

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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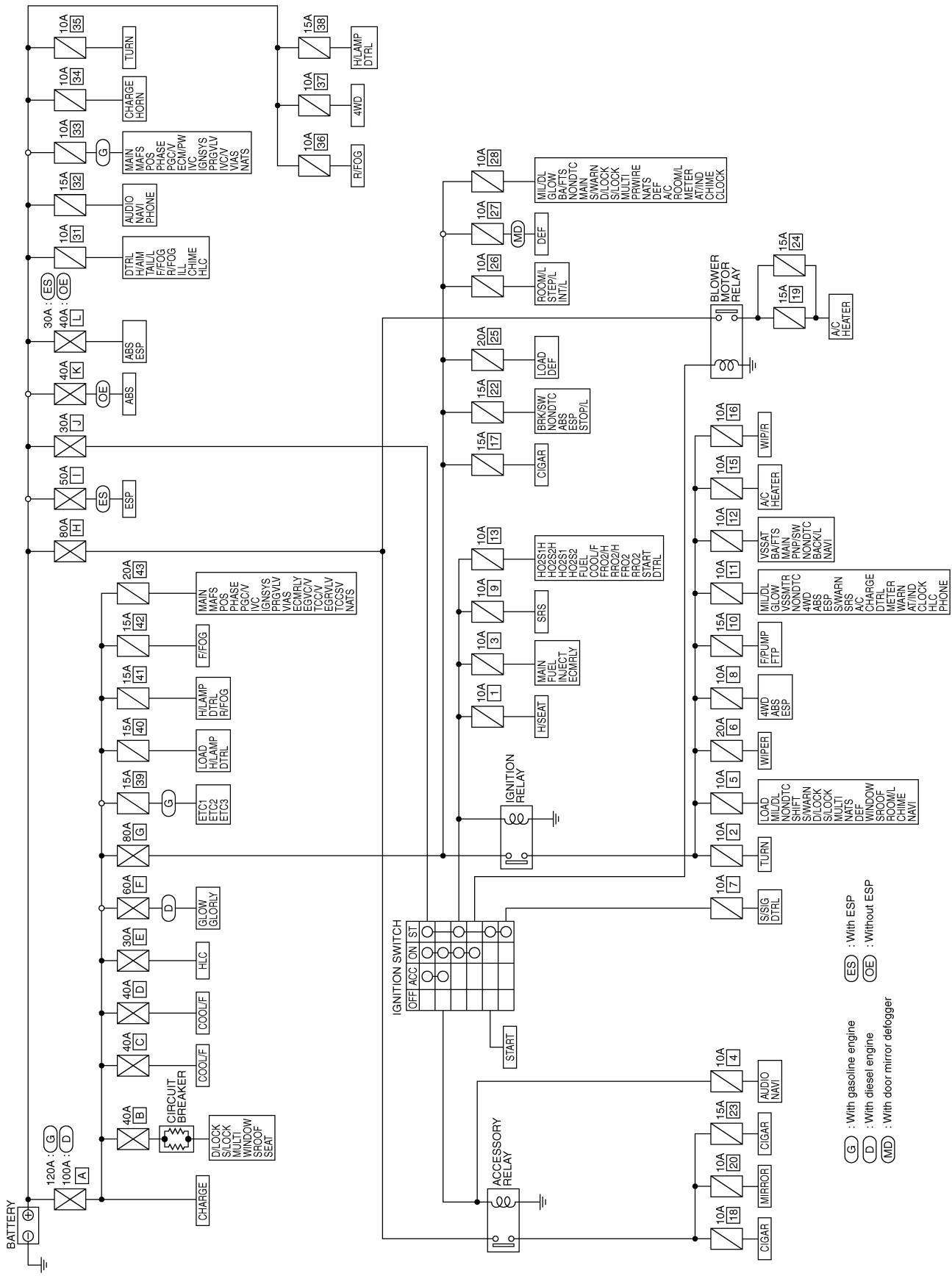
POWER SUPPLY ROUTING

POWER SUPPLY ROUTING

Schematic

PFP:00011

EKS00322



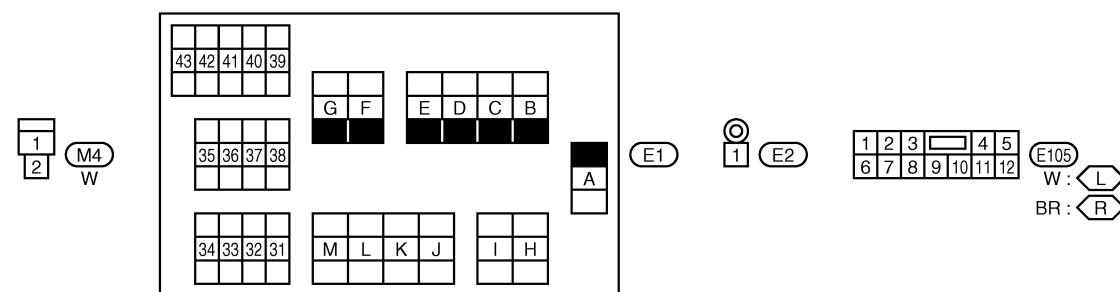
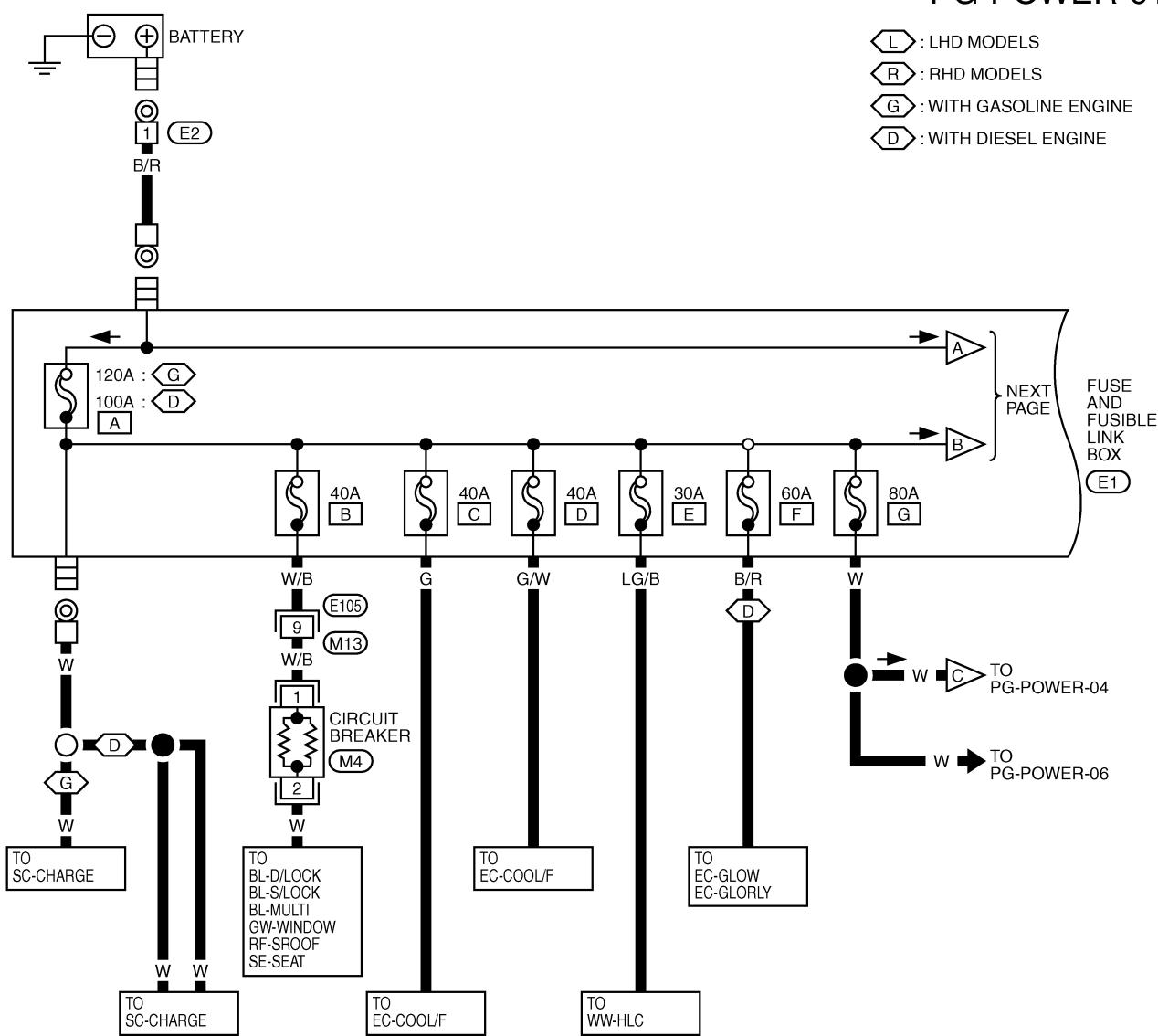
TKWA1633E

POWER SUPPLY ROUTING

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

EKS00323

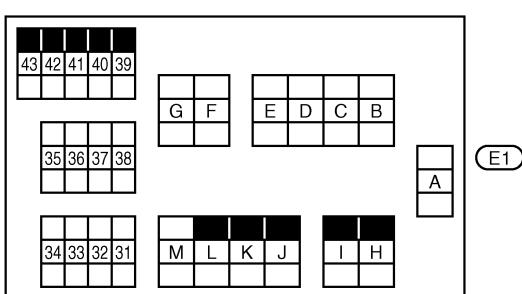
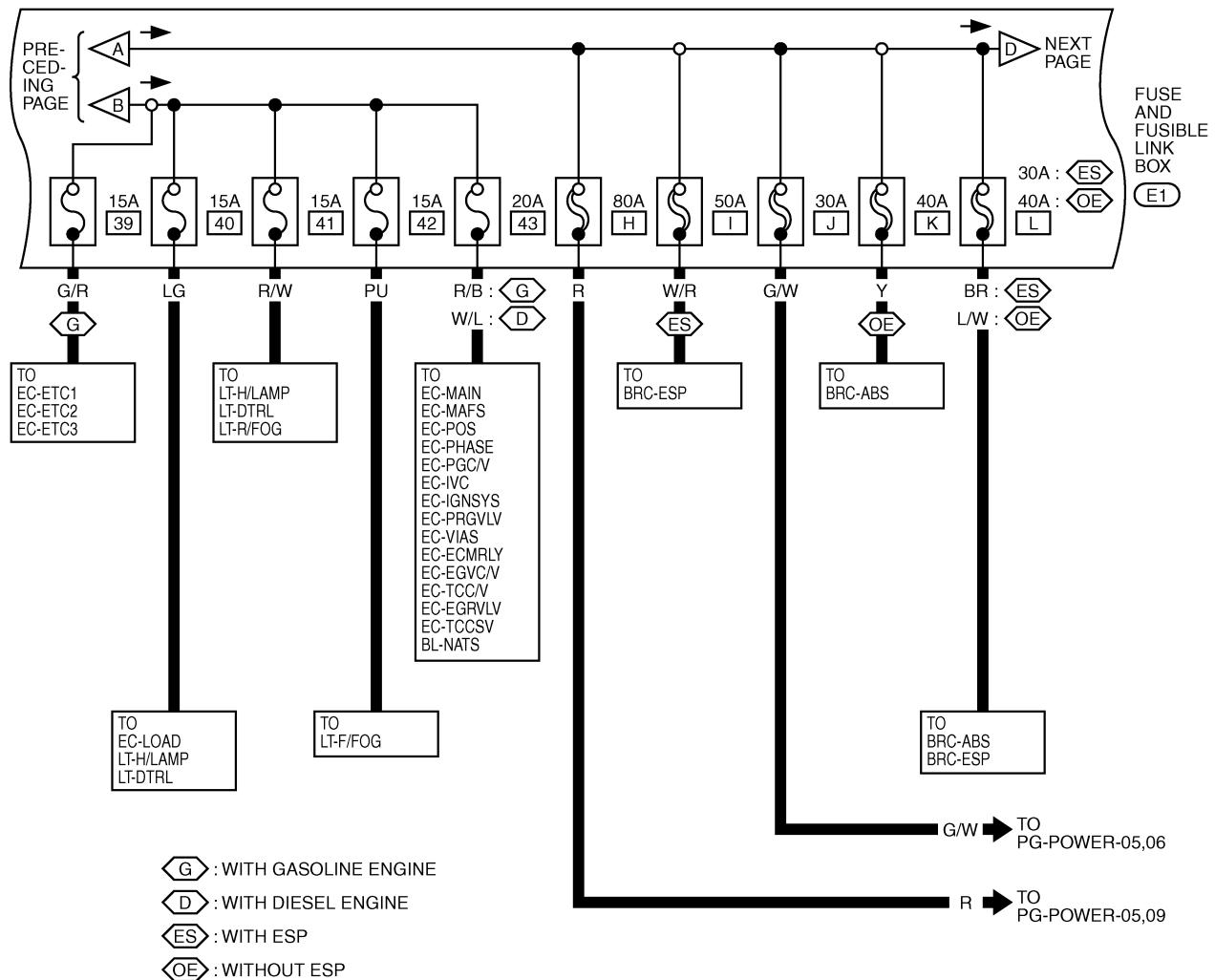
PG-POWER-01



TKWA1634E

POWER SUPPLY ROUTING

PG-POWER-02

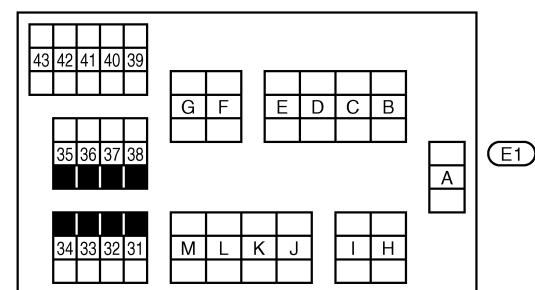
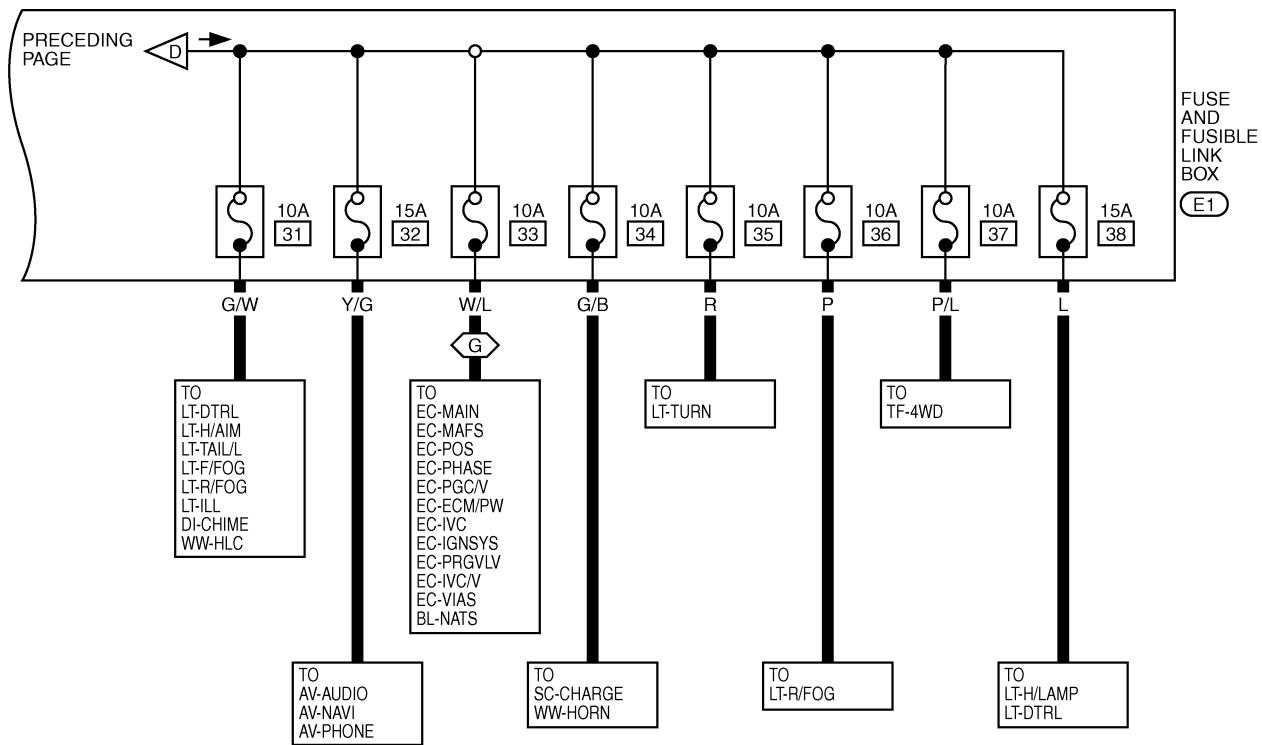


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POWER SUPPLY ROUTING

PG-POWER-03

 : WITH GASOLINE ENGINE

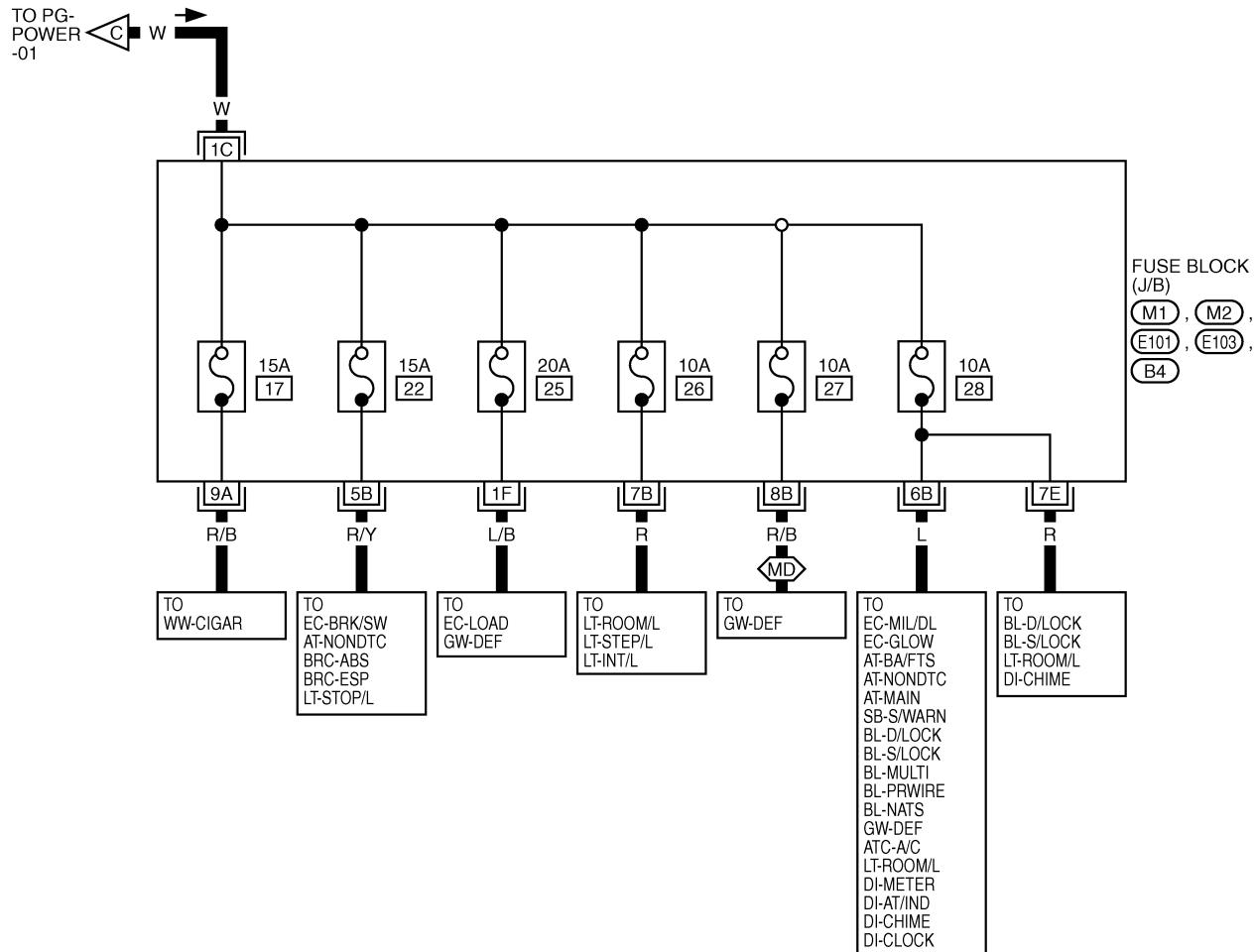


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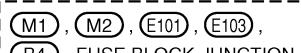
POWER SUPPLY ROUTING

PG-POWER-04

 : WITH DOOR MIRROR DEFOGGER



REFER TO THE FOLLOWING.

 -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

UP

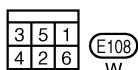
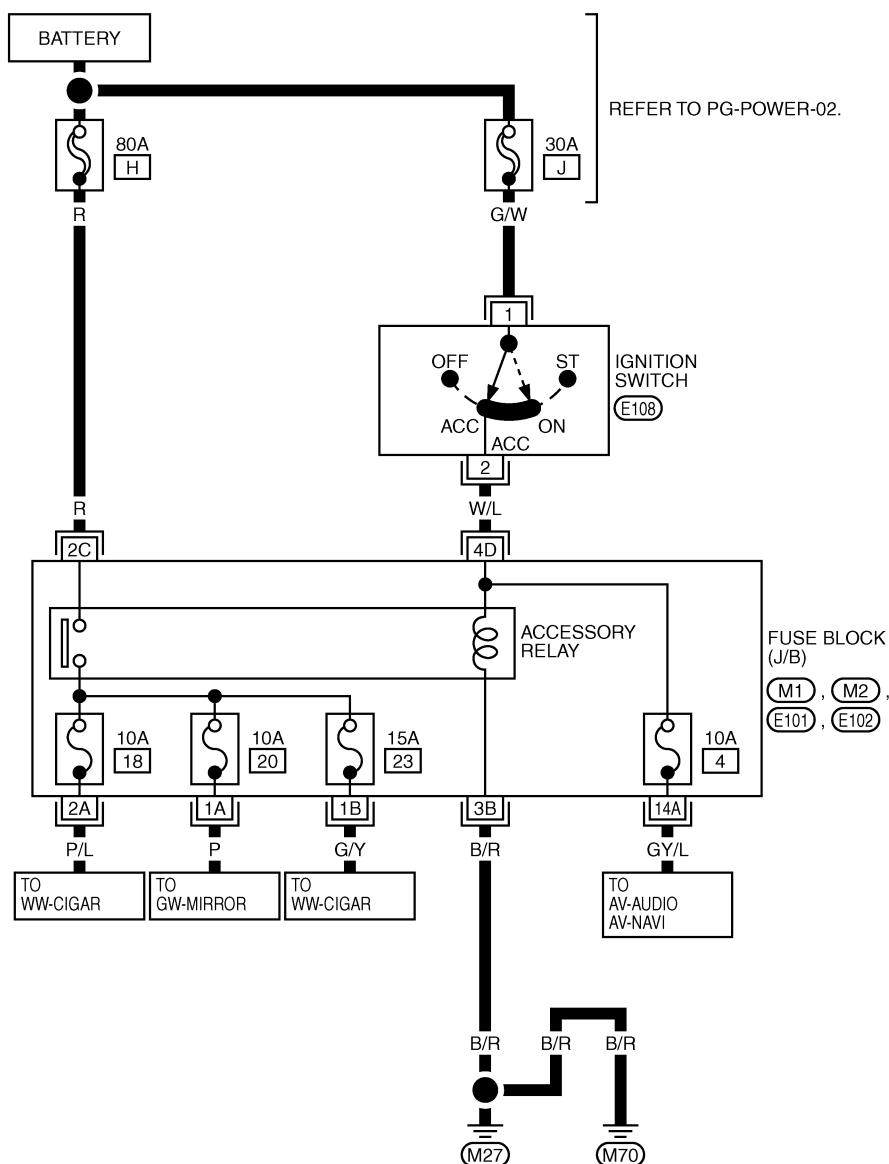


TKWB0326E

POWER SUPPLY ROUTING

ACCESSORY POWER SUPPLY - IGNITION SW. IN "ACC" OR "ON"

PG-POWER-05



REFER TO THE FOLLOWING.

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

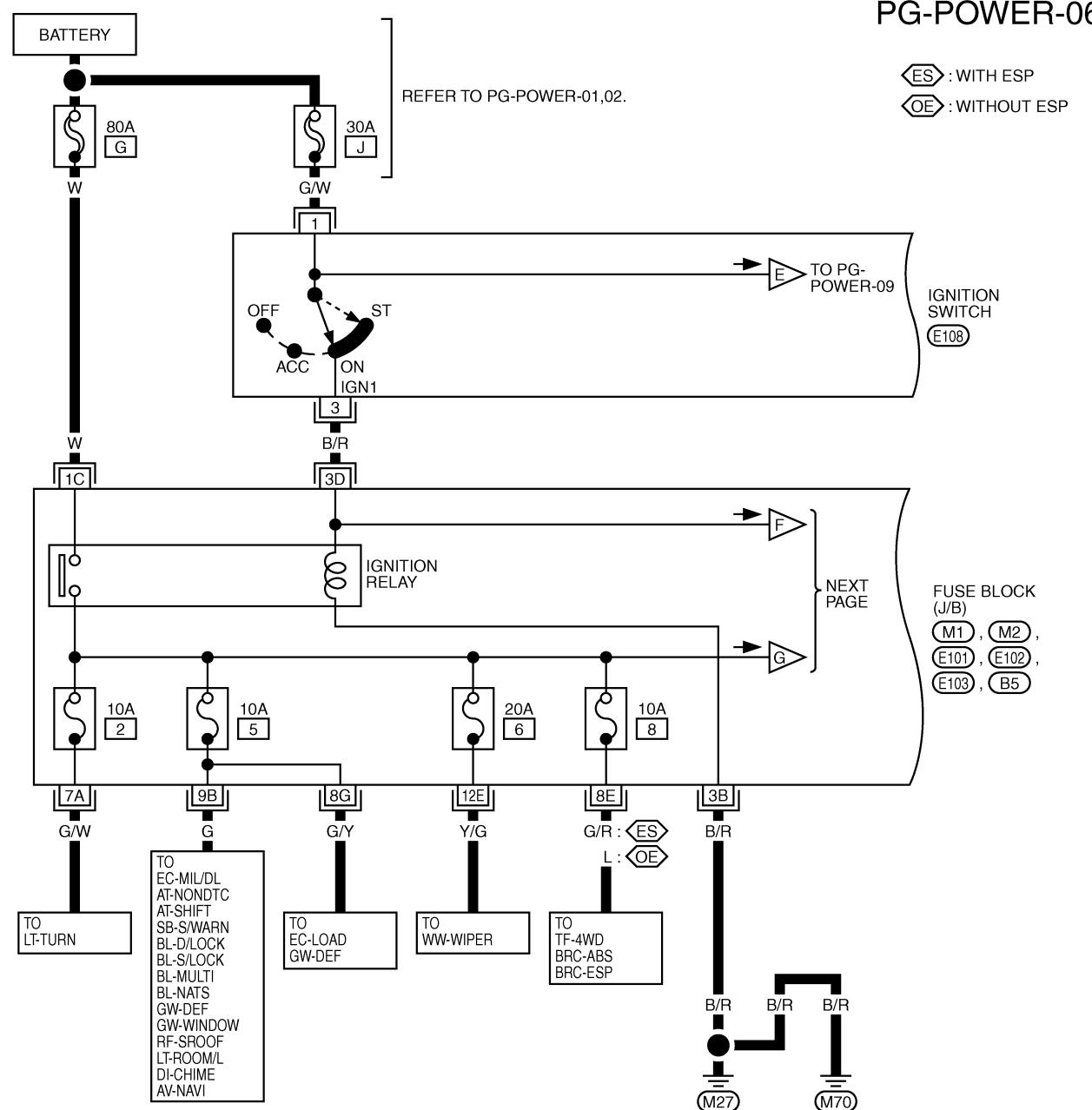
28	20	15	10	5
	24	19	14	9 4
27	23	18	13	8 3
26	22	17	12	7 2
25	21	16	11	6 1

UP
↗

TKWB0327E

POWER SUPPLY ROUTING

IGNITION POWER SUPPLY - IGNITION SW. IN "ON" AND/OR "START"



3	5	1
4	2	6

E108
W

REFER TO THE FOLLOWING.

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

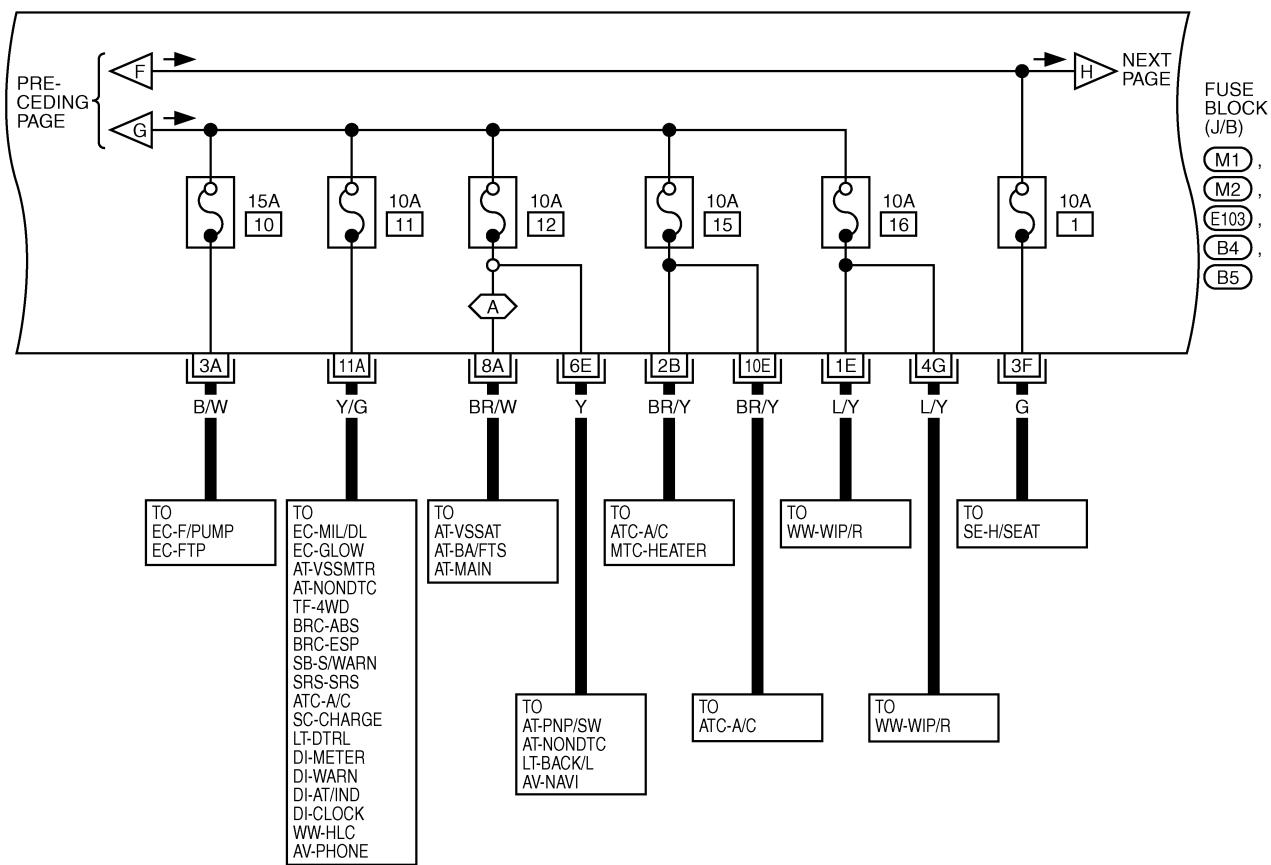
28	20	15	10	5
24	19	14	9	4
27	23	18	13	8
26	22	17	12	7
25	21	16	11	1

UP
↑

POWER SUPPLY ROUTING

PG-POWER-07

: WITH A/T



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M

REFER TO THE FOLLOWING.

