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POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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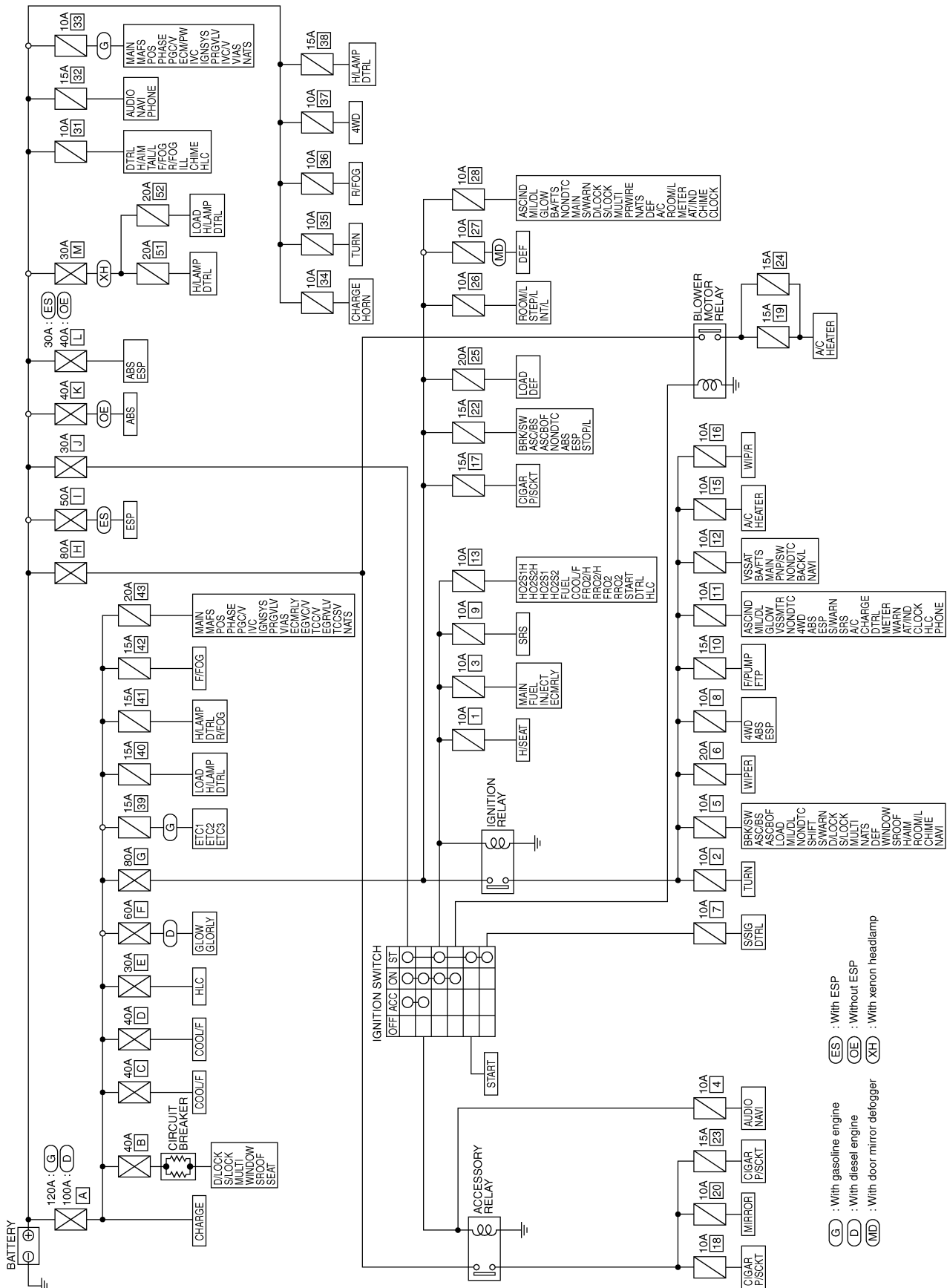
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## POWER SUPPLY ROUTING

## Schematic

EKS00322

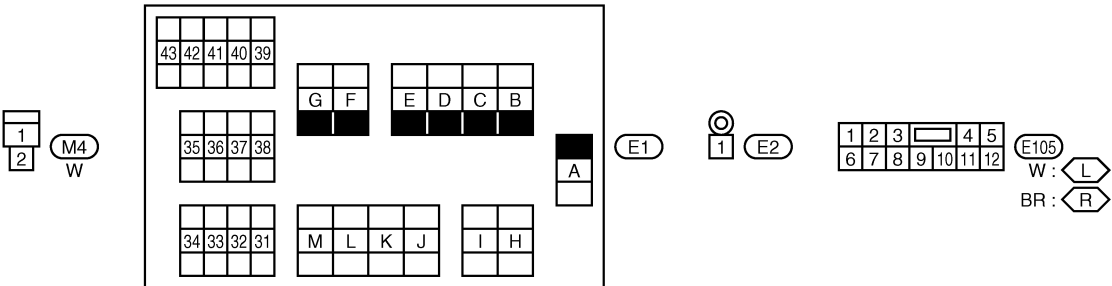
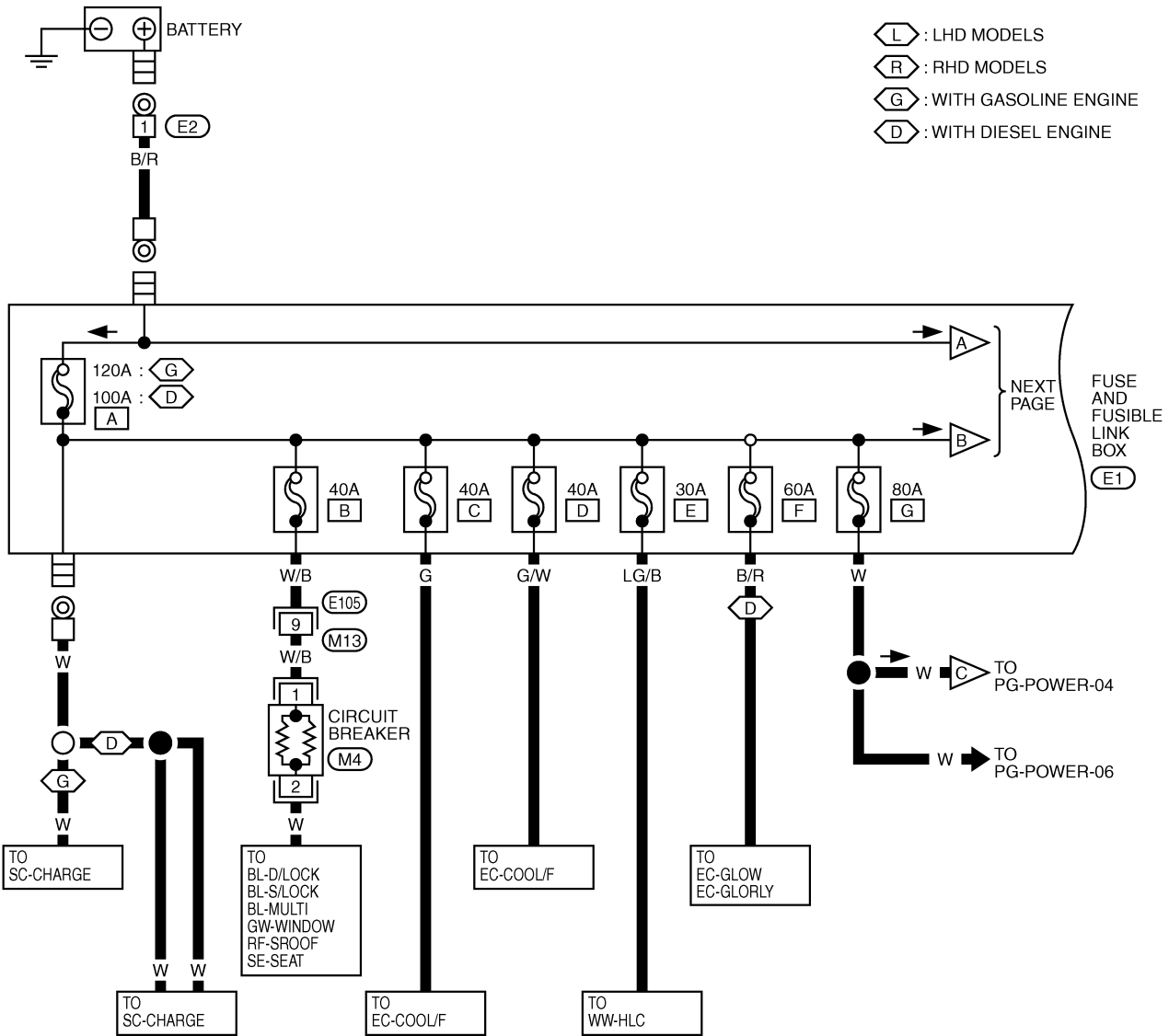


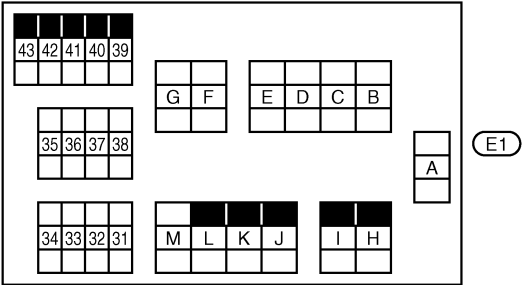
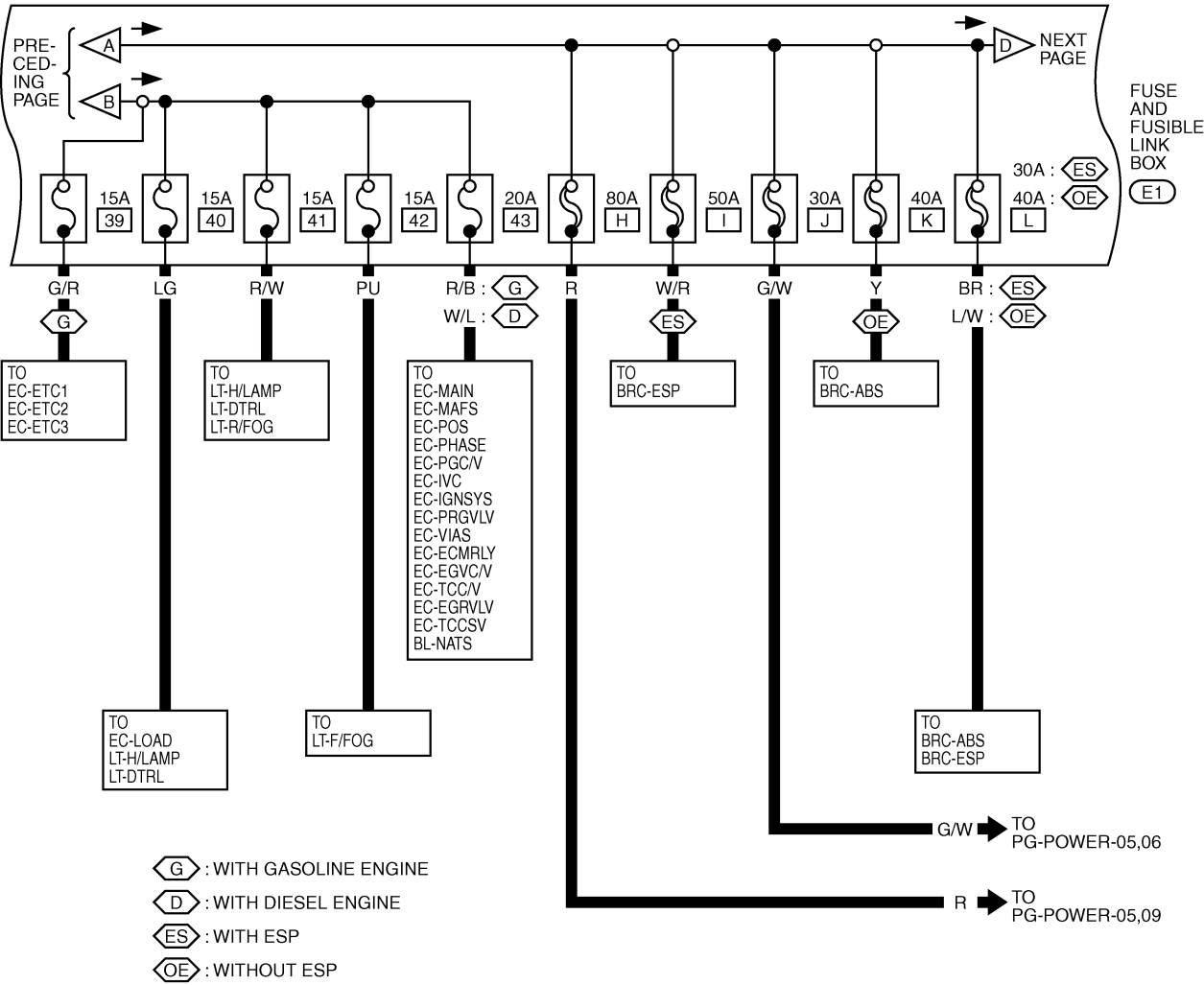
POWER SUPPLY ROUTING

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

EKS00323

PG-POWER-01

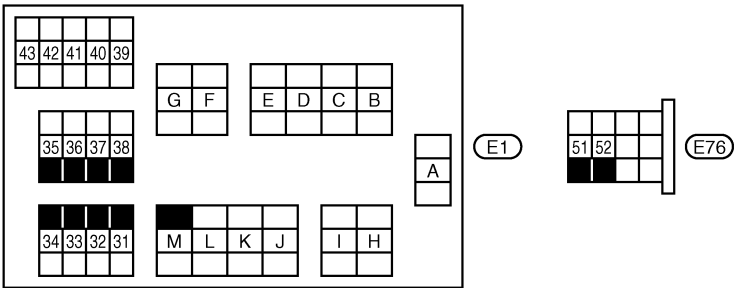
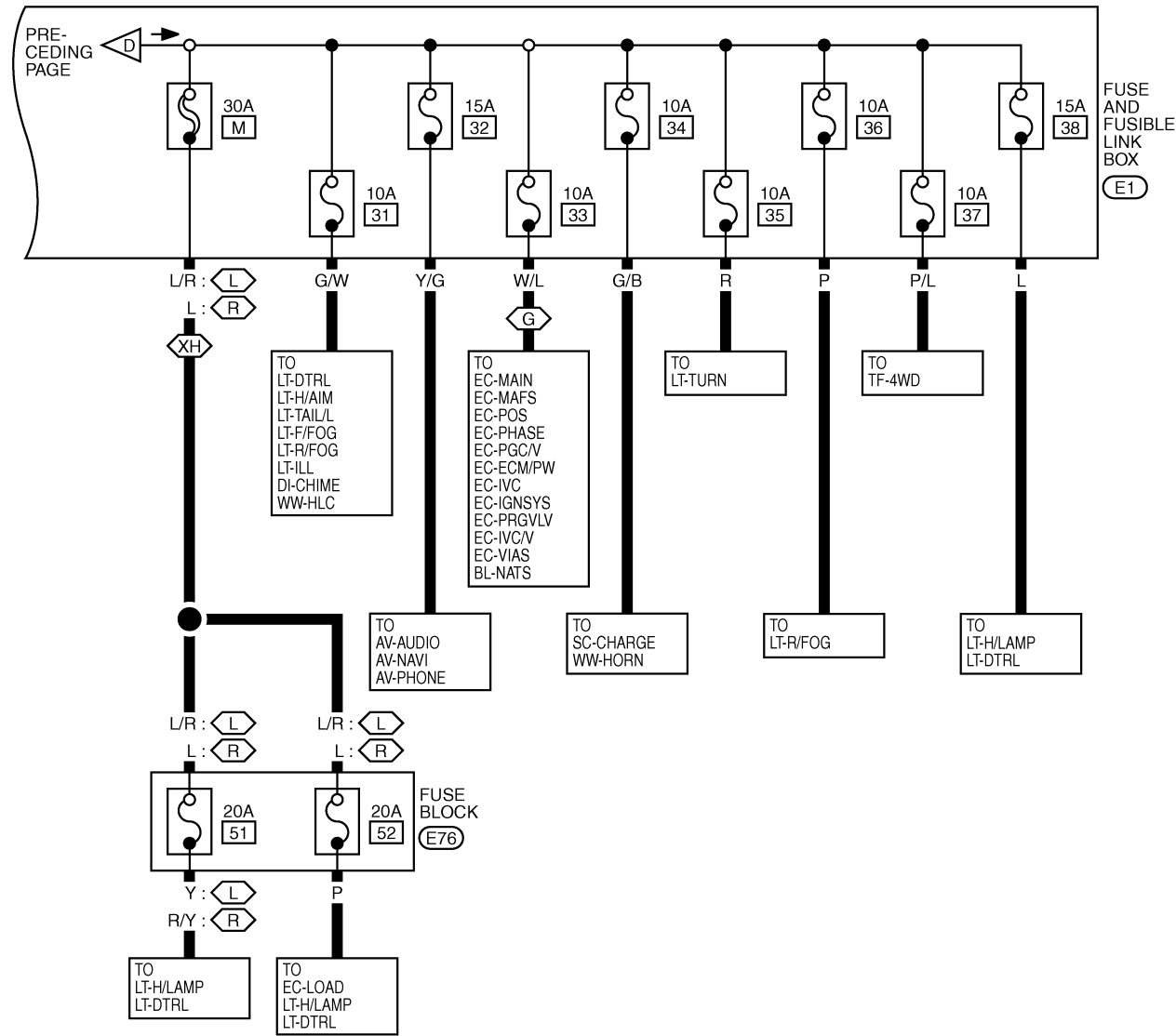




POWER SUPPLY ROUTING

PG-POWER-03

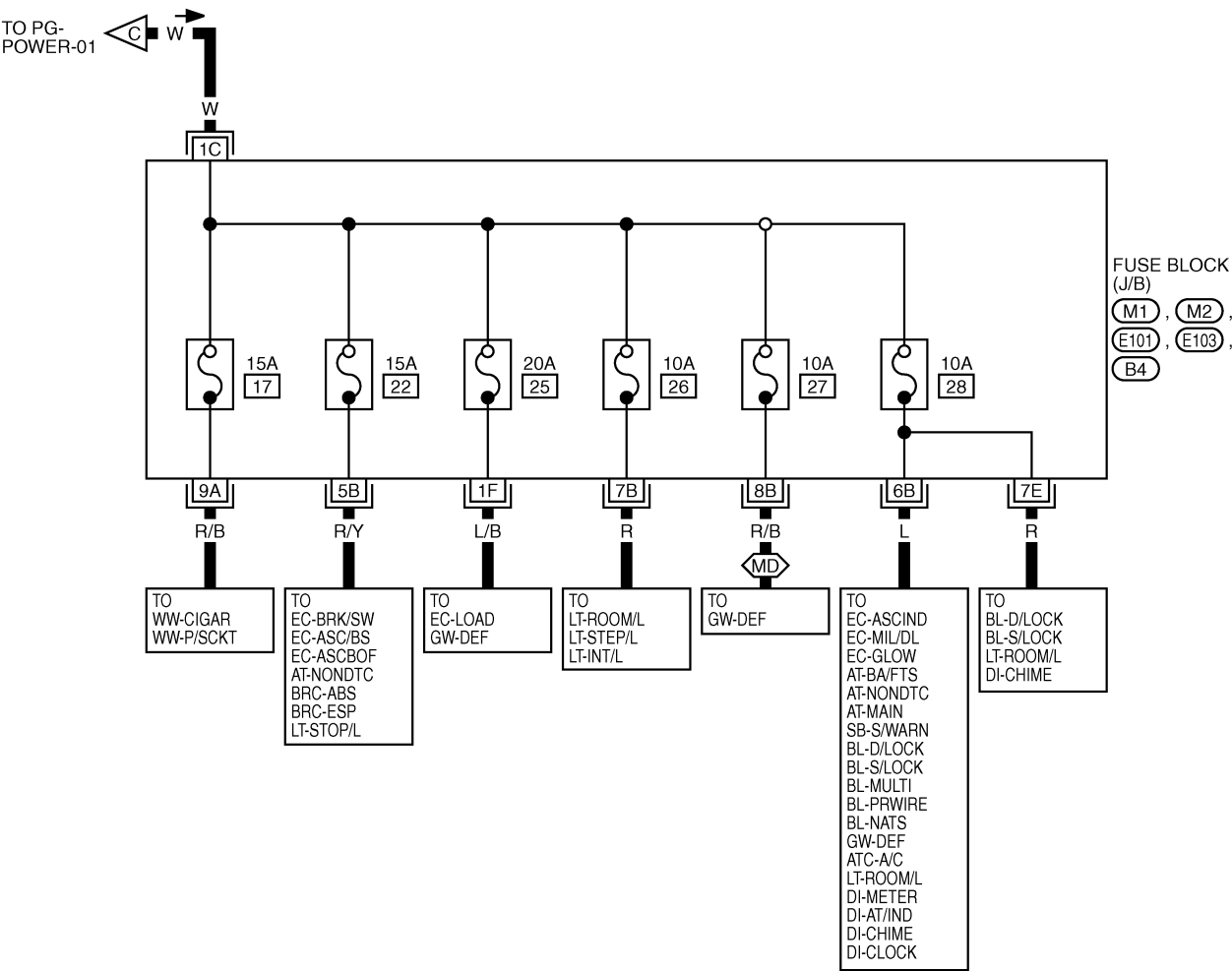
- G : WITH GASOLINE ENGINE
- L : LHD MODELS
- R : RHD MODELS
- XH : WITH XENON HEADLAMP



POWER SUPPLY ROUTING

PG-POWER-04

MD : WITH DOOR MIRROR DEFOGGER



REFER TO THE FOLLOWING.

M1, M2, E101, E103, B4 -FUSE BLOCK-JUNCTION BOX (J/B)

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

UP



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## PG-POWER-05



REFER TO THE FOLLOWING.

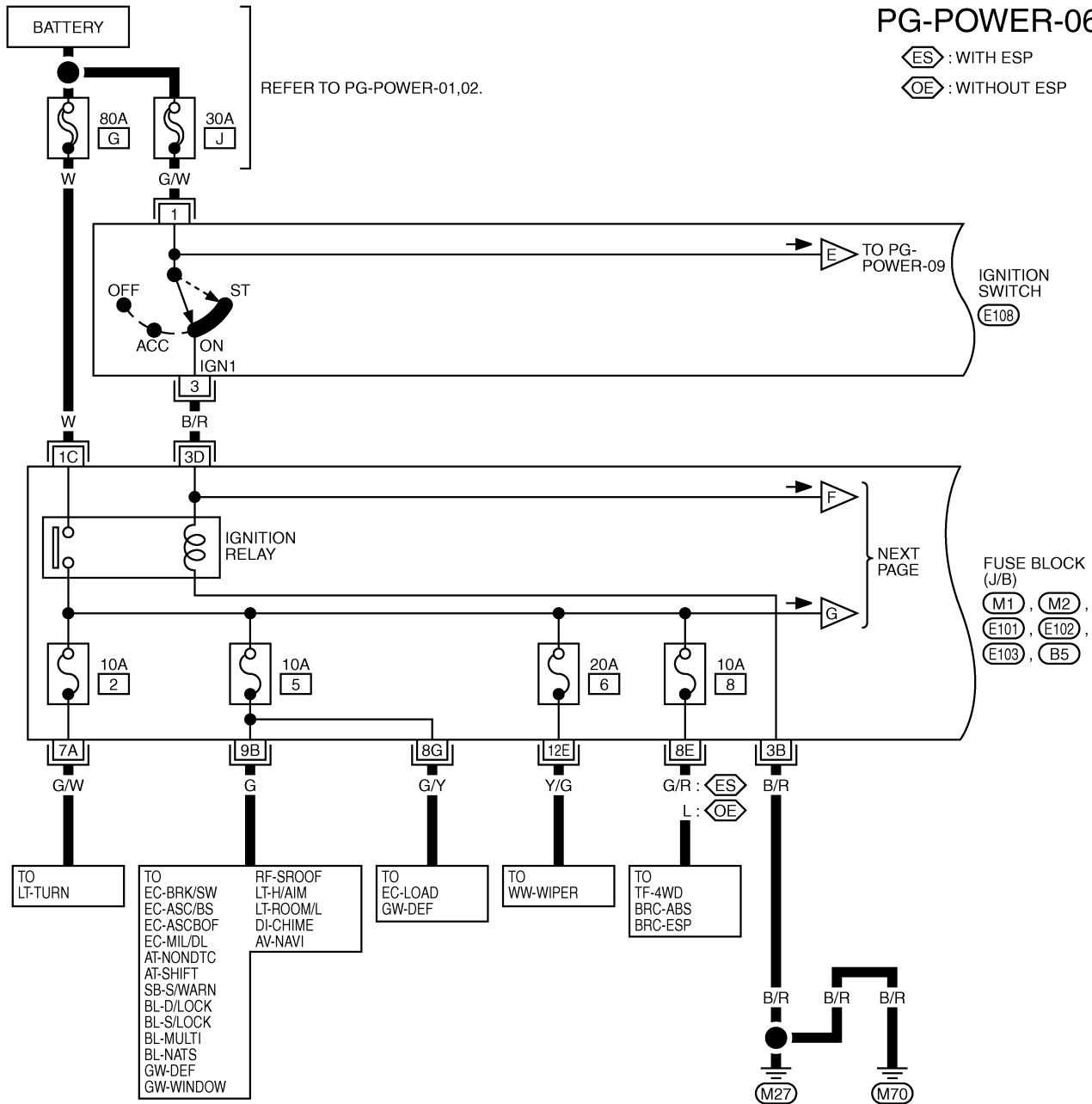
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POWER SUPPLY ROUTING

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

PG-POWER-06

ES : WITH ESP  
OE : WITHOUT ESP



3	5	1
4	2	6

E108  
W

REFER TO THE FOLLOWING.


M1	M2	E101	E102	E103	B5
----	----	------	------	------	----

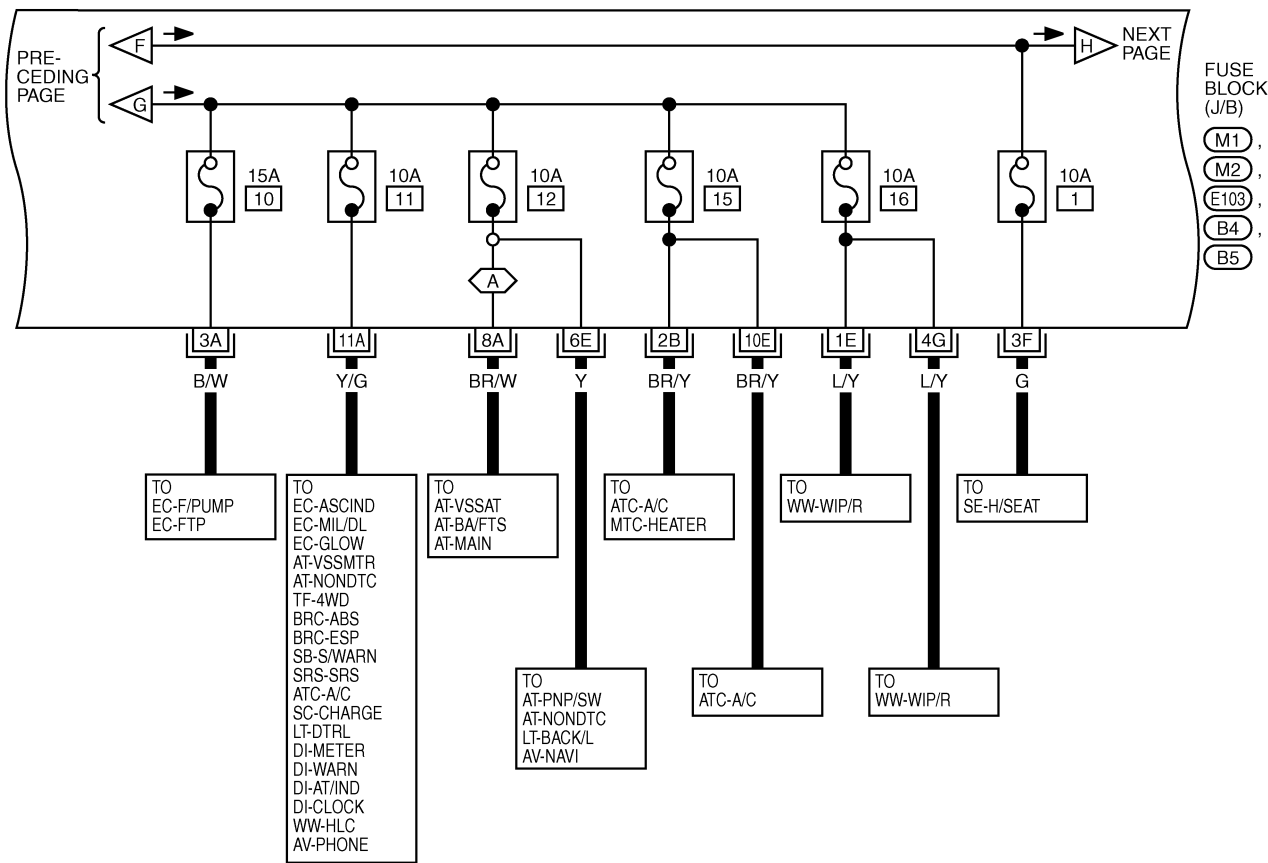
-FUSE BLOCK-JUNCTION BOX (J/B)

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

UP



 : WITH A/T



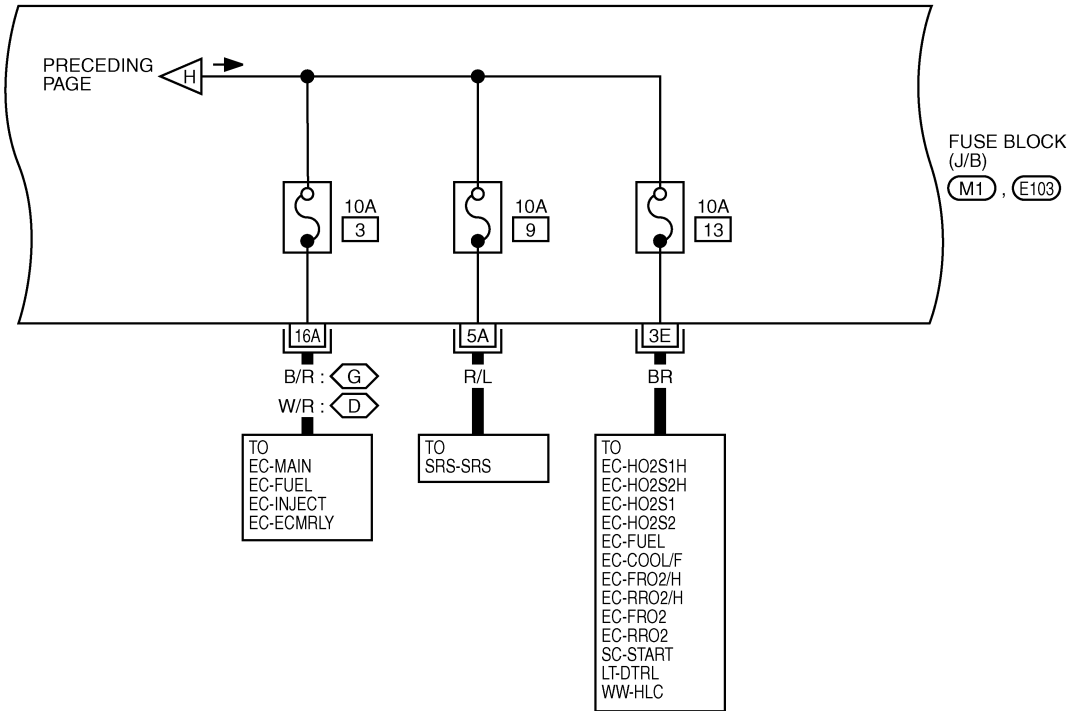
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REFER TO THE FOLLOWING.

M1 , M2 , E103 , B4 , B5 -FUSE BLOCK-JUNCTION BOX (J/B)				
28	24	20	15	10
27	23	19	14	9
26	22	18	13	8
25	21	17	12	7
		16	11	6
				5
				4
				3
				2
				1

UP

G : WITH GASOLINE ENGINE  
D : WITH DIESEL ENGINE



REFER TO THE FOLLOWING.

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

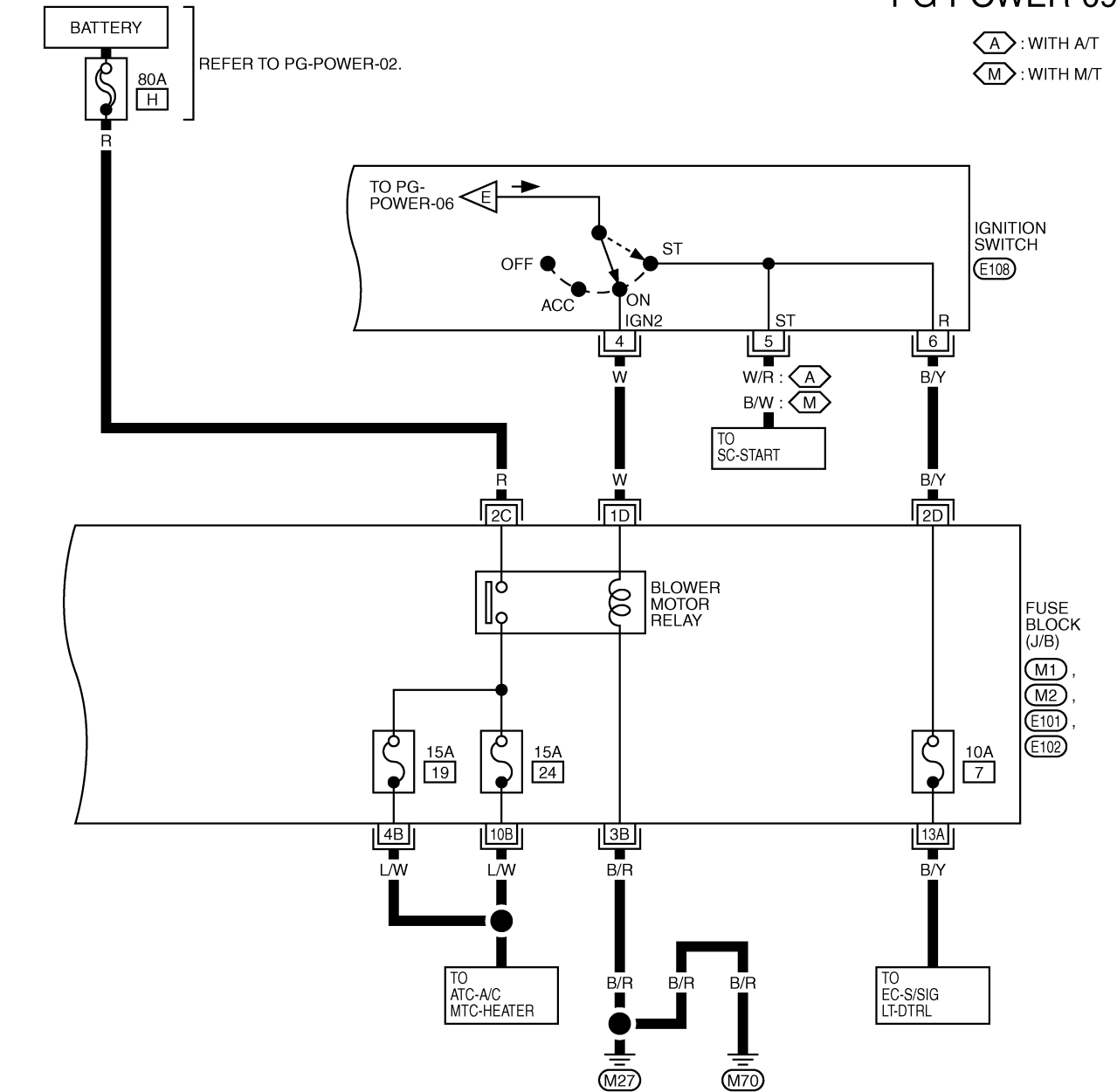
28		20	15	10	5
	24	19	14	9	4
27	23	18	13	8	3
26	22	17	12	7	2
25	21	16	11	6	1

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)

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

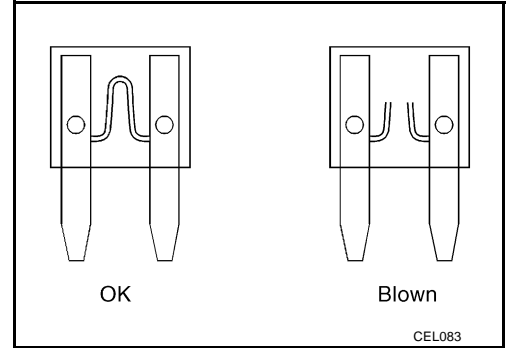
UP

# POWER SUPPLY ROUTING

## Fuse

EKS00324

- If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.
- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for “ELECTRICAL PARTS (BAT)” if vehicle is not used for a long period of time.



