

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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# BATTERY

< BASIC INSPECTION >

## BASIC INSPECTION

### BATTERY

#### How to Handle Battery

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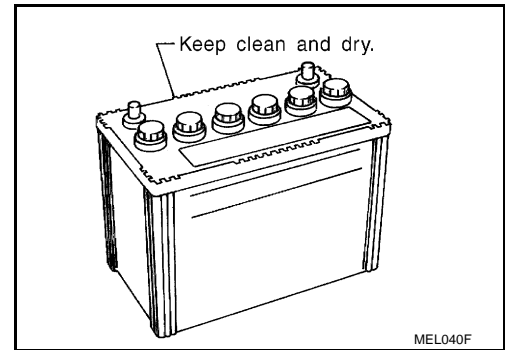
#### CAUTION:

- If it becomes necessary to start the engine with a booster battery and jumper cables, use a 12-volt booster battery.
- After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.
- Never add distilled water through the hole used to check specific gravity.

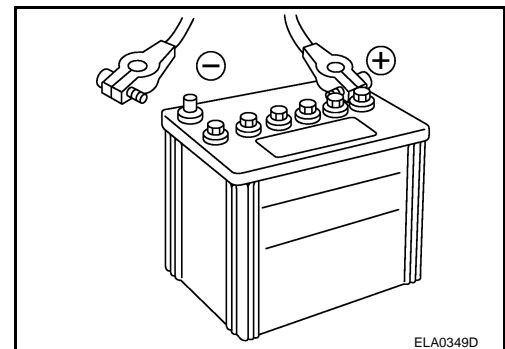
#### METHODS OF PREVENTING OVER-DISCHARGE

The following precautions must be taken to prevent over-discharging a battery.

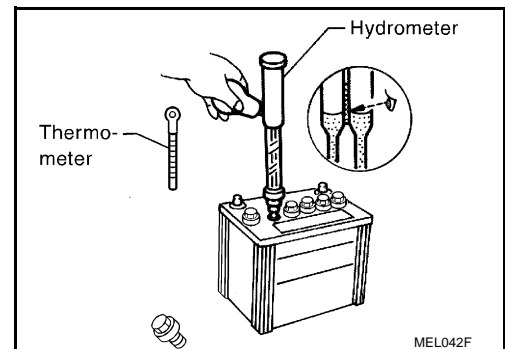
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level. This also applies to batteries designated as "low maintenance" and "maintenance-free".



- When the vehicle is not going to be used over a long period of time, disconnect the battery cable from the negative terminal. (If the vehicle has an extended storage switch, turn it off.)



- Check the charge condition of the battery. Periodically check the specific gravity of the electrolyte. Keep a close check on charge condition to prevent over-discharge.



#### CHECKING ELECTROLYTE LEVEL

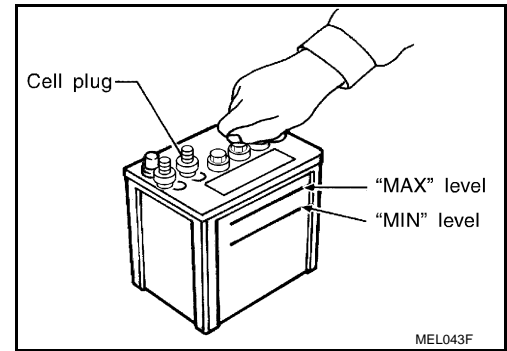
#### WARNING:

Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.

# BATTERY

## < BASIC INSPECTION >

- Remove the cell plug using a suitable tool.
- Add distilled water up to the MAX level.

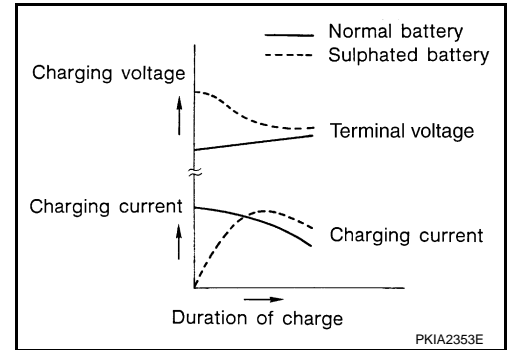


### Sulphation

**A battery will be completely discharged if it is left unattended for a long time and the specific gravity will become less than 1.100. This may result in sulphation on the cell plates.**

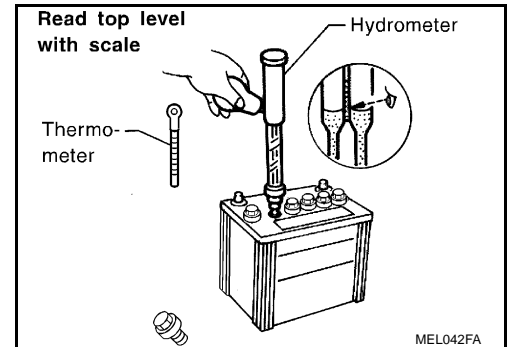
**To determine if a battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.**

**A sulphated battery may sometimes be brought back into service by means of a long, slow charge, 12 hours or more, followed by a battery capacity test.**



### SPECIFIC GRAVITY CHECK

1. Read hydrometer and thermometer indications at eye level.
2. Use the chart below to correct your hydrometer reading according to electrolyte temperature.



### Hydrometer Temperature Correction

Battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
71 (160)	0.032
66 (150)	0.028
60 (140)	0.024
54 (130)	0.020
49 (120)	0.016
43 (110)	0.012
38 (100)	0.008
32 (90)	0.004
27 (80)	0
21 (70)	-0.004
16 (60)	-0.008
10 (50)	-0.012
4 (40)	-0.016
-1 (30)	-0.020
-7 (20)	-0.024

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# BATTERY

## < BASIC INSPECTION >

Battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
-12 (10)	-0.028
-18 (0)	-0.032

Corrected specific gravity	Approximate charge condition
1.260 - 1.280	Fully charged
1.230 - 1.250	3/4 charged
1.200 - 1.220	1/2 charged
1.170 - 1.190	1/4 charged
1.140 - 1.160	Almost discharged
1.110 - 1.130	Completely discharged

## CHARGING THE BATTERY

### CAUTION:

- Never “quick charge” a fully discharged battery.
- Keep the battery away from open flame while it is being charged.
- When connecting the charger, connect the leads first, then turn on the charger. Never turn on the charger first, as this may cause a spark.
- If battery electrolyte temperature rises above 55 °C (131 °F), stop charging. Always charge battery at a temperature below 55 °C (131 °F).

### Charging Rates

Amps	Time
50	1 hour
25	2 hours
10	5 hours
5	10 hours

Do not charge at more than 50 ampere rate.

### NOTE:

The ammeter reading on your battery charger will automatically decrease as the battery charges. This indicates that the voltage of the battery is increasing normally as the state of charge improves. The charging amps indicated above refer to initial charge rate.

- If, after charging, the specific gravity of any two cells varies more than 0.050, the battery should be replaced.

## Work Flow

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## TROUBLE DIAGNOSIS WITH BATTERY SERVICE CENTER

For battery testing, use Battery Service Center (J-48087). For details and operating instructions, refer to Technical Service Bulletin and/or Battery Service Center User Guide.

# POWER SUPPLY ROUTING CIRCUIT

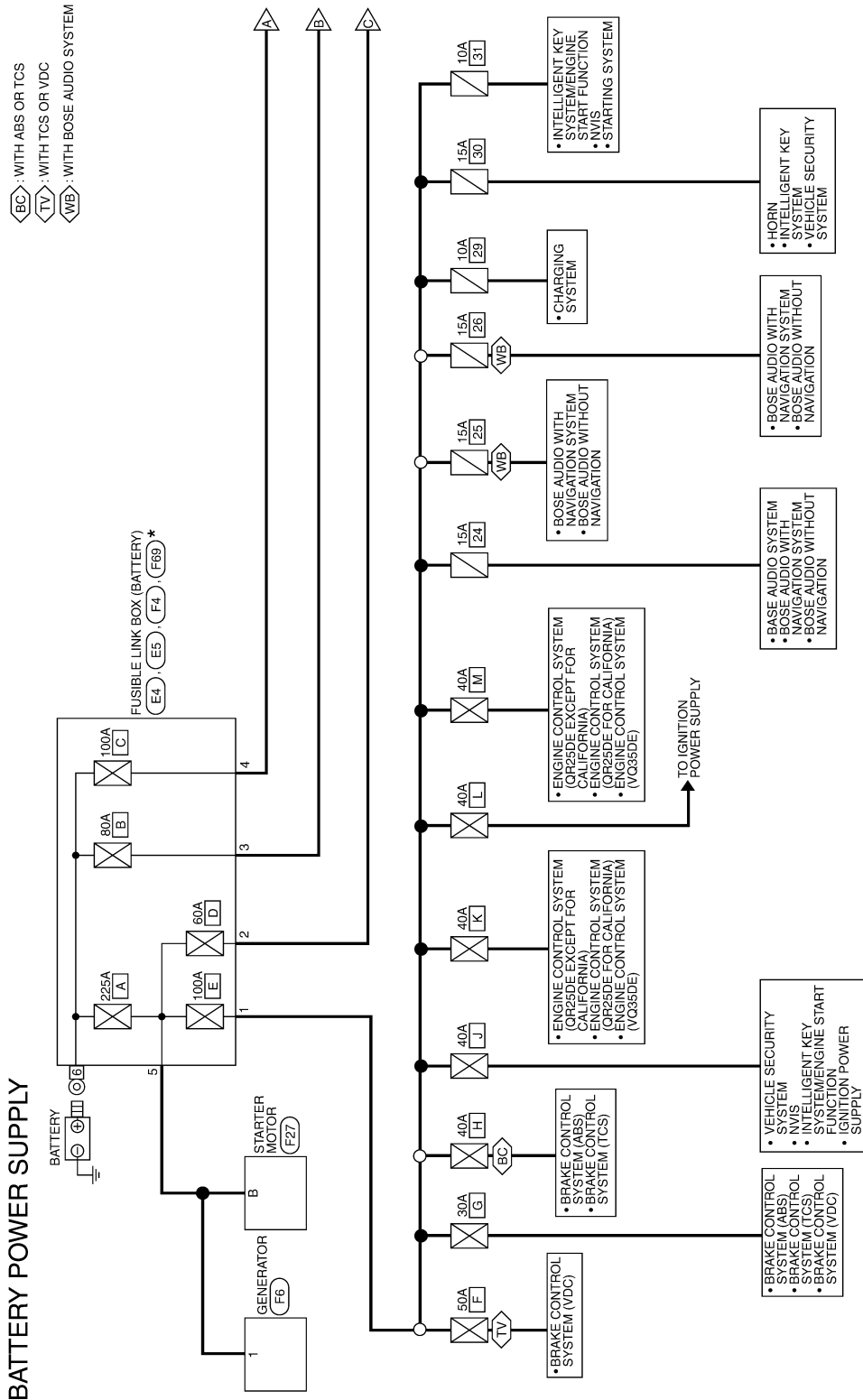
< COMPONENT DIAGNOSIS >

## COMPONENT DIAGNOSIS

### POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram —Battery Power Supply—

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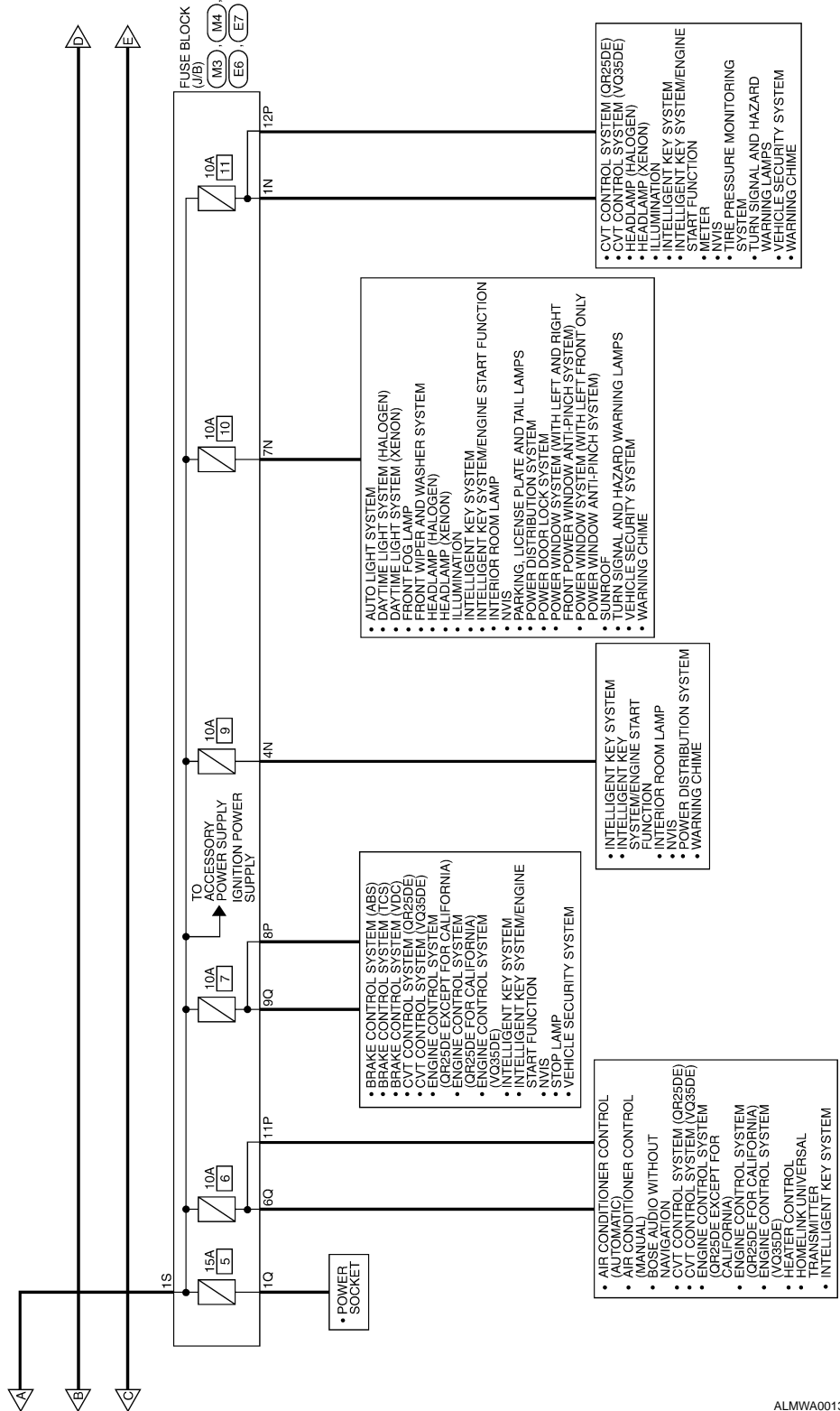


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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

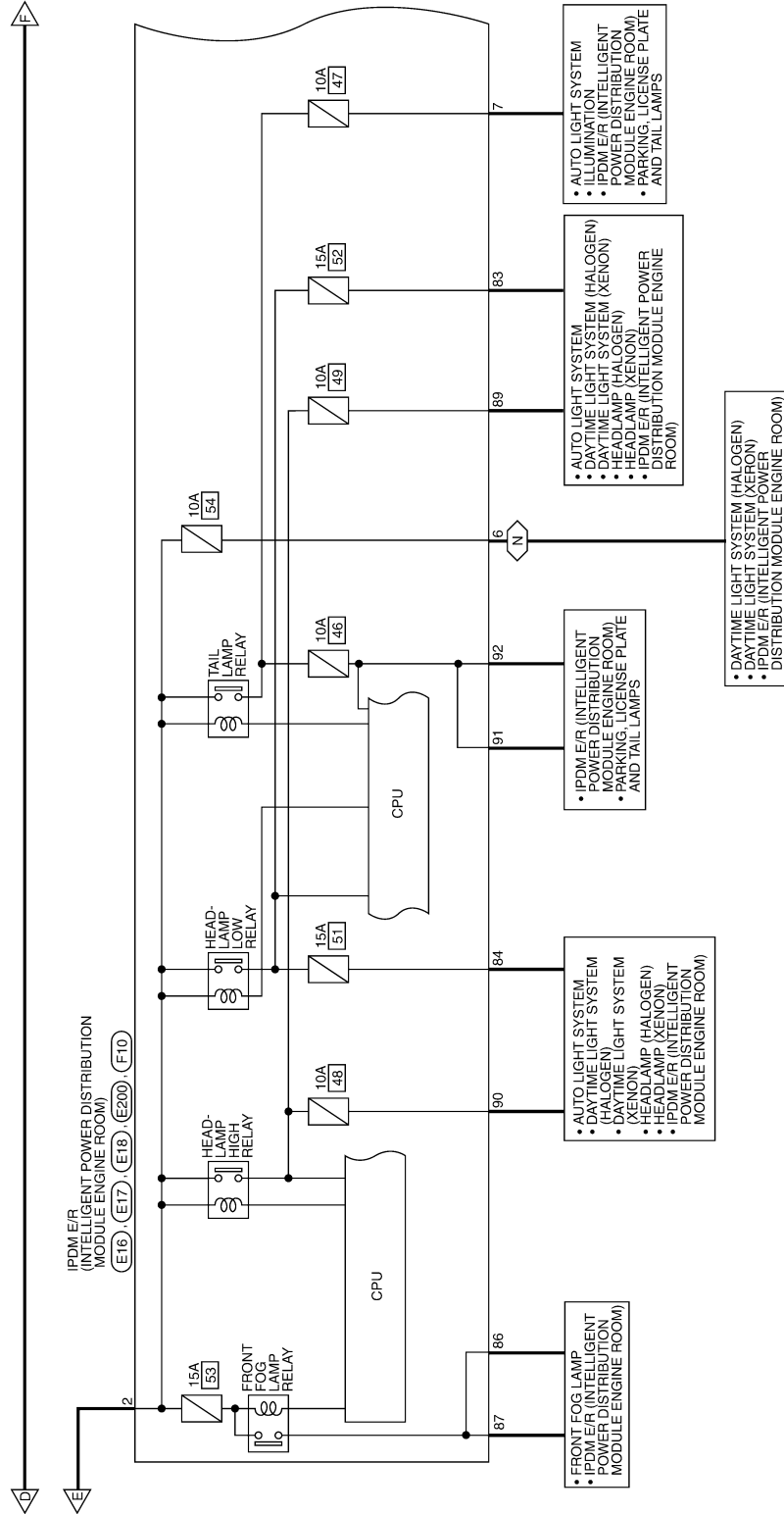


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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

N : CANADA



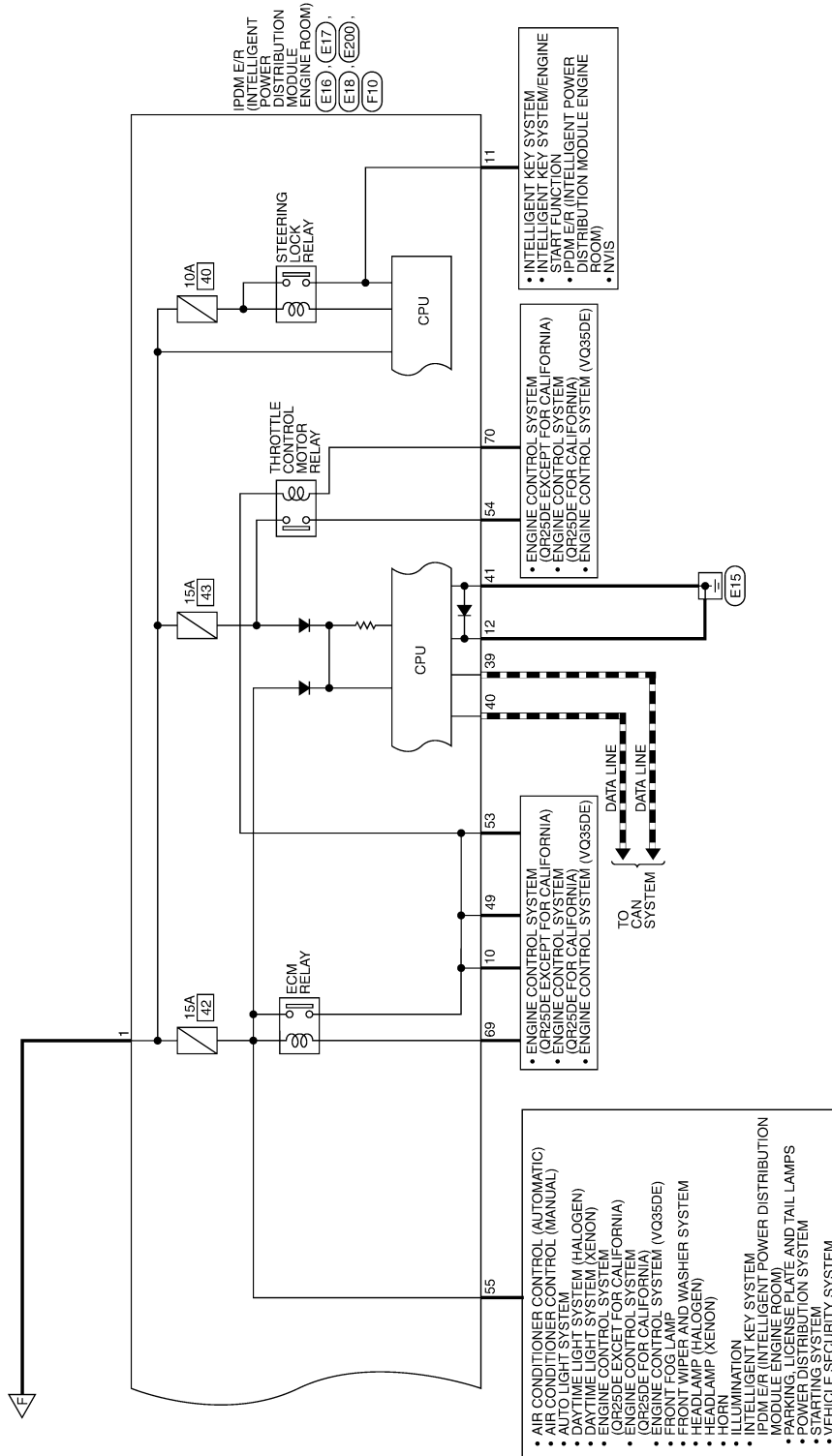
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

--- : DATA LINE



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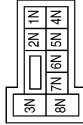


# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

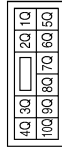
## BATTERY POWER SUPPLY CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1N	W/L	—
4N	G/Y	—
7N	Y/R	—

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1Q	R/W	—
6Q	Y/R	—
9Q	R/W	—

Connector No.	E4
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
1	B/W	—
2	B/Y	—

Connector No.	E5
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
3	R	—
4	W	—

Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8P	Y/R	—
11P	Y/B	—
12P	L/R	—

Connector No.	E7
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1S	W	—

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# POWER SUPPLY ROUTING CIRCUIT

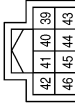
## < COMPONENT DIAGNOSIS >

Connector No.	E16
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



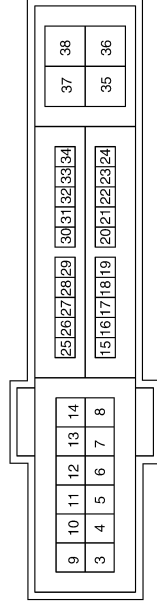
Terminal No.	Color of Wire	Signal Name
1	R	F/L_MAIN
2	B/Y	F/L_USM

Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
39	P	CAN-L
40	L	CAN-H
41	B	S-GND

Connector No.	E18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



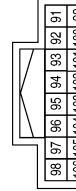
Terminal No.	Color of Wire	Signal Name
6	SB	DTRL
7	R/L	TAIL/ILLUMI
10	R/B	ECM_VB
11	P/L	ESCL
12	B	P-GND

Connector No.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
83	R/Y	HEADLAMP_LO_RH
84	L	HEADLAMP_LO_LH
86	W/R	FR_FOG_LAMP_RH
87	L/Y	FR_FOG_LAMP_LH
89	L/W	HEADLAMP_HI_RH
90	G	HEADLAMP_HI_LH

