

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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## BASIC INSPECTION

### BATTERY

#### How to Handle Battery

INFOID:000000005434702

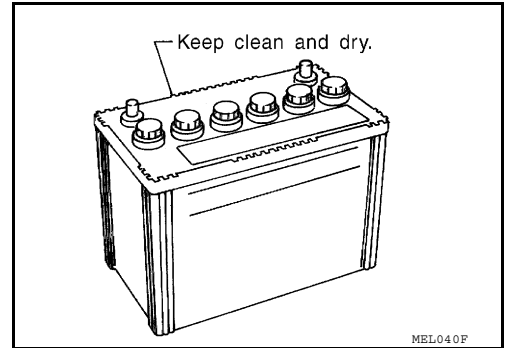
**CAUTION:**

- 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.

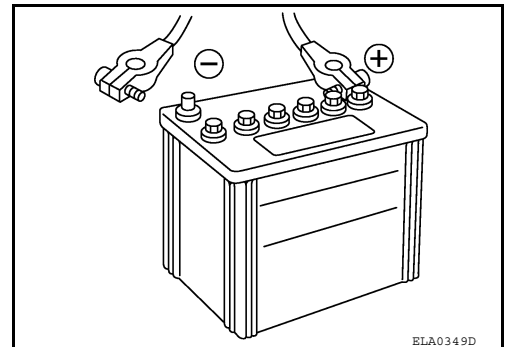
#### METHODS OF PREVENTING OVER-DISCHARGE

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

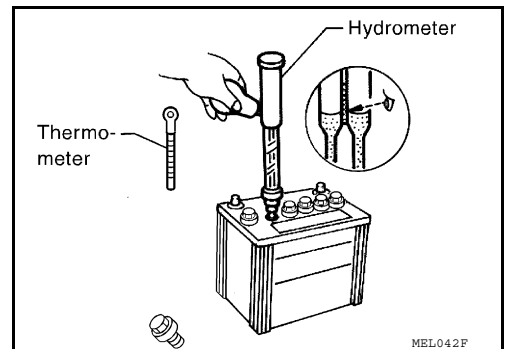
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level. This also applies to batteries designated as "low maintenance" and "maintenance-free".



- 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.

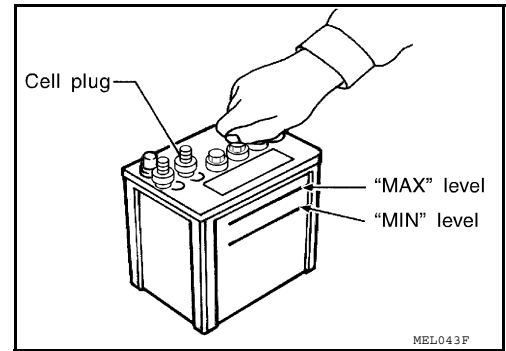
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# BATTERY

[COUPE]

## < BASIC INSPECTION >

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

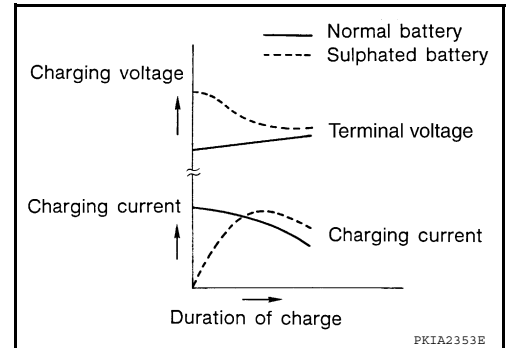


### Sulphation

**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.**

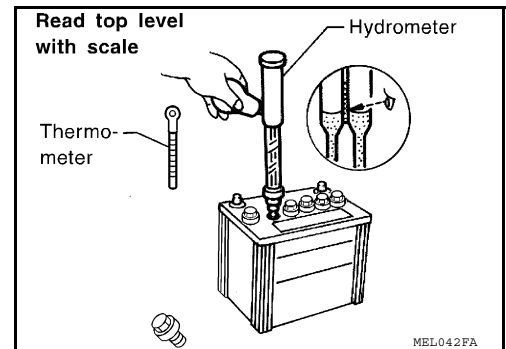
**To determine if a battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.**

**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

# BATTERY

[COUPE]

## < 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 MULTITASKING BATTERY DIAGNOSTIC STATION

Refer to diagnostic station instruction manual.

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# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[COUPE]

## INSPECTION AND ADJUSTMENT

### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

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#### Required Procedure After Battery Disconnection

System	Item	Reference
Engine Control	Idle Air Volume Learning	Refer to <a href="#">EC-32</a> , "IDLE AIR VOLUME LEARNING : Special Repair Requirement" (QR25DE for california), <a href="#">EC-575</a> , "IDLE AIR VOLUME LEARNING : Special Repair Requirement" (QR25DE except for california) or <a href="#">EC-1069</a> , "IDLE AIR VOLUME LEARNING : Special Repair Requirement" (VQ35DE).
Glass, Window & Mirrors	Power Window System Initialization	Refer to <a href="#">PWC-12</a> (LH only anti-pinch) or <a href="#">PWC-169</a> (LH & RH anti-pinch).
Roof	Sunroof Memory Reset/Initialization	Refer to <a href="#">RF-6</a> .
Automatic Temperature Control	Temperature Setting Trimmer	Refer to <a href="#">HAC-6</a> .
	Foot Position Setting Trimmer	Refer to <a href="#">HAC-6</a> .
	Inlet Port Memory Function	Refer to <a href="#">HAC-6</a> .
Audio-Visual System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation system	Refer to Owner's Manual.
	Rear View Monitor Guiding Line Adjustment	Refer to <a href="#">AV-267</a> .

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

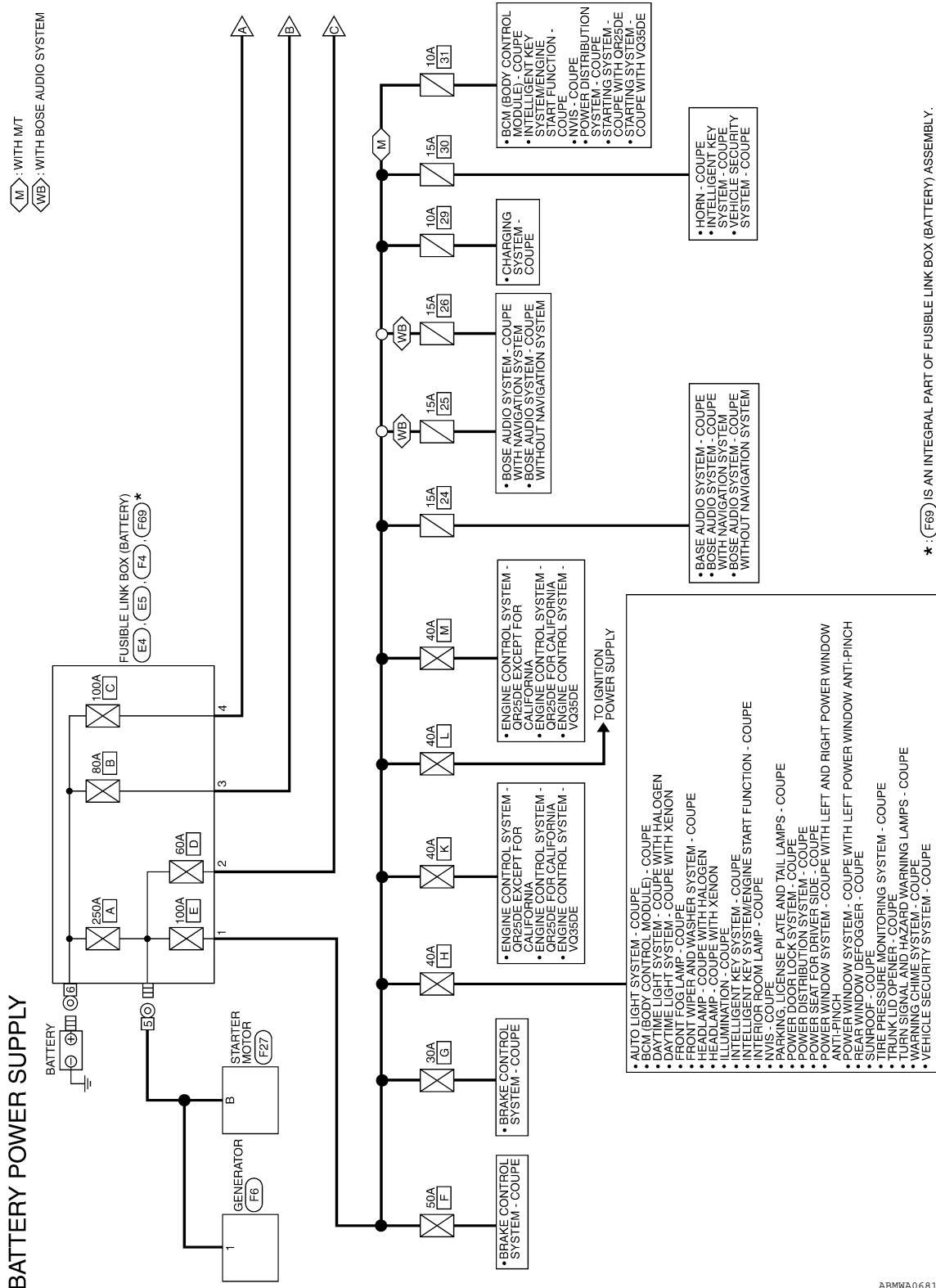
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## COMPONENT DIAGNOSIS

