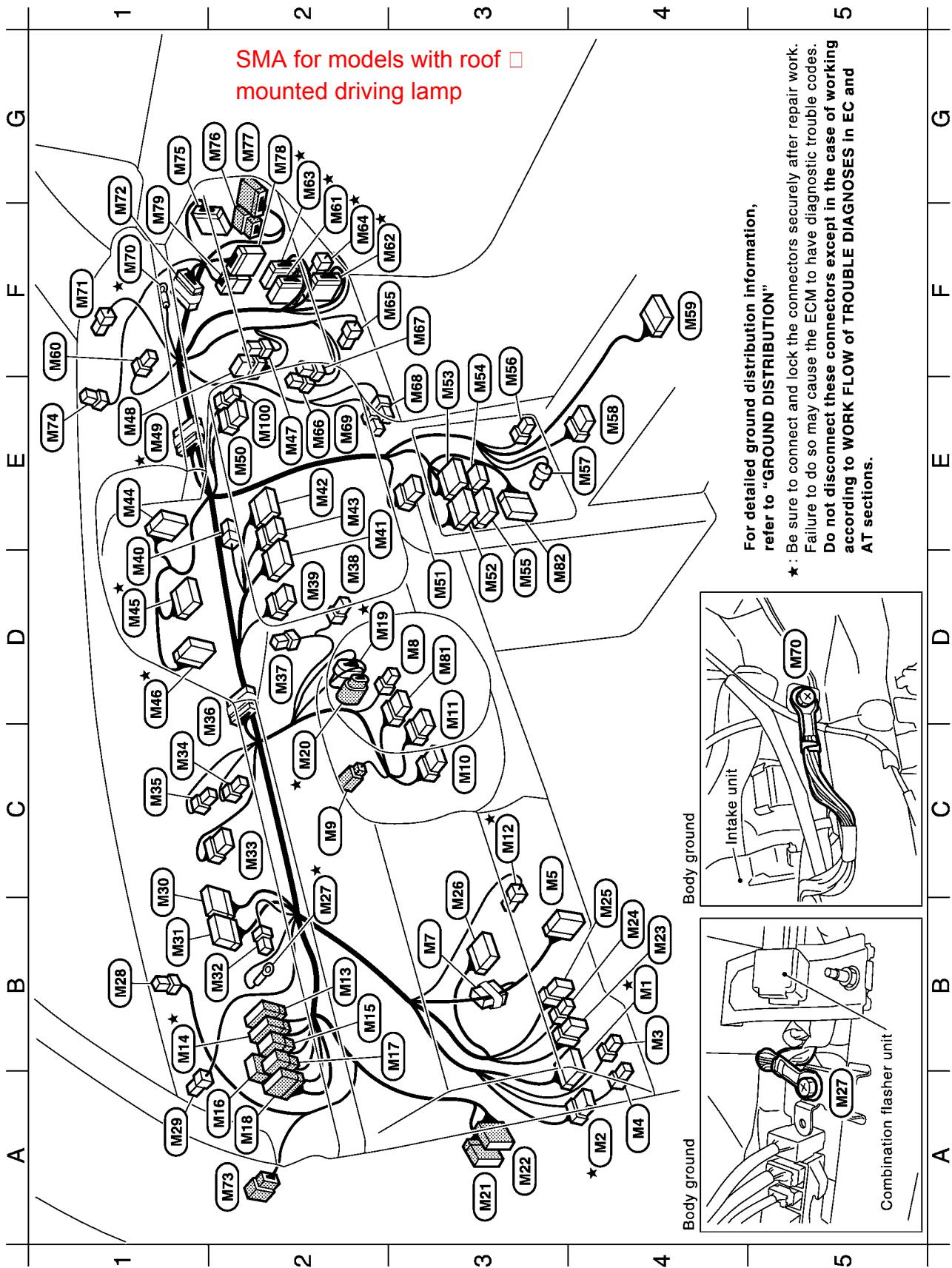
HARNESS

OUTLINE/RHD MODELS



HARNESS

MAIN HARNESS/LHD MODELS



CKWA0157E

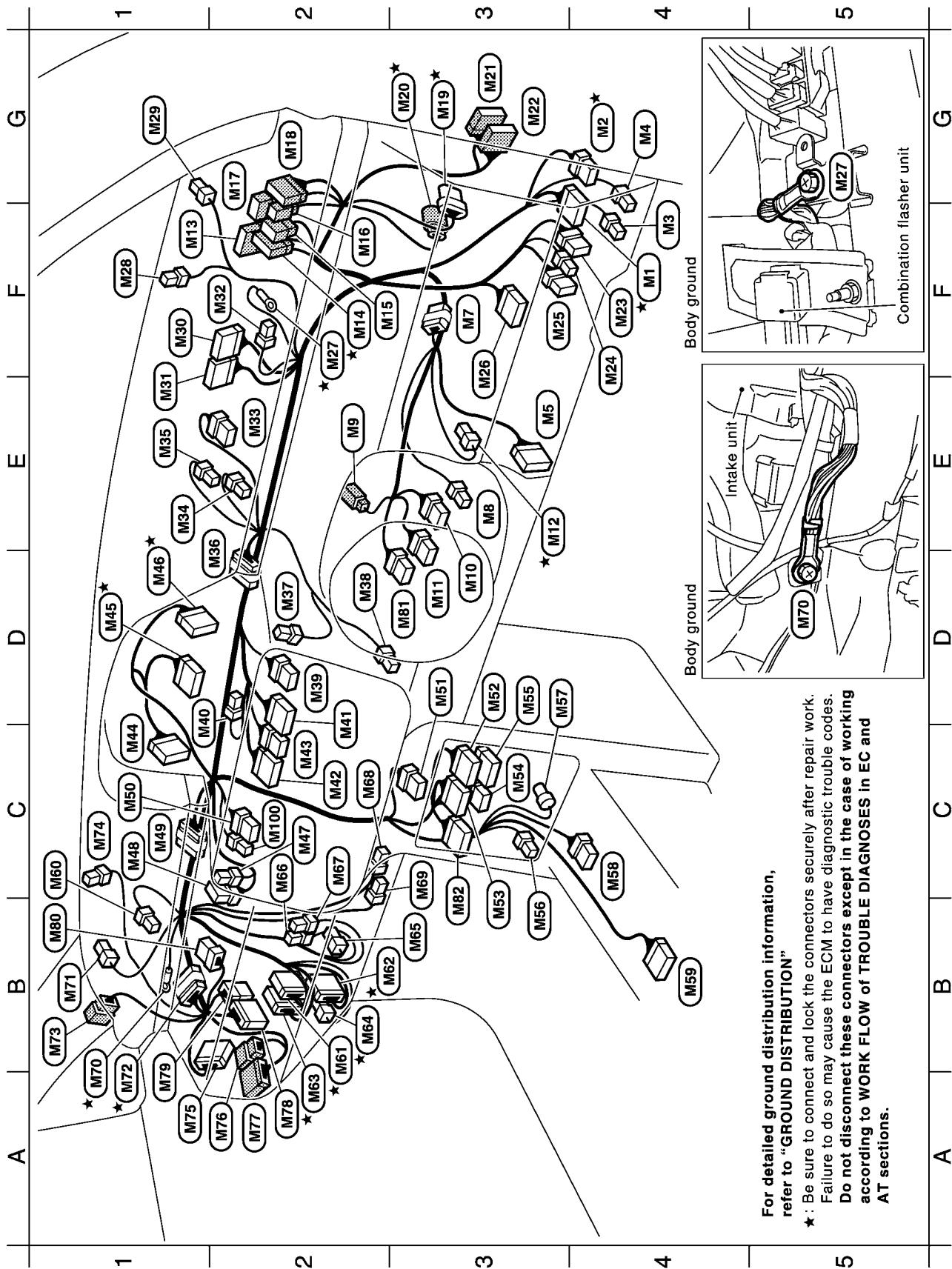
HARNESS

B4	M1	W/16	Fuse block (J/B)	E1	BR/24	Combination meter
	M2	W/10	Fuse block (J/B)	★	M45	Combination meter
A4	M3	L/4	Power window relay	★	M46	Combination meter
B4	M4	W/2	Circuit breaker (PTC)	D1	M47	Intake door motor (With auto A/C)
A4	M5	W/16	Date link connector	E2	M48	Intake door motor (With manual A/C)
C3	M6			E1	M49	Joint connector-2
B3	M7	W/6	Option connector for theft warning system	E1	M50	Rear window defroger switch
D3	M8	L/4	Cigarette lighter relay	D3	M51	Hazard switch
C2	M9	BR/2	Key switch	D3	M52	A/C auto amp. (With auto A/C)
C3	M10	Y/6	Combination switch (Spiral cable)	D3	M53	A/C auto amp. (With auto A/C)
D3	M11	GY/8	Combination switch (Spiral cable)	E3	M54	A/C auto amp. (With manual A/C)
C3	M12	B/2	Stop lamp switch	E3	M55	Heater control panel (With manual A/C)
B2	M13	W/10	To E105	D3	M56	W/12
B1	M14	BR/16	To E106	F3	M57	L/4
B2	M15	GY/6	To E107	E4	M58	GY/4
A2	M16	W/6	To B3	E4	M59	W/8
B3	M17	W/8	To B1	F4	M60	Y/20
A2	M18	BR/20	To B2	F1	M61	Front passenger air bag module
D2	M19	GY/6	Accelerator pedal position sensor (With gasoline engine)	F2	M62	To F41 (With gasoline engine)
C2	M20	GY/8	Accelerator work unit (With diesel engine)	F2	M63	To F42 (With gasoline engine)
A3	M21	W/16	To D1	G2	M64	To F30 (With diesel engine)
A3	M22	BR/12	To D2	F2	M65	To F29 (With diesel engine)
B4	M23	GY/8	Headlamp washer switch	F2	M66	Blower motor
B4	M24	W/4	Headlamp aiming switch	E2	M67	Fan resistor (With manual A/C)
B4	M25	GY/6	ESP off switch (With ESP)	F3	M68	Fan control amp. (With auto A/C)
C3	M26	W/10	Door mirror remote control switch	E3	M69	Intake sensor (Gasoline engine with auto A/C)
B2	M27	–	Body ground	E2	M70	Intake sensor (Diesel engine with auto A/C)
B1	M28	BR/2	Security indicator lamp	F1	M71	–
A1	M29	BR/2	Tweeter LH	F1	M72	Body ground
C1	M30	GY/16	Time control unit	F1	M73	BR/2
B1	M31	GY/20	Time control unit	A2	M74	Joint connector-3
B2	M32	B/3	Combination flasher unit	E1	M75	L/20
C2	M33	BR/8	Multi-remote control unit	G1	M76	To R1
C1	M34	W/2	In-vehicle sensor (With auto A/C)	G2	M77	To D12
C1	M35	B/2	Front power socket	G2	M78	To D11
D1	M36	OR/20	Joint connector-1	G2	M79	To B105
D2	M37	W/3	Mode door motor (With auto A/C)	F1	M80	To B106
D2	M38	W/3	Air mix door motor (With auto A/C)	D3	M81	Steering wheel angle sensor (With ESP)
D2	M39	GY/6	4WD mode switch	D3	M82	CD autochanger
D1	M40	W/2	Antenna amp.	E2	M100	W/4
E2	M41	W/12	Audio unit			CKWA0158E
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



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.

CKWA0159E

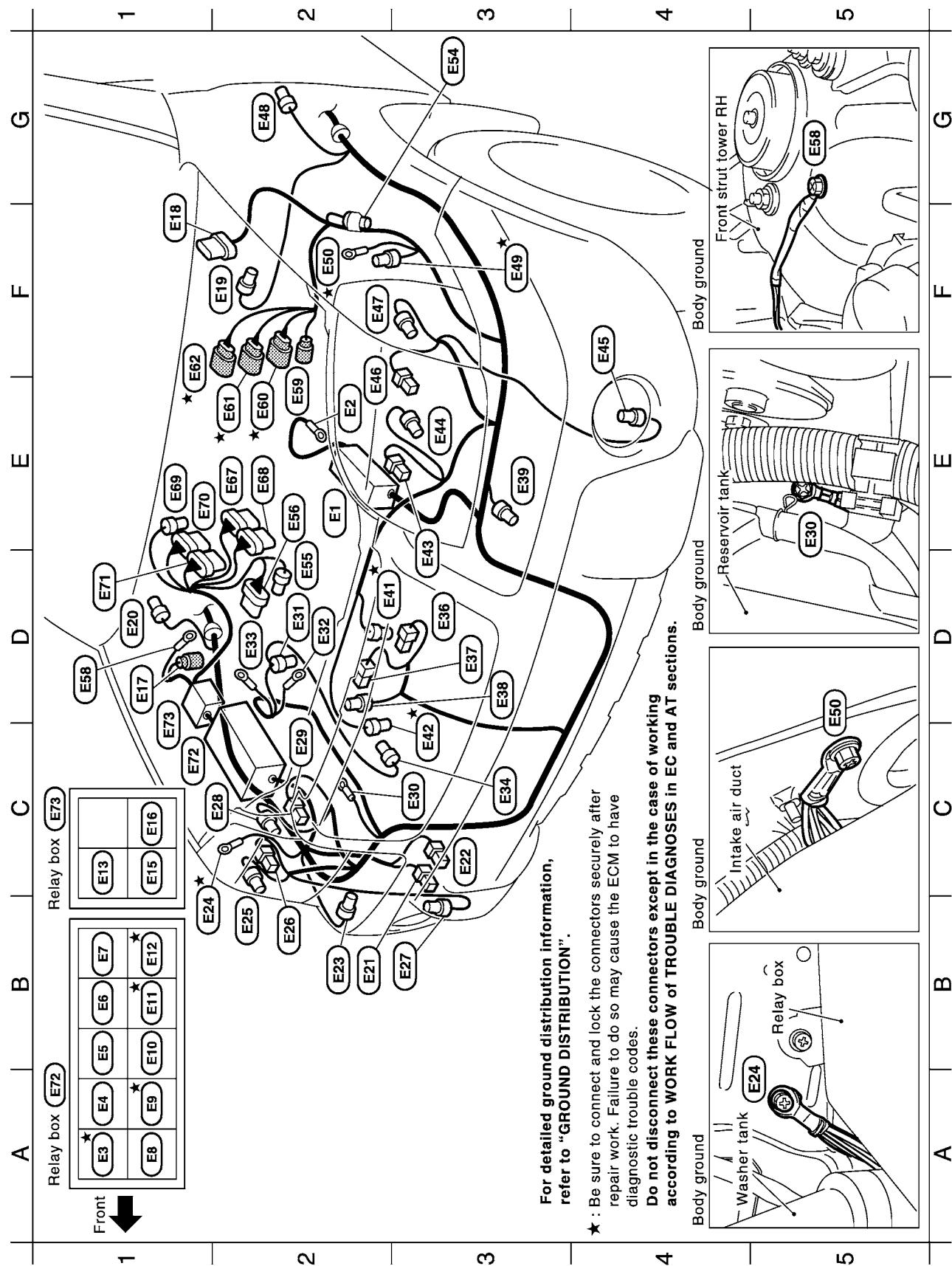
HARNESS

HARNESS

ENGINE ROOM HARNESS/LHD MODELS

Gasoline Engine Models

SMA for models with roof mounted driving lamp

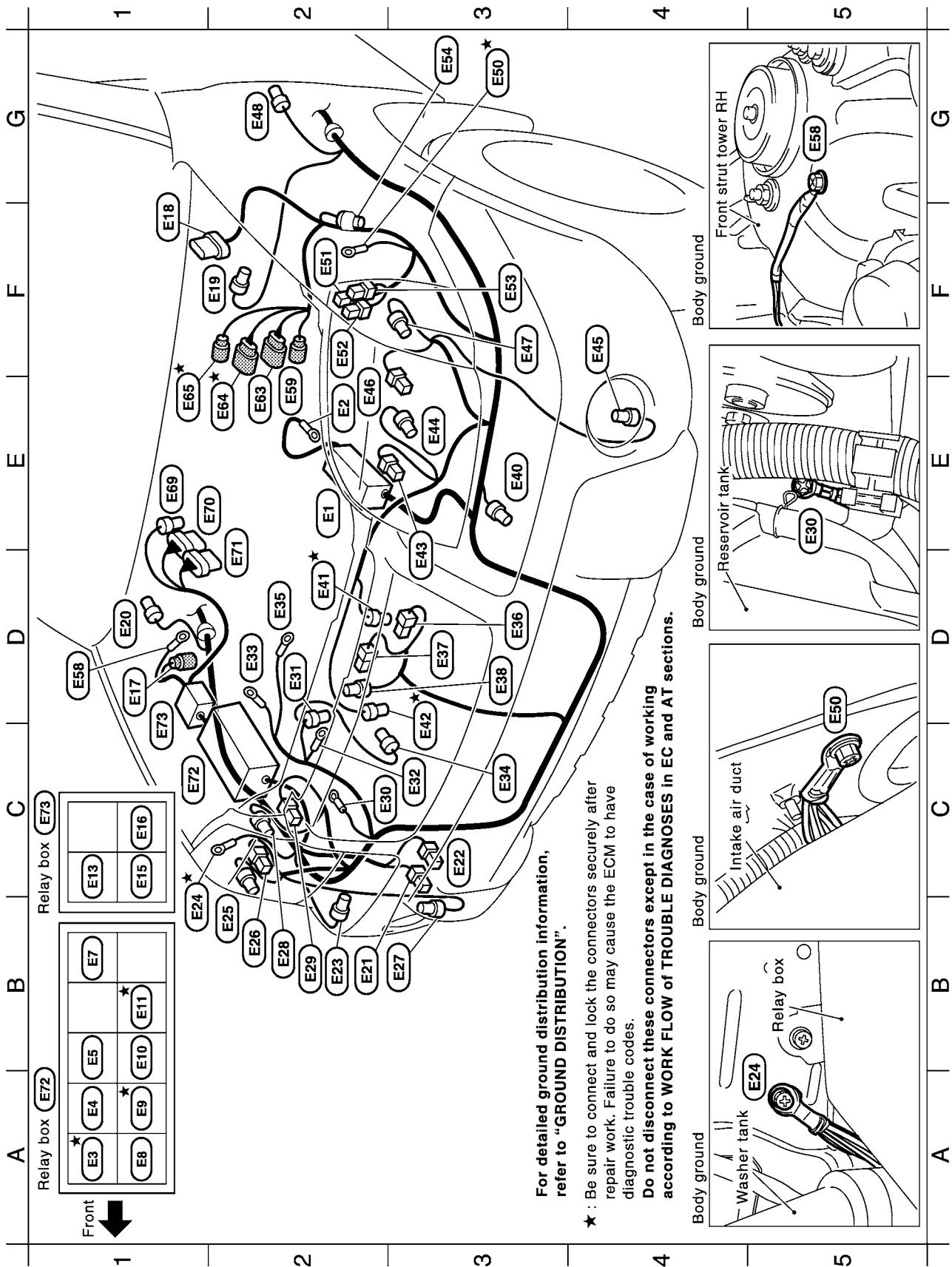


HARNESS

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

HARNESS

Diesel Engine Models



HARNESS

E1	-	: Fuse and Fusible link box
E2	-	: Battery (+)
E2	★ E3	BR/6 : Cooling fan relay-1
A1	E4	W/3 : Horn relay
A1	E5	L/4 : Air conditioner relay (With auto A/C)
B1	E6	L/4 : Front fog lamp relay
B1	E7	BR/6 : Headlamp washer timer
A1	★ E8	BR/6 : Cooling fan relay-2
A1	★ E9	BR/6 : 4WD actuator relay
B1	E10	BR/6 : Cooling fan relay-3
C1	E11	L/4 : Daytime light relay LH (With daytime light system)
C1	E13	L/4 : Rear fog lamp relay
C1	E15	L/4 : Daytime light relay RH (With daytime light system)
C1	E16	L/4 : Front wheel sensor RH
D1	E17	GY/2 : Front wiper motor
F1	E18	GY/6 : Brake fluid level switch
F2	E19	GY/2 : Side turn signal lamp RH
D1	E20	BR/2 : Front washer motor
B2	E21	W/2 : Rear washer motor
C3	E22	G/2 : Headlamp washer motor
B2	E23	GY/2 : Body ground
B1	★ E24	GY/2 : Front turn signal lamp RH
B2	E25	GY/2 : Headlamp RH
B2	E26	B/3 : Front fog lamp RH
B3	E27	GY/2 : Headlamp aiming motor RH
B2	E28	B/3 : Parking lamp RH
B2	E29	B/2 : Body ground
C2	E30	- : Alternator
D2	E31	GY/2 : Alternator
C3	E32	- : Alternator
D2	E33	- : Alternator
C3	E34	B/1 : Compressor (With auto A/C)
D3	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

