

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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FUSE BLOCK-JUNCTION BOX(J/B)	71	FUSE AND FUSIBLE LINK BOX	72
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POWER SUPPLY ROUTING CIRCUIT

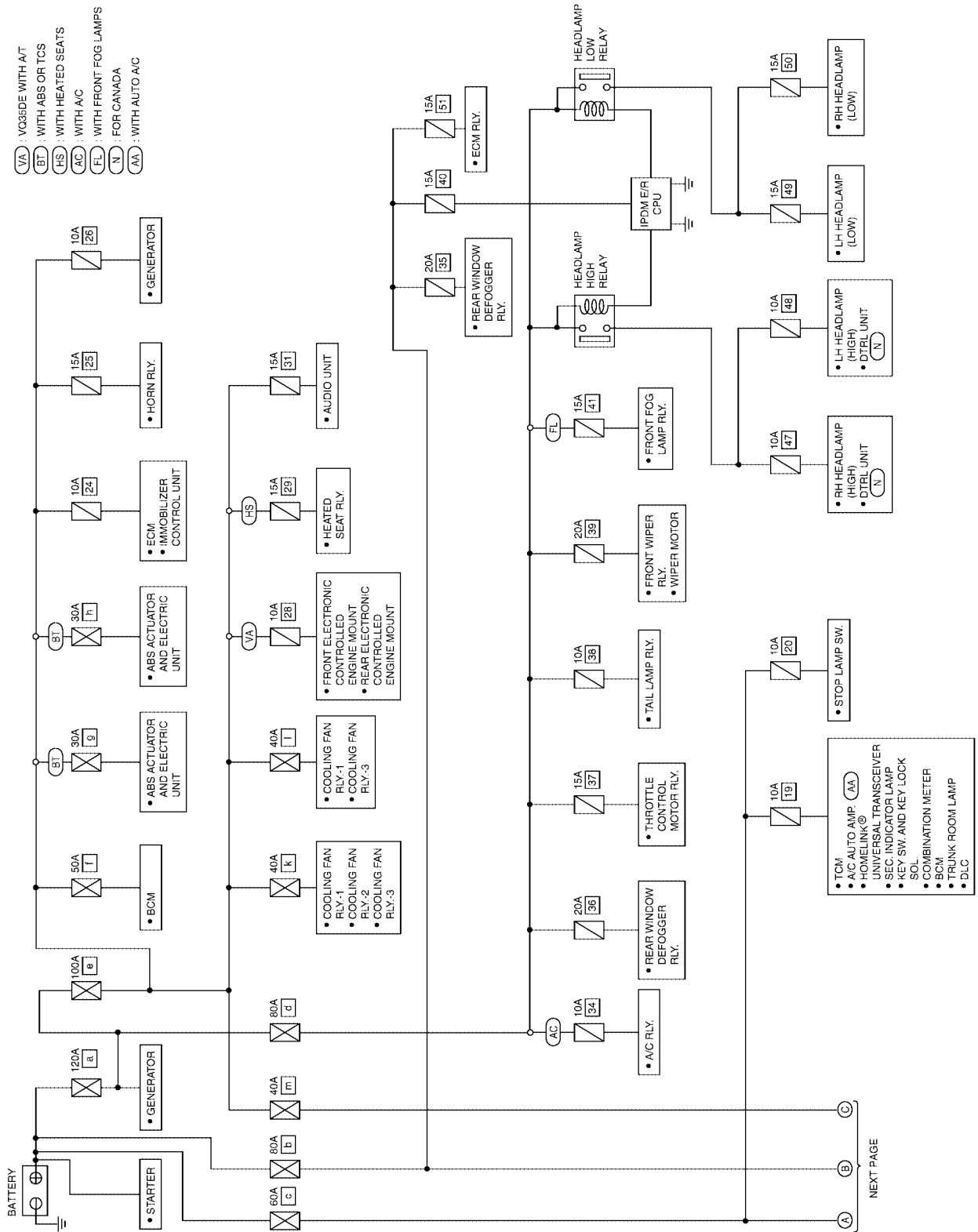
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EKS003J6

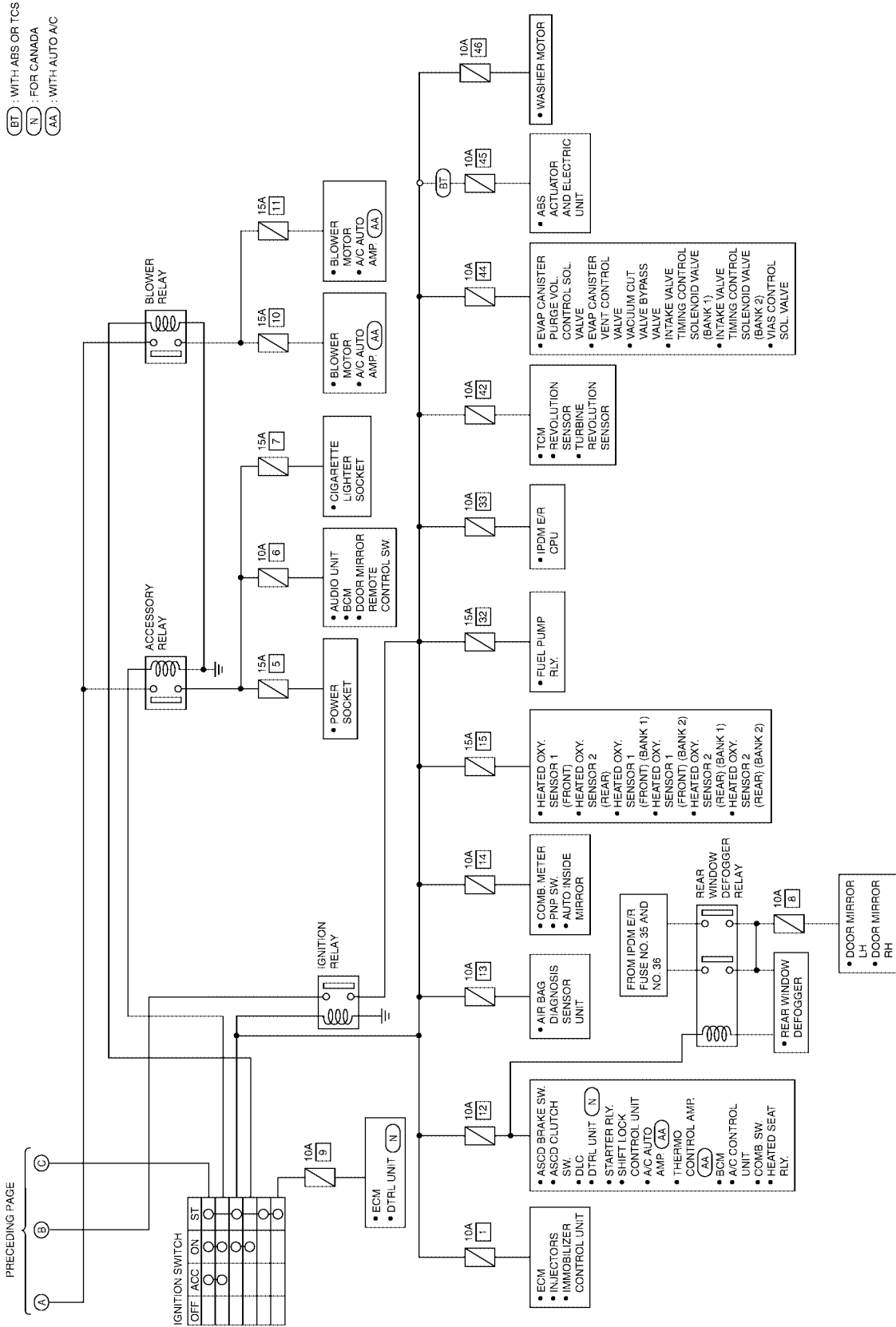
POWER SUPPLY ROUTING CIRCUIT

Schematic

For detailed ground distribution, refer to [PG-26, "Ground Distribution"](#).



POWER SUPPLY ROUTING CIRCUIT



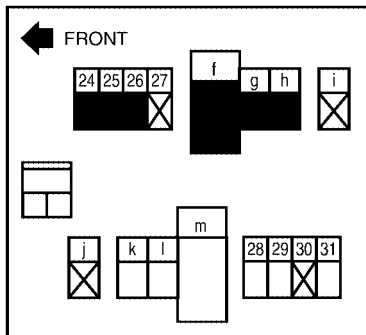
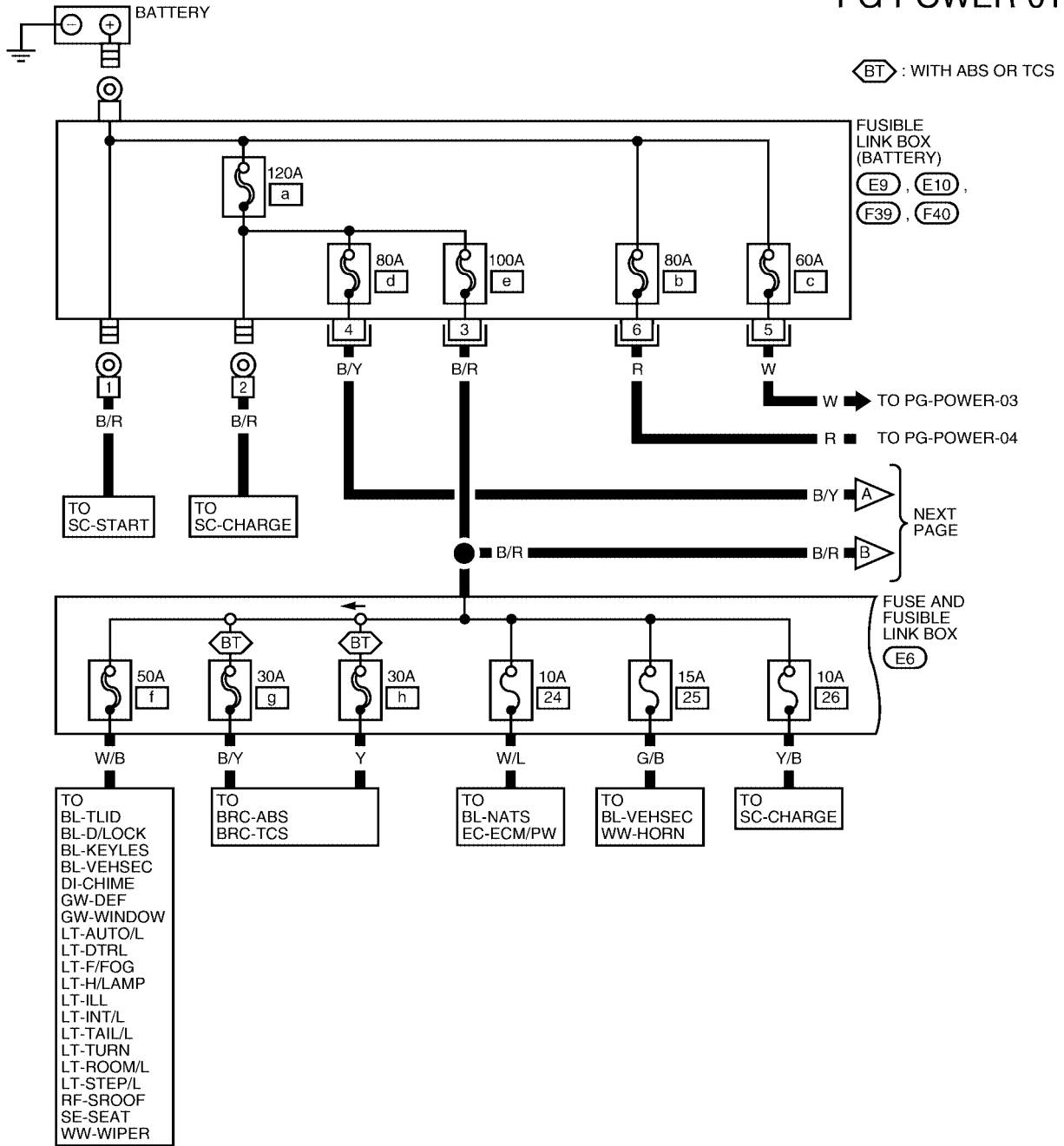
WKWA0094E

POWER SUPPLY ROUTING CIRCUIT

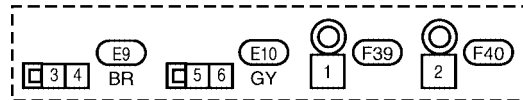
Wiring Diagram — POWER — BATTERY POWER SUPPLY — IGNITION SW. IN ANY POSITION

EKS003J7

PG-POWER-01



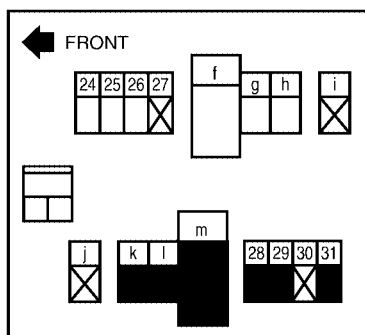
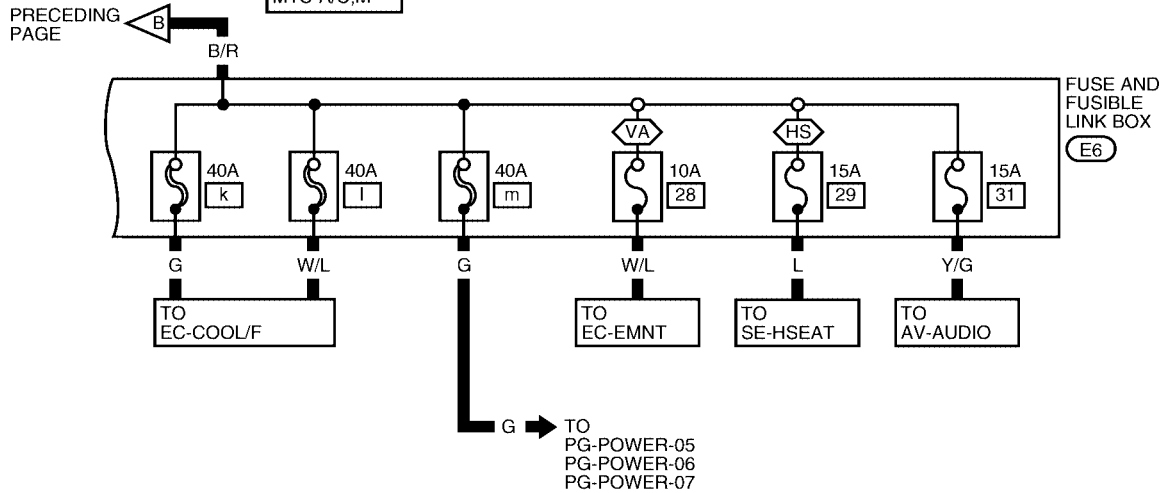
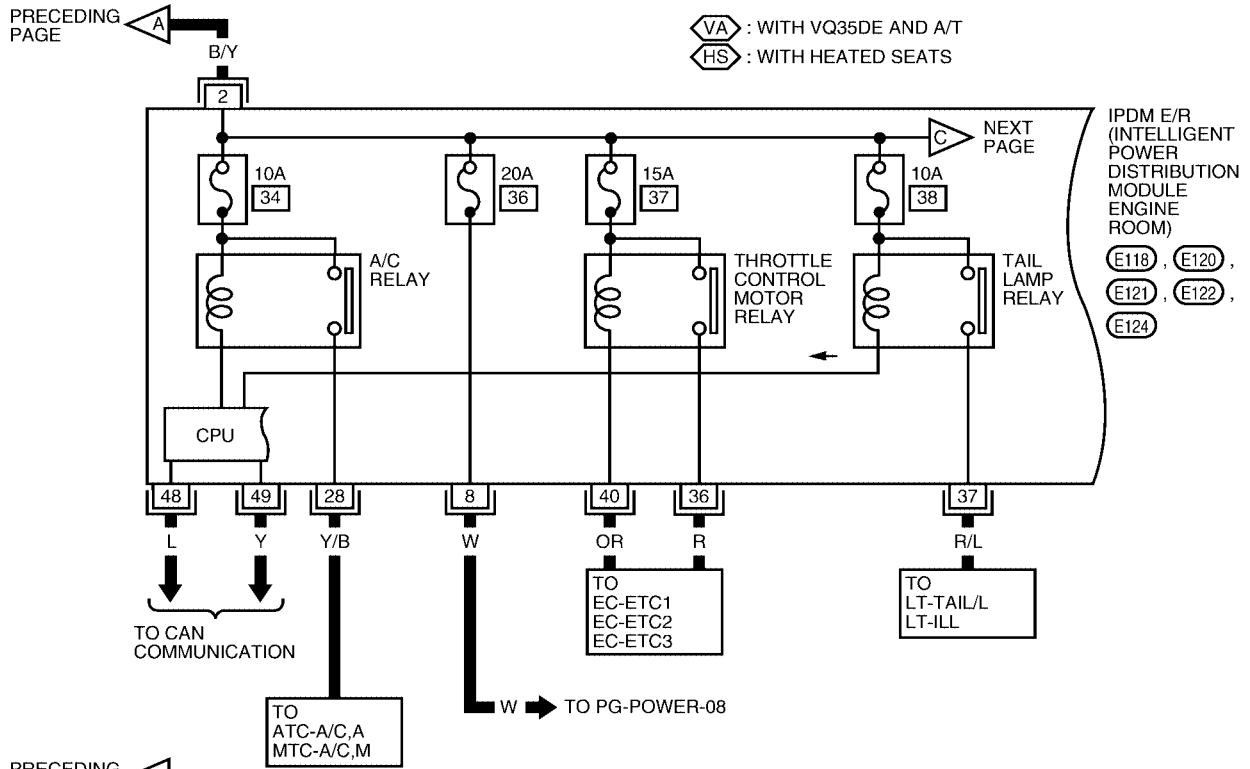
(E6)



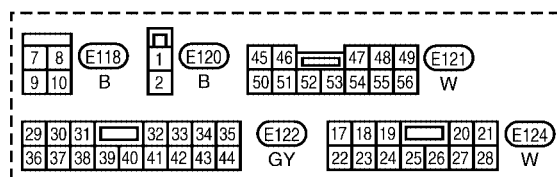
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POWER SUPPLY ROUTING CIRCUIT

PG-POWER-02



E6

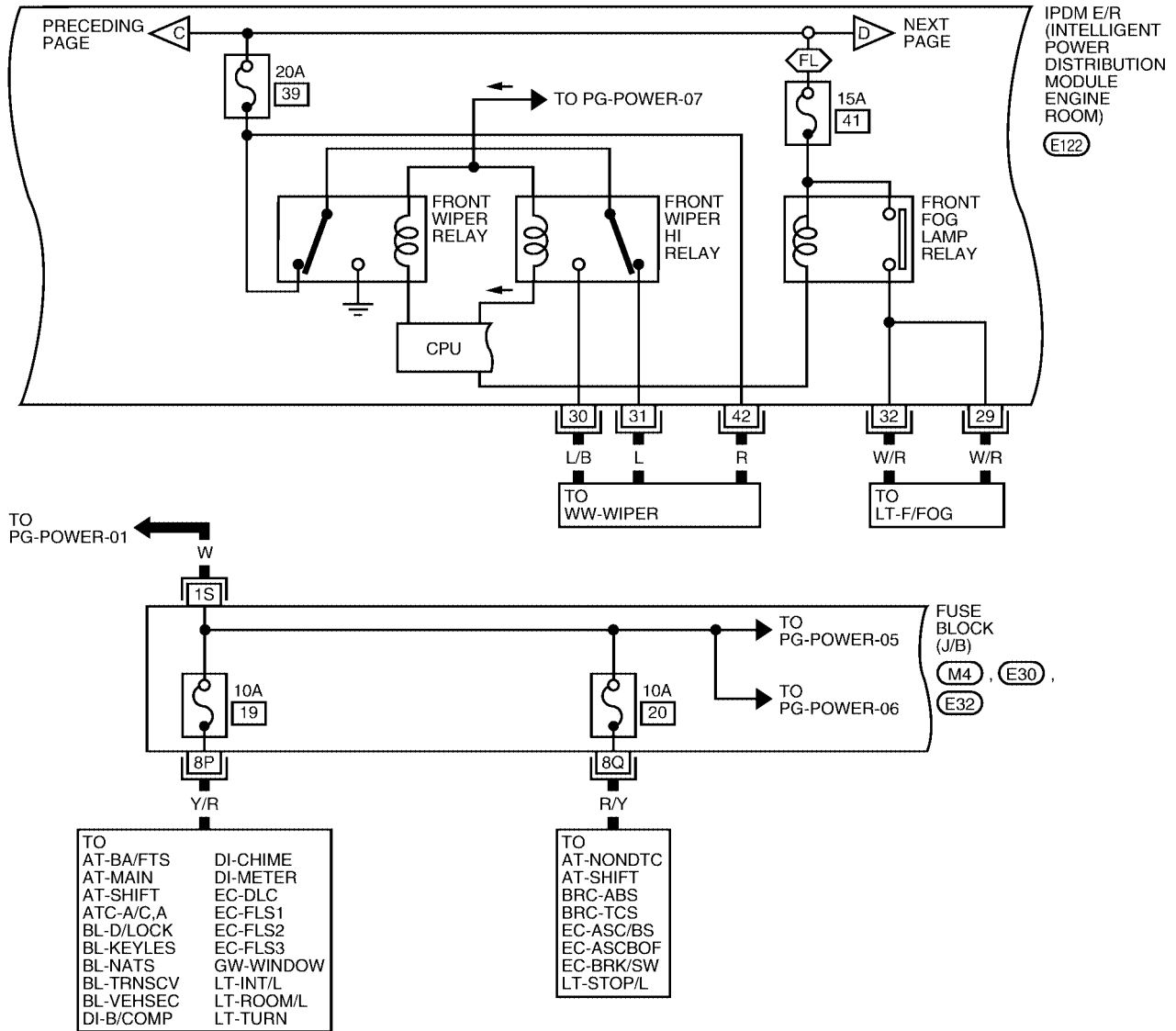


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POWER SUPPLY ROUTING CIRCUIT

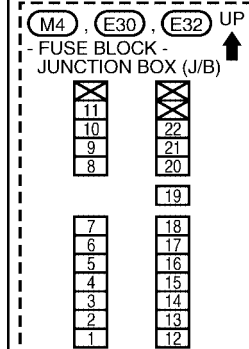
PG-POWER-03

⬡(FL) : WITH FRONT FOG LAMPS



29	30	31	32	33	34	35	E122
36	37	38	39	40	41	42	

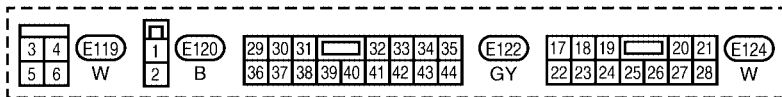
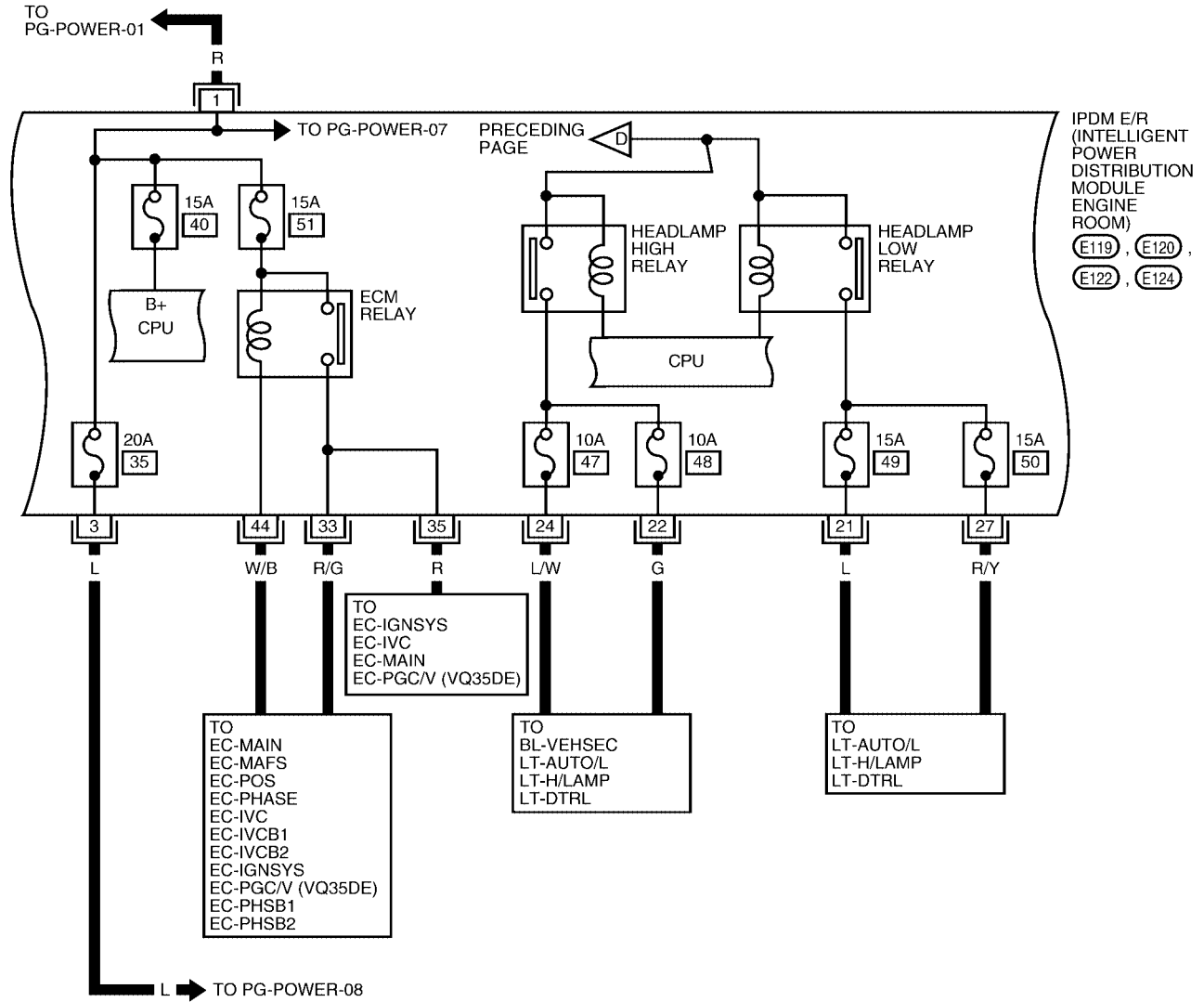
REFER TO THE FOLLOWING.



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POWER SUPPLY ROUTING CIRCUIT

PG-POWER-04

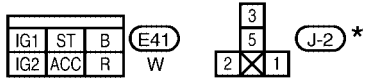
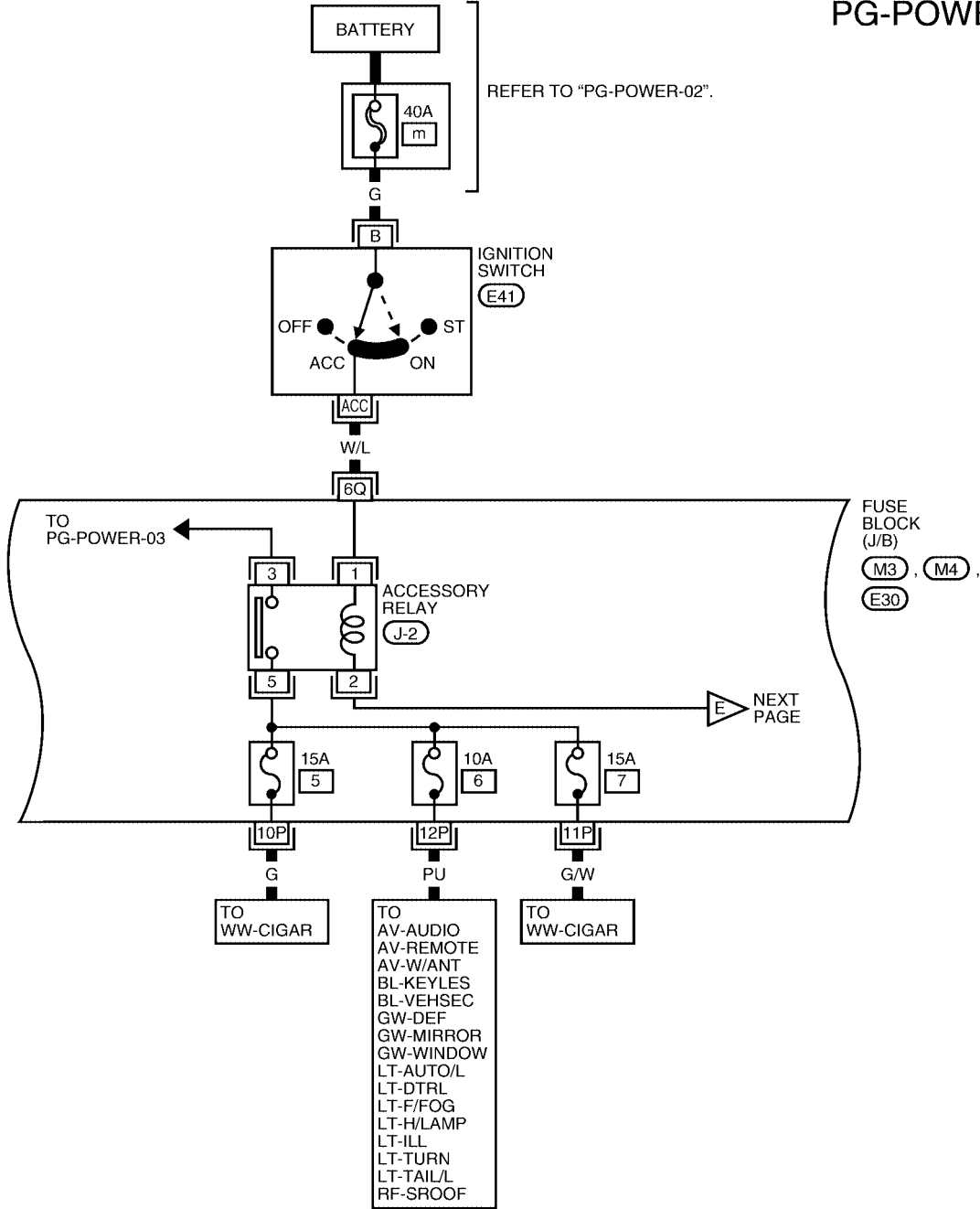


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POWER SUPPLY ROUTING CIRCUIT

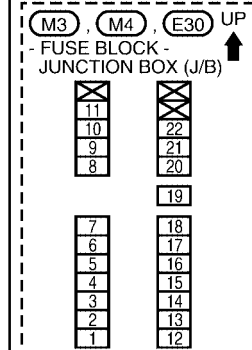
ACCESSORY POWER SUPPLY — IGNITION SW. IN ACC OR ON

PG-POWER-05



*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT".

