SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

PRECAUTIONS

PFP:00001

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

EKS003OC

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

EKS0036M

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.

HARNESS CONNECTOR

PFP:24010

Description

EKS003NX

HARNESS CONNECTOR (TAB-LOCKING TYPE)

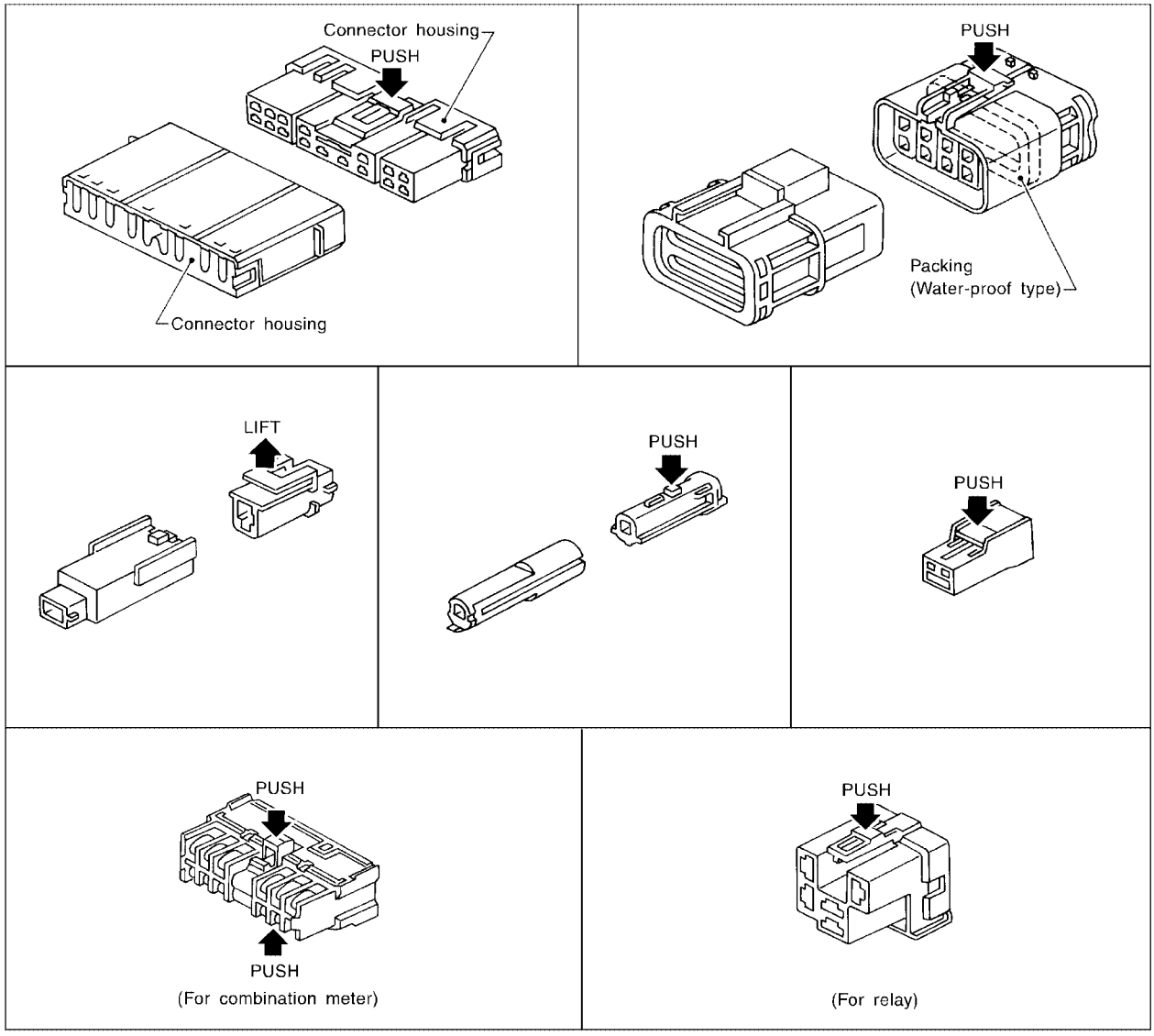
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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 (SLIDE-LOCKING TYPE)

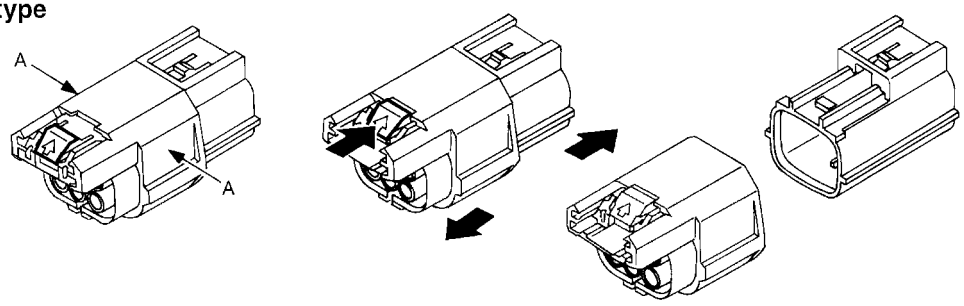
- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide-locking type connectors are disconnected by pushing or pulling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

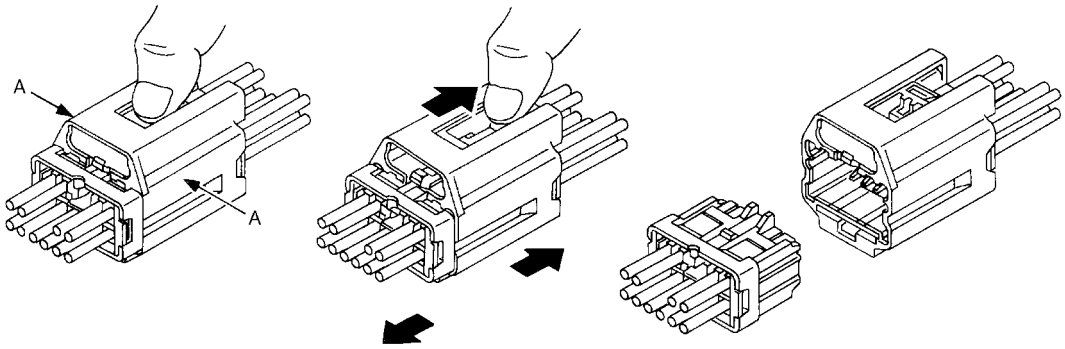


① Firmly grasp shell of connector housing at A.

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.

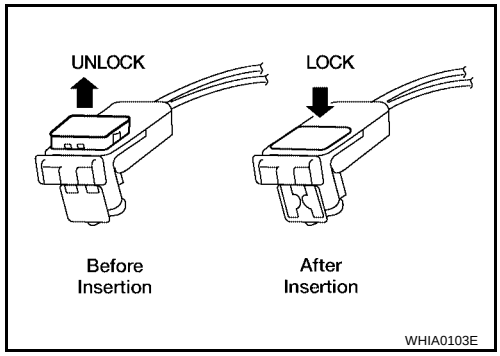
AEL299C

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.**



STANDARDIZED RELAY

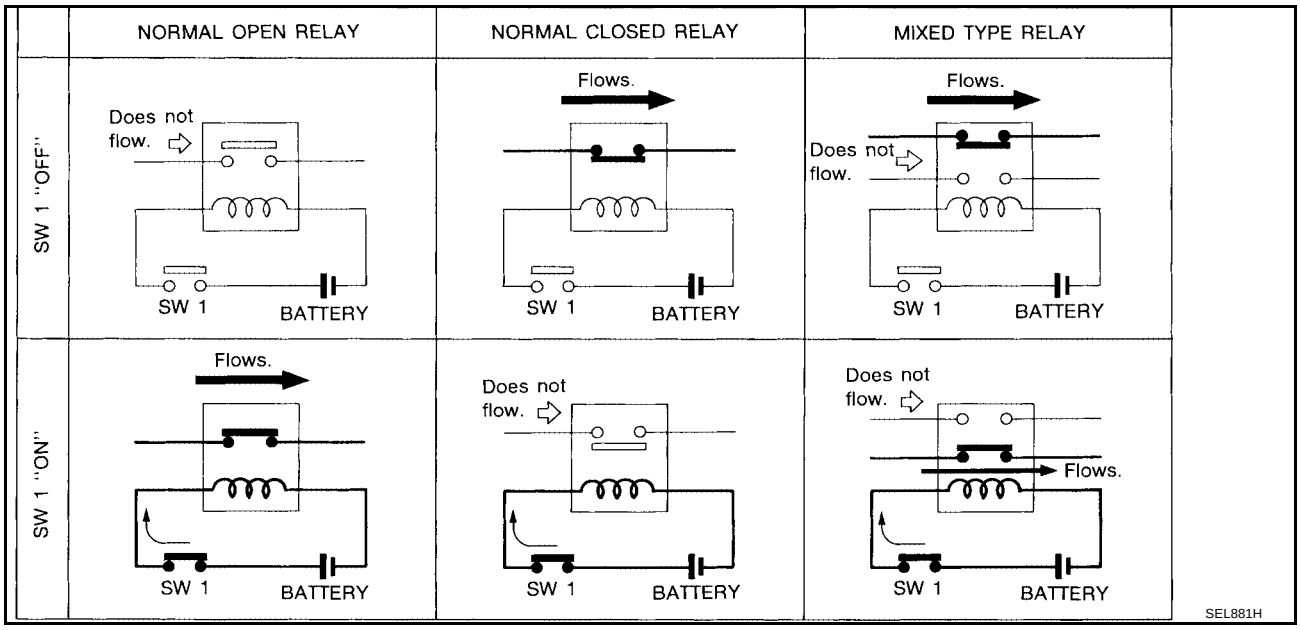
PFP:25230

Description

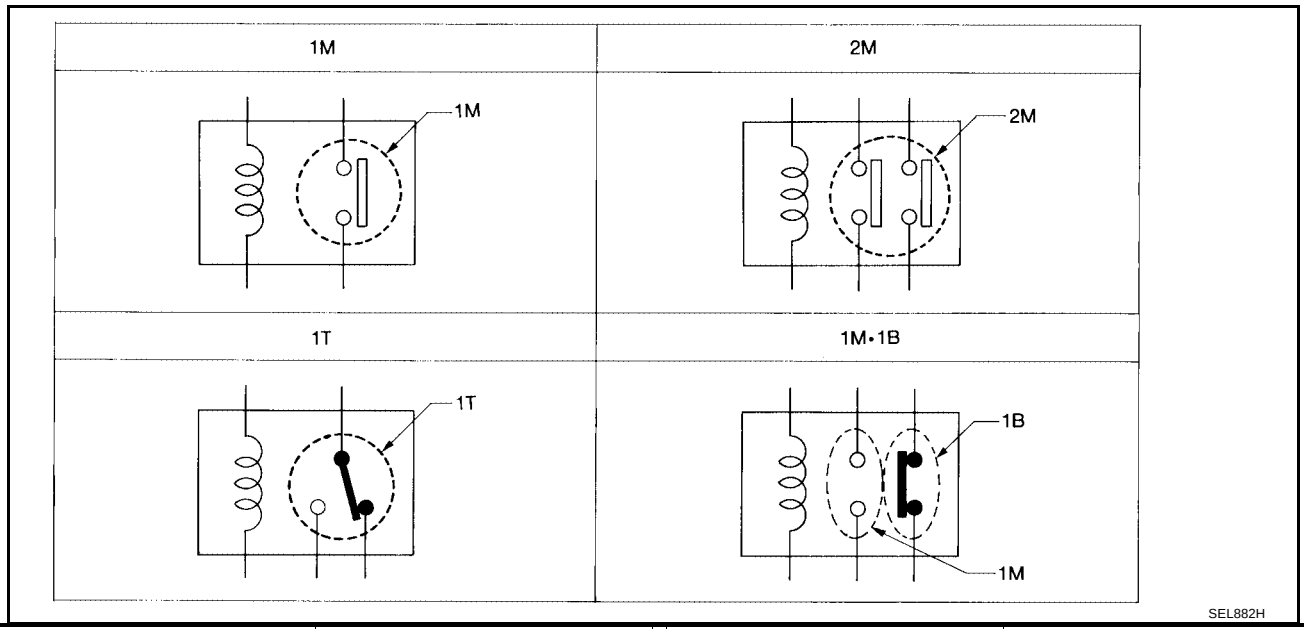
EKS0036P

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

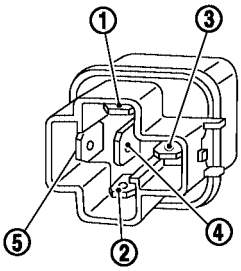
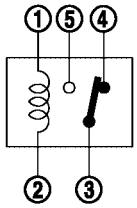
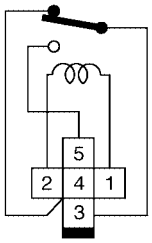
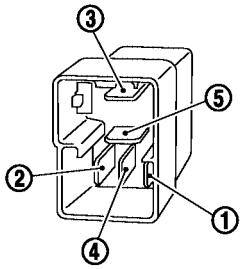
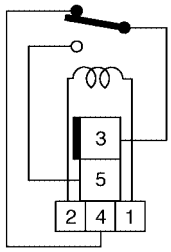
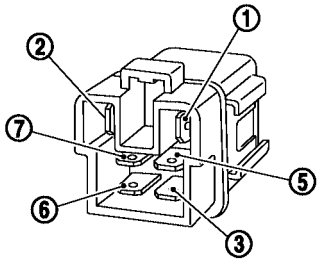
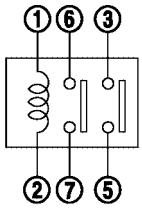
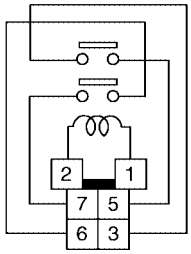
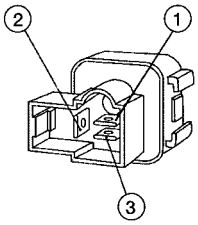
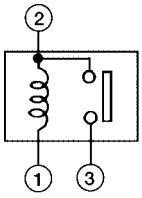
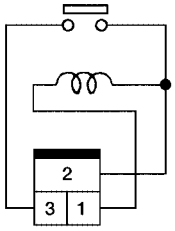
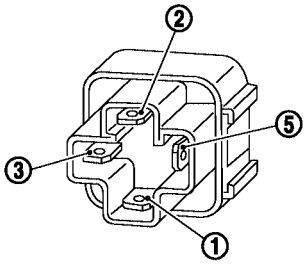
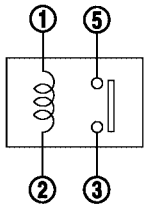
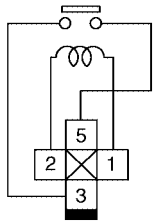
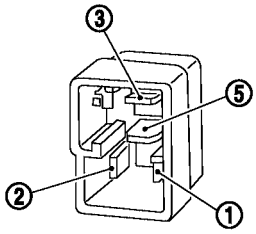
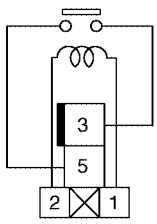
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



TYPE OF STANDARDIZED RELAYS



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

Type	Outer view	Circuit	Connector symbol and connector	Case color
1T				BLACK
				
2M				BROWN
1M				BLACK
				BLUE
				

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

WKIA0321E

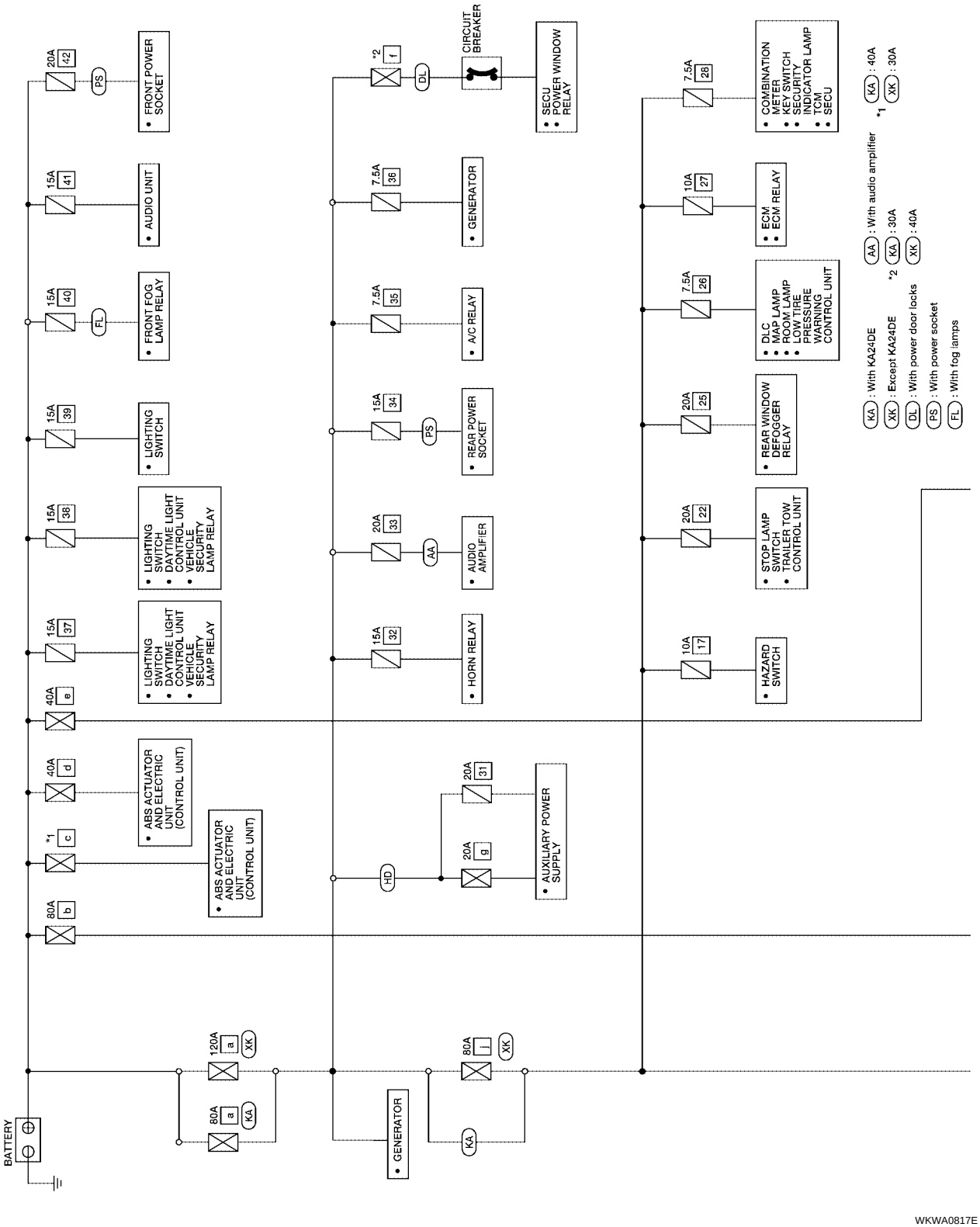
POWER SUPPLY ROUTING

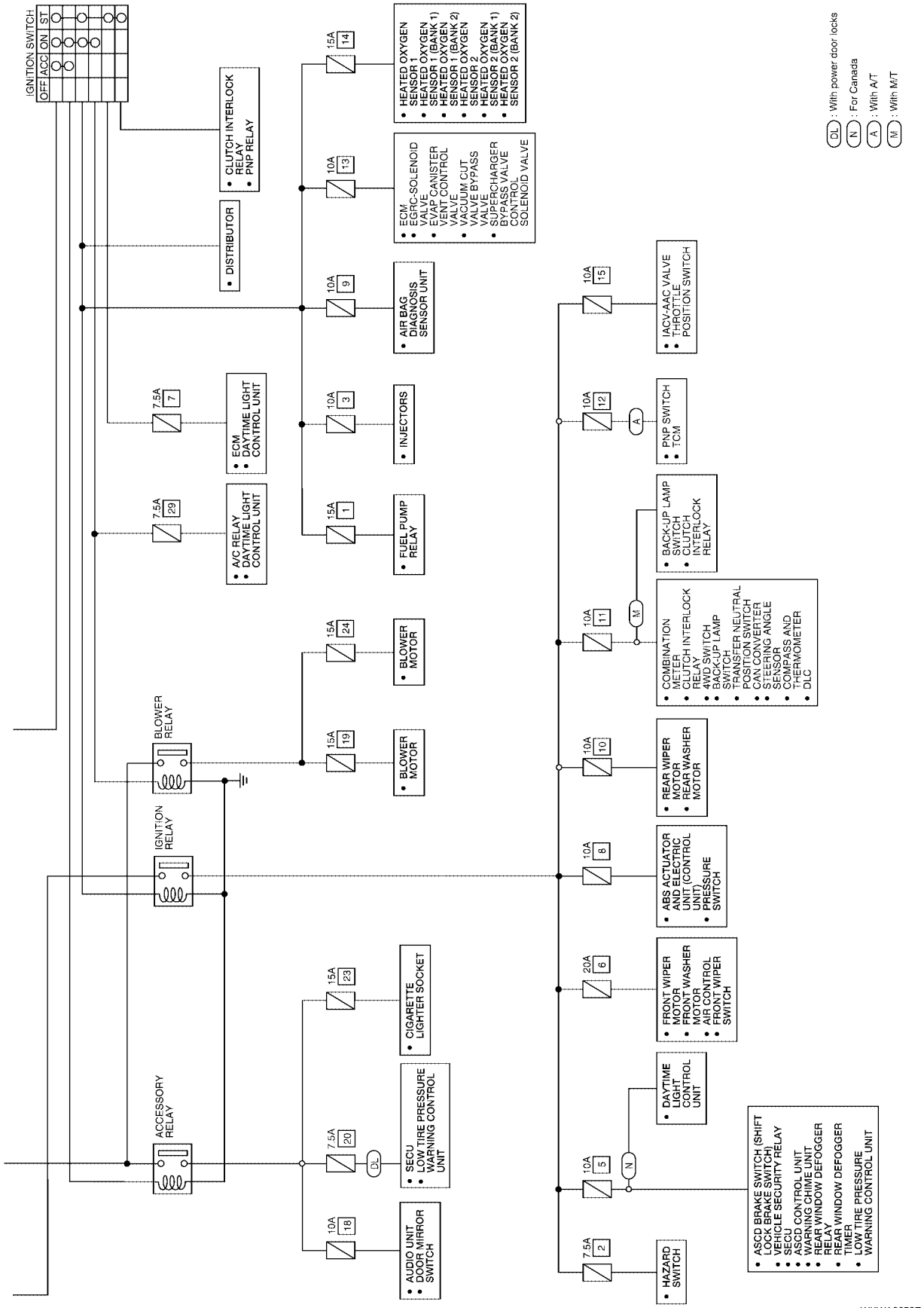
PFP:24110

Circuit Diagram

EKS0036Q

NOTE:
For detailed ground distribution information, refer to PG-16, "Ground Distribution" .