A

B

C

D

E

F

G

H

I

J

K

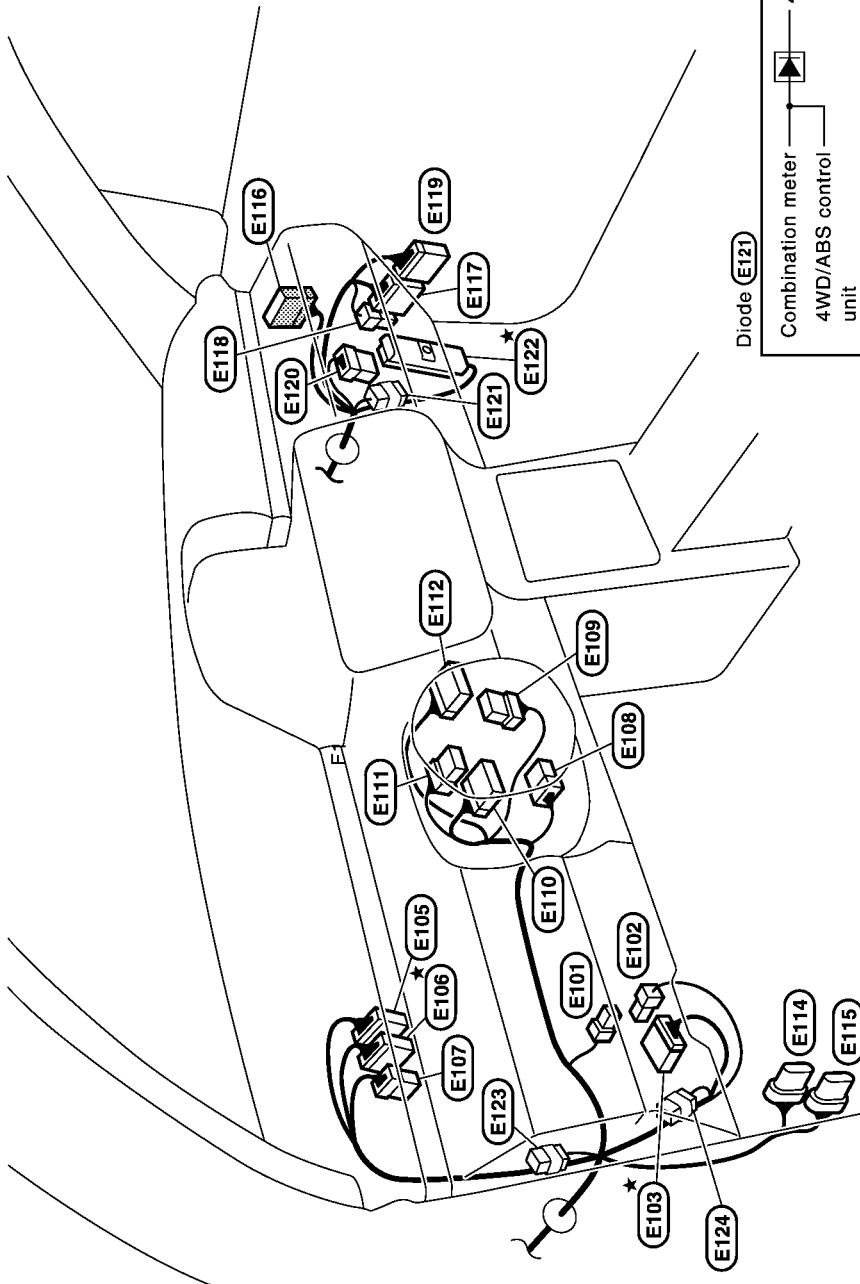
L

M

PG

HARNESS

Passenger Compartment



E101	: Fuse block (J/B)	E115	: Daytime light control unit
E102	: Fuse block (J/B)	E116	: To M75
E103	: Fuse block (J/B)	E117	: To B101 (With ESP)
E104	: To M13	E118	: To B102 (With ESP)
E105	: To M14	E119	: To B103 (With ESP)
E106	: To M15	E120	: To B104 (Without ESP)
E107		E121	: Diode
E108		E122	: SMJ
E109	: NATS IMMU	E123	: 4WD control unit (With ESP)
E110	: Combination switch (Lighting switch)	E124	: 4WD/ABS control unit (Without ESP)
E111	: Combination switch (Fog lamp switch)	E125	: Diode
E112	: Combination switch (Wiper and washer switch)	E126	: Diode
E113	: Daytime light control unit	E127	

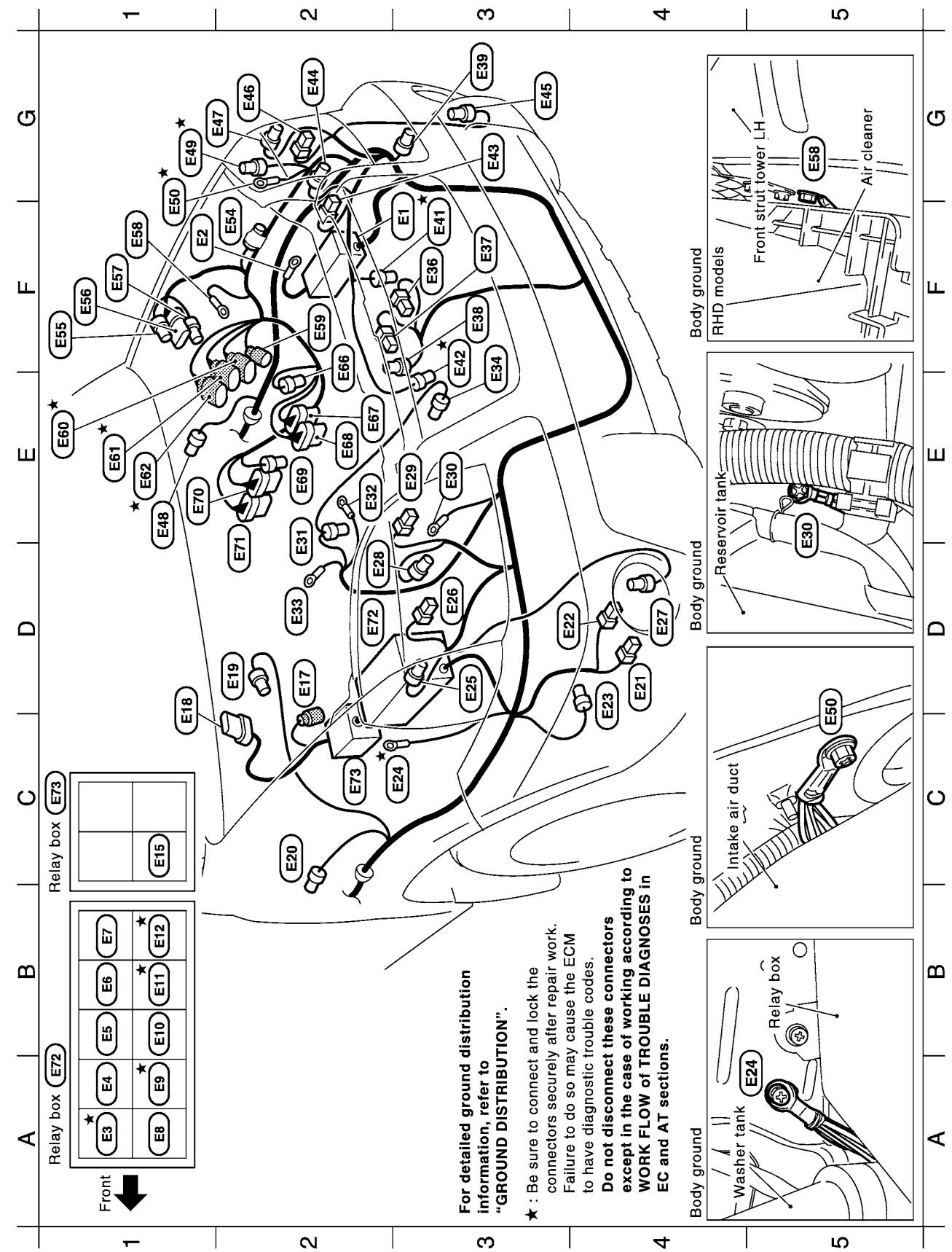
★ : Be sure to connect and lock the connectors securely after repair work.
 Failure to do so may cause the ECM to have diagnostic trouble codes.
 Do not disconnect these connectors **except in the case of working** according to **WORK FLOW of TROUBLE DIAGNOSES** in EC and AT sections.

Harness

ENGINE ROOM HARNESS/RHD MODELS

Gasoline Engine Models

SMA for models with roof mounted driving lamp



For detailed ground distribution information, refer to “GROUND DISTRIBUTION”.

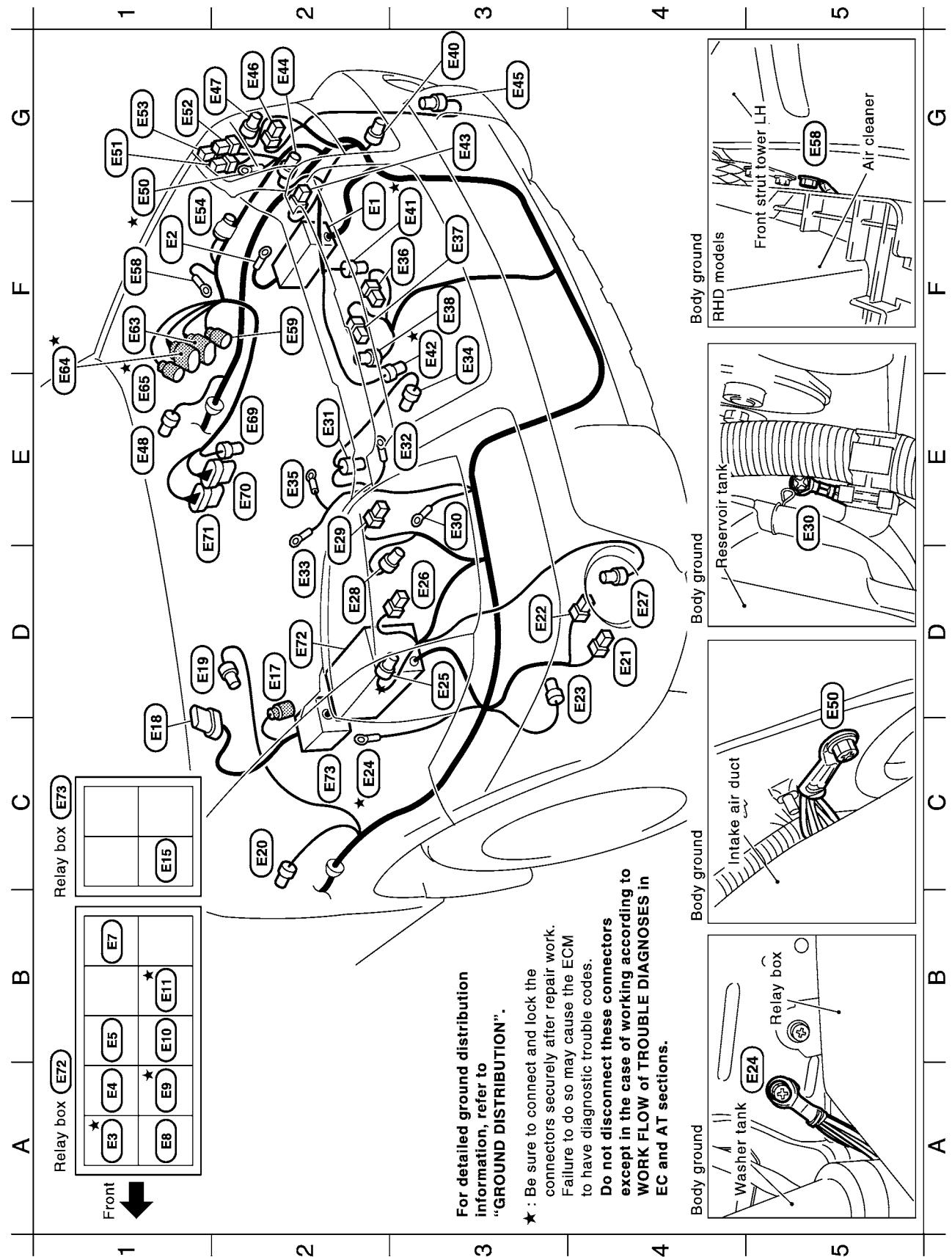
- ★ : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
- Do not disconnect these connectors except in the case of working account.
- WORK FLOW of TROUBLE DIAGNOSE**
- EC and AT sections.**

HARNESS

F3	—	: Fuse and Fusible link box
F1	—	: Battery (+)
F1	★ E2	: Cooling fan relay-1
A1	★ E3	: BR/6 : Cooling fan relay-1
A1	E4	: W/3 : Horn relay
B1	E5	: L/4 : Air conditioner relay (With auto A/C)
B1	E6	: L/4 : Park/Neutral position relay (With A/T)
B1	E7	: L/4 : Front fog lamp relay
A1	E8	: BR/6 : Headlamp washer timer
A1	★ E9	: BR/6 : Cooling fan relay-2
B1	E10	: B/5 : 4WD actuator relay
B1	★ E11	: BR/6 : Cooling fan relay-3
B1	★ E12	: L/4 : Throttle control motor relay
C1	E15	: L/4 : Rear fog lamp relay
D2	E17	: GY/2 : Front wheel sensor RH
D1	E18	: GY/6 : Front wiper motor
D2	E19	: GY/2 : Brake fluid level switch
C2	E20	: BR/2 : Side turn signal lamp RH
D4	E21	: W/2 : Front washer motor
D4	E22	: G/2 : Rear washer motor
D4	E23	: GY/2 : Headlamp washer motor
C3	★ E24	: — : Body ground
D3	E25	: GY/2 : Front turn signal lamp RH
D3	E26	: B/3 : Headlamp RH
D4	E27	: GY/2 : Front fog lamp RH
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	E35	: 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
G2	B/3	: Headlamp aiming motor LH
G3	GY/2	: Front fog lamp LH
G2	B/3	: Headlamp LH
G2	GY/2	: Front turn signal lamp LH
E1	BR/2	: Side turn signal lamp LH
G1	GY/2	: Dropping resistor (With A/T)
★ E49	GY/2	: Option connector for hood switch
★ E50	—	: Body ground
E54	GY/2	: ESP relay box (With ESP)
E55	B/2	: ESP relay box (With ESP)
F1	E56	: B/8 : ESP relay box (With ESP)
F1	E57	: E57 : ESP relay box (With ESP)
F1	E58	: — : Body ground
F2	E59	: BR/2 : Front wheel sensor LH
E1	★ E60	: GY/9 : To F36
E1	★ E61	: DGY/8 : To F38
E1	★ E62	: GY/8 : To F37
F2	E66	: B/2 : ESP actuator (With ESP)
E2	E67	: DGY/8 : ESP actuator (With ESP)
E2	E68	: SB/8 : ESP actuator (With ESP)
E2	E69	: GY/2 : ABS actuator (Without ESP)
E1	E70	: B/8 : ABS actuator (Without ESP)
D2	E71	: GY/8 : ABS actuator (Without ESP)
A1, D2	E72	: — : Relay box
C1, C2	E73	: — : Relay box

HARNESS

Diesel Engine Models

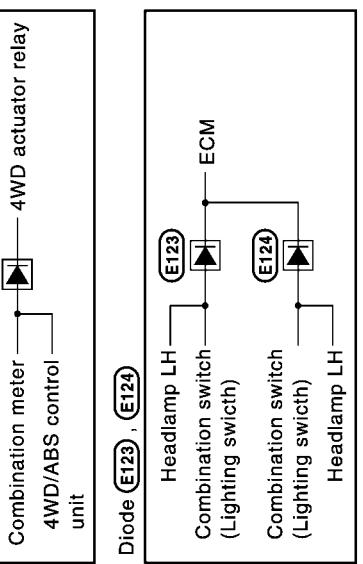
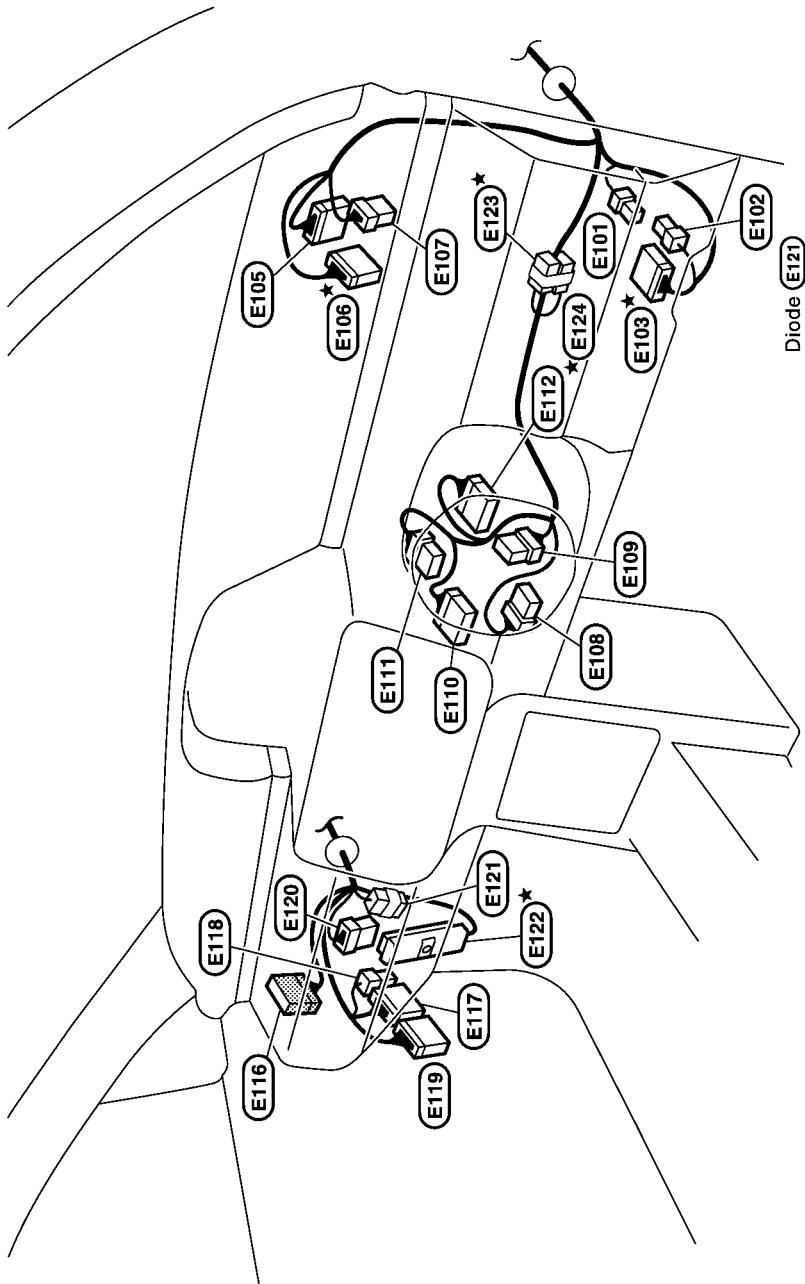


HARNESS

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

HARNESS

Passenger Compartment



E101	B/2	Fuse block (JB)
E102	W/4	Fuse block (JB)
E103	W/12	Fuse block (JB)
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	BR/20	To (M75)

★ : 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.