REFER TO THE FOLLOWING.

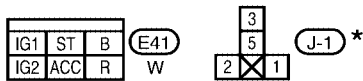
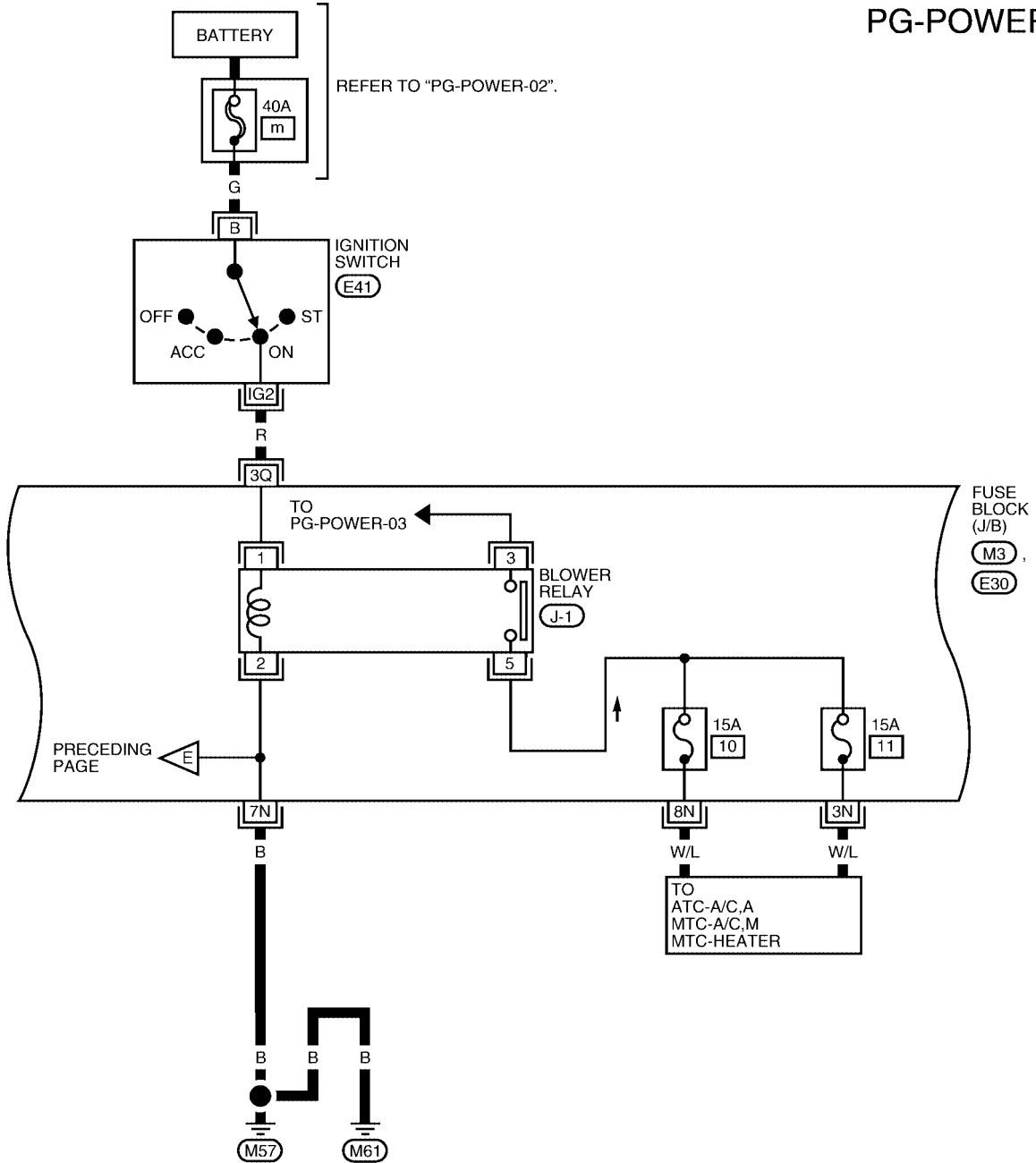


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POWER SUPPLY ROUTING CIRCUIT

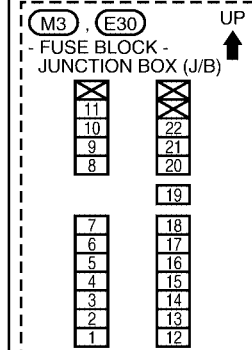
IGNITION POWER SUPPLY — IGNITION SW. IN ON

PG-POWER-06



*: THIS CONNECTOR IS NOT SHOWN IN "HARNESS LAYOUT".

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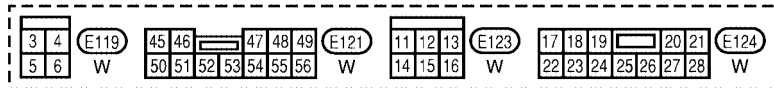
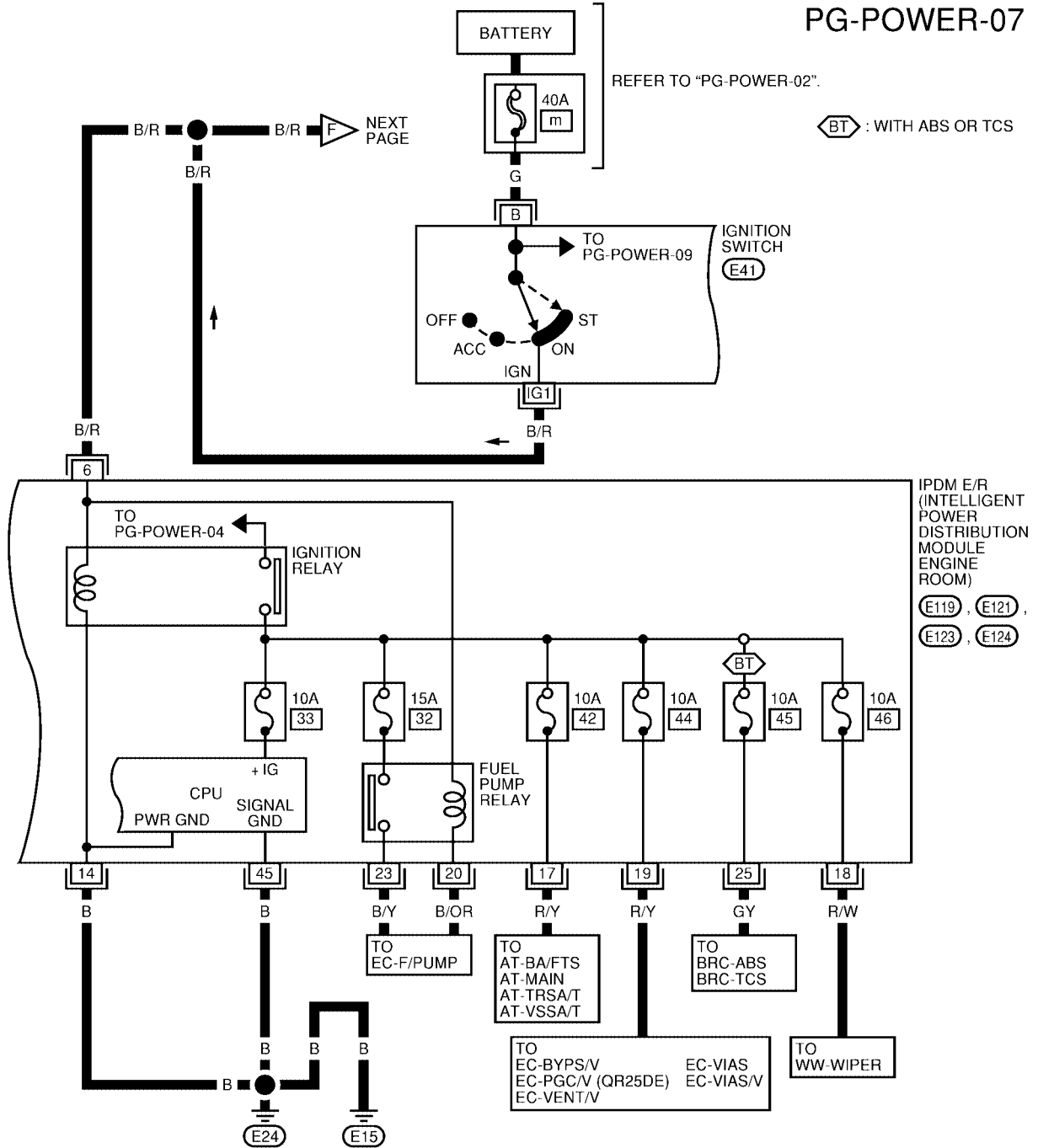


WKWA0089E

POWER SUPPLY ROUTING CIRCUIT

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

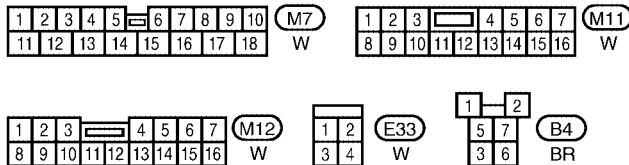
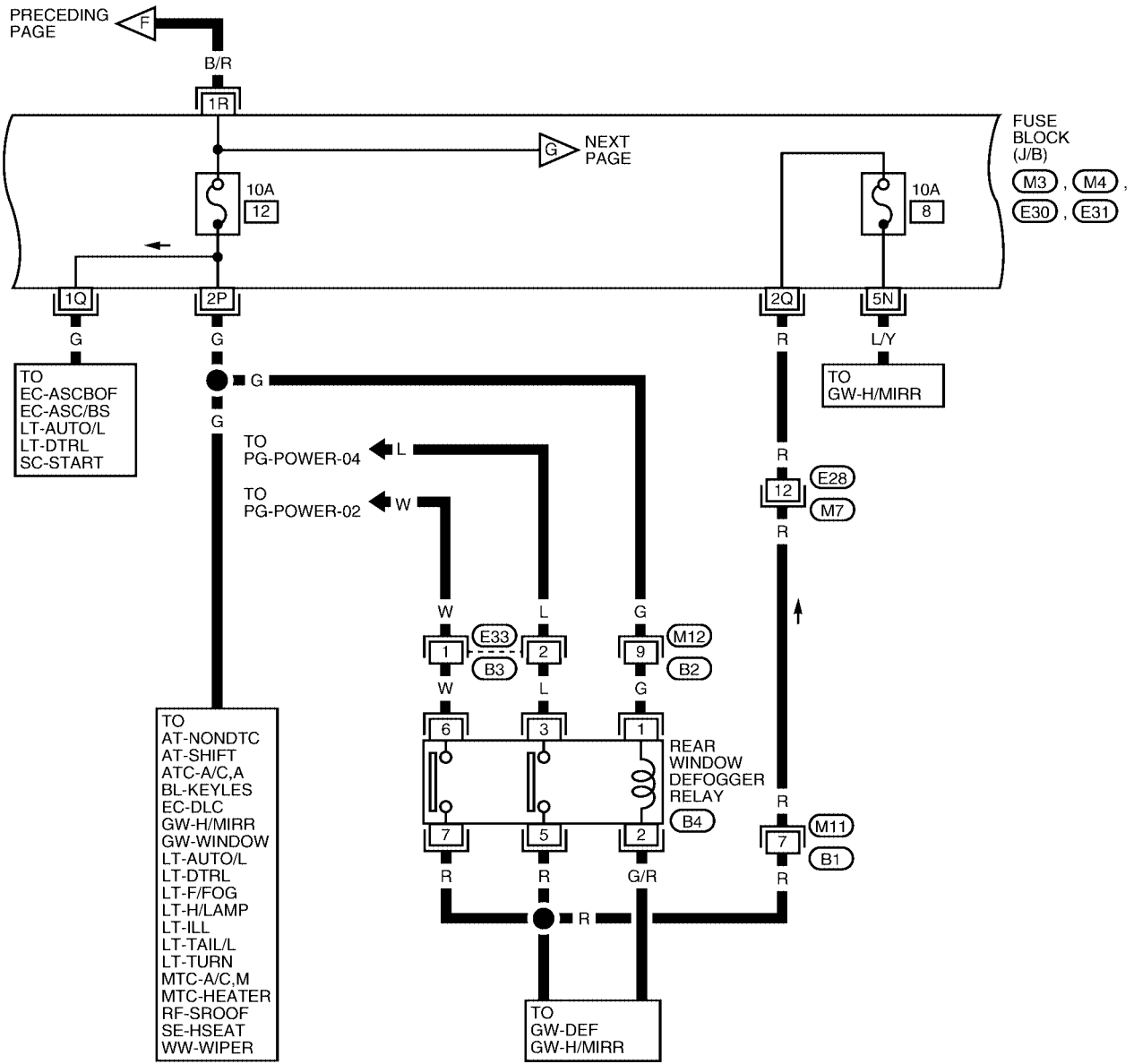
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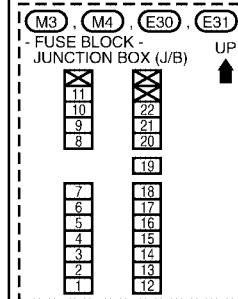
WKWA0267E

POWER SUPPLY ROUTING CIRCUIT

PG-POWER-08



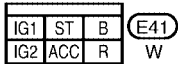
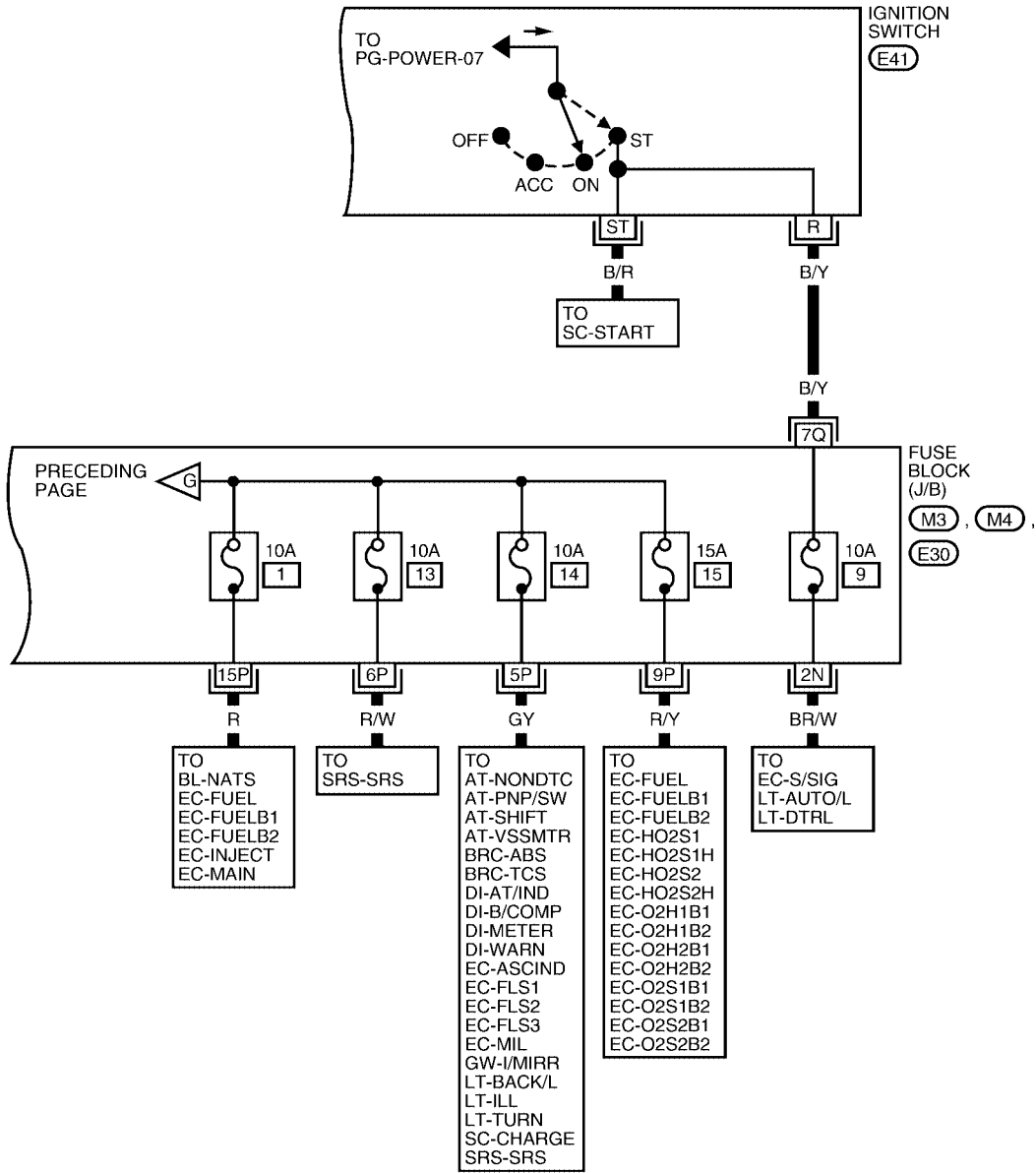
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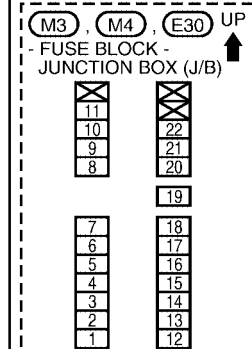
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POWER SUPPLY ROUTING CIRCUIT

PG-POWER-09



REFER TO THE FOLLOWING.



WKWA0269E

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

PF:284B7

System Description

EKS003J8

- IPDM E/R (Intelligent Power Distribution Module Engine Room) integrates the relay box and fuse block which were originally placed in engine compartment. It controls integrated relay via IPDM E/R control circuit.
- IPDM E/R-integrated control circuit performs ON-OFF operation of relay, CAN communication control, oil pressure switch signal reception, etc.
- It controls operation of each electrical part via BCM and CAN communication lines.

CAUTION:

All IPDM E/R-integrated relays cannot be removed.

SYSTEMS CONTROLLED BY IPDM E/R

1. Lamp control

Using CAN communication line, it receives signal from BCM and controls the following lamps:

- Headlamps (Hi, Lo)
- Parking lamps
- Tail lamps
- Front fog lamps

2. Wiper control

Using CAN communication line, it receives signals from BCM and controls the front wipers.

3. Rear window defogger relay control

Using CAN communication line, it receives signals from BCM and controls the rear window defogger relay.

4. A/C compressor control

Using CAN communication line, it receives signal from ECM and controls the A/C relay.

5. Cooling fan control

Using CAN communication line, it receives signal from ECM and controls cooling fan relay.

CAN COMMUNICATION LINE CONTROL

With CAN communication, by connecting each control unit using two communication lines (CAN L-line, CAN H-line), it is possible to transmit maximum amount of information with minimum wiring. Each control unit can transmit and receive data, and read necessary information only.

1. Fail-safe control

- When CAN communication with other control units is impossible, IPDM E/R performs fail-safe control. After CAN communication recovers normally, it also returns to normal control.
- Operation of control parts by IPDM E/R during fail-safe mode is as follows:

Controlled parts	Fail-safe mode
Headlamps	Headlamp relay (Lo) ON
Front fog lamps	Front fog lamp relay OFF
Tail and parking lamps	Tail lamp relay OFF
Front wipers	Until ignition switch is turned OFF, status immediately before fail-safe control is performed is maintained.
Rear window defogger	Rear window defogger relay OFF
Cooling fan	Cooling fan (HI) ON
A/C compressor	A/C relay OFF

IPDM E/R STATUS CONTROL

In order to save power, IPDM E/R switches status by itself based on each operating condition.

1. CAN communication status

- CAN communication is normally performed with other control units.
- Individual unit control by IPDM E/R is normally performed.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

- When sleep request signal is received from BCM, mode is switched to sleep waiting status.
2. Sleep waiting status
 - Process to stop CAN communication is activated.
 - All systems controlled by IPDM E/R are stopped. When 3 seconds have elapsed after CAN communication with other control units is stopped, mode switches to sleep status.
 3. Sleep status
 - IPDM E/R operates in low current-consumption mode.
 - CAN communication is stopped.
 - When a change in CAN communication line is detected, mode switches to CAN communication status.

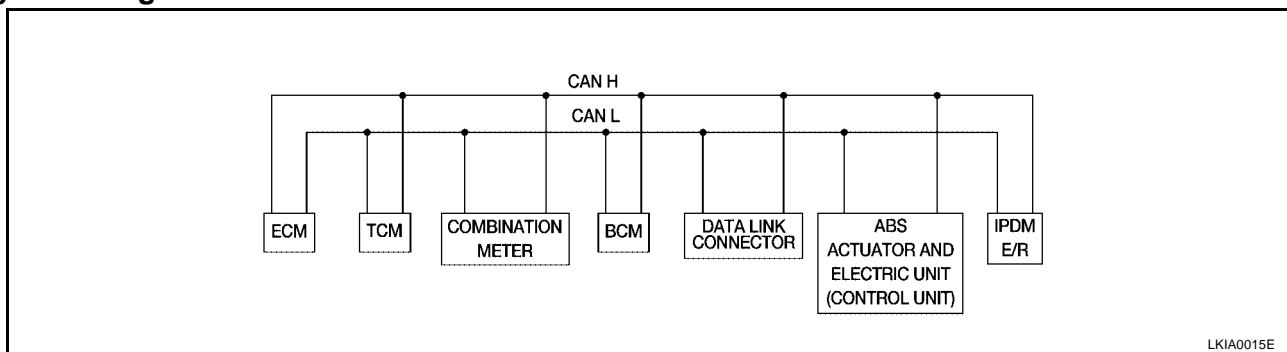
CAN Communication System Description

EKS003J9

CAN (Controller Area Network) is a serial communication line for real time application. It is an on-vehicle multiplex communication line with high data communication speed and excellent error detection ability. Many electronic control units are equipped onto a vehicle, and each control unit shares information and links with other control units during operation (not independent). In CAN communication, control units are connected with 2 communication lines (CAN H line, CAN L line) allowing a high rate of information transmission with less wiring. Each control unit transmits/receives data but selectively reads required data only.

FOR TCS MODELS

System diagram



Input/output signal chart

T: Transmit R: Receive

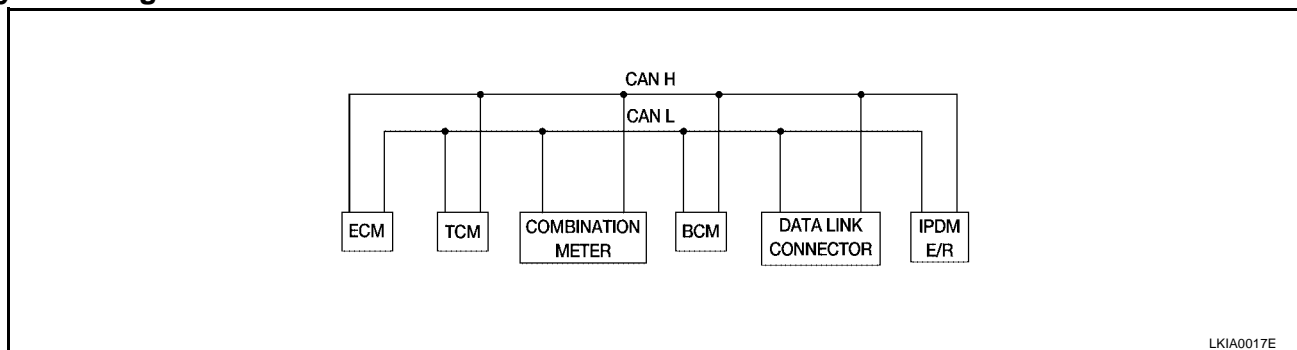
Signals	ECM	TCM	COMBINATION METER	BCM	ABS/TCS control unit	IPDM E/R
Engine speed signal	T		R		R	
Engine coolant temperature signal	T		R			
Accelerator pedal position signal	T					
Fuel consumption monitor signal	T		R			
A/T warning lamp signal		T	R			
A/T position indicator signal	R	T	R	R (R range only)	R	
ABS operation signal	R				T	
TCS operation signal	R	R			T	
Air conditioner switch signal	R			T		
Air conditioner compressor signal	R					T
A/C compressor request signal	T					R
Cooling fan motor operation signal	R					T
Cooling fan speed request signal	T					R
Position lights request			R	T		R
Position lights status				R		T
Low beam request				T		R

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Signals	ECM	TCM	COMBINATION METER	BCM	ABS/TCS control unit	IPDM E/R
Low beam status	R			R		T
High beam request			R	T		R
High beam status	R			R		T
Front fog lights request				T		R
Front fog light status				R		T
OD cancel switch signal		R	T			R
Brake switch signal		R	T			
Vehicle speed signal	R		T			
	R		T	R		
Oil pressure switch			R			T
Sleep request1			R	T		
Sleep request2				T		R
N range switch signal		R	T			
P range switch signal		R	T			
Seat belt buckle switch signal			T	R		
Door switch signal			R	T		R
Tail lamp request			R	T		R
Turn indicator signal			R	T		
Buzzer output signal			R	T		
Trunk switch signal			R	T		
ASCD main switch signal	T		R			
ASCD cruise signal	T		R			
Wiper operation				R		T
Wiper stop position signal				R		T
Rear window defogger switch signal				T		R
Rear window defogger control signal	R			R		T

FOR A/T MODELS

System diagram



LKIA0017E

Input/output signal chart

T: Transmit R: Receive

Signals	ECM	TCM	COMBINATION METER	BCM	IPDM E/R
Engine speed signal	T		R		
Engine coolant temperature signal	T		R		

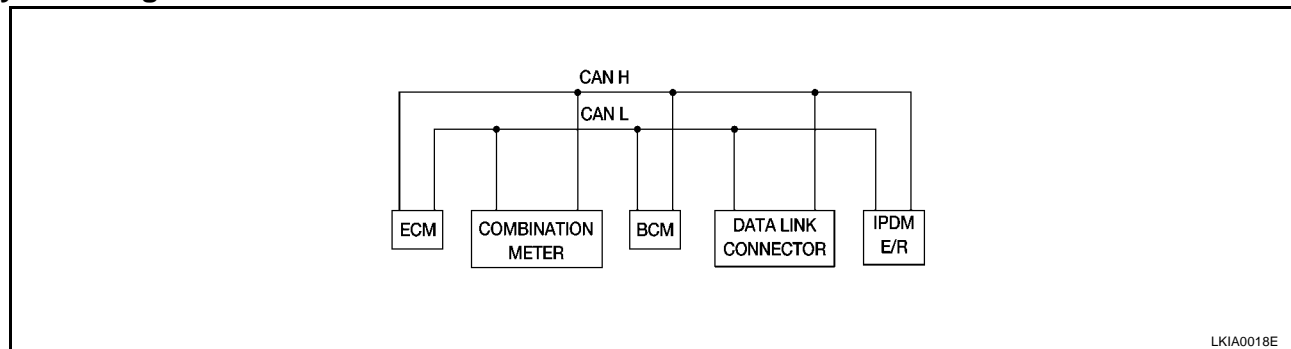
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Signals	ECM	TCM	COMBINATION METER	BCM	IPDM E/R	
Accelerator pedal position signal	T				R	A
Fuel consumption monitor signal	T		R			B
A/T warning lamp signal		T	R			B
A/T position indicator signal	R	T	R	R ^(R range only)		C
Air conditioner switch signal	R			T		C
Air conditioner compressor signal	R				T	
A/C compressor request signal	T				R	D
Blower fan switch signal	R ^(QR25DE)			T		D
Cooling fan motor operation signal	R			T		
Cooling fan speed request signal	T				R	E
Position lights request			R	T	R	
Position lights status				R	T	F
Low beam request				T	R	F
Low beam status	R			R	T	
High beam request			R	T	R	G
High beam status	R			R	T	G
Front fog lights request				T	R	
Front fog light status				R	T	H
OD cancel switch signal		R	T		R	
Brake switch signal		R	T			I
Vehicle speed signal	R		T			
	R		T	R		J
Oil pressure switch			R		T	J
Sleep request1			R	T		
Sleep request2				T	R	PG
N range switch signal		R	T			
P range switch signal		R	T			
Seat belt buckle switch signal			T	R		L
Door switch signal			R	T	R	
Tail lamp request			R	T	R	M
Turn indicator signal			R	T		
Buzzer output signal			R	T		
Trunk switch signal			R	T		
ASCD main switch signal	T		R			
ASCD cruise signal	T		R			
Wiper operation				R	T	
Wiper stop position signal				R	T	
Rear window defogger switch signal				T	R	
Rear window defogger control signal	R			R	T	

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

FOR M/T MODELS

System diagram



LKIA0018E

Input/output signal chart

T: Transmit R: Receive

Signals	ECM	COMBINATION METER	BCM	IPDM E/R
Engine speed signal	T			
Engine coolant temperature signal	T			
Fuel consumption monitor signal	T			
Air conditioner switch signal	R		T	
Air conditioner compressor signal	R			T
A/C compressor request signal	T			R
Blower fan switch signal	R(QR25DE)		T	
Cooling fan motor operation signal	R			T
Cooling fan speed request signal	T			R
Position lights request		R	T	R
Position lights status			R	T
Low beam request			T	R
Low beam status	R		R	T
High beam request		R	T	R
High beam status	R		R	T
Front fog lights request			T	R
Front fog light status			R	T
Vehicle speed signal	R	T		
Oil pressure switch		R		T
Sleep request1		R	T	
Sleep request2			T	R
Seat belt buckle switch signal		T	R	
Door switch signal		R	T	R
Tail lamp request		R	T	R
Turn indicator signal		R	T	
Buzzer output signal		R	T	
Trunk switch signal		R	T	
ASCD main switch signal	T	R		
ASCD cruise signal	T	R		
Wiper operation			R	T
Wiper stop position signal			R	T

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Signals	ECM	COMBINATION METER	BCM	IPDM E/R
Rear window defogger switch signal			T	R
Rear window defogger control signal	R		R	T

Function of Detecting Ignition Relay Malfunction

EKS003JA

- When contact point of integrated ignition relay is stuck and cannot be turned OFF, IPDM E/R turns ON tail and parking lamps for 10 minutes to indicate IPDM E/R malfunction.