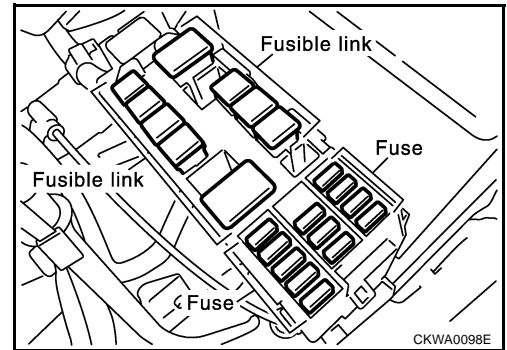
## Fusible Link

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:

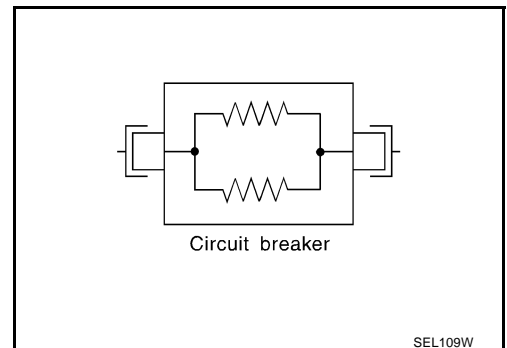
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other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



## Circuit Breaker

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.

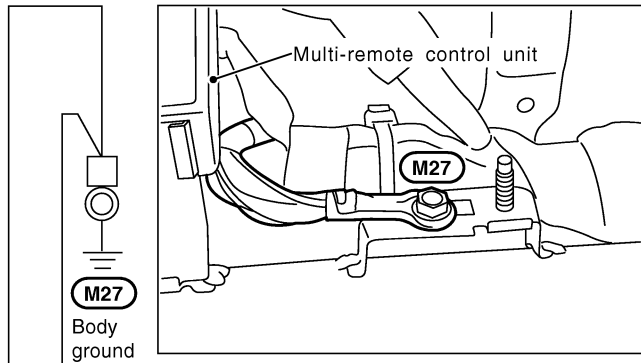


## GROUND

PFP:00011

Ground Distribution  
MAIN HARNESS/LHD MODELS

EKS0032H



CON- NECTOR NUMBER	CONNECT TO
M2	Fuse block (J/B) (Terminal No. 3B) • Accessory relay • Ignition relay • Blower relay
M3	Power window relay
M5	Data link connector (Terminal No. 4)
M5	Data link connector (Terminal No. 5)
M23	Headlamp washer switch (Terminal No. 1) (With headlamp washer)
M23	Headlamp washer switch (Terminal No. 3) (With headlamp washer)
M24	Headlamp aiming switch (Terminal No. 1) (Without xenon headlamp)
M24	Headlamp aiming switch (Terminal No. 4) (Without xenon headlamp)
M25	ESP off switch (Terminal No. 2) (With ESP)
M25	ESP off switch (Terminal No. 4) (With ESP)
M30	Time control unit
M32	Combination flasher unit
M33	Multi-remote control unit
M39	4WD mode switch (Terminal No. 4)
M39	4WD mode switch (Terminal No. 6)
M44	Combination meter (Terminal No. 19) • High beam indicator
M54	Fan switch (Without auto A/C)
M67	Fan control amp. (With auto A/C)
M59	Air bag diagnosis sensor unit (Terminal No. 2)
M81	Steering angle sensor (With ESP)
M101	Driving lamp switch
M107	4WD control unit (Terminal No. 10)
M107	4WD control unit (Terminal No. 11)
M116	NAVI control unit (Terminal No. 1) (With NAVI)
M116	NAVI control unit (Terminal No. 4) (With NAVI)
M119	Driver pocket lamp

# GROUND

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M22 D2

Front door harness LH

CON- NECTOR NUMBER	CONNECT TO
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)

CON- NECTOR NUMBER	CONNECT TO
M111	Transfer unit (Terminal No. 25) (With NAVI)
M111	Transfer unit (Terminal No. 27) (With NAVI)
M112	Display (Terminal No. 22) (With NAVI)
M112	Display (Terminal No. 24) (With NAVI)
M113	NAVI switch (With NAVI)

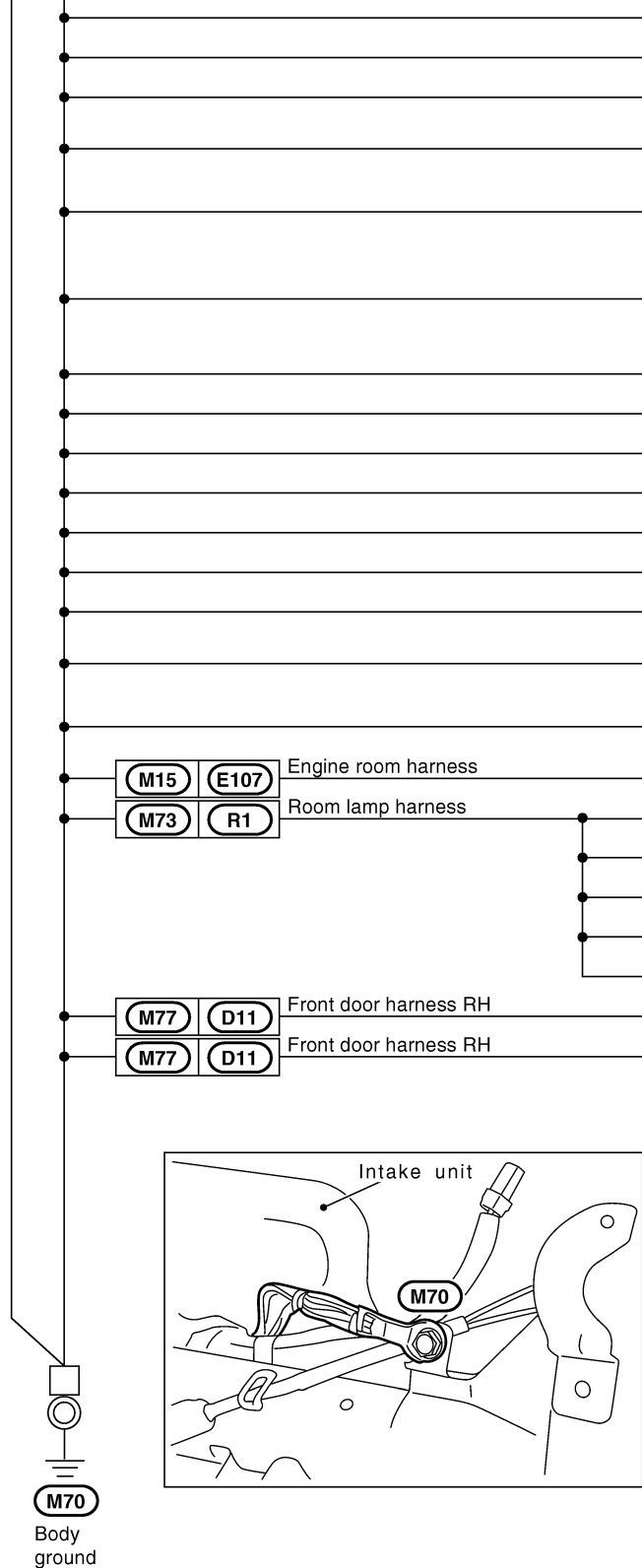
CON- NECTOR NUMBER	CONNECT TO
M8	Cigarette lighter relay (Without front power socket) (Center console)
M26	Door mirror remote control switch
M35	Front power socket (Driver box)
M37	Mode door motor (With auto A/C)
M38	Airmix door motor (With auto A/C)
M44	Combination meter (Terminal No. 21) • CPU
M45	Combination meter (Terminal No. 46) • ESP off warning lamp • SLIP warning lamp
M45	Combination meter (Terminal No. 63) • Meter illumination • Odo/trip meter illumination
M45	Combination meter (Terminal No. 64) • Turn signal • Front fog • Rear fog
M47	Intake door motor (With auto A/C)
M50	Rear window defogger switch (Terminal No. 2) (Without auto A/C)
M50	Rear window defogger switch (Terminal No. 4) (Without auto A/C)
M50	Rear window defogger switch (Terminal No. 6) (Without auto A/C)

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# GROUND

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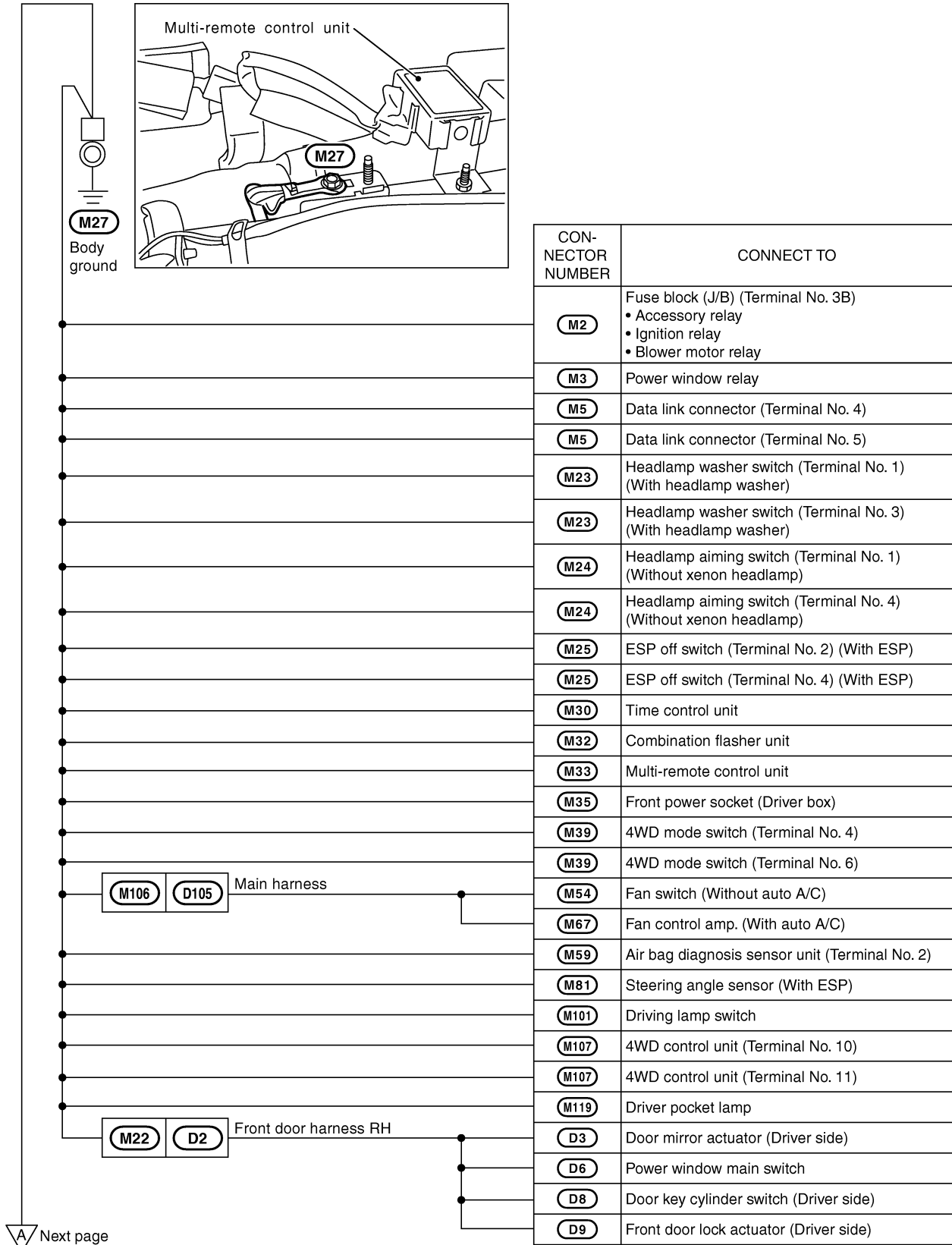
CON- NECTOR NUMBER	CONNECT TO
<b>M51</b>	Hazard switch
<b>M52</b>	A/C auto amp. (Terminal No. 3) (With auto A/C)
<b>M52</b>	A/C auto amp. (Terminal No. 11) (With auto A/C)
<b>M55</b>	Heater control panel (Terminal No. 5) (Without auto A/C)
<b>M55</b>	Heater control panel (Terminal No. 6) (Without auto A/C)
<b>M56</b>	Cigarette lighter socket and ashtray illumination <ul style="list-style-type: none"> <li>• Cigarette lighter</li> <li>• Illumination</li> <li>• Ashtray 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>M118</b>	ECM (Terminal No. 114) (With diesel engine)
<b>M118</b>	ECM (Terminal No. 115) (With gasoline engine)
<b>M118</b>	ECM (Terminal No. 116) (With gasoline engine)
<b>M120</b>	Option connector for telephone
<b>M125</b>	Front power socket relay (Without cigarette lighter)
<b>M126</b>	Front power socket (Center console) (Without cigarette lighter)
<b>E109</b>	NATS IMMU
<b>R2</b>	Map lamp (Without sunroof)
<b>R3</b>	Sunroof switch
<b>R11</b>	Map lamp (With sunroof)
<b>R12</b>	Read lamp LH
<b>R13</b>	Read lamp RH
<b>D14</b>	Door mirror actuator (Passenger side)
<b>D17</b>	Front door lock actuator (Passenger side)

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# GROUND

## MAIN HARNESS/RHD MODELS



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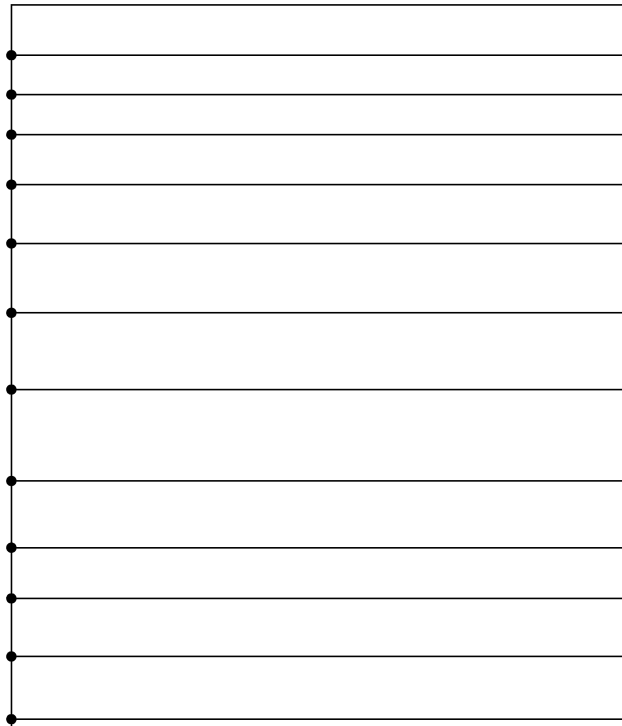
# GROUND

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CON- NECTOR NUMBER	CONNECT TO
M111	Transfer unit (Terminal No. 25) (With NAVI)
M111	Transfer unit (Terminal No. 27) (With NAVI)
M112	Display (Terminal No. 2) (With NAVI)
M112	Display (Terminal No. 24) (With NAVI)
M113	NAVI switch (With NAVI)
M116	NAVI control unit (Terminal No. 1) (With NAVI)
M116	NAVI control unit (Terminal No. 4) (With NAVI)

B C Next page

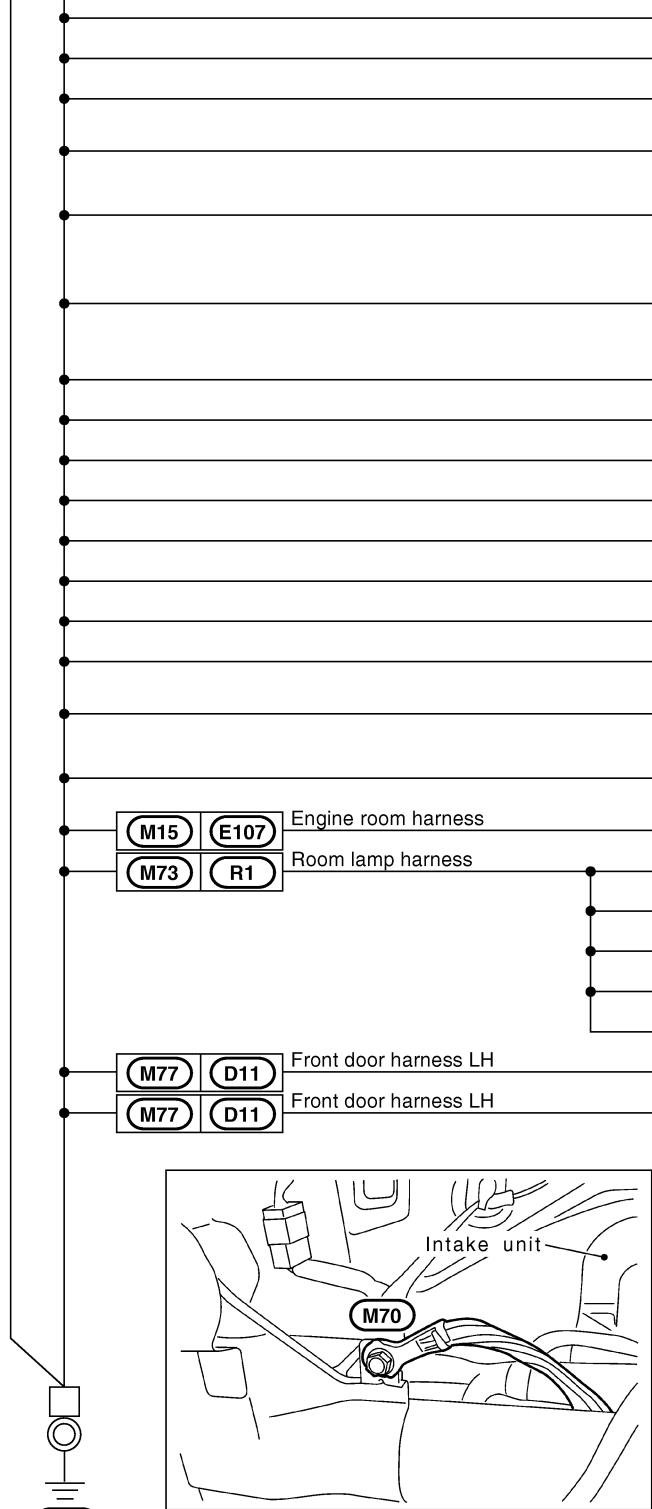


CON- NECTOR NUMBER	CONNECT TO
M8	Cigarette lighter relay (Without front power socket) (Center console)
M26	Door mirror remote control switch
M37	Mode door motor (With auto A/C)
M38	Air mix door motor (With auto A/C)
M44	Combination meter (Terminal No. 19) • High beam indicator
M44	Combination meter (Terminal No. 21) • CPU
M45	Combination meter (Terminal No. 46) • ESP off warning lamp • SLIP warning lamp
M45	Combination meter (Terminal No. 63) • Meter illumination • Odo/trip meter illumination
M45	Combination meter (Terminal No. 64) • Turn signal • Front fog • Rear fog
M47	Intake door motor (With auto A/C)
M50	Rear window defogger switch (Terminal No. 2) (Without auto A/C)
M50	Rear window defogger switch (Terminal No. 4) (Without auto A/C)
M50	Rear window defogger switch (Terminal No. 6) (Without auto A/C)

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# GROUND

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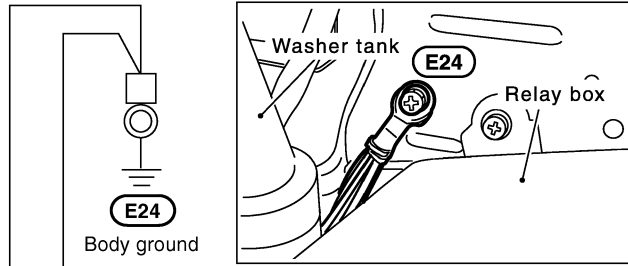
M70  
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ground

CON- NECTOR NUMBER	CONNECT TO
M51	Hazard switch
M52	A/C auto amp. (Terminal No. 3) (With auto A/C)
M52	A/C auto amp. (Terminal No. 11) (With auto A/C)
M55	Heater control panel (Terminal No. 5) (Without auto A/C)
M55	Heater control panel (Terminal No. 6) (Without auto A/C)
M56	Cigarette lighter socket and ashtray illumination <ul style="list-style-type: none"> <li>• Cigarette lighter</li> <li>• Illumination</li> <li>• Ashtray illumination</li> </ul>
M58	A/T device (Terminal No. 2)
M58	A/T device (Terminal No. 4)
M58	A/T device (Terminal No. 6)
M80	Dongle unit
M118	ECM (Terminal No. 114) (With diesel engine)
M118	ECM (Terminal No. 115) (With gasoline engine)
M118	ECM (Terminal No. 116) (With gasoline engine)
M120	Option connector for telephone
M125	Front power socket relay (Without cigarette lighter)
M126	Front power socket (Center console) (Without cigarette lighter)
E109	NATS IMMU
R2	Map lamp (Without sunroof)
R3	Sunroof switch
R11	Map lamp (With sunroof)
R12	Read lamp LH
R13	Read lamp RH
D17	Front door lock actuator (Passenger side)
D14	Door mirror actuator (Passenger side)

CKIB0210E

# GROUND

## ENGINE ROOM HARNESS/LHD MODELS



CON- NECTOR NUMBER	CONNECT TO
(E7)	Front fog lamp relay
(E8)	Headlamp washer timer
(E9)	Cooling fan relay-2 (With diesel engine)
(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
(E44)	Headlamp aiming motor LH
(E45)	Front fog lamp LH
(E46)	Headlamp LH (Without xenon headlamp)
(E79)	Headlamp RH (Terminal No. 3) (With xenon headlamp)
(E79)	Headlamp RH (Terminal No. 4) (With xenon headlamp)
(E129)	Driving lamp relay-2 (Terminal No. 2)
(E129)	Driving lamp relay-2 (Terminal No. 6)

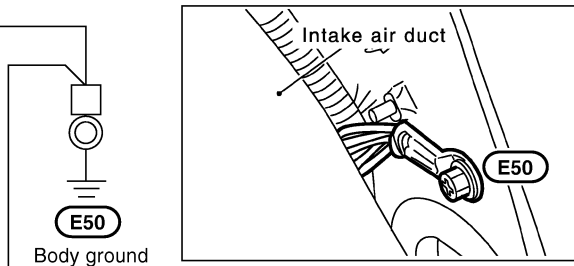
CON- NECTOR NUMBER	CONNECT TO
(E19)	Brake fluid level switch
(E20)	Side turn signal lamp RH
(E25)	Front turn signal lamp RH
(E47)	Front turn signal lamp LH
(E48)	Side turn signal lamp LH
(E77)	HID relay LH (With xenon headlamp)
(E78)	HID relay RH (With xenon headlamp)

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# GROUND

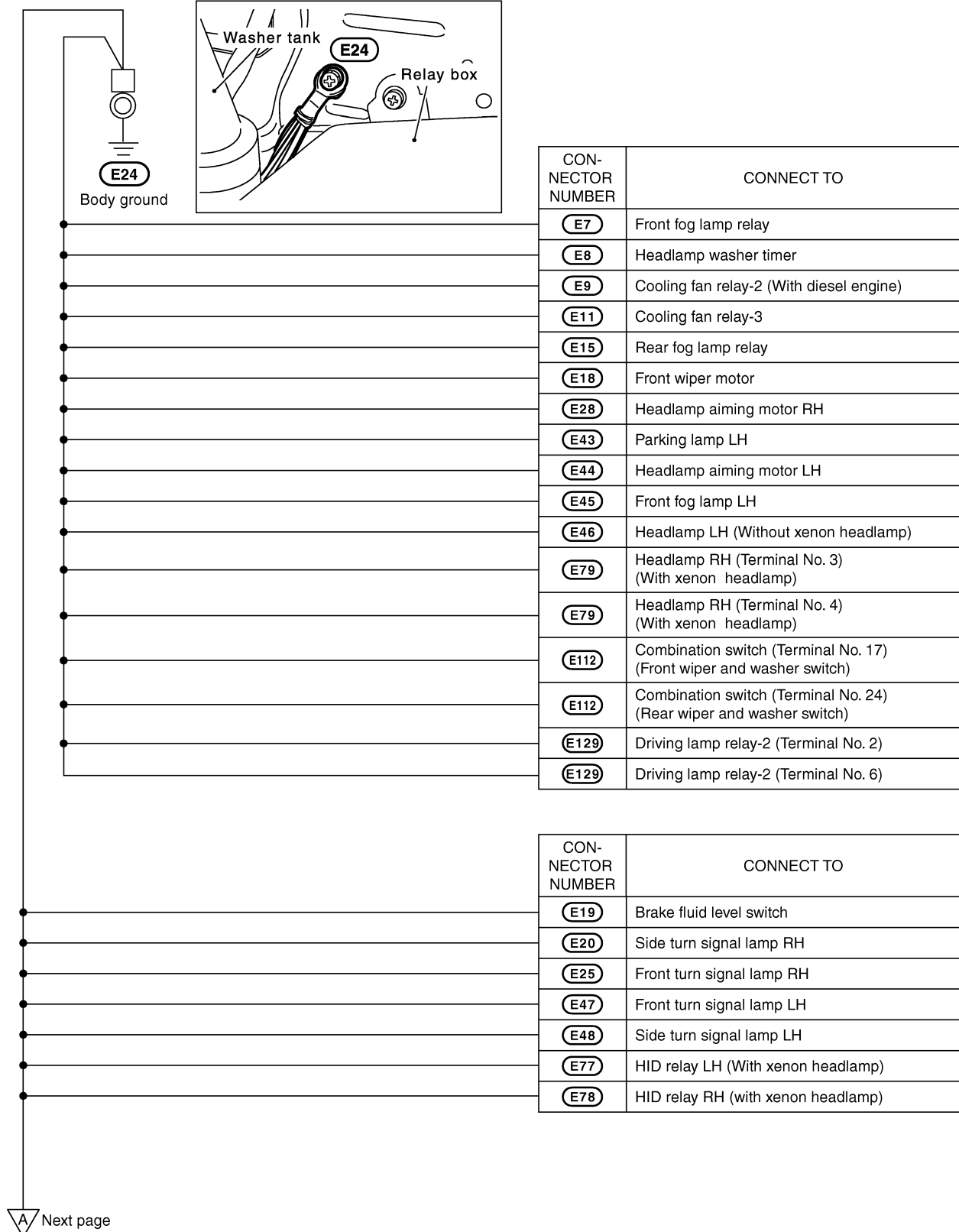
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CON- NECTOR NUMBER	CONNECT TO
E18	Front wiper motor
E26	Headlamp RH (Without xenon headlamp)
E27	Front fog lamp RH
E29	Parking lamp RH
E41	Cooling fan motor-1
E42	Cooling fan motor-2
E54	Option connector for hood switch
E74	Fuel filter switch (With diesel engine)
E80	Headlamp LH (Terminal No. 3) (With xenon headlamp)
E80	Headlamp LH (Terminal No. 4) (With xenon headlamp)
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 (With daytime light system)

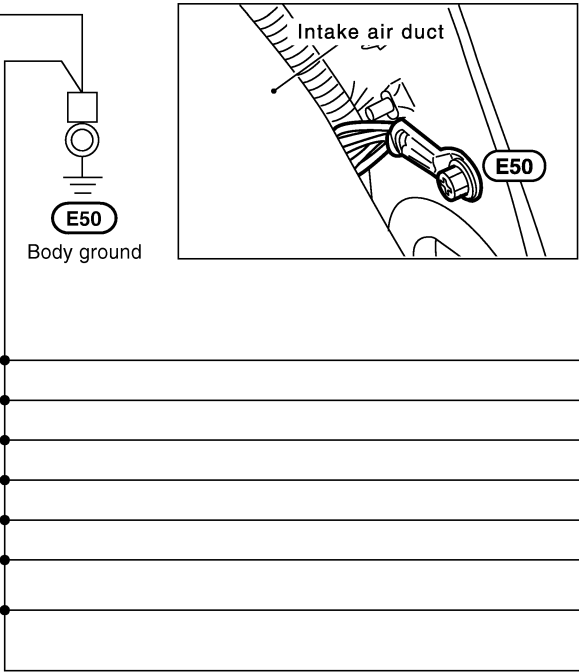
# GROUND

## ENGINE ROOM HARNESS/RHD MODELS



GROUND

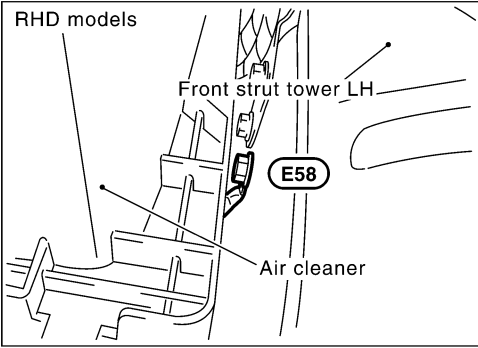
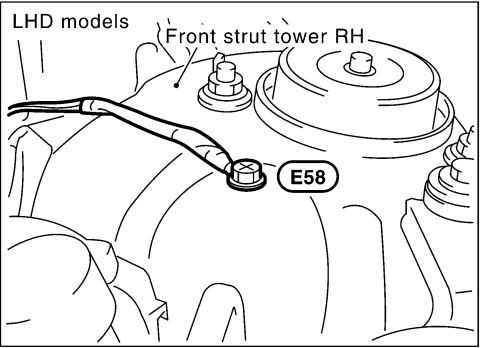
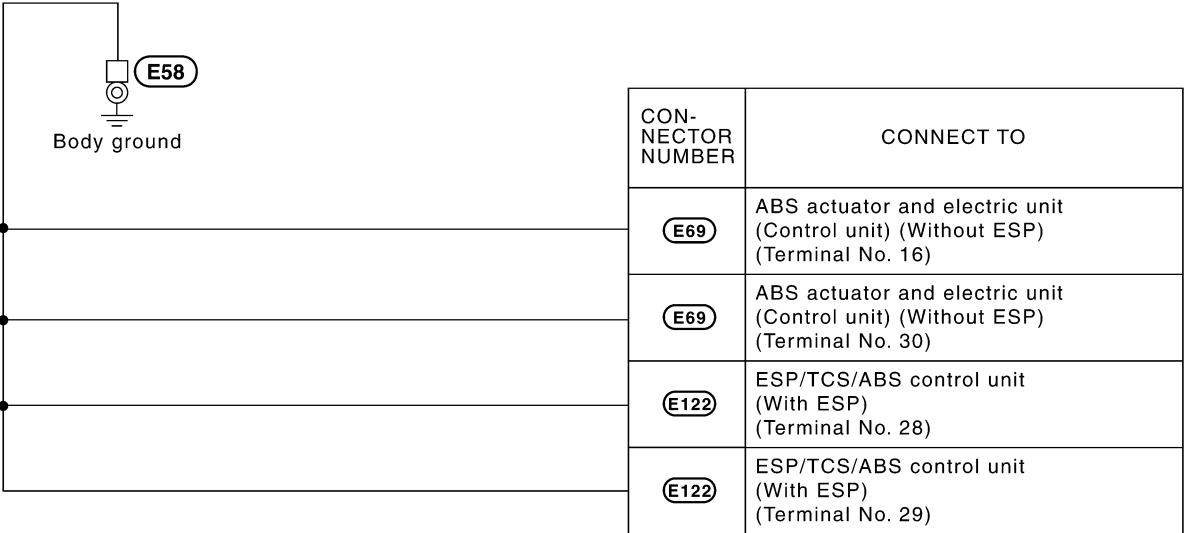
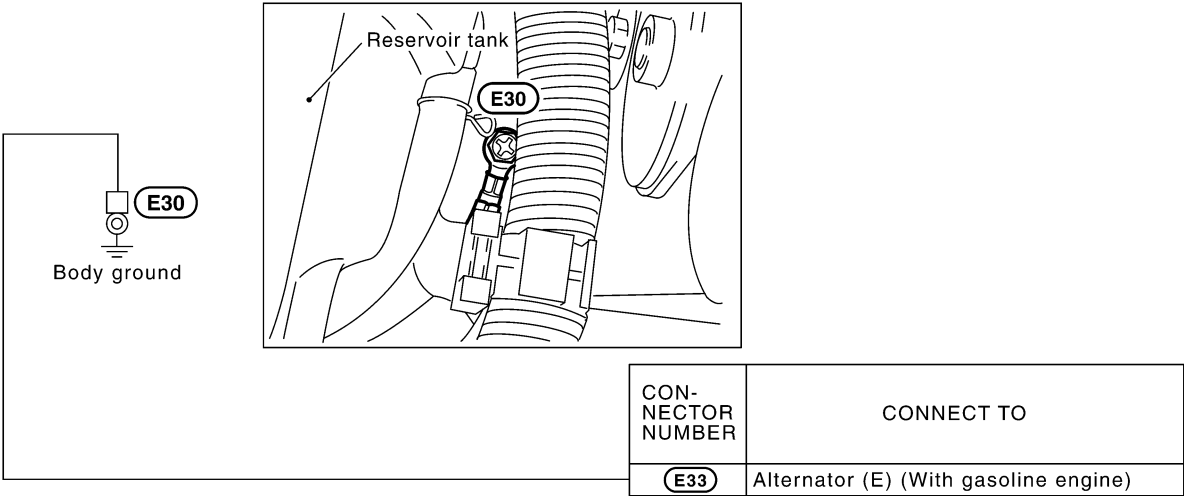
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CON- NECTOR NUMBER	CONNECT TO
E26	Headlamp RH (Without xenon headlamp)
E27	Front fog lamp RH
E29	Parking lamp RH
E41	Cooling fan motor-1
E42	Cooling fan motor-2
E54	Option connector for hood switch
E80	Headlamp LH (Terminal No. 3) (With xenon headlamp)
E80	Headlamp LH (Terminal No. 4) (With xenon headlamp)

