

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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POWER SUPPLY ROUTING

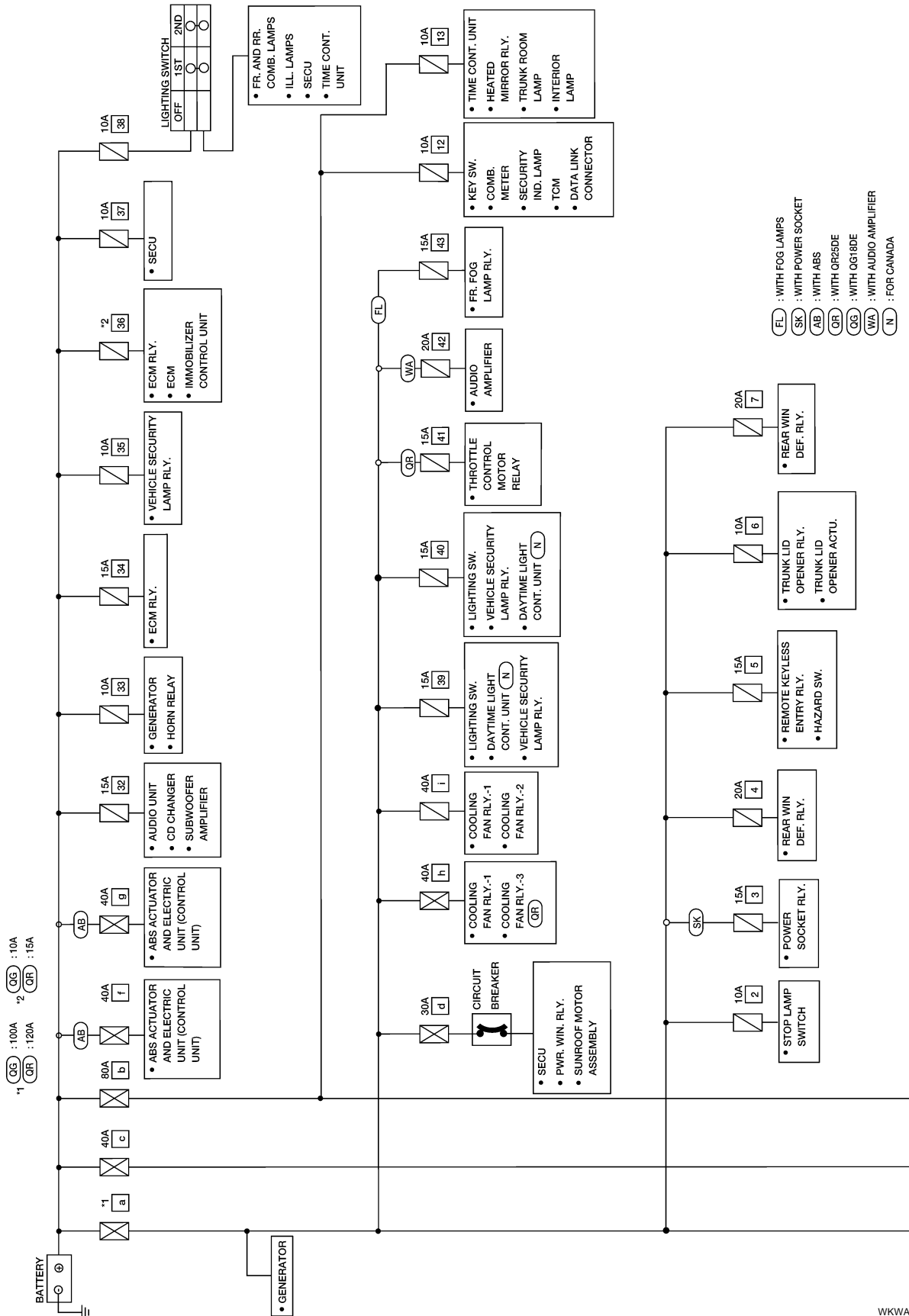
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POWER SUPPLY ROUTING

Schematic

For detailed ground distribution information, refer to [PG-12, "Ground Distribution"](#).

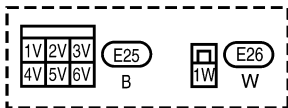
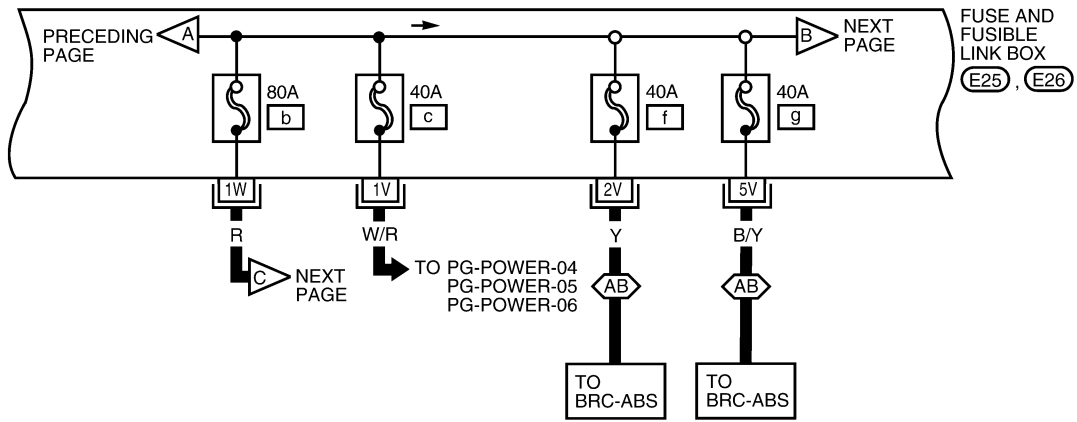


POWER SUPPLY ROUTING

PG-POWER-02

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⬡AB⬢ : WITH ABS

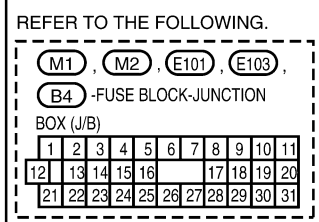
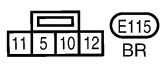
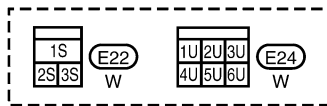
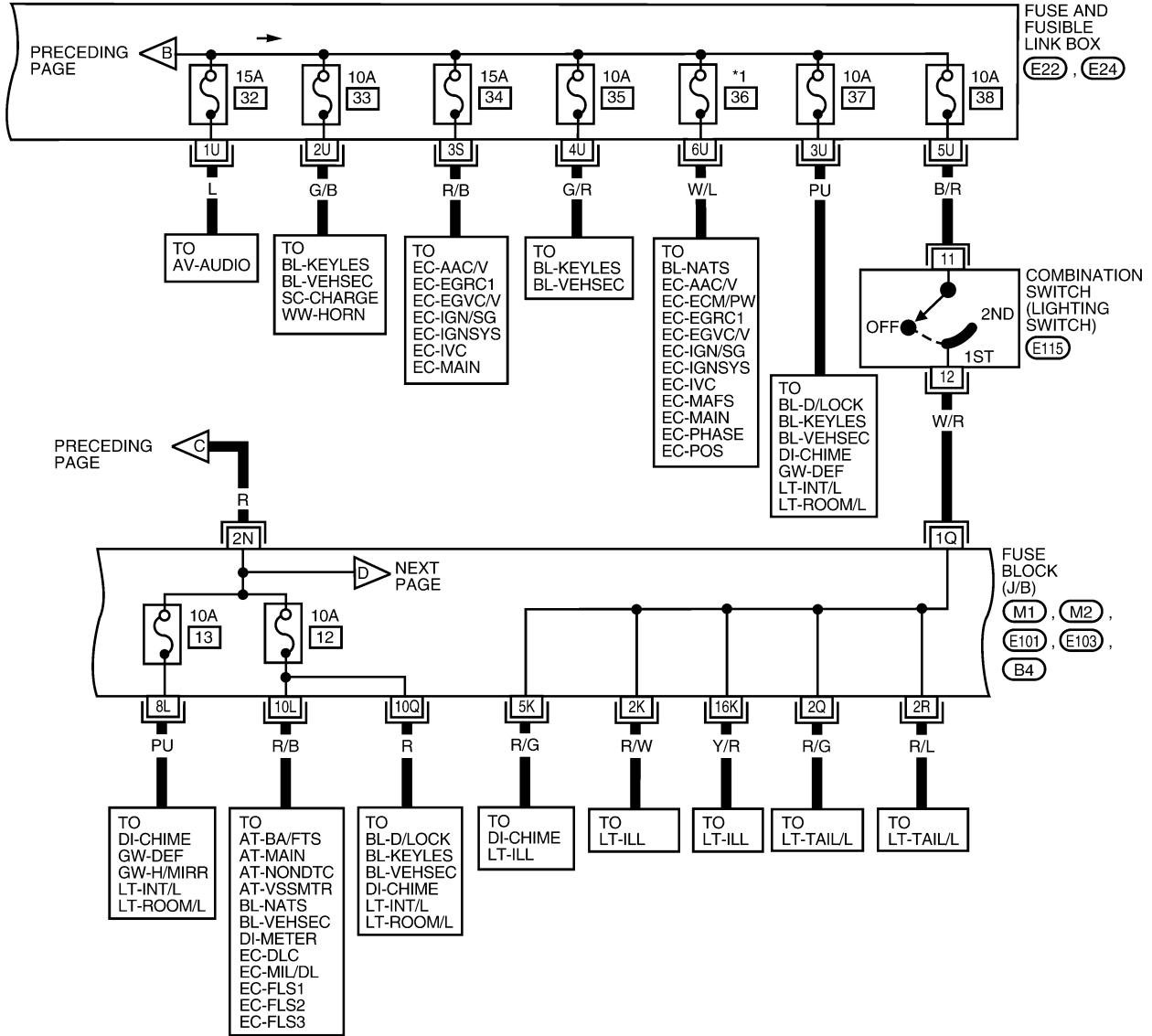


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POWER SUPPLY ROUTING

PG-POWER-03

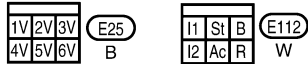
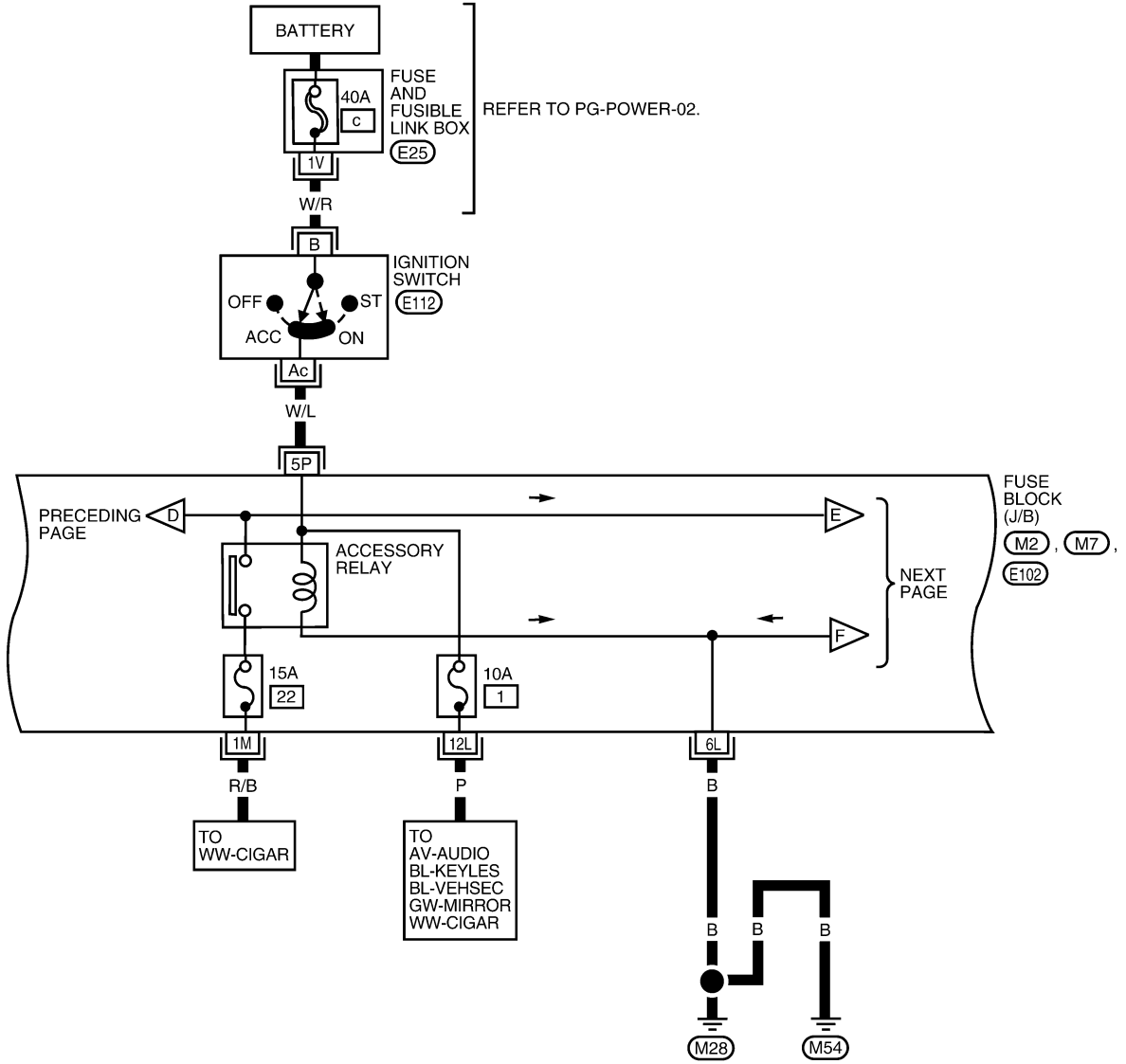
QG : WITH QG18E *1 QG : 10A
QR : WITH QR25DE QR : 15A



POWER SUPPLY ROUTING

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

PG-POWER-04



REFER TO THE FOLLOWING.

(M2), (M7), (E102)

-FUSE BLOCK-JUNCTION BOX (J/B)

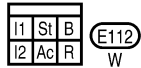
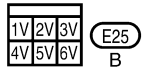
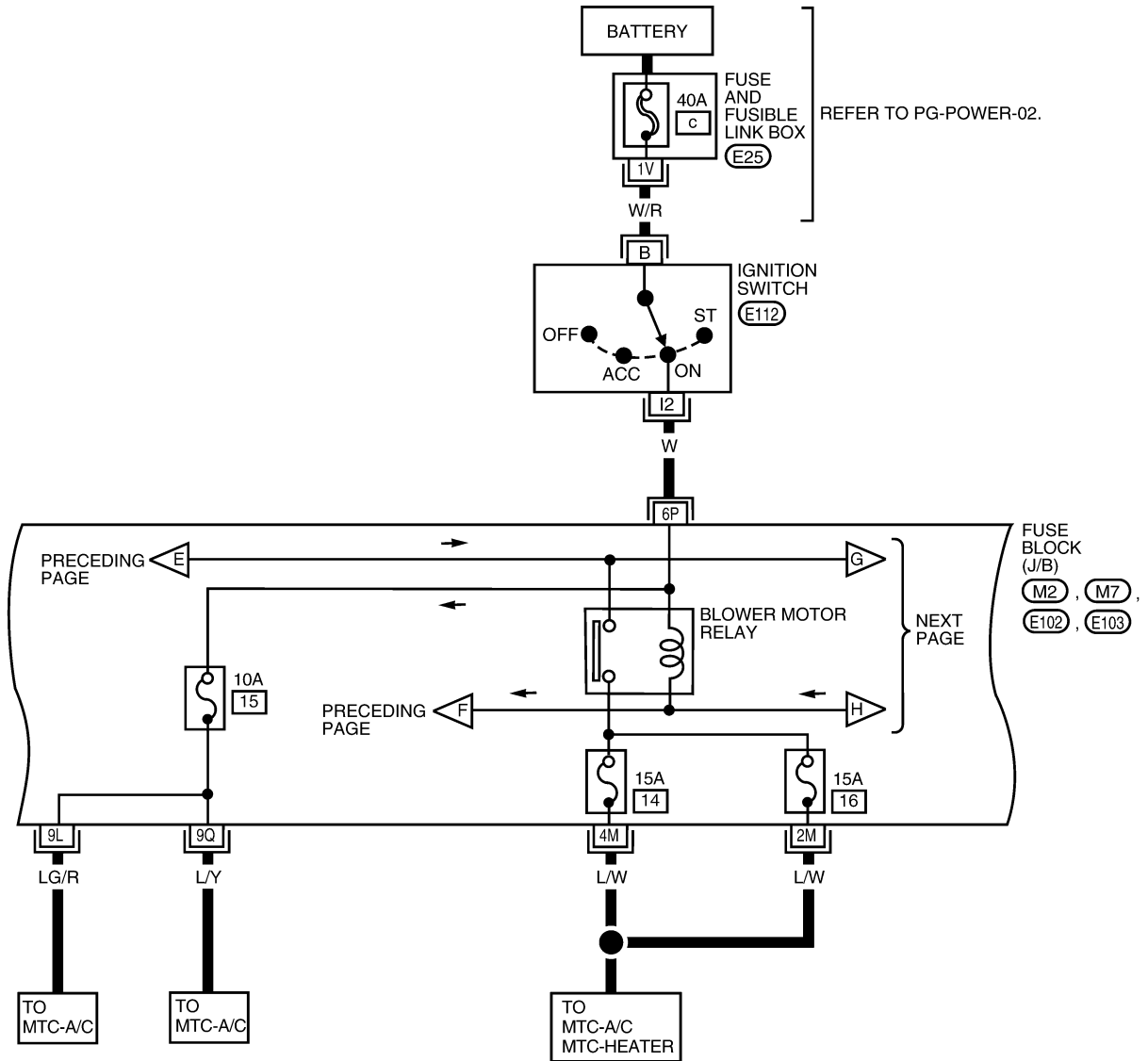
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↑ UP

POWER SUPPLY ROUTING

IGNITION POWER SUPPLY — IGNITION SW. IN “ON”

PG-POWER-05



REFER TO THE FOLLOWING.

(M2), (M7), (E102), (E103)
- FUSE BLOCK-JUNCTION BOX (J/B)

1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16			17	18	19	20
21	22	23	24	25	26	27	28	29	30	31

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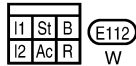
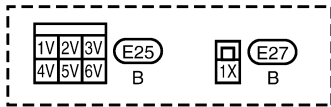
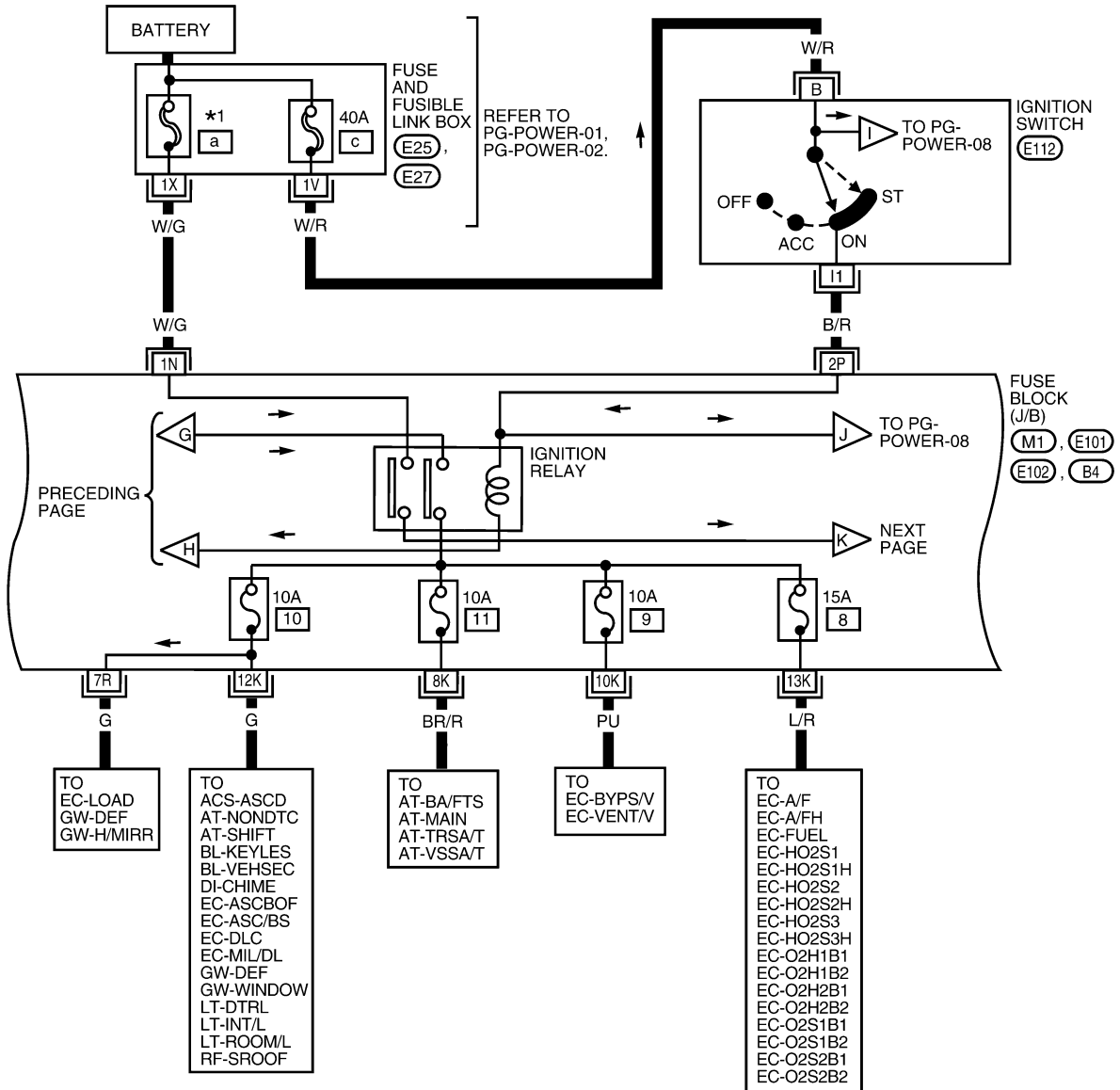
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POWER SUPPLY ROUTING

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

PG-POWER-06

QG : WITH QG18DE *1 QG : 100A
QR : WITH QR25DE QR : 120A



REFER TO THE FOLLOWING.