Connector No.	E201
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

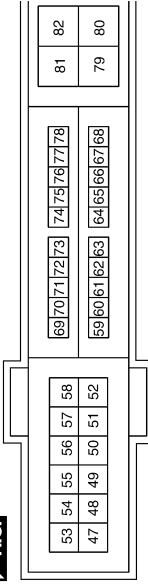


Terminal No.	Color of Wire	Signal Name
91	LG/R	CLEARANCE_RH
92	LG/B	CLEARANCE_LH

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	F10
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
49	R/B	IGN_SOL (WITH VQ35DE)
53	R/B	IGN_SOL (WITH VQ35DE)
53	B/R	ENG_SOL (WITH VQ35DE)
54	G/W	ETC
55	W/L	ECM_BAT
69	W/B	SSOF
70	O	MOTRLY

Connector No.	F6
Connector Name	GENERATOR
Connector Color	—



Terminal No.	Color of Wire	Signal Name
1	B/R	BATT

Connector No.	F4
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	—



Terminal No.	Color of Wire	Signal Name
5	B/R	—

Connector No.	F27
Connector Name	STARTER MOTOR
Connector Color	—



Terminal No.	Color of Wire	Signal Name
B	B/R	BATT

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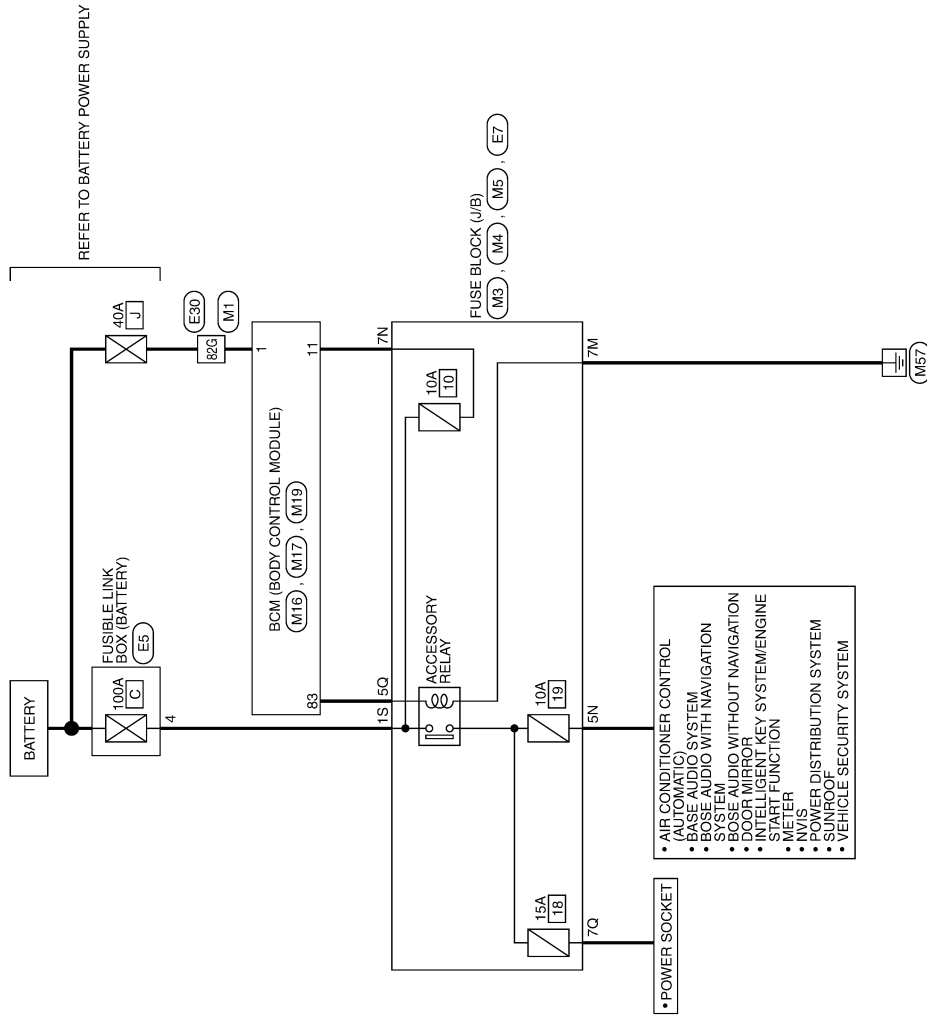
# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

## Wiring Diagram —Accessory Power Supply—

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### ACCESSORY POWER SUPPLY



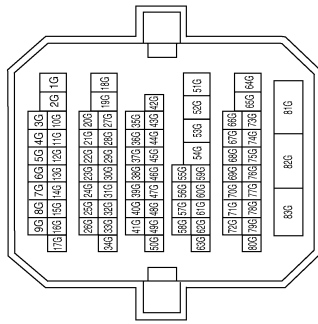
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

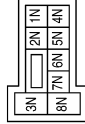
## ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



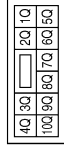
Terminal No.	Color of Wire	Signal Name
82G	W/B	—

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



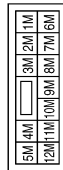
Terminal No.	Color of Wire	Signal Name
5N	V/Y	—
7N	Y/R	—

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5Q	L	—
7Q	R/B	—

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
7M	B	—

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
11	Y/R	BAT_BCM_FUSE

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	E7
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



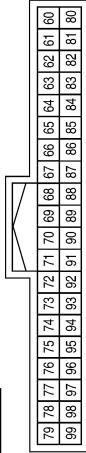
Terminal No.	1S	Color of Wire	W	Signal Name	—
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Connector No.	E5
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



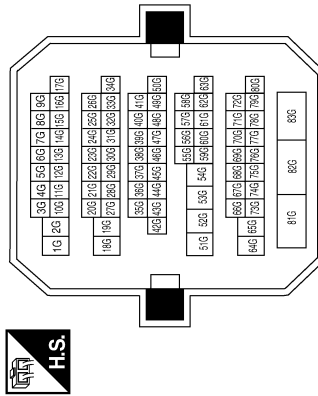
Terminal No.	4	Color of Wire	W	Signal Name	—
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Connector No.	M19
Connector Name	BCM (Body Control Module)
Connector Color	BLACK



Terminal No.	83	Color of Wire	L	Signal Name	ACC_CONT
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Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	82G	Color of Wire	W/B	Signal Name	—
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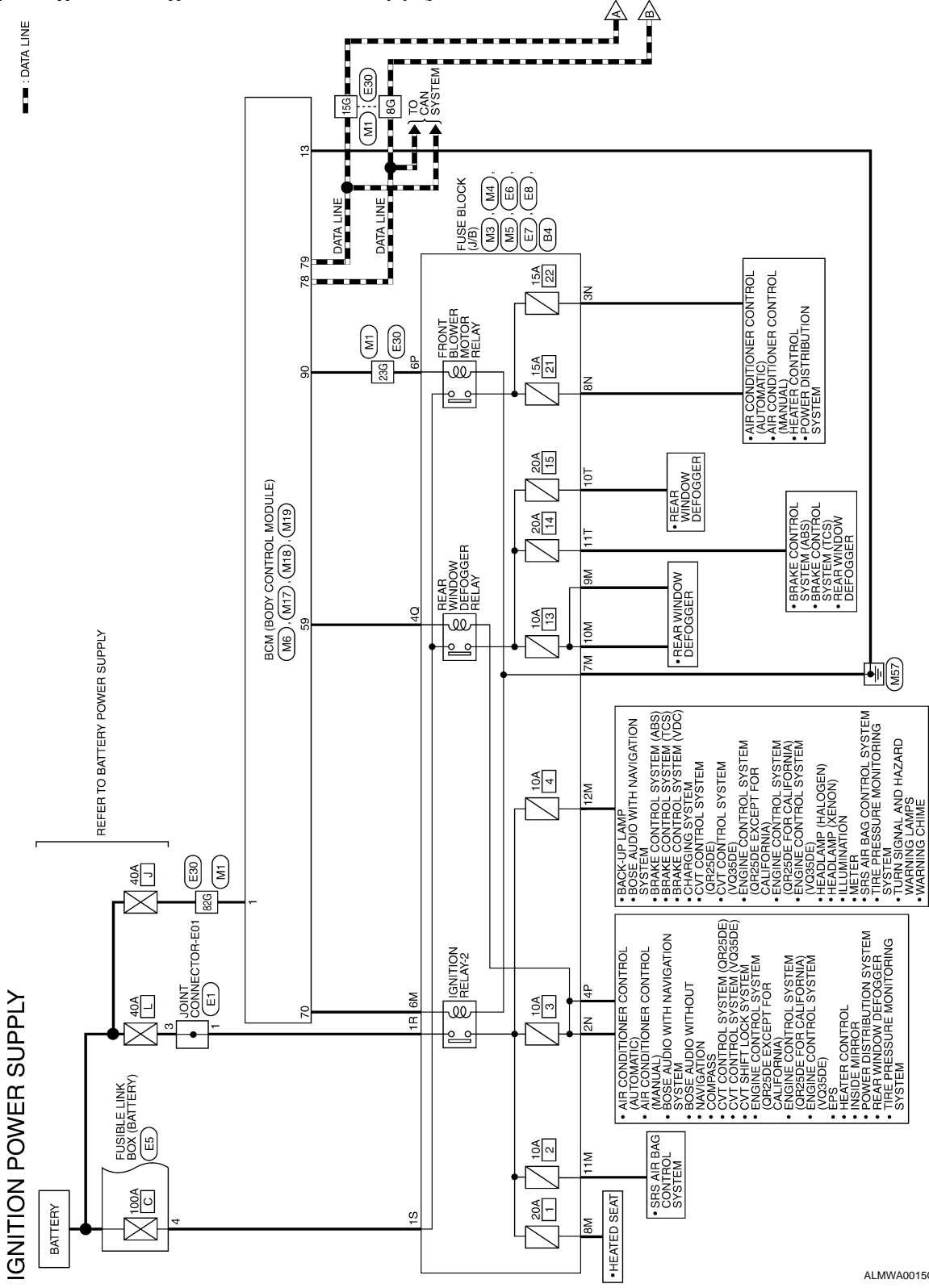
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

## Wiring Diagram — Ignition Power Supply —

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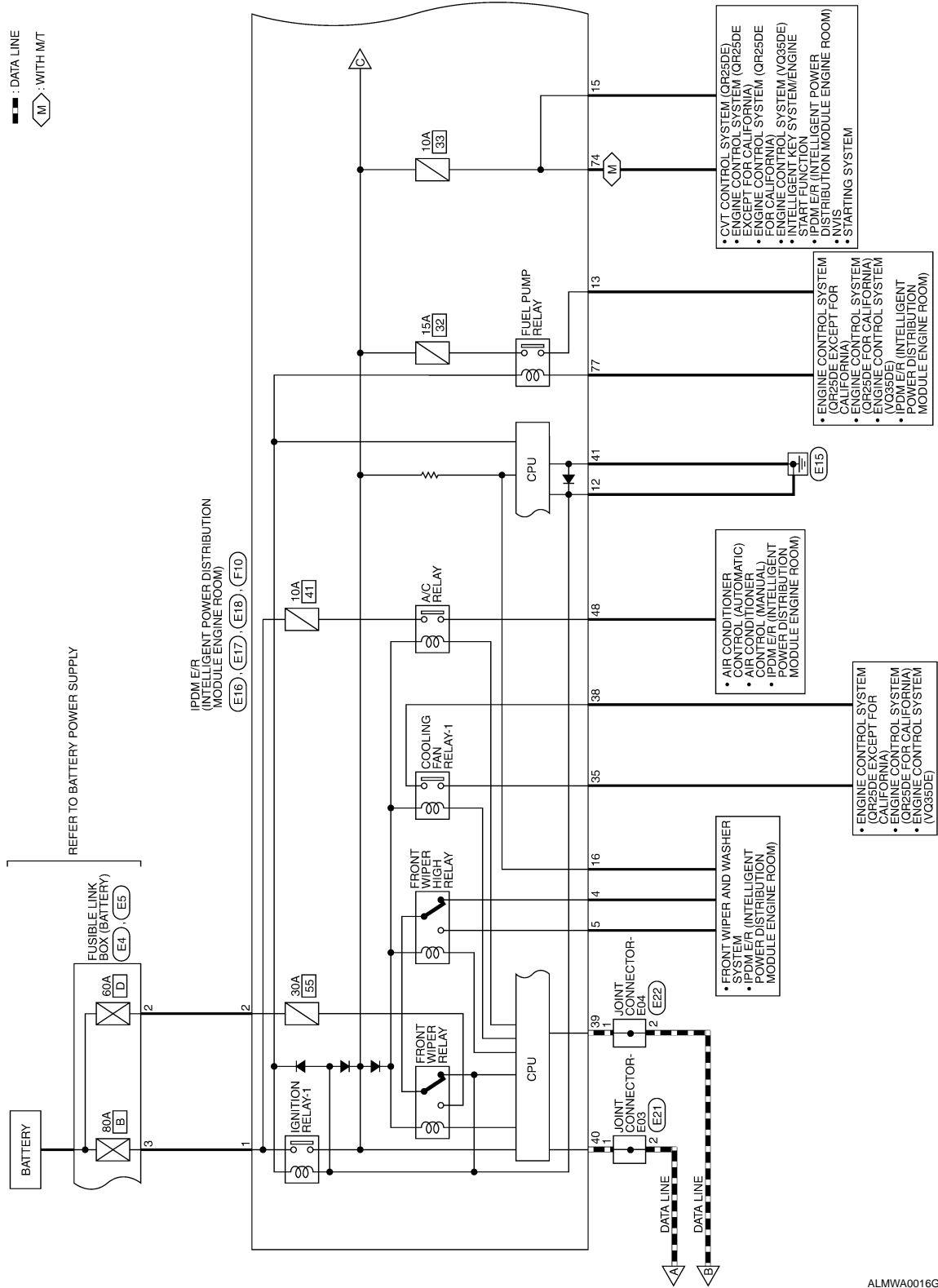


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# POWER SUPPLY ROUTING CIRCUIT

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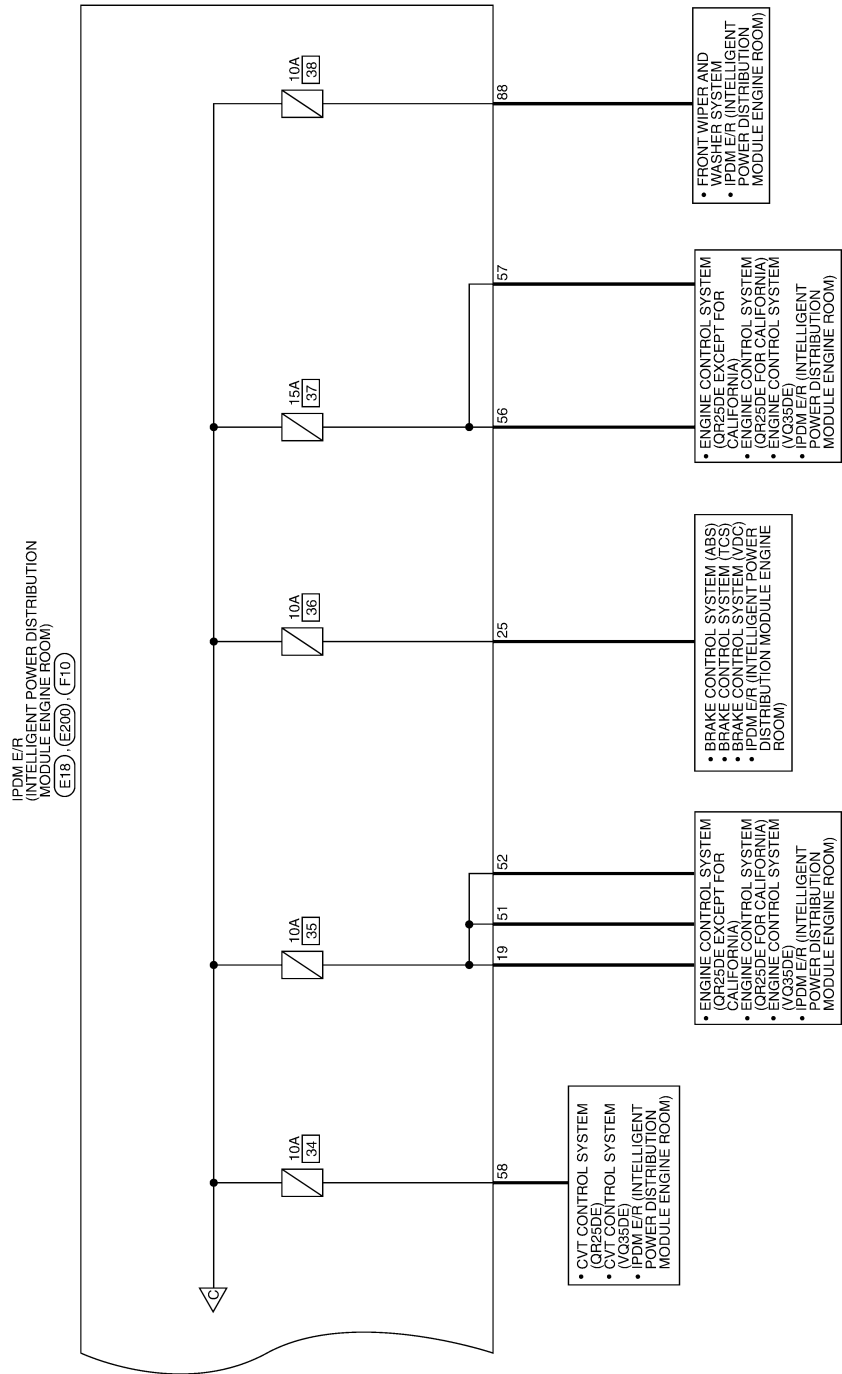


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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >



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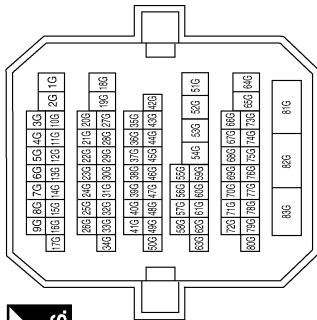
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

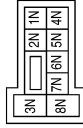
## IGNITION POWER SUPPLY CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Color	WHITE



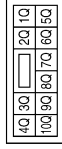
Terminal No.	Color of Wire	Signal Name
8G	P	—
15G	L	—
23G	Y	—
82G	W/B	—

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2N	G	—
3N	W/L	—
8N	W/L	—

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4Q	G/R	—

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
6M	R/B	—
7M	B	—
8M	G/R	—
9M	GR	—
10M	L/Y	—
11M	R/L	—
12M	P	—

Connector No.	M16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK




Terminal No.	Color of Wire	Signal Name
1	W/B	BAT_POWER_F/L


# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE




4	5	6	7	8	9	10		
11	12	13	14	15	16	17	18	19




Terminal No.	Color of Wire	Signal Name
13	B	GND1

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN




39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21	20
59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40




Terminal No.	Color of Wire	Signal Name
59	G/R	REAR_DEFOGGER_RLY

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK




79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60
59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40




Terminal No.	Color of Wire	Signal Name
70	R/B	IGN_ELEC_CONT
78	P	CAN-L
79	L	CAN-H
90	Y	IGN2_CONT

Connector No.	E1
Connector Name	JOINT CONNECTOR-E01
Connector Color	WHITE




3	2	1
6	5	4




Terminal No.	Color of Wire	Signal Name
1	G	—
3	G	—

Connector No.	E4
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BROWN




1	2
---	---




Terminal No.	Color of Wire	Signal Name
2	B/Y	—

Connector No.	E5
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



3	4
---	---



Terminal No.	Color of Wire	Signal Name
3	R	—
4	W	—

ALMIA0047GB

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4P	G/R	—
6P	Y	—

Connector No.	E7
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1S	W	—

Connector No.	E8
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK



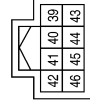
Terminal No.	Color of Wire	Signal Name
1R	G	—

Connector No.	E16
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



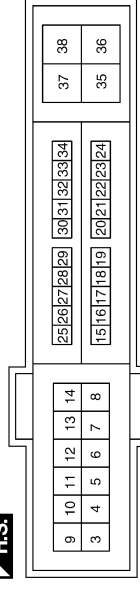
Terminal No.	Color of Wire	Signal Name
1	R	F/L_MAIN
2	B/Y	F/L_USM

Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
39	P	CAN-L
40	L	CAN-H
41	B	S-GND

Connector No.	E18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4	L/R	FR_WIPER_LO
5	L/B	FR_WIPER_HI
12	B	P-GND
13	W	FUEL_PUMP
15	G/W	START_IG-E/R
16	L/Y	WIPER_AUTOSTOP
19	L/Y	BCM_IGNSW
25	GR	ABS_ECU
35	L/B	MOTOR_FAN_LO
38	R/W	F/L_MOTOR_FAN

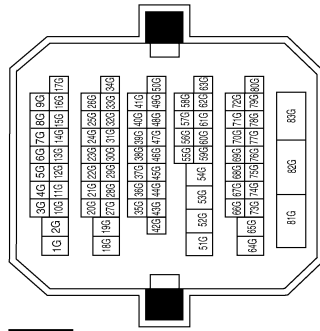
ALMIA0048GB

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

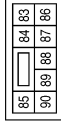
Fuse

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



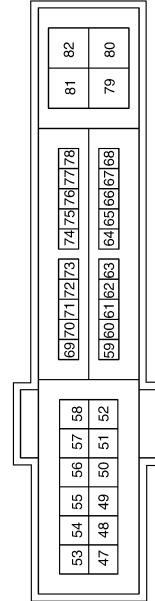
Terminal No.	Color of Wire	Signal Name
8G	P	—
15G	L	—
23G	—	—
82G	W/B	—

Connector No.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



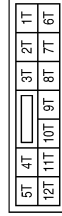
Terminal No.	Color of Wire	Signal Name
88	R/W	WASHER_MTR

Connector No.	F10
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
48	Y/R	A/C_COMP
51	LG	INJECTOR #1
52	Y/G	INJECTOR #2
56	R/Y	O2_SENS #1
57	O	O2_SENS #2
58	Y	AT_ECU
74	Y	START_IG-EGI
77	B/R	FPR

Connector No.	B4
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
10T	R	—
11T	R	—

ALMIA0049GB

INFOID:000000000994770

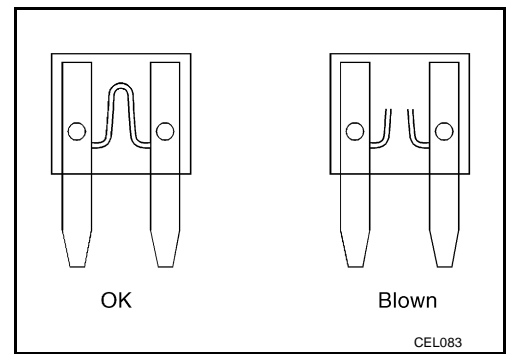
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PG

# POWER SUPPLY ROUTING CIRCUIT

## < COMPONENT DIAGNOSIS >

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



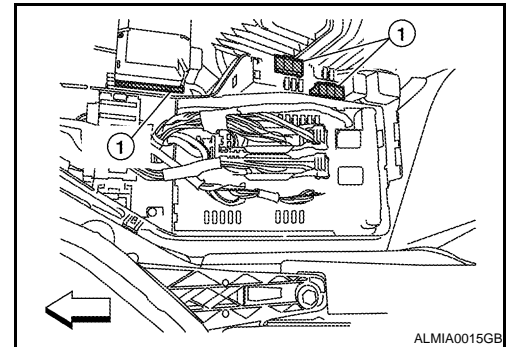
## Fusible Link

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.