IGNITION SWITCH
OFF ACC ON ST
CLUTCH INTERLOCK RELAY
PNP RELAY
DISTRIBUTOR
HEATED OXYGEN SENSOR 1
HEATED OXYGEN SENSOR 1 (BANK 1)
HEATED OXYGEN SENSOR 1 (BANK 2)
HEATED OXYGEN SENSOR 2
HEATED OXYGEN SENSOR 2 (BANK 1)
HEATED OXYGEN SENSOR 2 (BANK 2)
ECM
EGRC-SOLENOID VALVE
EVAP CANISTER VENT CONTROL VALVE
VACUUM CUT VALVE BYPASS VALVE
SUPERCHARGER BYPASS VALVE CONTROL SOLENOID VALVE
AIR BAG DIAGNOSIS SENSOR UNIT
ECM
DAYTIME LIGHT CONTROL UNIT
INJECTORS
A/C RELAY
DAYTIME LIGHT CONTROL UNIT
FUEL PUMP RELAY
BLOWER MOTOR
BLOWER MOTOR
BLOWER RELAY
IGNITION RELAY
ACCESSORY RELAY
CIGARETTE LIGHTER SOCKET
SECU
LOW TIRE PRESSURE WARNING CONTROL UNIT
AUDIO UNIT
DOOR MIRROR SWITCH
IACV-AAC VALVE
THROTTLE POSITION SWITCH
PNP SWITCH
TCM
BACK-UP LAMP SWITCH
CLUTCH INTERLOCK RELAY
COMBINATION METER
CLUTCH INTERLOCK RELAY
4WD SWITCH
BACK-UP LAMP SWITCH
TRANSFER NEUTRAL POSITION SWITCH
CAN CONVERTER
STEERING ANGLE SENSOR
COMPASS AND THERMOMETER
DLC
REAR WIPER MOTOR
REAR WASHER MOTOR
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
PRESSURE SWITCH
FRONT WIPER MOTOR
FRONT WASHER MOTOR
AIR CONTROL
FRONT WIPER SWITCH
DAYTIME LIGHT CONTROL UNIT
HAZARD SWITCH
ASCD BRAKE SWITCH (SHIFT LOCK BRAKE SWITCH)
VEHICLE SECURITY RELAY
SECU
ASCD CONTROL UNIT
WARNING CHIME UNIT
REAR WINDOW DEFOGGER RELAY
REAR WINDOW DEFOGGER TIMER
LOW TIRE PRESSURE WARNING CONTROL UNIT
DL : With power door locks
N : For Canada
A : With A/T
M : With M/T
WKWA0652E

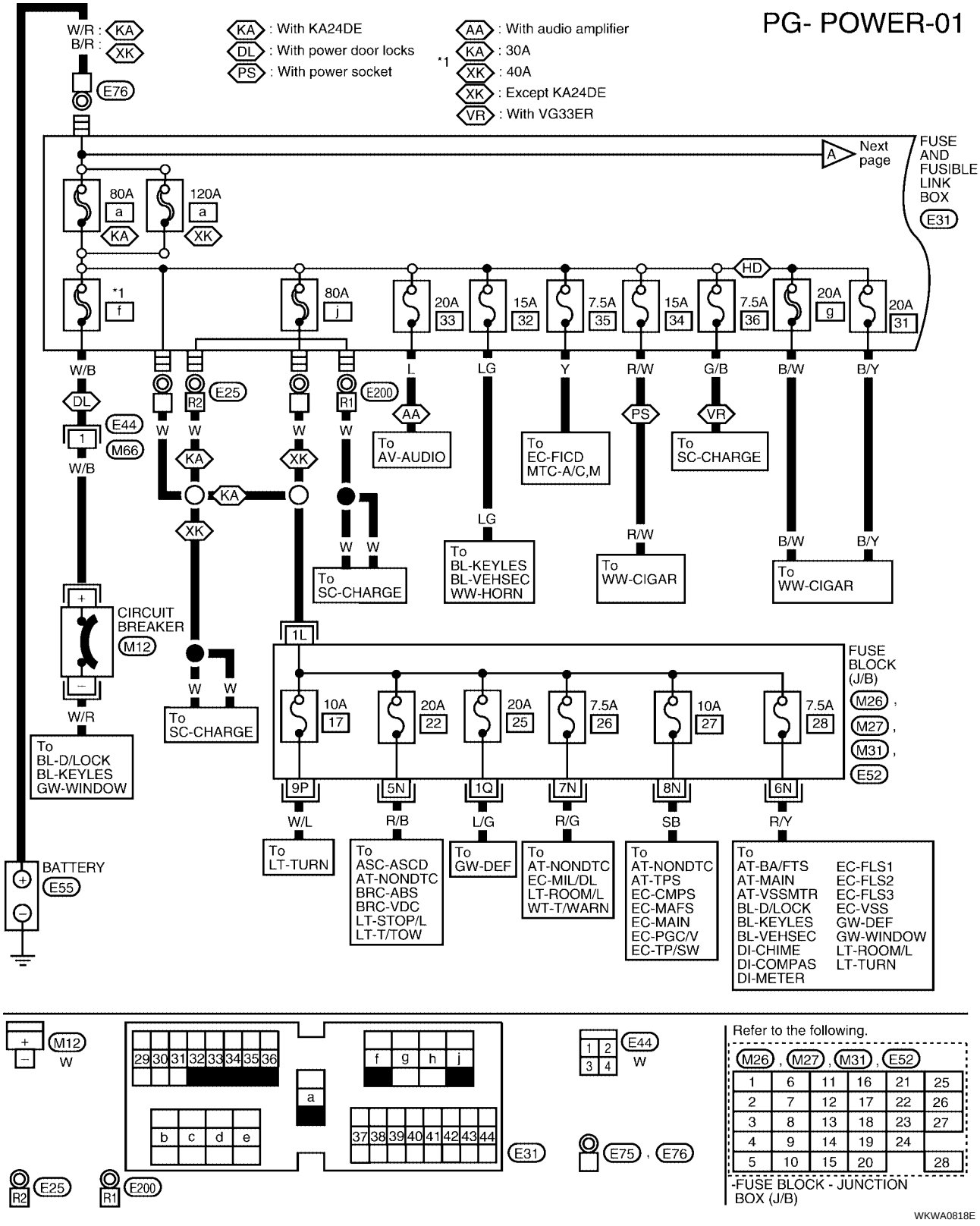
Wiring Diagram — POWER —

EKS0036R

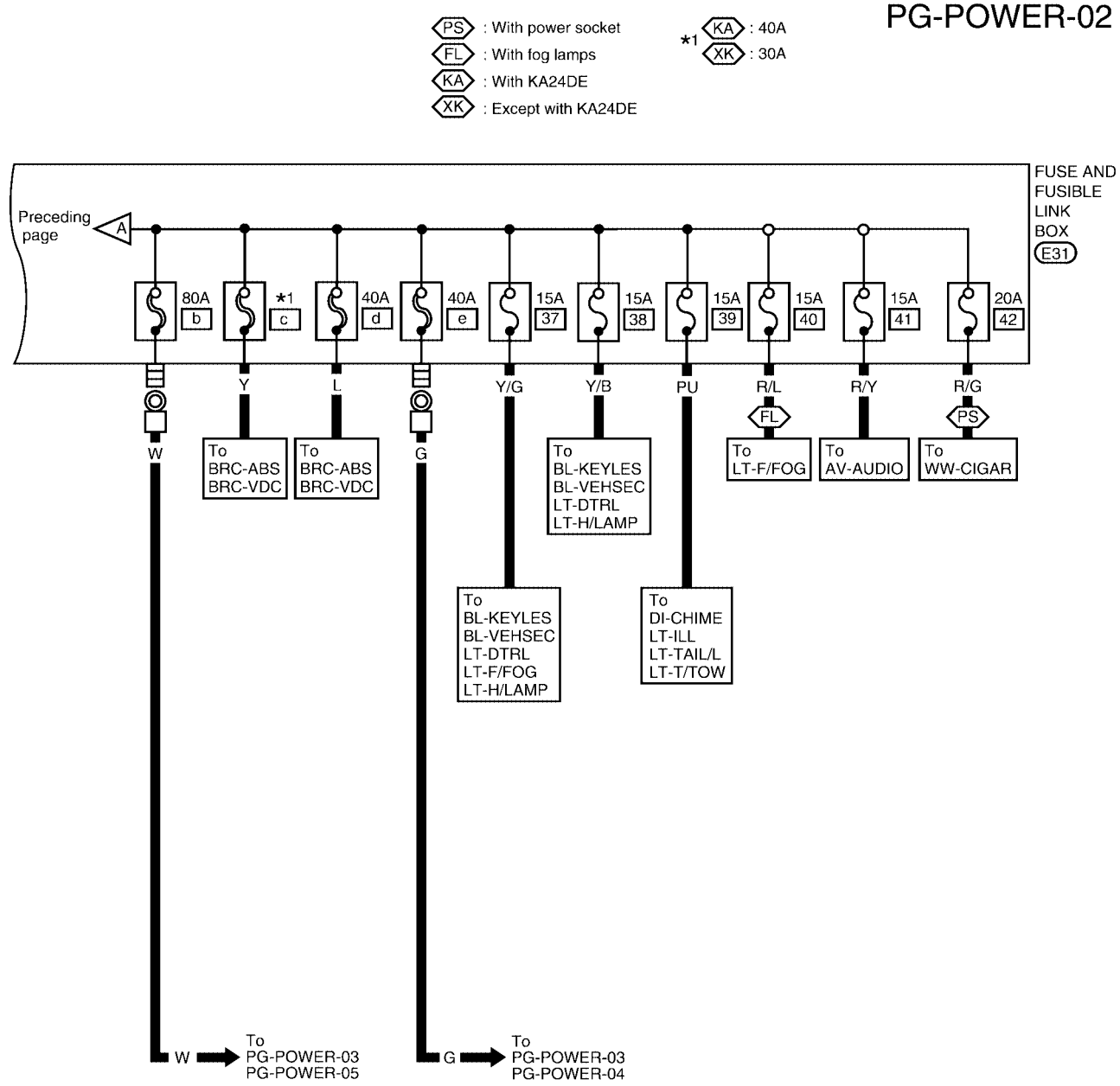
BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION

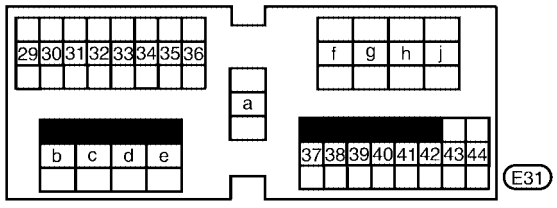
NOTE:

For detailed ground distribution information, refer to PG-16, "Ground Distribution" .



PG-POWER-02





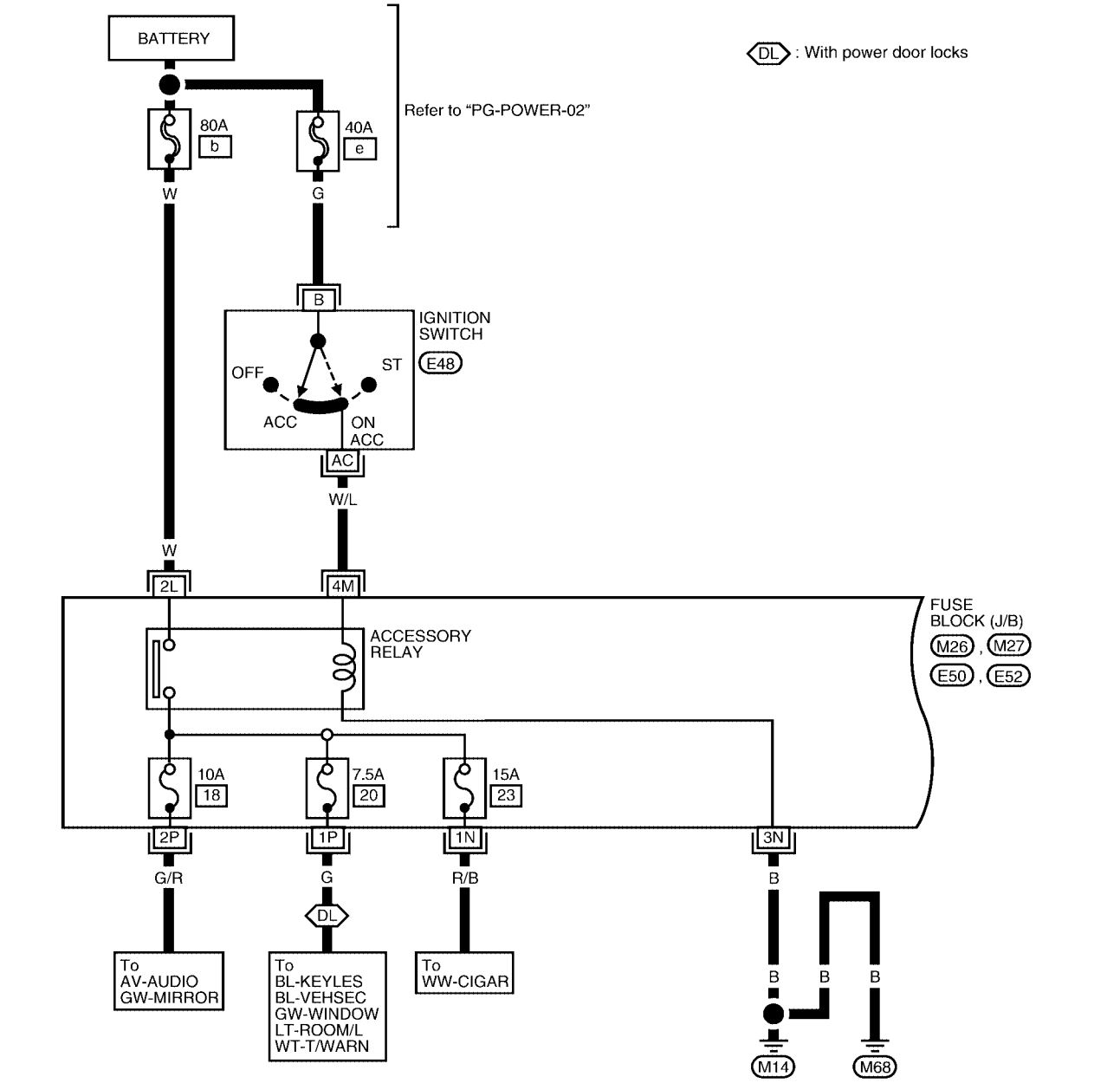
WKWA0324E

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

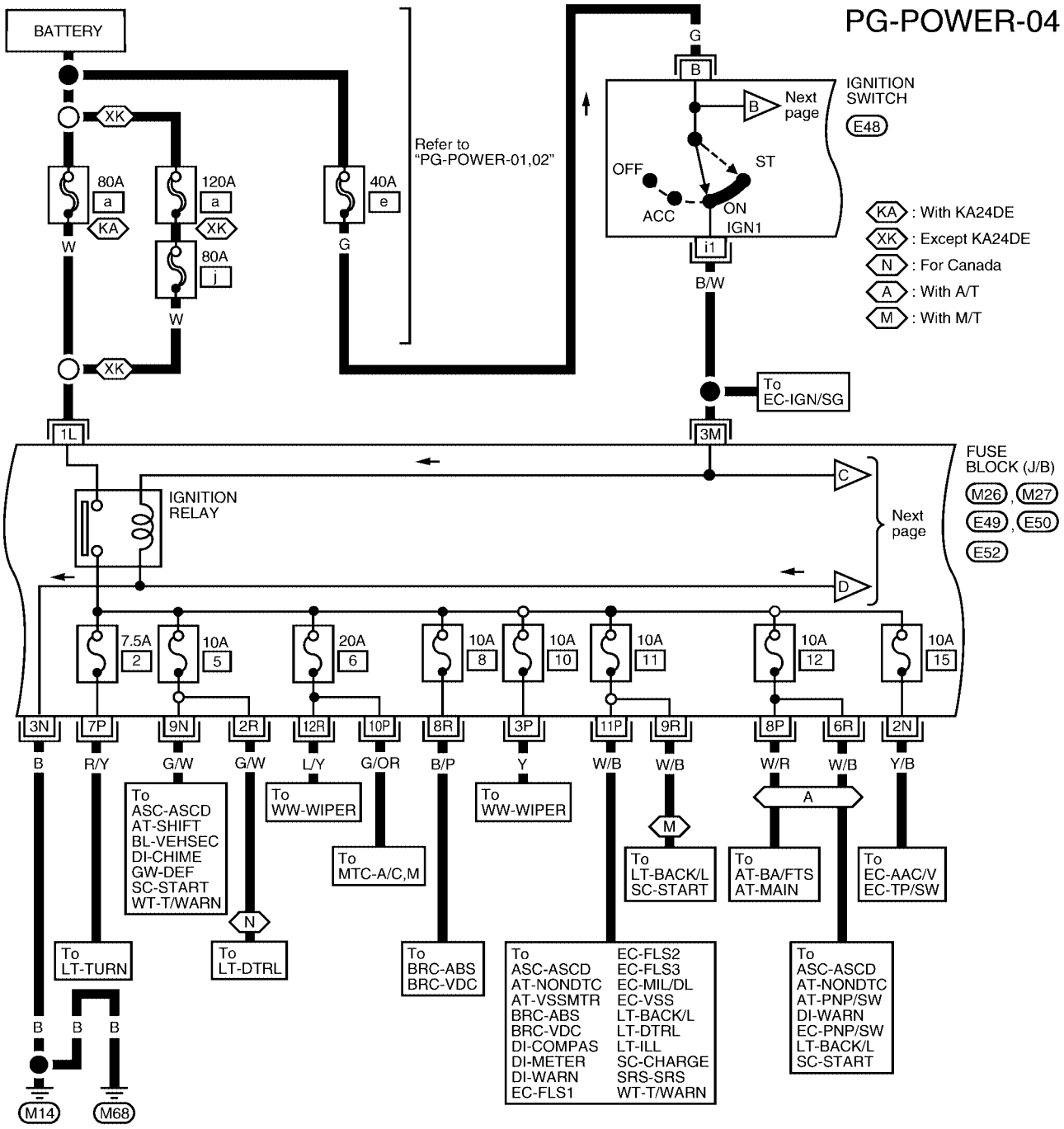
-FUSE BLOCK - JUNCTION BOX (J/B)

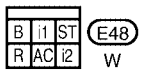
WKWA0632E

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

NOTE:

For detailed ground distribution information, refer to PG-16, "Ground Distribution" .





Refer to the following.

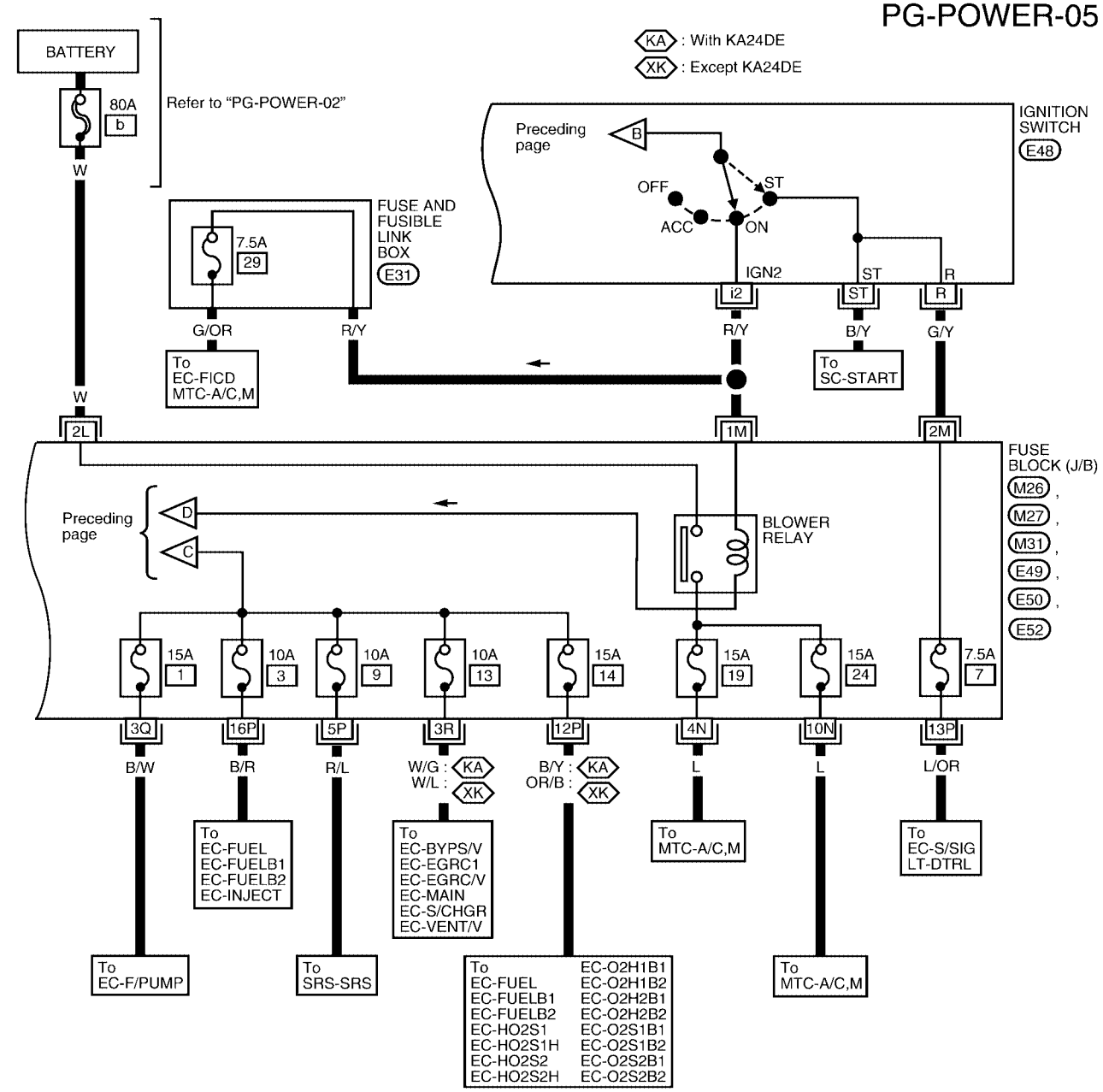
M26, M27, E49, E50, E52

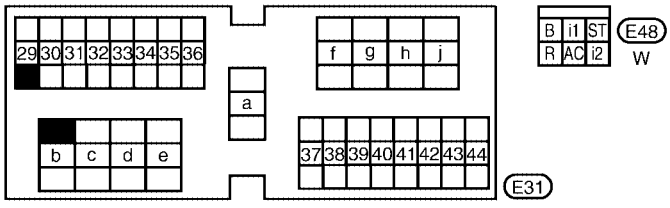
1	6	11	16	21	25
2	7	12	17	22	26
3	8	13	18	23	27
4	9	14	19	24	
5	10	15	20		28

-FUSE BLOCK - JUNCTION BOX (J/B)

WKWA0819E

PG-POWER-05





Refer to the following.