M1, E101, E102, B4


- FUSE BLOCK -
 JUNCTION BOX (J/B)

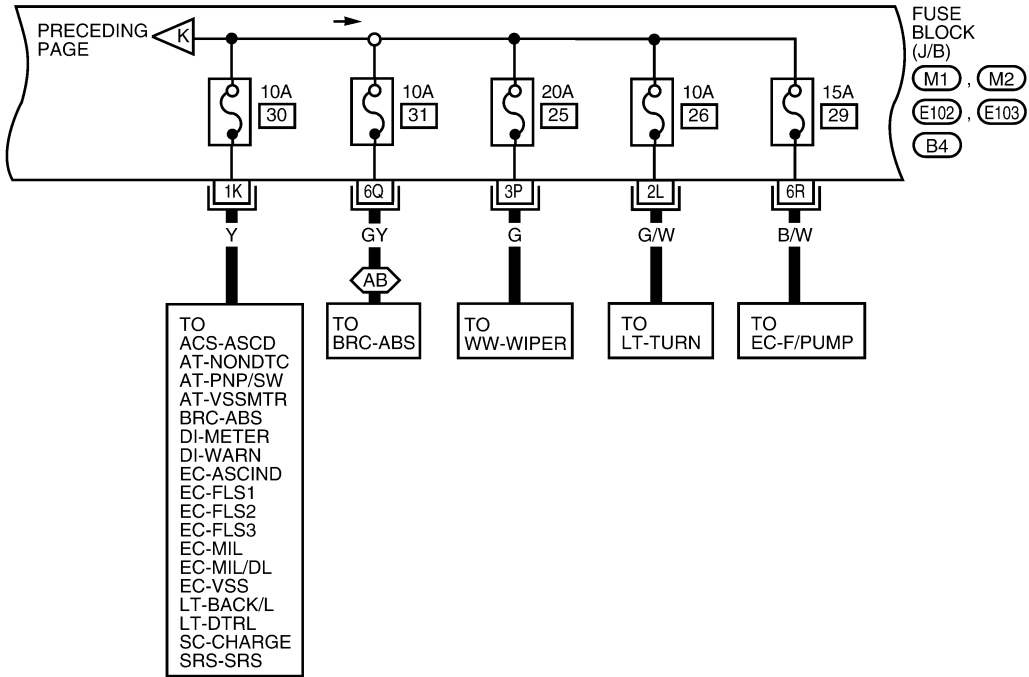
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12	13	14	15	16			17	18	19	20
21	22	23	24	25	26	27	28	29	30	31

↑ UP

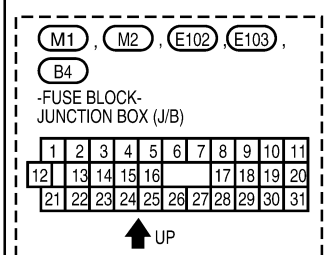
POWER SUPPLY ROUTING

PG-POWER-07

 : With ABS



REFER TO THE FOLLOWING.

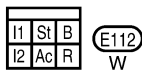
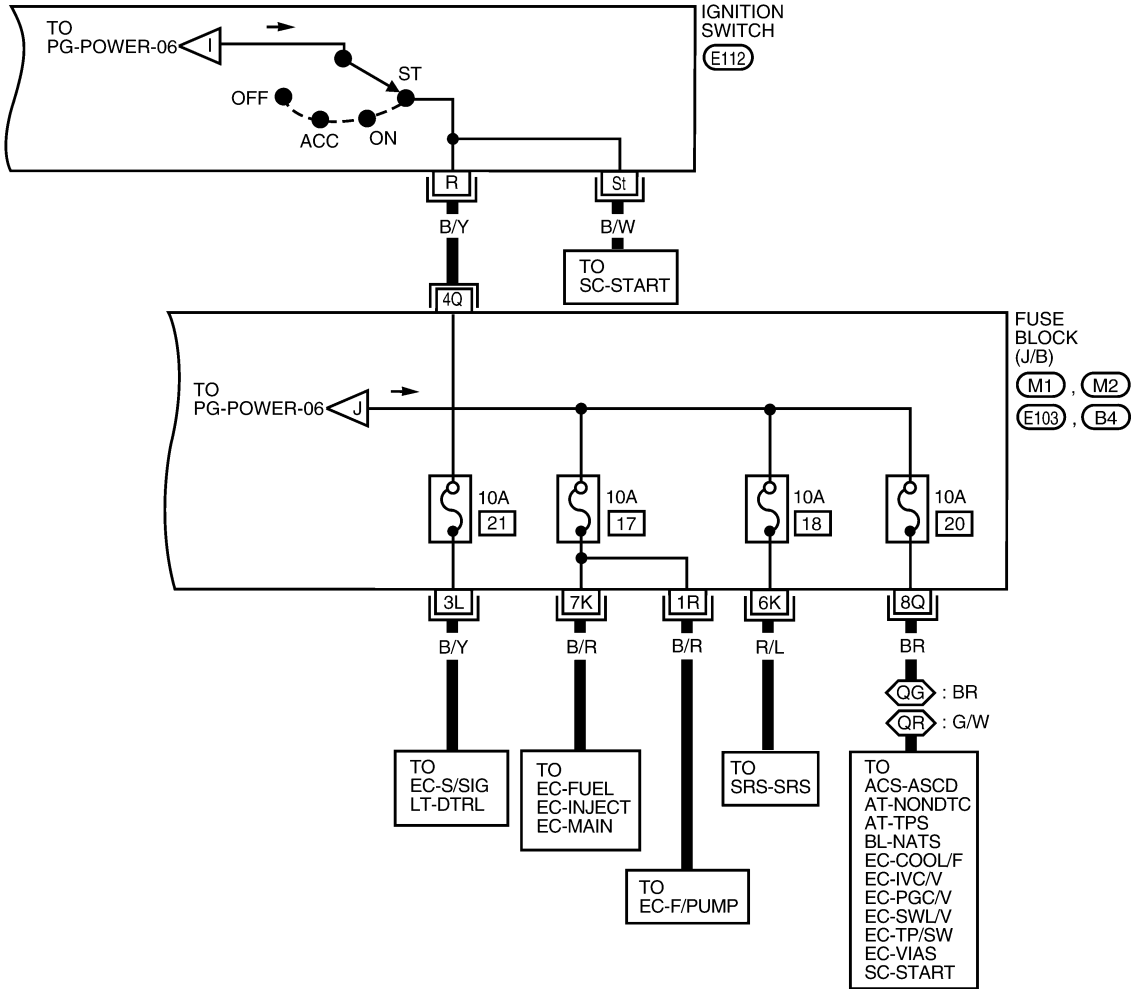


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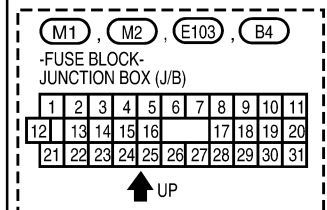
POWER SUPPLY ROUTING

PG-POWER-08

QG : WITH QG18DE
QR : WITH QR25DE



REFER TO THE FOLLOWING.



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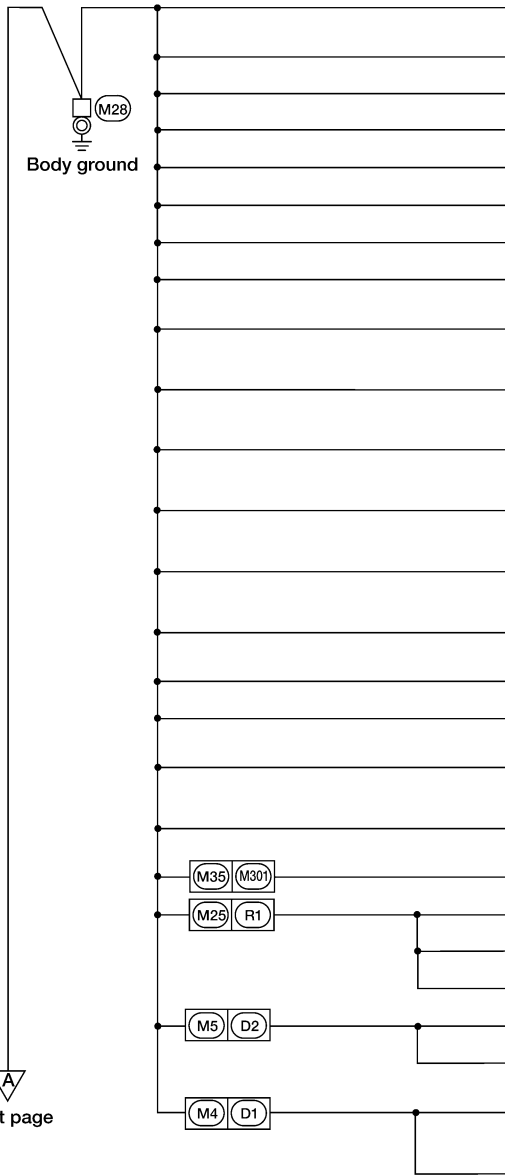
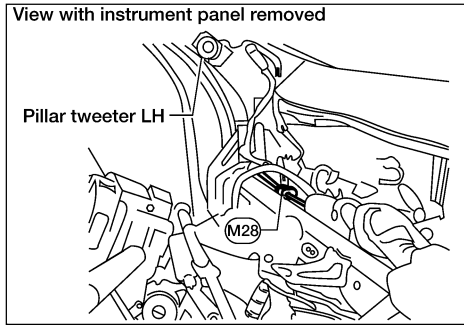
GROUND

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GROUND

Ground Distribution MAIN HARNESS

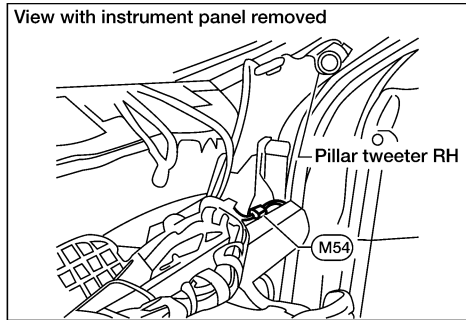


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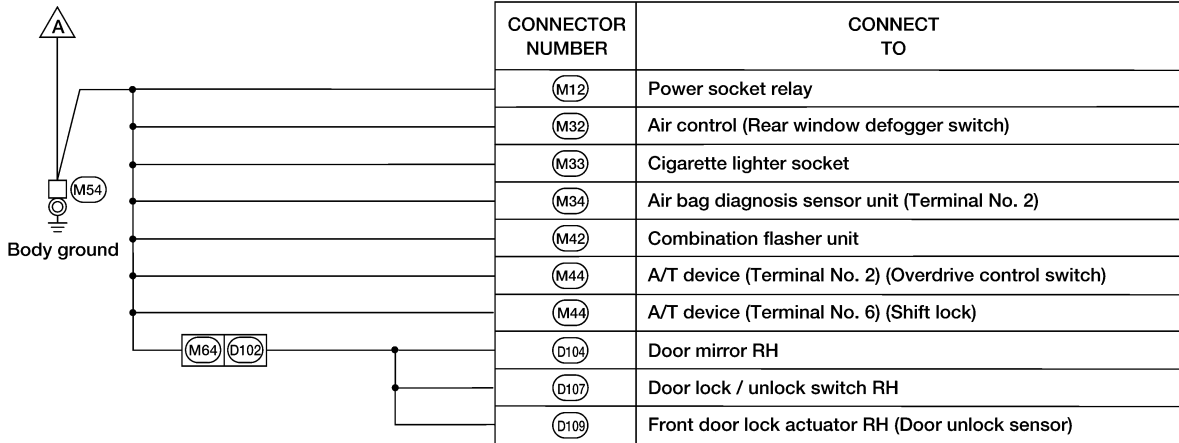
CONNECTOR NUMBER	CONNECT TO
(M2)	Fuse block (J/B) (Blower motor relay, ignition relay, accessory relay)
(M3)	Heated mirror relay
(M8)	Data link connector (Terminal No. 4)
(M9)	Power window relay
(M10)	Trunk lid opener relay
(M21)	Trunk lid opener switch
(M22)	Illumination control switch
(M23)	Door mirror remote control switch
(M29)	Combination meter (Terminal No. 3) (High beam indicator) (With tachometer)
(M29)	Combination meter (Terminal No. 12) (Turn signal indicator lamps) (With tachometer)
(M29)	Combination meter (Terminal No. 14) (High beam indicator) (Without tachometer)
(M30)	Combination meter (Terminal No. 27) (Speedometer) (Without tachometer)
(M30)	Combination meter (Terminal No. 39) (Turn signal indicator lamps and ABS warning lamp) (Without tachometer)
(M30)	Combination meter (Terminal No. 48) (Speedometer) (With tachometer)
(M31)	Fan control switch
(M37)	ASCD control unit (QG18DE)
(M38)	Smart entrance control unit (with power door locks) (Terminal No. 16)
(M40)	Time control unit (Without power door locks) (Terminal No. 8)
(M302)	Power socket
(R2)	Vanity lamp LH
(R3)	Map lamp
(R7)	Vanity lamp RH
(D4)	Door mirror LH
(D8)	Front door key cylinder switch LH
(D6)	Main power window and door lock / unlock switch
(D7)	Front door lock actuator (door unlock sensor) LH

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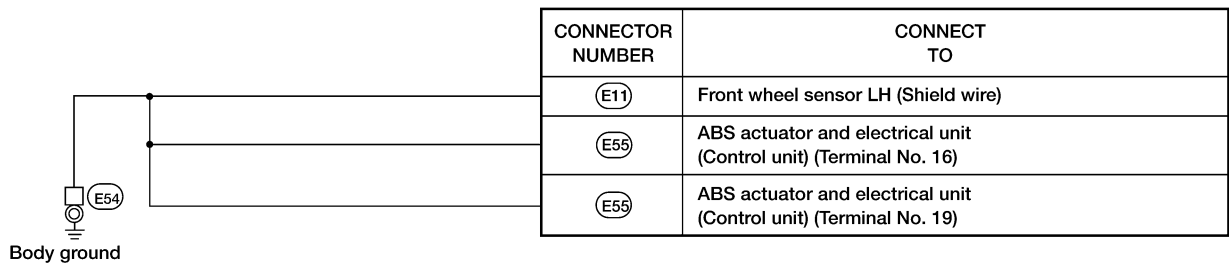
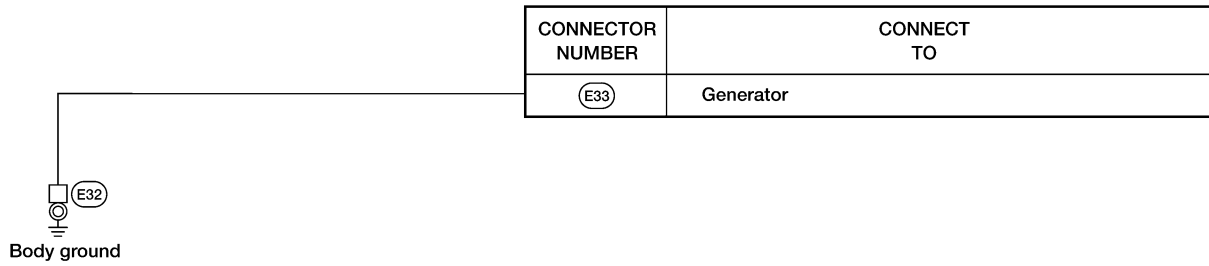
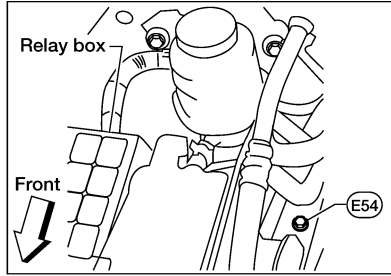
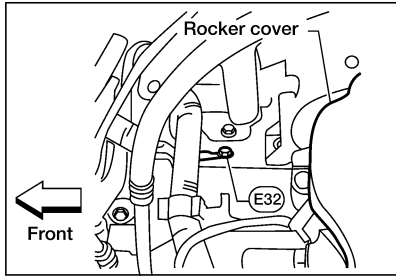
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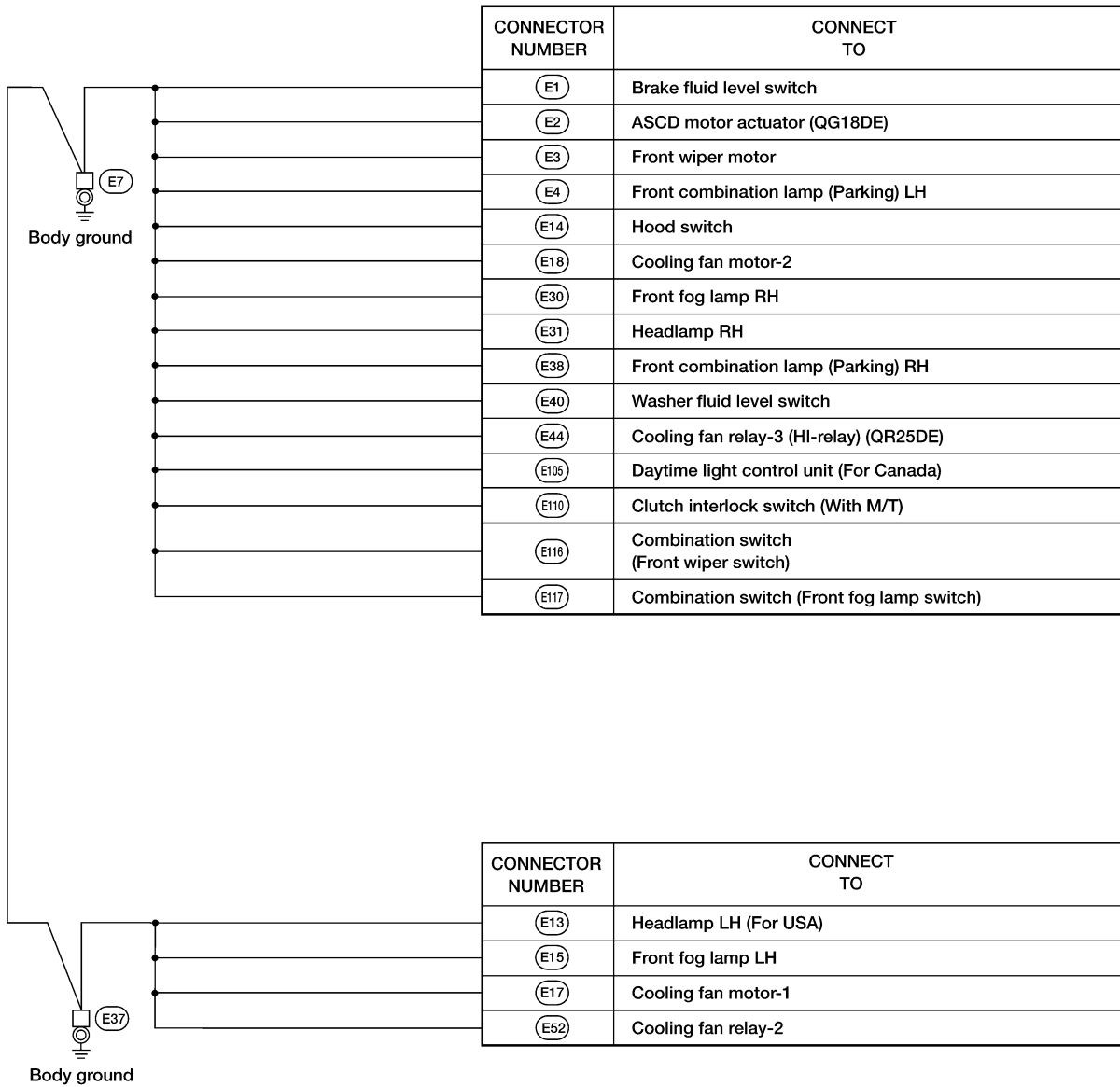
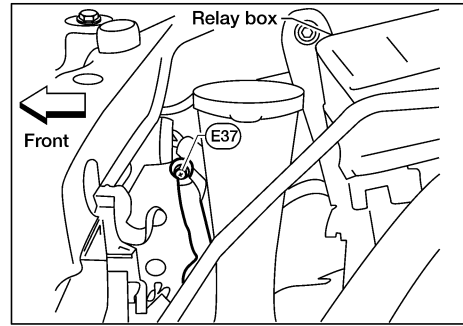
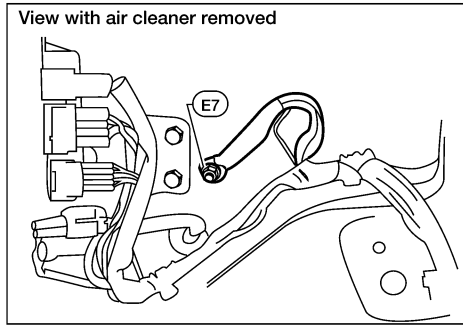
PG

GROUND

ENGINE ROOM HARNESS



GROUND

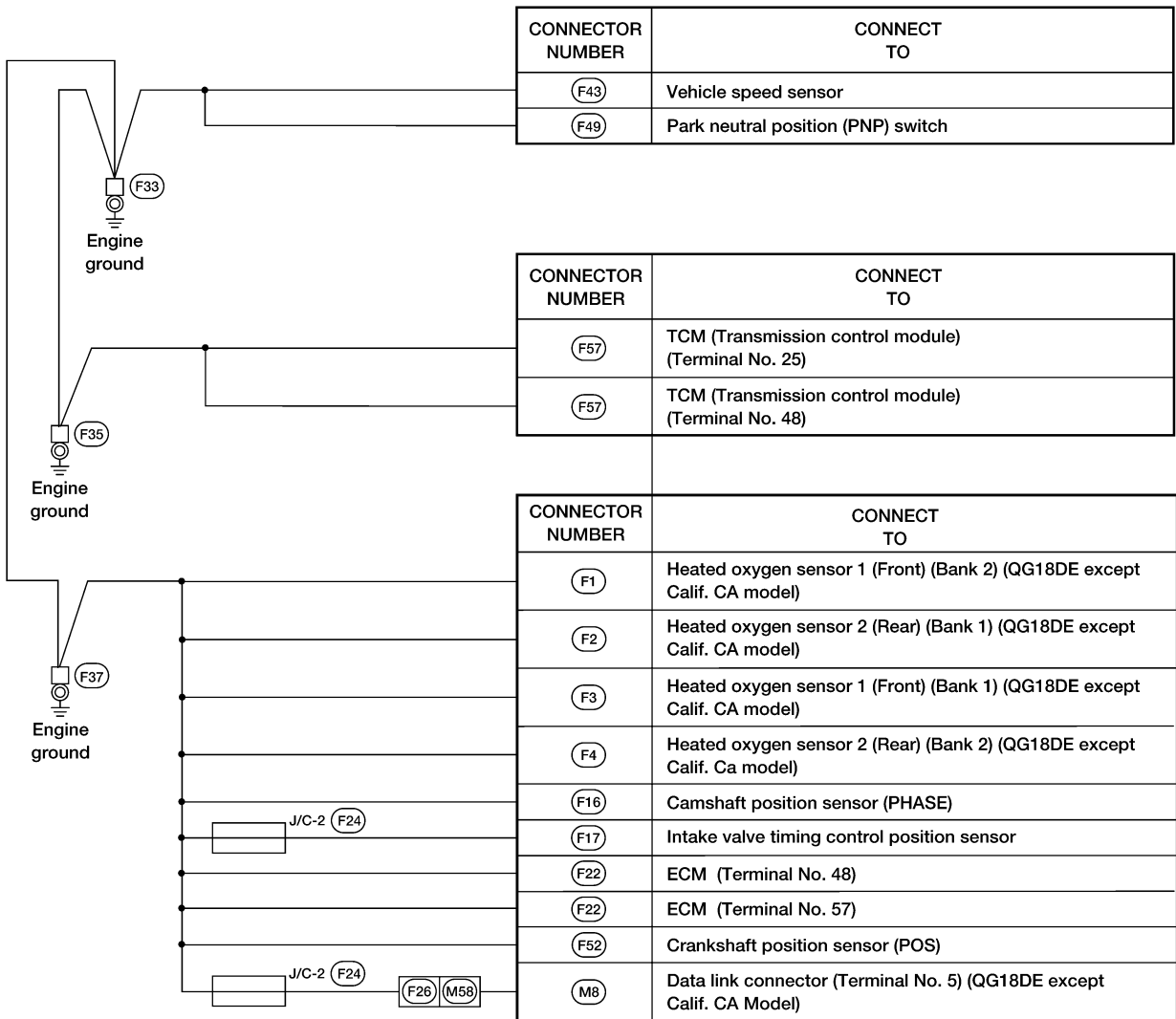
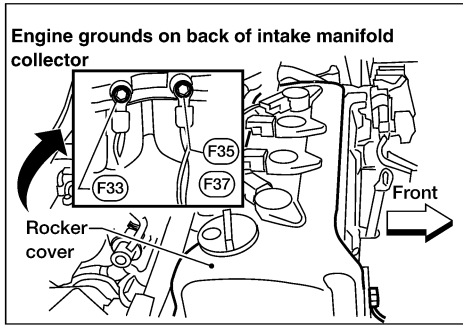