1 : Fusible link

### CAUTION:

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



INFOID:000000000994771

# GROUND

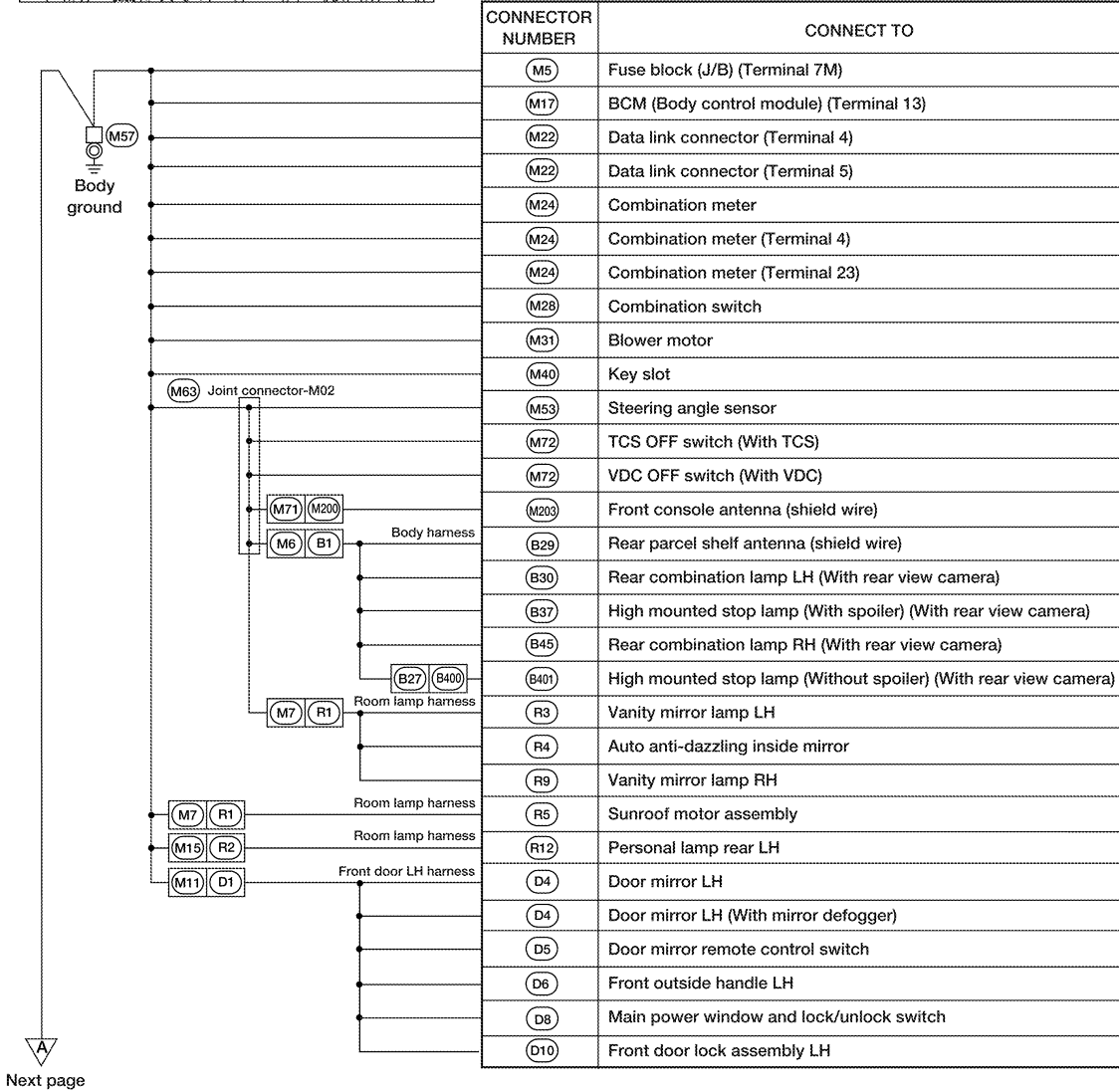
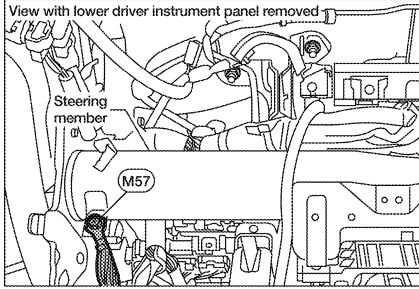
< COMPONENT DIAGNOSIS >

## GROUND

### Ground Distribution

INFOID:000000000994772

### MAIN HARNESS

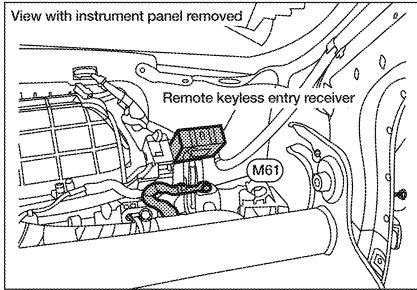


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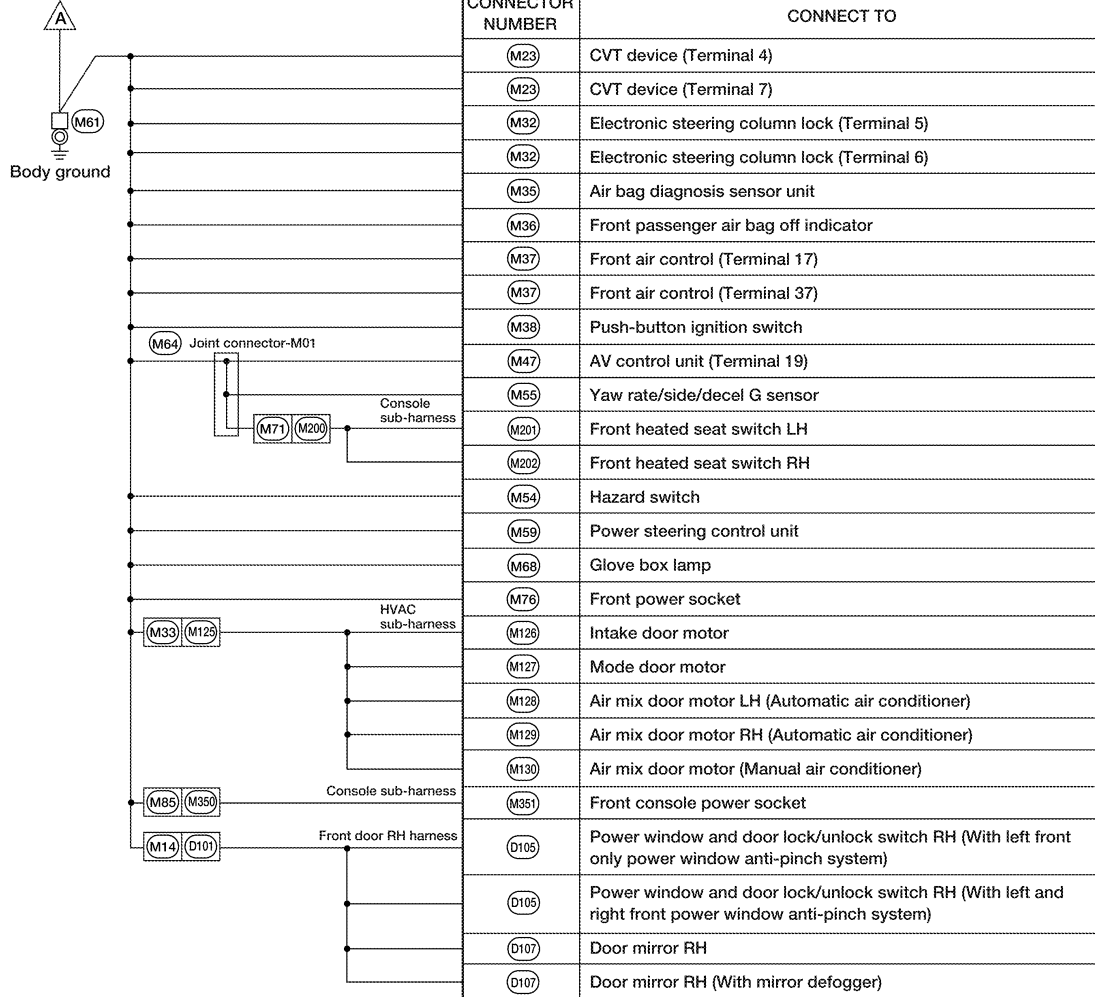
ALMIA0036GB

# GROUND

## < COMPONENT DIAGNOSIS >



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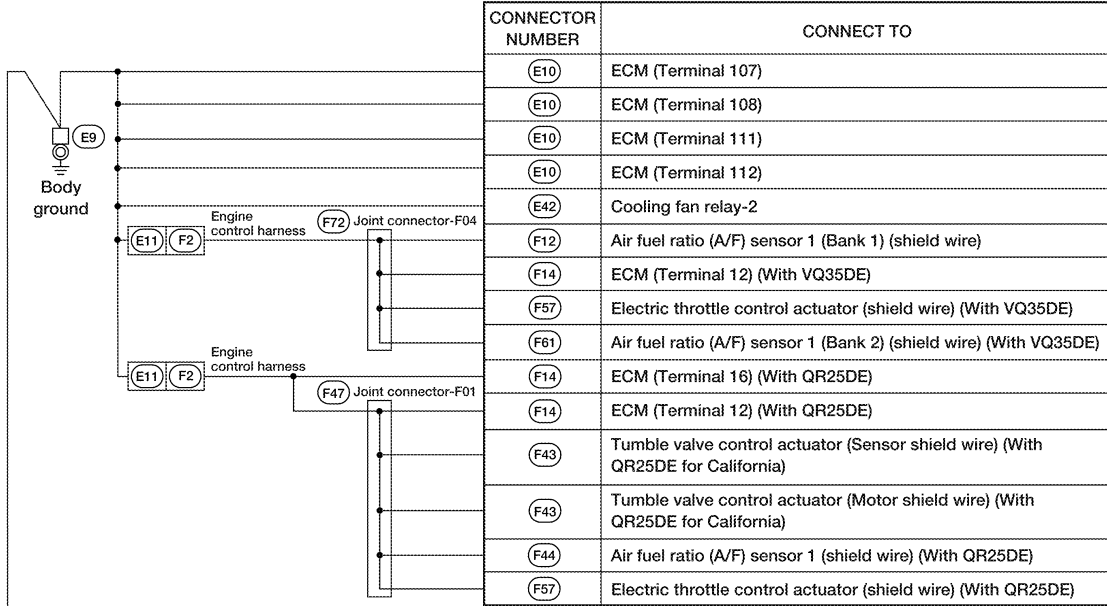
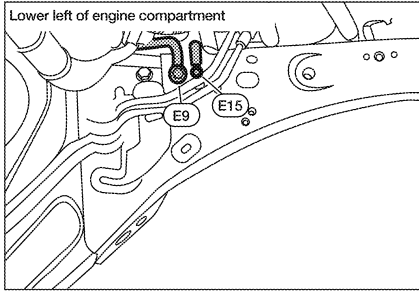
ALMIA0037GB



# GROUND

< COMPONENT DIAGNOSIS >

## ENGINE ROOM HARNESS



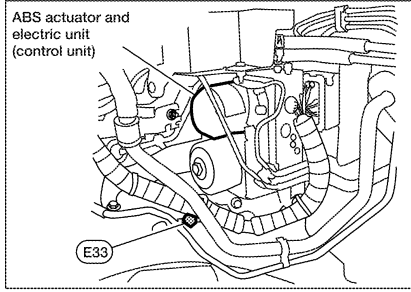
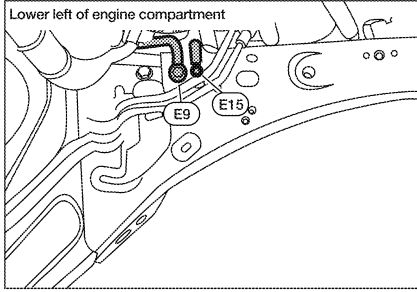
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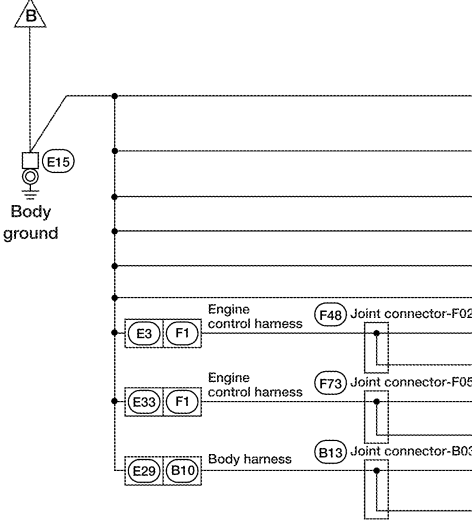
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# GROUND

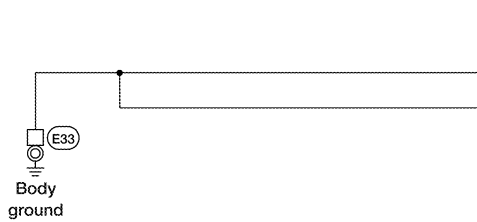
## < COMPONENT DIAGNOSIS >



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CONNECTOR NUMBER	CONNECT TO
(E17)	IPDM E/R (Intelligent power distribution module engine room) (Terminal 41)
(E18)	IPDM E/R (Intelligent power distribution module engine room) (Terminal 12)
(E24)	Brake fluid level switch
(E25)	Front wiper motor
(E43)	Cooling fan relay-3
(F3)	A/C compressor
(F46)	TCM (Transmission control module) (Terminal 5) (With QR25DE)
(F46)	TCM (Transmission control module) (Terminal 42) (With QR25DE)
(F46)	TCM (Transmission control module) (Terminal 5) (With VQ35DE)
(F46)	TCM (Transmission control module) (Terminal 42) (With VQ35DE)
(B17)	Condenser-1 (With rear view camera)
(B42)	Fuel level sensor unit and fuel pump (Fuel pump) (With rear view camera)

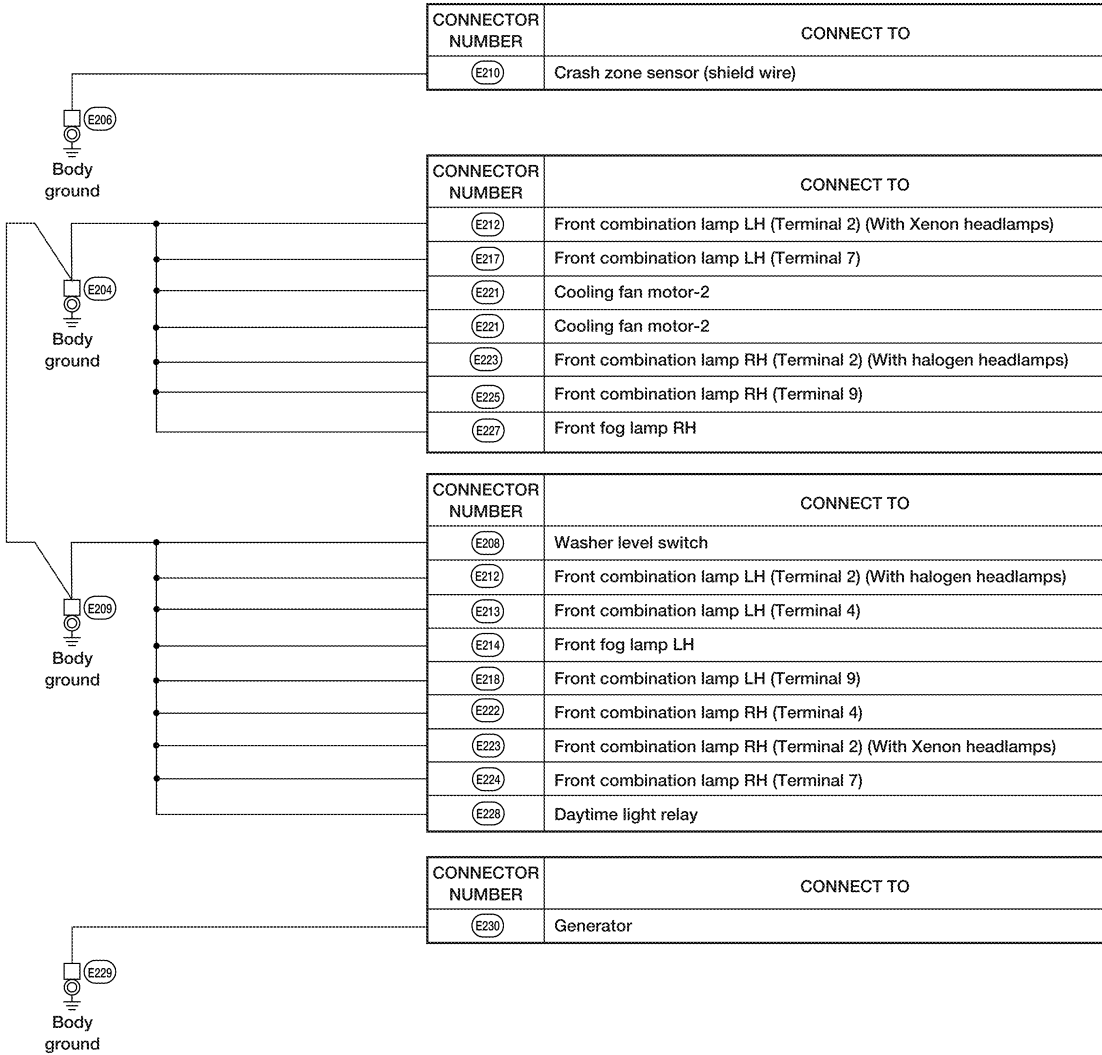
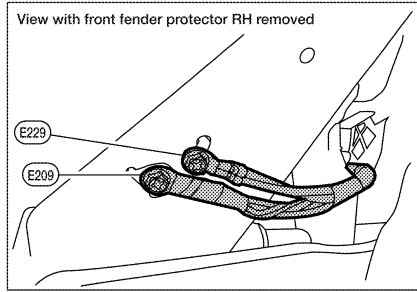
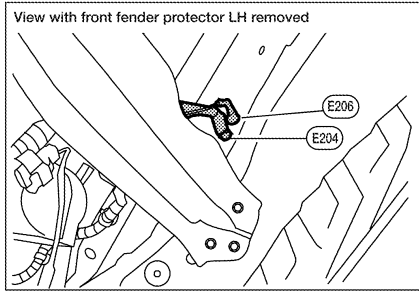


CONNECTOR NUMBER	CONNECT TO
(E26)	ABS actuator and electric unit (Control unit) (Terminal 1)
(E26)	ABS actuator and electric unit (Control unit) (Terminal 4)

ALMIA0058GB

# GROUND

## < COMPONENT DIAGNOSIS > FRONT END MODULE HARNESS

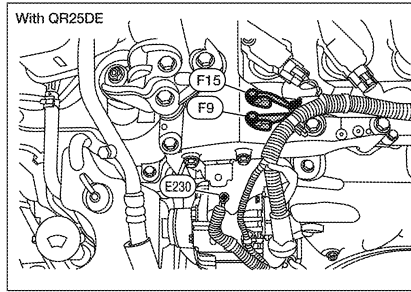
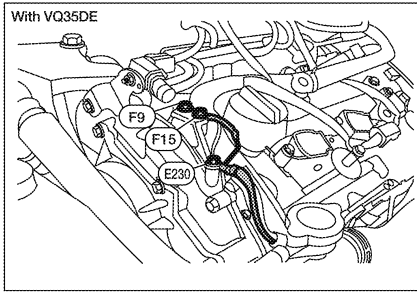


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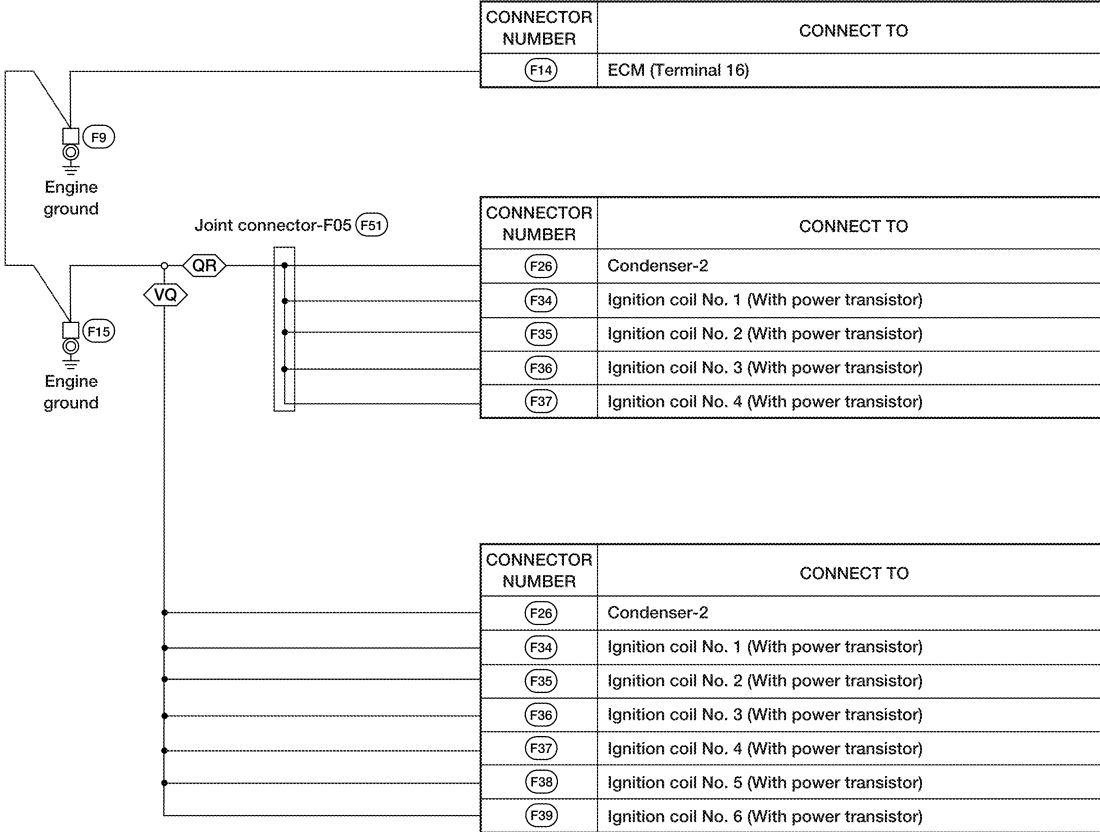
ALMIA0039GB

# GROUND

## < COMPONENT DIAGNOSIS > ENGINE CONTROL HARNESS



QR : With QR25DE  
VQ : With VQ35DE

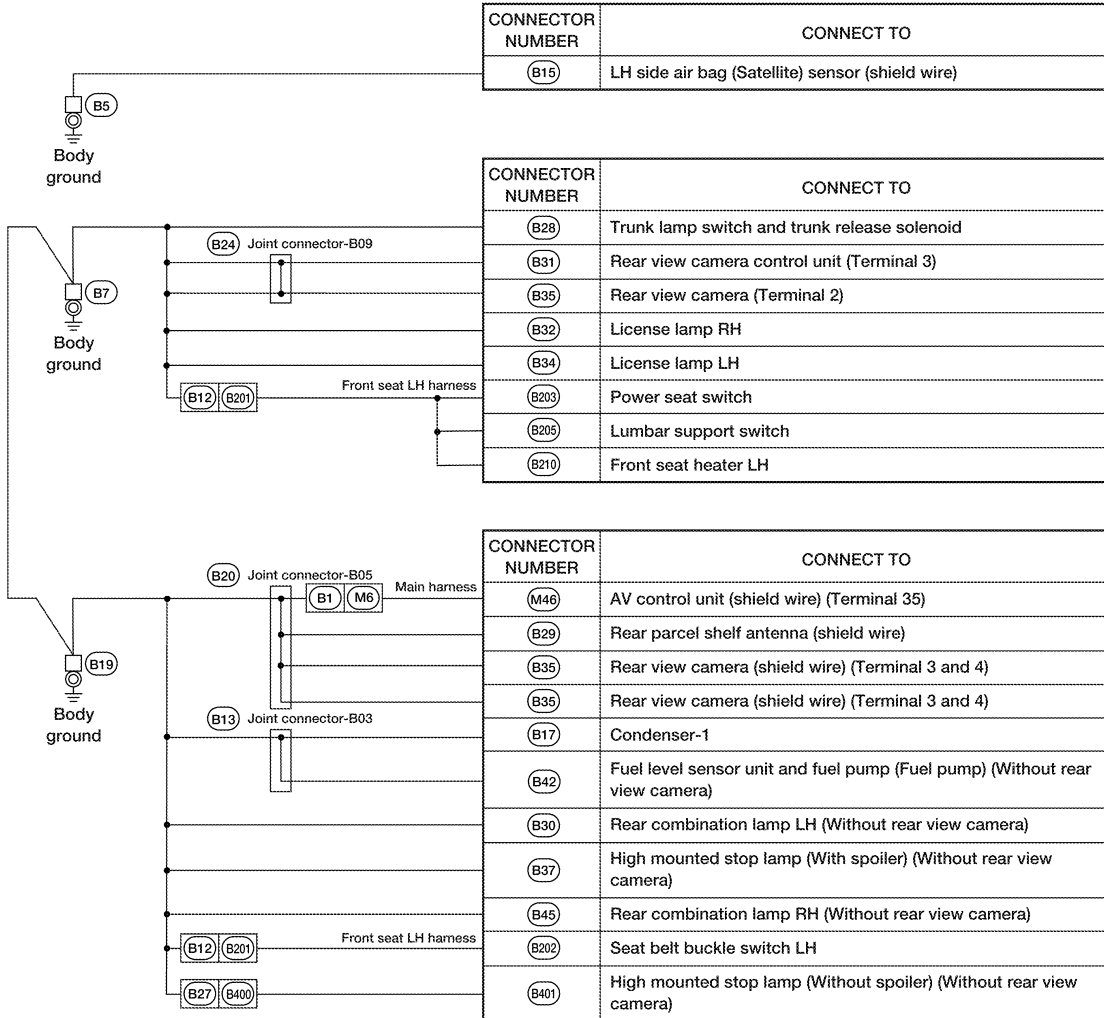
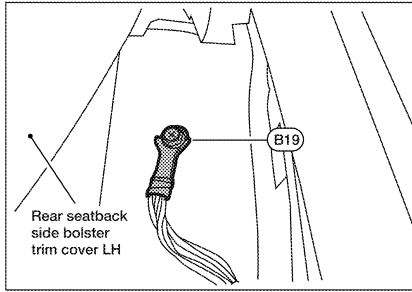
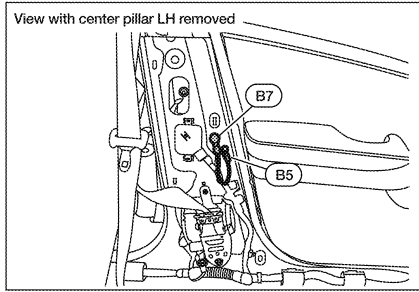