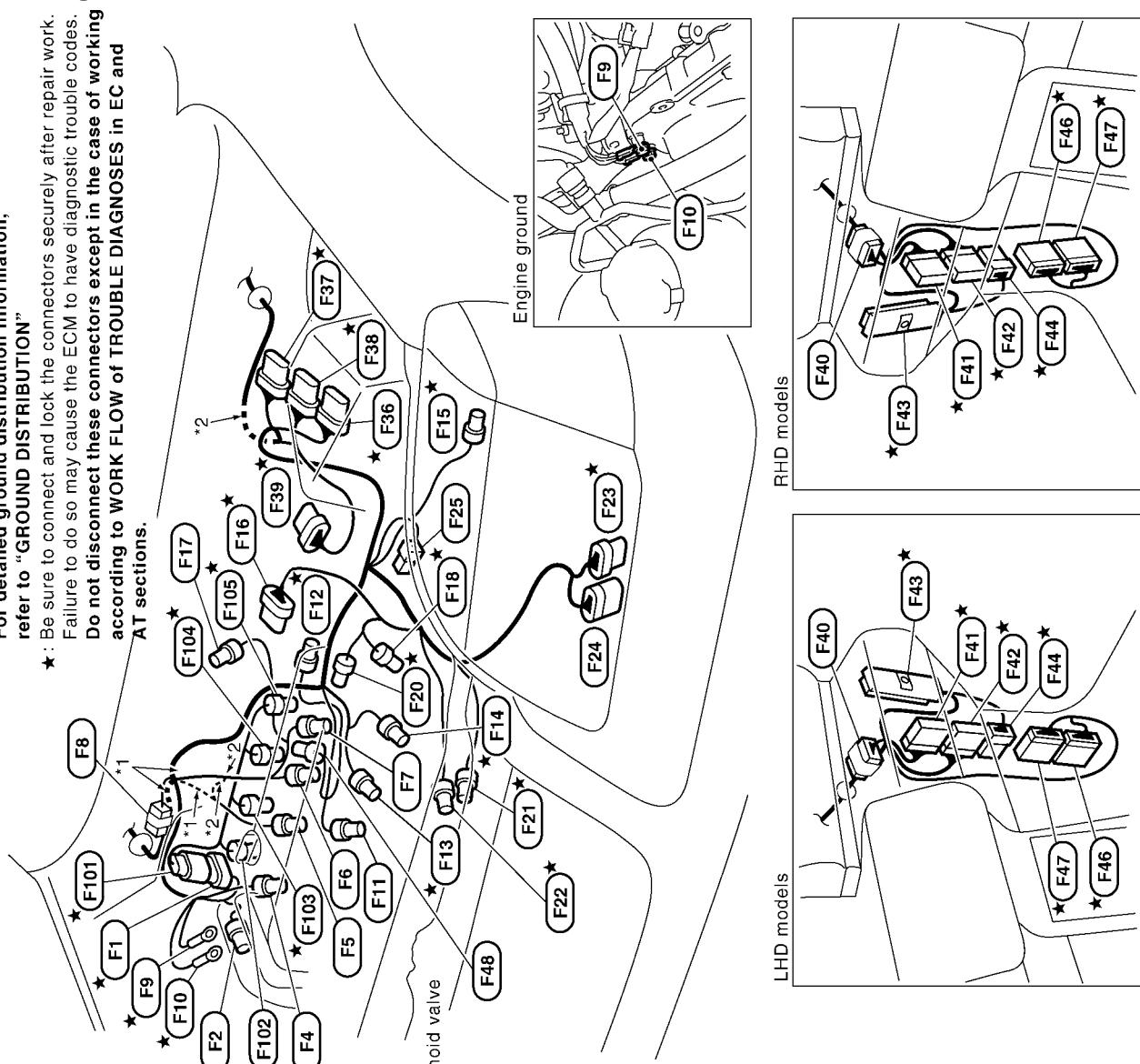
CKWA0073E

HARNESS

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.



★ F1	DGY/6	To <u>F101</u>
★ F2	G1/2	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	—
★ F9	GY/1	Engine ground
★ F10	GY/1	Engine ground
★ F11	G1/6	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	G1/6	Electronic throttle control actuator
★ F17	L/2	EVAP canister purge volume control solenoid valve
★ F18	GY/2	Engine coolant temperature sensor
★ F19	B/3	Camshaft position sensor (PHASE)
★ F20	G1/4	Heated oxygen sensor 1
★ F21	L/4	Heated oxygen sensor 2
★ F22	B/8	A/T solenoid valve
★ F23	F24	Park/Neutral position switch
★ F24	B/10	Starter motor
★ F25	GY/9	To <u>E60</u>
★ F26	GY/8	To <u>E62</u>
★ F27	DGY/8	To <u>E61</u>
★ F28	GY/8	Joint connector-4
★ F29	GY/5	Mass air flow sensor
★ F30	GY/6	Joint connector-4
★ F31	BR/24	To <u>M61</u>
★ F32	W/16	To <u>M62</u>
★ F33	SMU	ECM
★ F34	BR/6	ECM relay
★ F35	GY/2	TCM (Transmission control module)
★ F36	GY/2	TCM (Transmission control module)
★ F37	GY/2	VIAS control solenoid valve
★ F38	GY/2	—
★ F39	GY/2	—
★ F40	GY/2	—
★ F41	GY/2	—
★ F42	GY/2	—
★ F43	GY/2	—
★ F44	GY/2	—
★ F45	GY/2	—
★ F46	GY/2	—
★ F47	GY/2	—
★ F48	GY/2	—

Engine control sub-harness

★ F101	B/6	To <u>F1</u>
★ F102	GY/2	Injector No. 1
★ F103	GY/2	Injector No. 2
★ F104	GY/2	Injector No. 3
★ F105	GY/2	Injector No. 4

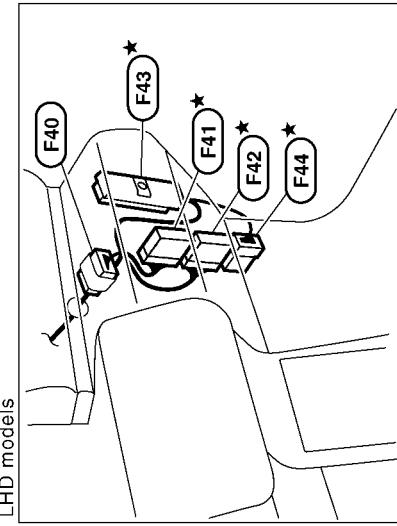
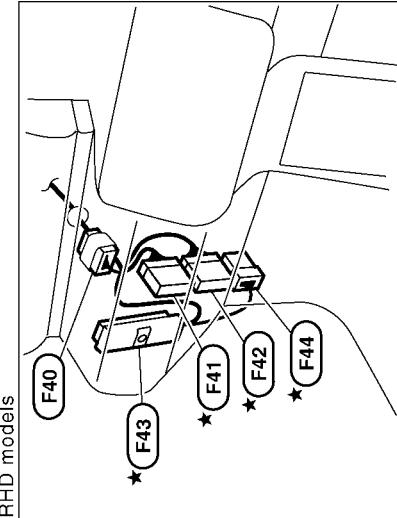
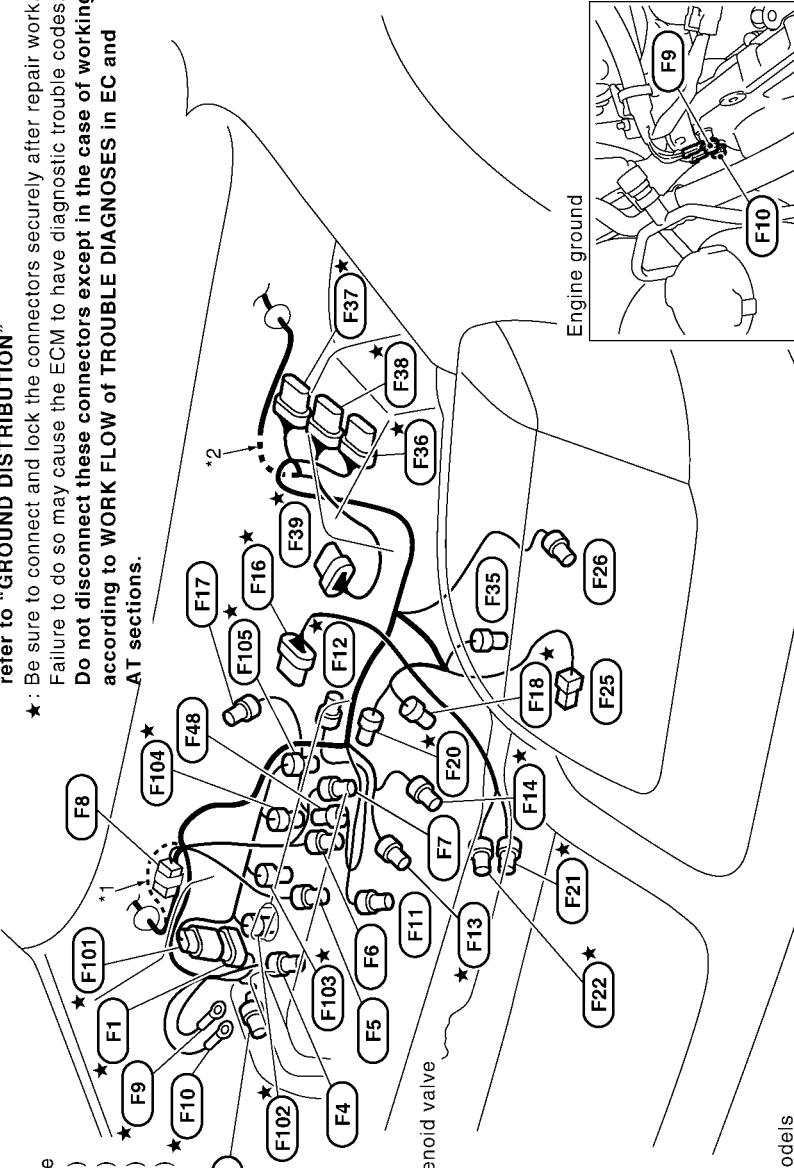
*1 : LHD models
*2 : RHD models

HARNESS

QR25 Engine Models with M/T

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

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	GI/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	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	Crankshaft 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
F48	BR/2	VIAS control solenoid valve

Engine control sub-harness

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

HARNESS

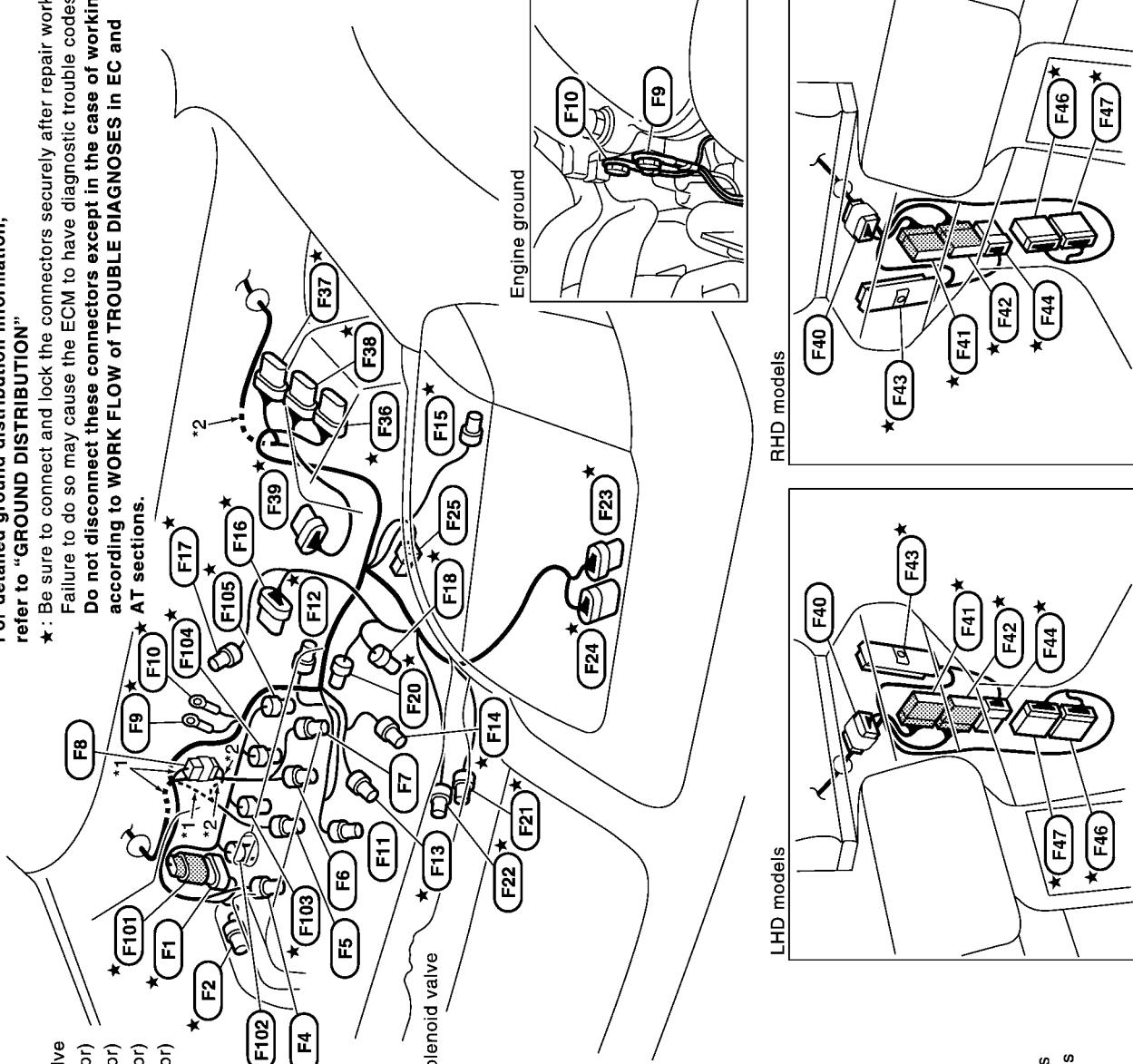
QR20 Engine Models with A/T

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 (F10)
★ 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/2	: Ignition coil No. 4 (With power transistor)
★ F8	-	: 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	G/2	: Engine coolant temperature sensor
★ F19	B/3	: Camshaft position sensor (PHASE)
★ F20	G/4	: Heated oxygen sensor 1
★ F21	L/4	: Heated oxygen sensor 2
★ F22	B/8	: A/T solenoid valve
★ F23	B/10	: Park/Neutral position switch
★ F24	B/1	: Starter motor
★ F25	GY/9	: To (E60)
★ F26	F/36	: To (E62)
★ F27	GY/8	: To (E61)
★ F28	DGY/8	: Mass air flow sensor
★ F29	GY/5	: Joint connector-4
★ F30	GY/6	: To (M61)
★ F31	BR/24	: To (M62)
★ F32	W/16	: ECM
★ F33	SMJ	: ECM relay
★ F34	BR/6	: TCM (Transmission control module)
★ F35	F/46	: TCM (Transmission control module)
★ F36	GY/24	: TCM (Transmission control module)
★ F37	GY/24	: TCM (Transmission control module)

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

CKWA0074E

*1: LHD models
*2: RHD models

HARNESS

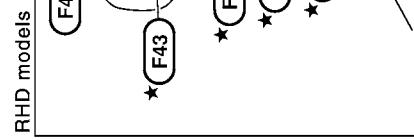
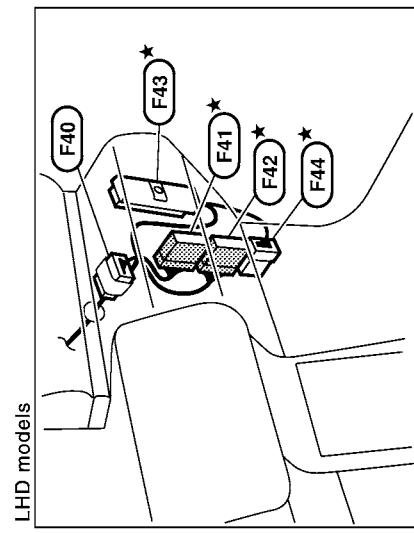
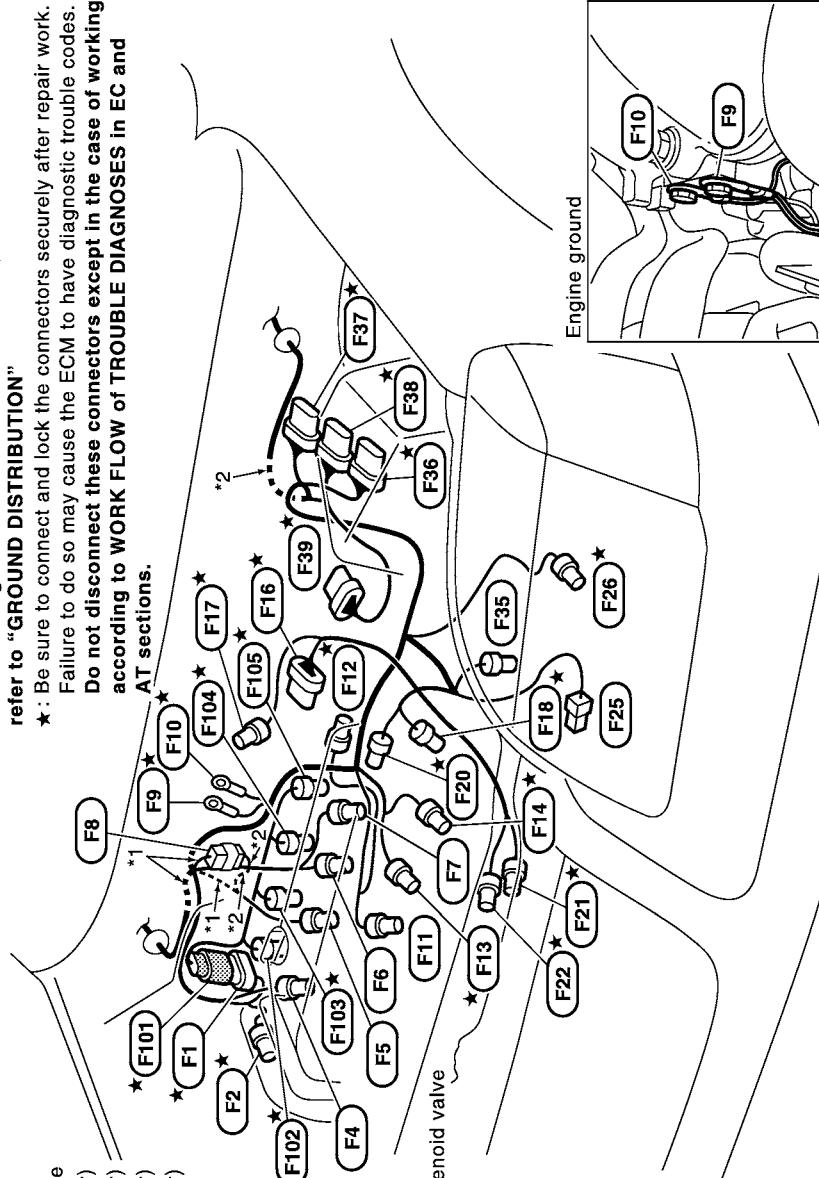
QR20 Engine Models with M/T