### POWER SUPPLY ROUTING CIRCUIT

#### Wiring Diagram —Battery Power Supply—

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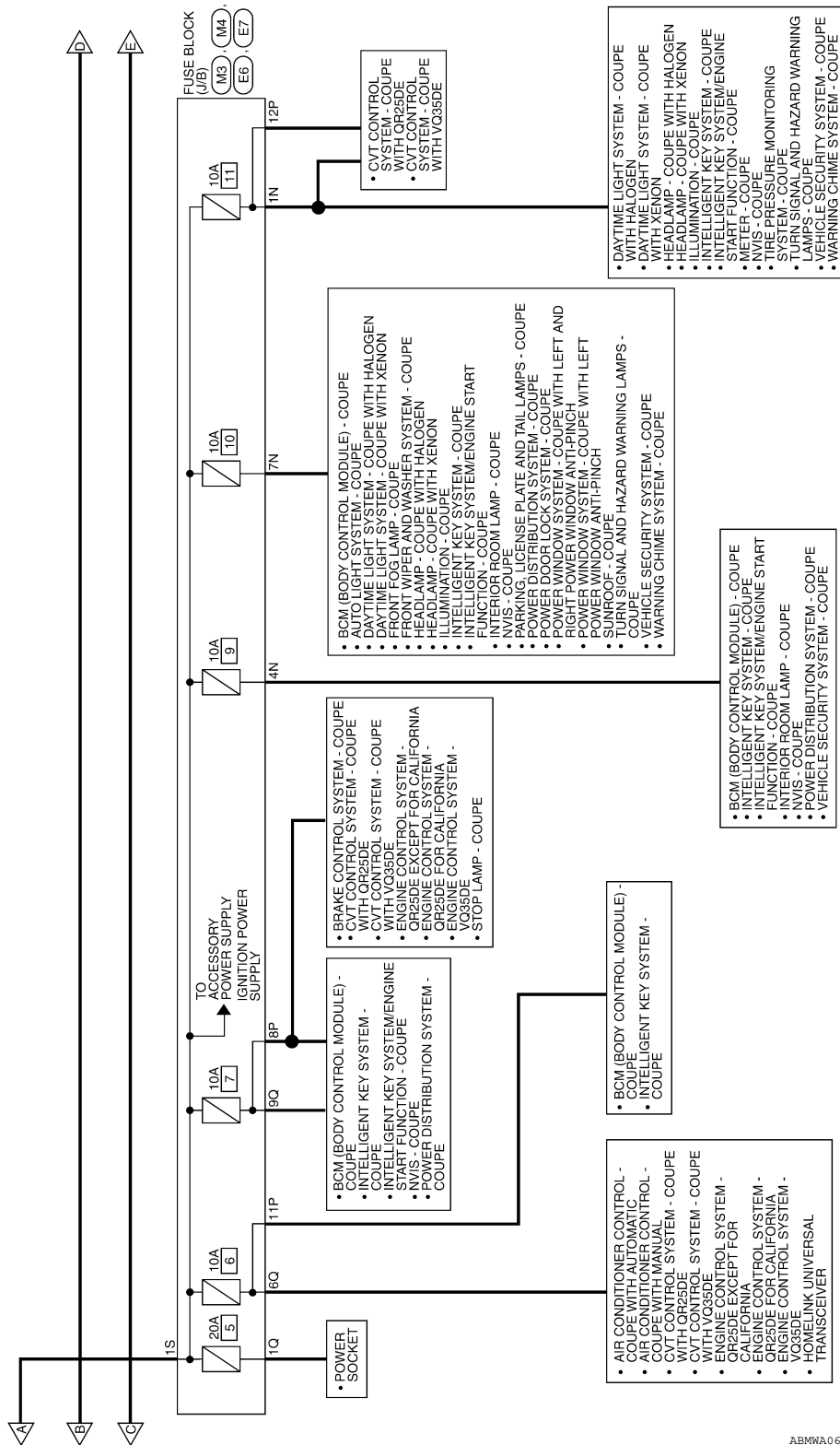
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[COUPE]



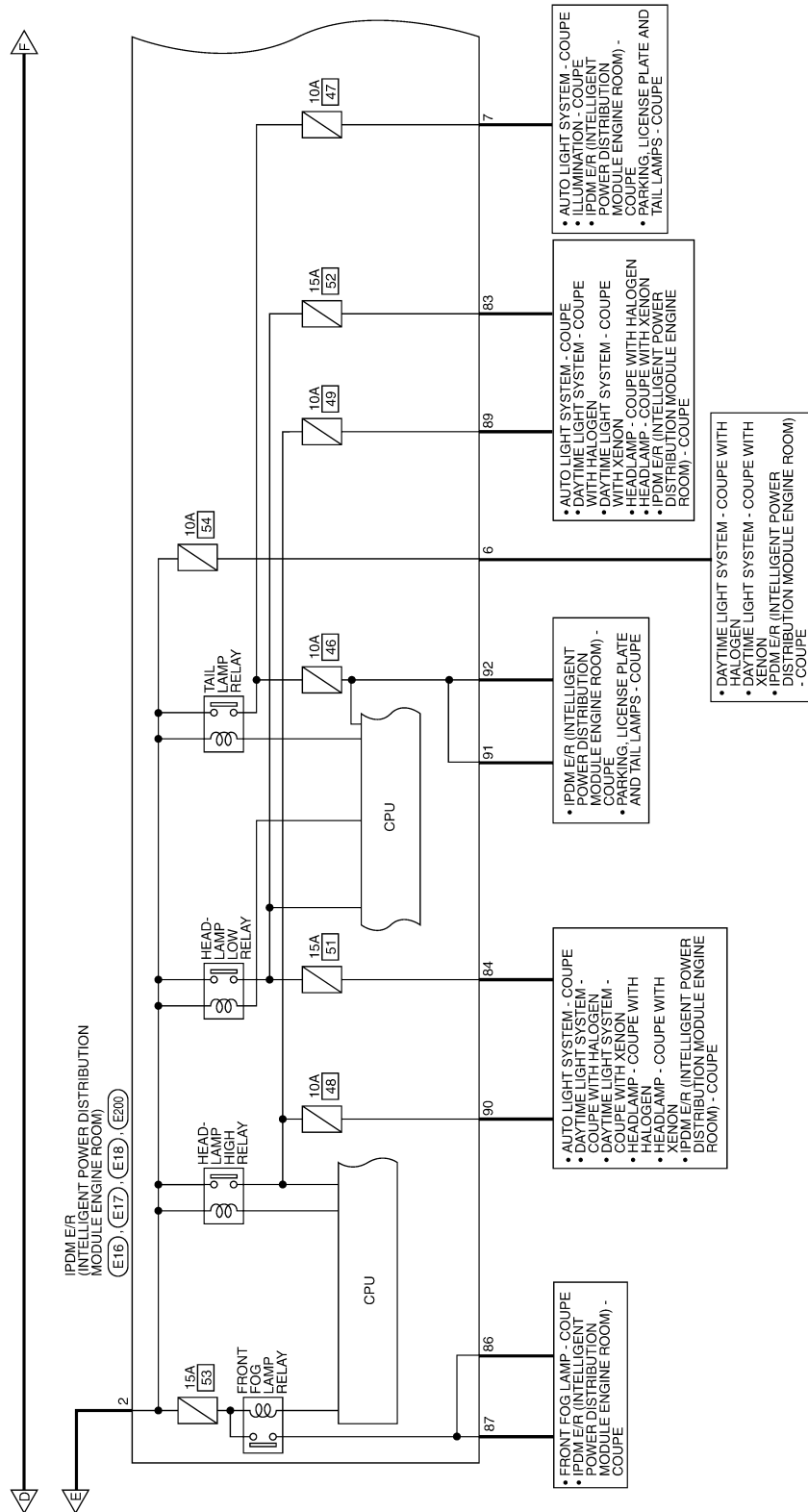
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# POWER SUPPLY ROUTING CIRCUIT

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[COUPE]