Auto Active Test DESCRIPTION

EKS003JB

- In auto active test mode, operation inspection can be performed when IPDM E/R sends a drive signal to the following systems:
 - Rear window defogger
 - Front wipers
 - Tail and parking lamps
 - Front fog lamps
 - Headlamps (Hi, Lo)
 - A/C compressor (magnet clutch)
 - Cooling fan

OPERATION PROCEDURE

- Close hood and lift wiper arms away from windshield (to prevent glass damage by wiper operation).
 - NOTE:**
When auto active test is performed with hood opened, sprinkle water on windshield beforehand.
- Turn ignition switch OFF.
- Within 20 seconds, turn the ignition switch ON and press the front door switch LH ten times, then turn the ignition switch OFF.
 - CAUTION:**
Close front door RH.
- Turn ignition switch ON.
- When auto active test mode is actuated, horn chirps once, and oil pressure warning lamp starts blinking.
- After a series of operations is repeated three times, auto active test is completed.

NOTE:

When auto active test mode has to be cancelled halfway, turn ignition switch OFF.

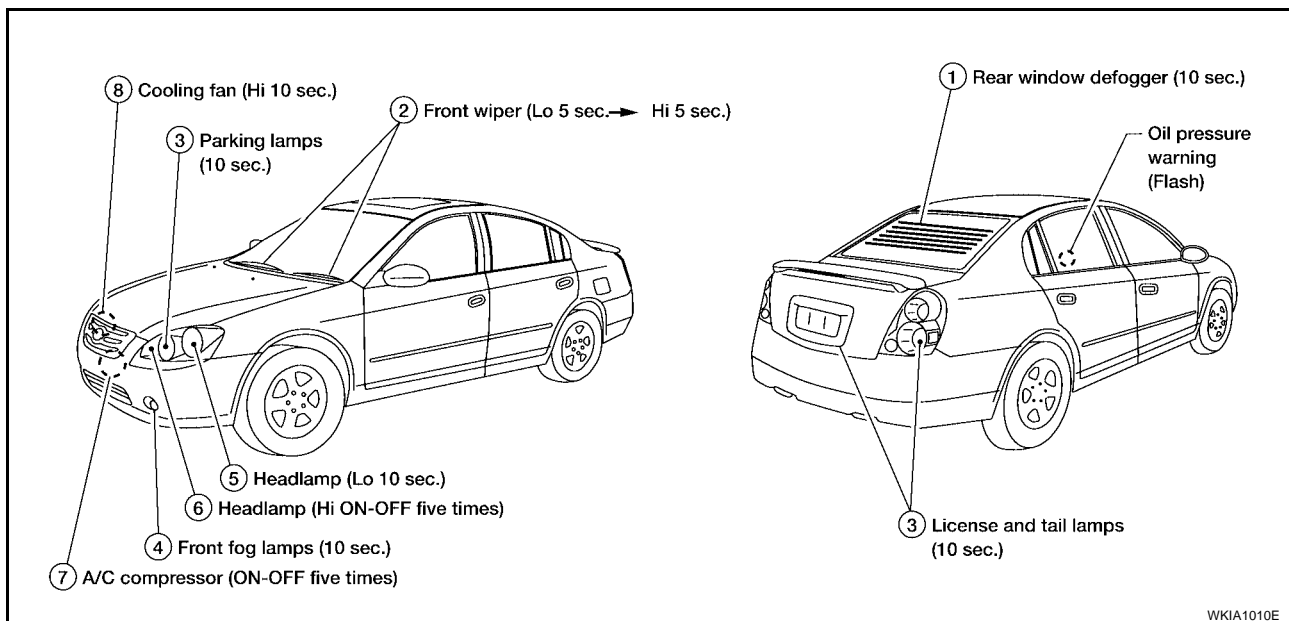
CAUTION:

Be sure to inspect [DI-37, "Oil Pressure Warning Lamp Stays Off \(Ignition Switch ON\)"](#) and [BL-28, "Door Switch Check"](#) when the auto active test cannot be performed.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

INSPECTION IN AUTO ACTIVE TEST MODE

- When auto active test mode is actuated, the following seven steps are repeated three times.



Concept of Auto Active Test

- IPDM E/R actuates auto active test mode when it receives door switch signal from BCM via CAN communication line. Therefore, when auto active test mode is activated successfully, CAN communication between IPDM E/R and BCM is normal.
- If any of systems controlled by IPDM E/R cannot be operated, possible cause can be easily diagnosed using auto active test.

Diagnosis chart in auto active test mode

Symptom	Inspection contents	Possible cause
Any of front wipers, tail and parking lamps, front fog lamps, and headlamps (Hi, Lo) do not operate.	Perform auto active test. Does system in question operate?	OK <ul style="list-style-type: none"> ● BCM signal input system
		NG <ul style="list-style-type: none"> ● Lamp/motor malfunction ● Lamp/motor ground system malfunction ● Harness/connector malfunction between IPDM E/R and system in question ● IPDM E/R (integrated relay) malfunction
Rear window defogger does not operate.	Perform auto active test. Does rear window defogger operate?	OK <ul style="list-style-type: none"> ● BCM signal input system
		NG <ul style="list-style-type: none"> ● Rear window defogger relay system ● Open circuit of rear window defogger ● IPDM E/R malfunction
A/C compressor does not operate.	Perform auto active test. Does magnet clutch operate?	OK <ul style="list-style-type: none"> ● BCM signal input system ● CAN communication signal between BCM and ECM. ● CAN communication signal between ECM and IPDM E/R ● BCM ● ECM
		NG <ul style="list-style-type: none"> ● Magnet clutch malfunction ● Harness/connector malfunction between IPDM E/R and magnet clutch ● IPDM E/R (integrated relay) malfunction
Cooling fan does not operate.	Perform auto active test. Does cooling fan operate?	OK <ul style="list-style-type: none"> ● ECM signal input system ● CAN communication signal between ECM and IPDM E/R ● ECM
		NG <ul style="list-style-type: none"> ● Cooling fan motor malfunction ● Harness/connector malfunction between IPDM E/R and cooling fan motor ● IPDM E/R (integrated relay) malfunction

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Symptom	Inspection contents	Possible cause
Oil pressure warning lamp does not operate.	Perform auto active test. Does oil pressure warning lamp blink?	OK <ul style="list-style-type: none"> ● Harness/connector malfunction between IPDM E/R and oil pressure switch ● Oil pressure switch malfunction
		NG <ul style="list-style-type: none"> ● CAN communication signal between IPDM E/R and combination meter ● Combination meter

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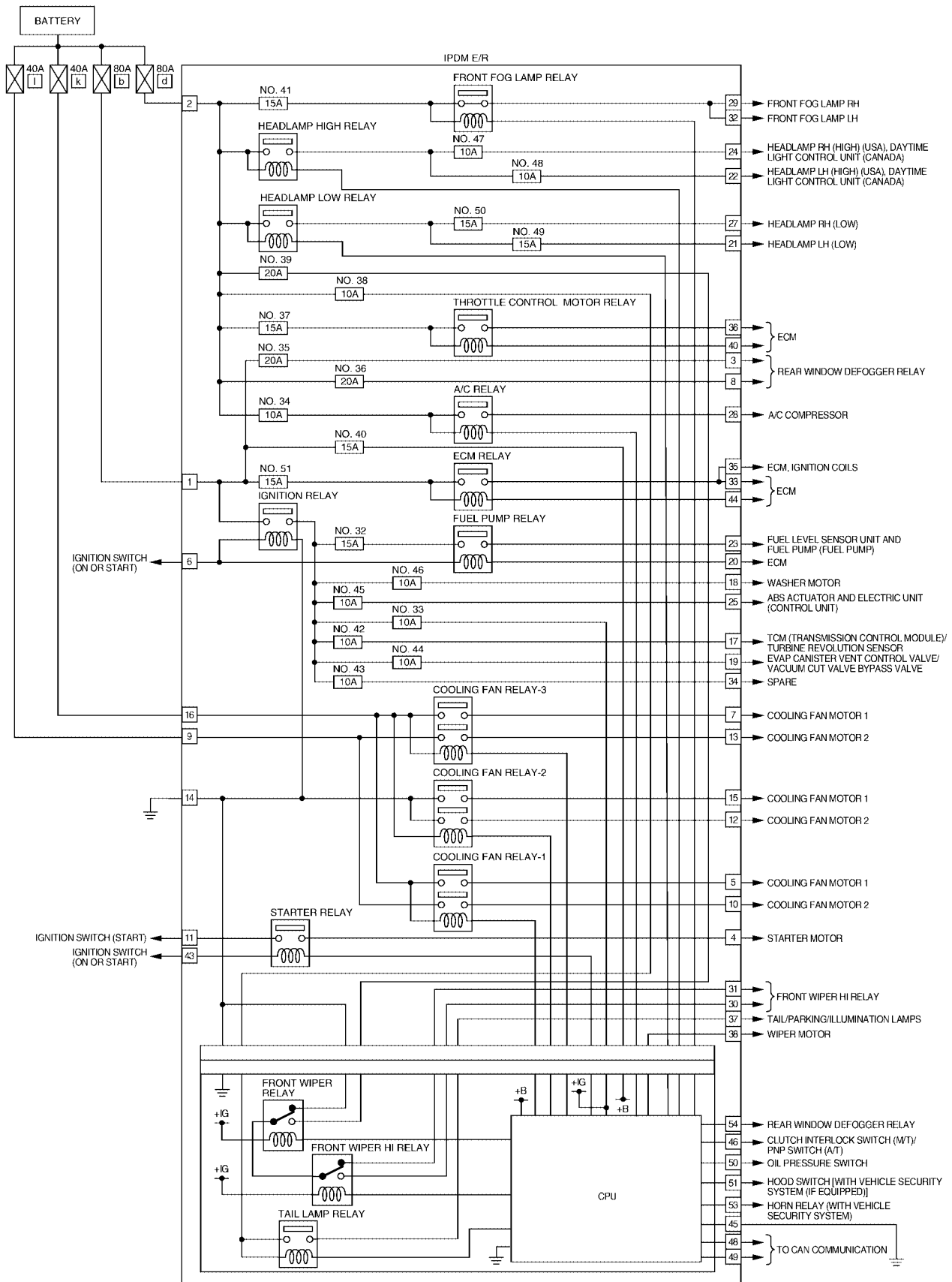
L

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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

Schematic

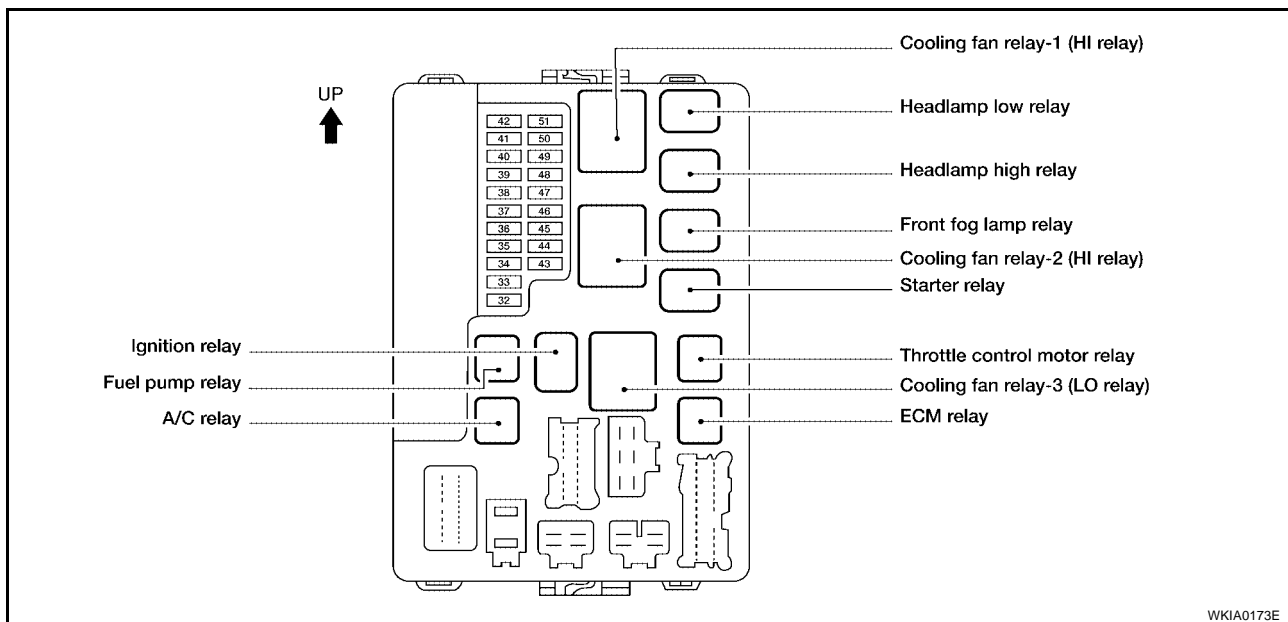
EKS003JC



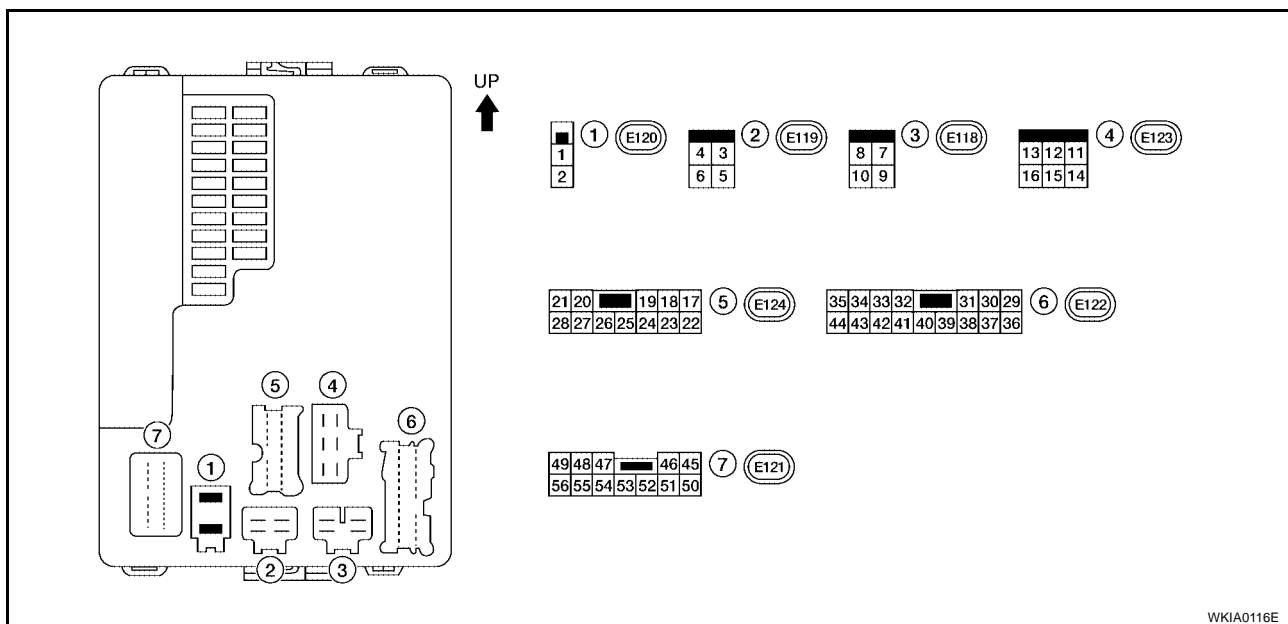
WKWA0514E

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

IPDM E/R FUSE AND RELAY ARRANGEMENT



IPDM E/R TERMINAL ARRANGEMENT



IPDM E/R Power/Ground Circuit Inspection

EKS003JD

1. FUSE AND FUSIBLE LINK INSPECTION

- Check that the following fusible links or IPDM E/R fuses are not blown.

Terminal No.	Signal name	Fuse, fusible link No.
1, 2	Battery power	F/L-b, F/L-d, Fuse No. 40
-	Ignition power	Fuse No. 33

OK or NG?

- OK >> GO TO 2.
- NG >> Replace fuse or fusible link.

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

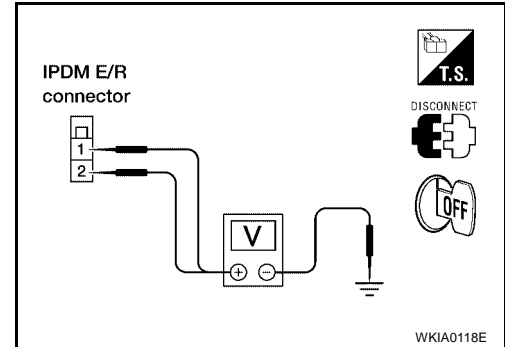
2. POWER CIRCUIT INSPECTION

Disconnect IPDM E/R harness connector E120. Measure voltage between IPDM E/R harness connector E120 terminals 1 (R), 2 (B/Y) and body ground.

Terminal No.	Signal name	Ignition switch	Voltage (V)
1, 2	Battery power	OFF	Approx. 12

OK or NG?

- OK >> GO TO 3.
- NG >> Replace IPDM E/R power circuit harness.



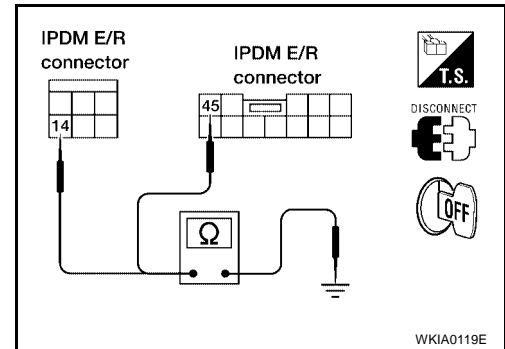
3. GROUND CIRCUIT INSPECTION

Disconnect IPDM E/R harness connectors E121 and E123. Check continuity between IPDM E/R harness connectors E123 terminal 14 (B), E121 terminal 45 (B) and body ground.

Terminal No.	Signal name	Ignition switch	Continuity
14, 45	Ground	OFF	YES

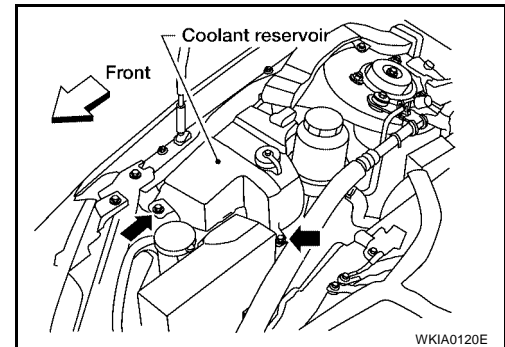
OK or NG?

- OK >> Normal.
- NG >> Replace ground circuit harness of IPDM E/R.

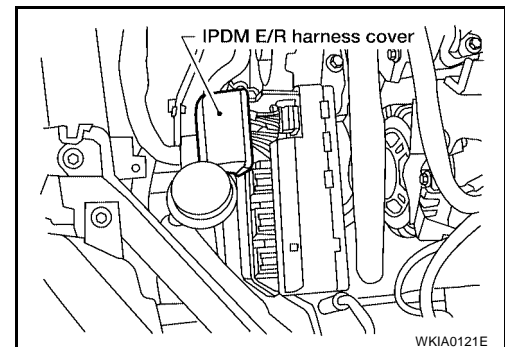


Removal and Installation of IPDM E/R

1. Disconnect the negative battery cable.
2. Remove 2 bolts and position coolant reservoir aside.
3. Remove IPDM E/R upper cover.



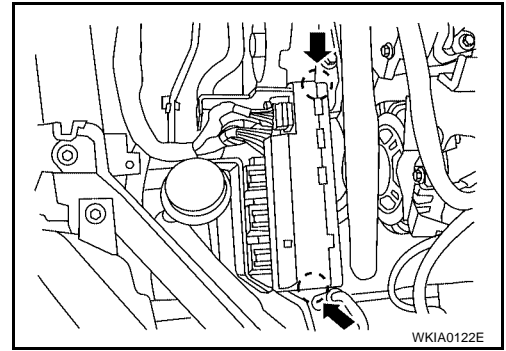
4. Remove IPDM E/R harness cover.



EKS003JE

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

5. Release 2 clips and pull IPDM E/R up from case.
6. Disconnect IPDM E/R connectors and then remove the IPDM E/R. .



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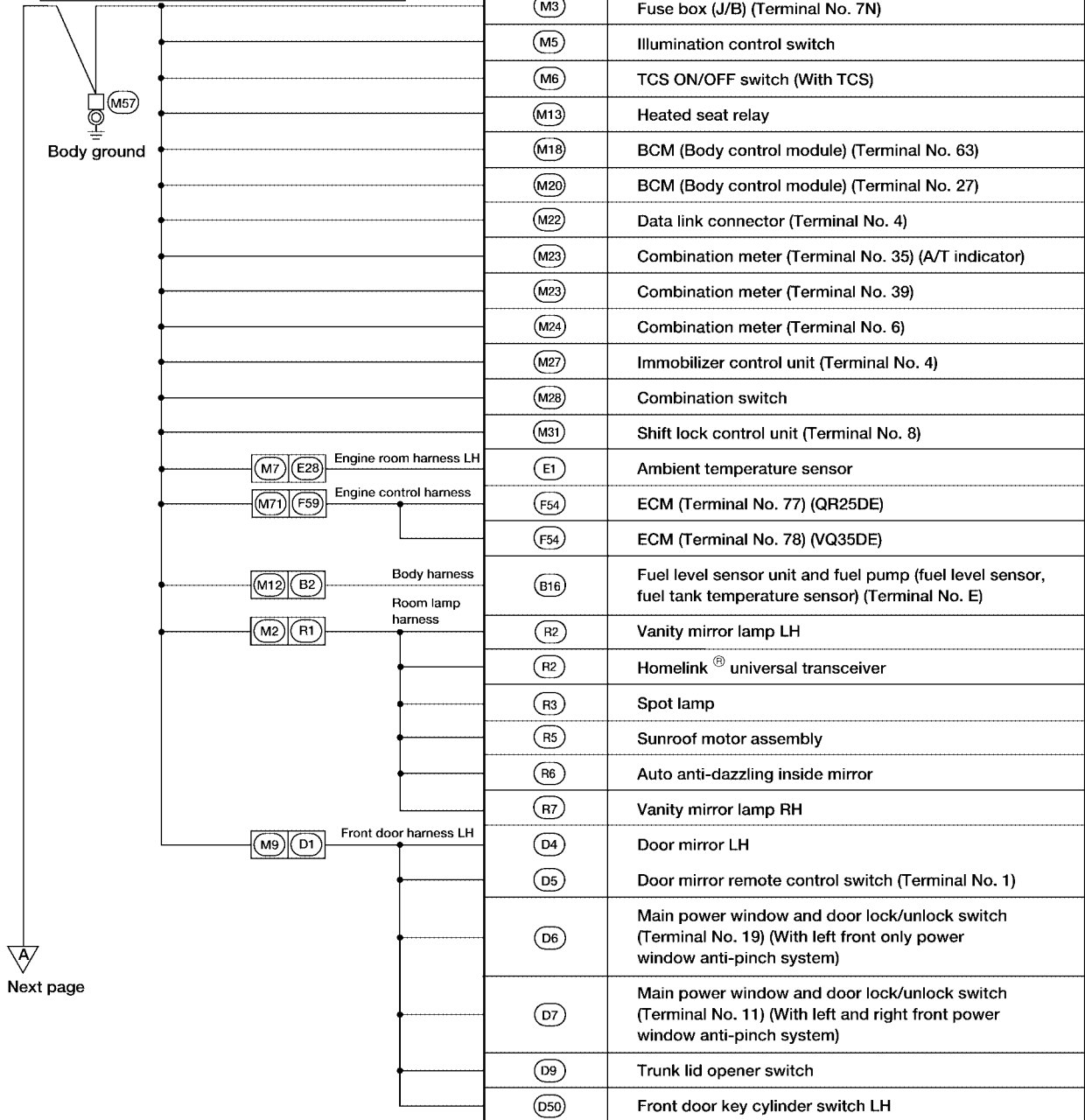
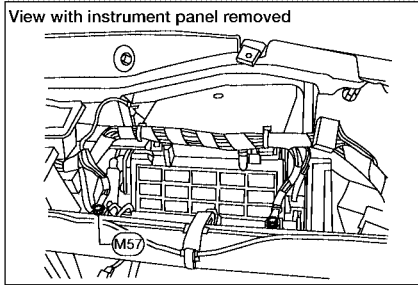
M

GROUND CIRCUIT

PFP:24080

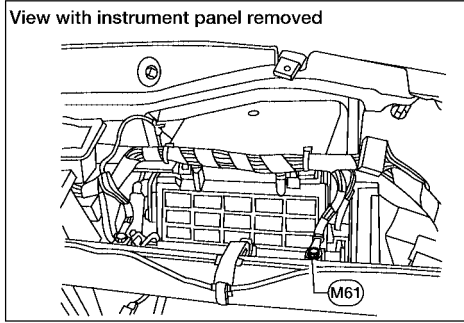
EKS003JF

GROUND CIRCUIT Ground Distribution MAIN HARNESS

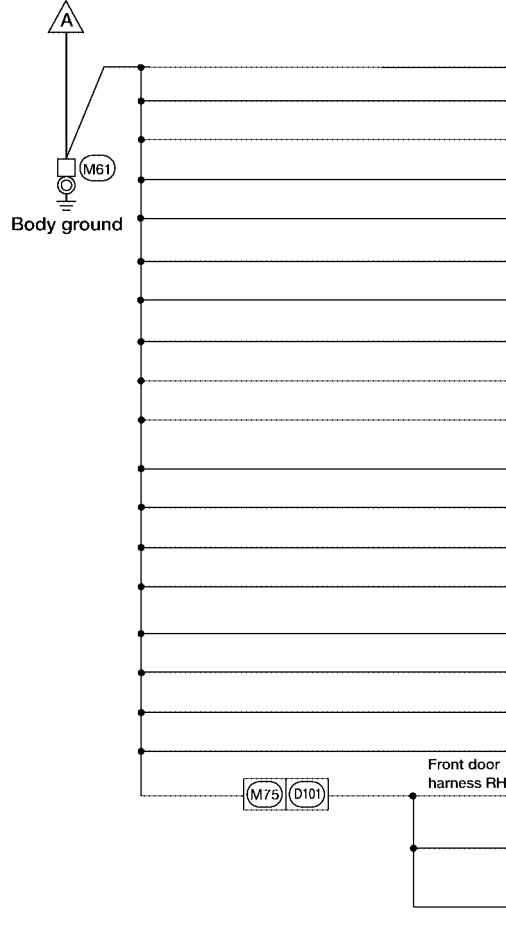


WKIA0222E

GROUND CIRCUIT



Preceding page



CONNECTOR NUMBER	CONNECT TO
M34	A/T device (Terminal No. 2) (Overdrive control switch)
M35	Air bag diagnosis sensor unit (Terminal No. 2)
M37	Heated seat switch LH
M38	Power socket
M39	Air mix door motor (With automatic A/C)
M40	Mode door motor
M41	Fan switch
M42	Rear window defogger switch
M49	A/C auto amp. (With auto A/C) (Terminal No. 8)
M50	A/C auto amp. (With auto A/C) (Terminal No. 32)
M51	A/C control unit (With manual A/C or heater only)
M53	Intake sensor
M55	Hazard switch
M56	Cigarette lighter socket
M58	Intake door motor
M59	Glove box lamp
M64	Fan control amp. (With auto A/C)
M76	Heated seat switch RH
D104	Door mirror RH
D105	Front power window switch RH (Terminal No. 19) (With left front only power window anti-pinch system)
D106	Front power window switch RH (Terminal No. 7) (With left and right front power window anti-pinch system)