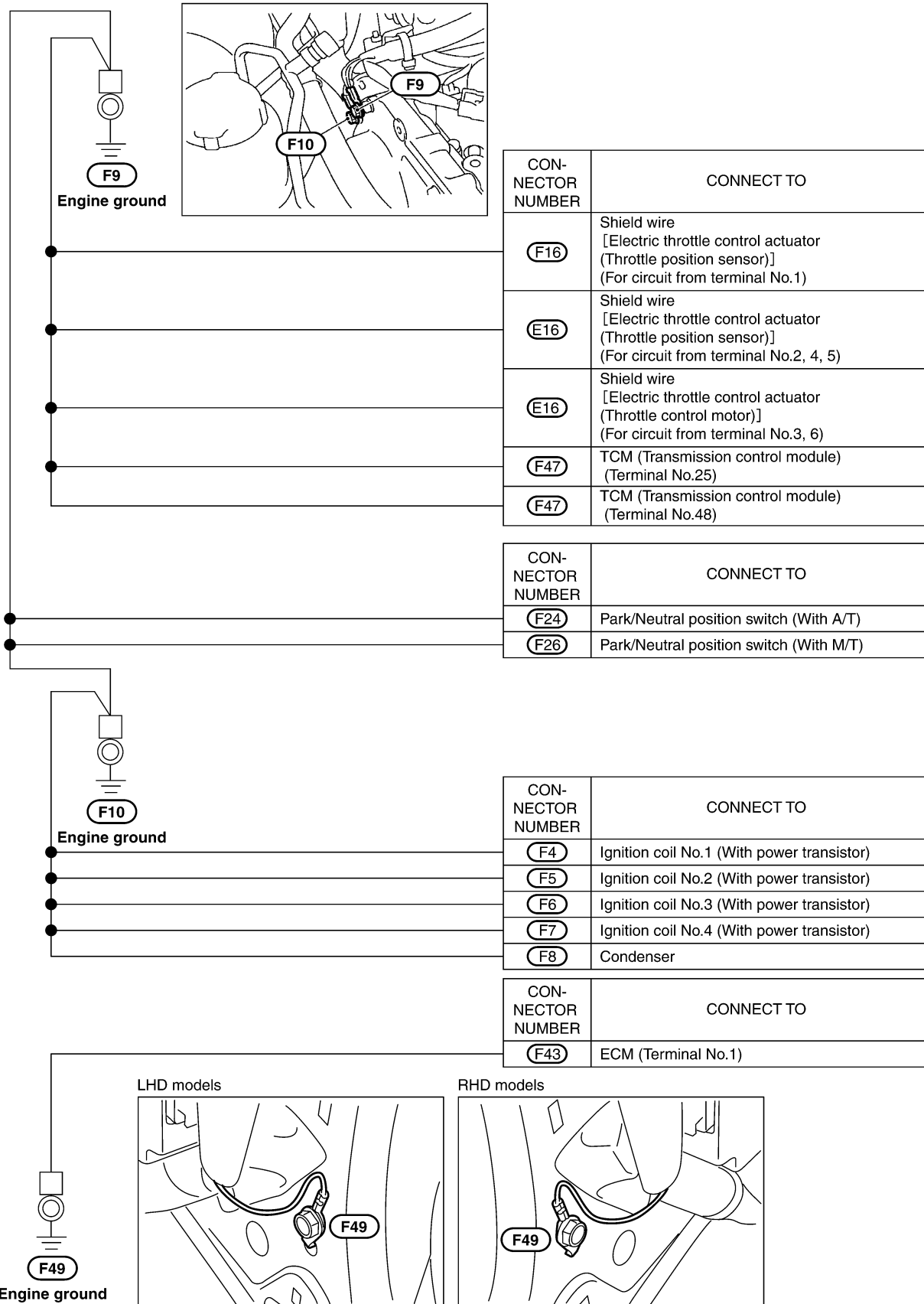
GROUND

ENGINE ROOM HARNESS



# GROUND

## ENGINE CONTROL HARNESS/GASOLINE ENGINE MODELS

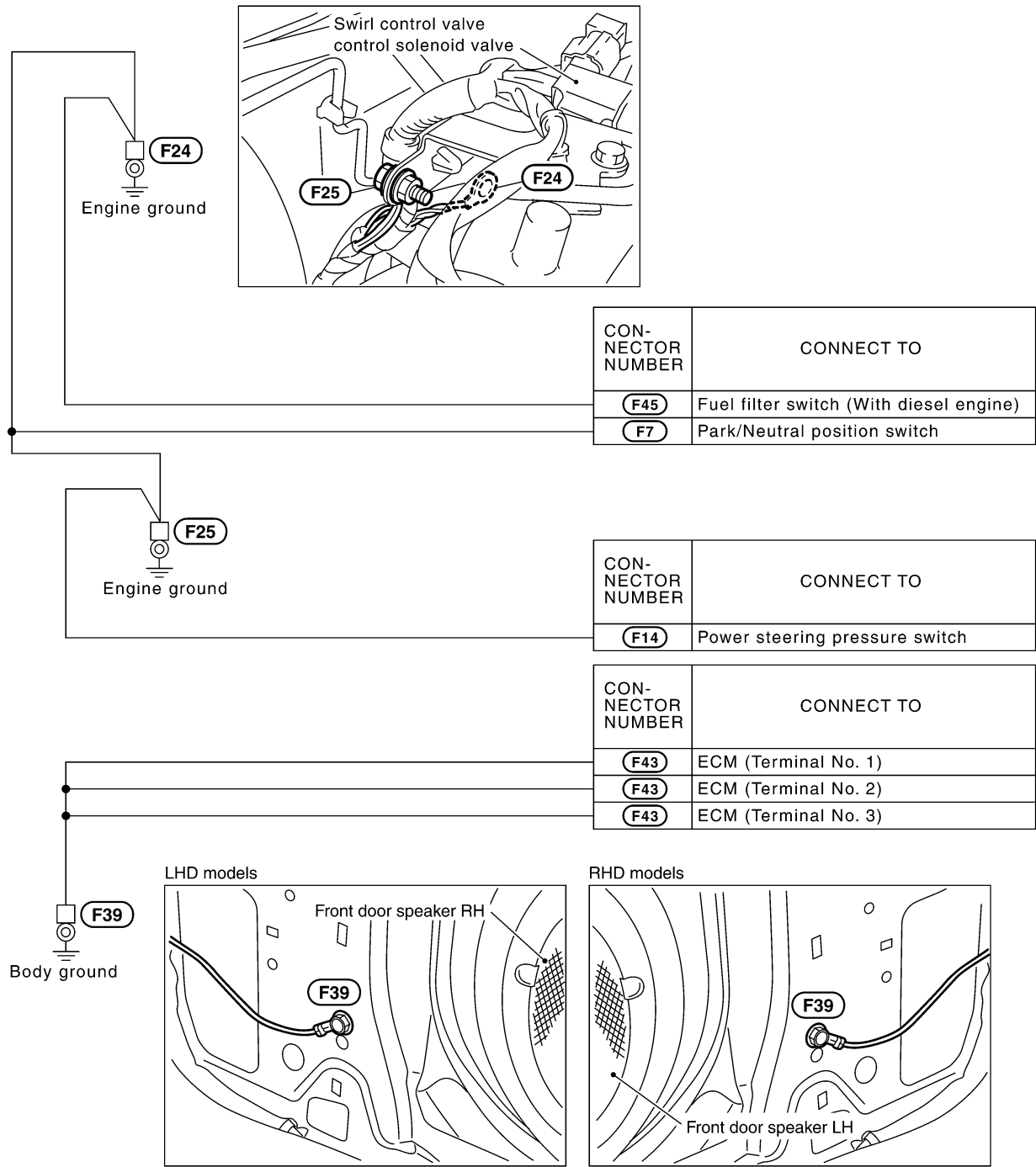


CKIA0370E



GROUND

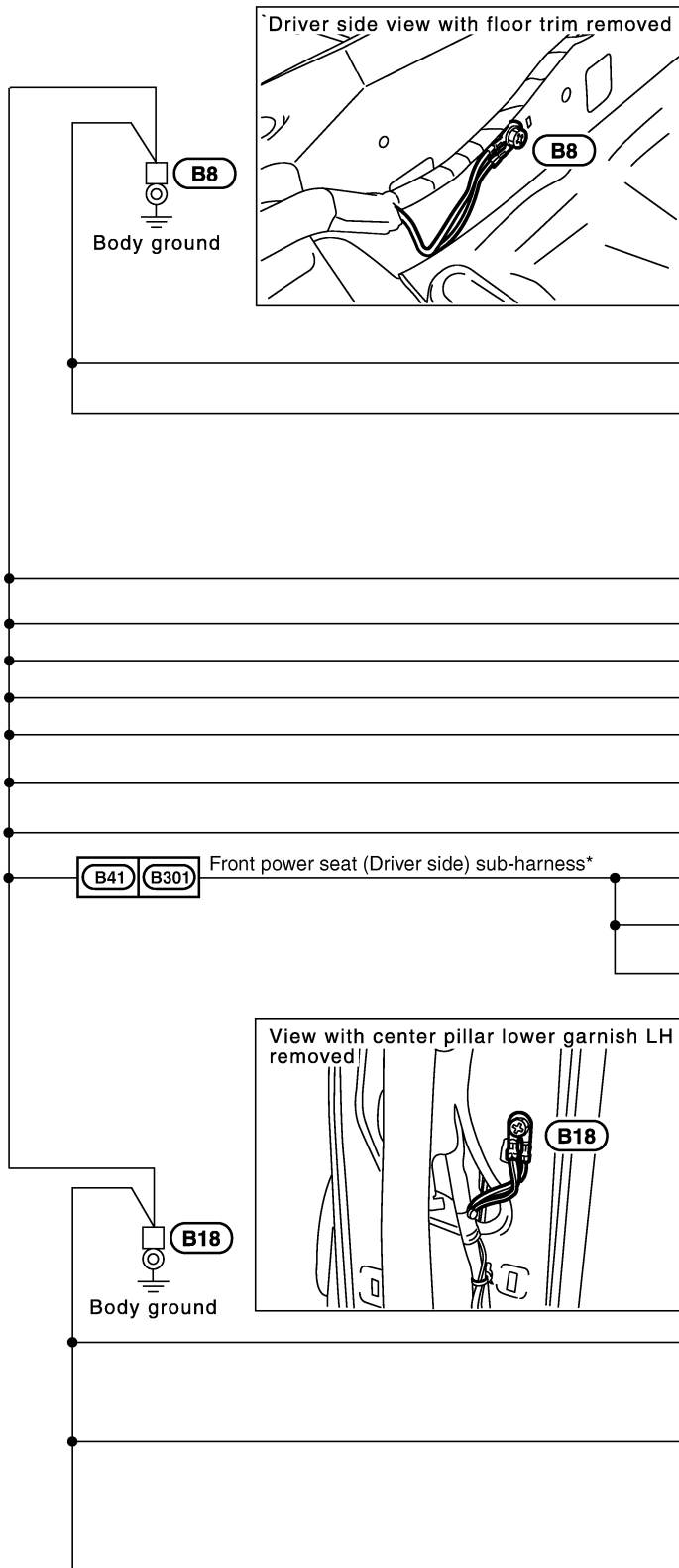
ENGINE CONTROL HARNESS/DIESEL ENGINE MODELS



A  
B  
C  
D  
E  
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H  
I  
J  
PG  
L  
M

# GROUND

## BODY HARNESS/LHD MODELS



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

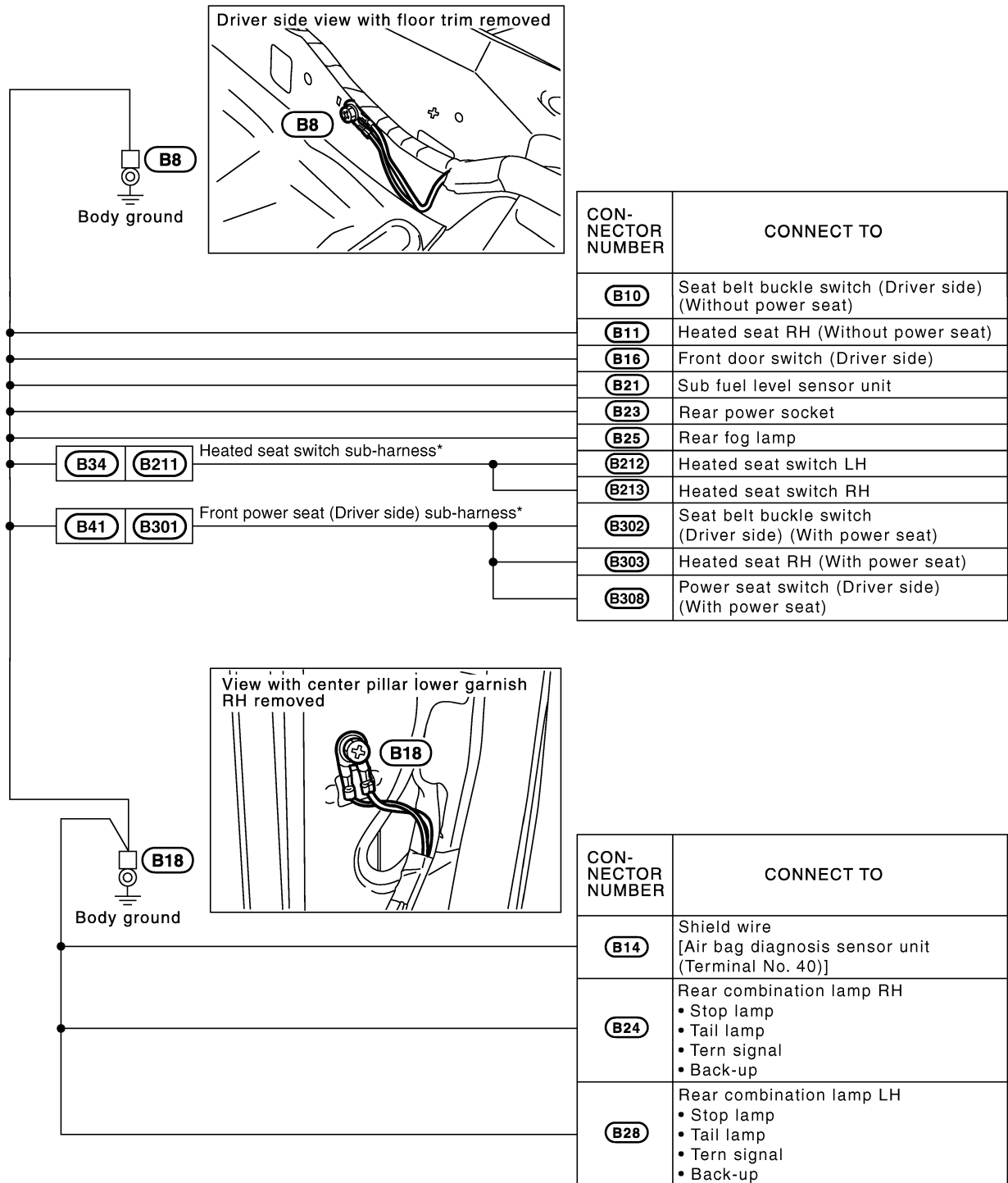
CON- NECTOR NUMBER	CONNECT TO
<b>B10</b>	Seat belt buckle switch (Driver side) (Without power seat)
<b>B11</b>	Heated seat LH (Without power seat)
<b>B16</b>	Front door switch (Driver side)
<b>B23</b>	Rear power socket
<b>B25</b>	Rear fog lamp
<b>B31</b>	Fuel level sensor unit and fuel pump (With gasoline engine)
<b>B33</b>	Condenser (with gasoline engine)
<b>B302</b>	Seat belt buckle switch (Driver side) (With power seat)
<b>B303</b>	Heated seat LH (With power seat)
<b>B308</b>	Power seat switch (Driver side) (With power seat)

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

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

# GROUND

## BODY HARNESS/RHD MODELS

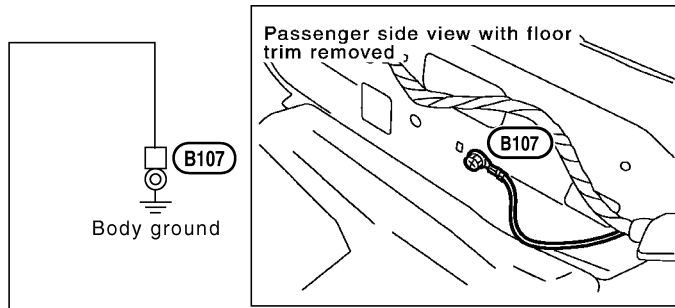


\* : This sub-harness is not shown in "HARNESS LAYOUT".

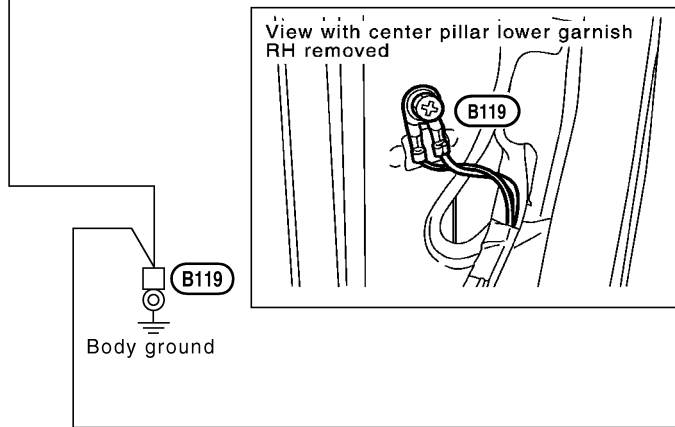
CKIB0236E

# GROUND

## BODY NO. 2 HARNESS/LHD MODELS



CON-NECTOR NUMBER	CONNECT TO
B110	Heated seat RH (Without power seat)
B113	Seat belt buckle switch (Passenger side) (Without power seat)
B125	Sub fuel level sensor unit
B127	Fuel transport pump (With diesel engine)
B162	Height sensor (With xenon headlamp)
B212	Heated seat switch LH
B213	Heated seat switch RH
B352	Seat belt buckle switch (Passenger side) (With power seat)
B353	Heated seat RH (With power seat)
B356	Power seat switch (Passenger side) (With power seat)

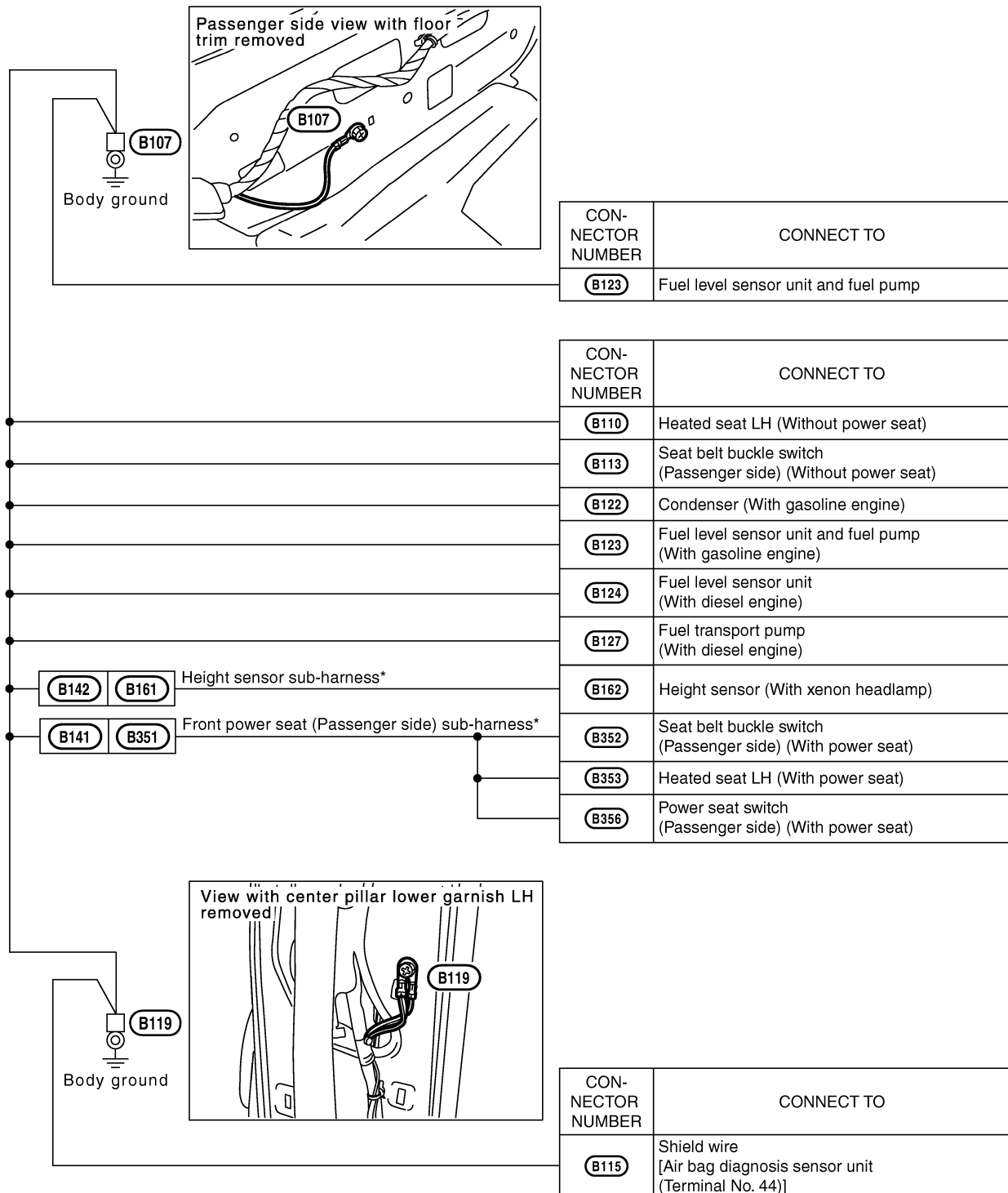


CON-NECTOR NUMBER	CONNECT TO
B115	Shield wire [Air bag diagnosis sensor unit (Terminal No. 40)]

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

# GROUND

## BODY NO. 2 HARNESS/RHD MODELS

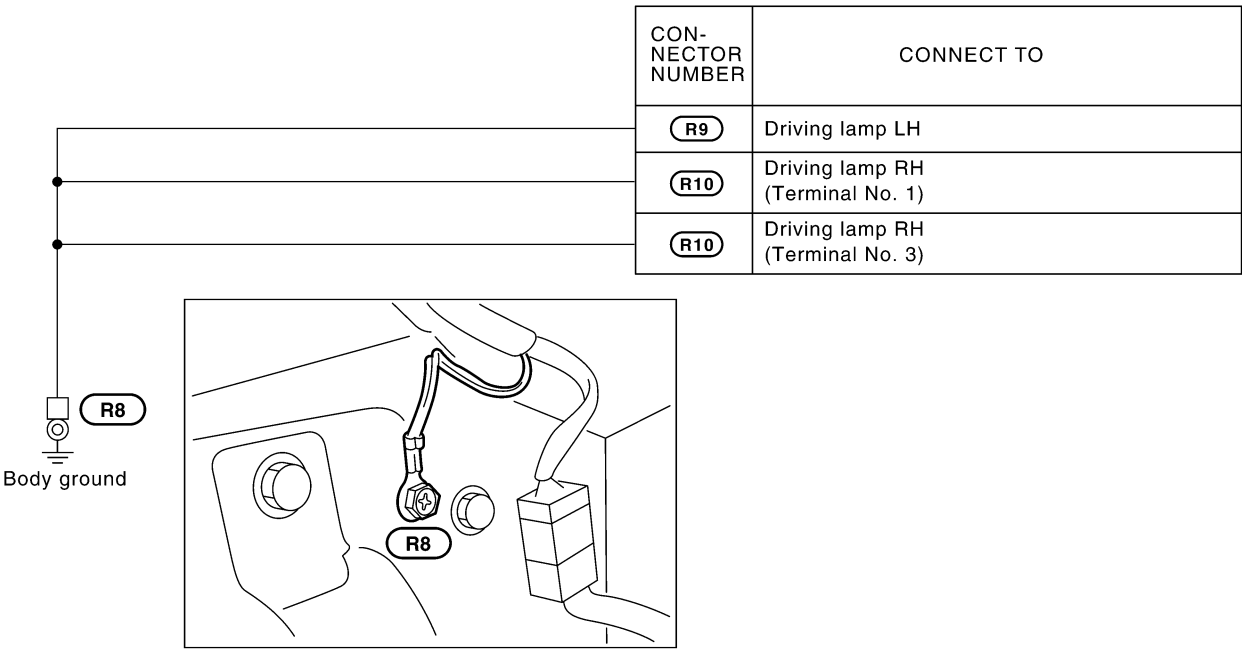


\* : This sub-harness is not shown in "HARNESS LAYOUT".

CKIB0238E

GROUND

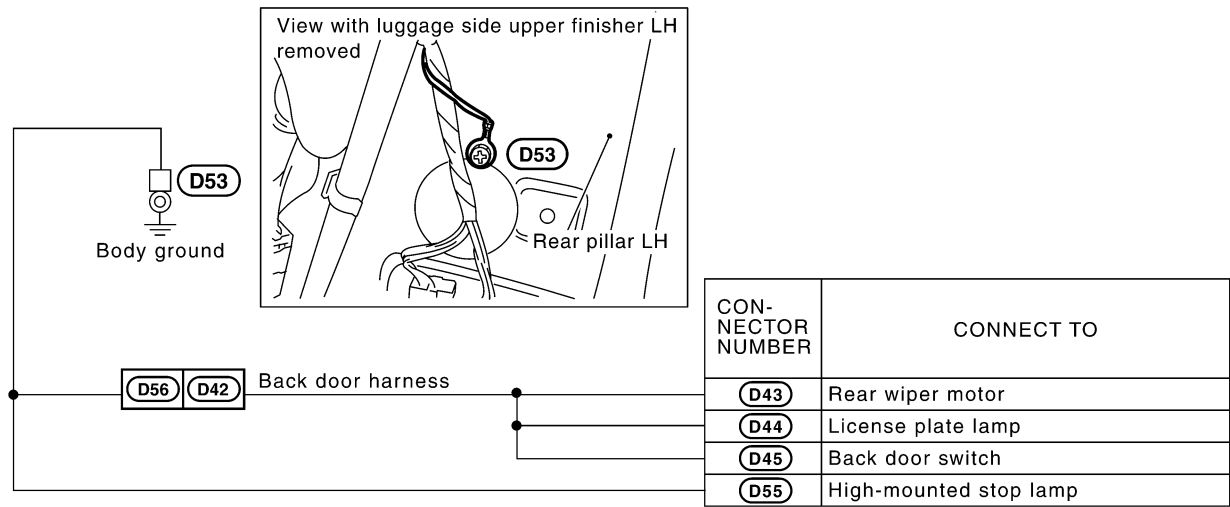
ROOM LAMP HARNESS



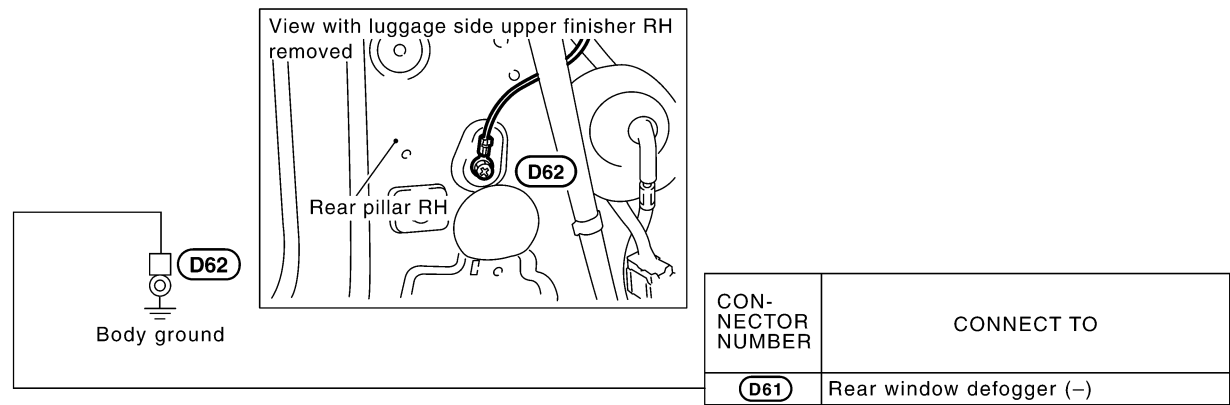
GROUND

BACK DOOR SUB HARNESS/REAR WINDOW DEFOGGER HARNESS

BACK DOOR SUB-HARNESS



REAR WINDOW DEFOGGER HARNESS



HARNESS

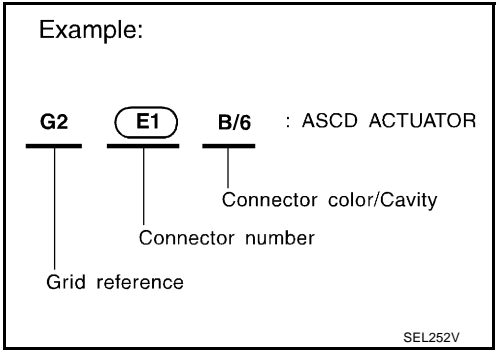
PFP:00011

Harness Layout  
HOW TO READ HARNESS LAYOUTS

EKS00321

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

- Main Harness
- Engine Room Harness



To Use the Grid Reference

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

CONNECTOR SYMBOL

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

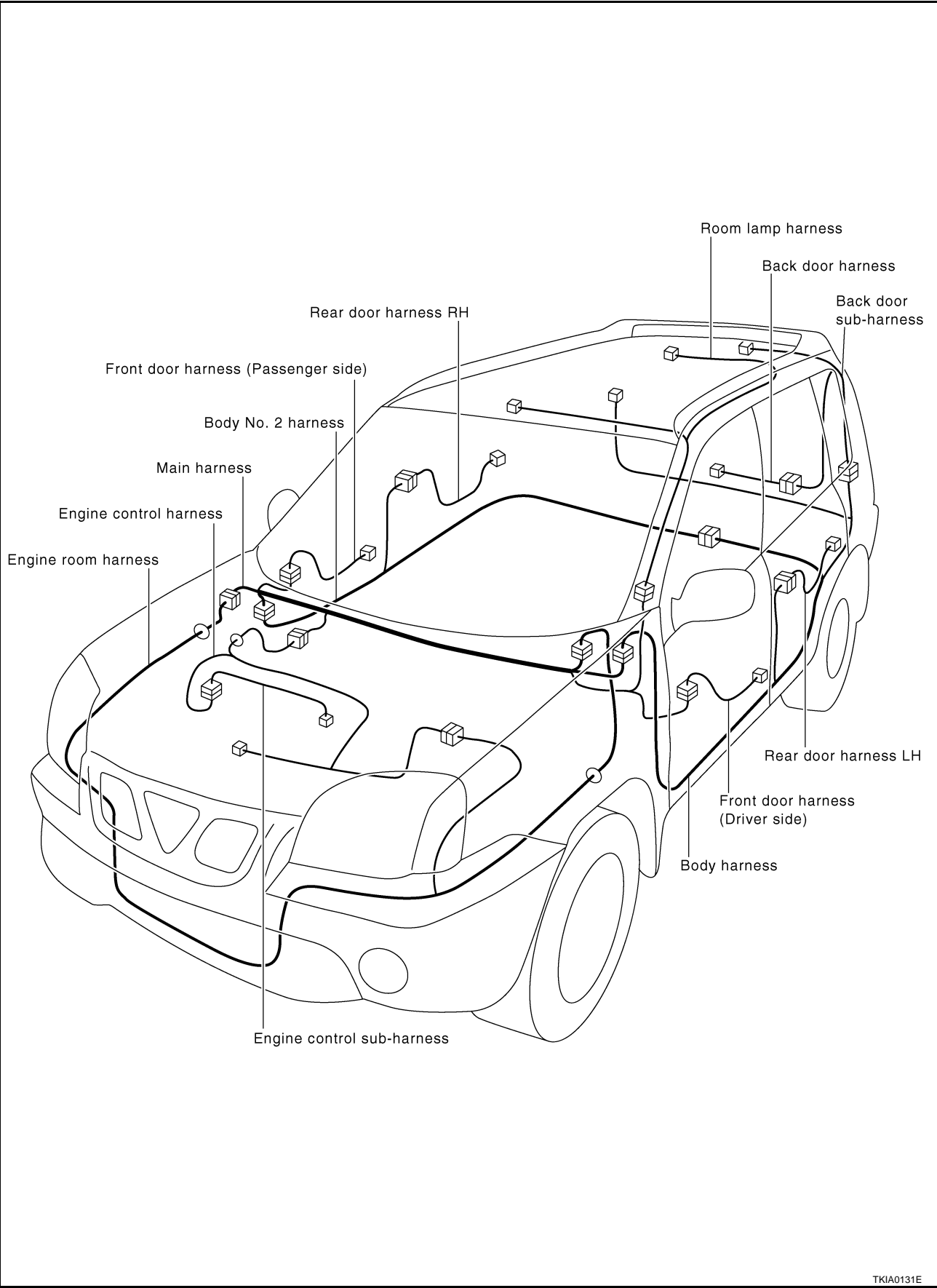
Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
• Cavity: Less than 4 • Relay connector				
• Cavity: From 5 to 8				
• Cavity: More than 9	—	—		
• Ground terminal etc.	—			

SKIA0404E



HARNESS

OUTLINE/LHD MODELS

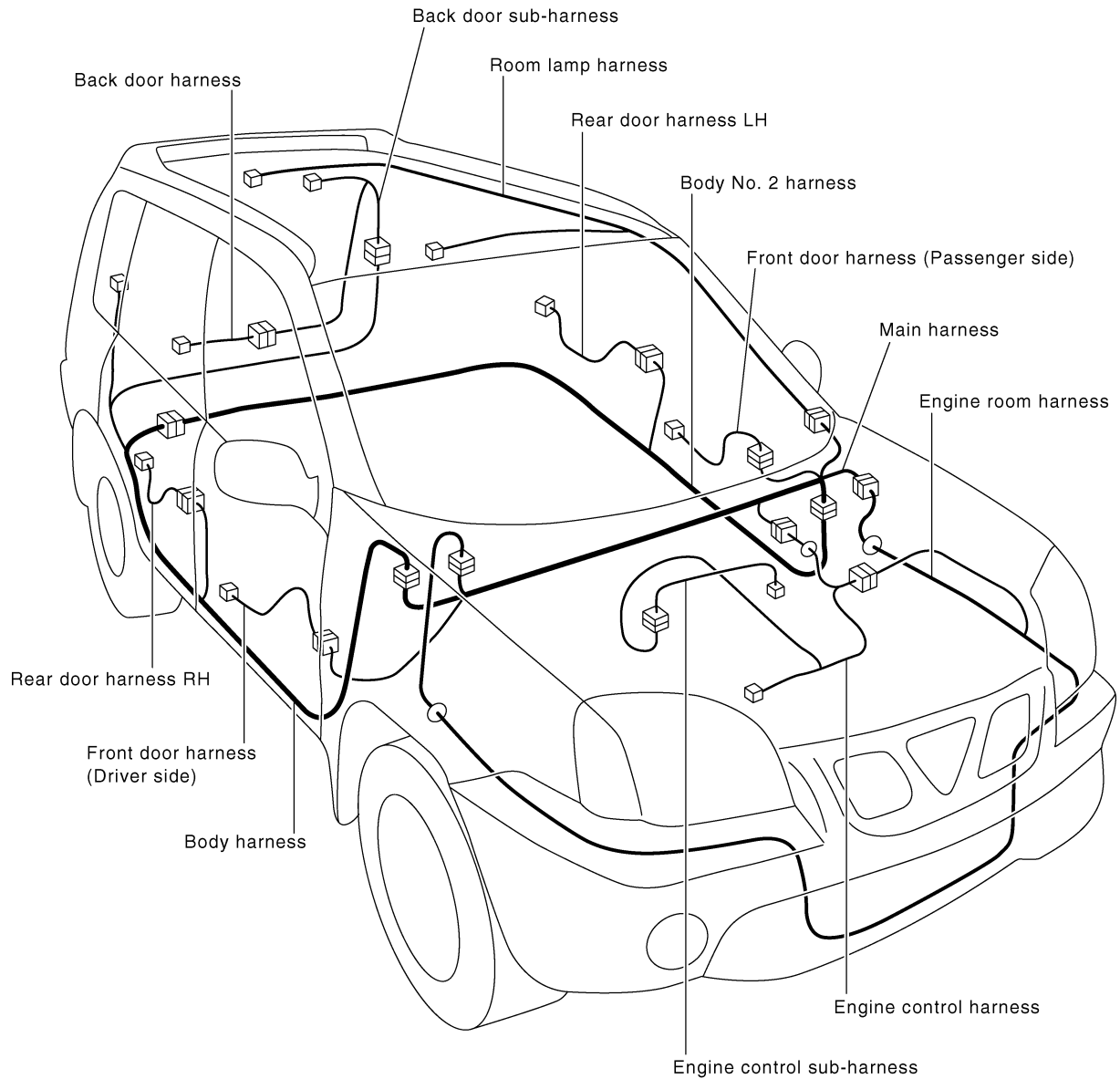


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TKIA0131E

# HARNESS

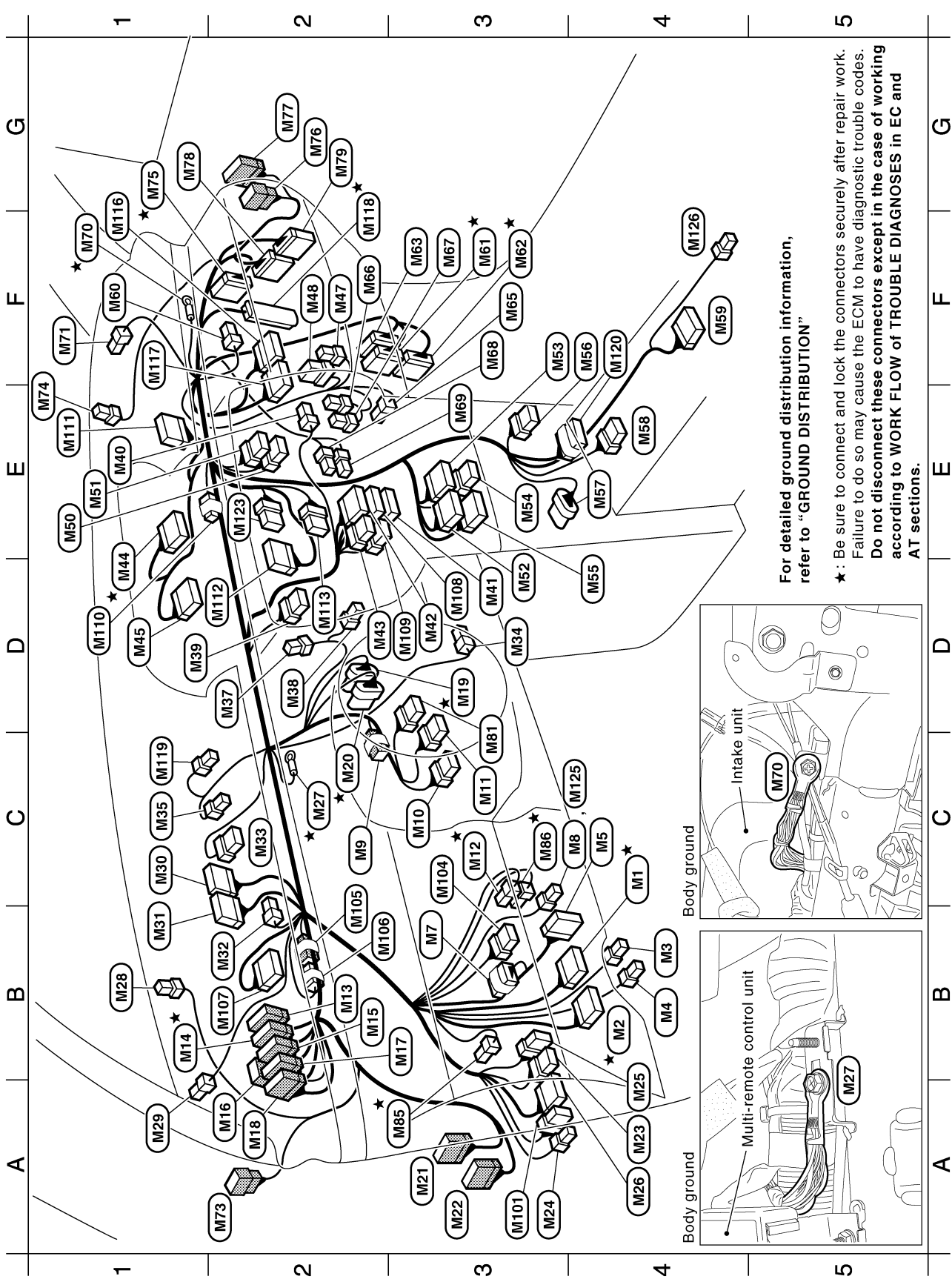
## OUTLINE/RHD MODELS



TKIA0132E

HARNESS

MAIN HARNESS/LHD MODELS

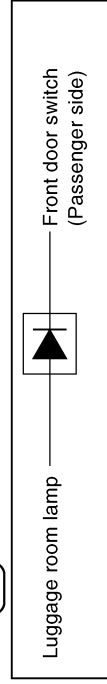


For detailed distribution information, refer to "GROUND DISTRIBUTION"

★: 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.

