

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

PRECAUTIONS

PFP:00001

Precautions for Supplemental Restraint System (SRS) “AIR BAG” and “SEAT BELT PRE-TENSIONER”

EKS0030C

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SRS and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SRS section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

Wiring Diagrams and Trouble Diagnosis

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When you read wiring diagrams, refer to the following:

- [GI-13, "How to Read Wiring Diagrams"](#), and
- [PG-8, "POWER SUPPLY ROUTING"](#) for power distribution circuit.

When you perform trouble diagnosis, refer to the following:

- [GI-9, "HOW TO FOLLOW TEST GROUPS IN TROUBLE DIAGNOSES"](#), and
- [GI-25, "How to Perform Efficient Diagnosis for an Electrical Incident"](#).

Check for any Service bulletins before servicing the vehicle.

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HARNESS CONNECTOR

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EKS003NX

HARNESS CONNECTOR

Description

HARNESS CONNECTOR (TAB-LOCKING TYPE)

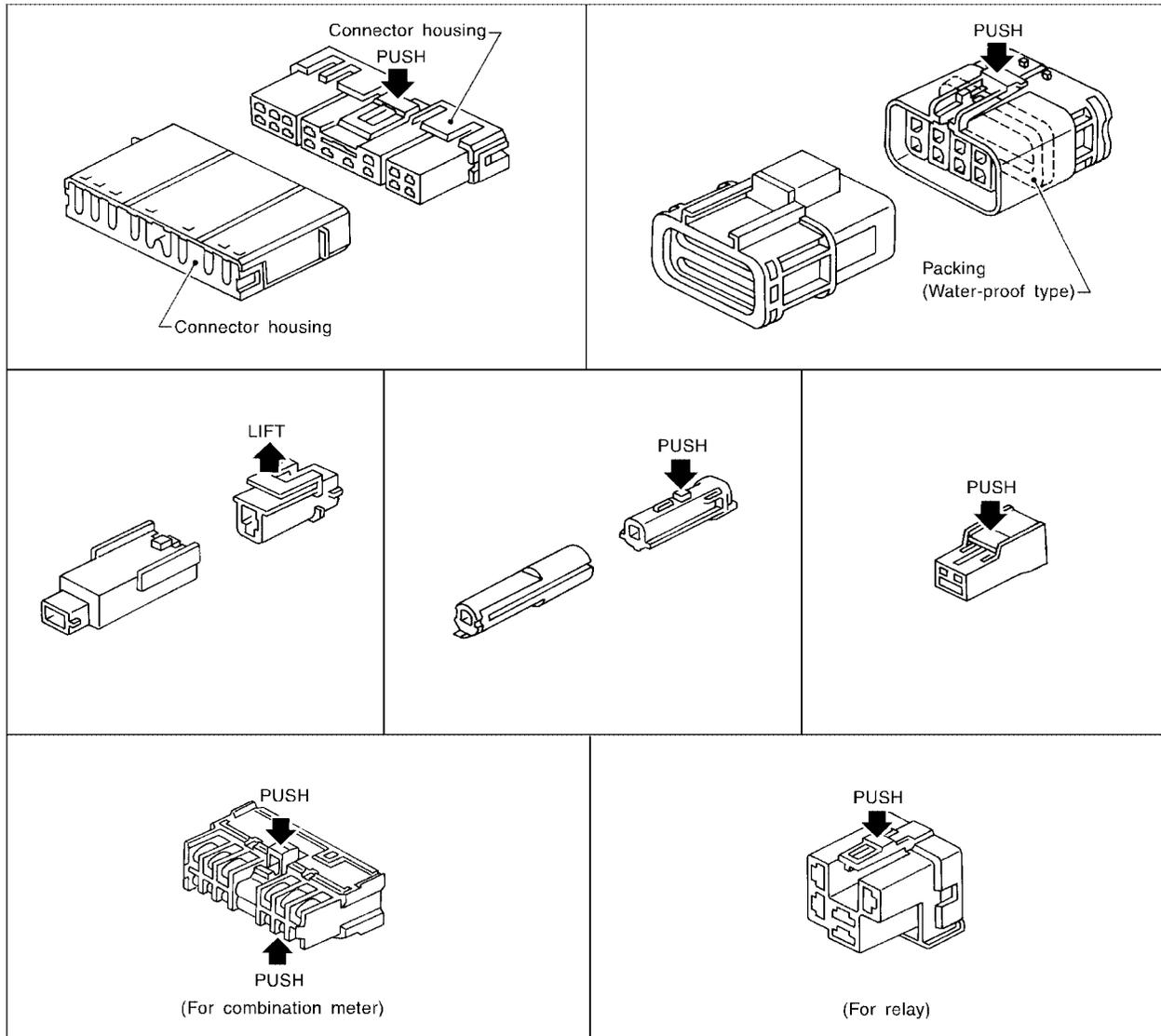
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

CAUTION:

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

[Example]



SEL769DA

HARNESS CONNECTOR

HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

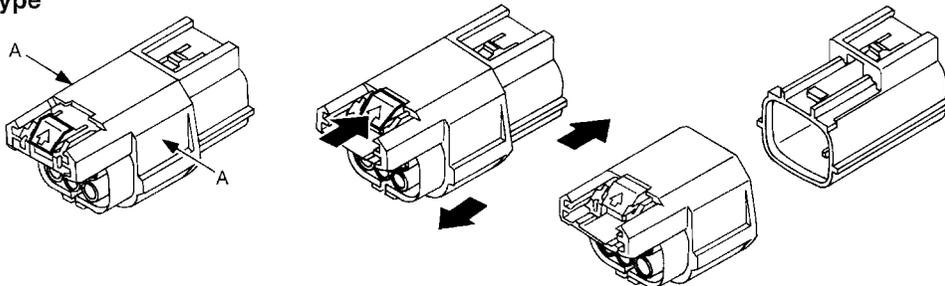
- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide-locking type connectors are disconnected by pushing or pulling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

CAUTION:

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

[Example]

Waterproof type

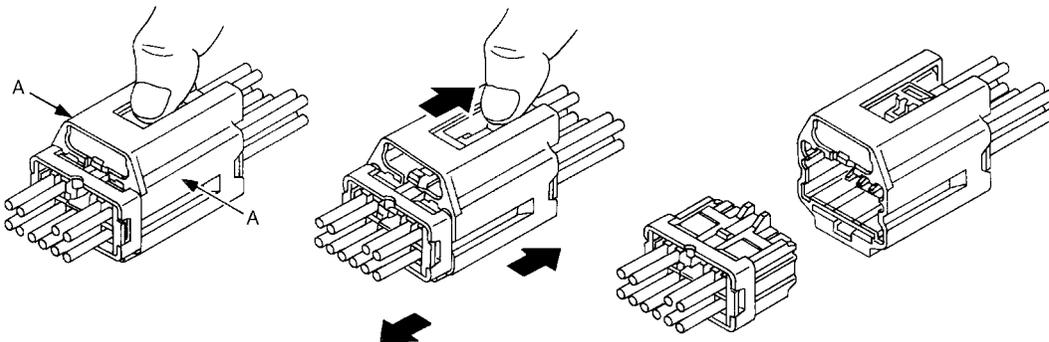


① Firmly grasp shell of connector housing at A.

② Push slider until connector pops or snaps apart.

③ Disconnect harness connector.

Non-waterproof type



① Firmly grasp shell of connector housing at A.

② Pull back on the slider while pulling apart male and female halves of connector.

③ Disconnect harness connector.

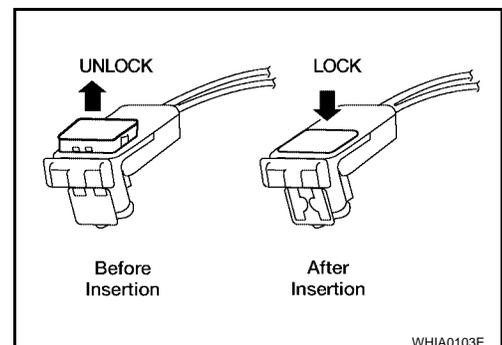
AEL299C

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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STANDARDIZED RELAY

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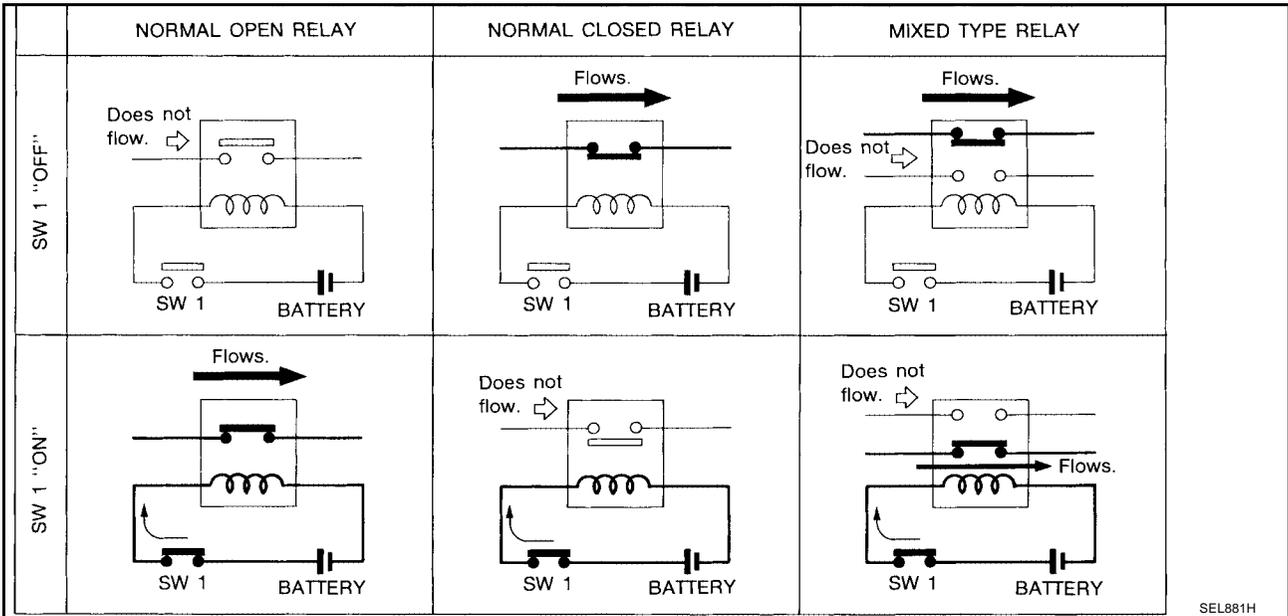
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STANDARDIZED RELAY

Description

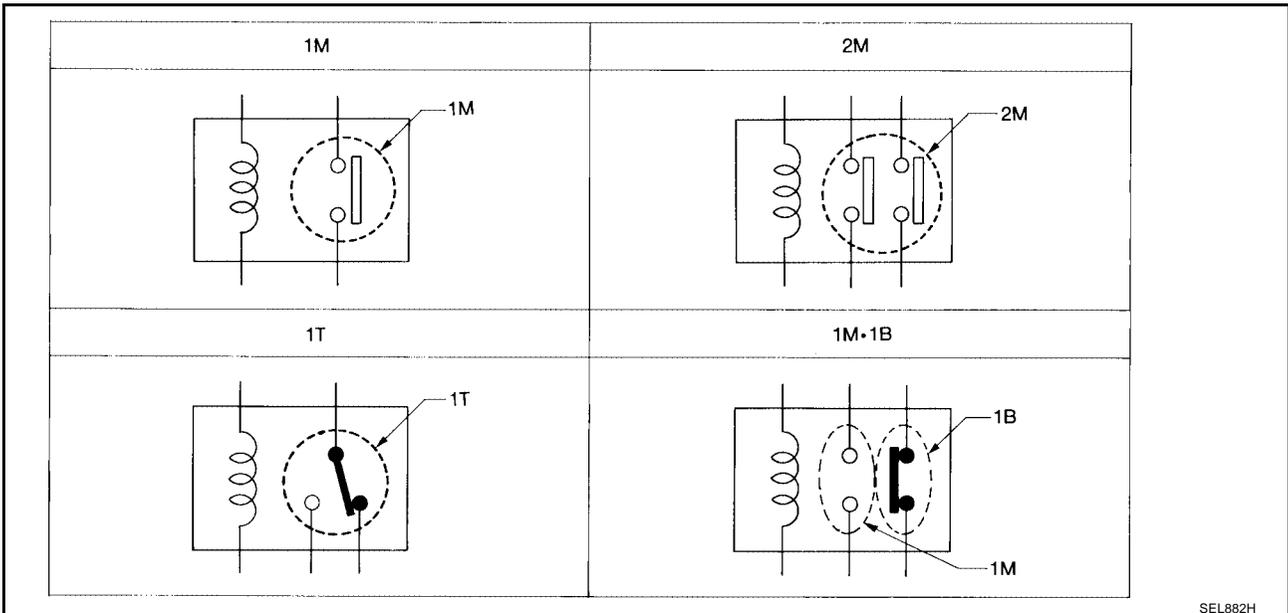
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



SEL881H

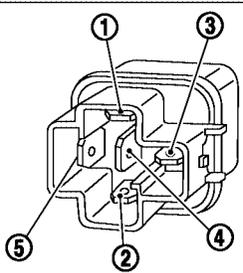
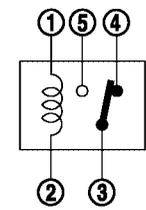
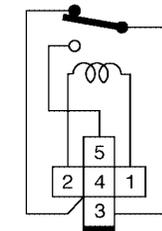
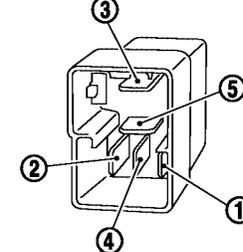
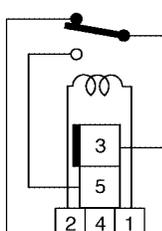
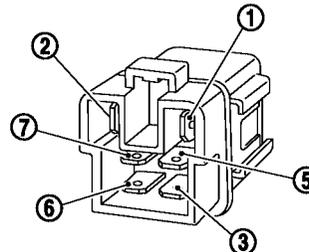
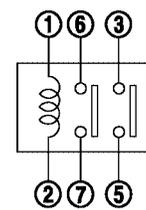
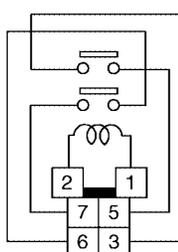
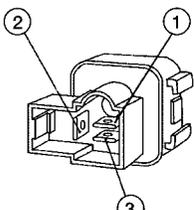
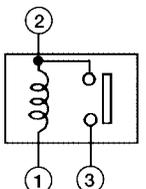
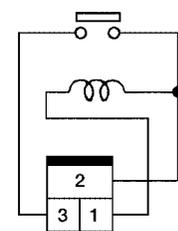
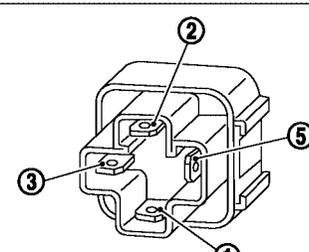
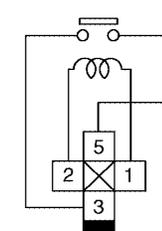
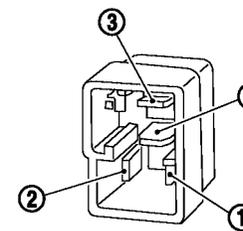
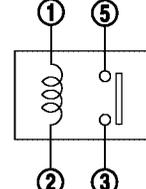
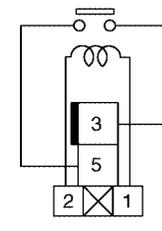
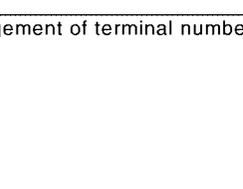
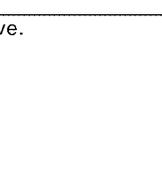
TYPE OF STANDARDIZED RELAYS



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 connector	Case color
1T				BLACK
				
2M				BROWN
1M				BLACK
				
1M				BLUE
				

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

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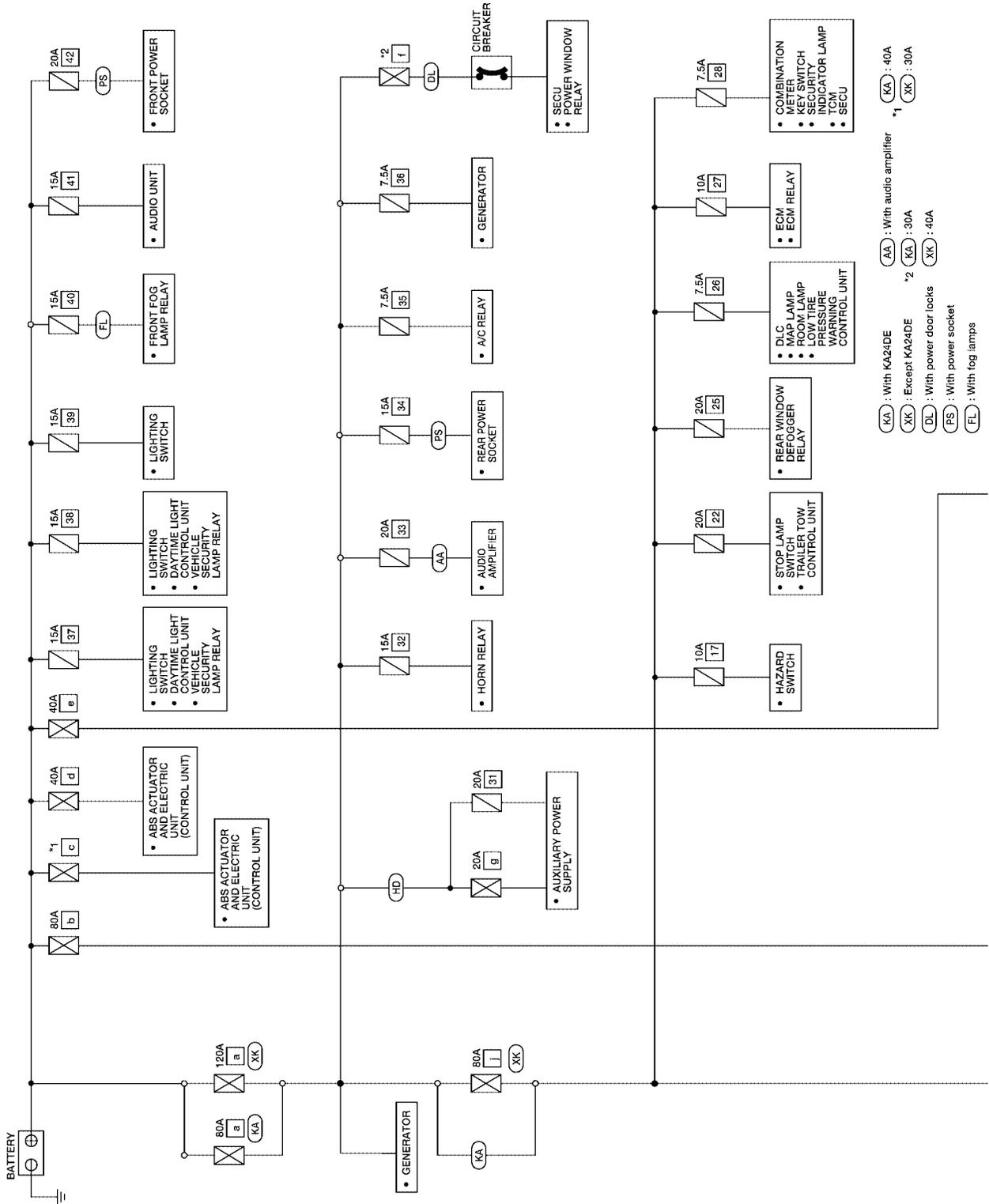
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POWER SUPPLY ROUTING

Circuit Diagram

NOTE:

For detailed ground distribution information, refer to [PG-16, "Ground Distribution"](#).



POWER SUPPLY ROUTING

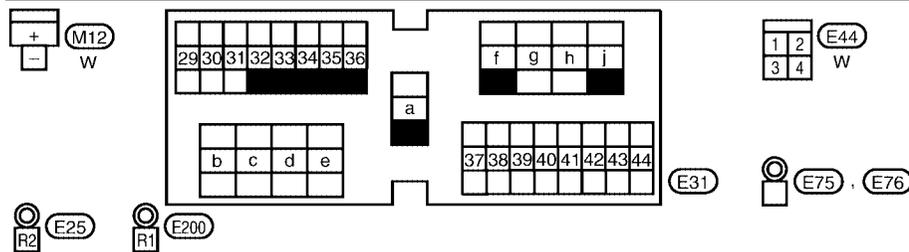
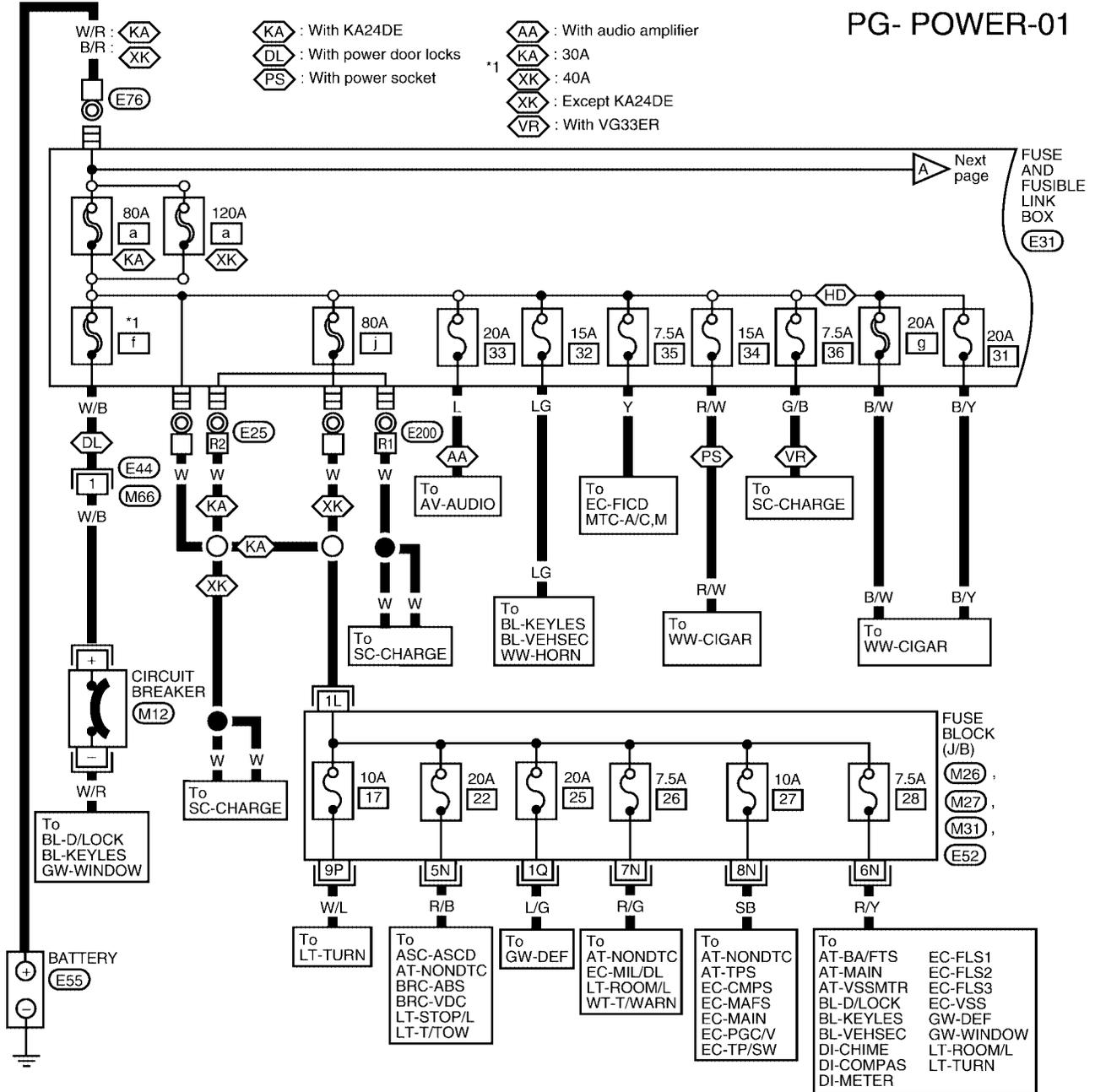
EKS0036R

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

NOTE:

For detailed ground distribution information, refer to [PG-16, "Ground Distribution"](#).

PG- POWER-01



Refer to the following.