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# GROUND

< COMPONENT DIAGNOSIS >

## BODY HARNESS



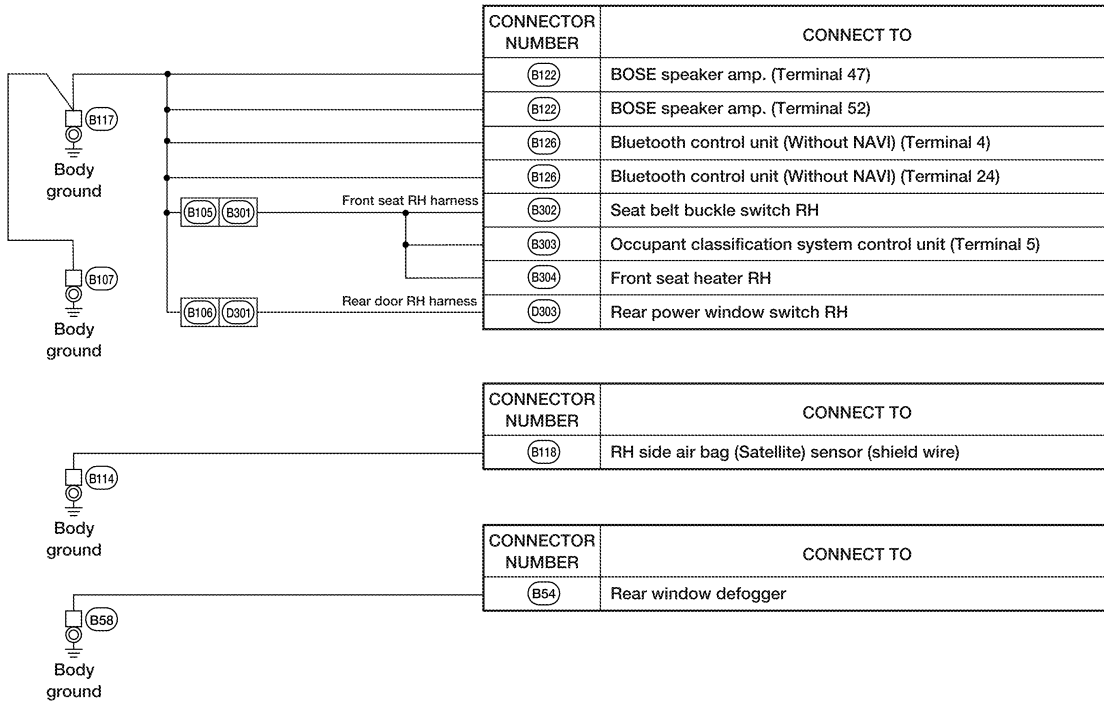
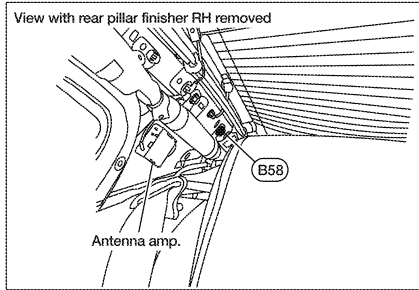
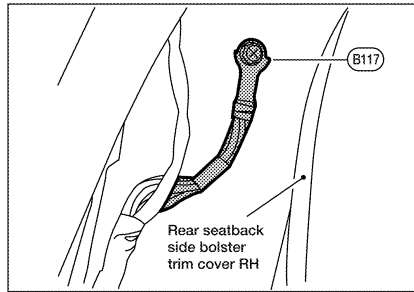
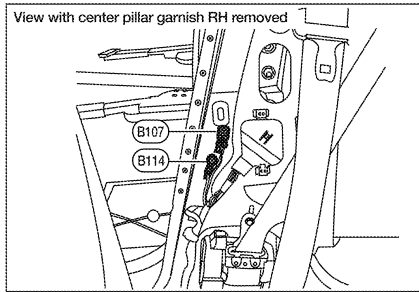
ALMIA0041GB

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# GROUND

## < COMPONENT DIAGNOSIS >

### BODY NO. 2 HARNESS



ALMIA0042GB

# HARNESS

< COMPONENT DIAGNOSIS >

## HARNESS

### Harness Layout

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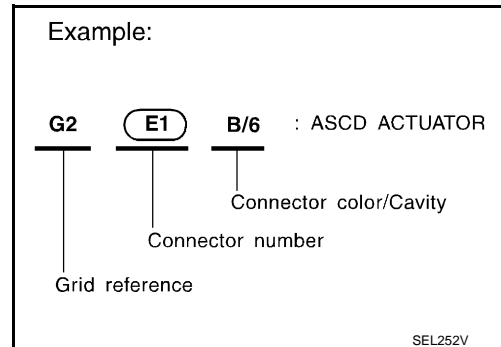
#### HOW TO READ HARNESS LAYOUT

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

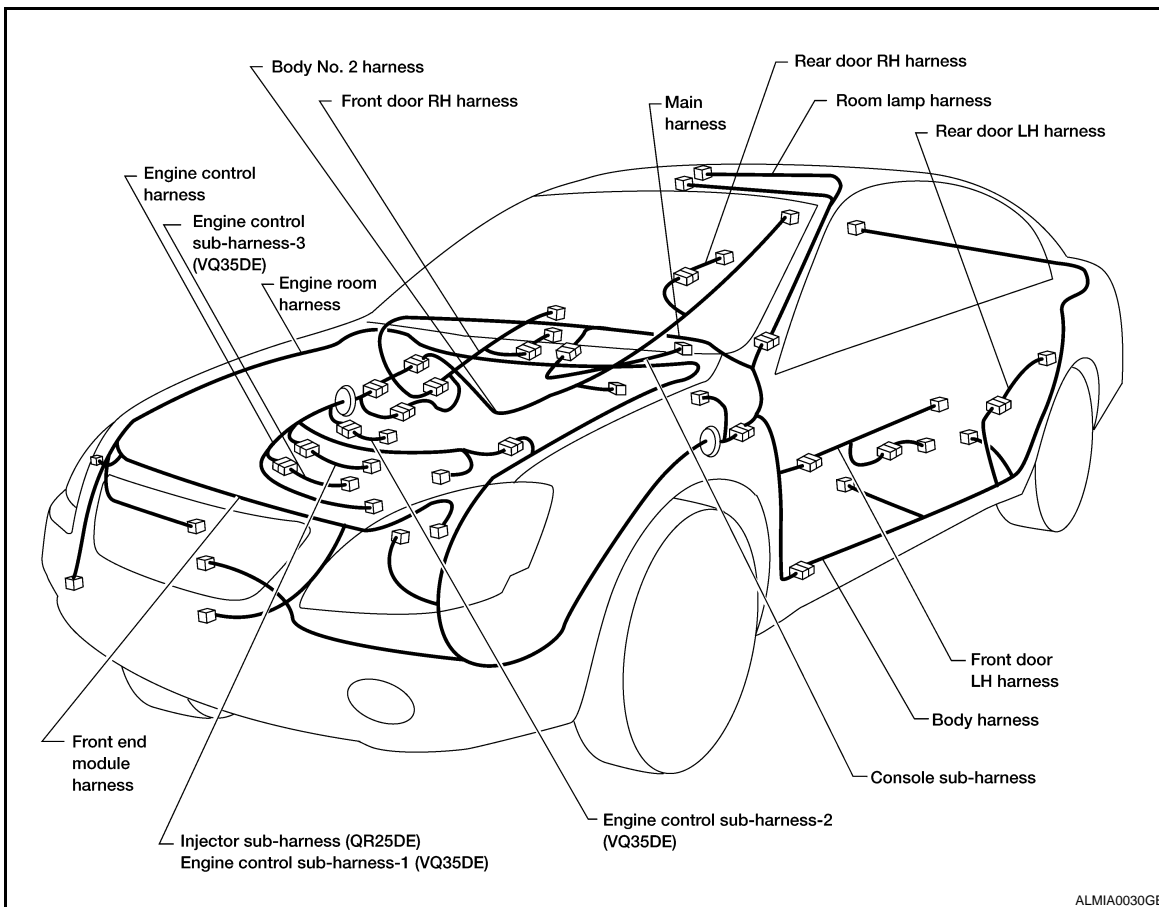
- Main Harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Front End Module Harness
- Engine Control Harness (VQ35DE) and Knock Sensor Sub-harness
- Engine Control Harness (QR25DE)
- Body Harness
- Body No. 2 Harness
- Room Lamp Harness

#### 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.



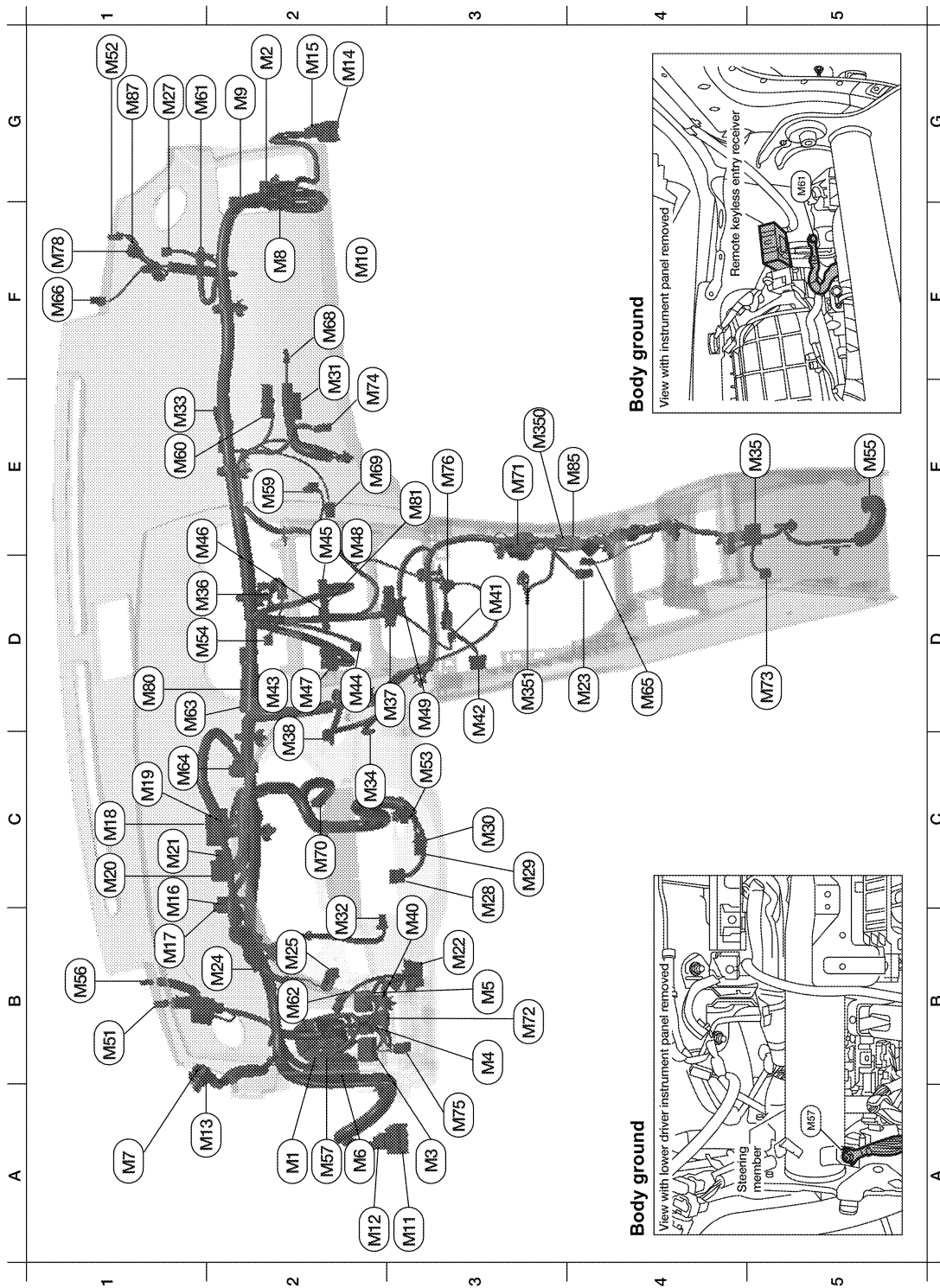
#### OUTLINE



# HARNESS

< COMPONENT DIAGNOSIS >

## MAIN HARNESS



ALMIA0017GB

B2	M1	SMJ	: To E30	E3	M43	W/20	: Audio unit
B2	M2	W/32	: To B101	E3	M44	W/8	: Audio unit
B3	M3	W/8	: Fuse block (J/B)	E2	M45	W/12	: Audio unit
B4	M4	W/10	: Fuse block (J/B)	E3	M46	W/40	: Navi unit



# HARNESS

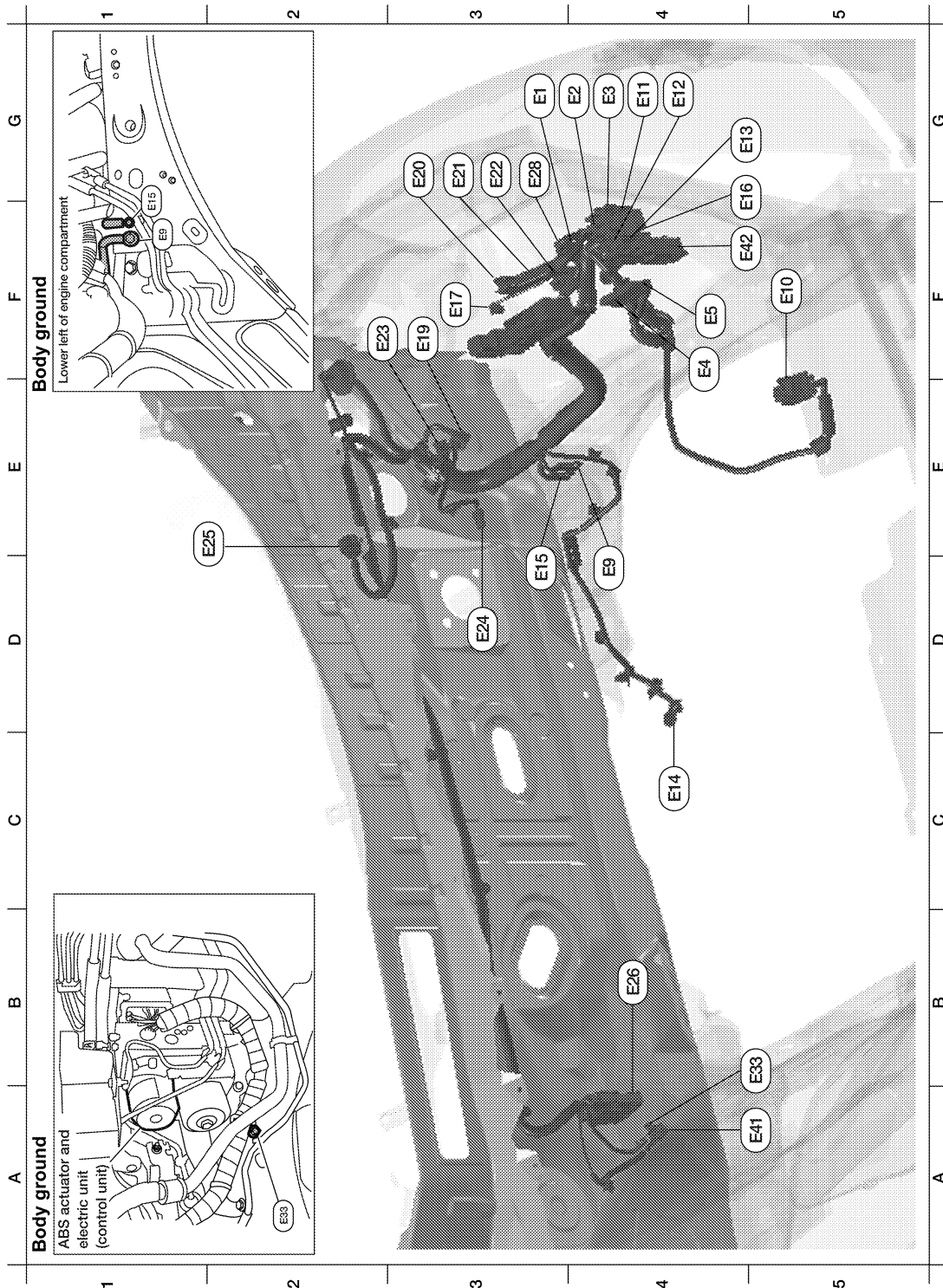
## < COMPONENT DIAGNOSIS >

B4	M5	W/12	: Fuse block (J/B)	E2	M47	W/20	: Navi unit	A
C3	M6	SMJ	: To B1	F5	M48	GR/12	: Navi unit	B
C3	M7	W/16	: To R1	D3	M49	GR/2	: Instrument panel antenna	C
C4	M8	W/24	: To B102	E2	M51	BR/2	: Tweeter LH	D
C4	M9	BR/16	: To B103	E3	M52	BR/2	: Tweeter LH	E
A4	M10	BR/12	: To B104	E3	M53	W/8	: Steering angle sensor	F
A3	M11	W/16	: To D1	D4	M54	W/4	: Hazard switch	G
B3	M12	W/16	: To D2	C2	M55	B/5	: Yaw rate/side/decel G sensor	H
A3	M13	W/4	: To R2	D2	M56	B/2	: Sunload sensor	I
B3	M14	W/10	: To D101	D2	M57	—	: Body ground	J
D4	M15	W/12	: To D102	E3	M59	W/12	: Power steering control unit	K
C1	M16	B/3	: BCM (body control module)	E2	M60	Y/2	: Front passenger air bag module	L
C3	M17	W/16	: BCM (body control module)	D1	M61	—	: Body ground	M
C3	M18	G/40	: BCM (body control module)	F2	M62	W/2	: Tire pressure warning check connector	N
B3	M19	B/40	: BCM (body control module)	D3	M63	L/12	: Joint connector M02	O
C3	M20	W/12	: BCM (body control module)	E1	M64	GR/6	: Joint connector M01	P
C3	M21	GR/40	: BCM (body control module)	E2	M65	BR/2	: AT indicator lamp	
D2	M22	W/16	: Data link connector	D2	M66	W/3	: Optical sensor	
C3	M23	W/10	: CVT device	E2	M67	O/2	: Front passenger air bag module	
D5	M24	W/40	: Combination meter	E1	M68	W/2	: Glove box lamp	
C2	M25	B/10	: Meter mode switch	C3	M69	W/4	: Intake sensor	
C3	M27	B/4	: Remote keyless entry receiver (for intelligent key)	C3	M70	W/4	: Tire pressure receiver	
E3	M28	W/16	: Combination switch	D3	M71	W/12	: To M200	
D3	M29	Y/6	: Combination switch (spiral cable)	C3	M72	GR/6	: TCS OFF switch (with TCS)	
D3	M30	GR/8	: Combination switch (spiral cable)	G2	M72	GR/6	: VDC OFF switch (with VDC)	
D3	M31	W/6	: Blower motor	G2	M73	B/1	: Parking brake switch (with M/T)	
C4	M32	W/8	: Electronic steering column lock	C3	M74	W/2	: Trunk lid cancel switch	
E2	M33	W/3	: To M125	C2	M75	B/2	: Trunk lid opener switch	
D3	M34	W/2	: In-vehicle sensor	G2	M76	B/3	: Front power socket	
E4	M35	Y/28	: Air bag diagnosis sensor unit	F2	M78	Y/4	: Front passenger air bag module (service connector)	
E5	M36	W/3	: Front passenger air bag off indicator	D3	M80	—	: Diode-3	PG
E5	M37	W/40	: Front air control	F2	M81	GR/3	: Audio unit	
B1	M38	BR/8	: Push-button ignition switch	F1	M85	W/2	: To M350	
D3	M40	W/12	: Card slot	G3	M87	GR/3	: To M501	
C2	M41	W/4	: Aux jack	D3	M350	W/2	: To M85	
D3	M42	W/16	: CD changer	E2	M351	B/3	: Front console power socket	

# HARNESS

< COMPONENT DIAGNOSIS >

## ENGINE ROOM HARNESS



ALMIA0018GB

G5	E1	W/6	: Joint connector-E01			
F2	E2	W/8	: To E202			
G5	E3	W/16	: To F1			
G5	E4	BR/2	: Fusible link box (battery)			
G5	E5	GR/2	: Fusible link box (battery)			

# HARNESS

## < COMPONENT DIAGNOSIS >

E3	E9	—	: Body ground				A
E2	E10	B/32	: ECM				B
G3	E11	W/10	: To F2				B
G3	E12	W/6	: To E203				B
G3	E13	B/3	: To E205				B
G3	E14	B/2	: Power steering solenoid valve				C
E2	E15	—	: Body ground				C
E2	E16	B/2	: IPDM E/R (intelligent power distribution module engine room)				D
D3	E17	W/8	: IPDM E/R (intelligent power distribution module engine room)				D
C3	E18	W/32	: IPDM E/R (intelligent power distribution module engine room)				E
C3	E19	GR/2	: Front wheel sensor LH				E
D2	E20	W/6	: Joint connector-E02				F
C2	E21	W/4	: Joint connector-E03				F
B1	E22	W/4	: Joint connector-E04				G
B2	E23	BR/3	: Intelligent key warning buzzer				G
B2	E24	GR/2	: Brake fluid level switch				H
A1	E25	GR/5	: Front wiper motor				H
A2	E26	B/26	: ABS actuator and electric unit (control unit)				I
A2	E41	GR/2	: Front wheel sensor RH				I
B1	E42	BR/6	: Cooling fan relay-2				J
B2	E43	BR/6	: Cooling fan relay-3				J