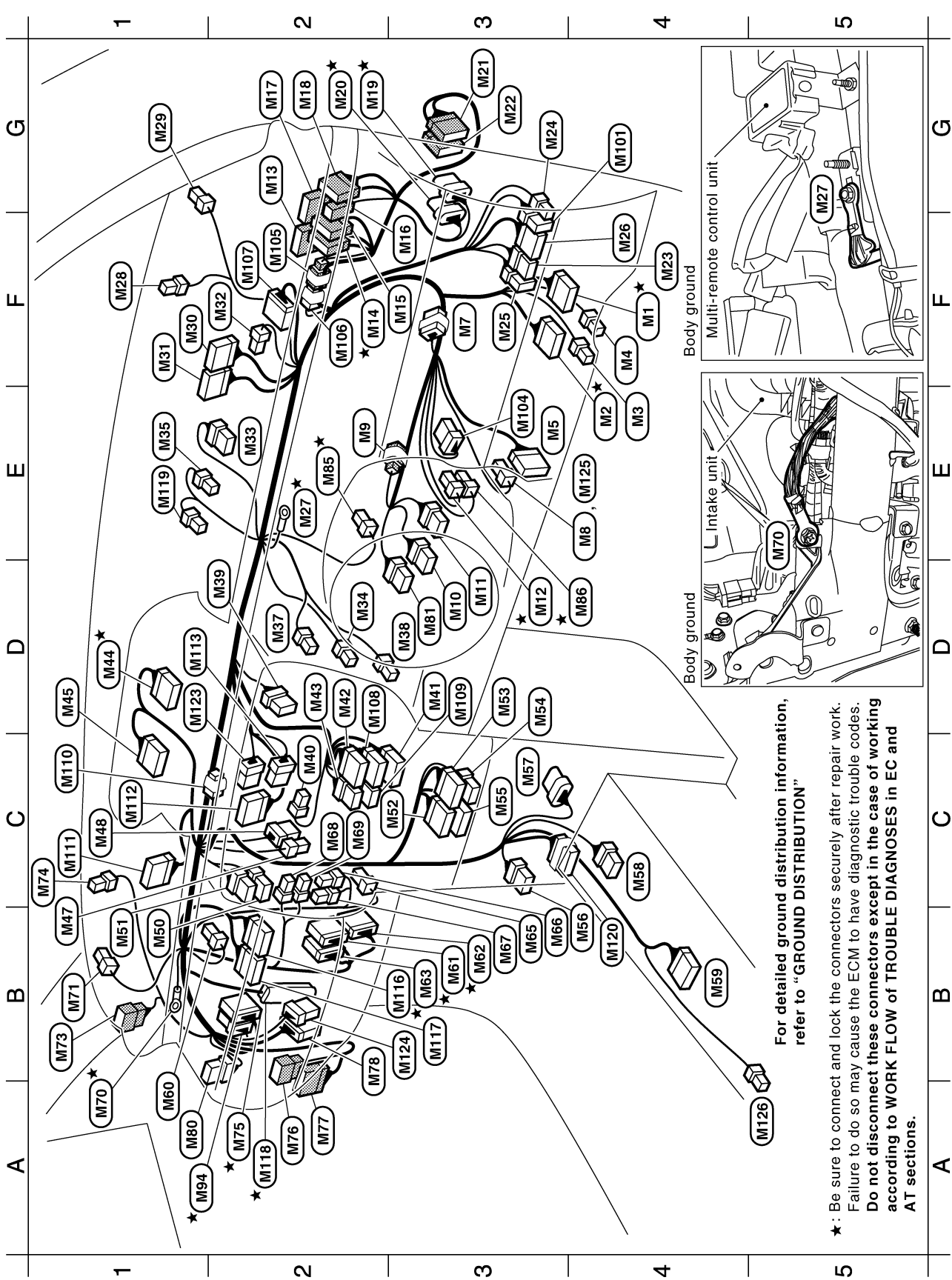
★ C4	(M1)	W/16 : Fuse block (J/B)	★ E1	(M40)	W/2 : Antenna amp.	★ F1	(M70)	— : Body ground
B4	★ (M2)	W/10 : Fuse block (J/B)	D3	(M41)	W/16 : Audio unit (Without NAVI)	F1	(M71)	BR/2 : Tweeter RH
B4	(M3)	L/4 : Power window relay	D3	(M42)	W/16 : Audio unit (With NAVI)	A2	(M73)	W/8 : To (R1)
B4	(M4)	W/2 : Circuit breaker (PTC)	D2	(M43)	W/8 : Audio unit (With NAVI)	E1	(M74)	B/2 : Sunload sensor (With auto A/C)
C4	(M5)	W/16 : Data link connector	D1	★ (M44)	W/40 : Combination meter	G1	(M75)	BR/20 : To (E116)
B3	(M7)	W/6 : Option connector for theft warning system	D1	(M45)	W/24 : Combination meter	G2	(M76)	BR/8 : To (D12)
C4	(M8)	L/4 : Cigarette lighter relay (Without front power socket) (Center console)	F2	(M47)	W/3 : Intake door motor (With auto A/C)	G2	(M77)	W/12 : To (D11)
			F2	(M48)	B/6 : Intake door motor (With manual A/C)	G1	(M78)	W/12 : To (B105)
			E1	(M50)	W/6 : Rear window defogger switch (With manual A/C)	G2	(M79)	W/10 : To (B106)
C2	(M9)	BR/2 : Key switch	E1	(M51)	W/8 : Hazard switch	C3	(M81)	W/8 : Steering angle sensor (With ESP)
C3	(M10)	Y/6 : Combination switch (Spiral cable)	D3	(M52)	GY/20 : A/C auto amp. (With auto A/C)	A3	★ (M85)	L/2 : ASCD clutch switch
C3	(M11)	GY/8 : Combination switch (Spiral cable)	F3	(M53)	GY/16 : A/C auto amp. (With auto A/C)	C3	★ (M86)	BR/2 : ASCD brake switch
C3	★ (M12)	W/4 : Stop lamp switch (With A/T)	E3	(M54)	W/6 : Fan switch (With manual A/C)	A3	(M101)	W/8 : Driving lamp switch
		B/2 : Stop lamp switch (With M/T)	D4	(M55)	W/12 : Heater control panel (With manual A/C)	C3	(M104)	W/8 : Voice change relay
B2	(M13)	W/12 : To (E105)	F4	(M56)	GY/6 : Cigarette lighter socket and ashtray illumination	B2	(M105)	B/2 : To (M106)
B1	★ (M14)	BR/16 : To (E106)				B2	(M106)	B/2 : To (M105)
B2	(M15)	W/16 : To (E107)	E4	(M57)	W/5 : G sensor (4WD models)	D3	(M107)	W/16 : 4WD control unit
A2	(M16)	W/6 : To (B3)	E4	(M58)	W/6 : A/T device	D3	(M108)	W/10 : Audio unit (Without NAVI)
B3	(M17)	W/10 : To (B1)	E4	(M59)	Y/20 : Air bag diagnosis sensor unit	D1	(M109)	W/6 : Audio unit (Without NAVI)
A2	(M18)	BR/20 : To (B2)	F4	(M60)	Y/2 : Front passenger air bag module	D1	(M110)	W/2 : Diode
D3	★ (M19)	GY/6 : Accelerator pedal position sensor (With gasoline engine)	F1	★ (M61)	BR/24 : To (F41) (With gasoline engine)	E1	(M111)	W/32 : Transfer unit (With NAVI)
C2	★ (M20)	GY/6 : Accelerator work unit (With diesel engine)	F3	★ (M62)	W/16 : To (F42) (With gasoline engine)	D2	(M112)	GY/24 : Display (With NAVI)
			F3	(M63)	W/16 : To (F30) (With diesel engine)	D2	(M113)	W/8 : NAVI switch (With NAVI)
A3	(M21)	W/16 : To (D1)	F3	(M65)	W/2 : Blower motor	F1	(M116)	W/24 : NAVI control unit (With NAVI)
A3	(M22)	BR/12 : To (D2)	F2	(M66)	BR/4 : Fan resistor (With manual A/C)	F2	(M117)	GY/24 : NAVI control unit (With NAVI)
A4	(M23)	GY/8 : Headlamp washer switch	F3	(M67)	W/4 : Fan control amp. (With auto A/C)	C1	(M118)	SMJ : ECM
A3	(M24)	W/4 : Headlamp aiming switch (Without xenon headlamp)	F3	(M68)	W/4 : Intake sensor (Gasoline engine with auto A/C)	F4	(M119)	W/2 : Driver pocket lamp
A4	(M25)	GY/6 : ESP off switch (With ESP)	E3	(M69)	W/2 : Intake sensor (Diesel engine with auto A/C)	F4	(M120)	W/12 : Option connector for telephone
A4	(M26)	W/10 : Door mirror remote control switch				E2	(M123)	W/8 : TMC tuner (With NAVI)
C2	★ (M27)	— : Body ground				C4	(M125)	L/4 : Front power socket relay (Without cigarette lighter)
B1	(M28)	BR/2 : Security indicator lamp					(M126)	W/2 : Front power socket (Center console)
A1	(M29)	BR/2 : Tweeter LH						(Without cigarette lighter)
C1	(M30)	GY/16 : Time control unit						
B1	(M31)	GY/20 : Time control unit						
B2	(M32)	B/3 : Combination flasher unit						
C2	(M33)	BR/8 : Multi-remote control unit						
D3	(M34)	W/2 : In-vehicle sensor (With auto A/C)						
C1	(M35)	B/2 : Front power socket						
D2	(M37)	W/3 : Mode door motor (With auto A/C)						
D2	(M38)	W/3 : Air mix door motor (With auto A/C)						
D1	(M39)	GY/8 : 4WD mode switch						

Diode (M110)



★ : 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.**

MAIN HARNESS/RHD MODELS



TKIB0409E

# HARNESS

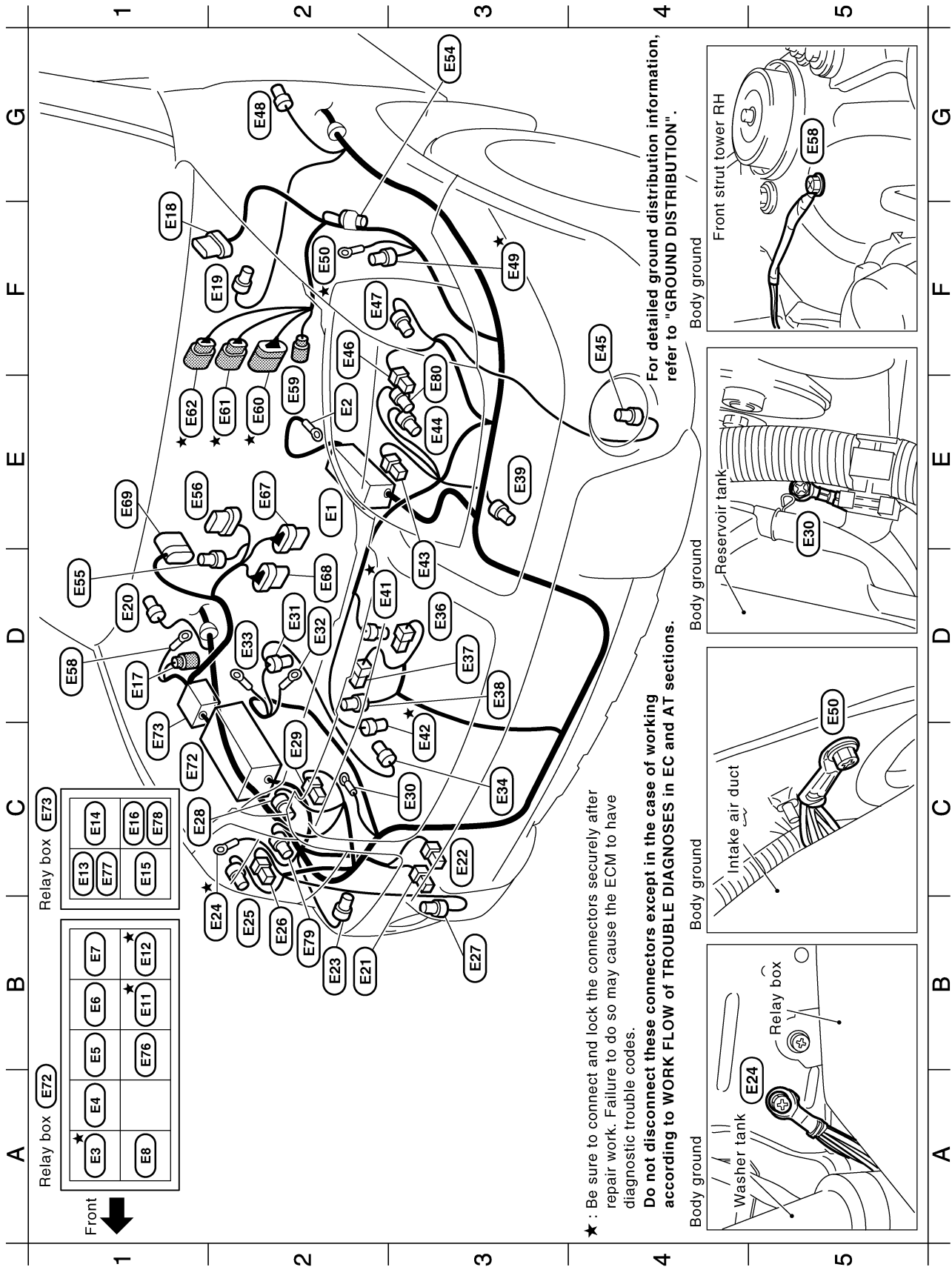
★ F4	(M1)	W/16 : Fuse block (J/B)	C2	(M40)	W/2 : Antenna amp.	B1	(M73)	W/8 : To (R1)
E4	★ (M2)	W/10 : Fuse block (J/B)	D3	(M41)	W/16 : Audio unit (Without NAVI)	C1	(M74)	B/2 : Sunload sensor (With auto A/C)
E4	(M3)	L/4 : Power window relay	D2	(M42)	W/16 : Audio unit (With NAVI)	A2	★ (M75)	BR/16 : To (E116)
F4	(M4)	W/2 : Circuit breaker (PTC)	D2	(M43)	W/8 : Audio unit (With NAVI)	A2	(M76)	BR/8 : To (D12)
E3	(M5)	W/16 : Data link connector	D1	★ (M44)	W/40 : Combination meter	B2	(M77)	W/12 : To (D11)
F3	(M7)	W/6 : Option connector for theft warning system	D1	(M45)	W/24 : Combination meter	B2	(M78)	BR/16 : To (B105)
E4	(M8)	L/4 : Cigarette lighter relay (Without front power socket)	B1	(M47)	W/3 : Intake door motor (With auto A/C)	A1	(M80)	BR/8 : Dongle unit
		(Center console)	C1	(M48)	B/6 : Intake door motor (With manual A/C)	D3	(M81)	W/8 : Steering angle sensor (With ESP)
E2	(M9)	BR/2 : Key switch	B1	(M50)	W/6 : Rear window defogger switch	E2	★ (M85)	L/2 : ASCD clutch switch
D3	(M10)	Y/6 : Combination switch (Spiral cable)	B1	(M51)	W/8 : Hazard switch	D4	★ (M86)	BR/2 : ASCD brake switch
D3	(M11)	GY/8 : Combination switch (Spiral cable)	C3	(M52)	GY/20 : A/C auto amp. (With auto A/C)	A1	★ (M94)	W/8 : To (E125)
D3	★ (M12)	W/4 : Stop lamp switch (With A/T)	D3	(M53)	GY/16 : A/C auto amp. (With auto A/C)	G4	(M101)	W/8 : Driving lamp switch
		B/2 : Stop lamp switch (With M/T)	D3	(M54)	W/6 : Fan switch (With manual A/C)	E3	(M104)	W/8 : Voice change relay
G2	(M13)	BR/12 : To (E105)	C3	(M55)	W/12 : Heater control panel (With manual A/C)	F2	(M105)	B/2 : To (M106)
F2	★ (M14)	W/20 : To (E106)	B4	(M56)	GY/6 : Cigarette lighter socket and ashtray illumination	F2	(M106)	B/2 : To (M105)
F3	(M15)	W/12 : To (E107)	C3	(M57)	W/5 : G sensor (4WD models)	F2	(M107)	W/16 : 4WD control unit
F3	(M16)	W/4 : To (B3)	C4	(M58)	W/6 : A/T device	D2	(M108)	W/10 : Audio unit (Without NAVI)
G2	(M17)	W/12 : To (B1)	B4	(M59)	Y/20 : Air bag diagnosis sensor unit	D3	(M109)	W/6 : Audio unit (Without NAVI)
G2	(M18)	BR/20 : To (B2)	A1	(M60)	Y/2 : Front passenger air bag module	C1	(M110)	W/2 : Diode
G2	★ (M19)	GY/6 : Accelerator pedal position sensor (With gasoline engine)	B3	★ (M61)	BR/24 : To (F41) (With gasoline engine)	C1	(M111)	W/32 : Transfer unit (With NAVI)
		(With diesel engine)	B3	★ (M62)	W/16 : To (F42) (With gasoline engine)	C1	(M112)	GY/24 : Display (With NAVI)
G2	★ (M20)	GY/6 : Accelerator work unit (With diesel engine)	B3	★ (M63)	W/16 : To (F30) (With diesel engine)	D1	(M113)	W/8 : NAVI switch (With NAVI)
G3	(M21)	W/18 : To (D1)	B3	(M65)	W/2 : Blower motor	B3	(M116)	W/24 : NAVI control unit (With NAVI)
G3	(M22)	BR/12 : To (D2)	B3	(M66)	BR/4 : Fan resistor (With manual A/C)	A2	★ (M117)	GY/24 : NAVI control unit (With NAVI)
F4	(M23)	GY/8 : Headlamp washer switch	B3	(M67)	W/4 : Fan control amp. (With auto A/C)	E1	(M118)	SMJ : ECM
G3	(M24)	W/4 : Headlamp aiming switch (Without xenon headlamp)	C2	(M68)	W/4 : Intake sensor (Gasoline engine with auto A/C)	B4	(M119)	W/2 : Driver pocket lamp
F3	(M25)	GY/6 : ESP off switch (With ESP)	C2	(M69)	W/2 : Intake sensor (Diesel engine with auto A/C)	D1	(M120)	W/12 : Option connector for telephone
F4	(M26)	W/10 : Door mirror remote control switch	A1	★ (M70)	— : Body ground	B3	(M123)	W/8 : TMC tuner (With NAVI)
E2	★ (M27)	— : Body ground	B1	(M71)	BR/2 : Tweeter LH	E4	(M124)	W/6 : To (B143)
F1	(M28)	BR/2 : Security indicator lamp					(M125)	L/4 : Front power socket relay (Without cigarette lighter)
G1	(M29)	BR/2 : Tweeter RH				A5	(M126)	W/2 : Front power socket (Center console)
F1	(M30)	GY/16 : Time control unit						(Without cigarette lighter)
F1	(M31)	GY/20 : Time control unit						
F2	(M32)	B/3 : Combination flasher unit						
E2	(M33)	BR/8 : Multi-remote control unit						
D2	(M34)	W/2 : In-vehicle sensor (With auto A/C)						
E1	(M35)	B/2 : Front power socket						
D2	(M37)	W/3 : Mode door motor (With auto A/C)						
D3	(M38)	W/3 : Air mix door motor (With auto A/C)						
D2	(M39)	GY/8 : 4WD mode switch						

Diode (M110)



★ : 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 ROOM HARNESS/LHD MODELS  
Engine Compartment for Gasoline Engine Models

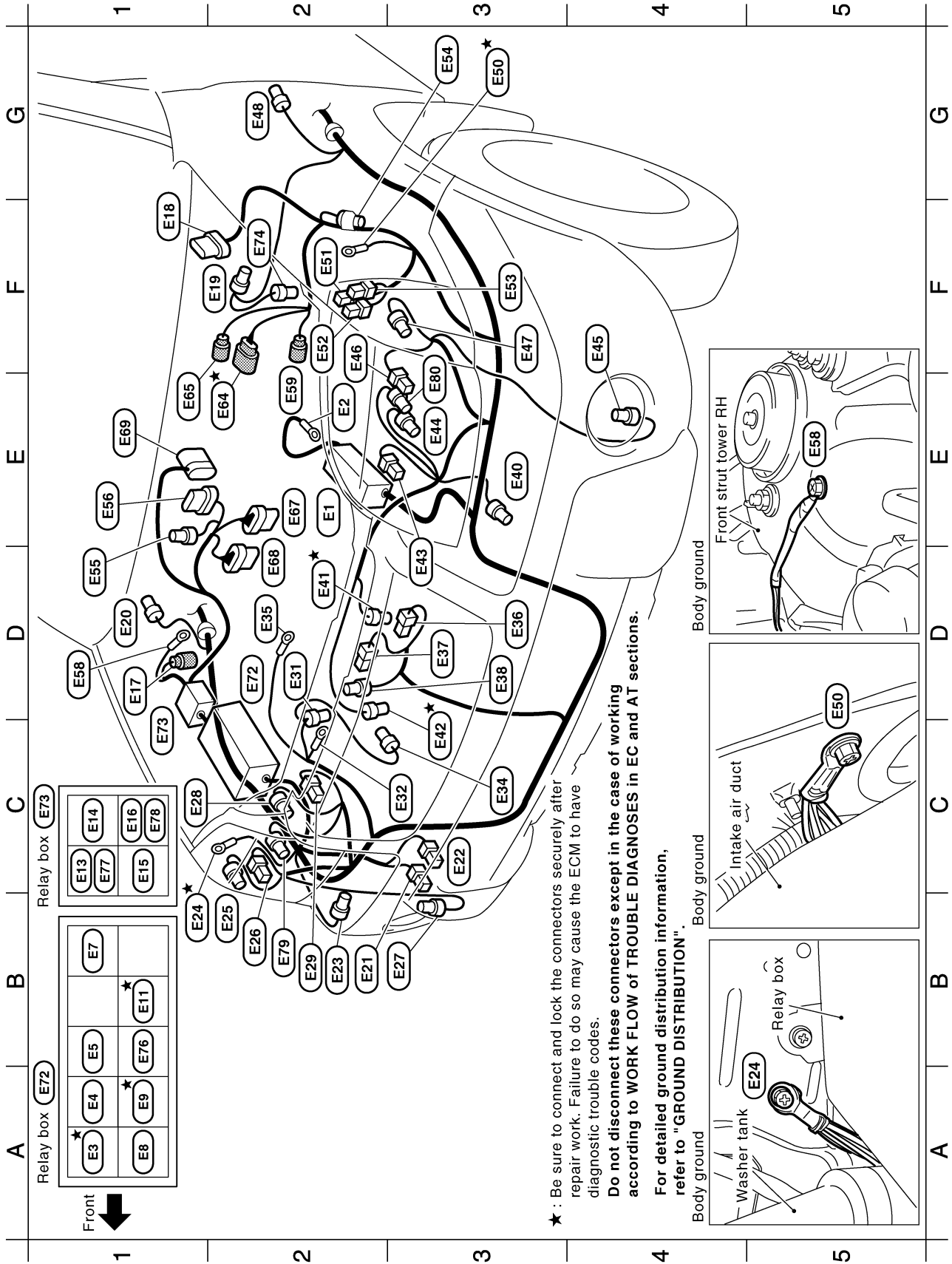


E2	E1	—	Fuse and Fusible link box	E3	E44	B/3	Headlamp aiming motor LH
E2	E2	—	Battery (+)	F4	E45	-/2	Front fog lamp LH
A1	E3	BR/6	Cooling fan relay-1	F2	E46	B/3	Headlamp LH (Without xenon headlamp)
A1	E4	W/3	Horn relay	F2	E47	GY/2	Front turn signal lamp LH
B1	E5	L/4	Air conditioner relay (With auto A/C)	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
B1	E11	BR/6	Cooling fan relay-3	D1	E55	B/2	ESP relay box (With ESP)
B1	★ E12	L/4	Throttle control motor relay	E1	E56	B/8	ESP relay box (With ESP)
C1	E13	L/4	Daytime light relay LH (With daytime light system)	D1	E58	—	Body ground
C1	E14	L/4	Driving lamp relay-1	E2	E59	L/2	Front wheel sensor LH
C1	E15	L/4	Rear fog lamp relay	E2	★ E60	GY/9	To F36
C1	E16	L/4	Daytime light relay RH (With daytime light system)	E2	★ E61	DGY/8	To F38
D1	E17	GY/2	Front wheel sensor RH	E1	★ E62	GY/8	To F37
F1	E18	GY/5	Front wiper motor	E2	E67	DGY/8	ESP actuator (With ESP)
F2	E19	GY/2	Brake fluid level switch	D2	E68	SB/8	ESP actuator (With ESP)
D1	E20	BR/2	Side turn signal lamp RH	E1	E69	SMJ	ABS actuator and electric unit (Without ESP)
B2	E21	W/2	Front washer motor	A1, C1	E72	—	Relay box
C3	E22	G/2	Rear washer motor	C1	E73	—	Relay box
B2	E23	GY/2	Headlamp washer motor	B1	E76	—	Fuse block (With xenon headlamp)
B2	★ E24	—	Body ground	C1	E77	L/4	HID relay LH (With xenon headlamp)
B2	E25	GY/2	Front turn signal lamp RH				(Without daytime light system)
B2	E26	B/3	Headlamp RH (Without xenon headlamp)	C1	E78	L/4	HID relay RH (With xenon headlamp)
B3	E27	-/2	Front fog lamp RH				(Without daytime light system)
C1	E28	B/3	Headlamp aiming motor RH	B2	E79	DGY/4	Headlamp RH (With xenon headlamp)
C2	E29	B/2	Parking lamp RH	E3	E80	DGY/4	Headlamp LH (With xenon headlamp)
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				
E3	E39	B/3	Refrigerant pressure sensor (With auto A/C)				
D2	★ E41	GY/2	Cooling fan motor-1				
C3	★ E42	GY/4	Cooling fan motor-2				
D3	E43	B/2	Parking lamp LH				

★: 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 Compartment for Diesel Engine Models

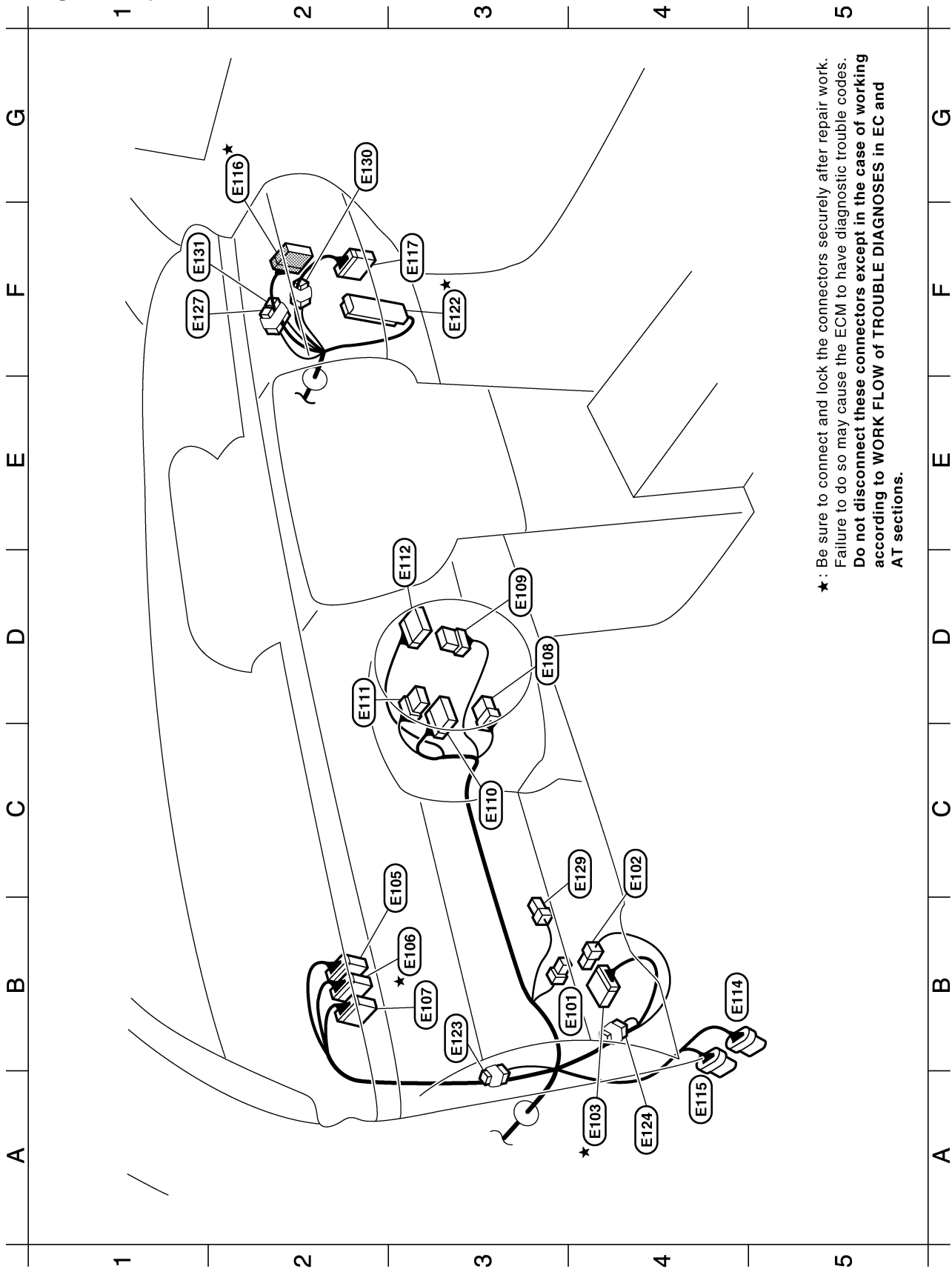


E2	E1	—	: Fuse and Fusible link box	F3	(E47)	GY/2	: Front turn signal lamp LH
E2	E2	—	: Battery (+)	G2	(E48)	BR/2	: Side turn signal lamp LH
A1	★	(E3)	BR/6 : Cooling fan relay-1	G3	★	(E50)	— : Body ground
A1	(E4)	W/3	: Horn relay	F2	(E51)	W/1	: Glow relay
B1	(E5)	L/4	: Air conditioner relay (With auto A/C)	F2	(E52)	W/1	: Glow relay
B1	(E7)	L/4	: Front fog lamp relay	F3	(E53)	G/2	: Glow relay
A1	★	(E8)	BR/6 : Headlamp washer timer	G3	(E54)	GY/2	: Option connector for hood switch
A1	★	(E9)	BR/6 : Cooling fan relay-2	D1	(E55)	B/2	: ESP relay box (With ESP)
B1	★	(E11)	BR/6 : Cooling fan relay-3	E1	(E56)	B/8	: ESP relay box (With ESP)
C1	(E13)	L/4	: Daytime light relay LH (With daytime light system)	D1	(E58)	—	: Body ground
C1	(E14)	L/4	: Driving lamp relay-1	E2	(E59)	L/2	: Front wheel sensor LH
C1	(E15)	L/4	: Rear fog lamp relay	E2	★	(E64)	B/6 : To (F5)
C1	(E16)	L/4	: Daytime light relay RH (With daytime light system)	E1	(E65)	B/2	: To (F6)
D1	(E17)	GY/2	: Front wheel sensor RH	E2	(E67)	DGY/8	: ESP actuator (With ESP)
F1	(E18)	GY/5	: Front wiper motor	D2	(E68)	SB/8	: ESP actuator (With ESP)
F2	(E19)	GY/2	: Brake fluid level switch	E1	(E69)	SMJ	: ABS actuator and electric unit (Without ESP)
D1	(E20)	BR/2	: Side turn signal lamp RH	A1, D2	(E72)	—	: Relay box
B2	(E21)	W/2	: Front washer motor	C1	(E73)	—	: Relay box
C3	(E22)	G/2	: Rear washer motor	F2	(E74)	BR/2	: Fuel filter switch (With fuel filter warning)
B2	(E23)	GY/2	: Headlamp washer motor	B1	(E76)	—	: Fuse block (With xenon headlamp)
B1	★	(E24)	— : Body ground	C1	(E77)	L/4	: HID relay LH (With xenon headlamp)
B2	(E25)	GY/2	: Front turn signal lamp RH				(Without daytime light system)
B2	(E26)	B/3	: Headlamp RH (Without xenon headlamp)	C1	(E78)	L/4	: HID relay RH (With xenon headlamp)
B3	(E27)	-/2	: Front fog lamp RH				(Without daytime light system)
C1	(E28)	B/3	: Headlamp aiming motor RH	B2	(E79)	DGY/4	: Headlamp RH (With xenon headlamp)
B2	(E29)	B/2	: Parking lamp RH	E3	(E80)	DGY/4	: Headlamp LH (With xenon headlamp)
D2	(E31)	GY/2	: Alternator				
C3	(E32)	—	: 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				
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				
E3	(E44)	B/3	: Headlamp aiming motor LH				
F4	(E45)	-/2	: Front fog lamp LH				
F2	(E46)	B/3	: Headlamp LH (Without xenon headlamp)				