M26, M27, M31, E52					
1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

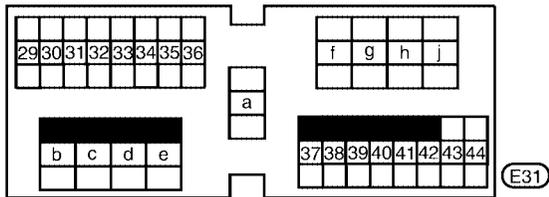
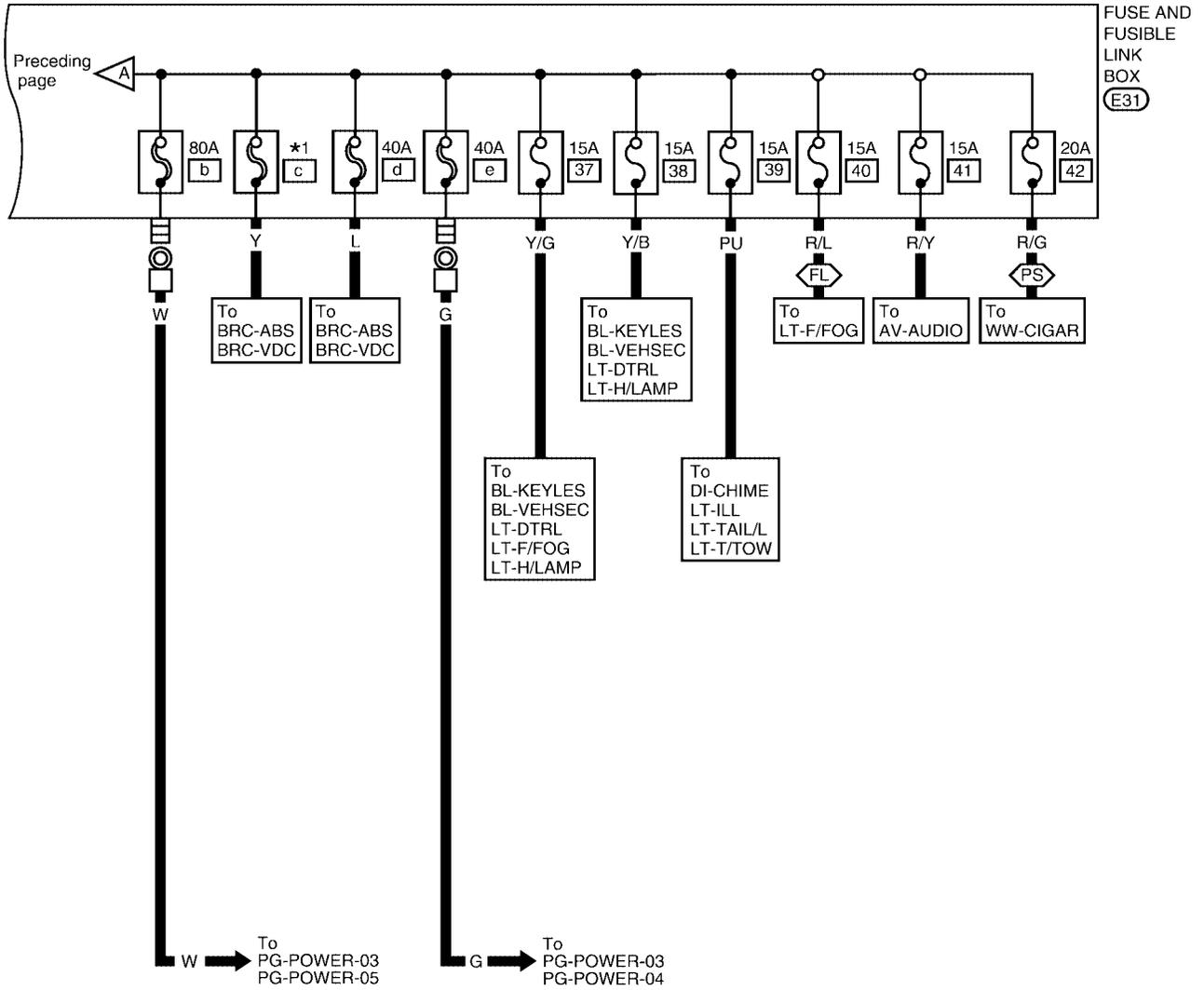
- FUSE BLOCK - JUNCTION BOX (J/B)

WKWA0818E

POWER SUPPLY ROUTING

PG-POWER-02

-  : With power socket
 -  : With fog lamps
 -  : With KA24DE
 -  : Except with KA24DE
- *1  : 40A
 -  : 30A



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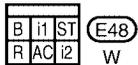
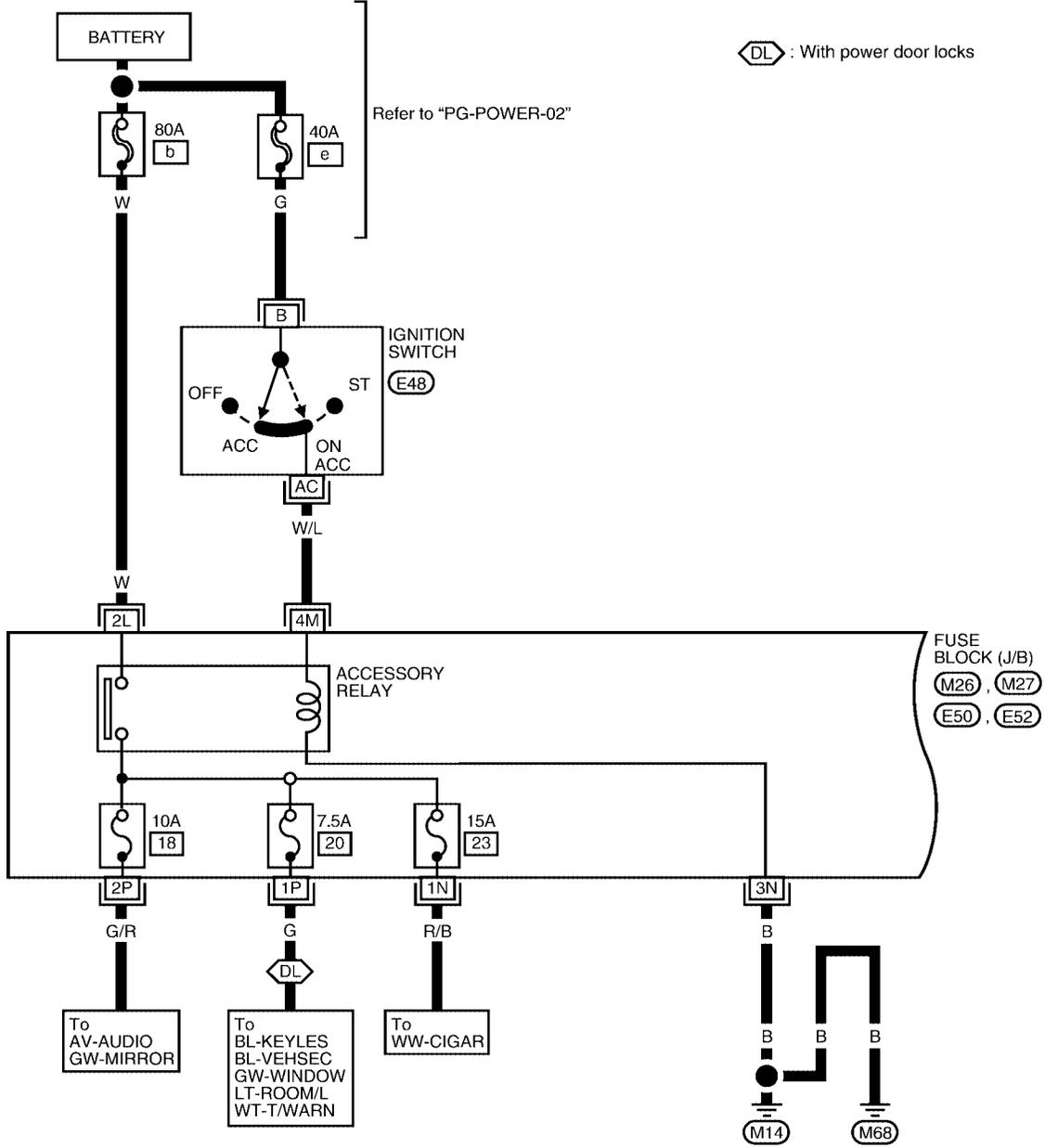
POWER SUPPLY ROUTING

ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON

NOTE:

For detailed ground distribution information, refer to [PG-16, "Ground Distribution"](#).

PG-POWER-03



Refer to the following.

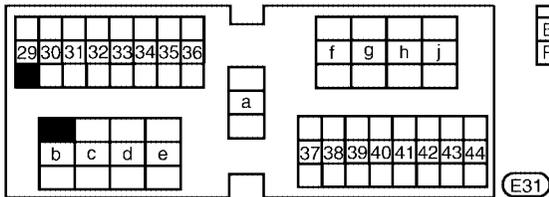
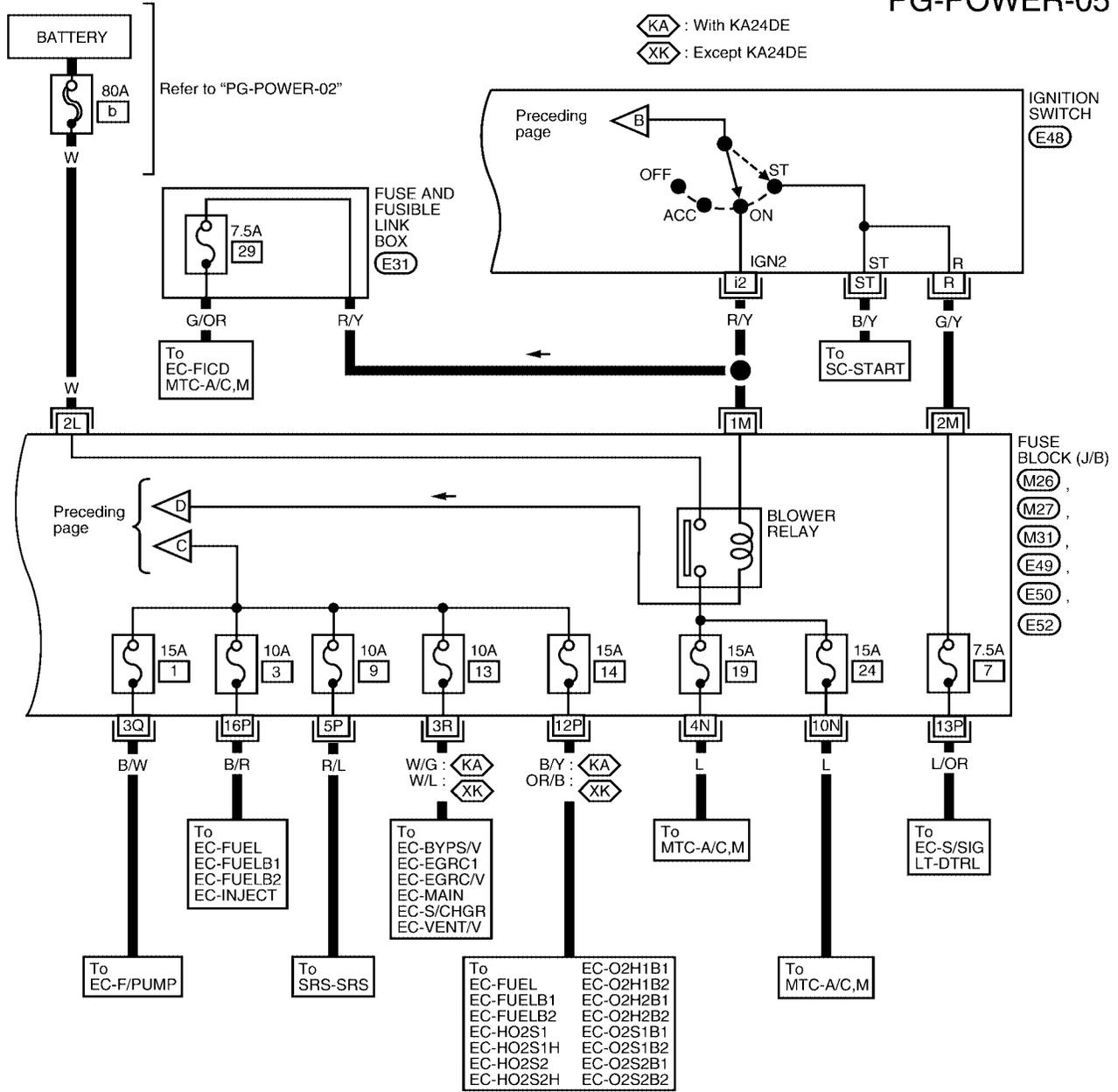
(M26), (M27), (E50), (E52)

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

FUSE BLOCK - JUNCTION BOX (J/B)

POWER SUPPLY ROUTING

PG-POWER-05



Refer to the following.

(M26)	(M27)	(M31)	(E49)
(E50)	(E52)		
1	6	11	16
2	7	12	17
3	8	13	18
4	9	14	19
5	10	15	20
			21
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-FUSE BLOCK - JUNCTION BOX (J/B)

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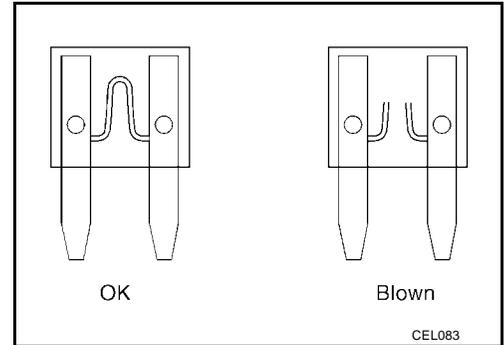
POWER SUPPLY ROUTING

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Inspection

FUSE

- If fuse is blown, be sure to eliminate cause of problem 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.

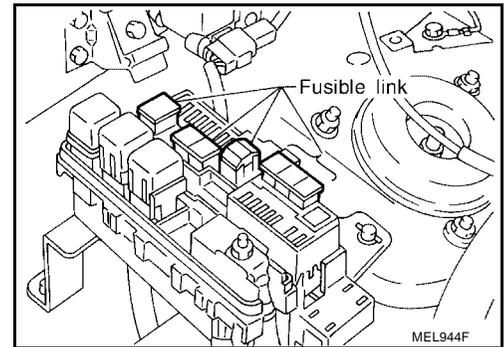


FUSIBLE LINK

A melted fusible link can be detected either by visual inspection or by feeling with fingertip. 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 problem.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other wiring harness, vinyl or rubber parts.

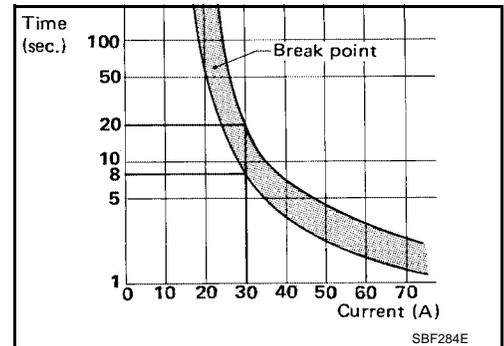


CIRCUIT BREAKER

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

Circuit breakers are used in the following systems.

- power window
- power door lock
- remote keyless entry



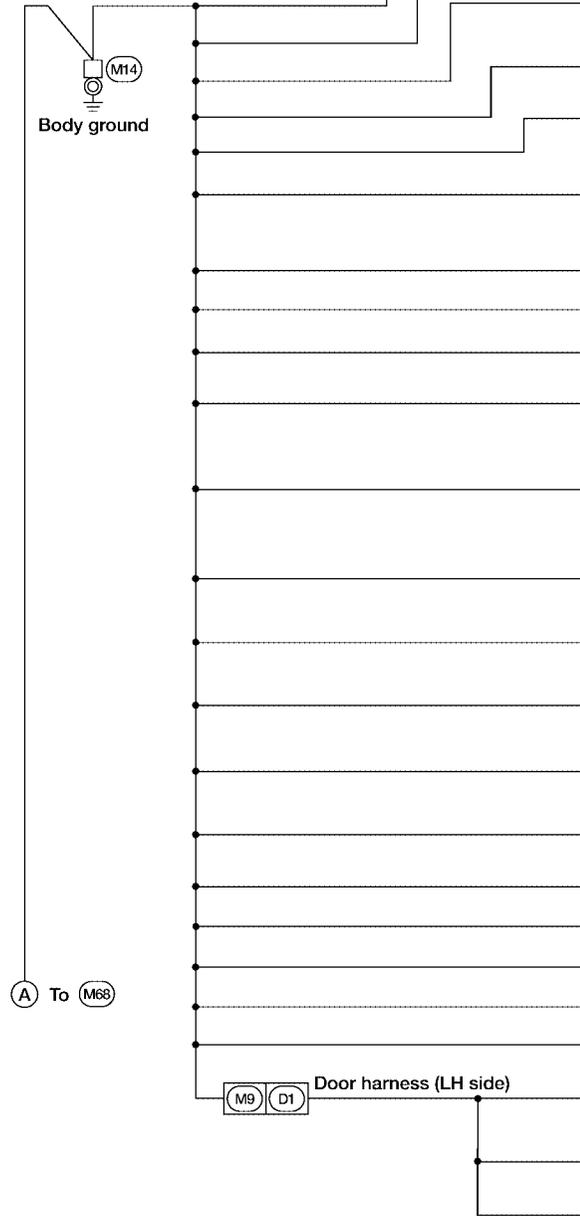
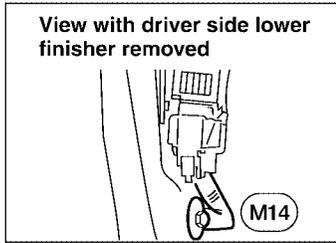
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GROUND

Ground Distribution MAIN HARNESS

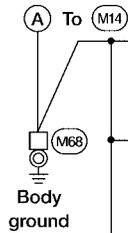
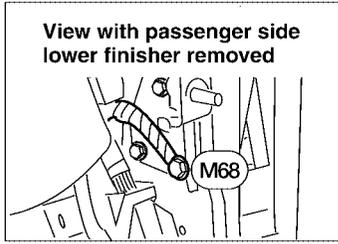
Body ground



CONNECTOR NUMBER	CONNECT TO
M5	Clutch interlock switch (Terminal No. 2) (with M/T)
M6	Vehicle security relay (Terminal No. 3) (with power door locks) (with A/T, except KA24DE)
M11	Warning chime unit (Terminal No. 8) (without power door locks)
M13	Power window relay (Terminal No. 1) (with power windows)
M19	Seat belt buckle switch LH (Terminal No. 2)
M27	Fuse block (J/B) (Terminal No. 3N) <ul style="list-style-type: none"> • Accessory relay • Blower relay • Ignition relay
M28	Illumination control switch (Terminal No. 5)
M32	Data link connector (Terminal No. 4)
M35	A/T device (shift lock) (Terminal No. 1) (with A/T)
M35	A/T device (overdrive control switch) (Terminal No. 5) (with A/T)
M38	Combination meter (Terminal No. 13) <ul style="list-style-type: none"> • Four wheel drive indicator • Turn signal indicators • ABS warning lamp
M76	ATP relay (Terminal Nos. 2 and 4) (with 4-wheel drive and A/T)
M85	Rear window defogger timer (Terminal No. 4) (without power door locks)
M89	Rear wiper switch (Terminal No. 3) (with rear wiper)
M11	Smart entrance control unit (Terminal No. 43) (with power door locks)
M112	Smart entrance control unit (Terminal No. 64) (with power door locks)
M114	Air bag diagnosis sensor unit (Terminal No. 2)
M119	ASCD control unit (Terminal No. 17) (with ASCD)
M131	Seat belt buckle switch RH (Terminal No. 2)
M145	Steering angle sensor (Terminal No. 1)
M146	VDC off switch (Terminal No. 1)
D7	Main power window and door lock/unlock switch (with power door locks) (Terminal No. 10)
D9	Front door key cylinder switch LH (with power door locks) (Terminal No. 2)
D10	Door mirror switch (Terminal No. 3)

GROUND

Body ground



CONNECTOR NUMBER	CONNECT TO
(M38)	Combination meter (high beam indicator) (Terminal No. 10)
(M39)	Combination meter (Terminal No. 33) • Air bag warning lamp • Fuel gauge • Speedometer • Tachometer • Water temperature gauge
(M45)	Combination flasher unit
(M52)	Cigarette lighter socket
(M57)	Fan switch (Terminal No. 6)
(M60)	Intake sensor
(M95)	Air control (Terminal No. 8)
(M128)	ASCD relay (Terminal No. 2)
(M132)	Audio amplifier (Terminal Nos. 4 and 11)
(M143)	Low tire pressure warning control unit (Terminal No. 11)
(M147)	Can converter (Terminal No.10)
(M172)	Front power socket-1
(M173)	Front power socket-2
(R4)	Map lamp
(R5)	Compass and thermometer (Terminal No. 2)
(D107)	Front door lock and unlock switch RH (Terminal No. 4) (with power door locks)

(M54) (M171) Console harness

(M2) (R1) Room lamp harness

(M63) (D101) Door harness (RH side)

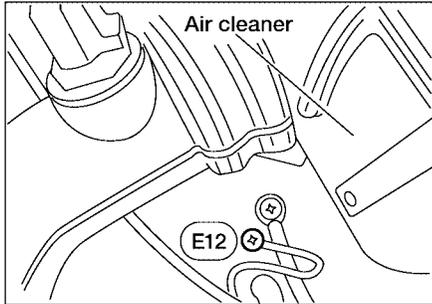
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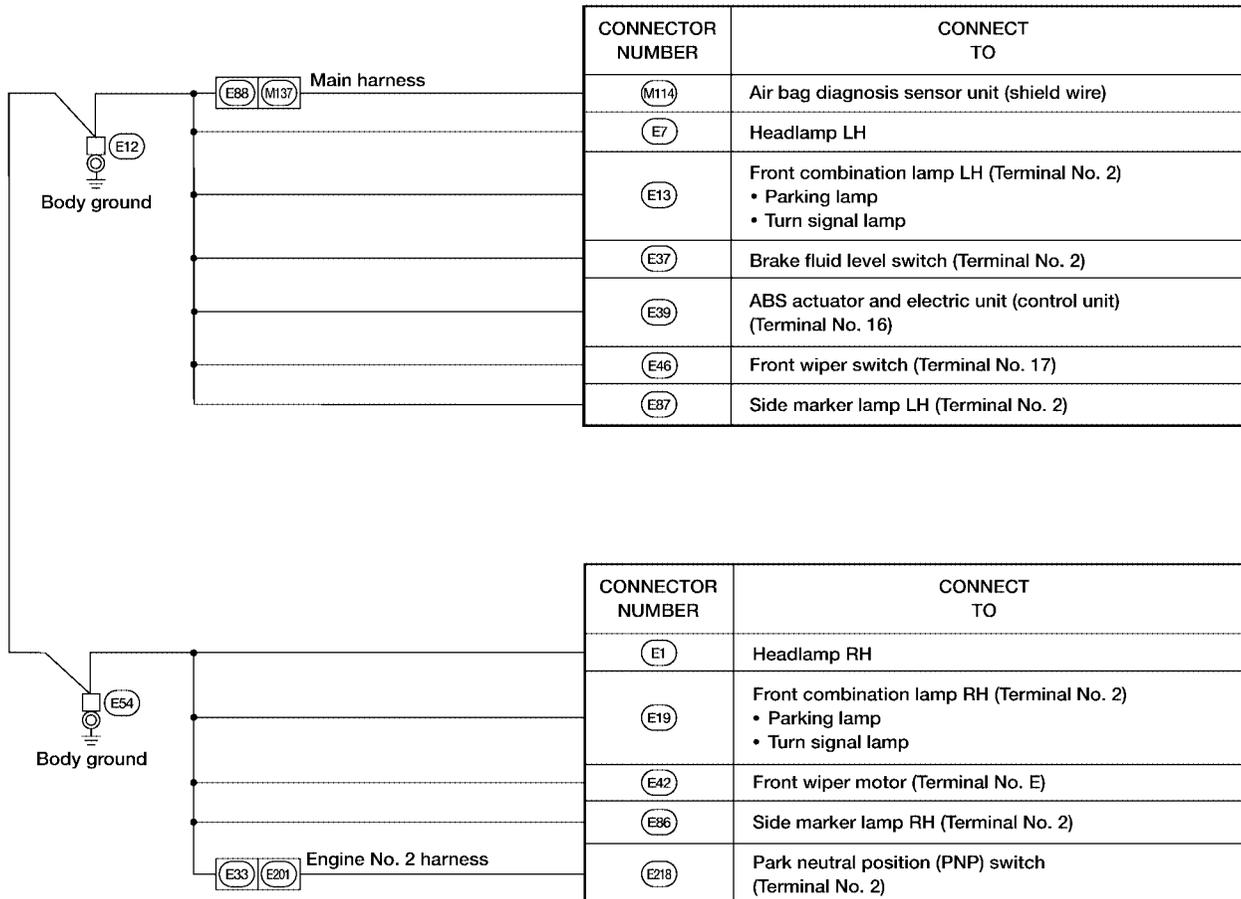
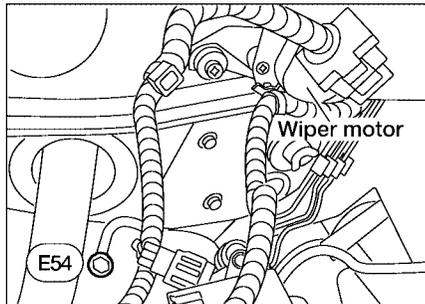
GROUND

ENGINE ROOM HARNESS KA24DE

Body ground



Body ground

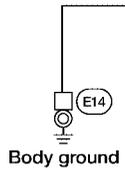
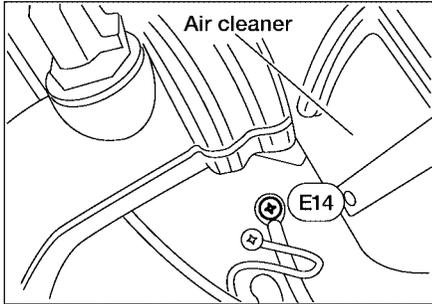