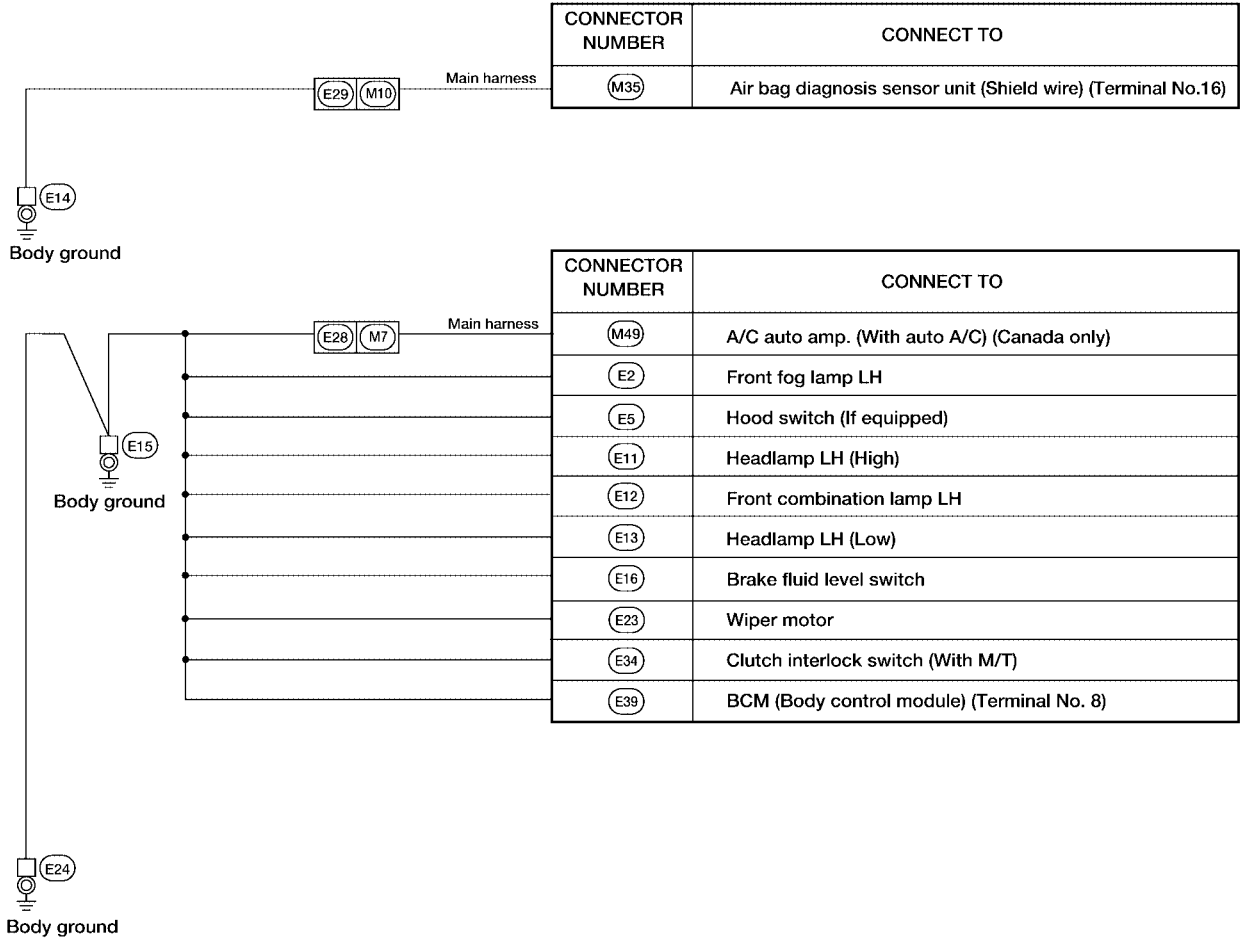
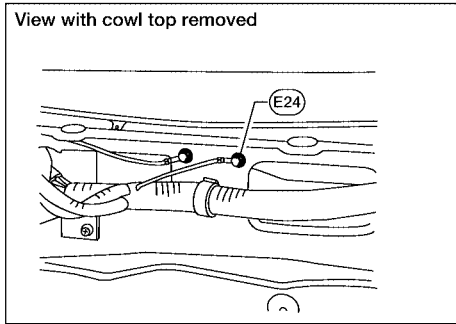
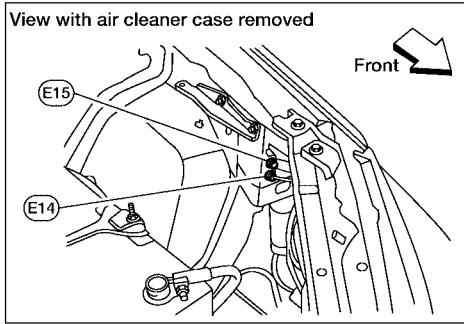
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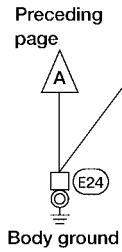
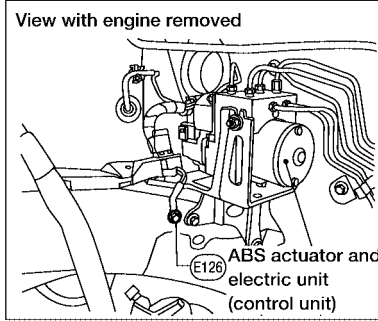
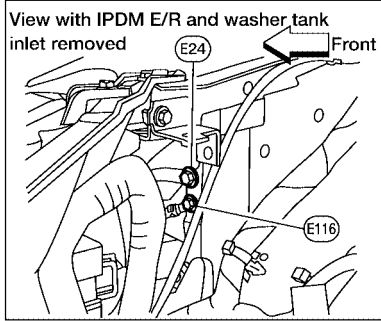
WKIA0221E

GROUND CIRCUIT

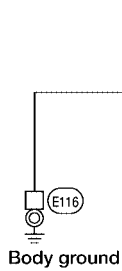
ENGINE ROOM HARNESS



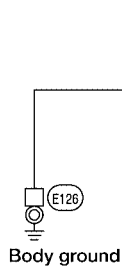
GROUND CIRCUIT



CONNECTOR NUMBER	CONNECT TO
E101	Front fog lamp RH
E103	Daytime light control unit (Canada only) (Terminal No. 13)
E103	Daytime light control unit (Canada only) (Terminal No. 14)
E104	Daytime light control unit (Canada only) (Terminal No. 16)
E106	Washer level switch
E107	Headlamp RH (Low)
E109	Front combination lamp RH
E110	Headlamp RH (High)
E113	Cooling fan motor 1
E114	Cooling fan motor 2
E121	IPDM E/R (Terminal No. 45)
E123	IPDM E/R [Cooling fan relay-2 (low-relay)] (Terminal No. 14)



CONNECTOR NUMBER	CONNECT TO
E112	Generator

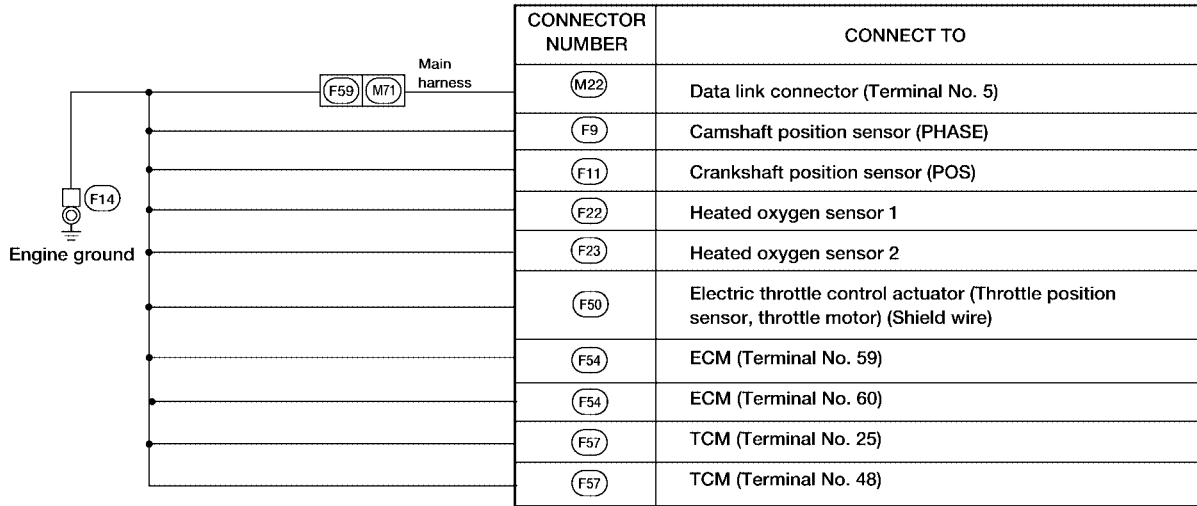
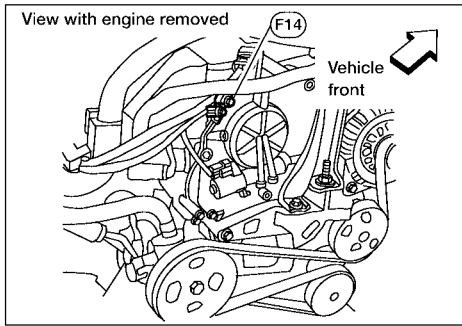


CONNECTOR NUMBER	CONNECT TO
E125	ABS actuator and electric unit (Control unit) (Terminal No. 16)
E125	ABS actuator and electric unit (Control unit) (Terminal No. 19)

WKIA0223E

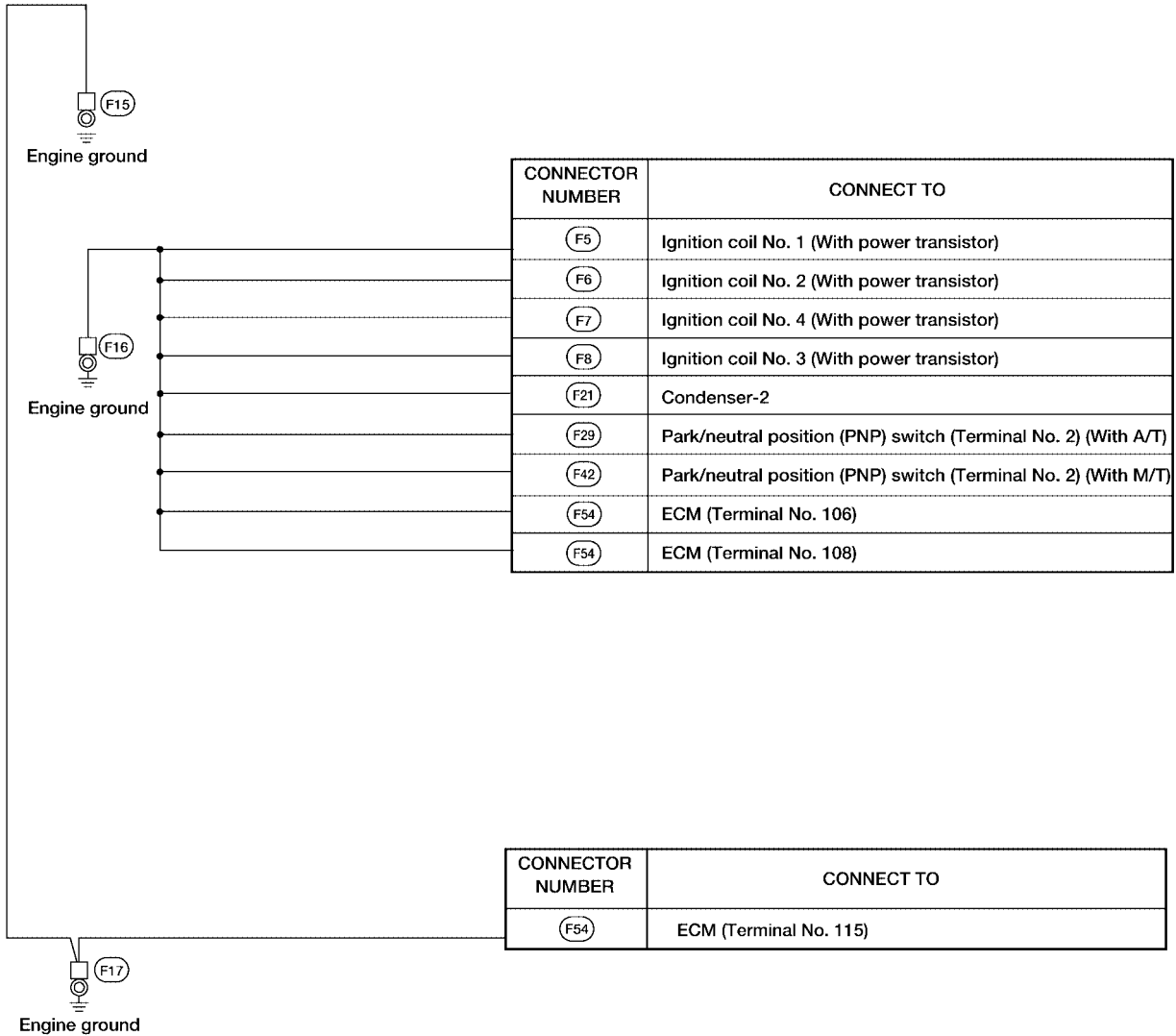
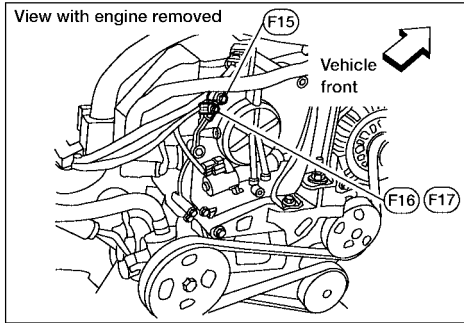
GROUND CIRCUIT

ENGINE CONTROL HARNESS (QR25DE)



WKIA0224E

GROUND CIRCUIT

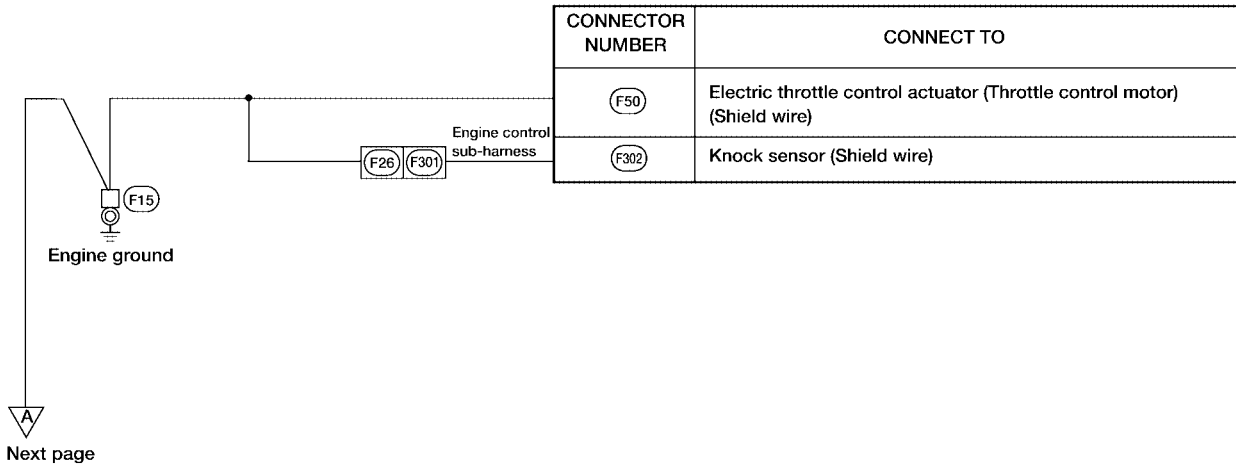
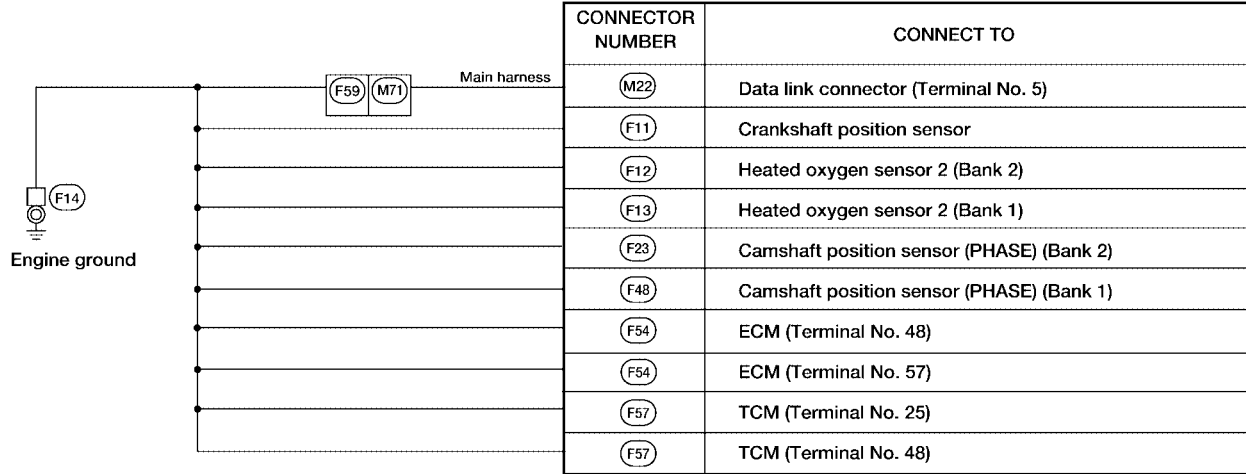
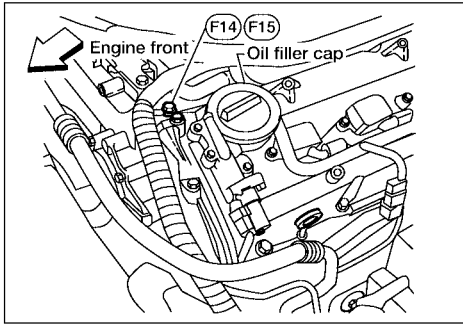


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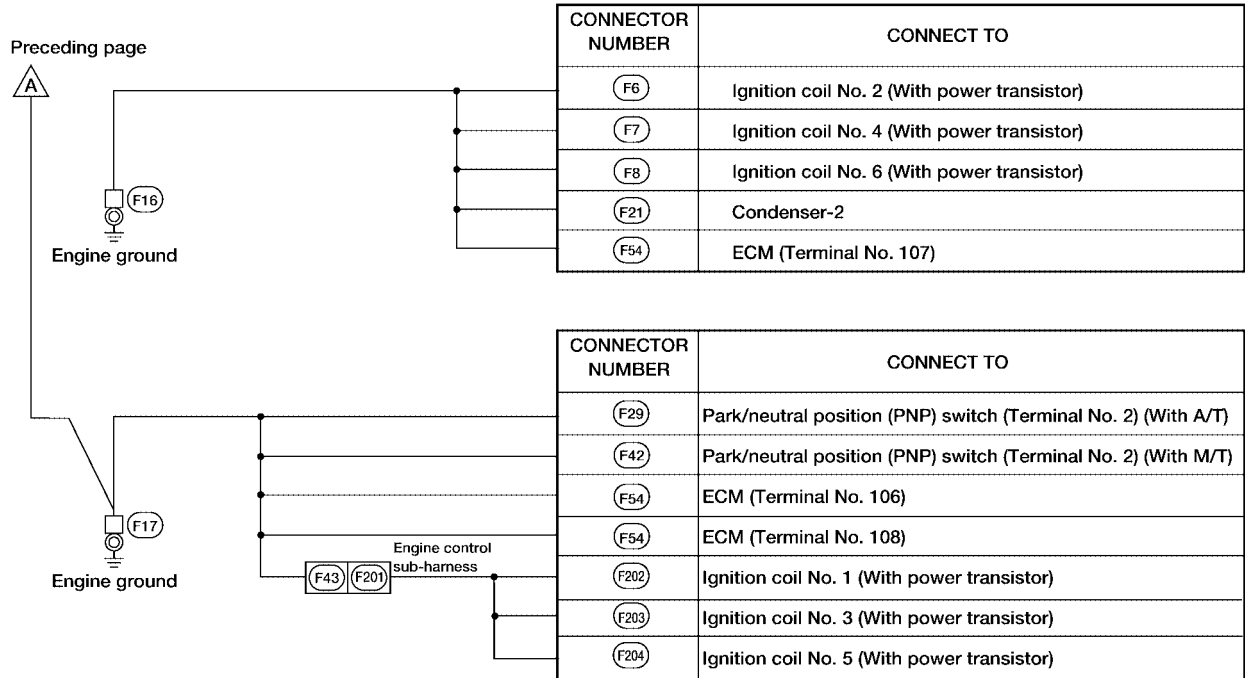
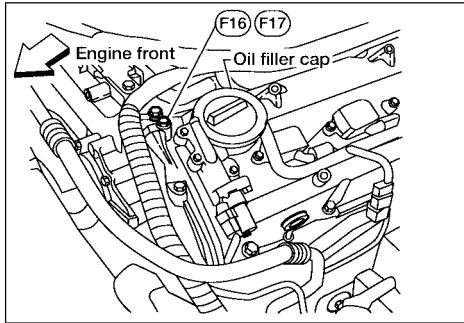
WKIA0085E

GROUND CIRCUIT

ENGINE CONTROL HARNESS (VQ35DE)



GROUND CIRCUIT

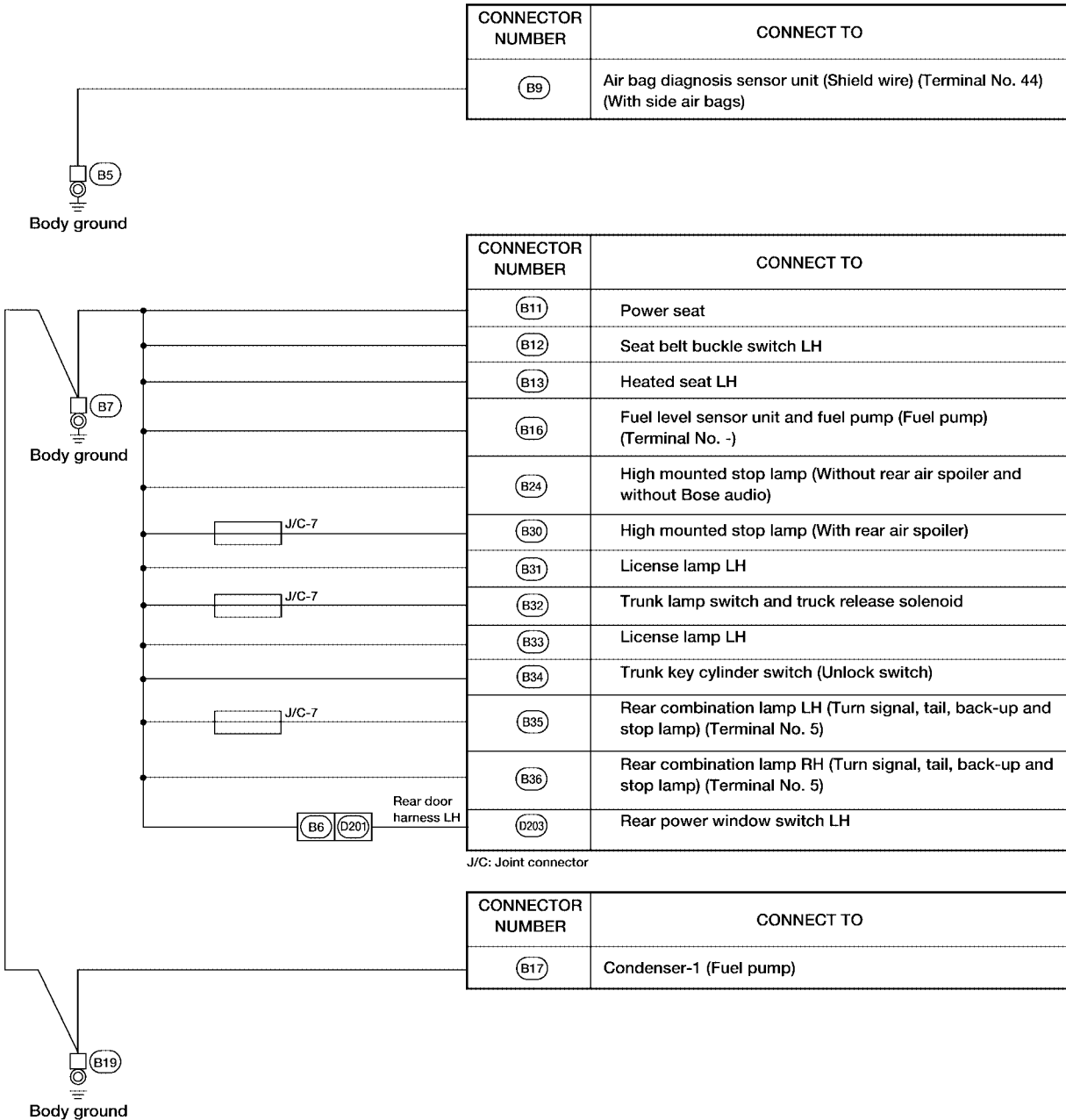
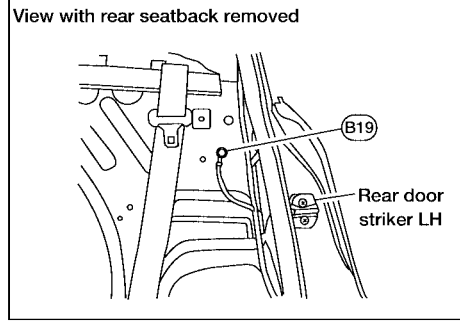
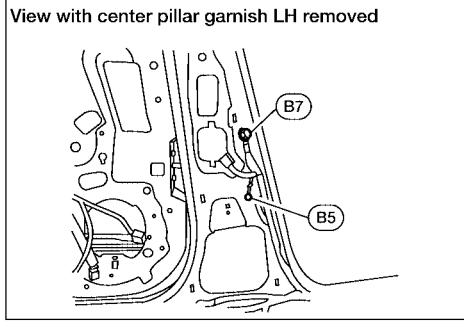


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WKIA0226E

GROUND CIRCUIT

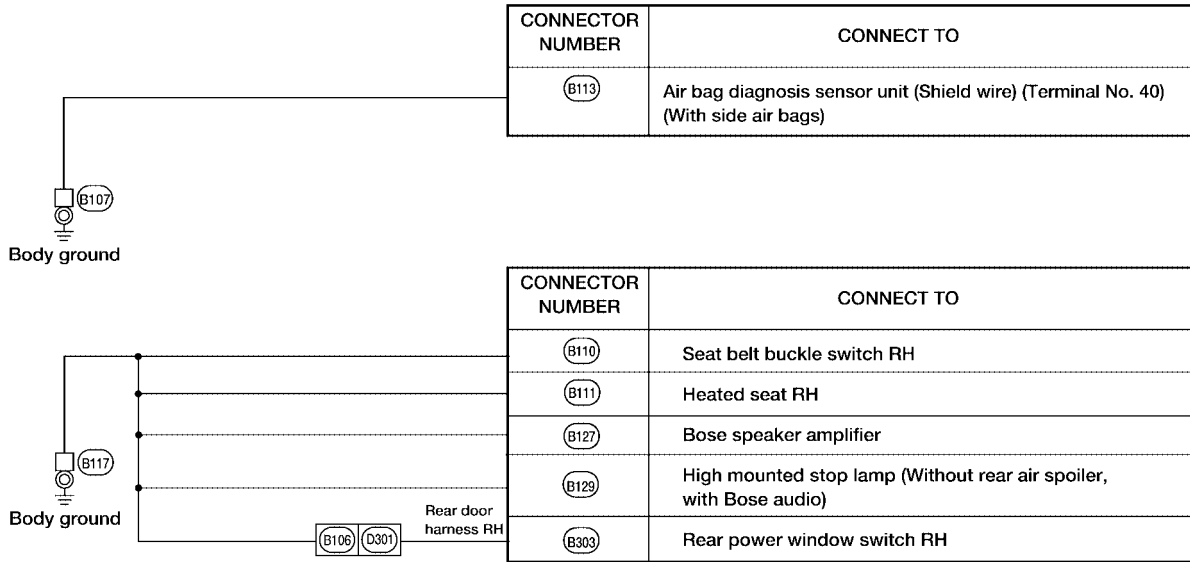
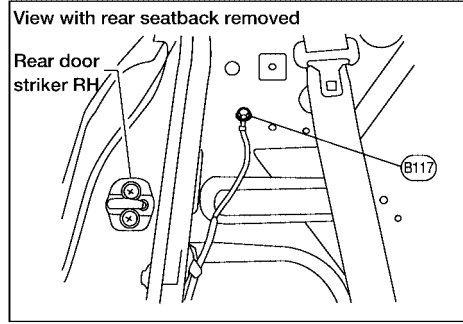
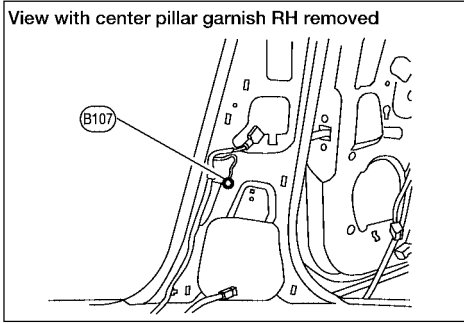
BODY HARNESS



WKIA0227E

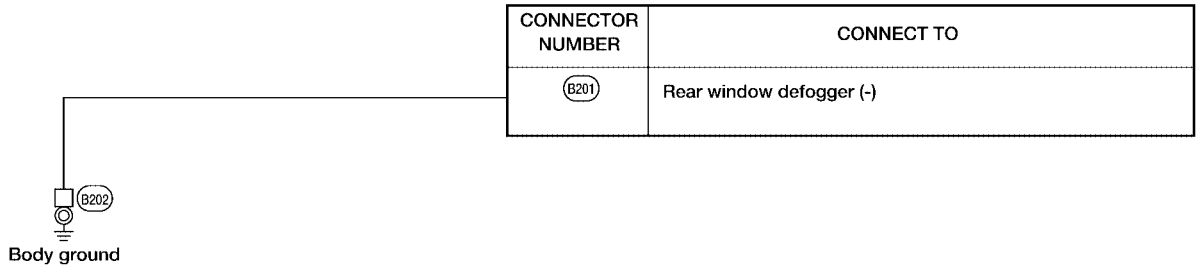
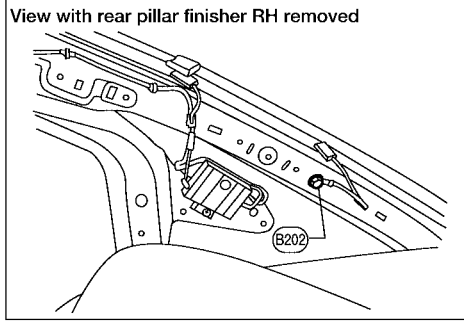
GROUND CIRCUIT

BODY NO. 2 HARNESS



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GROUND CIRCUIT



CONNECTOR NUMBER	CONNECT TO
B201	Rear window defogger (-)

WKIA0090E

HARNESS

PFP:24010

EKS003JG

HARNESS

Harness Layout

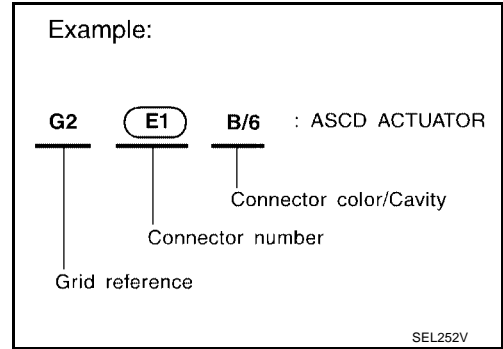
HOW TO READ HARNESS LAYOUT

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

- Main Harness
- Engine Room Harness LH (Engine Compartment)
- Engine Room Harness RH (Engine Compartment)
- Engine Control Harness (QR25DE)
- Engine Control Harness (VQ35DE)
- Body Harness
- Body No. 2 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.