★: Be sure to connect and lock the connectors securely after repair work.  
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**Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.**

HARNESS

Passenger Compartment



TKIB0230E

- B4

E101

B/2

:

Fuse block (J/B)
- C4

E102

W/4

:

Fuse block (J/B)
- A4

E103

W/12

:

Fuse block (J/B)
- C3

E105

W/12

:

To M13
- B3

E106

BR/16

:

To M14
- B3

E107

W/16

:

To M15
- D3

E108

W/6

:

Ignition switch
- D3

E109

W/8

:

NATS IMMU
- C3

E110

BR/12

:

Combination switch (Lighting switch)
- D2

E111

W/8

:

Combination switch (Fog lamp switch)
- D3

E112

GY/12

:

Combination switch  
(Wiper and washer switch)
- B4

E114

GY/6

:

Daytime light control unit
- A4

E115

GY/8

:

Daytime light control unit
- G2

E116

BR/20

:

To M75
- F3

E117

W/10

:

To B101
- F3

E122

SMJ

:

ESP/TCS/ABS control unit (With ESP)
- B3

E123

W/2

:

Diode (With gasoline engine)(Without xenon headlamp)
- A4

E124

W/2

:

Diode (With gasoline engine)(Without xenon headlamp)
- F1

E127

L/4

:

Diode (With xenon headlamp)  
(With xenon headlamp, daytime light system)
- C4

E129

BR/6

:

Driving lamp relay-2
- G2

E130

L/4

:

Diode (With xenon headlamp, daytime light system)
- F1

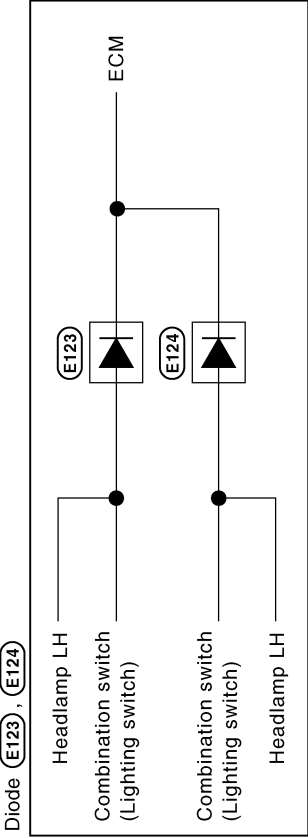
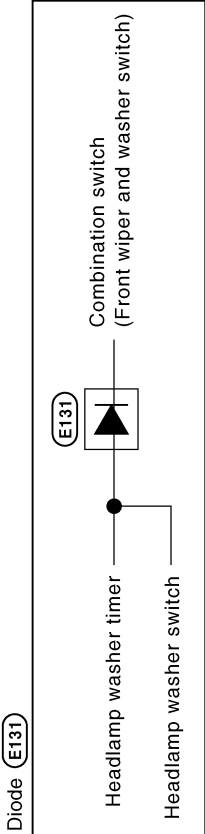
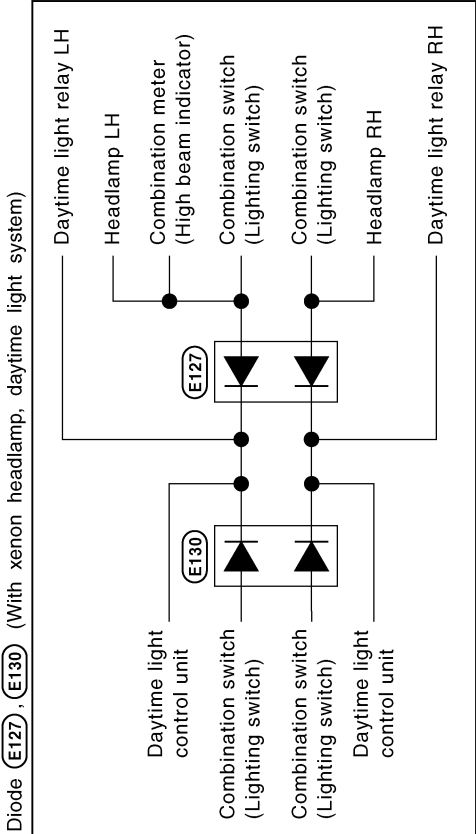
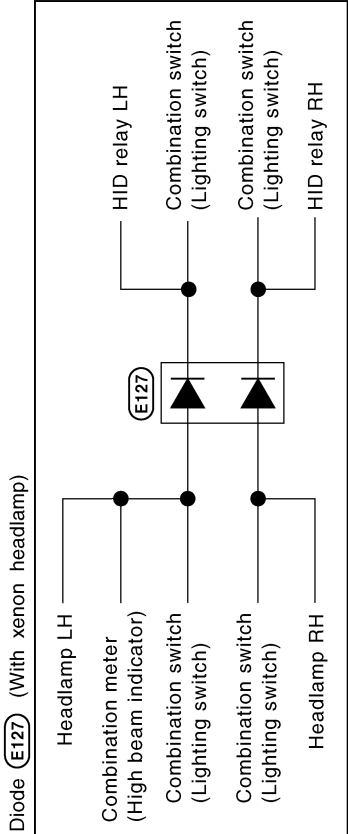
E131

W/2

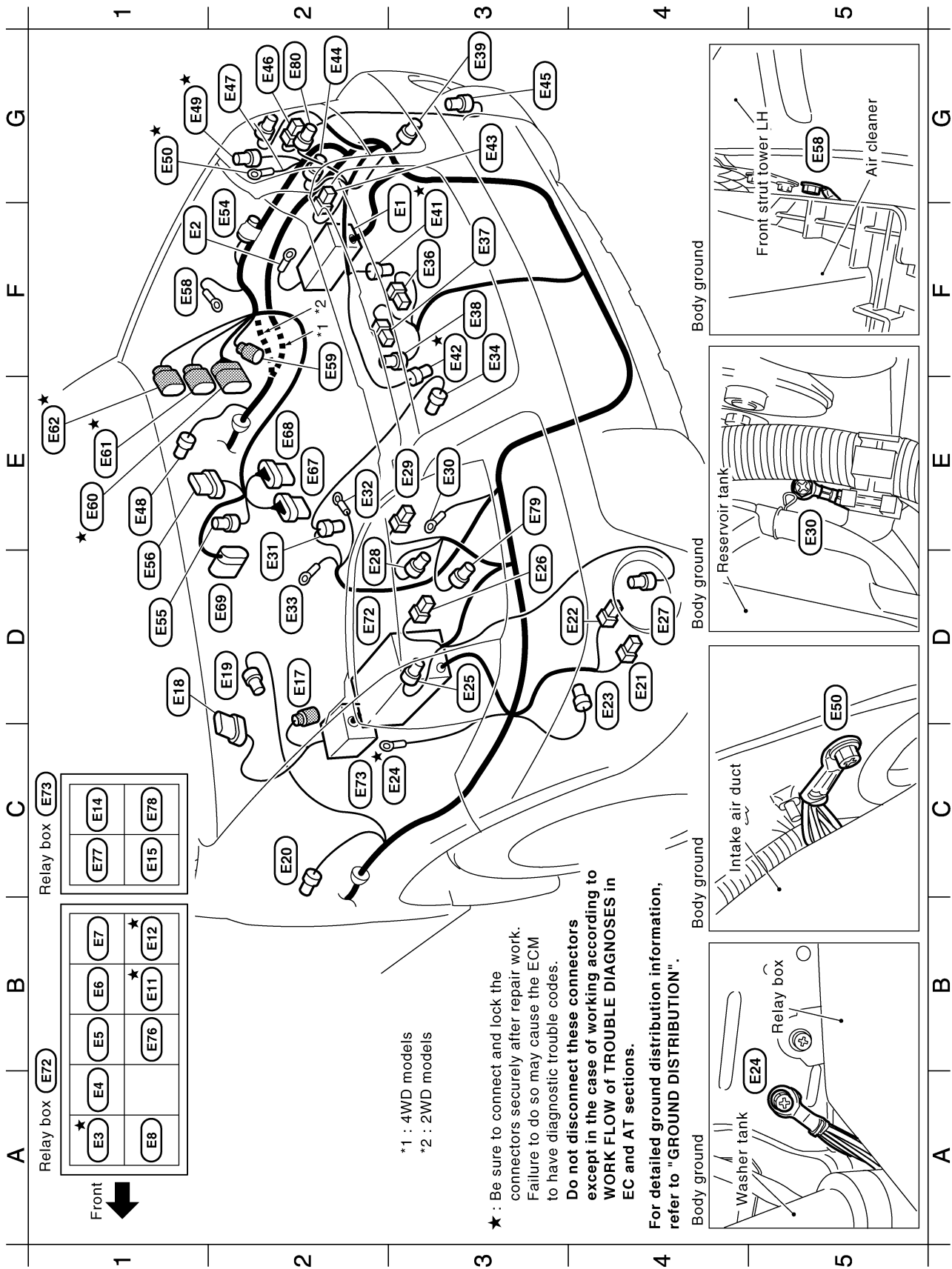
:

Diode (With xenon headlamp)

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ENGINE ROOM HARNESS/RHD MODELS  
Engine Compartment for Gasoline Engine Models



F3	(E1)	— : Fuse and Fusible link box	(E45)	-/2 : Front fog lamp LH	G3
F1	(E2)	— : Battery (+)	(E46)	B/3 : Headlamp LH (Without xenon headlamp)	G2
A1	(E3)	★ BR/6 : Cooling fan relay-1	(E47)	GY/2 : Front turn signal lamp LH	G2
A1	(E4)	W/3 : Horn relay	(E48)	BR/2 : Side turn signal lamp LH	E1
B1	(E5)	L/4 : Air conditioner relay	★ (E49)	GY/2 : Dropping resistor (With A/T)	G1
B1	(E6)	L/4 : Park/Neutral position relay (With A/T)	★ (E50)	— : Body ground	G1
B1	(E7)	L/4 : Front fog lamp relay	(E54)	GY/2 : Option connector for hood switch	F2
A1	(E8)	BR/6 : Headlamp washer timer	(E55)	B/2 : ESP relay box (With ESP)	D1
B1	★ (E11)	BR/6 : Cooling fan relay-3	(E56)	B/8 : ESP relay box (With ESP)	D1
B1	★ (E12)	L/4 : Throttle control motor relay	(E58)	— : Body ground	F1
C1	(E14)	L/4 : Driving lamp relay-1	(E59)	L/2 : Front wheel sensor LH	F2
C1	(E15)	L/4 : Rear fog lamp relay	★ (E60)	GY/9 : To (F36)	E1
D2	(E17)	GY/2 : Front wheel sensor RH	★ (E61)	DGY/8 : To (F38)	E1
D1	(E18)	GY/5 : Front wiper motor	★ (E62)	GY/8 : To (F37)	E1
D2	(E19)	GY/2 : Brake fluid level switch	(E67)	DGY/8 : ESP actuator (With ESP)	E2
C2	(E20)	BR/2 : Side turn signal lamp RH	(E68)	SB/8 : ESP actuator (With ESP)	E2
D4	(E21)	W/2 : Front washer motor	(E69)	SMJ : ABS actuator and electric unit (Without ESP)	D2
D4	(E22)	G/2 : Rear washer motor	A1, D2 (E72)	— : Relay box	A1, D2
D4	(E23)	GY/2 : Headlamp washer motor	C1, C2 (E73)	— : Relay box	C1, C2
C3	★ (E24)	— : Body ground	(E76)	— : Fuse block (With xenon headlamp)	B1
D3	(E25)	GY/2 : Front turn signal lamp RH	C1 (E77)	L/4 : HID relay LH (With xenon headlamp)	C1
D3	(E26)	B/3 : Headlamp RH (Without xenon headlamp)	(E78)	L/4 : HID relay RH (With xenon headlamp)	C1
D4	(E27)	-/2 : Front fog lamp RH	(E79)	DGY/4 : Headlamp RH (With xenon headlamp)	E3
D2	(E28)	B/3 : Headlamp aiming motor RH	(E80)	DGY/4 : Headlamp LH (With xenon headlamp)	G2
E3	(E29)	B/2 : Parking lamp RH			
E3	(E30)	— : Body ground			
D2	(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/2 : 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			

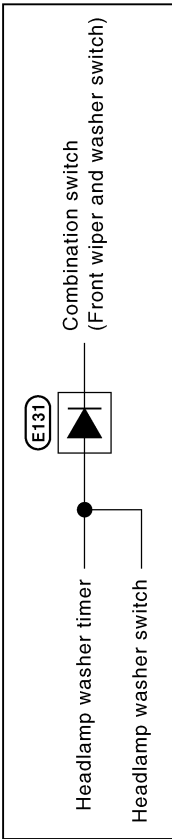
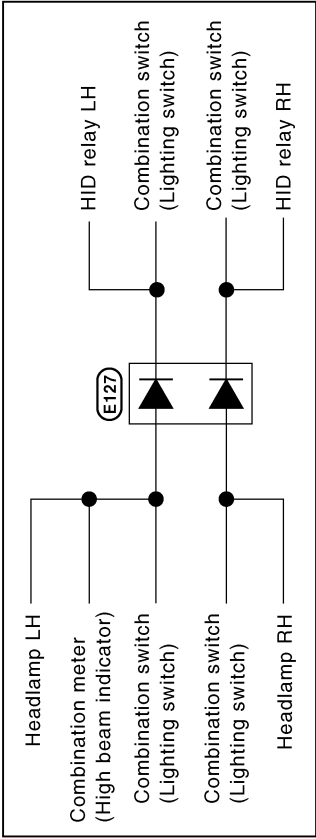
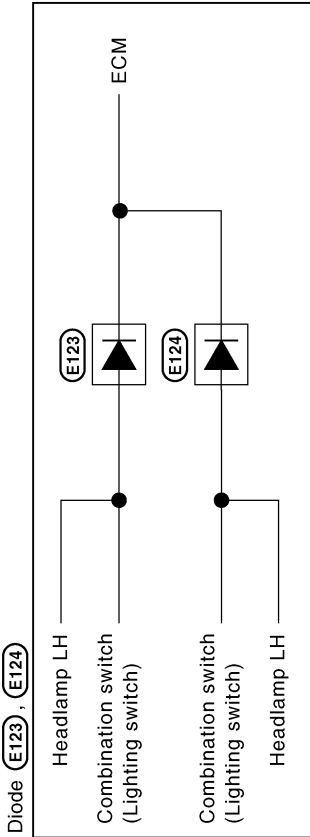
★: Be sure to connect and lock the connectors securely after repair work.  
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Passenger Compartment for Gasoline Engine Models



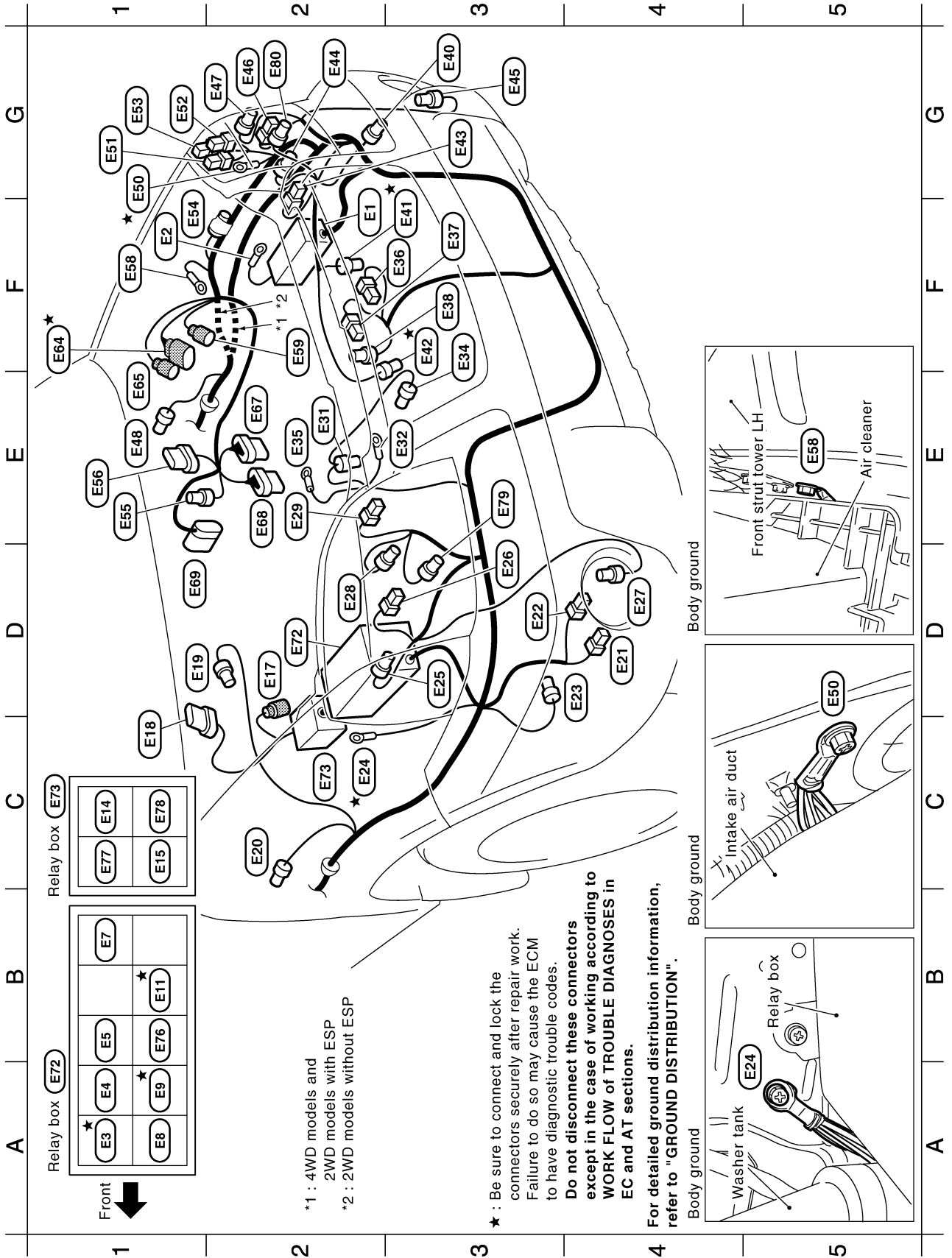
- E101 : Fuse block (J/B)
- E102 : Fuse block (J/B)
- E103 : Fuse block (J/B)
- E105 : To M13
- E106 : To M14
- E107 : To M15
- E108 : Ignition switch
- E109 : NATS IMMU
- E110 : Combination switch (Lighting switch)
- E111 : Combination switch (Fog lamp switch)
- E112 : Combination switch (Wiper and washer switch)
- E116 : To M75 (4WD models)
- E117 : To B101 (4WD models)
- E122 : ESP/TCS/ABS control unit (With ESP)
- E123 : Diode (Without xenon headlamp)
- E124 : Diode (Without xenon headlamp)
- E125 : To M94 (2WD models)
- E126 : To B133 (2WD models)
- E127 : Diode (With xenon headlamp)
- E129 : Driving lamp relay-2
- E131 : Diode (With xenon headlamp)

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# HARNESS

## Engine Compartment for Diesel Engine Models



TKIB0423E

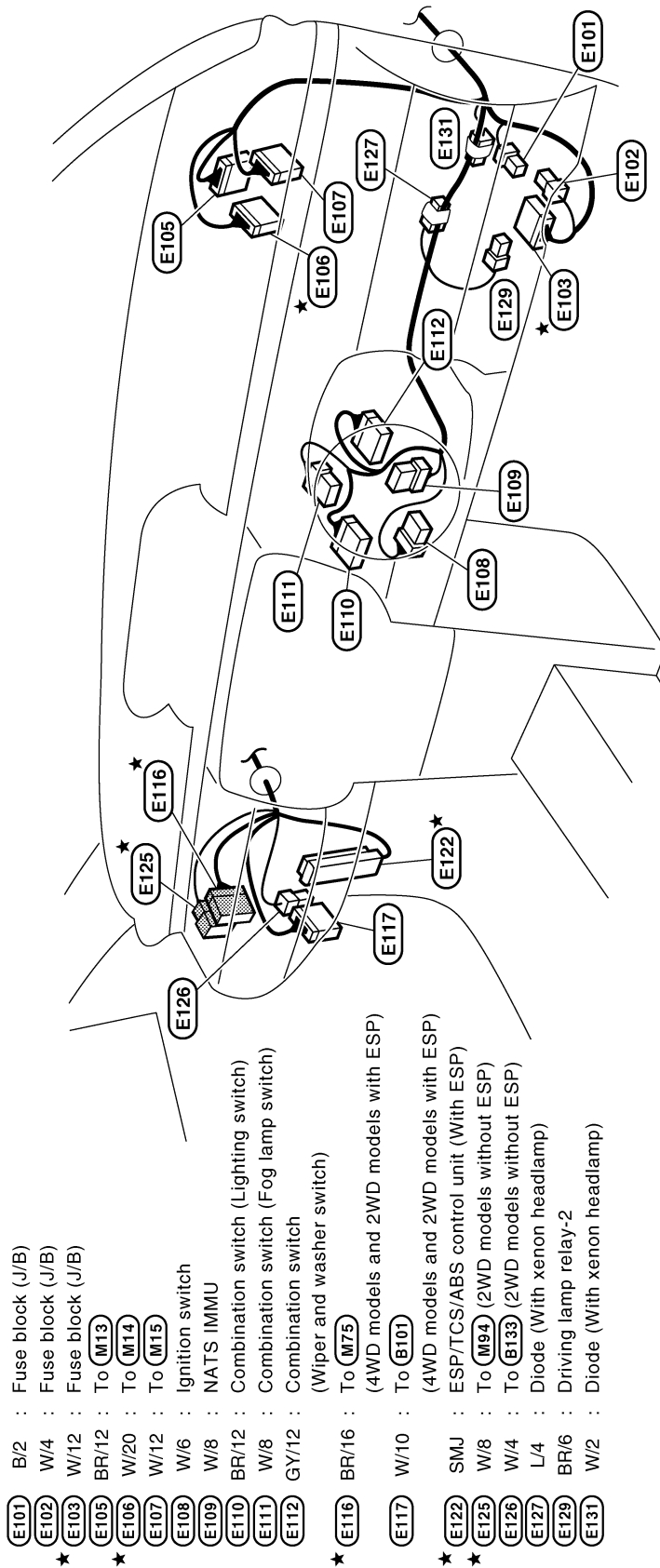


F2	(E1)	—	: Fuse and Fusible link box
F1	(E2)	—	: Battery (+)
A1	(E3)	BR/6	: Cooling fan relay-1
A1	(E4)	W/3	: Horn relay
B1	(E5)	L/4	: Air conditioner relay
B1	(E7)	L/4	: Front fog lamp relay
A1	(E8)	BR/6	: Headlamp washer timer
A1	(E9)	BR/6	: Cooling fan relay-2
B1	(E11)	BR/6	: Cooling fan relay-3
C1	(E14)	L/4	: Driving lamp relay-1
C1	(E15)	L/4	: Rear fog lamp relay
D2	(E17)	GY/2	: Front wheel sensor RH
C1	(E18)	GY/5	: 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 (Without xenon headlamp)
D4	(E27)	-/2	: Front fog lamp RH
D2	(E28)	B/3	: Headlamp aiming motor RH
E2	(E29)	B/2	: Parking lamp RH
E2	(E31)	GY/2	: Alternator
E3	(E32)	—	: 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)	-/2	: Front fog lamp LH
G2	(E46)	B/3	: Headlamp LH (Without xenon headlamp)

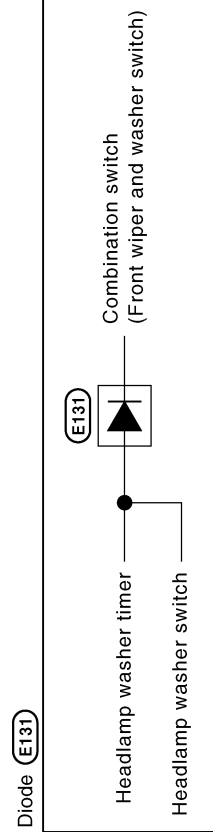
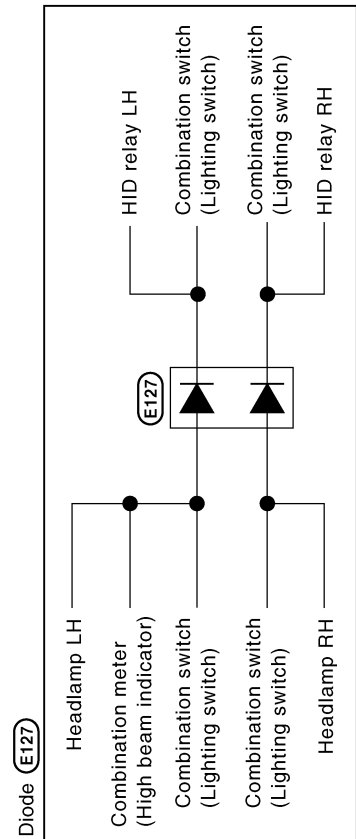
G2	(E47)	GY/2	: Front turn signal lamp LH
E1	(E48)	BR/2	: Side turn signal lamp LH
G1	(E50)	—	: Body ground
G1	(E51)	W/1	: Glow relay
G1	(E52)	W/1	: Glow relay
G1	(E53)	G/2	: Glow relay
F1	(E54)	GY/2	: Option connector for hood switch
E1	(E55)	B/2	: ESP relay box (With ESP)
E1	(E56)	B/8	: ESP relay box (With ESP)
F1	(E58)	—	: Body ground
F2	(E59)	L/2	: Front wheel sensor LH
F1	(E64)	B/6	: To (F5)
E1	(E65)	B/2	: To (F6)
E2	(E67)	DGY/8	: ESP actuator (With ESP)
E2	(E68)	SB/8	: ESP actuator (With ESP)
D1	(E69)	SMJ	: ABS actuator and electric unit (Without ESP)
A1, D2	(E72)	—	: Relay box
C1, C2	(E73)	—	: Relay box
B1	(E76)	—	: Fuse block (With xenon headlamp)
C1	(E77)	L/4	: HID relay LH (With xenon headlamp)
C1	(E78)	L/4	: HID relay RH (With xenon headlamp)
E3	(E79)	DGY/4	: Headlamp RH (With xenon headlamp)
G2	(E80)	DGY/4	: Headlamp LH (With xenon headlamp)

★: 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.**

## Passenger Compartment for Diesel Engine Models



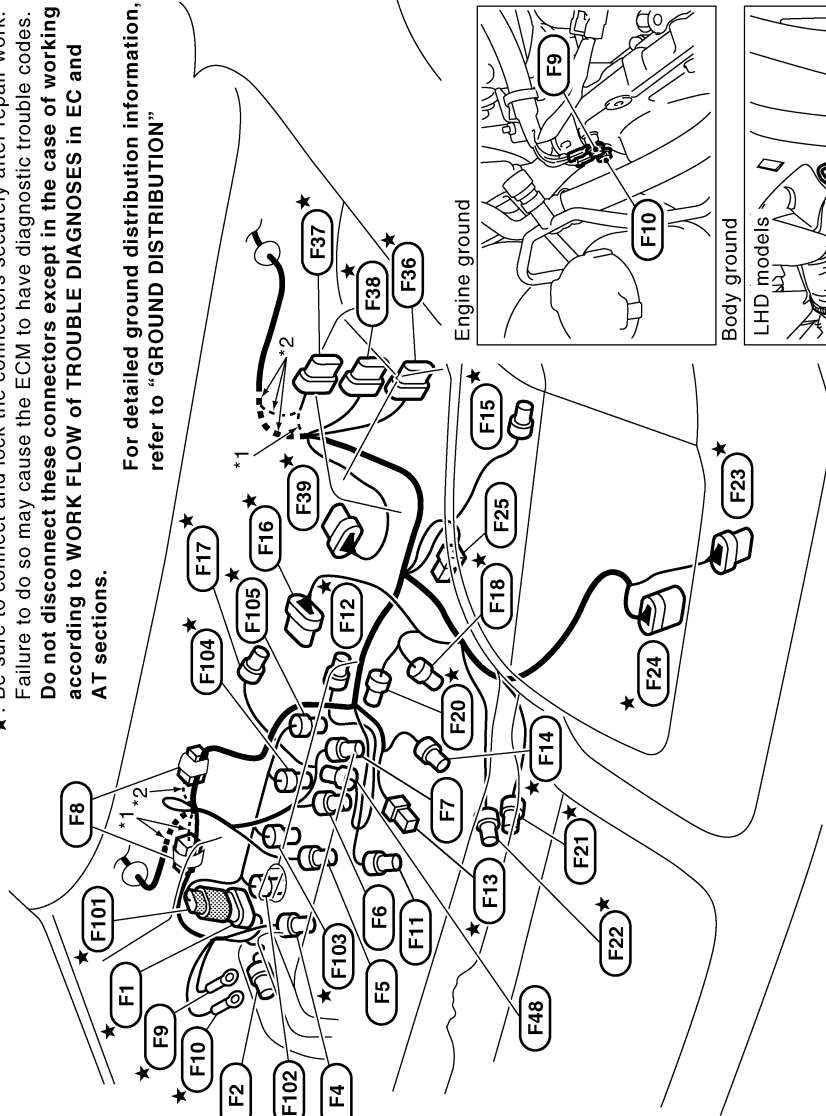
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ENGINE CONTROL HARNESS  
QR25 Engine Models with A/T

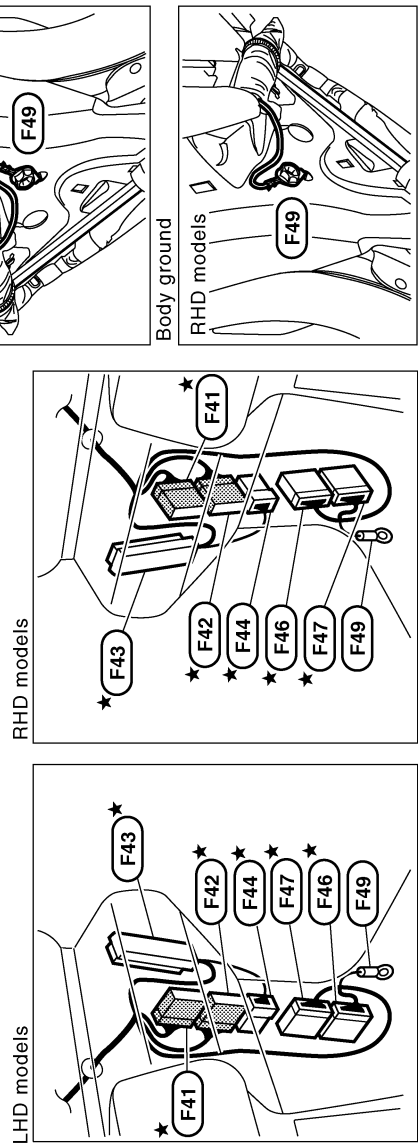
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For detailed ground distribution information, refer to "GROUND DISTRIBUTION"



Engine control harness

- ★ F1 DGY/6 : To (F101)
  - ★ F2 : 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 B/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 B/6 : Mass air flow sensor
  - ★ 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
  - ★ F49 : Body ground
- Engine control sub-harness
- ★ F101 B/6 : To (F1)
  - ★ F102 GY/2 : Fuel injector No. 1
  - ★ F103 GY/2 : Fuel injector No. 2
  - ★ F104 GY/2 : Fuel injector No. 3
  - ★ F105 GY/2 : Fuel injector No. 4
- \*1 : LHD models  
\*2 : RHD models



## QR25 Engine Models with M/T

### Engine control harness

★ 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	B/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)
★ F38	DGY/8	To (E61)
★ F39	B/6	Mass air flow sensor
★ 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
★ F49	—	Body ground

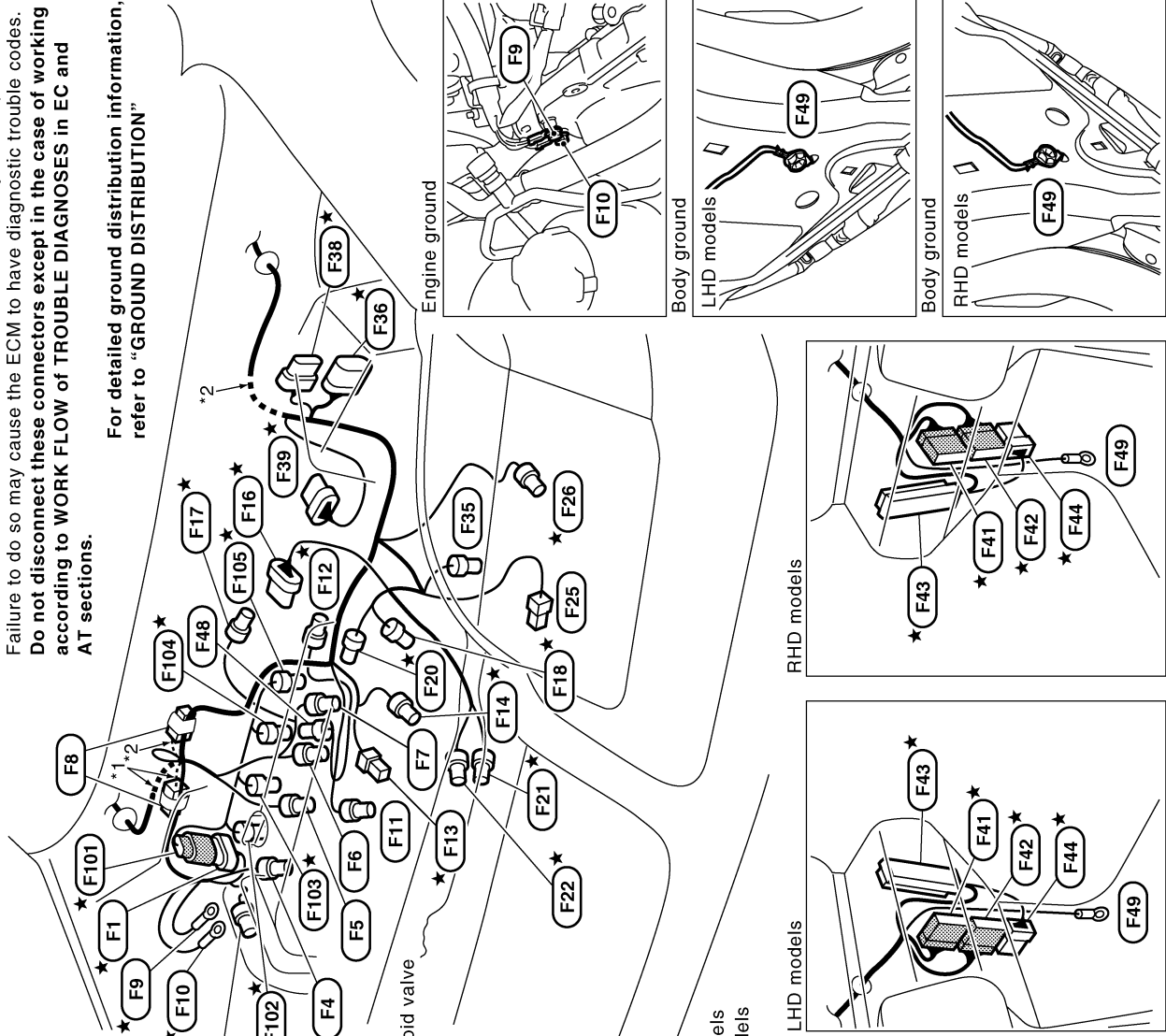
\*1 : LHD models  
\*2 : RHD models

### Engine control sub-harness

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

★ : Be sure to connect and lock the connectors securely after repair work.  
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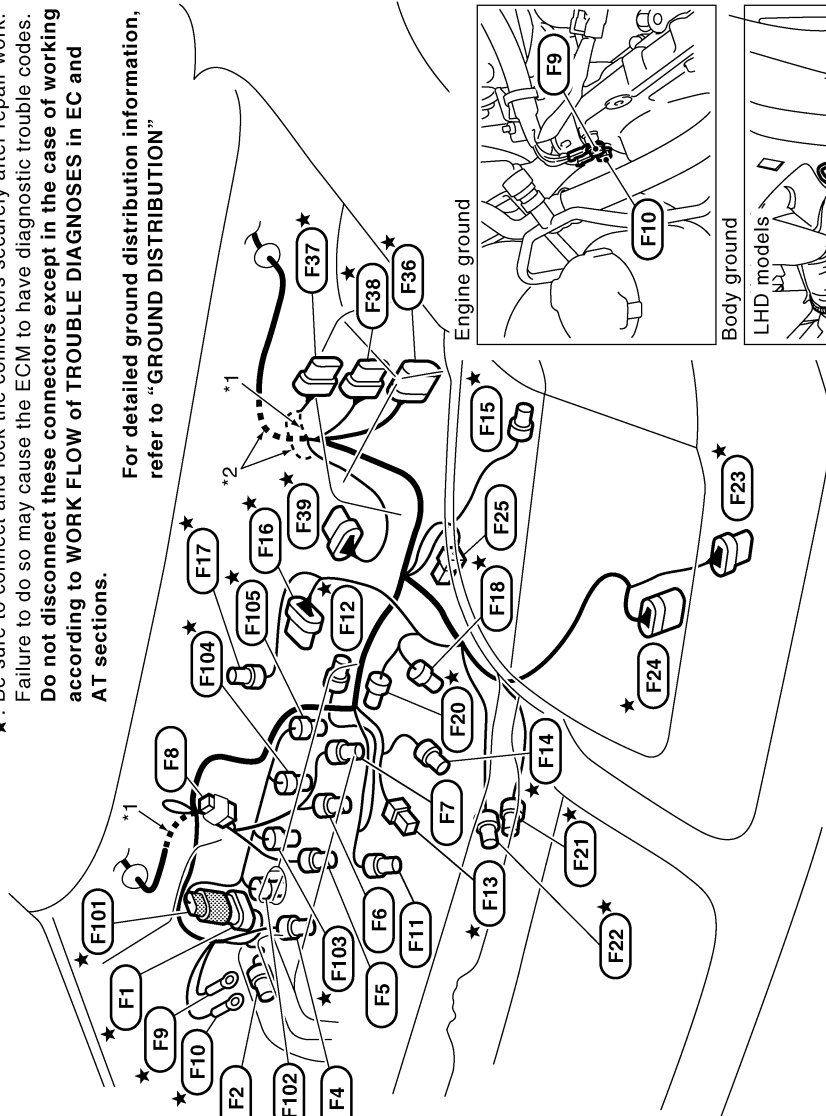
For detailed ground distribution information, refer to "GROUND DISTRIBUTION"



QR20 Engine Models with A/T

★ : 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.