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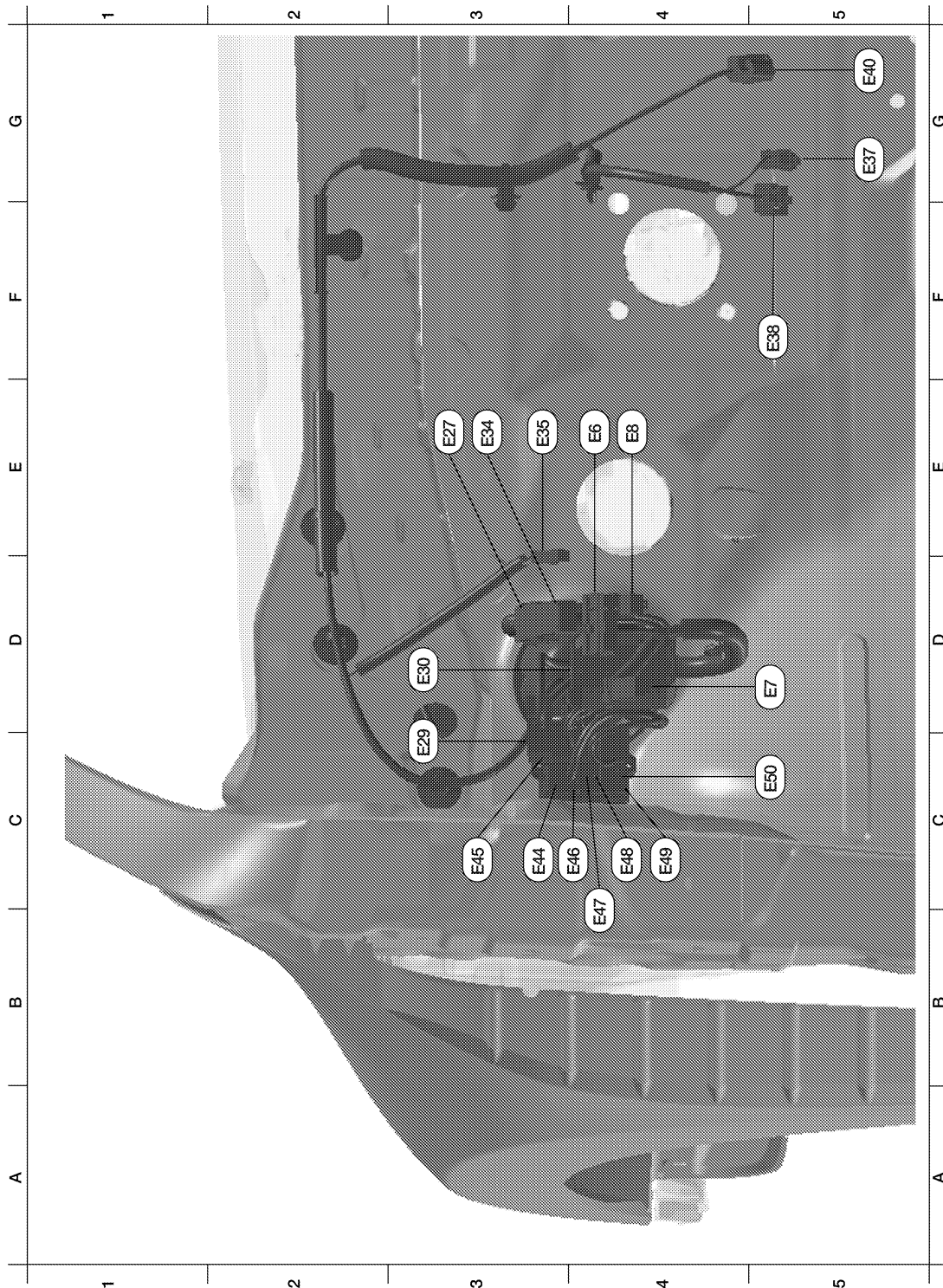
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# HARNESS

< COMPONENT DIAGNOSIS >

## ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



ALMIA0019GB

B2	E6	W/16	: Fuse block (J/B)				
A3	E7	W/1	: Fuse block (J/B)				
B2	E8	B/2	: Fuse block (J/B)				
A2	E27	W/4	: Joint connector-E06				
A3	E29	W/16	: To B10				

# HARNESS

## < COMPONENT DIAGNOSIS >

A3	E30	SMJ	: To M1				
B4	E34	L/4	: Back-up lamp relay				
C4	E35	B/1	: Park brake switch (with CVT)				
C5	E37	BR/2	: ASCD brake switch				
C4	E38	W/4	: Stop lamp switch				
F1	E40	B/6	: Accelerator pedal position switch				
B2	E44	BR/12	: Junction block No. 2				
D3	E45	W/12	: Junction block No. 2				
C3	E46	W/16	: Junction block No. 2				
B3	E47	W/6	: Junction block No. 2				
C2	E48	W/4	: Junction block No. 2				
C3	E49	BR/4	: Junction block No. 2				
B3	E50	W/2	: Junction block No. 2				

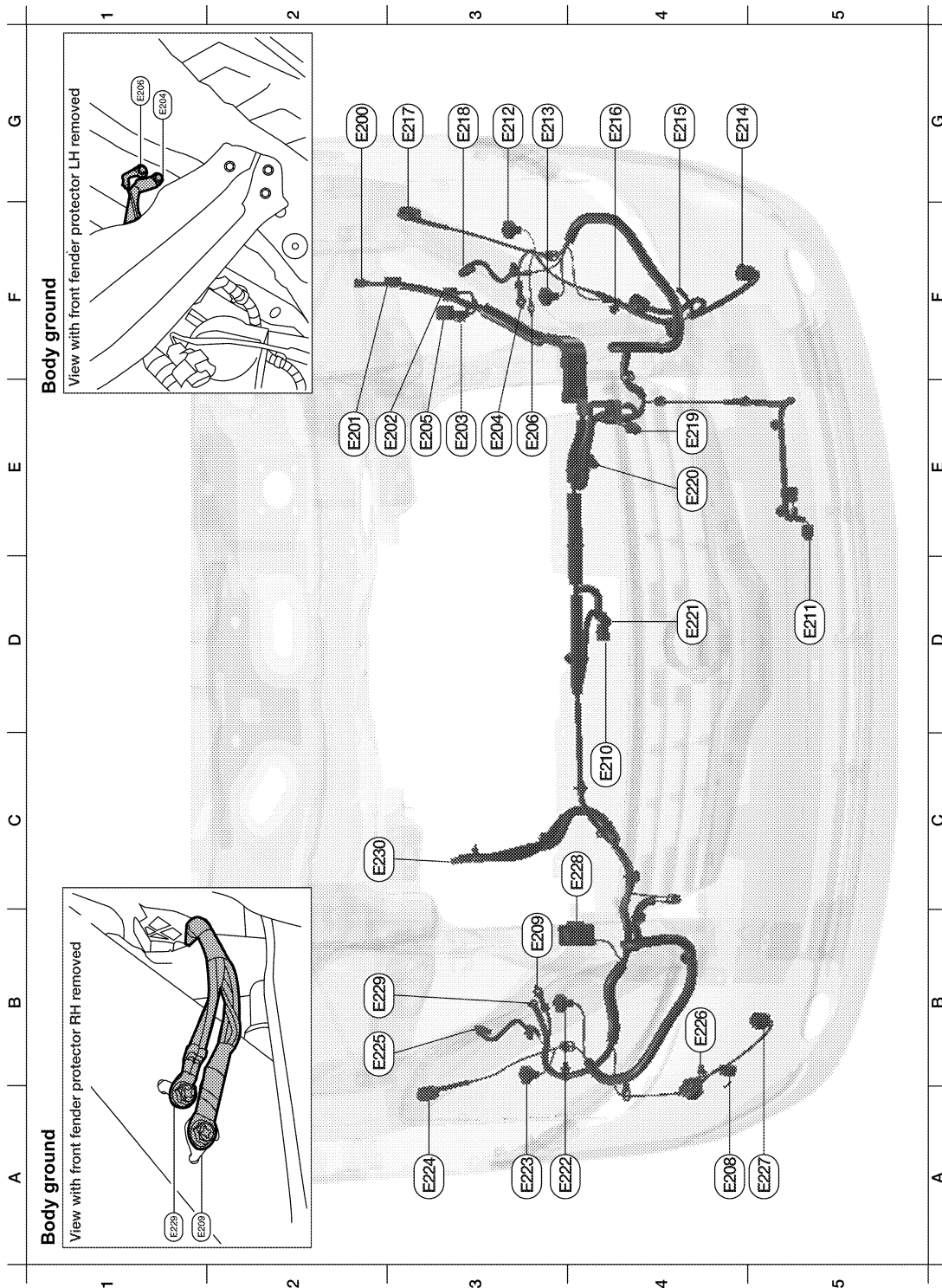
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# HARNESS

## < COMPONENT DIAGNOSIS > FRONT END MODULE HARNESS



ALMIA0022GB

B2	E200	W/8	: IPDM E/R (intelligent power distribution module engine room)			
A3	E201	W/16	: IPDM E/R (intelligent power distribution module engine room)			
B2	E202	W/8	: To E2			
A2	E203	W/6	: To E12			

# HARNESS

## < COMPONENT DIAGNOSIS >

A3	E204	—	: Body ground							A
A3	E205	B/3	: To E13							
B4	E206	—	: Body ground							
C4	E208	W/2	: Washer fluid level switch							B
C5	E209	—	: Body ground							
C4	E210	Y/2	: Crash zone sensor							C
F1	E211	B/2	: Ambient sensor							
B2	E212	B/2	: Front headlamp LH (low) (halogen)							
D3	E212	GR/2	: Front headlamp LH (low) (xenon)							D
C3	E213	B/2	: Front headlamp LH (high)							
B3	E214	B/2	: Front fog lamp LH							
C2	E215	B/1	: Horn (low)							E
C3	E216	B/1	: Horn (high)							
B3	E217	GR/3	: Front turn signal lamp LH							F
B3	E218	B/2	: Front parking lamp LH							
B3	E219	B/3	: Refrigerant pressure sensor							
B3	E220	GR/4	: Cooling fan motor-1							G
B3	E221	GR/4	: Cooling fan motor-2							
B3	E222	B/2	: Front headlamp RH (high)							
B3	E223	B/2	: Front headlamp RH (low) (halogen)							H
B3	E223	GR/2	: Front headlamp RH (low) (xenon)							
B3	E224	GR/3	: Front turn signal lamp RH							I
B3	E225	B/2	: Front parking lamp RH							
B3	E226	B/2	: Front washer motor							J
B3	E227	B/2	: Front fog lamp RH							
B3	E228	B/5	: Daytime light relay							
B3	E229	—	: Body ground							K
B3	E230	—	: Generator							

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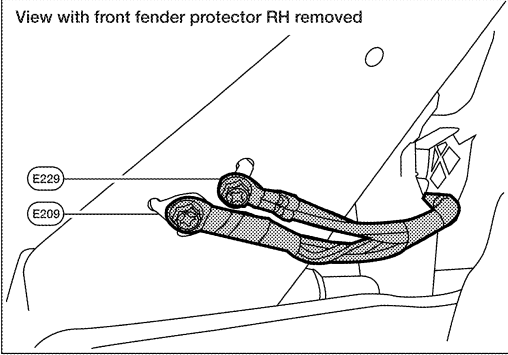
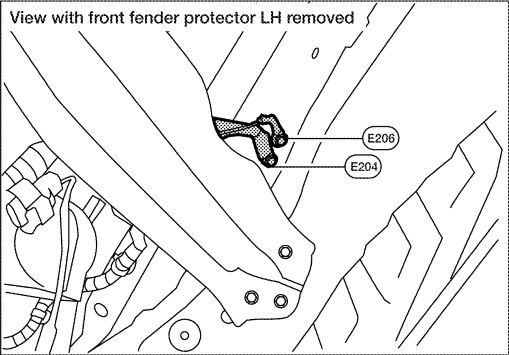
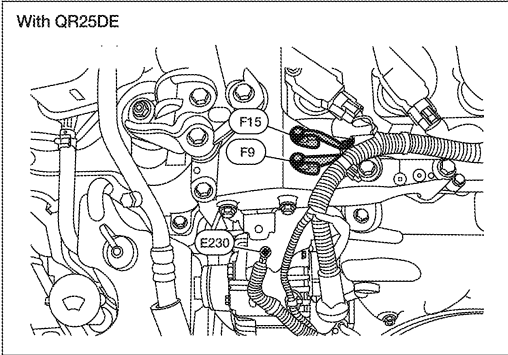
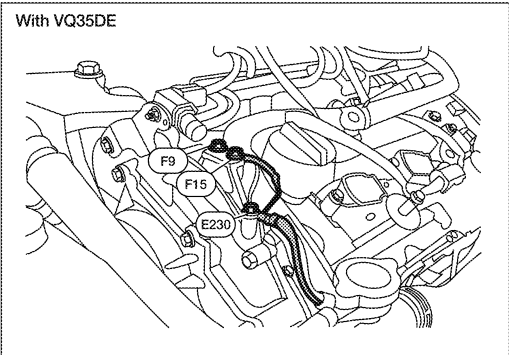
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# HARNESS

## < COMPONENT DIAGNOSIS >

### FRONT END MODULE HARNESS (GROUNDS)

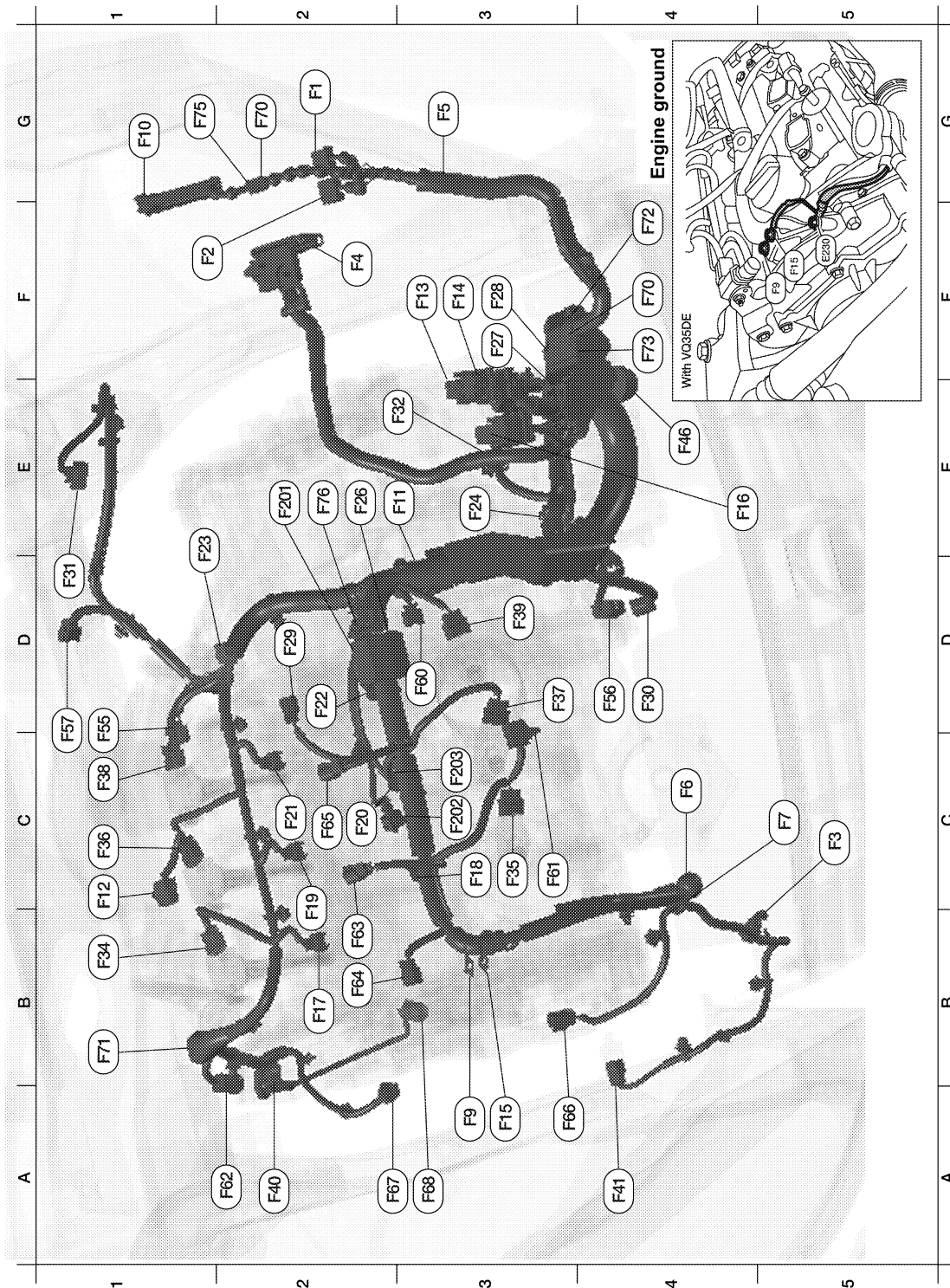




# HARNESS

< COMPONENT DIAGNOSIS >

## ENGINE CONTROL HARNESS (VQ35DE)



ALMIA0020GB

D5	F1	W/16	: To E3	A2	F55	B/3	: Camshaft position sensor (phase) (bank 1)
D5	F2	W/10	: To E11	A2	F56	B/4	: Heated oxygen sensor 2 (bank 2)
D5	F3	B/12	: A/C Compressor	C3	F57	B/6	: Electric throttle control actuator
D4	F4	—	: Fusible link box (battery)	A2	F60	B/3	: Camshaft position sensor (phase) (bank 2)
E5	F5	B/3	: Current sensor	C3	F61	GR/4	: Air fuel ratio (A/F) sensor 1 (bank 2)

# HARNESS

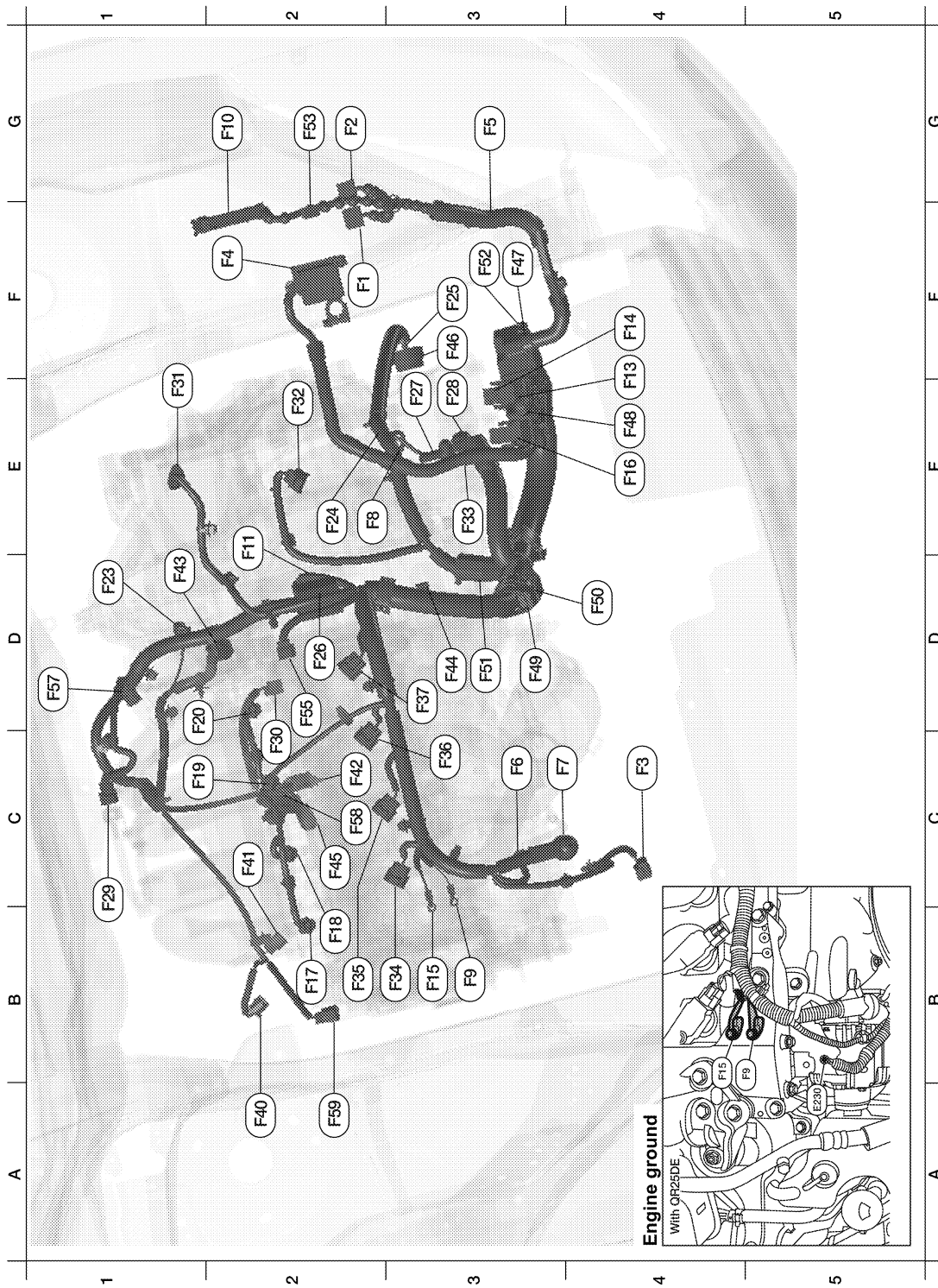
## < COMPONENT DIAGNOSIS >

D4	F6	—	: Generator	D3	F62	B/4	: Heated oxygen sensor 2 (bank 1)
E4	F7	B/3	: Generator	D3	F63	B/2	: VIAS control solenoid valve (bank 1)
E4	F8			D3	F64	BR/2	: Rear electronic controlled engine mount
D4	F9	—	: Engine ground	E2	F65	B/2	: VIAS control solenoid valve (bank 1)
F4	F10	W/36	: IPDM E/R (intelligent power distribution module engine room)	C4	F66	G/2	: Intake valve timing control solenoid valve (bank 2)
F3	F11	GR/2	: Engine coolant temperature sensor	C3	F67	G/2	: Intake valve timing control solenoid valve (bank 1)
E5	F12	GR/4	: Air fuel ratio (A/F) sensor 1 (bank 1)	C3	F68	GR/2	: Engine oil temperature sensor
D4	F13	BR/48	: ECM	D2	F70	B/10	: Joint connector-F01
D4	F14	GR/32	: ECM	D3	F71	GR/6	: Joint connector-F03
D4	F15	—	: Engine ground	D3	F72	B/10	: Joint connector-F04
D3	F16	B/48	: TCM (transmission control module)	D3	F73	B/10	: Joint connector-F05
E4	F17	GR/2	: Fuel injector No. 1	D3	F74	W/4	: Joint connector-F08
E4	F18	GR/2	: Fuel injector No. 2	D3	F75	W/4	: Joint connector-F07
E3	F19	GR/2	: Fuel injector No. 3	D3	F76	L/4	: To F201
E4	F20	GR/2	: Fuel injector No. 4	Knock sensor sub-harness			
F3	F21	GR/2	: Fuel injector No. 5	D3	F201	L/4	: To F76
D2	F22	GR/2	: Fuel injector No. 6	D3	F202	L/2	: Knock sensor
E3	F23	B/3	: Secondary speed sensor	D3	F203	L/2	: Knock sensor
E3	F24	B/2	: Reverse lamp switch				
E3	F26	GR/2	: Condenser-2				
F4	F27	/2	: Starter motor				
F4	F28	/1	: Starter motor				
F4	F29	L/2	: EVAP canister purge volume control solenoid valve				
G3	F30	B/3	: Crankshaft position sensor (POS)				
F2	F31	B/6	: Mass air flow sensor				
F2	F32	B/2	: Park/neutral position (PNP) switch				
E3	F34	GR/3	: Ignition coil No. 1 (with power transistor)				
F3	F35	GR/3	: Ignition coil No. 2 (with power transistor)				
D2	F36	GR/3	: Ignition coil No. 3 (with power transistor)				
D2	F37	GR/3	: Ignition coil No. 4 (with power transistor)				
C2	F38	GR/3	: Ignition coil No. 5 (with power transistor)				
E2	F39	GR/3	: Ignition coil No. 6 (with power transistor)				
B1	F40	B/3	: Power steering pressure sensor				
A1	F41	GR/1	: Oil pressure switch				
B1	F46	GR/22	: CVT unit				