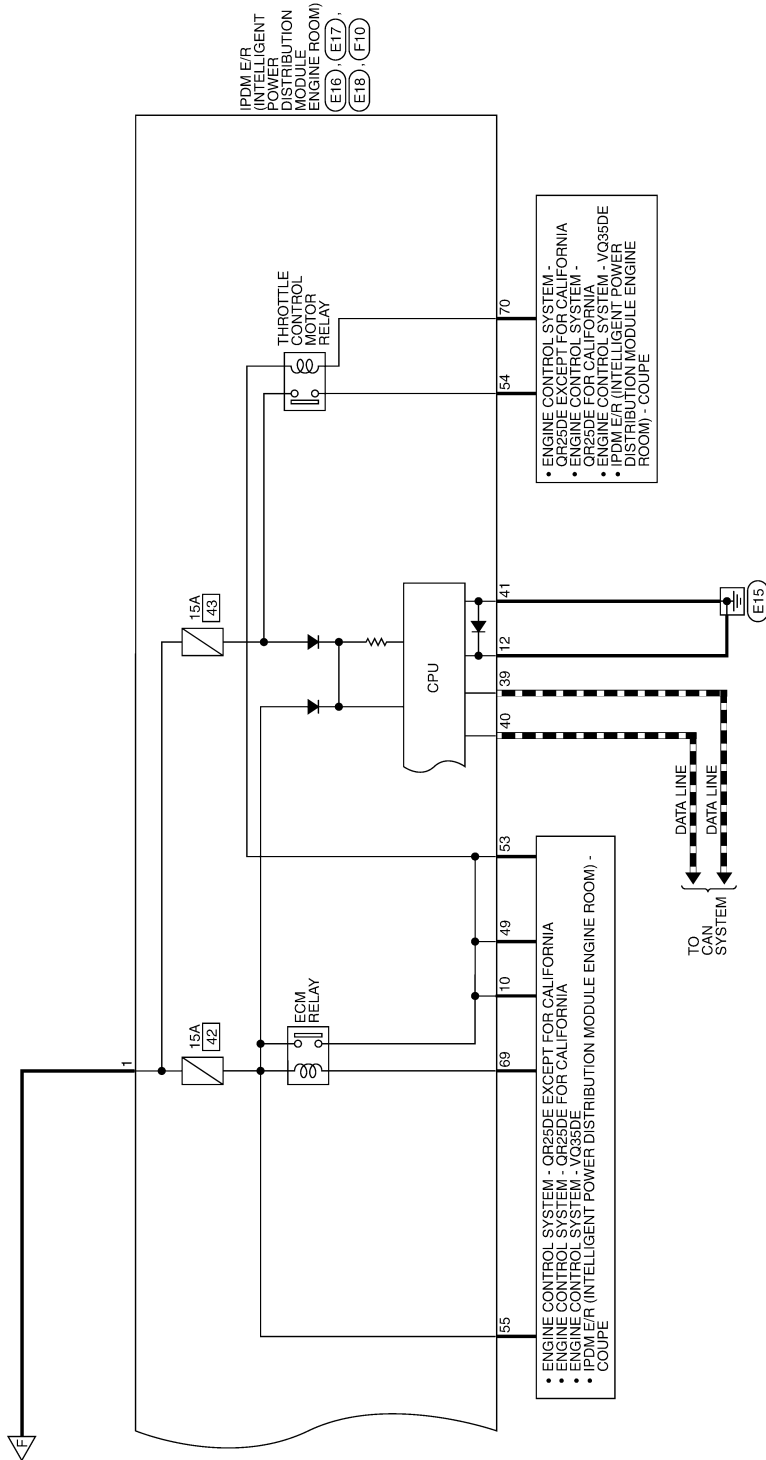
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

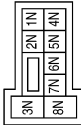
[COUPE]



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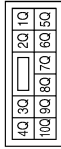
BATTERY POWER SUPPLY CONNECTORS

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	L	-

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	R	-
11P	G	-
12P	V	-

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 >

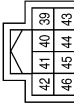
[COUPE]

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



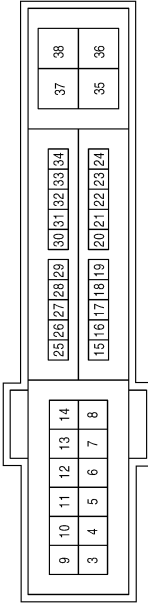
Terminal No.	Color of Wire	Signal Name
1	R	F/L_MAIN
2	L	F/L_USM

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	GND (SIGNAL)

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	GR	TAIL/LLUMI
10	BR	ECM VB
12	B	GND (POWER)

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 >

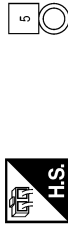
[COUPE]

Connector No.	F6
Connector Name	GENERATOR
Connector Color	-



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

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



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

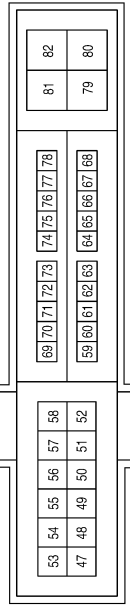
Connector No.	F27
Connector Name	STARTER MOTOR
Connector Color	-



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

Terminal No.	Color of Wire	Signal Name
49	V	IGN COIL (WITH VQ35DE)
49	V	ENG SOL (WITH QR25DE)
53	V	IGN COIL (WITH QR25DE)
53	G	ENG SOL (WITH VQ35DE)
54	GR	ETC
55	LG	ECM BAT
69	SB	SSOF
70	G	MOTRLY

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



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# POWER SUPPLY ROUTING CIRCUIT

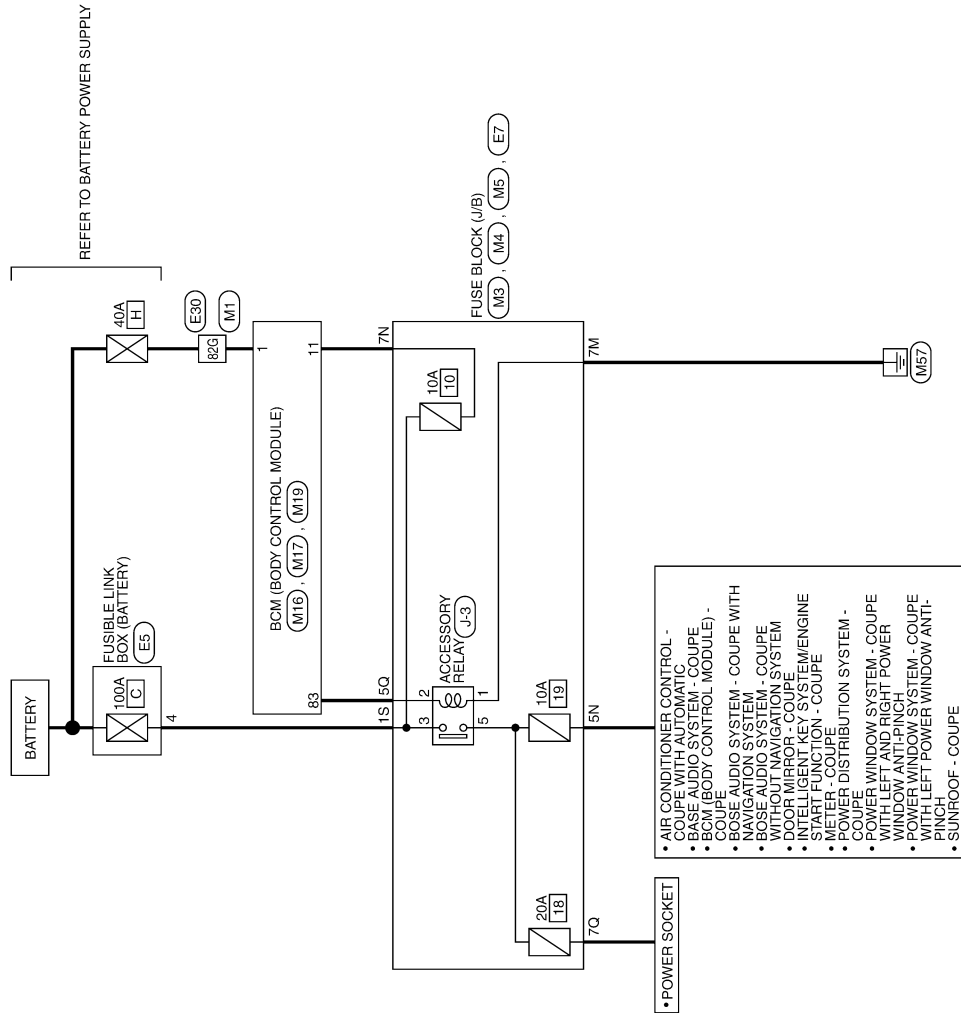
[COUPE]

< COMPONENT DIAGNOSIS >

## Wiring Diagram —Accessory Power Supply—

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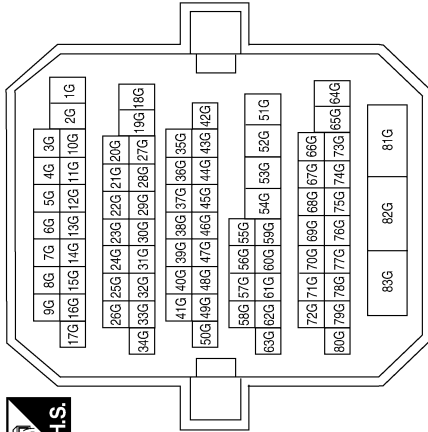
### ACCESSORY POWER SUPPLY



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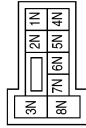
ACCESSORY POWER SUPPLY CONNECTORS

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



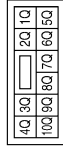
Terminal No.	Color of Wire	Signal Name
82G	W/B	-

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



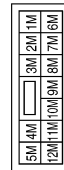
Terminal No.	Color of Wire	Signal Name
5N	V/Y	-
7N	Y/R	-

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

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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[COUPE]

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



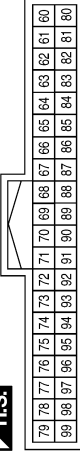
Terminal No.	Color of Wire	Signal Name
1S	W	-

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



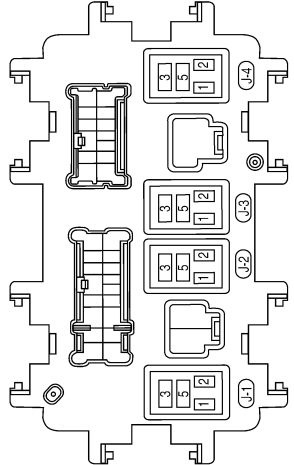
Terminal No.	Color of Wire	Signal Name
4	W	-

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



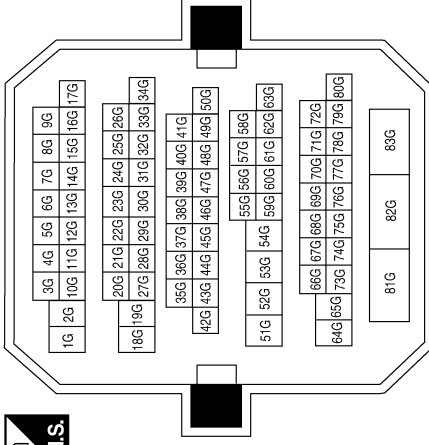
Terminal No.	Color of Wire	Signal Name
83	L	ACC_CONT