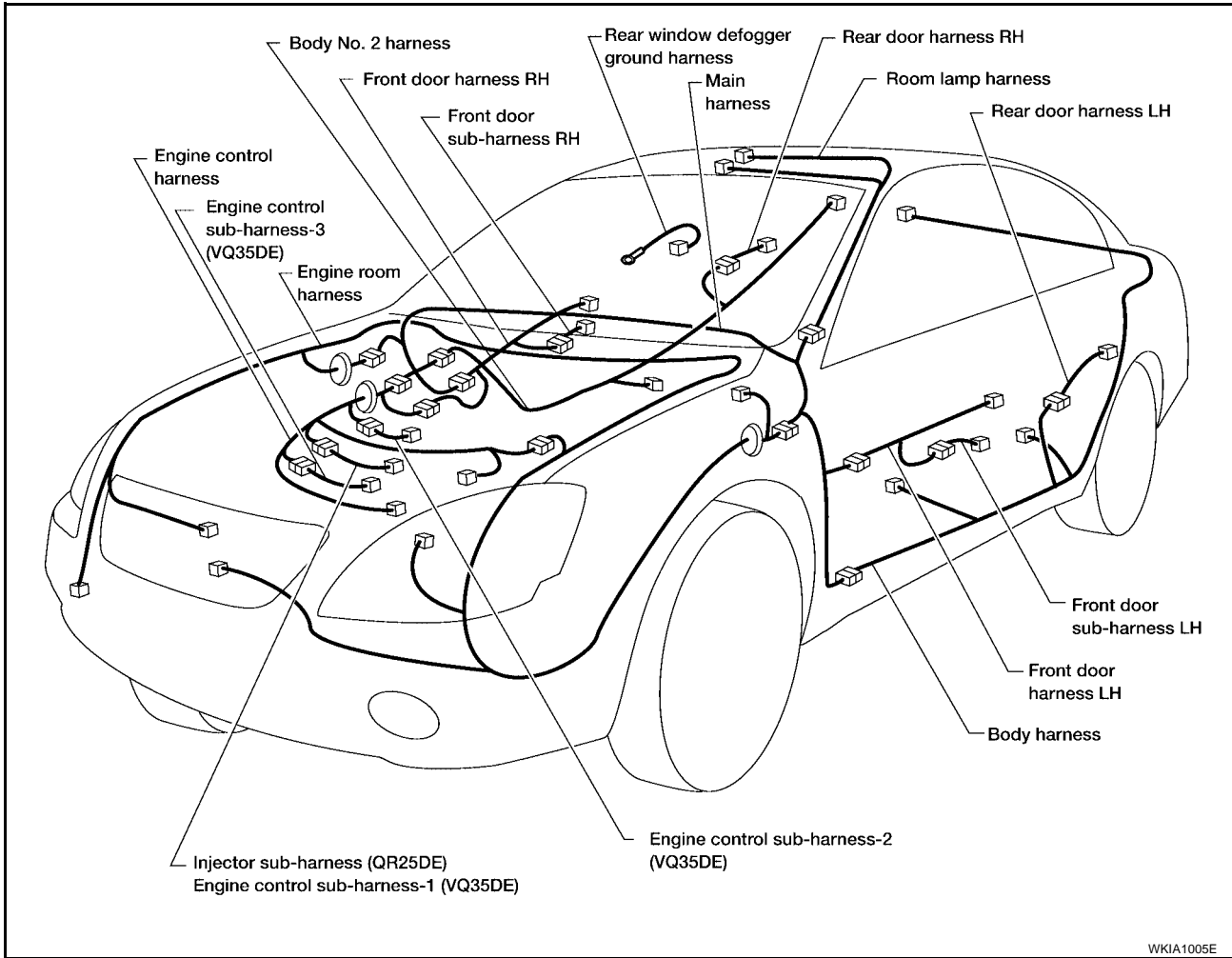
CONNECTOR SYMBOL

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

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

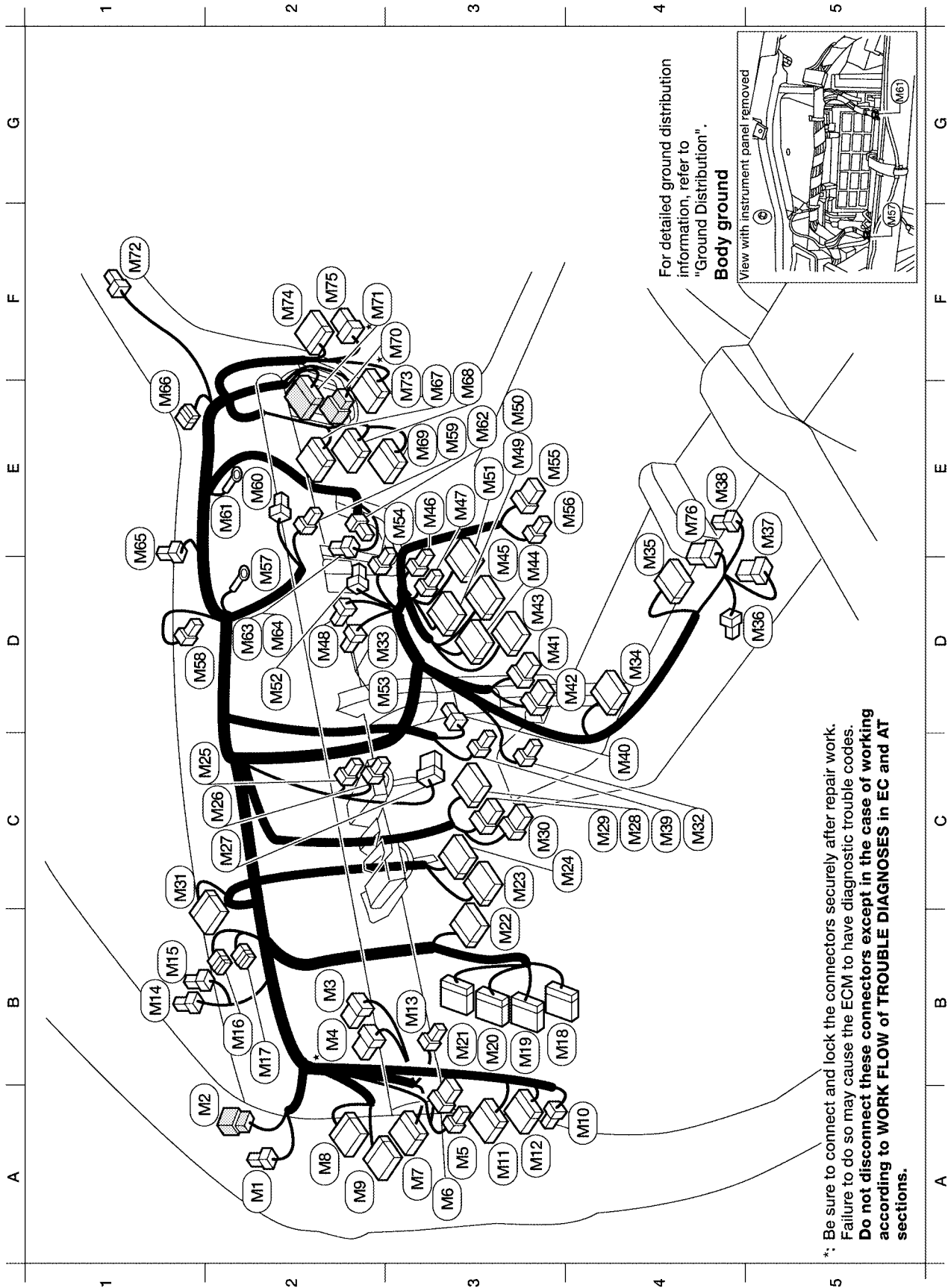
HARNESS

OUTLINE



HARNESS

MAIN HARNESS



WKIA0097E

HARNESSES

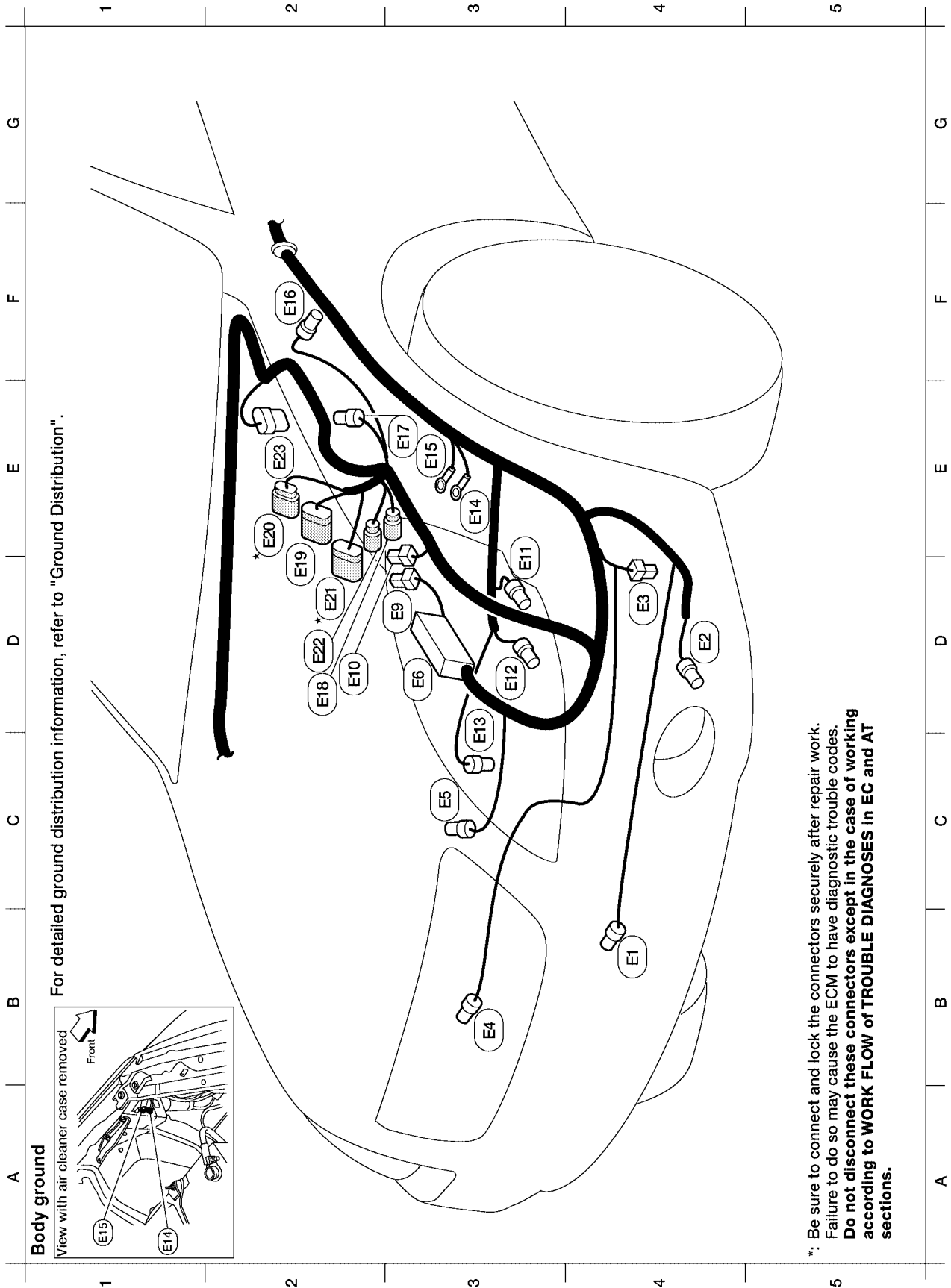
A2	(M1) BR/2	: Tweeter LH	C4	(M32) W/2	: In-vehicle sensor (with auto A/C)	E2	(M61) -	: Body ground
A2	(M2) W/6	: To R1 (without vanity mirror lamps)	D3	(M33) W/2	: Intake sensor (with auto A/C)	E3	(M62) W/2	: Blower motor
A2	(M2) W/8	: To R1 (with vanity mirror lamps)	D4	(M34) W/12	: A/T device	D2	(M63) BR/4	: Blower motor resistor (with manual A/C)
B2	(M3) W/8	: Fuse block (J/B)	E4	(M35) Y/28	: Air bag diagnosis sensor unit	D2	(M64) W/4	: Fan control amp. (with auto A/C)
B2 *	(M4) W/16	: Fuse block (J/B)	D4	(M36) B/1	: Parking brake switch	E1	(M65) B/2	: Sunload sensor (with auto A/C)
A3	(M5) W/3	: Illumination control switch	E5	(M37) W/6	: Heated seat switch LH	E2	(M66) BR/20	: Joint connector-3
A3	(M6) GY/6	: TCS ON/OFF switch (with TCS)	E4	(M38) B/2	: Power socket	E3	(M67) W/8	: To (E13)
A3	(M7) W/18	: To (E28)	C4	(M39) W/3	: Air mix door motor (with auto A/C)	E3	(M68) W/10	: To (B102) early production
A2	(M8) W/16	: To (D2)	C4	(M40) W/3	: Mode door motor	E3	(M69) W/12	: To (B104) early production
A2	(M9) W/12	: To (D1)	D3	(M41) W/6	: Fan switch (with manual A/C or heater only)	E3	(M69) W/16	: To (B104) late production
A4	(M10) Y/4	: To (E29)	D3	(M42) W/6	: Rear window defogger switch	F3	(M70) W/6	: To (F58)
A3	(M11) W/16	: To (E1)	D3	(M43) W/10	: Audio unit	F3	(M71) W/24	: To (F59)
A3	(M12) W/16	: To (B2)	E3	(M44) W/6	: Audio unit	F1	(M72) BR/2	: Tweeter RH
B3	(M13) L/4	: Heated seat relay	E3	(M45) W/16	: Audio unit	F3	(M73) W/12	: To (B103)
B1	(M14) BR/2	: Security indicator lamp	D2	(M48) W/2	: Antenna amplifier	F2	(M74) W/10	: To (D102)
B1	(M15) W/3	: Auto light sensor (with auto lights)	E3	(M49) GY/20	: A/C auto amp. (with auto A/C)	F2	(M75) W/8	: To (D101)
B2	(M16) BR/20	: Joint connector-1	F3	(M50) GY/16	: A/C auto amp. (with auto A/C)	E4	(M76) W/6	: Heated seat switch RH
B2	(M17) P/20	: Joint connector-2	E3	(M51) W/12	: A/C control unit (with manual A/C or heater only)	E2	(M77) Y/2	: Front passenger air bag module
B4	(M18) BR/24	: BCM (Body control module)	D2	(M52) W/3	: Thermo control amplifier (with auto A/C)	E2	(M78) Y/2	: Front passenger air bag module
B3	(M19) W/16	: BCM (Body control module)	D3	(M53) W/2	: Intake sensor (with manual A/C)			
B3	(M20) W/16	: BCM (Body control module)	E3	(M54) W/2	: Trunk lid opener cancel switch			
B3	(M21) W/12	: BCM (Body control module)	E3	(M55) W/8	: Hazard switch			
B3	(M22) W/16	: Data link connector	E4	(M56) B/2	: Cigarette lighter			
C3	(M23) W/24	: Combination meter	D2	(M57) -	: Body ground			
C4	(M24) BR/24	: Combination meter	D2	(M58) W/3	: Intake door motor			
C2	(M25) B/2	: Ignition key illumination	E3	(M59) BR/2	: Glove box lamp			
C2	(M26) W/4	: Key switch and key lock solenoid						
C2	(M27) W/8	: Immobilizer control unit						
C4	(M28) W/16	: Combination switch						
C4	(M29) Y/6	: Combination switch						
C3	(M30) GY/8	: Combination switch						
C1	(M31) GY/10	: Shift lock control unit (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.

WKIA1006E

HARNESSES

ENGINE ROOM HARNESS (LH VIEW)



Refer to [PG-44, "Engine Room Harness \(RH View\)"](#) for continuation of engine room harness.

WKIA0291E

HARNESS

B4	(E1)	B/2	: Ambient sensor
D4	(E2)	BR/2	: Front fog lamp LH
D4	(E3)	B/1	: Horn (low)
B3	(E4)	Y/2	: Crash zone sensor
C3	(E5)	GY/2	: Hood switch (if equipped)
D3	(E6)	-	: Fuse and fusible link box
	(H-1)	W/3	: Horn relay (inside fuse and fusible link box)
D3	(E8)	BR/2	: Fusible link box (battery)
D2	(E10)	GY/2	: Fusible link box (battery)
E3	(E11)	B/2	: Headlamp LH (high)
D3	(E12)	B/3	: Front combination lamp LH
D3	(E13)	B/2	: Headlamp LH (low) (conventional type)
D3	(E13)	BR/2	: Headlamp LH (low) (xenon type)
E3	(E14)	-	: Body ground
E3	(E15)	-	: Body ground
F2	(E16)	GY/2	: Brake fluid level switch
D2	(E18)	BR/2	: Front wheel sensor LH
D2	* (E19)	GY/9	: To (F33)
E2	* (E20)	B/8	: To (F32)
D2	* (E21)	GY/10	: To (F34)
D2	(E22)	B/2	: To (F35) (with A/T)
E2	(E23)	GY/6	: Wiper motor

*: 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.

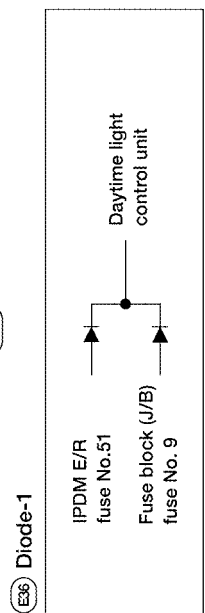
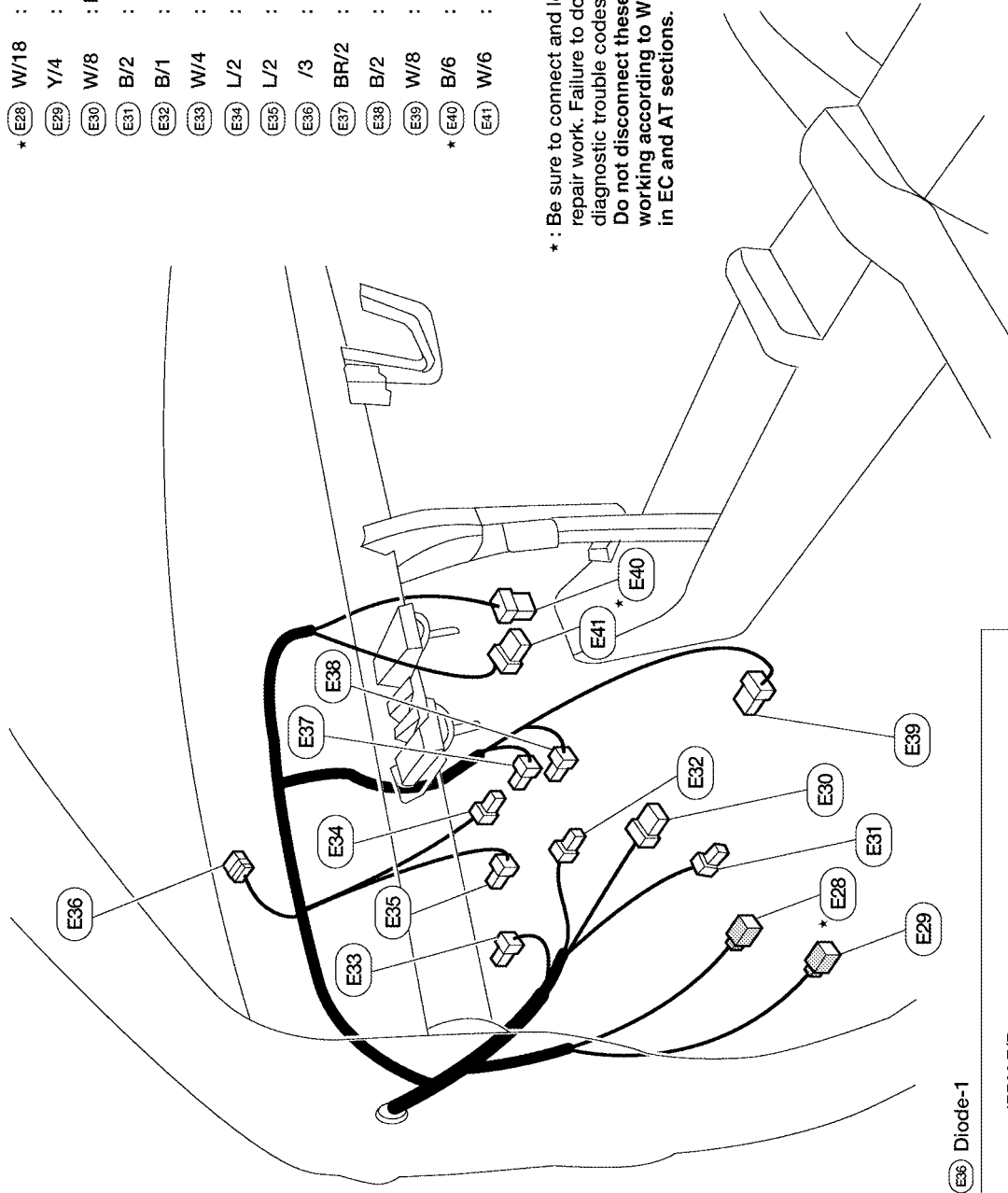
WKIA1043E

HARNESS

Passenger Compartment

- ★ E28 W/18 : To M7
- E29 Y/4 : To M10
- E30 W/8 : Fuse block J/B
- E31 B/2 : Fuse block J/B
- E32 B/1 : Fuse block J/B
- E33 W/4 : To B3
- E34 L/2 : Clutch interlock switch (with M/T)
- E35 L/2 : ASCD clutch switch (with M/T and ASCD)
- E36 /3 : Diode - 1 (with DTRL)
- E37 BR/2 : ASCD brake switch
- E38 B/2 : Stop lamp switch
- E39 W/8 : BCM (Body control module)
- ★ E40 B/6 : Accelerator pedal position sensor
- E41 W/6 : Ignition 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 in EC and AT sections.



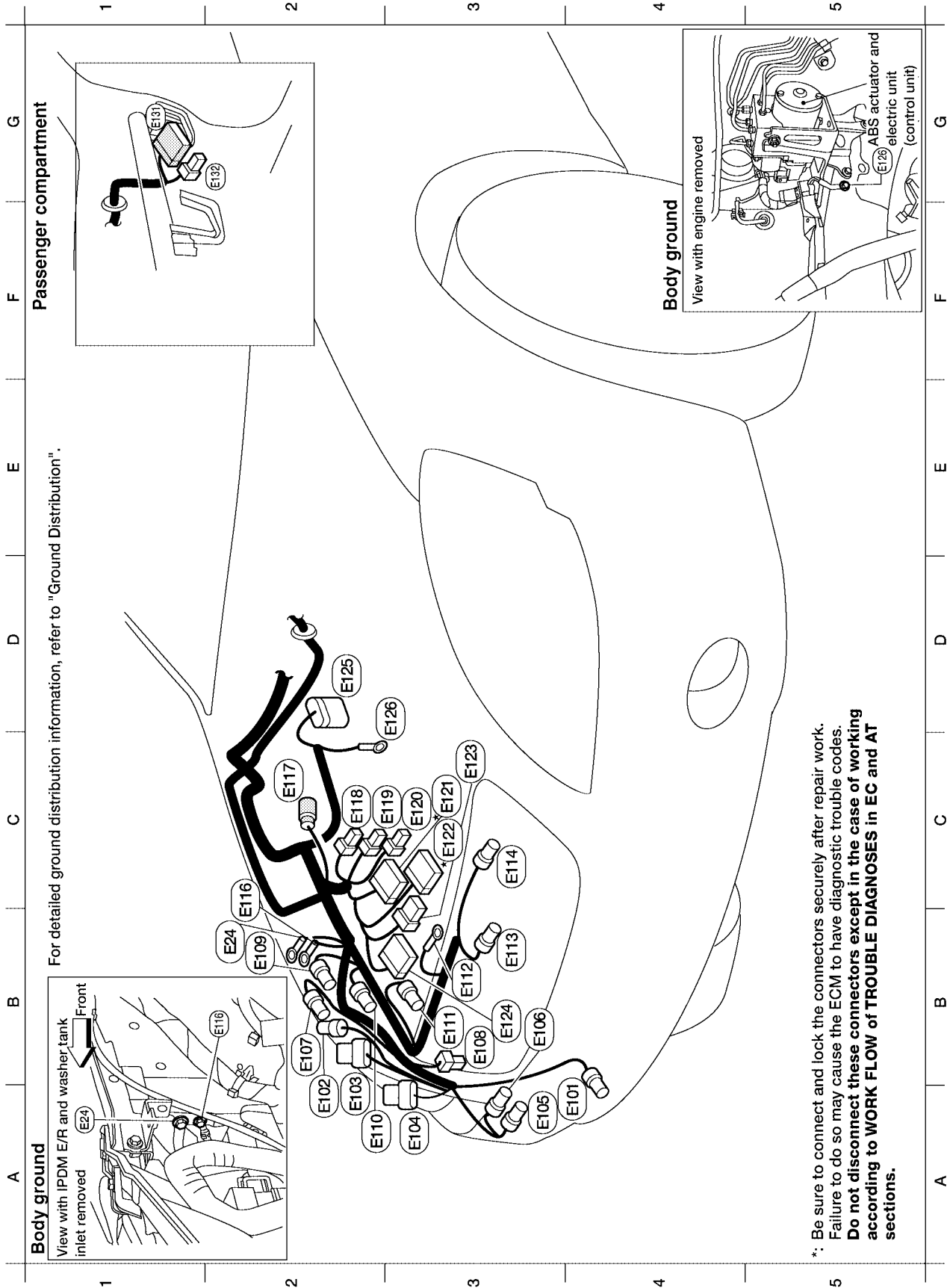
WKIA0101E

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PG

HARNESS

ENGINE ROOM HARNESS (RH VIEW)



Refer to [PG-41, "Engine Room Harness \(LH View\)"](#) for continuation of engine room harness.

WKIA0292E

HARNESSES

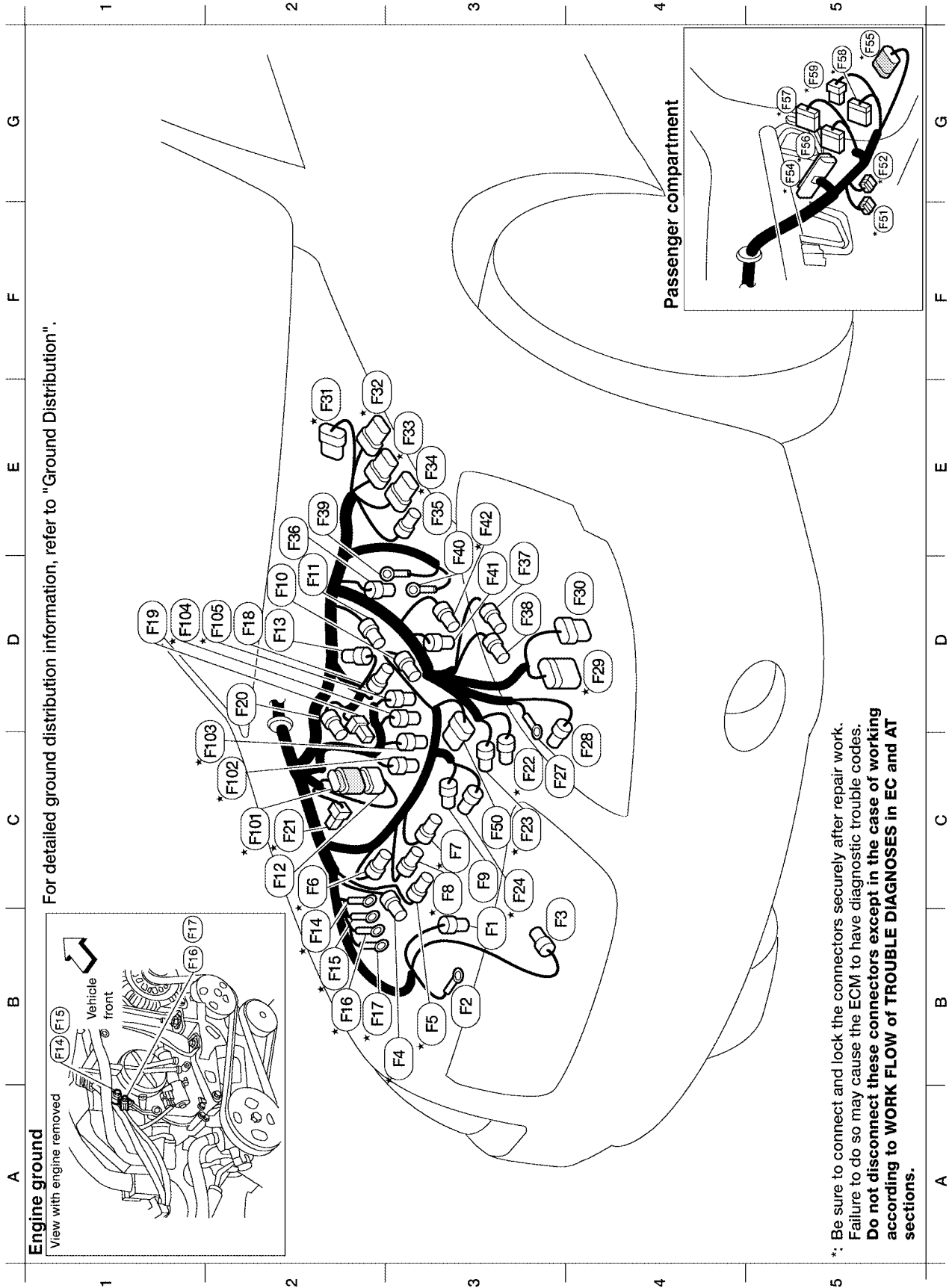
B2	(E24)	-	: Body ground
A4	(E101)	BR/2	: Front fog lamp RH
A2	(E102)	GY/4	: Daytime light control unit (for Canada)
A2	(E103)	GY/6	: Daytime light control unit (for Canada)
A3	(E104)	GY/8	: Daytime light control unit (for Canada)
A3	(E105)	GY/2	: Front washer motor
B3	(E106)	BR/2	: Washer fluid level sensor
B2	(E107)	B/2	: Headlamp RH (low) (conventional type)
B2	(E107)	BR/2	: Headlamp RH (low) (xenon type)
B3	(E108)	B/1	: Horn (high)
B2	(E109)	B/3	: Front combination lamp RH
A2	(E110)	B/2	: Headlamp RH (high)
B3	(E111)	B/3	: Refrigerant pressure sensor
B3	(E112)	-	: Generator (ground)
B3	(E113)	GY/4	: Cooling fan motor-1
C3	(E114)	GY/4	: Cooling fan motor-2
C2	(E116)	-	: Body ground
C2	(E117)	GY/2	: Front wheel sensor RH
C2	(E118)	B/4	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C3	(E119)	W/4	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C3	(E120)	B/2	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C3	(E121)	W/12	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C3	(E122)	GY/16	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C3	(E123)	W/6	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
C3	(E124)	W/12	: IPDM E/R (Intelligent Power Distribution Module Engine Room)
D2	(E125)	B/31	: ABS actuator and electric unit (with ABS or TCS)
D3	(E126)	-	: Body ground
G1	(E131)	W/8	: To (M67) (With ABS or TCS)
G2	(E132)	W/4	: To (E101) (With ABS or TCS)

*: 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.