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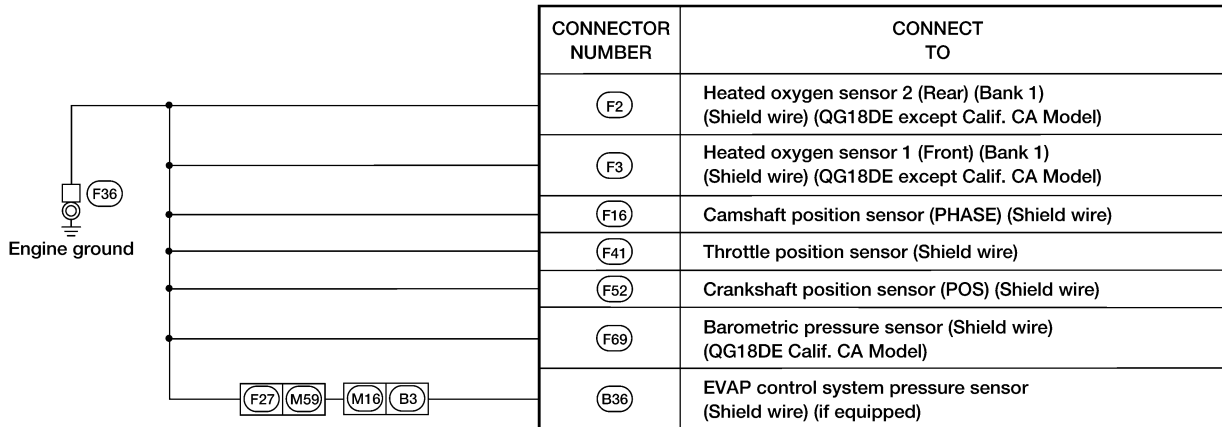
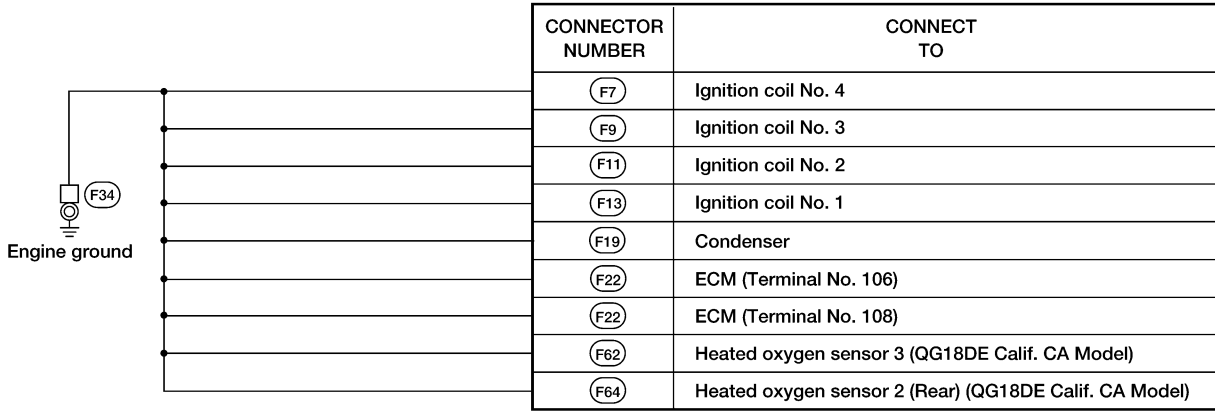
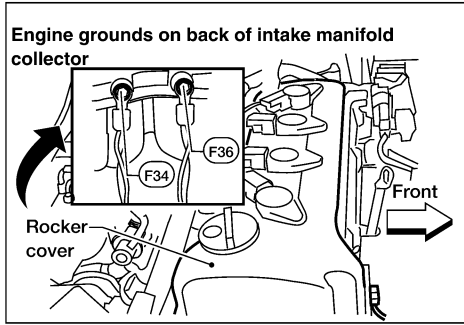
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ENGINE CONTROL HARNESS QG18DE



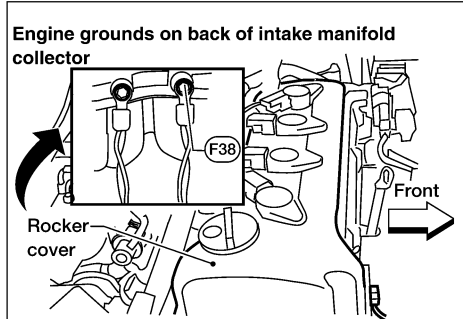
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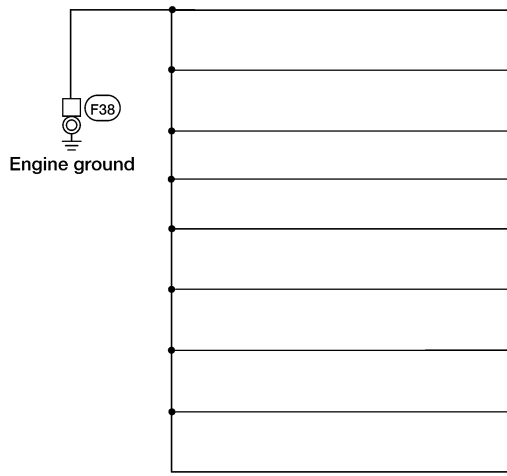
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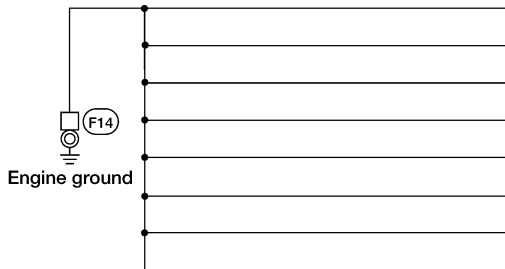
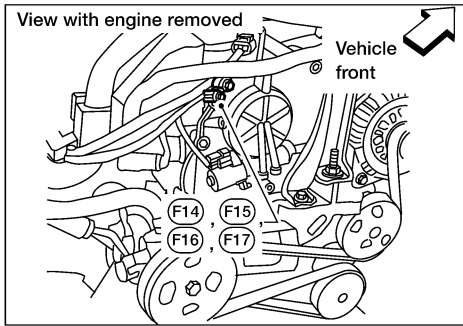


CONNECTOR NUMBER	CONNECT TO
F1	Heated oxygen sensor 1 (Front) (Bank 2) (Shield wire) (QG18DE except Calif. CA Model)
F4	Heated oxygen sensor 2 (Rear) (Bank 2) (Shield wire) (QG18DE except Calif. CA Model)
F17	Intake valve timing control position sensor (Shield wire)
F45	Mass air flow sensor (Shield wire)
F62	Heated oxygen sensor 3 (Shield wire) (QG18DE Calif. CA Model)
F64	Heated oxygen sensor 2 (Rear) (Shield wire) (QG18DE Calif. CA Model)
F65	Air fuel ratio (A/F) sensor 1 (Shield wire) (QG18DE Calif. CA Model)
F67	Swirl control valve position sensor (Shield wire) (QG18DE Calif. CA Model)
F68	Manifold absolute pressure sensor (Shield wire) (QG18DE Calif. CA Model)

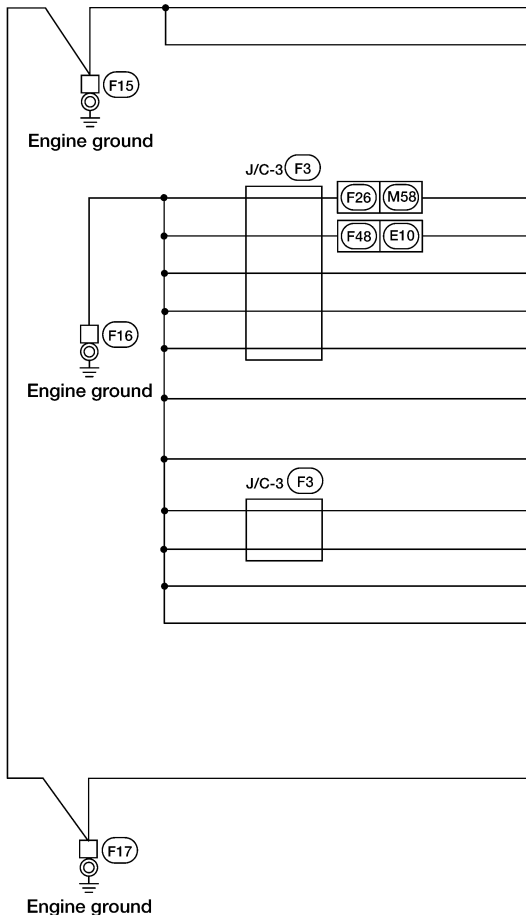


GROUND

QR25DE



CONNECTOR NUMBER	CONNECT TO
F5	Ignition coil No.1 (With power transistor)
F6	Ignition coil No. 2 (With power transistor)
F7	Ignition coil No. 4 (With power transistor)
F8	Ignition coil No. 3 (With power transistor)
F21	Condenser
F29	Park/neutral position (PNP) switch (Terminal No.2) (With A/T)
F54	ECM (Terminal No. 106)
F54	ECM (Terminal No. 108)



CONNECTOR NUMBER	CONNECT TO
F42	Park/neutral position (PNP) switch (Terminal No. 2) (With M/T)
F54	ECM (Terminal No. 115)

CONNECTOR NUMBER	CONNECT TO
M8	Data link connector (Terminal No. 5)
E111	Immobilizer control unit
F9	Camshaft position sensor (PHASE)
F11	Crankshaft position sensor (POS)
F23	Heated oxygen sensor 2 (Rear)
F50	Electric throttle control actuator (Throttle position sensor) (Shield wire)
F50	Electric throttle control actuator (Throttle control motor) (Shield wire)
F54	ECM (Terminal No. 59)
F54	ECM (Terminal No. 60)
F57	TCM (Terminal No. 25)
F57	TCM (Terminal No. 48)

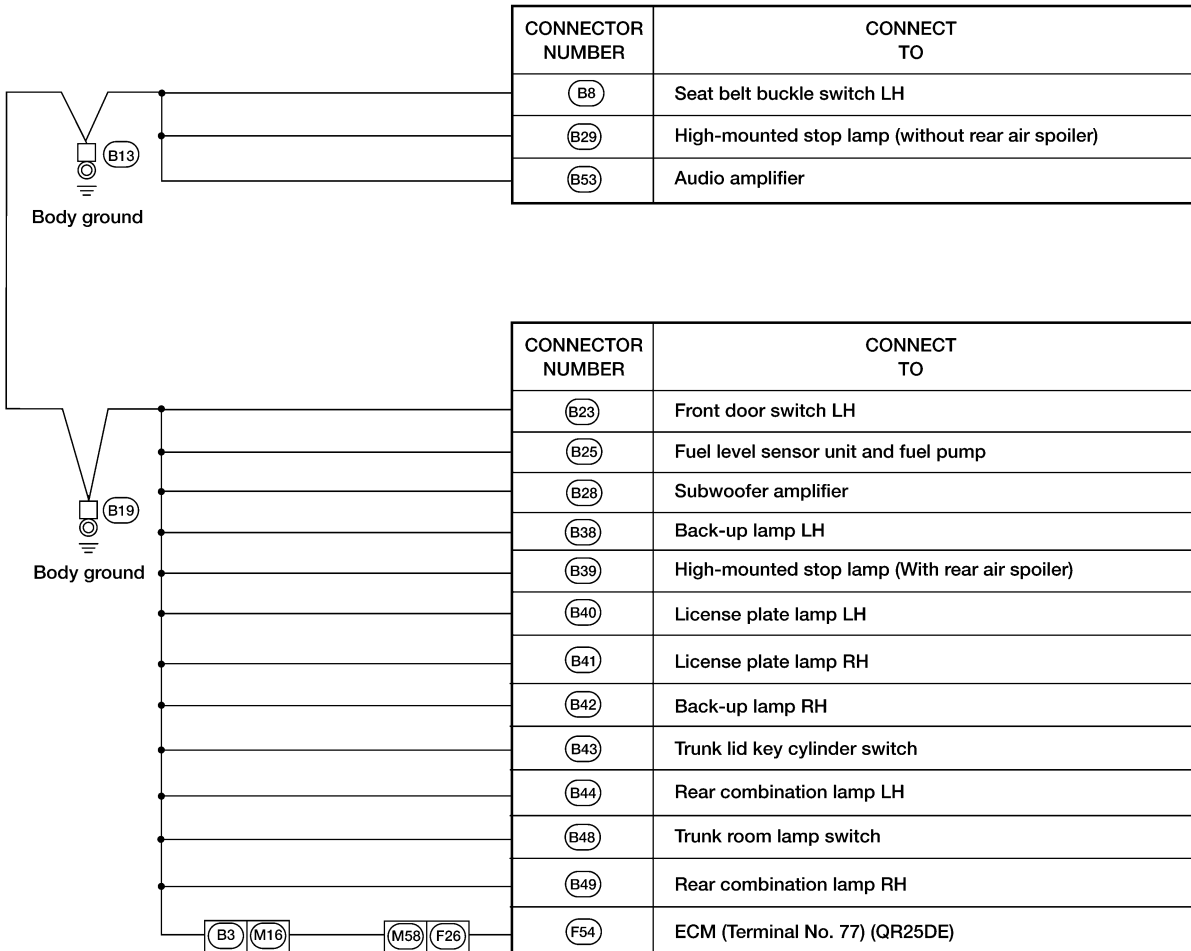
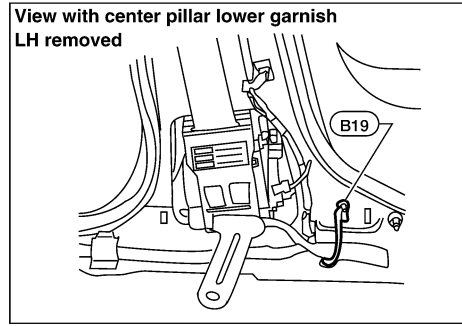
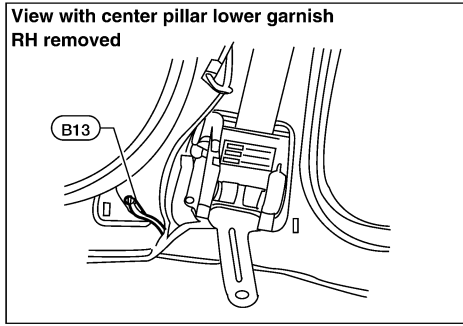
CONNECTOR NUMBER	CONNECT TO
F22	Heated oxygen sensor 1 (Front)

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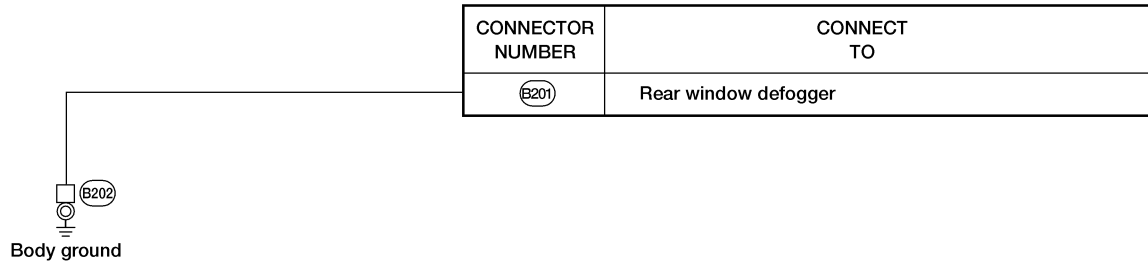
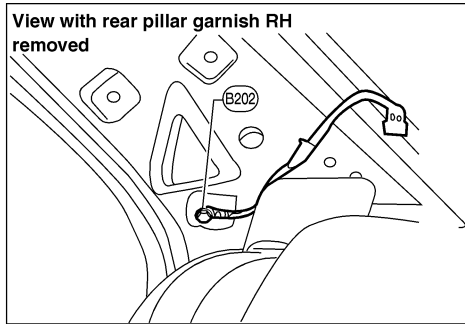
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BODY HARNESS



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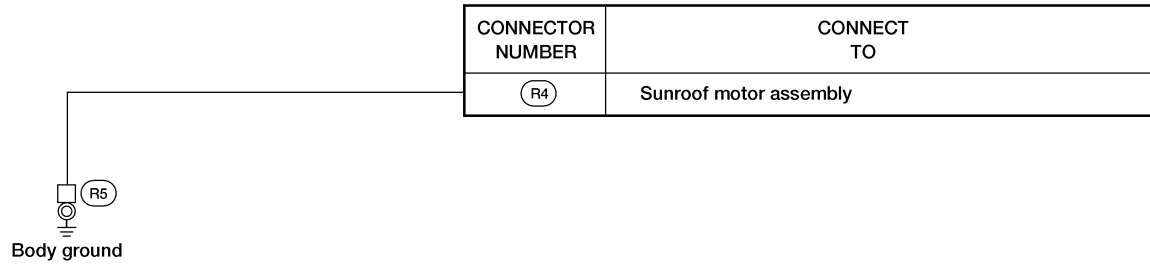
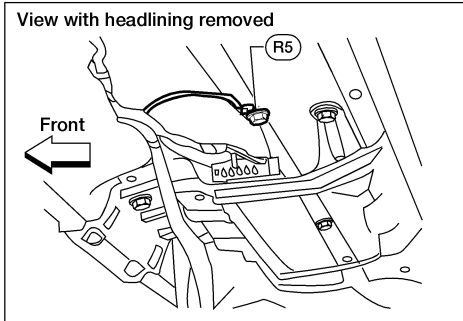
REAR WINDOW DEFOGGER GROUND HARNESS



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GROUND

ROOM HARNESS



HARNESS

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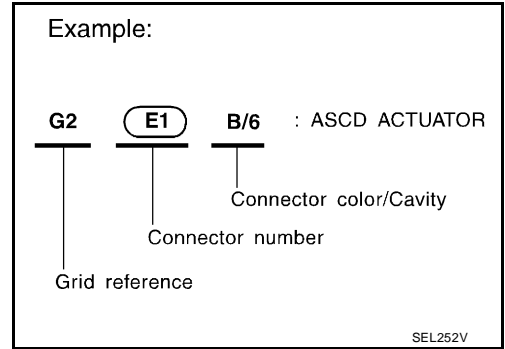
HARNESS

Harness Layout

HOW TO READ HARNESS LAYOUT

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

- Main Harness
- Engine Room Harness
- Engine Control Harness
- Body Harness



TO USE THE GRID REFERENCE

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

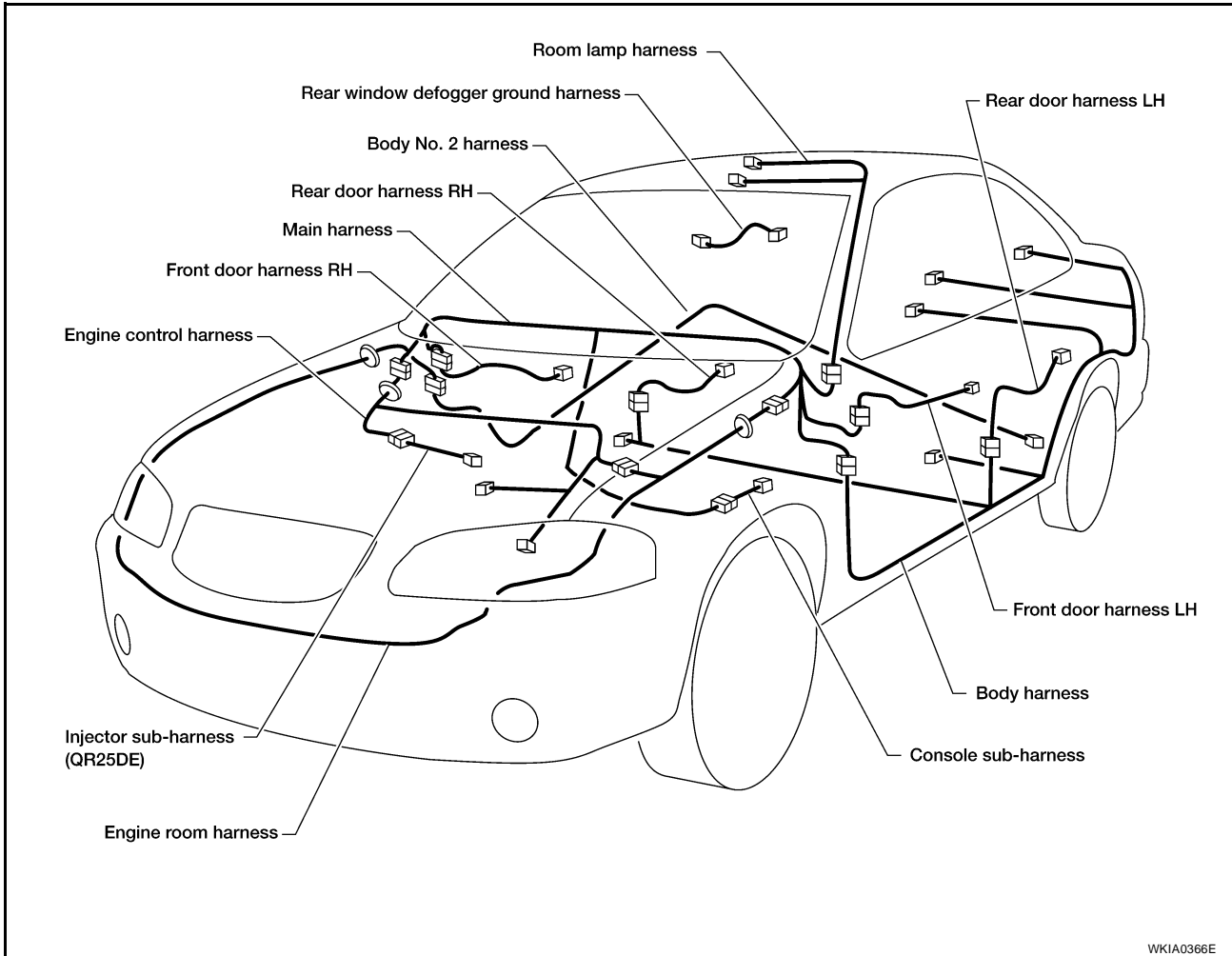
CONNECTOR SYMBOL

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

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

HARNESS

OUTLINE



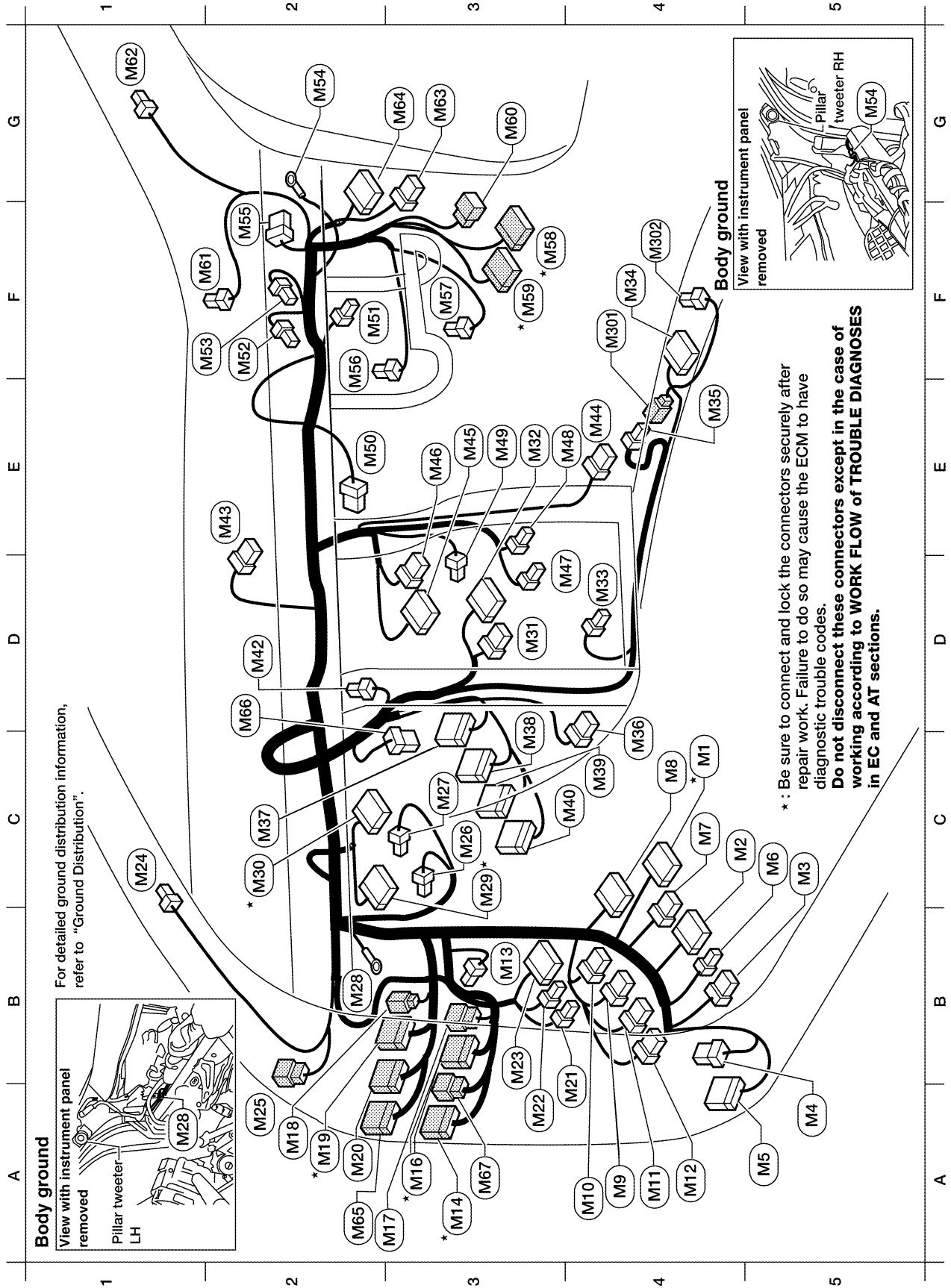
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NOTE:

For detailed ground distribution information, refer to [PG-12, "Ground Distribution"](#) .