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

- ★ : To **F101** Intake valve timing control solenoid valve
- ★ : Ignition coil No. 1 (With power transistor)
- ★ : Ignition coil No. 2 (With power transistor)
- ★ : Ignition coil No. 3 (With power transistor)
- ★ : Ignition coil No. 4 (With power transistor)
- ★ : Condenser
- ★ : Engine ground
- ★ : Engine ground
- ★ : Oil pressure switch
- ★ : Power steering pressure sensor
- ★ : Knock sensor
- ★ : Crankshaft position sensor (POS)
- ★ : Electronic throttle control actuator
- ★ : EVAP canister purge volume control solenoid valve
- ★ : Camshaft position sensor (PHASE)
- ★ : Heated oxygen sensor 1
- ★ : Heated oxygen sensor 2
- ★ : Starter motor
- ★ : Park/Neutral position switch
- ★ : Back-up lamp switch
- ★ : To **E60**
- ★ : To **E62**
- ★ : To **E61**
- ★ : Mass air flow sensor
- ★ : Joint connector-4
- ★ : To **M61**
- ★ : ECM
- ★ : ECM relay

- ★ : To **F101** Intake valve timing control solenoid valve
- ★ : Ignition coil No. 1 (With power transistor)
- ★ : Ignition coil No. 2 (With power transistor)
- ★ : Ignition coil No. 3 (With power transistor)
- ★ : Ignition coil No. 4 (With power transistor)
- ★ : Condenser
- ★ : Engine ground
- ★ : Engine ground
- ★ : Oil pressure switch
- ★ : Power steering pressure sensor
- ★ : Knock sensor
- ★ : Crankshaft position sensor (POS)
- ★ : Electronic throttle control actuator
- ★ : EVAP canister purge volume control solenoid valve
- ★ : Camshaft position sensor (PHASE)
- ★ : Heated oxygen sensor 1
- ★ : Heated oxygen sensor 2
- ★ : Starter motor
- ★ : Park/Neutral position switch
- ★ : Back-up lamp switch
- ★ : To **E60**
- ★ : To **E62**
- ★ : To **E61**
- ★ : Mass air flow sensor
- ★ : Joint connector-4
- ★ : To **M61**
- ★ : ECM
- ★ : ECM relay

*1: LHD models
*2: RHD models



Engine control sub-harness

- ★ : To **F1**
- ★ : Injector No. 1
- ★ : Injector No. 2
- ★ : Injector No. 3
- ★ : Injector No. 4

CKWA0075E

A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z

PG

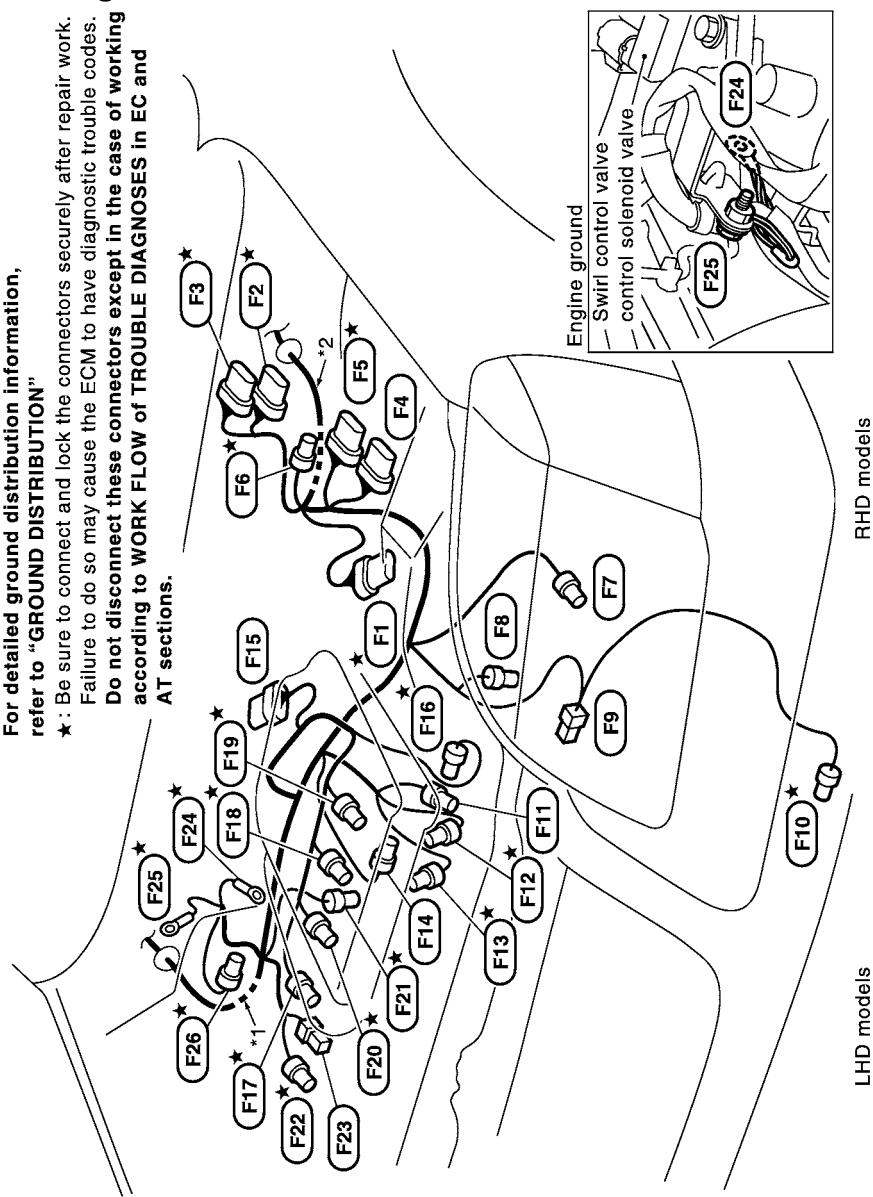
HARNESS

Diesel Engine Models

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

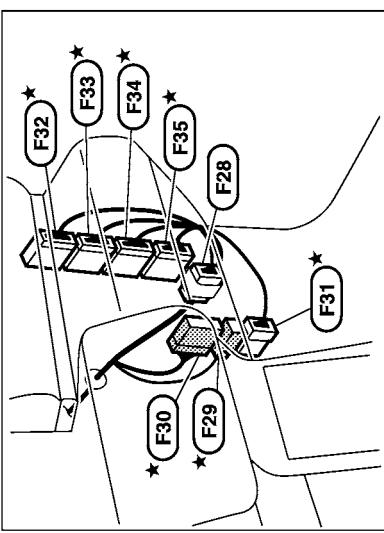
* : Be sure to connect and lock the connectors securely after repair work.
Failure to do so may cause the ECM to have diagnostic trouble codes.

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

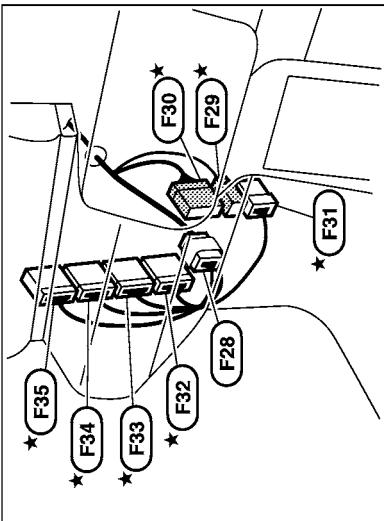


★ F1	: Mass air flow sensor
★ F2	: Park/Neutral position switch
★ F3	: Back-up lamp switch
★ F4	: Starter motor
★ F5	: Crankshaft position sensor (TDC)
★ F6	: Oil pressure switch
★ F7	: Fuel supply pump
★ F8	: Fuel supply pump
★ F9	: Power steering oil pressure switch
★ F10	: EGR volume control valve
★ F11	: Camshaft position sensor
★ F12	: Fuel injector No. 1
★ F13	: Fuel injector No. 3
★ F14	: Fuel injector No. 4
★ F15	: Fuel injector No. 2
★ F16	: Fuel injector No. 1
★ F17	: Fuel injector No. 3
★ F18	: Fuel injector No. 4
★ F19	: Fuel injector No. 2
★ F20	: Fuel temperature sensor
★ F21	: Engine coolant temperature sensor
★ F22	: Thermal transmitter
★ F23	: Common rail fuel pressure sensor
★ F24	: Joint connector-5
★ F25	: Engine ground
★ F26	: To (M54)
★ F27	: To (M53)
★ F28	: ECM relay
★ F29	: ECM
★ F30	: ECM
★ F31	: ECM
★ F32	: ECM
★ F33	: ECM
★ F34	: ECM
★ F35	: ECM

RHD models



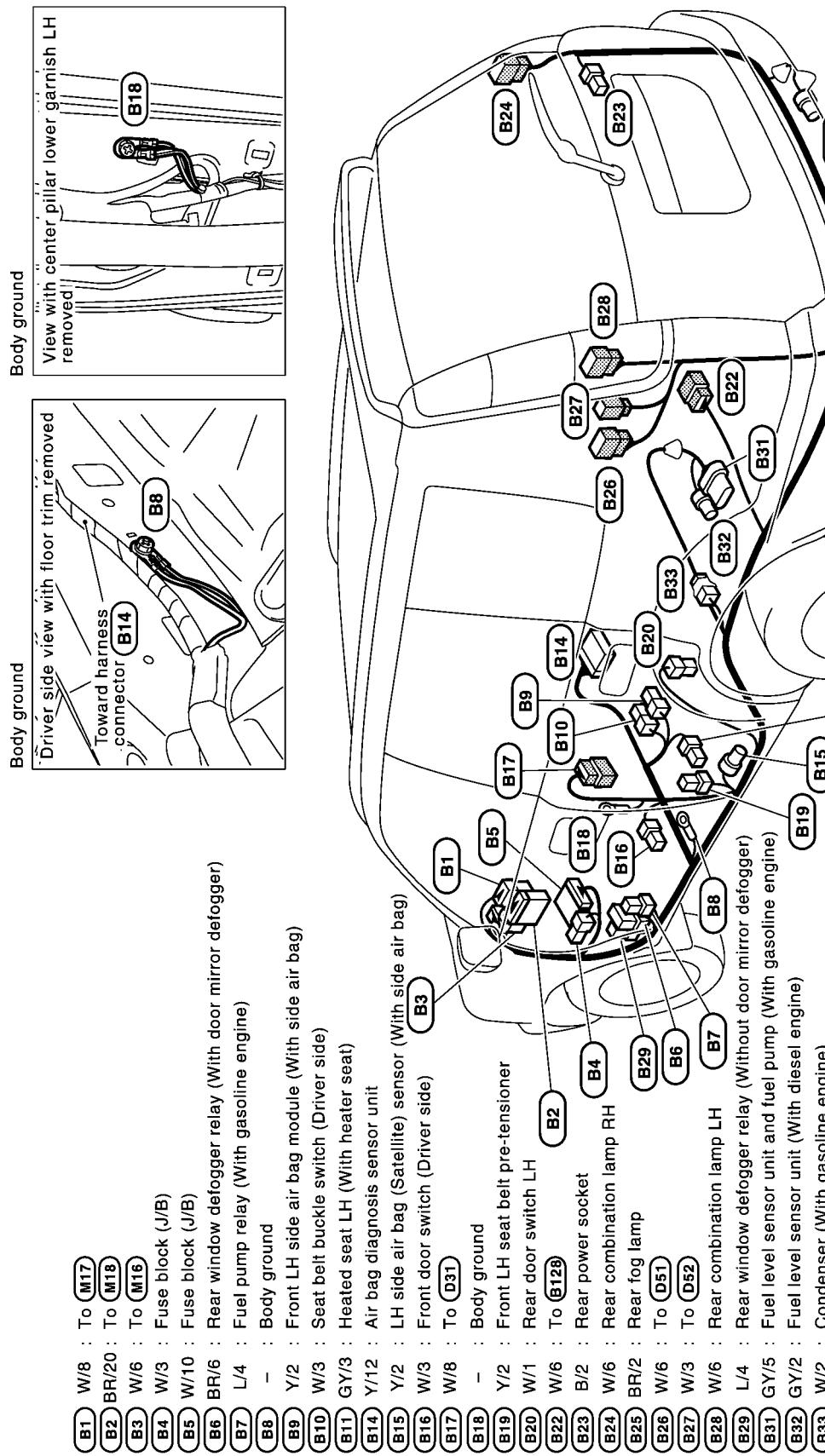
LHD models



*1: LHD models
*2: RHD models

HARNESS

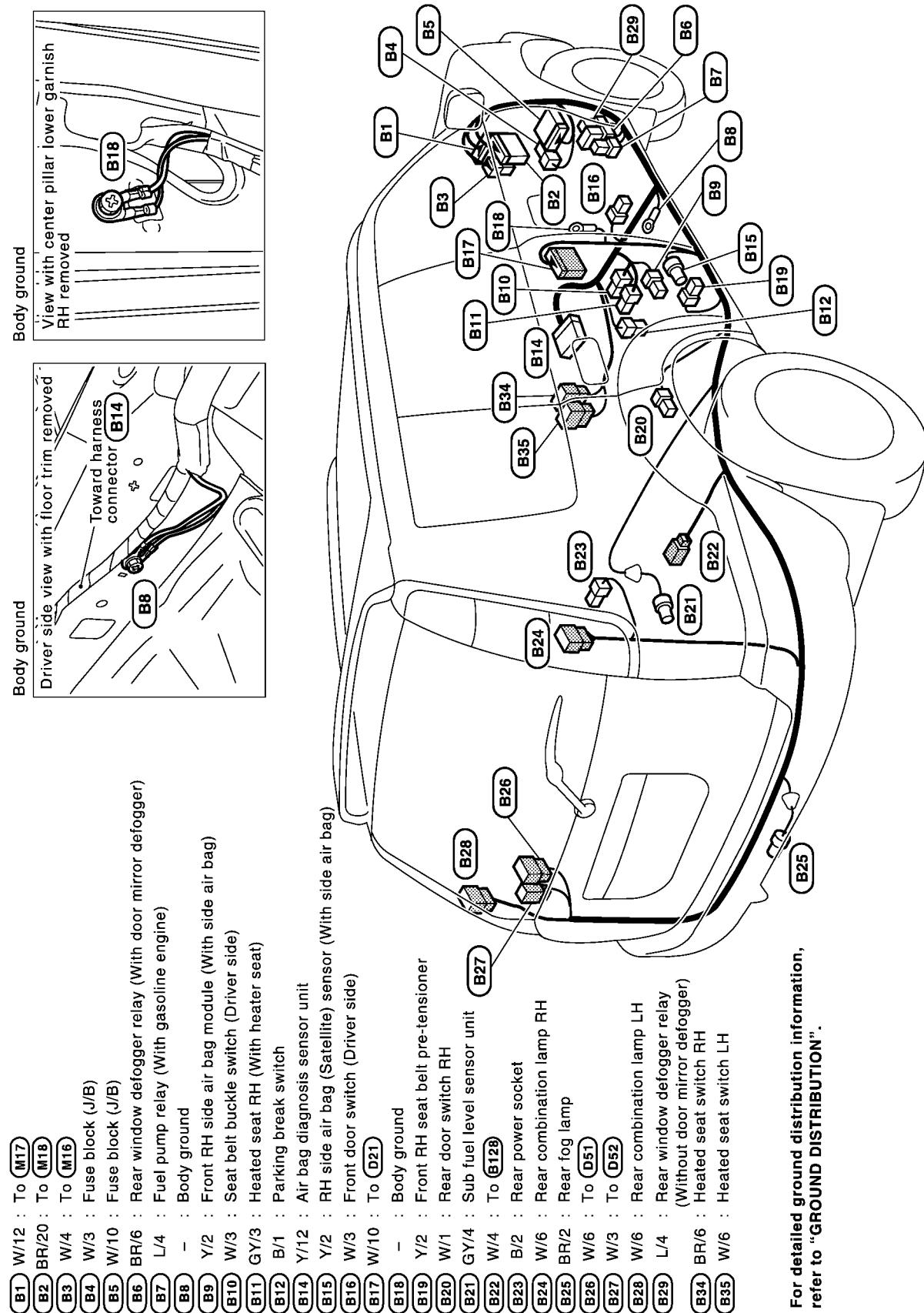
BODY HARNESS/LHD MODELS



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

HARNESS

BODY HARNESS/RHD MODELS

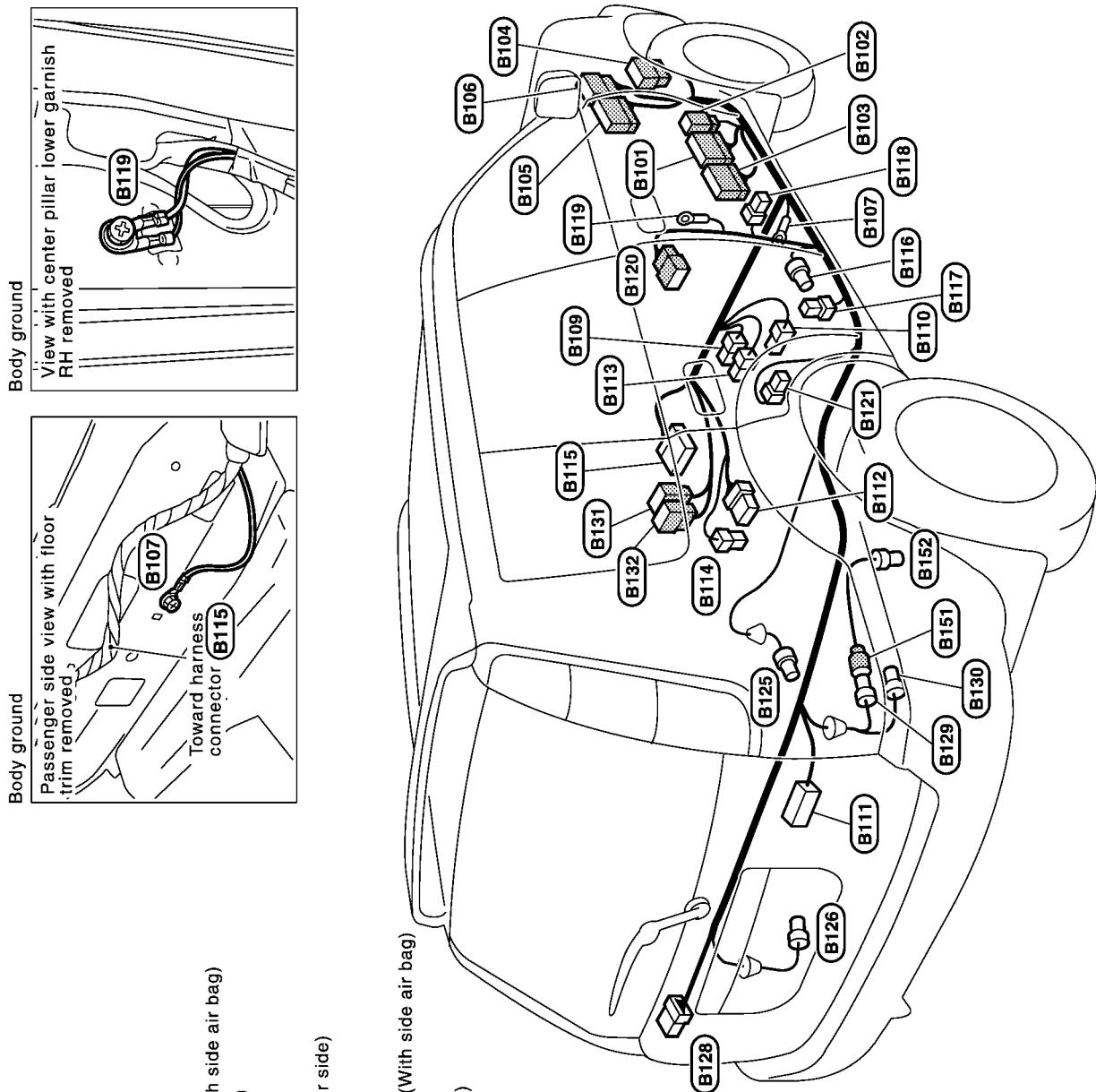


For detailed ground distribution information,
refer to "GROUND DISTRIBUTION".