M26 , M27 , M31 , E49 , 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)

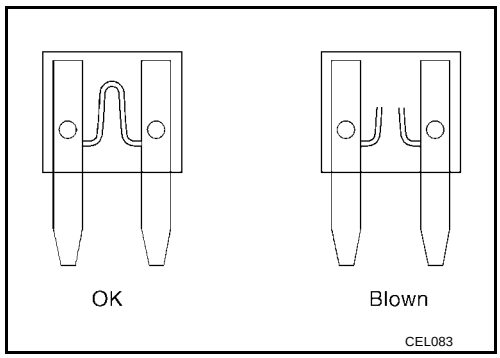
WKWA0327E

Inspection

EKS0036S

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.**

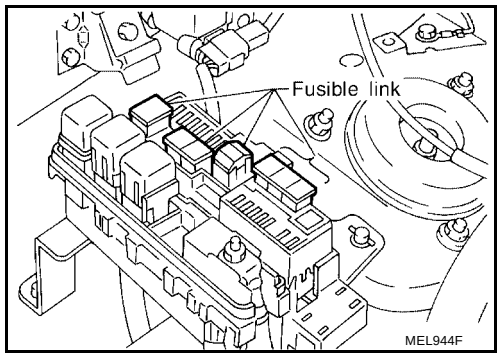


FUSIBLE LINK

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:

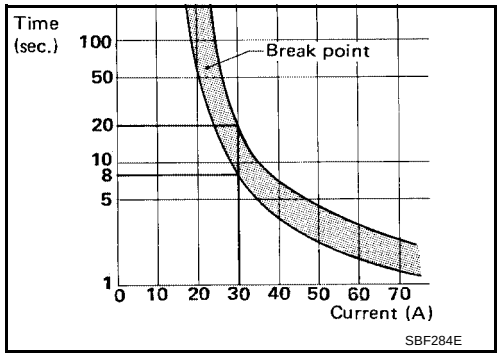
- **If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of problem.**
- **Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other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



GROUND

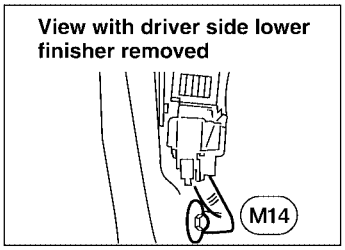
PFP:24080

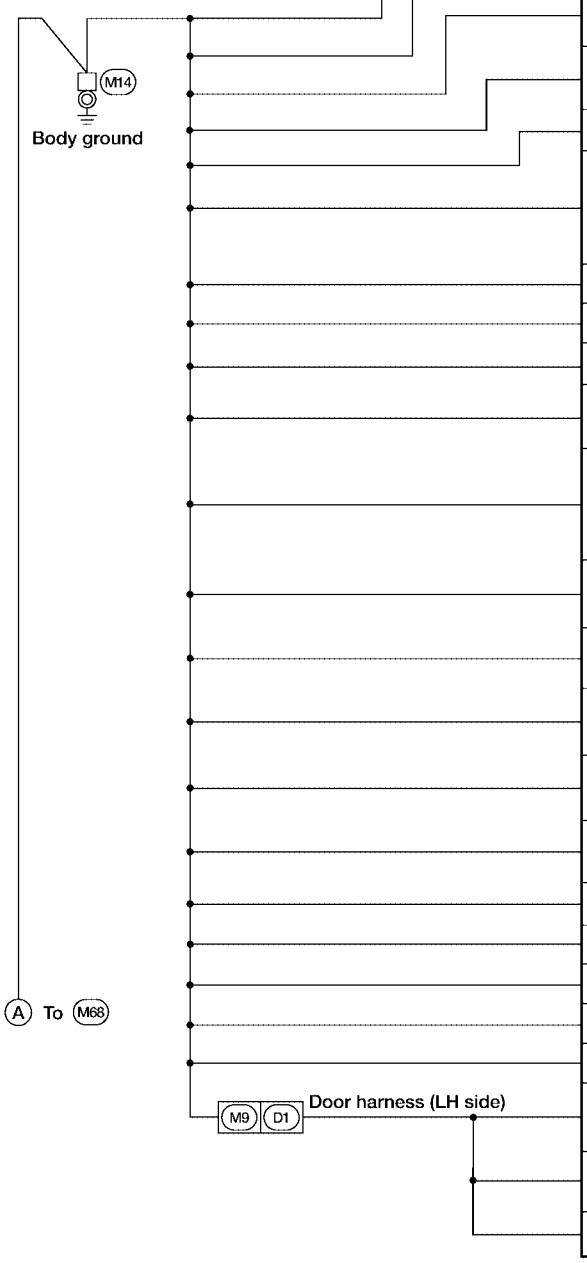
Ground Distribution

EKS0036T

MAIN HARNESS

Body ground

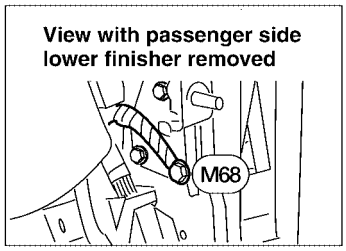


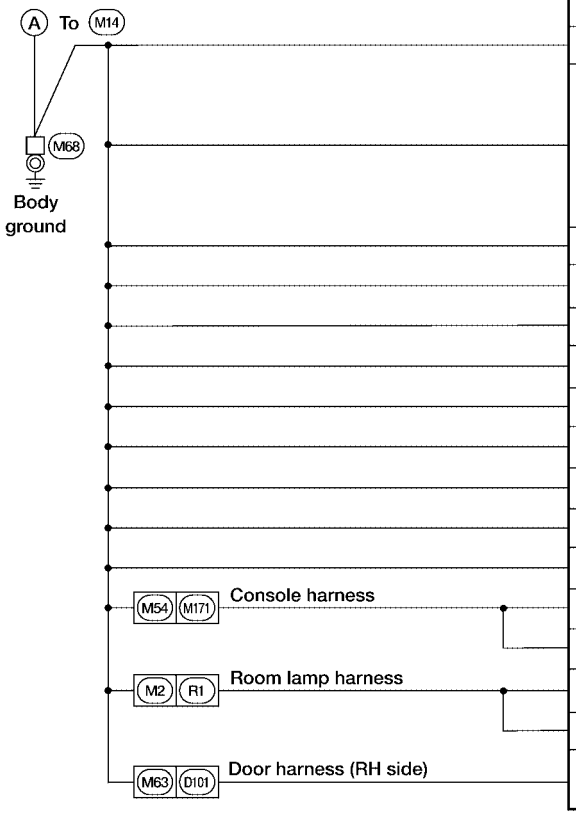


CONNECTOR NUMBER	CONNECT TO
M5	Clutch interlock switch (Terminal No. 2) (with M/T)
M6	Vehicle security relay (Terminal No. 3) (with power door locks) (with A/T, except KA24DE)
M11	Warning chime unit (Terminal No. 8) (without power door locks)
M13	Power window relay (Terminal No. 1) (with power windows)
M19	Seat belt buckle switch LH (Terminal No. 2)
M27	Fuse block (J/B) (Terminal No. 3N) • 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) • 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)
M111	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)

WKWA0328E

Body ground



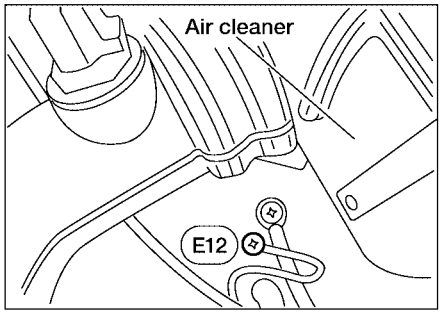


CONNECTOR NUMBER	CONNECT TO
M38	Combination meter (high beam indicator) (Terminal No. 10)
M39	Combination meter (Terminal No. 33) • Air bag warning lamp • Fuel gauge • Speedometer • Tachometer • Water temperature gauge
M45	Combination flasher unit
M52	Cigarette lighter socket
M57	Fan switch (Terminal 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)

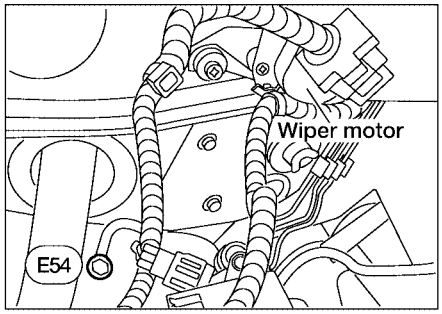
WKWA0329E

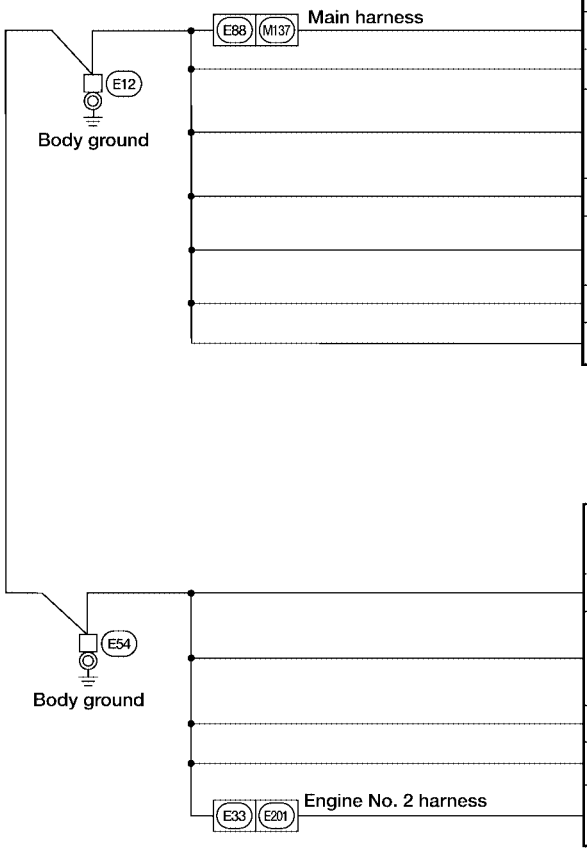
ENGINE ROOM HARNESS
KA24DE

Body ground



Body ground



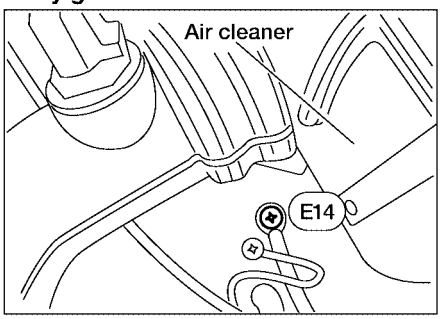


CONNECTOR NUMBER	CONNECT TO
M114	Air bag diagnosis sensor unit (shield wire)
E7	Headlamp LH
E13	Front combination lamp LH (Terminal No. 2) • Parking lamp • Turn signal lamp
E37	Brake fluid level switch (Terminal No. 2)
E39	ABS actuator and electric unit (control unit) (Terminal No. 16)
E46	Front wiper switch (Terminal No. 17)
E87	Side marker lamp LH (Terminal No. 2)

CONNECTOR NUMBER	CONNECT TO
E1	Headlamp RH
E19	Front combination lamp RH (Terminal No. 2) • Parking lamp • Turn signal lamp
E42	Front wiper motor (Terminal No. E)
E86	Side marker lamp RH (Terminal No. 2)
E218	Park neutral position (PNP) switch (Terminal No. 2)

WKWA0330E

Body ground



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

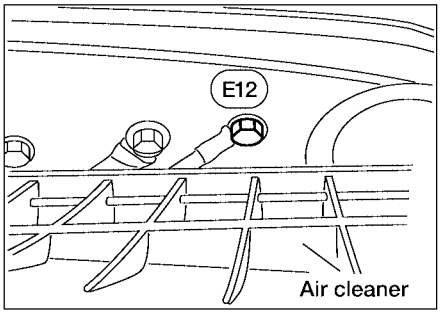
E14

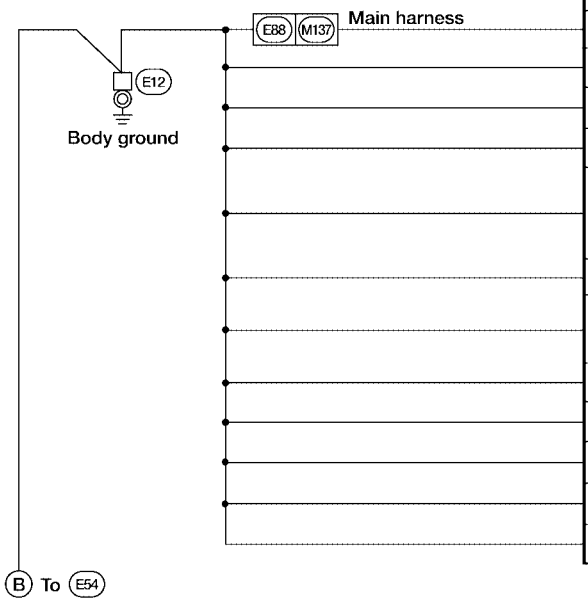
Body ground

WKWA0331E

VG33E and VG33ER

Body ground

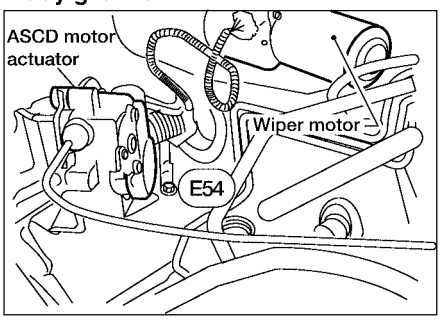




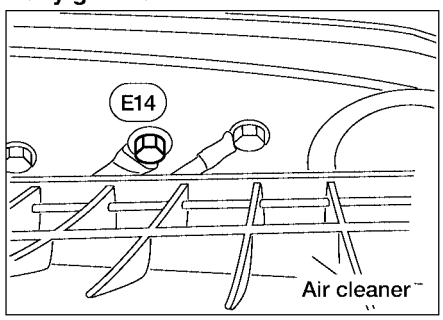
CONNECTOR NUMBER	CONNECT TO
M114	Air bag diagnosis sensor unit (shield wire)
E5	Washer fluid level switch (VG33E and VG33ER)
E7	Headlamp LH
E9	Hood switch (with power door locks)
E13	Front combination lamp LH (Terminal No. 2) • Parking lamp • Turn signal lamp
E37	Brake fluid level switch (Terminal No. 2)
E39	ABS actuator and electric unit (control unit) (Terminal No. 16)
E46	Front wiper switch (Terminal No. 17)
E56	Front fog lamp relay (Terminal No. 1)
E58	Front fog lamp LH (Terminal No. 2) (with fog lamps)
E68	Ambient air temperature switch
E87	Side marker lamp LH (Terminal No. 2)

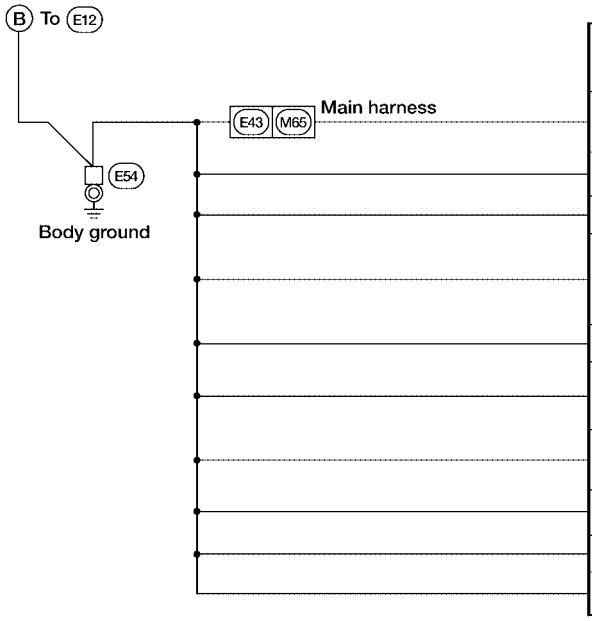
WKWA0332E

Body ground

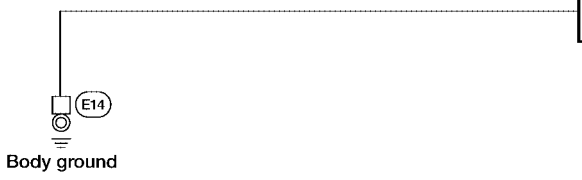


Body ground





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)

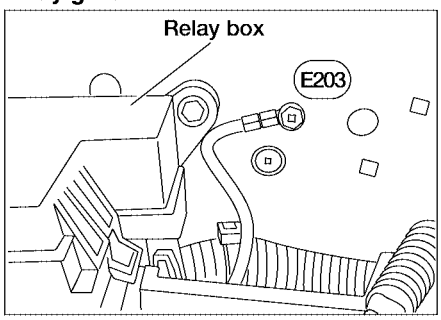


CONNECTOR NUMBER	CONNECT TO
E39	ABS actuator and electric unit (control unit) (Terminal No. 47)

WKWA0333E

ENGINE NO. 2 HARNESS
KA24DE

Body ground

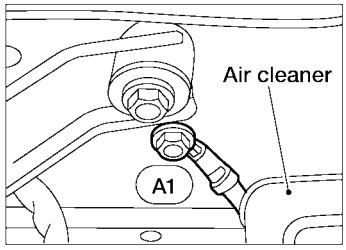


CONNECTOR NUMBER	CONNECT TO
E206	Generator

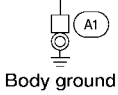
AEL710C

GENERATOR HARNESS
VG33E and VG33ER

Body ground



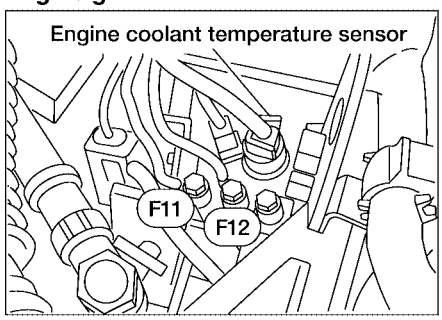
CONNECTOR NUMBER	CONNECT TO
A7	Generator

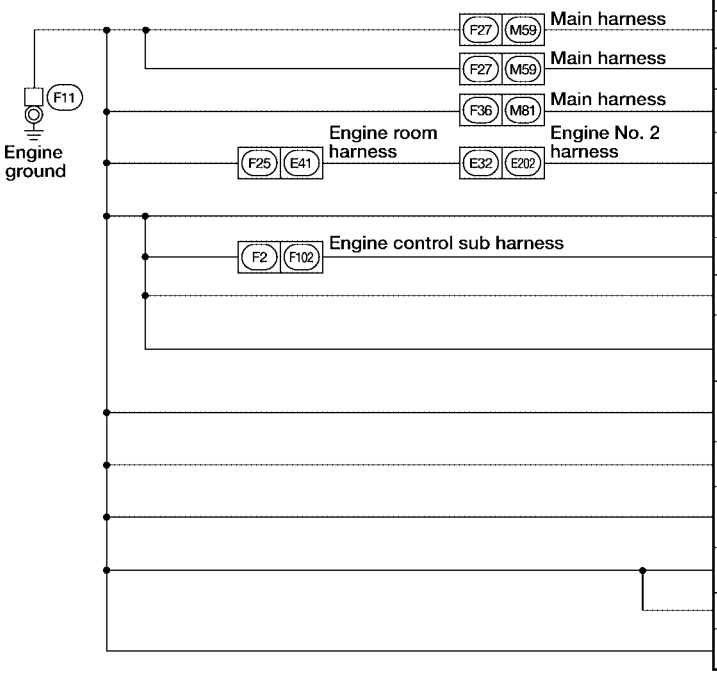


AEL697C

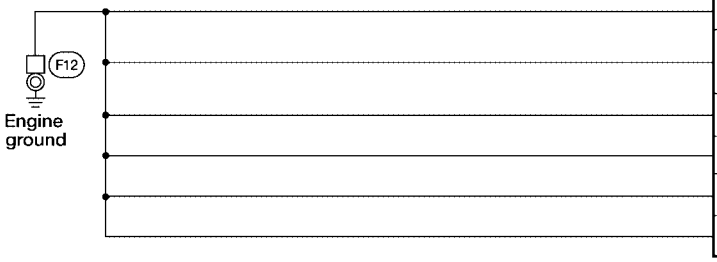
ENGINE CONTROL HARNESS
KA24DE

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 (OBD) (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)

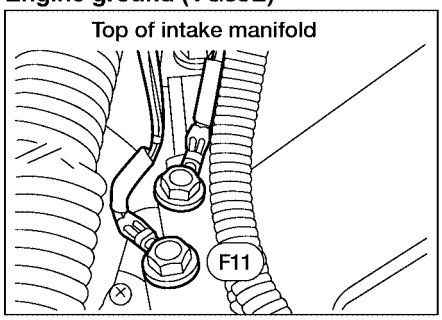


CONNECTOR NUMBER	CONNECT TO
F7	IACV-FICD solenoid valve
F13	Distributor (power transistor) (Terminal No. 2)
F29	ECM (Terminal No. 10)
F29	ECM (Terminal No. 19)
F29	ECM (Terminal No. 116)
F29	ECM (Terminal No. 124)

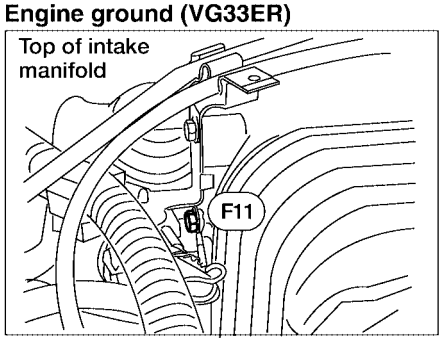
WKWA0334E

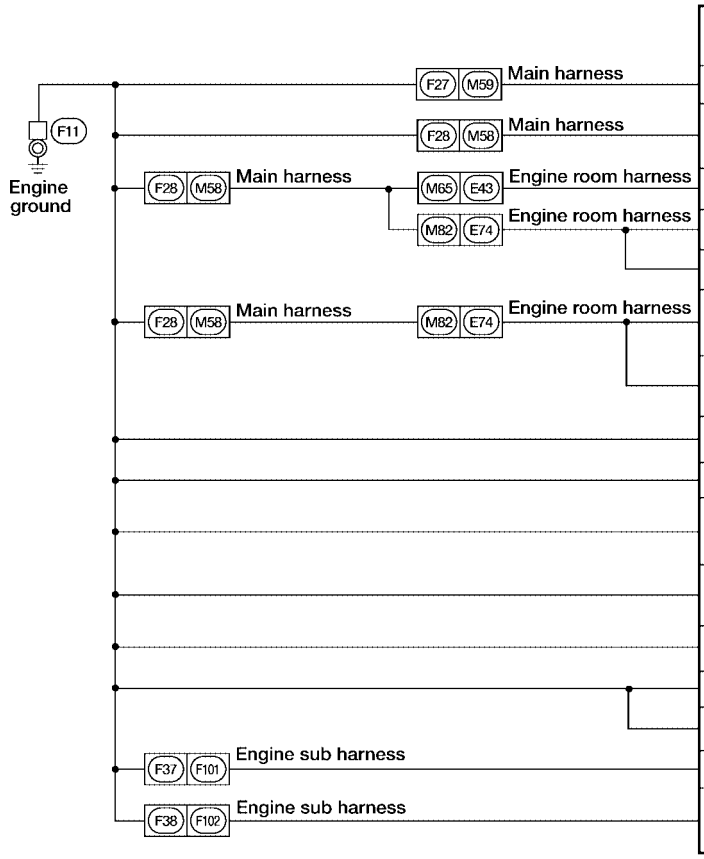
VG33E and VG33ER

Engine ground (VG33E)



Engine ground (VG33ER)

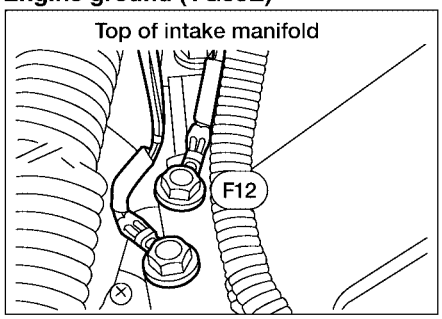




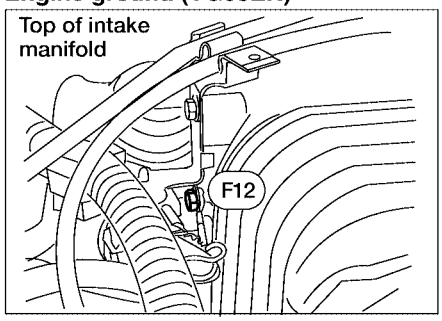
CONNECTOR NUMBER	CONNECT TO
M32	Data link connector (Terminal No. 5)
M78	TCM (transmission control module) (Terminal Nos. 25, 42 and 48) (with A/T)
E72	A/T fluid temperature sensor (with A/T)
E73	Revolution sensor (with A/T)
E73	Revolution sensor (shield wire) (with A/T)
E83	Turbine revolution sensor (VG33ER with A/T)
E83	Turbine revolution sensor (shield wire) (VG33ER with A/T)
F1	Mass air flow sensor (shield wire)
F3	Throttle position sensor (shield wire)
F13	Distributor (camshaft position sensor) (Terminal No. 6)
F13	Distributor (camshaft position sensor) (shield wire)
F14	Resistor (ignition coil) (shield wire)
F29	ECM (Terminal No. 25)
F29	ECM (Terminal No. 32)
F109	Knock sensor (shield wire)
F110	Crankshaft position sensor (OBD) (shield wire)

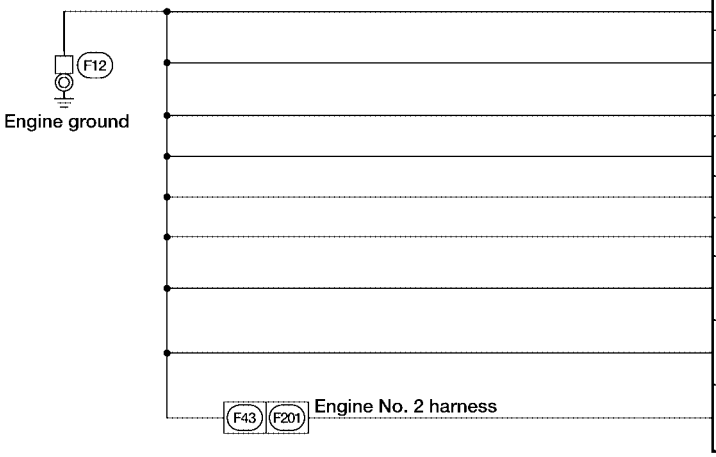
WKWA0335E

Engine ground (VG33E)



Engine ground (VG33ER)



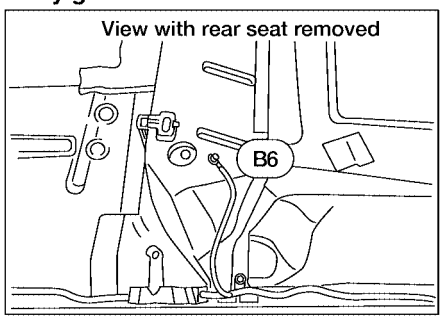


CONNECTOR NUMBER	CONNECT TO
F8	Power steering oil pressure switch
F13	Distributor (power transistor) (Terminal No. 2)
F29	ECM (Terminal No. 10)
F29	ECM (Terminal No. 19)
F29	ECM (Terminal No. 116)
F29	ECM (Terminal No. 124)
F39	Heated oxygen sensor 2 (bank 2) (Terminal No.4)
F42	Heated oxygen sensor 2 (bank 1) (Terminal No.4)
F218	Park/neutral position (PNP) switch (with M/T)