WKIA0230E

HARNESS

ENGINE CONTROL HARNESS (QR25DE)



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

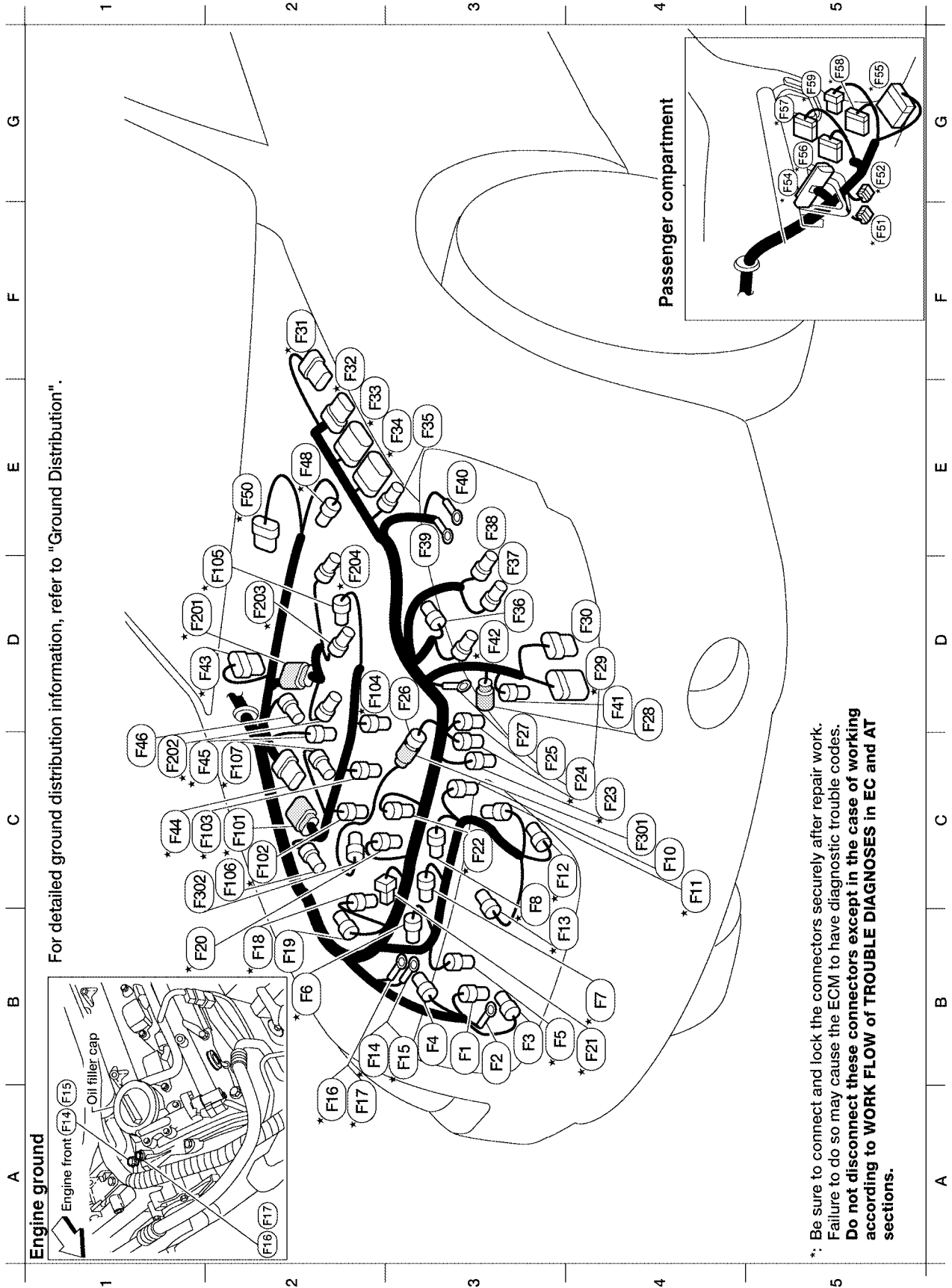
WKIA0112E

B3	(F1)	GY/2	: Generator	E2	(F31)	GY/5	: Mass air flow sensor
B3	(F2)	-	: Generator	E3	(F32)	B/8	: To (E20)
B4	(F3)	B/1	: A/C compressor	E3	(F33)	GY/9	: To (E19)
B3	(F4)	GY/2	: Intake valve timing control solenoid valve	E3	(F34)	GY/10	: To (E21)
B3	(F5)	GY/3	: Ignition coil No. 1 (with power transistor)	E3	(F35)	B/2	: To (E22) (with A/T)
C2	(F6)	GY/3	: Ignition coil No. 2 (with power transistor)	E2	(F36)	GY/2	: Vehicle speed sensor
C3	(F7)	GY/3	: Ignition coil No. 4 (with power transistor)	D3	(F37)	B/3	: Turbine revolution sensor (with A/T)
C3	(F8)	GY/3	: Ignition coil No. 3 (with power transistor)	D3	(F38)	B/3	: Revolution sensor (with A/T)
C3	(F9)	B/3	: Camshaft position sensor (PHASE)	E2	(F39)	-	: Battery (positive)
D2	(F10)	L/2	: EVAP canister purge volume control solenoid valve	D3	(F40)	-	: Fusible link box (battery)
D2	(F11)	B/3	: Crankshaft position sensor	D3	(F41)	B/2	: Back-up lamp switch (with M/T)
C2	(F12)	B/6	: To (F101)	E3	(F42)	B/2	: Park/neutral position (PNP) switch (with M/T)
D2	(F13)	BR/2	: VISA control solenoid valve	C3	(F50)	G/6	: Electric throttle control actuator
B2	(F14)	-	: Engine ground	F5	(F51)	L/12	: Joint connector-4
B2	(F15)	-	: Engine ground	G5	(F52)	L/12	: Joint connector-5
B2	(F16)	-	: Engine ground	G5	(F54)	SMJ	: ECM
B2	(F17)	-	: Engine ground	G5	(F55)	W/12	: To (B105)
D2	(F18)	GY/2	: Knock sensor	G5	(F56)	W/24	: TCM (transmission control module) (with A/T)
D1	(F19)	GY/1	: Oil pressure switch	G5	(F57)	GY/24	: TCM (transmission control module) (with A/T)
D2	(F20)	B/1	: Power steering oil pressure switch	G5	(F58)	W/6	: To (M70)
C2	(F21)	GY/2	: Condenser 2	G5	(F59)	W/24	: To (M71)
C3	(F22)	G/4	: Heated oxygen sensor 1 (Front)	Engine control sub-harness			
C3	(F23)	L/4	: Heated oxygen sensor 2 (Rear)	C2	(F101)	B/6	: To (F12)
C3	(F24)	GY/2	: Engine coolant temperature sensor	C2	(F102)	GY/2	: Injector No. 1
C4	(F27)	-	: Starter motor	C2	(F103)	GY/2	: Injector No. 2
C4	(F28)	GY/1	: Starter motor	D1	(F104)	GY/2	: Injector No. 3
D4	(F29)	B/10	: Park/neutral position (PNP) switch (with A/T)	D2	(F105)	GY/2	: Injector No. 4
D4	(F30)	B/8	: Terminal cord assembly (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.

HARNESS

ENGINE CONTROL HARNESS (VQ35DE)



*: 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.**

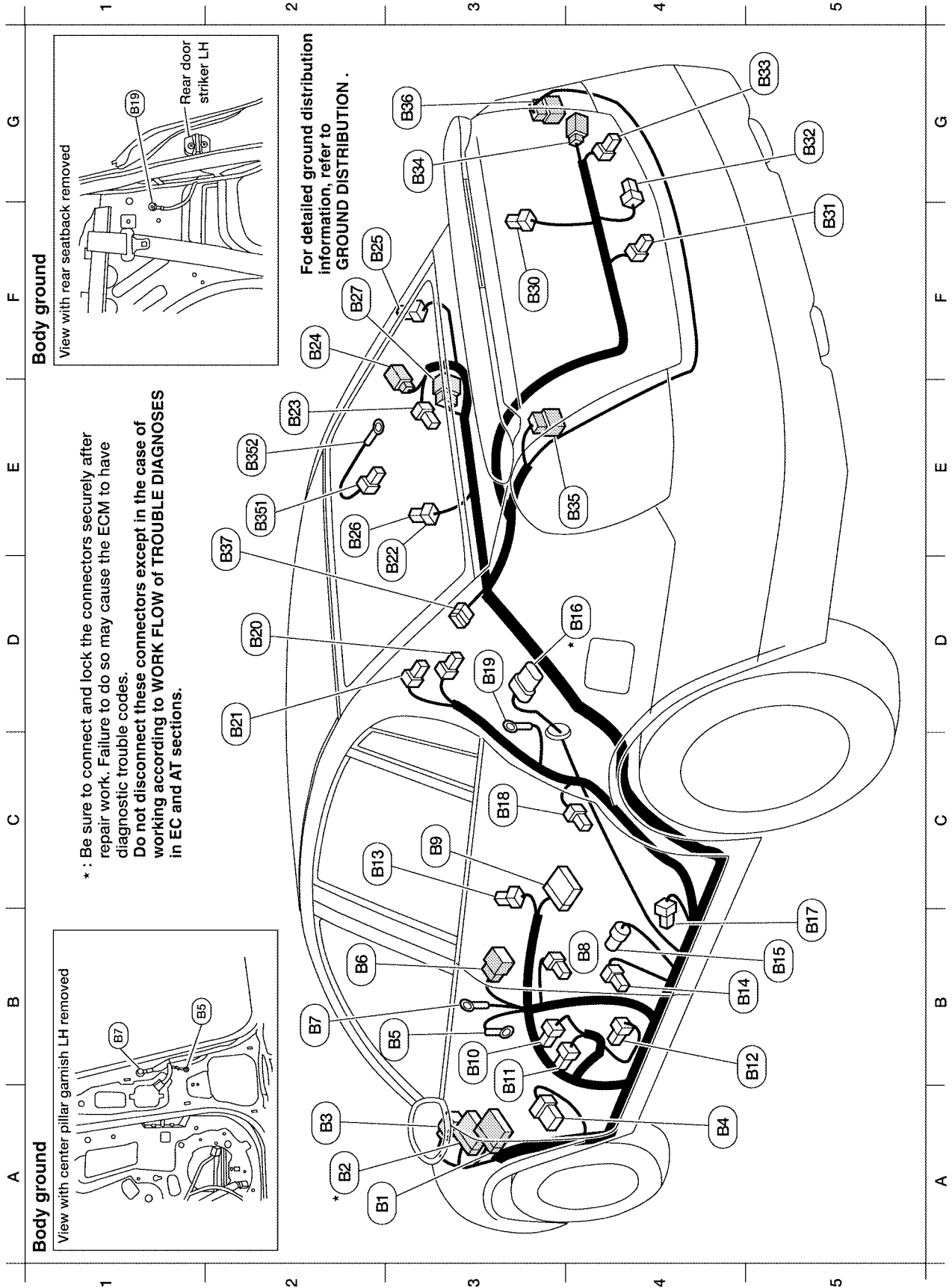
WKIA0114E

B3 (F1) GY/2 : Generator B3 (F2) - : Generator B3 (F3) B/1 : A/C compressor B3*(F4) G/2 : Intake valve timing control solenoid valve (Bank 2) B3*(F5) B/3 : Heated oxygen sensor 1 (Front) (Bank 2) B2*(F6) GY/3 : Ignition coil No. 2 (with power transistor) B4*(F7) GY/3 : Ignition coil No. 4 (with power transistor) C3*(F8) GY/3 : Ignition coil No. 6 (with power transistor) C4 (F10) BR/3 : Front electronic controlled engine mount C4*(F11) B/3 : Crankshaft position sensor C3*(F12) G/4 : Heated oxygen sensor 2 (Rear) (Bank 2) B3*(F13) L/4 : Heated oxygen sensor 2 (Rear) (Bank 1) B2*(F14) - : Engine ground B3*(F15) - : Engine ground A2*(F16) - : Engine ground A2*(F17) - : Engine ground B2*(F18) GY/2 : Injector No. 2 B2 (F19) B/2 : VIAS control solenoid valve B2*(F20) GY/2 : Injector No. 4 B4*(F21) GY/2 : Condenser 2 C3*(F22) GY/2 : Injector No. 6 C4*(F23) B/3 : Camshaft position sensor (PHASE) (Bank 2) C4*(F24) GY/2 : Engine coolant temperature sensor C3 (F25) BR/3 : Rear electronic controlled engine mount C3 (F26) B/2 : To (F30) C3 (F27) - : Starter motor D4 (F28) GY/1 : Starter motor	D4 *(F29) B/10 : Park/neutral position (PNP) switch (with A/T) D4 (F30) B/8 : Terminal cord assembly (with A/T) F2 *(F31) GY/5 : Mass air flow sensor F2 *(F32) B/8 : To (E20) E3 *(F33) GY/9 : To (E19) E3 *(F34) GY/10 : To (E21) E3 (F35) B/2 : To (E22) (with A/T) D3 (F36) GY/2 : Vehicle speed sensor D3 (F37) B/3 : Turbine revolution sensor (with A/T) E3 (F38) B/3 : Revolution sensor (with A/T) D3 (F39) - : Battery (positive) E3 (F40) - : Fusible link box (battery) D4 (F41) B/2 : Back-up lamp switch (with M/T) D3*(F42) B/2 : Park/neutral position (PNP) switch (with M/T) D2 *(F43) G/6 : To (F20) C1 *(F44) G/8 : To (F10) C2 *(F45) B/3 : Heated oxygen sensor 1 (Front) (Bank 1) C1 (F46) B/3 : Power steering oil pressure sensor E2 *(F48) G/3 : Camshaft position sensor (PHASE) (Bank 1) E2 *(F50) G/6 : Electric throttle control actuator F5 *(F51) L/12 : Joint connector-4 G5 *(F52) L/12 : Joint connector-5 G5 *(F54) SMJ : ECM G5 *(F55) W/12 : To (B105) G5 *(F56) W/24 : TCM (transmission control module) (with A/T) G5 *(F57) GY/24 : TCM (transmission control module) (with A/T) G5 *(F58) W/6 : To (M70) G5 *(F59) W/24 : To (M71)	C2 *(F10) G/8 : To (F44) C2 *(F102) GY/2 : Injector No. 1 C2 *(F103) GY/2 : Injector No. 3 D2 *(F104) GY/2 : Injector No. 5 D2 *(F105) L/2 : EVAP canister purge volume control solenoid valve C2 (F106) B/1 : Oil pressure switch C2 *(F107) G/2 : Intake valve timing control solenoid valve (Bank 1)	Engine control sub-harness-1 C2 *(F201) G/6 : To (F43) C1 *(F202) GY/3 : Ignition coil No. 1 (with power transistor) D2 *(F203) GY/3 : Ignition coil No. 3 (with power transistor) D2 *(F204) GY/3 : Ignition coil No. 5 (with power transistor)	Engine control sub-harness-2 C4 (F301) B/2 : To (F26) C1 (F302) GY/2 : Knock sensor	Engine control sub-harness-3
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*: Be sure to connect and lock the connectors securely after repair work.
 Failure to do so may cause the ECM to have diagnostic trouble codes.
Do not disconnect these connectors except in the case of working according to WORK FLOW of TROUBLE DIAGNOSES in EC and AT sections.

HARNESS

BODY HARNESS



WKIA1007E

HARNESS

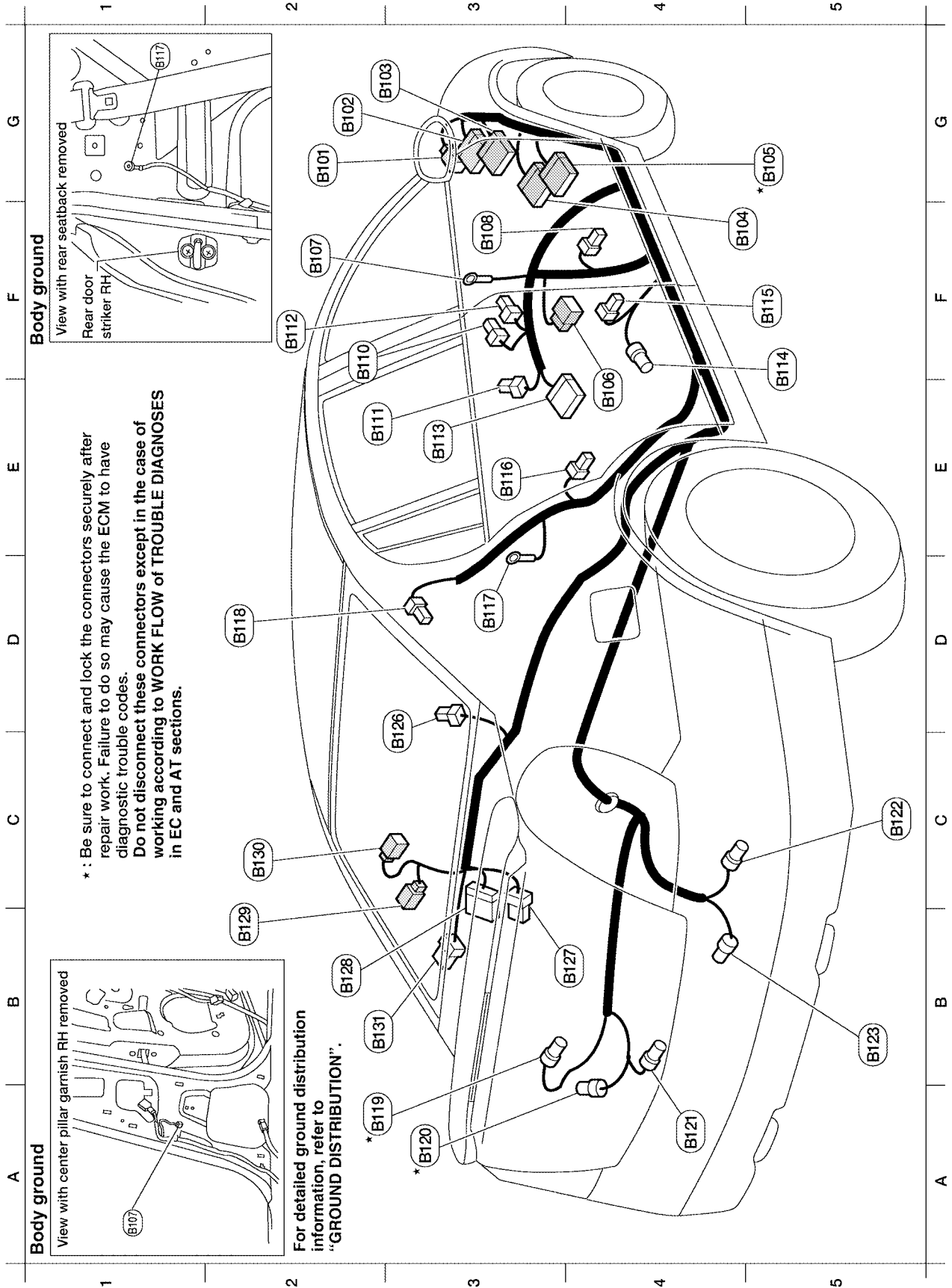
A2	(B1)	W/16	: To (M11)
A2 *	(B2)	W/16	: To (M12)
A2	(B3)	W/4	: To (E33)
A4	(B4)	BR/6	: Rear window defogger relay
A3	(B5)	-	: Body ground
B3	(B6)	W/8	: To (D20)
B3	(B7)	-	: Body ground
B4	(B8)	W/3	: Front door switch LH
C3	(B9)	Y/12	: Air bag diagnosis sensor unit
B3	(B10)	Y/2	: Front LH side air bag module
B3	(B11)	W/2	: Power seat
B5	(B12)	W/3	: Seatbelt buckle switch LH
C3	(B13)	W/3	: Heated seat switch
B5	(B14)	Y/2	: Front LH seat belt pre-tensioner
B5	(B15)	Y/2	: LH side airbag (satellite) sensor
D4 *	(B16)	GY/5	: Fuel level sensor unit and fuel pump
B5	(B17)	W/2	: Condenser-1
C3	(B18)	W/1	: Rear door switch LH
D3	(B19)	-	: Body ground

D2	(B20)	Y/2	: LH side curtain air bag module
C2	(B21)	W/1	: Rear window defogger condenser
D3	(B22)	BR/2	: Rear speaker LH (without Bose audio system)
E2	(B23)	W/2	: Trunk room lamp (without Bose audio system)
F2	(B24)	W/2	: High mounted stop lamp (without rear spoiler and with Bose audio system)
F3	(B25)	BR/2	: Rear speaker RH (without Bose audio system)
E2	(B26)	W/2	: Subwoofer LH (with Bose audio system)
F2	(B27)	W/8	: To (B131) (with Bose audio system)
F3	(B30)	BR/2	: High mounted stop lamp (with rear spoiler)
F5	(B31)	BR/2	: License lamp LH
G5	(B32)	W/4	: Trunk lamp switch and trunk release solenoid
G5	(B33)	BR/2	: License lamp RH
G3	(B34)	W/2	: Trunk key cylinder switch
E4	(B35)	W/6	: Rear combination lamp LH
G3	(B36)	W/6	: Rear combination lamp RH
E2	(B37)	B/20	: Joint connector-7
E2	(B38)	B/1	: Rear window defogger
E2	(B39)	-	: Body 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.

HARNESS

BODY NO. 2 HARNESS



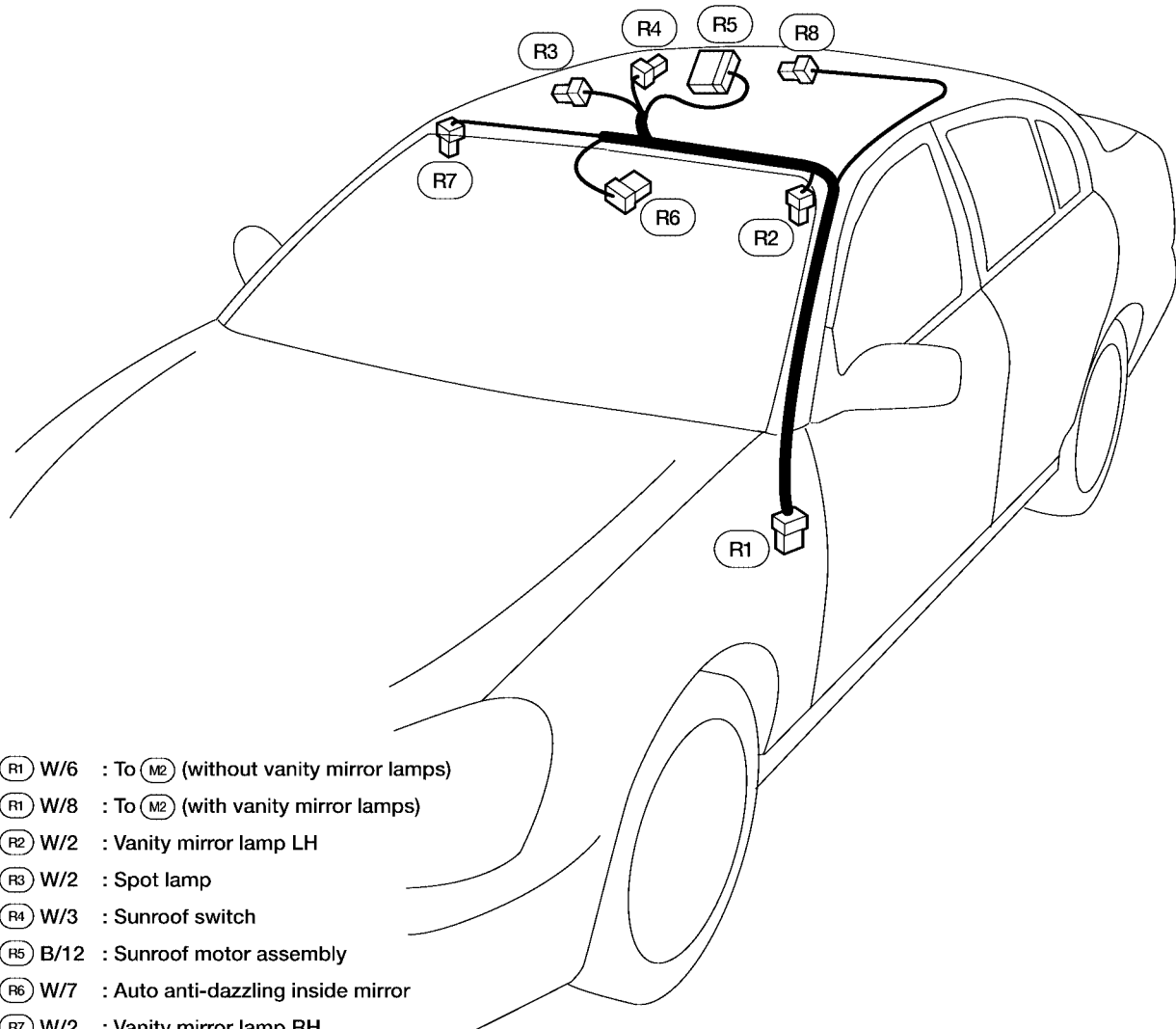
WKIA0104E

G2	(6101)	W/4	: To (E32)	
G2	(6102)	W/10	: To (M68) early production	
G2	(6103)	W/12	: To (M73)	
F4	(6104)	W/12	: To (M69) early production	
F4	(6104)	W/16	: To (M69) late production	
F5	(6105)	W/12	: To (F55)	
F4	(6106)	W/8	: To (D301)	
F2	(6107)	-	: Body ground	
F3	(6108)	W/3	: Front door switch RH	
F2	(6110)	W/3	: Seat belt buckle switch RH	
E2	(6111)	W/3	: Heated seat switch RH	
F2	(6112)	Y/2	: Front RH side air bag module	
E3	(6113)	Y/12	: Air bag diagnosis sensor unit	
F5	(6114)	Y/2	: RH side air bag (satellite) sensor	
F5	(6115)	Y/2	: Front RH seatbelt pre-tensioner	
E3	(6116)	W/1	: Rear door switch RH	
D3	(6117)	-	: Body ground	
D2	(6118)	Y/2	: RH side curtain air bag module	
A2	(6119)	BR/3	: EVAP control system pressure sensor (QR25DE)	
A2	(6119)	GY/3	: EVAP control system pressure sensor (VQ35DE)	
A3	(6120)	G/2	: Vacuum cut valve bypass valve	
A4	(6121)	B/2	: EVAP canister vent control valve	
C5	(6122)	GY/2	: Rear wheel sensor RH	
B5	(6123)	BR/2	: Rear wheel sensor LH	
C3	(6126)	W/2	: Subwoofer RH (with Bose audio system)	
B4	(6127)	GY/8	: Bose Speaker Amp.	
B2	(6128)	B/24	: Bose Speaker Amp.	
B2	(6128)	W/2	: High mounted stop lamp (without rear spoiler and with Bose audio system)	
C2	(6130)	W/2	: Trunk room lamp (with Bose audio system)	
B2	(6131)	W/8	: To (627) (with Bose audio system)	