Harness

BODY NO.2 HARNESS/LHD MODELS

SMA for models with roof mounted driving lamp

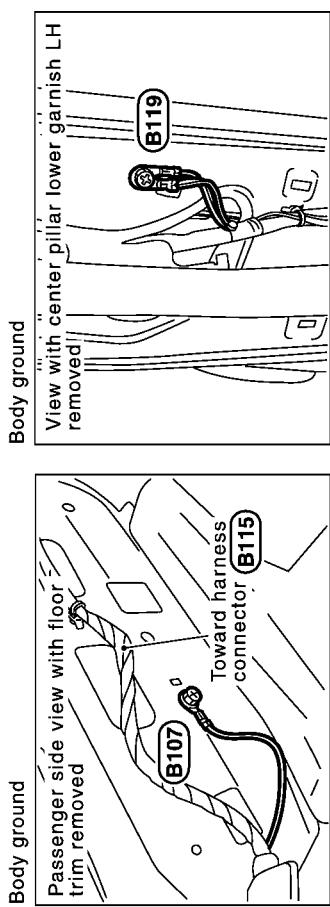


(B101)	W/16	To (E117) (With ESP)
(B102)	B/2	To (E118)
(B103)	W/20	To (E119) (With ESP)
(B104)	W/8	To (E120) (With ESP)
(B105)	W/12	To (M78) (Without ESP)
(B106)	W/8	To (M79)
(B107)	-	Body ground (With ESP)
(B108)	Y/2	Front RH side air bag module (With side air bag)
(B109)	GY/3	Heated seat RH (With heater seat)
(B110)	SMJ	ESP/TCS/ABS control unit
(B111)	B/6	Yaw rate and G sensor
(B112)	W/3	Seat belt buckle switch (Passenger side)
(B113)	B/1	Parking brake switch
(B114)	Y/12	Air bag diagnosis sensor unit
(B115)	Y/2	RH side air bag (Satellite) sensor (With side air bag)
(B116)	Y/2	Front RH seat belt pre-tensioner
(B117)	W/3	Front door switch (Passenger side)
(B118)	-	Body ground
(B119)	W/8	To (D21)
(B120)	W/1	Rear door switch RH
(B121)	B/2	Sub fuel level sensor unit
(B122)	BR/2	Rear wheel sensor LH
(B123)	W/6	To (B22)
(B124)	B/2	To (B151)
(B125)	GY/2	Rear wheel sensor RH
(B126)	W/6	Heated seat switch LH
(B127)	BR/6	Heated seat switch RH
Transmission sub-harness		
(B151)	B/2	To (B129)
(B152)	GY/2	4WD solenoid valve

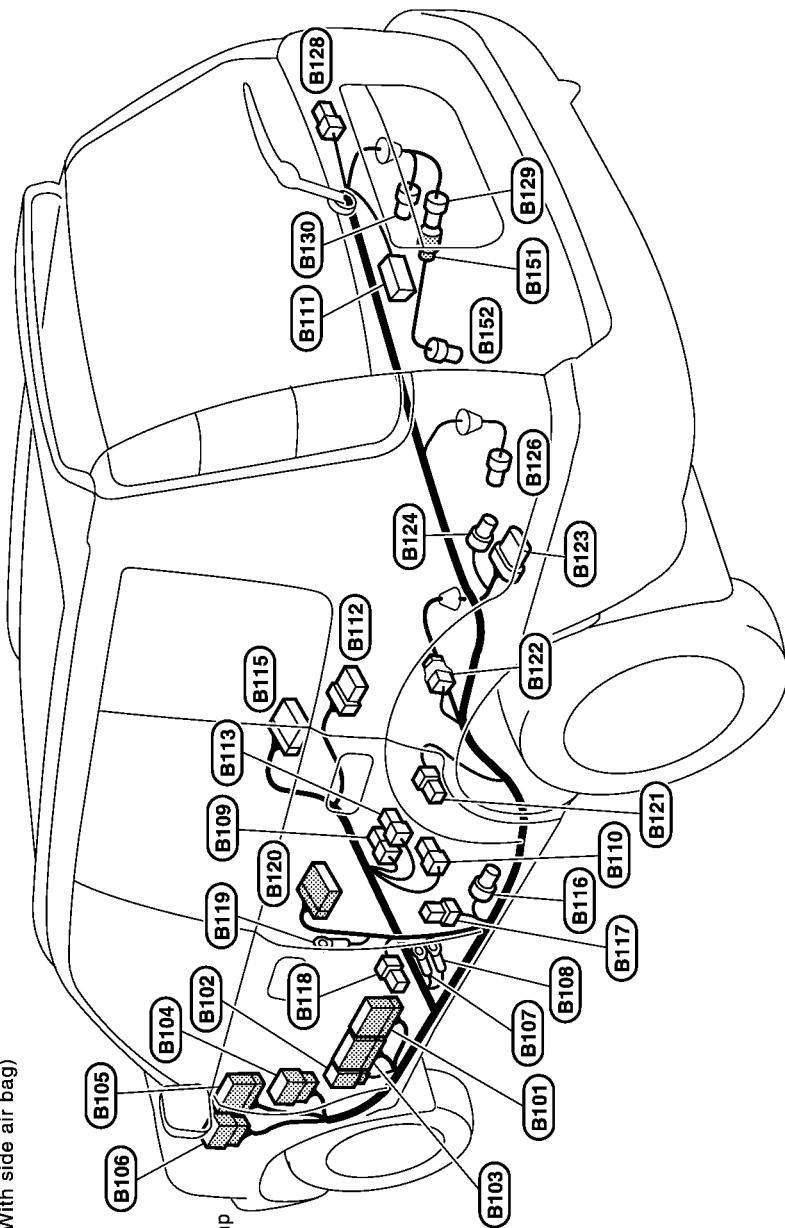
For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

HARNESS

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) (B110) Y/2	: Front LH side air bag module (With side air bag)
(B111) GY/3	: Heated seat LH (With heater seat)
(B112) SMJ	: ESP/TCS/ABS control unit
(B113) B/6	: Yaw rate and G sensor
(B114) 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 (With diesel engine)
(B125) BR/2	: Rear wheel sensor LH
(B126) W/4	: To (B22)
(B127) B/2	: To (B15)
(B128) GY/2	: Rear wheel sensor RH



Transmission sub-harness

(B129) B/2	: To (B129)
(B130) GY/2	: 4WD solenoid valve

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

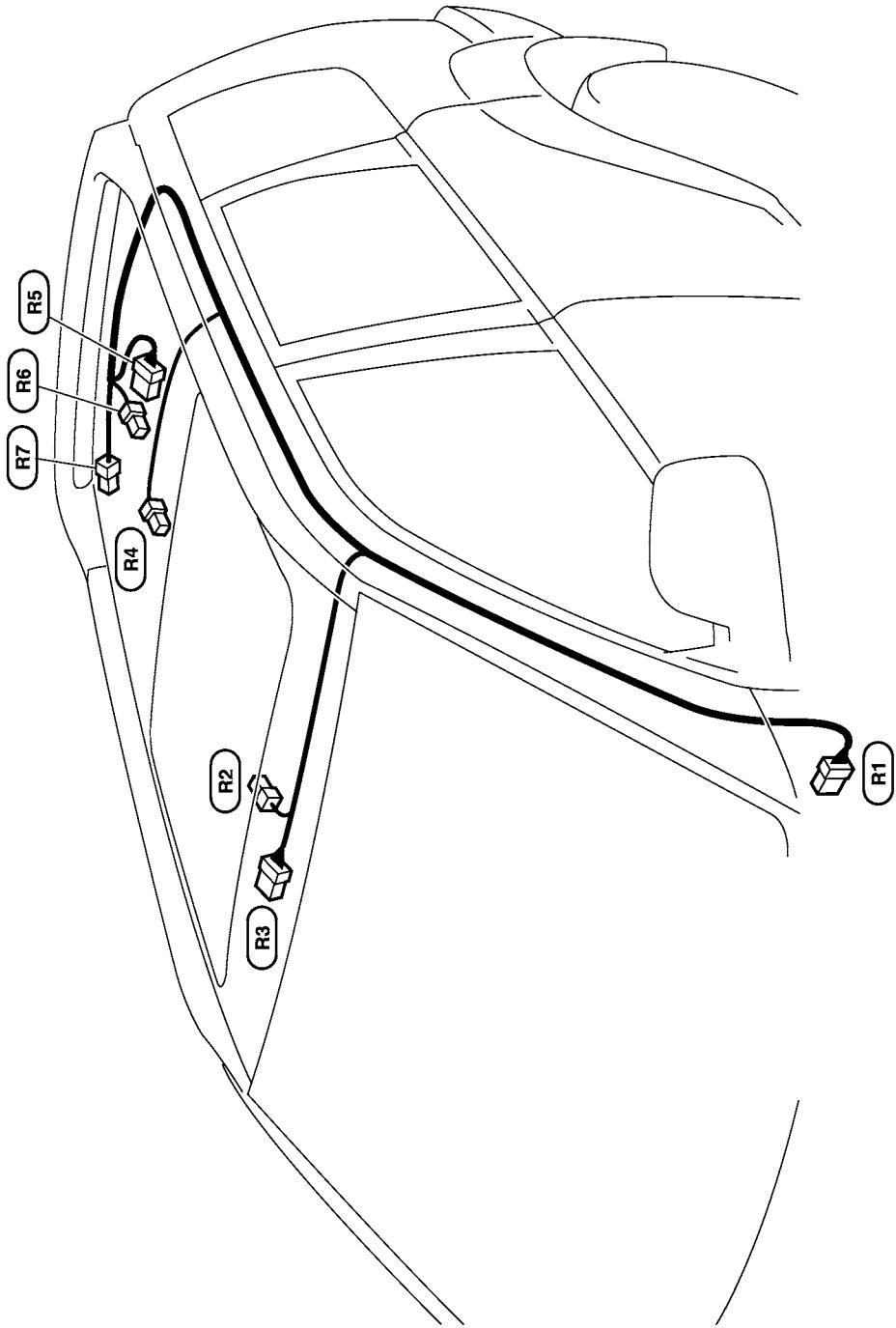
HARNESS

ROOM LAMP HARNESS

SMA for models with roof mounted driving lamp

W/6 : To **M73**
W/2 : Spot lamp
G/Y/6 : Sunroof switch
W/2 : Interior room lamp
W/6 : Sunroof motor assembly
W/6 : Sunroof motor assembly
W/1 : Luggage room lamp

R1 **R2** **R3** **R4** **R5** **R6** **R7**



A
B
C
D
E
F
G
H
I
J

PG

L

M

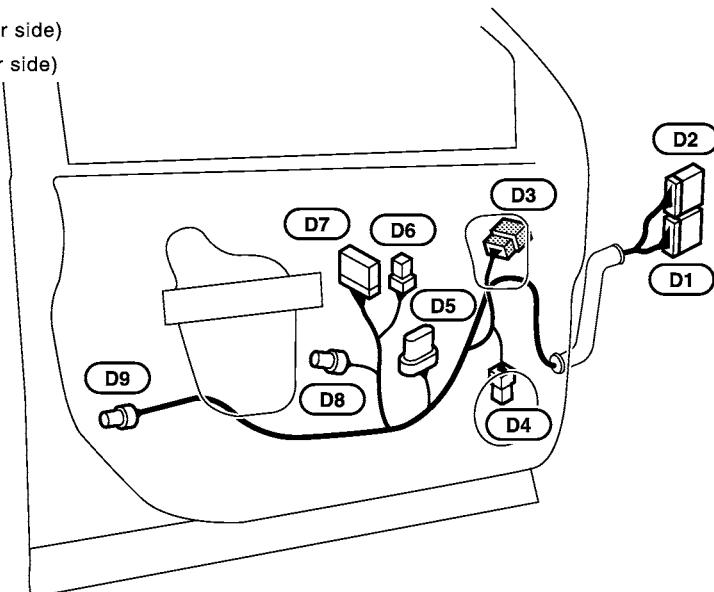
CKWA0081E

HARNESS

FRONT DOOR HARNESS/LHD MODELS

Driver Side

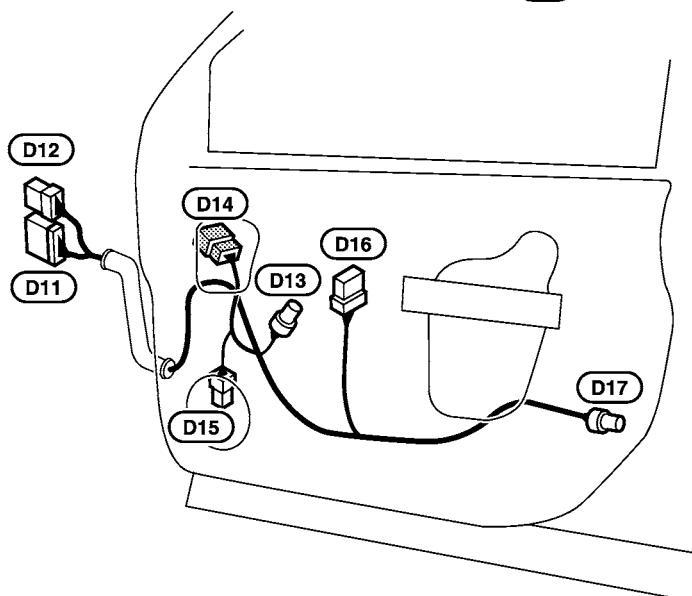
- D1** W/16 : To **M21**
- D2** BR/12 : To **M22**
- D3** W/8 : Door mirror actuator (Driver side)
- D4** W/2 : Front door speaker LH
- D5** GY/6 : Front power window regulator (Driver side)
- D6** W/3 : Power window main switch
- D7** W/16 : Power window main switch
- D8** BR/3 : Door key cylinder switch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



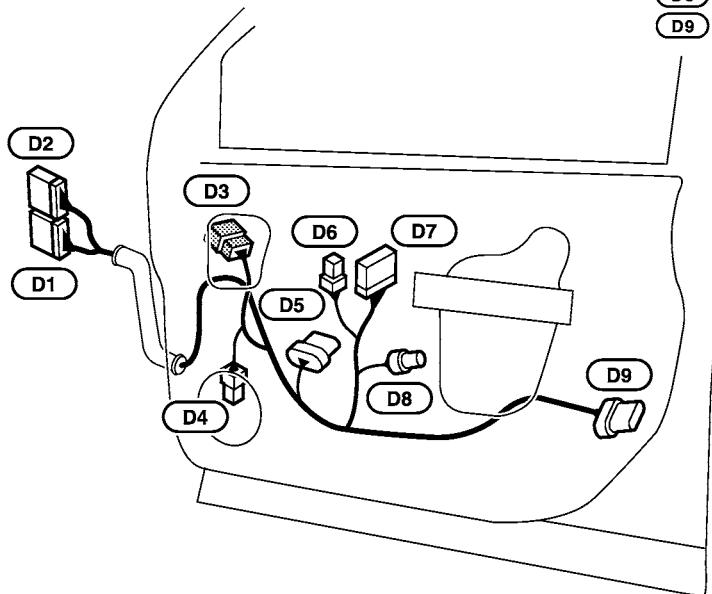
CKWA0083E

HARNESS

FRONT DOOR HARNESS/RHD MODELS

Driver Side

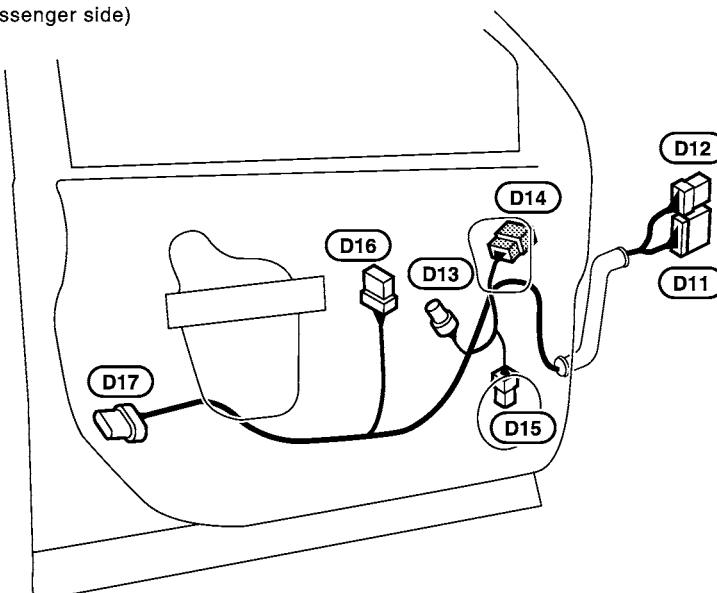
D1	W/18	:	To M21
D2	BR/12	:	To M22
D3	W/8	:	Door mirror actuator (Driver side)
D4	W/2	:	Front door speaker RH
D5	GY/6	:	Front power window regulator (Driver side)
D6	W/3	:	Power window main switch
D7	W/16	:	Power window main switch
D8	BR/3	:	Door key cylinder switch (Driver side)
D9	B/6	:	Front door lock actuator (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)