HARNESS

MAIN HARNESS



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.

Main harness

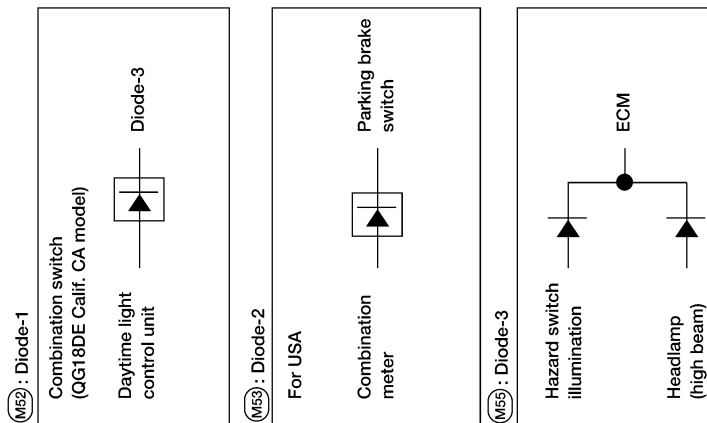
C4	* (M1) W/16	: Fuse block (J/B)
C4	(M2) W/12	: Fuse block (J/B)
C5	(M3) L/5	: Heated mirror relay
A5	(M4) W/8	: To (D1)
A5	(M5) W/16	: To (D2)
C5	(M6) W/2	: Circuit breaker
C4	(M7) W/6	: Fuse block (J/B)
C4	(M8) W/16	: Data link connector
A4	(M9) L/5	: Power window relay
A4	(M10) L/5	: Trunk lid opener relay
A4	(M11) BR/6	: Remote keyless entry relay
A4	(M12) L/5	: Power socket relay
B3	(M13) L/2	: ASCD clutch switch (M/T with ASCD)
A3	* (M14) BR/16	: To (B1)
A3	* (M15) W/20	: To (B3)
A3	(M17) GY/8	: To (E106)
A2	(M18) W/2	: To (E107)
A2	* (M19) W/16	: To (E108)
A2	(M20) W/16	: To (E109)
A4	(M21) B/2	: Trunk lid opener switch
A3	(M22) W/3	: Illumination control switch
B3	(M23) W/10	: Door mirror remote control switch
C1	(M24) BR/2	: Pillar tweeter LH
A2	(M25) W/6	: To (F1)
C3	(M26) B/2	: Stop lamp switch
C3	(M27) BR/2	: ASCD brake switch
B2	(M28)	: Body ground
C3	* (M29) W/24	: Combination meter (without tachometer)
C3	* (M29) BR/24	: Combination meter (with tachometer)
C2	* (M30) BR/20	: Combination meter (without tachometer)
C3	* (M30) W/24	: Combination meter (with tachometer)
D3	(M31) W/6	: Fan control switch
E3	(M32) W/12	: Air control
D4	(M33) B/2	: Cigarette lighter socket

F4	(M34) Y/20	: Air bag diagnosis sensor unit
E4	(M35) W/2	: To (M301)
C4	(M36) Y/7	: Spiral cable
C2	(M37) BR/24	: ASCD control unit (QG18DE)
C3	(M38) W/18	: Smart entrance control unit (with power door locks)
C4	(M39) B/24	: Smart entrance control unit (with power door locks)
C4	(M40) W/10	: Time control unit (without power door locks)
D2	(M42) B/3	: Combination flasher unit
E2	(M43) W/8	: Hazard switch
E4	(M44) W/8	: A/T device
E3	(M45) W/10	: Audio unit
E3	(M46) W/6	: Audio unit
D3	(M47) W/4	: C/D changer
E3	(M48) B/2	: C/D changer
E3	(M49) W/3	: Thermo control amplifier
E3	(M50) B/6	: Intake door motor
F3	(M51) Y/2	: Front passenger air bag module
F2	(M52) W/2	: Diode-1 (for Canada models with QG18DE)
F2	(M53) GY/2	: Diode-2
G2	(M54) -	: Body ground
F2	(M55) L/3	: Diode-3
F2	(M56) BR/4	: Fan resistor
F3	(M57) W/2	: Blower motor
F3	* (M58) W/16	: To (F26)
F3	* (M59) BR/16	: To (F27) (with QG18DE)
F3	* (M59) W/24	: To (F27) (with QR25DE)
G3	(M60) W/6	: To (F28)
F2	(M61) BR/2	: Security indicator lamp
G1	(M62) BR/2	: Pillar tweeter RH
G3	(M63) W/8	: To (D101)
G3	(M64) W/16	: To (D102)

A2	(M65) W/12	: To (B50)
D2	(M66) B/6	: Accelerator pedal position sensor
A3	(M67) W/2	: To (B51)

Console Sub-harness

F4	(M301) W/2	: To (M35)
F4	(M302) B/3	: Power socket

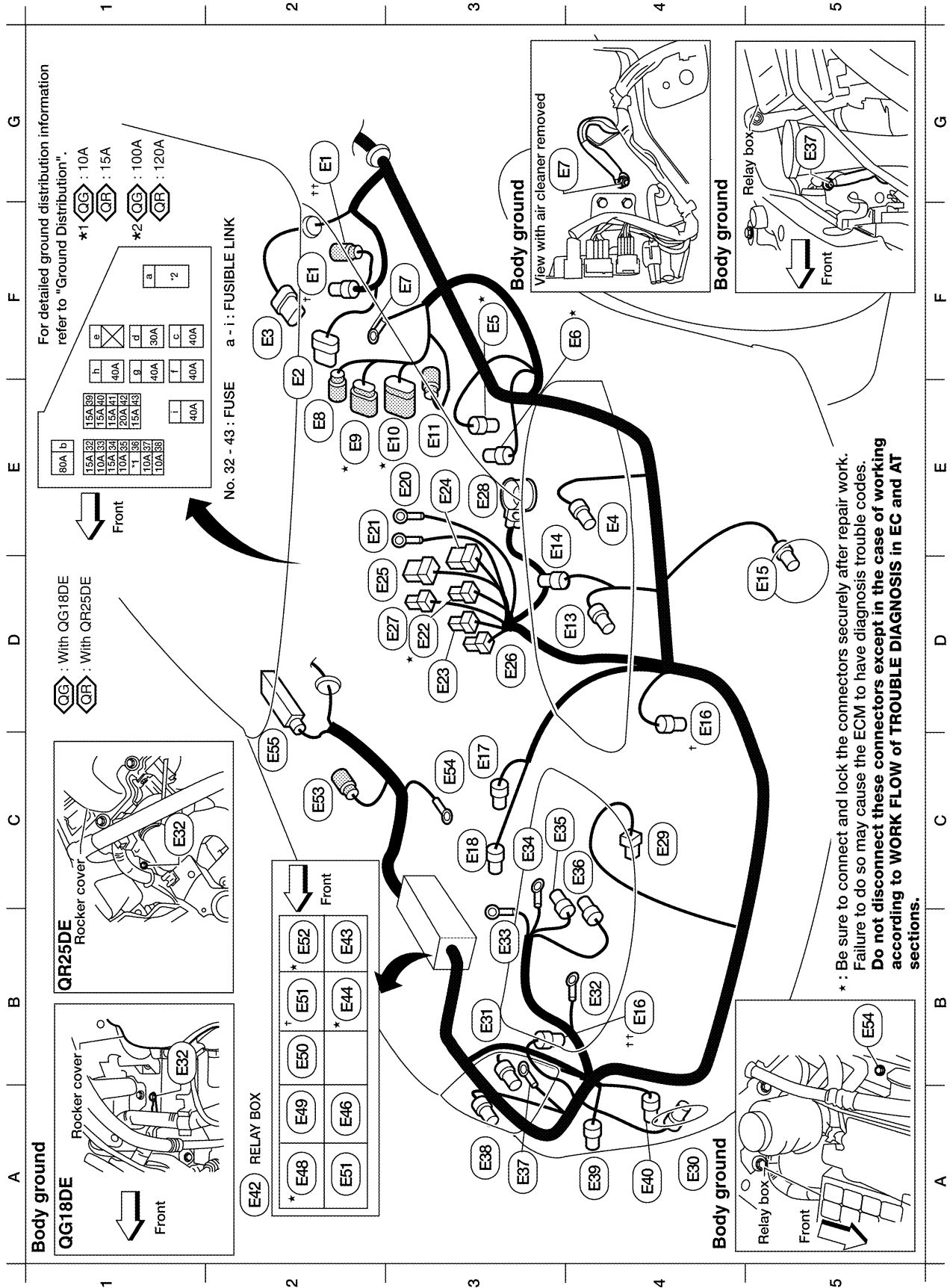


* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.

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

HARNESS

ENGINE ROOM HARNESS



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

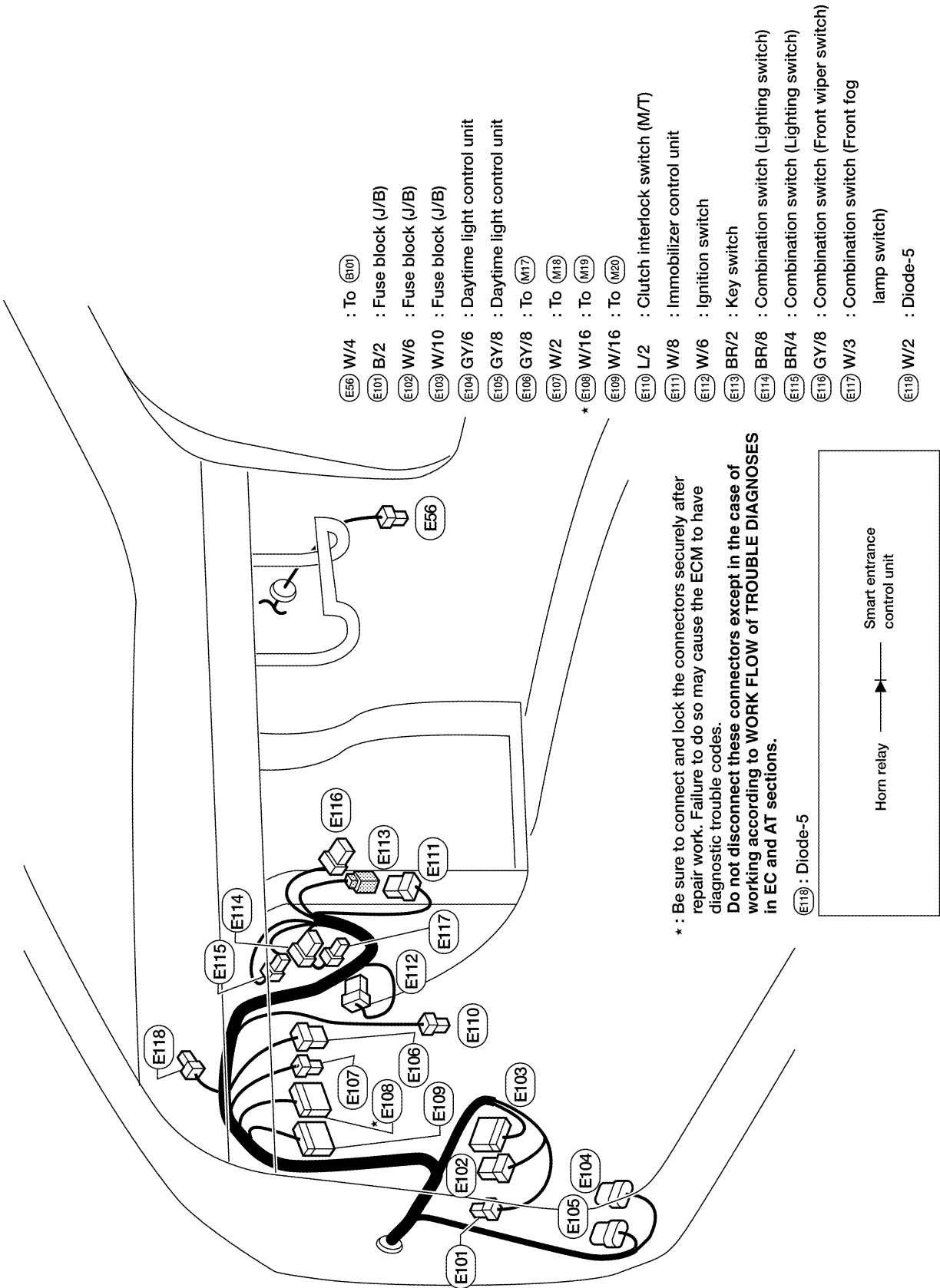
PG

<p>F2 † E1 GY/2 : Brake fluid level switch (with QG18DE)</p> <p>G2 †† E1 GY/2 : Brake fluid level switch (with QR25DE)</p> <p>F2 E2 B/6 : ASCD motor actuator</p> <p>F2 E3 GY/6 : Front wiper motor</p> <p>E4 E4 GY/3 : Front combination lamp LH</p> <p>F3 * E5 GY/2 : Intake air temperature sensor</p> <p>F4 * E6 GY/2 : Dropping resistor</p> <p>F3 E7 - : Body ground</p> <p>E3 E8 GY/1 : To F46</p> <p>E3 * E9 B/6 : To F47 [QG18DE (except Calif. CA model) with M/T]</p> <p>E3 * E9 GY/8 : To F47</p> <p>E4 * E10 GY/10 : To F48</p> <p>E4 E11 BR/2 : Front wheel sensor LH</p> <p>D4 E13 B/3 : Headlamp LH</p> <p>E3 E14 GY/2 : Hood switch</p> <p>D5 E15 GY/2 : Front fog lamp LH</p> <p>D4 † E16 B/3 : Refrigerant pressure sensor (early production)</p> <p>B4 †† E16 B/3 : Refrigerant pressure sensor (late production)</p> <p>C3 E17 GY/4 : Cooling fan motor 1</p> <p>C3 E18 GY/2 : Cooling fan motor 2 (with QG18DE)</p> <p>C3 E18 GY/4 : Cooling fan motor 2 (with QR25DE)</p> <p>E3 E20 - : Fuse and fusible link box</p> <p>E3 E21 - : Fuse and fusible link box</p> <p>D3 * E22 W/3 : Fuse and fusible link box</p> <p>D3 E23 W/4 : Fuse and fusible link box</p> <p>E3 E24 W/6 : Fuse and fusible link box</p> <p>D3 E25 B/6 : Fuse and fusible link box</p> <p>D3 E26 W/1 : Fuse and fusible link box</p> <p>D3 E27 B/1 : Fuse and fusible link box</p> <p>E3 E28 - : Battery (positive)</p> <p>C4 E29 B/1 : Horn</p> <p>A4 E30 GY/2 : Front fog lamp RH</p>	<p>B3 E31 B/3 : Headlamp RH</p> <p>B4 E32 - : Body ground</p> <p>B3 E33 - : Generator</p> <p>C3 E34 - : Generator</p> <p>C3 E35 W/2 : Generator</p> <p>C4 E36 B/1 : A/C compressor</p> <p>A3 E37 - : Body ground</p> <p>A3 E38 GY/3 : Front combination lamp RH</p> <p>A4 E39 GY/2 : Front washer motor</p> <p>A4 E40 BR/2 : Washer fluid level switch</p> <p>A2 E42 - : Relay box</p> <p>B2 E43 BR/6 : Vehicle security lamp relay</p> <p>B2 * E44 BR/6 : Cooling fan relay-3 (with QR25DE)</p> <p>A2 E46 L/4 : Front fog lamp relay</p> <p>A2 * E48 BR/6 : Cooling fan relay-1</p> <p>A2 E49 L/4 : Horn relay</p> <p>A2 E50 L/4 : A/C relay</p> <p>A2 E51 L/4 : Clutch interlock relay (M/T)</p> <p>B2 † E51 L/4 : Park/neutral position (PNP) relay (A/T, without ASCD) (QG18DE)</p> <p>B2 † E51 GY/6 : Park/neutral position (PNP) relay (A/T, with ASCD) (QG18DE)</p> <p>B2 * E52 BR/6 : Cooling fan relay-2</p> <p>C2 E53 GY/2 : Front wheel sensor RH</p> <p>C3 E54 - : Body ground</p> <p>C2 E55 B/31 : ABS actuator and electric unit (control unit)</p>	<p>F2 † E1 GY/2 : Brake fluid level switch (with QG18DE)</p> <p>G2 †† E1 GY/2 : Brake fluid level switch (with QR25DE)</p> <p>F2 E2 B/6 : ASCD motor actuator</p> <p>F2 E3 GY/6 : Front wiper motor</p> <p>E4 E4 GY/3 : Front combination lamp LH</p> <p>F3 * E5 GY/2 : Intake air temperature sensor</p> <p>F4 * E6 GY/2 : Dropping resistor</p> <p>F3 E7 - : Body ground</p> <p>E3 E8 GY/1 : To F46</p> <p>E3 * E9 B/6 : To F47 [QG18DE (except Calif. CA model) with M/T]</p> <p>E3 * E9 GY/8 : To F47</p> <p>E4 * E10 GY/10 : To F48</p> <p>E4 E11 BR/2 : Front wheel sensor LH</p> <p>D4 E13 B/3 : Headlamp LH</p> <p>E3 E14 GY/2 : Hood switch</p> <p>D5 E15 GY/2 : Front fog lamp LH</p> <p>D4 † E16 B/3 : Refrigerant pressure sensor (early production)</p> <p>B4 †† E16 B/3 : Refrigerant pressure sensor (late production)</p> <p>C3 E17 GY/4 : Cooling fan motor 1</p> <p>C3 E18 GY/2 : Cooling fan motor 2 (with QG18DE)</p> <p>C3 E18 GY/4 : Cooling fan motor 2 (with QR25DE)</p> <p>E3 E20 - : Fuse and fusible link box</p> <p>E3 E21 - : Fuse and fusible link box</p> <p>D3 * E22 W/3 : Fuse and fusible link box</p> <p>D3 E23 W/4 : Fuse and fusible link box</p> <p>E3 E24 W/6 : Fuse and fusible link box</p> <p>D3 E25 B/6 : Fuse and fusible link box</p> <p>D3 E26 W/1 : Fuse and fusible link box</p> <p>D3 E27 B/1 : Fuse and fusible link box</p> <p>E3 E28 - : Battery (positive)</p> <p>C4 E29 B/1 : Horn</p> <p>A4 E30 GY/2 : Front fog lamp RH</p>
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* : 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.