# HARNESS

< COMPONENT DIAGNOSIS >

## ENGINE CONTROL HARNESS (QR25DE)



ALMIA0021GB

D5	F1	W/16	: To E3	D2	F47	B/6	: Joint connector-F01
D5	F2	W/10	: To E11	D3	F48	B/10	: Joint connector-F02
D5	F3	B/12	: A/C Compressor	D3	F49	B/10	: Joint connector-F03
D4	F4	—	: Fusible link box (battery)	D3	F50	B/10	: Joint connector-F04
E5	F5	B/3	: Current sensor	D3	F51	B/6	: Joint connector-F05

# HARNESS

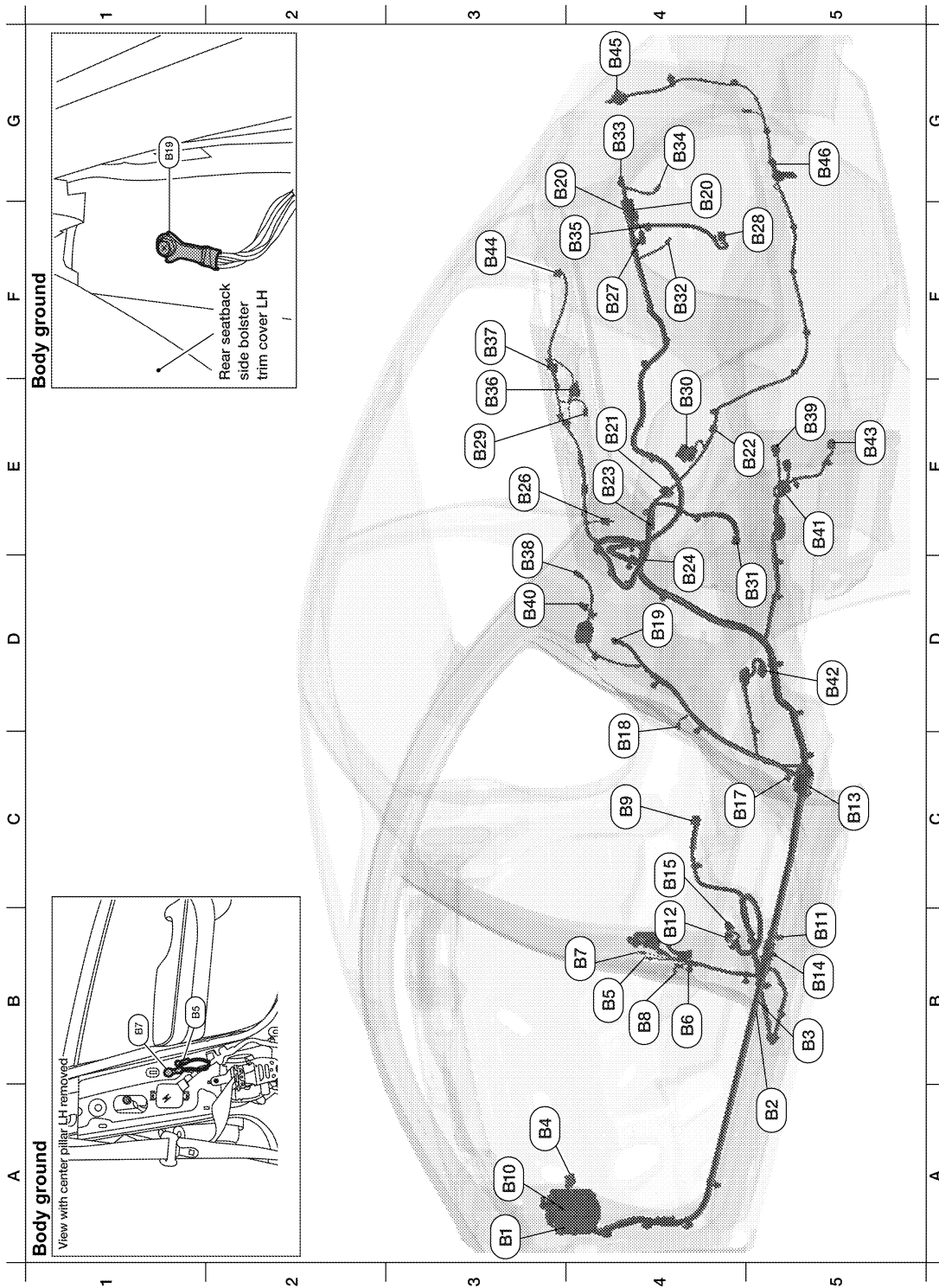
## < COMPONENT DIAGNOSIS >

D4	F6	—	: Generator	D3	F52	B/10	: Joint connector-F06
E4	F7	B/3	: Generator	D3	F53	W/4	: Joint connector-F07
E4	F8			D3	F55	B/3	: Camshaft position sensor (phase)
D4	F9	—	: Engine ground	E2	F57	B/6	: Electric throttle control actuator
F4	F10	W/36	: IPDM E/R (intelligent power distribution module engine room)	C4	F58	B/4	: To F101
F3	F11	GR/2	: Engine coolant temperature sensor	C3	F59	G/2	: Intake valve timing control solenoid valve
D4	F13	BR/48	: ECM				
D4	F14	GR/32	: ECM				
D4	F15	—	: Engine ground				
D3	F16	B/48	: TCM (transmission control module)				
E4	F17	GR/2	: Fuel injector No. 1				
E4	F18	GR/2	: Fuel injector No. 2				
E3	F19	GR/2	: Fuel injector No. 3				
E4	F20	GR/2	: Fuel injector No. 4				
E3	F23	B/3	: Secondary speed sensor				
E3	F24	B/2	: Reverse lamp switch				
E3	F25	B/10	: Park/neutral position (PNP) switch (with CVT)				
E3	F26	GR/2	: Condenser-2				
F4	F27	/2	: Starter motor				
F4	F28	/1	: Starter motor				
F4	F29	L/2	: EVAP canister purge volume control solenoid valve				
G3	F30	B/3	: Crankshaft position sensor (POS)				
F2	F31	B/6	: Mass air flow sensor				
F2	F32	B/2	: Park/neutral position (PNP) switch (with M/T)				
F2	F33	GR/2	: Vehicle speed sensor				
E3	F34	GR/3	: Ignition coil No. 1 (with power transistor)				
F3	F35	GR/3	: Ignition coil No. 2 (with power transistor)				
D2	F36	GR/3	: Ignition coil No. 3 (with power transistor)				
D2	F37	GR/3	: Ignition coil No. 4 (with power transistor)				
B1	F40	B/3	: Power steering pressure sensor				
A1	F41	GR/1	: Oil pressure switch				
D3	F42	B/4	: Heated oxygen sensor 2				
D3	F43	GR/5	: Swirl control valve				
D3	F44	GR/4	: Air fuel ratio (A/F) sensor 1				
D3	F45	GR/2	: Knock sensor				
B1	F46	GR/22	: CVT unit				

# HARNESS

< COMPONENT DIAGNOSIS >

## BODY HARNESS



ALMIA0023GB

A3	B1	SMJ	: To M6			
A2	B2	W/4	: Joint connector-B01			
A3	B3	W/4	: Joint connector-B02			
A4	B4	BR/12	: Fuse block (J/B)			
C3	B5	—	: LH side air bag (satellite) sensor (sheild wire)			

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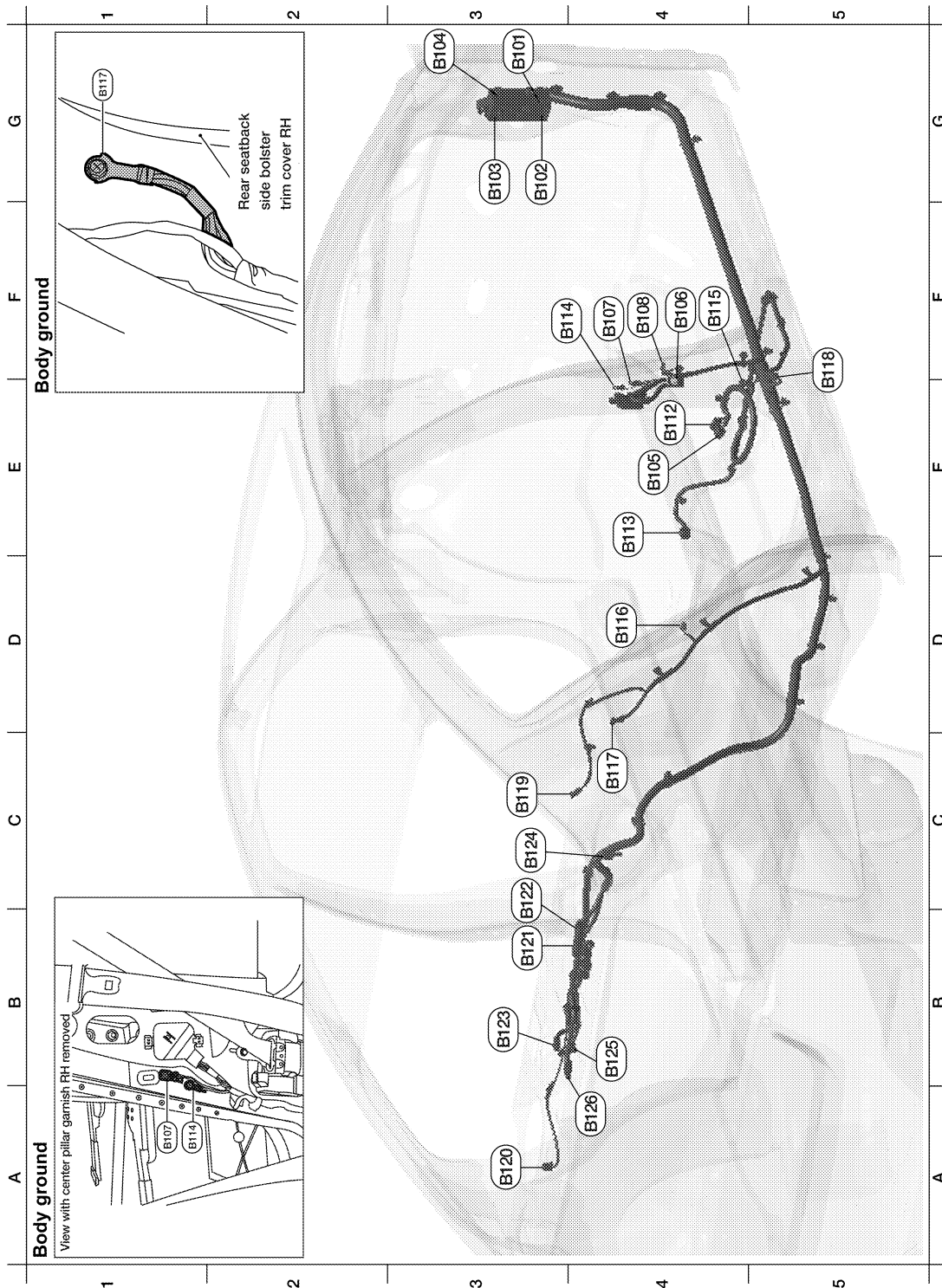
## < COMPONENT DIAGNOSIS >

C3	B6	W/8	: To D201				
B3	B7	—	: Body ground				
C3	B8	W/3	: Front door switch LH				
D3	B9	Y/12	: Air bag diagnosis sensor unit				
B3	B10	W/16	: To E29				
C4	B11	Y/2	: Front LH side air bag module				
C4	B12	W/8	: To B201				
D4	B13	W/6	: Joint connector-B03				
D4	B14	Y/2	: Front LH seat belt pre-tensioner				
D3	B15	Y/2	: LH side air bag (satellite) sensor				
D3	B17	W/2	: Condenser-3				
A3	B18	W/3	: Rear door switch LH				
C4	B19	—	: Body ground				
A4	B20	GR/6	: Joint connector-B05				
E3	B21	L/12	: Joint connector-B06				
E3	B22	GR/6	: Joint connector-B07				
E3	B23	W/4	: Joint connector-B08				
F3	B24	W/4	: Joint connector-B09				
E4	B26	W/2	: Rear speaker LH				
E3	B27	BR/2	: To B400				
F4	B28	W/4	: Trunk lamp switch and trunk release solenoid				
G3	B29	GR/2	: Rear parcel shelf antenna				
B4	B30	W/6	: Rear combination lamp LH				
E2	B31	W/16	: Rear view camera control unit				
A3	B32	BR/2	: License plate lamp LH				
B3	B33	BR/2	: Trunk opener request switch				
B3	B34	BR/2	: License plate lamp RH				
G4	B35	W/4	: Rear view camera control unit				
E4	B36	W/2	: Trunk room lamp				
D2	B37	W/2	: High mounted stop lamp				
F4	B38	Y/2	: LH side front curtain air bag module				
F4	B39	B/2	: EVAP canister vent control valve				
F4	B40	W/1	: Rear window defogger				
G4	B41	GR/3	: EVAP control system pressure sensor				
G4	B42	GR/5	: Fuel level sensor unit and fuel pump				
G4	B43	GR/4	: Rear wheel sensor				
G4	B44	W/2	: Rear speaker RH				
G4	B45	W/6	: Rear combination lamp RH				
G4	B46	GR/2	: Rear bumper antenna				

# HARNESS

< COMPONENT DIAGNOSIS >

## BODY NO. 2 HARNESS



ALMIA0024GB

F3	B101	W/32	: To M2			
G3	B102	W/24	: To M8			
G3	B103	BR/16	: To M9			
G2	B104	BR/12	: To M10			
G3	B105	W/8	: To B301			

# HARNES

## < COMPONENT DIAGNOSIS >

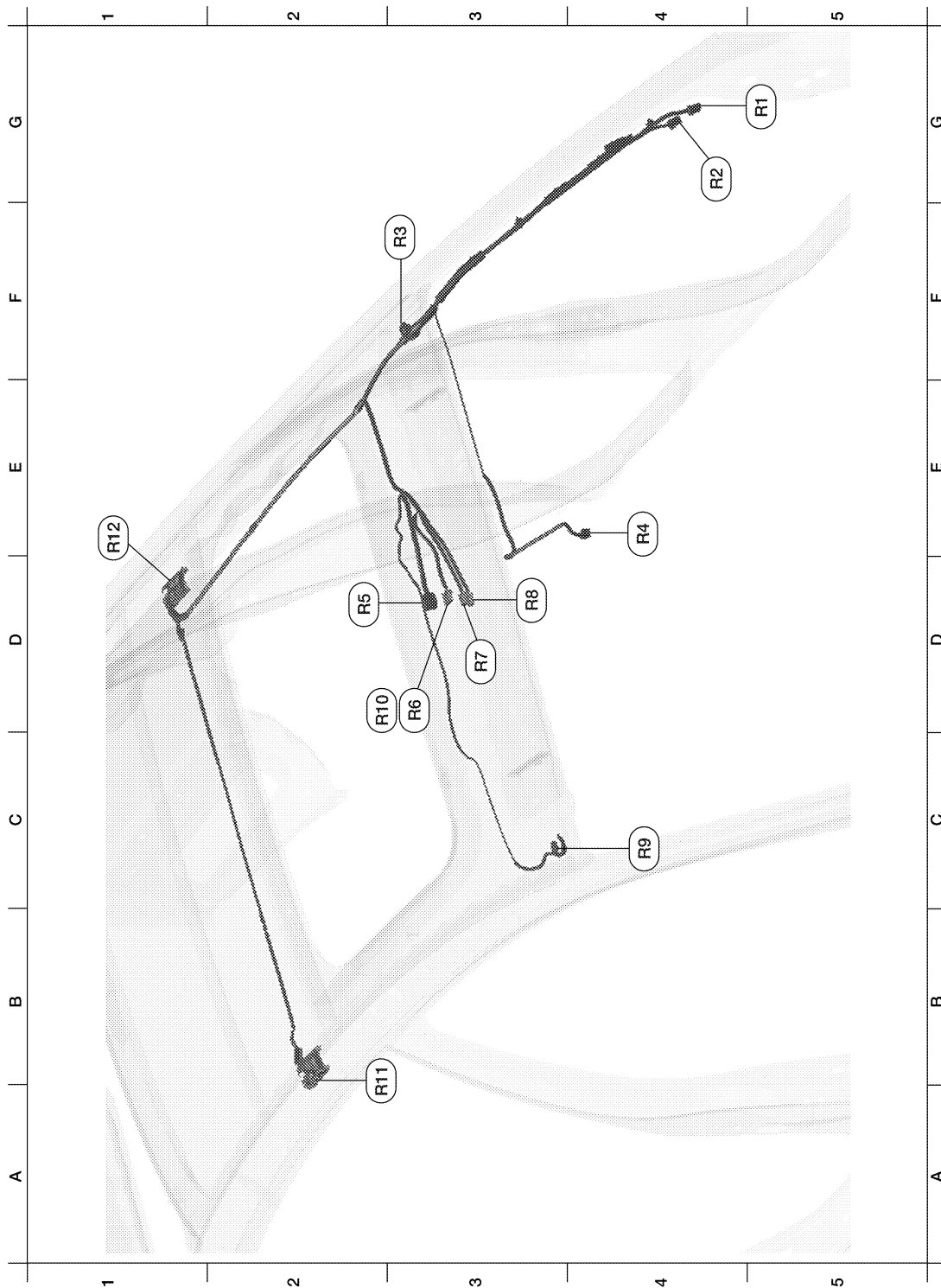
E3	B106	W/8	: To D301				
E3	B107	—	: Body ground				
E3	B108	W/3	: Front door switch RH				
G4	B112	Y/2	: Front RH side air bag module				
A3	B113	Y/12	: Air bag diagnosis sensor unit				
G2	B114	—	: RH side air bag (satellite) sensor (sheild wire)				
F4	B115	Y/2	: Front RH seat belt pre-tensioner				
D3	B116	W/3	: Rear door switch RH				
E4	B117	—	: Body ground				
E4	B118	Y/2	: RH side air bag (satellite) sensor				
D3	B119	Y/2	: RH side curtain air bag module				
E3	B120	W/2	: Rear speaker woofer LH				
C3	B121	BR/23	: BOSE speaker amp.				
A4	B122	BR/14	: BOSE speaker amp.				
A4	B123	W/16	: Satellite radio tuner or pre-wiring for satellite radio tuner				
B5	B124	W/2	: Rear subwoofer RH				
A5	B125	W/8	: Bluetooth control unit				
C3	B126	W/32	: Bluetooth control unit				
B3	B127	—	: RH side curtain air bag module (ground)				



# HARNESS

< COMPONENT DIAGNOSIS >

## ROOM LAMP HARNESS



ALMIA0025GB

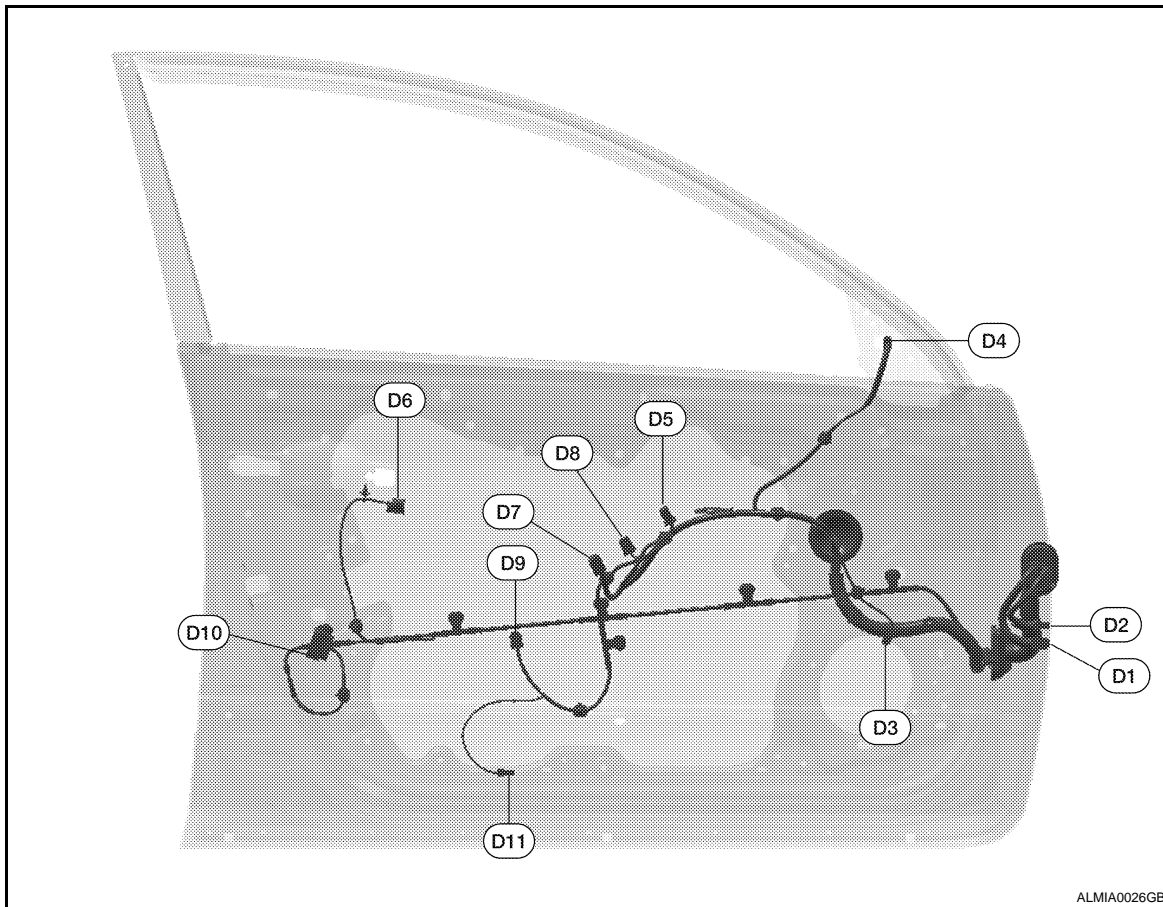
C5	R1	W/16	: To M17				
E5	R2	W/3	: To M13				
D4	R3	W/2	: Vanity mirror lamp LH				
D2	R4	B/10	: Auto anti-dazzling inside mirror				
C3	R5	W/10	: Sunroof motor assembly				

# HARNESS

## < COMPONENT DIAGNOSIS >

C4	R6	W/3	: Sunroof switch				
A3	R7	W/4	: Microphone				
F2	R8	W/4	: Bluetooth on indicator				
G2	R9	W/2	: Vanity mirror lamp RH				
F3	R10	GR/6	: Map lamp				
F2	R11	W/8	: Personal lamp 2nd row RH				
D1	R12	W/8	: Personal lamp 2nd row LH				