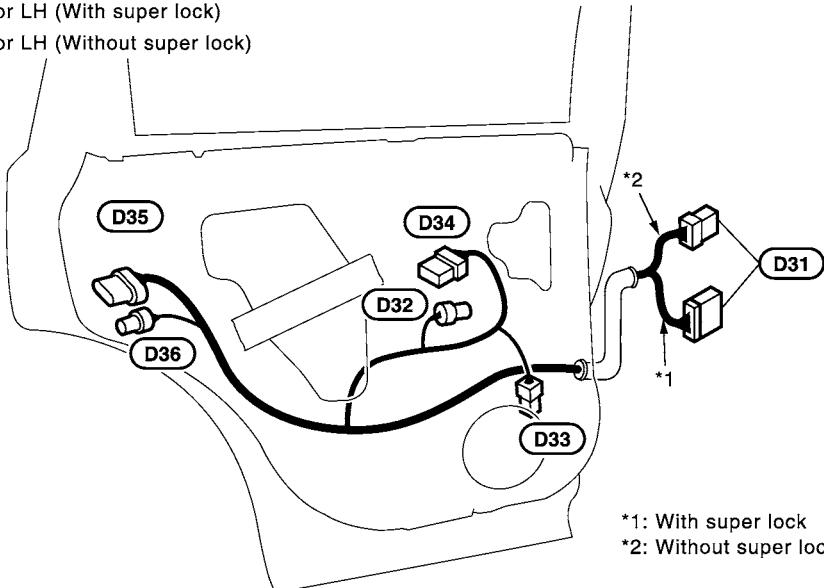
CKWA0085E

HARNESS

REAR DOOR HARNESS

LH Side

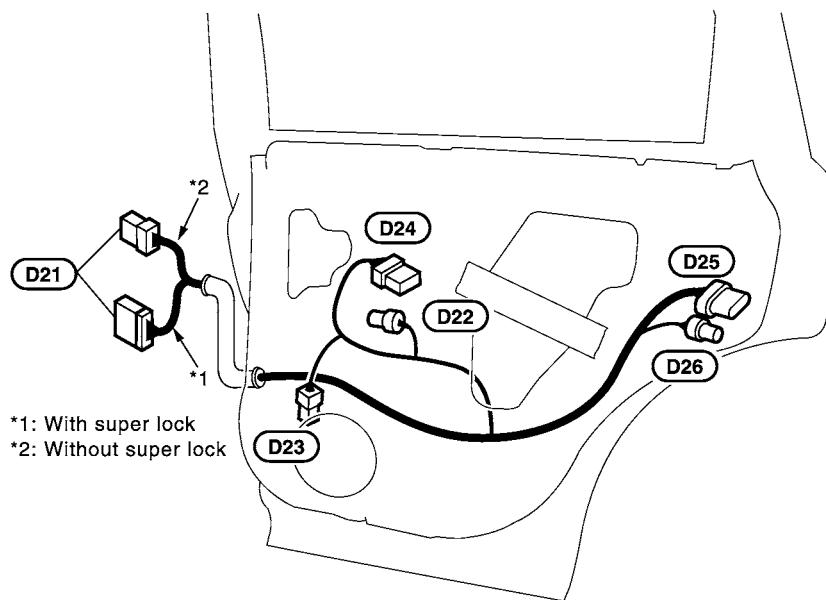
- (D31) W/8 : To **B17** (LHD models) (Without super lock)
- W/10 : To **B120** (RHD models) (With super lock)
- (D32) BR/2 : Rear power window regulator LH
- (D33) W/2 : Rear door speaker LH
- (D34) W/8 : Rear power window switch LH
- (D35) B/6 : Rear door lock actuator LH (With super lock)
- (D36)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



CKWA0086E

RH Side

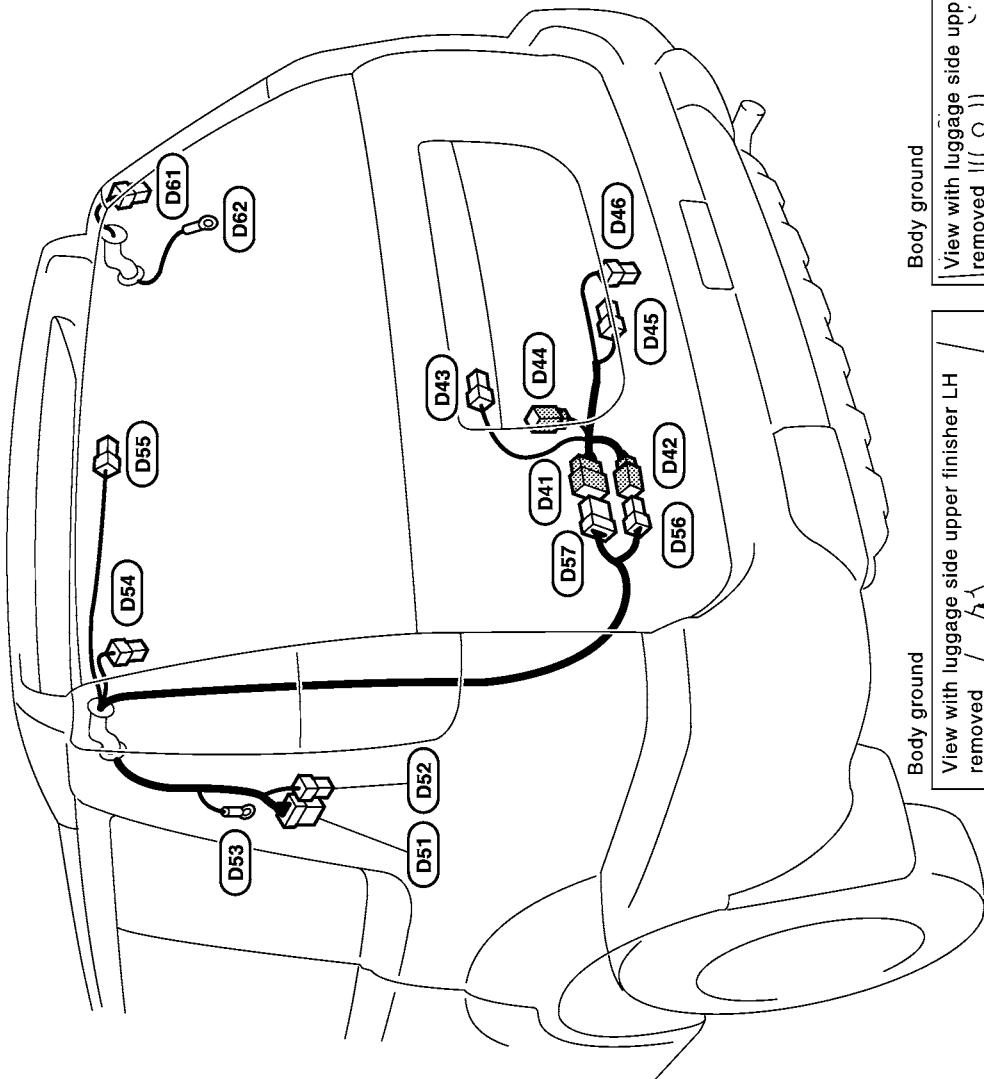
- (D21) W/10 : To **B17** (RHD models) (With super lock)
- W/8 : To **B120** (LHD models) (Without super lock)
- (D22) BR/2 : Rear power window regulator RH
- (D23) W/2 : Rear door speaker RH
- (D24) W/8 : Rear power window switch RH
- (D25) B/6 : Rear door lock actuator RH (With super lock)
- (D26)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



CKWA0087E

Harness

BACK DOOR HARNESS



Back Door Harness

W/6	To B57	License l
B/2	To B56	Back doo
W/4	Rear wip	Back doo
W/2		Back doo
W/3		Back doo
W/4		Back doo

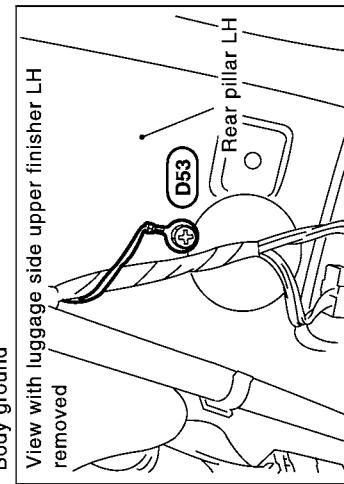
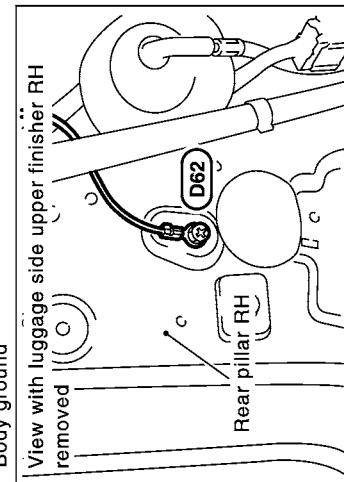
Back Door Sub-Harness

(D51)	W/6	: To B26
(D52)	W/3	: To B27
(D53)	-	: Body gro
(D54)	W/1	: Rear wind
(D55)	W/2	: High-mou
(D56)	B/2	: To B42
(D57)	W/6	: To B41

Rear Window Defogger Harness

D61 W/1 : Rear wind
D62 - : Body gro

**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
GLOW	EC	Glow Control System
H/AIM	LT	Headlamp Aiming Control System
H/LAMP	LT	Headlamp
H/SEAT	SE	Heated Seat
HEATER	MTC	Heater System
HLC	WW	Headlamp Cleaner
HO2S1	EC	Heated Oxygen Sensor 1 (Front)
HO2S1H	EC	Heated Oxygen Sensor 1 Heater (Front)
HO2S2	EC	Heated Oxygen Sensor 2 (Rear)
HO2S2H	EC	Heated Oxygen Sensor 2 Heater (Rear)
HORN	WW	Horn
IATS	EC	Intake Air Temperature Sensor
IATSEN	EC	Intake Air Temperature Sensor
IGN/SG	EC	Ignition Signal
IGNSYS	EC	Ignition Signal
ILL	LT	Illumination
INJECT	EC	Injector
INT/L	LT	Map Lamp
IVC	EC	Intake Valve Timing Control Solenoid Valve
IVC/V	EC	Intake Valve Timing Control Solenoid Valve
KS	EC	Knock Sensor (KS)
LOAD	EC	Electrical Load Signal
LPSV	AT	Line Pressure Solenoid Valve
MAFS	EC	Mass Air Flow Sensor (MAFS)
MAIN	EC, AT	Main Power Supply and Ground Circuit
METER	DI	Meter and Gauge
MIL	EC	Malfunction Indicator Lamp
MIL/DL	EC	MIL and Data Link Connector
MIRROR	GW	Door Mirror
MULTI	BL	Multi-Remote Control System
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

A

B

C

D

E

F

G

H

I

J

PG

L

M

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

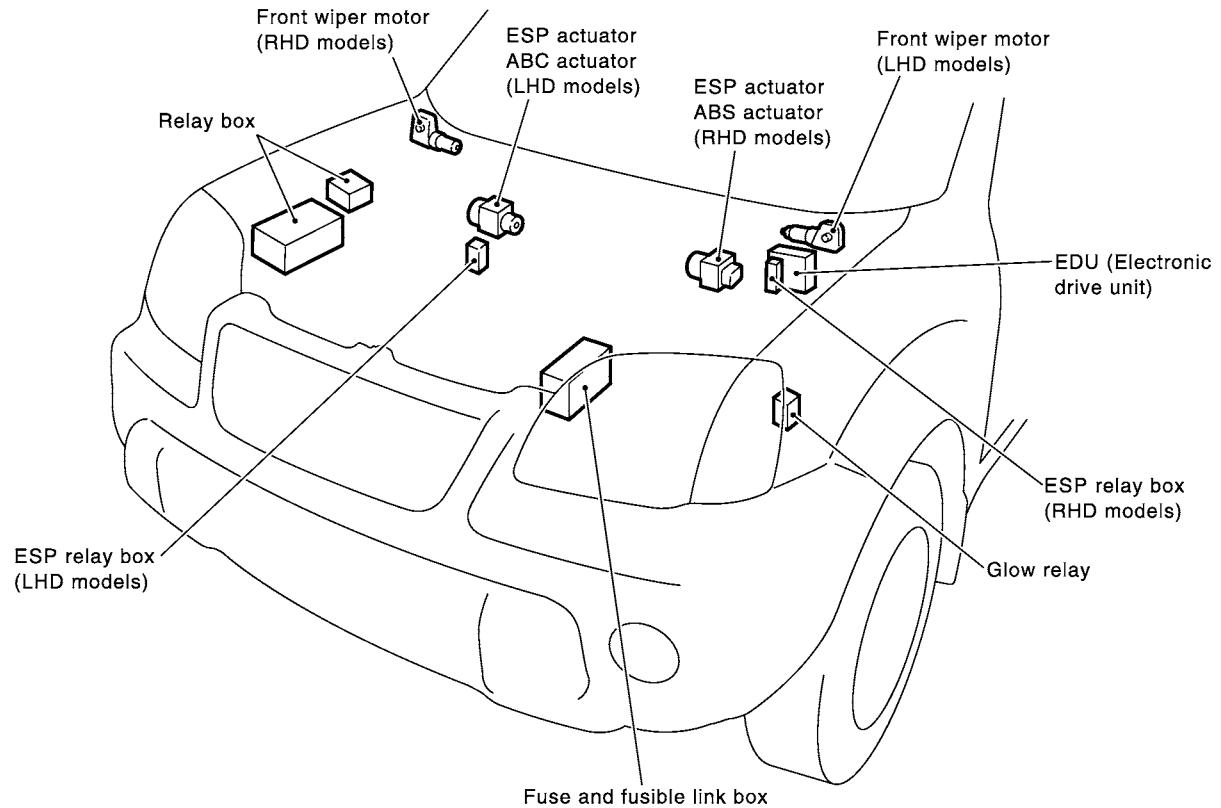
ELECTRICAL UNITS LOCATION

Electrical Units Location ENGINE COMPARTMENT

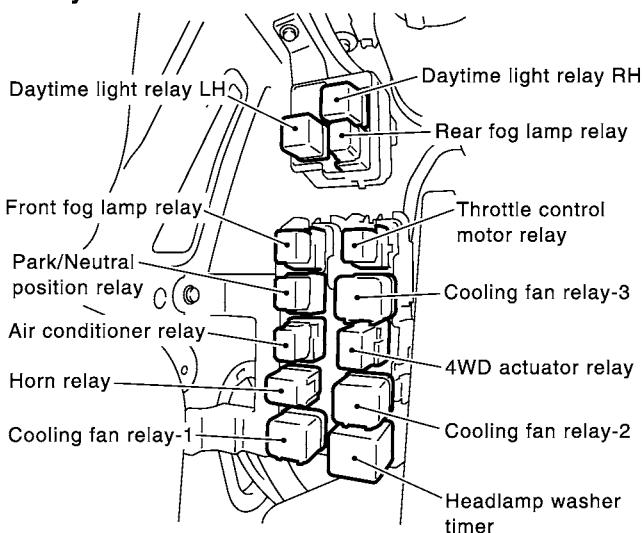
PFP:25230

EKS0032K

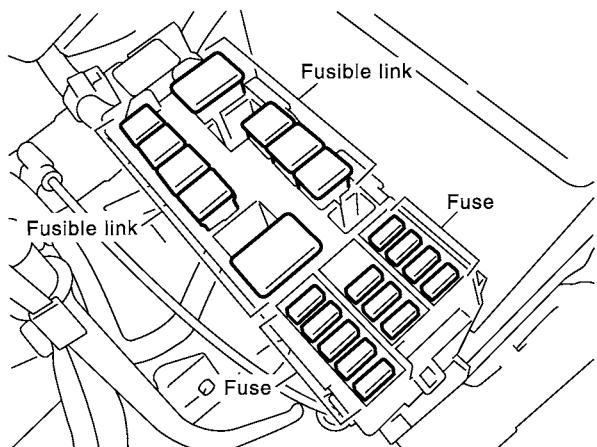
SMA for models with roof mounted driving lamp



Relay box



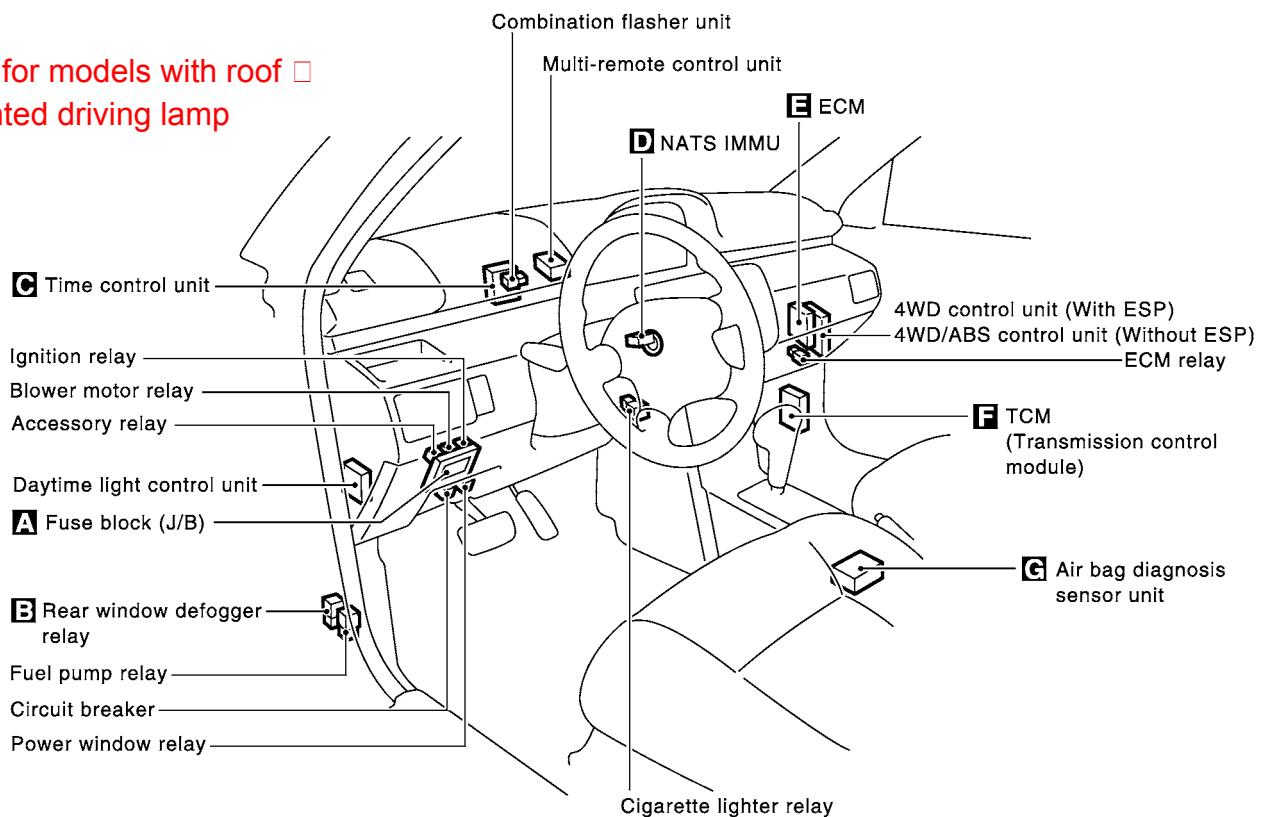
Fuse and fusible link box



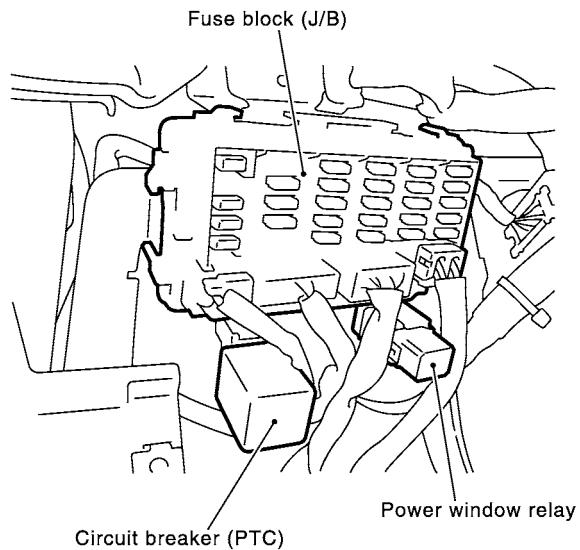
ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT/LHD MODELS