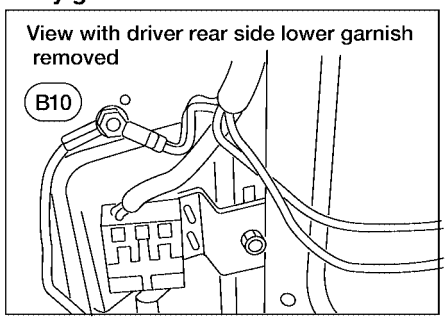
WKWA0336E

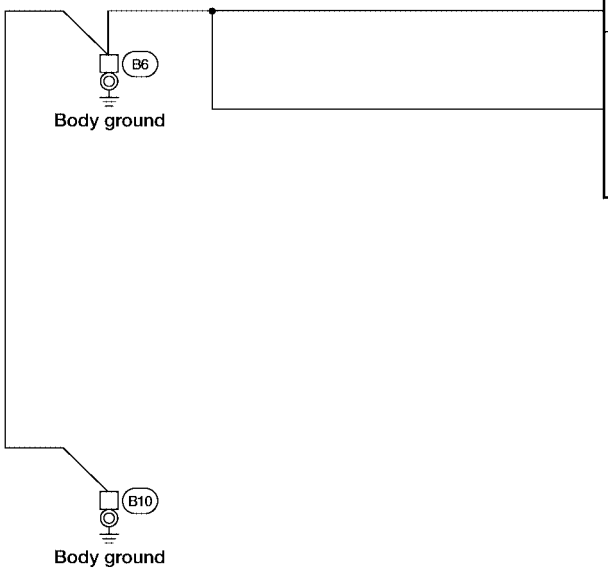
BODY HARNESS

Body ground



Body ground



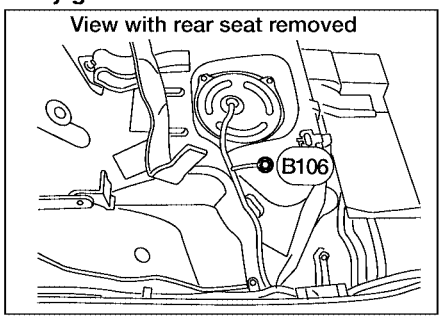


CONNECTOR NUMBER	CONNECT TO
B4	Front door switch LH (Terminal No. 3)
B9	Rear combination lamp LH (Terminal No. 2) • Backup lamp • Stop lamp • Tail lamp • Turn signal lamp

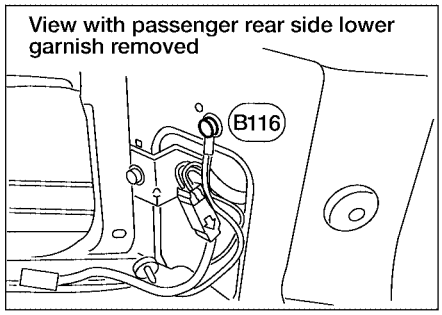
LEL734

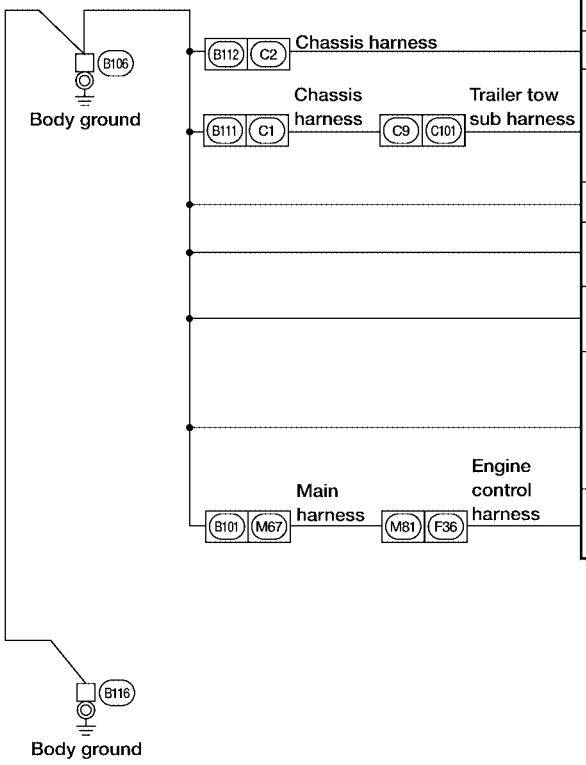
BODY NO. 2 HARNESS

Body ground



Body ground





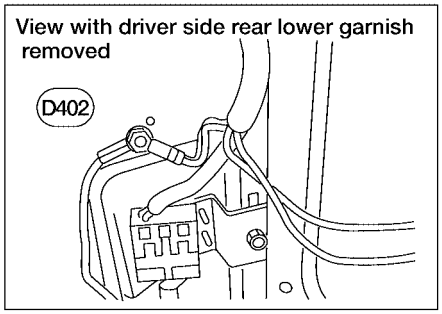
CONNECTOR NUMBER	CONNECT TO
C8	License plate lamp
C102	Trailer (Terminal No. 1) (with trailer tow) • Stop/turn LH lamp • Stop/turn RH lamp • Tail lamp
B107	Fuel pump
B108	Fuel level sensor unit (Terminal No. 4)
B114	Trailer tow control unit (Terminal No. 7) (with trailer tow)
B115	Rear combination lamp RH (Terminal No. 2) • Back up lamp • Stop lamp • Tail lamp • Turn signal lamp
F29	ECM (Terminal No. 66)

WKWA0382E

BACK DOOR NO. 2 HARNESS

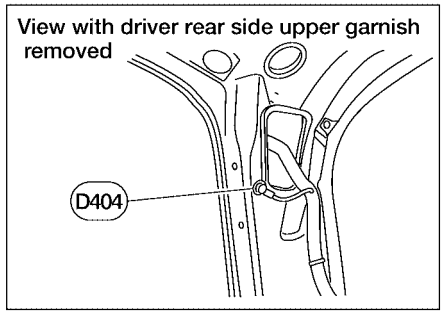
Body ground

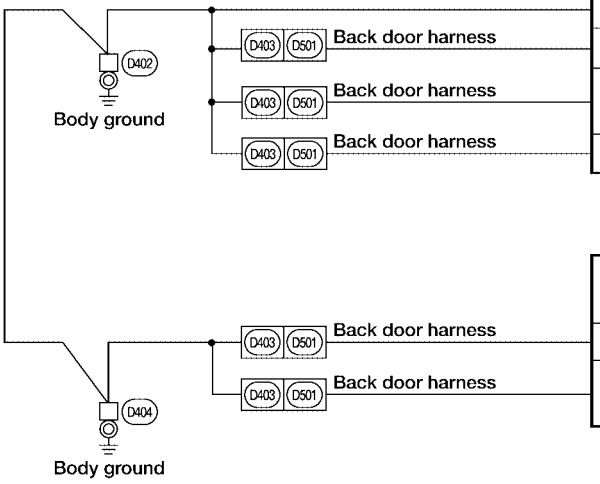
View with driver side rear lower garnish removed



Body ground

View with driver rear side upper garnish removed





CONNECTOR NUMBER	CONNECT TO
D405	Rear power socket (with power socket)
D503	High mounted stop lamp
D506	Back door key cylinder switch (Terminal No. 2) (with power door locks)
D507	Rear window defogger

CONNECTOR NUMBER	CONNECT TO
D504	Back door switch
D505	Rear wiper motor (Terminal No. E) (with rear wiper)

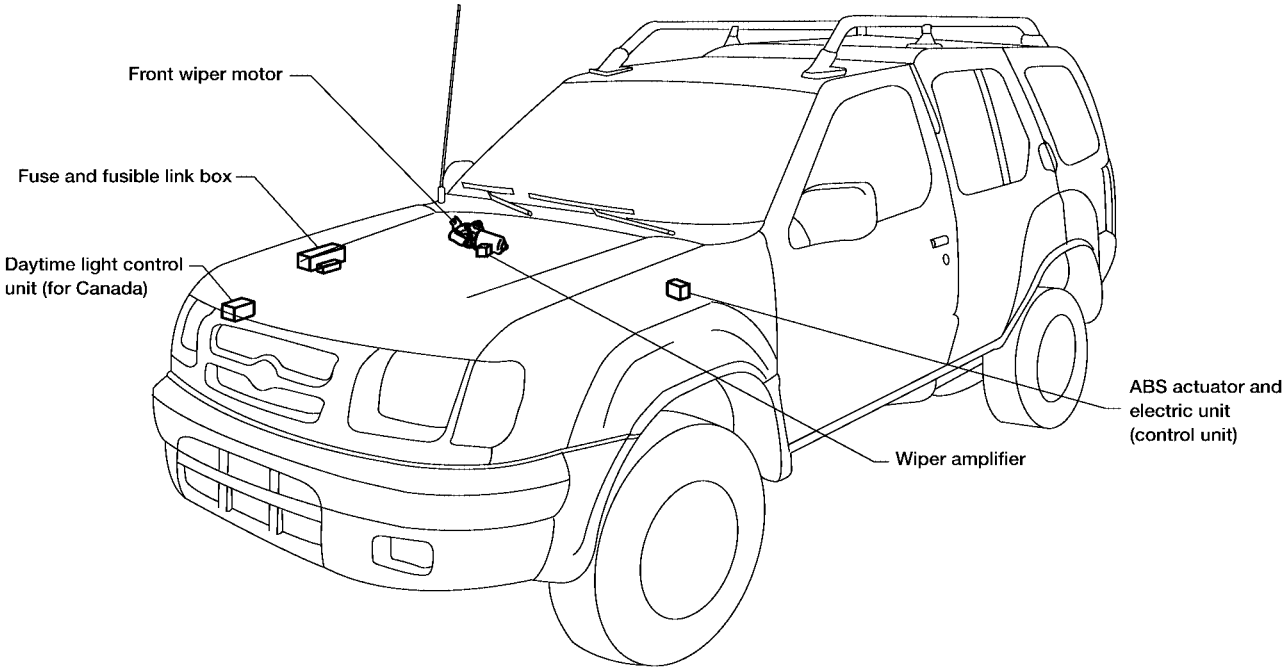
WKWA0337E

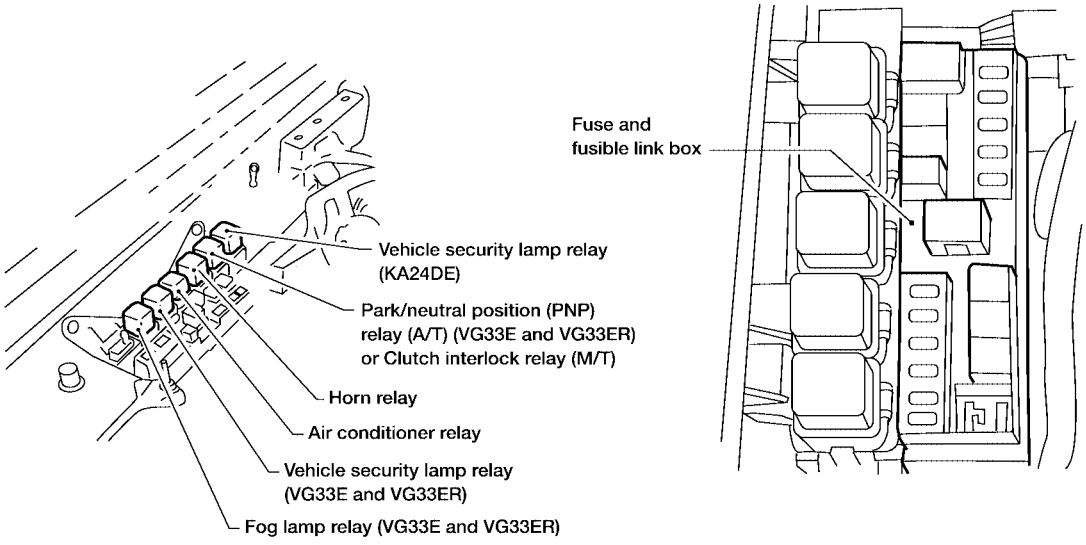
ELECTRICAL UNITS LOCATION

PFP:25230

Engine Compartment

EKS0036U

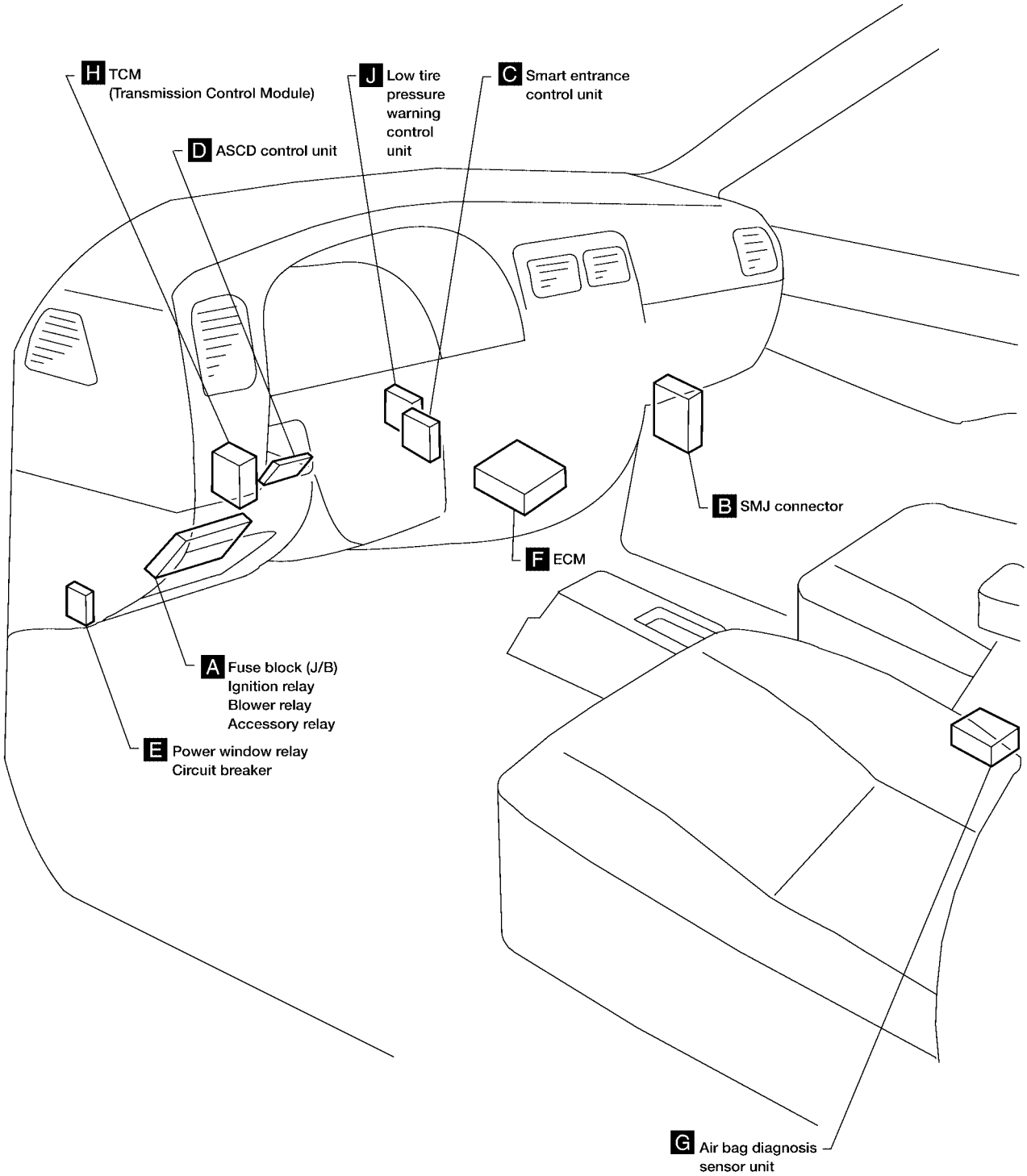




WEL919A

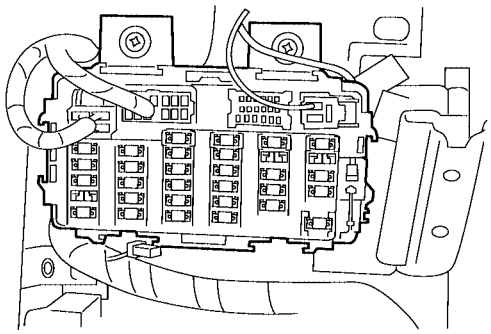
Passenger Compartment

EKS0036V

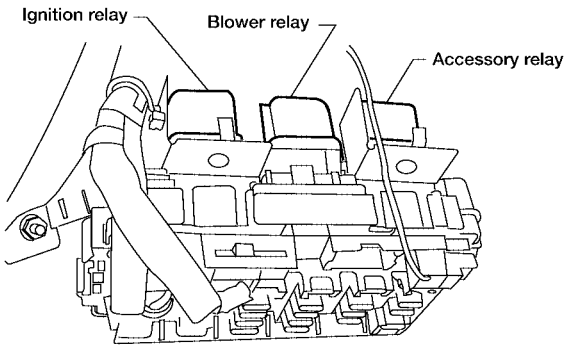


WKIA0322E

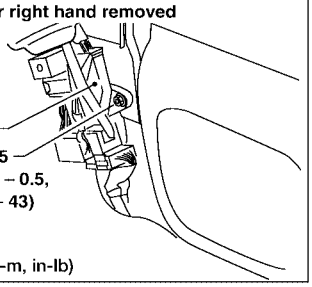
A



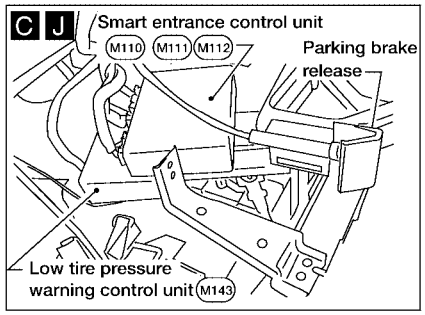
Rear view of fuse block (J/B)



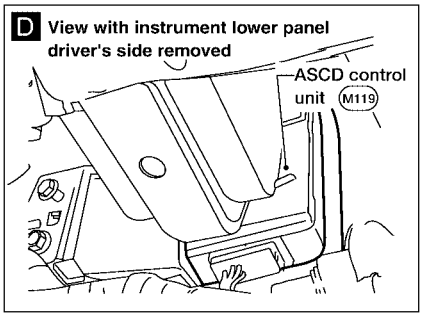
B View with dash side finisher right hand removed



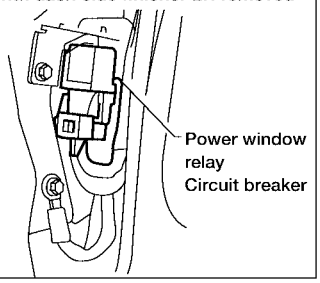
C J



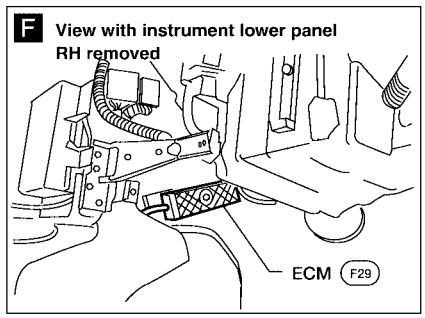
D View with instrument lower panel driver's side removed



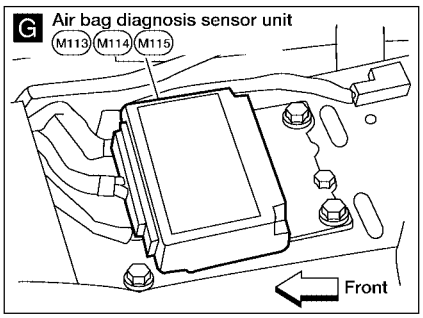
E View with dash side finisher LH removed



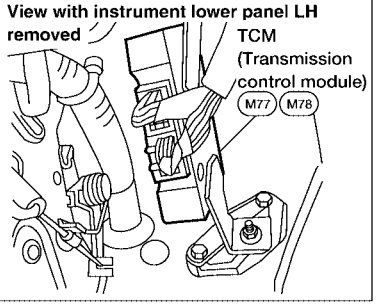
F View with instrument lower panel RH removed



G



H View with instrument lower panel LH removed



WKIA0323E

HARNESS LAYOUT

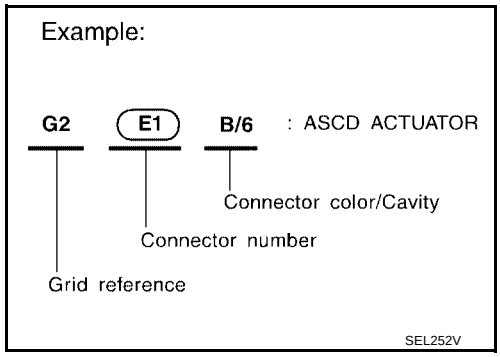
PFP:24010

How to Read Harness Layout

EKS0036W

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.

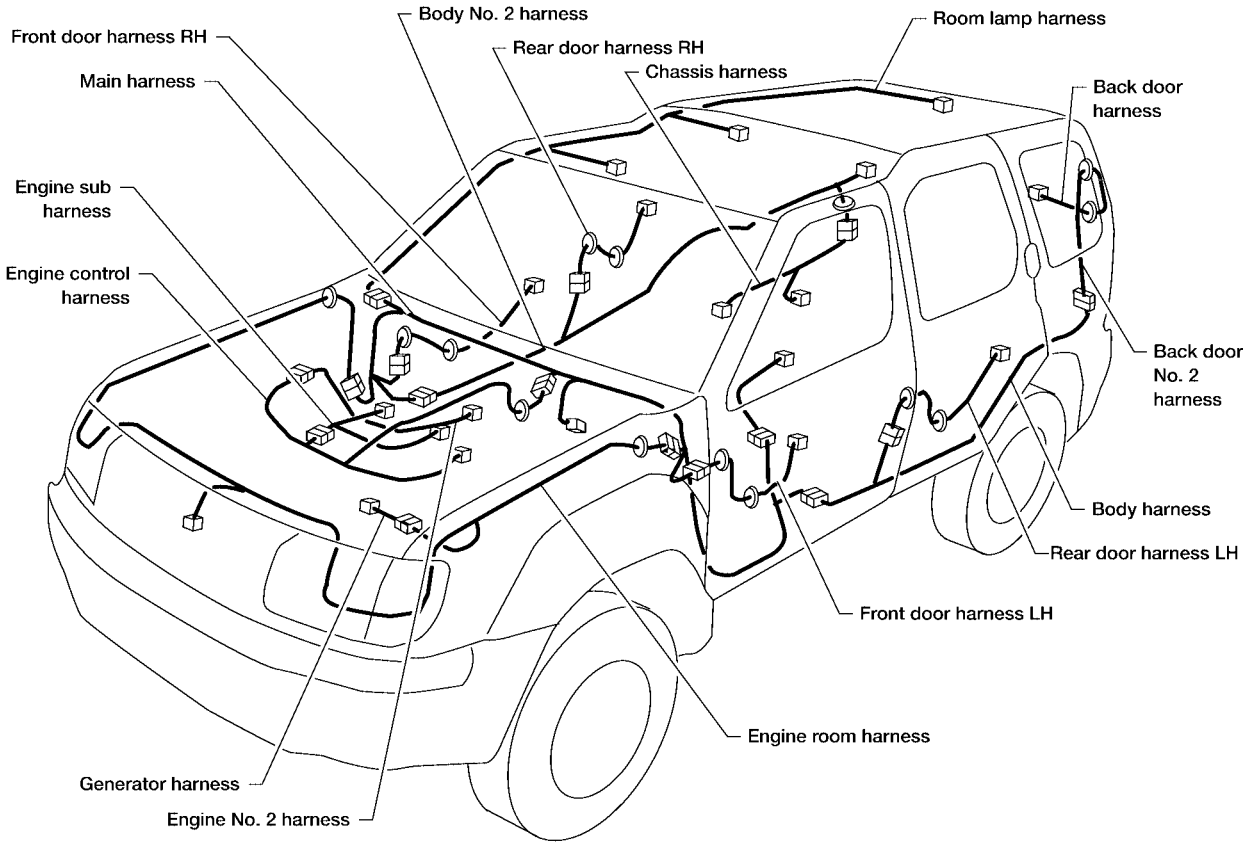
CONNECTOR SYMBOL

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

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

Outline

EKS0036X

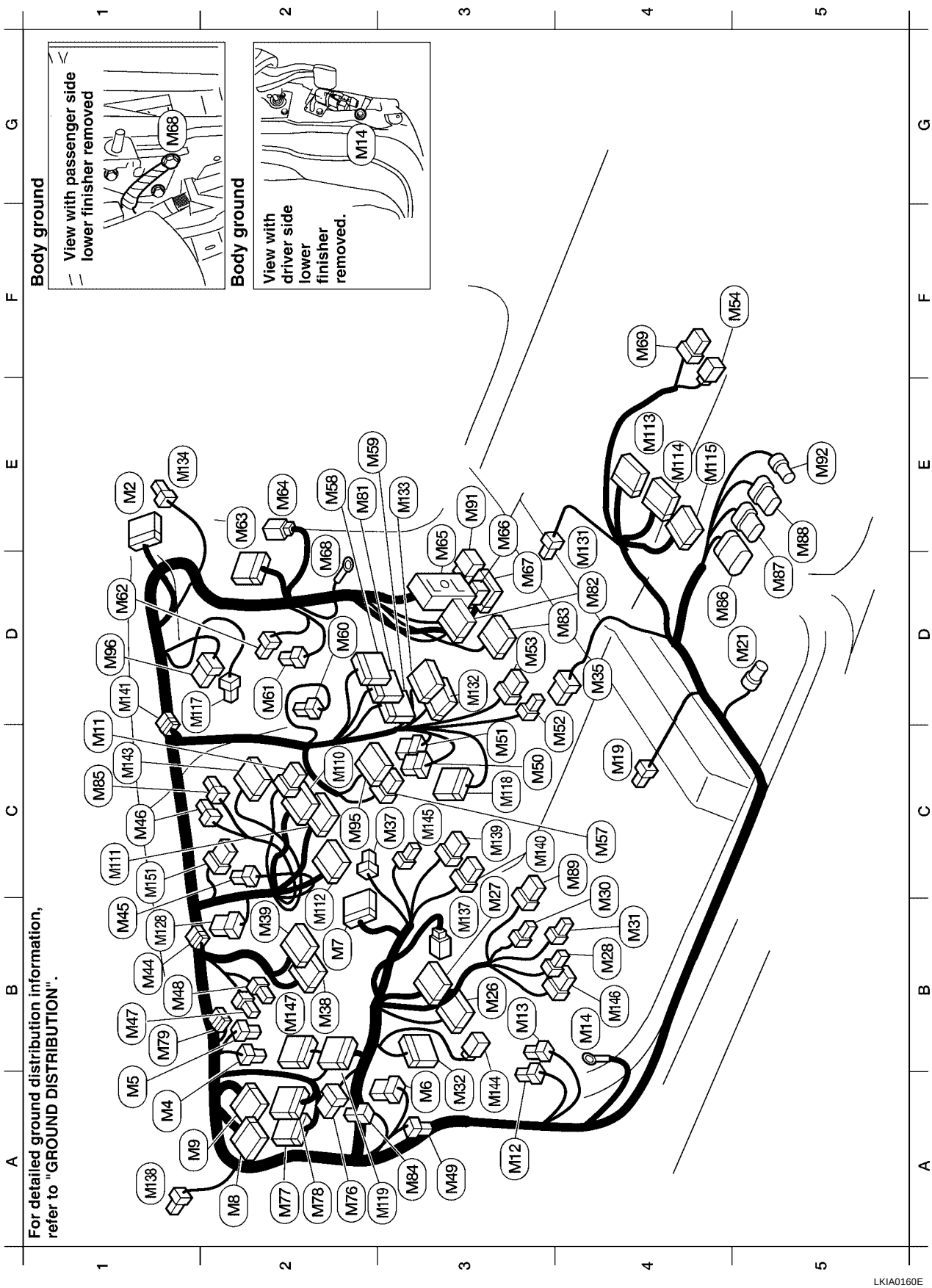


LEL161A

NOTE:
For detailed ground distribution information, refer to PG-16, "Ground Distribution" .