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Body ground



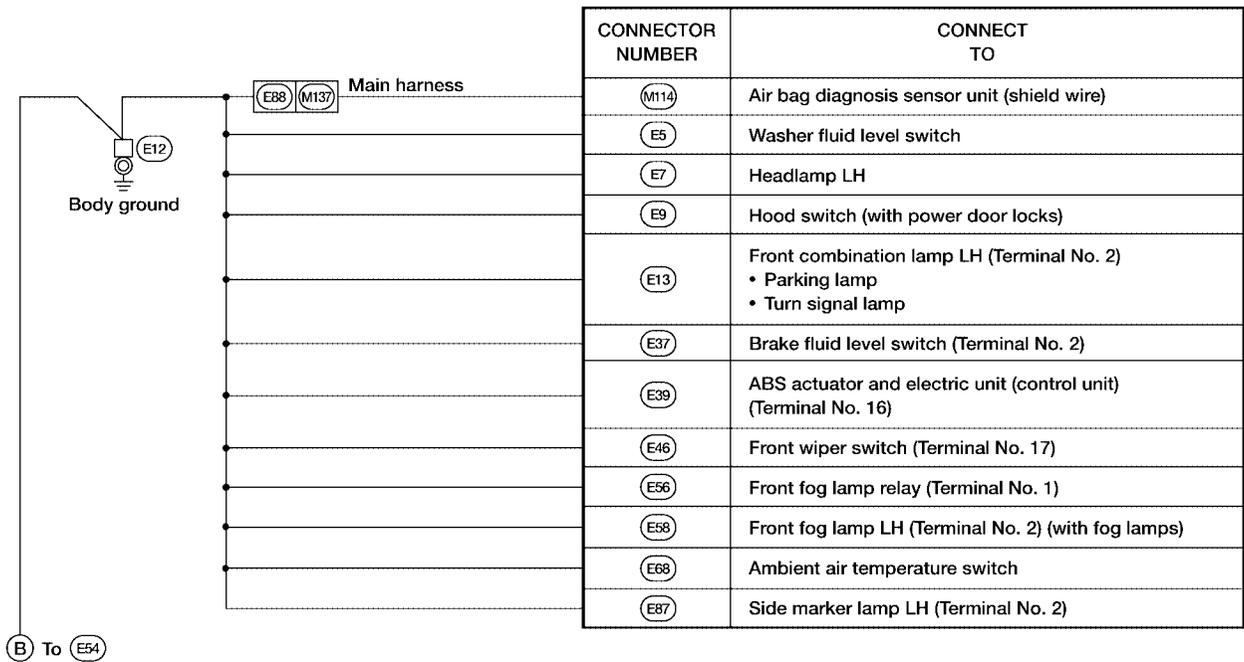
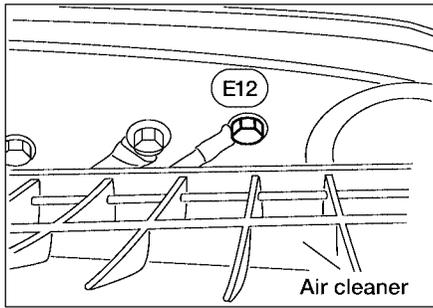
CONNECTOR NUMBER	CONNECT TO
E39	ABS actuator and electric unit (control unit) (Terminal No. 47)

WKWA0331E

GROUND

VG33E and VG33ER

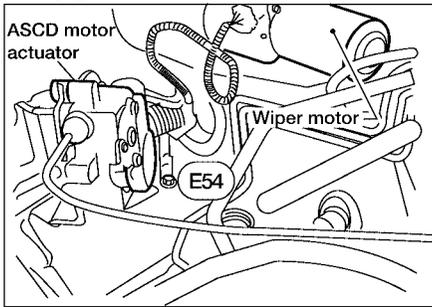
Body ground



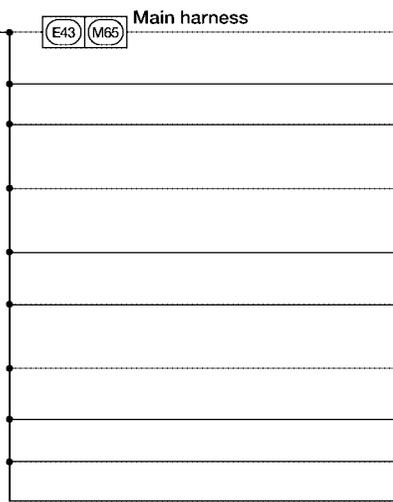
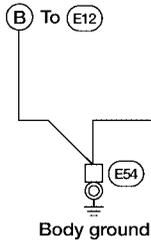
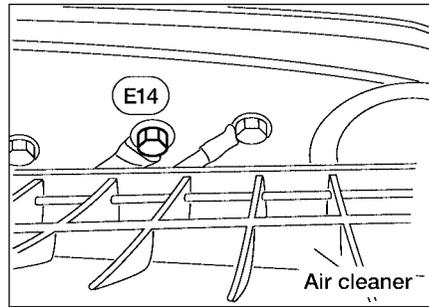
WKWA0960E

GROUND

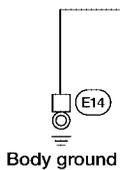
Body ground



Body ground



CONNECTOR NUMBER	CONNECT TO
(M6)	Vehicle security relay (Terminal No. 4) (with vehicle security system)
(E1)	Headlamp RH
(E17)	Daytime light control unit (Terminal No. 9) (for Canada)
(E19)	Front combination lamp RH (Terminal No. 2) • Parking lamp • Turn signal lamp
(E22)	Vehicle security lamp relay (Terminal No. 2)
(E27)	Park/neutral position (PNP) relay (Terminal No. 1) (with A/T)
(E27)	Park/neutral position (PNP) relay (Terminal No. 6) (with A/T)
(E42)	Front wiper motor (Terminal No. E)
(E57)	Front fog lamp RH (Terminal No. 2) (with fog lamps)
(E86)	Side marker lamp RH (Terminal No. 2)



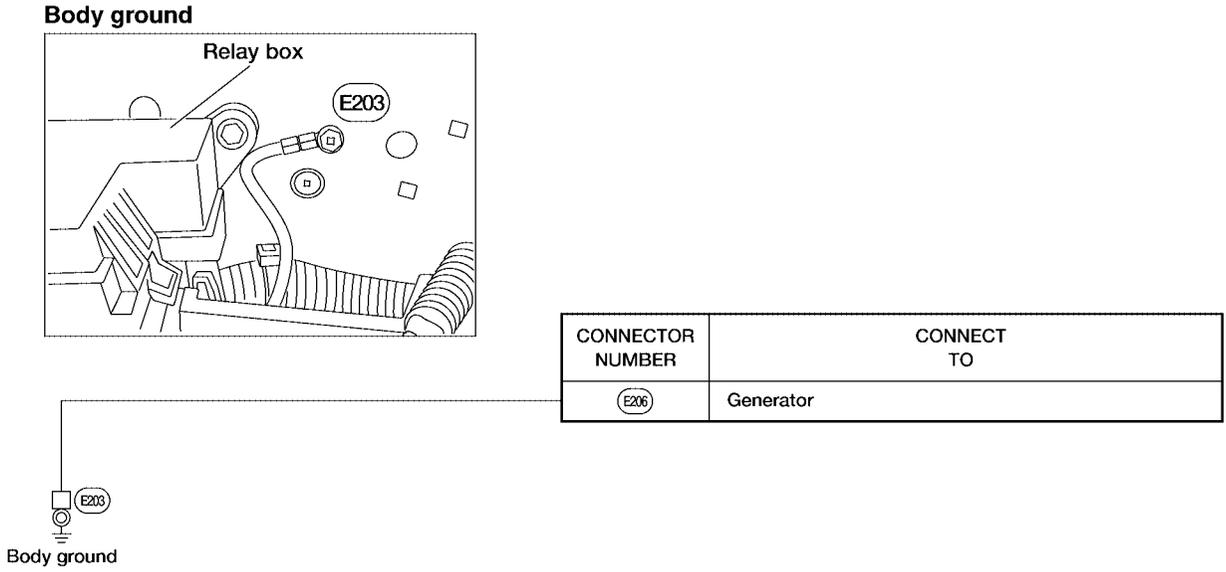
CONNECTOR NUMBER	CONNECT TO
(E39)	ABS actuator and electric unit (control unit) (Terminal No. 47)

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WKWA0333E

GROUND

ENGINE NO. 2 HARNESS KA24DE



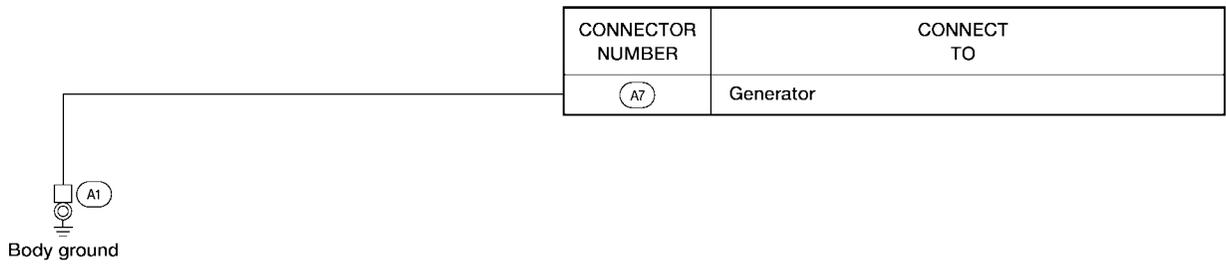
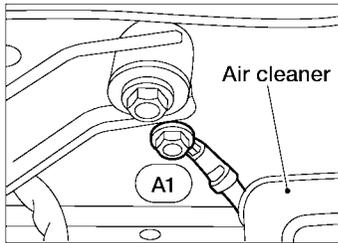
AEL710C

GROUND

GENERATOR HARNESS VG33E and VG33ER

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Body ground

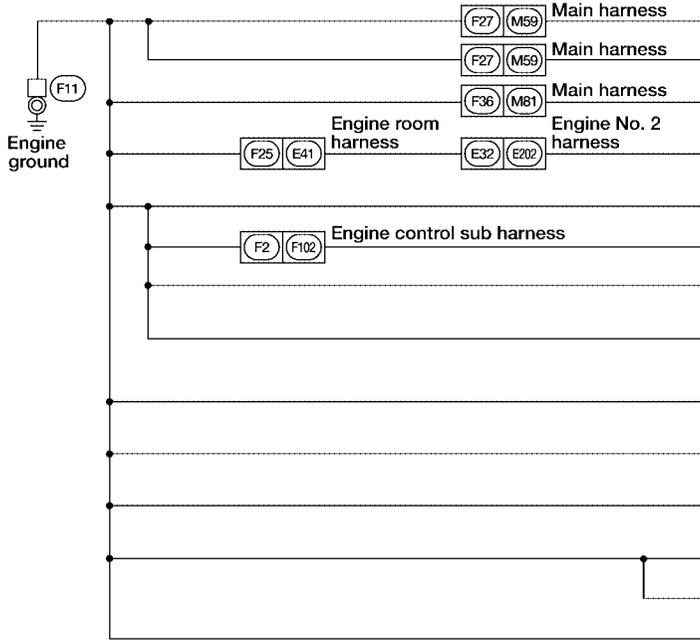
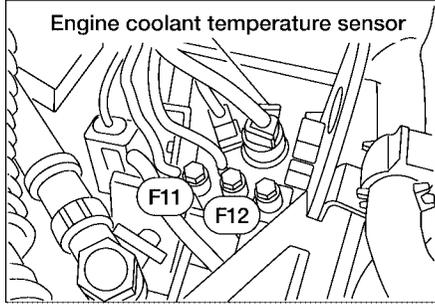


AEL697C

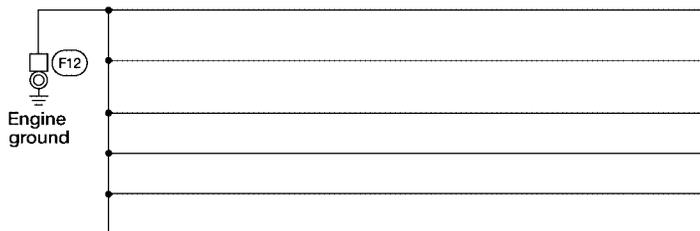
GROUND

ENGINE CONTROL HARNESS KA24DE

Engine ground



CONNECTOR NUMBER	CONNECT TO
(M21)	Heated oxygen sensor 2 (Terminal No. 4)
(M21)	Heated oxygen sensor 2 (shield wire)
(M32)	Data link connector (Terminal No. 5)
(E211)	Crankshaft position sensor (shield wire)
(F1)	Mass air flow sensor (shield wire)
(F102)	Knock sensor (shield wire)
(F3)	Throttle position sensor (shield wire)
(F13)	Distributor (camshaft position sensor) (shield wire)
(F13)	Distributor (camshaft position sensor) (Terminal No. 6)
(F14)	Resistor (ignition coil) (shield wire)
(F16)	Heated oxygen sensor 1 (shield wire)
(F29)	ECM (Terminal No. 25)
(F29)	ECM (Terminal No. 32)
(F29)	ECM (shield wire)



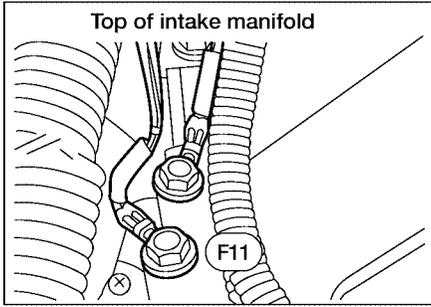
CONNECTOR NUMBER	CONNECT TO
(F7)	IACV-FICD solenoid valve
(F13)	Distributor (power transistor) (Terminal No. 2)
(F29)	ECM (Terminal No. 10)
(F29)	ECM (Terminal No. 19)
(F29)	ECM (Terminal No. 116)
(F29)	ECM (Terminal No. 124)

WKWA0961E

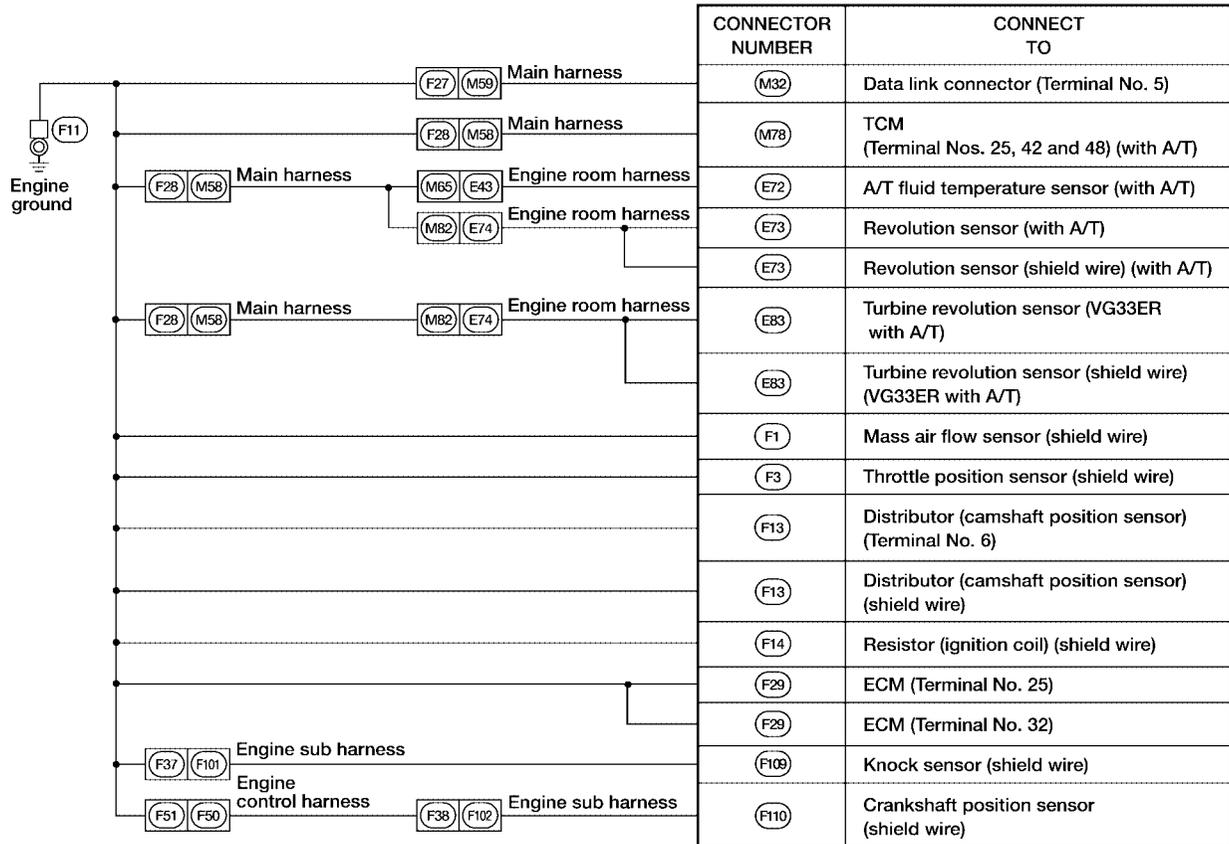
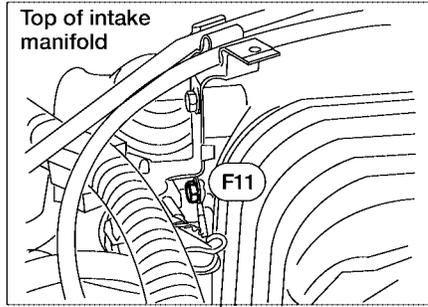
GROUND

VG33E and VG33ER

Engine ground (VG33E)



Engine ground (VG33ER)

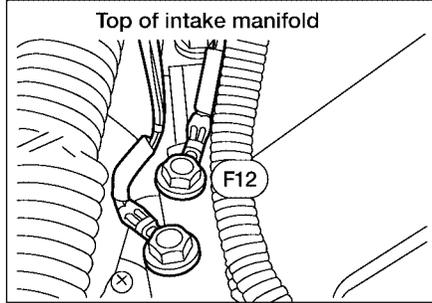


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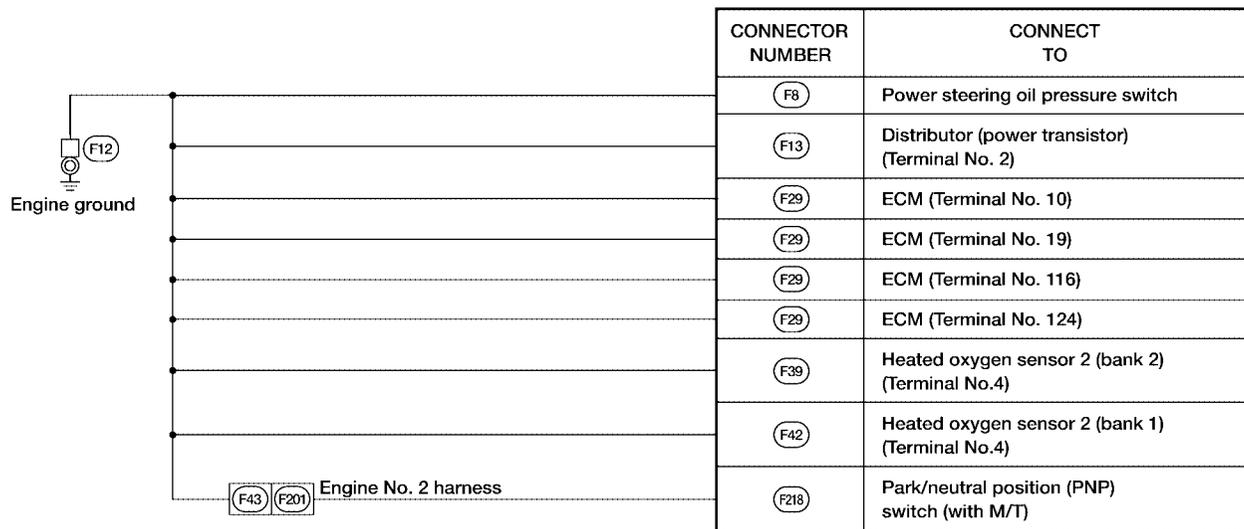
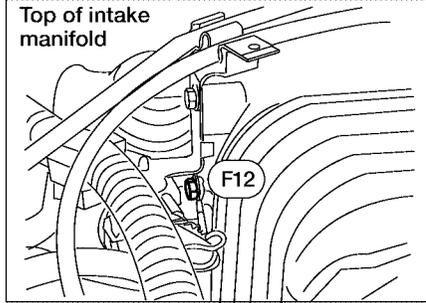
PG

GROUND

Engine ground (VG33E)



Engine ground (VG33ER)

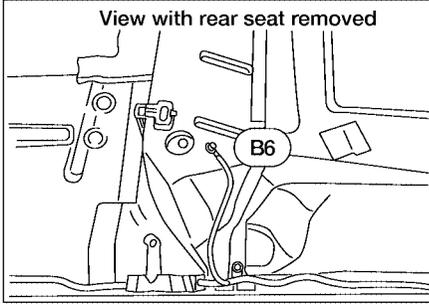


WKWA0336E

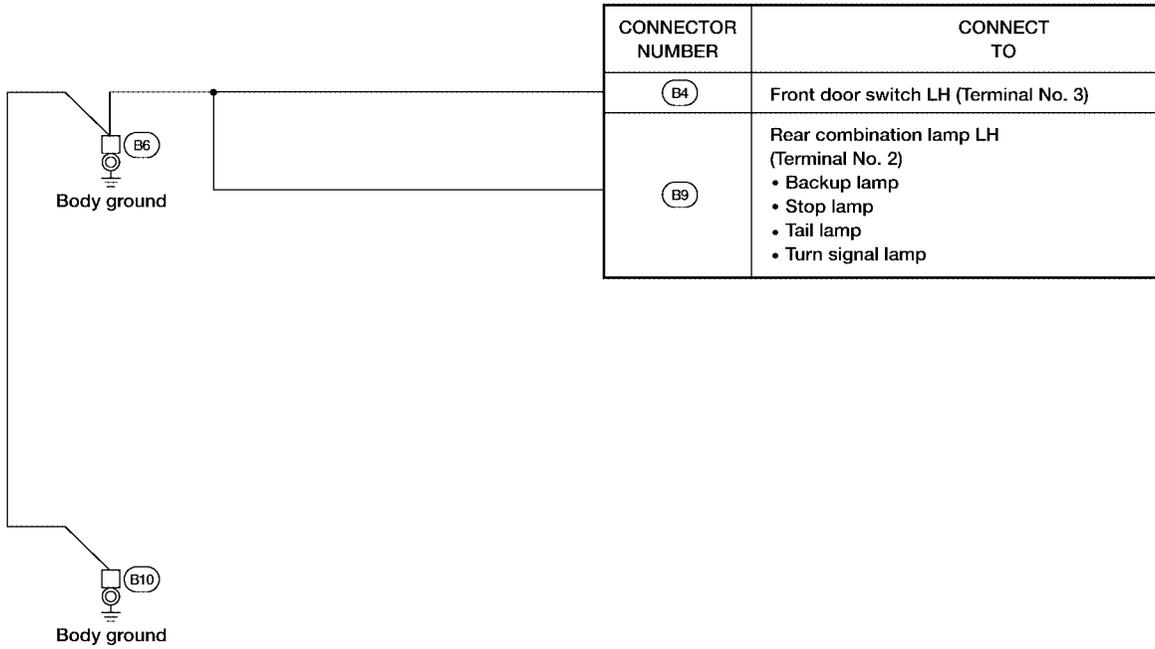
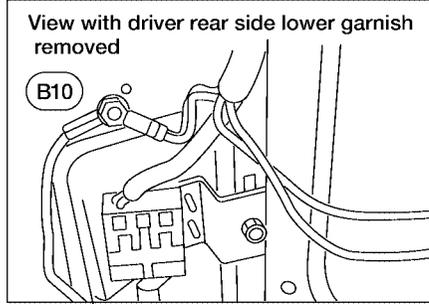
GROUND

BODY HARNESS

Body ground



Body ground

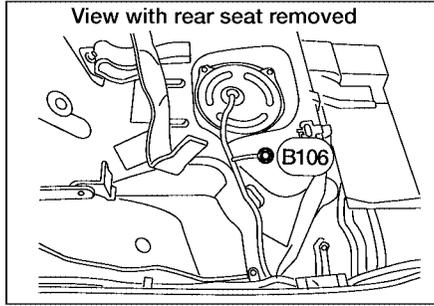


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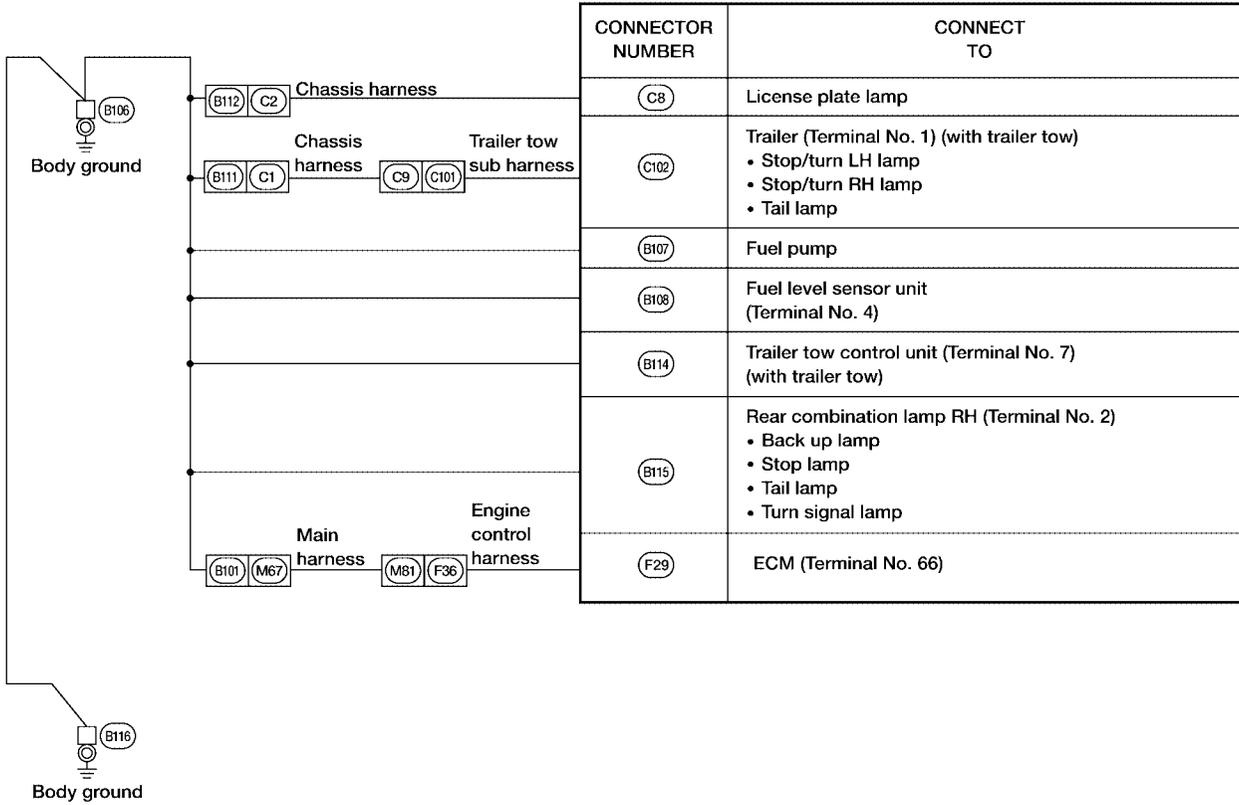
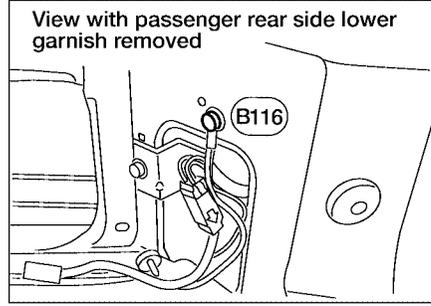
GROUND