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

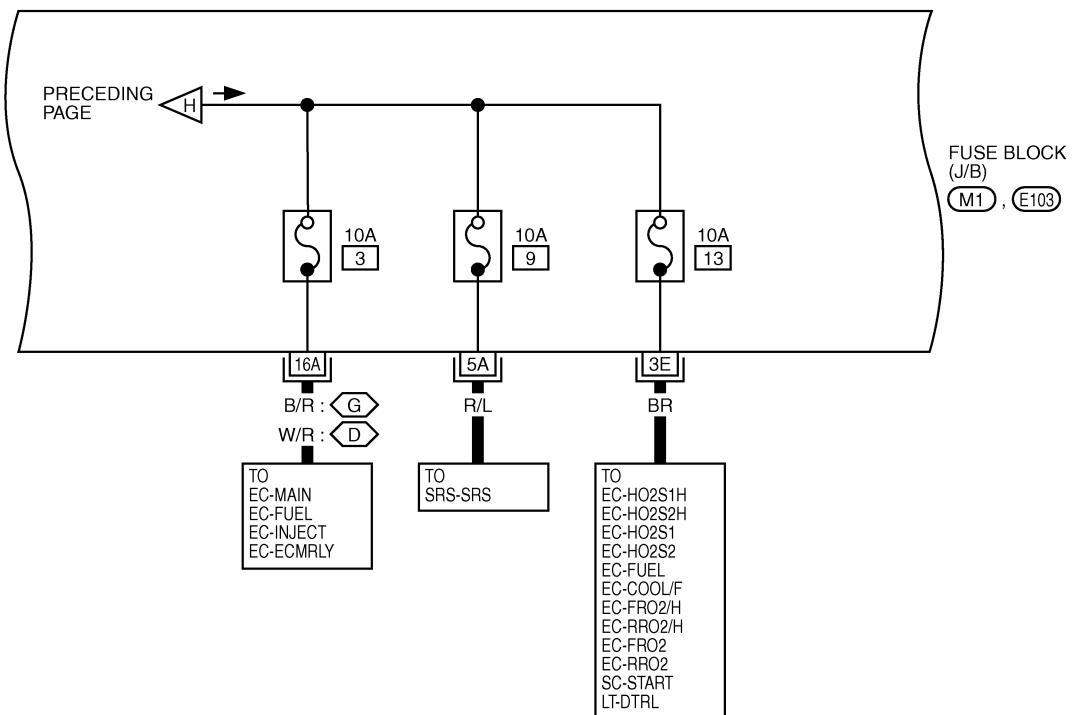
UP

TKWB0329E

POWER SUPPLY ROUTING

PG-POWER-08

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



REFER TO THE FOLLOWING.

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

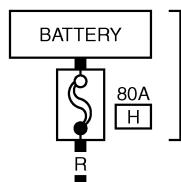
28		20	15	10	5
	24	19	14	9	4
27	23	18	13	8	3
26	22	17	12	7	2
25	21	16	11	6	1

UP
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TKWB0330E

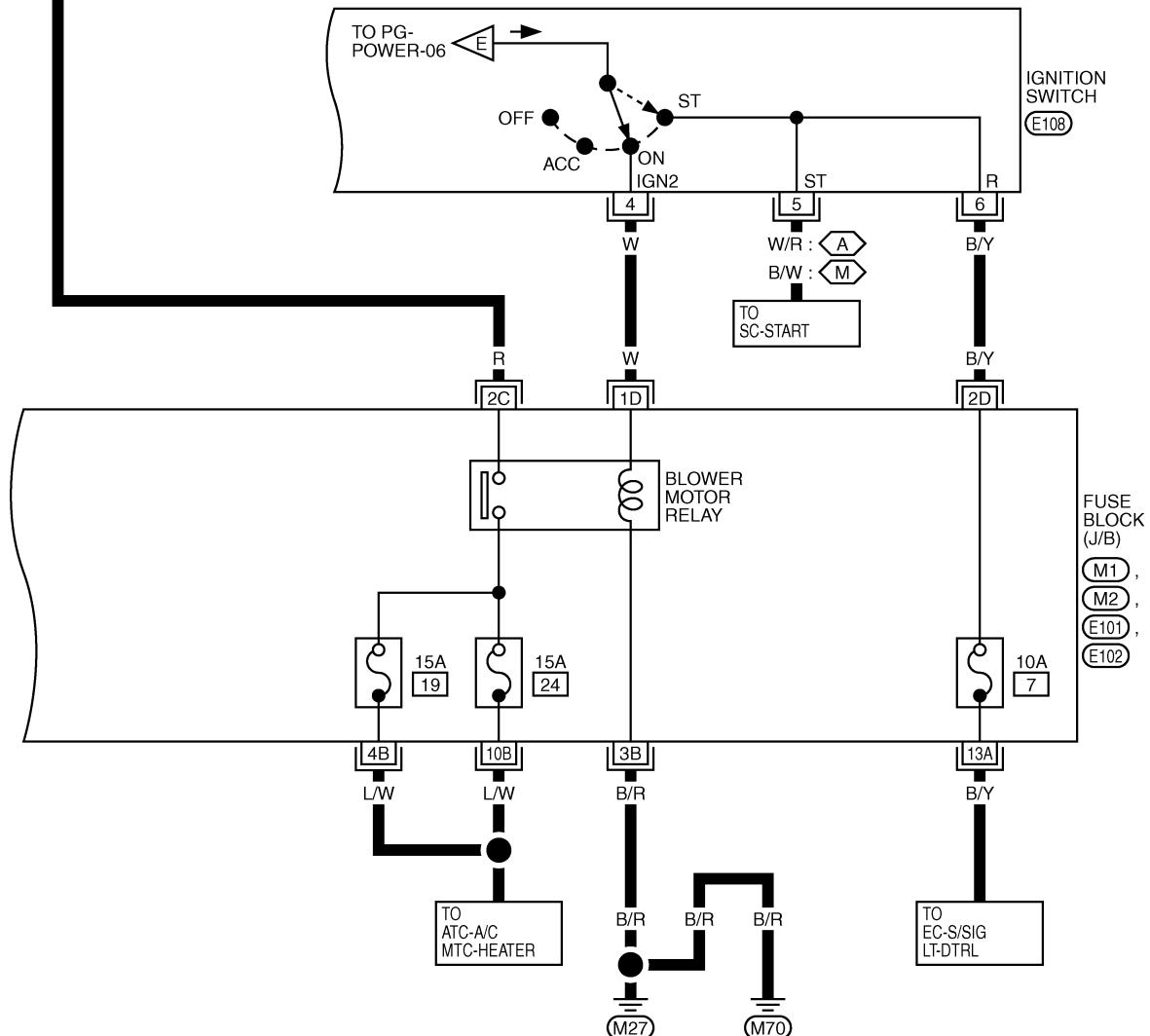
POWER SUPPLY ROUTING

PG-POWER-09



REFER TO PG-POWER-02.

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



3	5	1
4	2	6
W		

E108

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	1

UP
↑

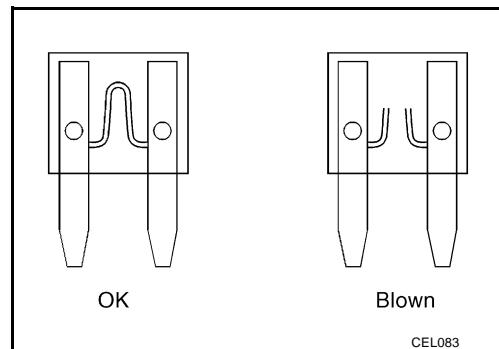
TKWB0331E

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.



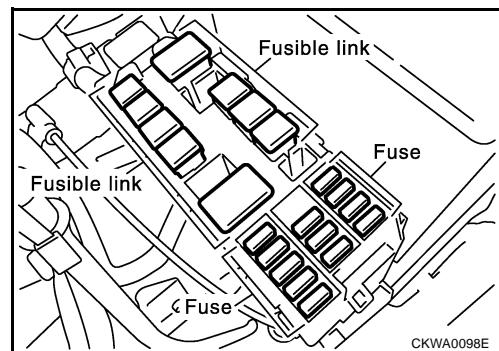
Fusible Link

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:

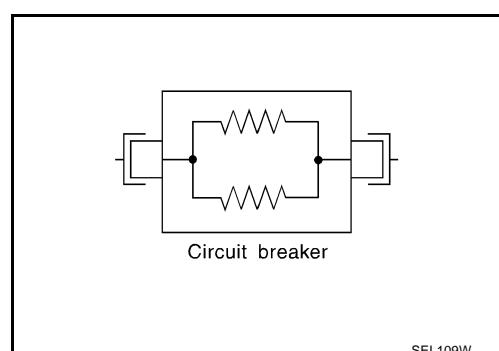
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other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



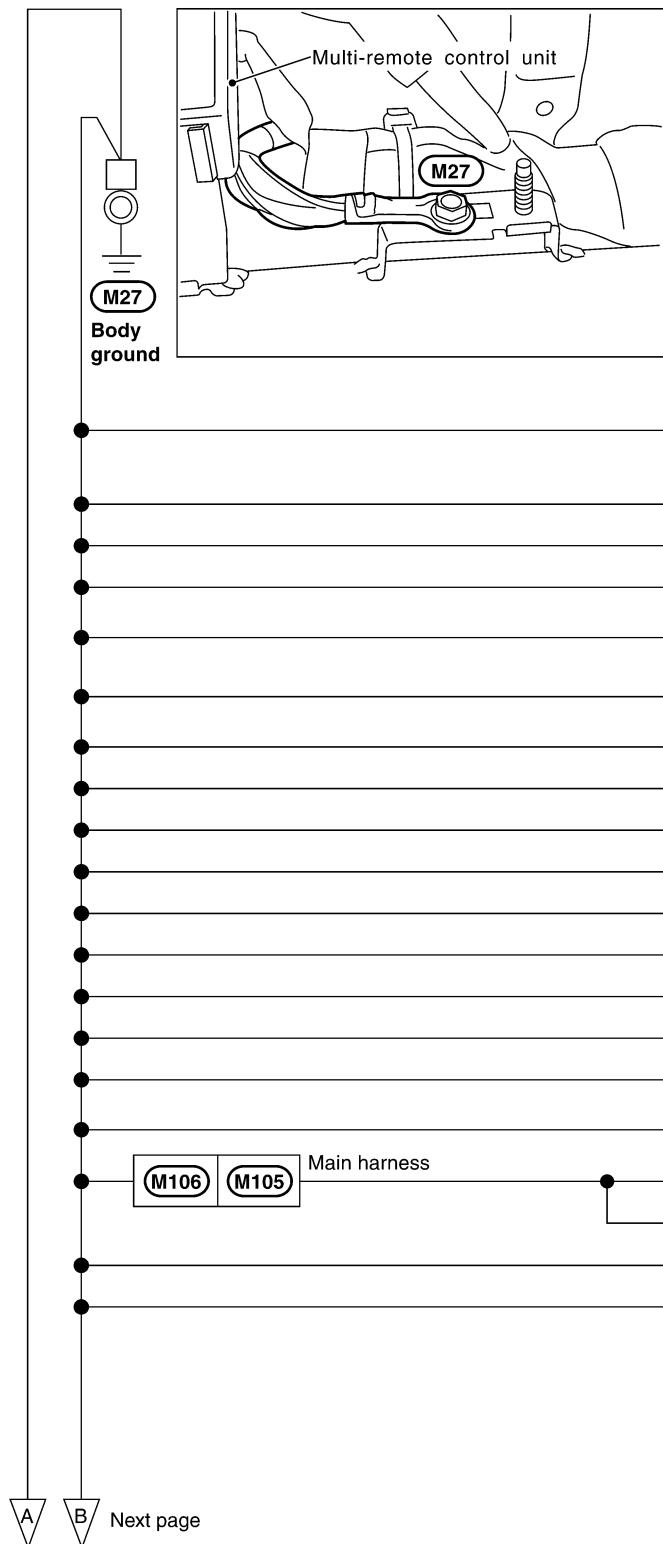
GROUND

GROUND

PFP:00011

Ground Distribution MAIN HARNESS/LHD MODELS

EKS0032H



CONNECTOR 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)
M24	Headlamp aiming switch (Terminal No.4)
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)

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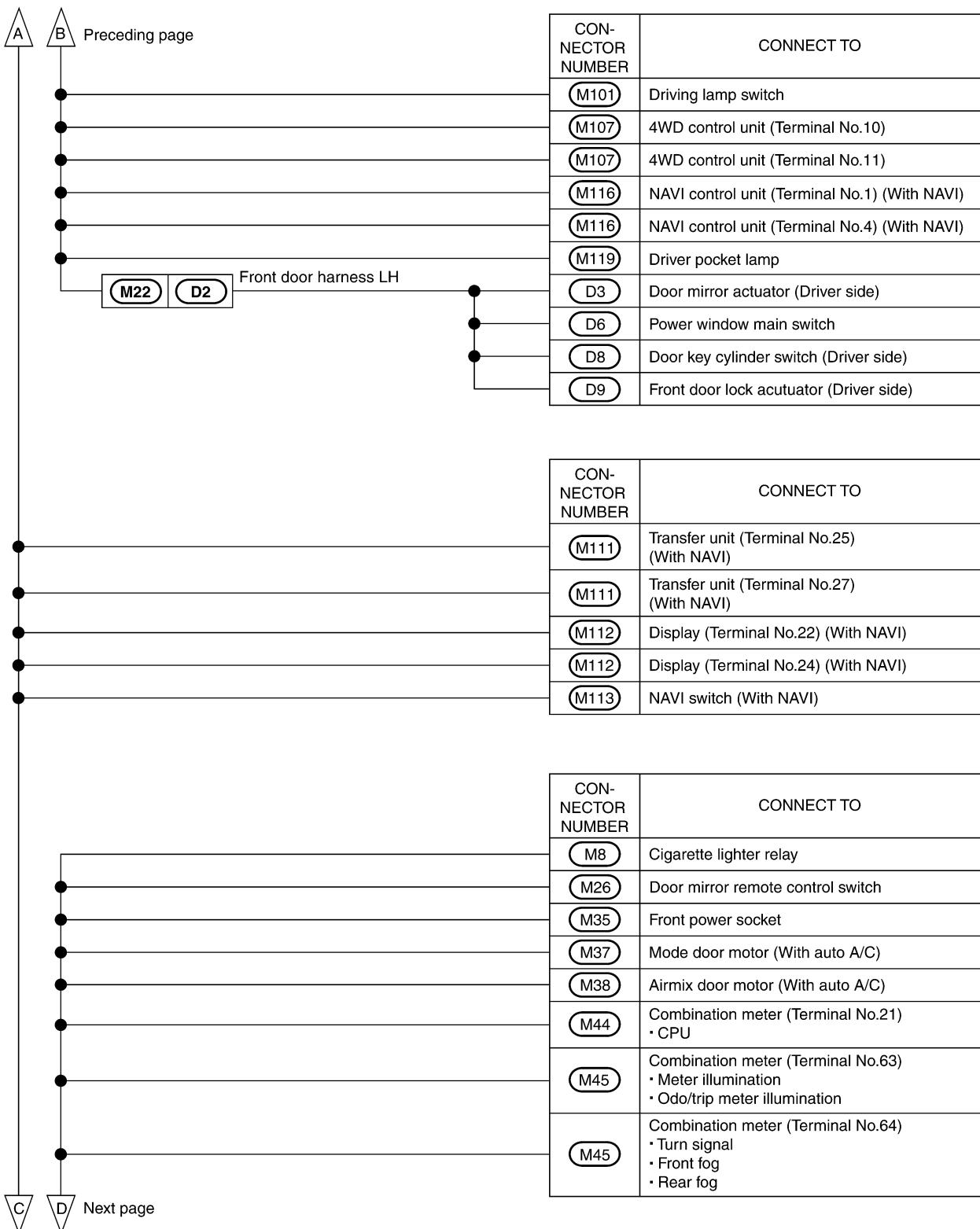
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GROUND



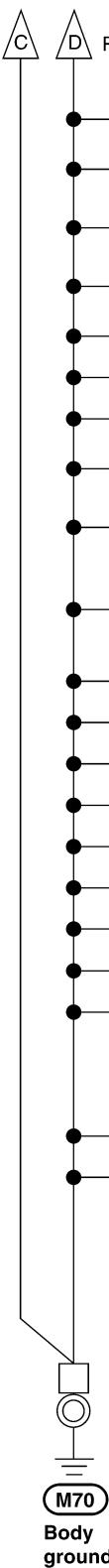
GROUND

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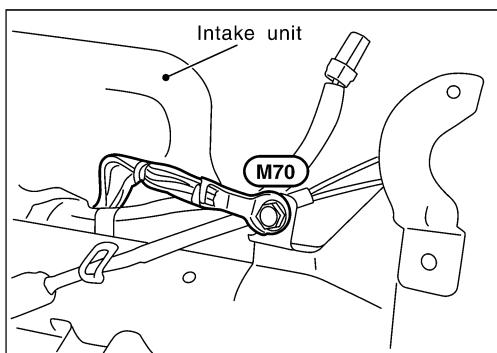
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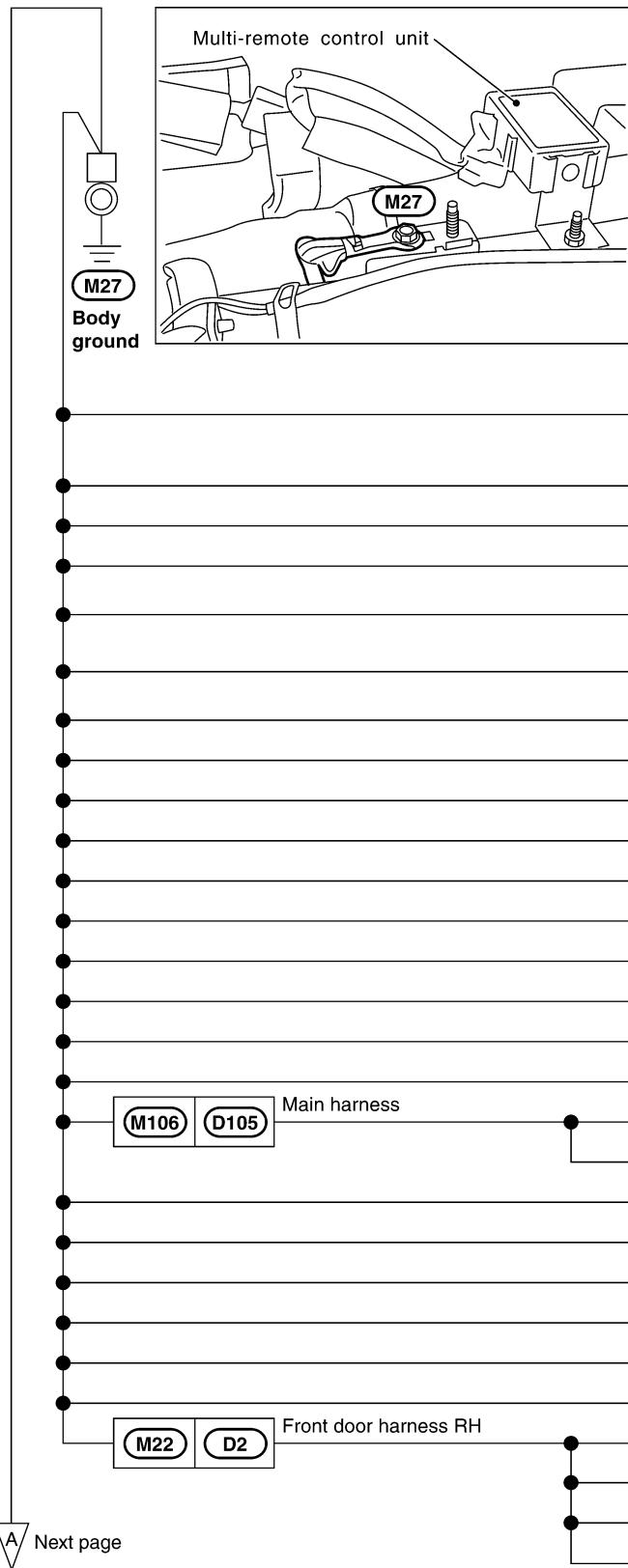


CONNECTOR NUMBER	CONNECT TO
M47	Intake door motor (With auto A/C)
M50	Rear window defogger switch (Terminal No.2) (Without auto A/C)
M50	Rear window defogger switch (Terminal No.4) (Without auto A/C)
M50	Rear window defogger switch (Terminal No.6) (Without auto A/C)
M51	Hazard switch
M52	A/C auto amp. (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 • Cigarette lighter • Illumination • Ashtray illumination
M58	A/T device (Terminal No.2)
M58	A/T device (Terminal No.4)
M58	A/T device (Terminal No.6)
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
E109	NATS IMMU
R2	Map lamp (Without sunroof)
R3	Sunroof switch
R11	Map lamp (With sunroof)
D14	Door mirror actuator (Passenger side)
D17	Front door lock actuator (Passenger side)



GROUND

MAIN HARNESS/RHD MODELS



CONNECTOR NUMBER	CONNECT TO
M2	Fuse block (J/B) (Terminal No.3B) • Accessory relay • Ignition relay • Blower motor 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)
M24	Headlamp aiming switch (Terminal No.4)
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
M35	Front power socket
M39	4WD mode switch (Terminal No.4)
M39	4WD mode switch (Terminal No.6)
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)
M119	Driver pocket lamp
D3	Door mirror actuator (Driver side)
D6	Power window main switch
D8	Door key cylinder switch (Driver side)
D9	Front door lock actuator (Driver side)

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CONNECTOR 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)



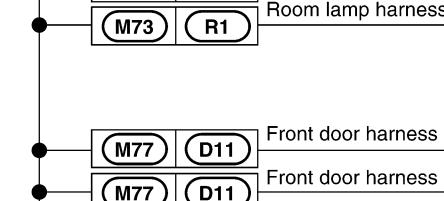
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CONNECTOR NUMBER	CONNECT TO
(M8)	Cigarette lighter relay
(M26)	Door mirror remote control switch
(M37)	Mode door motor (With auto A/C)
(M38)	Air mix door motor (With auto A/C)
(M44)	Combination meter (Terminal No.19) • High beam indicator
(M44)	Combination meter (Terminal No.21) • CPU
(M45)	Combination meter (Terminal No.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)

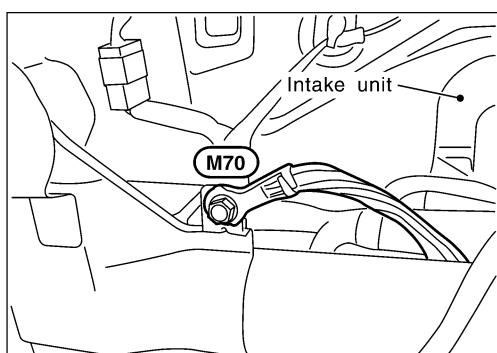
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CONNECTOR NUMBER	CONNECT TO
(M51)	Hazard switch
(M52)	A/C auto amp. (Terminal No.3) (With auto A/C)
(M52)	A/C auto amp. (Terminal No.11) (With auto A/C)
(M55)	Heater control panel (Terminal No.5) (Without auto A/C)
(M55)	Heater control panel (Terminal No.6) (Without auto A/C)
(M56)	Cigarette lighter socket and ashtray illumination • Cigarette lighter • Illumination • Ashtray illumination
(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
(E109)	NATS IMMU
(R2)	Map lamp (Without sunroof)
(R3)	Sunroof switch
(R11)	Map lamp (With sunroof)
(D17)	Front door lock actuator (Passenger side)
(D14)	Door mirror actuator (Passenger side)



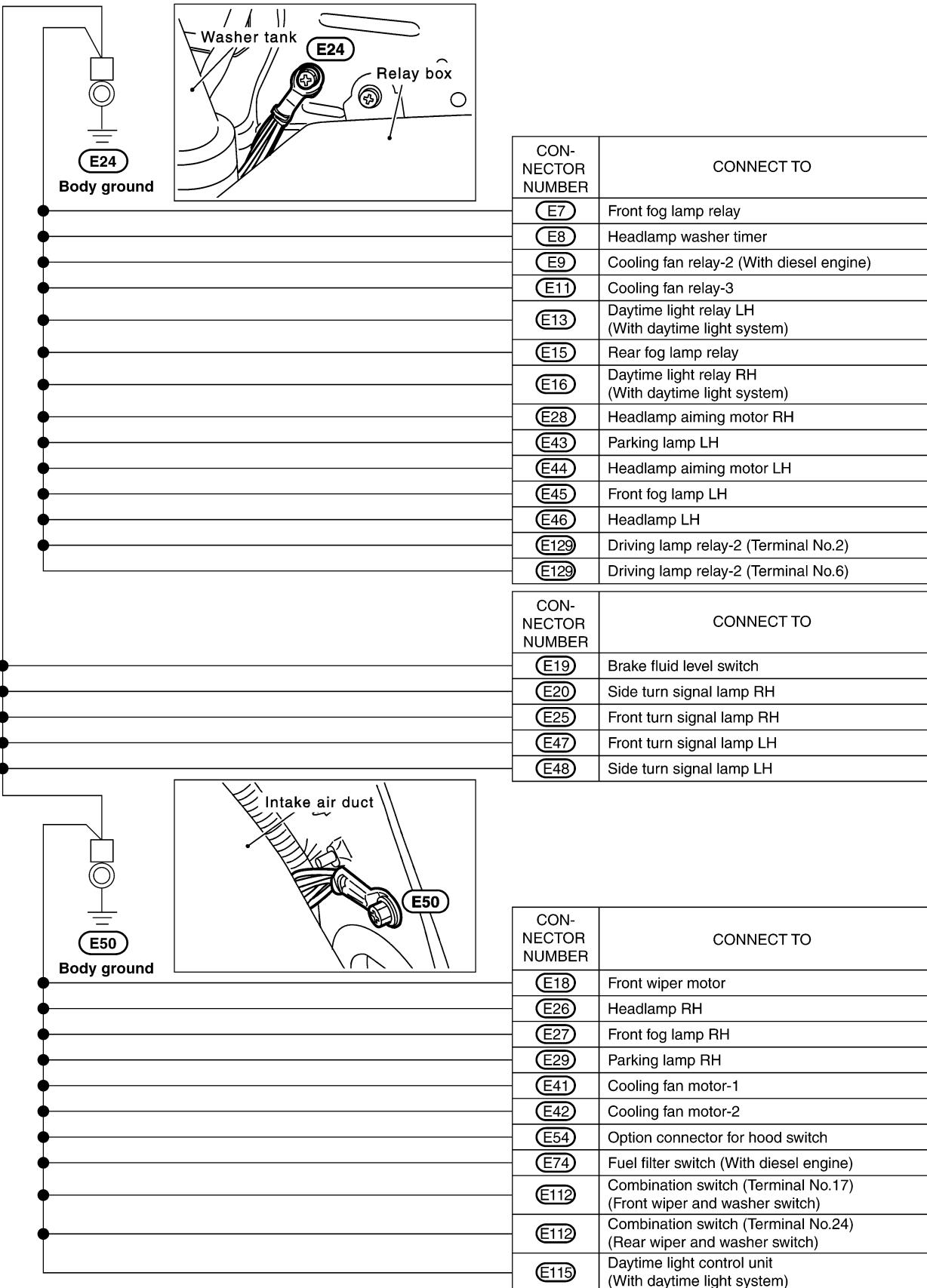
M70
Body ground



GROUND

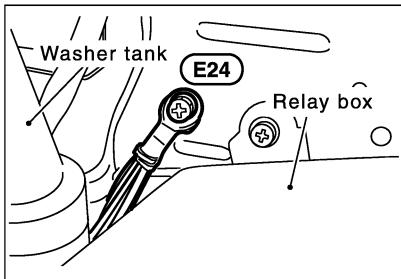
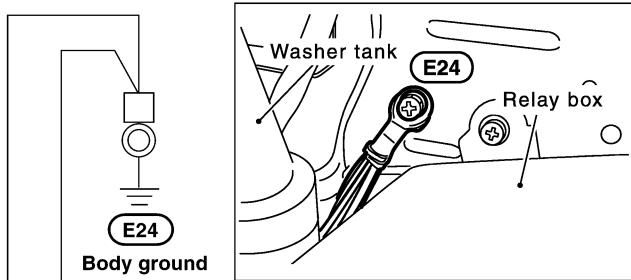
ENGINE ROOM HARNESS/LHD MODELS