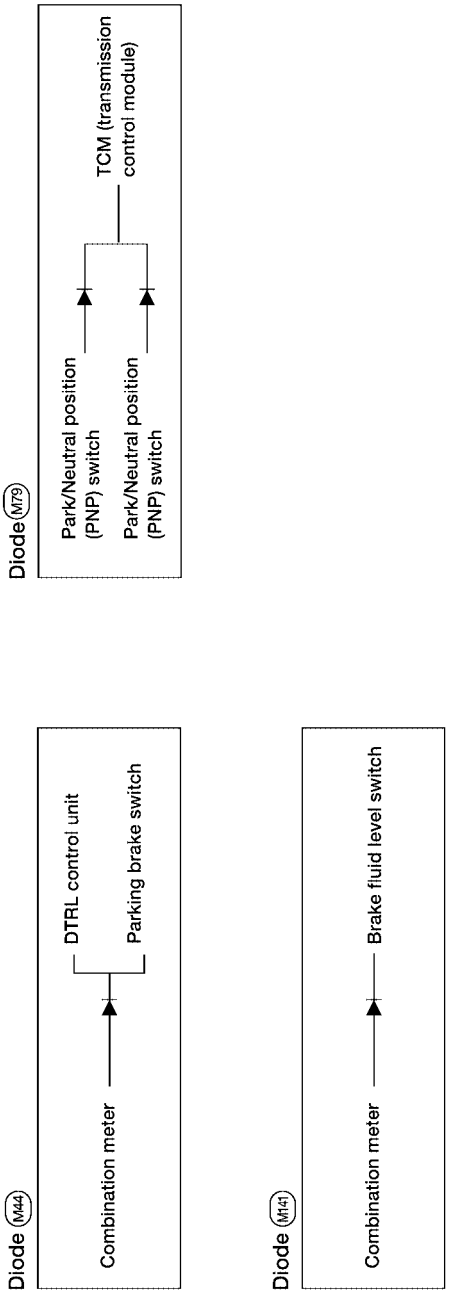
Main Harness

EKS0036Y



LKIA0160E

E1	M2	W/12	: To R1
A1	M4	L/2	: ASCD clutch switch (with M/T)
A1	M5	L/2	: Clutch interlock switch (with M/T)
A3	M6	B/5	: Vehicle security relay (with vehicle security system)
B2	M7	BR/12	: To E53
A2	M8	W/12	: To D2
A2	M9	W/12	: To D1
C1	M11	W/8	: Warning chime unit (without power door locks)
A3	M12	W/2	: Circuit breaker (with power door locks)
B3	M13	L/4	: Power window relay (with power windows)
B4	M14	-	: Body ground
C4	* M19	W/3	: Seat belt buckle switch LH
D5	M21	GY/4	: Heated oxygen sensor 2 (with KA24DE engine)
B3	M26	W/16	: Fuse block (J/B)
B3	* M27	W/10	: Fuse block (J/B)
B4	* M28	W/3	: Illumination control switch
C4	M30	W/4	: Security indicator lamp (with vehicle security system)
B4	M31	W/3	: Fuse block (J/B)
A3	M32	W/16	: Data link connector
D4	M35	W/6	: A/T device (with A/T)
C3	M37	W/2	: Key switch
B2	M38	W/24	: Combination meter
B2	M39	BR/24	: Combination meter
B1	M44	GY/2	: Diode-1
B1	M45	B/3	: Combination flasher unit
C1	M46	L/4	: Fuel pump relay
B1	M47	B/2	: Stop lamp switch
B1	M48	L/2	: ASCD brake switch (A/T shift lock brake switch)
A3	M49	B/1	: Parking brake switch
C3	M50	W/6	: Audio unit
D1	M51	W/10	: Audio unit
D3	M52	W/3	: Cigarette lighter socket
D3	M53	W/8	: Hazard switch
F5	M54	W/2	: To M171
C4	M57	W/6	: Fan switch
E2	* M58	W/16	: To F28 (except with KA24DE engine)
E2	* M59	W/16	: To F27
D2	M60	W/2	: Intake sensor
D2	M61	BR/4	: Fan resistor
D1	M62	W/2	: Blower motor
E2	M63	W/12	: To D101
E2	* M64	W/2	: To D102
E3	M65	SMJ	: To E43
E3	* M66	W/4	: To E44
E3	* M67	W/16	: To B101
E2	M68	-	: Body ground
F4	M69	B/6	: Yaw rate/side G-sensor
A2	* M76	B/5	: ATP relay (with A/T)
A2	* M77	W/24	: TCM (with A/T)
A2	* M78	GY/24	: TCM (with A/T)
B1	* M79	GY/3	: Diode-2 (with A/T)
E2	* M81	W/20	: To F36 (with KA24DE engine)
E2	* M81	W/24	: To F36 (with VG33E and VG33ER engine)
D4	* M82	W/24	: To E74 (with VG33E and VG33ER engine)
D4	M83	W/12	: To B102
A3	M84	L/4	: Rear window defogger relay
C1	M85	W/4	: Rear window defogger timer
D5	M86	GY/10	: To B1
D5	M87	B/8	: To B2
E5	M88	SB/8	: To B3
C4	M89	W/6	: Rear wiper switch
E3	M91	W/8	: To B103
E5	M92	GY/2	: To B12
C2	M95	B/12	: Air control
D1	M96	B/6	: Intake door motor
C2	M110	W/24	: Smart entrance control unit
C1	M111	GY/24	: Smart entrance control unit
B2	M112	GY/16	: Smart entrance control unit
E4	M113	Y/12	: Air bag diagnosis sensor unit
E4	M114	Y/28	: Air bag diagnosis sensor unit
E4	M115	Y/12	: Air bag diagnosis sensor unit
D2	M117	Y/4	: Passenger air bag module
C3	M118	W/16	: Audio unit
A3	M119	BR/24	: ASCD control unit
B1	M128	B/5	: ASCD relay
E4	M131	W/3	: Seat belt buckle switch RH
D3	M132	W/12	: Audio amplifier
E3	M133	W/12	: Audio amplifier
E1	M134	BR/2	: Pillar tweeter RH
B3	M137	Y/4	: To E88
A1	M138	BR/2	: Pillar tweeter LH
C3	M139	Y/6	: Spiral cable
C3	M140	GY/8	: Spiral cable
D1	M141	B/2	: Diode-3
C1	M143	W/16	: Low tire pressure warning control unit
A3	M144	W/2	: Low tire pressure warning check connector
C3	M145	B/7	: Steering angle sensor
B4	M146	GY/6	: VDC off switch (with VDC)
B2	M147	W/16	: CAN-LAN converter
C1	M151	BR/6	: Low tire pressure warning relay



★: 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.

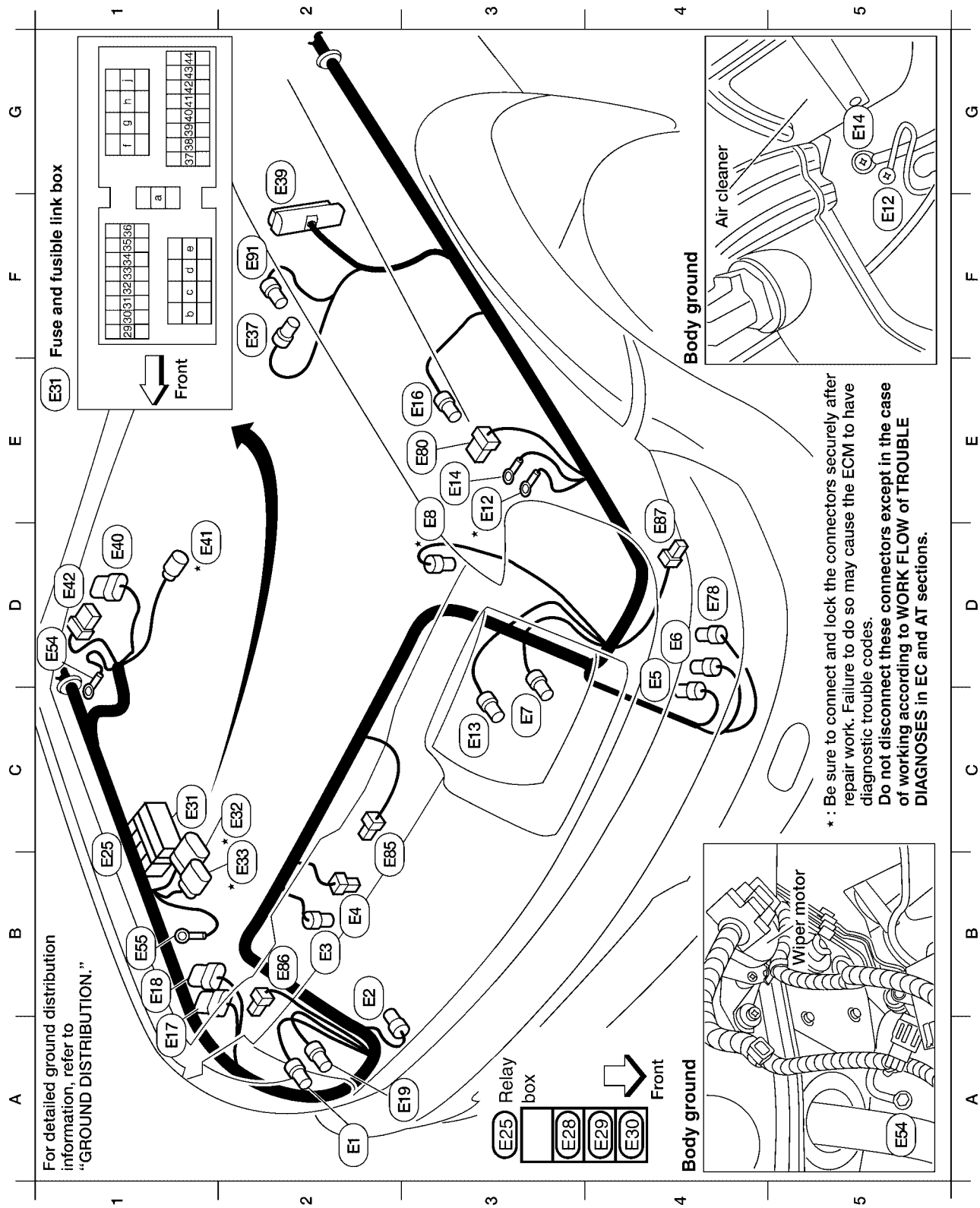
WKIA0298E

Engine Room Harness

EKS0036Z

KA24DE

Engine Compartment



WKIA0299E

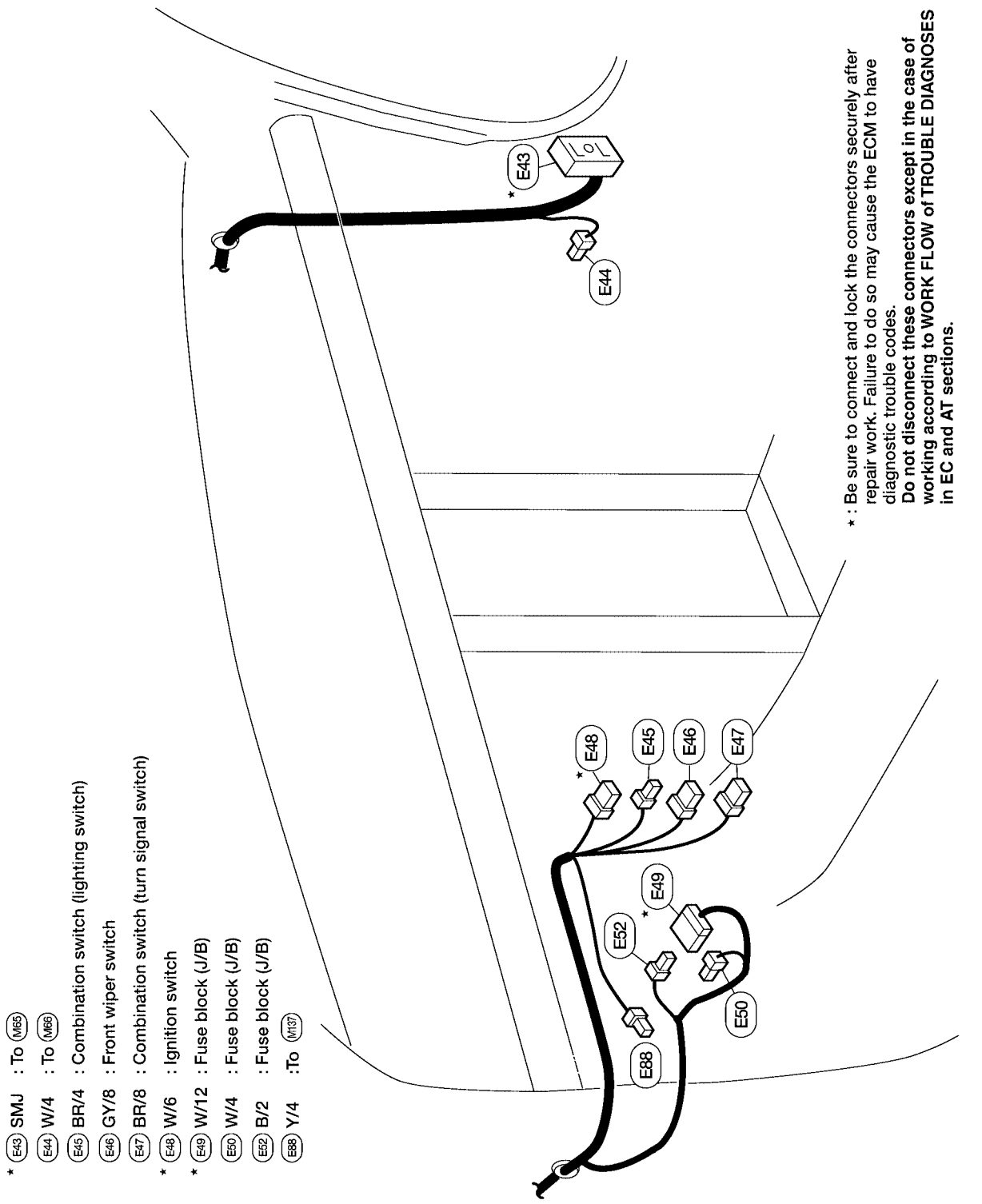
ENGINE ROOM KA24DE

A2	(E1)	B/3	: Headlamp RH
B2	(E2)	GY/2	: Front wheel sensor RH
B2	(E3)	B/2	: Refrigerant pressure sensor
B2	(E4)	B/1	: Horn
D4	(E6)	GY/2	: Front washer motor
C3	(E7)	B/3	: Headlamp LH
D3	* (E8)	B/2	: Intake air temperature sensor
D3	* (E12)	-	: Body ground
D4	(E13)	GY/3	: Front combination lamp LH
E3	(E14)	-	: Body ground
E3	(E16)	BR/2	: Front wheel sensor LH
A1	(E17)	GY/8	: Daytime light control unit (with DTRL)
B1	(E18)	GY/6	: Daytime light control unit (with DTRL)
A1	(E19)	GY/3	: Front combination lamp RH
B1	(E25)	-	: Relay box
A3	(E28)	L/4	: Clutch interlock relay
A4	(E29)	W/3	: Horn relay
A4	(E30)	L/4	: A/C relay
C1	(E31)	-	: Fuse and fusible link box
C2	* (E32)	GY/9	: To (E202)
B2	* (E33)	GY/6	: To (E201)
F2	(E37)	GY/2	: Brake fluid level switch
F2	(E39)	B/47	: ABS actuator and electric unit (control unit)
D1	* (E41)	GY/3	: To (F25)
D1	(E42)	GY/6	: Front wiper motor
C1	* (E54)	-	: Body ground
B1	(E55)	-	: Battery
D4	(E78)	BR/2	: Rear washer motor (with intermittent wipers)
	(E80)	B/6	: ASCD motor actuator
C2	(E85)	Y/2	: Crash zone sensor
B2	(E86)	BR/2	: Side marker lamp RH
D4	(E87)	BR/2	: Side marker lamp LH
	(E91)	B/2	: Pressure 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