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



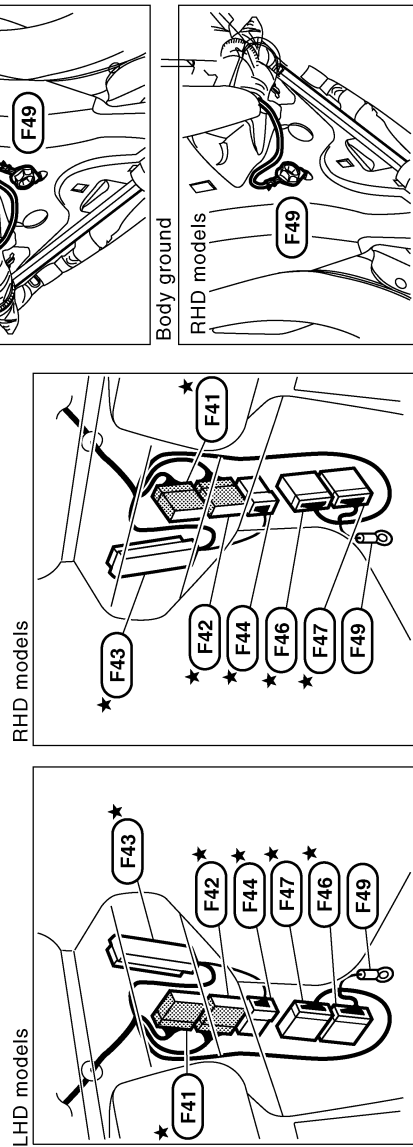
Engine control harness

- ★ 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 B/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 B/6 : Mass air flow sensor
- ★ 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)
- ★ F49 — : Body ground

Engine control sub-harness

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

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



## QR20 Engine Models with M/T

### Engine control harness

★ 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	B/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)
F38	DGY/8	To (E61)
F39	B/6	Mass air flow sensor
F41	BR/24	To (M61)
F43	SMJ	ECM
F44	BR/6	ECM relay
F49	—	Body ground

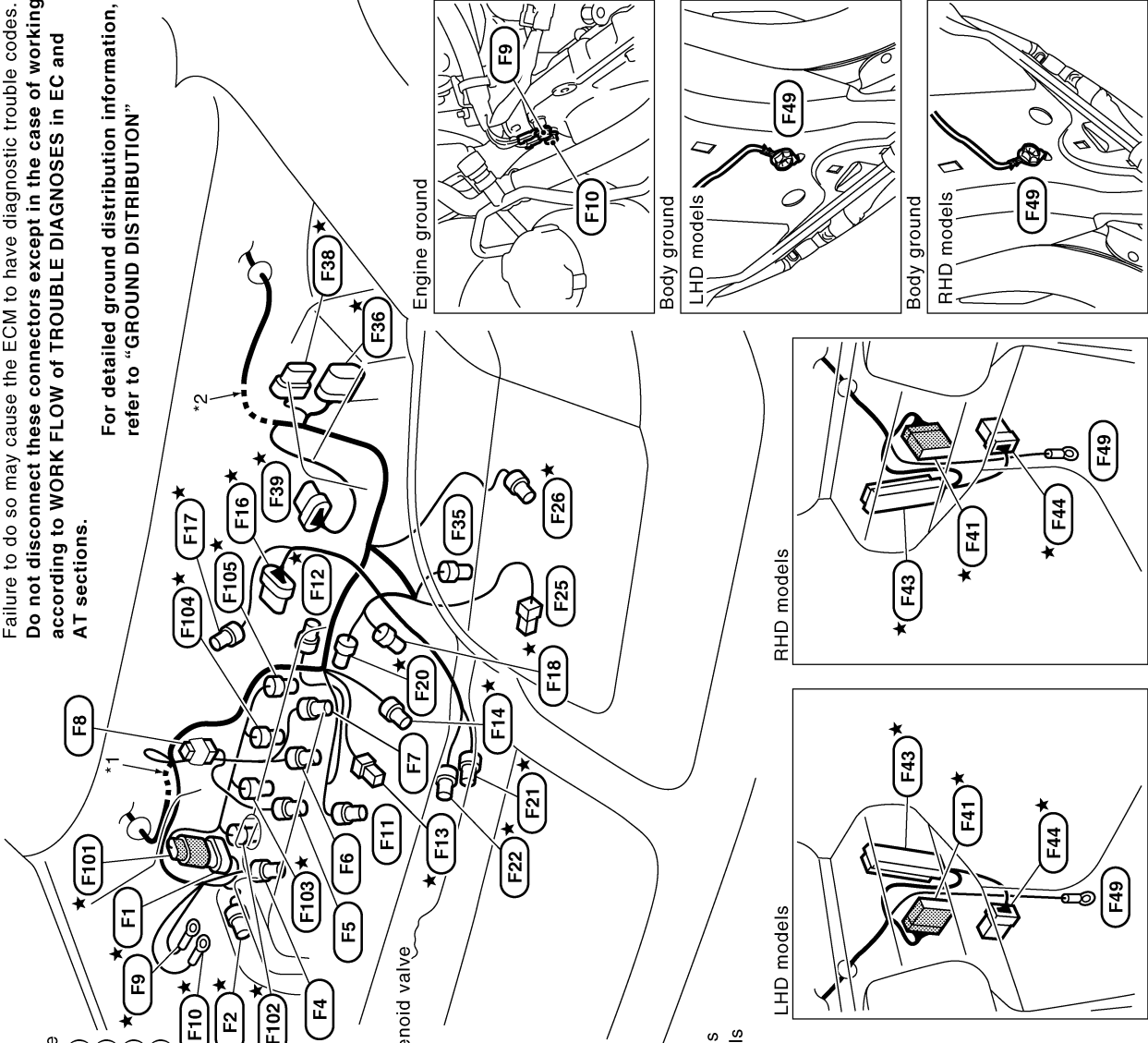
\*1: LHD models  
\*2: RHD models

### Engine control sub-harness

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

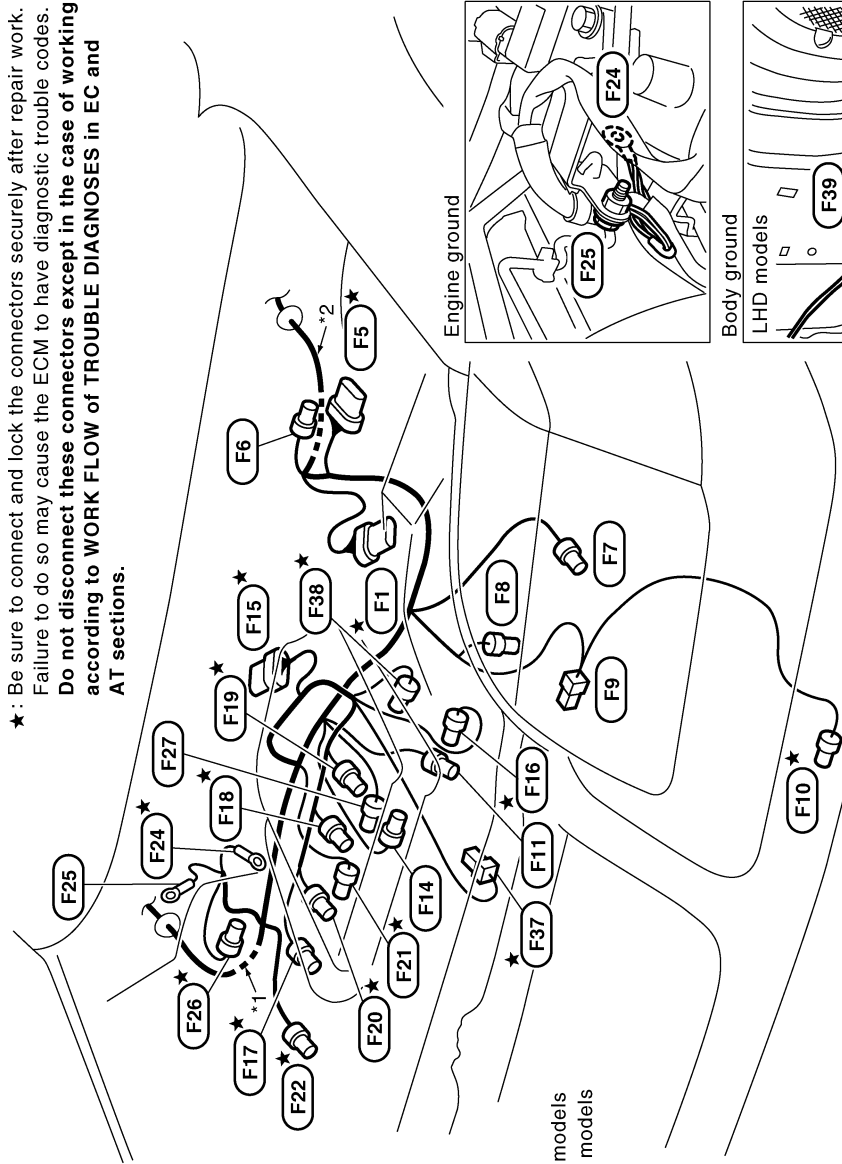
★: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes. Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

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

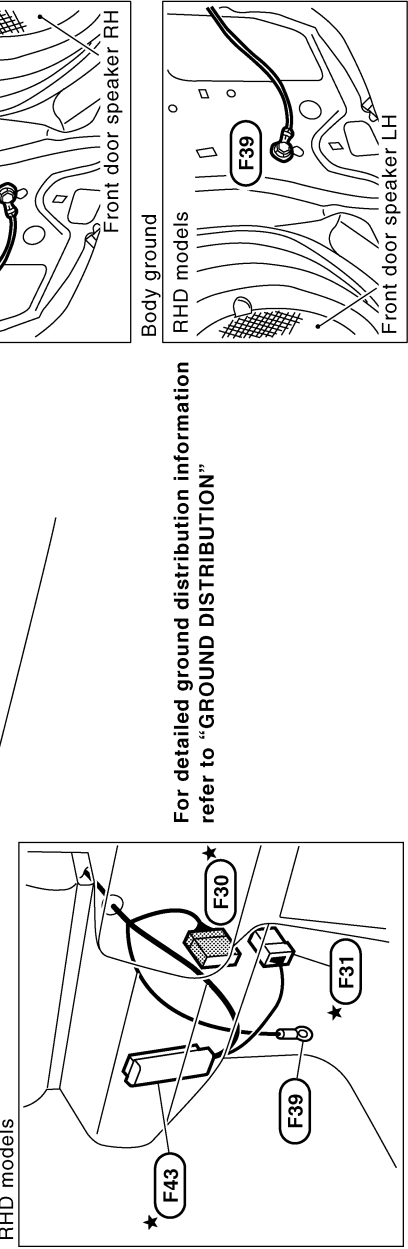


Diesel Engine Models

★: 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.

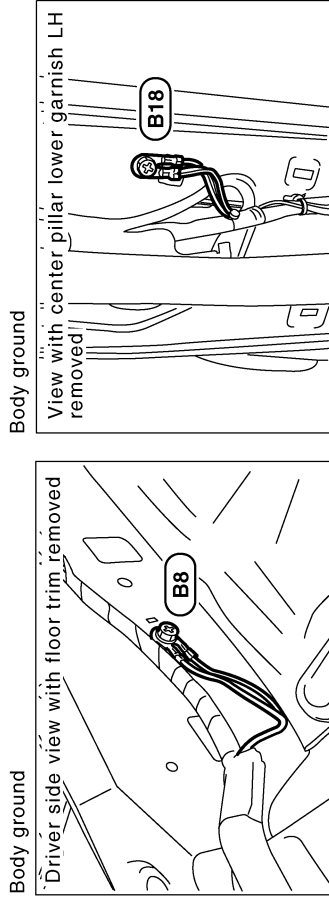


- ★ F1 : Mass air flow sensor
  - ★ F5 : To (E64)
  - F6 : To (E65)
  - F7 : Park/Neutral position switch
  - F8 : Back-up lamp switch
  - F9 : Starter motor
  - F10 : Crankshaft position sensor
  - F11 : Oil pressure switch
  - F14 : Power steering pressure switch
  - F15 : EGR volume control valve
  - ★ F16 : Camshaft position sensor
  - ★ F17 : Fuel injector No. 1
  - ★ F18 : Fuel injector No. 3
  - ★ F19 : Fuel injector No. 4
  - ★ F20 : Fuel injector No. 2
  - ★ F21 : Fuel pump temperature sensor
  - ★ F22 : Engine coolant temperature sensor
  - ★ F24 : Engine ground
  - ★ F25 : Engine ground
  - ★ F26 : Fuel rail pressure sensor
  - ★ F27 : Fuel pump
  - ★ F30 : To (M63)
  - ★ F31 : ECM relay
  - ★ F37 : Turbocharger boost control solenoid valve
  - ★ F38 : Turbocharger boost sensor
  - ★ F39 : Body ground
  - ★ F43 : SMJ : ECM
- \*1: LHD models  
\*2: RHD models

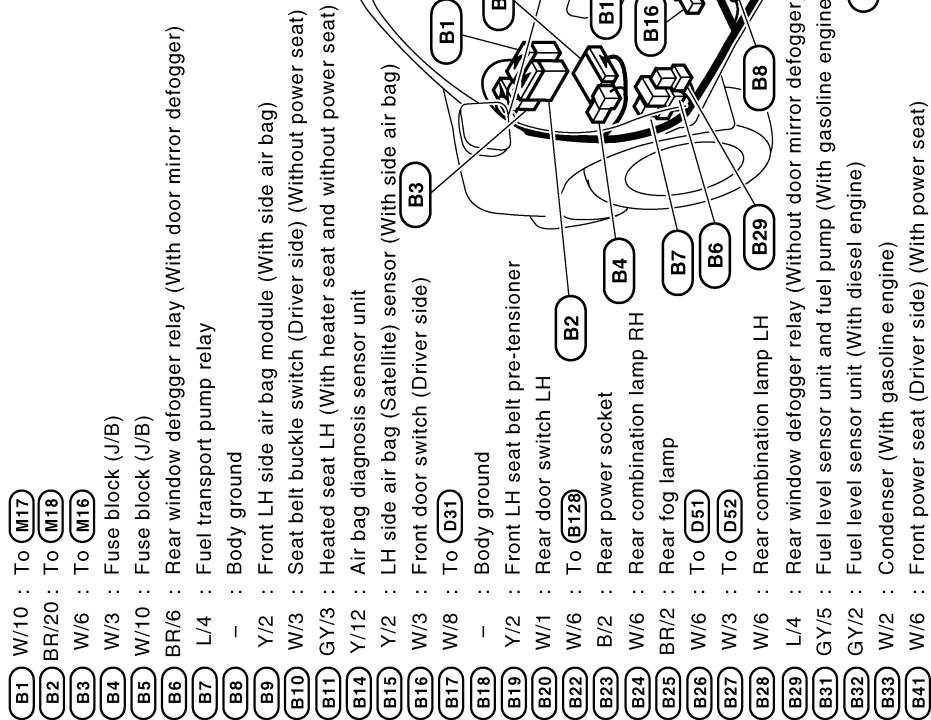


For detailed ground distribution information refer to "GROUND DISTRIBUTION"

## BODY HARNESS/LHD MODELS

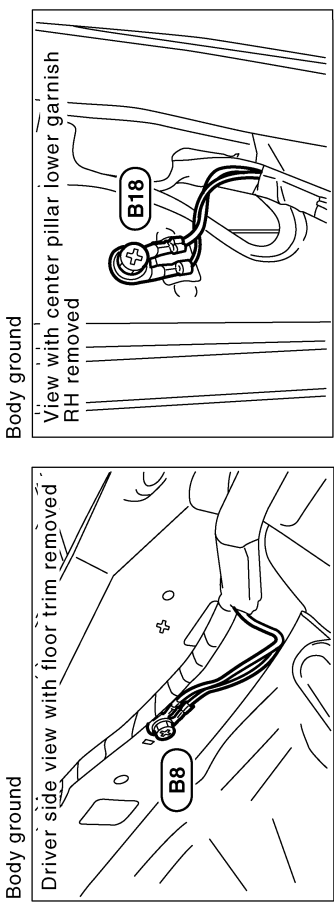


For detailed ground distribution information, refer to "GROUND DISTRIBUTION".





BODY HARNESS/RHD MODELS



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

- 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 transport pump relay
- 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) (Without power seat)
- B11

GY/3 : Heated seat RH (With heater seat and without power 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 B12B
- 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

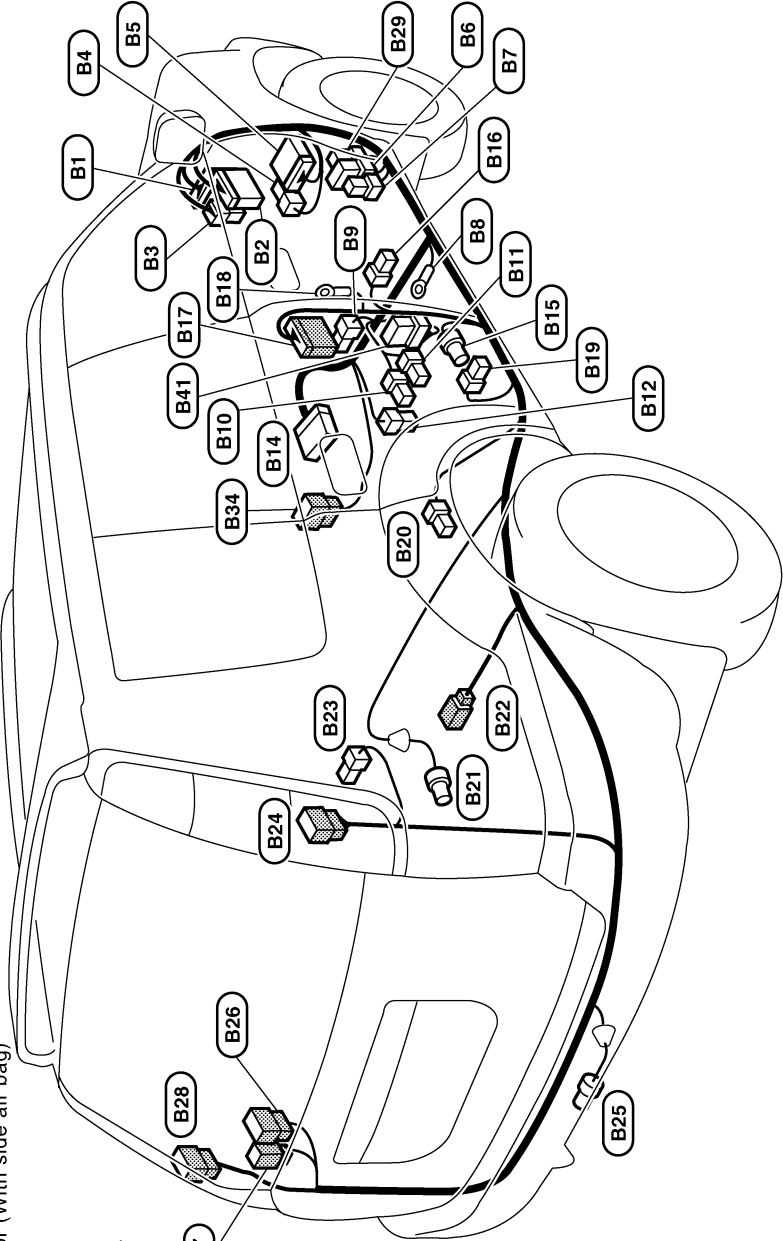
W/3 : To D52
- B28

W/6 : Rear combination lamp LH
- B29

L/4 : Rear window defogger relay (Without door mirror defogger)
- B34

W/8 : Heated seat switch
- B41

W/6 : Front power seat (Driver side) (With power seat)



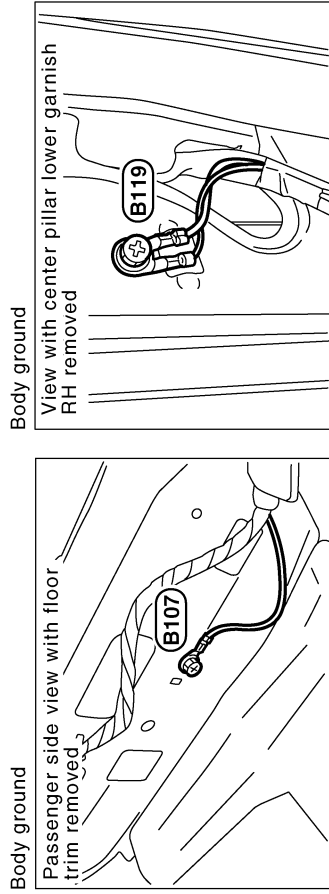
## BODY NO. 2 HARNESS/LHD MODELS

### Body No.2 harness

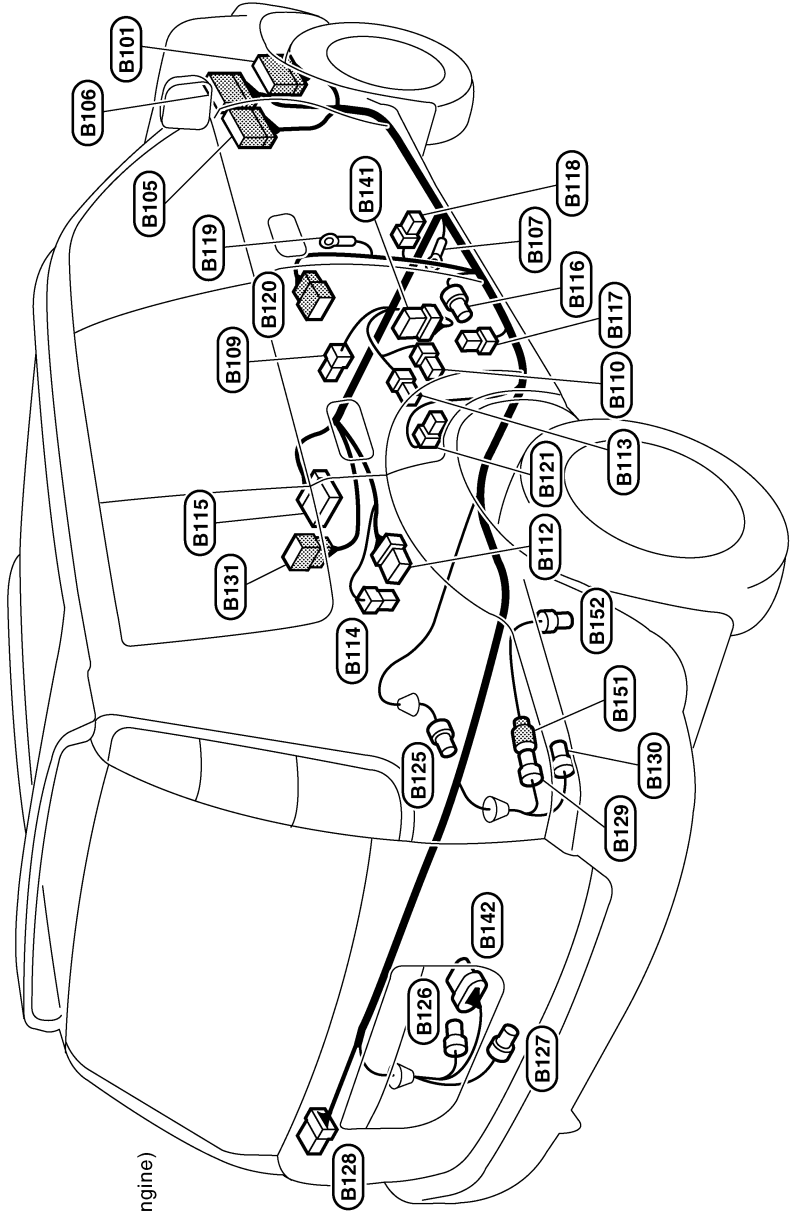
- (B101) W/10 : To (E117)
- (B105) W/12 : To (M78)
- (B106) W/10 : To (M79)
- (B107) — : Body ground
- (B109) Y/2 : Front RH side air bag module (With side air bag)
- (B110) GY/3 : Heated seat RH (With heater seat and without power seat)
- (B112) B/6 : Yaw rate / G sensor
- (B113) W/3 : Seat belt buckle switch (Passenger side) (Without power seat)
- (B114) B/1 : Parking brake switch
- (B115) Y/12 : Air bag diagnosis sensor unit
- (B116) Y/2 : RH side air bag (Satellite) sensor (With side air bag)
- (B117) Y/2 : Front RH seat belt pre-tensioner
- (B118) W/3 : Front door switch (Passenger side)
- (B119) — : Body ground
- (B120) W/8 : To (D21)
- (B121) W/1 : Rear door switch RH
- (B125) GY/4 : Sub fuel level sensor unit
- (B126) L/2 : Rear wheel sensor LH
- (B127) GY/2 : Fuel transport pump (With diesel engine)
- (B128) W/6 : To (B22)
- (B129) B/2 : To (B151)
- (B130) GY/2 : Rear wheel sensor RH
- (B131) W/8 : Heated seat switch
- (B141) W/6 : Front power seat (Passenger side) (With power seat)
- (B142) GY/6 : To Height sensor (With xenon headlamp)

### Transmission sub-harness

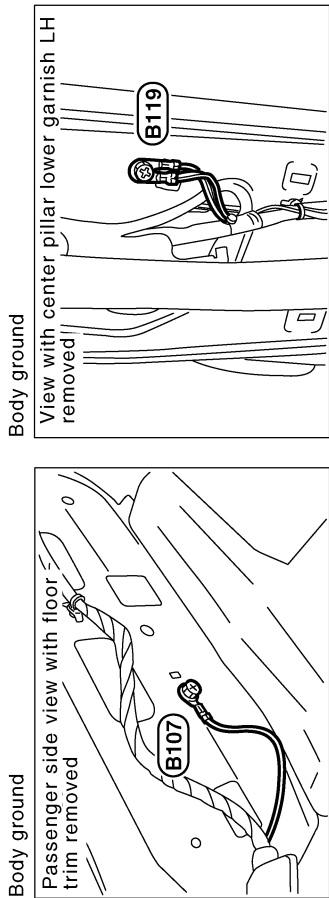
- (B151) B/2 : To (B129)
- (B152) GY/2 : 4WD solenoid



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



BODY NO. 2 HARNESS/RHD MODELS



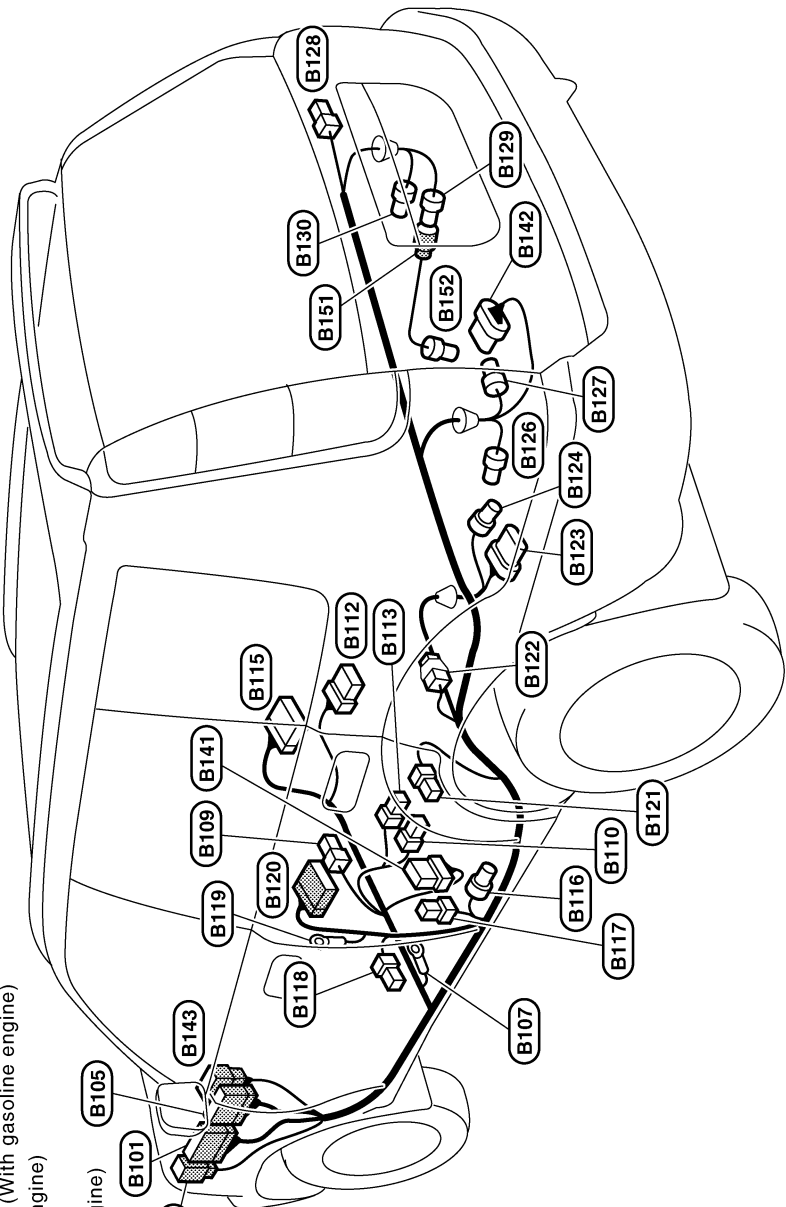
For detailed ground distribution information, refer to "GROUND DISTRIBUTION".