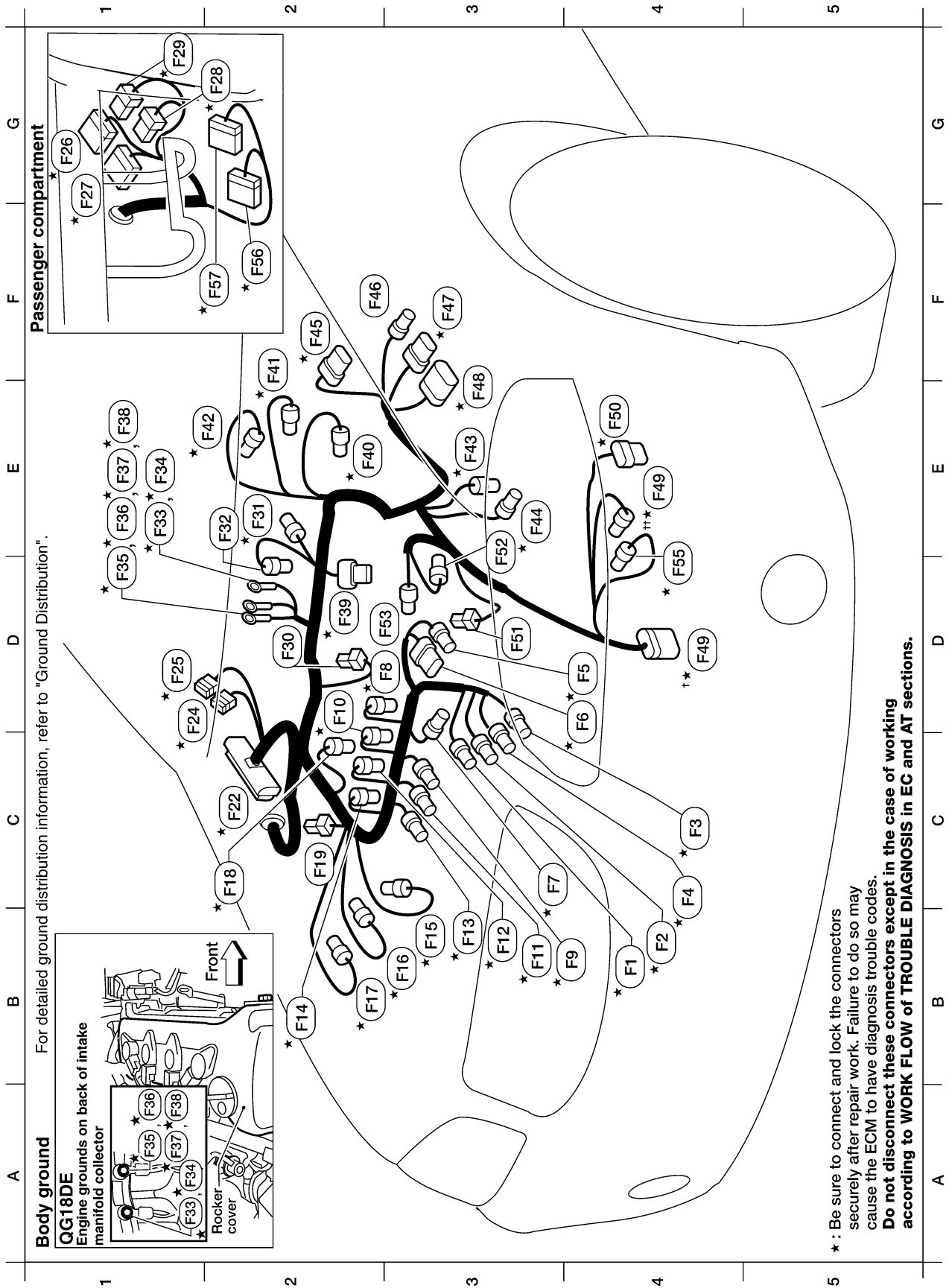
HARNESS



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HARNESS

ENGINE CONTROL HARNESS QG18DE (EXCEPT CALIF. CA MODEL)



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

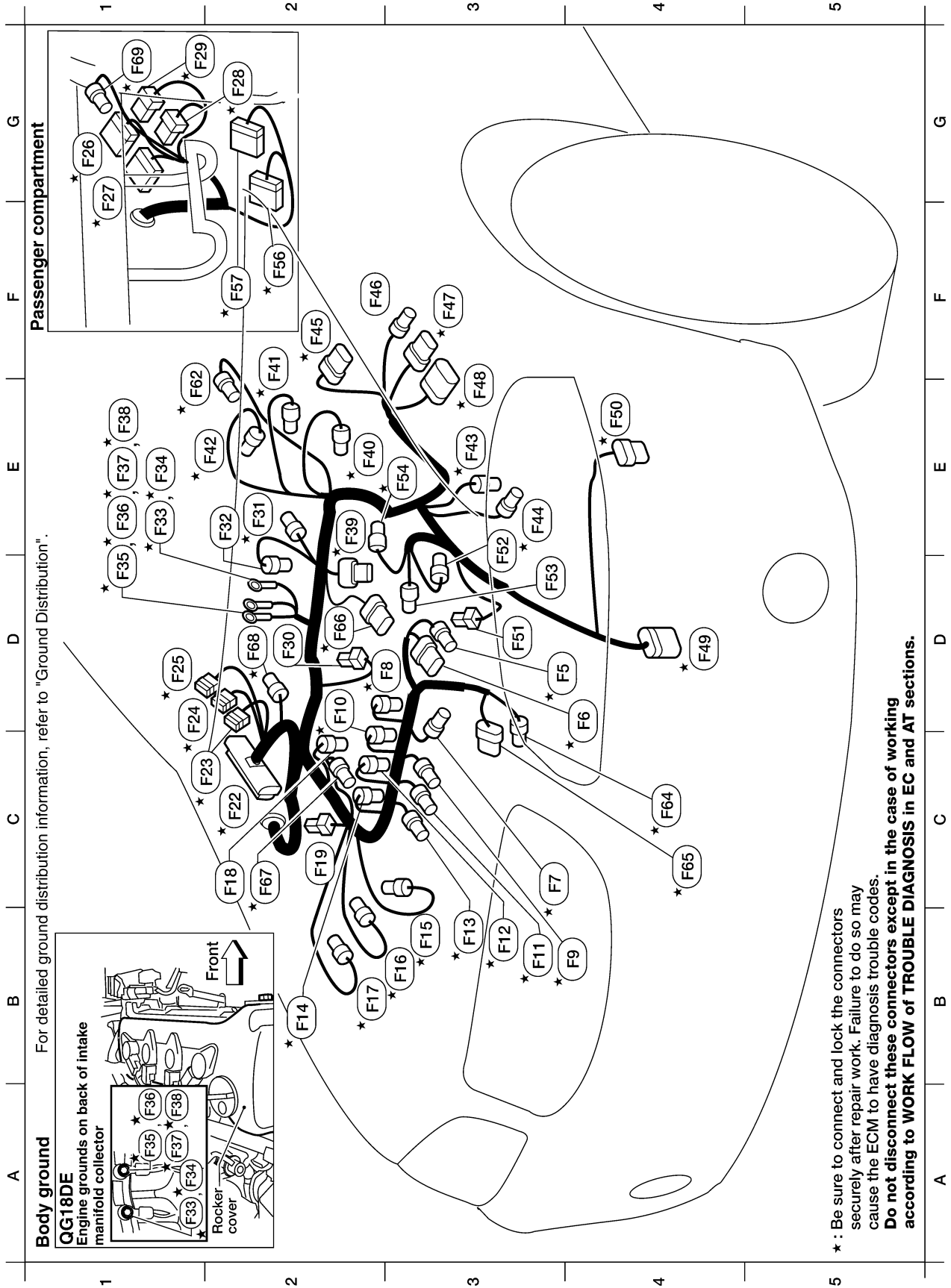
Engine control harness

B4	* (F1) SB/3	: Heated oxygen sensor 1 (Front) (Bank 2)	G2	* (F28) W/6	: To (M60)
B4	* (F2) L/4	: Heated oxygen sensor 2 (Rear) (Bank 1)	G1	* (F29) BR/6	: ECM Relay
C4	* (F3) SB/3	: Heated oxygen sensor 1 (Front) (Bank 1)	D2	(F30)	- : Power steering oil pressure switch
C4	* (F4) G/4	: Heated oxygen sensor 2 (Rear) (Bank 2)	E2	* (F31) GY/2	: Knock sensor
D4	* (F5) L/2	: EVAP canister purge volume control solenoid valve	E2	(F32) GY/1	: Oil pressure switch
D4	* (F6) G/6	: EGR volume control valve	E1	* (F33)	- : Engine ground
C3	* (F7) GY/3	: Ignition coil No. 4	E1	* (F34)	- : Engine ground
D3	* (F8) GY/2	: Injector No.4	D1	* (F35)	- : Engine ground
B4	* (F9) GY/3	: Ignition coil No. 3	E1	* (F36)	- : Engine ground
D2	* (F10) GY/2	: Injector No. 3	E1	* (F37)	- : Engine ground
B3	* (F11) GY/3	: Ignition coil No. 2	E1	* (F38)	- : Engine ground
B3	* (F12) GY/2	: Injector No. 2	D2	* (F39) L/6	: IACV-ACC valve
B3	* (F13) GY/3	: Ignition coil No. 1	E2	* (F40) GY/3	: Throttle position switch
B2	* (F14) GY/2	: Injector No. 1	F2	* (F41) BR/3	: Throttle position sensor
B3	* (F15) GY/2	: Engine coolant temperature sensor	E2	* (F42) L/2	: EGR temperature sensor
B3	* (F16) B/3	: Camshaft position sensor (PHASE)	E3	* (F43) GY/2	: Vehicle speed sensor
B2	* (F17) G/3	: Intake valve timing control position sensor	E3	* (F44) BR/3	: Revolution sensor (A/T)
C2	* (F18) G/2	: Intake valve timing control solenoid valve	F2	* (F45) GY/5	: Mass air flow sensor
C2	(F19) GY/2	: Condenser	F2	(F46) GY/1	: To (E8)
C2	* (F22) SMJ	: ECM	F3	* (F47) GY/8	: To (E9)
D1	* (F24) L/12	: Joint connector-2	E3	* (F48) GY/10	: To (E10)
D1	* (F25) GY/6	: Joint connector-3	E4	†* (F49) B/2	: Park/neutral position (PNP) switch (M/T)
G1	* (F26) W/16	: To (M68)	D4	†* (F49) B/10	: Park/neutral position (PNP) switch (A/T)
F1	* (F27) BR/16	: To (M69)	E4	* (F50) B/8	: Terminal cord assembly (A/T)
			D3	(F51) B/1	: Thermal transmitter
			E3	* (F52) B/3	: Crankshaft position sensor (POS)
			D3	(F53) GY/1	: Starter motor
			E4	(F55) B/2	: Back-up lamp switch (M/T)
			A2	* (F56) W/24	: TCM (transmission control module)
			B2	* (F57) GY/24	: TCM (transmission control module)

* : 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

QG18DE (CALIF. CA MODEL)



For detailed ground distribution information, refer to "Ground Distribution".

Body ground

QG18DE
Engine grounds on back of intake manifold collector

Rocker cover

Front

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

Engine control harness

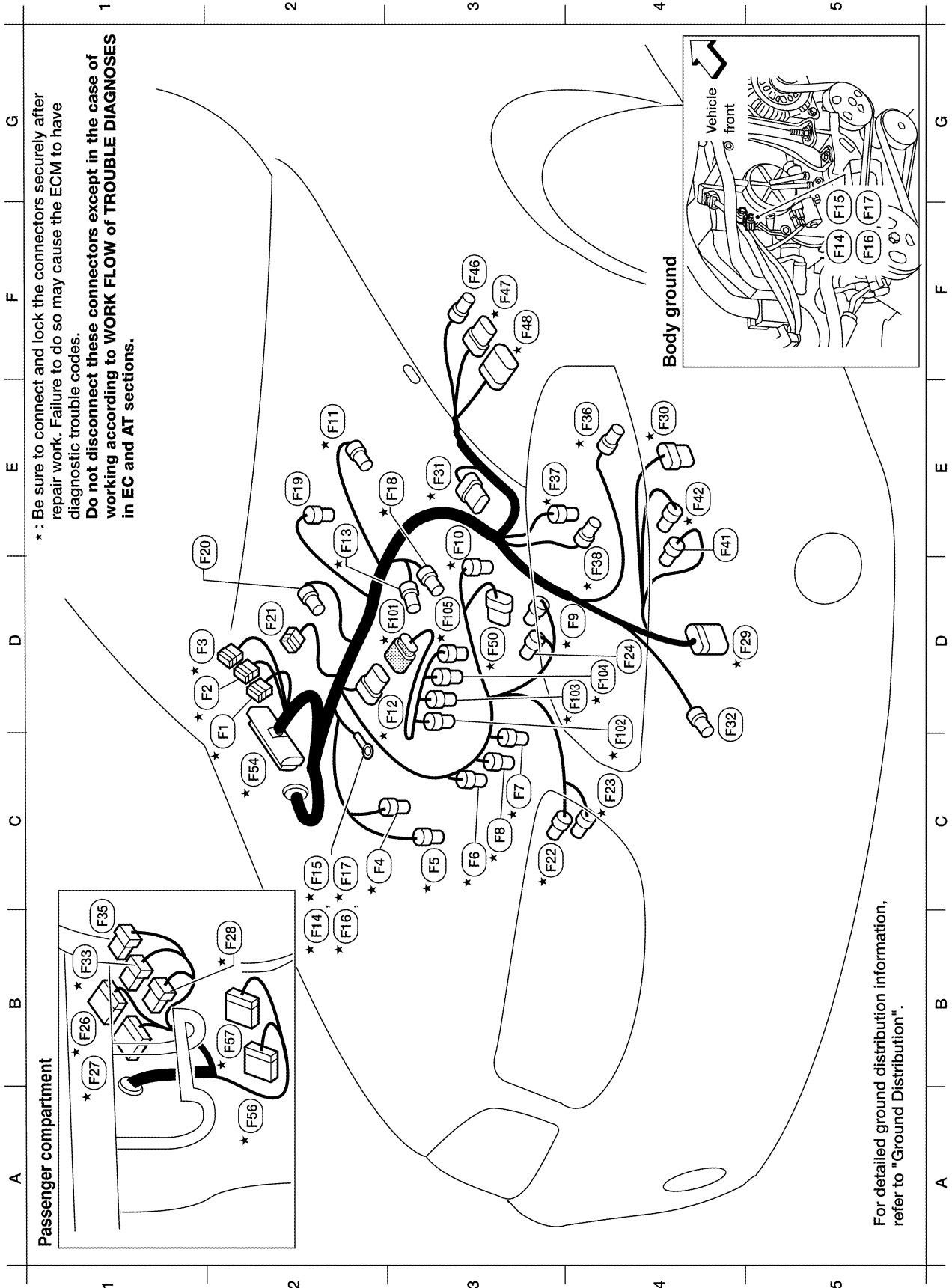
D4	* (F5) L/2	: EVAP canister purge volume control solenoid valve	D1	* (F35)	-	: Engine ground
D4	* (F6) G/6	: EGR volume control valve	E1	* (F36)	-	: Engine ground
C3	* (F7) GY/3	: Ignition coil No. 4	E1	* (F37)	-	: Engine ground
D3	* (F8) GY/2	: Injector No.4	E1	* (F38)	-	: Engine ground
B4	* (F9) GY/3	: Ignition coil No. 3	E2	* (F39) L/6	: IACV-ACC valve	
D2	* (F10) GY/2	: Injector No. 3	E2	* (F40) GY/3	: Throttle position switch	
B3	* (F11) GY/3	: Ignition coil No. 2	F2	* (F41) BR/3	: Throttle position sensor	
B3	* (F12) GY/2	: Injector No. 2	E2	* (F42) L/2	: EGR temperature sensor	
B3	* (F13) GY/3	: Ignition coil No. 1	E3	* (F43) GY/2	: Vehicle speed sensor	
B2	* (F14) GY/2	: Injector No. 1	E3	* (F44) BR/3	: Revolution sensor	
B3	* (F15) GY/2	: Engine coolant temperature sensor	F2	* (F45) GY/5	: Mass air flow sensor	
B3	* (F16) B/3	: Camshaft position sensor (PHASE)	F2	(F46) GY/1	: To (E8)	
B2	* (F17) G/3	: Intake valve timing control position sensor	F3	* (F47) GY/8	: To (E9)	
C2	* (F18) G/2	: Intake valve timing control solenoid valve	E3	* (F48) GY/10	: To (E10)	
C2	(F19) GY/2	: Condenser	D4	* (F49) B/10	: Park/neutral position (PNP) switch	
C2	* (F22) SMJ	: ECM	E4	* (F50) B/8	: Terminal cord assembly	
C2	* (F23) G/12	: Joint connector-1	D3	(F51) B/1	: Thermal transmitter	
D1	* (F24) L/12	: Joint connector-2	E3	* (F52) B/3	: Crankshaft position sensor (POS)	
D1	* (F25) GY/6	: Joint connector-3	D3	(F53) GY/1	: Starter motor	
G1	* (F26) W/16	: To (M58)	F2	* (F56) W/24	: TCM (Transmission control module)	
F1	* (F27) BR/16	: To (M59)	F2	* (F57) GY/24	: TCM (Transmission control module)	
G2	* (F28) W/6	: To (M60)	E1	* (F62) GY/4	: Heated oxygen sensor 3	
G1	* (F29) BR/6	: ECM Relay	C4	* (F64) GY/4	: Heated oxygen sensor 2 (Rear)	
D2	(F30) -	: Power steering oil pressure switch	C4	* (F65) B/6	: Air fuel ratio (A/F) sensor 1	
E2	* (F31) GY/2	: Knock sensor	D2	* (F66) GY/6	: Swirl control valve	
E2	(F32) GY/1	: Oil pressure switch	C2	* (F67) BR/3	: Swirl control valve position sensor	
E1	* (F33) -	: Engine ground	D2	* (F68) GY/3	: Manifold absolute pressure sensor	
E1	* (F34) -	: Engine ground	G1	* (F69) GY/3	: Barometric pressure sensor	

* : 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

QR25DE



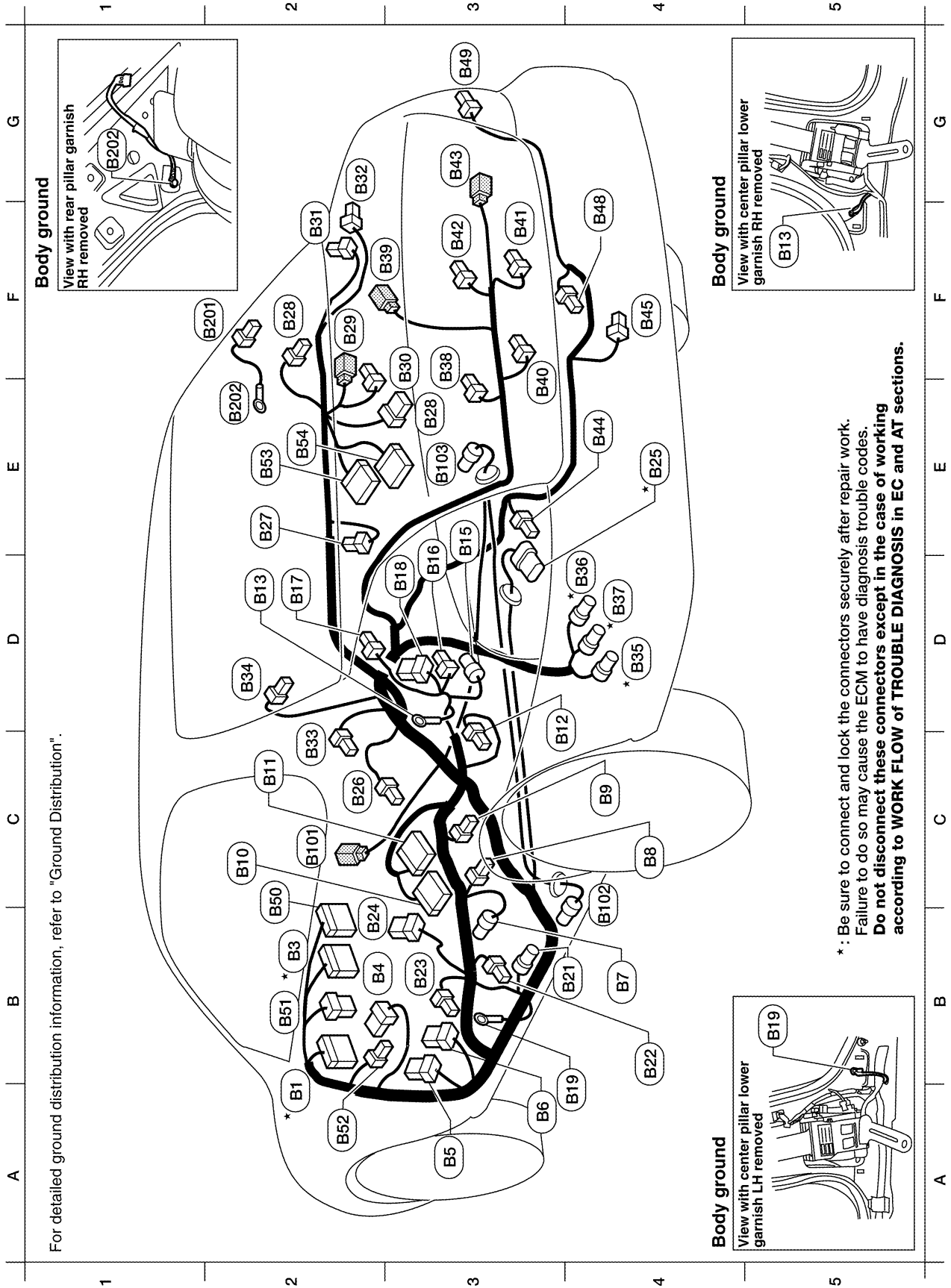
* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
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For detailed ground distribution information, refer to "Ground Distribution".

WKIA00376E

HARNESS

BODY HARNESS



For detailed ground distribution information, refer to "Ground Distribution".

Body ground
View with rear pillar garnish RH removed

Body ground
View with center pillar lower garnish RH removed

Body ground
View with center pillar lower garnish LH removed

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

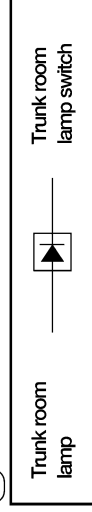
Body harness

A2	*	(E1)	BR/16	: To	(M14)	F2	(E82)	W/1	: Rear door switch RH
B2	*	(E3)	W/20	: To	(M16)	C2	(E83)	W/2	: Diode-4
B2		(E4)	W/8	: Fuse block (J/B)		D2	(E84)	B/1	: Rear window defogger
A3		(E5)	L/5	: Fuel pump relay		D4	(E85)	B/2	: EVAP canister vent control valve
A3		(E6)	BR/6	: Rear window defogger relay		D4	(E86)	GY/3	: EVAP control system pressure sensor
B4		(E7)	Y/2	: Front LH side air bag module		D4	(E87)	G/2	: Vacuum cut valve bypass valve
C4		(E8)	W/3	: Seat belt buckle switch LH		F3	(E88)	W/2	: Back-up lamp LH
C4		(E9)	B/1	: Parking brake switch		F2	(E89)	BR/2	: High-mounted stop lamp (With spoiler)
C2		(E10)	Y/12	: Air bag diagnosis sensor unit		E3	(E90)	W/2	: License plate lamp LH
C2		(E11)	Y/12	: Air bag diagnosis sensor unit		F3	(E91)	W/2	: License plate lamp RH
D4		(E12)	Y/2	: Front RH side air bag module		F3	(E92)	W/2	: Back-up lamp RH
D2		(E13)	-	: Body ground		G3	(E93)	W/2	: Trunk lid key cylinder switch (Unlock switch) (with vehicle security system)
E3		(E15)	Y/2	: RH side air bag (Satellite) sensor		E4	(E94)	W/4	: Rear combination lamp LH
E3		(E16)	Y/2	: Front RH seat belt pre-tensioner		F4	(E95)	W/4	: Trunk lid opener actuator
D2		(E17)	W/3	: Front door switch RH		F4	(E96)	W/2	: Trunk room lamp switch
D3		(E18)	W/8	: To (D301)		G3	(E99)	W/4	: Rear combination lamp RH
A4		(E19)	-	: Body ground		B2	(E90)	W/12	: To (M65)
B3		(E21)	Y/2	: LH side air bag (Satellite) sensor		B2	(E91)	W/2	: To (M67)
B4		(E22)	Y/2	: Front LH seat belt pre-tensioner		A2	(E92)	W/4	: To (D9)
B3		(E23)	W/3	: Front door switch LH		E2	(E93)	W/12	: Audio amplifier (with premium audio system)
B2		(E24)	W/8	: To (D201)		E2	(E94)	W/12	: Audio amplifier (with premium audio system)
E4	*	(E25)	GY/5	: Fuel level sensor unit and fuel pump		Body harness No. 2			
C2		(E26)	W/1	: Rear door switch LH		C2	(E101)	W/4	: To (E56)
E2		(E27)	BR/2	: Rear speaker LH		C4	(E102)	BR/2	: Rear wheel sensor LH
E3		(E28)	W/8	: Subwoofer (with mid level audio system)		E3	(E103)	GY/2	: Rear wheel sensor RH
F2		(E28)	W/4	: Subwoofer (with premium audio system)		Rear window defogger ground sub-harness			
F2		(E29)	W/2	: High-mounted stop lamp (Without air spoiler)		F2	(E201)	B/1	: Rear window defogger
F3		(E30)	W/2	: Trunk room lamp		F2	(E202)	-	: Body ground
F2		(E31)	BR/2	: Rear speaker RH					

* : 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.