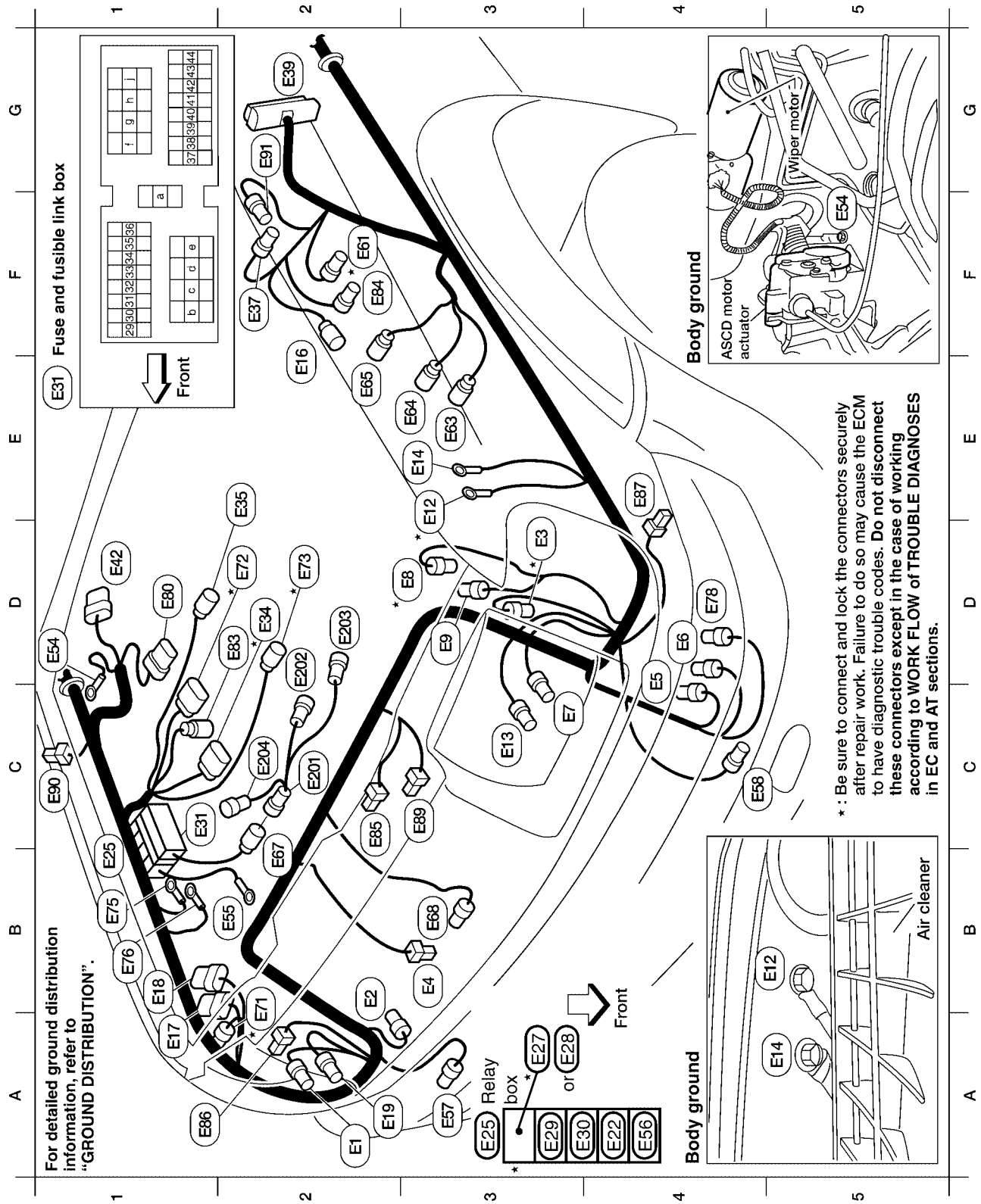
WKIA2695E

Passenger Compartment



WKIA0301E

VG33E AND VG33ER
Engine Compartment



WKIA0302E

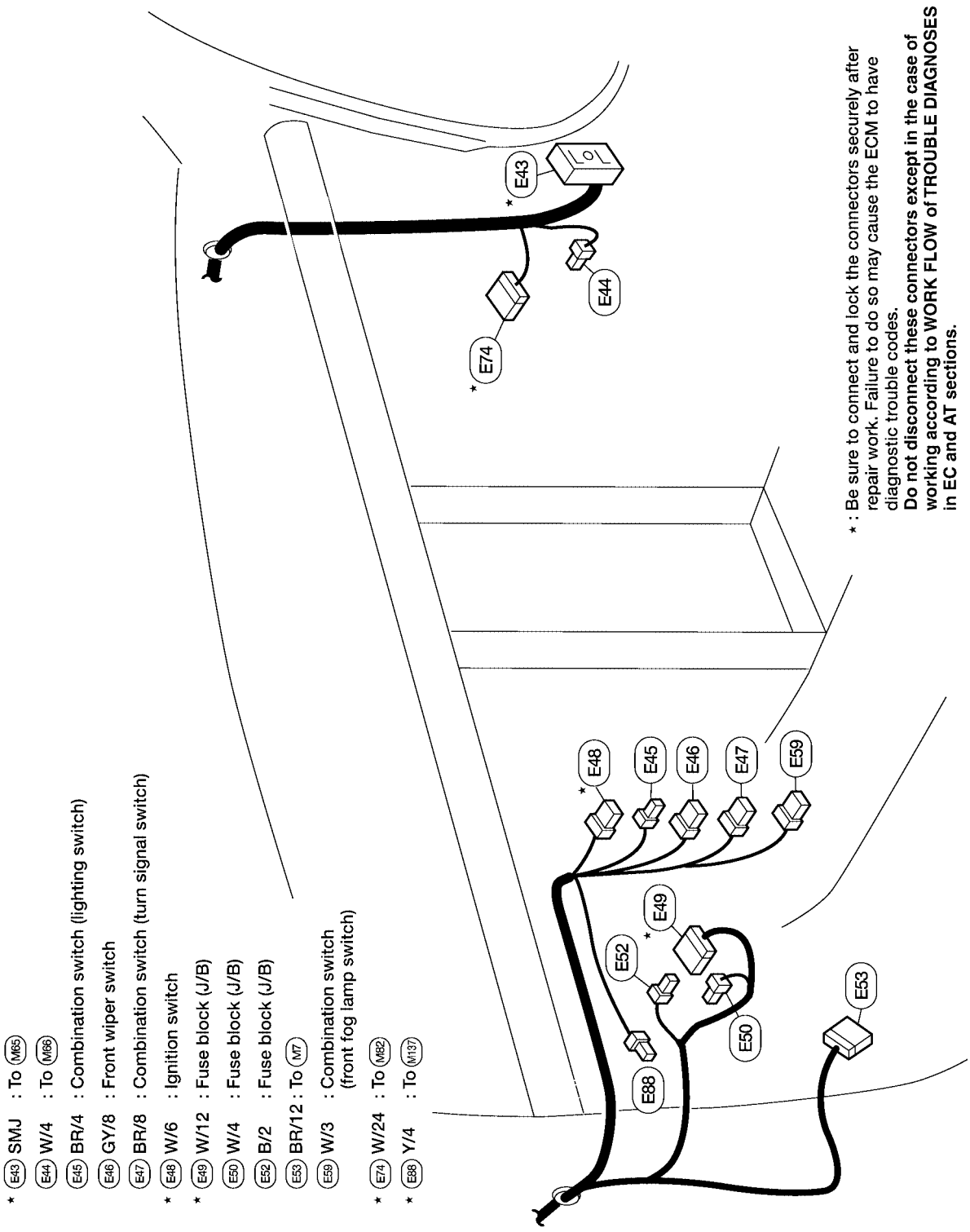
ENGINE ROOM VG33E AND VG33ER

A2	E1	B/3	: Headlamp RH
B2	E2	GY/2	: Front wheel sensor RH
B2	E3	B/2	: Refrigerant pressure sensor
B3	E4	B/1	: Horn
C4	E5	BR/2	: Washer fluid level switch
D4	E6	GY/2	: Front washer motor
C3	E7	B/3	: Headlamp LH
D3	* E8	B/2	: Intake air temperature sensor
D3	E9	W/2	: Hood switch (with vehicle security system)
D3	* E12	-	: Body ground
D4	E13	GY/3	: Front combination lamp LH
E3	E14	-	: Body ground
E2	E16	BR/2	: Front wheel sensor LH
A1	E17	GY/8	: Daytime light control unit (with DTRL)
B1	E18	GY/6	: Daytime light control unit (with DTRL)
A1	E19	GY/3	: Front combination lamp RH
B3	E22	BR/6	: Vehicle security lamp relay (with vehicle security system)
C1	E25	-	: Relay box
A3	E27	BR/6	: Park/neutral position (PNP) relay (with A/T)
A4	E28	L/4	: Clutch interlock relay (with M/T)
A4	E29	W/3	: Horn relay
A4	E30	L/4	: A/C relay
C1	E31	-	: Fuse and fusible link box
C2	E34	GY/8	: Park/neutral position (PNP) switch (with A/T)
D2	E35	W/2	: Park/neutral position (PNP) switch (with A/T)
G2	E37	GY/2	: Brake fluid level switch
G2	* E39	B/47	: ABS actuator and electric unit (control unit)
D1	E42	SB/6	: Front wiper motor
D1	* E54	-	: Body ground
B2	E55	-	: Battery
B4	* E56	L/4	: Front fog lamp relay
A3	E57	GY/2	: Front fog lamp RH
C4	E58	GY/2	: Front fog lamp LH
E2	* E61	L/2	: EVAP canister purge volume control solenoid valve
E3	E63	GY/1	: To A3
E3	E64	GY/1	: To A4
E2	E65	GY/3	: To A5
C2	E67	GY/1	: To E201
B3	E68	GY/2	: Ambient air temperature switch
B2	E71	GY/2	: Dropping resistor
C1	* E72	BR/8	: Terminal cord assembly
C2	* E73	GY/3	: Revolution sensor
B1	E75	-	: To E31
B1	* E76	-	: To E31
D4	* E78	BR/2	: Rear washer motor
D1	E80	GY/6	: ASCD motor actuator
C1	E83	BR/4	: Turbine revolution sensor
F2	* E84	B/2	: Supercharger bypass valve control solenoid valve
C2	E85	Y/2	: Crash zone sensor
B2	E86	BR/2	: Side marker lamp RH
D4	E87	BR/2	: Side marker lamp LH
B3	E89	B/2	: Ambient air temperature sensor
C1	E90	W/2	: Auxiliary power supply
G2	E91	B/2	: Pressure switch
C2	E201	GY/1	: To E67
D2	E202	GY/1	: Starter motor
D2	E203	-	: Starter motor
C2	E204	-	: Battery

* : 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

WKIA2696E

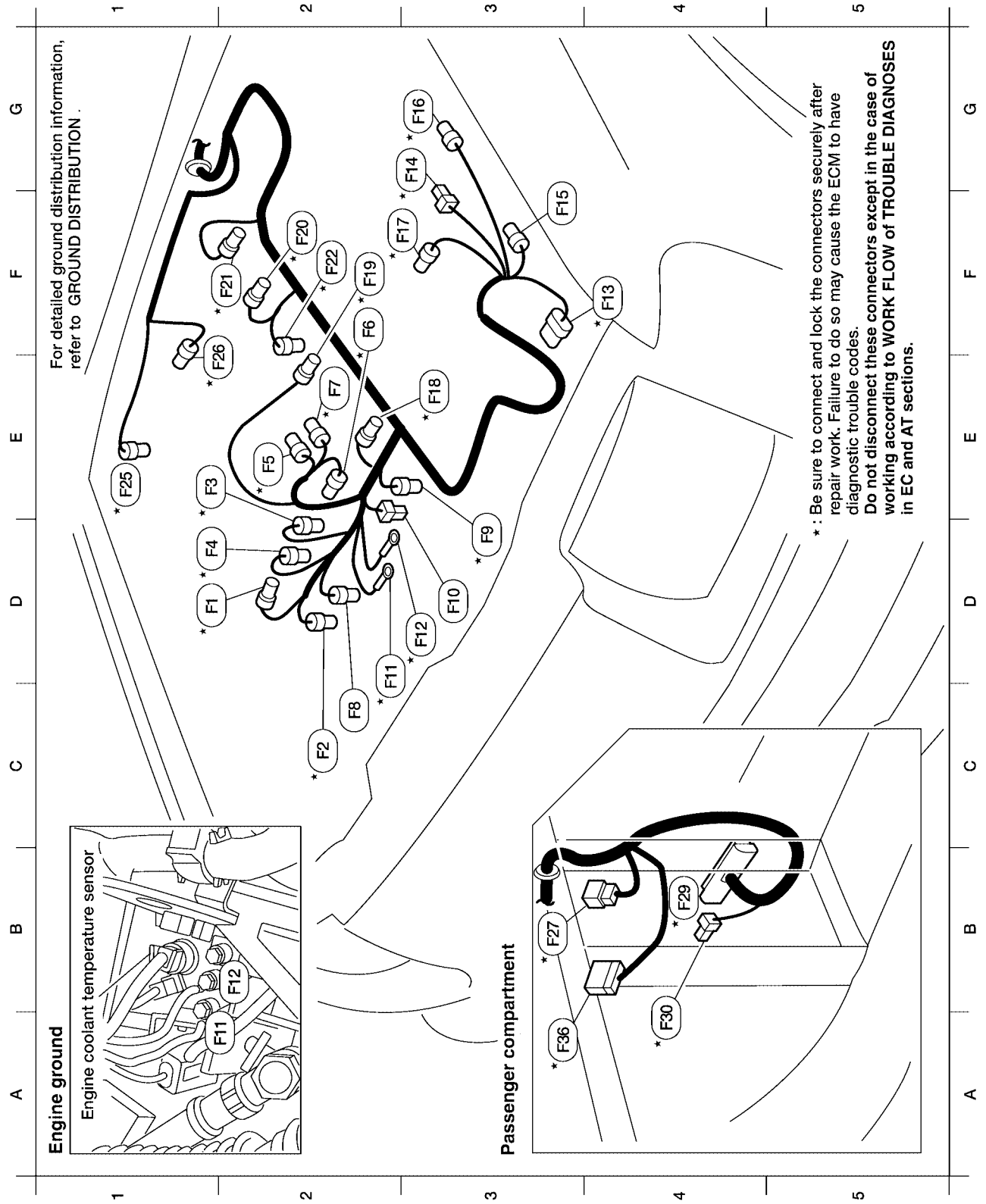
Passenger Compartment



WKIA0304E

Engine Control Harness
KA24DE

EKS00370



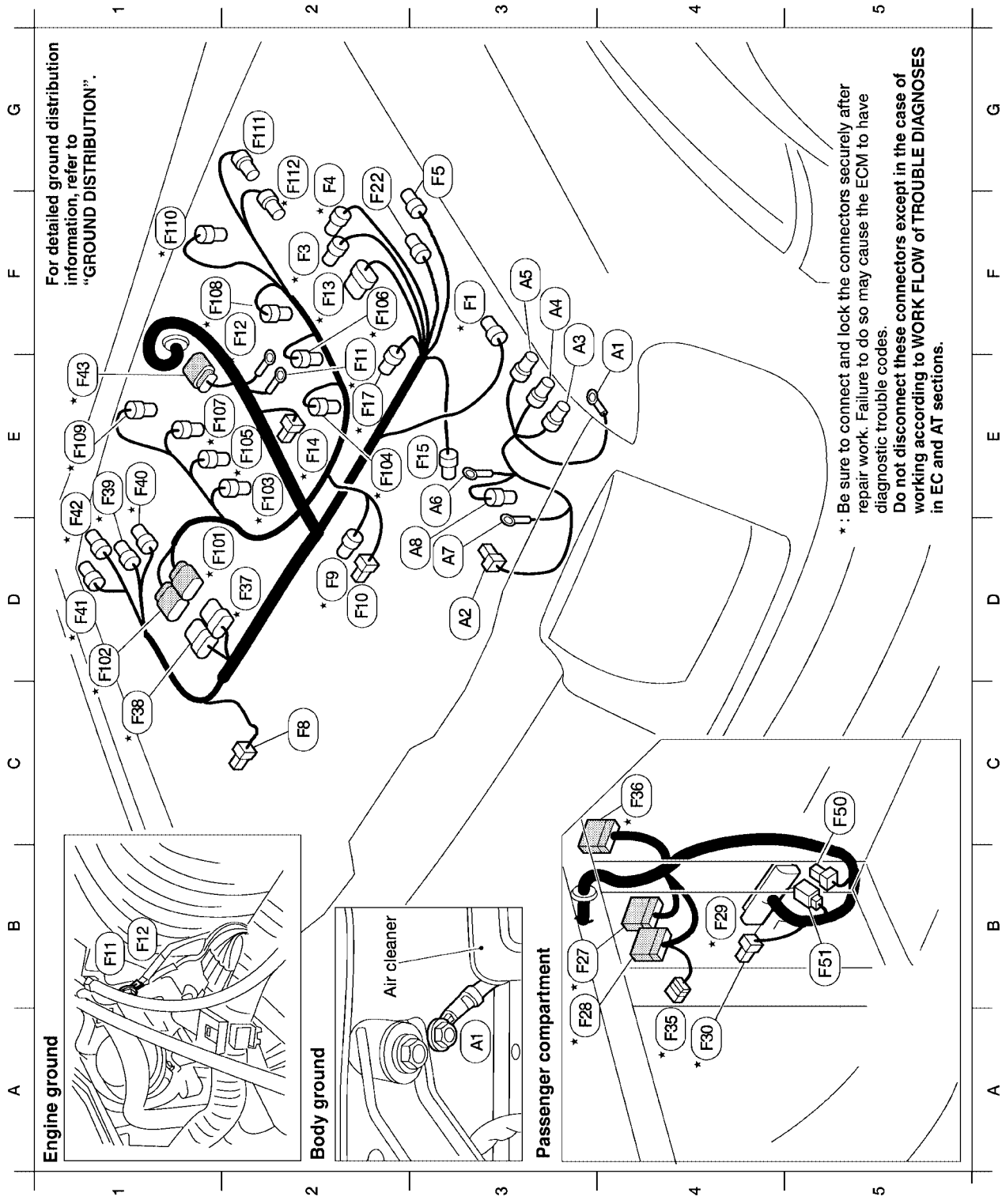
WKIA0305E

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

* : 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.

WKIA0306E

VG33E

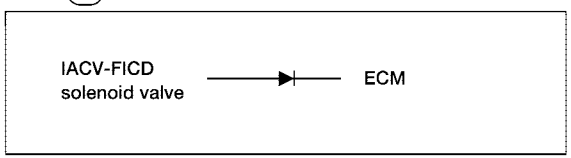


WKIA0307E

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 (M58)
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 (F101)
C1 * (F38) GY/8 : To (F102)
E1 * (F39) GY/4 : Heated oxygen sensor 2 (bank 2)
E1 * (F40) GY/3 : Heated oxygen sensor 1 (bank 2)
D1 * (F41) GY/3 : Heated oxygen sensor 1 (bank 1)
D1 * (F42) GY/4 : Heated oxygen sensor 2 (bank 1)
E1 * (F43) GY/8 : To (F201)

Diode (F35)



WKIA0308E

ENGINE CONTROL HARNESS (CONTINUED)

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

ENGINE SUB HARNESS

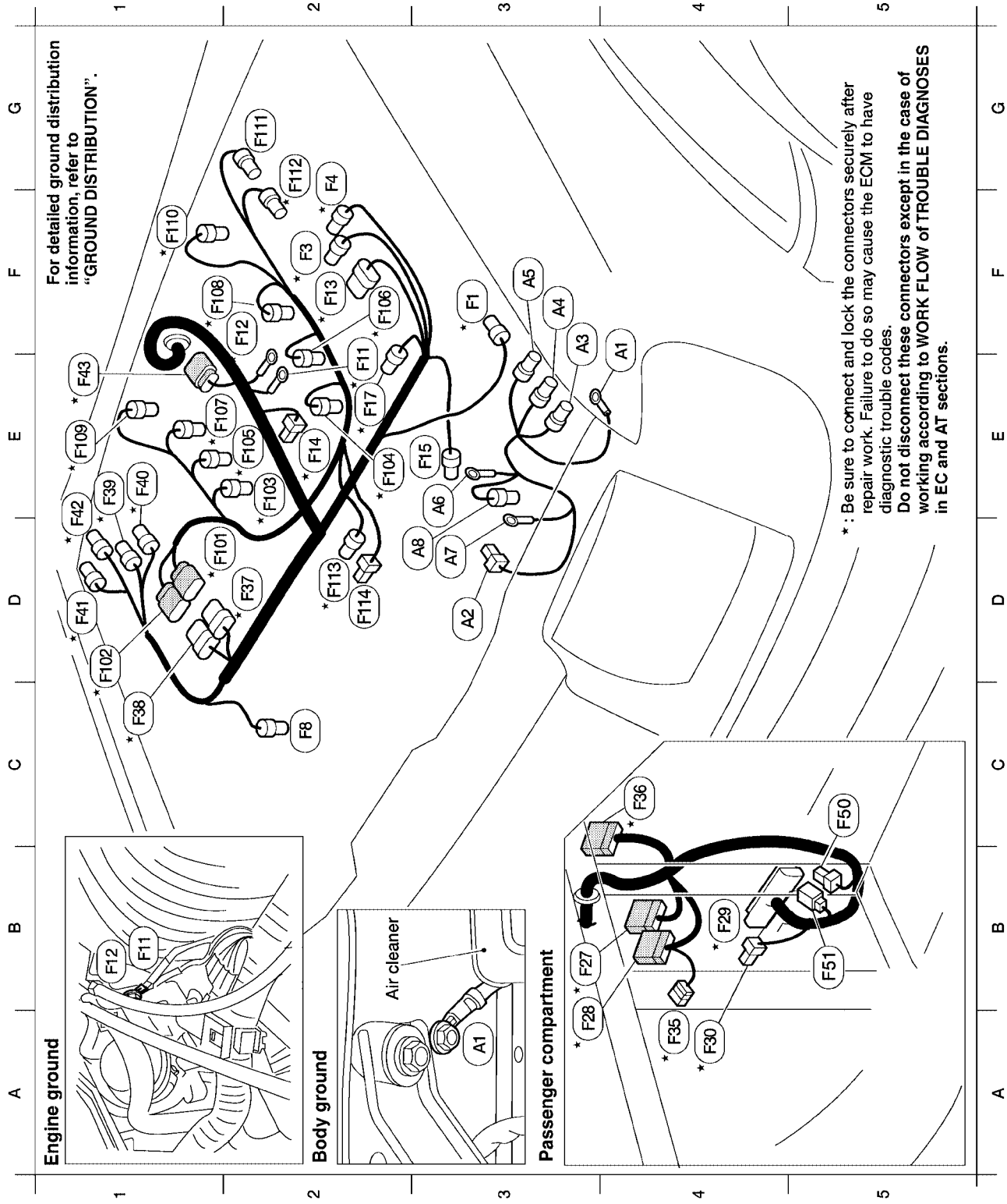
D2 * (F101) B/8 : To (F37)
D1 * (F102) GY/8 : To (F38)
E2 * (F103) B/2 : Injector No. 1
E2 * (F104) B/2 : Injector No. 2
E2 * (F105) B/2 : Injector No. 3
F2 * (F106) B/2 : Injector No. 4
E2 * (F107) B/2 : Injector No. 5
F1 * (F108) B/2 : Injector No. 6
E1 * (F109) GY/2 : Knock sensor
F1 * (F110) GY/3 : 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 (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.

VG33ER



WKIA0309E

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)	GY/4	:	Heated oxygen sensor 2 (bank 2)
E1	* (F40)	GY/3	:	Heated oxygen sensor 1 (bank 2)
D1	* (F41)	GY/3	:	Heated oxygen sensor 1 (bank 1)
D1	* (F42)	GY/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)

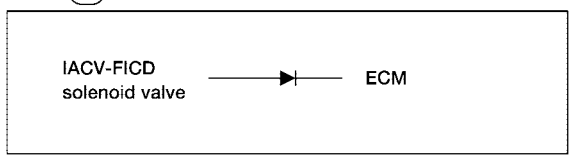
ENGINE SUB HARNESS

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

Diode (F35)

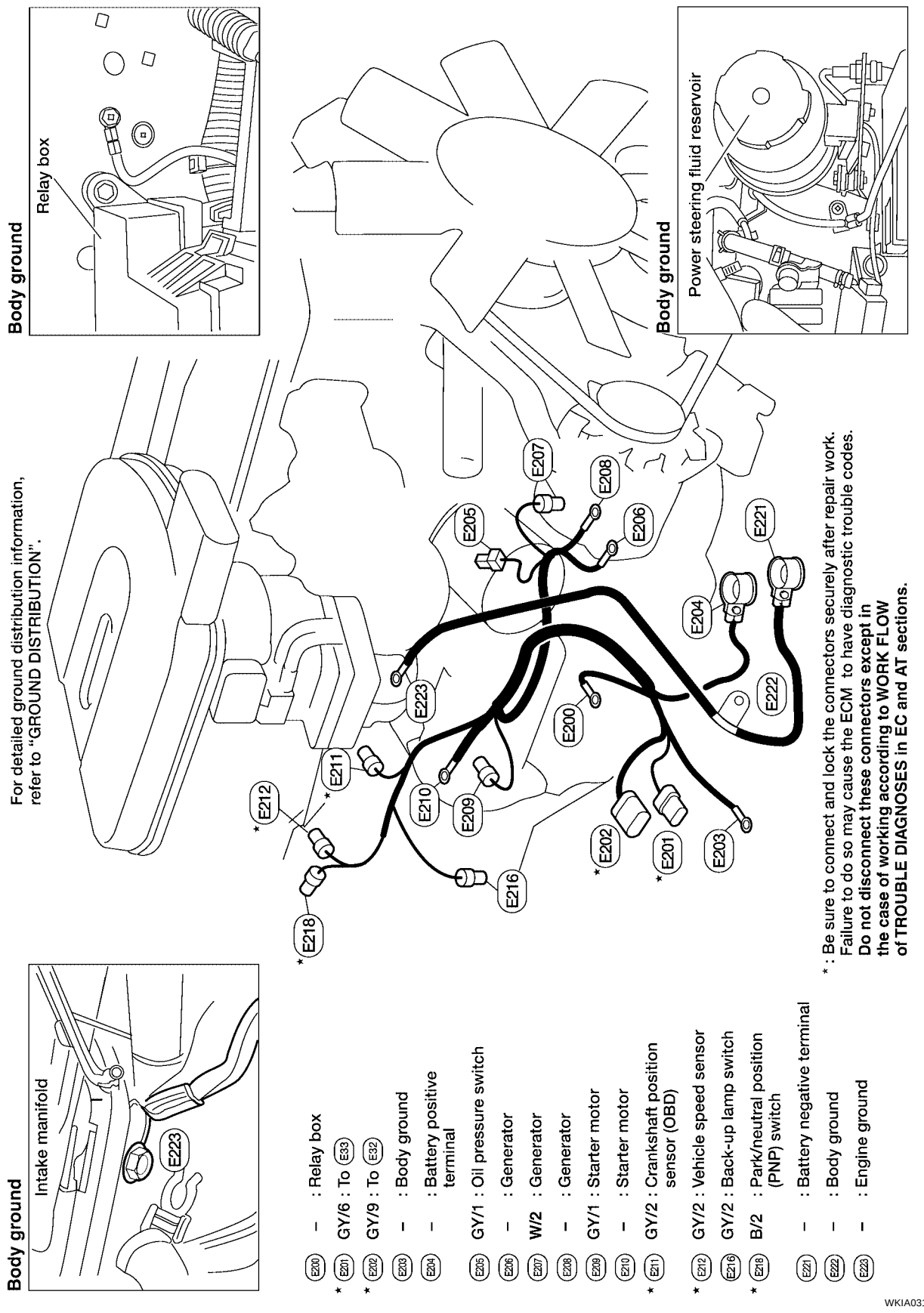


WKIA0310E

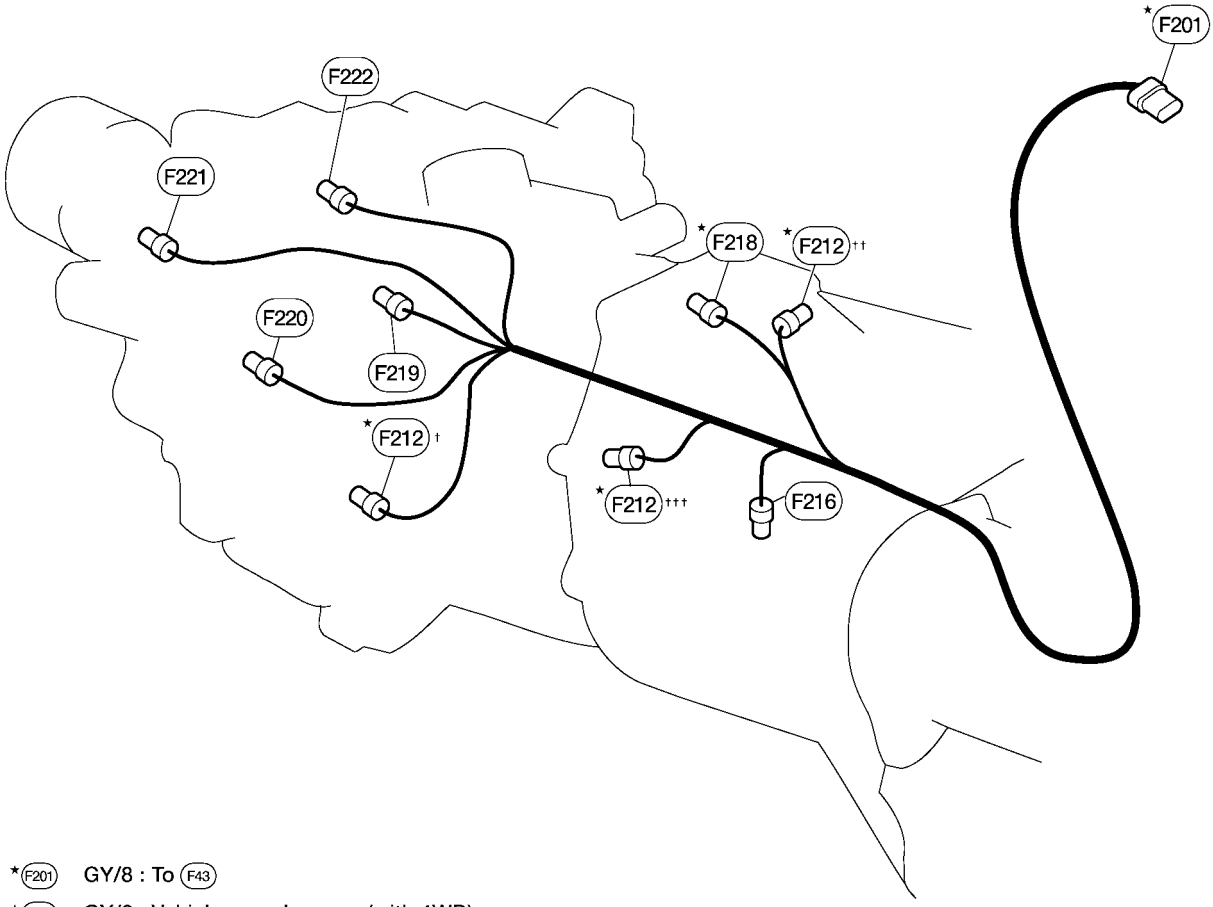
★ : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