Body No.2 harness

- B101 W/10 : To E117
- B105 BR/16 : To M78
- B107 — : Body ground
- B109 Y/2 : Front LH side air bag module (With side air bag)
- B110 GY/3 : Heated seat LH (With heater seat and without power seat)
- B112 B/6 : Yaw rate / G sensor
- B113 W/3 : Seat belt buckle switch (Passenger side) (Without power seat)
- 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)
- B126 L/2 : Rear wheel sensor LH
- B127 GY/2 : Fuel transport pump (With diesel engine)
- B128 W/4 : To B22
- B129 B/2 : To B151
- B130 GY/2 : Rear wheel sensor RH
- B133 W/4 : To E126
- B141 W/6 : Front power seat (Passenger side) (With power seat)
- B142 GY/6 : To Height sensor (With xenon headlamp)
- B143 W/6 : To M124 (With xenon headlamp)

Transmission sub-harness

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



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HARNESS

ROOM LAMP HARNESS

- R1

W/8

:

To (M73)
- R2

W/2

:

Map lamp (Without sunroof)
- 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
- R8

—

:

Body ground
- R9

GY/2

:

Driving lamp LH
- R10

W/3

:

Driving lamp RH
- R11

W/3

:

Map lamp (With sunroof)
- R12

W/3

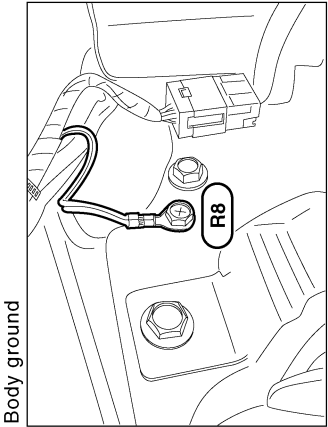
:

Read lamp LH
- R13

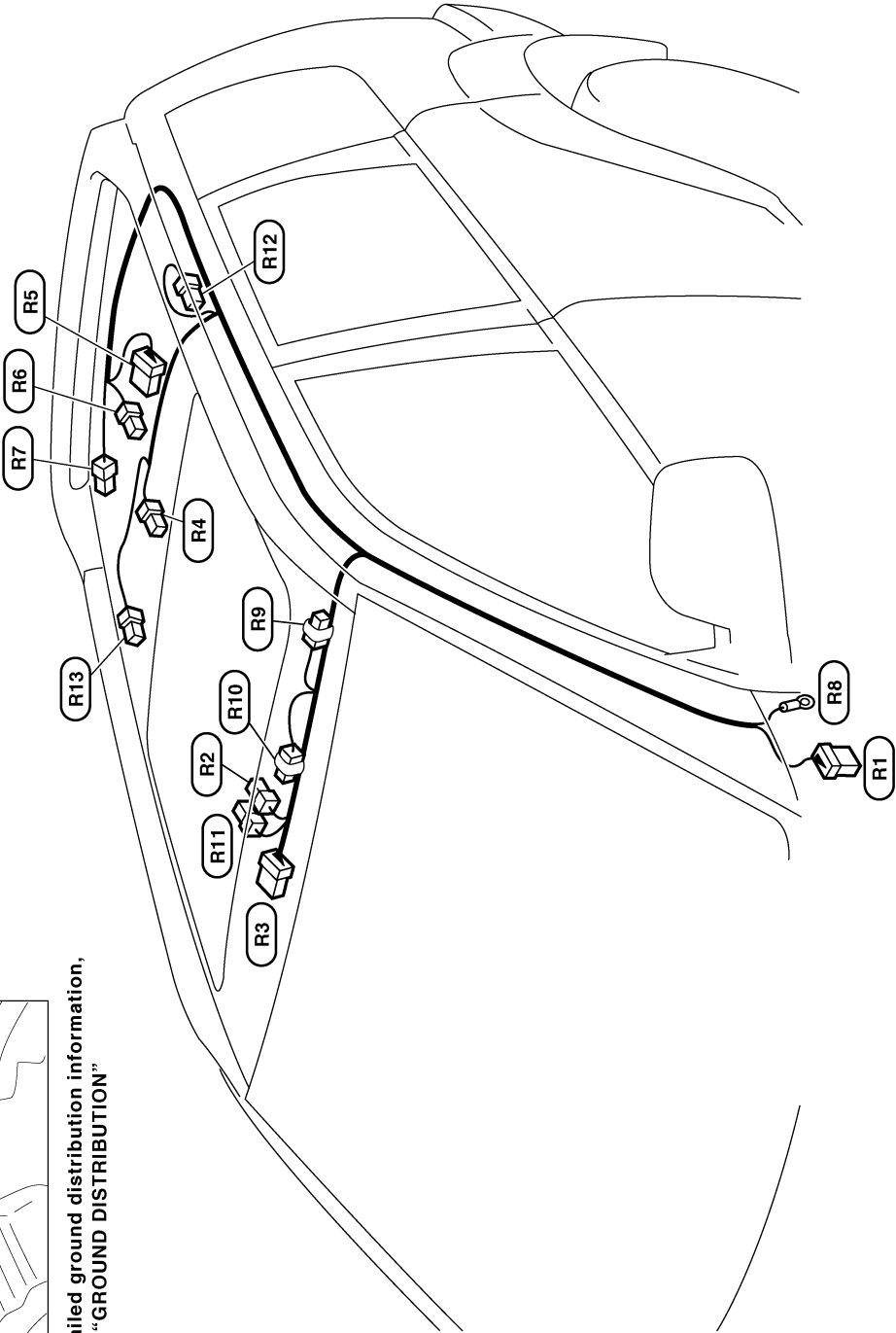
W/3

:

Read lamp RH



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

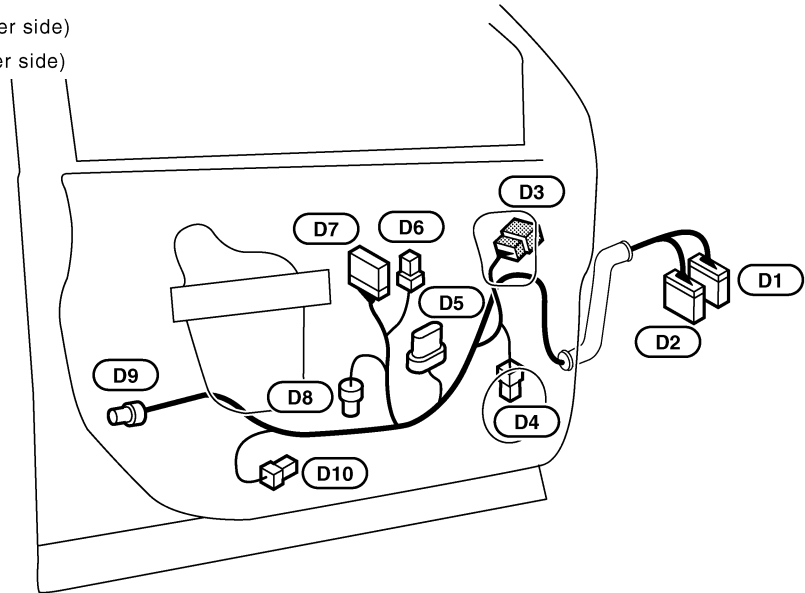


# HARNESS

## FRONT DOOR HARNESS/LHD MODELS

### LH Side

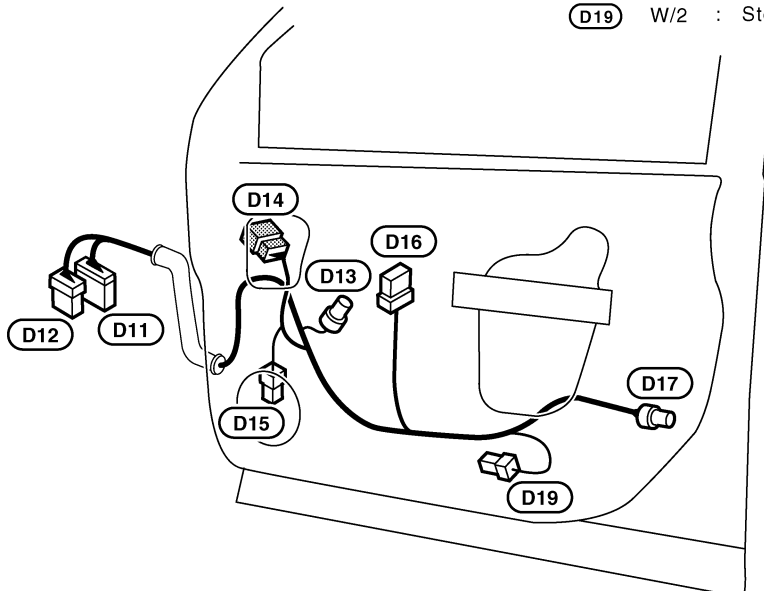
- (D1) W/16 : To (M21)
- (D2) BR/12 : To (M22)
- (D3) W/8 : Door mirror actuator (Driver side)
- (D4) W/2 : Front door speaker LH
- (D5) GY/6 : Front power window motor (Driver side)
- (D6) W/3 : Power window main switch
- (D7) W/16 : Power window main switch
- (D8) BR/3 : Door key cylinder switch (Driver side)
- (D9) GY/4 : Front door lock actuator (Driver side)
- (D10) W/2 : Step lamp (Driver side)



TKIA0156E

### RH Side

- (D11) W/12 : To (M77)
- (D12) BR/8 : To (M76)
- (D13) BR/2 : Front power window motor (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)
- (D19) W/2 : Step lamp (Passenger side)



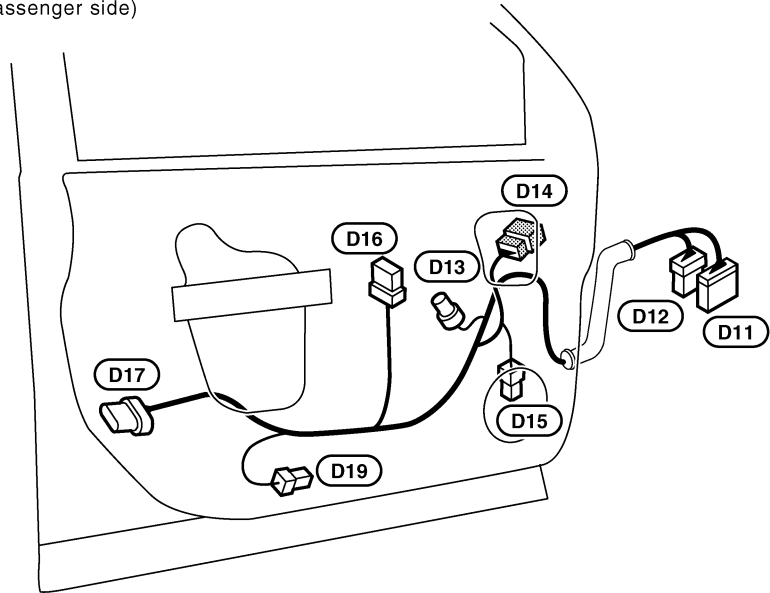
TKIA0157E

# HARNESS

## FRONT DOOR HARNESS/RHD MODELS

### LH Side

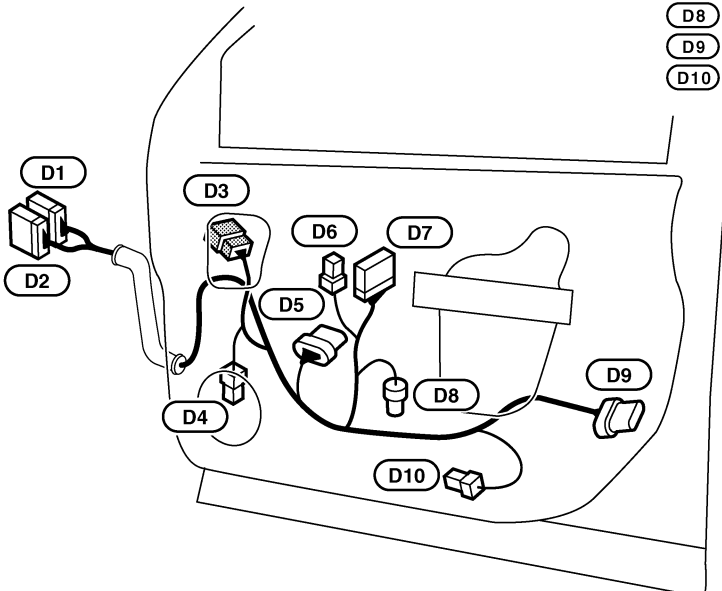
- (D11) W/12 : To (M77)
- (D12) BR/8 : To (M76)
- (D13) BR/2 : Front power window motor (Passenger side)
- (D14) W/8 : Door mirror actuator (Passenger side)
- (D15) W/2 : Front door speaker LH
- (D16) W/8 : Front power window switch (Passenger side)
- (D17) B/6 : Front door lock actuator (Passenger side)
- (D19) W/2 : Step lamp (Passenger side)



TKIA0159E

### RH 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 motor (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)
- (D10) W/2 : Step lamp (Driver side)



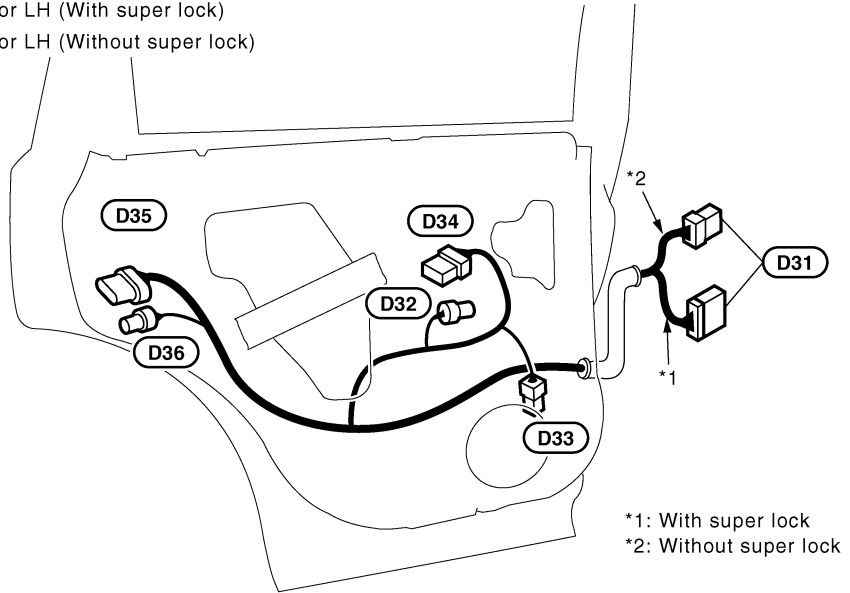
TKIA0158E

# HARNESS

## REAR DOOR HARNESS

### LH Side

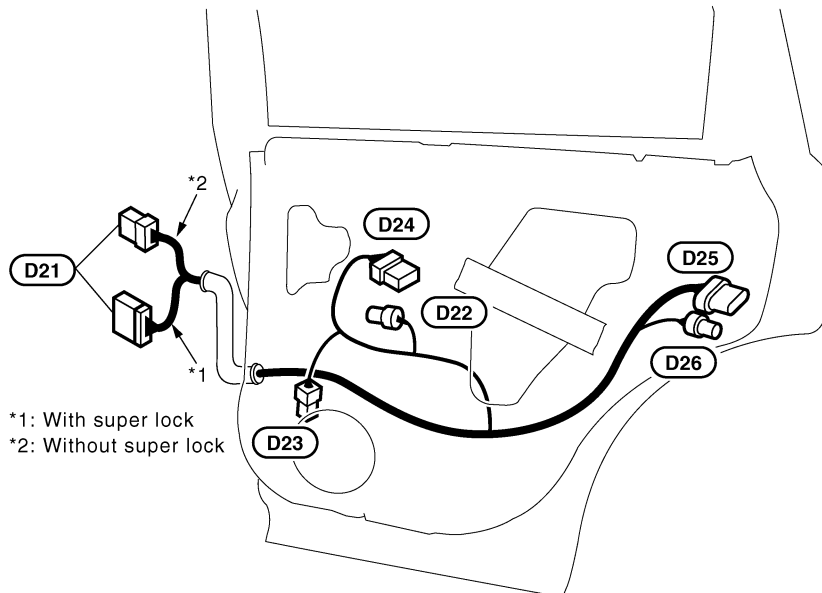
- (D31) W/8 : To (B17) (LHD models) (Without super lock)
- W/10 : To (B120) (RHD models) (With super lock)
- (D32) BR/2 : Rear power window motor LH
- (D33) W/2 : Rear door speaker LH
- (D34) W/8 : Rear power window switch LH
- (D35) B/6 : Rear door lock actuator LH (With super lock)
- (D36) GY/4 : Rear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



TKIA0160E

### RH Side

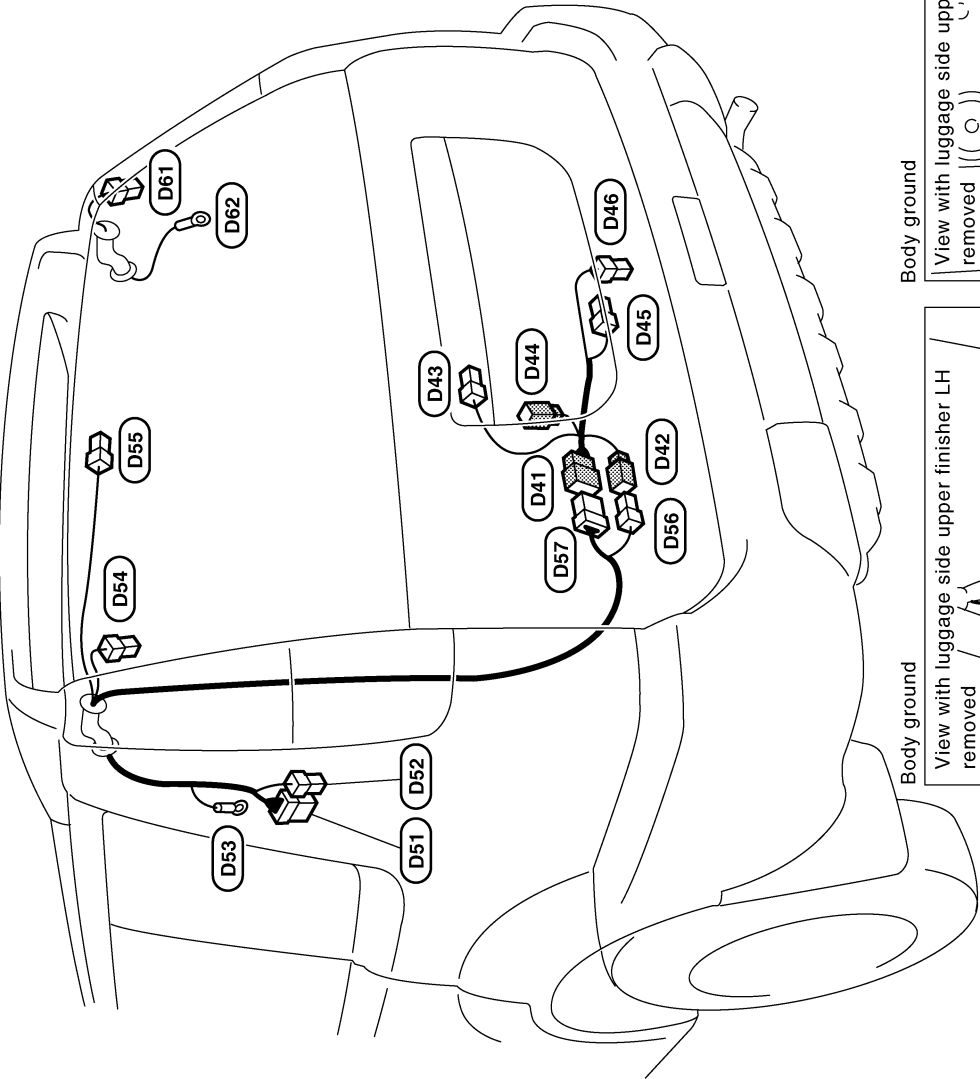
- (D21) W/10 : To (B17) (RHD models) (With super lock)
- W/8 : To (B120) (LHD models) (Without super lock)
- (D22) BR/2 : Rear power window motor RH
- (D23) W/2 : Rear door speaker RH
- (D24) W/8 : Rear power window switch RH
- (D25) B/6 : Rear door lock actuator RH (With super lock)
- (D26) GY/4 : Rear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



TKIA0161E

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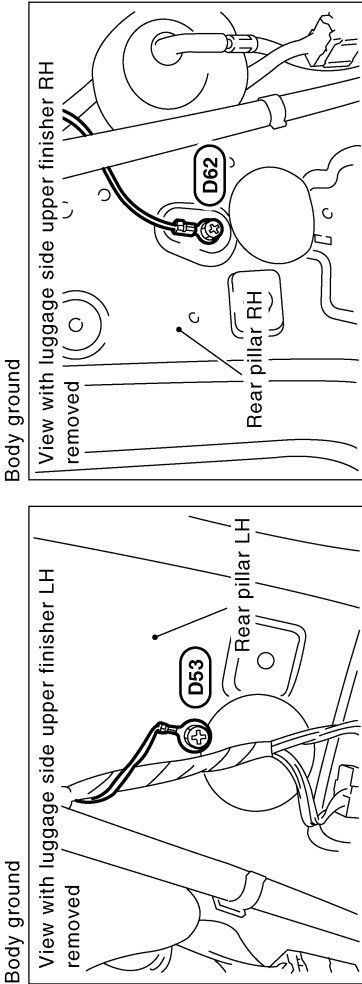
BACK DOOR HARNESS



- Back door harness**
- D41 W/6 : To D57
  - D42 B/2 : To D56
  - D43 W/4 : Rear wiper motor
  - D44 W/2 : License lamp
  - D45 W/3 : Back door switch
  - D46 W/4 : Back door lock actuator

- Back door sub-harness**
- D51 W/6 : To B26
  - D52 W/3 : To B27
  - D53 — : Body ground
  - D54 W/1 : Rear window defogger (+)
  - D55 W/2 : High-mounted stop lamp
  - D56 B/2 : To D42
  - D57 W/6 : To D41

- Rear window defogger harness**
- D61 W/1 : 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	TF	4WD Control system
A/C	ATC	Air Conditioner
ABS	BRC	Anti-Lock Brake System
APP1PW	EC	Accelerator Pedal Position Sensor 1 Power Supply
APP2PW	EC	Accelerator Pedal Position Sensor 2 Power Supply
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASC/BS	EC	Automatic Speed Control Device (ASCD) Brake Switch
ASC/SW	EC	Automatic Speed Control Device (ASCD) Steering Switch
ASCBOF	EC	Automatic Speed Control Device (ASCD) Brake Switch
ASCIND	EC	Automatic Speed Control Device (ASCD) Indicator
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
BA/FTS	AT	A/T Fluid Temperature Sensor and TCM Power Supply
BACK/L	LT	Back-Up Lamp
BOOST	EC	Turbocharger Boost Sensor
BRK/SW	EC	Brake Switch
CAN	AT	CAN Communication Line
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
CIGAR	WW	Cigarette Lighter
CKPS	EC	Crankshaft Position Sensor
CLOCK	DI	Clock
CMPS	EC	Camshaft Position Sensor
COOL/F	EC	Cooling Fan Control
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DTRL	LT	Headlamp - With Daytime Light System
ECM/PW	EC	ECM Power Supply for Back-Up
ECMRLY	EC	ECM Relay
ECTS	EC	Engine Coolant Temperature Sensor
EGRVLV	EC	EGR Volume Control Valve
EGVC/V	EC	EGR Volume Control Valve
ENGSS	AT	Engine Speed Signal

# HARNESS

Code	Section	Wiring Diagram Name
ESP	BRC	ESP/TCS/ABS Control System
ETC1	EC	Electric Throttle Control Function
ETC2	EC	Electric Throttle Control Motor Relay
ETC3	EC	Electric Throttle Control Motor
F/FOG	LT	Front Fog Lamp
F/PUMP	EC	Fuel Pump
FIAR	EC	Fuel Injector Adjustment Resistor
FRO2	EC	Front Heated Oxygen Sensor
FRO2/H	EC	Front Heated Oxygen Sensor Heater
FRPS	EC	Fuel Rail Pressure Sensor
FTP	EC	Fuel Transport Pump
FTS	AT	A/T Fluid Temperature Sensor Circuit
FTS	EC	Fuel Temperature Sensor
FUEL	EC	Fuel Injection System Function
GLORLY	EC	Glow Relay
GLOW	EC	Glow Control System
H/AIM	LT	Headlamp Aiming Control System
H/LAMP	LT	Headlamp
HEATER	MTC	Heater System
HLC	WW	Headlamp Cleaner
HO2S1	EC	Heated Oxygen Sensor 1
HO2S1H	EC	Heated Oxygen Sensor 1 Heater
HO2S2	EC	Heated Oxygen Sensor 2
HO2S2H	EC	Heated Oxygen Sensor 2 Heater
HORN	WW	Horn
HSEAT	SE	Heated Seat
IATS	EC	Intake Air Temperature Sensor
IATSEN	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System
ILL	LT	Illumination
INJ/PW	EC	Fuel Injector Power Supply Circuit
INJECT	EC	Fuel Injector
INT/L	LT	Map Lamp
IVC	EC	Intake Valve Timing Control Solenoid Valve
KS	EC	Knock Sensor
LOAD	EC	Electrical Load Signal
LPSV	AT	Line Pressure Solenoid Valve
MAFS	EC	Mass Air Flow Sensor
MAIN	AT	Main Power Supply and Ground Circuit
MAIN	EC	Main Power Supply and Ground Circuit
METER	DI	Speedometer, Tachometer, Temp. and Fuel Gauges
MIL/DL	EC	MIL & Data Link Connector
MIRROR	GW	Door Mirror
MULTI	BL	Multi-Remote Control System

# HARNESS

Code	Section	Wiring Diagram Name	
NATS	BL	Nissan Anti-Theft System	A
NAVI	AV	Navigation System	
NONDTC	AT	Non-Detective Items	B
OVRCSV	AT	Overrun Clutch Solenoid Valve	
P/SCKT	WW	Power Socket	C
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve	
PHASE	EC	Camshaft Position Sensor (PHASE)	D
PHONE	AV	Telephone (Pre-wire)	
PNP/SW	AT	Park/Neutral Position Switch	E
PNP/SW	EC	Park/Neutral Position Switch	
PNPSW1	EC	Park/Neutral Position Switch	F
POS	EC	Crankshaft Position Sensor (CKPS) (POS)	
POWER	PG	Power Supply Routing	G
PRGVLV	EC	EVAP Canister Purge Volume Control Solenoid Valve	
PRWIRE	BL	Theft Warning System (Pre-wire)	H
PS/SEN	EC	Power Steering Pressure Sensor	
PST/SW	EC	Power Steering Oil Pressure Switch	I
R/FOG	LT	Rear Fog Lamp	
ROOM/L	LT	Interior Room Lamp	J
RP/SEN	EC	Refrigerant Pressure Sensor	
RRO2	EC	Rear Heated Oxygen Sensor	PG
RRO2/H	EC	Rear Heated Oxygen Sensor Heater	
S/LOCK	BL	Power Door Lock - Super Lock	L
S/SIG	EC	Start Signal	
S/WARN	SB	Seat Belt Warning System	M
SEAT	SE	Power Seat	
SEN/PW	EC	Sensor Power Supply	
SHIFT	AT	A/T Shift Lock System	
SROOF	RF	Sunroof	
SRS	SRS	Supplemental Restraint System	
SSV/A	AT	Shift Solenoid Valve A	
SSV/B	AT	Shift Solenoid Valve B	
START	SC	Starting System	
STEP/L	LT	Step Lamp	
STOP/L	LT	Stop Lamp	
TAIL/L	LT	Parking, License and Tail Lamps	
TCC/V	EC	Turbocharger Boost Control Solenoid Valve	
TCCSV	EC	Turbocharger Boost Control Solenoid Valve	
TCV	AT	Torque Converter Clutch Solenoid Valve	
TPS	AT	Throttle Position Sensor	
TPS1	EC	Throttle Position Sensor (Sensor 1)	
TPS2	EC	Throttle Position Sensor (Sensor 2)	
TPS3	EC	Throttle Position Sensor	
TURN	LT	Turn Signal and Hazard Warning Lamp	

## HARNESS

Code	Section	Wiring Diagram Name
VIAS	EC	Variable Induction Air Control System
VSSA/T	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

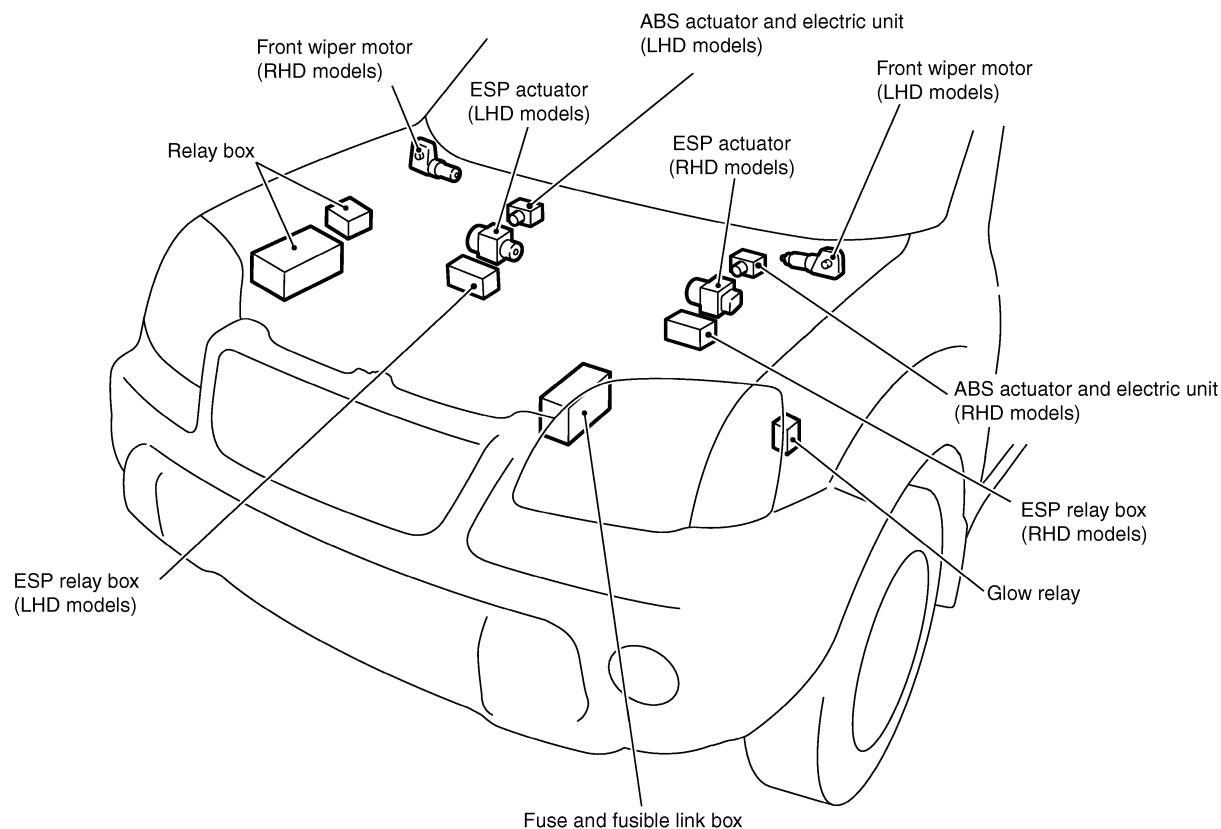
# ELECTRICAL UNITS LOCATION

## ELECTRICAL UNITS LOCATION

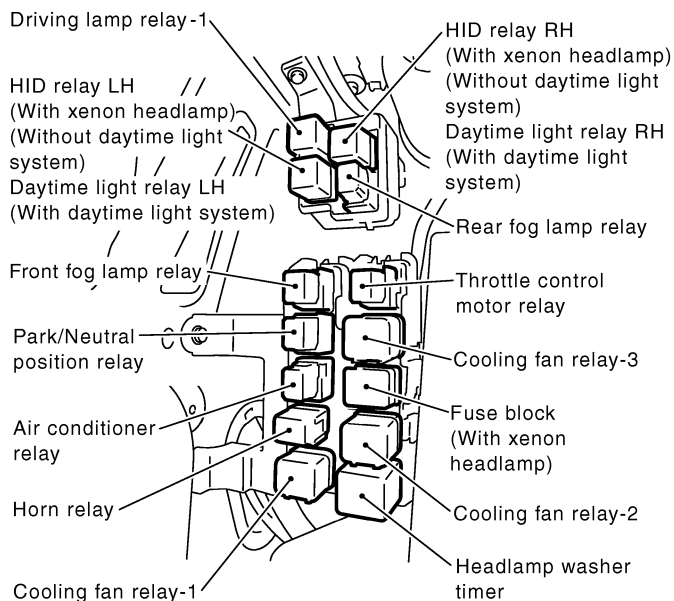
PFP:25230

### Electrical Units Location ENGINE COMPARTMENT

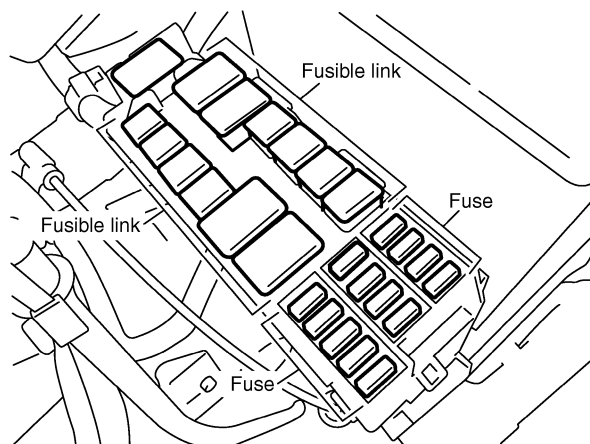
EKS0032K



#### Relay box

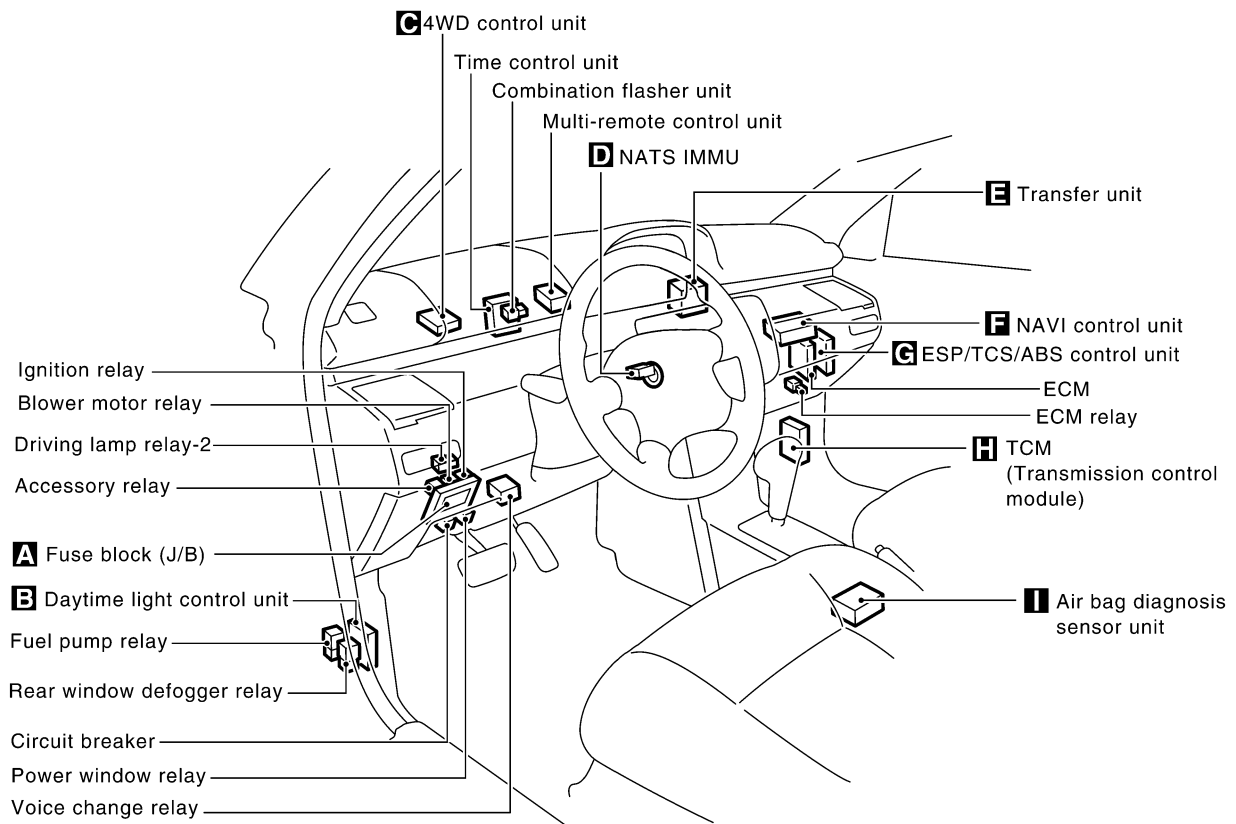


#### Fuse and fusible link box

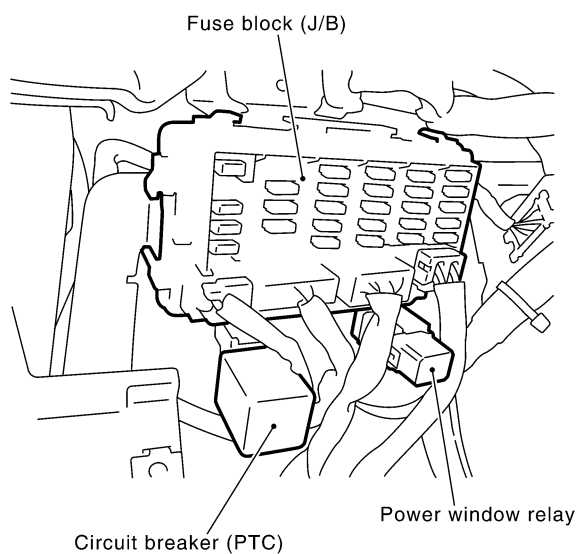


# ELECTRICAL UNITS LOCATION

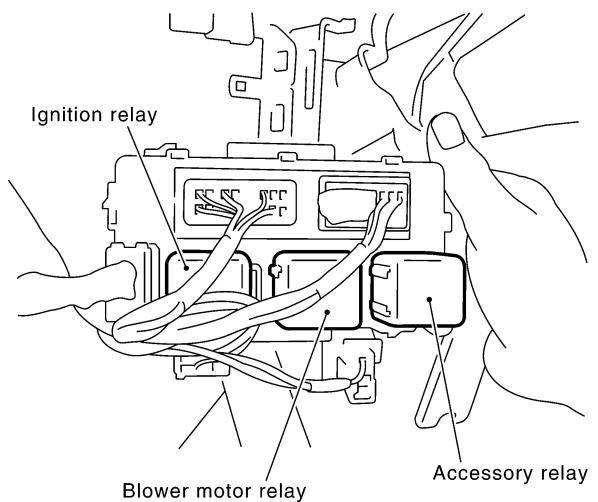
## PASSENGER COMPARTMENT/LHD MODELS



**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

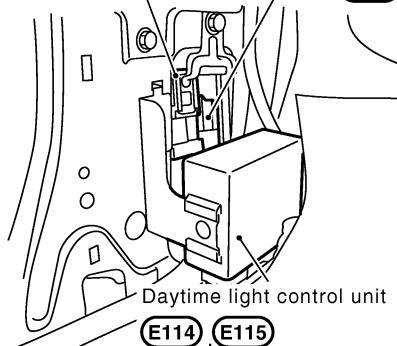
**B** Driver side view with dash side lower finisher removed

Rear window defogger relay

**B6** (With door mirror defogger)

**B29** (Without door mirror defogger)

Fuel pump relay **B7**



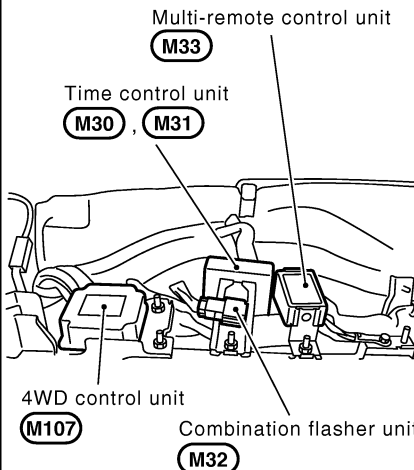
**C** Driver side view with upper instrument panel removed