(E83) : Diode-4



HARNESS

ROOM LAMP HARNESS

(R1) W/6 : To (M25)

(R2) W/2 : Vanity lamp LH

(R3) W/3 : Map lamp

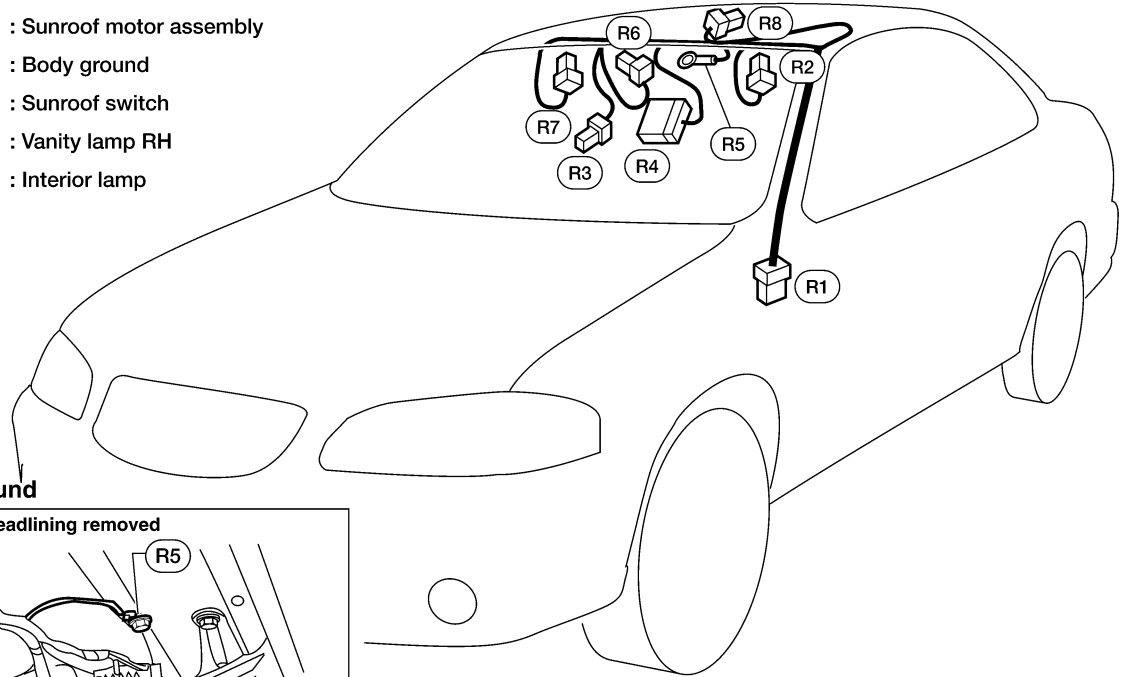
(R4) B/12 : Sunroof motor assembly

(R5) - : Body ground

(R6) W/4 : Sunroof switch

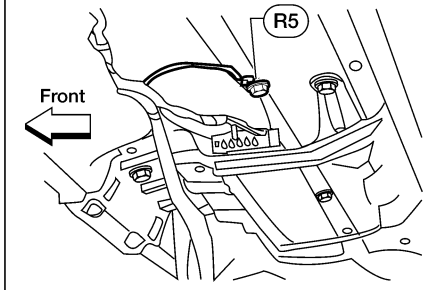
(R7) W/2 : Vanity lamp RH

(R8) W/2 : Interior lamp



Body ground

View with headlining removed



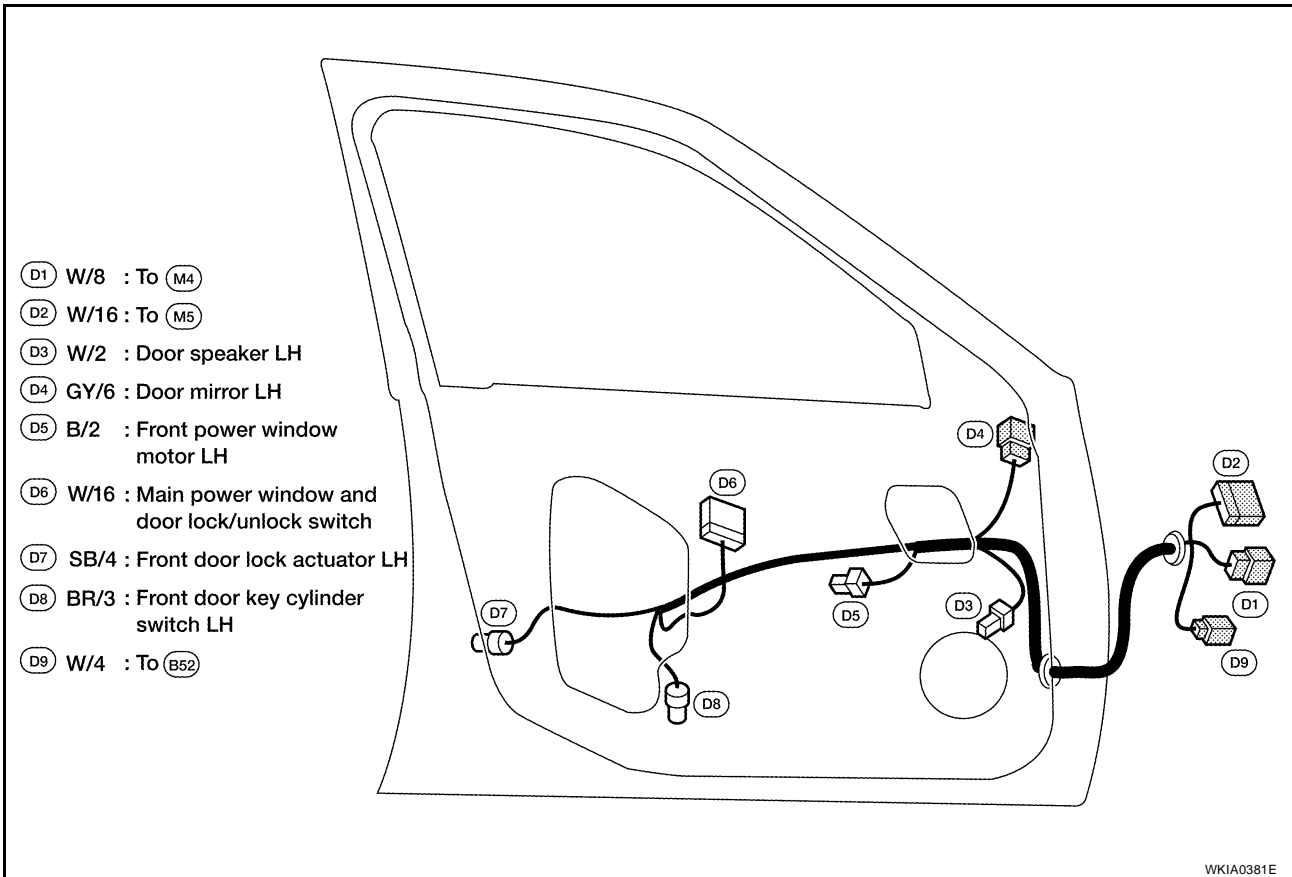
For detailed ground distribution information, refer to "Ground Distribution".

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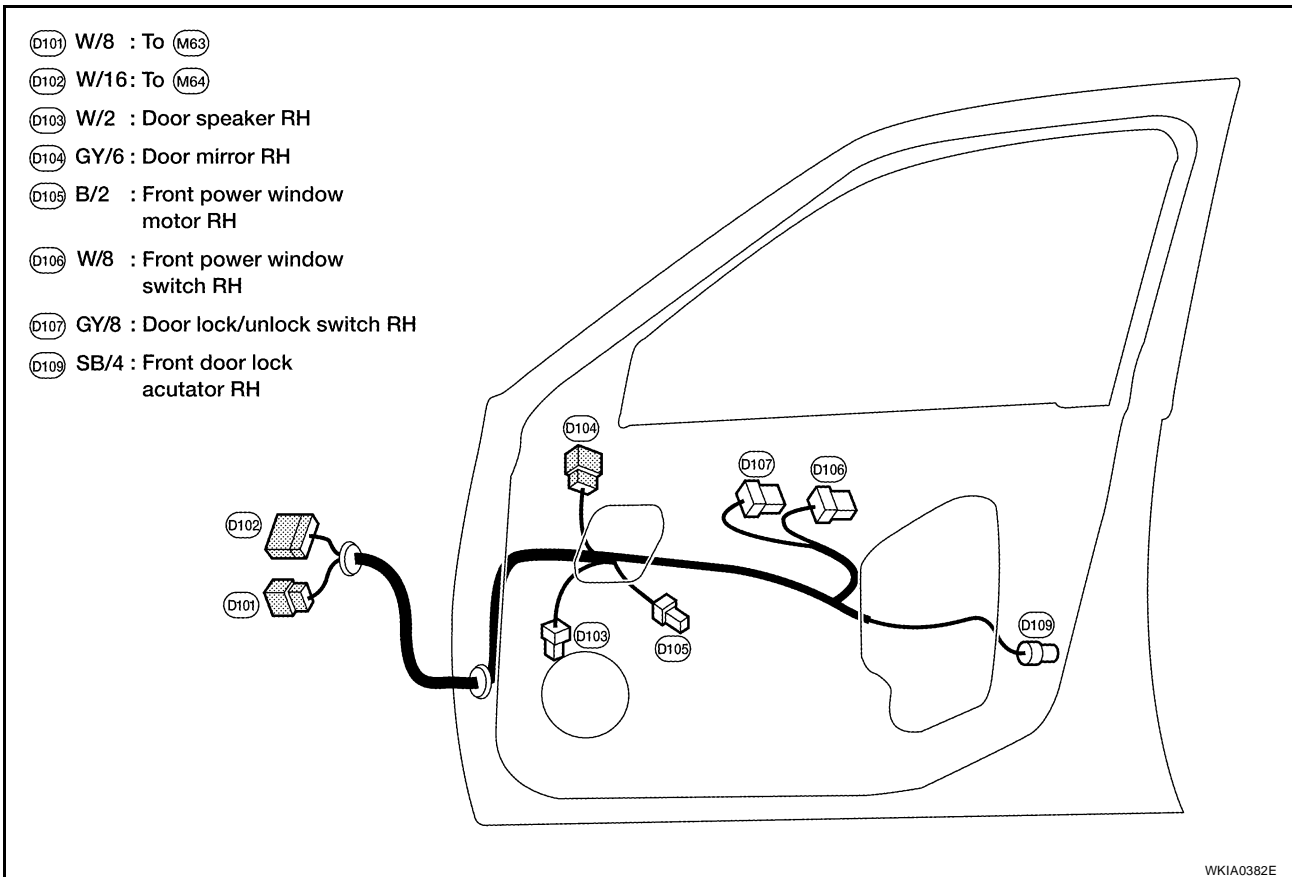
HARNESS

FRONT DOOR HARNESS

LH SIDE



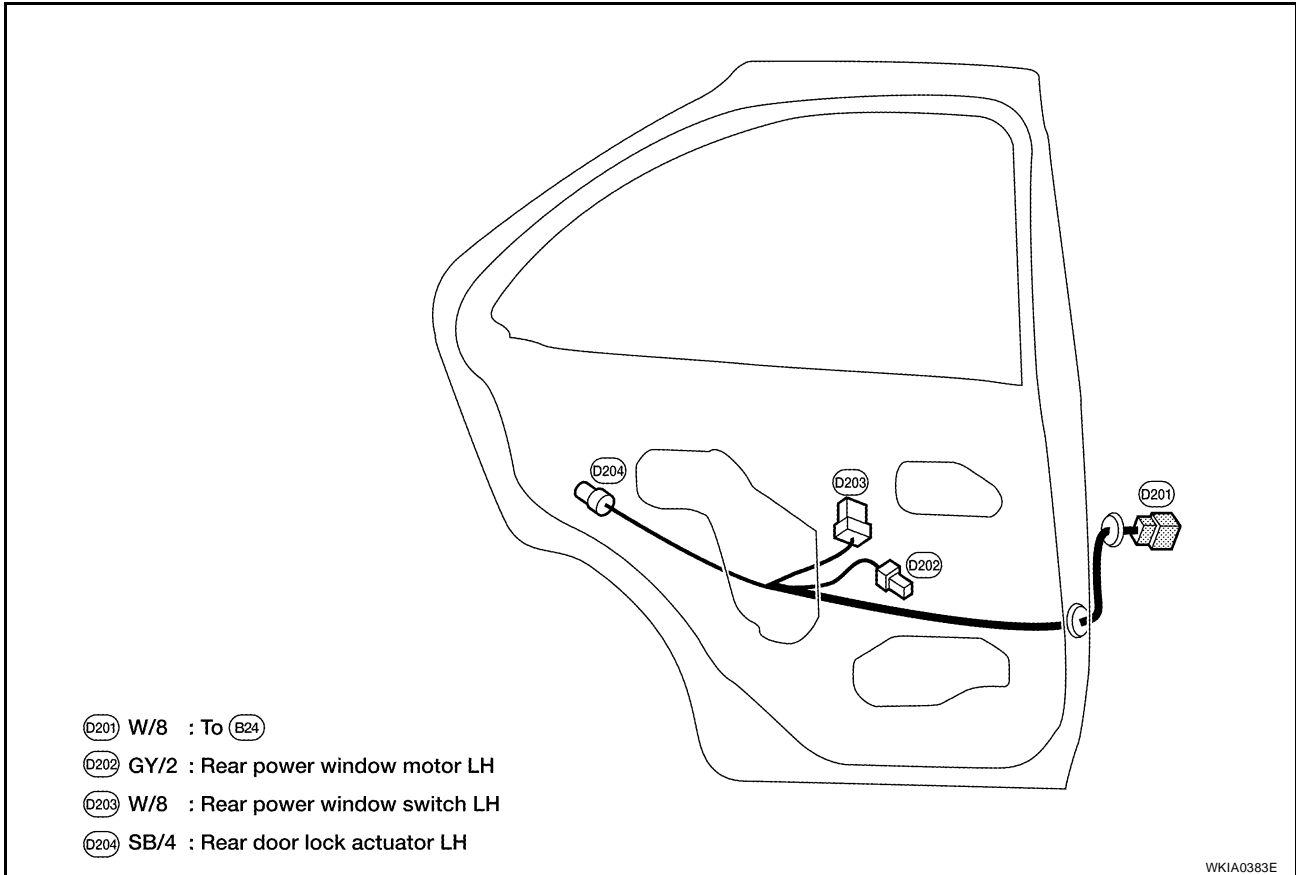
RH SIDE



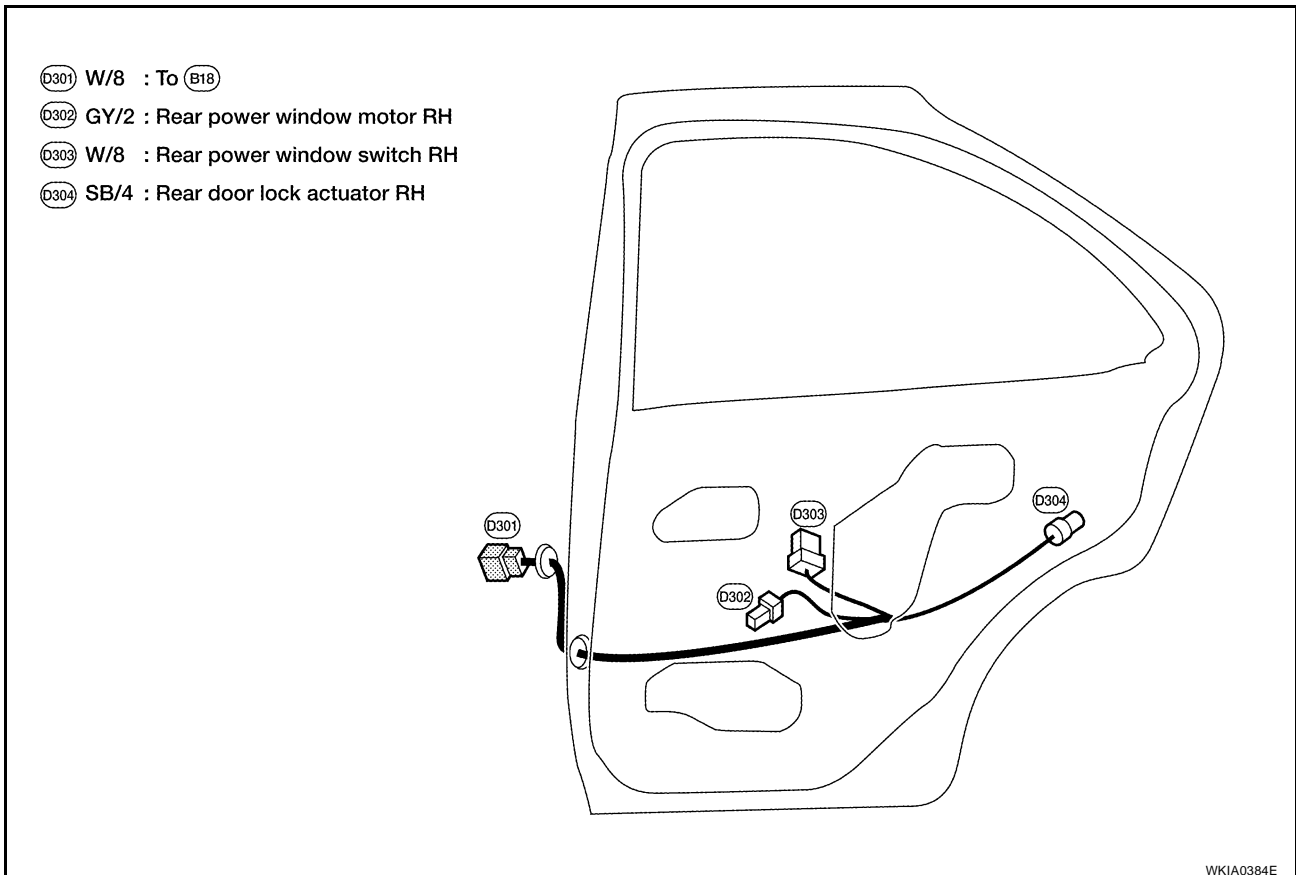
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HARNESS

REAR DOOR HARNESS LH SIDE



RH SIDE



HARNESS

Wiring Diagram Codes (Cell Codes)

EKS002CX

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
AAC/V	EC	IACV-AAC Valve (QG18DE Model)
ABS	BRC	Anti-lock Brake System
A/C	MTC	Air Conditioner
A/F	EC	Air Fuel Ratio (A/F) Sensor 1 [QG18DE (Calif. CA Model)]
A/FH	EC	Air Fuel Ratio (A/F) Sensor 1 Heater [QG18DE (Calif. CA Model)]
APPS1	EC	Accelerator Pedal Position Sensor (QR25DE Model)
APPS2	EC	Accelerator Pedal Position Sensor (QR25DE Model)
APPS3	EC	Accelerator Pedal Position Sensor (QR25DE Model)
ASCD	ACS	Automatic Speed Control Device (ASCD) (QG18DE Model)
ASC/BS	EC	ASCD Brake Switch (QR25DE Model)
ASCBOF	EC	ASCD Brake Switch (QR25DE Model)
ASCIND	EC	ASCD Indicator (QR25DE Model)
ASC/SW	EC	ASCD Steering Switch (QR25DE Model)
AT/C	EC	A/T Control (QG18DE Model)
ATDIAG	EC	A/T Diagnosis Communication Line (QG18DE Model)
AUDIO	AV	Audio
BACK/L	LT	Back-up Lamp
BA/FTS	AT	A/T Fluid Temperature Sensor and TCM Power Supply
BRK/SW	EC	Brake Switch (QR25DE Model)
BYPS/V	EC	Vacuum Cut Valve Bypass Valve
CAN	AT	CAN Communication Line (QR25DE Model)
CAN	EC	CAN Communication Line (QR25DE Model)
CAN	LAN	CAN Communication Line (QR25DE Model)
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
CIGAR	WW	Cigarette Lighter
COOL/F	EC	Cooling Fan Control
DEF	GW	Rear Window Defogger
DLC	EC	Data Link Connector (QR25DE Model)
D/LOCK	BL	Power Door Lock
DTRL	LT	Headlamp - With Daytime Light System (For Canada)
ECM/PW	EC	ECM Power Supply (QR25DE Model)
ECTS	EC	Engine Coolant Temperature Sensor
EGRC1	EC	EGR Function (QG18DE Model)
EGVC/V	EC	EGR Volume Control Valve (QG18DE Model)
EGR/TS	EC	EGR Temperature Sensor (QG18DE Model)
ENGSS	AT	Engine Speed Signal

HARNESSES

Code	Section	Wiring Diagram Name
ETC1	EC	Electric Throttle Control Function (QR25DE Model)
ETC2	EC	Throttle Control Motor Relay (QR25DE Model)
ETC3	EC	Throttle Control Motor (QR25DE Model)
F/FOG	LT	Front Fog Lamp
FLS1	EC	Fuel Level Sensor Circuit
FLS2	EC	Fuel Level Sensor Circuit
FLS3	EC	Fuel Level Sensor Circuit (Ground)
F/PUMP	EC	Fuel Pump Control
FTS	AT	A/T Fluid Temperature Sensor
FTTS	EC	Fuel Tank Temperature Sensor
FUEL	EC	Fuel Injection System Function [QG18DE (Calif. CA Model) and QR25DE Model]
FUELB1	EC	Fuel Injection System Function Bank1 [QG18DE (Except Calif. CA Model)]
FUELB2	EC	Fuel Injection System Function Bank2 [QG18DE (Except Calif. CA Model)]
HEATER	MTC	Heater System
H/LAMP	LT	Headlamp
H/MIRR	GW	Heated Mirror
HO2S1	EC	Heated Oxygen Sensor 1 (Front) (QR25DE Model)
HO2S1H	EC	Heated Oxygen Sensor 1 Heater (Front) (QR25DE Model)
HO2S2	EC	Heated Oxygen Sensor 2 (Rear) [QG18DE (Calif. CA Model) and QR25DE Model]
HO2S2H	EC	Heated Oxygen Sensor 2 Heater (Rear) [QG18DE (Calif. CA Model) and QR25DE Model]
HO2S3	EC	Heated Oxygen Sensor 3 [QG18DE (Calif. CA Model)]
HO2S3H	EC	Heated Oxygen Sensor 3 Heater [QG18DE (Calif. CA Model)]
HORN	WW	Horn
IATS	EC	Intake Air Temperature Sensor
IGN/SG	EC	Ignition Signal (QG18DE Model)
IGNSYS	EC	Ignition Signal (QR25DE Model)
ILL	LT	Illumination
INJECT	EC	Injector
INT/L	LT	Interior, Step, Spot, Vanity Mirror and Trunk Room Lamps
IVC	EC	Intake Valve Timing Control Solenoid Valve
IVCS	EC	Intake Valve Timing Control Position Sensor
KEYLES	BL	Remote Keyless Entry System
KS	EC	Knock Sensor
LOAD	EC	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., Oil, and Fuel Gauges
MIL	EC	Malfunction Indicator Lamp (QR25DE Model)
MIL/DL	EC	MIL & Data Link Connector (QG18DE Model)
MIRROR	GW	Power Door Mirror