Engine No. 2 Harness
KA24DE

EKS00371



VG33E

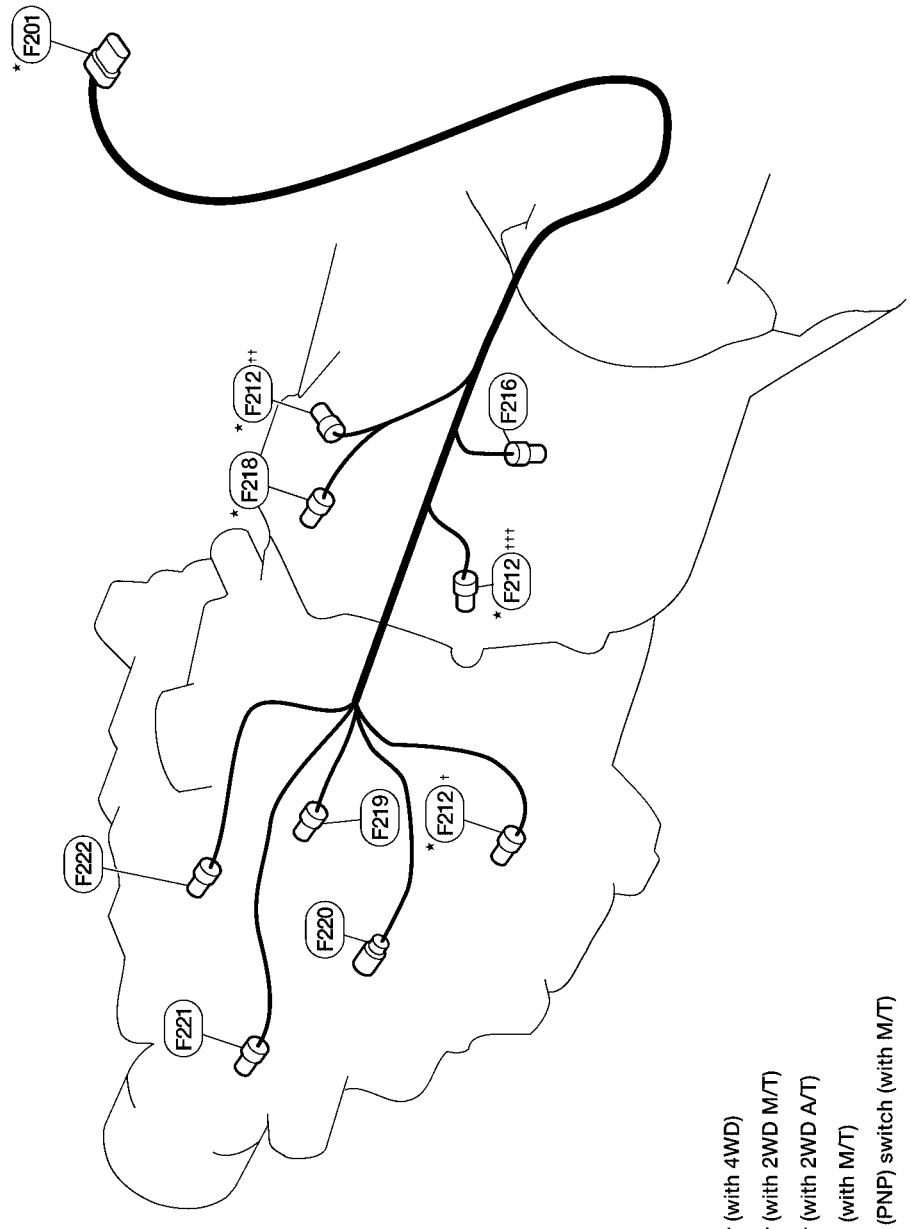


*F201 GY/8 : To F43
*F212† GY/2 : Vehicle speed sensor (with 4WD)
*F212†† GY/2 : Vehicle speed sensor (with 2WD M/T)
*F212††† GY/2 : Vehicle speed sensor (with 2WD A/T)
F216 GY/2 : Back-up lamp switch (with M/T)
*F218 B/2 : Park/neutral position (PNP) switch (with M/T)
F219 GY/1 : 4WD switch (with M/T)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

* : 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.

LEL350A

VG33ER



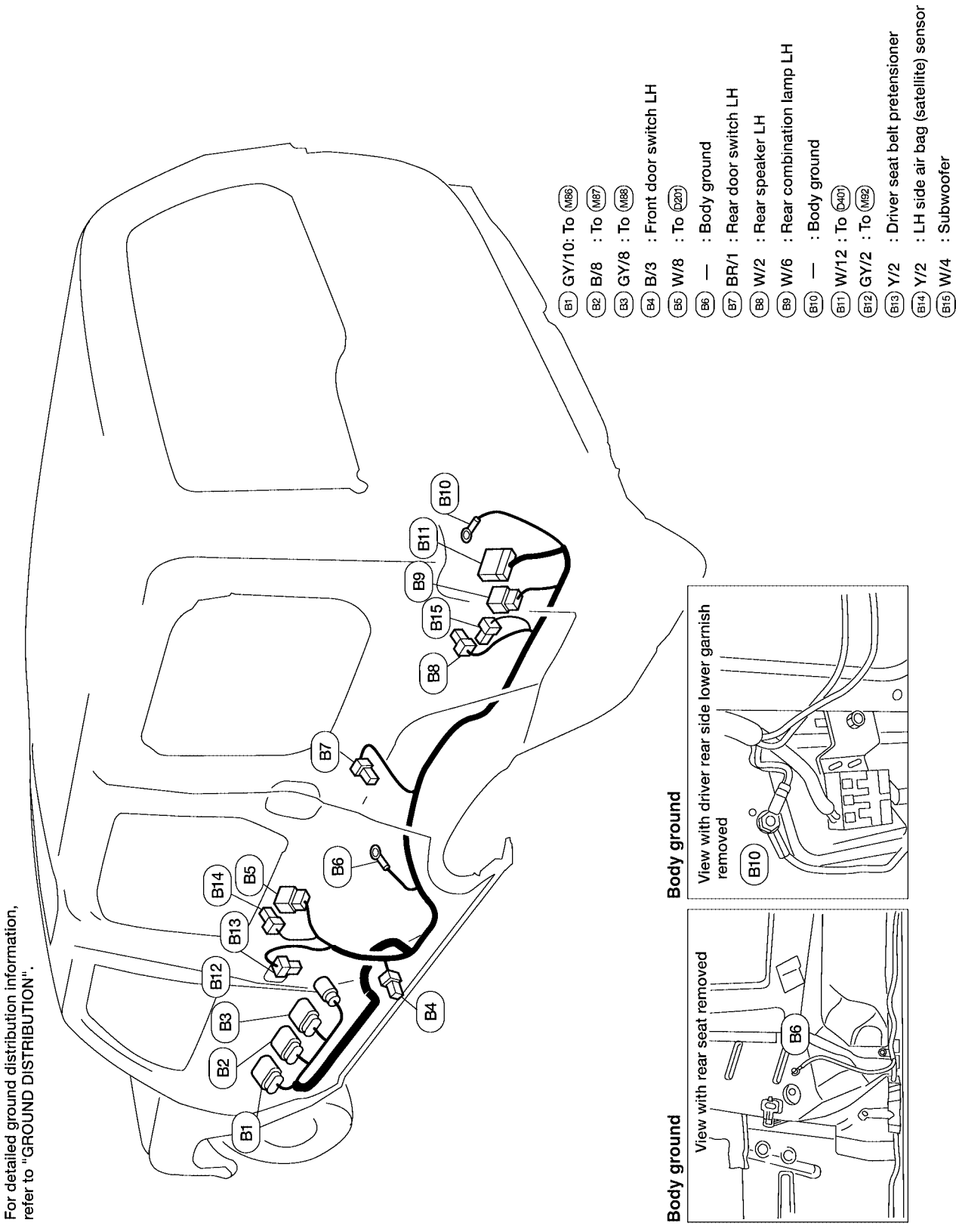
★ : Be sure to connect and lock the connectors securely after repair work. Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

★ (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)

WKIA0312E

Body Harness

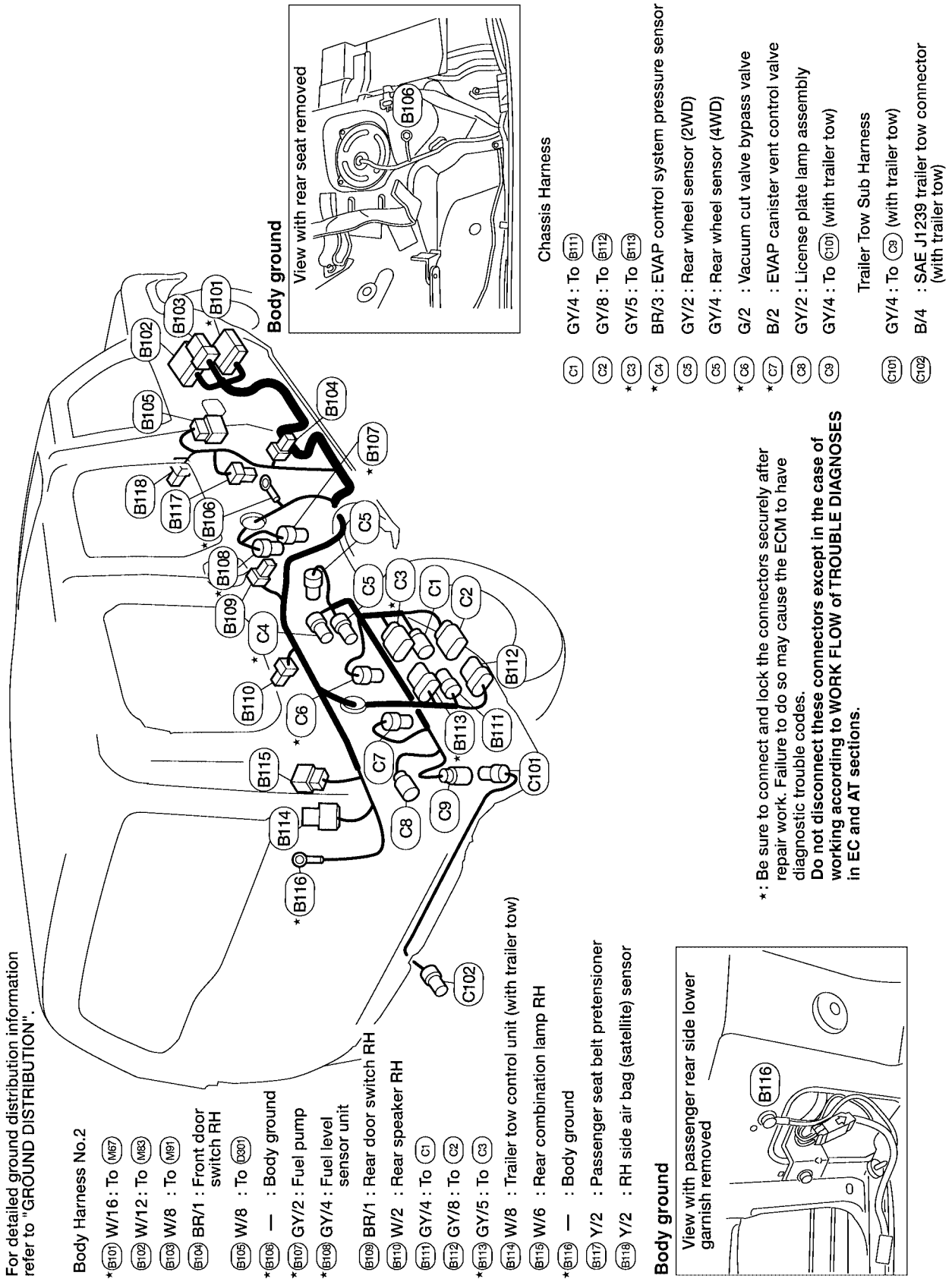
EKS00372



WKIA0313E

Body No. 2 and Chassis Harness

EKS00373

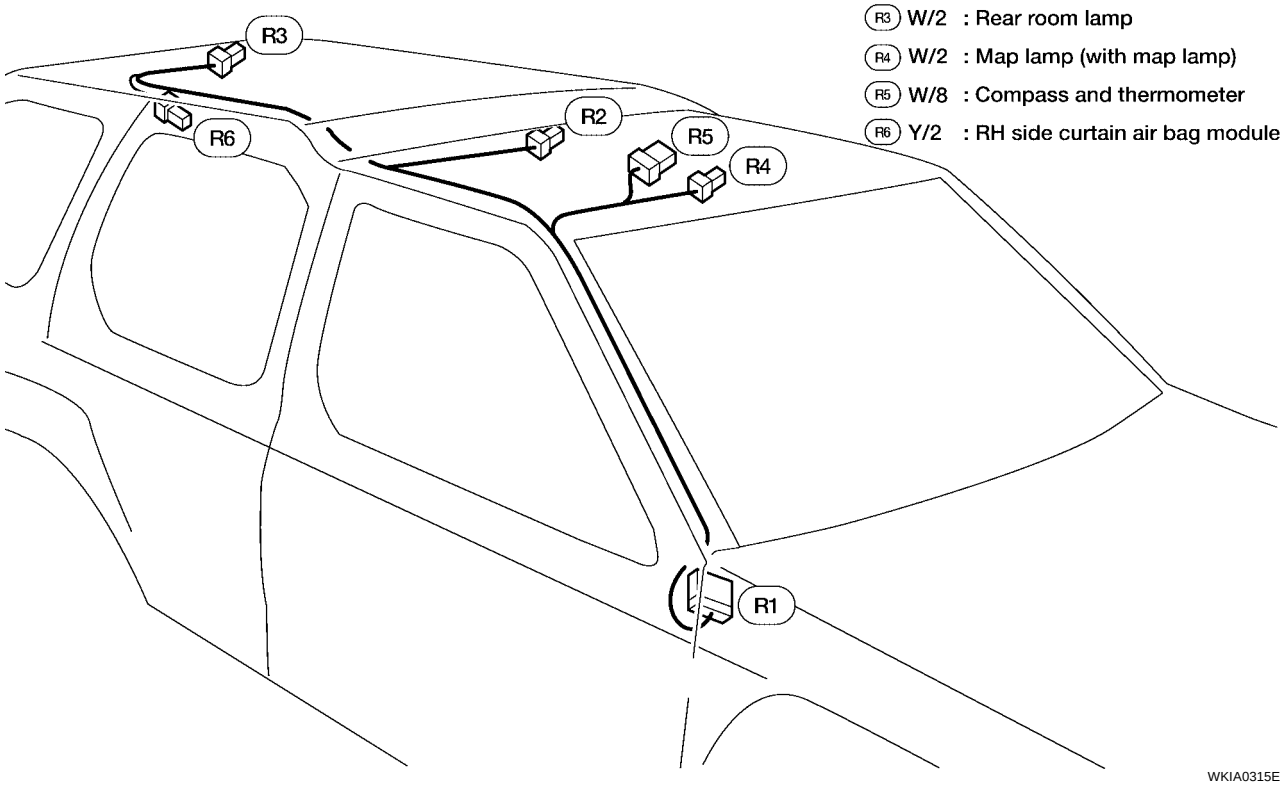


WKIA0314E

Room Lamp Harness

EKS00374

(R1) W/12 : To (M2)
(R2) W/2 : Front room lamp
(R3) W/2 : Rear room lamp
(R4) W/2 : Map lamp (with map lamp)
(R5) W/8 : Compass and thermometer
(R6) Y/2 : RH side curtain air bag module