BODY NO. 2 HARNESS

Body ground



Body ground

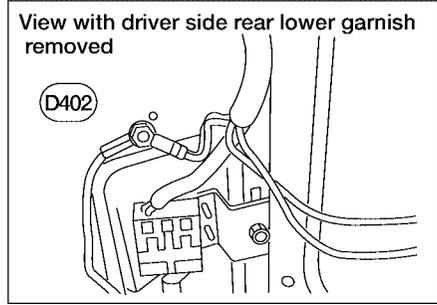


WKWA0382E

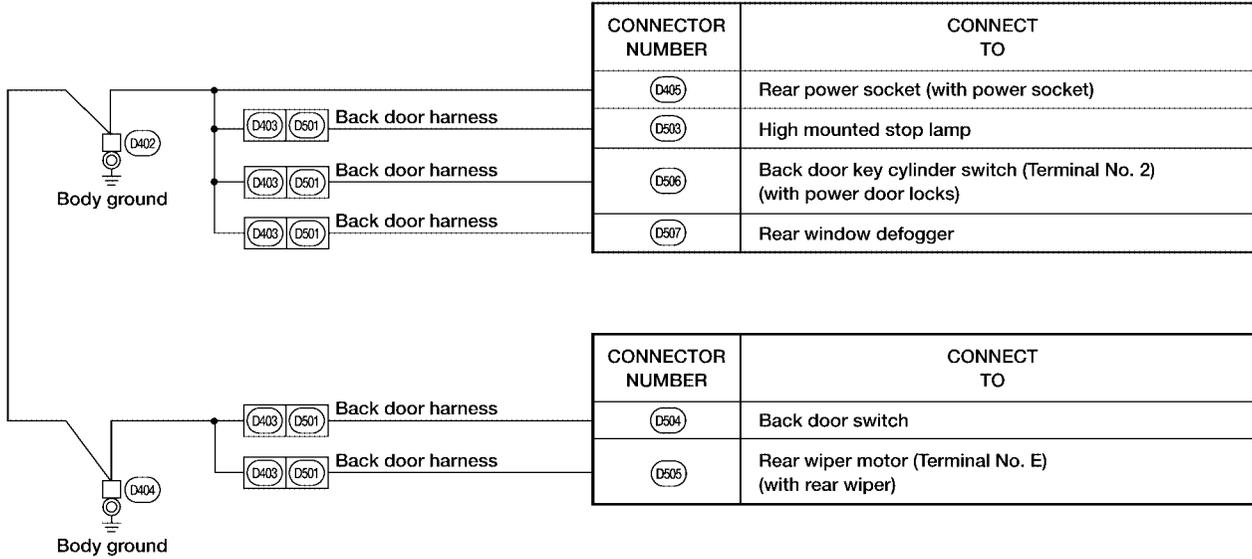
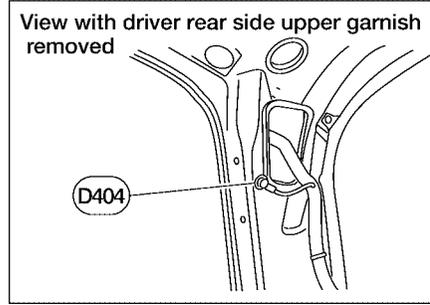
GROUND

BACK DOOR NO. 2 HARNESS

Body ground



Body ground



WKWA0337E

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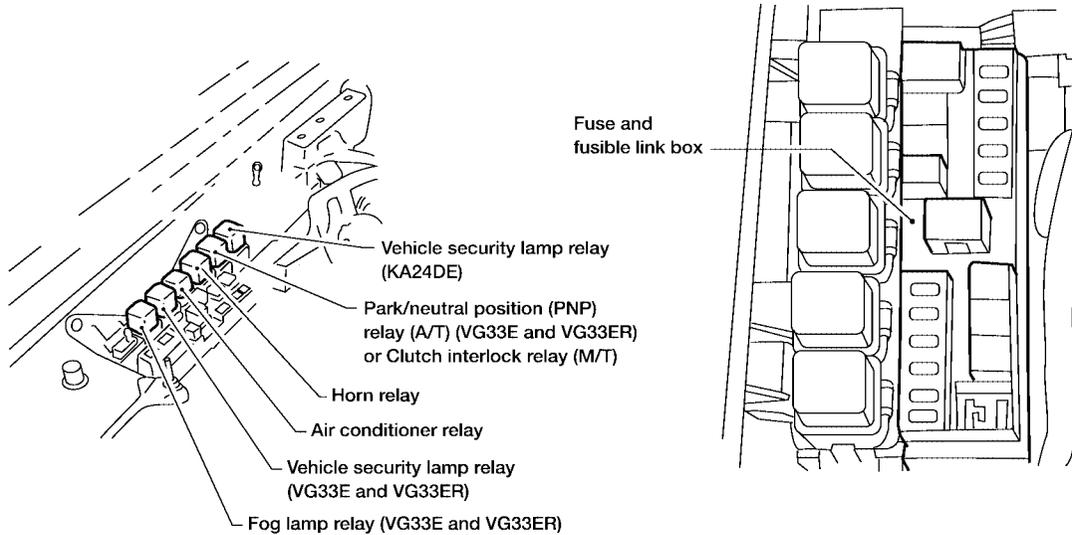
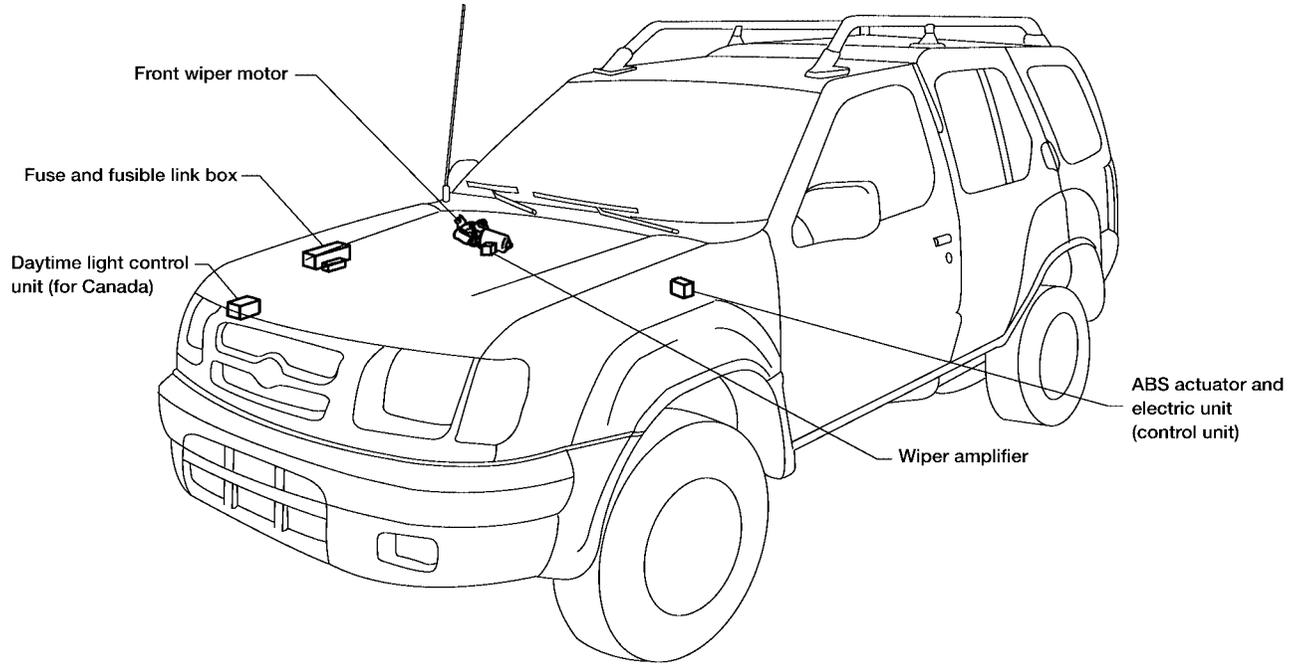
ELECTRICAL UNITS LOCATION

ELECTRICAL UNITS LOCATION

PFP:25230

Engine Compartment

EKS0036U

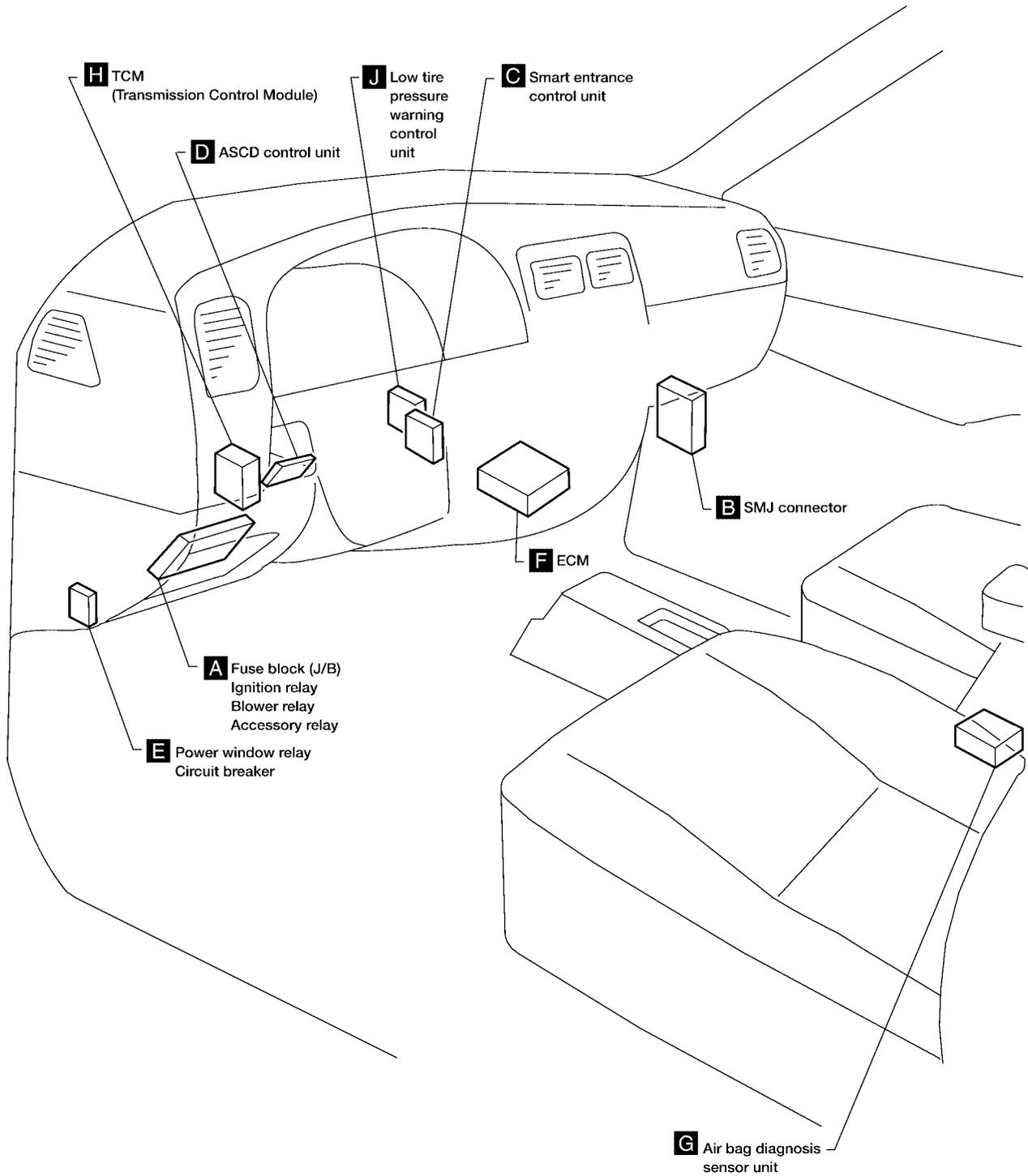


WEL919A

ELECTRICAL UNITS LOCATION

Passenger Compartment

EKS0036V



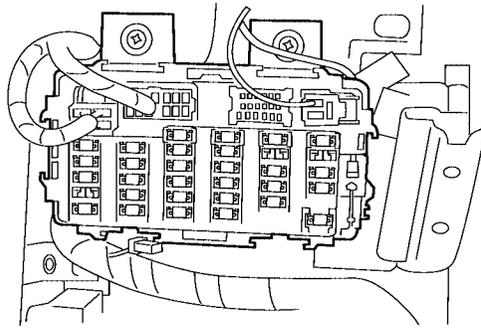
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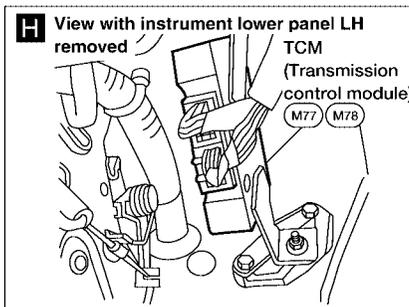
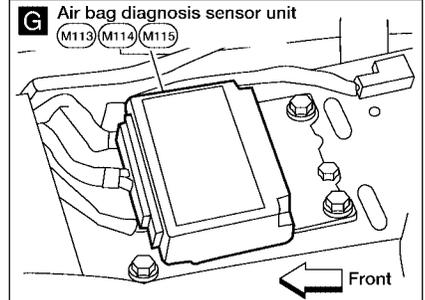
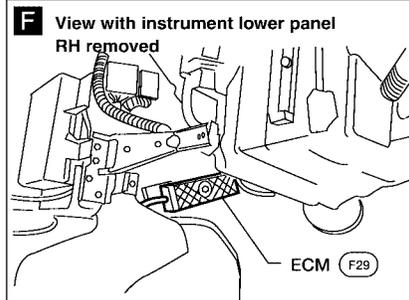
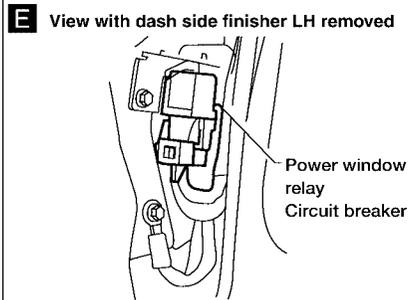
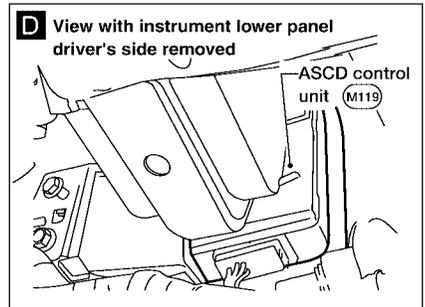
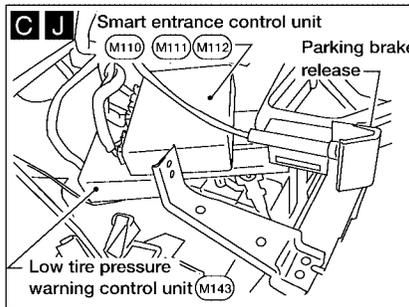
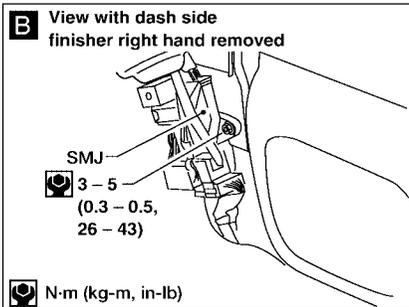
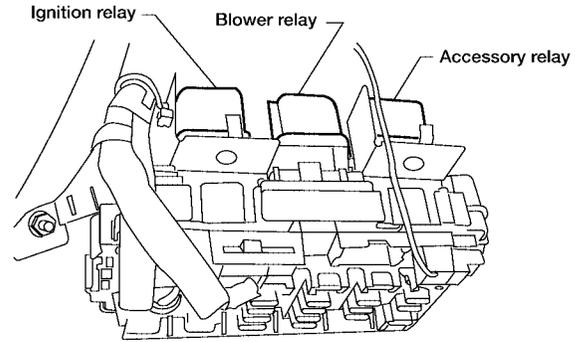
WKIA0322E

ELECTRICAL UNITS LOCATION

A



Rear view of fuse block (J/B)



HARNESS LAYOUT

PF24:24010

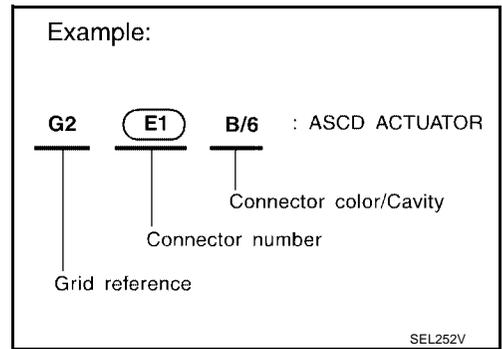
EKS0036W

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 Compartment)
- Engine Control 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

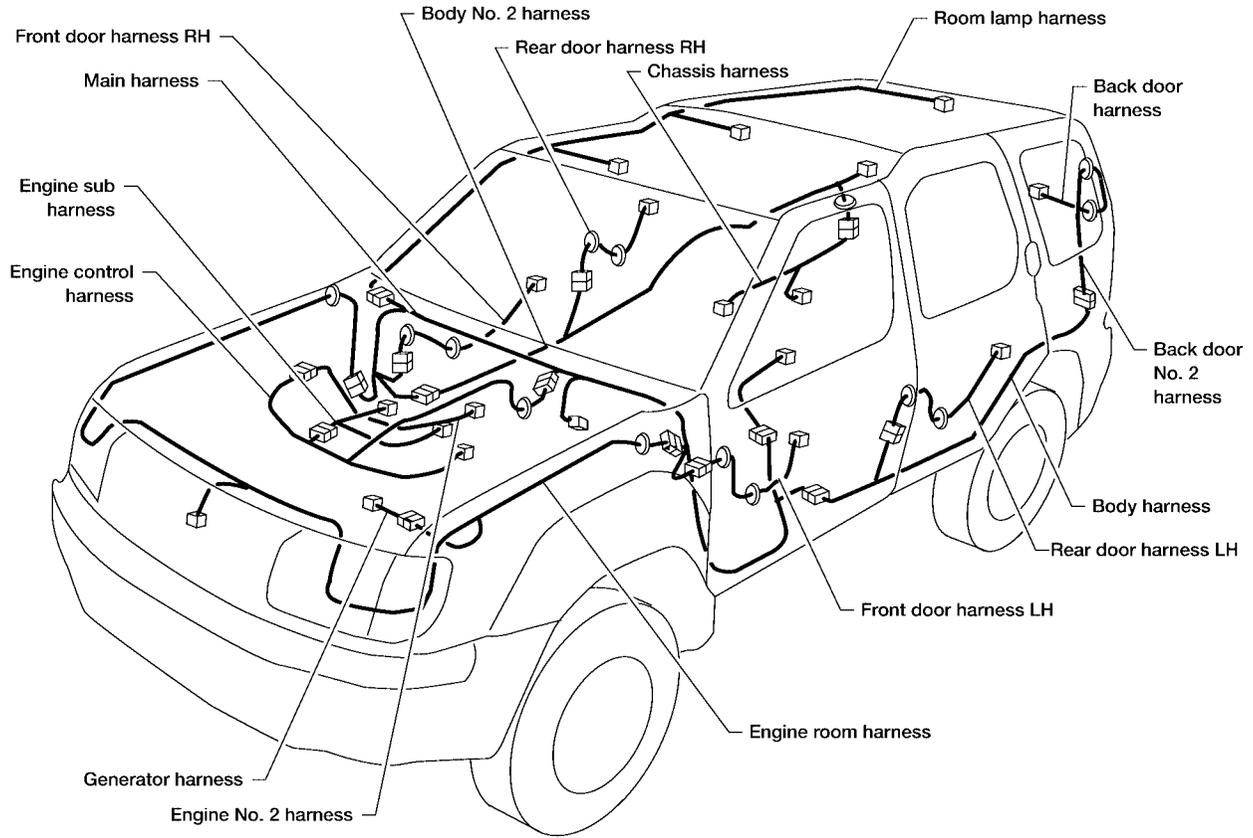
Main symbols of connector (in Harness Layout) are indicated below.

Connector type	Waterproof 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. 	—			

HARNES LAYOUT

Outline

EKS0036X



LEL161A

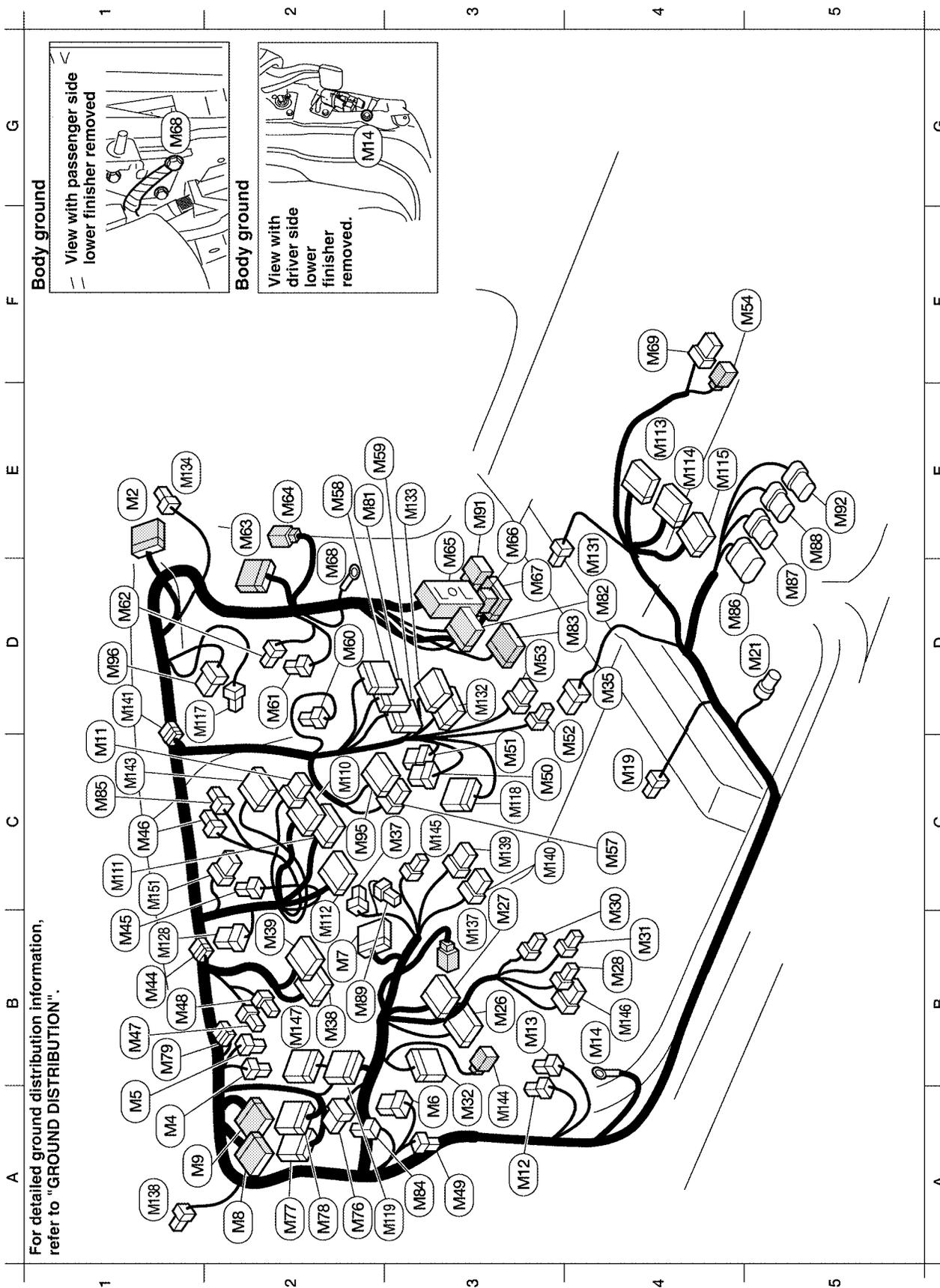
NOTE:

For detailed ground distribution information, refer to [PG-16, "Ground Distribution"](#) .