Connector No.	J-3
Connector Name	FUSE BLOCK (J/B) (ACCESSORY RELAY)
Connector Color	-



Terminal No.	Color of Wire	Signal Name
82G	LG	-

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



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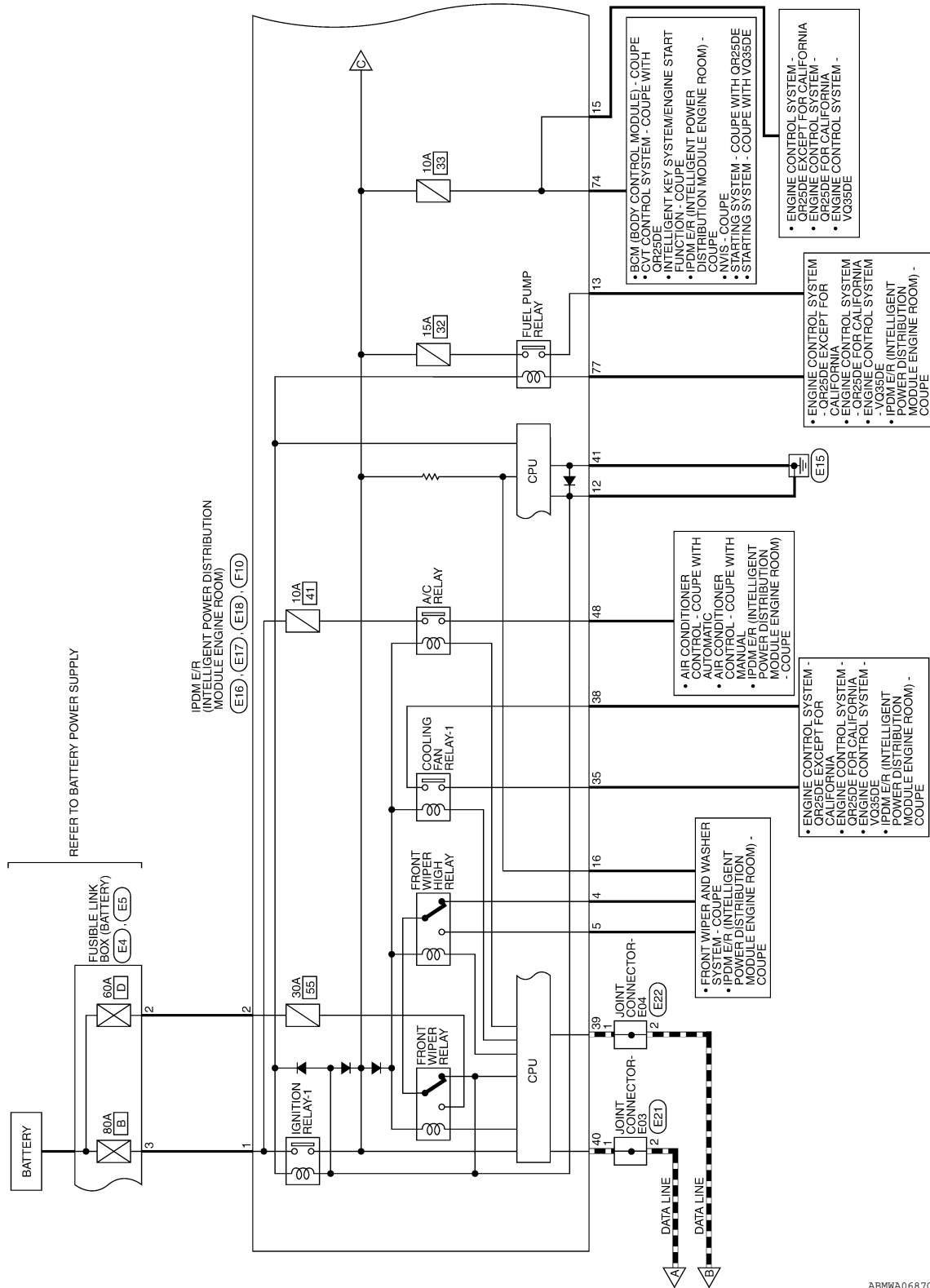




# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[COUPE]

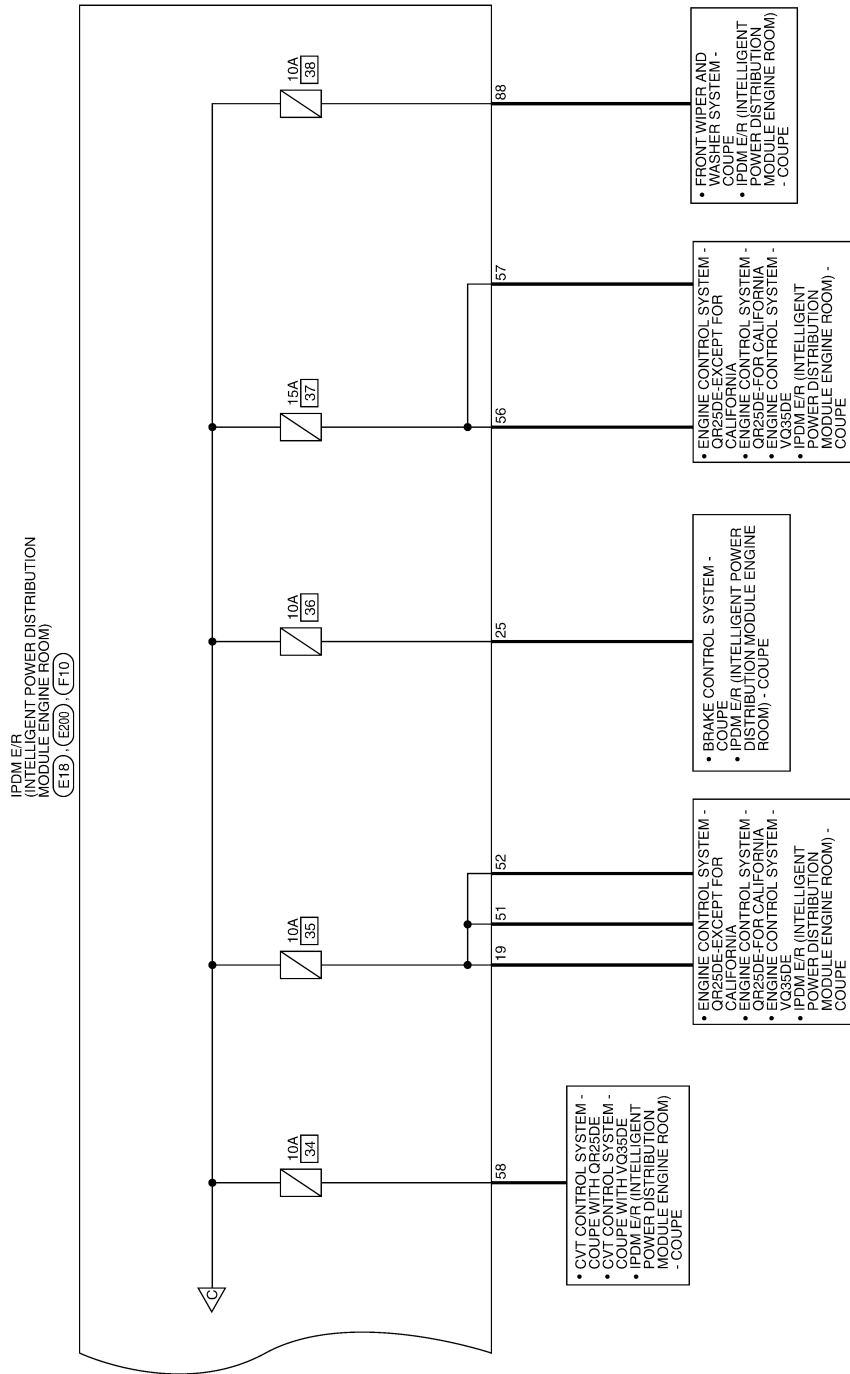


ABMWA0687GB

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[COUPE]

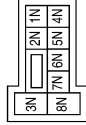
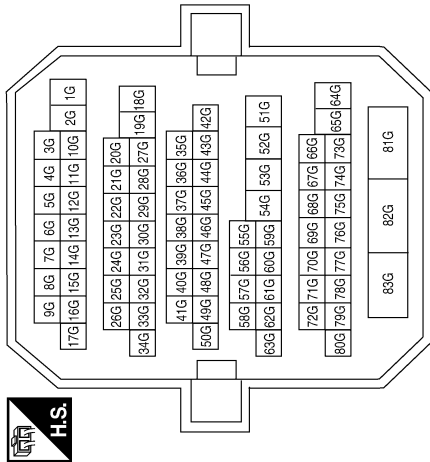


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IGNITION POWER SUPPLY CONNECTORS

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

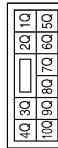


Terminal No.	Color of Wire	Signal Name
8G	P	-
15G	L	-
23G	Y	-
82G	W/B	-

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	O	-

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


ABMIA1796GB

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[COUPE]


Connector No.	M19
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.	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.	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.	E5
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



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


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



1	2
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Terminal No.	Color of Wire	Signal Name
2	L	-

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	-

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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[COUPE]

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



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

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



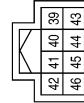
Terminal No.	Color of Wire	Signal Name
1S	W	-

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



Terminal No.	Color of Wire	Signal Name
4P	P	-(WITH M/T)
4P	G/R	-(WITH CVT)
6P	Y	-

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	GND (SIGNAL)