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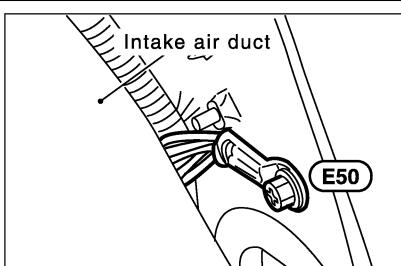
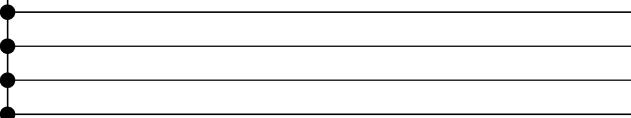


GROUND

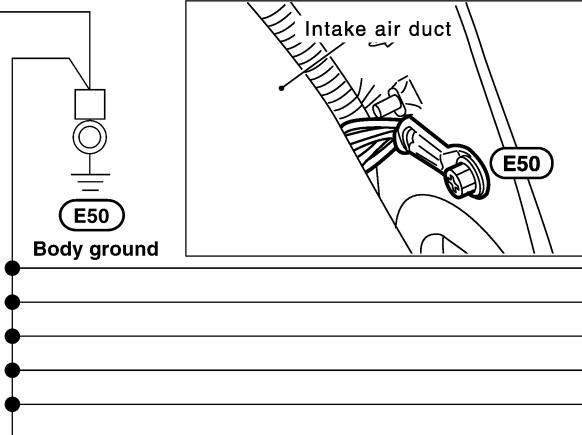
ENGINE ROOM HARNESS/RHD MODELS



CONNECTOR 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
(E15)	Rear fog lamp relay
(E18)	Front wiper motor
(E28)	Headlamp aiming motor RH
(E43)	Parking lamp LH
(E44)	Headlamp aiming motor 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)
(E129)	Driving lamp relay-2 (Terminal No.2)
(E129)	Driving lamp relay-2 (Terminal No.6)



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

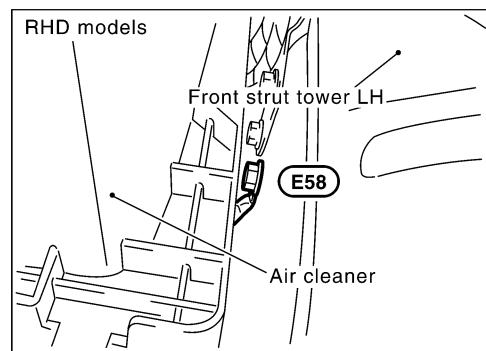
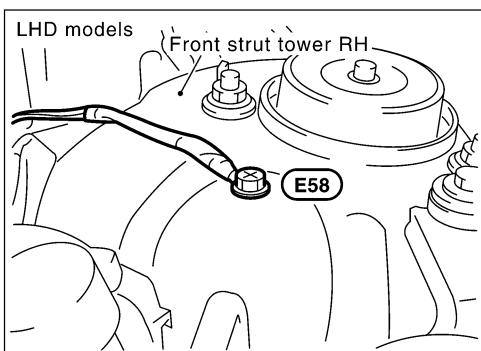
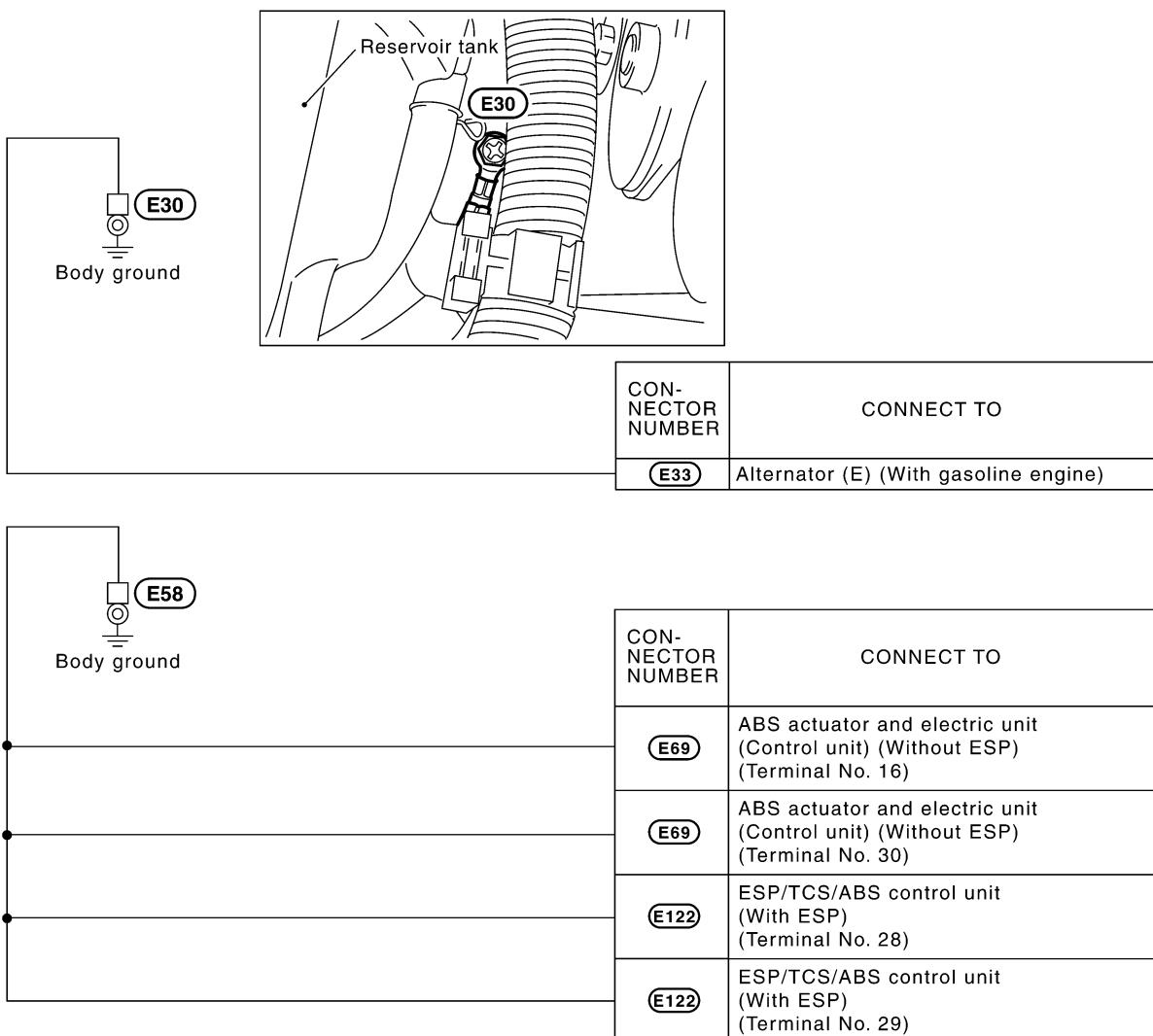


CONNECTOR NUMBER	CONNECT TO
(E26)	Headlamp RH
(E27)	Front fog lamp RH
(E29)	Parking lamp RH
(E41)	Cooling fan motor-1
(E42)	Cooling fan motor-2
(E54)	Option connector for hood switch

GROUND

ENGINE ROOM HARNESS

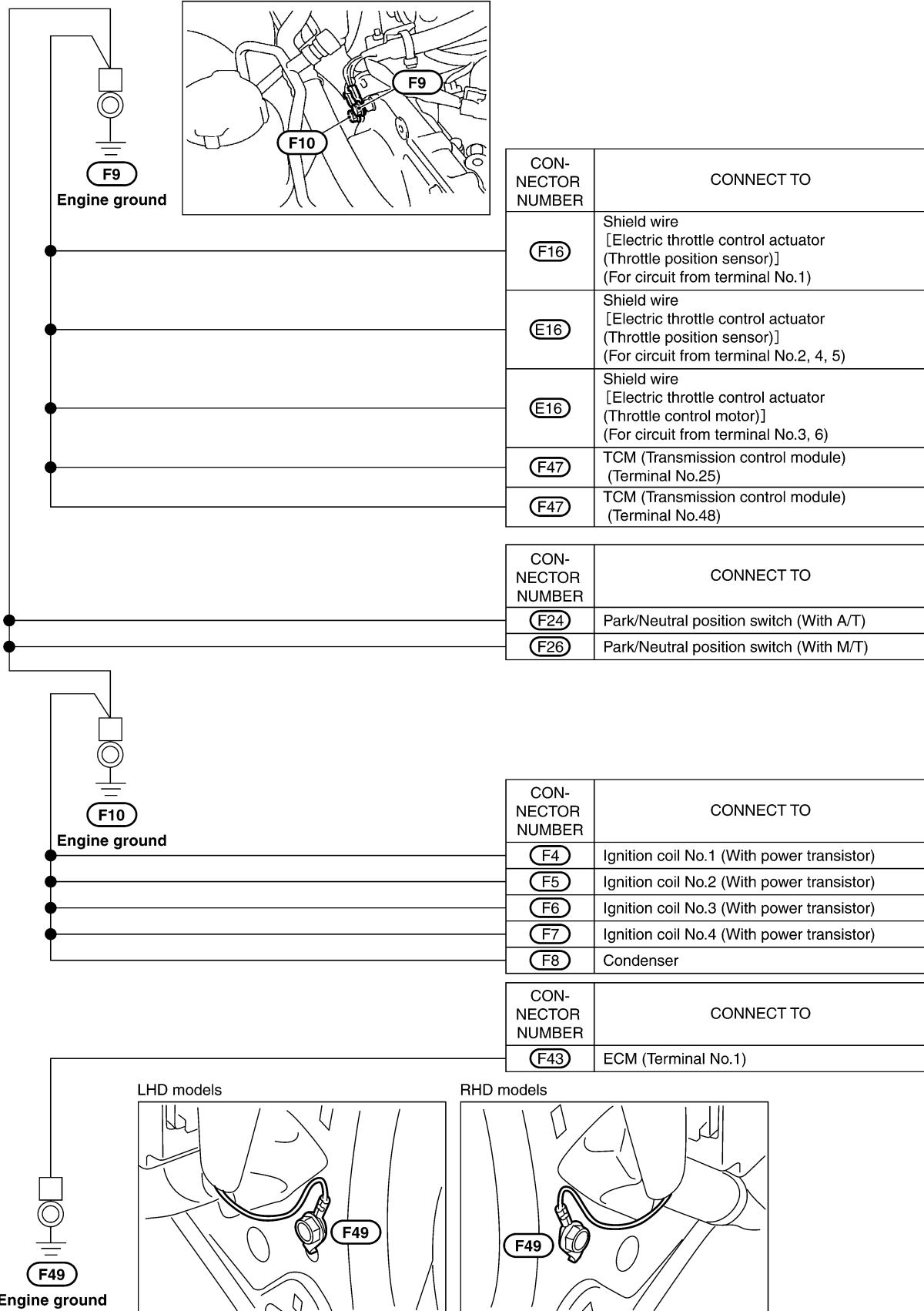
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GROUND

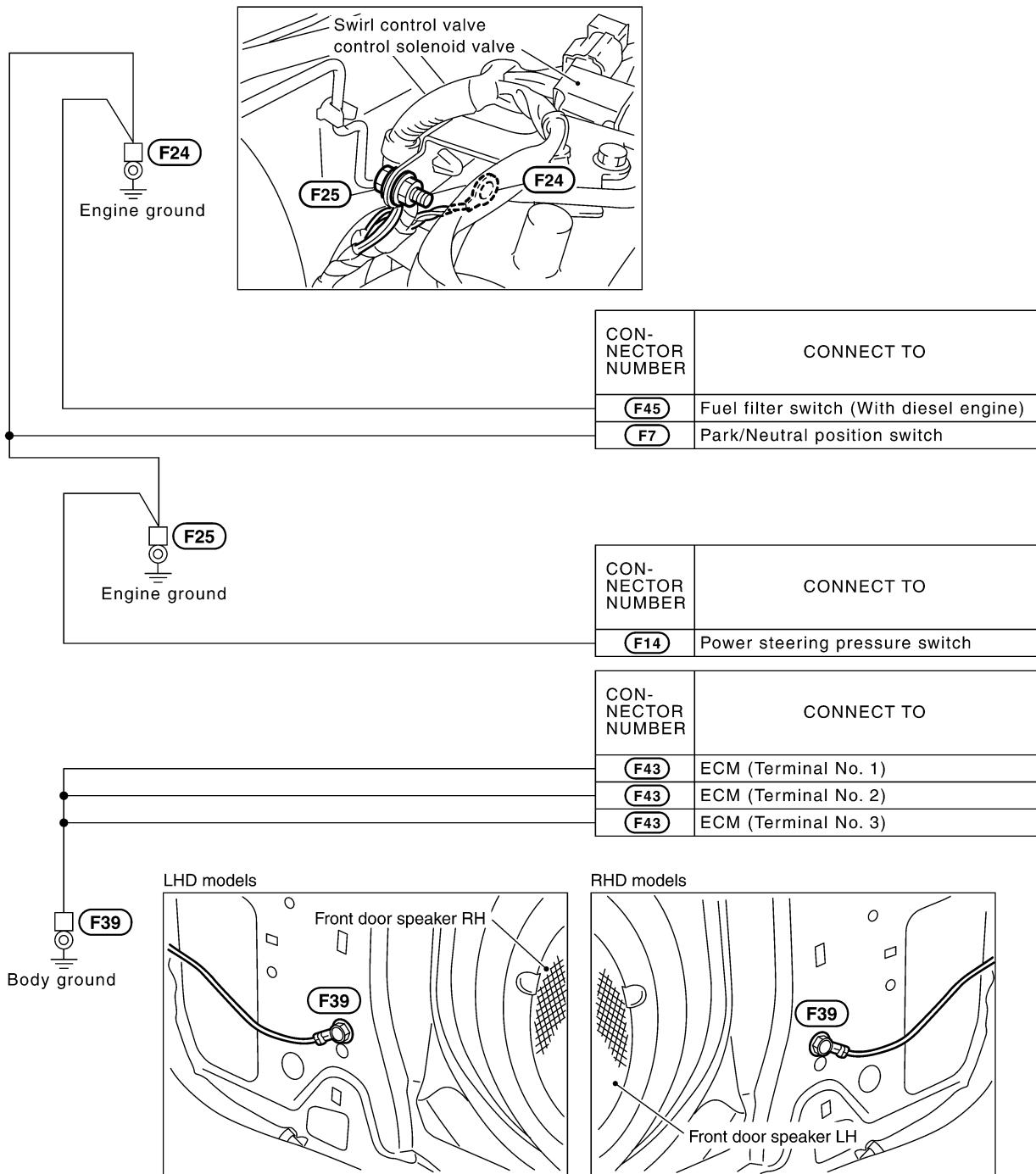
ENGINE CONTROL HARNESS/GASOLINE ENGINE MODELS



CKIA0370E

GROUND

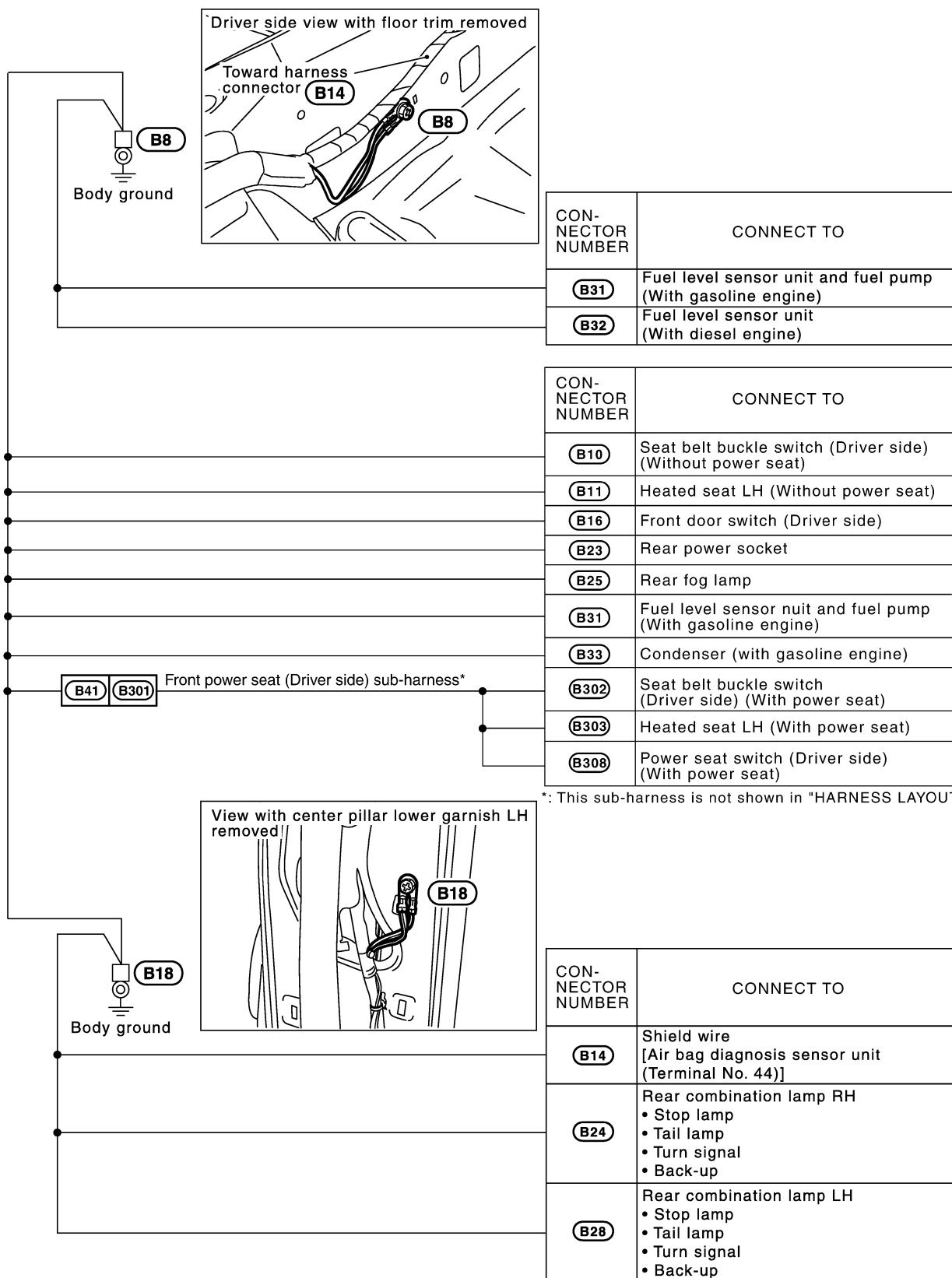
ENGINE CONTROL HARNESS/DIESEL ENGINE MODELS



CKIA0371E

GROUND

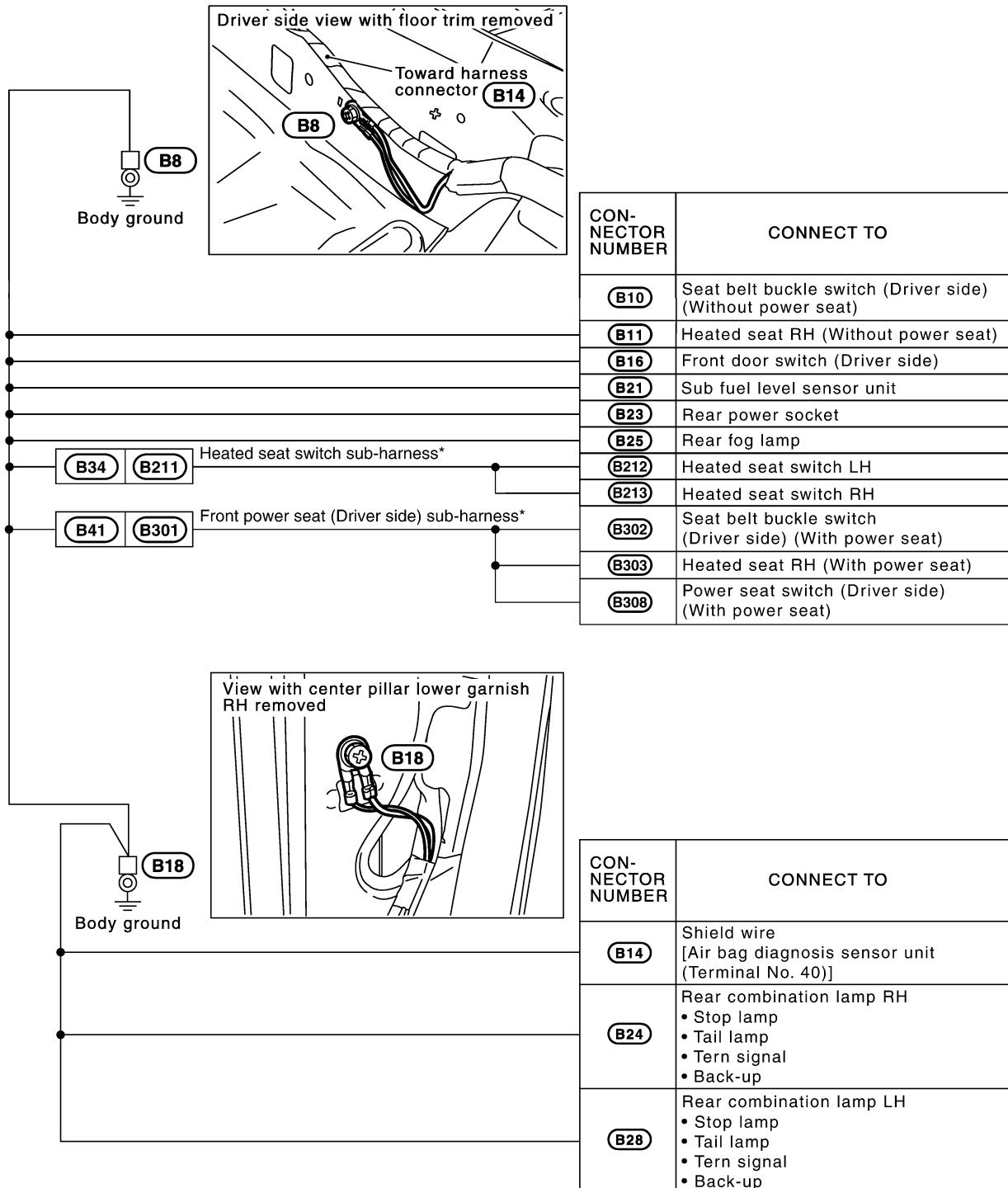
BODY HARNESS/LHD MODELS



CKIB0001E

GROUND

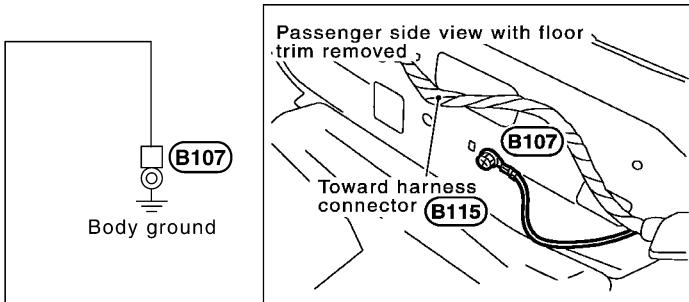
BODY HARNESS/RHD MODELS



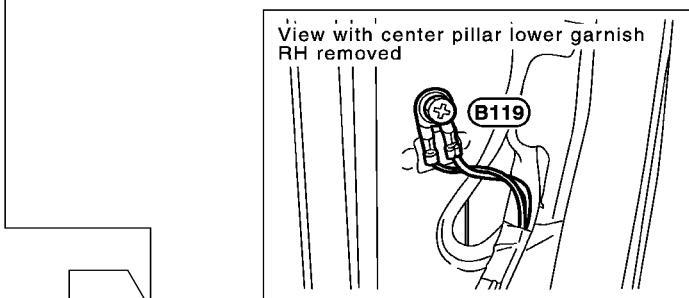
* : This sub-harness is not shown in "HARNESS LAYOUT".

GROUND

BODY NO. 2 HARNESS/LHD MODELS



CONNECTOR 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)
(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)



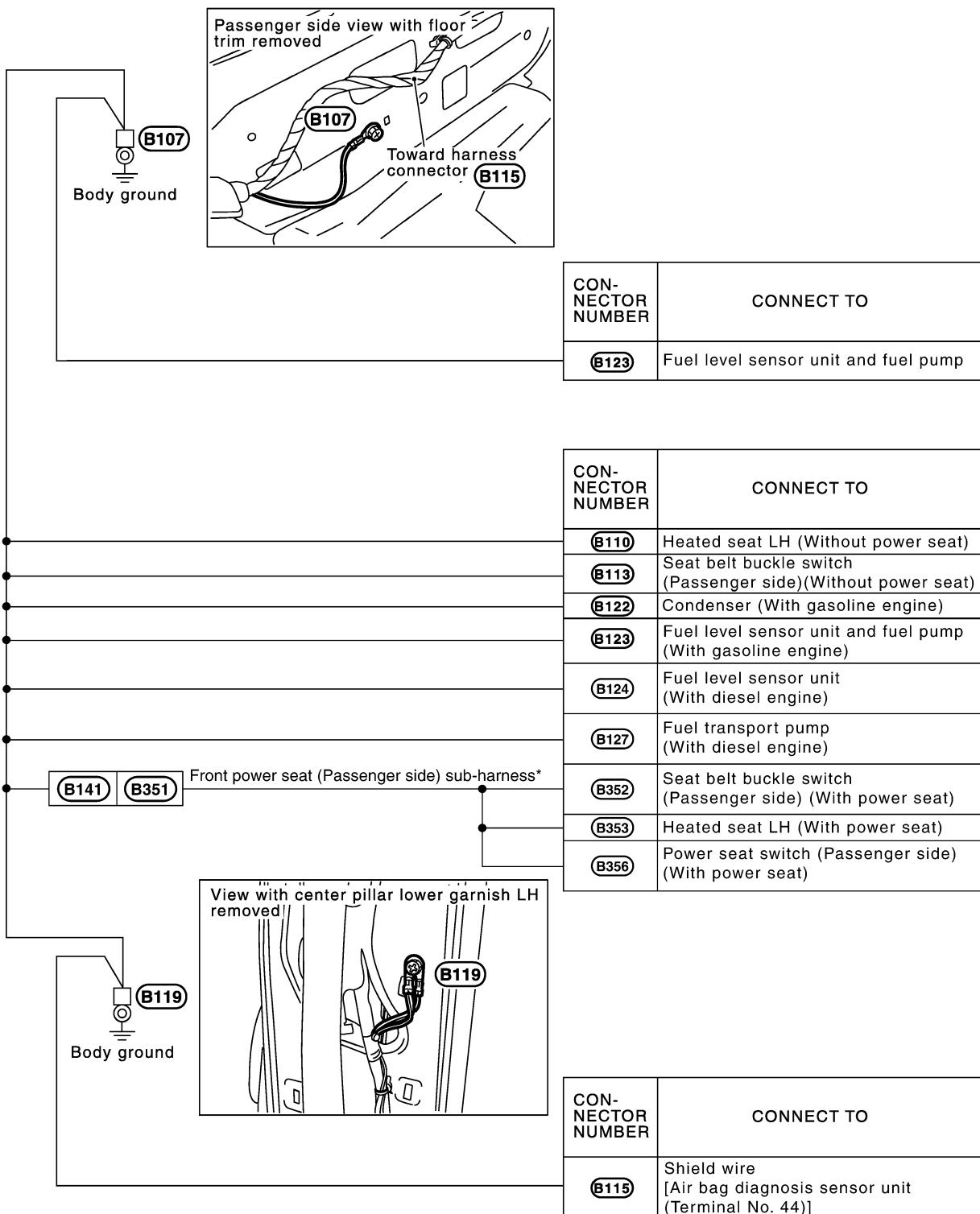
CONNECTOR NUMBER	CONNECT TO
(B115)	Shield wire [Air bag diagnosis sensor unit (Terminal No. 40)]

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

GROUND

BODY NO. 2 HARNESS/RHD MODELS

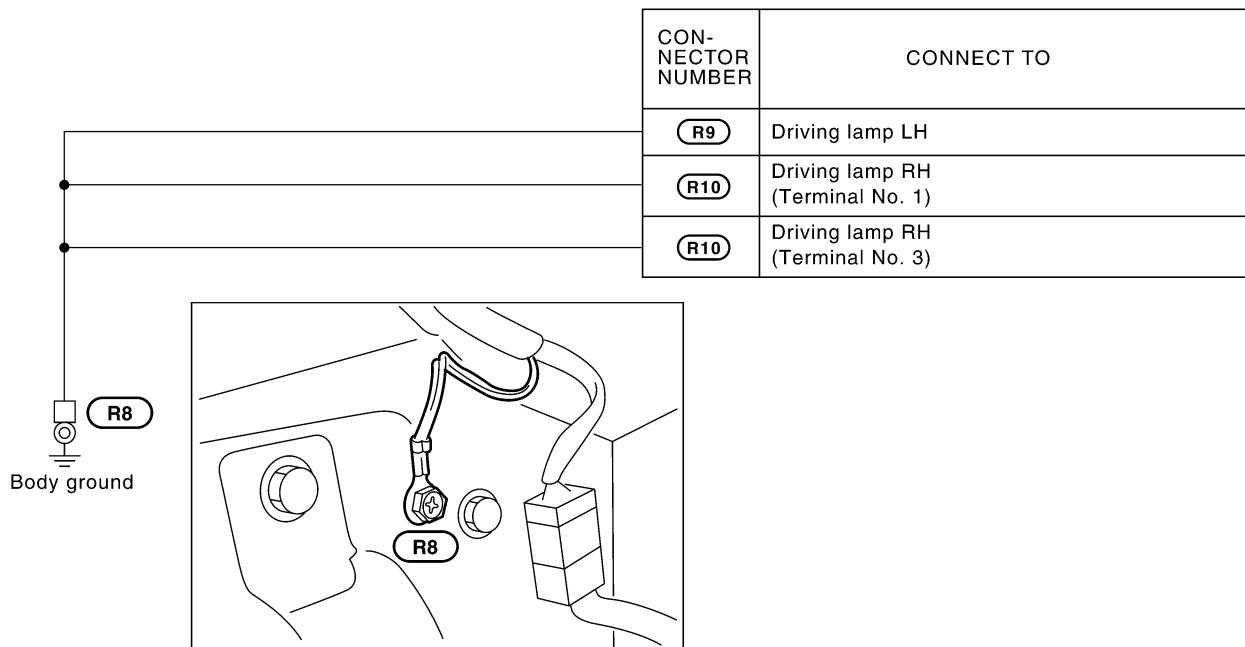
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* : This sub-harness is not shown in "HARNESS LAYOUT".