HARNESS LAYOUT

Main Harness

EKS0036Y



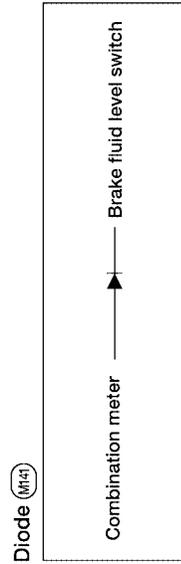
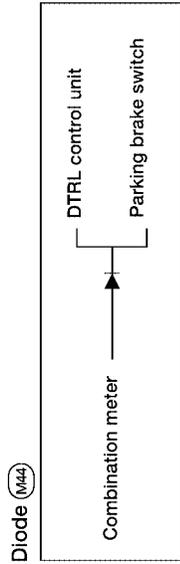
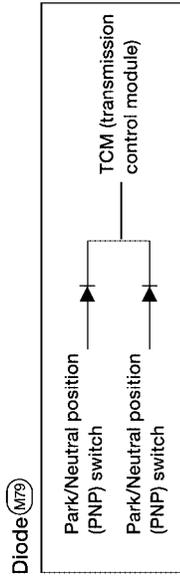
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HARNES LAYOUT

E1	(M2)	W/12	: To (RT)	A3	(M49)	B/1	: Parking brake switch	E5	(M88)	SB/8	: To (B3)
A1	(M4)	L/2	: ASCD clutch switch (with M/T)	C3	(M50)	W/6	: Audio unit	B2	(M89)	W/4	: Rear wiper switch
A1	(M5)	L/2	: Clutch interlock switch (with M/T)	D1	(M51)	W/10	: Audio unit	E3	(M91)	W/8	: To (E103)
A3	(M6)	B/5	: Vehicle security relay (with vehicle security system)	D3	(M52)	W/3	: Cigarette lighter socket	E5	(M92)	GY/6	: To (E12)
B2	(M7)	BR/12	: To (E53)	D3	(M53)	W/8	: Hazard switch	C2	(M95)	B/12	: Air control
A2	(M8)	W/12	: To (D2)	F5	(M54)	W/2	: To (M171)	D1	(M96)	B/6	: Intake door motor
A2	(M9)	W/12	: To (D1)	C4	(M57)	W/6	: Fan switch	C2	(M110)	W/24	: Smart entrance control unit
C1	(M11)	W/8	: Warning chime unit (without power door locks)	E2	(M58)	W/16	: To (F28) (except with KA24DE engine)	C1	(M111)	GY/24	: Smart entrance control unit
A3	(M12)	W/2	: Circuit breaker (with power door locks)	E2	(M59)	W/16	: To (F27)	B2	(M112)	GY/16	: Smart entrance control unit
B3	(M13)	L/4	: Power window relay (with power windows)	D2	(M60)	W/2	: Intake sensor	E4	(M113)	Y/12	: Air bag diagnosis sensor unit
B4	(M14)	-	: Body ground	D2	(M61)	BR/4	: Fan resistor	E4	(M114)	Y/28	: Air bag diagnosis sensor unit
C4	(M19)	W/3	: Seat belt buckle switch LH	D1	(M62)	W/2	: Blower motor	D2	(M117)	Y/4	: Passenger air bag module
D5	(M21)	GY/4	: Heated oxygen sensor 2 (with KA24DE engine)	E2	(M63)	W/12	: To (D10)	C3	(M118)	W/16	: Audio unit
B3	(M26)	W/16	: Fuse block (J/B)	E2	(M64)	W/2	: To (D102)	A3	(M119)	BR/24	: ASCD control unit
B3	(M27)	W/10	: Fuse block (J/B)	E3	(M65)	SMJ	: To (E43)	B1	(M128)	B/5	: ASCD relay
B4	(M28)	W/3	: Illumination control switch	E3	(M66)	W/4	: To (E44)	E4	(M131)	W/3	: Seat belt buckle switch RH
C4	(M30)	W/4	: Security indicator lamp (with vehicle security system)	E3	(M67)	W/16	: To (E101)	D3	(M132)	W/12	: Audio amplifier
B4	(M31)	W/3	: Fuse block (J/B)	E2	(M68)	-	: Body ground	E3	(M133)	W/12	: Audio amplifier
A3	(M32)	W/16	: Data link connector	F4	(M69)	B/6	: Yaw rate/side G-sensor	E1	(M134)	BR/2	: Pillar tweeter RH
D4	(M35)	W/6	: A/T device (with A/T)	A2	(M76)	B/5	: ATP relay (with A/T)	B3	(M137)	Y/4	: To (E88)
C3	(M37)	W/2	: Key switch	A2	(M77)	W/24	: TCM (with A/T)	A1	(M138)	BR/2	: Pillar tweeter LH
B2	(M38)	W/24	: Combination meter	A2	(M78)	GY/24	: TCM (with A/T)	C3	(M139)	Y/6	: Spiral cable
B2	(M39)	BR/24	: Combination meter	B1	(M79)	GY/3	: Diode-2 (with A/T)	C3	(M140)	GY/8	: Spiral cable
B1	(M44)	GY/2	: Diode-1	E2	(M81)	W/20	: To (F36) (with KA24DE engine)	D1	(M141)	B/2	: Diode-3
B1	(M45)	B/3	: Combination flasher unit	E2	(M81)	W/24	: To (F36) (with VG33E and VG33ER engine)	C1	(M143)	W/16	: Low tire pressure warning control unit
C1	(M46)	L/4	: Fuel pump relay	D4	(M82)	W/24	: To (E74) (with VG33E and VG33ER engine)	A3	(M144)	W/2	: Low tire pressure warning check connector
B1	(M47)	B/2	: Stop lamp switch	D4	(M83)	W/12	: To (E102)	C3	(M145)	B/7	: Steering angle sensor
B1	(M48)	L/2	: ASCD brake switch (A/T shift lock brake switch)	A3	(M84)	L/4	: Rear window defogger relay	B4	(M146)	GY/6	: VDC off switch (with VDC)
				C1	(M85)	W/4	: Rear window defogger timer	B2	(M147)	W/16	: CAN-LAN converter
				D5	(M86)	GY/10	: To (B1)	C1	(M151)	BR/6	: Low tire pressure warning relay
				D5	(M87)	B/8	: To (E2)				

WKIA2057E

HARNESS LAYOUT



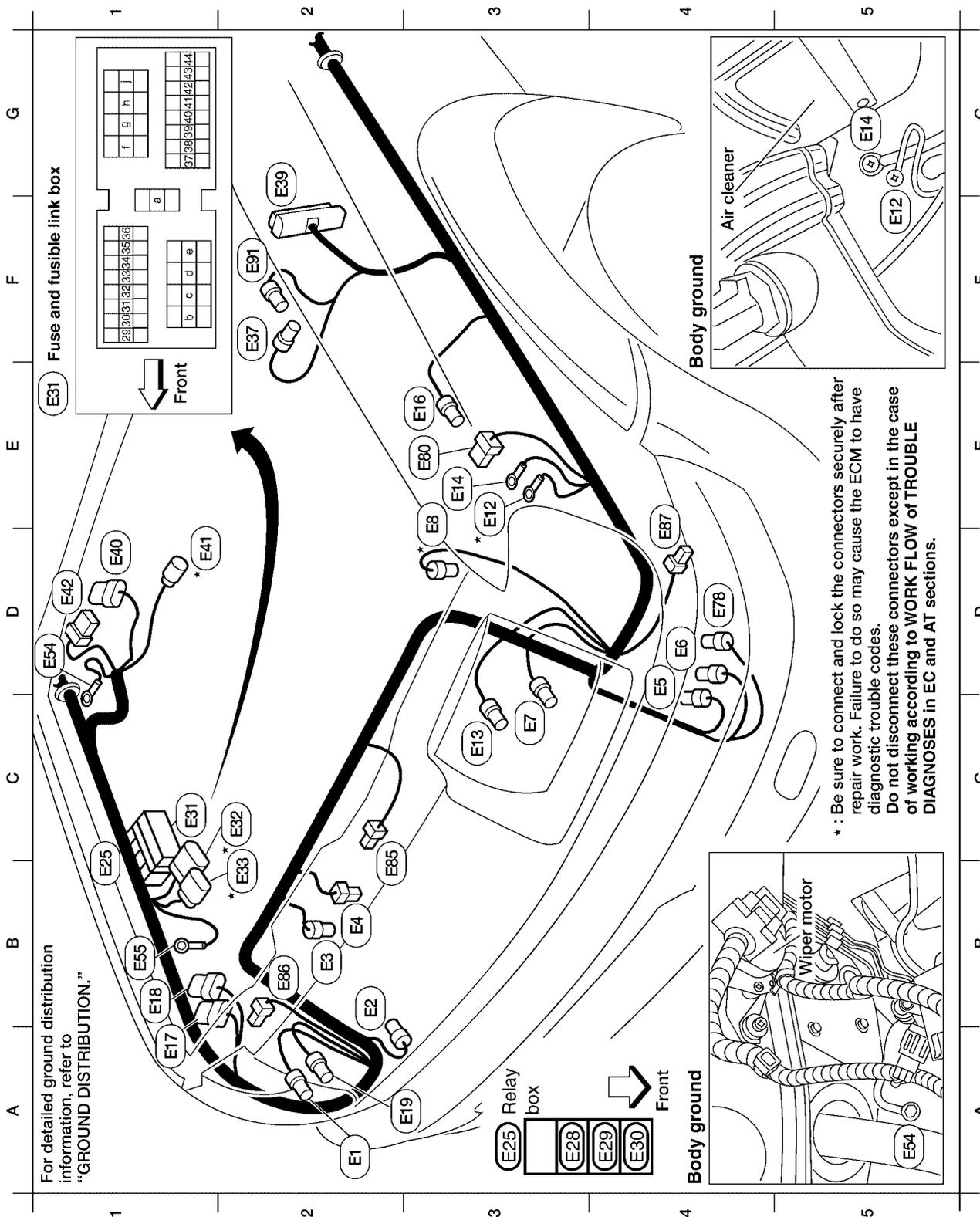
* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

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HARNESS LAYOUT

Engine Room Harness KA24DE Engine Compartment

EKS0036Z



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

HARNESS LAYOUT

ENGINE ROOM KA24DE

A2	(E1)	B/3	: Headlamp RH	(E18)	GY/6	: Daytime light control unit (with DTRL)	D1	*	(E41)	GY/3	: To (F25)
B2	(E2)	GY/2	: Front wheel sensor RH	(E19)	GY/3	: Front combination lamp RH	D1		(E42)	GY/6	: Front wiper motor
B2	(E3)	B/2	: Refrigerant pressure sensor	(E25)	-	: Relay box	C1	*	(E54)	-	: Body ground
B2	(E4)	B/1	: Horn	(E28)	L/4	: Clutch interlock relay	B1		(E55)	-	: Battery
D4	(E6)	GY/2	: Front washer motor	(E29)	W/3	: Horn relay	D4		(E78)	BR/2	: Rear washer motor (with intermittent wipers)
C3	(E7)	B/3	: Headlamp LH	(E30)	L/4	: A/C relay			(E80)	B/6	: ASCD motor actuator
D3	*	(E8)	: Intake air temperature sensor	(E31)	-	: Fuse and fusible link box	C2		(E85)	Y/2	: Crash zone sensor
D3	*	(E12)	: Body ground						(E86)	BR/2	: Side marker lamp RH
D4	(E13)	GY/3	: Front combination lamp LH	*	(E32)	GY/9	: To (E202)		(E87)	BR/2	: Side marker lamp LH
E3	(E14)	-	: Body ground	*	(E33)	GY/6	: To (E201)		(E91)	B/2	: Pressure switch
E3	(E16)	BR/2	: Front wheel sensor LH	F2	(E37)	GY/2	: Brake fluid level switch				
A1	(E17)	GY/8	: Daytime light control unit (with DTRL)	F2	(E39)	B/47	: ABS actuator and electric unit (control unit)				

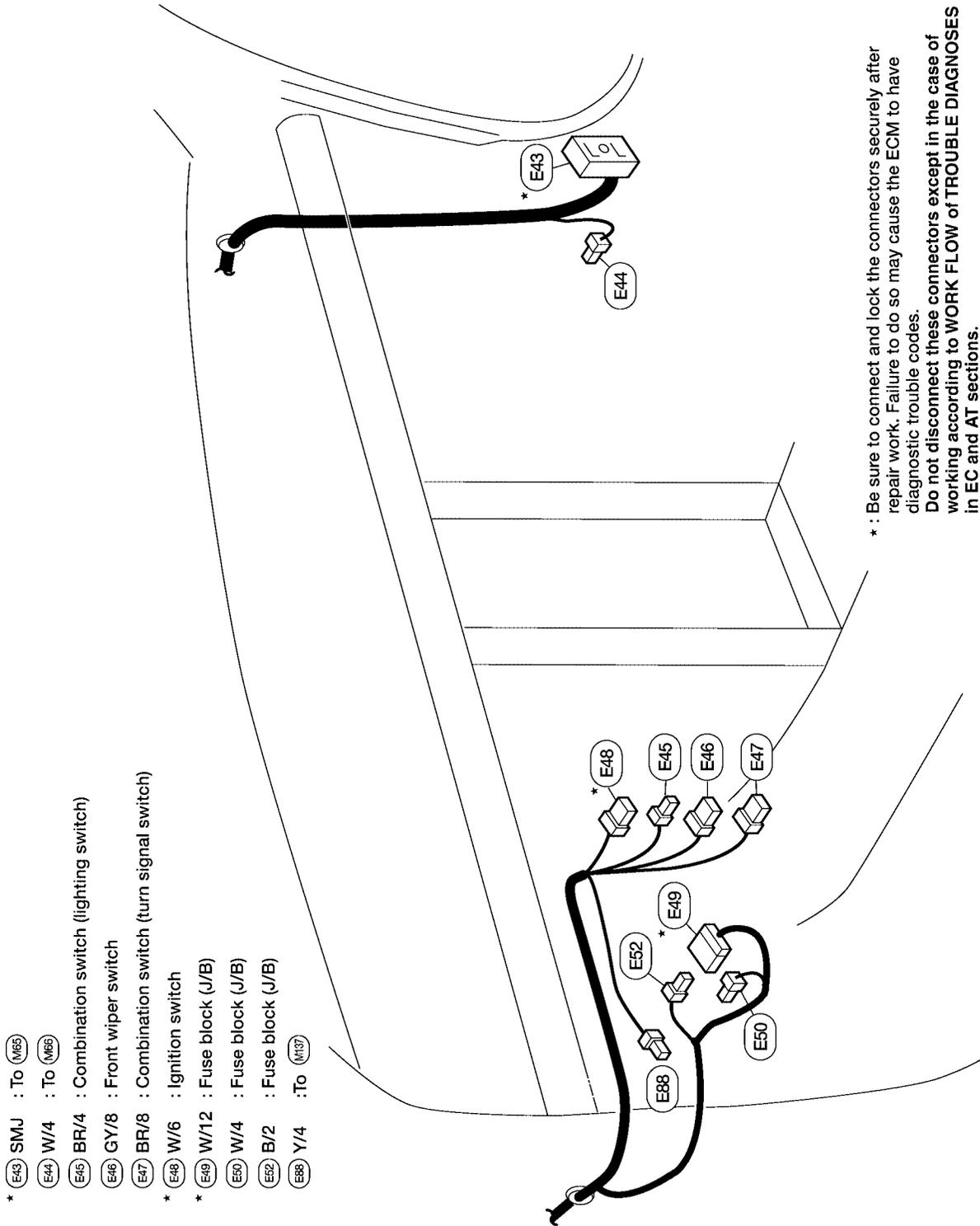
* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES

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HARNESS LAYOUT

Passenger Compartment



HARNES LAYOUT

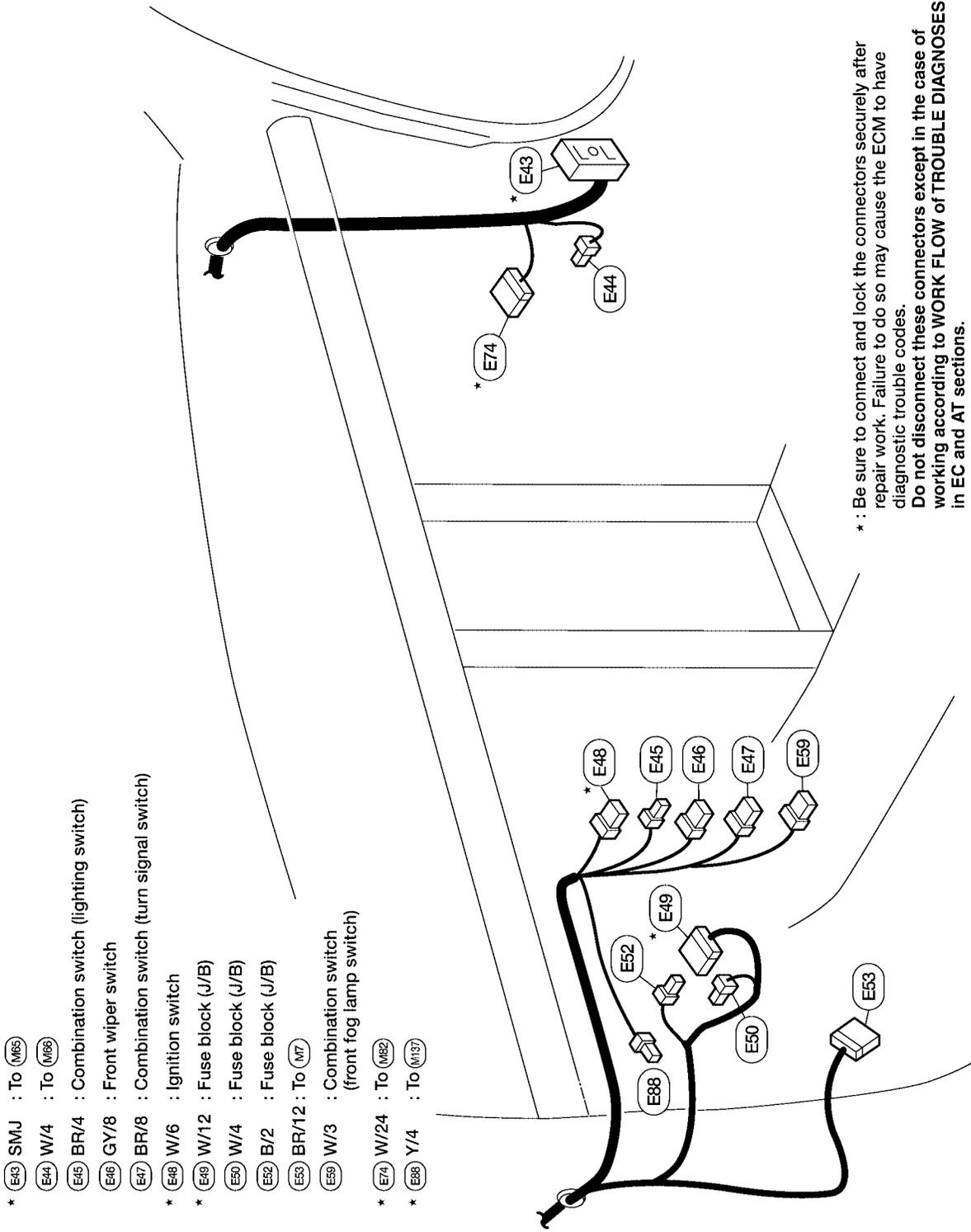
ENGINE ROOM VG33E AND VG33ER

A2	(E1)	B/3	: Headlamp RH	A4	(E28)	L/4	: Clutch interlock relay (with M/T)	B2	(E71)	GY/2	: Dropping resistor
B2	(E2)	GY/2	: Front wheel sensor RH	A4	(E29)	W/3	: Horn relay	C1	(E72)	BR/8	: Terminal cord assembly
B2	(E3)	B/2	: Refrigerant pressure sensor	A4	(E30)	L/4	: A/C relay	C2	(E73)	GY/3	: Revolution sensor
B3	(E4)	B/1	: Horn	C1	(E31)	-	: Fuse and fusible link box	B1	(E75)	-	: To (E31)
C4	(E5)	BR/2	: Washer fluid level switch	C2	(E34)	GY/8	: Park/neutral position (PNP) switch (with A/T)	B1	(E76)	-	: To (E31)
D4	(E6)	GY/2	: Front washer motor	D2	(E35)	W/2	: Park/neutral position (PNP) switch (with A/T)	D4	(E78)	BR/2	: Rear washer motor
C3	(E7)	B/3	: Headlamp LH	G2	(E37)	GY/2	: Brake fluid level switch	D1	(E80)	GY/6	: ASCD motor actuator
D3	(E8)	B/2	: Intake air temperature sensor	G2	(E39)	B/47	: ABS actuator and electric unit (control unit)	C1	(E83)	BR/4	: Turbine revolution sensor
D3	(E9)	W/2	: Hood switch (with vehicle security system)	D1	(E42)	SB/6	: Front wiper motor	F2	(E84)	B/2	: Supercharger bypass valve control solenoid valve
D3	(E12)	-	: Body ground	D1	(E54)	-	: Body ground	C2	(E86)	Y/2	: Crash zone sensor
D4	(E13)	GY/3	: Front combination lamp LH	B2	(E55)	-	: Battery	B2	(E86)	BR/2	: Side marker lamp RH
E3	(E14)	-	: Body ground	B4	(E56)	L/4	: Front fog lamp relay	D4	(E87)	BR/2	: Side marker lamp LH
E2	(E16)	BR/2	: Front wheel sensor LH	A3	(E57)	GY/2	: Front fog lamp RH	B3	(E89)	B/2	: Ambient air temperature sensor
A1	(E17)	GY/8	: Daytime light control unit (with DTRL)	C4	(E58)	GY/2	: Front fog lamp LH	C1	(E90)	W/2	: Auxiliary power supply
B1	(E18)	GY/6	: Daytime light control unit (with DTRL)	E2	(E61)	L/2	: EVAP canister purge volume control solenoid valve	G2	(E91)	B/2	: Pressure switch
A1	(E19)	GY/3	: Front combination lamp RH	E3	(E63)	GY/1	: To (A3)	C2	(E201)	GY/1	: To (E67)
B3	(E22)	BR/6	: Vehicle security lamp relay (with vehicle security system)	E3	(E64)	GY/1	: To (A4)	D2	(E202)	GY/1	: Starter motor
C1	(E25)	-	: Relay box	E2	(E65)	GY/3	: To (A5)	D2	(E203)	-	: Starter motor
A3	(E27)	BR/6	: Park/neutral position (PNP) relay (with A/T)	C2	(E67)	GY/1	: To (E201)	C2	(E204)	-	: Battery
				B3	(E68)	GY/2	: Ambient air temperature switch				

* : 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

HARNESS LAYOUT

Passenger Compartment



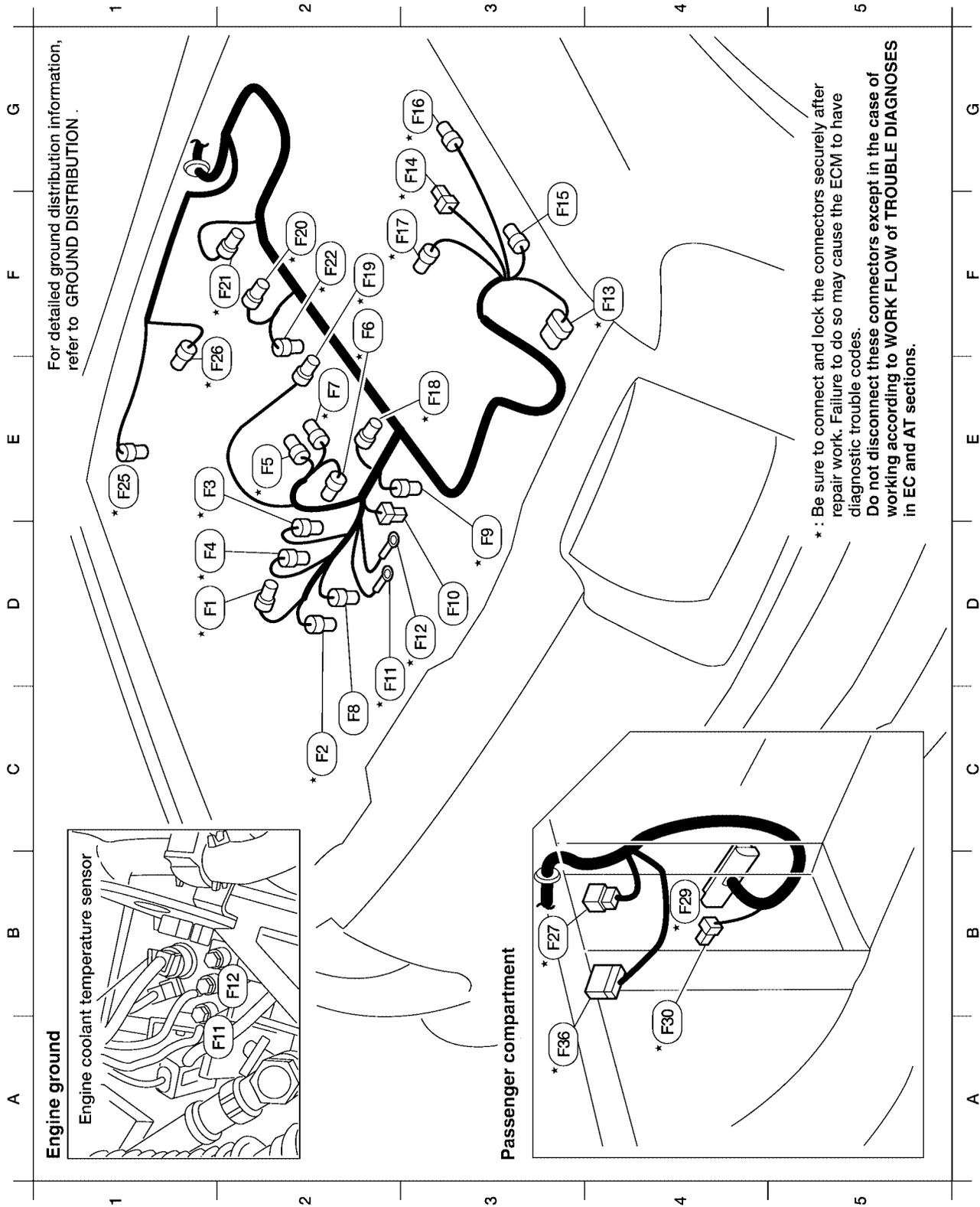
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HARNESS LAYOUT