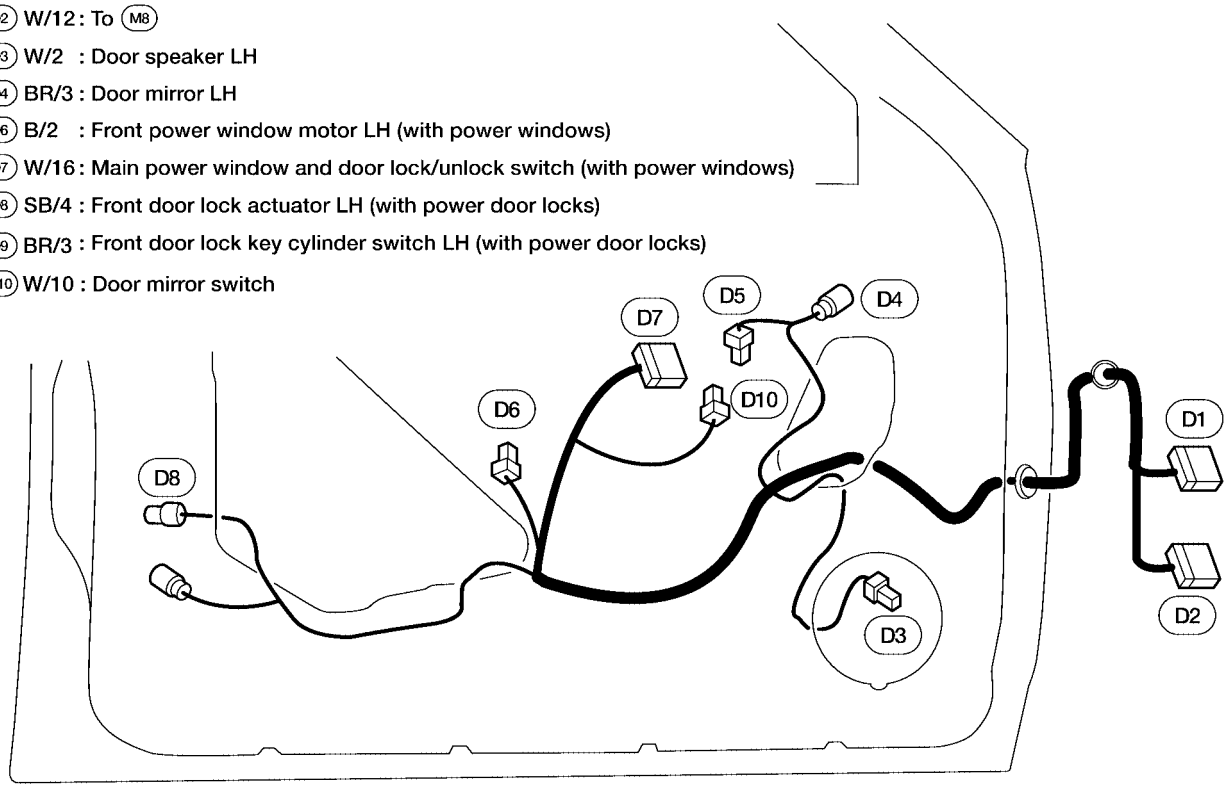


WKIA0315E

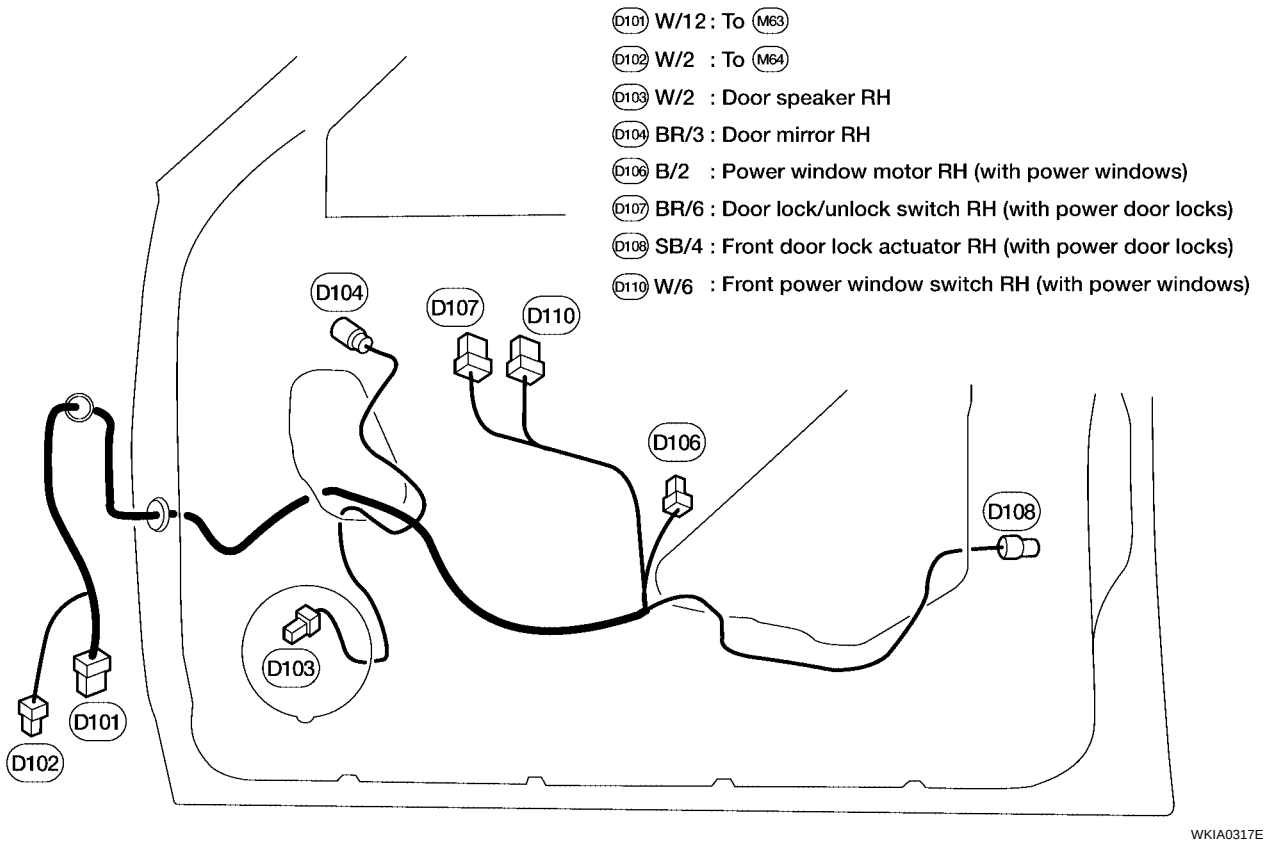
Front Door Harness

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



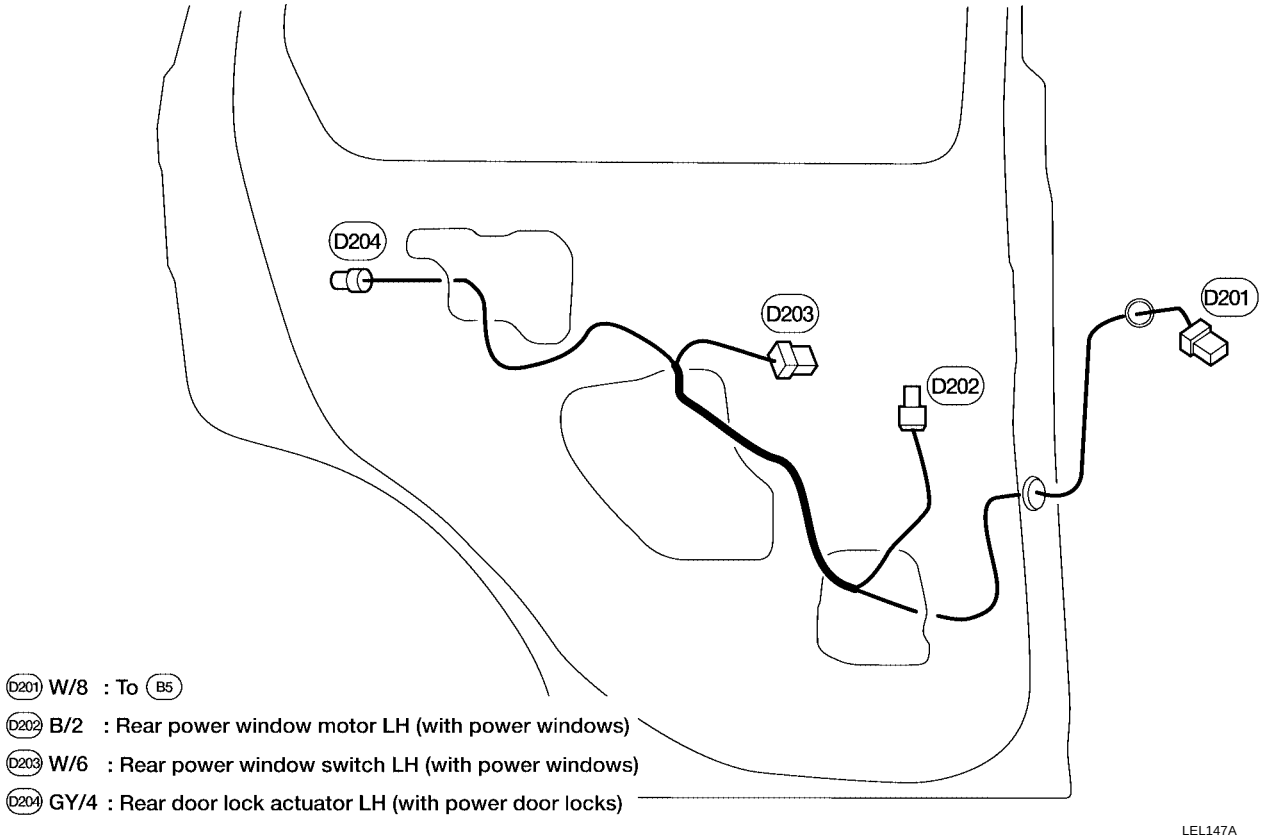
WKIA0316E



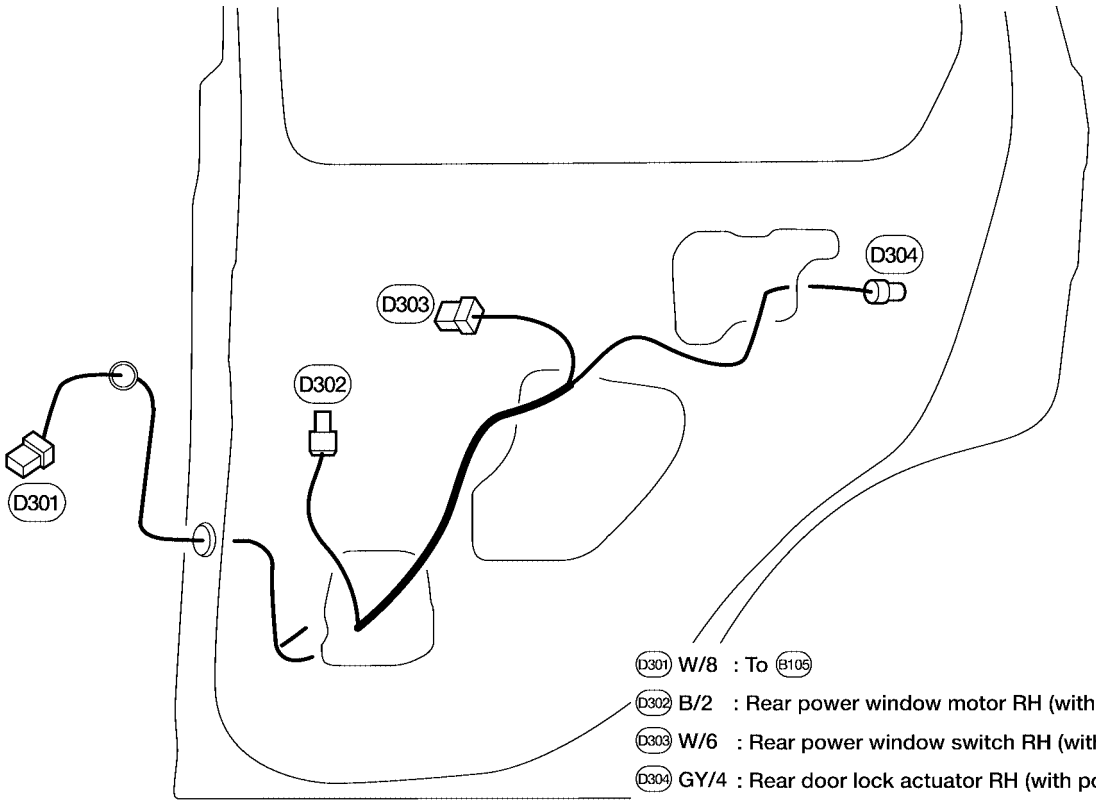
WKIA0317E

Rear Door Harness

EKS00376



LEL147A

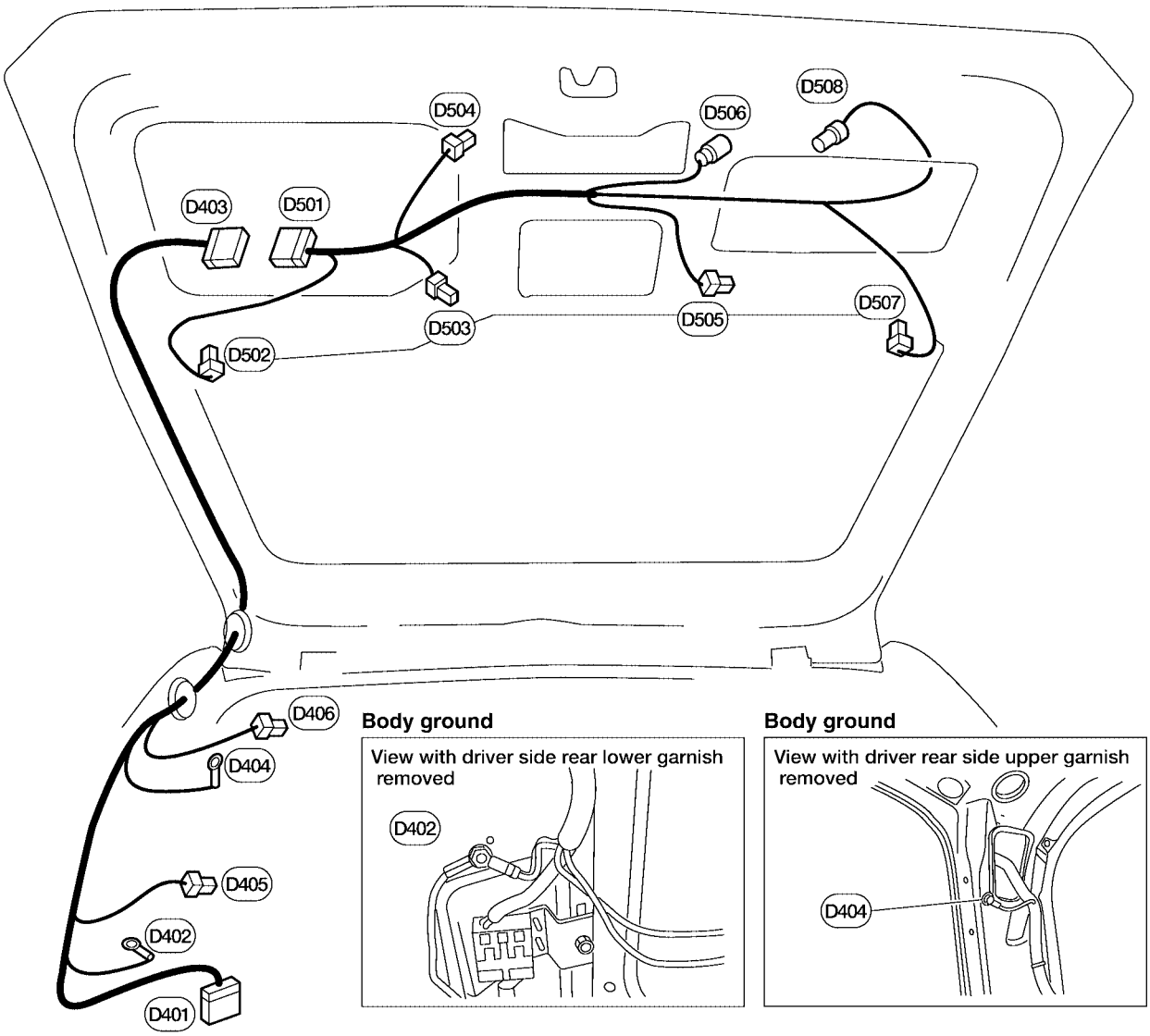


D301 W/8 : To B105
D302 B/2 : Rear power window motor RH (with power windows)
D303 W/6 : Rear power window switch RH (with power windows)
D304 GY/4 : Rear door lock actuator RH (with power door locks)

LEL148A

Back Door Harness

EKS00377



Back Door No. 2 Harness

- D401 W/12 : To B11
- D402 — : Body ground
- D403 W/12 : To D501
- D404 — : Body ground
- D405 B/2 : Rear power socket
- D406 Y/2 : LH side curtain air bag module

Back Door Harness

- D501 W12 : 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 GY/4 : Back door lock actuator (with power door locks)

WKIA0318E

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

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 1Heater 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

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

SUPER MULTIPLE JUNCTION (SMJ)

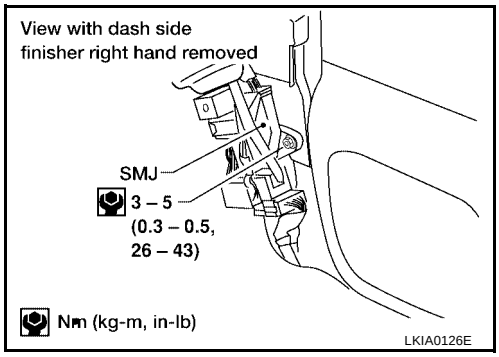
PFP:84341

Installation

EKS0037A

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

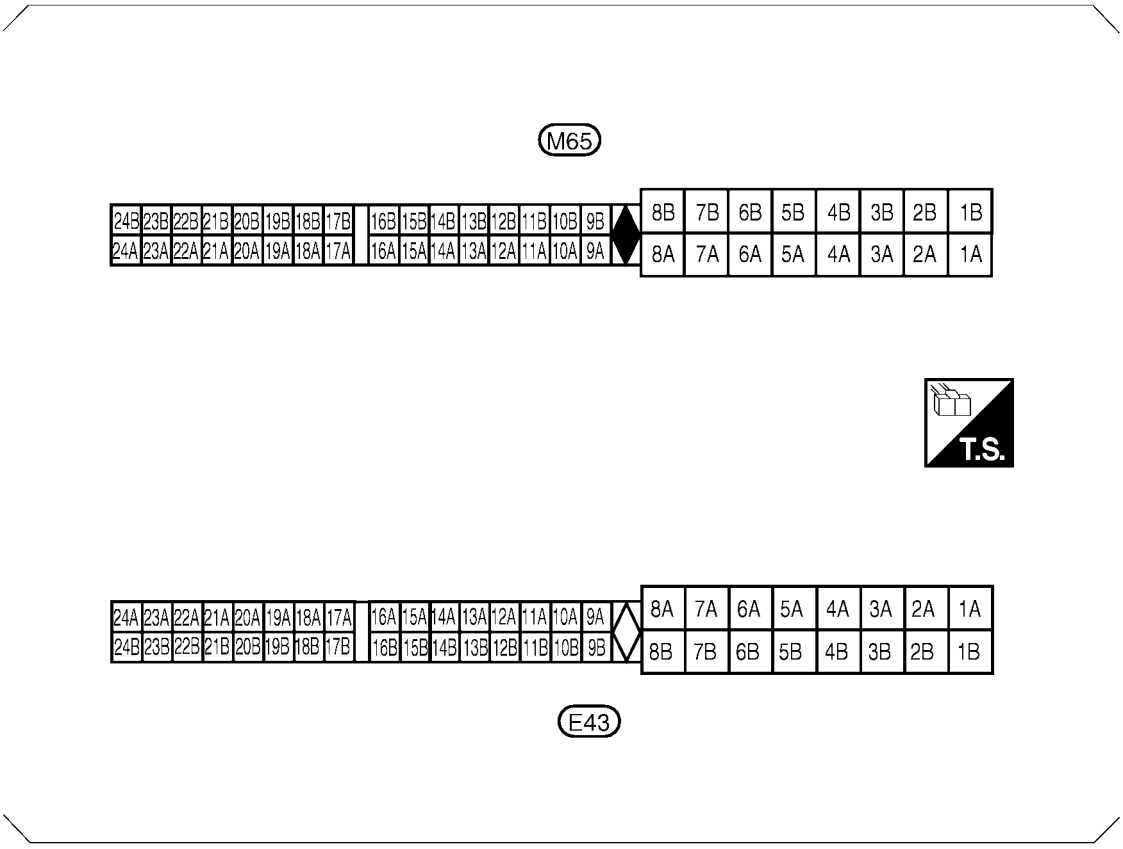
: 3 - 5 N·m (0.3 - 0.5 kg-m, 26 - 43 in-lb)



Terminal Arrangement

EKS0037B

MAIN HARNESS



ENGINE ROOM HARNESS

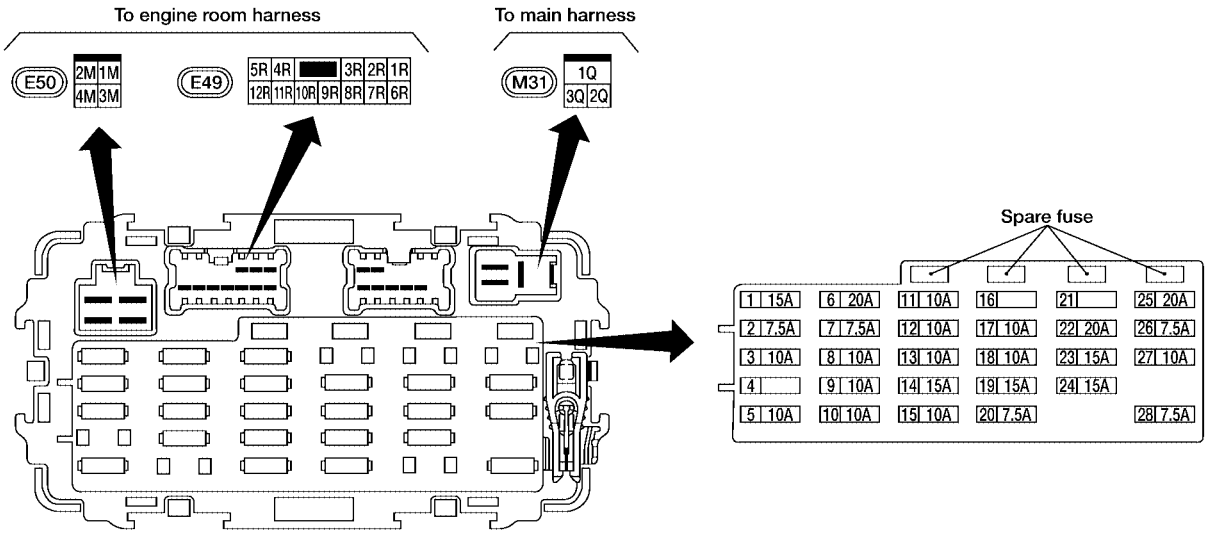
AEL646B

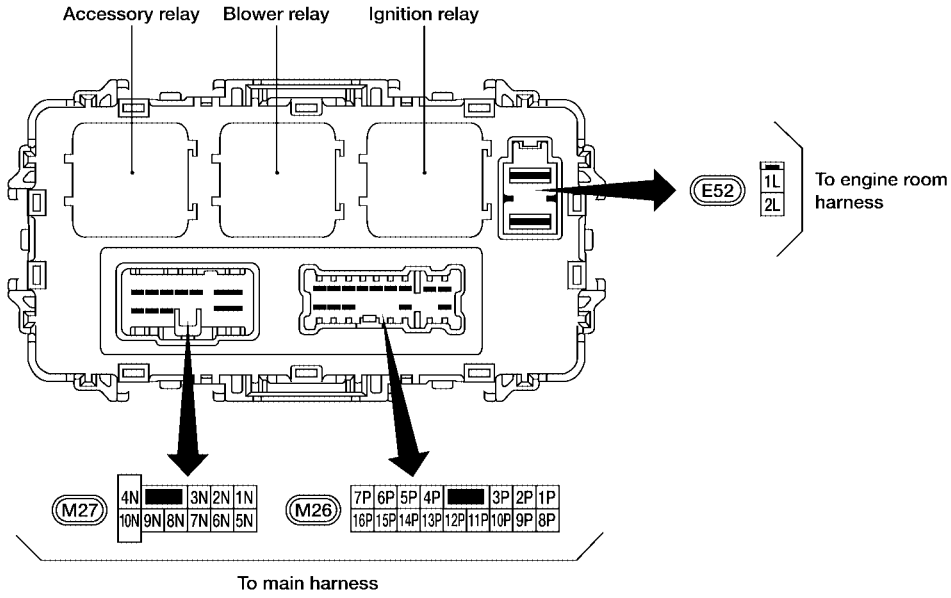
FUSE BLOCK — JUNCTION BOX (J/B)

PFP:24350

Terminal Arrangement

EKS0037C





WEL913A

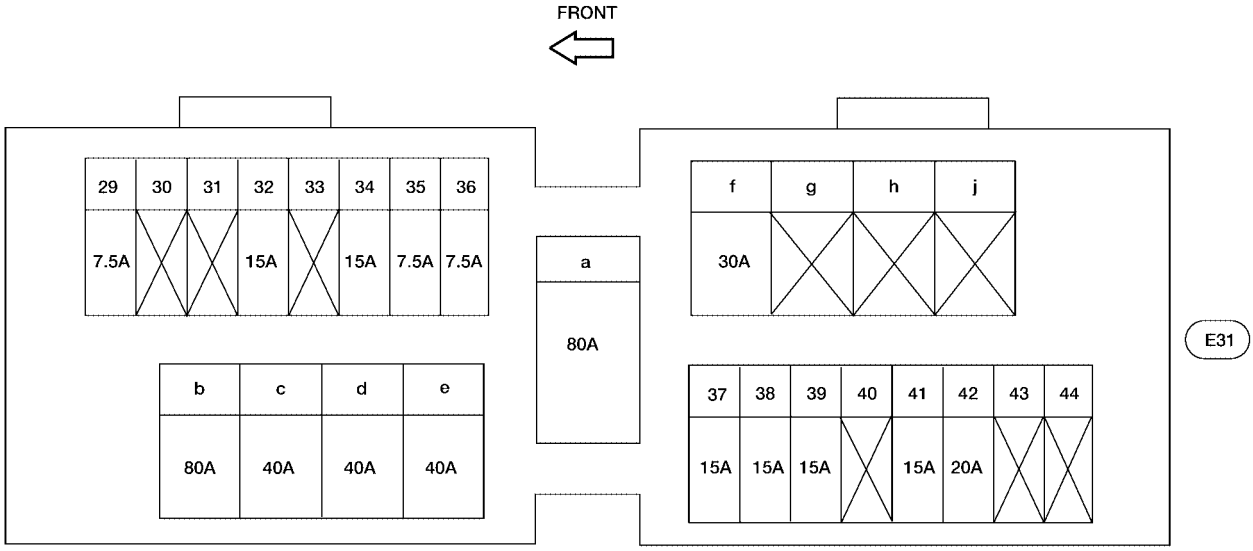
FUSE AND FUSIBLE LINK BOX

PFP:24381

Terminal Arrangement

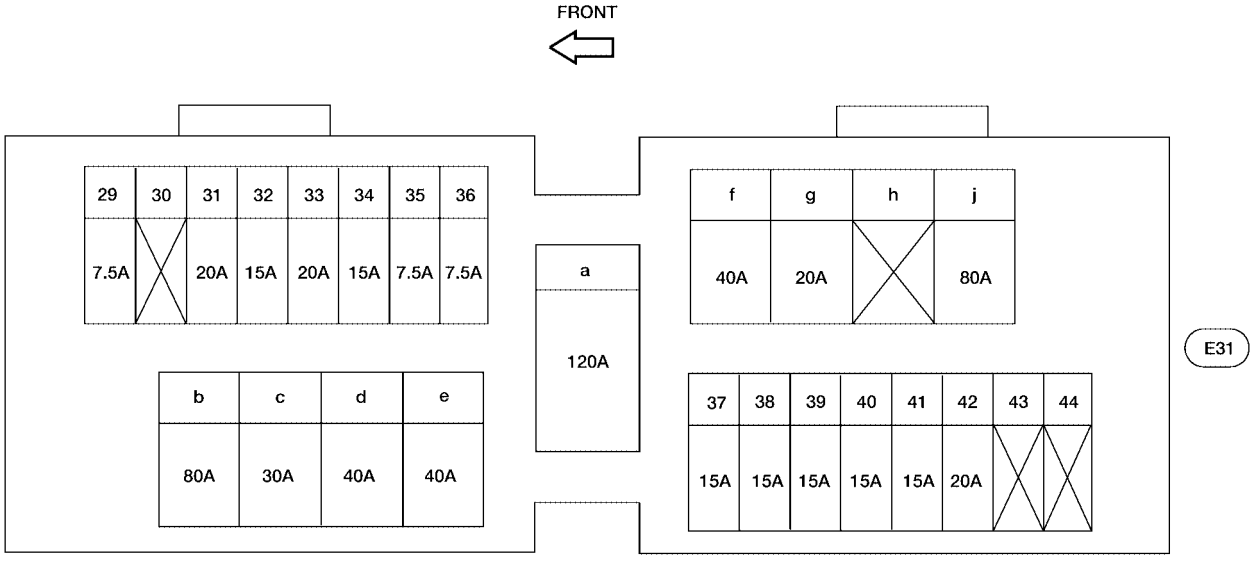
EKS0037D

For KA24DE



No. 29 - 44: FUSE a - j: FUSIBLE LINK

For VG33E and VG33ER



No. 29 - 44: FUSE a - j: FUSIBLE LINK

WKIA1392E

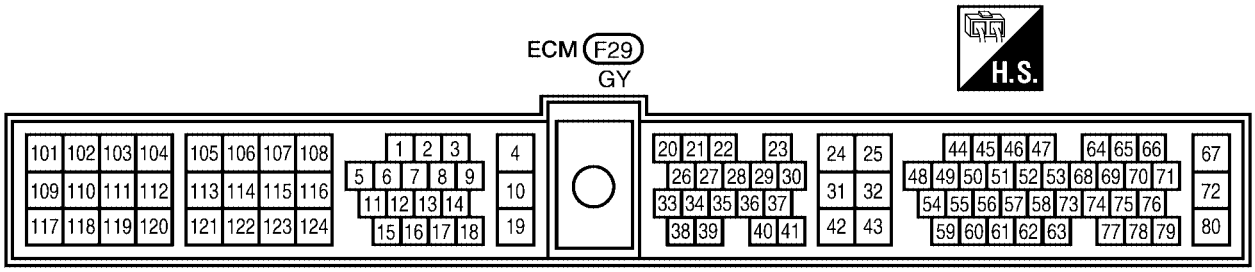
ELECTRICAL UNITS

PFP:25230

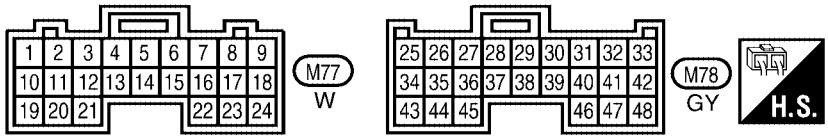
Terminal Arrangement

EKS0037F

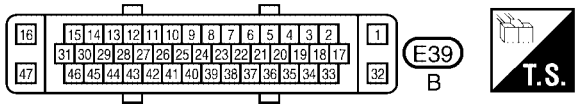
ECM F29
GY



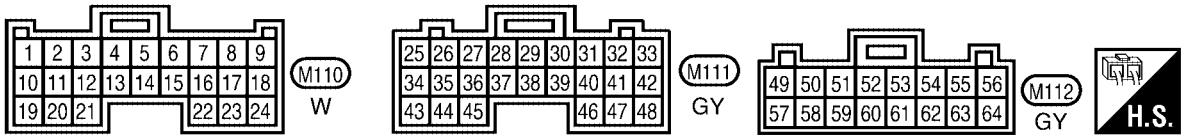
TCM (TRANSMISSION CONTROL MODULE)



ABS ACTUATOR AND ELECTRIC UNIT
(CONTROL UNIT)



SMART ENTRANCE CONTROL UNIT



WKIA0319E