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	L	F/L_USM

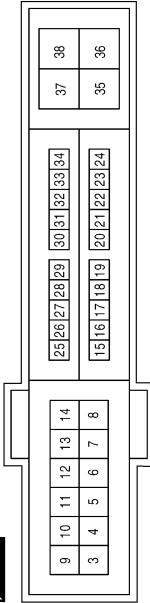
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[COUPE]

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



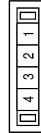
Terminal No.	Color of Wire	Signal Name
4	LG	FR WIPER LO
5	Y	FR WIPER HI
12	B	GND (POWER)
13	SB	FUEL PUMP
15	W	START IG-E/R
16	L/Y	WIPER AUTOSTOP
19	Y	BCM IGNSW
25	GR	ABS ECU
35	P	MOTOR FAN LO
38	R/W	F/L MOTOR FAN

Connector No.	E21
Connector Name	JOINT CONNECTOR-E03
Connector Color	WHITE



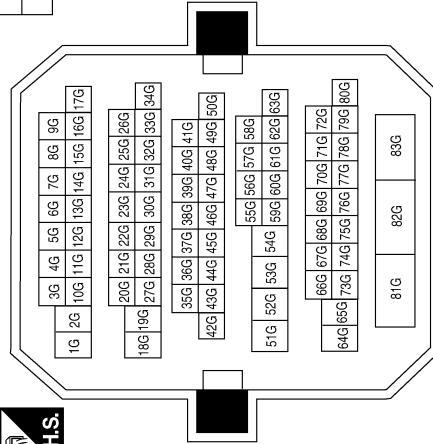
Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Connector No.	E22
Connector Name	JOINT CONNECTOR-E04
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

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



Terminal No.	Color of Wire	Signal Name
8G	P	-
15G	L	-
23G	Y	-
82G	LG	-

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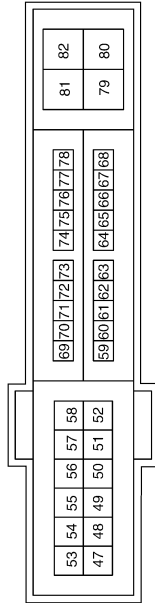
# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

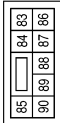
[COUPE]

Terminal No.	Color of Wire	Signal Name
48	W	A/C COMP
51	SB	INJECTOR #1
52	Y	INJECTOR #2
56	R	O2 SENS #1
57	O	O2 SENS #2
58	BR	AT ECU
74	L	START IG-EGI
77	GR	FPR

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

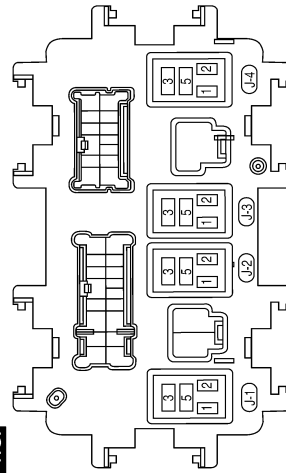


Connector No.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



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

Connector No.	J-1
Connector Name	FUSE BLOCK (J/B) (IGNITION RELAY-2)
Connector Color	-



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



Terminal No.	Color of Wire	Signal Name
10T	Y	-
11T	Y	-

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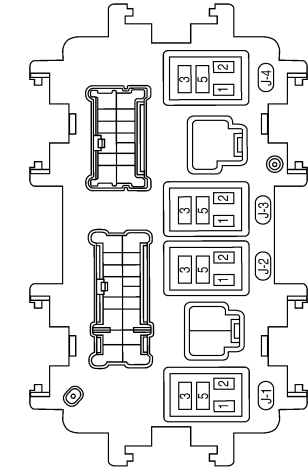
# POWER SUPPLY ROUTING CIRCUIT

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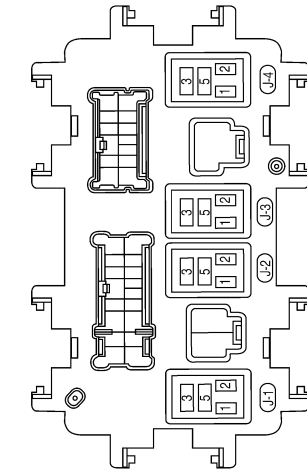
[COUPE]

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Connector No.	J-4
Connector Name	FUSE BLOCK (J/B) (FRONT BLOWER MOTOR RELAY)
Connector Color	



Connector No.	J-2
Connector Name	FUSE BLOCK (J/B) (REAR WINDOW DEFOGGER RELAY)
Connector Color	-



PG

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# POWER SUPPLY ROUTING CIRCUIT

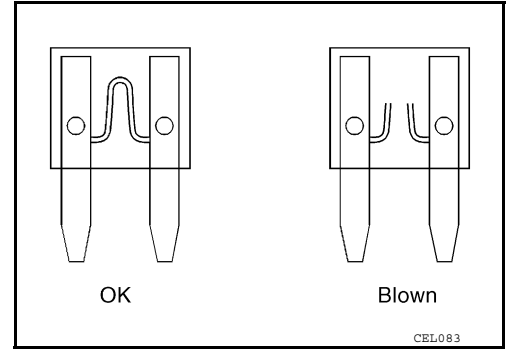
< COMPONENT DIAGNOSIS >

[COUPE]

## Fuse

INFOID:000000005434708

- 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

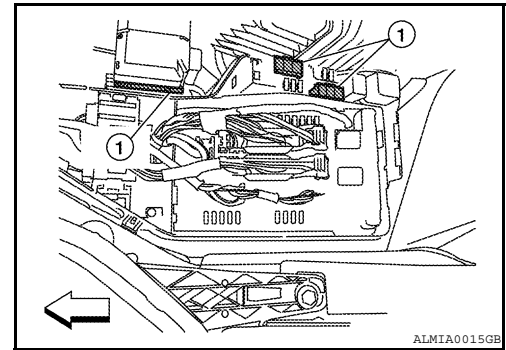
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A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

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.

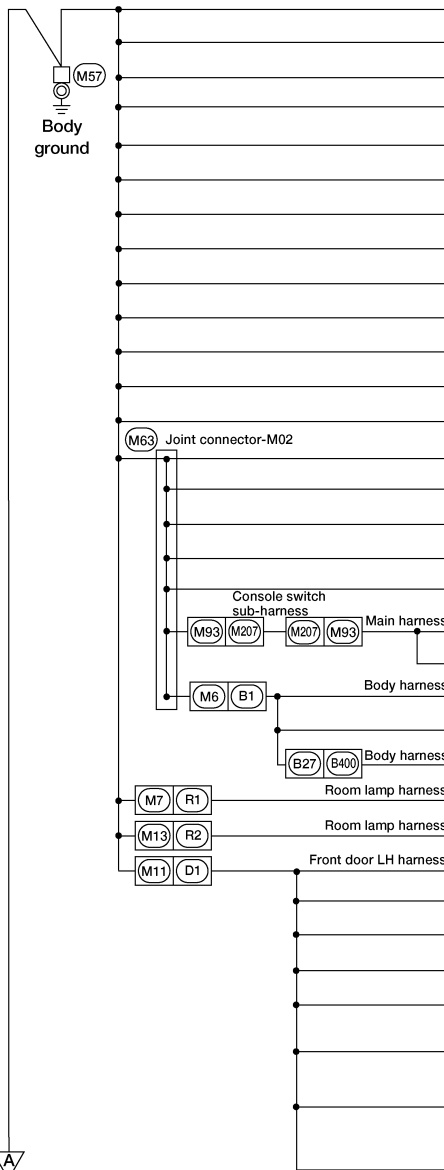
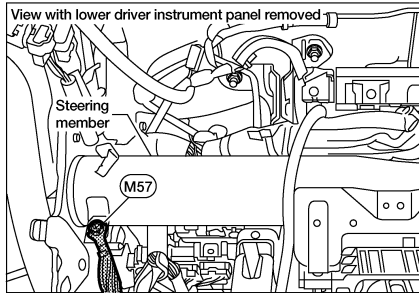


GROUND

Ground Distribution

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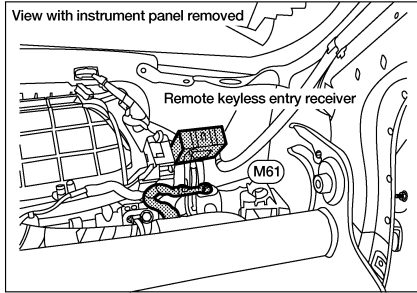
MAIN HARNESS