Engine Control Harness KA24DE

EKS00370



WKIA0305E

HARNESS LAYOUT

D2	*	F1	BR/4	: Mass air flow sensor	F3	*	F17	GY/2	: Distributor (ignition coil)
C2	*	F2	GY/2	: To F101	E3	*	F18	B/2	: Injector No. 1
D2	*	F3	BR/3	: Throttle position sensor	F2	*	F19	B/2	: Injector No. 2
D2	*	F4	GY/3	: Throttle position switch (closed throttle position switch and wide open throttle position switch)	F2	*	F20	B/2	: Injector No. 3
E2	*	F5	GY/2	: EGR temperature sensor	F2	*	F21	B/2	: Injector No. 4
F2	*	F6	BR/2	: IACV-AAC valve	F2	*	F22	G/2	: EGRC-solenoid valve
E2	*	F7	PU/2	: IACV-FICD solenoid valve	E1	*	F25	GY/3	: To E41
C2		F8	B/1	: Power steering pressure switch	E2	*	F26	L/2	: EVAP canister purge volume control solenoid valve
D3	*	F9	GY/2	: Engine coolant temperature sensor	B3	*	F27	W/16	: To M59
D3		F10	B/1	: Thermal transmitter	B4	*	F29	GY/124	: ECM
D2	*	F11	-	: Engine ground	A4	*	F30	L/4	: ECM relay
D3	*	F12	-	: Engine ground	A3	*	F36	W/20	: To M81
F4	*	F13	GY/6	: Distributor (camshaft position sensor)					
G3	*	F14	GY/2	: Resistor					
F3		F15	B/1	: A/C compressor					
G3	*	F16	SB/3	: Heated oxygen sensor 1					

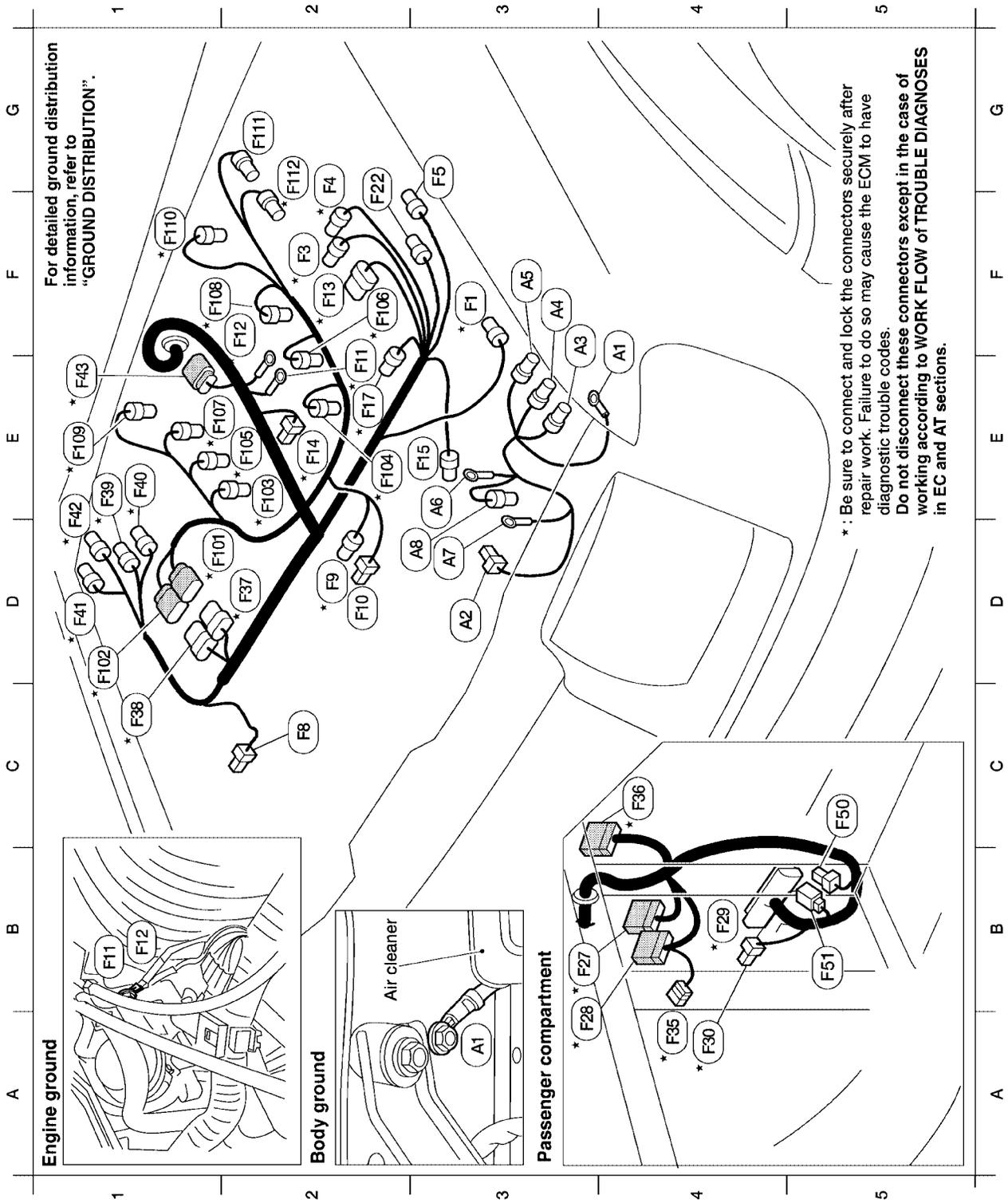
* : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

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HARNES LAYOUT

VG33E



WKIA0307E

HARNESS LAYOUT

ENGINE CONTROL HARNESS

- F3 * (F1) BR/4 : Mass air flow sensor
- F2 * (F3) BR/3 : Throttle position sensor
- F2 (F4) GY/3 : Throttle position switch (closed throttle position switch and wide open throttle position switch)
- G3 (F5) GY/2 : EGR temperature sensor
- C2 (F8) B/2 : Power steering oil pressure switch
- D2 * (F9) GY/2 : Engine coolant temperature sensor
- D2 (F10) B/1 : Thermal transmitter
- E2 * (F11) - : Engine ground
- F2 * (F12) - : Engine ground
- F2 * (F13) GY/6 : Distributor (camshaft, position sensor)
- E2 * (F14) GY/2 : Resistor
- E3 (F15) B/1 : A/C compressor
- E2 * (F17) GY/2 : Distributor (ignition coil)
- G2 (F22) B/2 : EGRC solenoid valve
- B3 * (F27) W/16 : To (M59)
- A3 * (F28) W/16 : To (M56)
- B4 * (F29) GY/124 : ECM
- A4 * (F30) L/4 : ECM relay
- A4 * (F35) B/2 : Diode-5
- C4 * (F36) W/24 : To (M81)
- D2 * (F37) B/8 : To (F10)
- C1 * (F38) GY/8 : To (F102)
- E1 * (F39) B/4 : Heated oxygen sensor 2 (bank 2)
- E1 * (F40) B/3 : Heated oxygen sensor 1 (bank 2)
- D1 * (F41) B/3 : Heated oxygen sensor 1 (bank 1)
- D1 * (F42) B/4 : Heated oxygen sensor 2 (bank 1)
- E1 * (F43) GY/8 : To (F201)

ENGINE CONTROL HARNESS (CONTINUED)

- C5 (F50) W/1 : To (F51)
- B5 (F51) W/1 : To (F50)

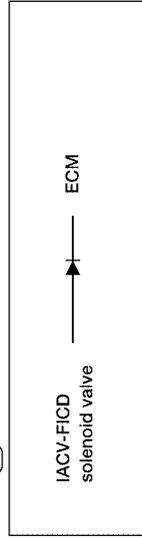
ENGINE SUB HARNESS

- D2 * (F101) B/8 : To (F37)
- D1 * (F102) GY/8 : To (F38)
- E2 * (F103) B/2 : Injector No. 1
- E2 * (F104) B/2 : Injector No. 2
- E2 * (F105) B/2 : Injector No. 3
- F2 * (F106) B/2 : Injector No. 4
- E2 * (F107) B/2 : Injector No. 5
- F1 * (F108) B/2 : Injector No. 6
- E1 * (F109) GY/2 : Knock sensor
- F1 * (F110) GY/3 : Crankshaft position sensor (OBD)
- G2 * (F111) GY/2 : IACV-FICD solenoid valve
- G2 * (F112) BR/2 : IACV-AAC valve

GENERATOR HARNESS

- F4 (A1) - : Body ground
- D3 (A2) GY/1 : Oil pressure switch
- F3 (A3) GY/1 : To (E63)
- F3 (A4) GY/1 : To (E64)
- F3 (A5) GY/3 : To (E66)
- E3 (A6) - : Generator
- D3 (A7) - : Generator
- D3 (A8) GY/2 : Generator

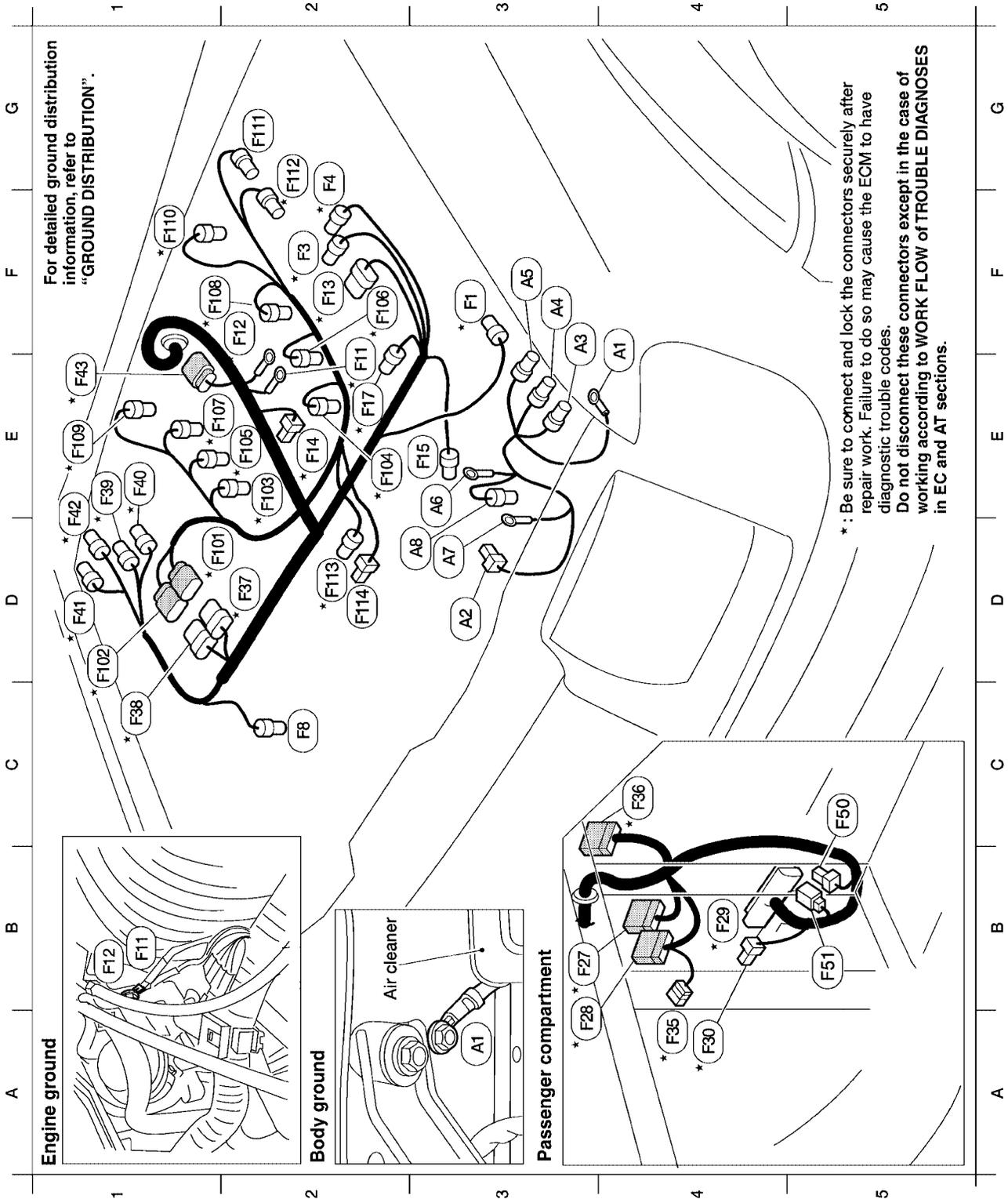
Diode (F35)



* : 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.

HARNES LAYOUT

VG33ER



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

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

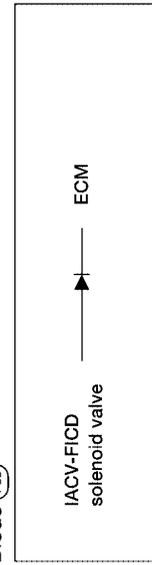
WKIA0309E

HARNESS LAYOUT

ENGINE CONTROL HARNESS

F3	*	F1	BR/4	: Mass air flow sensor
F2	*	F3	BR/3	: Throttle position sensor
F2	F4	GY/3	: Throttle position switch (closed throttle position switch and wide open throttle position switch)	
C2	F8	B/2	: Power steering oil pressure switch	
E2	*	F11	-	: Engine ground
F2	*	F12	-	: Engine ground
F2	*	F13	GY/6	: Distributor (camshaft position sensor)
E2	*	F14	GY/2	: Resistor
E3	F15	B/1	: A/C compressor	
E2	*	F17	GY/2	: Distributor (ignition coil)
B3	*	F27	W/16	: To M59
A3	*	F28	W/16	: To M58
B4	*	F29	GY/124	: ECM
A4	*	F30	L/4	: ECM relay
A4	*	F35	SB/2	: Diode
C4	*	F36	W/24	: To M81
D2	*	F37	G/10	: To F101
C1	*	F38	GY/10	: To F102
E1	*	F39	B/4	: Heated oxygen sensor 2 (bank 2)
E1	*	F40	B/3	: Heated oxygen sensor 1 (bank 2)
D1	*	F41	B/3	: Heated oxygen sensor 1 (bank 1)
D1	*	F42	B/4	: Heated oxygen sensor 2 (bank 1)
E1	*	F43	B/8	: To F201
C5	F50	W/1	: To F51	
B5	F51	W/1	: To F50	

Diode F35



ENGINE SUB HARNESS

D2	*	F101	G/10	: To F37
D1	*	F102	GY/10	: To F38
E2	*	F103	B/2	: Injector No. 1
E2	*	F104	B/2	: Injector No. 2
E2	*	F105	B/2	: Injector No. 3
F2	*	F106	B/2	: Injector No. 4
E2	*	F107	B/2	: Injector No. 5
F1	*	F108	B/2	: Injector No. 6
E1	*	F109	GY/2	: Knock sensor
F1	*	F110	GY/2	: Crankshaft position sensor (OBD)
G2	F111	GY/2	: IACV-FICD solenoid valve	
G2	*	F112	BR/2	: IACV-AAC valve
D2	*	F113	GY/2	: Engine coolant temperature sensor
D2	*	F114	B/1	: Thermal transmitter

GENERATOR HARNESS

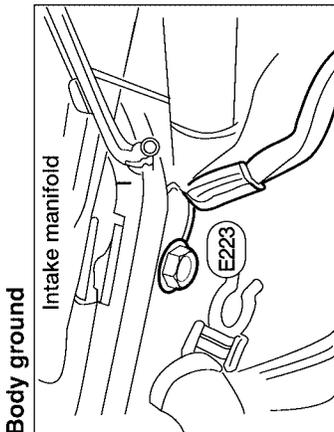
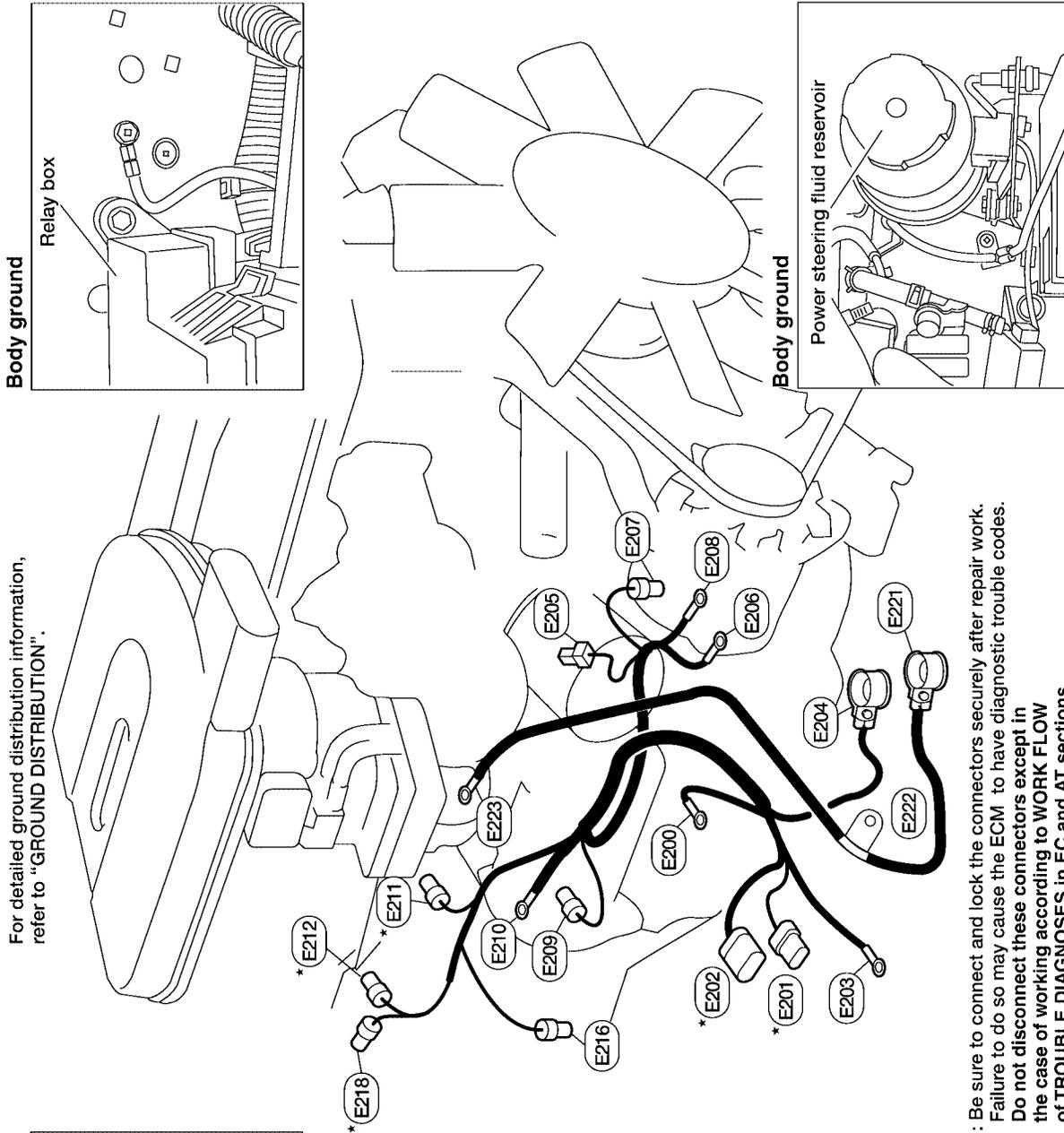
F4	A1	-	: Body ground
D3	A2	GY/1	: Oil pressure switch
F3	A3	GY/1	: To E63
F3	A4	GY/1	: To E64
F3	A5	GY/3	: To E65
E3	A6	-	: Generator
D3	A7	-	: Generator
D3	A8	GY/2	: Generator

* : 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 LAYOUT

Engine No. 2 Harness KA24DE

EKS00371



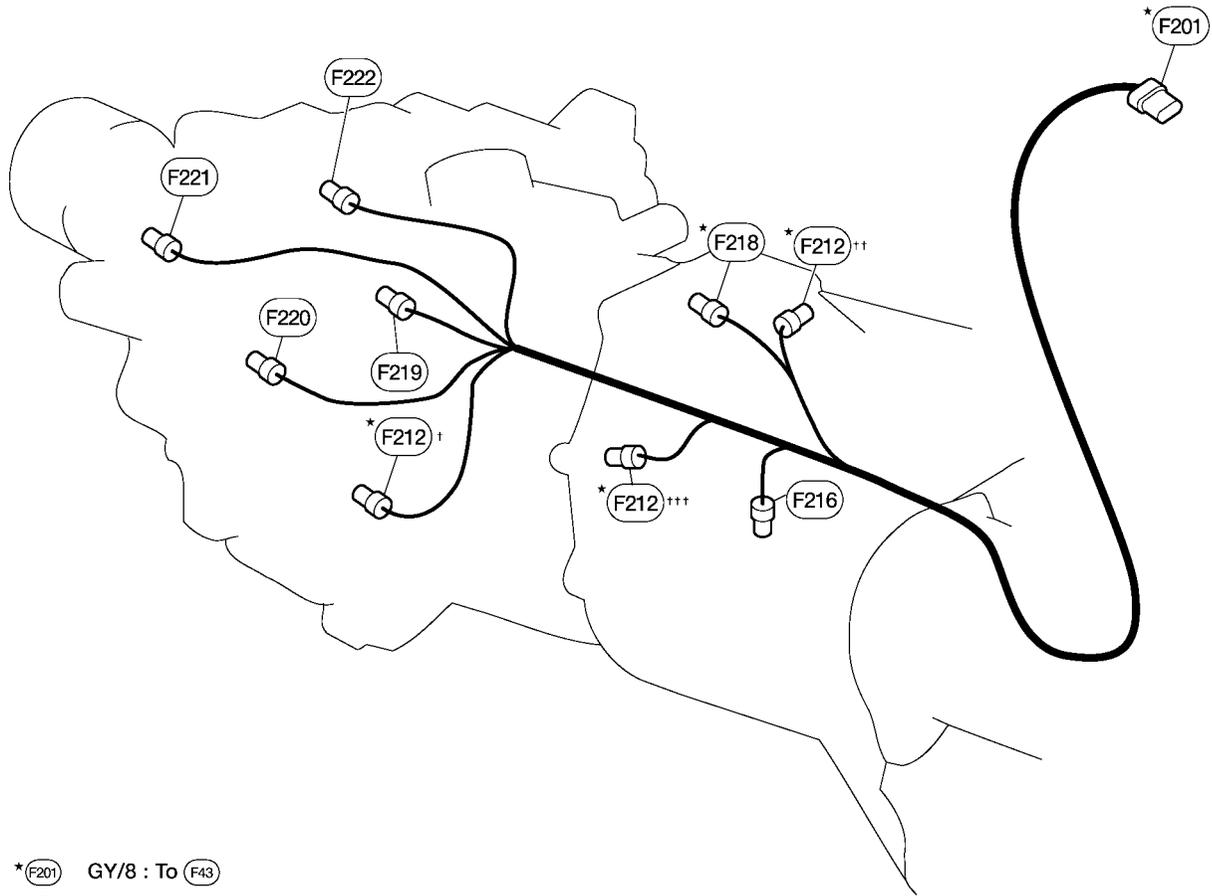
- (E200) - : Relay box
- * (E201) GY/6 : To (E33)
- * (E202) GY/9 : To (E32)
- (E203) - : Body ground
- (E204) - : Battery positive terminal
- (E205) GY/1 : Oil pressure switch
- (E206) - : Generator
- (E207) W/2 : Generator
- (E208) - : Generator
- (E209) GY/1 : Starter motor
- (E210) - : Starter motor
- * (E211) GY/2 : Crankshaft position sensor (OBD)
- * (E212) GY/2 : Vehicle speed sensor
- (E216) GY/2 : Back-up lamp switch
- * (E218) B/2 : Park/neutral position (PNP) switch
- (E221) - : Battery negative terminal
- (E222) - : Body ground
- (E223) - : Engine ground

*: 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.