* : 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

ROOM LAMP HARNESS



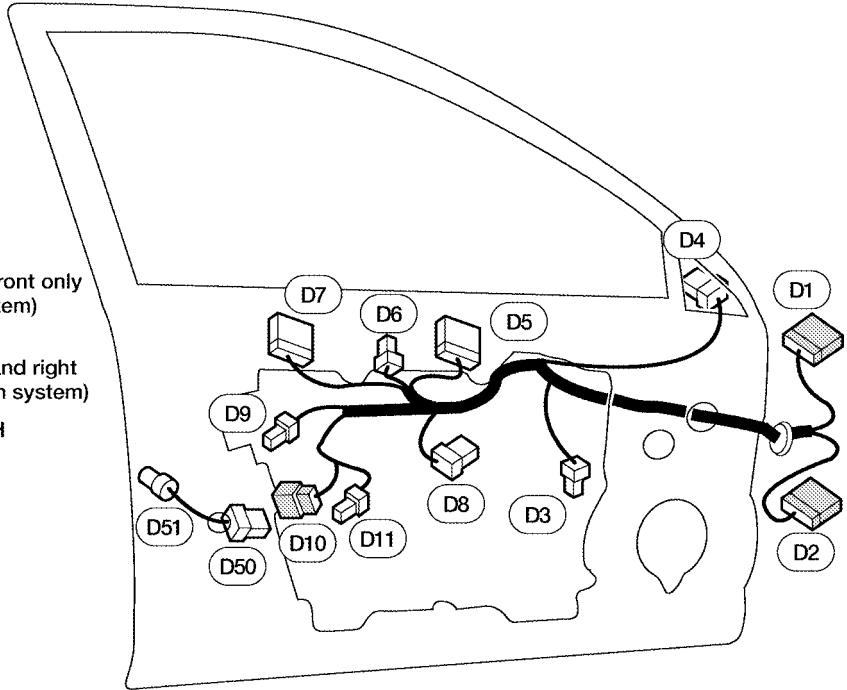
- Ⓡ1 W/6 : To Ⓜ2 (without vanity mirror lamps)
- Ⓡ1 W/8 : To Ⓜ2 (with vanity mirror lamps)
- Ⓡ2 W/2 : Vanity mirror lamp LH
- Ⓡ3 W/2 : Spot lamp
- Ⓡ4 W/3 : Sunroof switch
- Ⓡ5 B/12 : Sunroof motor assembly
- Ⓡ6 W/7 : Auto anti-dazzling inside mirror
- Ⓡ7 W/2 : Vanity mirror lamp RH
- Ⓡ8 W/2 : Room lamp

WKIA0092E

HARNESS

FRONT DOOR LH HARNESS

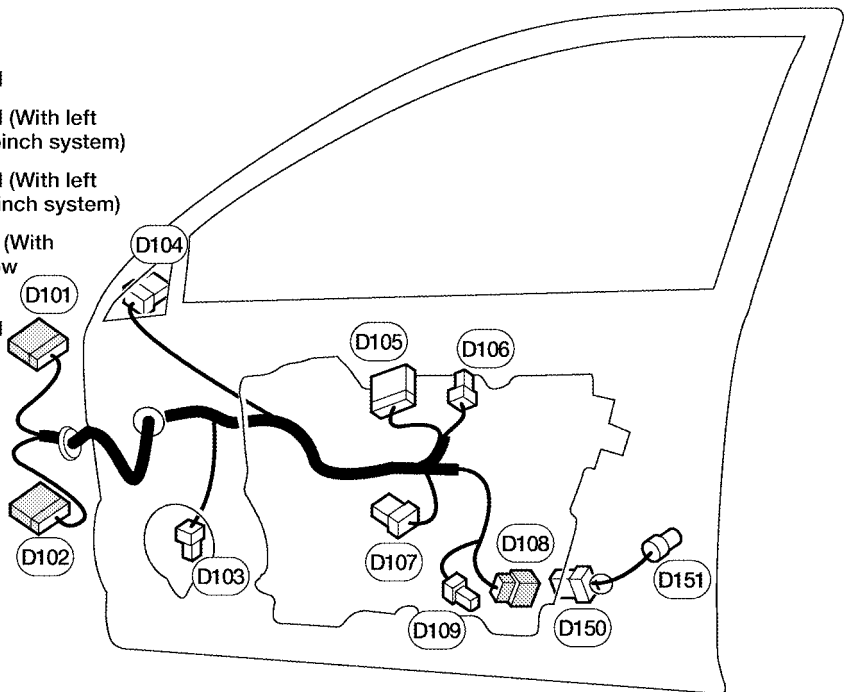
- (D1) W/12 : To (M9)
 - (D2) W/16 : To (M8)
 - (D3) W/2 : Front door speaker LH
 - (D4) W/8 : Door mirror LH
 - (D5) W/10 : Door mirror switch
 - (D6) W/3 : Main power window and door lock/unlock switch
 - (D7) W/16 : Main power window and door lock/unlock switch (With left front only power window anti-pinch system)
 - (D7) BR/16 : Main power window and door lock/unlock switch (With left and right front power window anti-pinch system)
 - (D8) W or BR/6 : Front power window motor LH
 - (D9) W/4 : Trunk lid opener switch
 - (D10) W/6 : To (D50)
 - (D11) W/2 : Step lamp LH
- Front door LH sub-harness**
- (D50) W/6 : To (D10)
 - (D51) GY/4 : Front door lock actuator LH



WKIA0093E

FRONT DOOR RH HARNESS

- (D101) W/8 : To (M75)
 - (D102) W/10 : To (M74)
 - (D103) W/2 : Front door speaker RH
 - (D104) W/8 : Door mirror RH
 - (D105) W/12 : Front power window switch RH
 - (D106) BR/8 : Front power window switch RH (With left front only power window anti-pinch system)
 - (D106) W/8 : Front power window switch RH (With left and right power window anti-pinch system)
 - (D107) W or BR/6 : Front power window motor RH (With left and front only power window anti-pinch system)
 - (D107) W/2 : Front power window switch RH (With left and right front power window anti-pinch system)
 - (D108) W/2 : To (D150)
 - (D109) W/2 : Step lamp RH
- Front door RH sub-harness**
- (D150) W/6 : To (D108)
 - (D151) GY/4 : Front door lock actuator RH

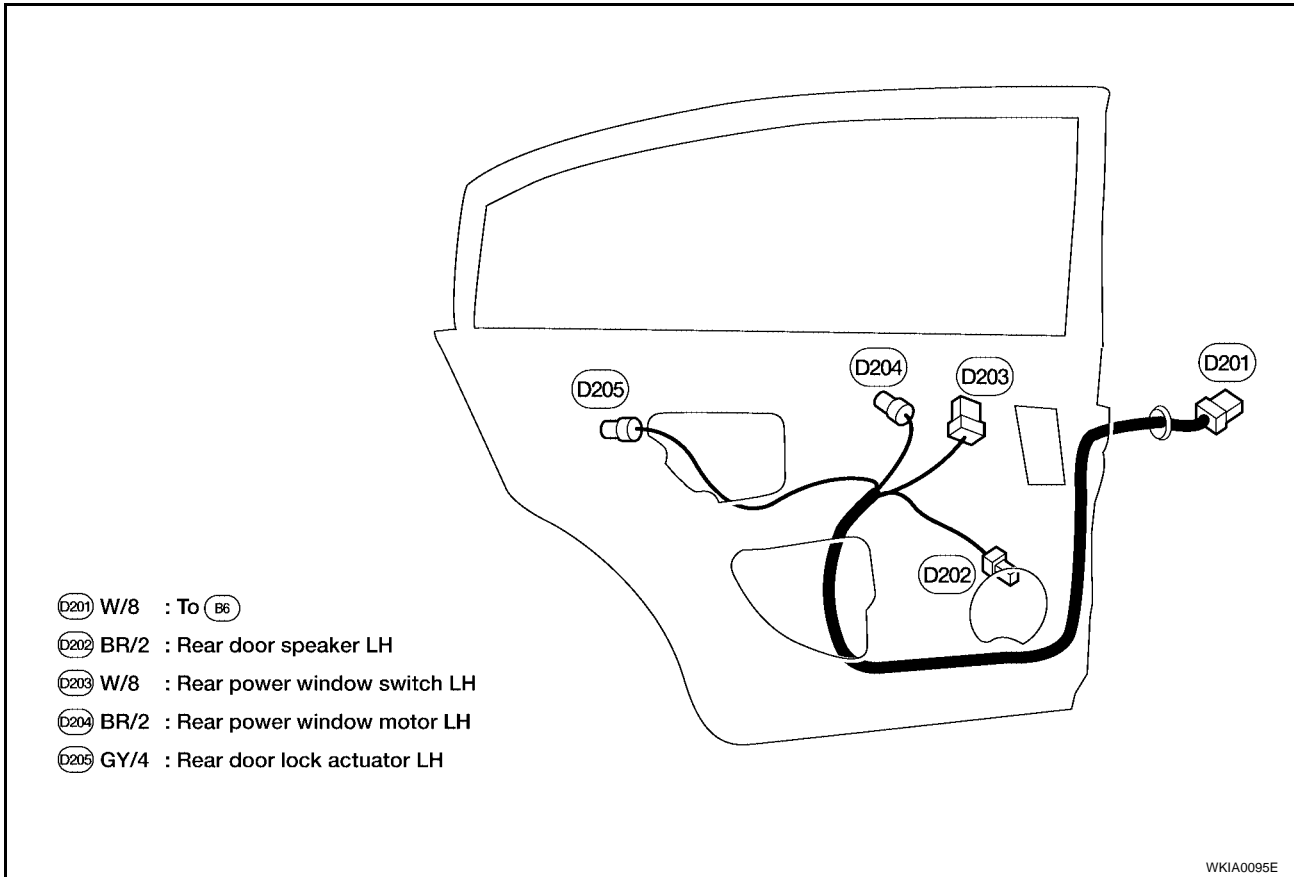


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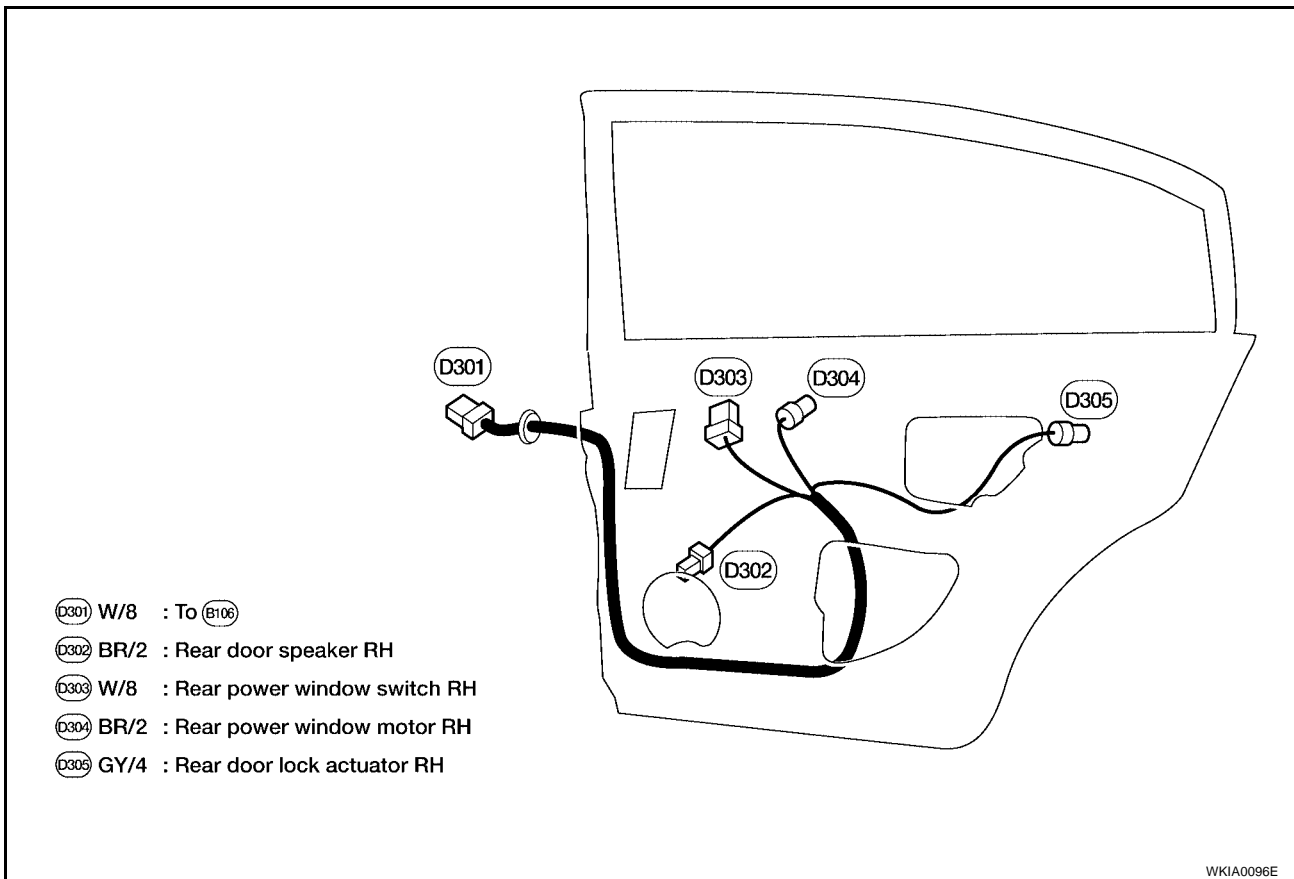
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HARNESS

REAR DOOR LH HARNESS



REAR DOOR RH HARNESS



HARNESS

EKS003JH

Wiring Diagram Codes (Cell Codes)

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
A/C,A	ATC	Auto Air Conditioner
A/C,M	MTC	Manual Air Conditioner
A/LIGHT	LT	Auto Light Control
ABS	BRC	Anti-Lock Brake System
APPS1	EC	Accelerator Pedal Position Sensor
APPS2	EC	Accelerator Pedal Position Sensor
APPS3	EC	Accelerator Pedal Position Sensor
ASCBOF	EC	ASCD Brake Switch
ASC/BS	EC	ASCD Brake Switch
ASCIND	EC	ASCD Indicator
ASC/SW	EC	ASCD Steering Switch
AT/IND	DI	A/T Indicator Lamp
AUDIO	AV	Audio
B/COMP	DI	Board Computer
BAF/TS	AT	A/T Fluid Temperature Sensor and TCM Power Supply
BACK/L	LT	Back-up Lamp
BRK/SW	EC	Brake Switch
BYP/SV	EC	Vacuum Cut Valve Bypass Valve
CAN	AT	CAN Communication Line
CAN	EC	CAN Communication Line
CAN	LAN	CAN System
CHARGE	SC	Charging System
CHIME	DI	Warning Chime
CIGAR	WW	Cigarette Lighter
COOL/F	EC	Cooling Fan Control
D/LOCK	BL	Power Door Lock
DEF	GW	Rear Window Defogger
DLC	EC	Data Link Connector
DTRL	LT	Headlamp - With Daytime Light System
ECM/PW	EC	ECM Power Supply for Back-Up
ECTS	EC	Engine Coolant Temperature Sensor
ENGSS	AT	Engine Speed Signal
EMNT	EC	Engine Mount
ETC1	EC	Electric Throttle Control Function
ETC2	EC	Throttle Control Motor Relay
ETC3	EC	Throttle Control Motor
F/FOG	LT	Front Fog Lamp
F/PUMP	EC	Fuel Pump
FLS1	EC	Fuel Level Sensor Function (SLOSH)
FLS2	EC	Fuel Level Sensor Circuit
FLS3	EC	Fuel Level Sensor Circuit (Ground Signal)
FTS	AT	A/T Fluid Temperature Sensor
FTTS	EC	Fuel Tank Temperature Sensor

HARNESSES

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
H/MIRR	GW	Door Mirror with Heated Mirror
HEATER	MTC	Heater System
HO2S1	EC	Heated Oxygen Sensor 1 (Front)
HO2S1H	EC	Heated Oxygen Sensor 1 (Front) Heater
HO2S2	EC	Heated Oxygen Sensor 2 (Rear)
HO2S2H	EC	Heated Oxygen Sensor 2 (Rear) Heater
HORN	WW	Horn
HSEAT	SE	Heated Seat
I/MIRR	GW	Inside Mirror (Auto-Anti Dazzling Mirror)
IATS	EC	Intake Air Temperature Sensor
IGNSYS	EC	Ignition System
ILL	LT	Illumination
INJECT	EC	Injector
INT/L	LT	Spot, Vanity Mirror and Trunk Room Lamps
IVC	EC	Intake Valve Timing Control Solenoid Valve
IVCB1	EC	Intake Valve Timing Control Solenoid Valve Bank 1
IVCB2	EC	Intake Valve Timing Control Solenoid Valve Bank 2
IVCSB1	EC	Intake Valve Timing Control Position Sensor Bank 1
IVCSB2	EC	Intake Valve Timing Control Position Sensor Bank 2
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., Oil and Fuel Gauges
MIL	EC	Malfunction Indicator Lamp
MIRROR	GW	Door Mirror
NATS	BL	Nissan Anti-Theft System
NONDTC	AT	Non-detective Items
O2H1B1	EC	Heated Oxygen Sensor 1(Front) Heater Bank 1
O2H1B2	EC	Heated Oxygen Sensor 1 (Front) Heater Bank 2
O2H2B1	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 1
O2H2B2	EC	Rear Heated Oxygen Sensor 2 (Rear) Heater Bank 2
O2S1B1	EC	Heated Oxygen Sensor 1 (Front) Bank 1
O2S1B2	EC	Heated Oxygen Sensor 1 (Front) Bank 2
O2S2B1	EC	Heated Oxygen Sensor 2 (Rear) Bank 1
O2S2B2	EC	Heated Oxygen Sensor 2 (Rear) Bank 2
OVRCSV	AT	Over Run Clutch Solenoid Valve
PGC/V	EC	EVAP Canister Purge Volume Control Solenoid Valve
PHASE	EC	Camshaft Position Sensor (PHASE)
PHSB1	EC	Camshaft Position Sensor (PHASE) (Bank 1)
PHSB2	EC	Camshaft Position Sensor (PHASE) (Bank 2)
PNP/SW	AT	Park/Neutral Position Switch
PNP/SW	EC	Park/Neutral Position Switch
POS	EC	Crankshaft Position Sensor (CKPS) (POS)
POWER	PG	Power Supply Routing
PRE/SE	EC	EVAP Control System Pressure Sensor

HARNESSES

PS/SEN	EC	Power Steering Oil Pressure Sensor	A
PST/SW	EC	Power Steering Oil Pressure Switch	
REMOTE	AV	Audio (Remote Control Switch)	
ROOM/L	LT	Interior Room Lamp	B
RP/SEN	EC	Refrigerant Pressure Sensor	
S/SIG	EC	Start Signal	
SEAT	SE	Power Seat	C
SEN/PW	EC	Sensor Power Supply	
SHIFT	AT	A/T Shift Lock System	
SROOF	RF	Sunroof	D
SRS	SRS	Supplemental Restraint System	
SSV/A	AT	Shift Solenoid Valve A	
SSV/B	AT	Shift Solenoid Valve B	E
START	SC	Starting System	
STEP/L	LT	Step Lamp	
STOP/L	LT	Stop Lamp	F
TLID	BL	Trunk Lid Opener	
TAIL/L	LT	Parking, License and Tail Lamps	
TCCSIG	AT	A/T TCC Signal (Lock Up)	G
TCS	BRC	Traction Control System	
TCV	AT	Torque Converter Clutch Solenoid Valve	
TPS	AT	Throttle Position Sensor	H
TPS1	EC	Throttle Position Sensor	
TPS2	EC	Throttle Position Sensor	
TPS3	EC	Throttle Position Sensor	I
TRNSCV	BL	HOMELINK® Universal Transceiver	
TRSA/T	AT	Turbine Revolution Sensor	
TURN	LT	Turn Signal and Hazard Warning Lamps	J
VEHSEC	BL	Vehicle Security System	
VENT/V	EC	EVAP Canister Vent Control Valve	
VIAS	EC	Variable Air Induction Control System	PG
VIAS/V	EC	Variable Air Induction Control System Valve	
VSSA/T	AT	Vehicle Speed Sensor A/T (Revolution Sensor)	
VSSMTR	AT	Vehicle Speed Sensor Meter	L
W/ANT	AV	Audio Antenna	
WARN	DI	Warning Lamps	
WINDOW	GW	Power Window	M
WIPER	WW	Front Wiper and Washer	

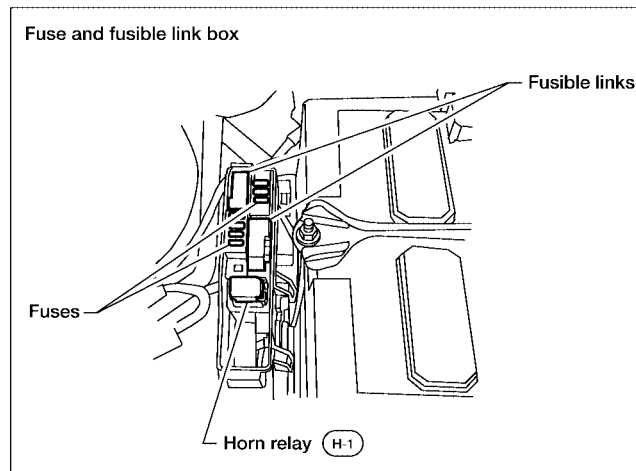
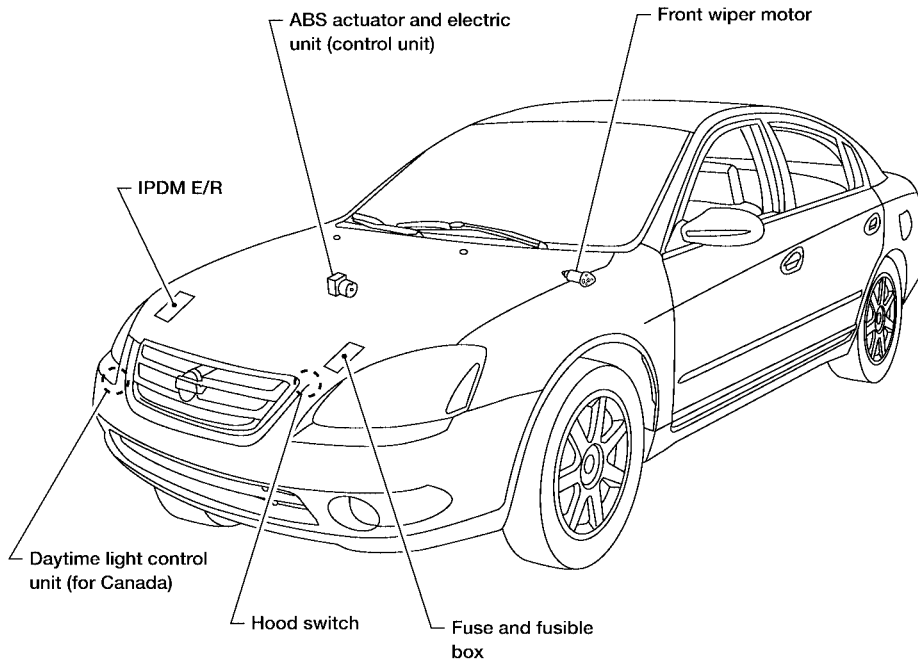
ELECTRICAL UNITS LOCATION

PF2:25230

EKS003JI

ELECTRICAL UNITS LOCATION

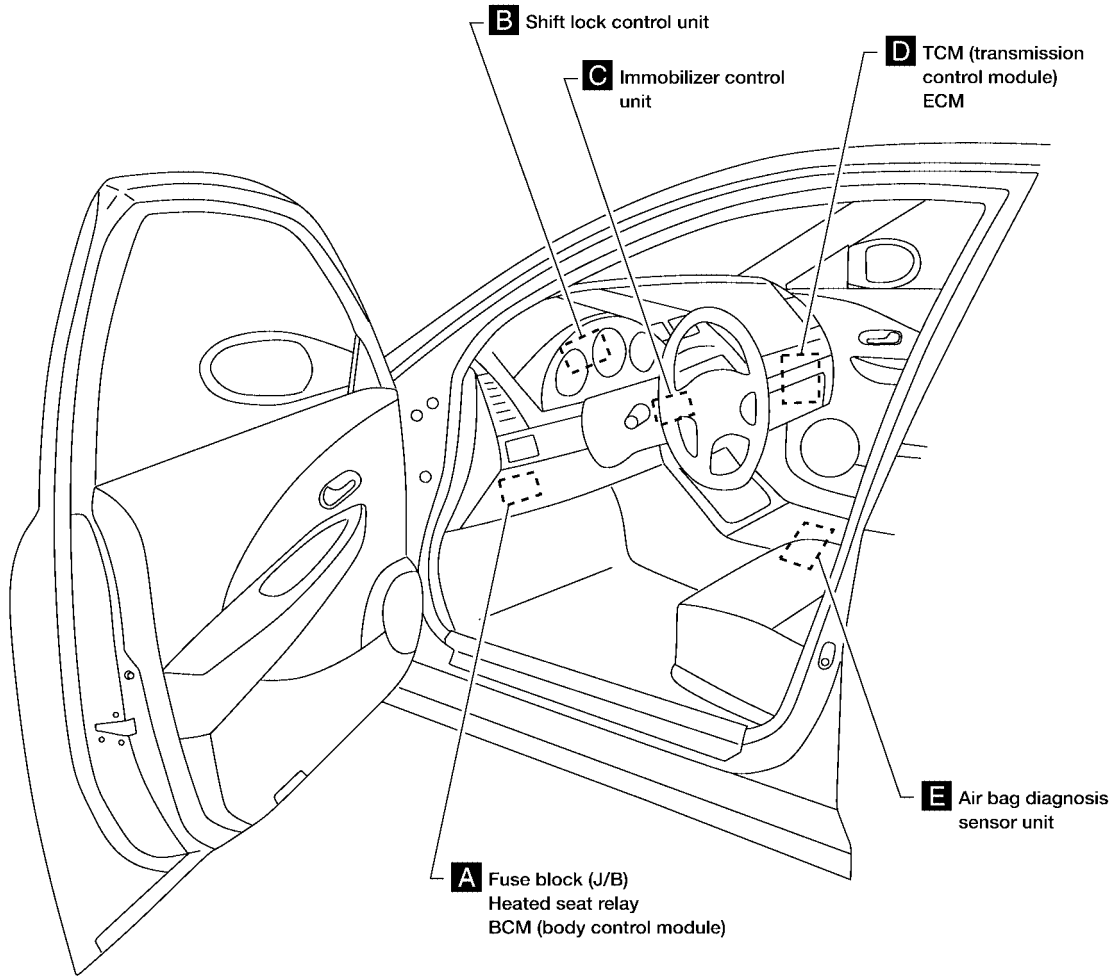
Electrical Units Location ENGINE COMPARTMENT



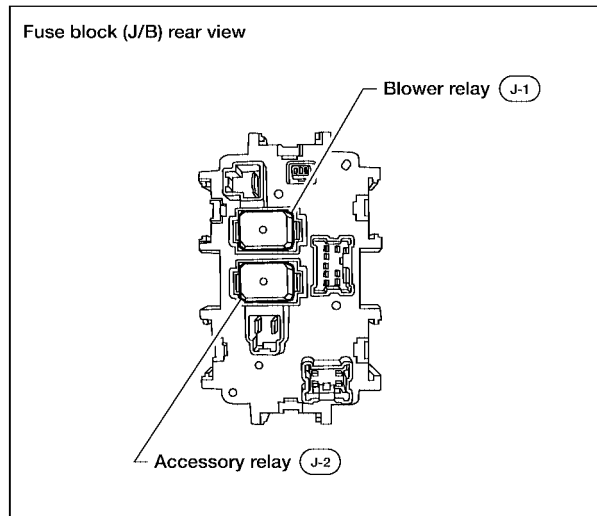
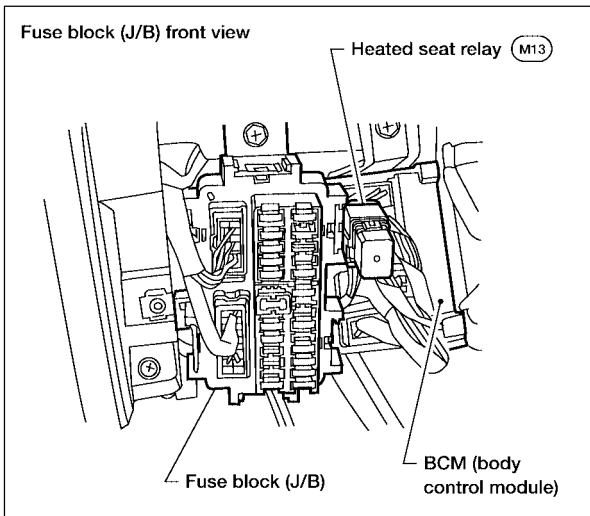
WKIA0124E