HARNESSES

Code	Section	Wiring Diagram Name
NATS	BL	NVIS (Nissan Vehicle Immobilizer System — NATS)
NONDTC	AT	Non-detectable Items
OVRCSV	AT	Overrun Clutch Solenoid Valve
O2H1B1	EC	Heated Oxygen Sensor 1 Heater (Front) (Bank1) [QG18DE (Except Calif. CA Model)]
O2H1B2	EC	Heated Oxygen Sensor 1 Heater (Front) (Bank2) [QG18DE (Except Calif. CA Model)]
O2H2B1	EC	Heated Oxygen Sensor 2 Heater (Rear) (Bank1) [QG18DE (Except Calif. CA Model)]
O2H2B2	EC	Heated Oxygen Sensor 2 Heater (Rear) (Bank2) [QG18DE (Except Calif. CA Model)]
O2S1B1	EC	Heated Oxygen Sensor 1 (Front) (Bank1) [QG18DE (Except Calif. CA Model)]
O2S1B2	EC	Heated Oxygen Sensor 1 (Front) (Bank2) [QG18DE (Except Calif. CA Model)]
O2S2B1	EC	Heated Oxygen Sensor 2 (Rear) (Bank1) [QG18DE (Except Calif. CA Model)]
O2S2B2	EC	Heated Oxygen Sensor 2 (Rear) (Bank2) [QG18DE (Except Calif. CA Model)]
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve
PHASE	EC	Camshaft Position Sensor (PHASE)
PNP/SW	AT	Park/Neutral Position Switch
PNP/SW	EC	Park/Neutral Position Switch
POS	EC	Crankshaft Position Sensor (POS)
POWER	PG	Power Supply Routing
PRE/SE	EC	EVAP Control System Pressure Sensor
PST/SW	EC	Power Steering Oil Pressure Switch
ROOM/L	LT	Room Lamp
RP/SEN	EC	Refrigerant Pressure Sensor
SEN/PW	EC	Sensor Power Supply (QR25DE Model)
SHIFT	AT	A/T Shift Lock System
SROOF	RF	Sunroof
SRS	SRS	Supplemental Restraint System
S/SIG	EC	Start Signal
SSV/A	AT	Shift Solenoid Valve A
SSV/B	AT	Shift Solenoid Valve B
START	SC	Starting System
STOP/L	LT	Stop Lamp
SWL/S	EC	Swirl Control Valve Position Sensor [QG18DE (Calif. CA Model)]
SWL/V	EC	Swirl Control Valve [QG18DE (Calif. CA Model)]
TAIL/L	LT	Parking, License and Tail Lamps
TCCSIG	AT	A/T TCC Signal (Lock Up)
TCV	AT	Torque Converter Clutch Solenoid Valve
TLID	BL	Trunk Lid Opener
TPS	AT	Throttle Position Sensor
TPS	EC	Throttle Position Sensor
TPS1	EC	Throttle Position Sensor (QR25DE Model)
TPS2	EC	Throttle Position Sensor (QR25DE Model)
TPS3	EC	Throttle Position Sensor (QR25DE Model)
TRSA/T	AT	Turbine Revolution Sensor (QR25DE Model)

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HARNES

Code	Section	Wiring Diagram Name
TURN	LT	Turn Signal and Hazard Warning Lamps
VIAS	EC	Variable Air Induction Control System (QR25DE Model)
VEHSEC	BL	Vehicle Security System
VENT/V	EC	EVAP Canister Vent Control Valve
VSS	EC	Vehicle Speed Sensor
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)
VSSMTR	AT	Vehicle Speed Sensor MTR
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer

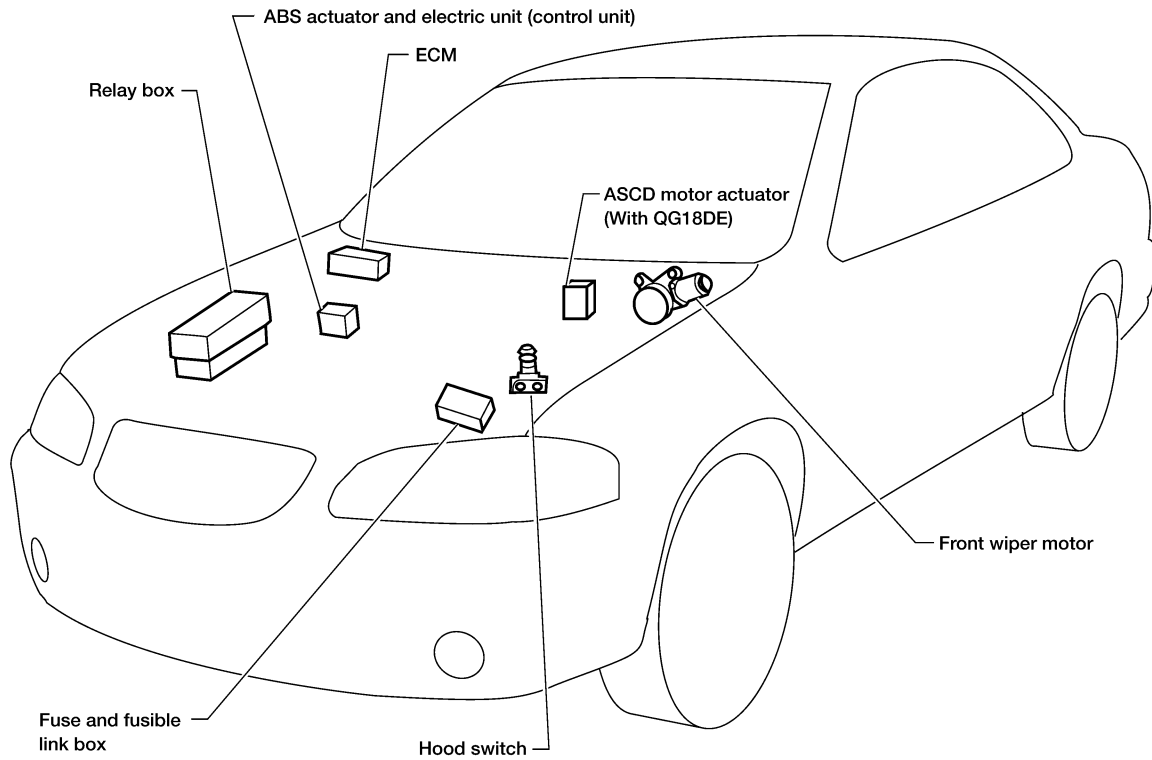
ELECTRICAL UNITS LOCATION

ELECTRICAL UNITS LOCATION

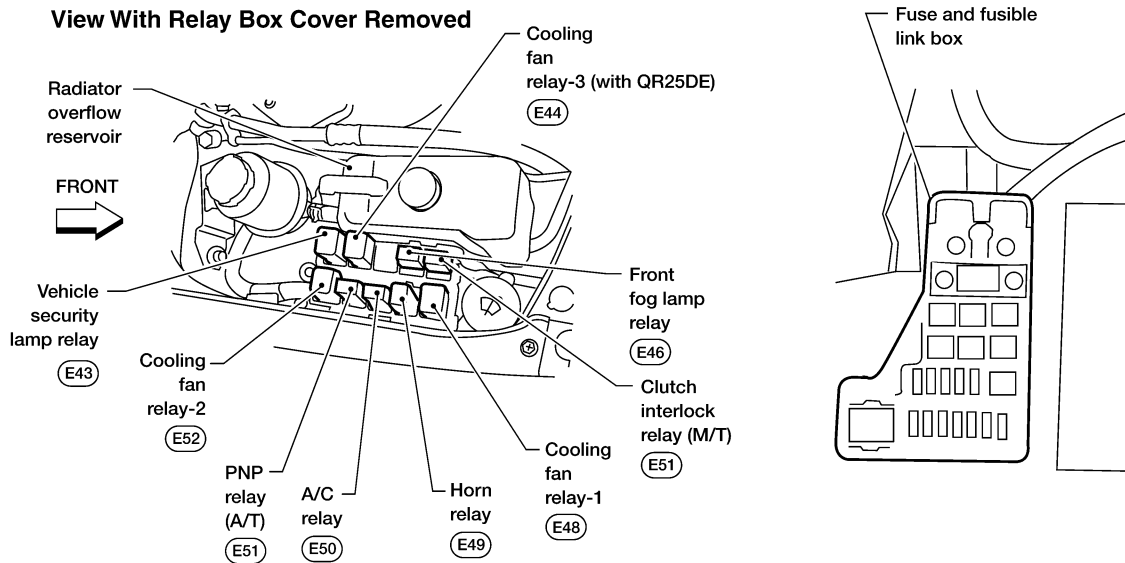
PFP:25230

Electrical Units Location ENGINE COMPARTMENT

EKS002CY



View With Relay Box Cover Removed

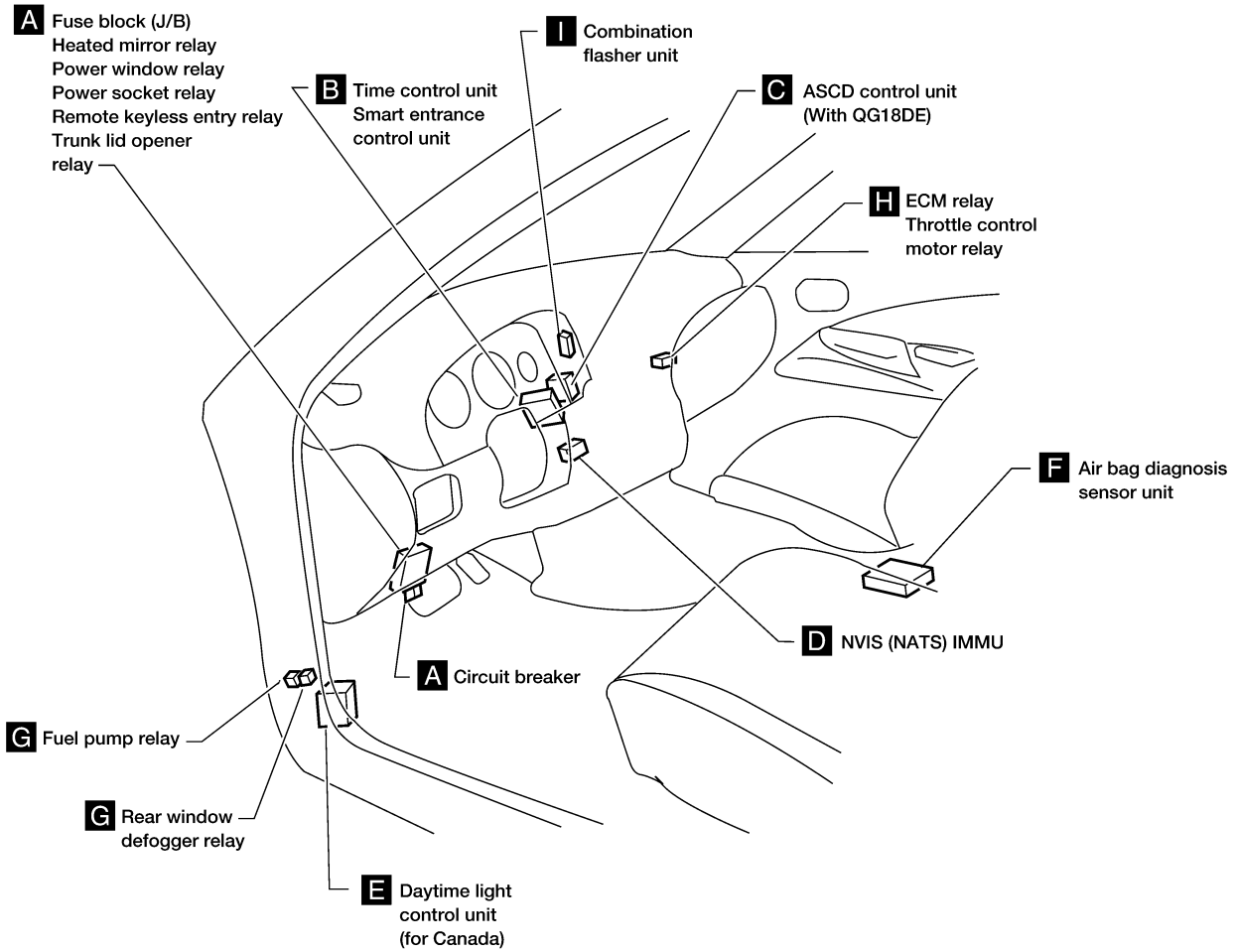


WKIA0031E

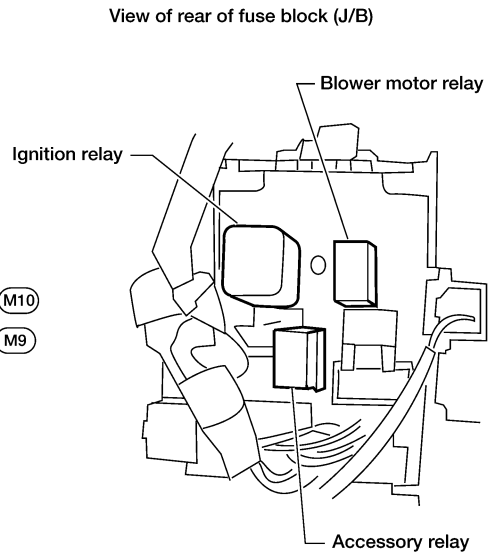
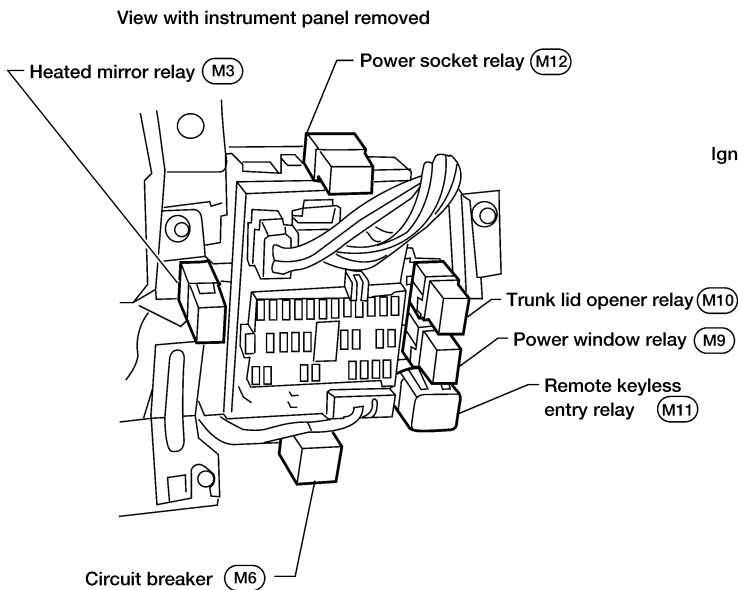
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ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT

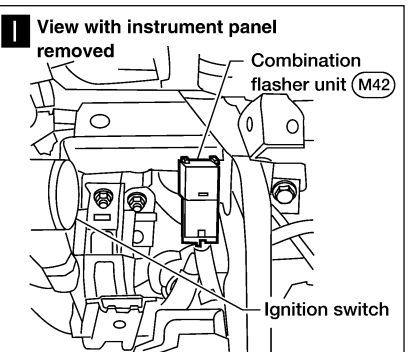
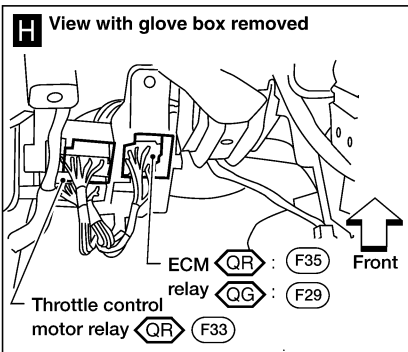
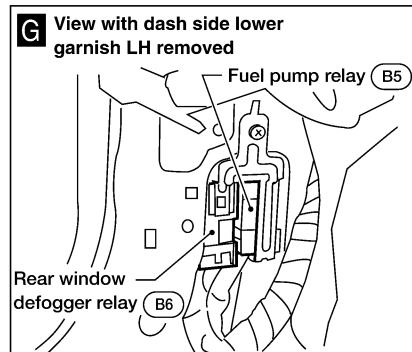
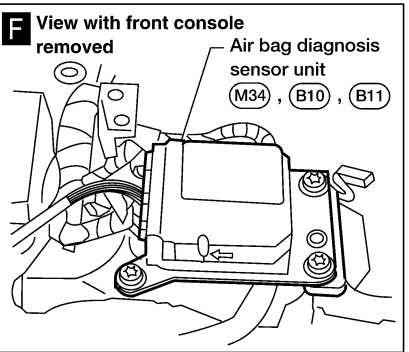
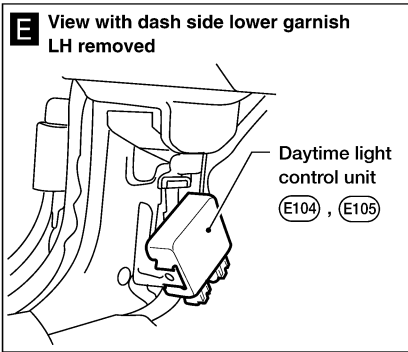
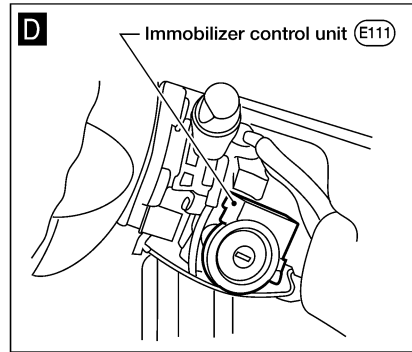
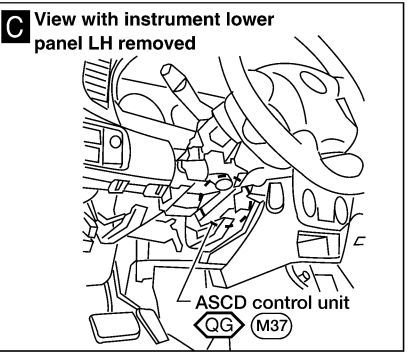
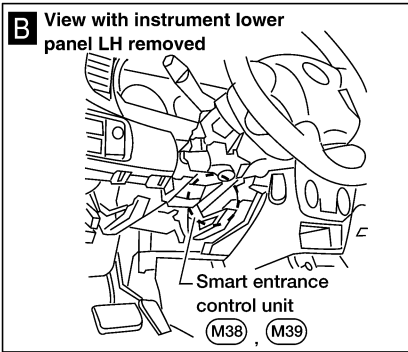
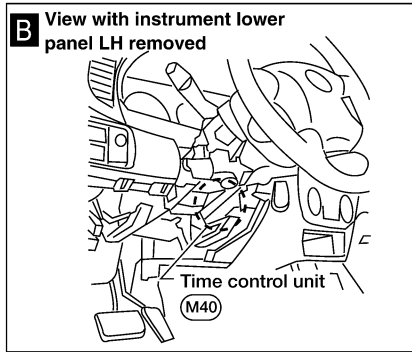


A Instrument panel LH side



WKIA0162E

ELECTRICAL UNITS LOCATION



QR : WITH QR25DE
QG : WITH QG18DE

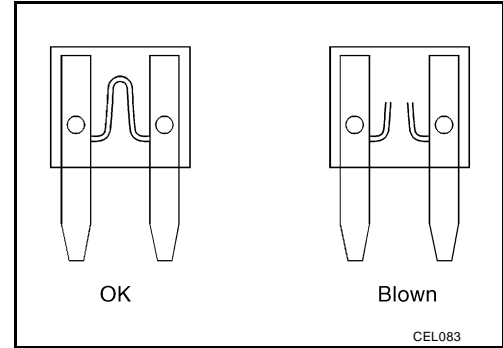
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ELECTRICAL UNITS LOCATION

Fuse

EKS002CZ

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



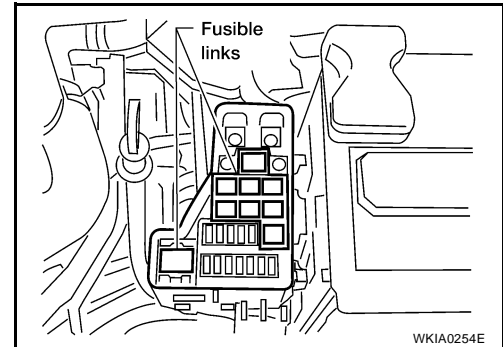
Fusible Link

EKS002D0

A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

CAUTION:

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



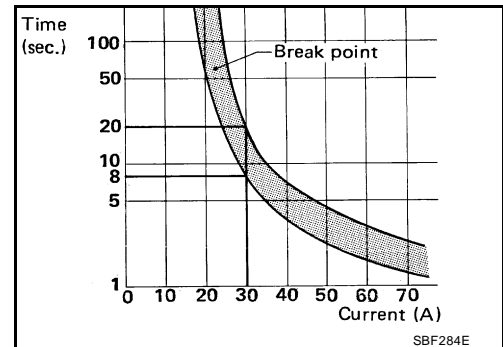
Circuit Breaker

EKS002D1

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

A circuit breaker is used for the following systems:

- Power door locks
- Power sunroof
- Power windows
- Remote keyless entry system



HARNESS CONNECTOR

HARNESS CONNECTOR

PFP:24010

Description

HARNESS CONNECTOR (TAB-LOCKING TYPE)

EKS002D2

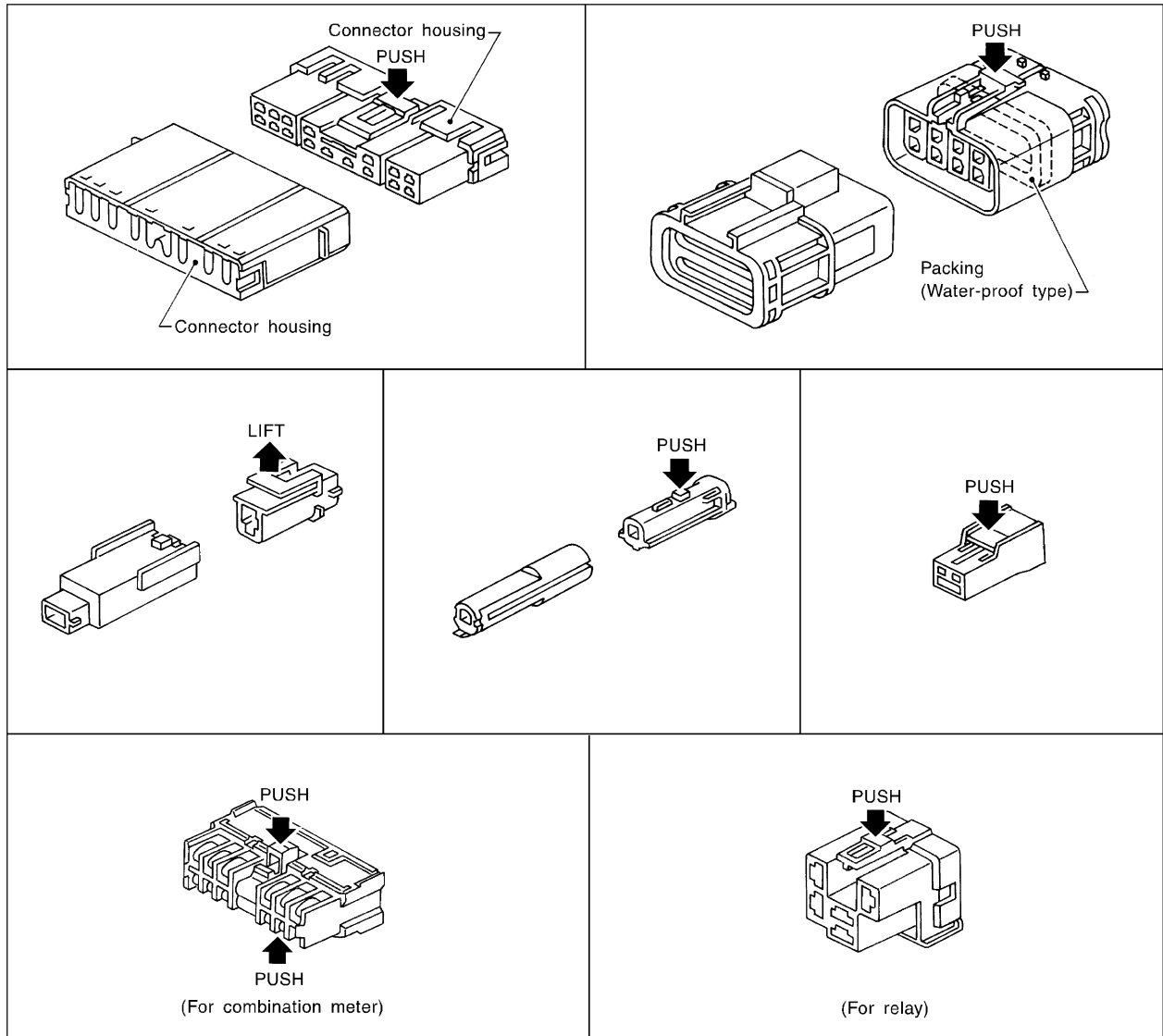
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