WKIA0311E

HARNES LAYOUT

VG33E



- * (F201) GY/8 : To (F43)
- * (F212)† GY/2 : Vehicle speed sensor (with 4WD)
- * (F212)†† GY/2 : Vehicle speed sensor (with 2WD M/T)
- * (F212)††† GY/2 : Vehicle speed sensor (with 2WD A/T)
- (F216) GY/2 : Back-up lamp switch (with M/T)
- * (F218) B/2 : Park/neutral position (PNP) switch (with M/T)
- (F219) GY/1 : 4WD switch (with M/T)
- (F220) GY/1 : 4WD switch (with M/T)
- (F221) GY/2 : 4WD switch (with A/T)
- (F222) B/2 : Transfer neutral position switch (with A/T)

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

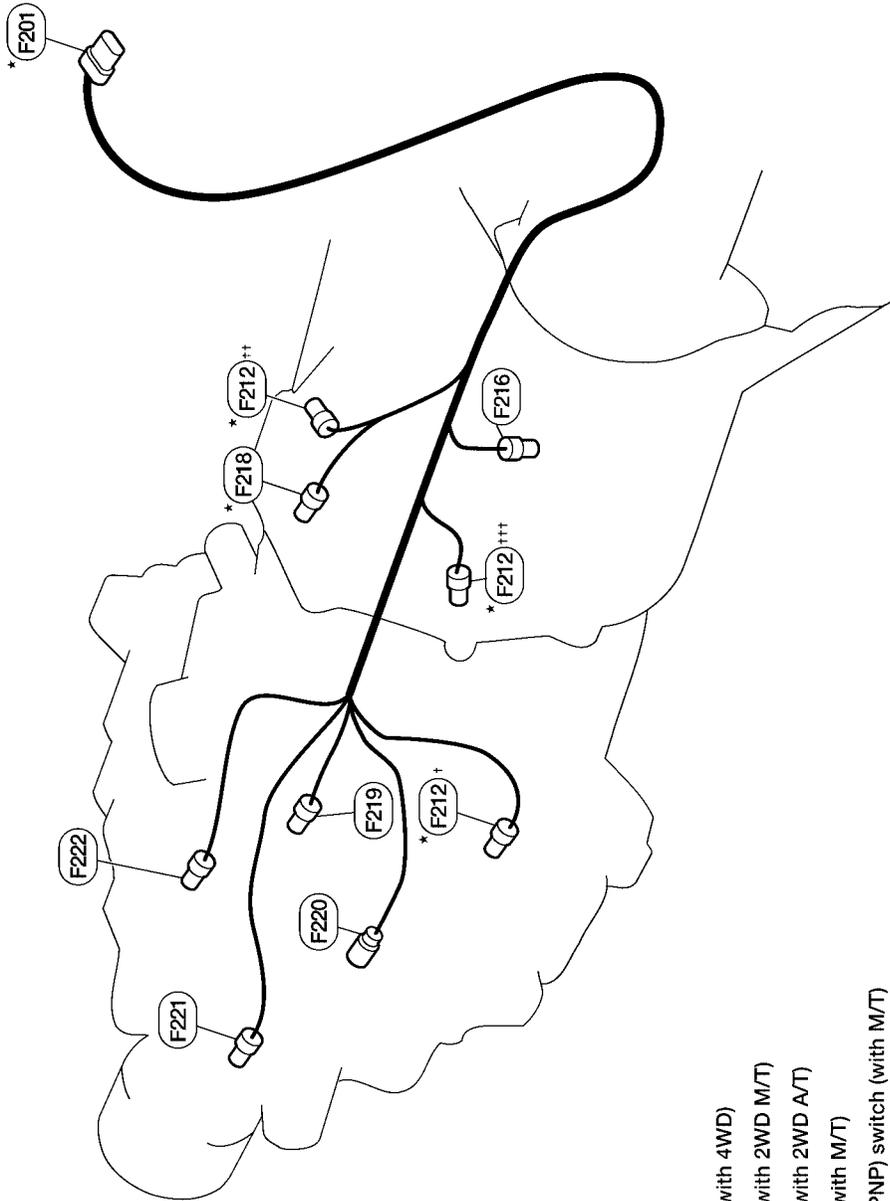
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HARNES LAYOUT

VG33ER



- * (F201) B/8 : To (F43)
- * (F212+) GY/2 : Vehicle speed sensor (with 4WD)
- * (F212)++ GY/2 : Vehicle speed sensor (with 2WD M/T)
- * (F212)+++ GY/2 : Vehicle speed sensor (with 2WD A/T)
- (F216) GY/2 : Back-up lamp switch (with M/T)
- * (F218) B/2 : Park/neutral position (PNP) switch (with M/T)
- (F219) GY/1 : 4WD switch (with M/T)
- (F220) GY/1 : 4WD switch (with M/T)
- (F221) GY/2 : 4WD switch (with A/T)
- (F222) B/2 : Transfer neutral position switch (with A/T)

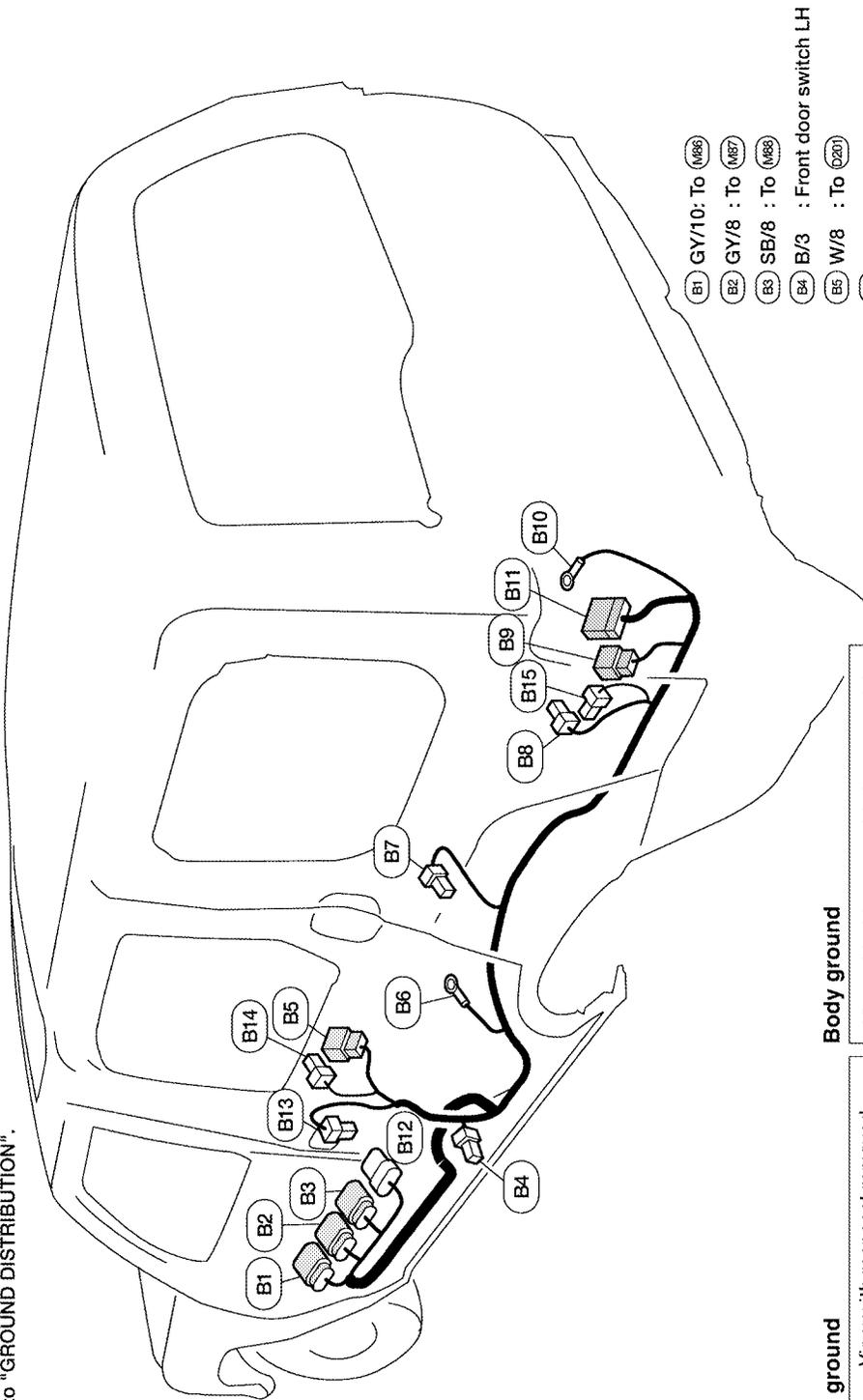
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Do not disconnect these connectors except in the case of working according to **WORK FLOW of TROUBLE DIAGNOSES** in EC and AT sections.

HARNESS LAYOUT

Body Harness

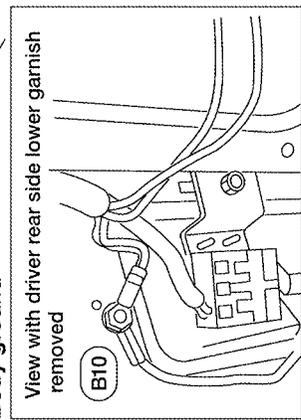
EKS00372

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

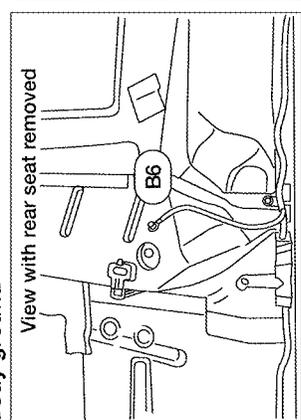


- (B1) GY/10 : To (M86)
- (B2) GY/8 : To (M87)
- (B3) SB/8 : To (M88)
- (B4) B/3 : Front door switch LH
- (B5) W/8 : To (C201)
- (B6) — : Body ground
- (B7) BR/1 : Rear door switch LH
- (B8) W/2 : Rear speaker LH
- (B9) W/6 : Rear combination lamp LH
- (B10) — : Body ground
- (B11) W/16 : To (D401)
- (B12) GY/6 : To (M82)
- (B13) Y/2 : Driver seat belt pretensioner
- (B14) Y/2 : LH side air bag (satellite) sensor
- (B15) W/4 : Subwoofer

Body ground



Body ground



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WKIA1722E

HARNES LAYOUT

Body No. 2 and Chassis Harness

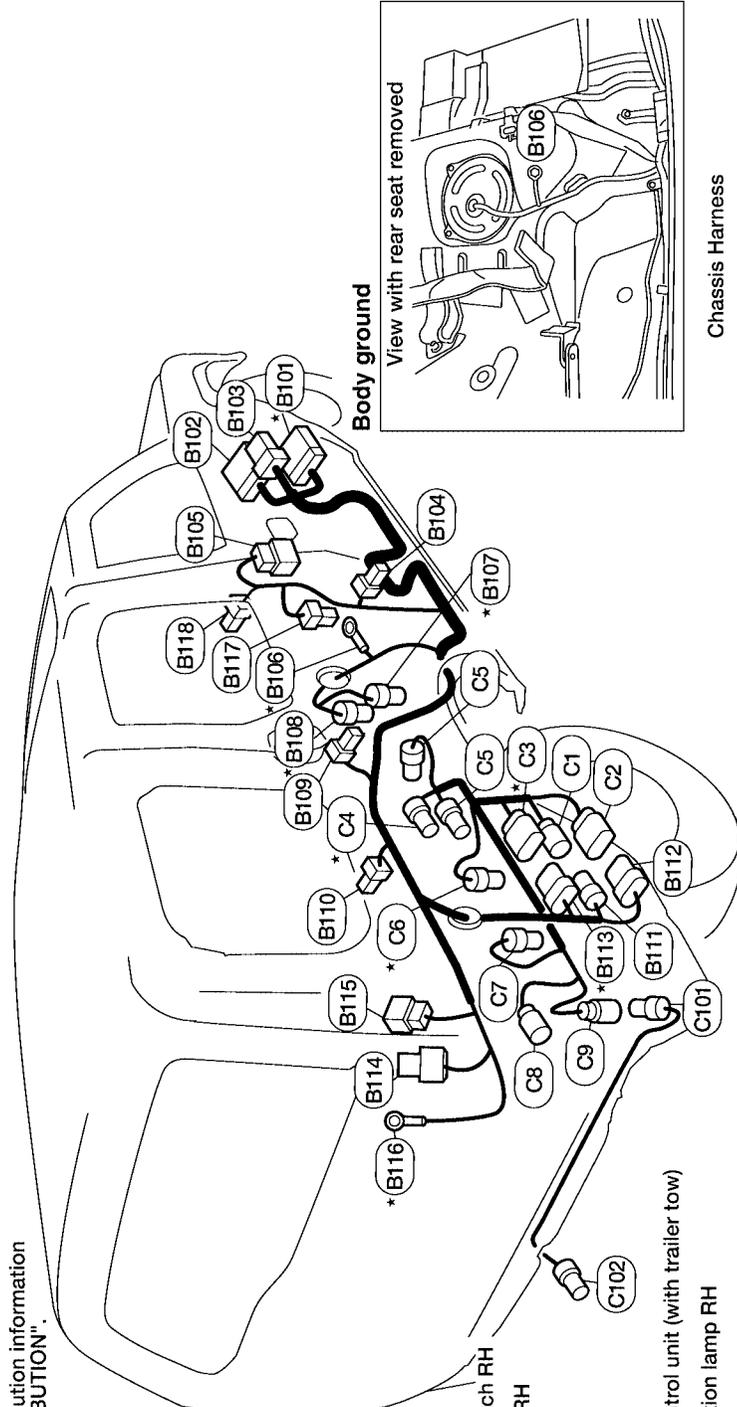
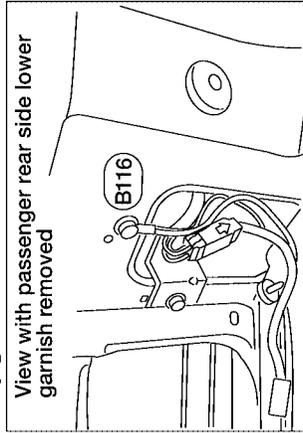
EKS00373

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

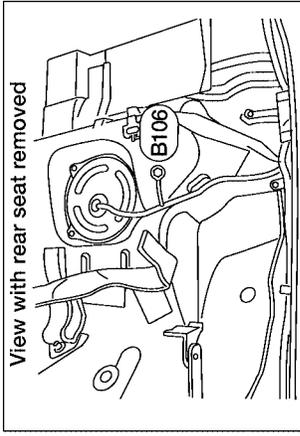
Body Harness No.2

- *B101 W/16 : To M67
- B102 W/12 : To M83
- B103 W/8 : To M87
- B104 BR/1 : Front door switch RH
- B105 W/8 : To D301
- *B106 — : Body ground
- *B107 GY/2 : Fuel pump
- *B108 GY/4 : Fuel level sensor unit
- B109 BR/1 : Rear door switch RH
- B110 W/2 : Rear speaker RH
- B111 GY/4 : To C1
- B112 GY/8 : To C2
- *B113 GY/5 : To C3
- B114 W/8 : Trailer tow control unit (with trailer tow)
- B115 W/6 : Rear combination lamp RH
- *B116 — : Body ground
- B117 Y/2 : Passenger seat belt pretensioner
- B118 Y/2 : RH side air bag (satellite) sensor

Body ground



Body ground



Chassis Harness

- C1 GY/4 : To B111
 - C2 GY/8 : To B112
 - *C3 GY/5 : To B113
 - *C4 BR/3 : EVAP control system pressure sensor
 - C5 GY/2 : Rear wheel sensor (2WD)
 - C6 GY/4 : Rear wheel sensor (4WD)
 - *C8 G/2 : Vacuum cut valve bypass valve
 - *C7 B/2 : EVAP canister vent control valve
 - C8 GY/2 : License plate lamp assembly
 - C9 GY/4 : To C101 (with trailer tow)
- Trailer Tow Sub Harness
- C101 GY/4 : To C9 (with trailer tow)
 - C102 B/4 : SAE J1239 trailer tow connector (with trailer tow)

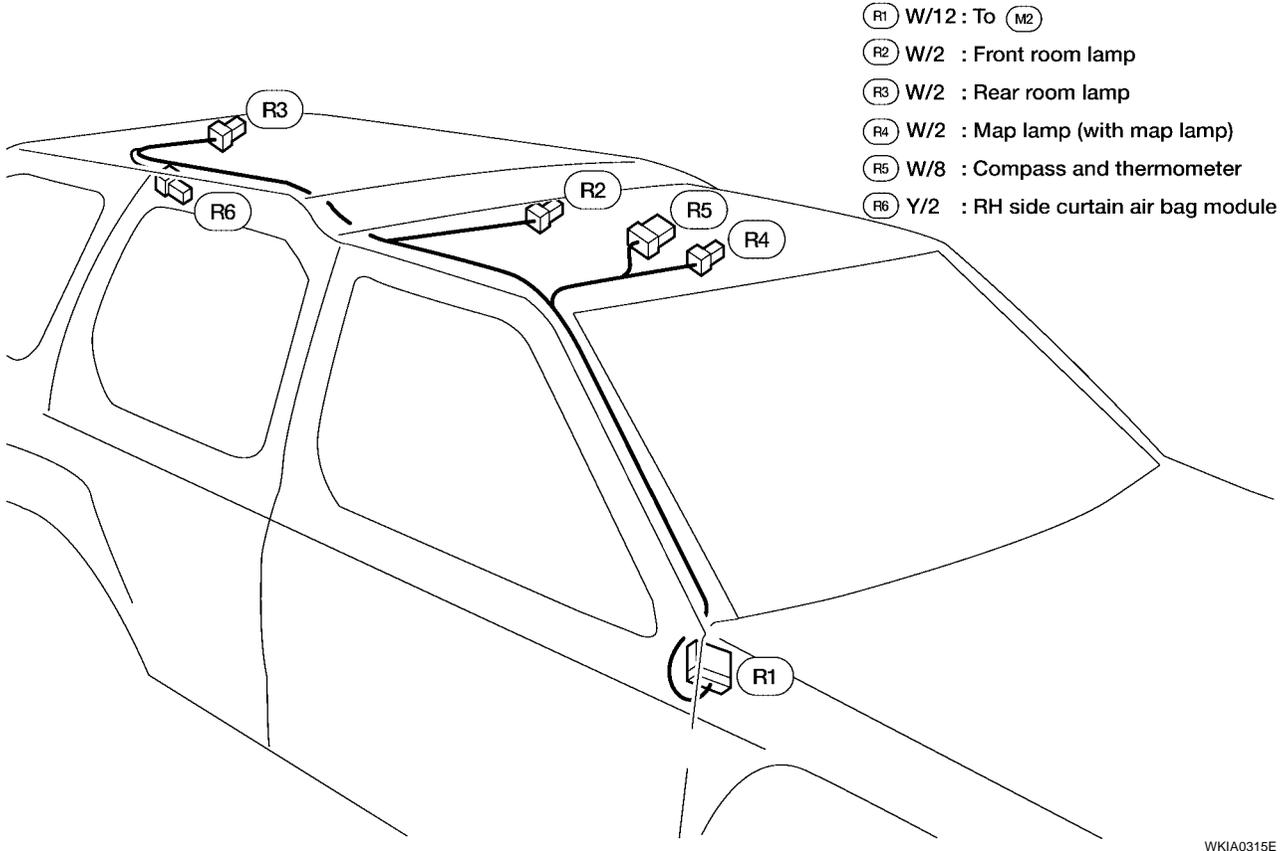
*: Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
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HARNESS LAYOUT

Room Lamp Harness

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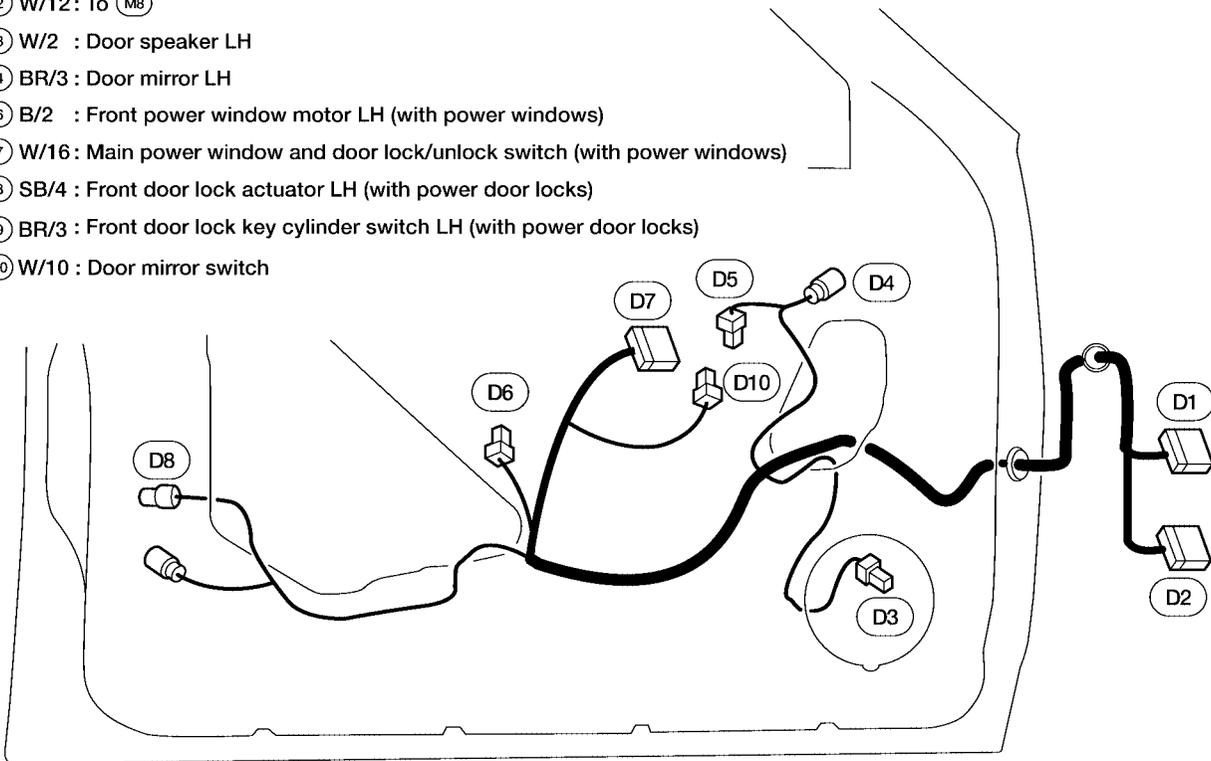


WKIA0315E

Front Door Harness

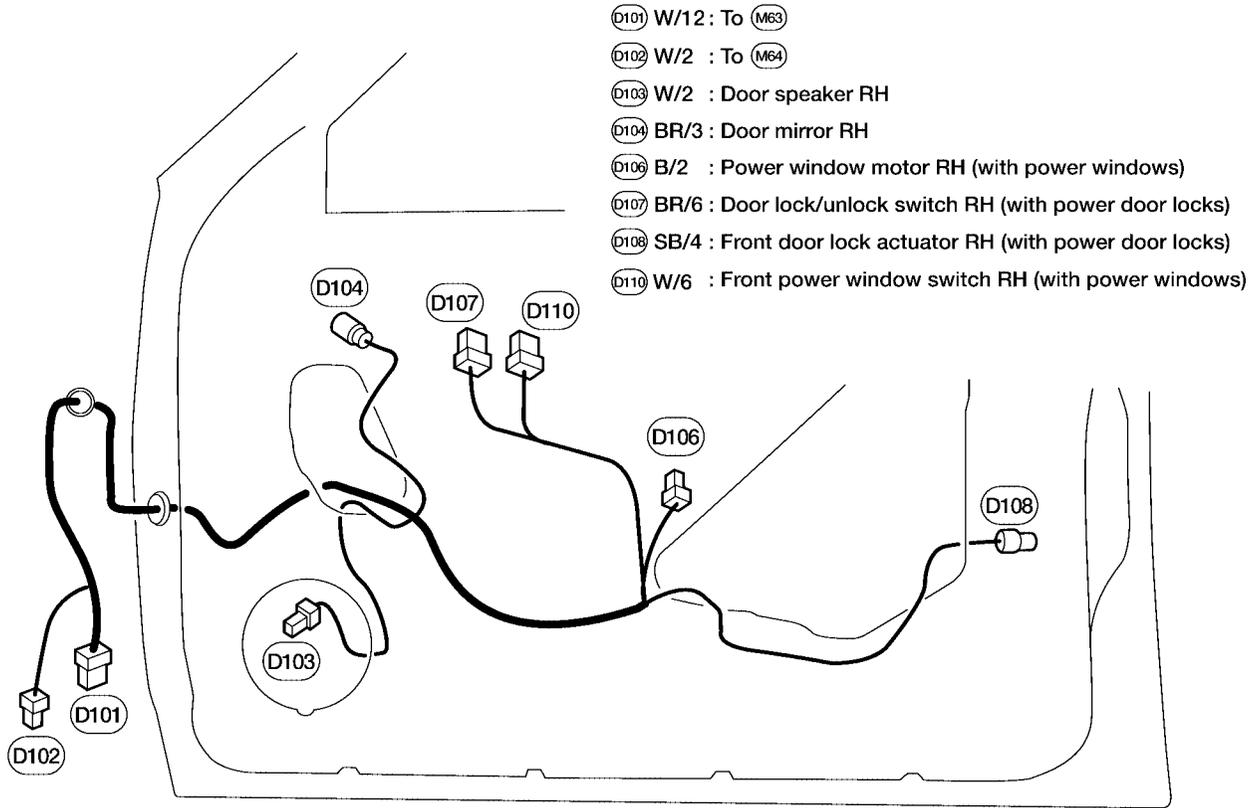
EKS00375

- (D1) W/12: To (M9)
- (D2) W/12: To (M8)
- (D3) W/2 : Door speaker LH
- (D4) BR/3 : Door mirror LH
- (D6) B/2 : Front power window motor LH (with power windows)
- (D7) W/16: Main power window and door lock/unlock switch (with power windows)
- (D8) SB/4 : Front door lock actuator LH (with power door locks)
- (D9) BR/3 : Front door lock key cylinder switch LH (with power door locks)
- (D10) W/10 : Door mirror switch