## FRONT DOOR LH HARNESS

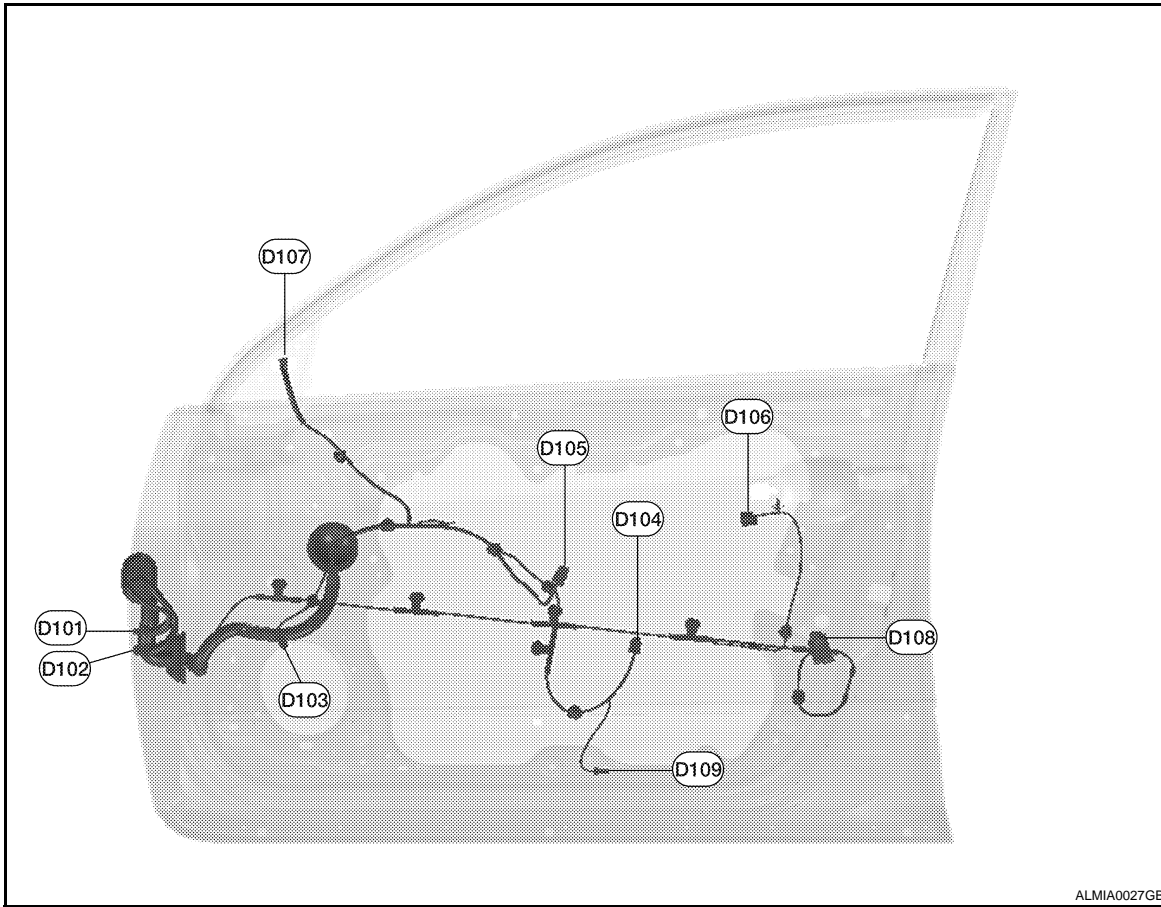


D1	W/16	: To M11	D6	B/4	: Front outside handle LH
D2	W/16	: To M12	D7	W/16	: Main power window and door lock/unlock switch
D3	BR/2	: Front door speaker LH	D8	W/3	: Main power window and door lock/unlock switch
D3	W/2	: Front door speaker LH	D9	W/6	: Front power window motor LH
D4	W/8	: Door mirror LH	D10	GR/6	: Front door lock assembly LH
D5	W/16	: Door mirror remote control switch	D11	W/2	: Front step lamp LH

# HARNESS

< COMPONENT DIAGNOSIS >

## FRONT DOOR RH HARNESS



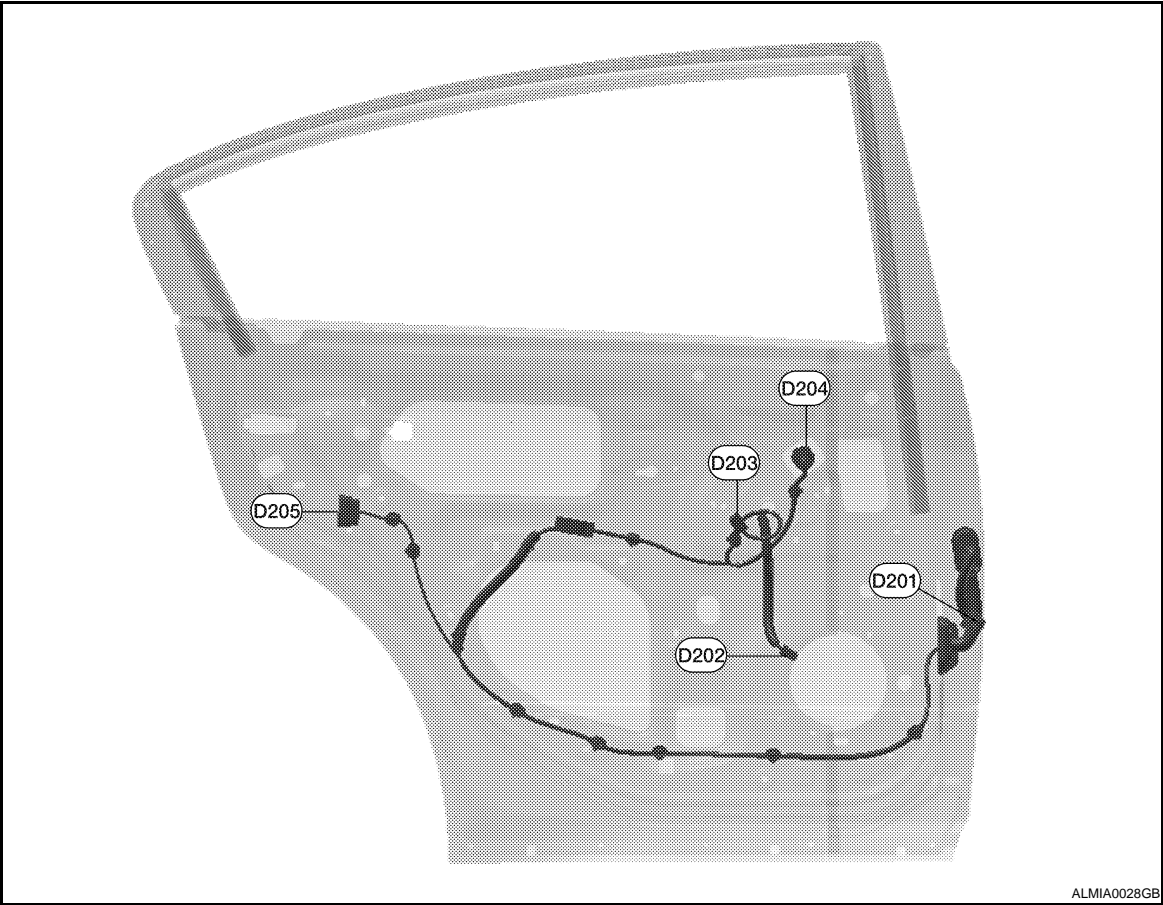
D101	W/10	: To M14	D105	W/16	: Power window and door lock/unlock switch RH
D102	W/16	: To M715	D106	B/4	: Front outside handle RH
D103	W/2	: Front door speaker RH	D107	W/8	: Door mirror RH
D103	BR/2	: Front door speaker RH	D108	GR/8	: Front door lock actuator RH
D104	W/6	: Front power window motor RH	D109	W/2	: Front step lamp RH
D105	W/12	: Power window and door lock/unlock switch RH			

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# HARNESS

< COMPONENT DIAGNOSIS >

## REAR DOOR LH HARNESS



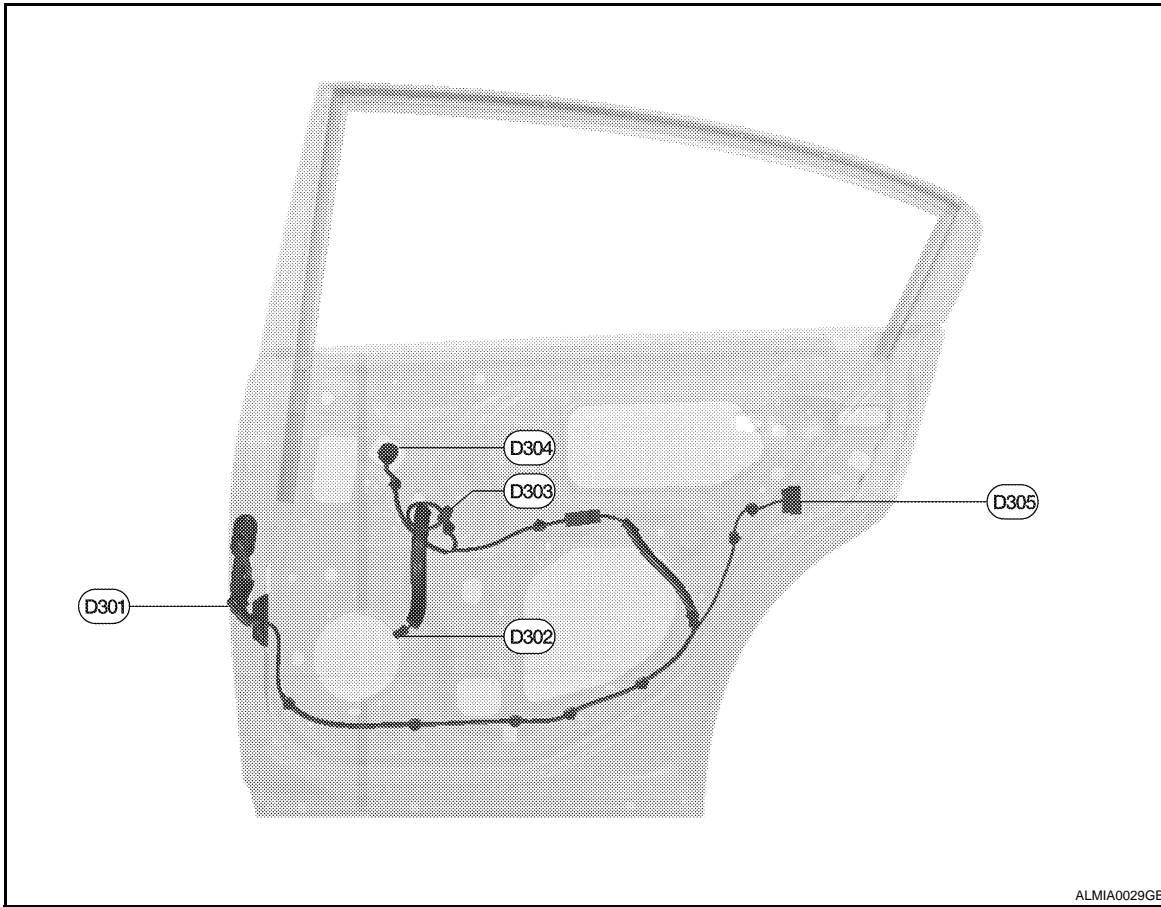
ALMIA0028GB

D201	W/8	: To B6			
D202	BR/2	: Rear door speaker LH			
D203	W/8	: Rear power window switch LH			
D204	G/6	: Rear power window motor LH			
D205	GR/6	: Rear door lock actuator LH			

# HARNESS

< COMPONENT DIAGNOSIS >

## REAR DOOR RH HARNESS



ALMIA0029GB

D301	W/8	: To B106			
D302	BR/2	: Rear door speaker RH			
D303	W/8	: Rear power window switch RH			
D304	G/6	: Rear power window motor RH			
D305	GR/6	: Rear door lock actuator RH			

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# ELECTRICAL UNITS LOCATION

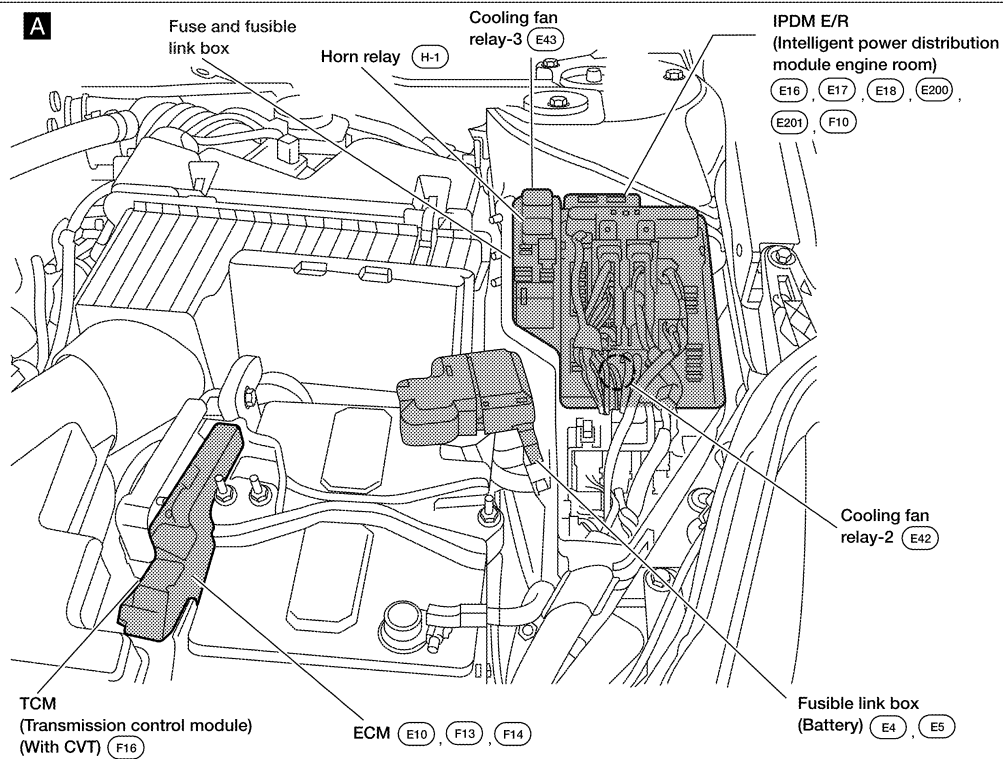
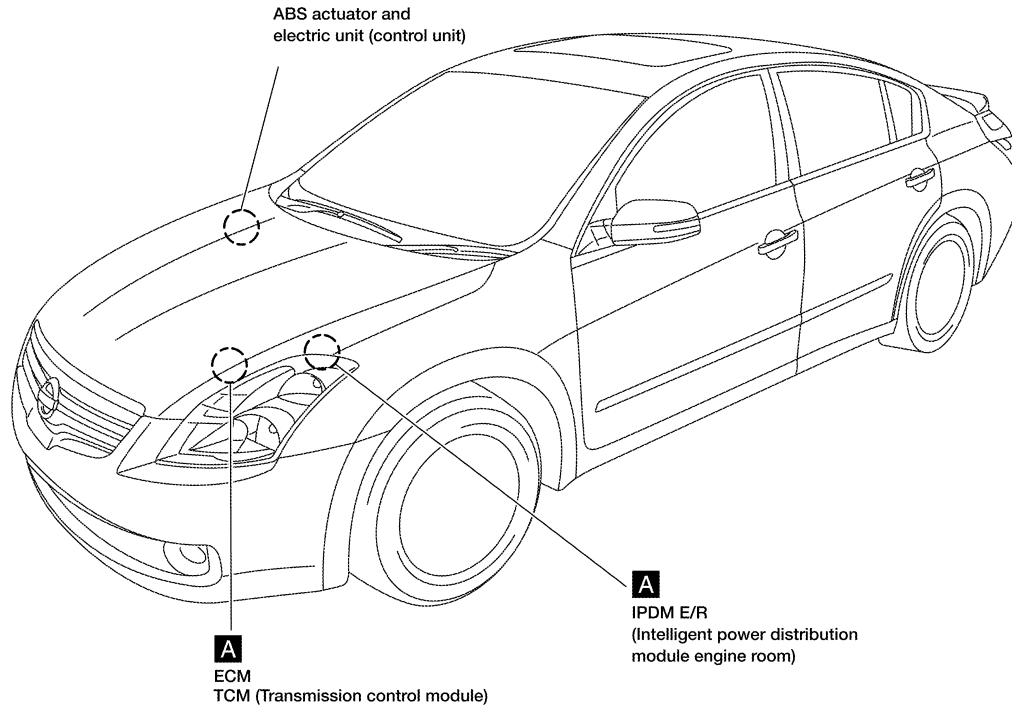
< COMPONENT DIAGNOSIS >

## ELECTRICAL UNITS LOCATION

### Electrical Units Location

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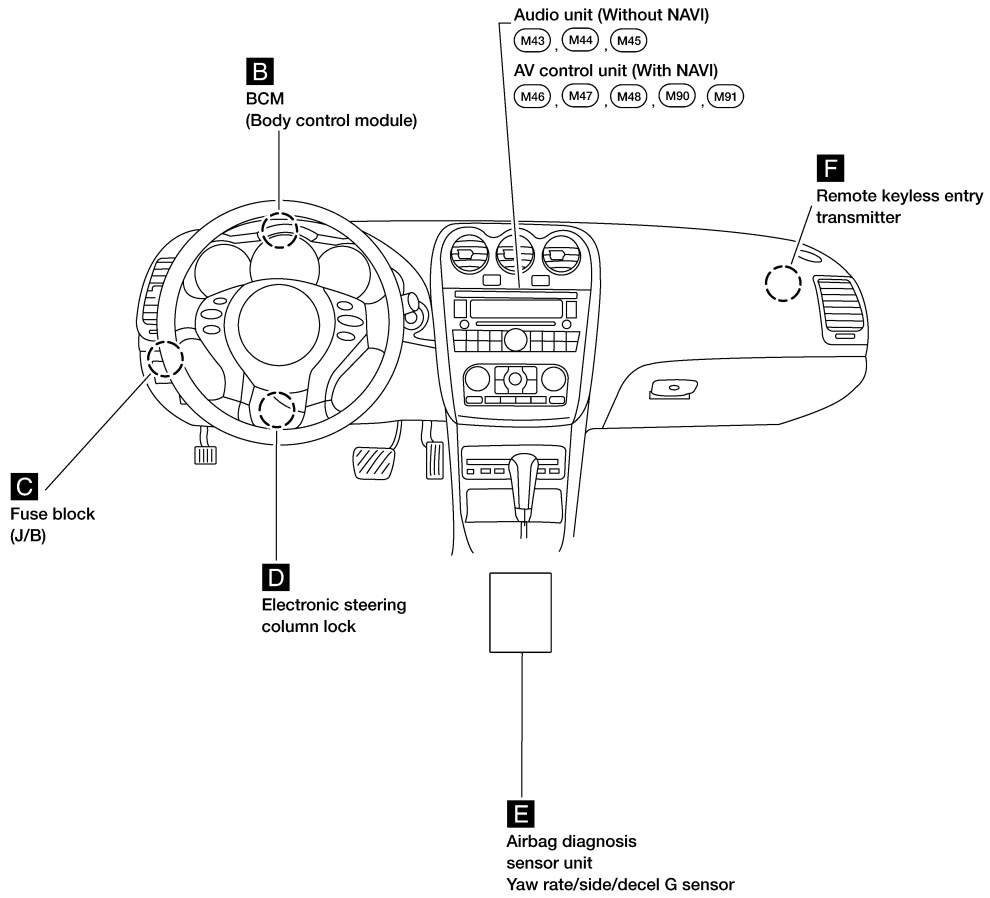
### ENGINE COMPARTMENT



ALMIA0010GB

# ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >  
PASSENGER COMPARTMENT



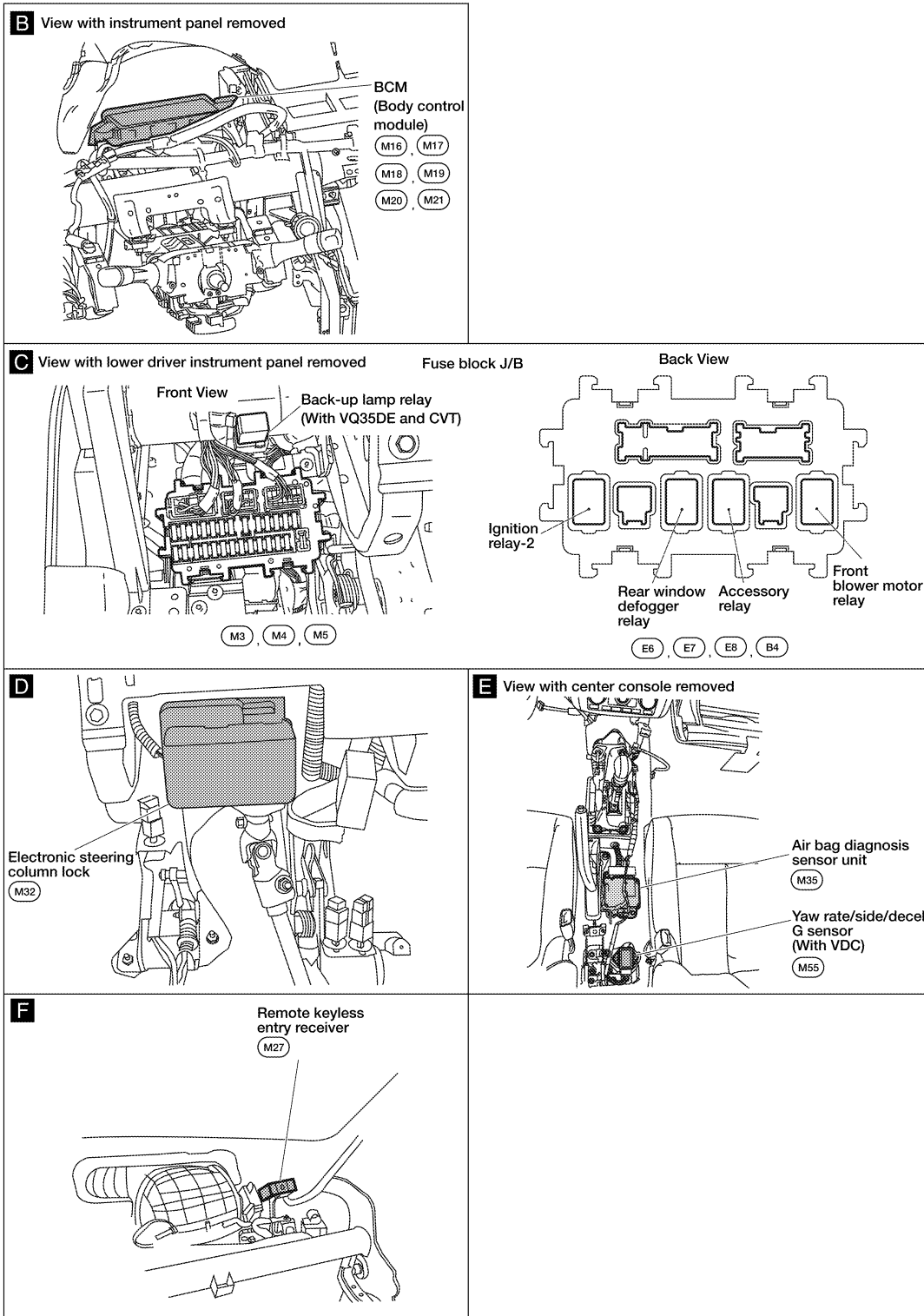
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# ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >



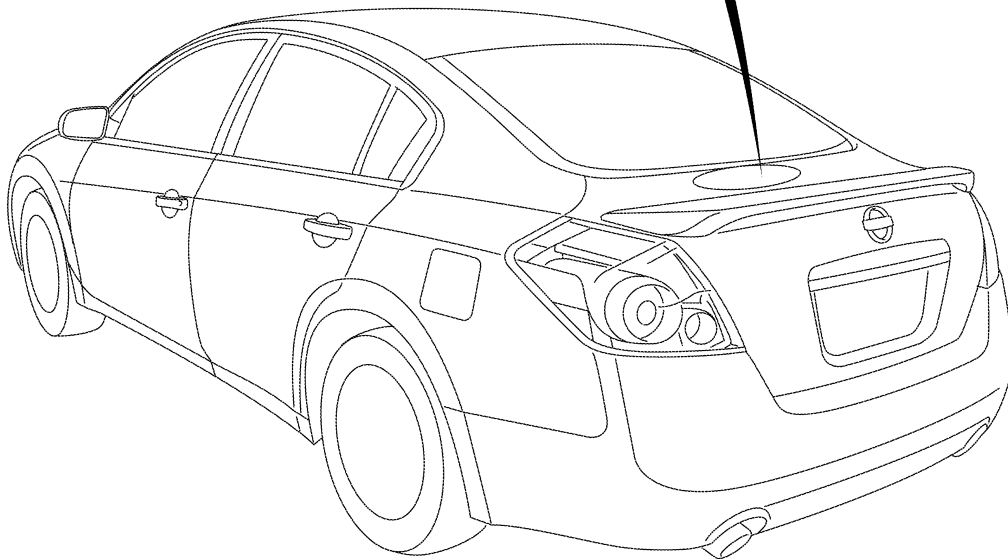
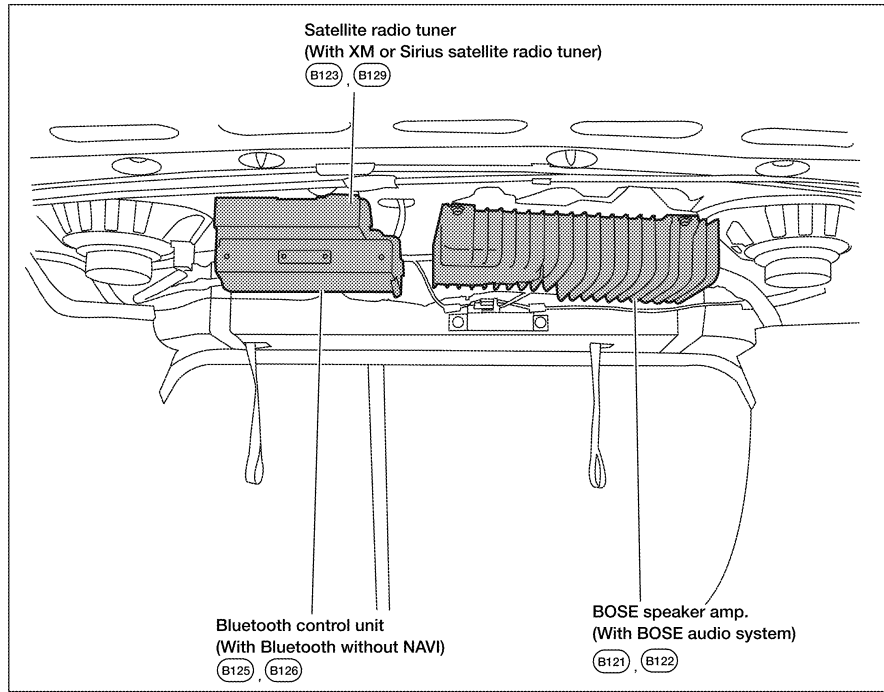
ALMIA0012GB



# ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >

LUGGAGE COMPARTMENT



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# HARNESS CONNECTOR

< COMPONENT DIAGNOSIS >

## HARNESS CONNECTOR

### Description

INFOID:000000000994775

#### HARNESS CONNECTOR (TAB-LOCKING TYPE)

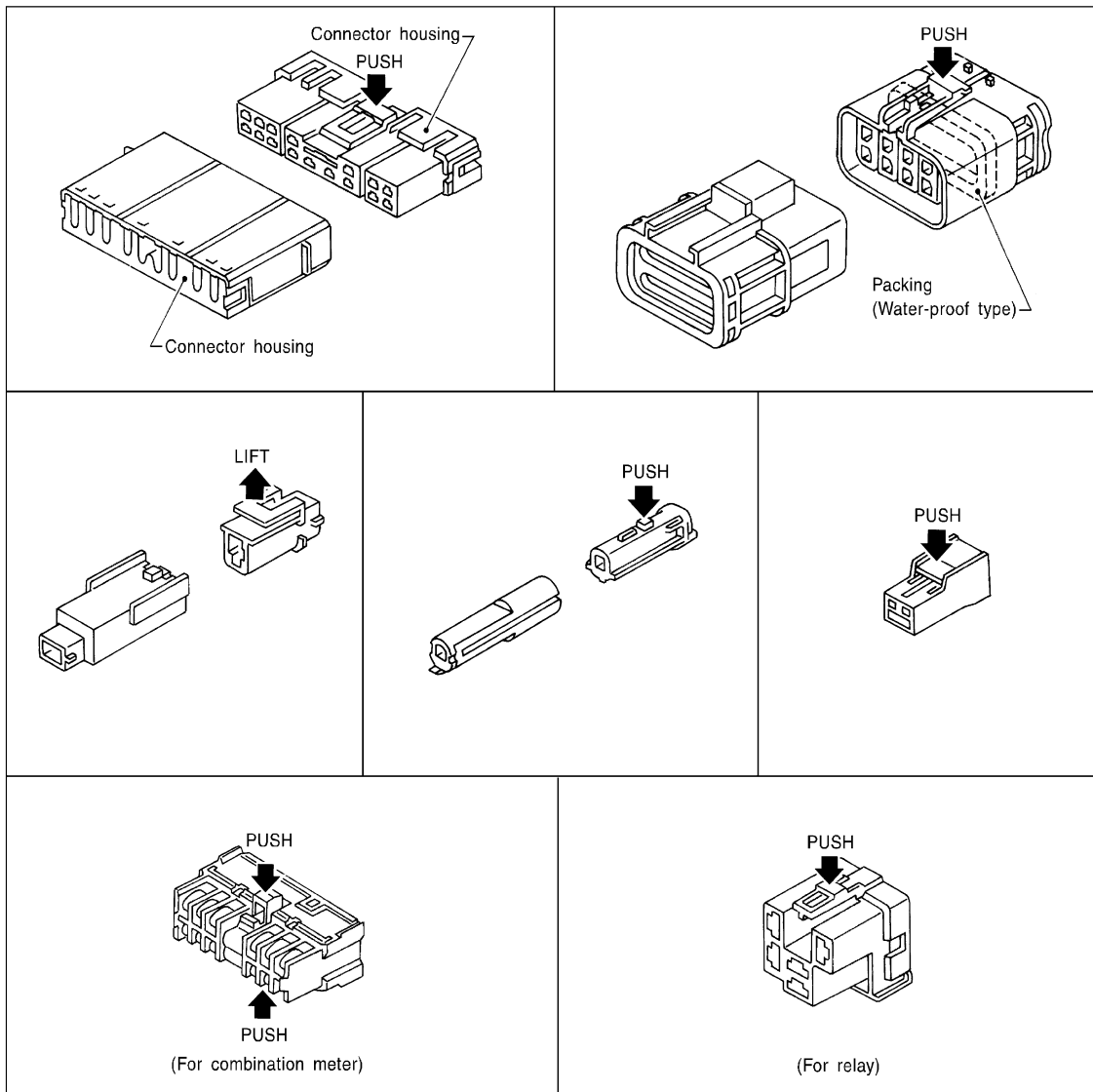
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

#### **CAUTION:**

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

[Example]



SEL769DA

#### HARNESS CONNECTOR (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.

# HARNESS CONNECTOR

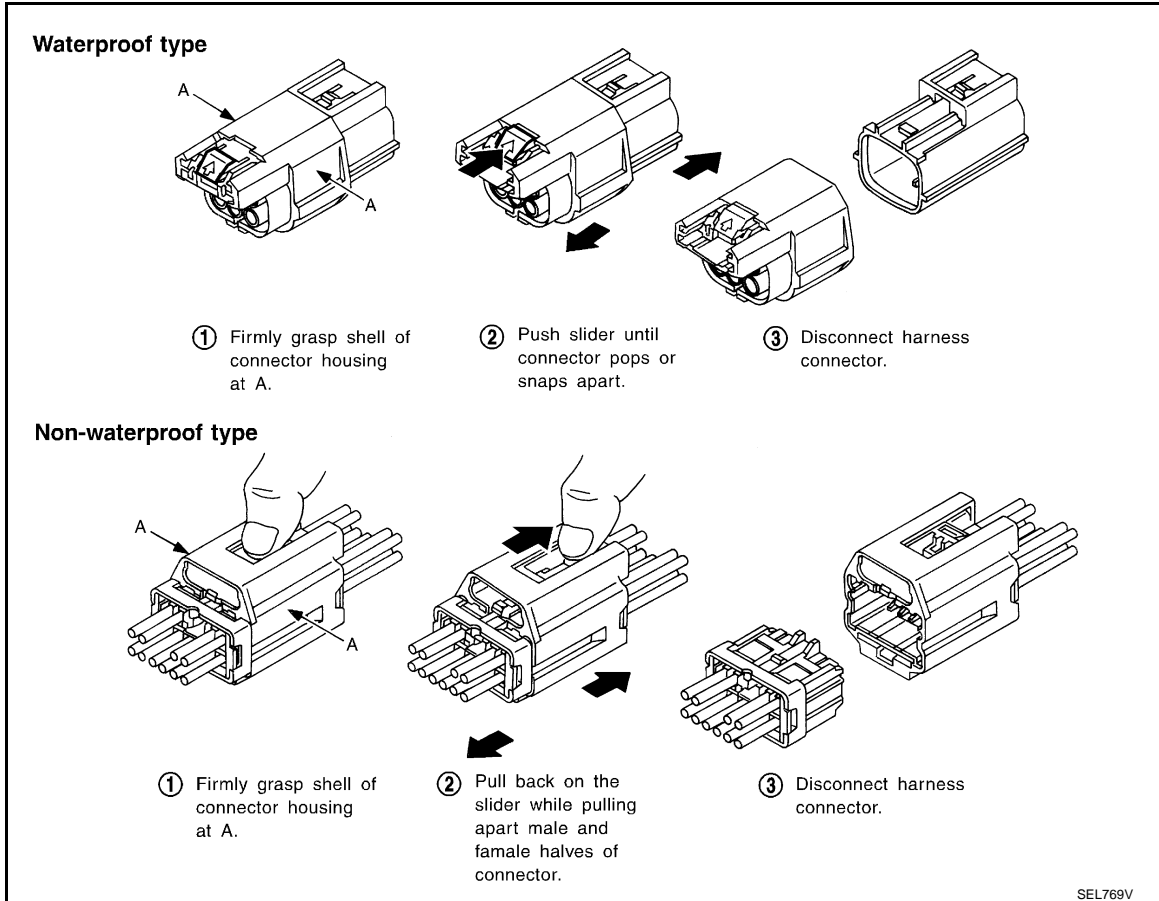
## < COMPONENT DIAGNOSIS >

- The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the figure below.

### CAUTION:

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

[Example]



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# STANDARDIZED RELAY

< COMPONENT DIAGNOSIS >

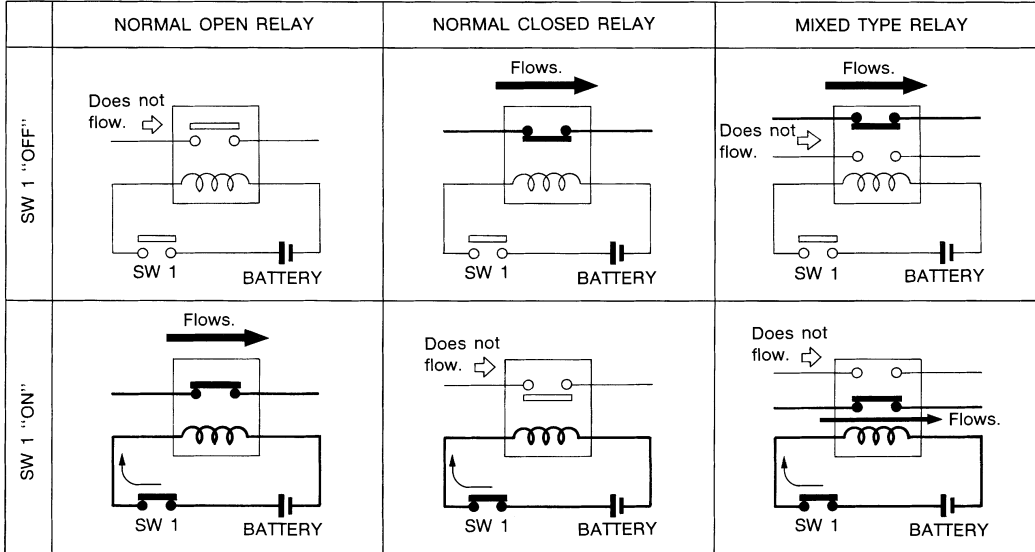
## STANDARDIZED RELAY

### Description

INFOID:000000000994776

### NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

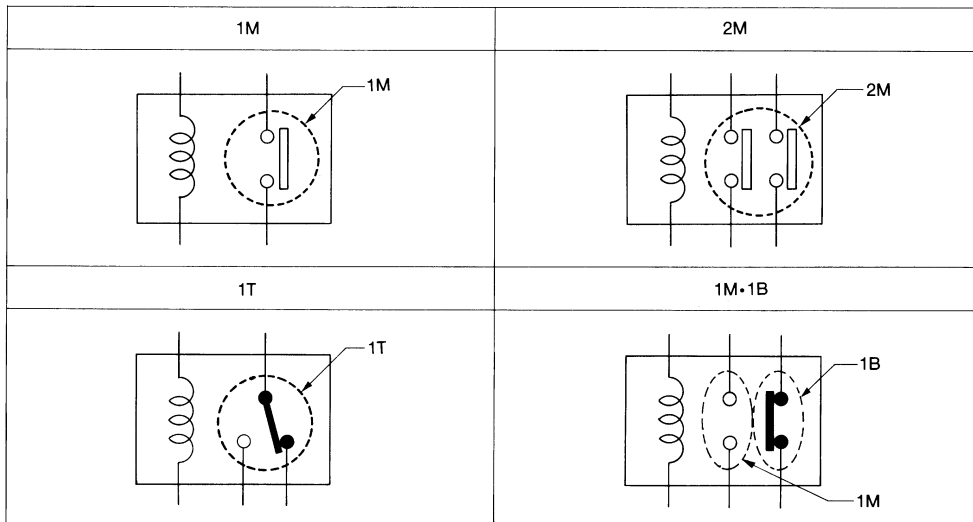
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



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### TYPE OF STANDARDIZED RELAYS

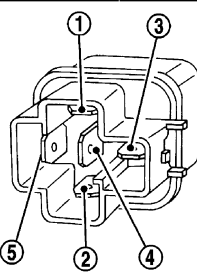
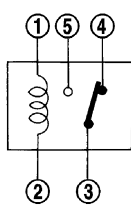
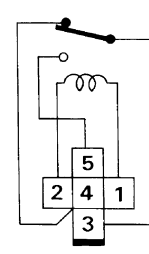
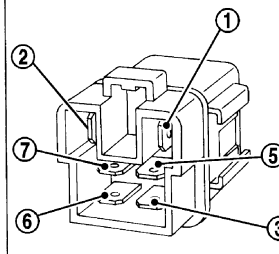
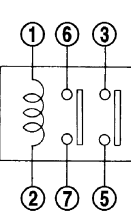
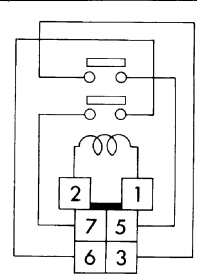
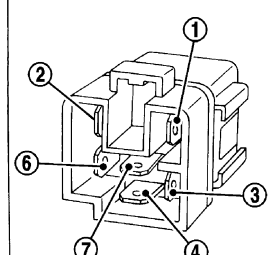
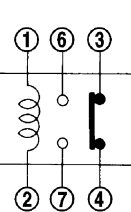
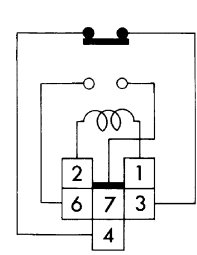
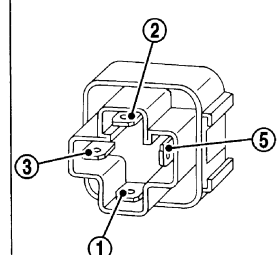
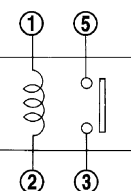
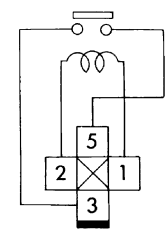
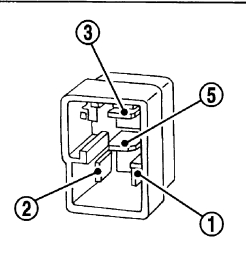
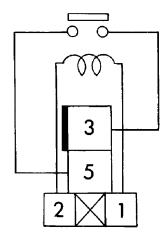
- 1M ..... 1 Make
- 1T ..... 1 Transfer
- 2M ..... 2 Make
- 1M·1B ..... 1 Make 1 Break



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# STANDARDIZED RELAY

## < COMPONENT DIAGNOSIS >

Type	Outer view	Circuit	Connector symbol and connection	Case color
1T				BLACK
2M				BROWN
1M•1B				GRAY
1M				BLUE
				

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

SEL188W

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
PG  
N  
O  
P

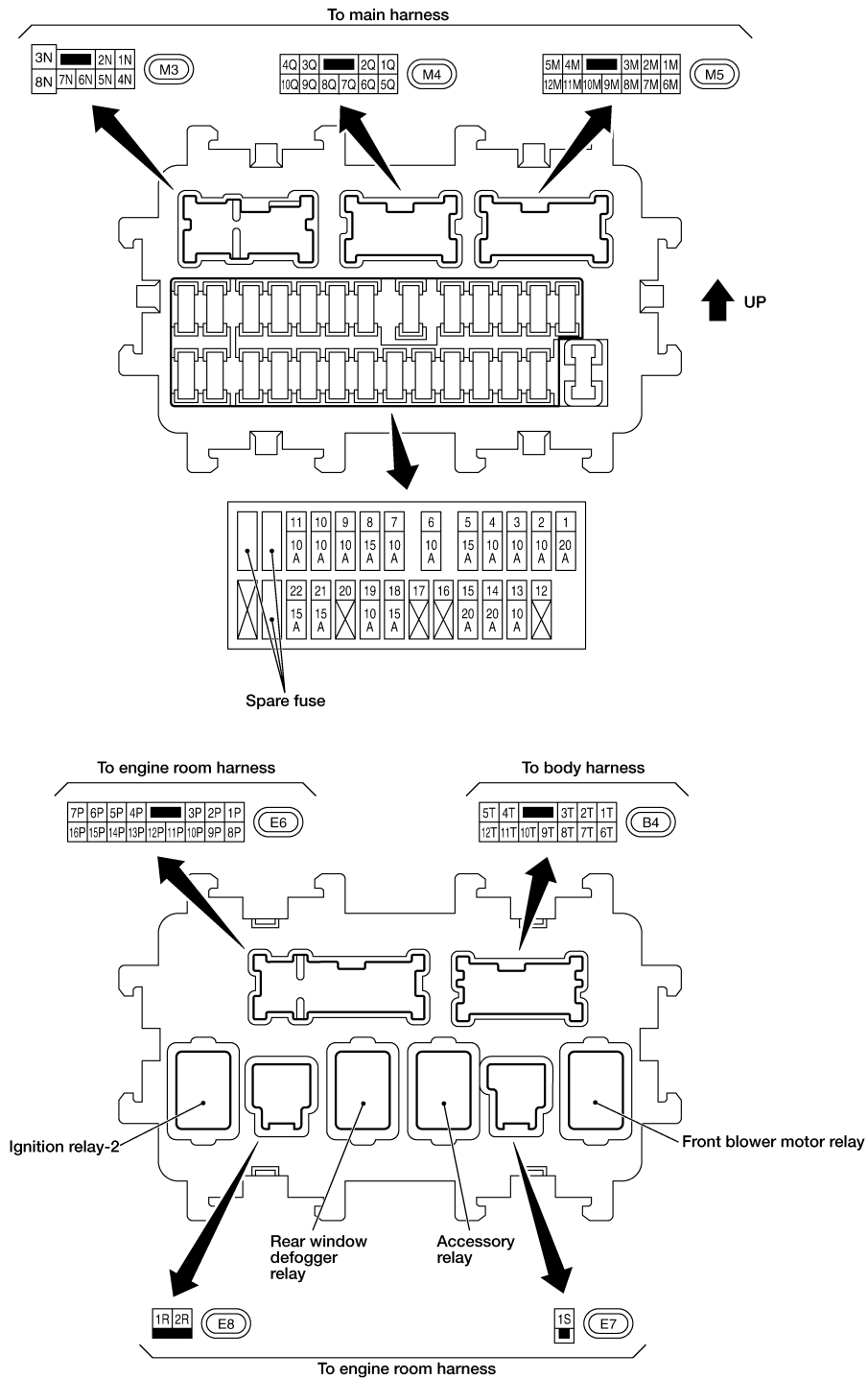
# FUSE BLOCK - JUNCTION BOX (J/B)

< COMPONENT DIAGNOSIS >

## FUSE BLOCK - JUNCTION BOX (J/B)

### Terminal Arrangement

INFOID:000000000994777



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# FUSE, FUSIBLE LINK AND RELAY BOX

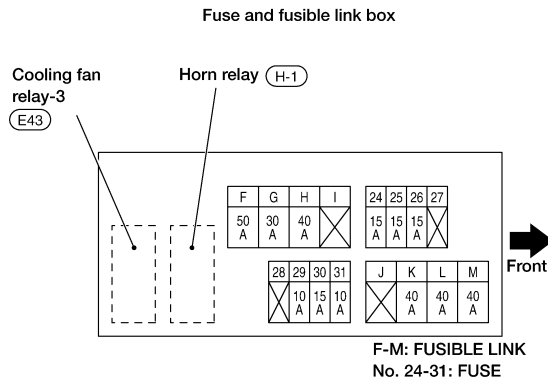
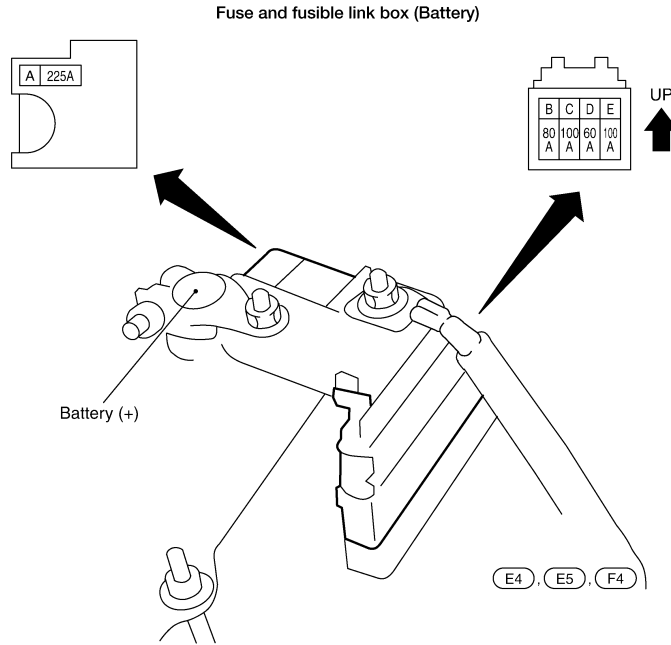
< COMPONENT DIAGNOSIS >

## FUSE, FUSIBLE LINK AND RELAY BOX

### Terminal Arrangement

INFOID:000000000994778

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
PG  
N  
O  
P



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# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

#### Supplemental Restraint System SRS "AIR BAG" and "SEAT BELT PRE-TENSIONER" Service

INFOID:000000000994779

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.**

#### Battery Service

INFOID:000000000994780

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.



# PREPARATION

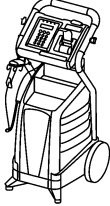
< PREPARATION >

## PREPARATION

### PREPARATION

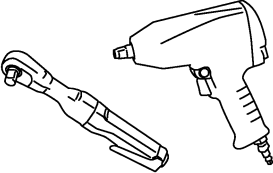
#### Special Service Tool

INFOID:000000000994781

Tool number (Kent Moore No.) Tool name	Description
<p>(J-48087) Battery Service Center</p>  <p>WKIA5280E</p>	<p>Tests Battery. For operating instructions, refer to Technical Service Bulletin and Battery Service Center User Guide.</p>

#### Commercial Service Tool

INFOID:000000000994782

Tool name	Description
<p>Power tool</p>  <p>PBIC0190E</p>	<p>Loosening bolts and nuts</p>

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
PG  
N  
O  
P

# BATTERY

< ON-VEHICLE REPAIR >

## ON-VEHICLE REPAIR

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### BATTERY

#### Removal and Installation

INFOID:000000000994783

#### REMOVAL

1. Loosen battery terminal nuts, and disconnect both battery cables from battery terminals.  
**CAUTION:**  
**When disconnecting, disconnect the battery cable from the negative terminal first.**
2. Remove air duct (front). Refer to [EM-24. "Removal and Installation"](#) QR25DE models, [EM-132. "Removal and Installation"](#) VQ35DE models.
3. Remove battery fix frame nuts and battery fix frame.
4. Remove battery.

#### INSTALLATION

Installation is the reverse order of removal.

**Battery fix frame nut : 3.92 N·m (0.4 kg-m, 35 in-lb)**

**Battery terminal nut : 5.4 N·m (0.55 kg-m, 48 in-lb)**

#### **CAUTION:**

**When connecting, connect the battery cable to the positive terminal first.**

# BATTERY

< SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### BATTERY

#### Battery

INFOID:000000000994784

Type	GR.35 (BCI)
Capacity (5 HR) minimum V-AH	52
Cold cranking current A (For reference value)	525

A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
PG  
N  
O  
P