GROUND

ROOM LAMP HARNESS

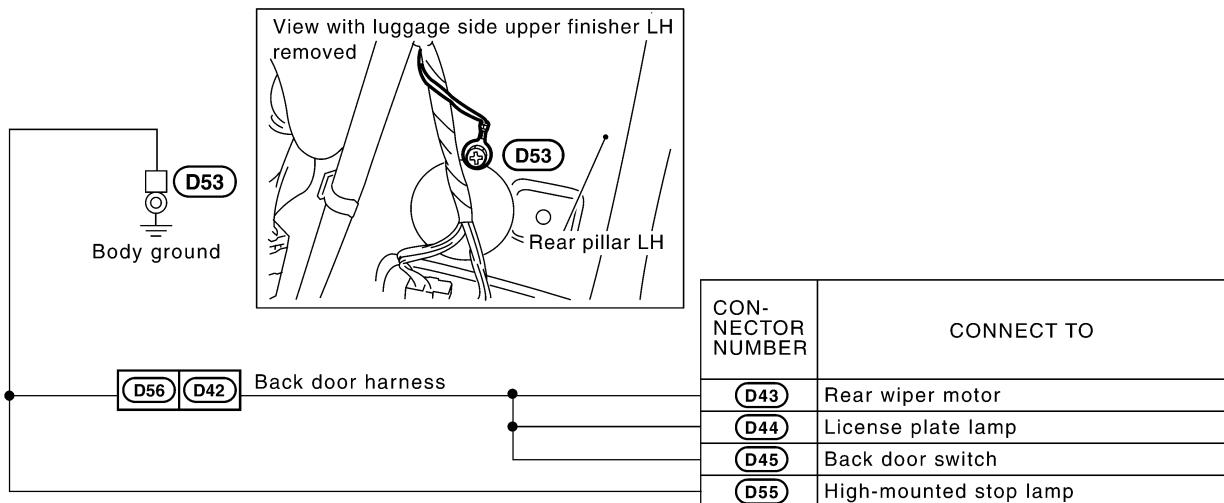


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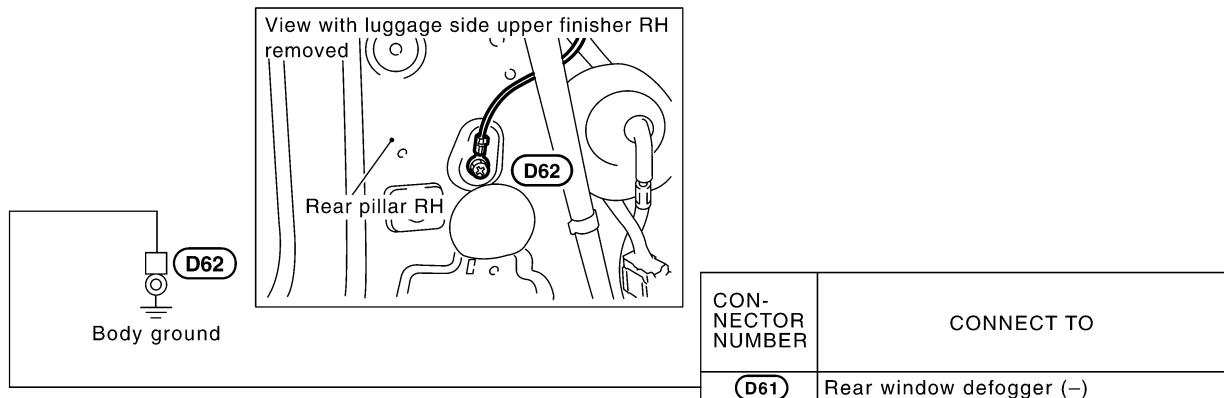
GROUND

BACK DOOR SUB HARNESS/REAR WINDOW DEFOGGER HARNESS

BACK DOOR SUB-HARNESS



REAR WINDOW DEFROGGER HARNESS



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HARNESS

HARNESS

PFP:00011

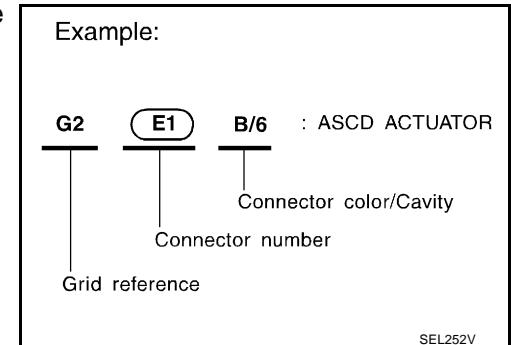
Harness Layout

HOW TO READ HARNESS LAYOUTS

EKS0032I

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

- Main Harness
- Engine Room Harness (Engine Compartment)



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

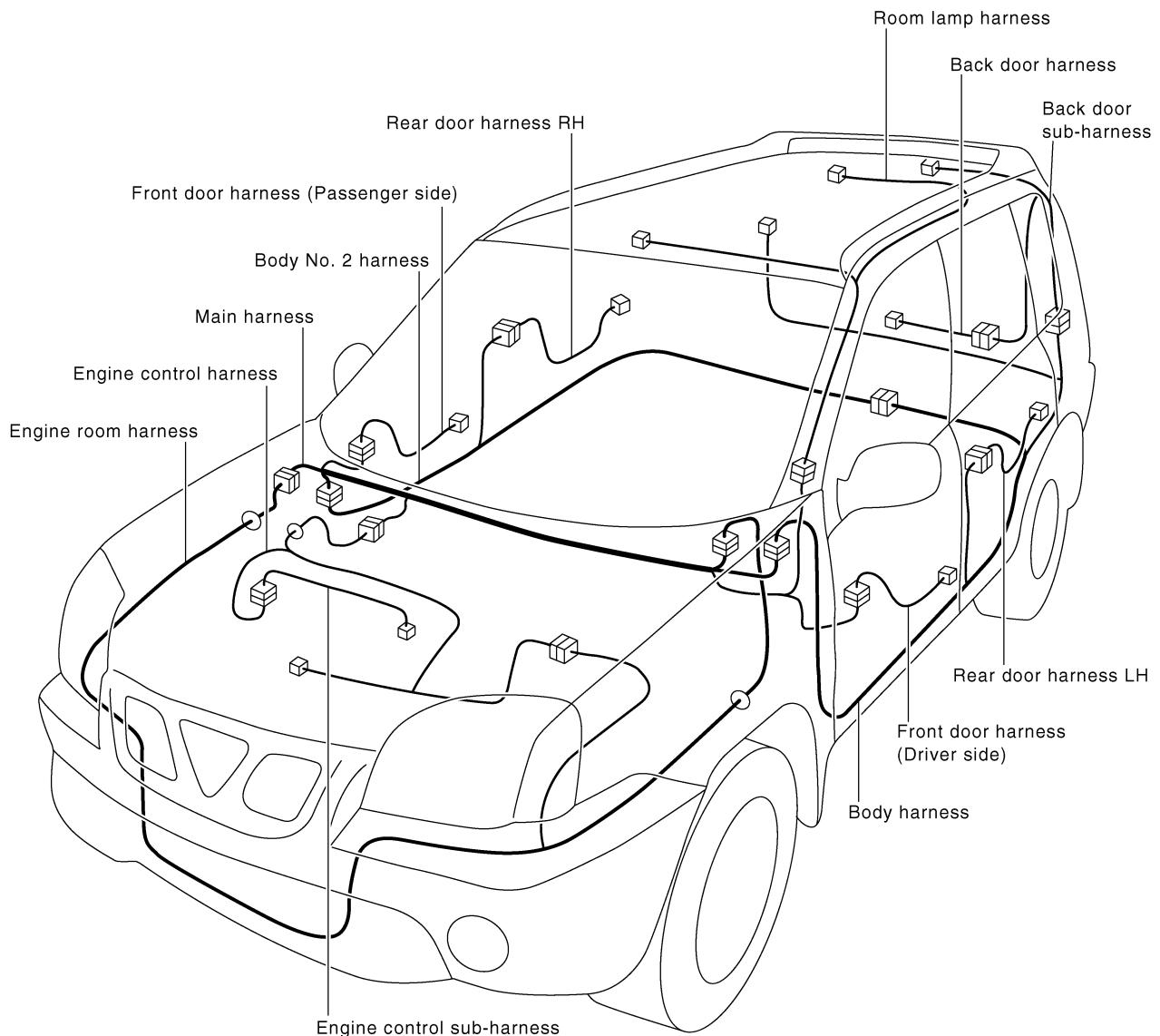
Main symbols of connector (in Harness Layout) are indicated in the below.

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

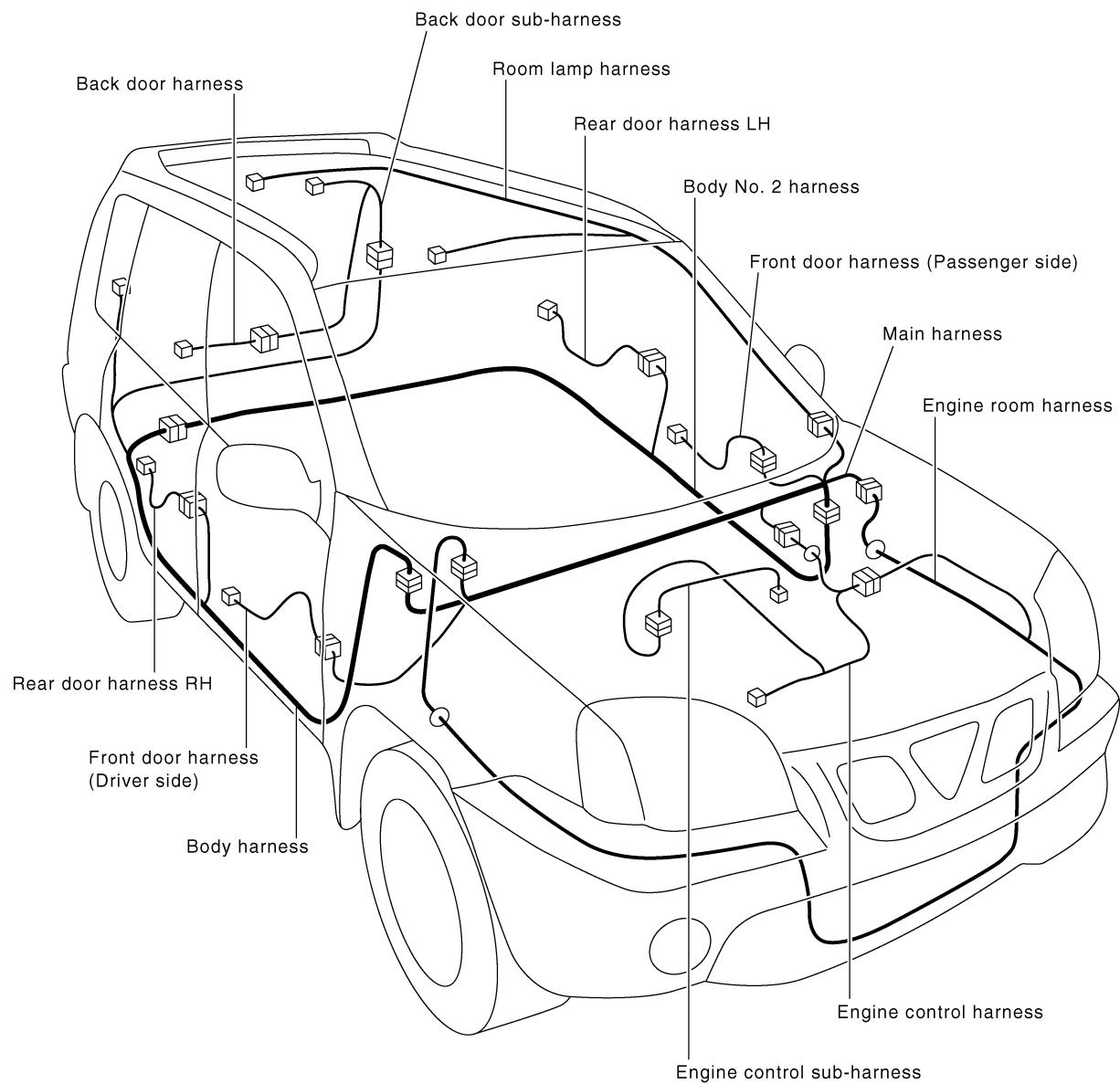


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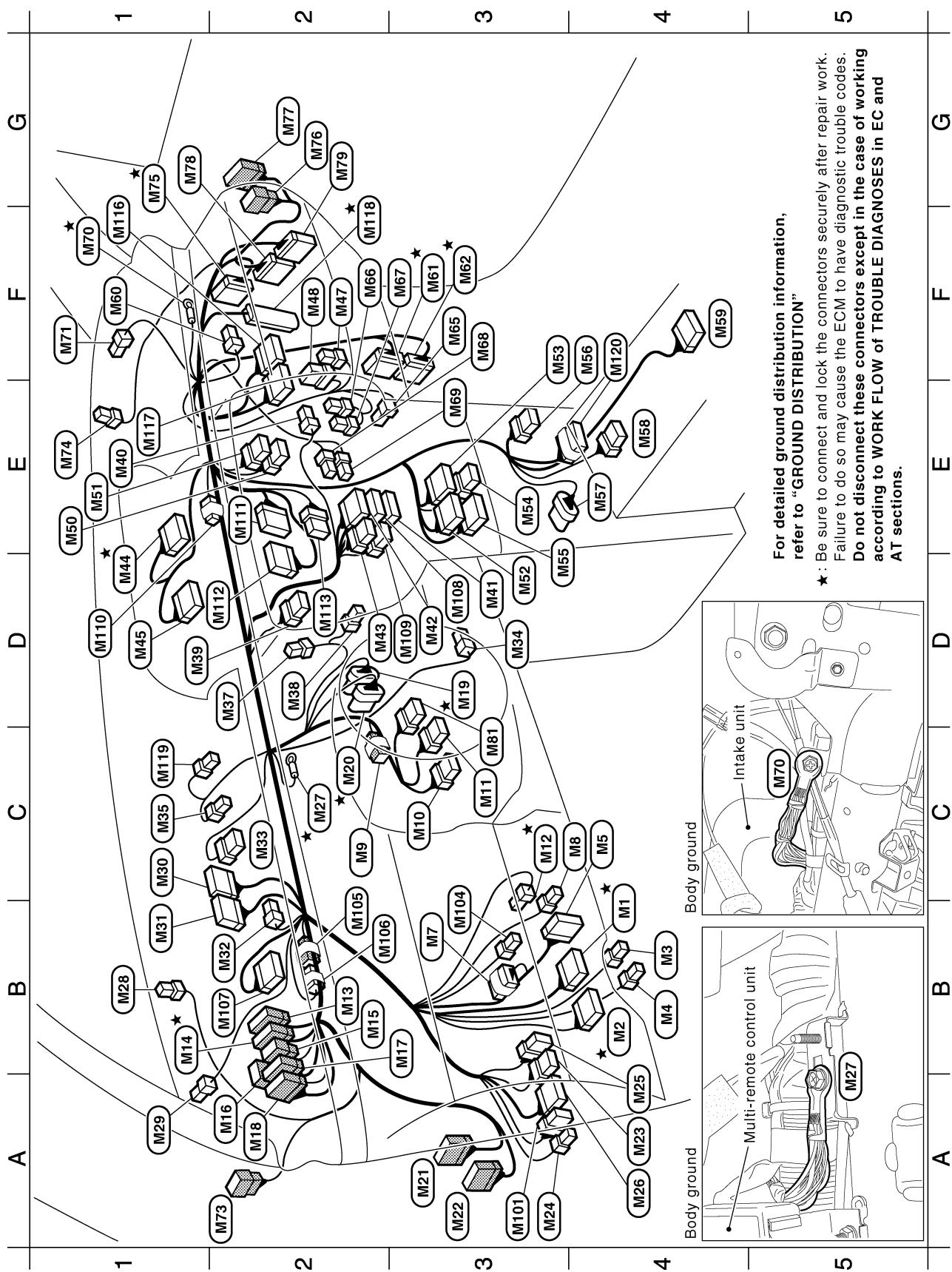
OUTLINE/RHD MODELS



TKIA0132E

HARNESS

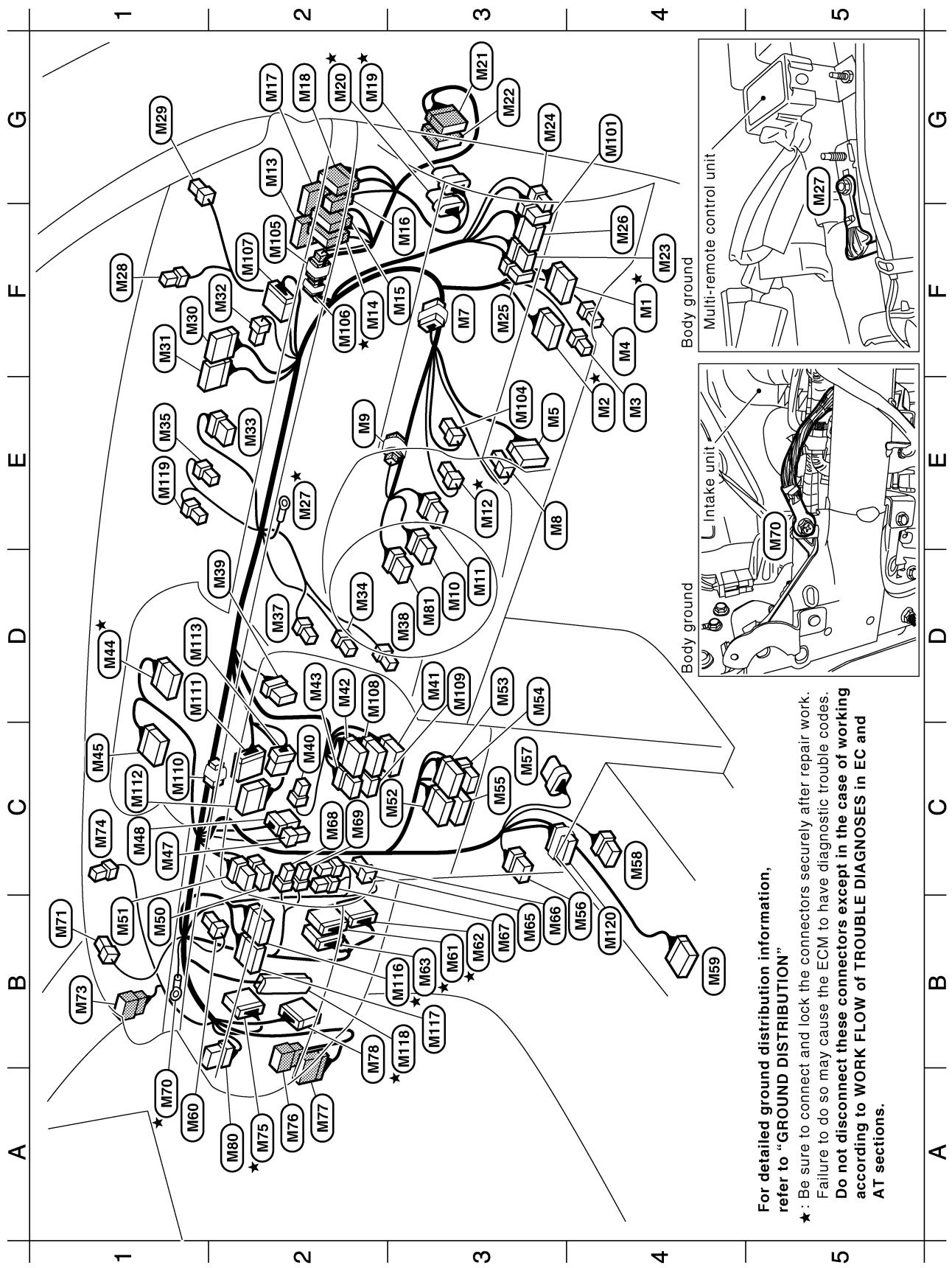
MAIN HARNESS/LHD MODELS



TKIA0133E

HARNESS

MAIN HARNESS/RHD MODELS



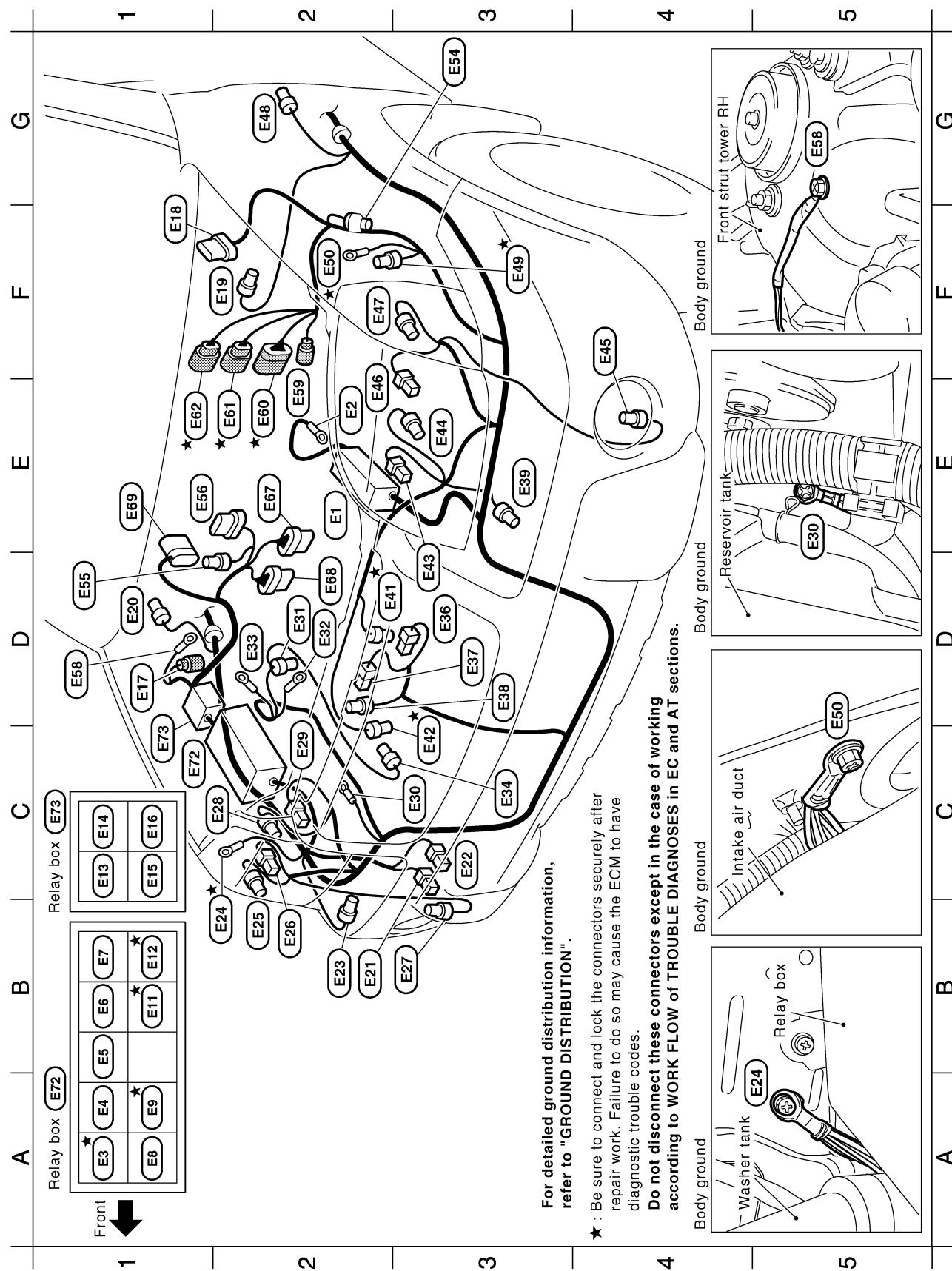
For detailed ground distribution information,
refer to "GROUND DISTRIBUTION"

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

TKIA0135E

HARNESS

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

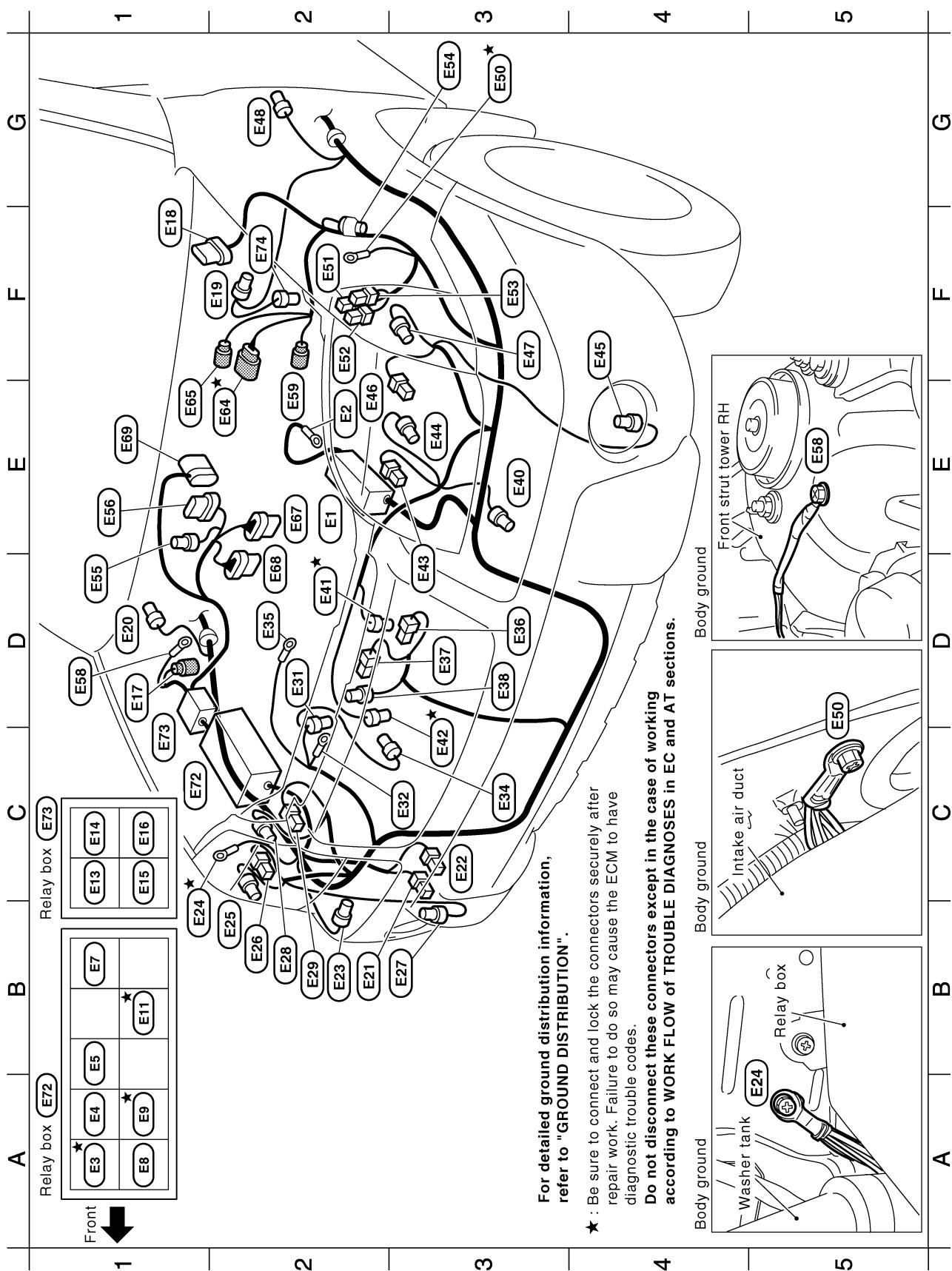


TKIA0137E

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HARNESS

Engine Compartment for Diesel Engine Models



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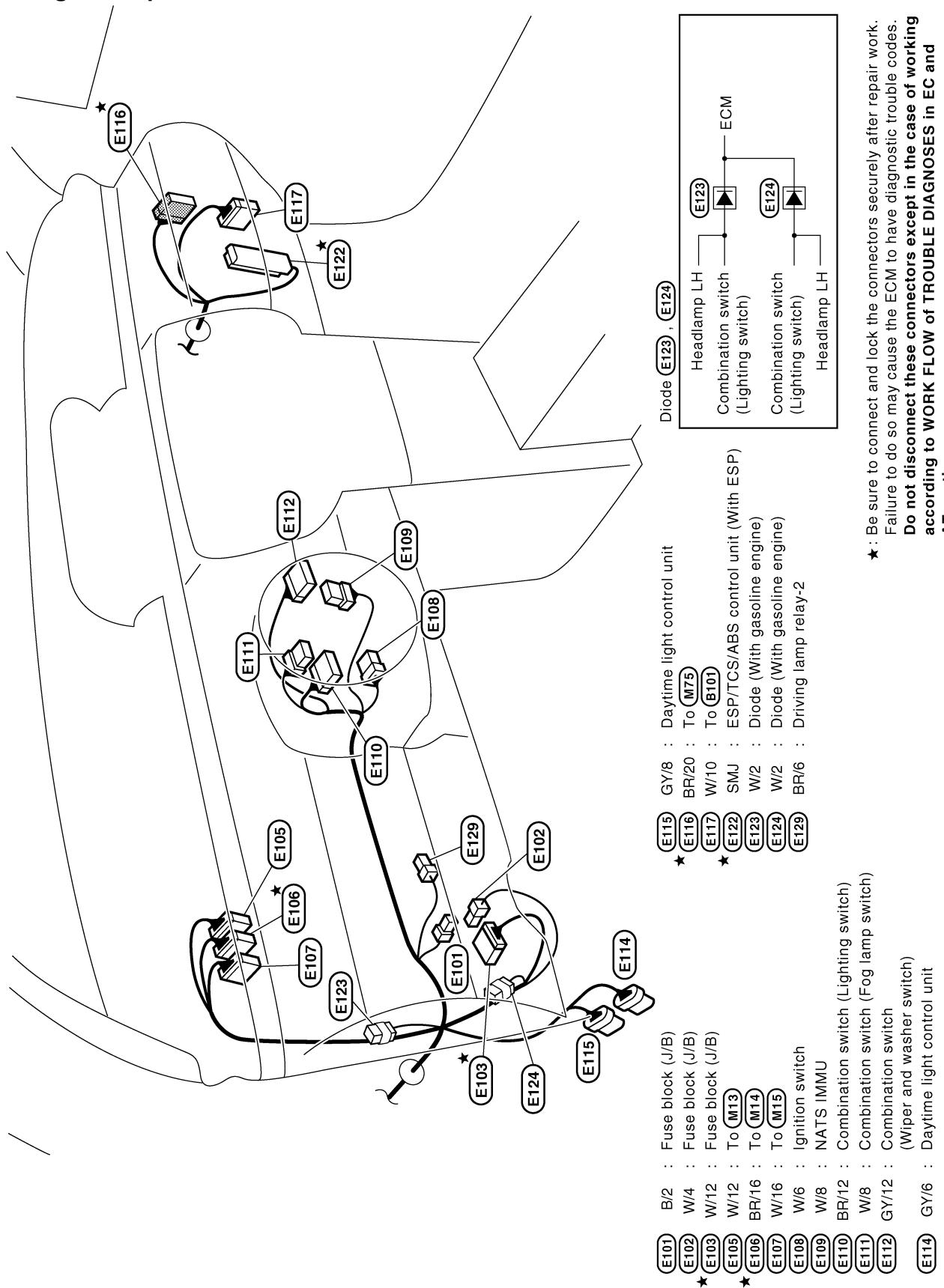
PG