ELECTRICAL UNITS LOCATION

PASSENGER COMPARTMENT

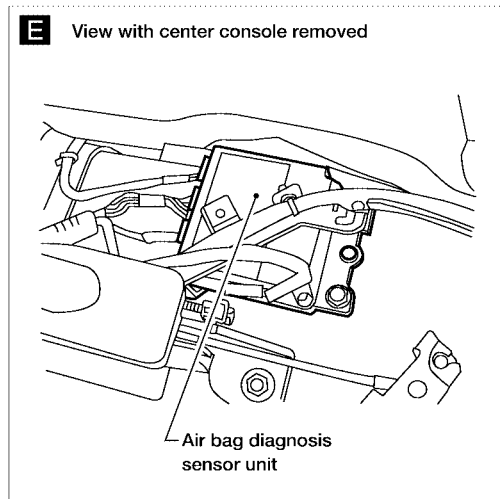
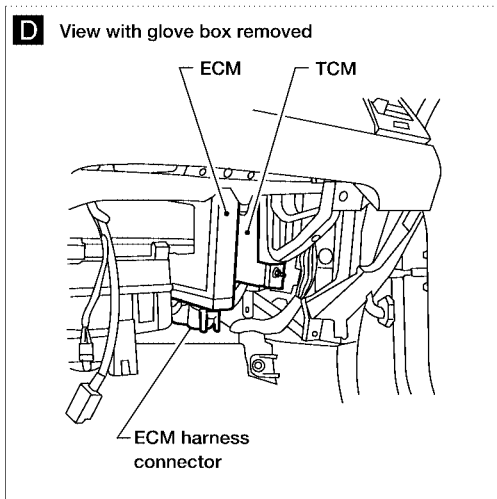
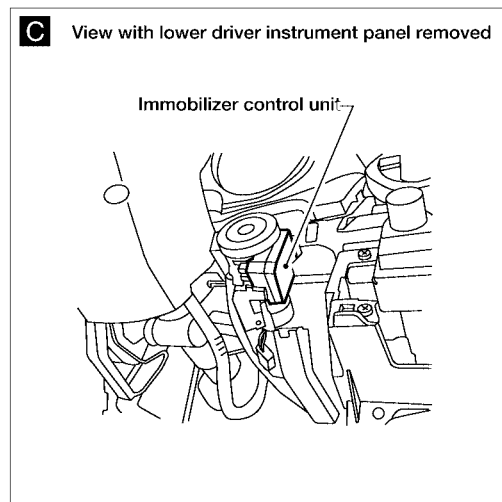
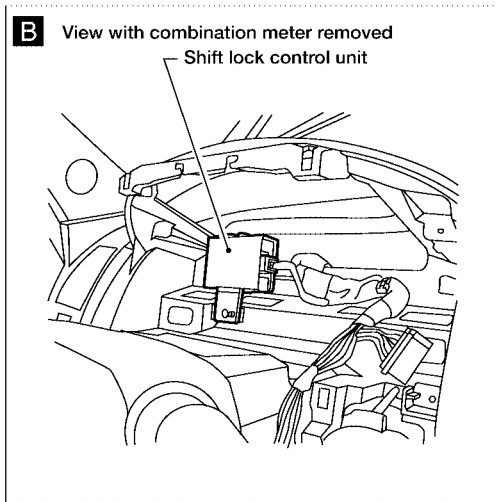


A Dash side LH



WKIA0125E

ELECTRICAL UNITS LOCATION



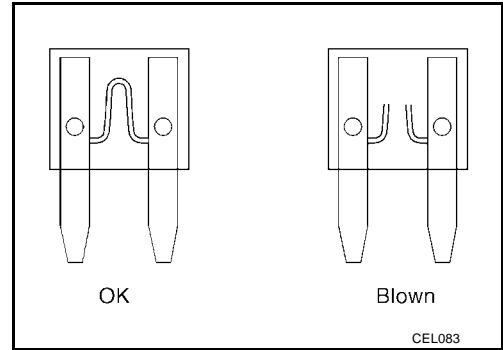
WKIA0131E

ELECTRICAL UNITS LOCATION

Fuse

EKS003JJ

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



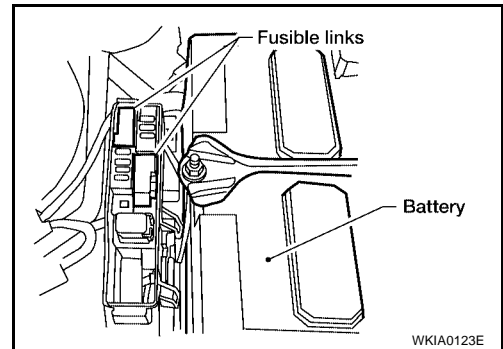
Fusible Link

EKS003JK

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

CAUTION:

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



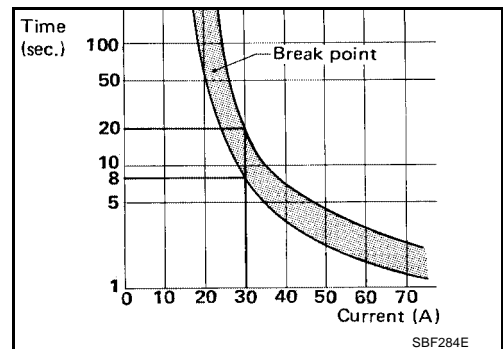
Circuit Breaker (Built Into BCM)

EKS003JL

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

A circuit breaker is used for the following systems:

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



A
B
C
D
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PG
L
M

HARNESS CONNECTOR

PFP:B4341

EKS003JM

HARNESS CONNECTOR

Description

HARNESS CONNECTOR (TAB-LOCKING TYPE)

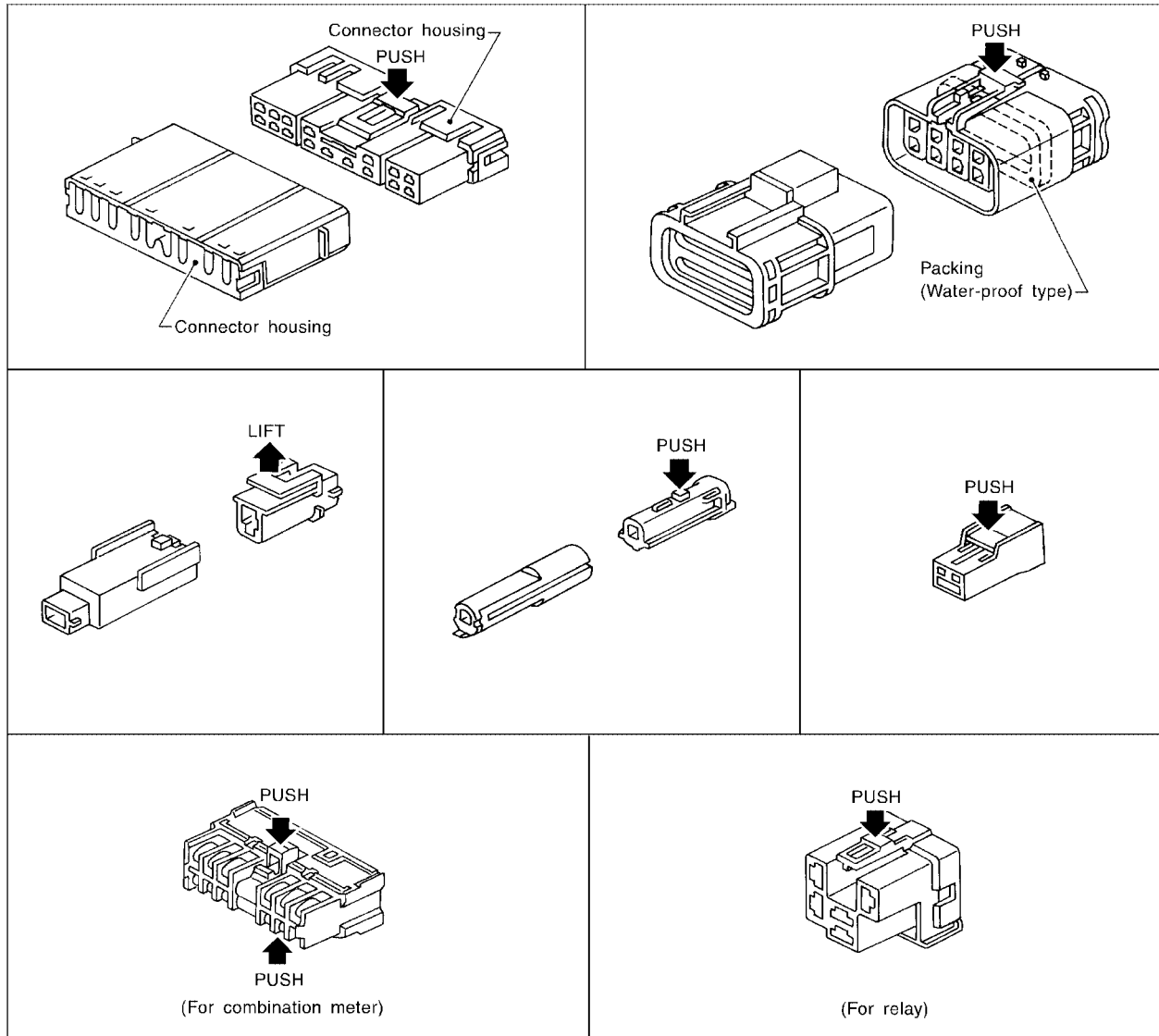
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

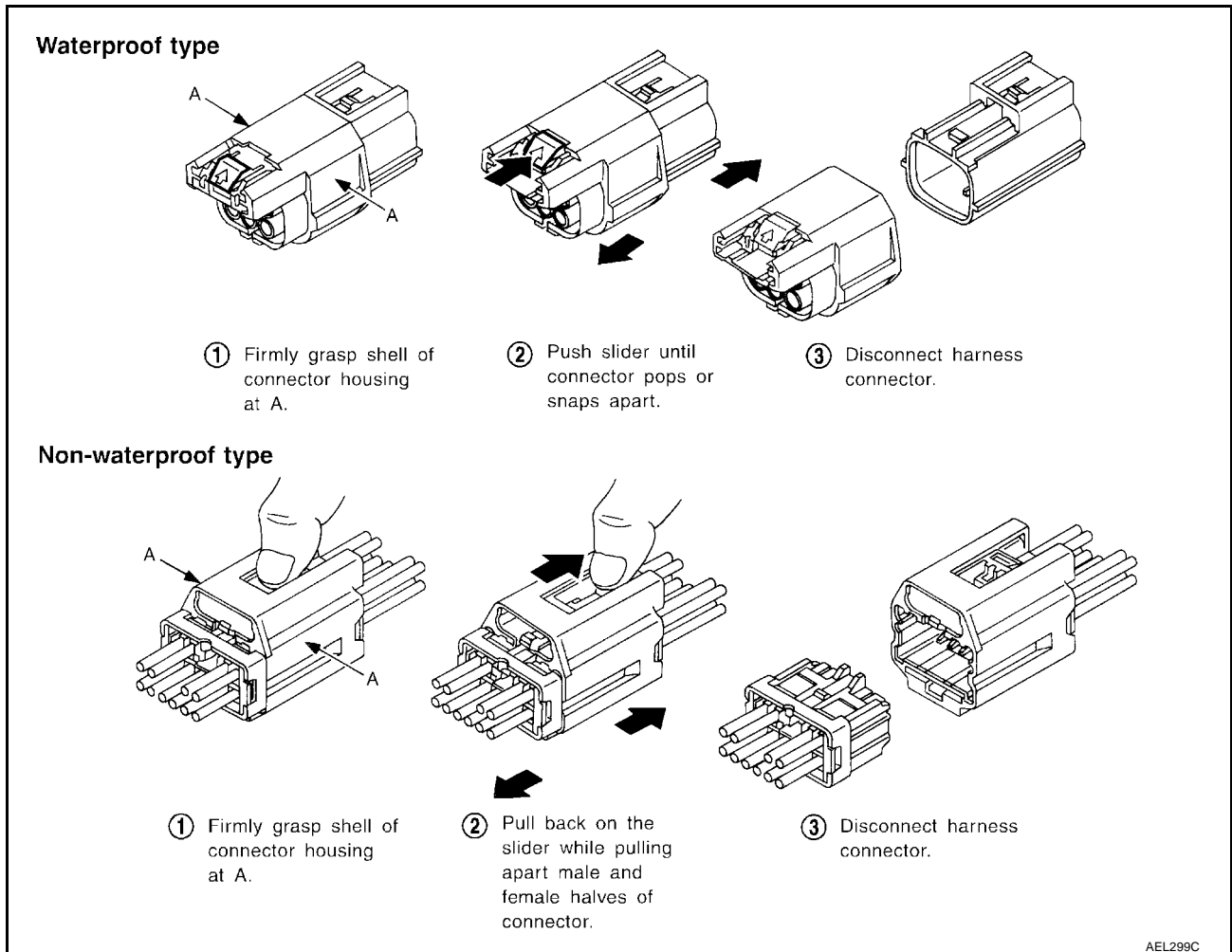
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]



A
B
C
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J
L
M

PG

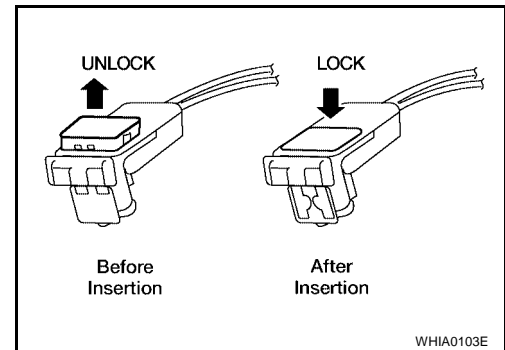
HARNESS CONNECTOR

HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

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

CAUTION:

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



JOINT CONNECTOR (J/C)

JOINT CONNECTOR (J/C)

Terminal Arrangement

PF P:B4341

EKS003JN

A

B

C

D

E

F

G

H

I

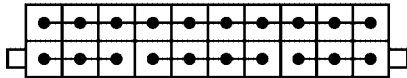
J

PG

L

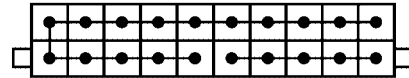
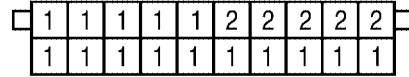
M

Joint connector-1 (M16)



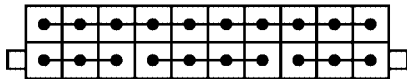
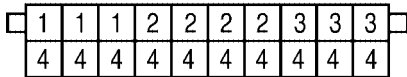
(Brown)

Joint connector-2 (M17)



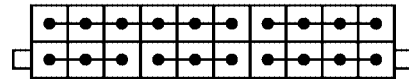
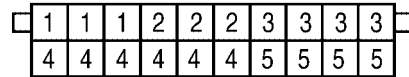
(Pink)

Joint connector-3 (M66)



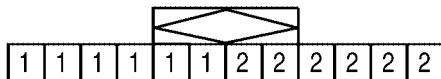
(Brown)

Joint connector-7 (B37)



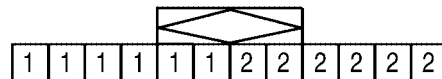
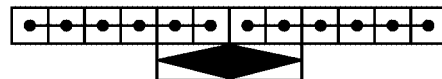
(Black)

Joint connector-4 (F51)



(Blue)

Joint connector-5 (F52)



(Blue)

WKIA0126E

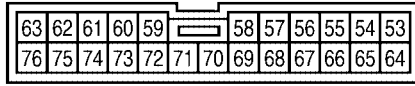
ELECTRICAL UNITS

PFP:23710

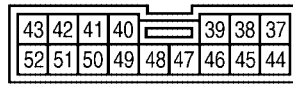
EKS003JO

ELECTRICAL UNITS Terminal Arrangement

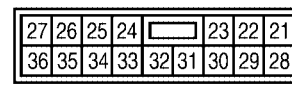
BCM (BODY CONTROL MODULE)



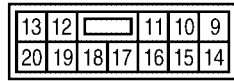
(M18)



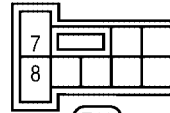
(M19)



(M20)



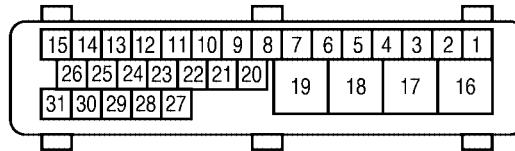
(M21)



(E39)



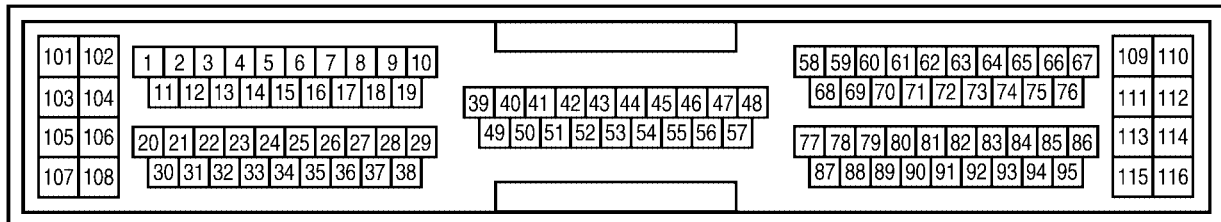
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)



(E125)



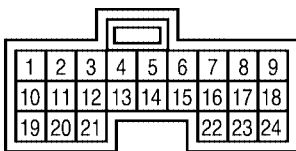
ECM



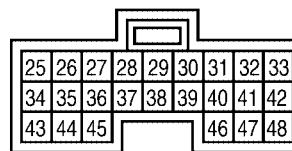
(F54)



TCM (TRANSMISSION CONTROL MODULE)



(F56)



(F57)



WKIA0127E

STANDARDIZED RELAY

PFP:25230

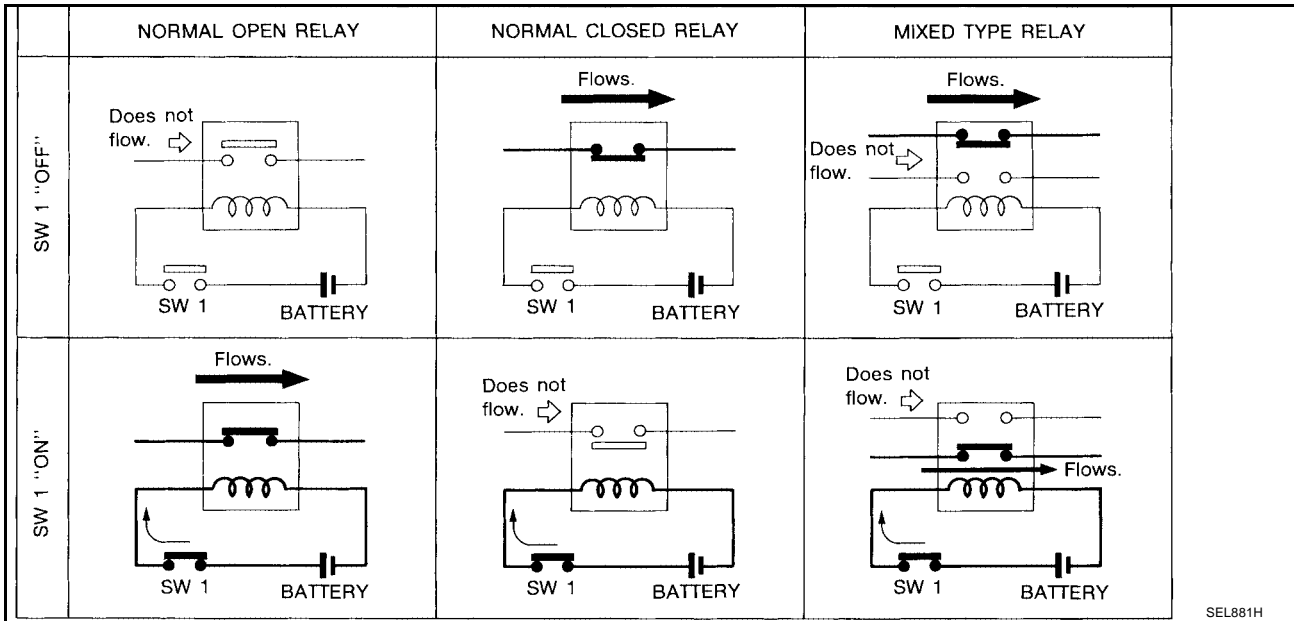
EKS003JQ

STANDARDIZED RELAY

Description

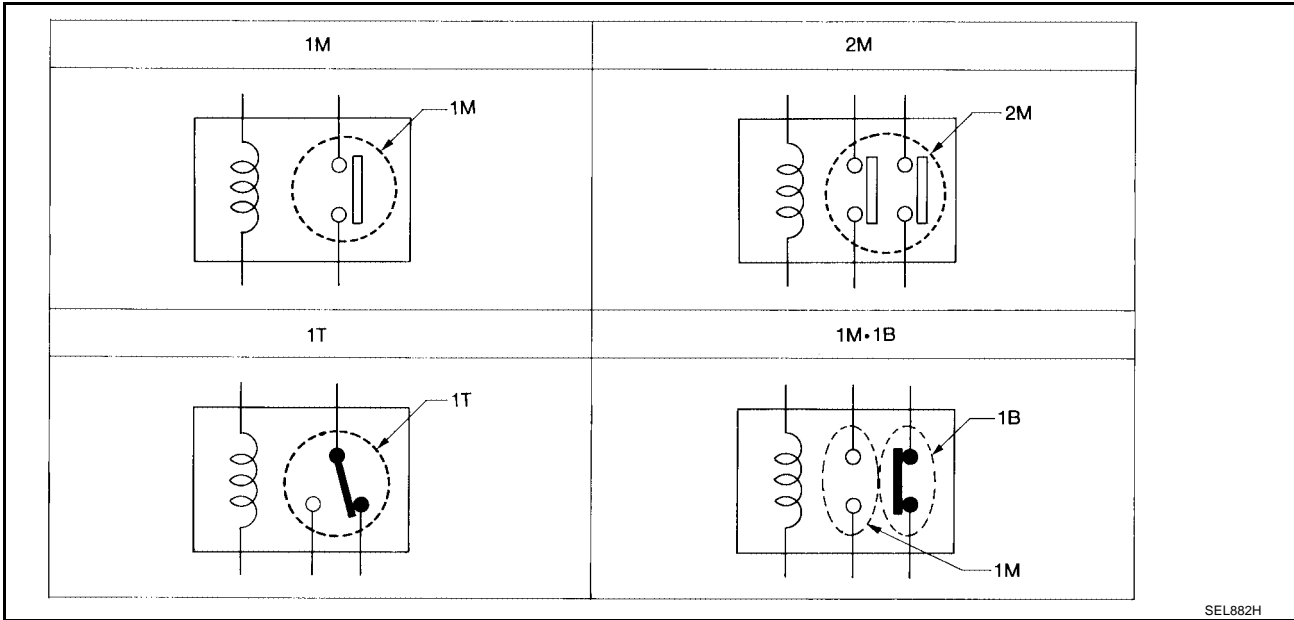
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



SEL881H

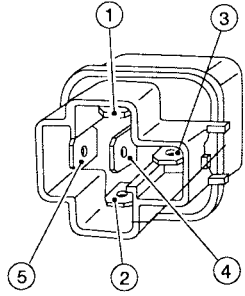
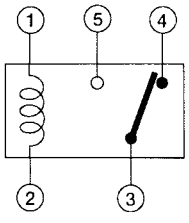
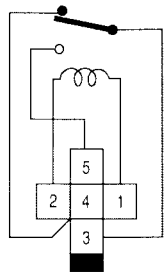
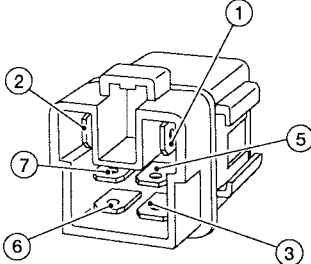
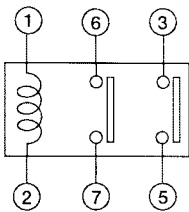
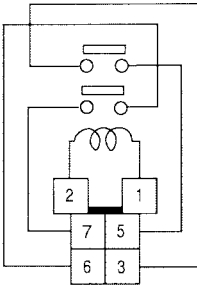
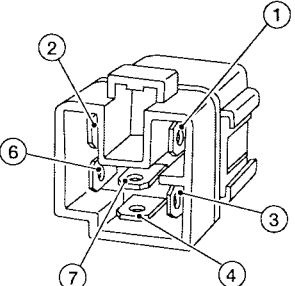
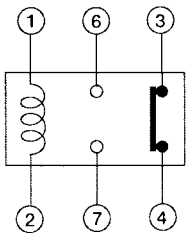
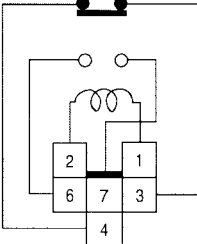
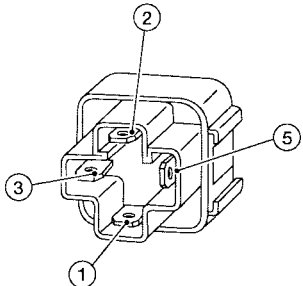
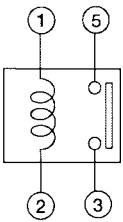
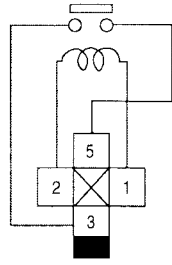
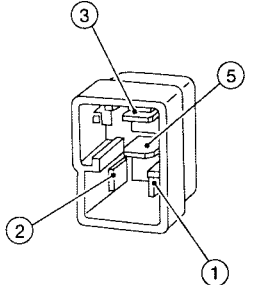
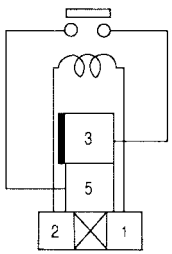
TYPE OF STANDARDIZED RELAYS



SEL882H

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

STANDARDIZED RELAY

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

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

LEL638

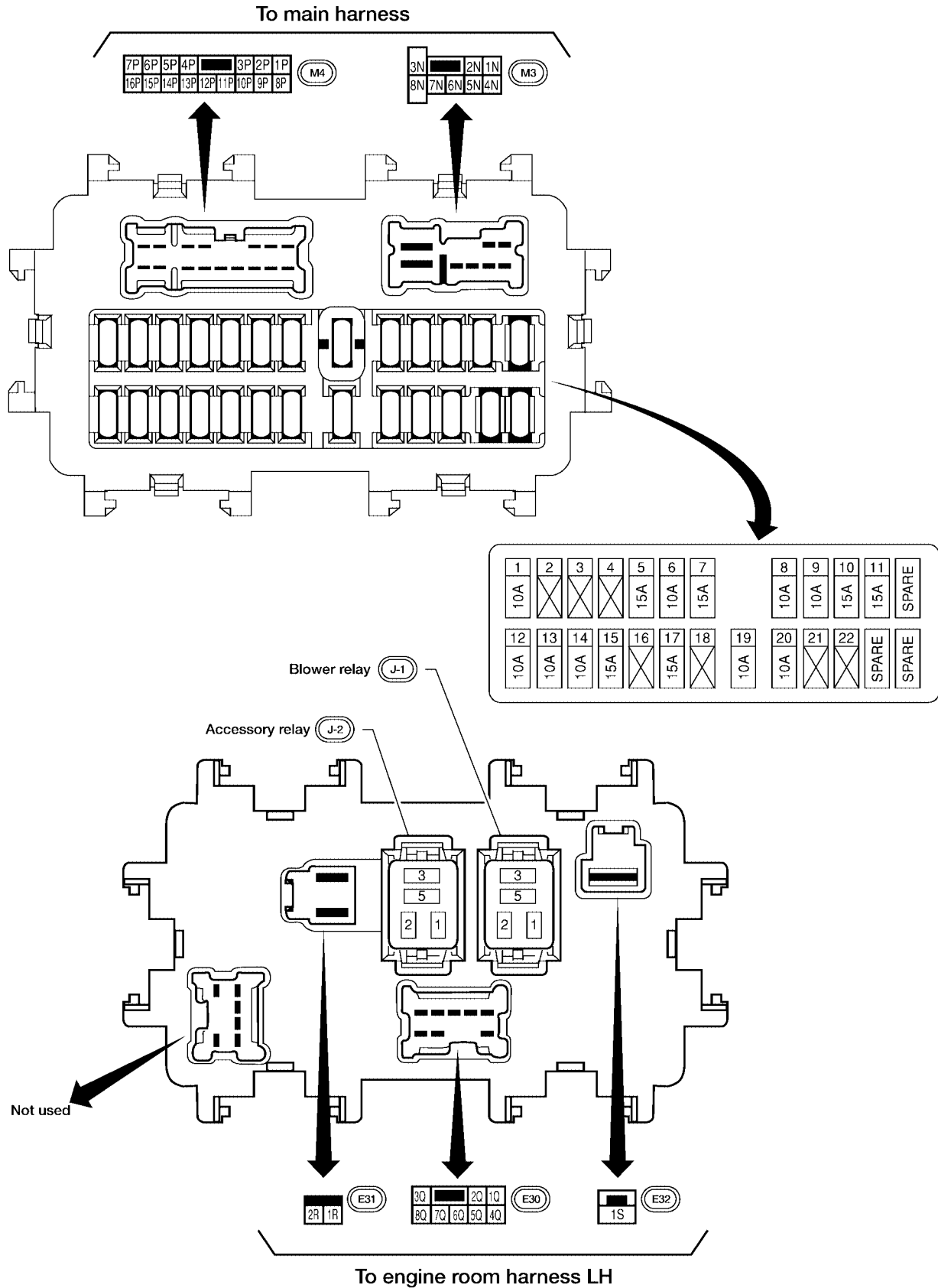
FUSE BLOCK-JUNCTION BOX(J/B)

PF24350

EKS003JR

FUSE BLOCK-JUNCTION BOX(J/B)

Terminal Arrangement



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

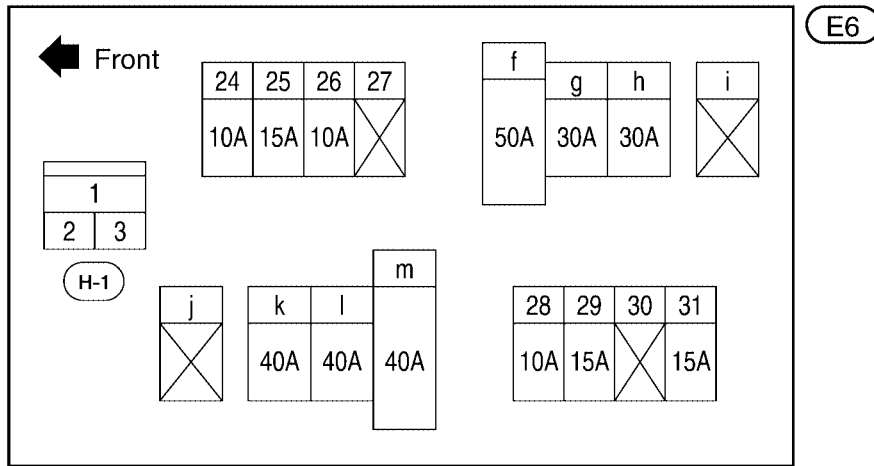
FUSE AND FUSIBLE LINK BOX

FUSE AND FUSIBLE LINK BOX

PF24381

Terminal Arrangement

EKS003JS



24 - 31: FUSE f - m: FUSIBLE LINK