CAUTION:

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

[Example]



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SEL769DA

HARNESS CONNECTOR

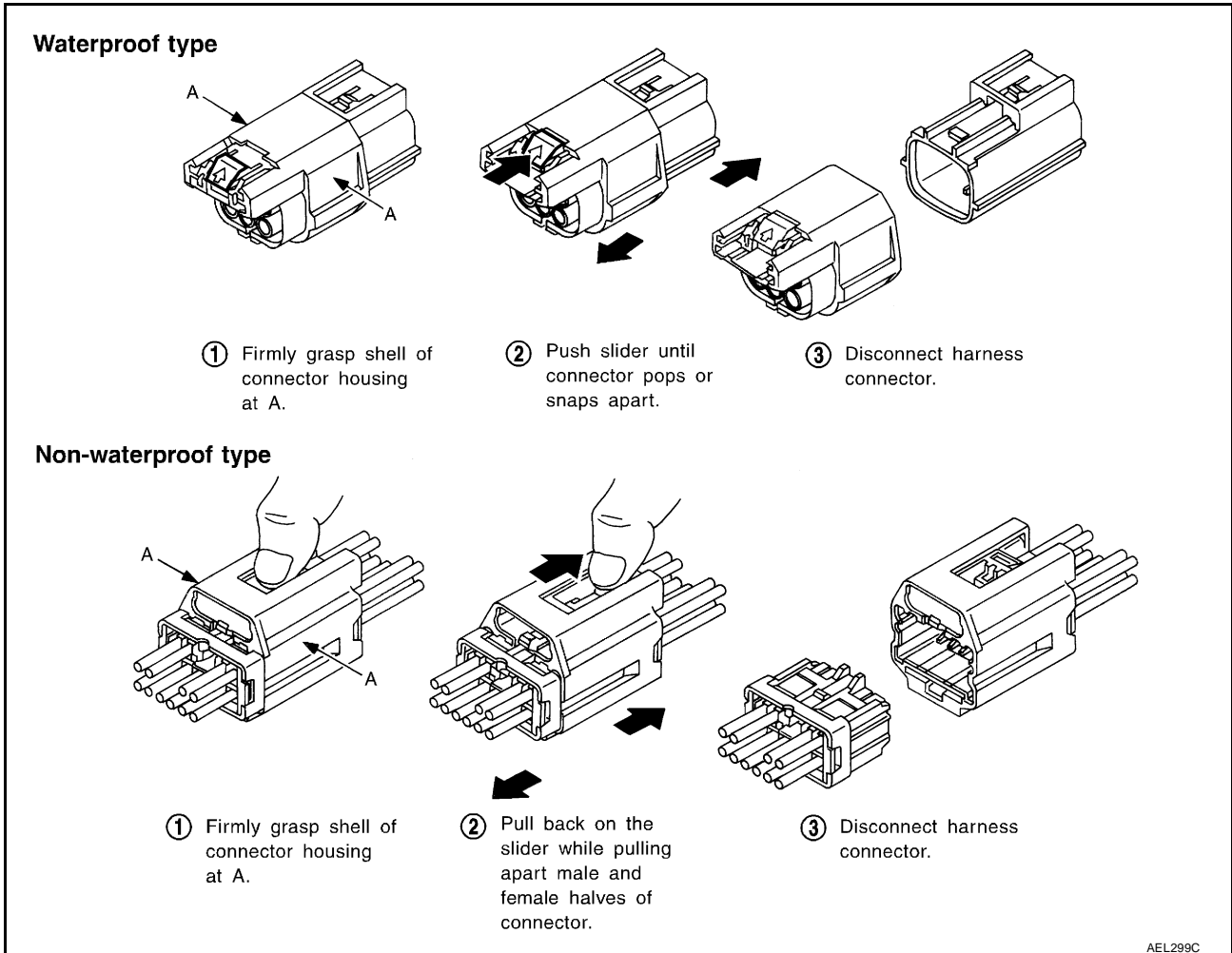
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the illustration below.

CAUTION:

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

[Example]



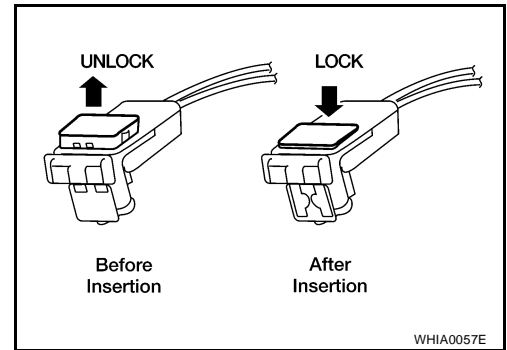
HARNESS CONNECTOR

HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

- SRS direct-connect type harness connectors are used on certain SRS components such as air bag modules and seat belt pre-tensioners.
- Always pull up to release black locking tab prior to removing connector from SRS component.
- Always push down to lock black locking tab after installing connector to SRS component. When locked, the black locking tab is level with the connector housing.

CAUTION:

- **Do not pull the harness or wires when removing connectors from SRS components.**



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JOINT CONNECTOR

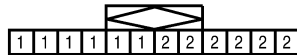
JOINT CONNECTOR

PPF:B4341

Terminal Arrangement QG18DE (EXC CALIF. CA MODEL)

EKS002D3

JOINT CONNECTOR - 2 (F24)



(BLUE)

JOINT CONNECTOR - 3 (F25)



(GRAY)

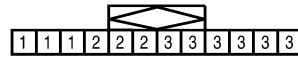
WKIA0028E

JOINT CONNECTOR

QG18DE (CALIF. CA MODEL)

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JOINT CONNECTOR - 1 (F23)



(GREEN)

JOINT CONNECTOR - 2 (F24)



(BLUE)

JOINT CONNECTOR - 3 (F25)



(GRAY)

LEL649A

JOINT CONNECTOR

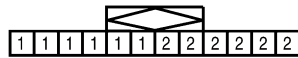
QR25DE

JOINT CONNECTOR - 1 (F1)



(GRAY)

JOINT CONNECTOR - 2 (F2)



(BLUE)

JOINT CONNECTOR - 3 (F3)



(GRAY)


ELECTRICAL UNITS

ELECTRICAL UNITS

Terminal Arrangement

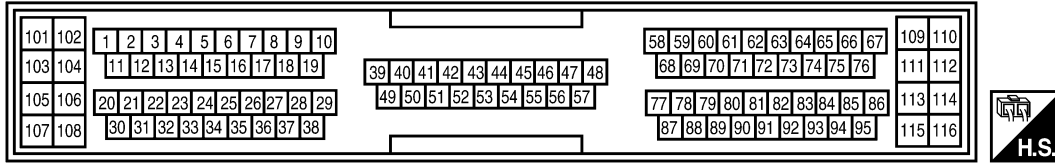
PFP:23710

EKS002D4

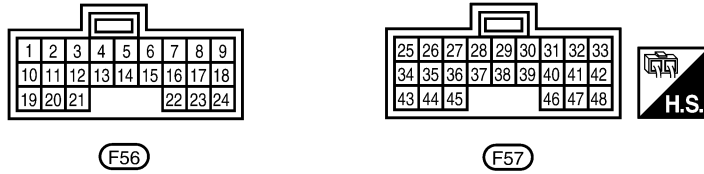
 : With QG180E


 : With QG25DE

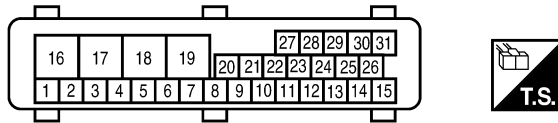
ECM  
 



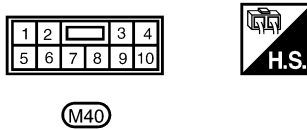
TCM (TRANSMISSION CONTROL MODULE)



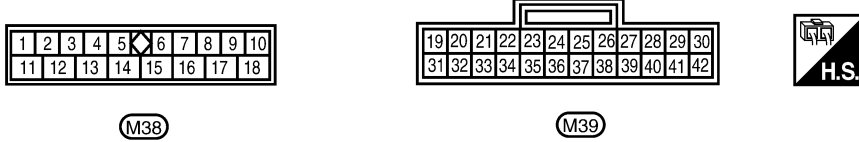
ABS ACTUATOR AND ELECTRIC UNIT
(CONTROL UNIT) 





TIME CONTROL UNIT : 



SMART ENTRANCE CONTROL UNIT : 



 : WITHOUT POWER DOOR LOCKS
 : WITH POWER DOOR LOCKS

STANDARDIZED RELAY

PFP:25230

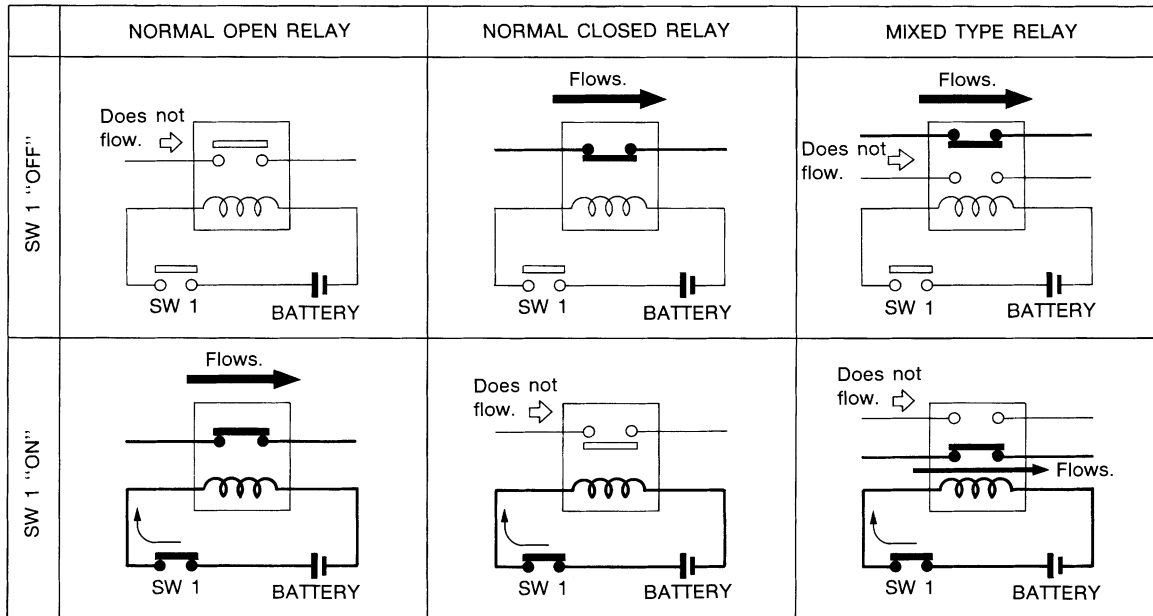
EKS002D5

STANDARDIZED RELAY

Description

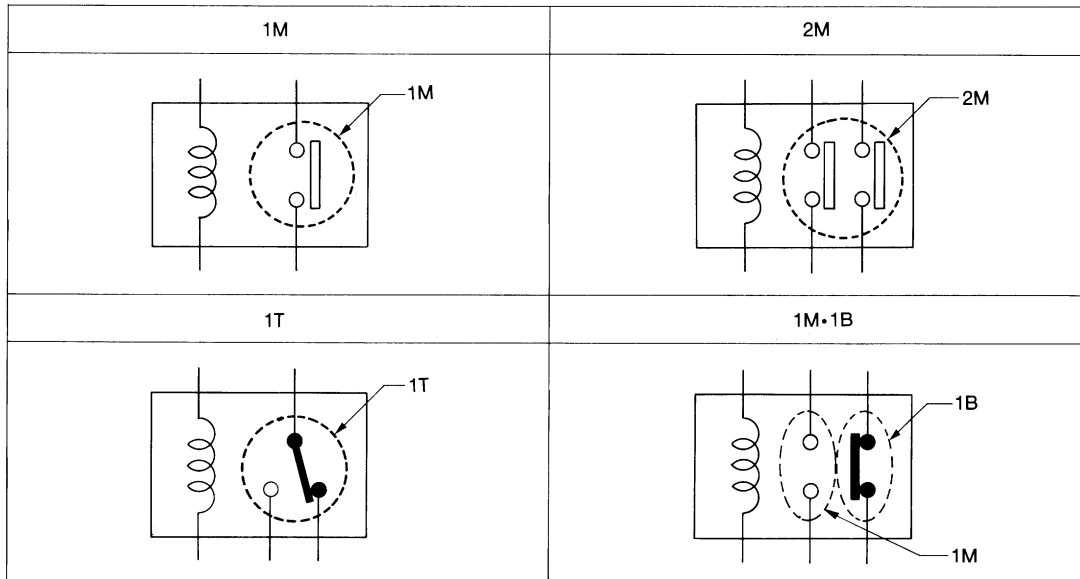
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



SEL881H

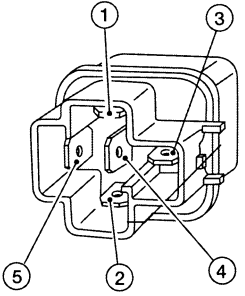
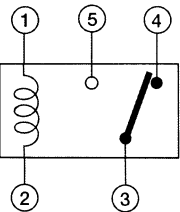
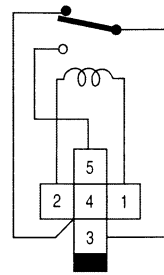
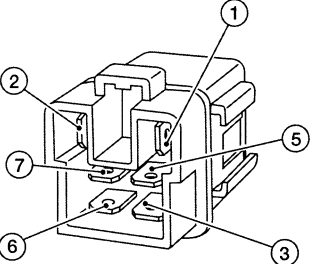
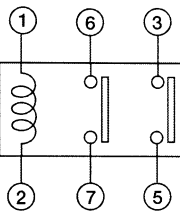
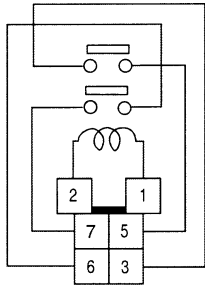
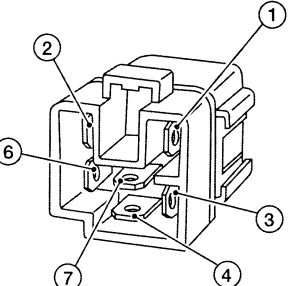
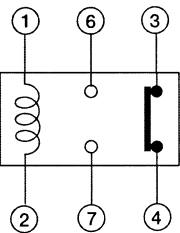
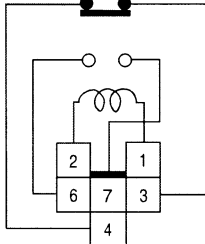
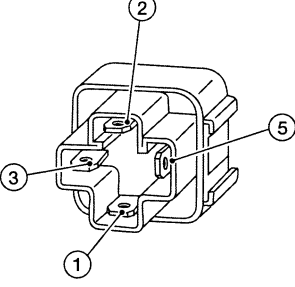
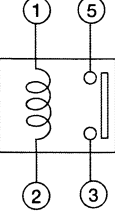
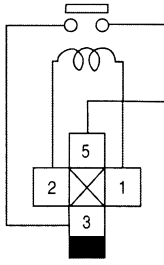
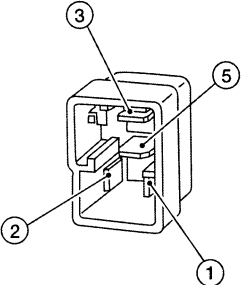
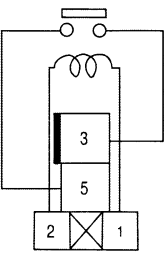
TYPE OF STANDARDIZED RELAYS



SEL882H

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

STANDARDIZED RELAY

Type	Outer view	Circuit	Connector Symbol and connection	Case color
1T				BLACK
2M				BROWN
1M-1B				GRAY
1M				BLUE OR GRAY
				

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

LEL638

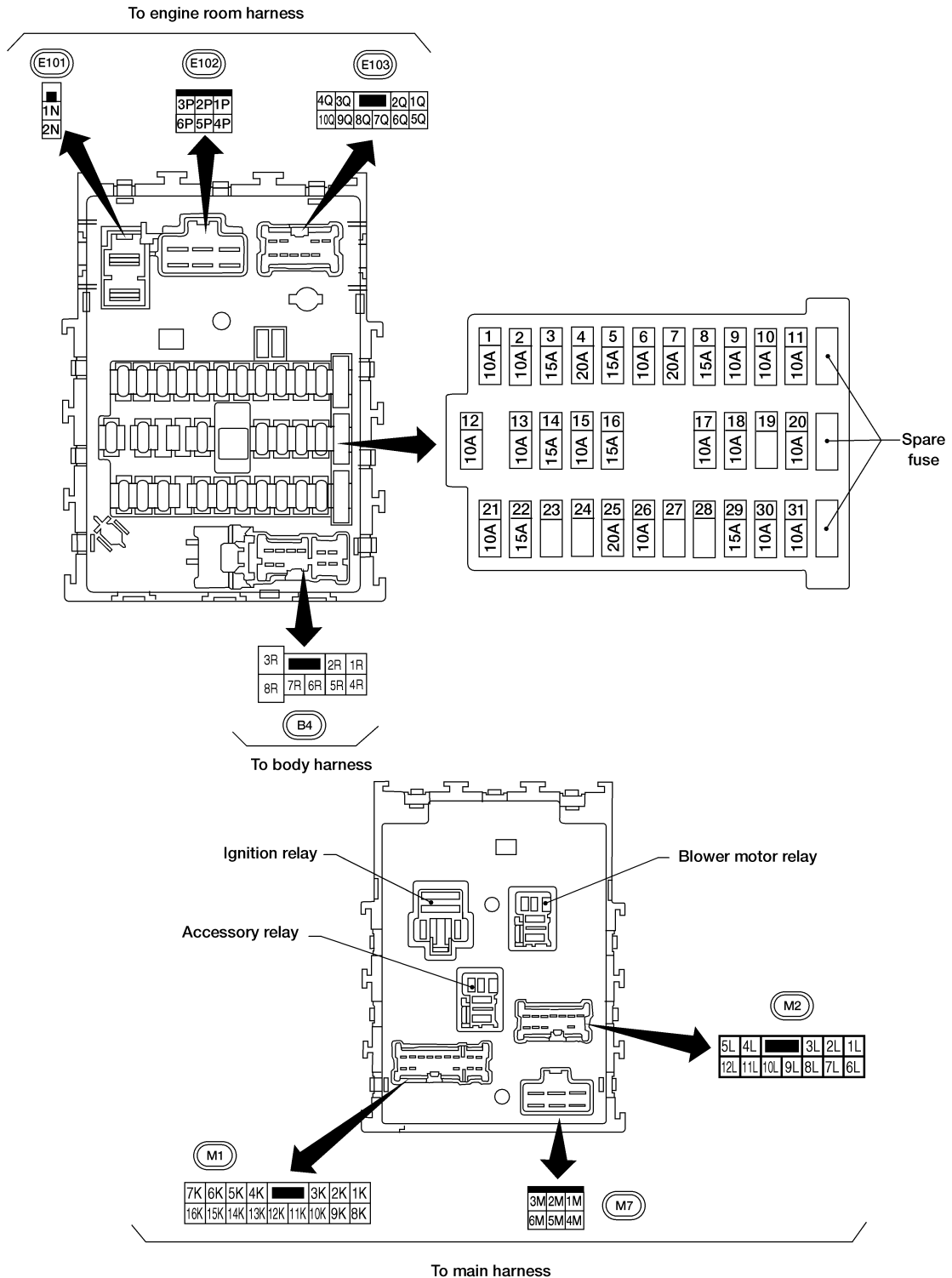
A
B
C
D
E
F
G
H
I
J
PG
L
M

FUSE BLOCK — JUNCTION BOX (J/B)

FUSE BLOCK — JUNCTION BOX (J/B) Terminal Arrangement

PF:24350

EKS002D6



WEL473



FUSE AND FUSIBLE LINK BOX

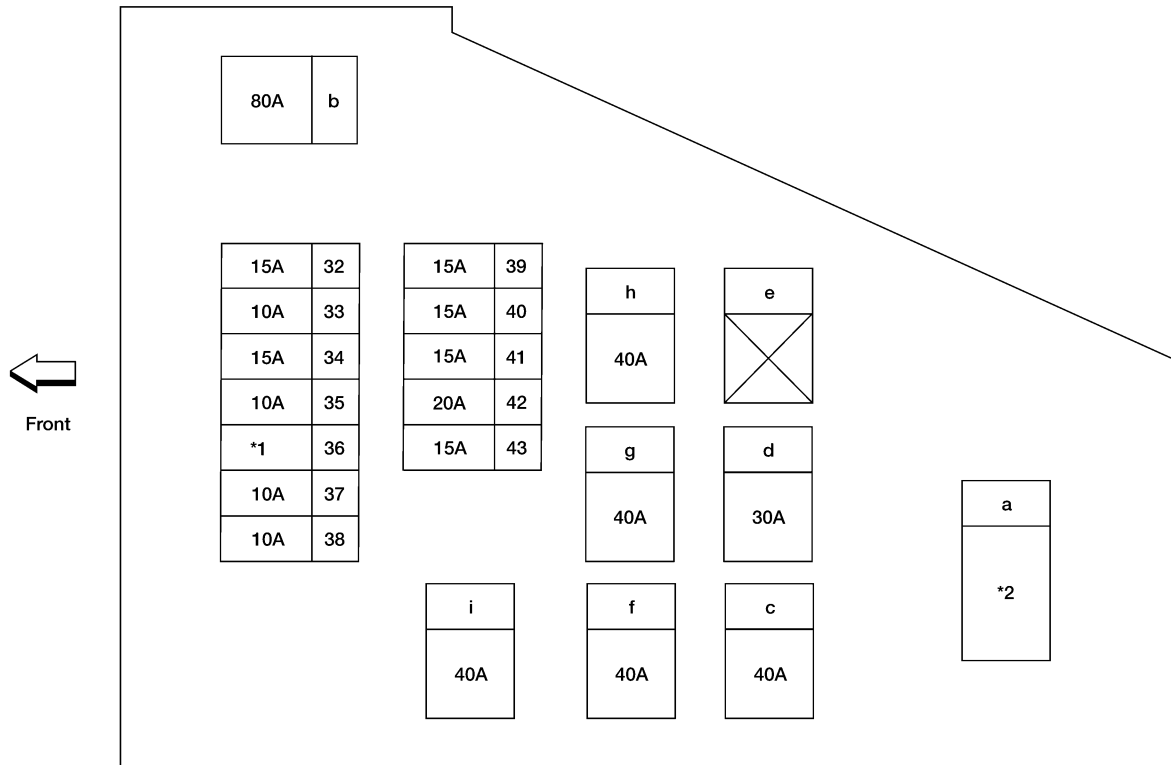
FUSE AND FUSIBLE LINK BOX

Terminal Arrangement

PFPP:24381



EKS002D7



 : With QG18DE
 : With QR25DE



No. 32 - 43 : FUSE

a - i : FUSIBLE LINK

*1  : 10A
 : 15A

*2  : 100A
 : 120A

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

PG

FUSE AND FUSIBLE LINK BOX