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 : Cooling fan relay-3
B1	E11	BR/6 : Daytime light relay LH (With daytime light system)
C1	E13	L/4 : Driving lamp relay-1
C1	E14	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/5 : 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	W/2 : Body ground
B1	★ E24	Front turn signal lamp RH
B2	E25	GY/2 : Headlamp RH
B2	E26	B/3 : Front fog lamp RH
B3	E27	-/2 : Headlamp aiming motor RH
B2	E28	B/3 : Parking lamp RH
B2	E29	B/2 : Alternator
D2	E31	W/2 : Compressor (With auto A/C)
C3	E32	- : Glow plug
D2	E34	B/1 : Ambient sensor
D3	E35	B/2 : Dual-pressure switch (With auto A/C)
E3	E36	B/1 : Cooling fan motor-1
D3	E37	B/1 : Cooling fan motor-2
D3	E38	B/2 : Parking lamp LH
E3	E40	B/2 : Headlamp aiming motor LH
D2	★ E41	GY/4 : Front fog lamp LH
C3	★ E42	GY/4 : Headlamp LH
D3	E43	B/3 : Fuel filter switch
E3	E44	- : Be sure to connect and lock the connectors securely after repair work.
F4	E45	Failure to do so may cause the ECM to have diagnostic trouble codes.
E2	E46	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

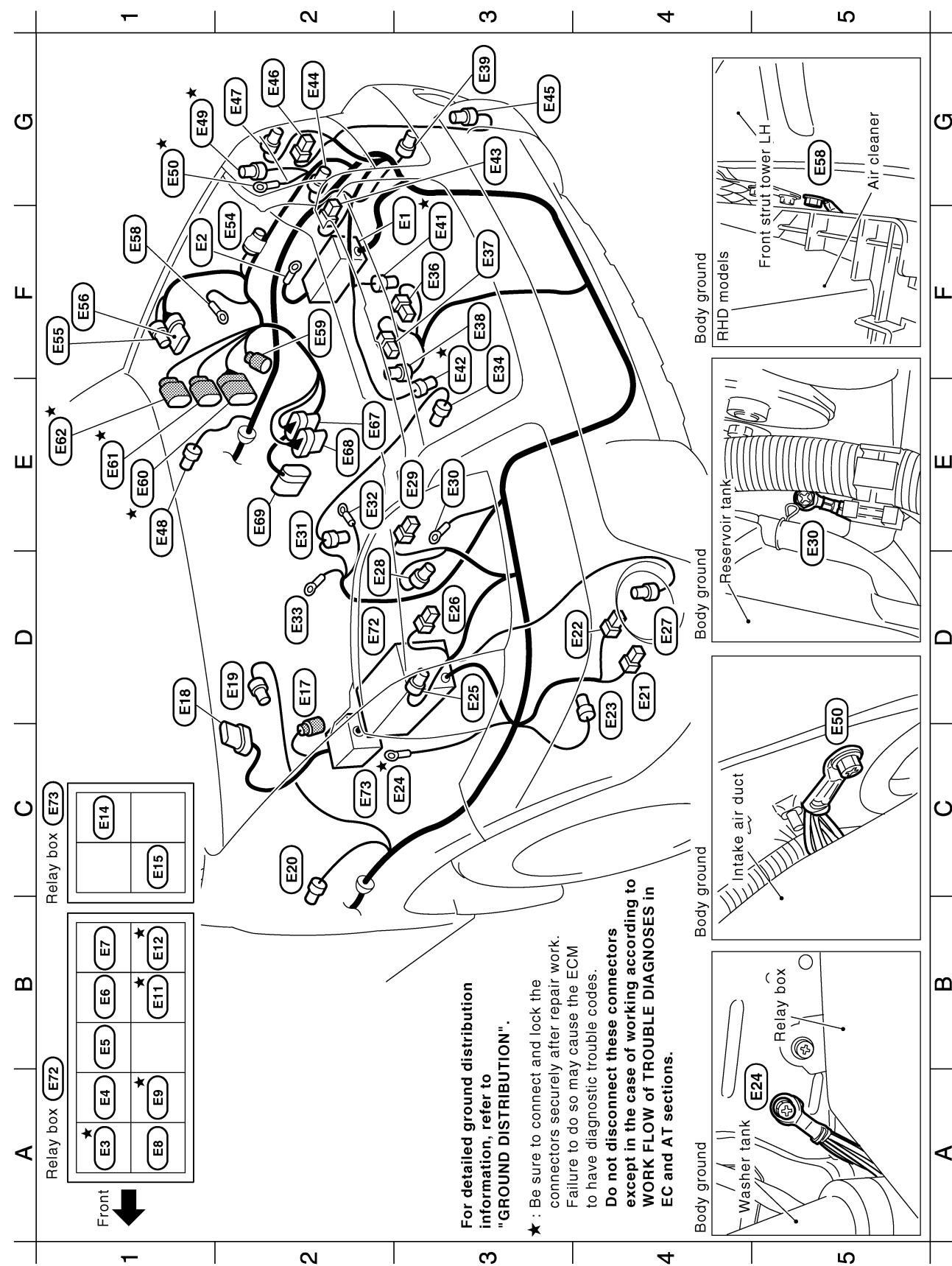


TKIA0141E

HARNESS

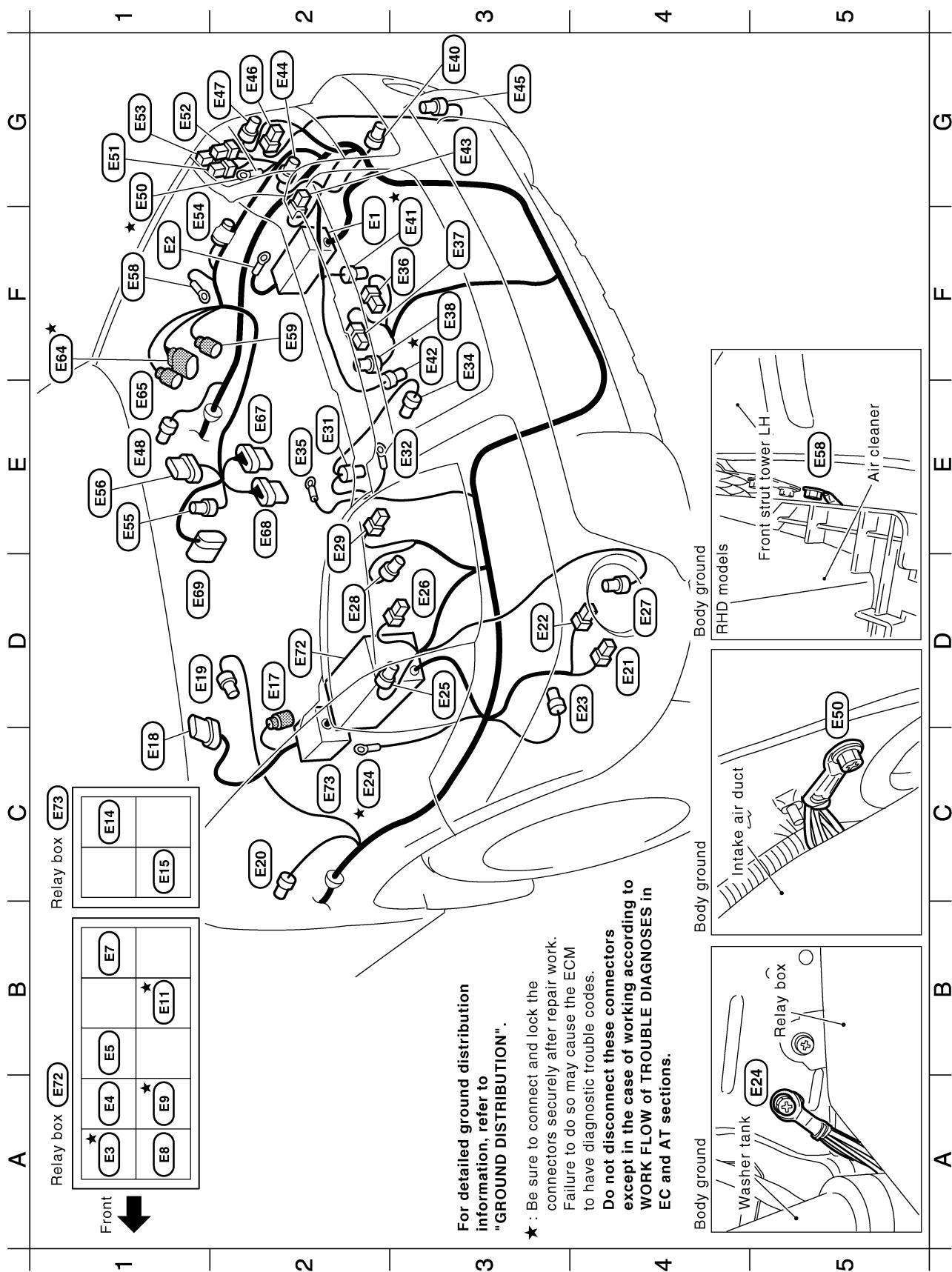
ENGINE ROOM HARNESS/RHD MODELS

Engine compartment for Gasoline Engine Models



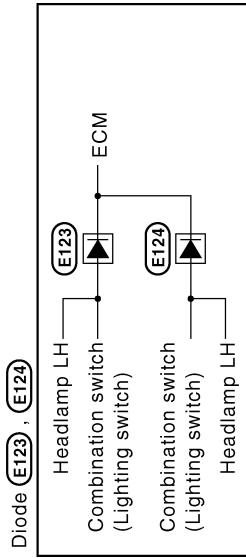
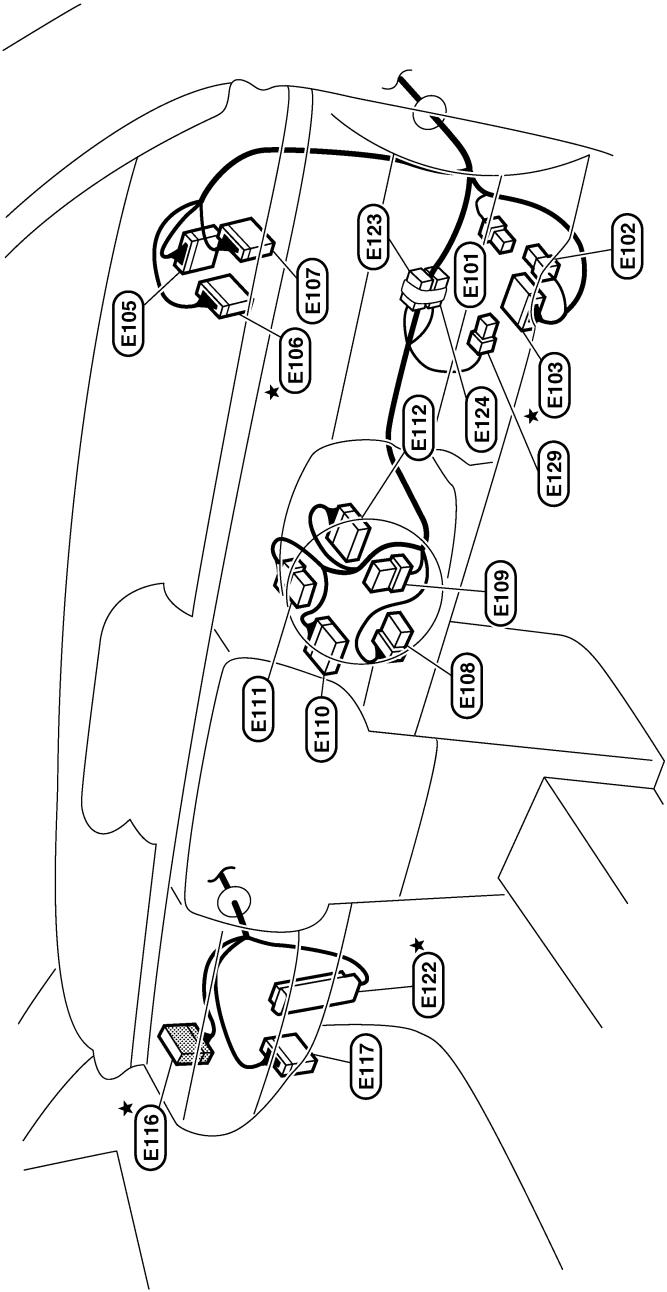
HARNESS

Engine Compartment for Diesel Engine Models



HARNESS

Passenger Compartment



E101	B/2	: Fuse block (J/B)	W/10	: To (B101)
E102	W/4	: Fuse block (J/B)	* E122	SMJ : ESP/TCS/ABS control unit (With ESP)
E103	W/12	: Fuse block (J/B)	E123	W/2 : Diode (With gasoline engine)
E105	BR1/2	: To (M13)	E124	W/2 : Diode (With gasoline engine)
E106	W/20	: To (M14)	E129	BR/6 : Driving lamp relay-2
E107	W/12	: To (M15)		
E108	W/6	: Ignition switch		
E109	W/8	: NATS IMMU		
E110	BR1/2	: Combination switch (Lighting switch)		
E111	W/8	: Combination switch (Fog lamp switch)		
E112	GY1/2	: Combination switch (Wiper and washer switch)		
E116	BR1/6	: To (M75)		

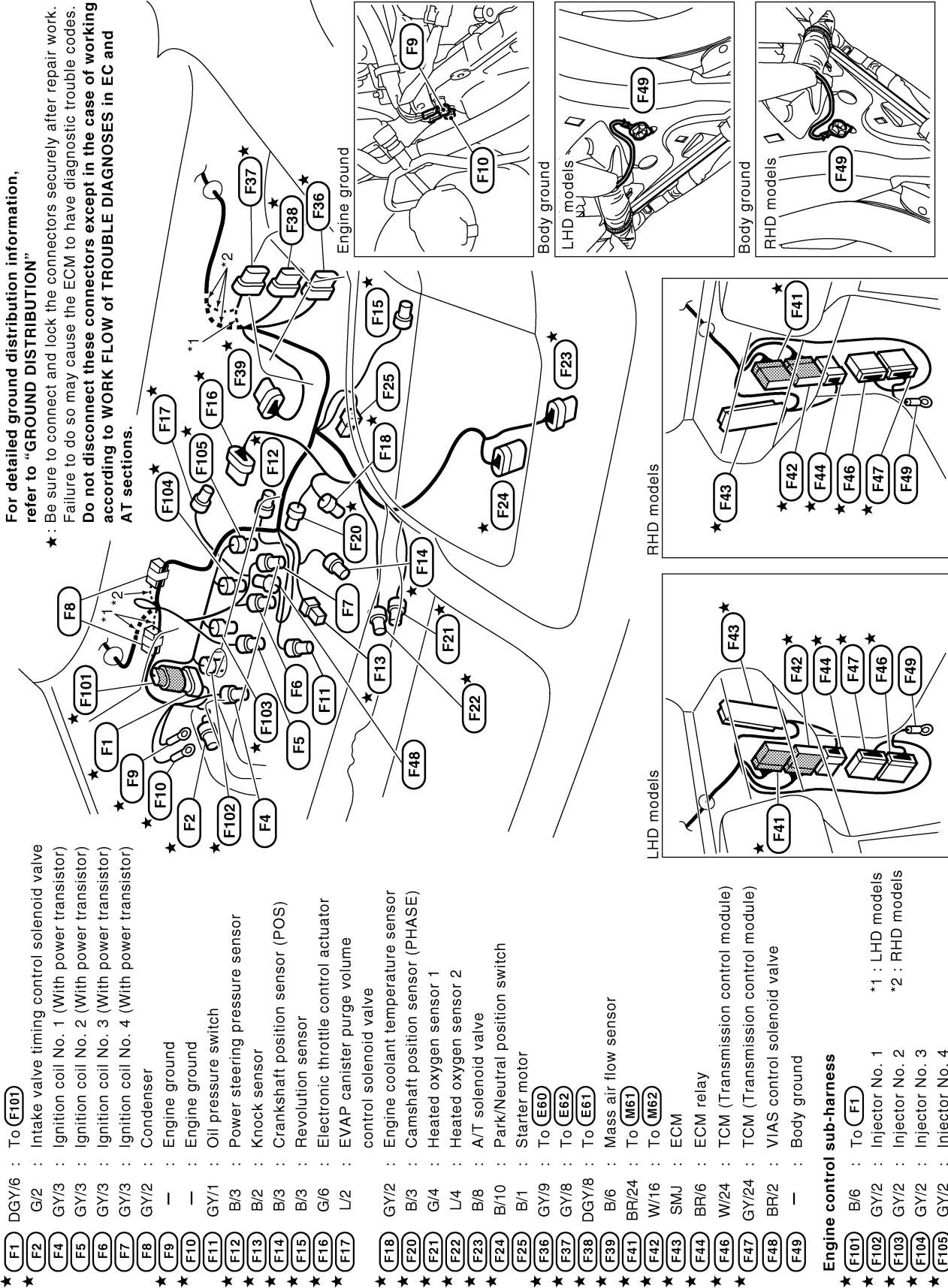
* : Be sure to connect and lock the connectors securely after repair work.

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.

HARNESS

ENGINE CONTROL HARNESS QR25 Engine Models with A/T



TKIA0147E

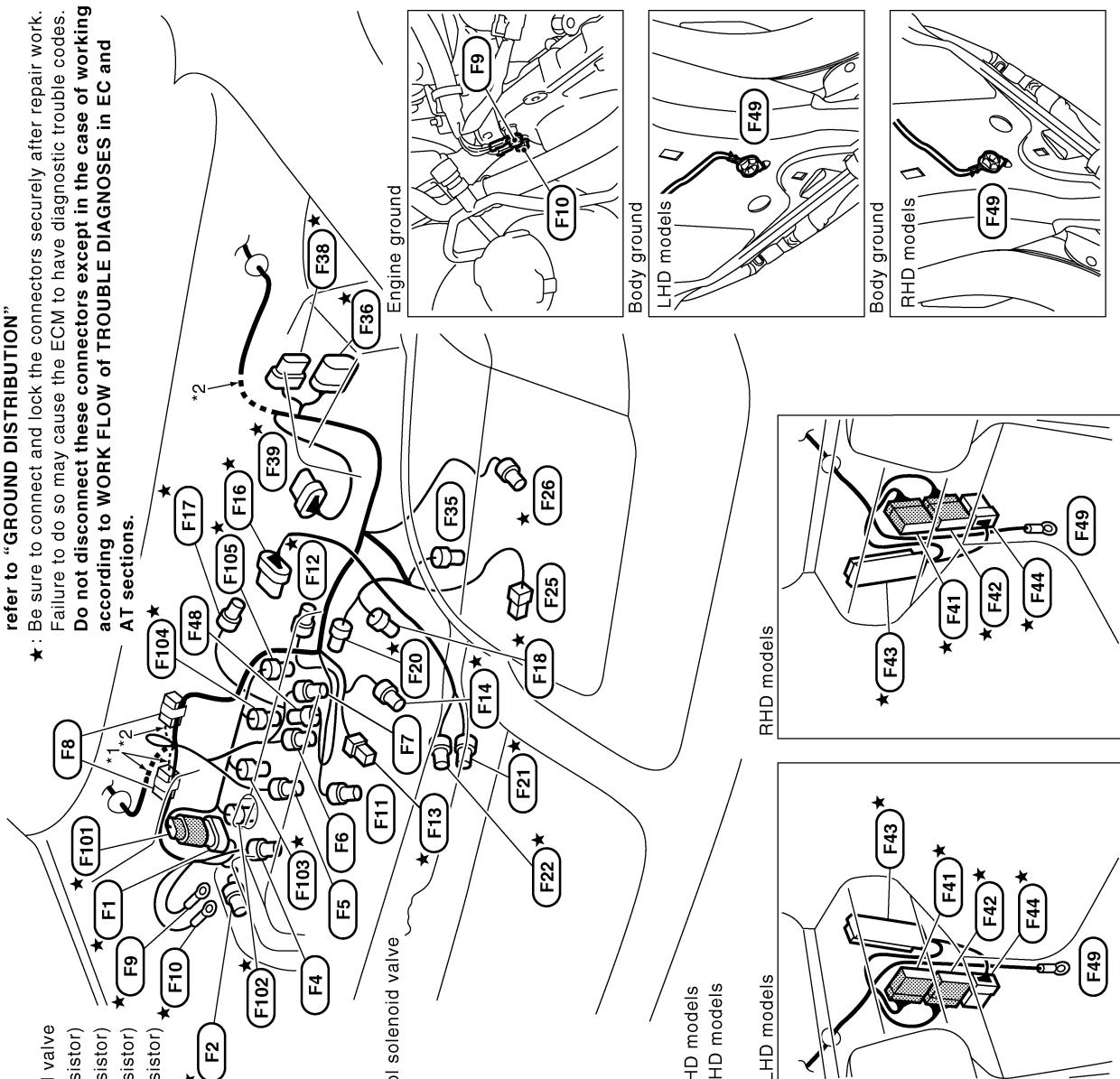
A B C D E F G H I J K M PG

HARNESS

QR25 Engine Models with M/T

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

- * 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
- : Engine ground
- : Engine ground
- * F9 —
- * F10 —



- * 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
- : Engine ground
- : Engine ground
- * F9 —
- * F10 —
- * 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 G/6 : Electronic throttle control actuator
- * F16 L/2 : EVAP canister purge volume control solenoid valve
- * F17 GY/2 : Engine coolant temperature sensor
- * F18 B/3 : Camshaft position sensor (PHASE)
- * F19 G/4 : Heated oxygen sensor 1
- * F20 L/4 : Heated oxygen sensor 2
- * F21 B/1 : Starter motor
- * F22 B/2 : Park/Neutral position switch
- * F23 B/2 : Back-up lamp switch
- * F24 GY/9 : To E60
- * F25 DGY/8 : To E61
- * F26 GY/8 : Mass air flow sensor
- * F27 B/6 : To M61
- * F28 BR/24 : To M62
- * F29 W/16 : ECM relay
- * F30 SMU : VIAS control solenoid valve
- * F31 BR/6 : Body ground
- * F32 F/6 : ECM
- * F33 F/24 : VIAS control solenoid valve
- * F34 F/2 : Body ground
- * F35 F/2 : Body ground
- * F36 F/2 : Body ground
- * F37 F/2 : Body ground
- * F38 F/2 : Body ground
- * F39 B/6 : Mass air flow sensor
- * F40 BR/24 : To F1
- * F41 W/16 : To M62
- * F42 SMU : VIAS control solenoid valve
- * F43 BR/6 : Body ground
- * F44 F/6 : Injector No. 1
- * F45 GY/2 : Injector No. 2
- * F46 GY/2 : Injector No. 3
- * F47 GY/2 : Injector No. 4

- 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

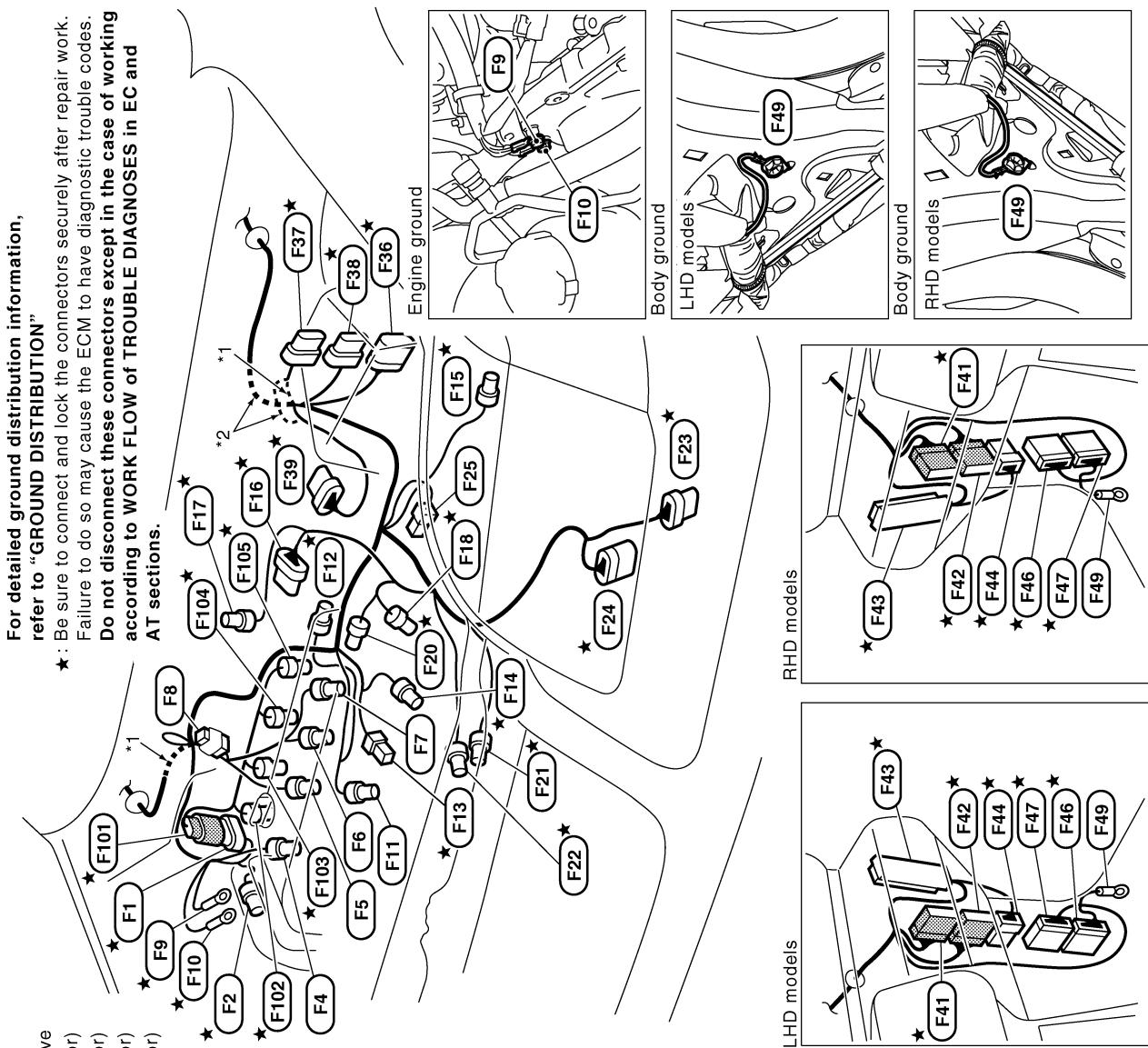
QR20 Engine Models with A/T

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

- * F1 DGY/6 : To (F101)
- * F2 G2 : 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
- * 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 GY/8 : To (E62)
- * F27 DGY/8 : To (E61)
- * F28 B/6 : Mass air flow sensor
- * F29 BR/24 : To (M61)
- * F30 W/16 : To (M62)
- * F31 SMJ : ECM
- * F32 BR/6 : ECM relay
- * F33 W/24 : TCM (Transmission control module)
- * F34 GY/24 : TCM (Transmission control module)
- * F35 - : Body ground

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



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HARNESS

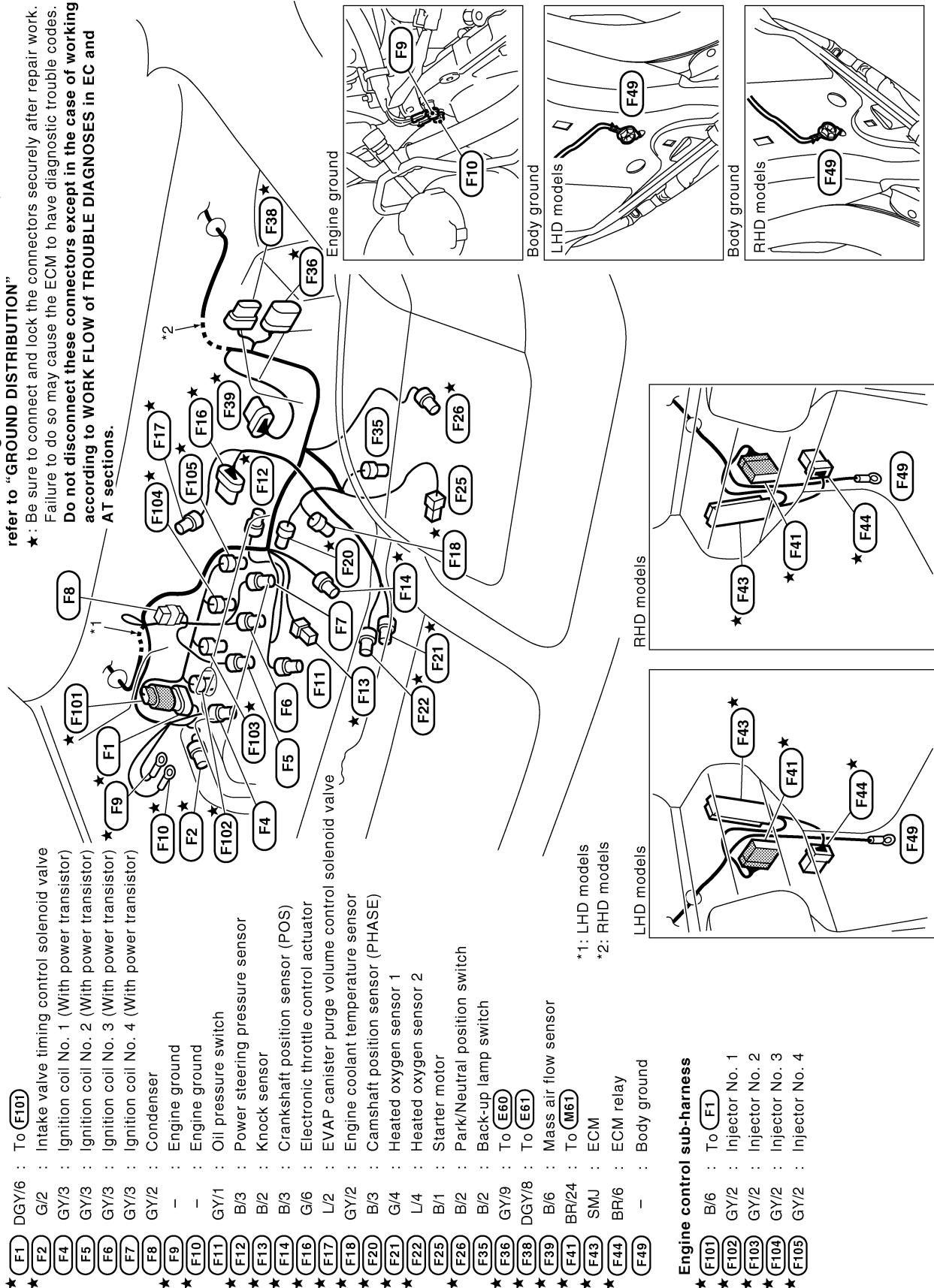
QR20 Engine Models with M/T

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

* : Be sure to connect and lock the connectors securely after repair work.

Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working

according to WORK FLOW of TROUBLE DIAGNOSES in EC and
AT sections.

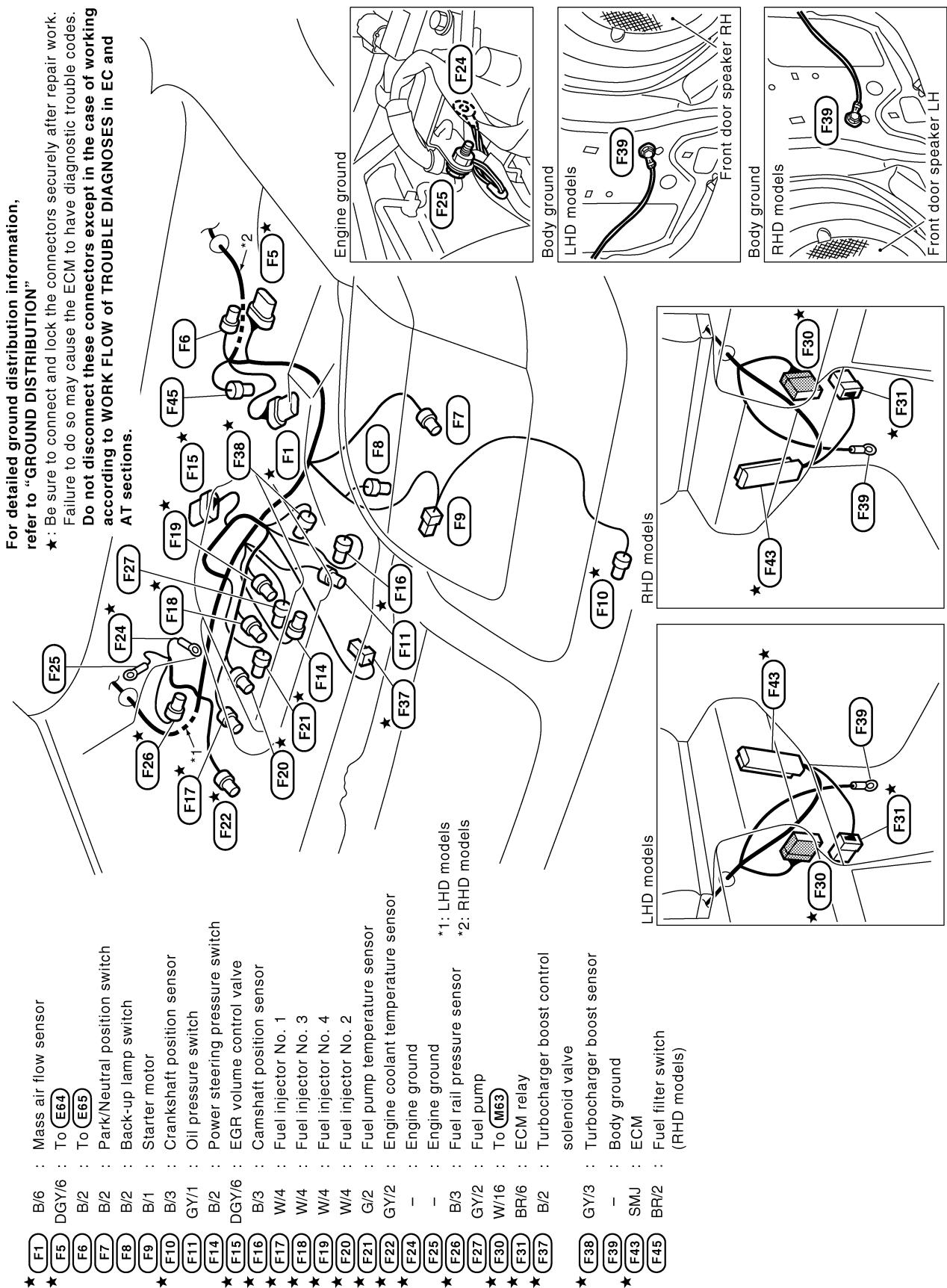


HARNESS

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 DIAGNOSE in EC and
AT sections.



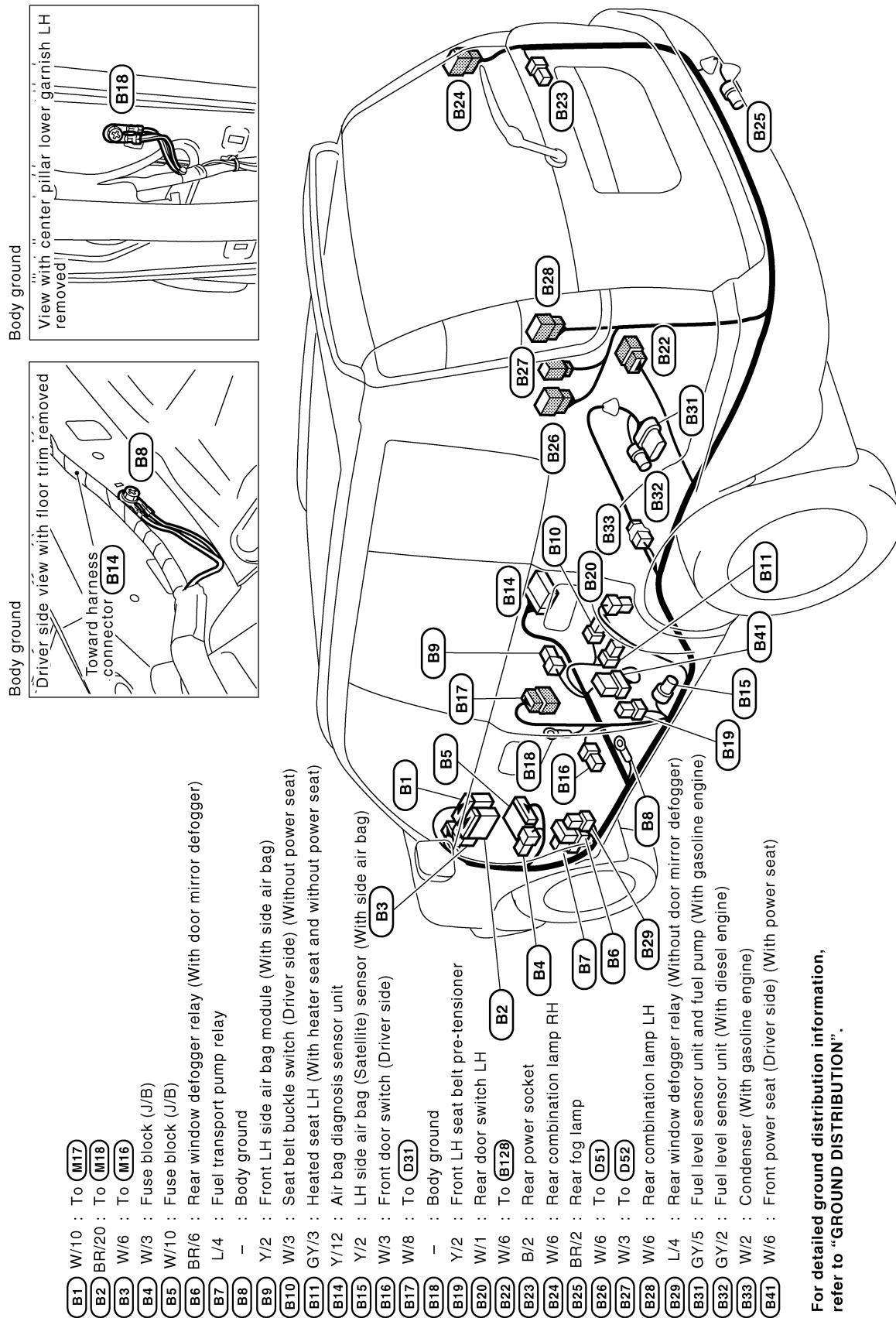
TKIA0150E

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

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HARNESS

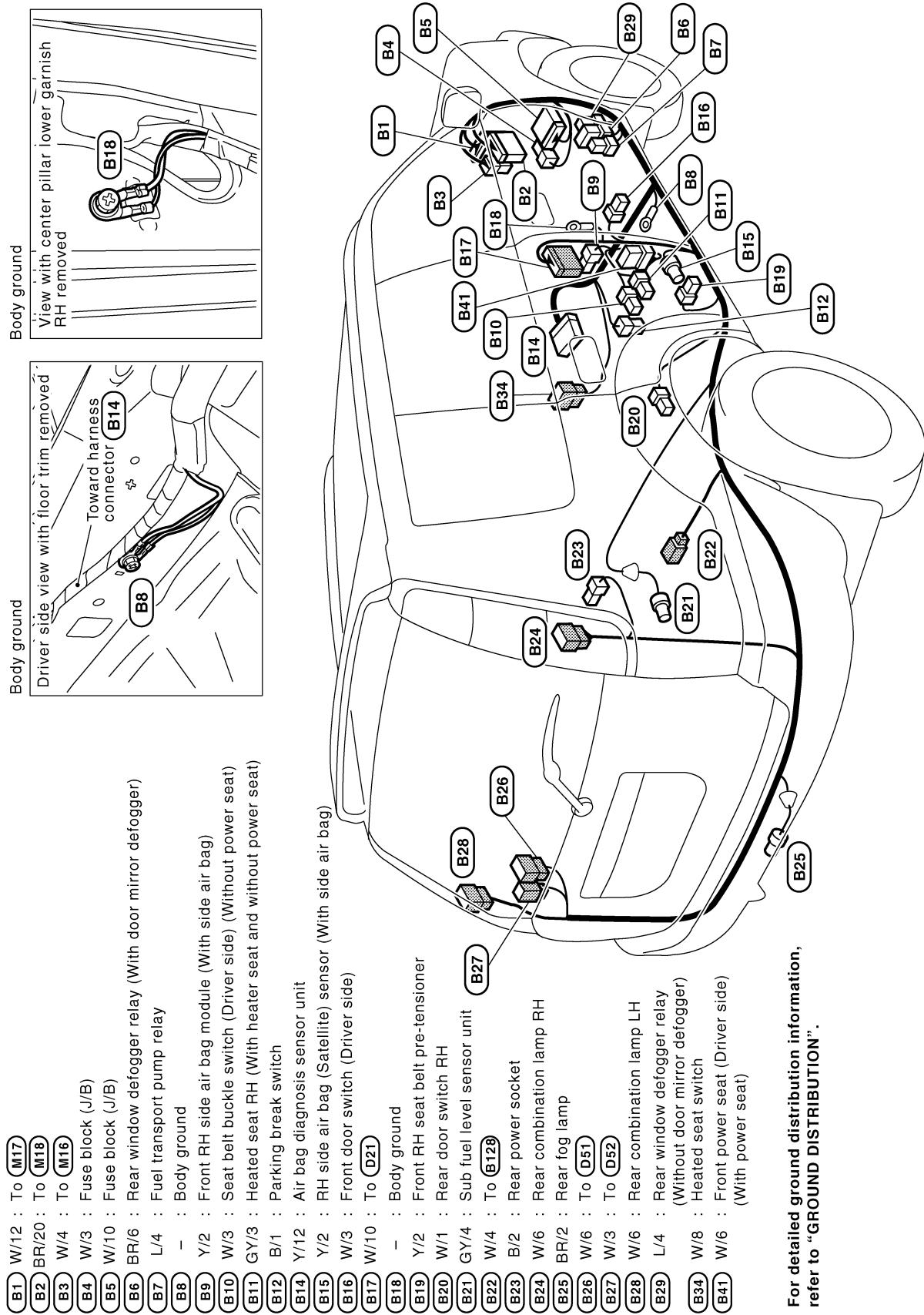
BODY HARNESS/LHD MODELS



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

HARNESS

BODY HARNESS/RHD MODELS

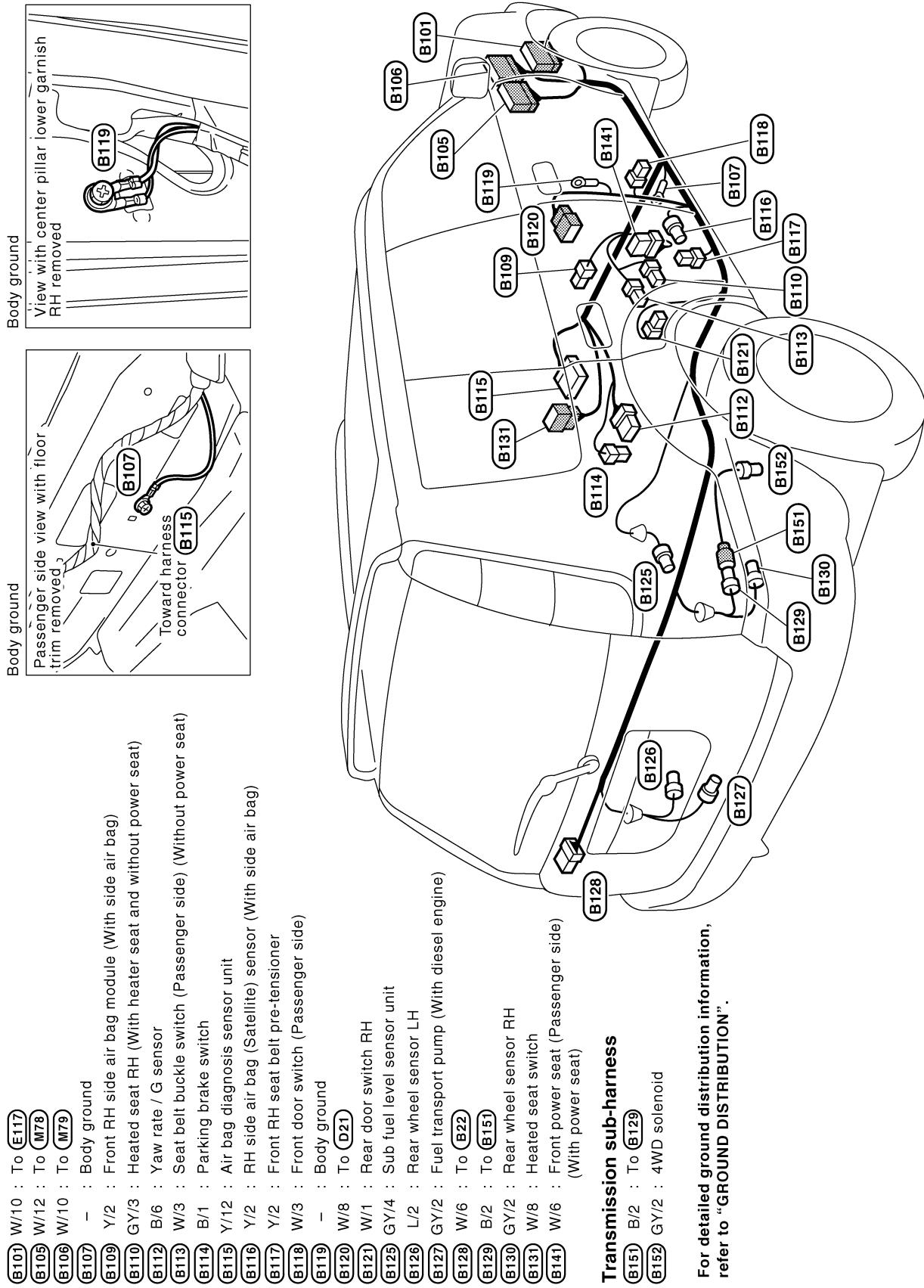


For detailed ground distribution information,
refer to "GROUND DISTRIBUTION".

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HARNESS

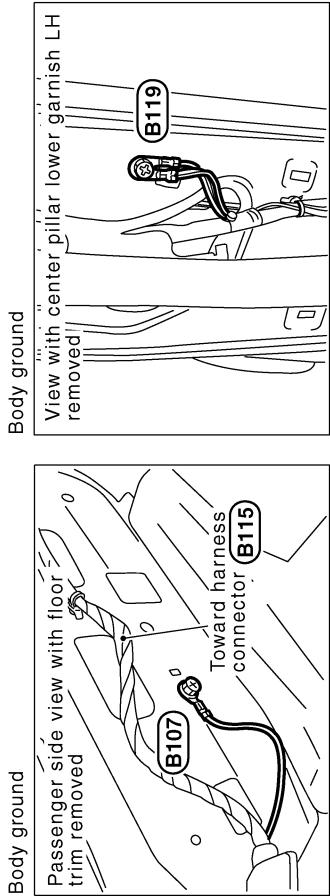
BODY NO. 2 HARNESS/LHD MODELS



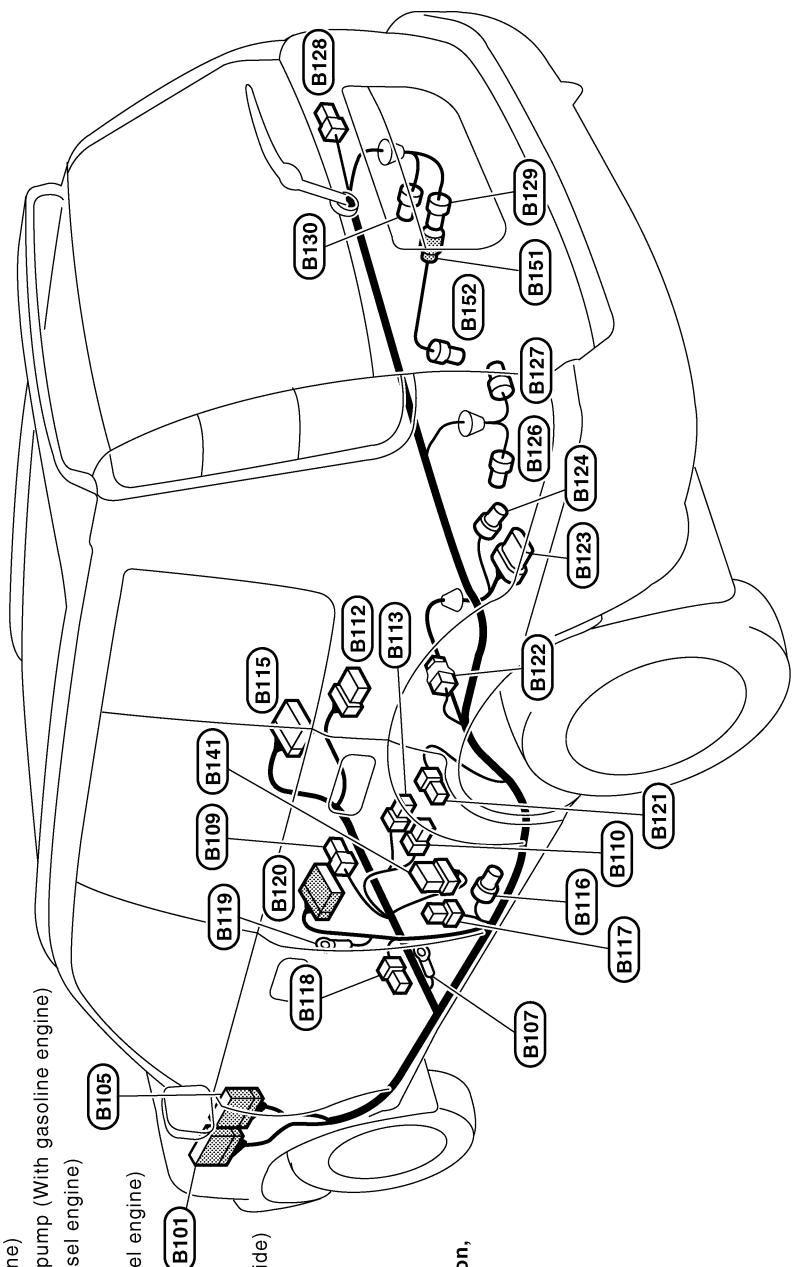
TKIB0059E

HARNESS

BODY NO. 2 HARNESS/RHD MODELS



- (B101)** W/10 : To **(E117)**
(B105) BR/16 : To **(W78)**
(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/2 : 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
(B141) W/6 : Front power seat (Passenger side)
 (With power seat)



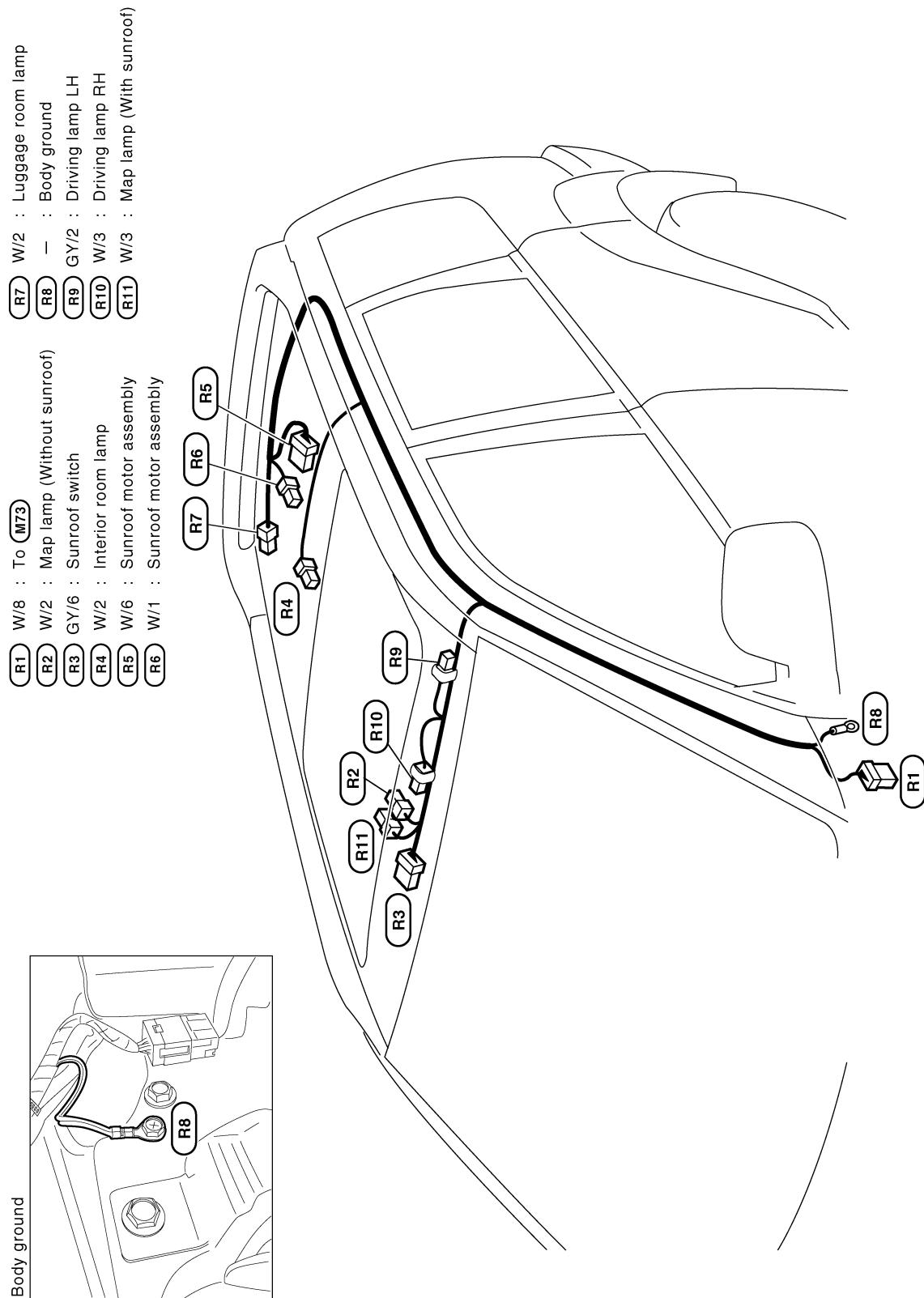
Transmission sub-harness

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

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

HARNESS

ROOM LAMP HARNESS



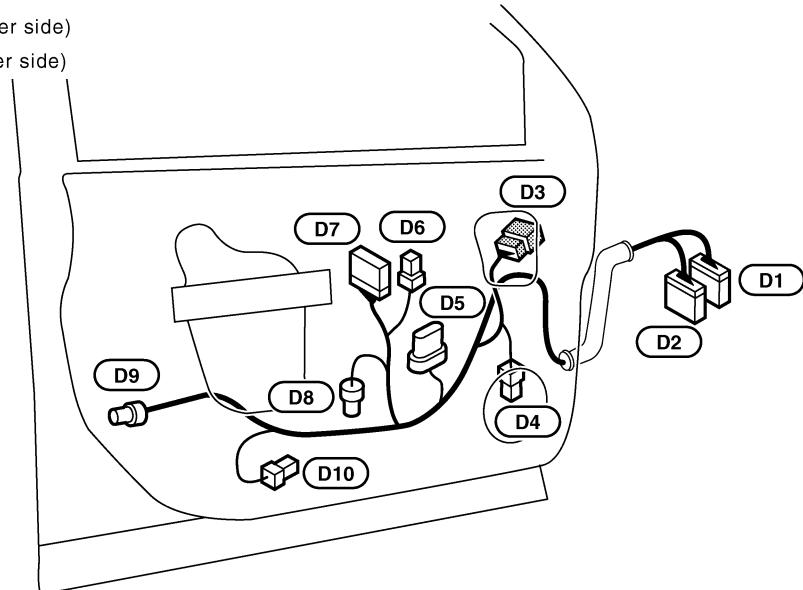
TKIA0155E

HARNESS

FRONT DOOR HARNESS/LHD MODELS

LH Side

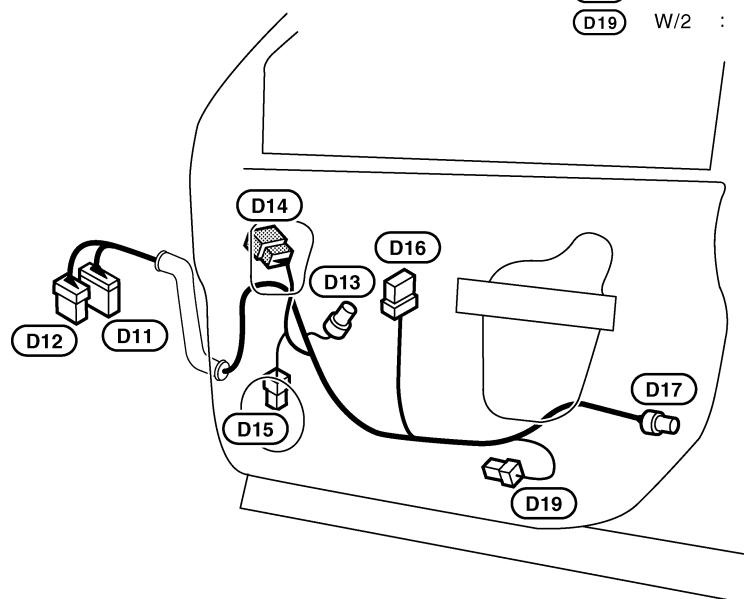
- (D1) W/16 : To **M21**
- (D2) BR/12 : To **M22**
- (D3) W/8 : Door mirror actuator (Driver side)
- (D4) W/2 : Front door speaker LH
- (D5) GY/6 : Front power window motor (Driver side)
- (D6) W/3 : Power window main switch
- (D7) W/16 : Power window main switch
- (D8) BR/3 : Door key cylinder switch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



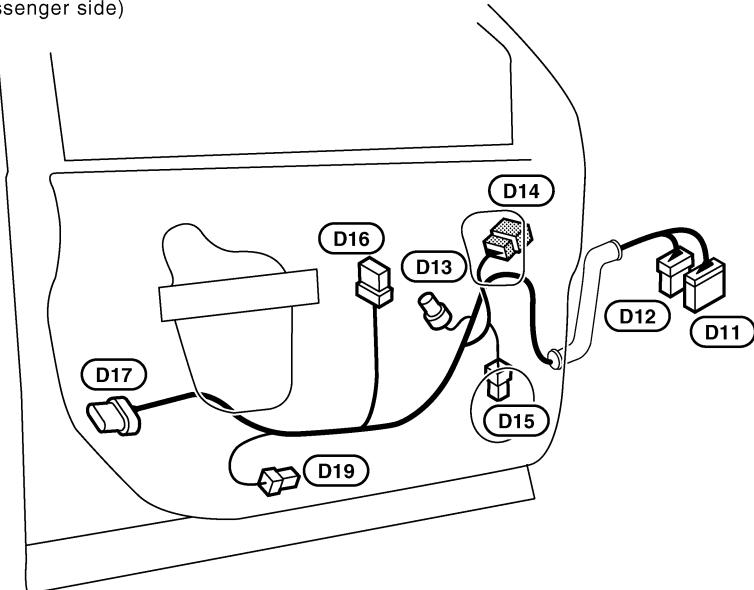
TKIA0157E

HARNESS

FRONT DOOR HARNESS/RHD MODELS

LH Side

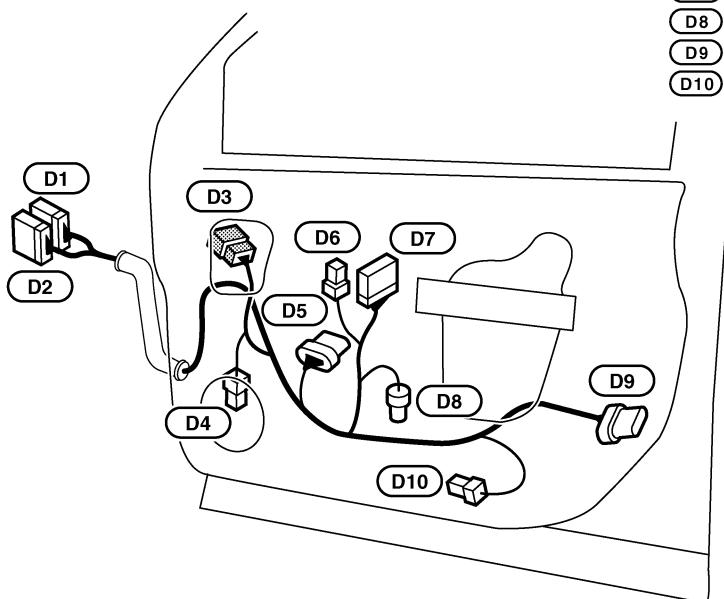
- [D11] W/12 : To **M77**
- [D12] BR/8 : To **M76**
- [D13] BR/2 : Front power window motor (Passenger side)
- [D14] W/8 : Door mirror actuator (Passenger side)
- [D15] W/2 : Front door speaker LH
- [D16] W/8 : Front power window switch (Passenger side)
- [D17] B/6 : Front door lock actuator (Passenger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