WKIA0316E

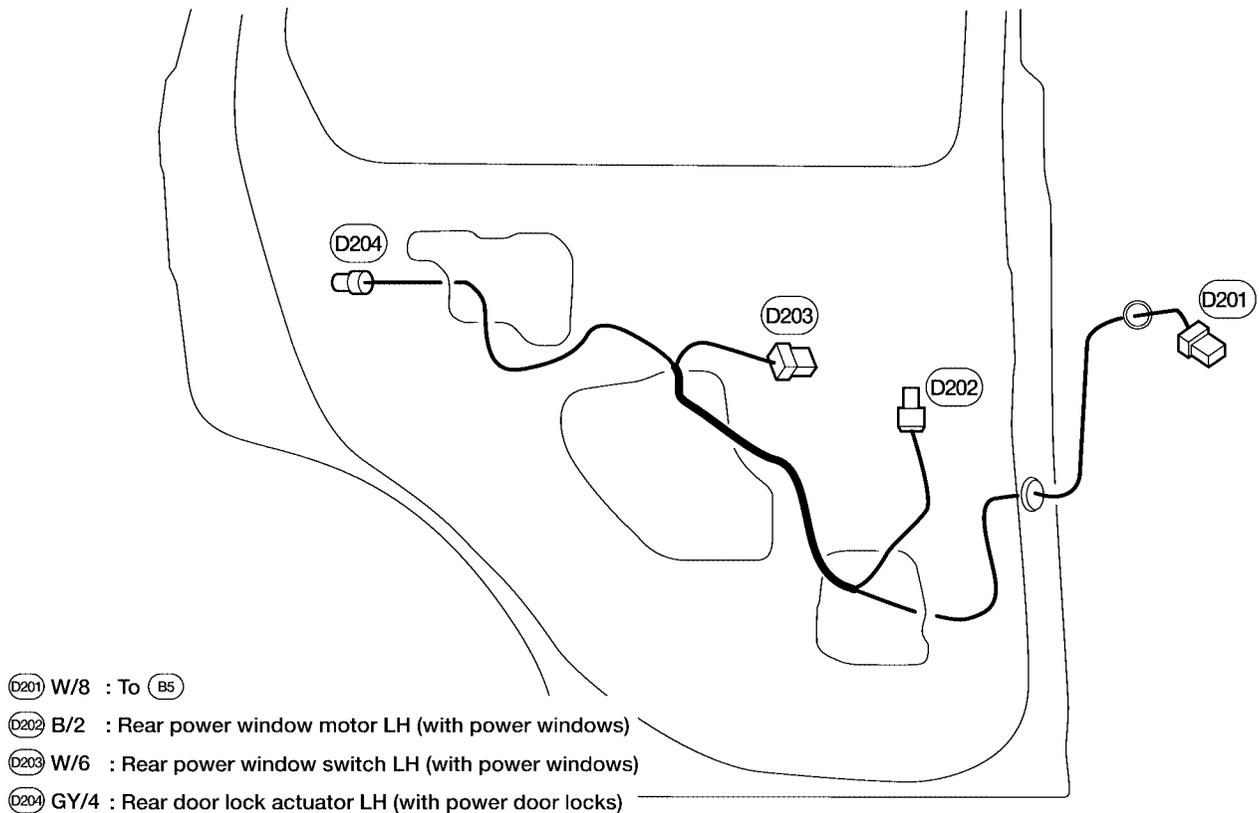
HARNES LAYOUT



WKIA0317E

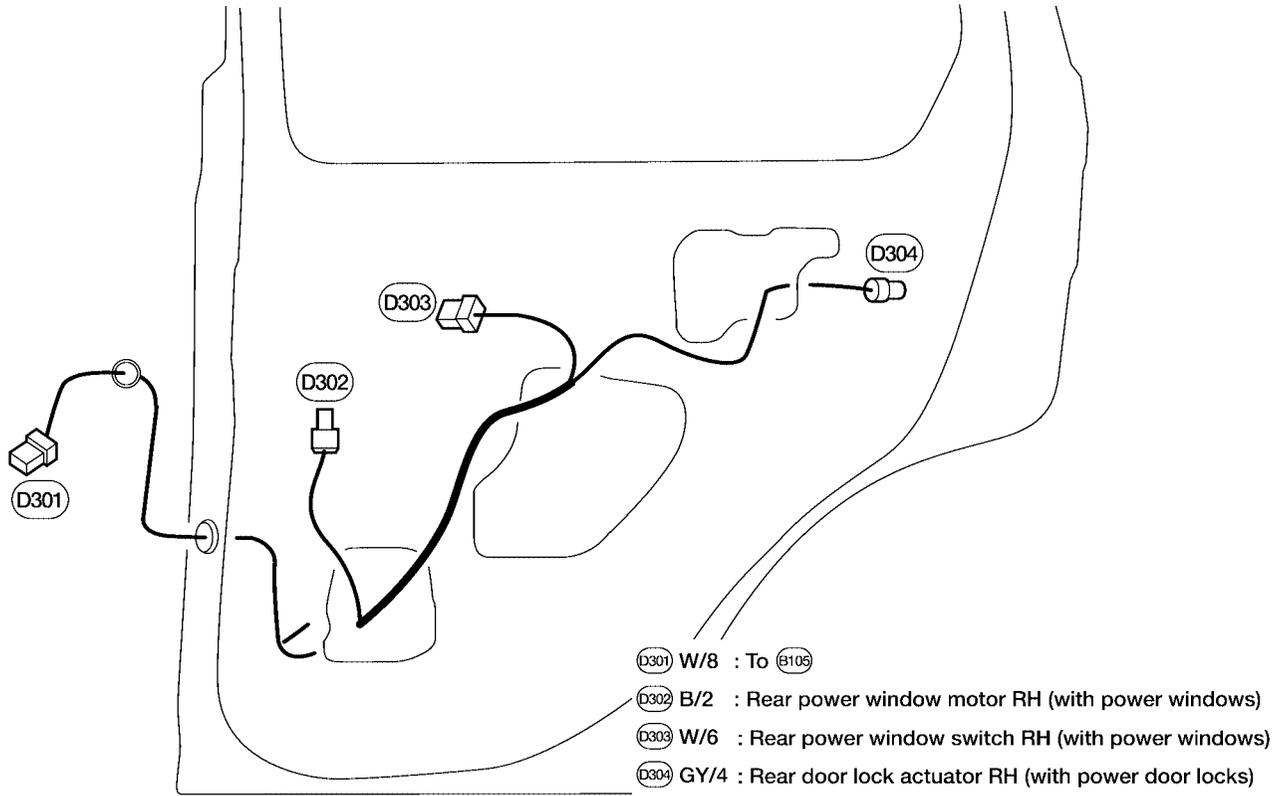
Rear Door Harness

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LEL147A

HARNES LAYOUT



LEL148A

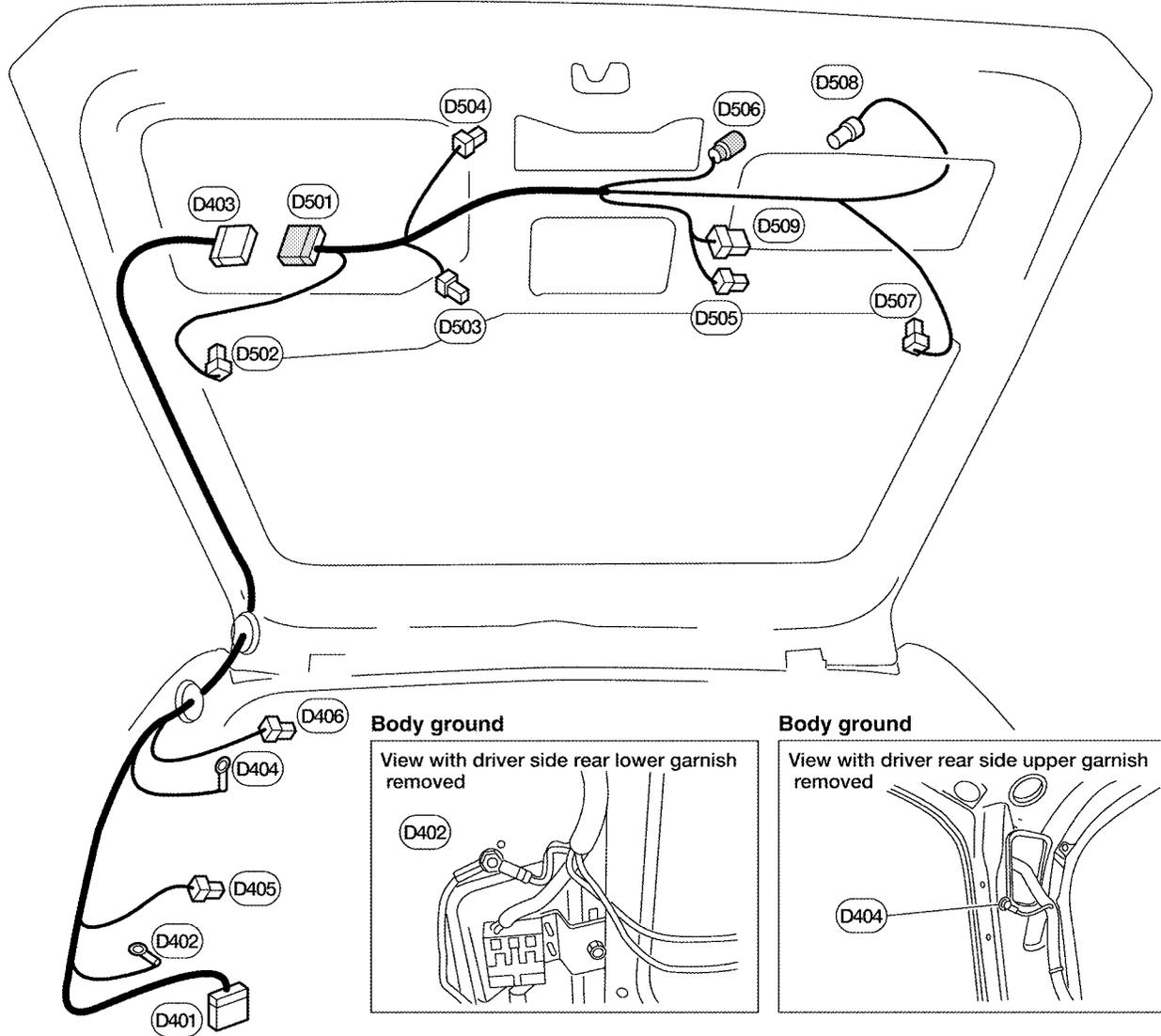
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HARNES LAYOUT

Back Door Harness

EKS00377



Back Door No. 2 Harness

- (D401) W/16 : To (B11)
- (D402) — : Body ground
- (D403) W/16 : To (D501)
- (D404) — : Body ground
- (D405) B/2 : Rear power socket
- (D406) Y/2 : LH side curtain air bag module

Back Door Harness

- (D501) W16 : To (D403)
- (D502) B/1 : Rear window defogger (+)
- (D503) W/2 : High mounted stop lamp
- (D504) B/2 : Back door switch
- (D505) W/4 : Rear wiper motor (with rear wiper)
- (D506) BR/3 : Back door key cylinder switch (with power door locks)
- (D507) B/1 : Rear window defogger (-)
- (D508) SB/4 : Back door lock actuator (with power door locks)
- (D509) B/8 : Rear wiper amp.

WKIA1723E

HARNES LAYOUT

Wiring Diagram Codes (Cell Codes)

EKS003MX

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
ABS	BRC	Anti-Lock Brake System
A/C,M	MTC	Manual Air Conditioner
ASCD	ASC	Automatic Speed Control Device
AT/C	EC	A/T Control
AT/DIAG	EC	A/T Diagnosis Communication Line
AUDIO	AV	Audio
BACK/L	LT	Back-up Lamp
BA/FTS	AT	A/T Fluid Temperature Sensor and TCM Power Supply
BYPS/V	EC	Vacuum Cut Valve Bypass Valve
CAN	EC	CAN Communication Line
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
CIGAR	WW	Cigarette Lighter
CKPS	EC	Crank Shaft Position Sensor (OBD)
CMPS	EC	Camshaft Position Sensor (OBD)
COMPAS	DI	Compass and Thermometer
DEF	GW	Rear Window Defogger
D/LOCK	BL	Power Door Lock
DTRL	LT	Headlamp - With Daytime Light System
ECTS	EC	Engine Coolant Temperature Sensor
EGRC/V	EC	EGRC - Solenoid Valve
EGRC1	EC	EGR Function
EGR/TS	EC	EGR Temperature Sensor
ENGSS	AT	Engine Speed Signal
F/FOG	LT	Front Fog Lamp
FICD	EC	IACV-FICD Solenoid Valve
FLS1	EC	Fuel Level Sensor Function (SLOSH)
FLS2	EC	Fuel Level Sensor Circuit
FLS3	EC	Fuel Level Sensor Circuit (Ground Signal)
F/PUMP	EC	Fuel Pump
FTS	AT	A/T Fluid Temperature Sensor
FTTS	EC	Fuel Tank Temperature Sensor
FUEL	EC	Fuel Injection System Function
FUELB1	EC	Fuel Injection System Function (Bank 1)
FUELB2	EC	Fuel Injection System Function (Bank 2)
H/LAMP	LT	Headlamp
HO2S1	EC	Heated Oxygen Sensor 1
HO2S1H	EC	Heated Oxygen Sensor 1 Heater
HO2S2	EC	Heated Oxygen Sensor 2

HARNES LAYOUT

HO2S2H	EC	Heated Oxygen Sensor 2 Heater
HORN	WW	Horn
IATS	EC	Intake Air Temperature Sensor
IGN/SG	EC	Ignition Signal
ILL	LT	Illumination
INJECT	EC	Injector
KEYLES	BL	Remote Keyless Entry System
KS	EC	Knock Sensor
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 and Data Link Connectors
MIRROR	GW	Door Mirror
NONDTC	AT	Non-detectable Items
O2H1B1	EC	Heated Oxygen Sensor 1 Heater Bank 1
O2H1B2	EC	Heated Oxygen Sensor 1 Heater Bank 2
O2H2B1	EC	Rear Heated Oxygen Sensor 2 Heater Bank 1
O2H2B2	EC	Rear Heated Oxygen Sensor 2 Heater Bank 2
O2S1B1	EC	Heated Oxygen Sensor 1 Bank 1
O2S1B2	EC	Heated Oxygen Sensor 1 Bank 2
O2S2B1	EC	Heated Oxygen Sensor 2 Bank 1
O2S2B2	EC	Heated Oxygen Sensor 2 Bank 2
OVRCSV	AT	Over Run Clutch Solenoid Valve
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve
PNP/SW	AT	Park/Neutral Position Switch
PNP/SW	EC	Park/Neutral Position Switch
POWER	PG	Power Supply Routing
PRE/SE	EC	EVAP Control System Pressure Sensor
PST/SW	EC	Power Steering Oil Pressure Switch
ROOM/L	LT	Interior Room Lamp
S/CHGR	EC	Supercharger Bypass Valve Control
SHIFT	AT	A/T Shift Lock System
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
TAIL/L	LT	Parking, License and Tail Lamps
TCCSIG	AT	A/T TCC Signal (Lock Up)
TCV	AT	Torque Converter Clutch Solenoid Valve
TPS	AT	Throttle Position Sensor
TPS	EC	Throttle Position Sensor
TP/SW	EC	Throttle Position Switch
TRSA/T	AT	Turbine Revolution Sensor
T/TOW	LT	Trailer Tow
TURN	LT	Turn Signal and Hazard Warning Lamps
T/WARN	WT	Low Tire Pressure Warning System
VDC	BRC	Vehicle Dynamics Control System
VEHSEC	BL	Vehicle Security System

HARNESS LAYOUT

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 Meter
WARN	DI	Warning Lamps
WINDOW	GW	Power Window
WIPER	WW	Front Wiper and Washer
WIP/R	WW	Rear Wiper and Washer

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SUPER MULTIPLE JUNCTION (SMJ)

SUPER MULTIPLE JUNCTION (SMJ)

PFP:84341

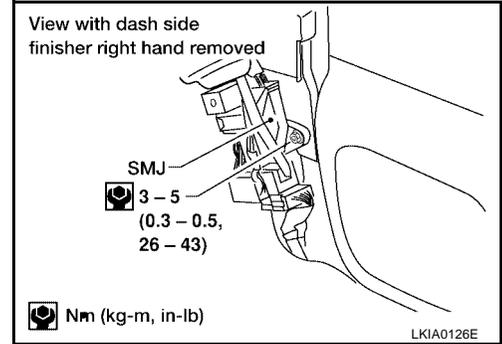
Installation

EKS0037A

Securely fit and lock SMJ connectors. Tighten harness bracket bolt to the specified torque.



**: 3 - 5 N·m (0.3 - 0.5 kg-m,
26 - 43 in-lb)**



SUPER MULTIPLE JUNCTION (SMJ)

Terminal Arrangement

EKS0037B

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MAIN HARNESS

(M65)

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



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

(E43)

ENGINE ROOM HARNESS

AEL646B

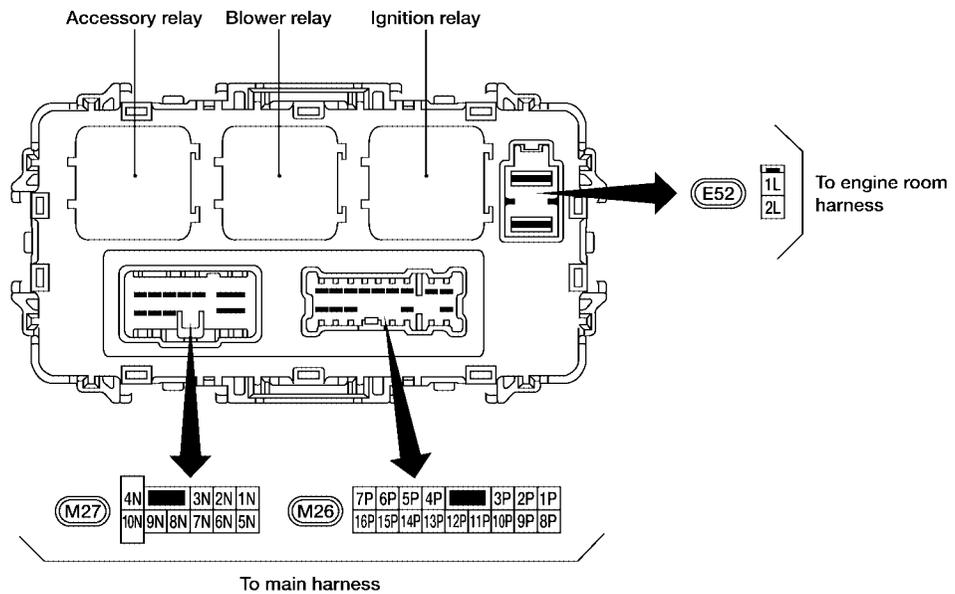
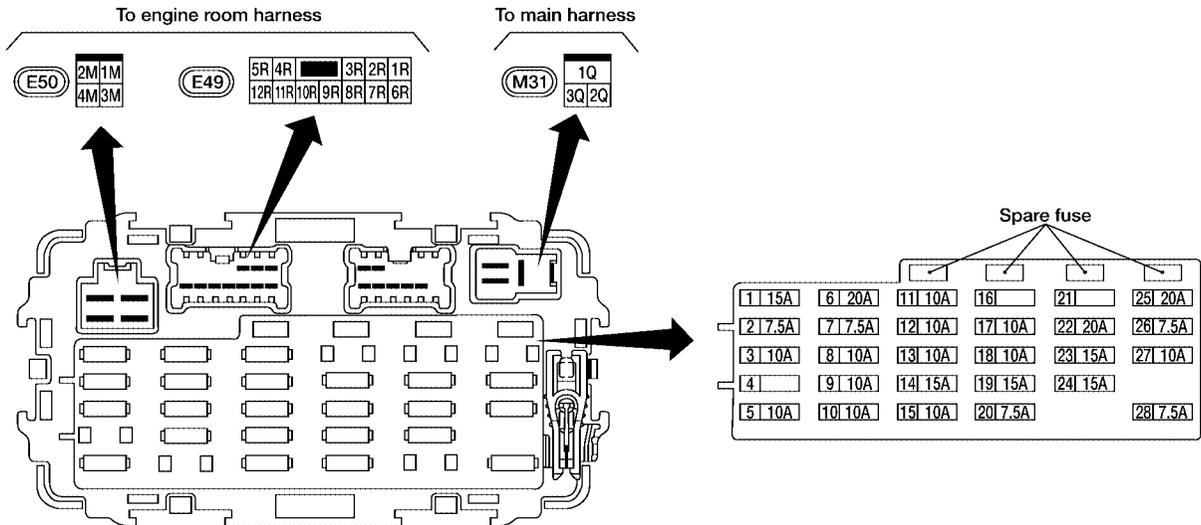
FUSE BLOCK — JUNCTION BOX (J/B)

FUSE BLOCK — JUNCTION BOX (J/B)

PF2:24350

Terminal Arrangement

EKS0037C



WEL913A

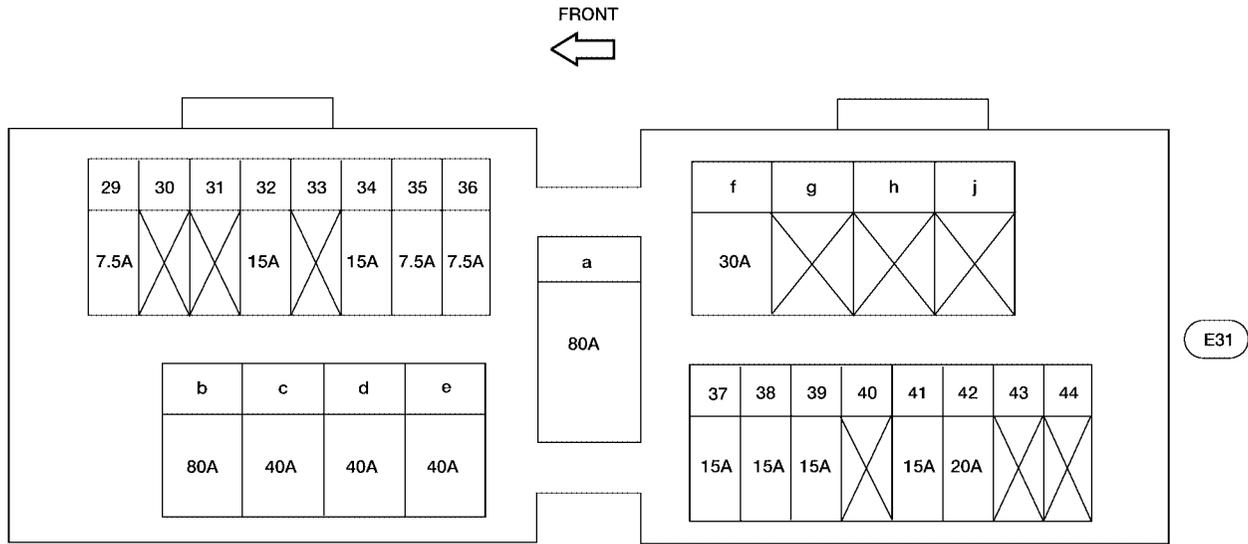
FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX Terminal Arrangement

PF24381

EKS0037D

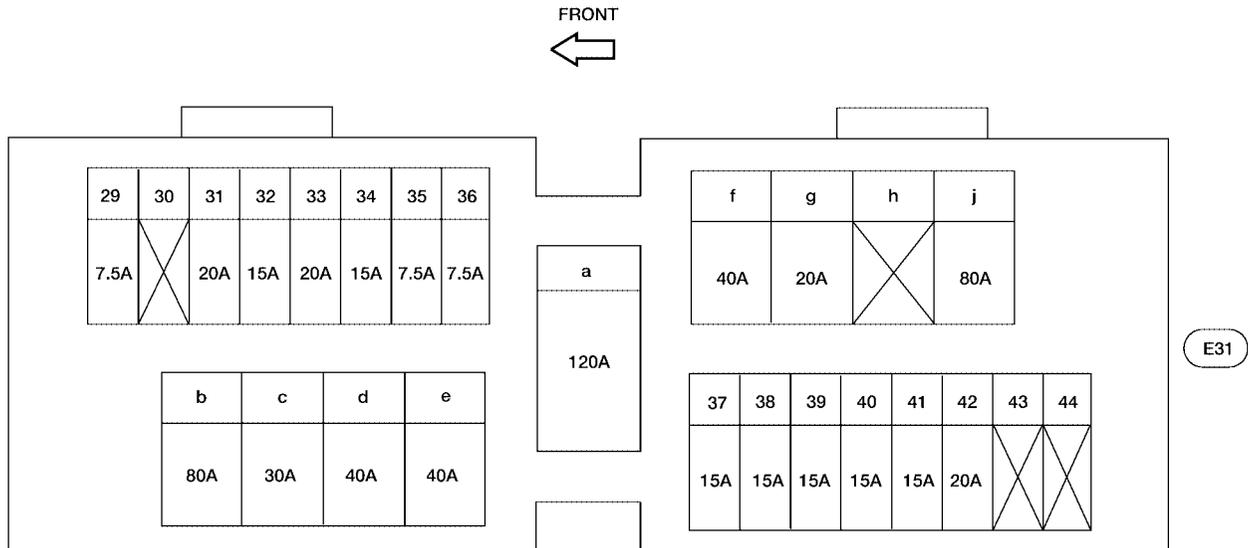
For KA24DE



No. 29 - 44: FUSE

a - j: FUSIBLE LINK

For VG33E and VG33ER



No. 29 - 44: FUSE

a - j: FUSIBLE LINK

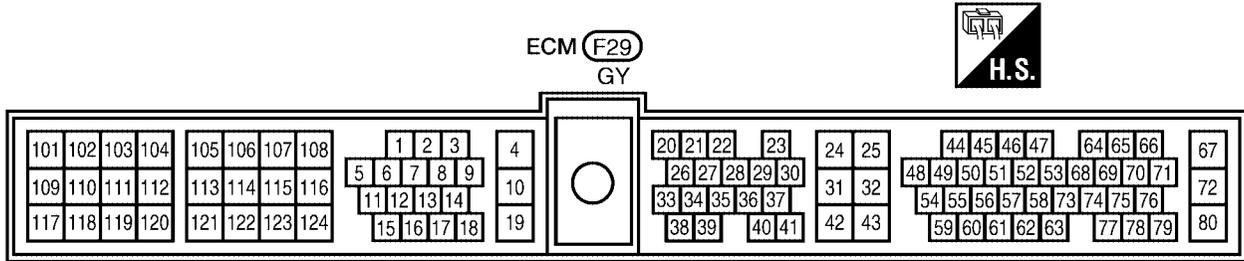
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ELECTRICAL UNITS

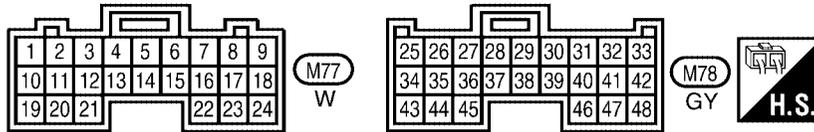
PF2:25230

EKS0037F

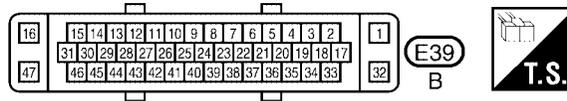
ELECTRICAL UNITS Terminal Arrangement



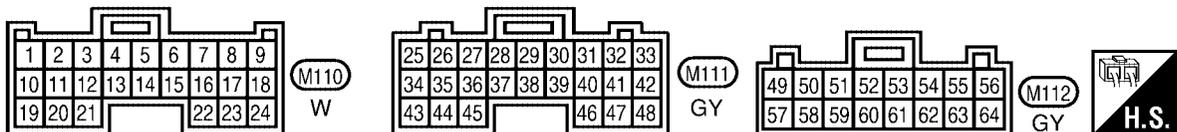
TCM (TRANSMISSION CONTROL MODULE)



ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



SMART ENTRANCE CONTROL UNIT



WKIA0319E