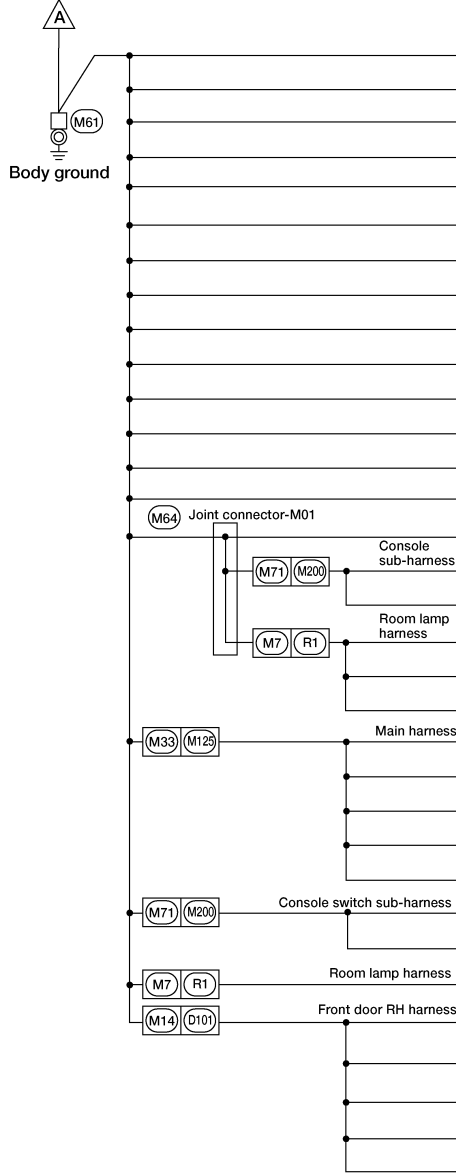
CONNECTOR NUMBER	CONNECT TO
M5	Fuse block (J/B)
M17	BCM (body control module) (Terminal No. 13)
M22	Data link connector (Terminal No. 4)
M22	Data link connector (Terminal No. 5)
M24	Combination meter (Terminal No. 3)
M24	Combination meter (Terminal No. 4)
M24	Combination meter (Terminal No. 23)
M28	Combination switch
M31	Blower motor
M40	Key slot
M75	Trunk lid opener cancel switch
M133	Audio unit (Terminal No. 40 ) (BOSE audio system without NAVI)
M133	Audio unit (Terminal No. 48 ) (BOSE audio system without NAVI)
M53	Steering angle sensor
M55	Yaw rate/side/decel G sensor
M119	AV control unit (Terminal No. 20) (BOSE audio system with NAVI)
M132	Audio unit (Terminal No. 20) (BOSE audio system without NAVI)
M133	Audio unit (Terminal No. 27) (BOSE audio system without NAVI)
M122	AV control unit (Terminal No. 77) (BOSE audio system with NAVI)
M123	AV control unit (Terminal No. 128) (BOSE audio system with NAVI)
B30	Rear combination lamp LH
B45	Rear combination lamp RH
B401	High mounted stop lamp (without rear spoiler)
R14	Interior room lamp
R5	Sunroof motor assembly
D4	Door mirror LH (Terminal No. 8)
D4	Door mirror LH (Terminal No. 2)
D5	Door mirror remote control switch
D17	Outside handle LH
D25	Door lock assembly LH (with left power window anti-pinch system)
D26	Door lock assembly LH (with left and right power window anti-pinch system)
D27	Main power window and door lock/unlock switch (Terminal No. 10) (with left power window anti-pinch system)
D28	Main power window and door lock/unlock switch (Terminal No. 15) (with left and right power window anti-pinch system)

Next page

ABMIA1808GB



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CONNECTOR NUMBER	CONNECT TO
(M23)	CVT shift selector (Terminal No. 4)
(M23)	CVT shift selector (Terminal No. 7)
(M35)	Air bag diagnosis sensor unit (Terminal No. 2)
(M36)	Front passenger air bag off indicator
(M37)	Front air control (Terminal No. 6) (without auto A/C)
(M37)	Front air control (Terminal No. 7) (without auto A/C)
(M38)	Push-button ignition switch
(M54)	Hazard switch
(M59)	Power steering control unit (Terminal No. 6)
(M68)	Glove box lamp
(M74)	Trunk lid opener cancel switch
(M76)	Front power socket
(M152)	Front air control (Terminal No. 17) (with auto A/C)
(M152)	Front air control (Terminal No. 37) (with auto A/C)
(M72)	VDC off switch
(M201)	Heated seat switch LH
(M202)	Heated seat switch RH
(R3)	Vanity mirror lamp LH
(R4)	Auto anti-dazzling inside mirror
(R9)	Vanity mirror lamp RH
(M126)	Intake door motor
(M127)	Mode door motor
(M128)	Air mix door motor LH
(M129)	Air mix door motor RH
(M130)	Air mix door motor
(M203)	Front console antenna shield
(M209)	Front console power socket
(R7)	Microphone shield
(D105)	Power window and door lock/unlock switch RH (Terminal No. 11) (with left and right power window anti-pinch system)
(D107)	Door mirror RH (Terminal No. 2)
(D107)	Door mirror RH (Terminal No. 8)
(D110)	Power window and door lock/unlock switch RH (with left power window anti-pinch system)
(D116)	Outside handle RH

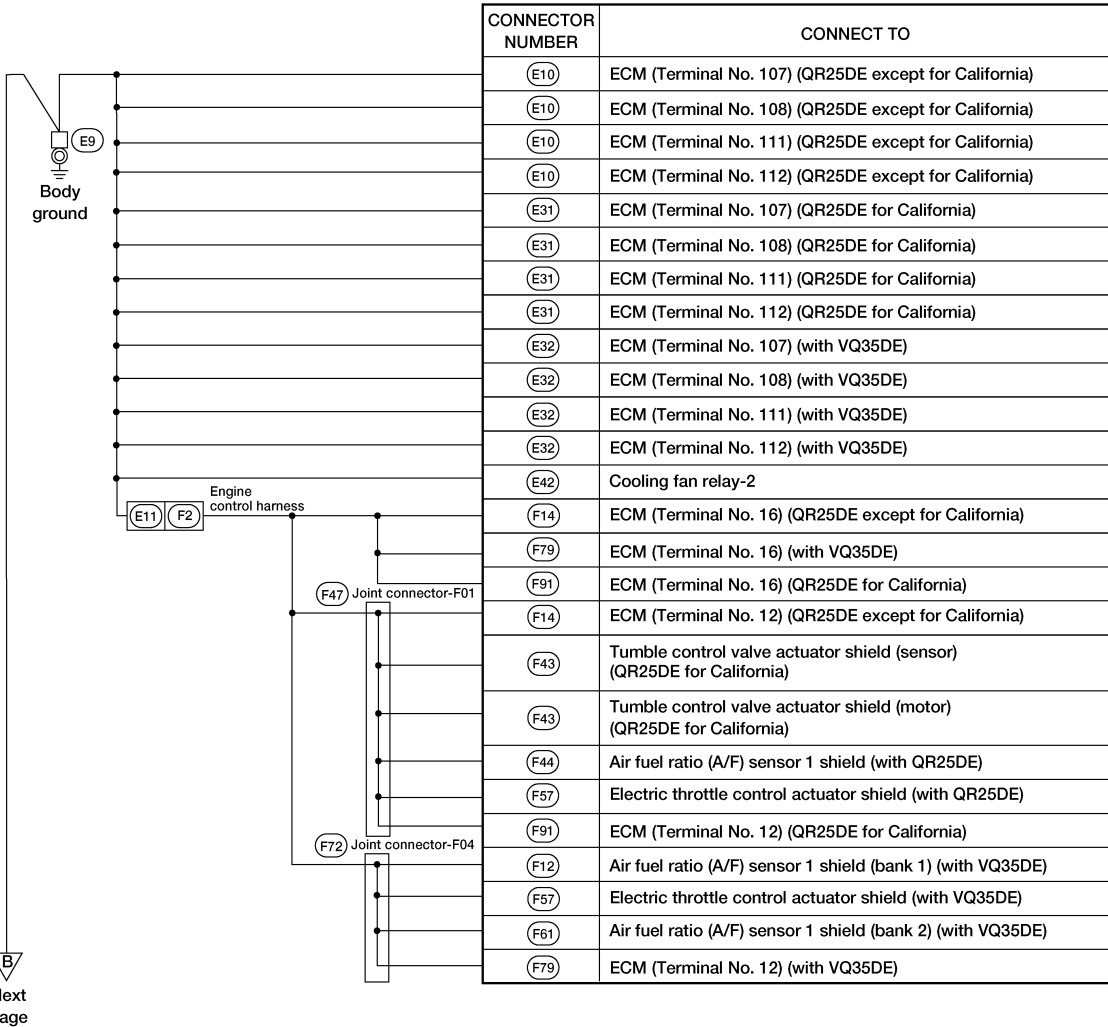
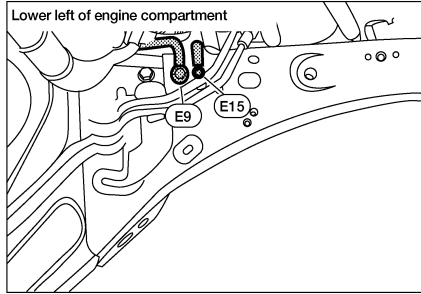
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# GROUND

[COUPE]

## < COMPONENT DIAGNOSIS >

### ENGINE ROOM HARNESS

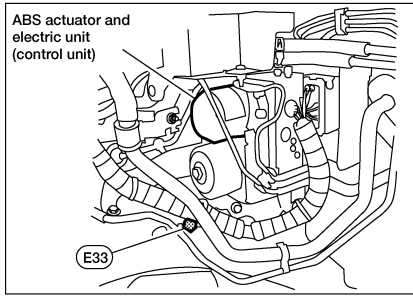
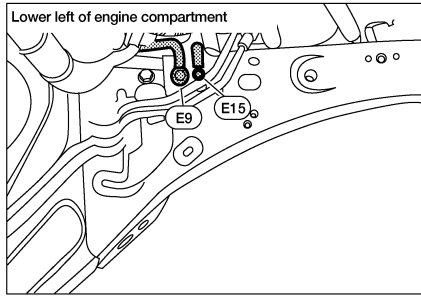