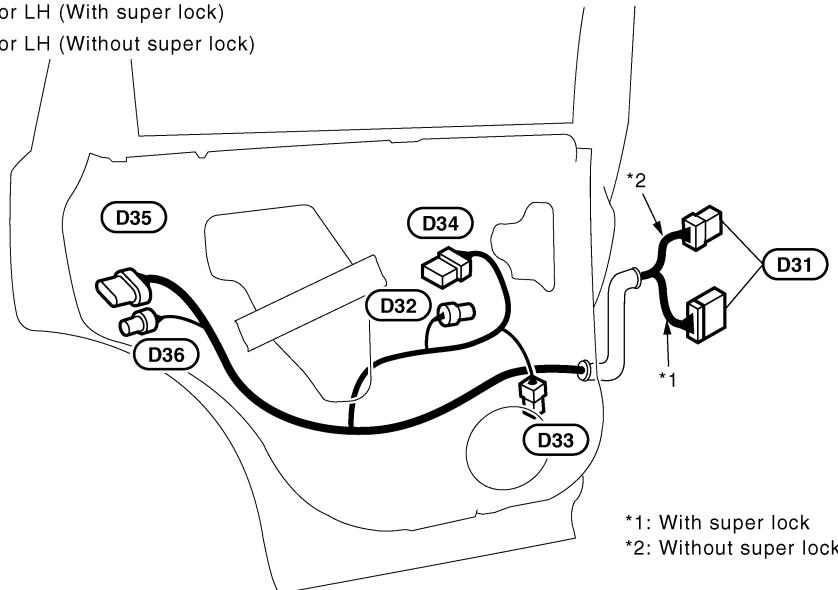
TKIA0158E

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)

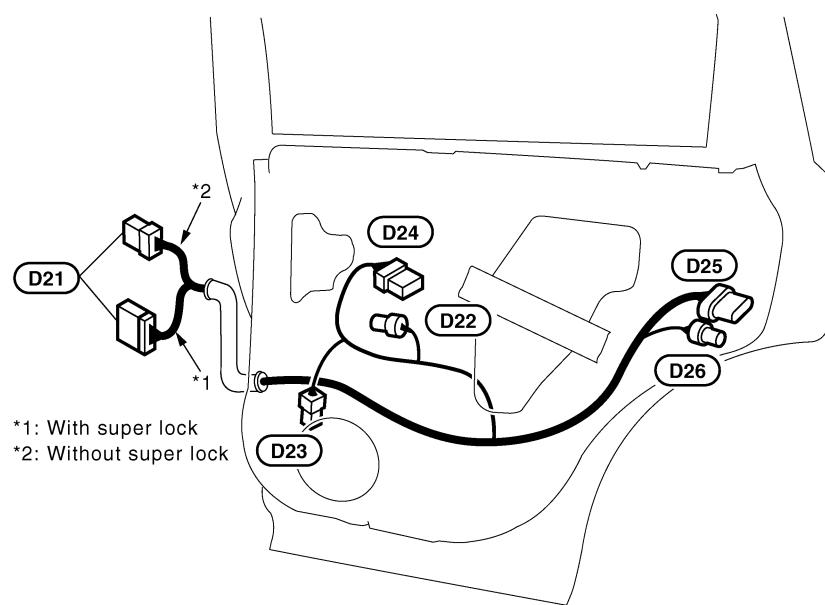


*1: With super lock
*2: Without super lock

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)

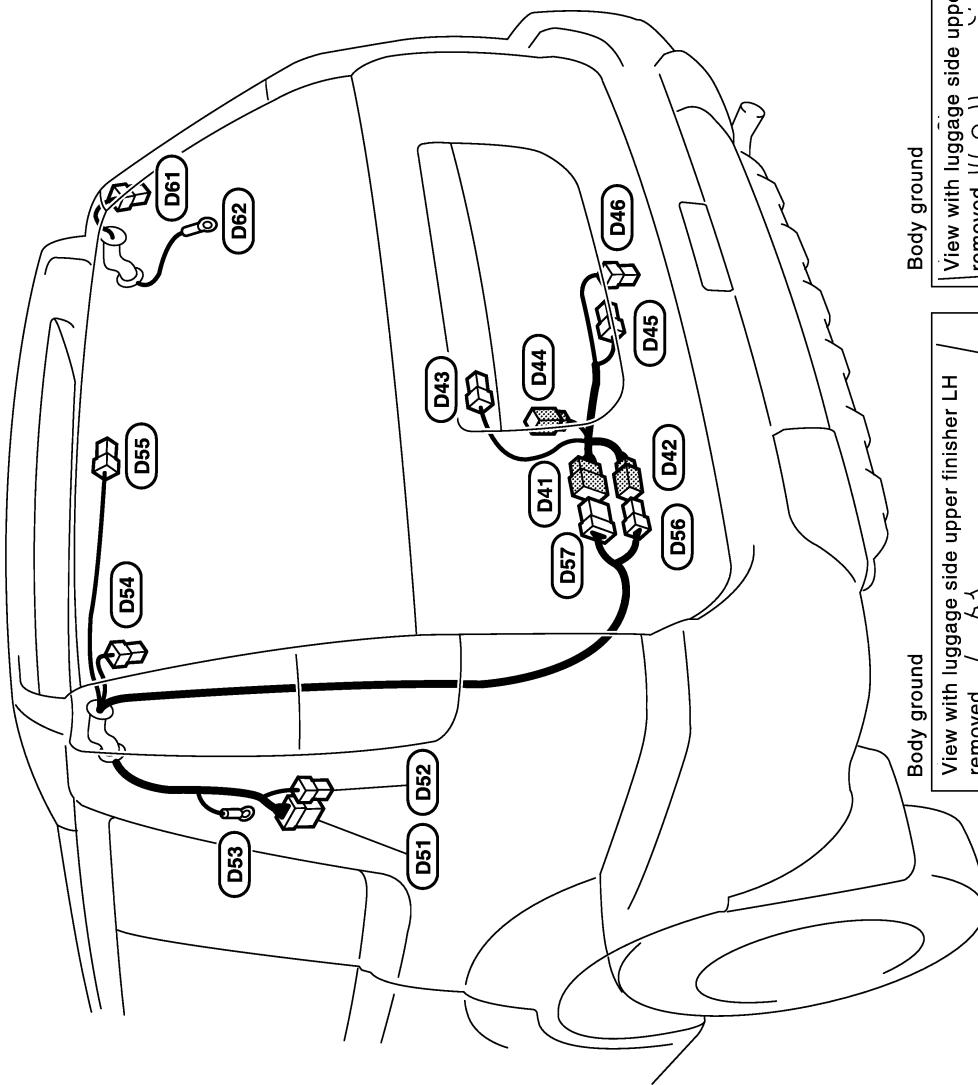


*1: With super lock
*2: Without super lock

TKIA0161E

HARNESS

BACK DOOR HARNESS



Back Door Harness

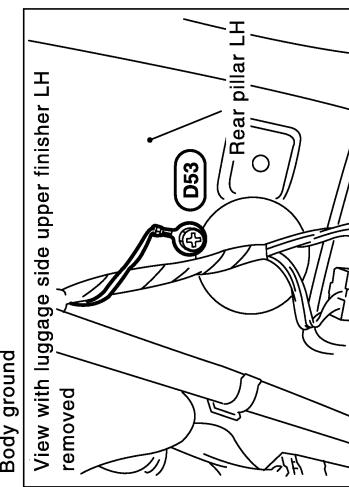
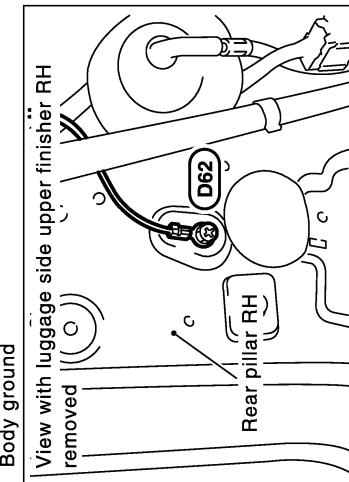
- | | | |
|------------|-----|---------------------------|
| D41 | W/6 | : To (B57) |
| D42 | B/2 | : To (B56) |
| D43 | W/4 | : Rear wiper motor |
| D44 | W/2 | : License lamp |
| D45 | W/3 | : Back door switch |
| D46 | W/4 | : Back door lock actuator |

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 (B42) |
| D57 | W/6 | : To (B41) |

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
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
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
CLOCK	DI	Clock
CKPS	EC	Crankshaft Position Sensor
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
EGVC/V	EC	EGR Volume Control Valve
EGRVLV	EC	EGR Volume Control Valve
ENGSS	AT	Engine Speed Signal
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

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HARNESS

Code	Section	Wiring Diagram Name
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	EC	Fuel Temperature Sensor
FTS	AT	A/T Fluid Temperature Sensor Circuit
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
H/SEAT	SE	Heated Seat
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
IATS	EC	Intake Air Temperature Sensor
IATSEN	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System
ILL	LT	Illumination
INJECT	EC	Injector
INJ/PW	EC	Fuel Injector Power Supply Circuit
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
NATS	BL	Nissan Anti-Theft System
NAVI	AV	Navigation System
NONDTC	AT	Non-Detective Items
OVRCVS	AT	Overrun Clutch Solenoid Valve

HARNESS

Code	Section	Wiring Diagram Name
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve
PHASE	EC	Camshaft Position Sensor (PHASE)
PHONE	AV	Telephone (Pre-wire)
PNP/SW	AT	Park/Neutral Position Switch
PNP/SW	EC	Park/Neutral Position Switch
PNPSW1	EC	Park/Neutral Position 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
R/FOG	LT	Rear Fog Lamp
ROOM/L	LT	Interior Room Lamp
RP/SEN	EC	Refrigerant Pressure Sensor
RRO2	EC	Rear Heated Oxygen Sensor
RRO2/H	EC	Rear Heated Oxygen Sensor Heater
S/LOCK	BL	Power Door Lock - Super Lock
S/SIG	EC	Start Signal
S/WARN	SB	Seat Belt Warning System
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
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

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HARNESS

Code	Section	Wiring Diagram Name
WIP/R	WW	Rear Wiper and Washer
WIPER	WW	Front Wiper and Washer

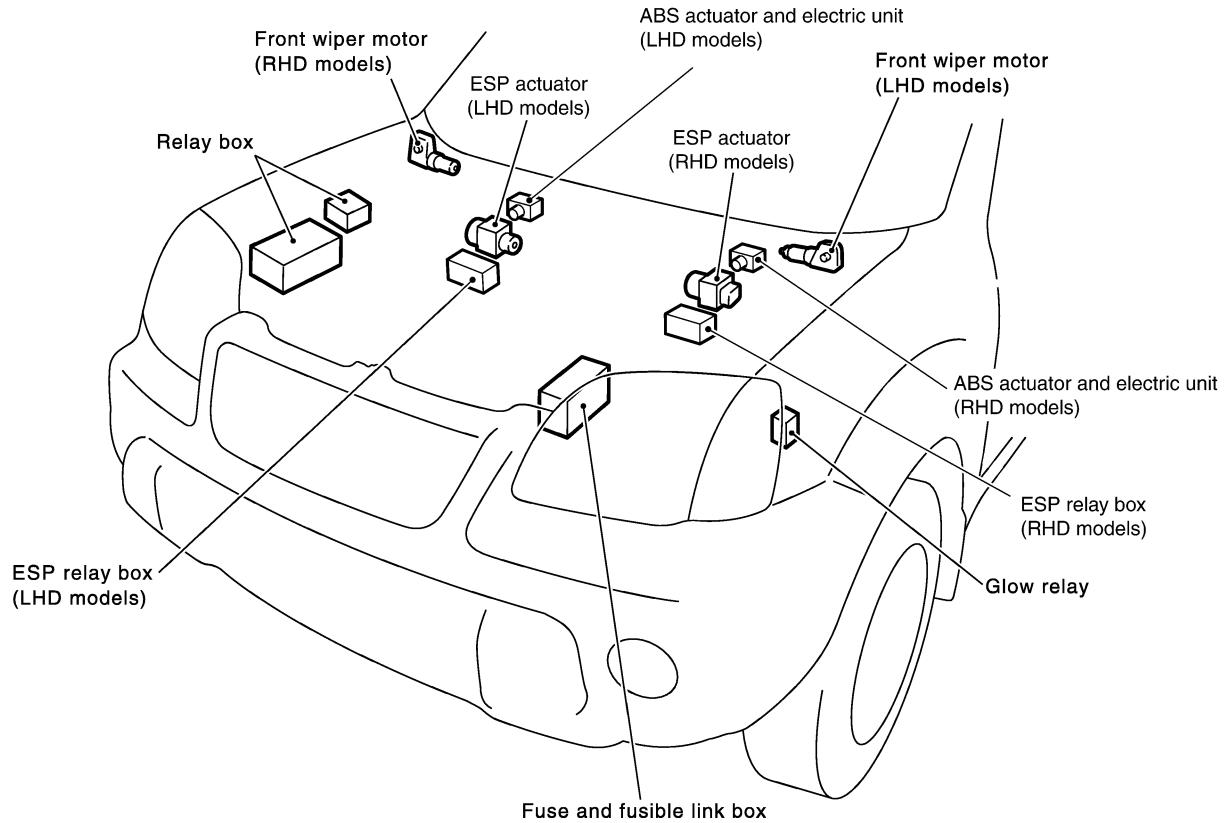
ELECTRICAL UNITS LOCATION

ELECTRICAL UNITS LOCATION

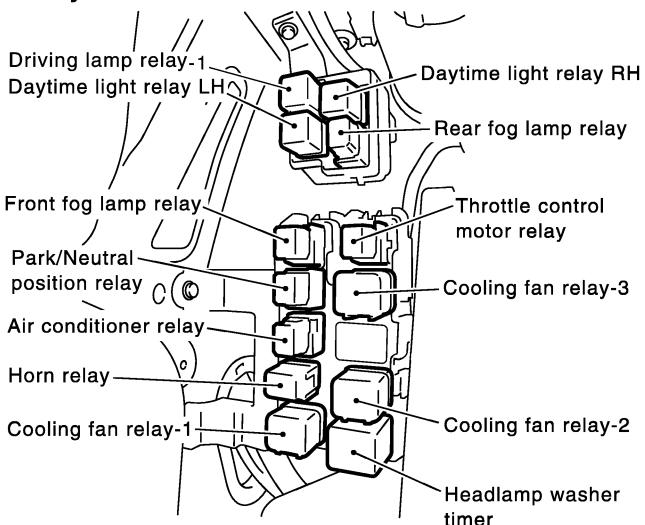
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Electrical Units Location ENGINE COMPARTMENT

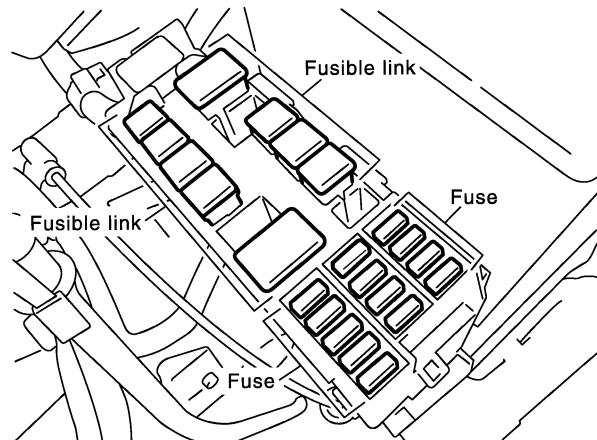
EKS0032K



Relay box



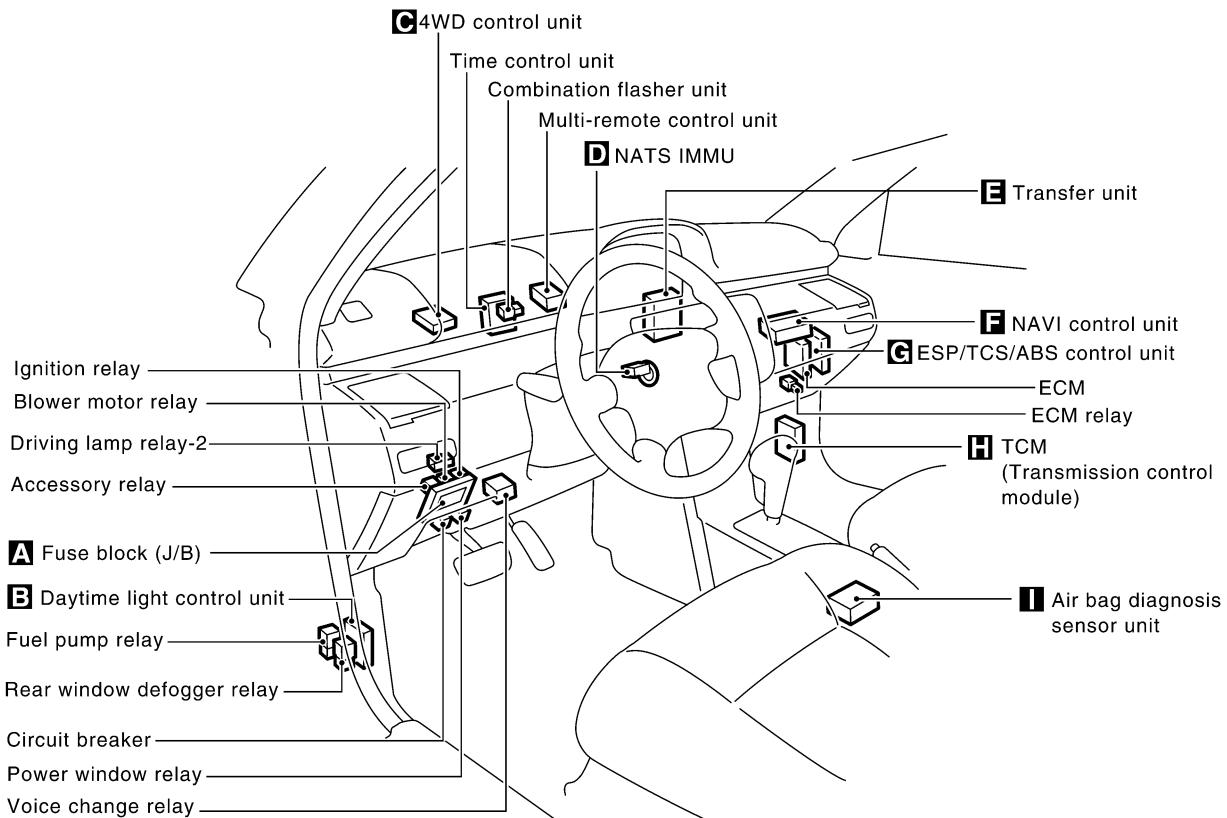
Fuse and fusible link box



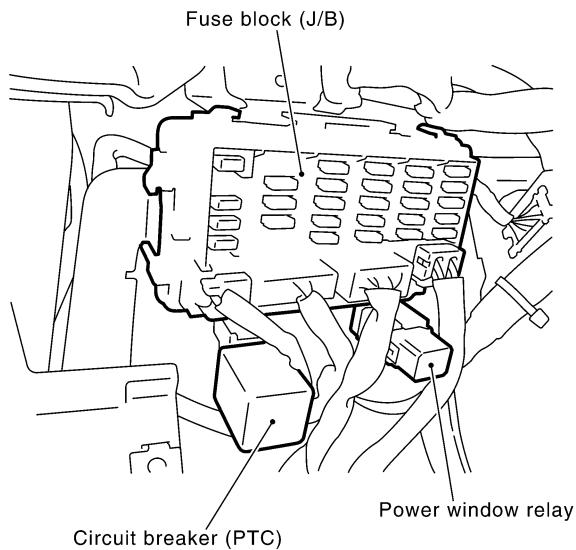
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ELECTRICAL UNITS LOCATION

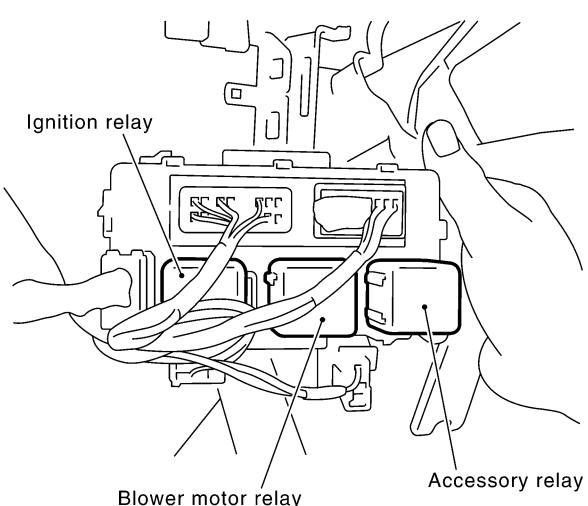
PASSENGER COMPARTMENT/LHD MODELS



A Instrument panel LH



Back of the fuse block (J/B)

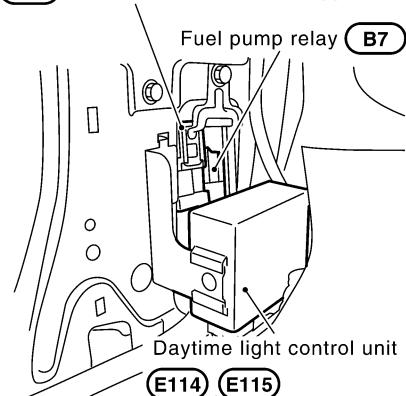


ELECTRICAL UNITS LOCATION

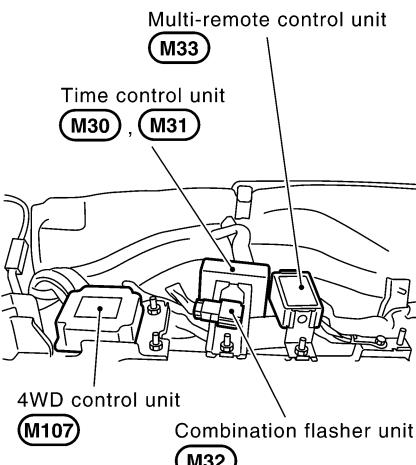
B Driver side view with dash side lower finisher removed

Rear window defogger relay

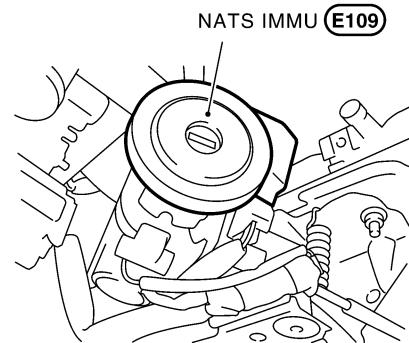
- (With door mirror defogger) **B6**
- (Without door mirror defogger) **B29**



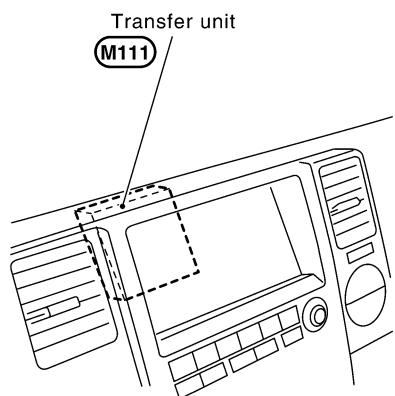
C Driver side view with upper instrument panel removed



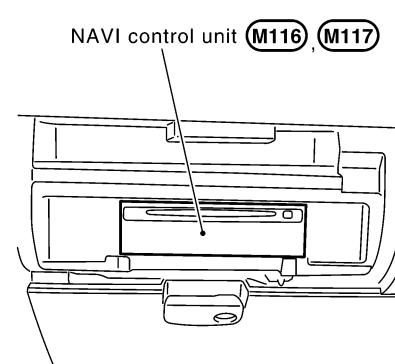
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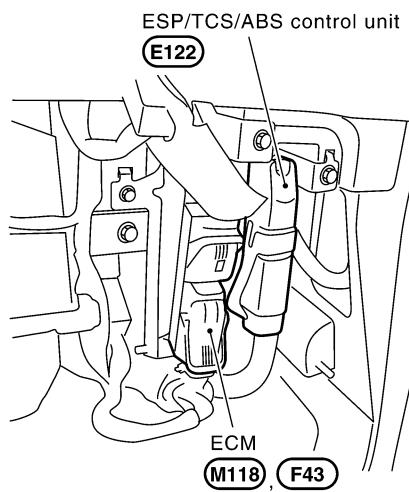
E View with instrument panel center



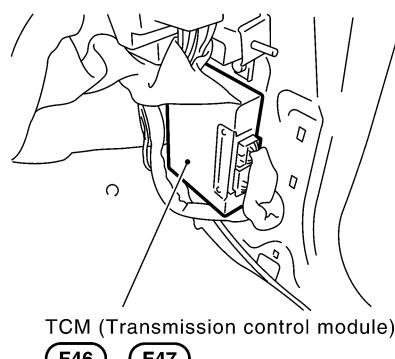
F Upper glove box



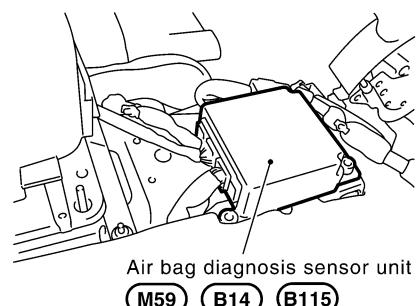
G Behind lower instrument panel on passenger side



H Passenger side view with dash side lower finisher removed



I Behind the console box assembly



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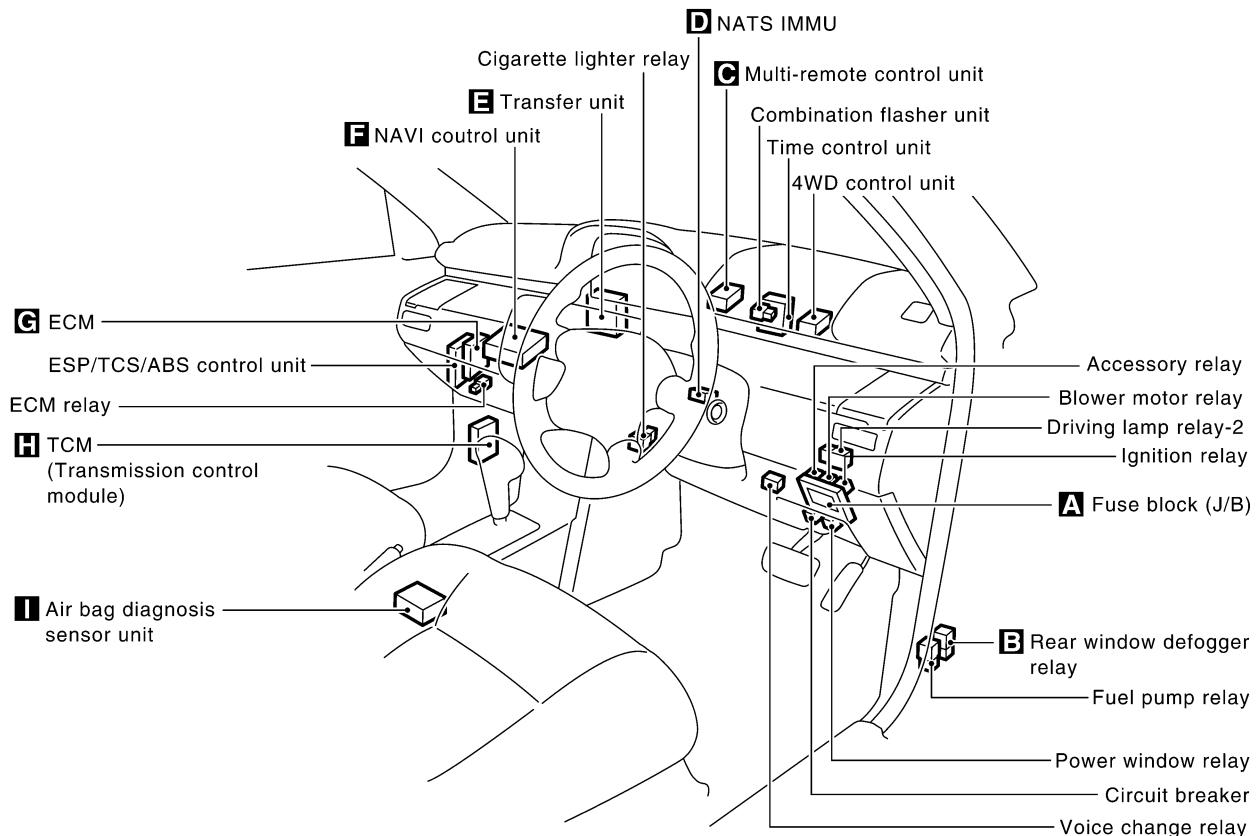
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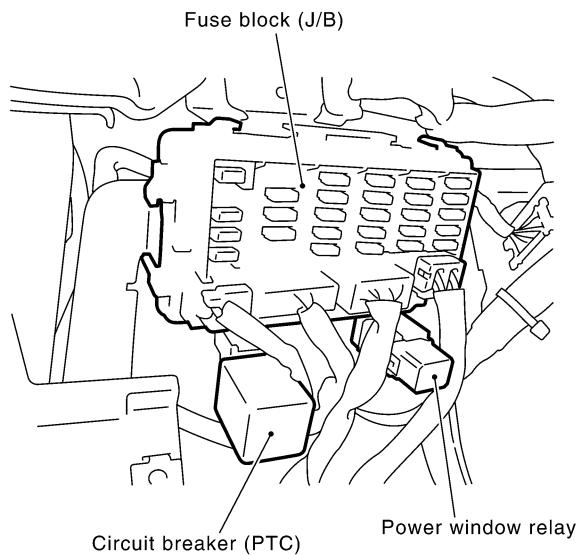
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ELECTRICAL UNITS LOCATION