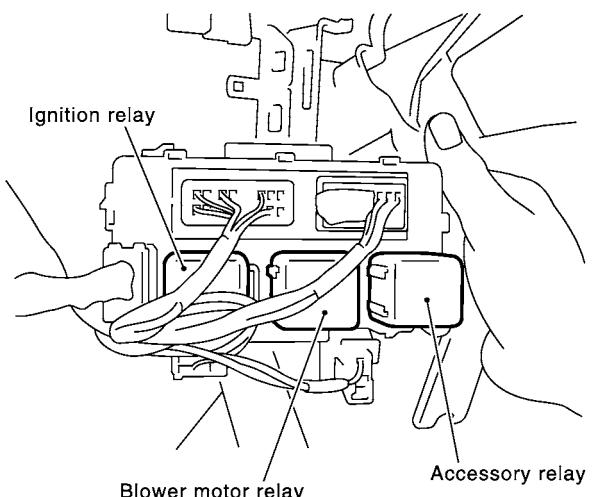
SMA for models with roof mounted driving lamp



A Instrument panel LH



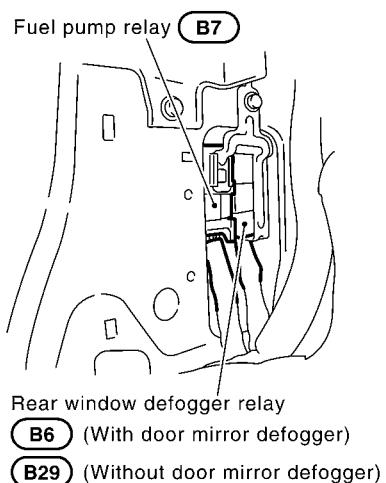
Back of the fuse block (J/B)



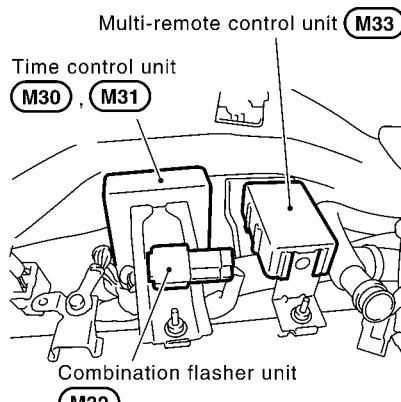
CKWA0090E

ELECTRICAL UNITS LOCATION

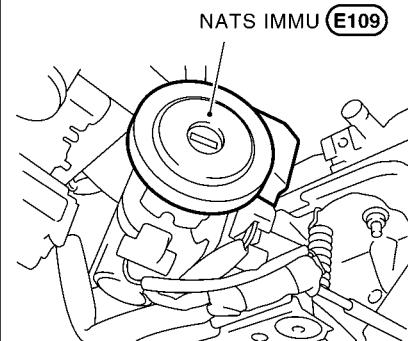
B Driver side view with dash side lower finisher removed



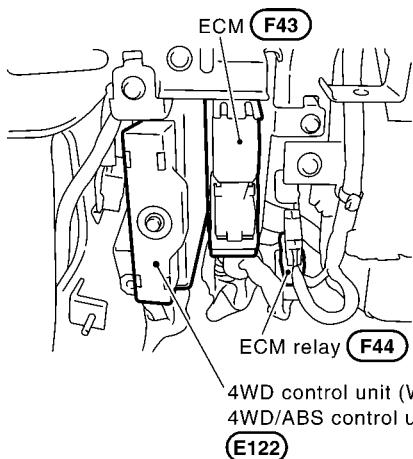
C Driver side view with upper instrument panel removed



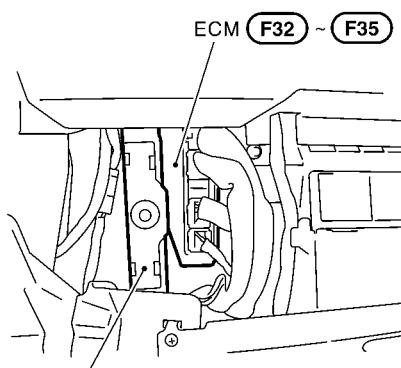
D



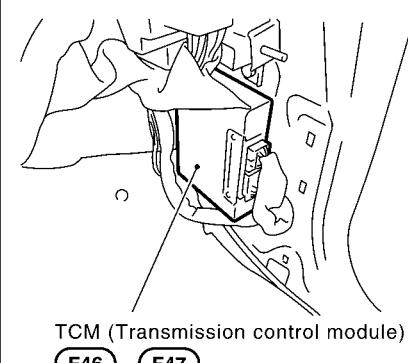
E Behind the glove box
(Gasoline engine models)



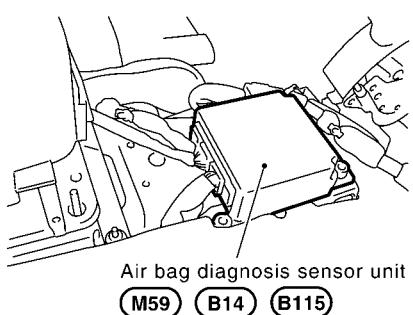
Behind the glove box
(Diesel engine models)



F Passenger side view with dash side lower finisher removed



G Behind the console box assembly



A

B

C

D

E

F

G

H

I

J

PG

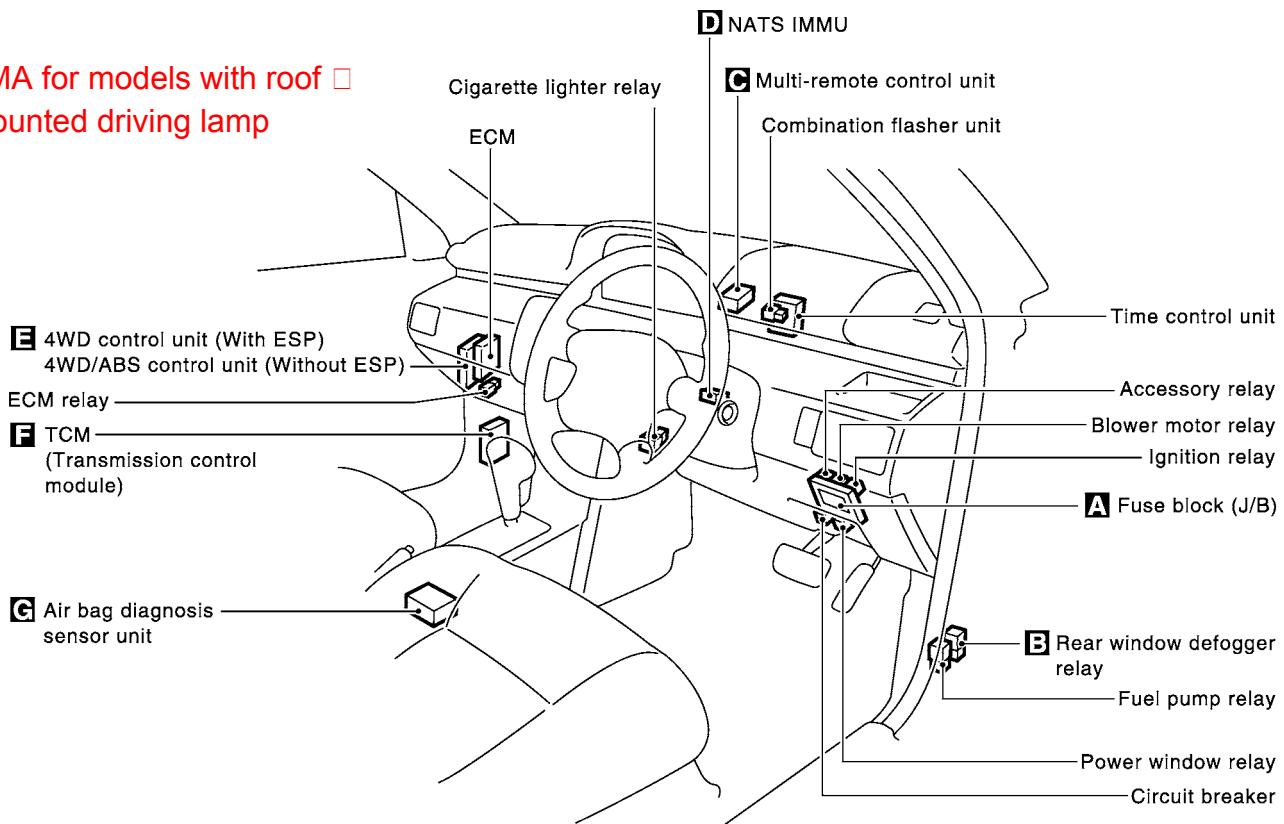
L

M

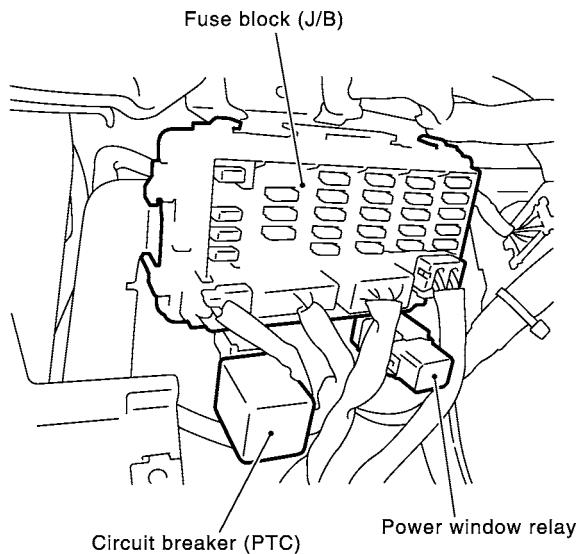
ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT/RHD MODELS

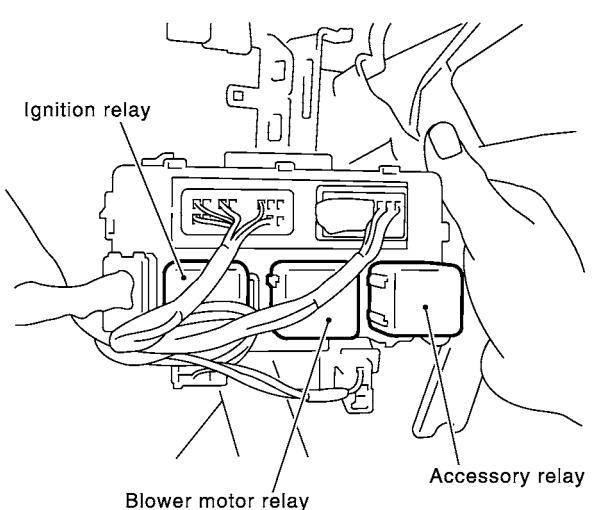
SMA for models with roof □ mounted driving lamp



A Instrument panel RH

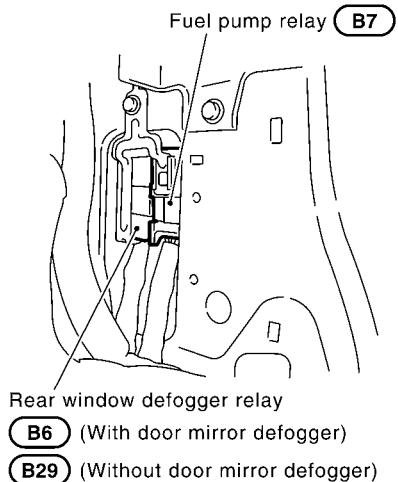


Back of the fuse block (J/B)

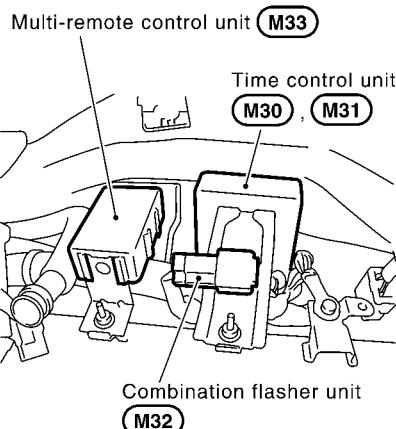


ELECTRICAL UNITS LOCATION

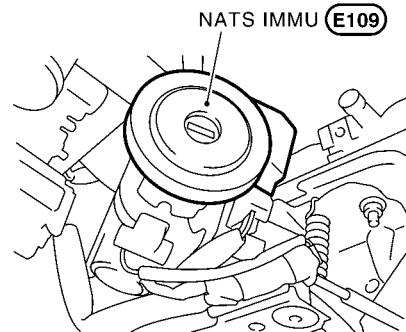
B Driver side view with dash side lower finisher removed



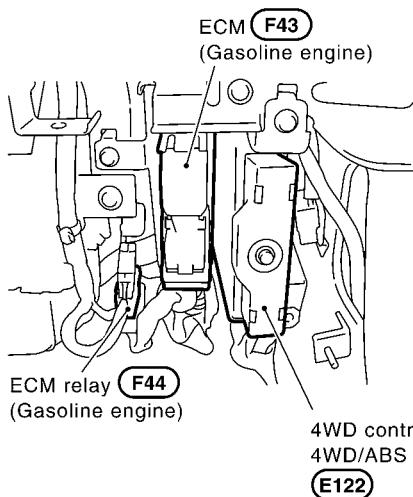
C Driver side view with upper instrument panel removed



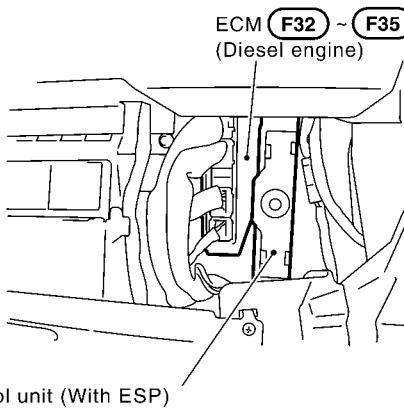
D



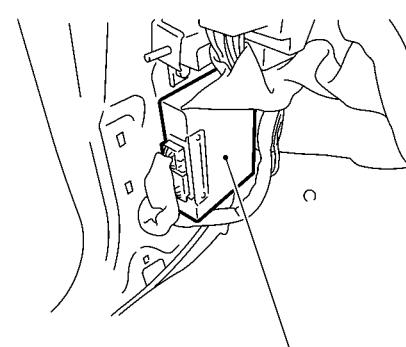
E Behind the glove box
(Gasoline engine models)



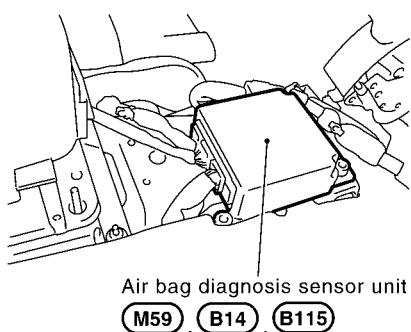
Behind the glove box
(Diesel engine models)



F Passenger side view with dash side lower finisher removed



G Behind the console box assembly



A

B

C

D

E

F

G

H

I

PG

L

M

HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:00011

Description

EKS0032B

HARNESS CONNECTOR (TAB-LOCKING TYPE)

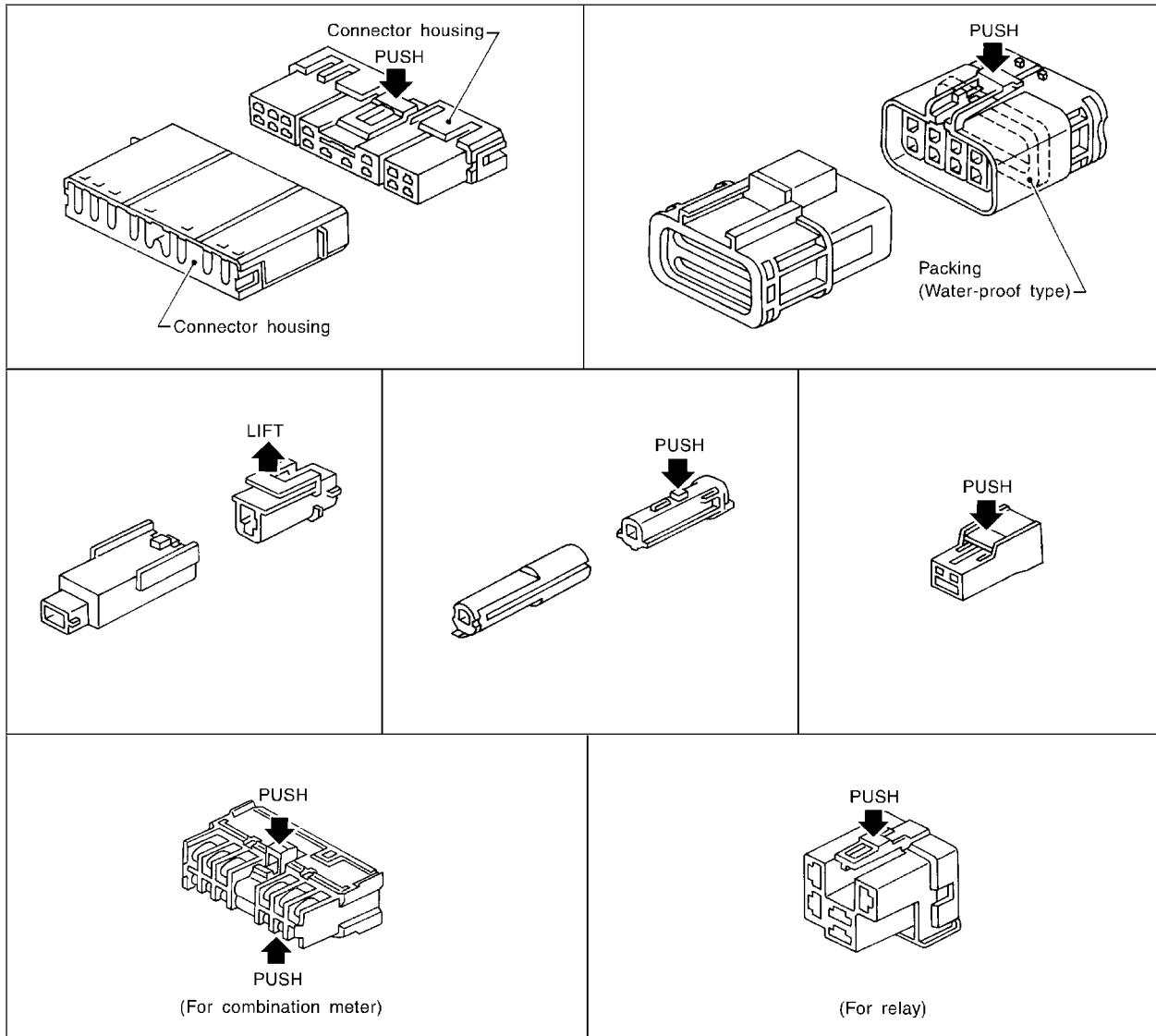
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

CAUTION:

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

[Example]