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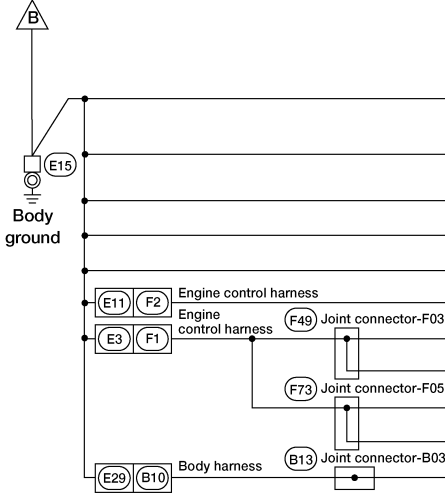
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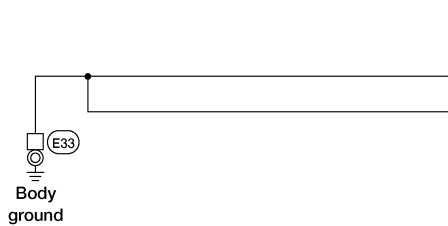
# GROUND



Preceding page



CONNECTOR NUMBER	CONNECT TO
E17	IPDM E/R (intelligent power distribution module engine room) (Terminal No. 41)
E18	IPDM E/R (intelligent power distribution module engine room) (Terminal No. 12)
E24	Brake fluid level switch
E25	Front wiper motor
E43	Cooling fan relay-3
F3	A/C compressor
F16	TCM (transmission control module) (Terminal No. 5) (with QR25DE)
F16	TCM (transmission control module) (Terminal No. 42) (with QR25DE)
F33	TCM (transmission control module) (Terminal No. 5) (with VQ35DE)
F33	TCM (transmission control module) (Terminal No. 42) (with VQ35DE)
B42	Fuel level sensor unit and fuel pump



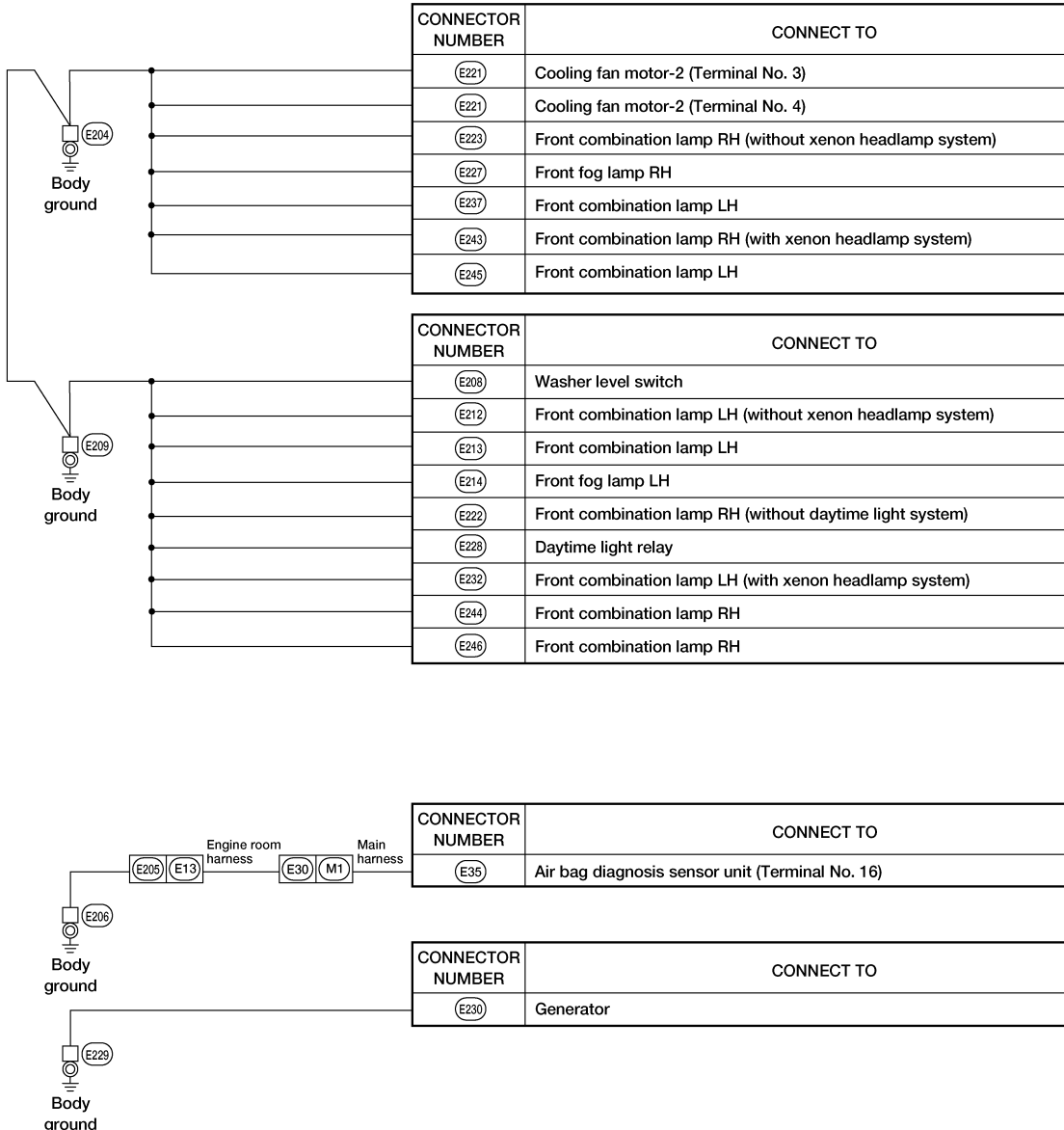
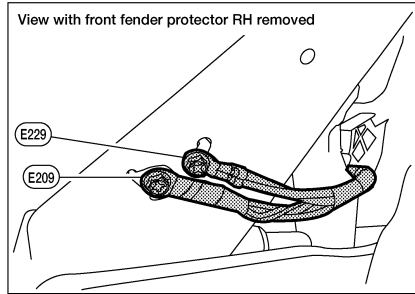
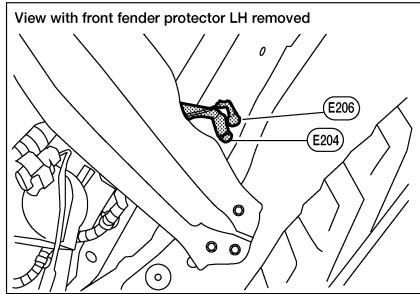
CONNECTOR NUMBER	CONNECT TO
E54	ABS actuator and electric unit (control unit) (Terminal No. 1)
E54	ABS actuator and electric unit (control unit) (Terminal No. 4)

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# GROUND

[COUPE]

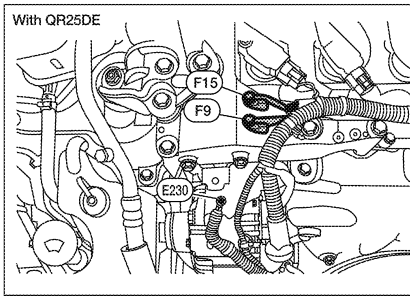
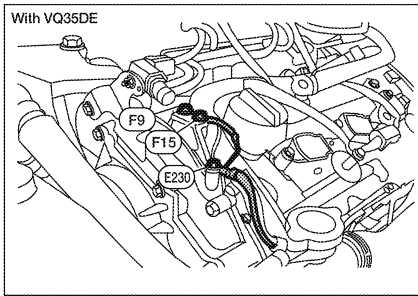
## < COMPONENT DIAGNOSIS > FRONT END MODULE HARNESS



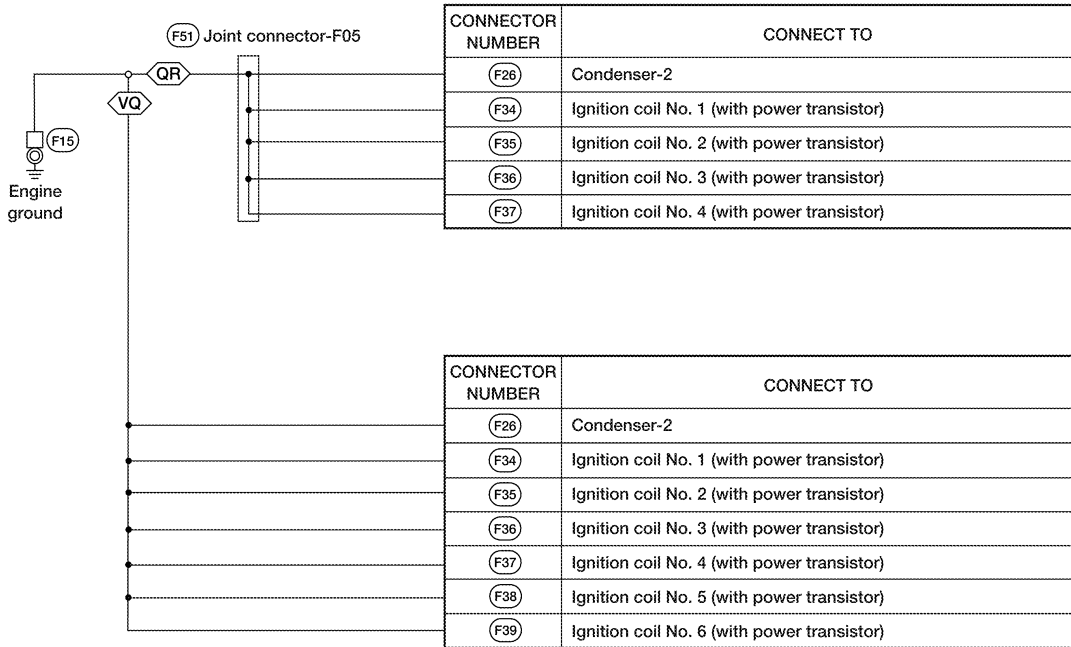
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< COMPONENT DIAGNOSIS >  
ENGINE CONTROL HARNESS