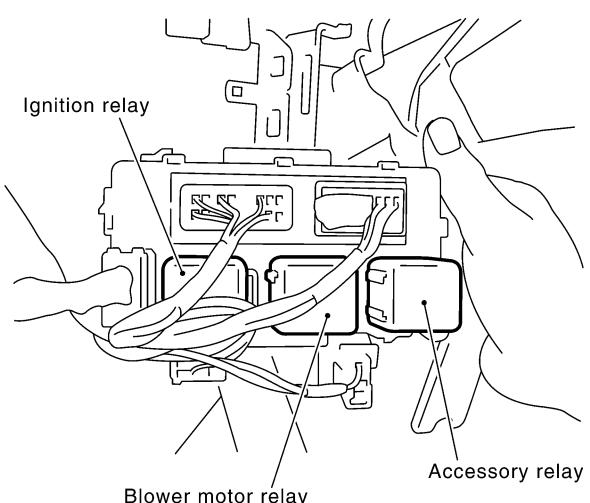
PASSENGER COMPARTMENT/RHD MODELS



A Instrument panel RH

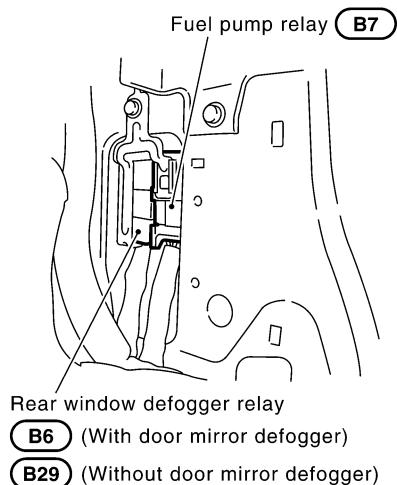


Back of the fuse block (J/B)

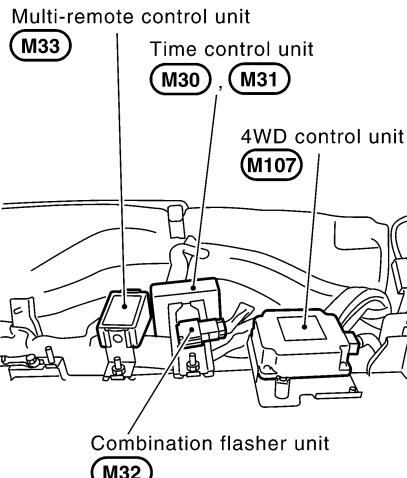


ELECTRICAL UNITS LOCATION

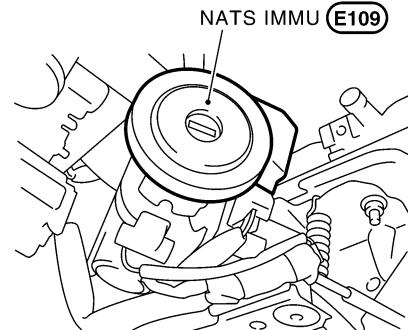
B Driver side view with dash side lower finisher removed



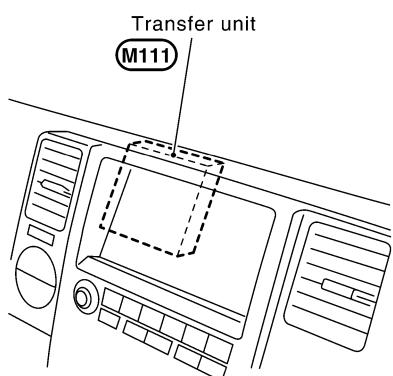
C Driver side view with upper instrument panel removed



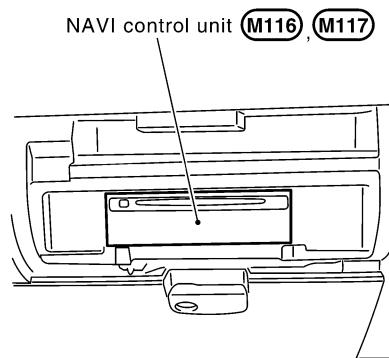
D



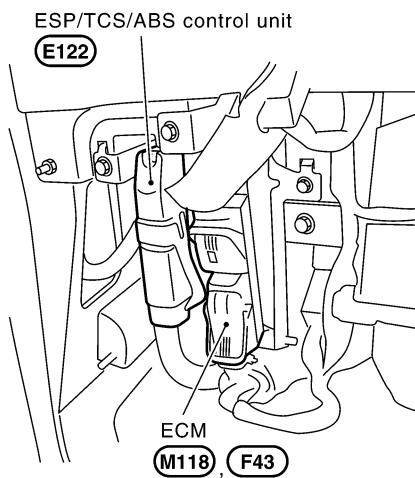
E View with instrument panel center



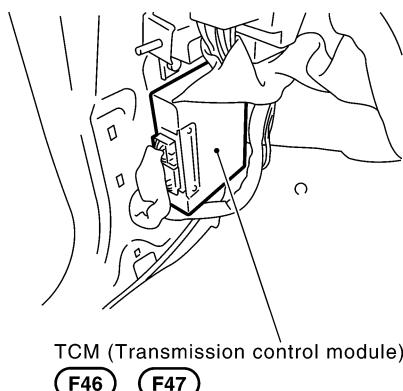
F Upper glove box



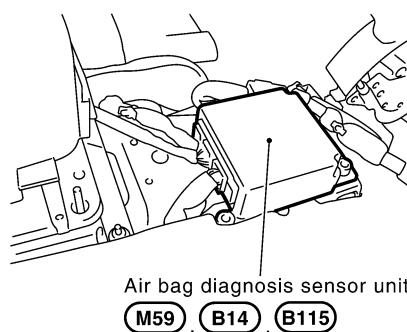
G Behind lower instrument panel on passenger side



H Passenger side view with dash side lower finisher removed



I Behind the console box assembly



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HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:00011

Description

EKS0032B

HARNESS CONNECTOR (TAB-LOCKING TYPE)

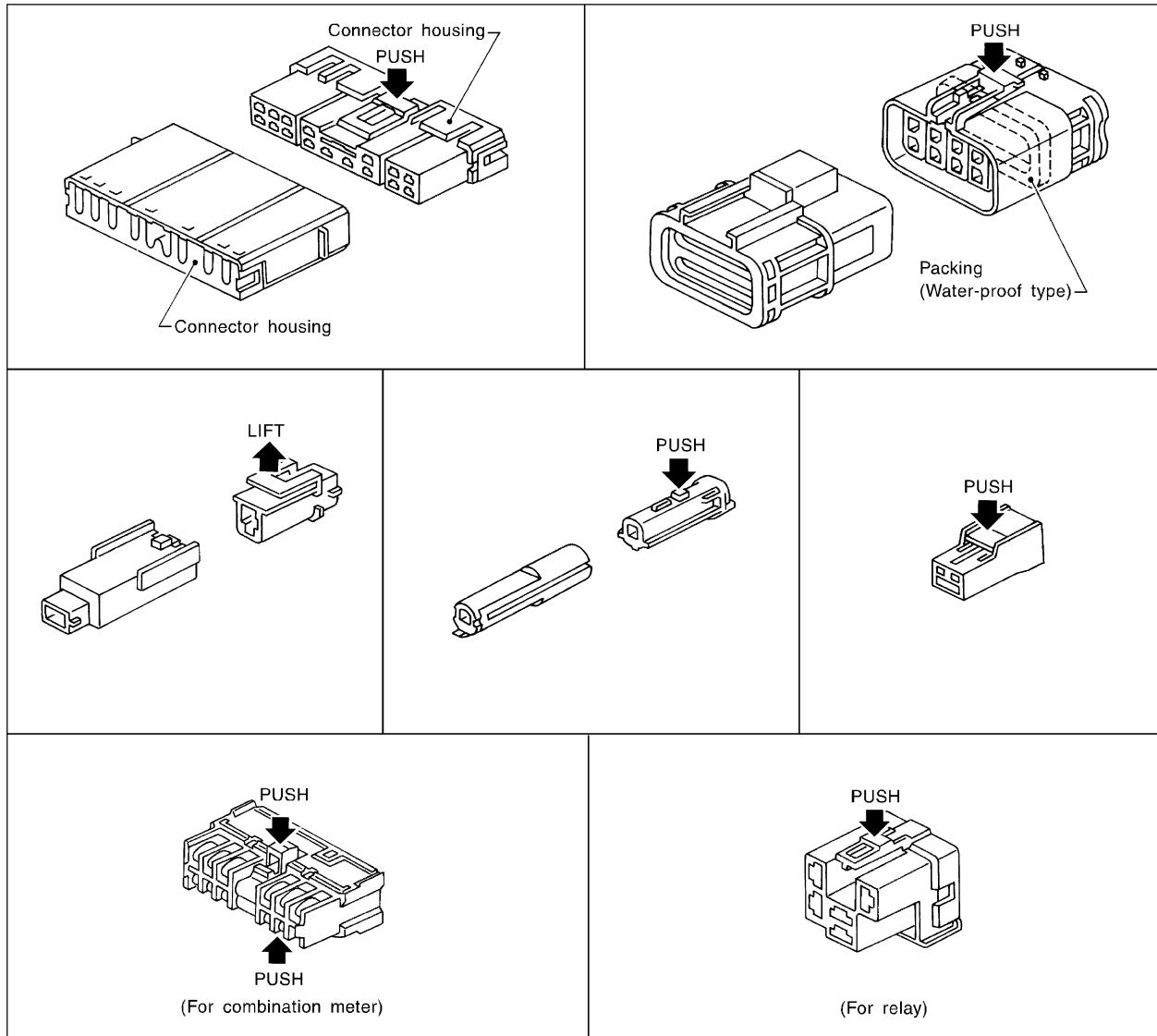
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

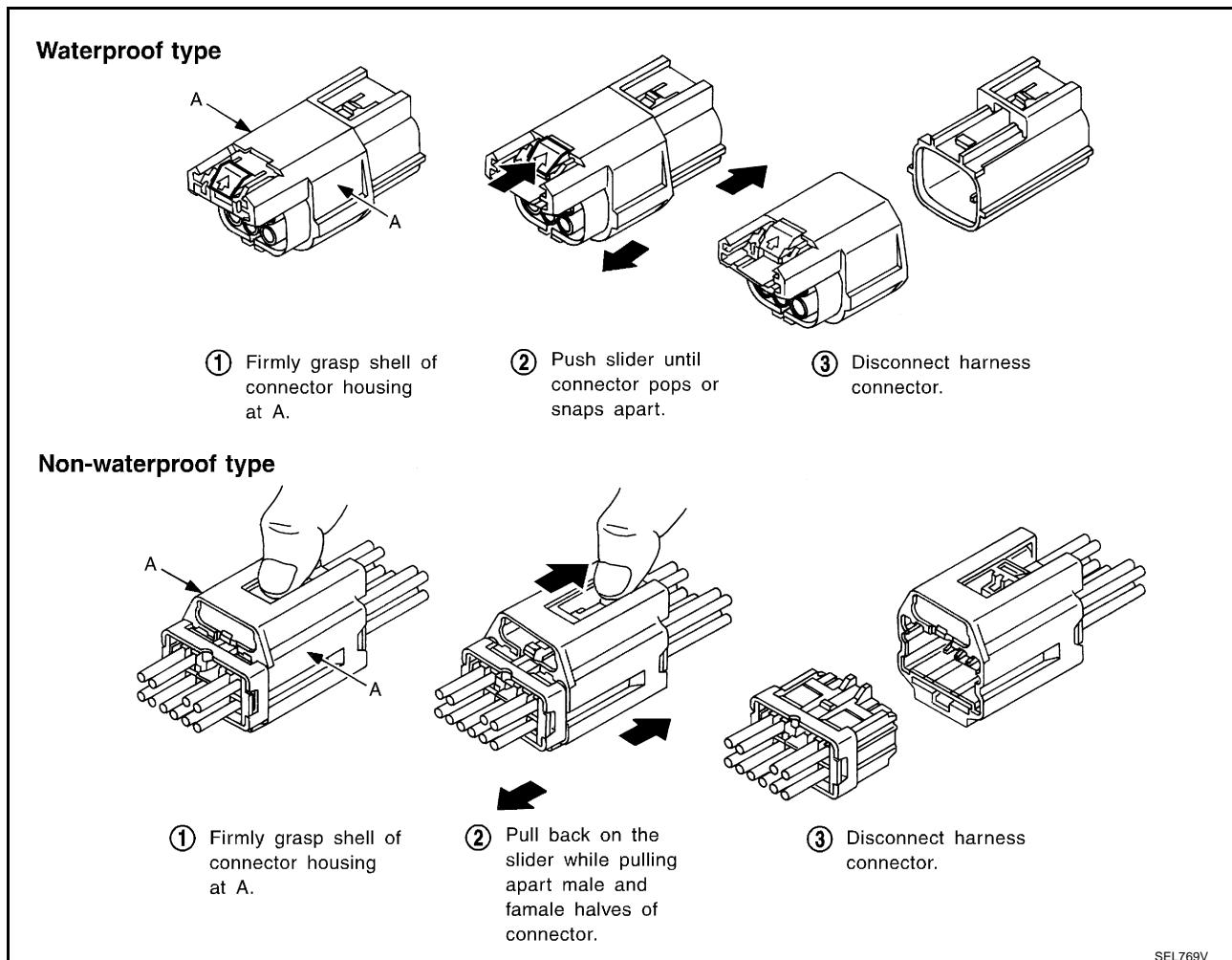
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



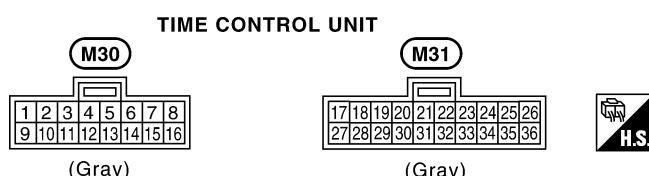
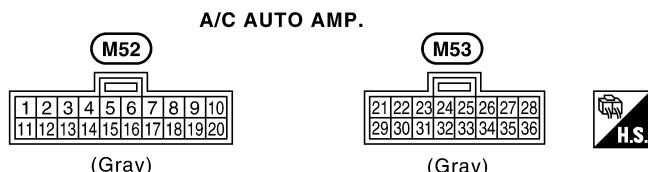
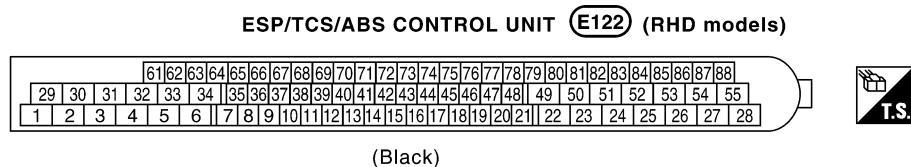
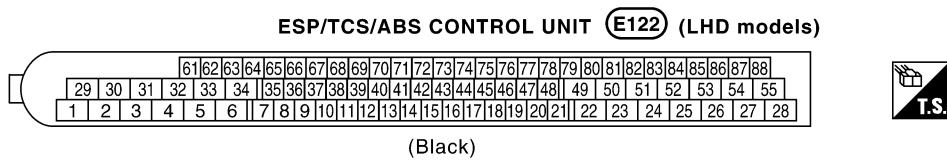
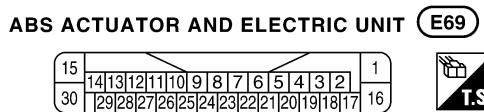
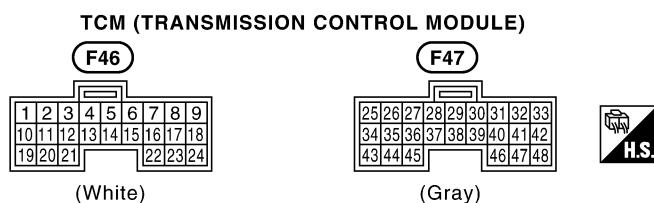
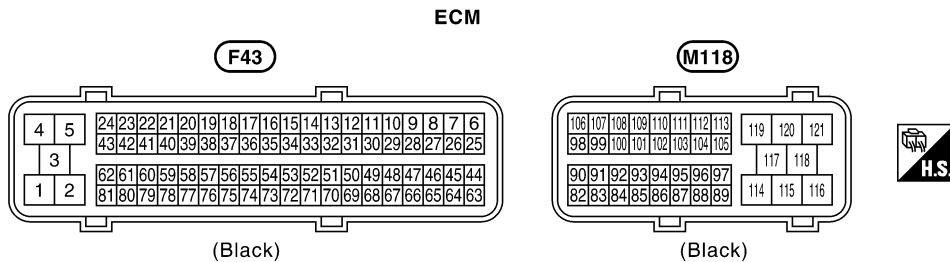
ELECTRICAL UNITS

ELECTRICAL UNITS

PFP:00011

Terminal Arrangement

EKS0032D



CKIA0382E

STANDARDIZED RELAY

STANDARDIZED RELAY

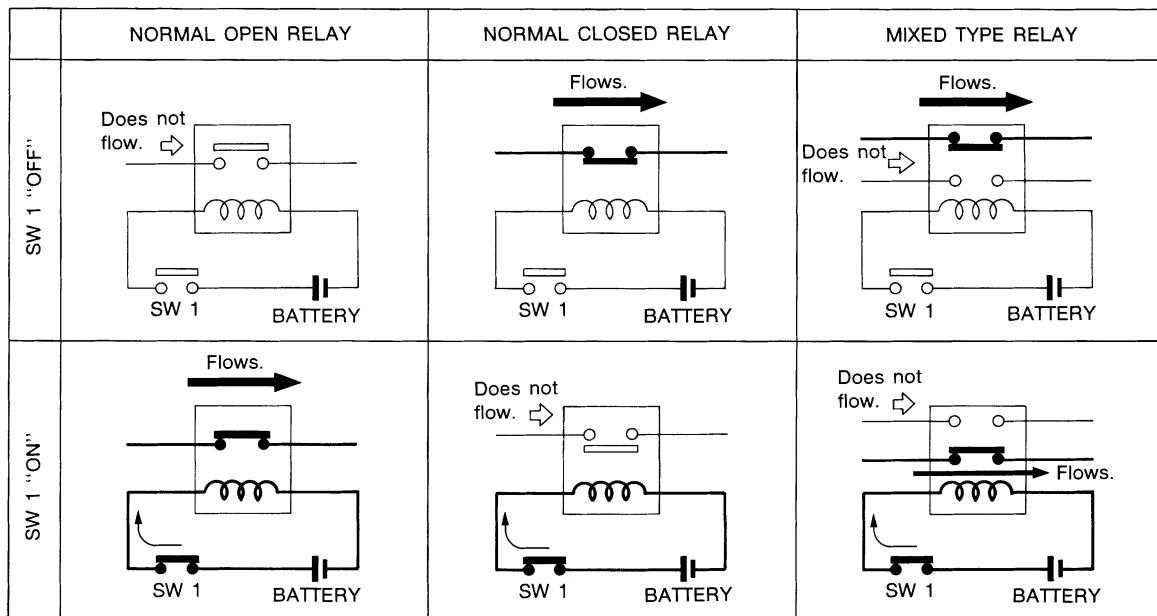
PFP:00011

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

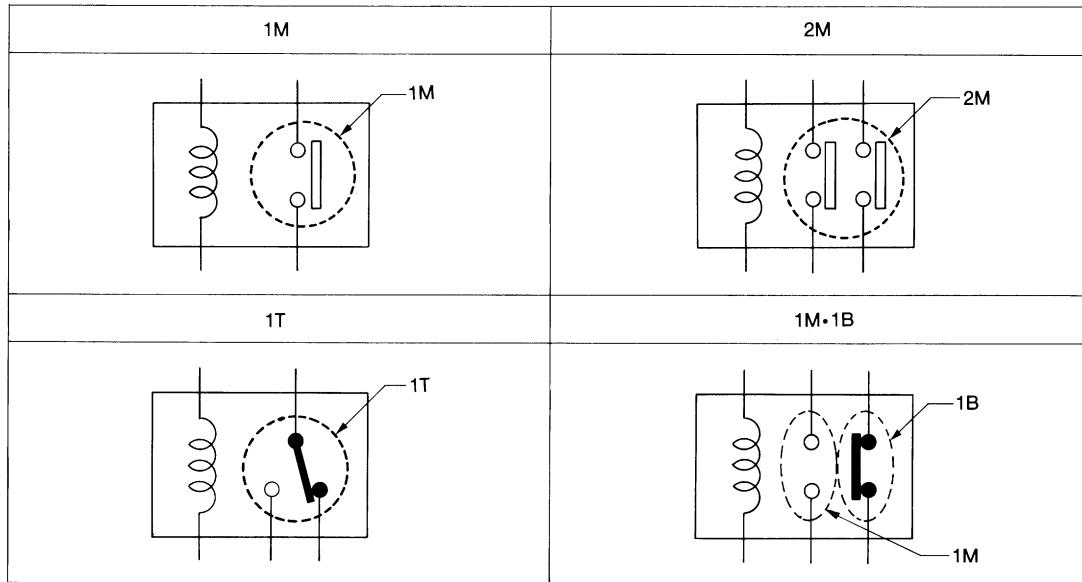
TYPE OF STANDARDIZED RELAYS

1M 1 Make

2M 2 Make

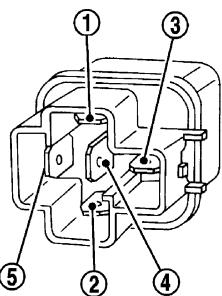
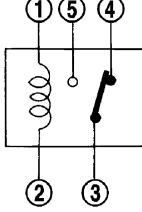
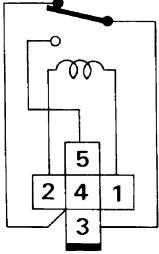
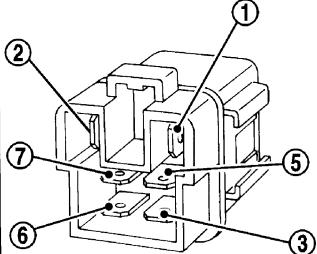
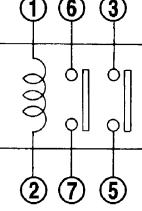
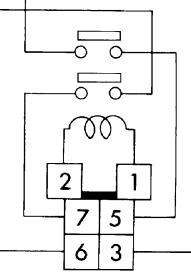
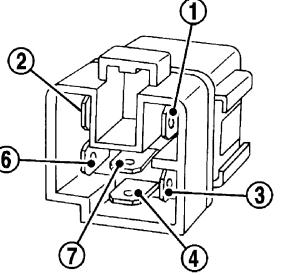
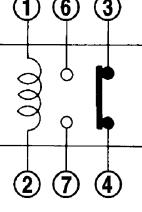
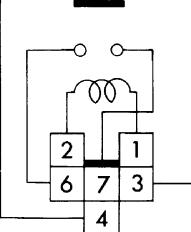
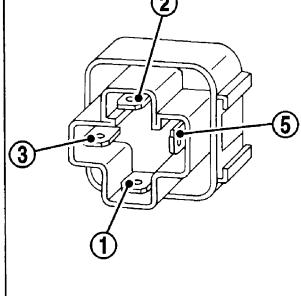
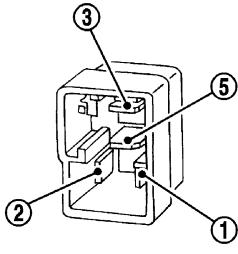
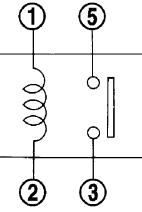
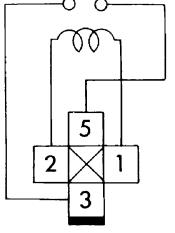
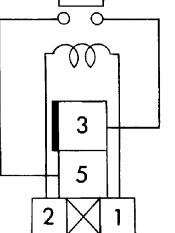
1T 1 Transfer

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)

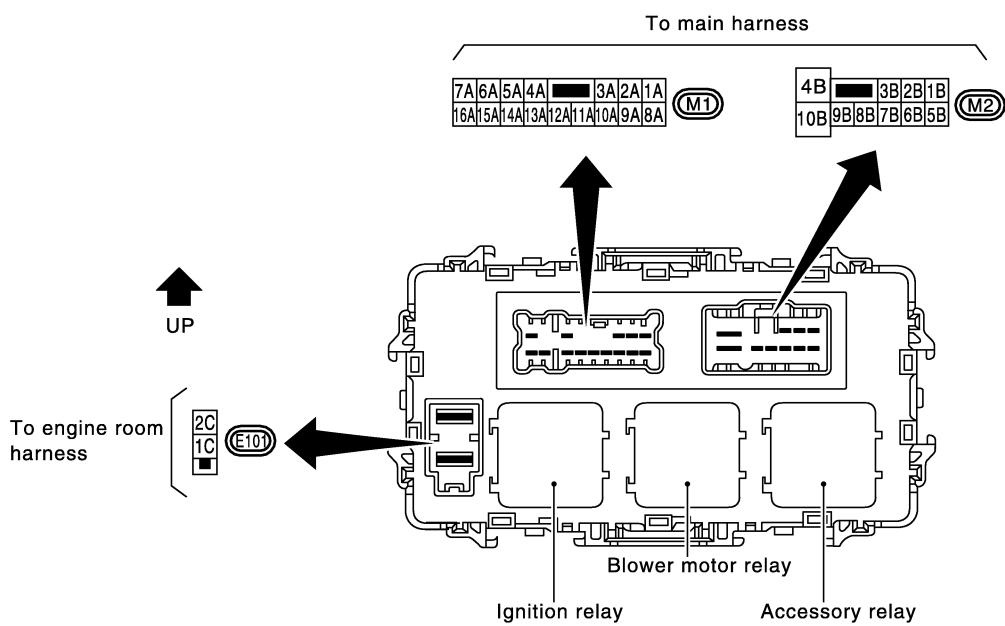
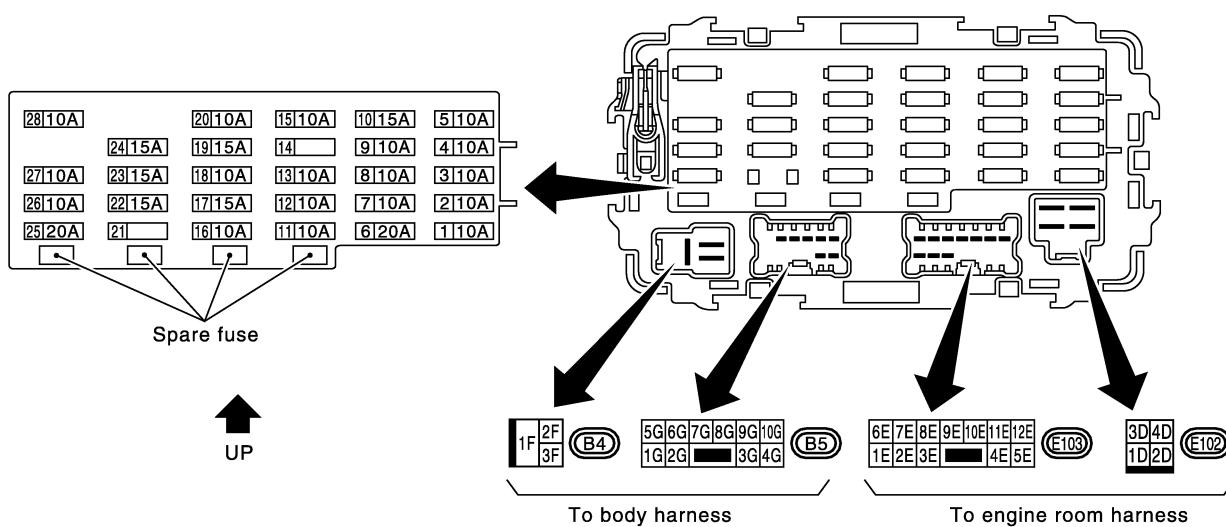
FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

PFP:24350

EKS0032F

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



CKIA0383E

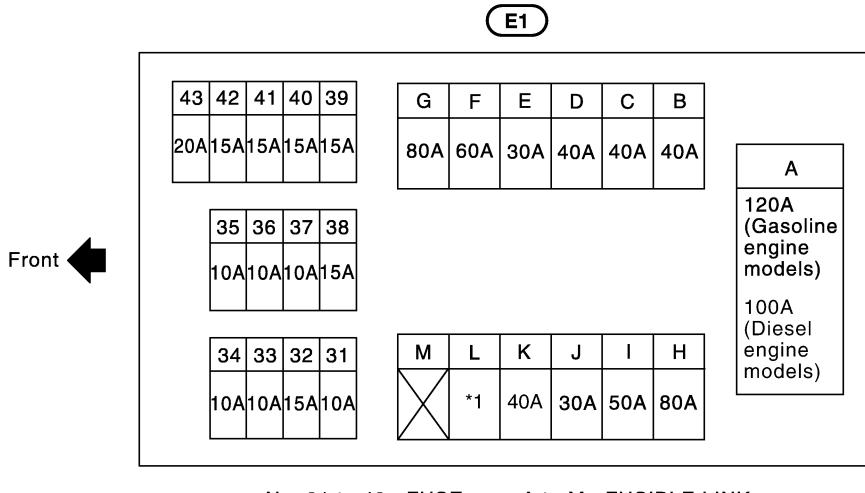
FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX

PFP:24381

Terminal Arrangement

EKS0032G



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

*1 30A : With ESP
40A : Without ESP

CKIA0384E