SEL769DA

HARNESS CONNECTOR

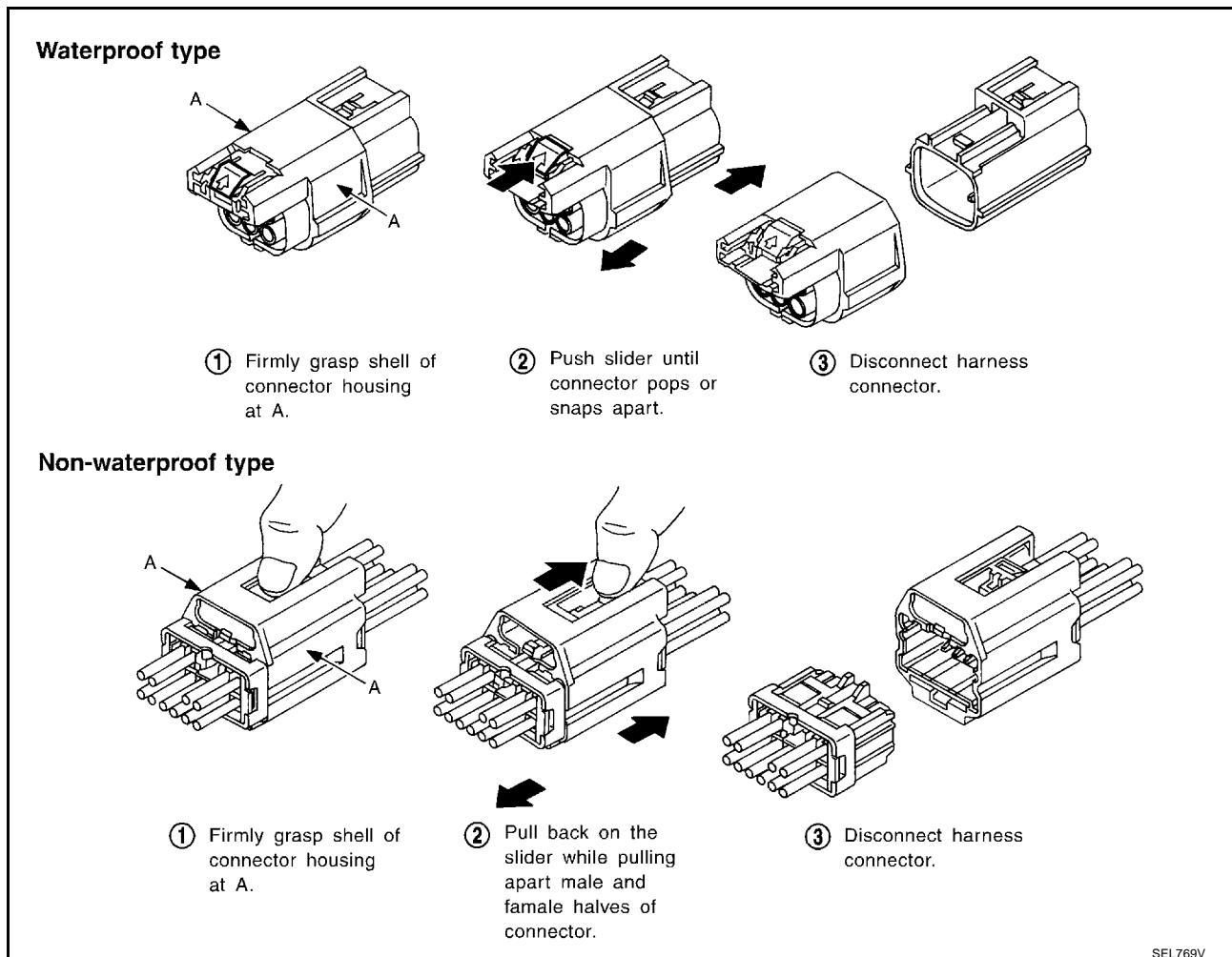
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



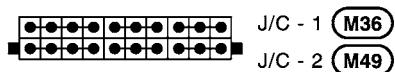
JOINT CONNECTOR (J/C)

JOINT CONNECTOR (J/C)

PFP:B4341

Terminal Arrangement

EKS0032C



J/C - 1 **M36**
J/C - 2 **M49**



(Orange)

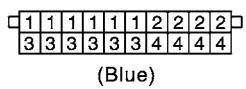
: LHD MODELS
 : RHD MODELS



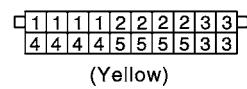
J/C - 3 **M72** :



J/C - 3 **M72** :



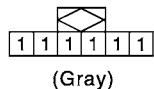
(Blue)



(Yellow)



J/C - 4 **F40**
J/C - 5 **F28**



(Gray)

CKWA0097E

ELECTRICAL UNITS

ELECTRICAL UNITS

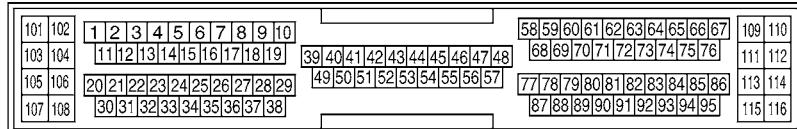
PPF:00011

Terminal Arrangement

EKS0032D

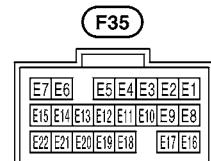
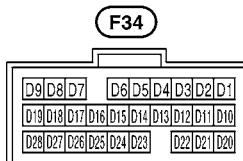
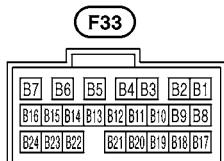
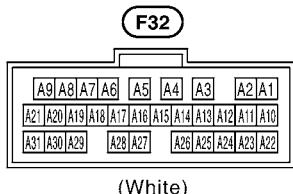
A
B
C
D
E
F
G
H
I
J
L
M
PG

ECM (F43) (Gasoline engine models)



(Gray)

ECM (Diesel engine models)



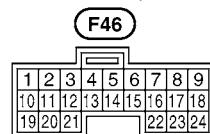
(White)

(White)

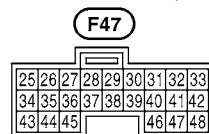
(White)

(White)

TCM (TRANSMISSION CONTROL MODULE)



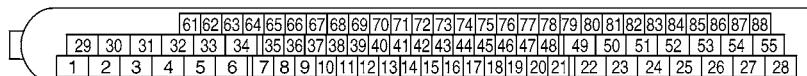
(White)



(Gray)



ESP/TCS/ABS CONTROL UNIT (B111)

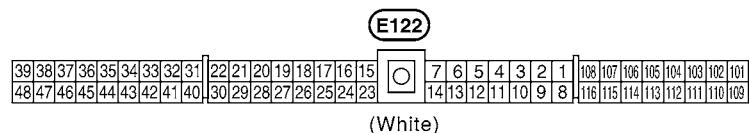


(Black)



4WD CONTROL UNIT (With ESP)

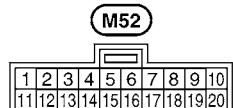
4WD/ABS CONTROL UNIT (Without ESP)



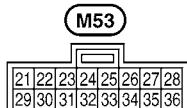
(White)



A/C AUTO AMP.



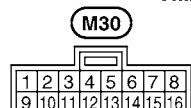
(Gray)



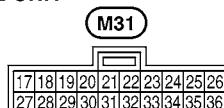
(Gray)



TIME CONTROL UNIT



(Gray)



(Gray)



CKIA0271E

STANDARDIZED RELAY

STANDARDIZED RELAY

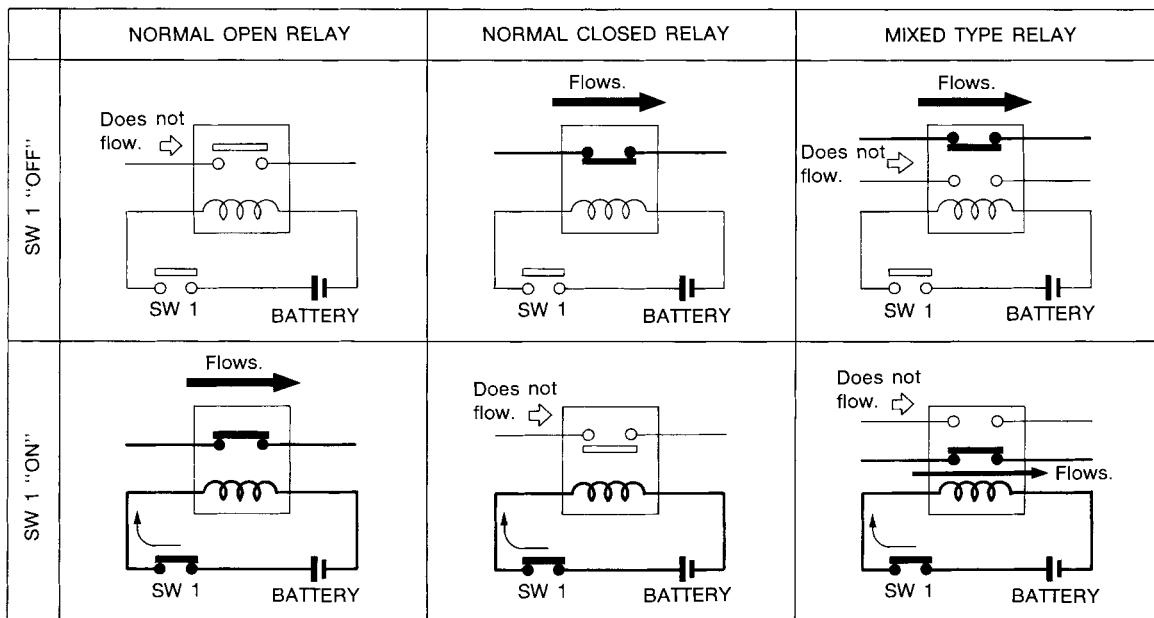
PFP:00011

Description

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

EKS0032E

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



SEL881H

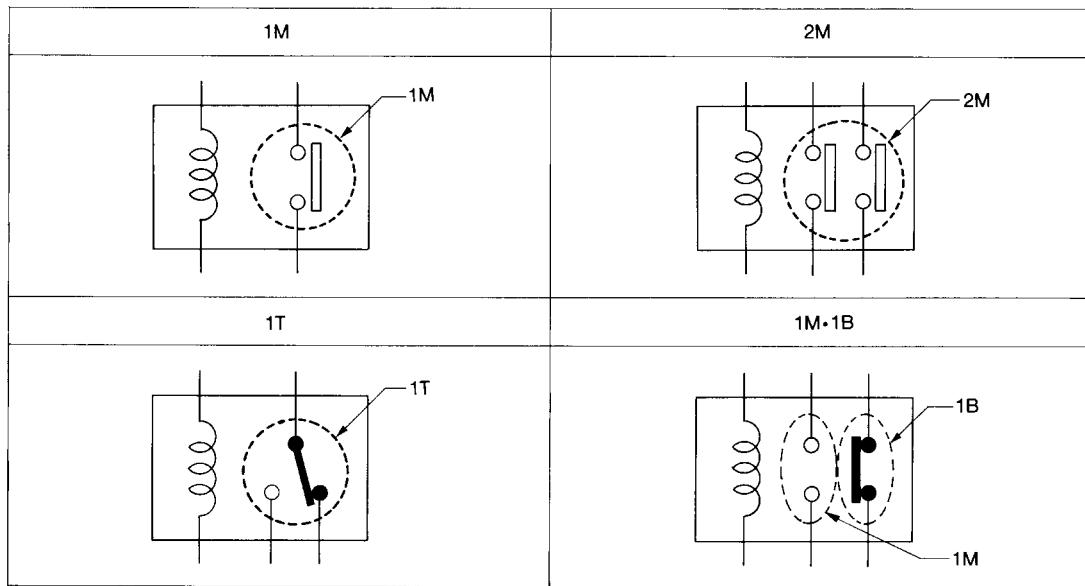
TYPE OF STANDARDIZED RELAYS

1M 1 Make

2M 2 Make

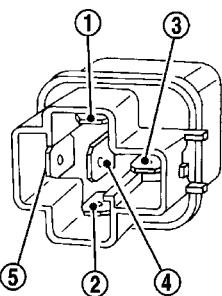
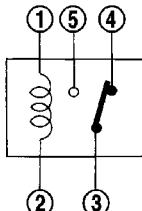
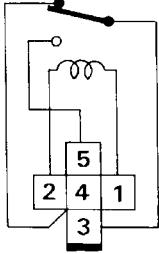
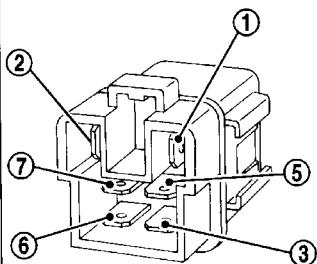
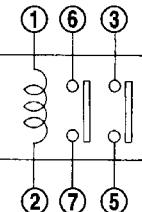
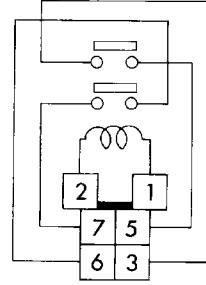
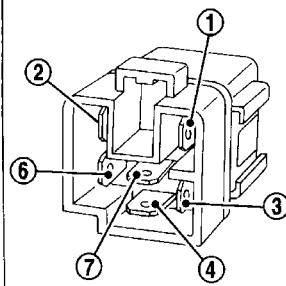
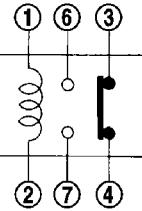
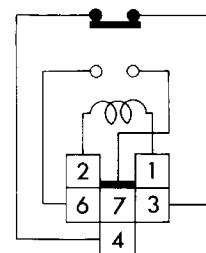
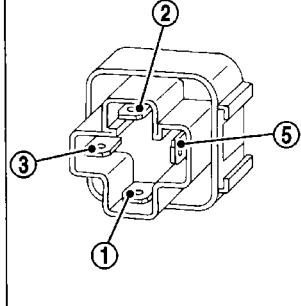
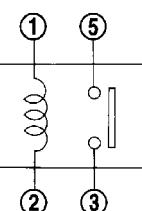
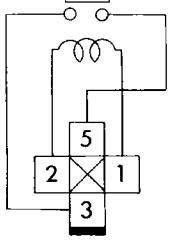
1T 1 Transfer

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

A
B
C
D
E
F
G
H
I
J

PG
L
M

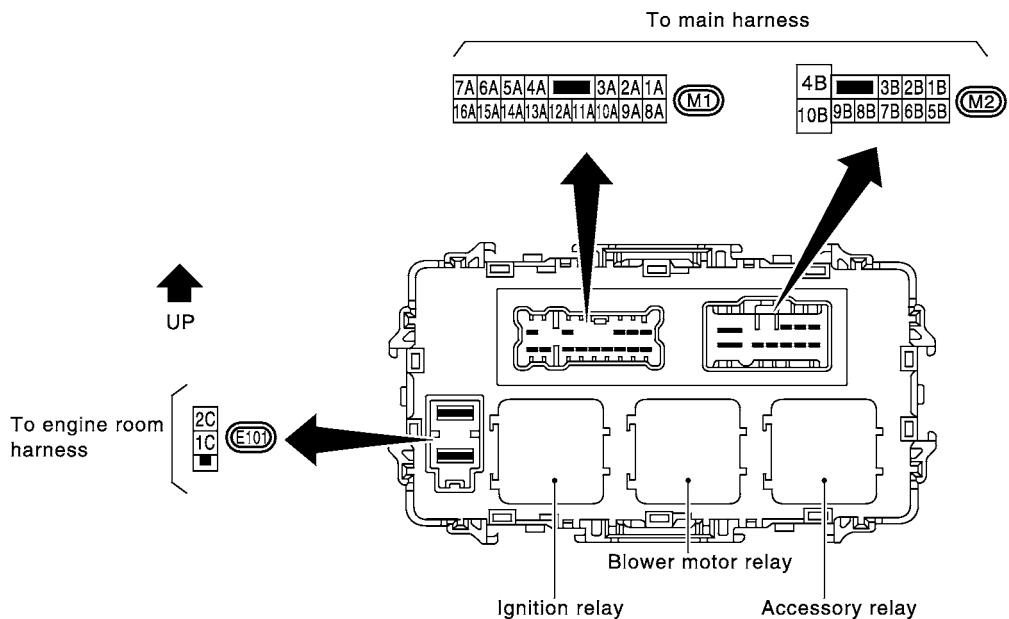
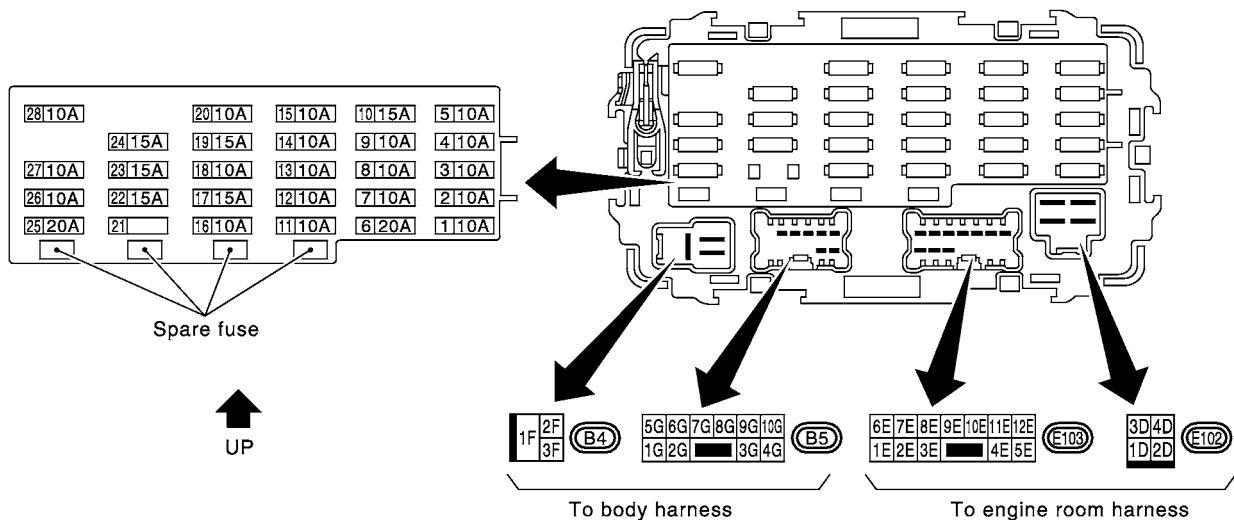
FUSE BLOCK - JUNCTION BOX (J/B)

FUSE BLOCK - JUNCTION BOX (J/B)

PFP:24350

Terminal Arrangement

EKS0032F



CKWA0094E

FUSE AND FUSIBLE LINK BOX

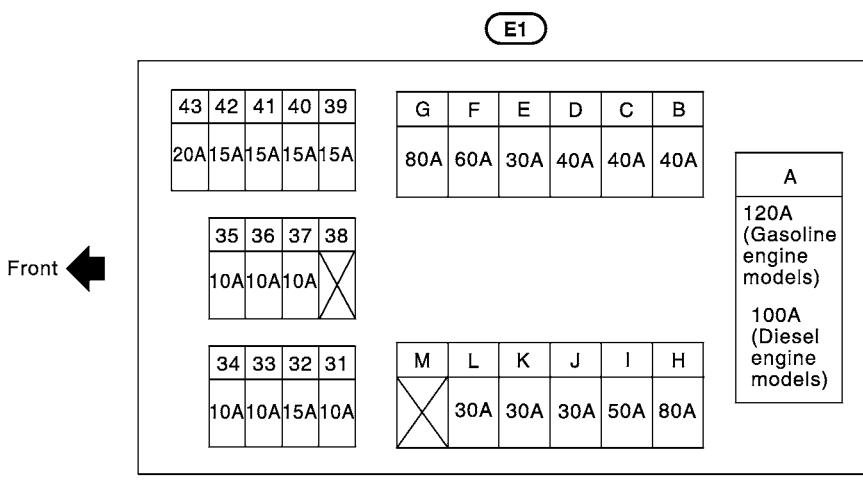
FUSE AND FUSIBLE LINK BOX

PFP:24381

Terminal Arrangement

EKS0032G

SMA for models with roof mounted driving lamp



No. 31 to 43 : FUSE A to M : FUSIBLE LINK

CKWA0095E

J

PG

L

M

FUSE AND FUSIBLE LINK BOX