Multi-remote control unit **M33**

Time control unit **M30**, **M31**

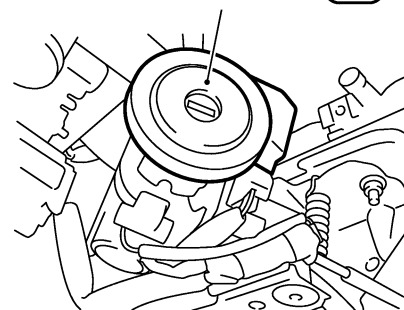
4WD control unit **M107**

Combination flasher unit **M32**



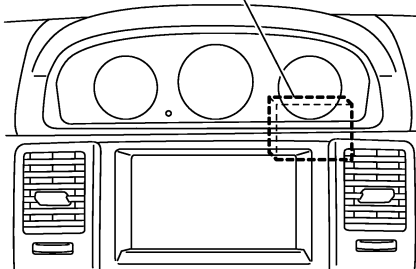
**D**

NATS IMMU **E109**



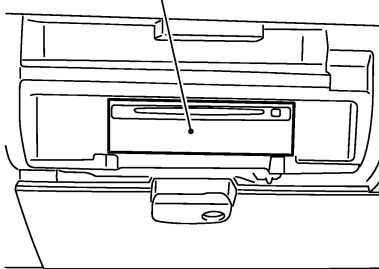
**E** View with instrument panel center

Transfer unit **M111**



**F** Upper glove box

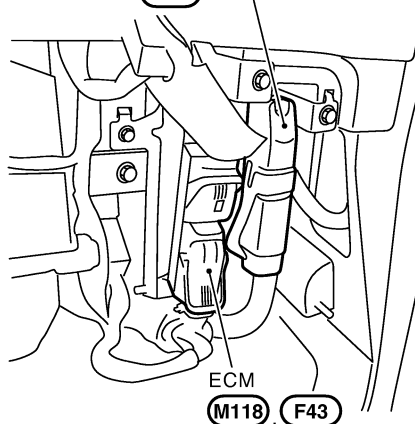
NAVI control unit **M116**, **M117**



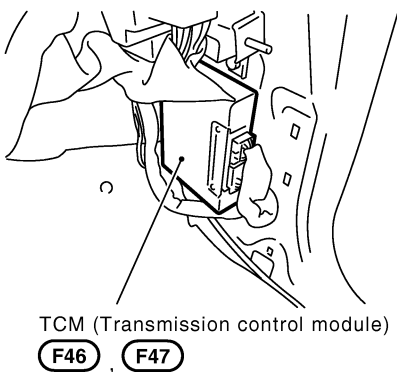
**G** Behind lower instrument panel on passenger side

ESP/TCS/ABS control unit **E122**

ECM **M118**, **F43**

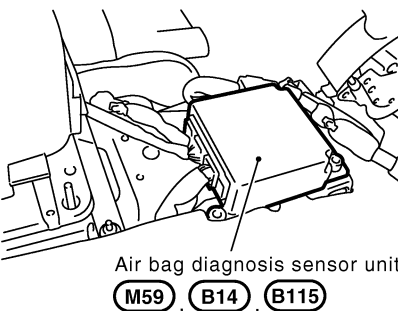


**H** Passenger side view with dash side lower finisher removed



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

**I** Behind the console box assembly

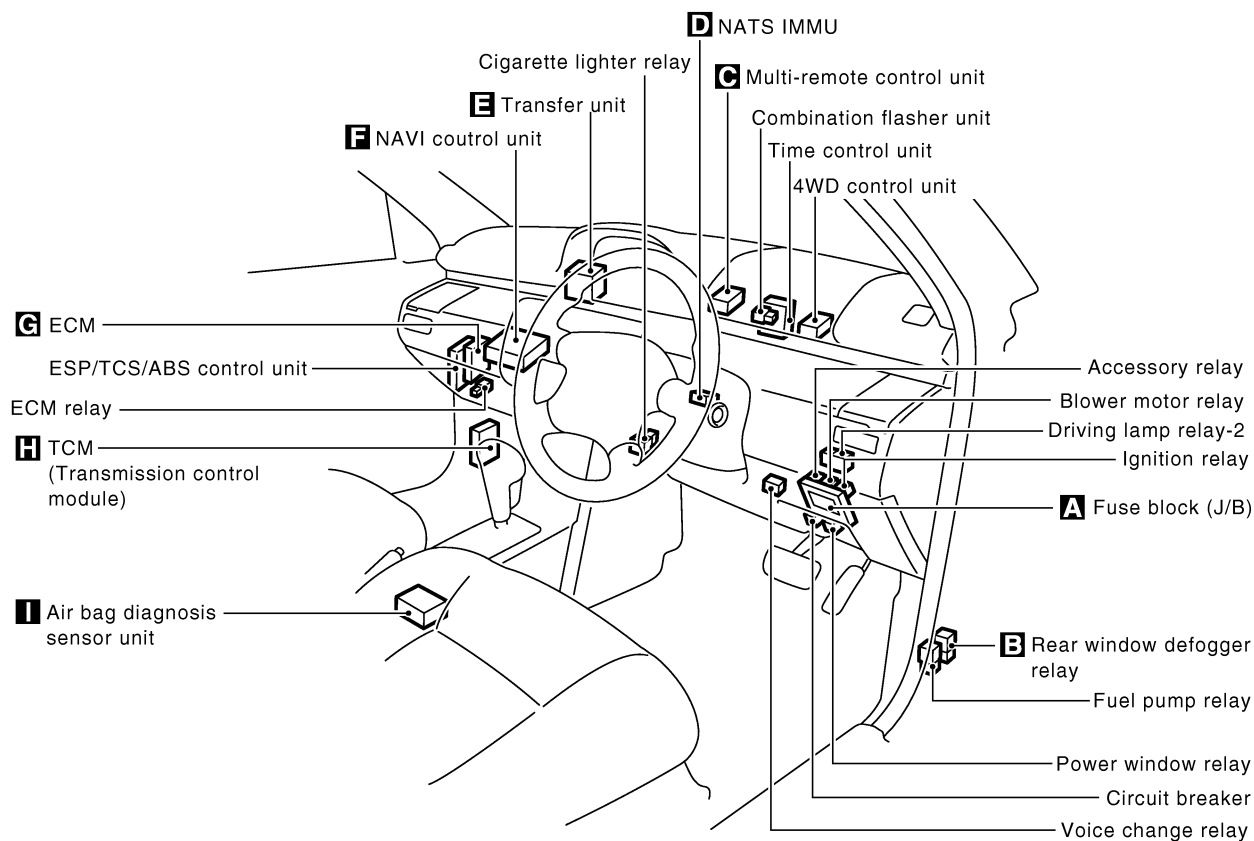


Air bag diagnosis sensor unit **M59**, **B14**, **B115**

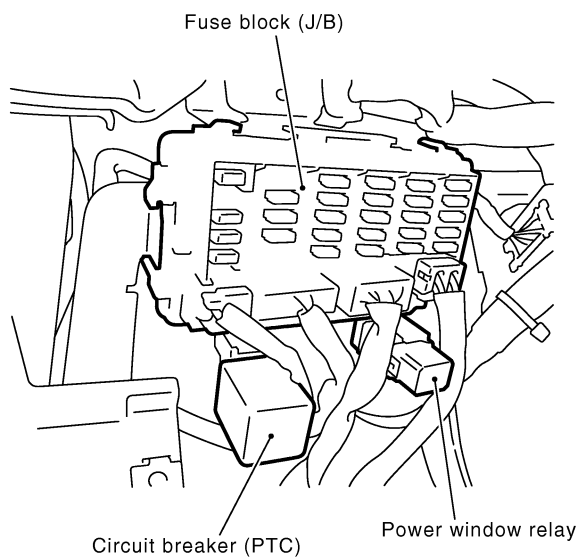
CKIB0116E

# ELECTRICAL UNITS LOCATION

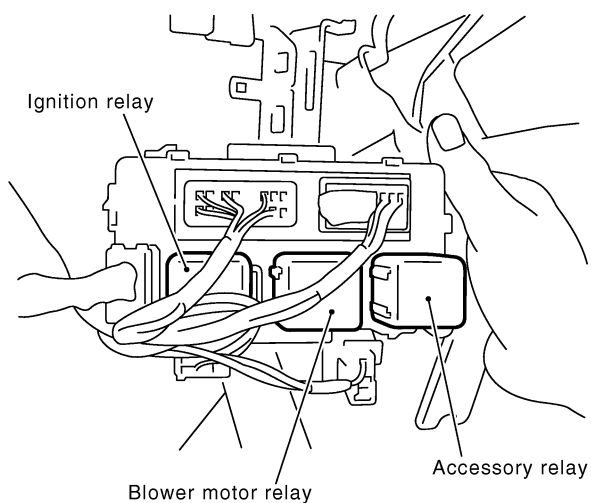
## PASSENGER COMPARTMENT/RHD MODELS



**A** Instrument panel RH



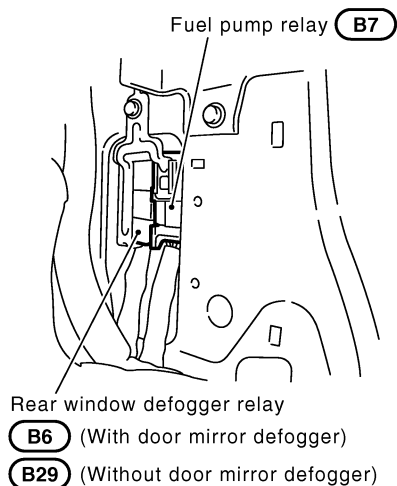
Back of the fuse block (J/B)



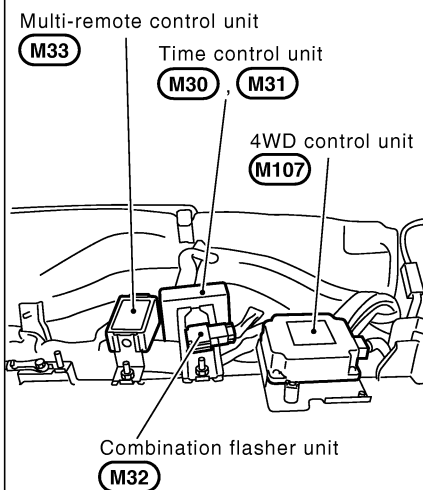


# ELECTRICAL UNITS LOCATION

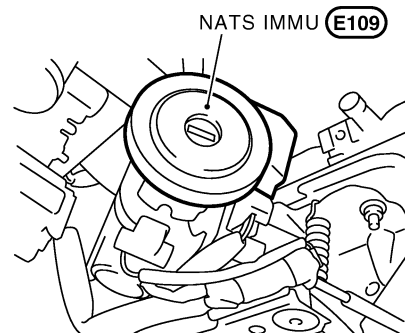
**B** Driver side view with dash side lower finisher removed



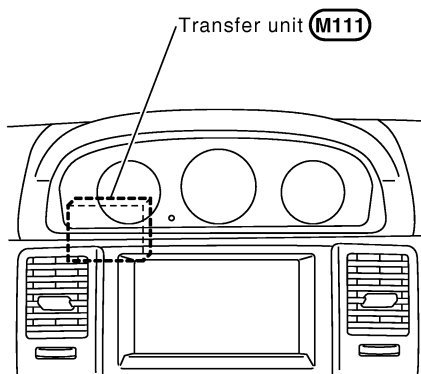
**C** Driver side view with upper instrument panel removed



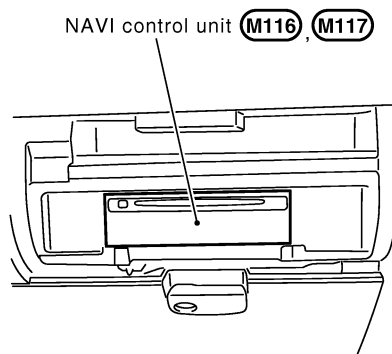
**D**



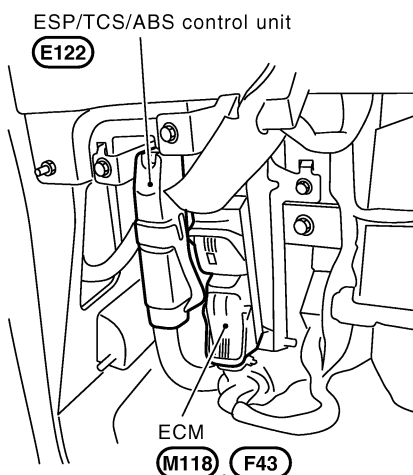
**E** View with instrument panel center



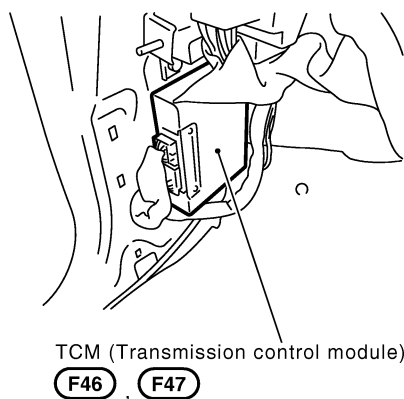
**F** Upper glove box



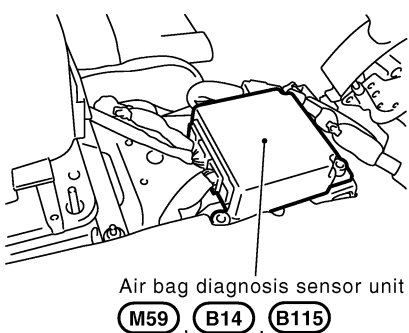
**G** Behind lower instrument panel on passenger side



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



**I** Behind the console box assembly



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

## HARNESS CONNECTOR

PFP:00011

### Description

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

EKS0032B

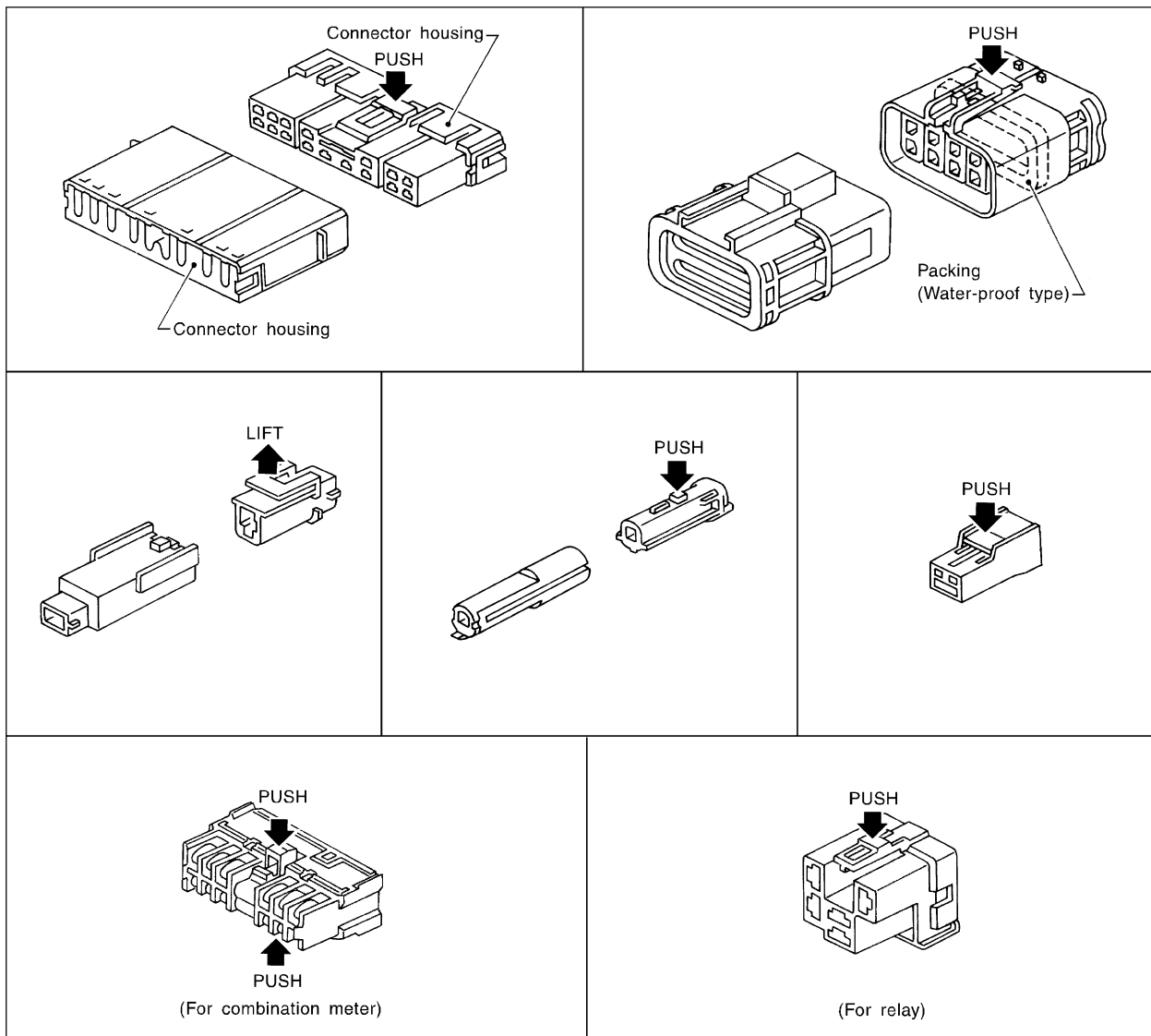
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

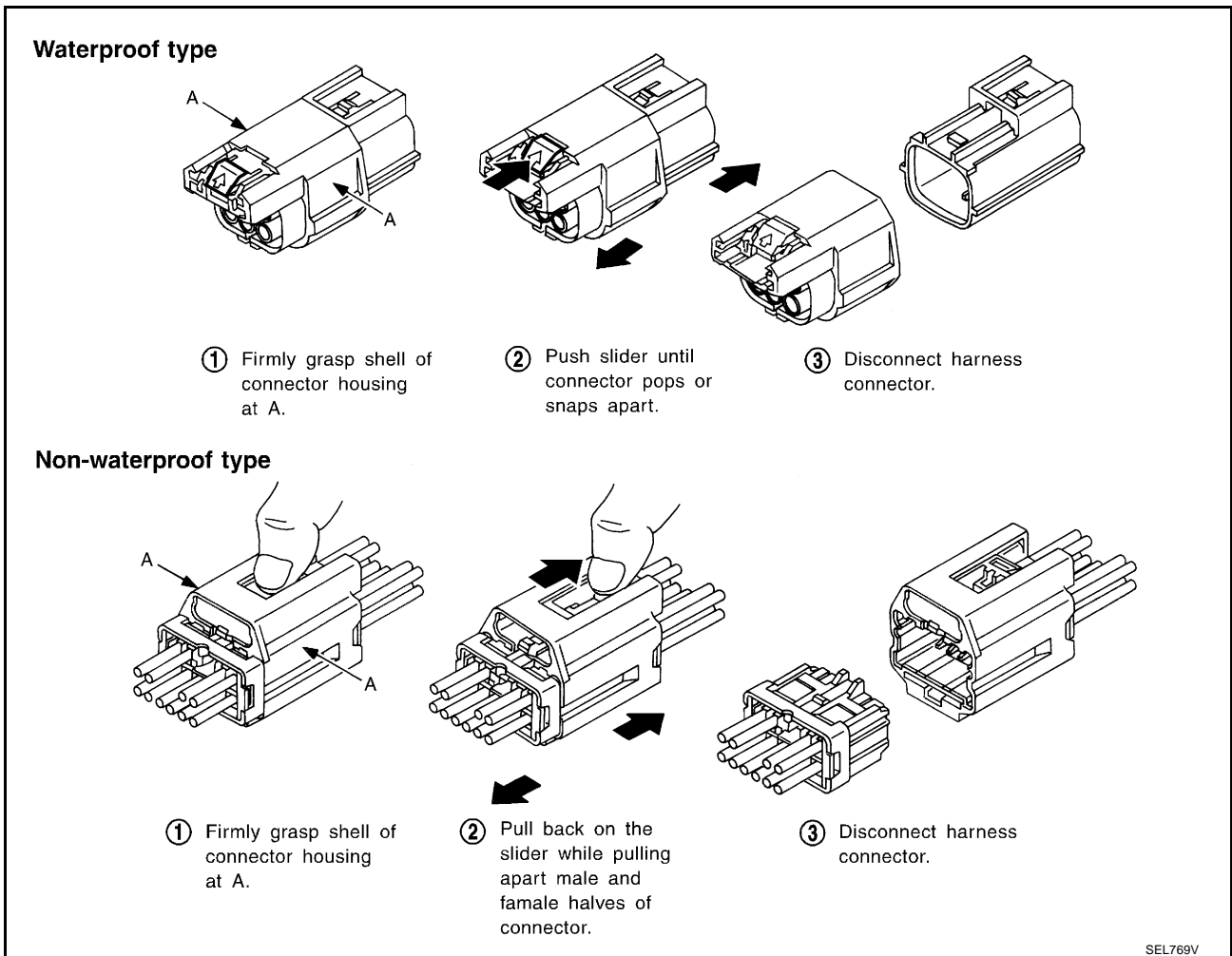
## HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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 figure below.

### CAUTION:

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

[Example]



# ELECTRICAL UNITS

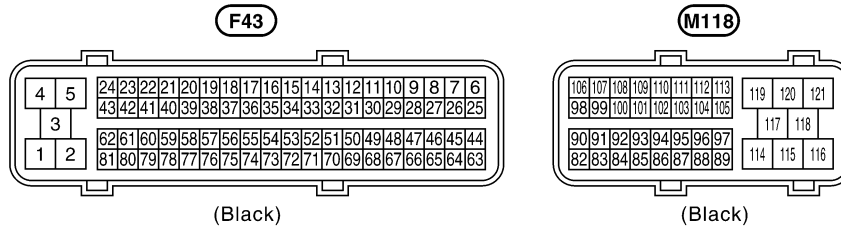
## ELECTRICAL UNITS

### Terminal Arrangement

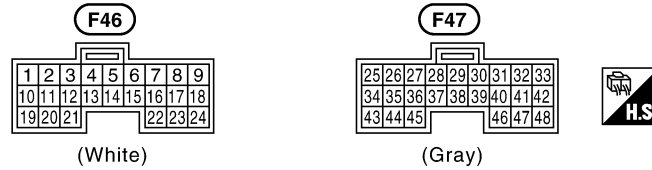
PFP:00011

EKS0032D

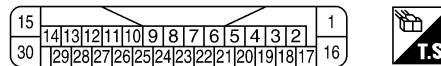
#### ECM



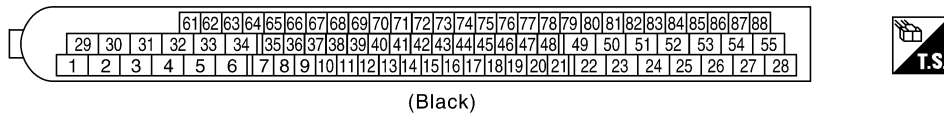
#### TCM (TRANSMISSION CONTROL MODULE)



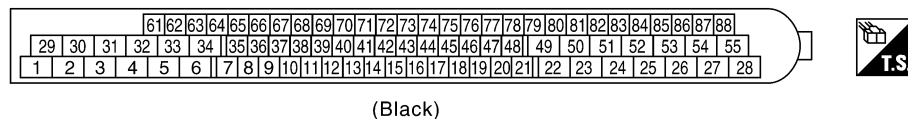
#### ABS ACTUATOR AND ELECTRIC UNIT **E69**



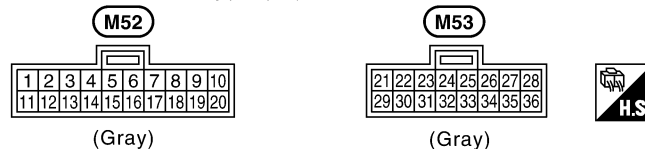
#### ESP/TCS/ABS CONTROL UNIT **E122** (LHD models)



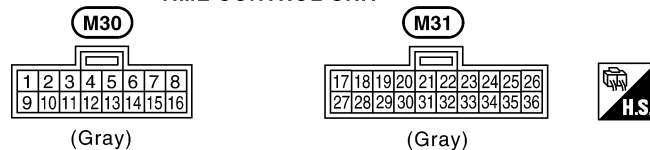
#### ESP/TCS/ABS CONTROL UNIT **E122** (RHD models)



#### A/C AUTO AMP.



#### TIME CONTROL UNIT



CKIA0382E

STANDARDIZED RELAY

STANDARDIZED RELAY

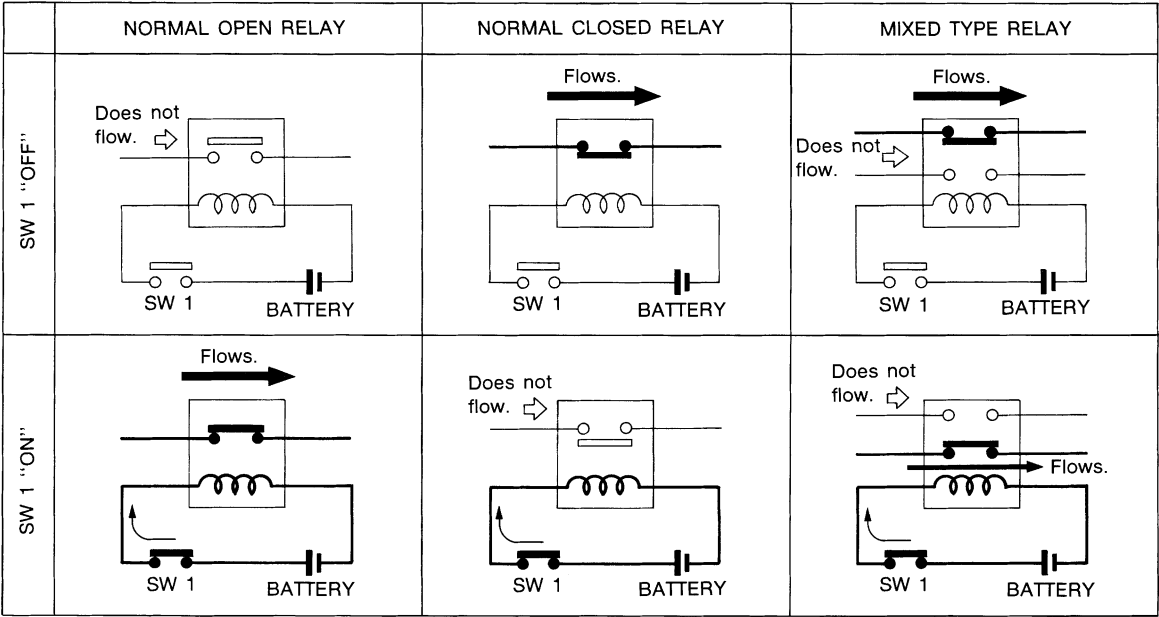
PFP:00011

Description

EKS0032E

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

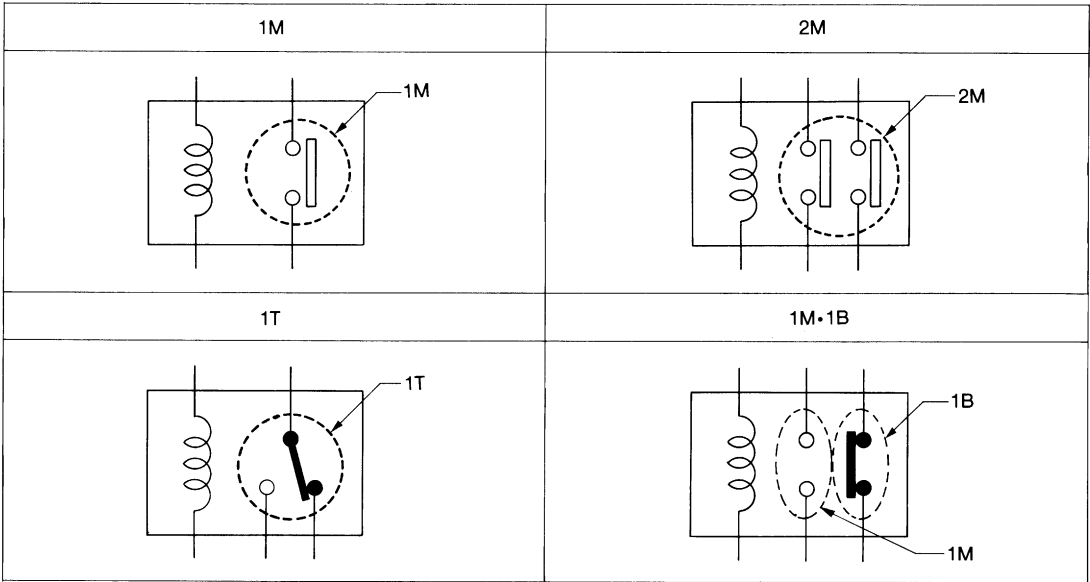
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

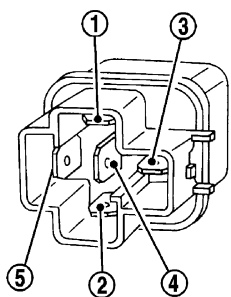
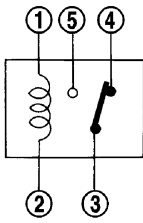
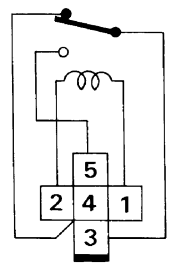
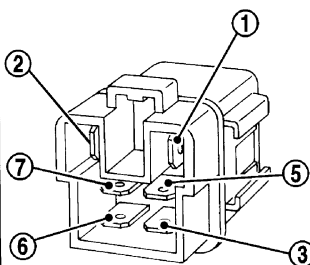
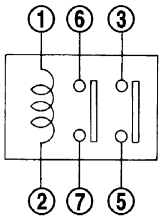
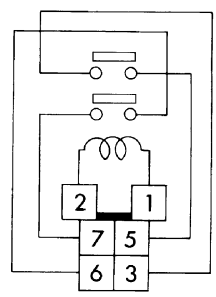
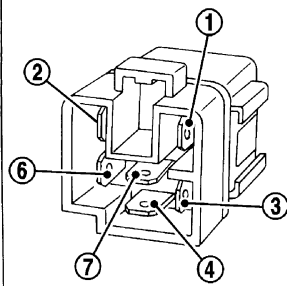
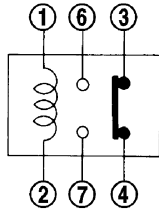
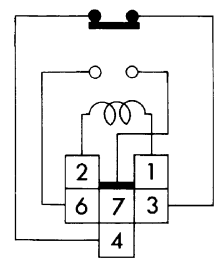
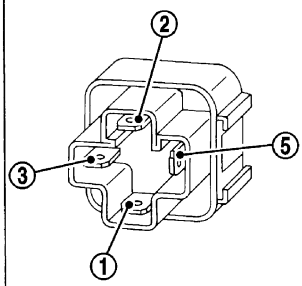
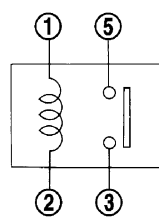
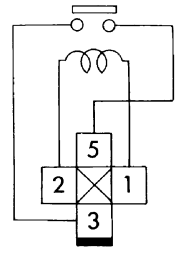
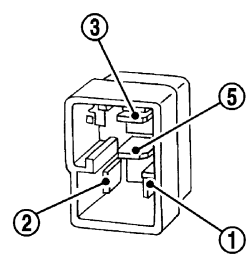
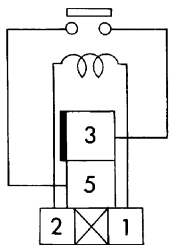
TYPE OF STANDARDIZED RELAYS

- 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

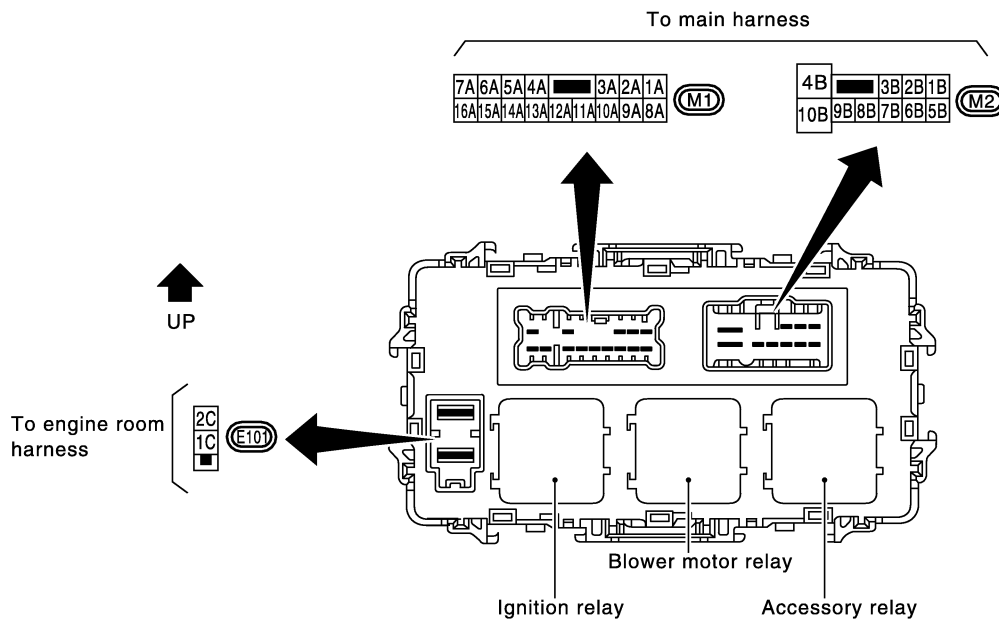
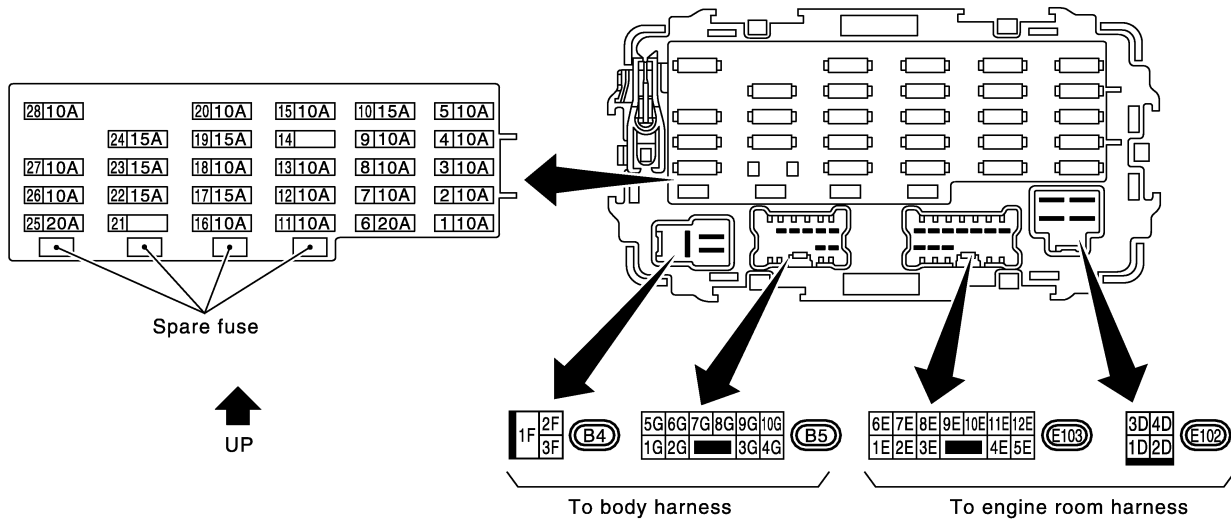
# FUSE BLOCK - JUNCTION BOX (J/B)

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

PFP:24350

### Terminal Arrangement

EKS0032F



CKIA0383E

FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX  
Terminal Arrangement

PFP:24381

EKS0032G