QR : With QR25DE  
VQ : With VQ35DE



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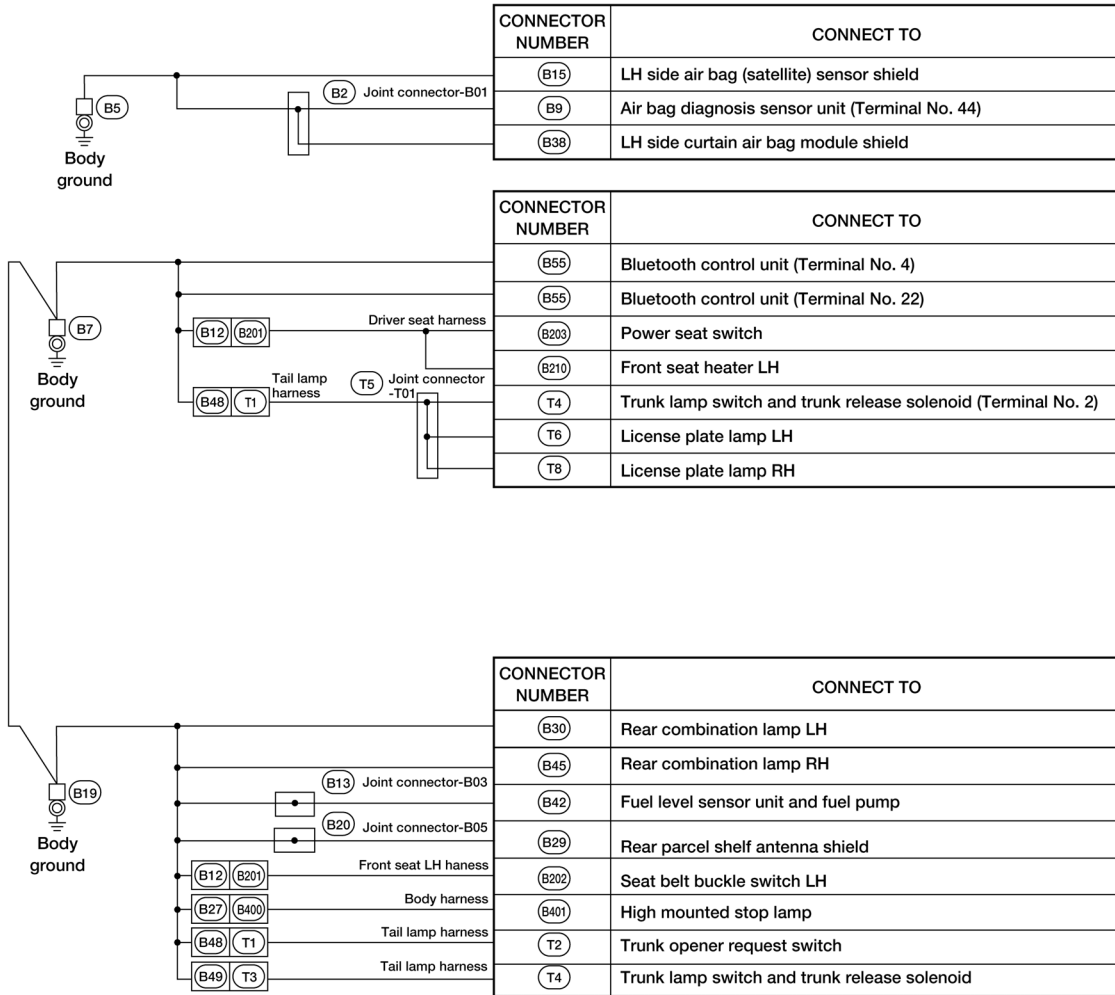
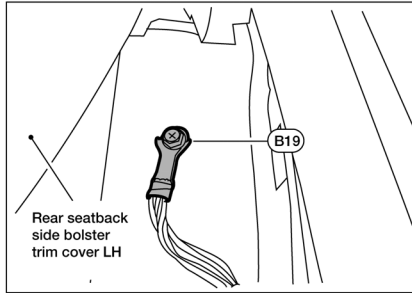
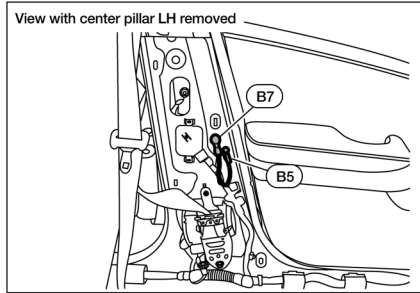


# GROUND

[COUPE]

< COMPONENT DIAGNOSIS >

## BODY HARNESS



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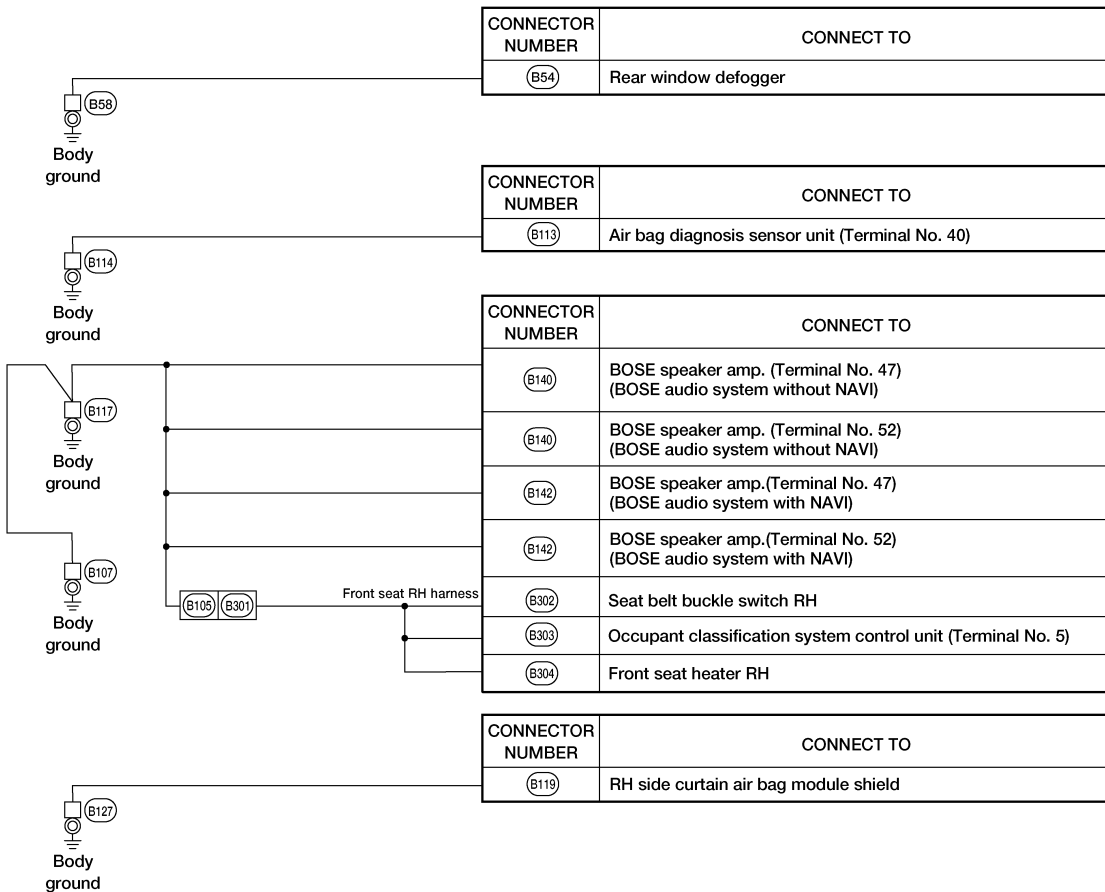
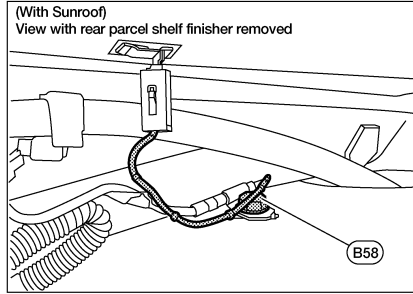
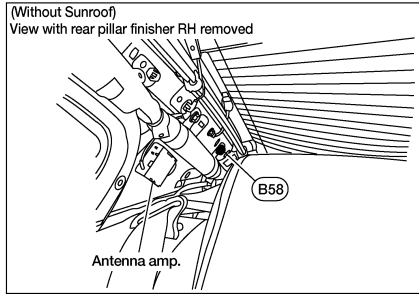
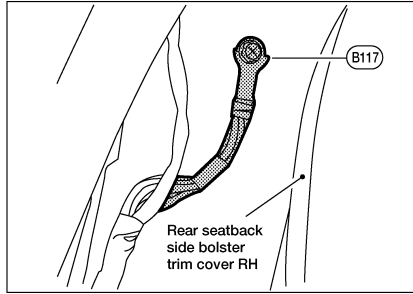
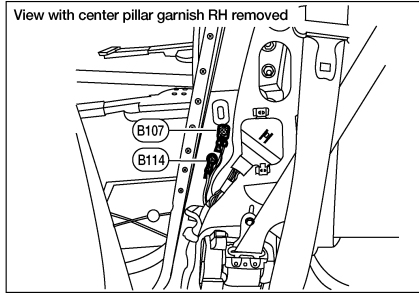
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# GROUND

[COUPE]

## < COMPONENT DIAGNOSIS >

### BODY NO. 2 HARNESS



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## HARNESS

### Harness Layout

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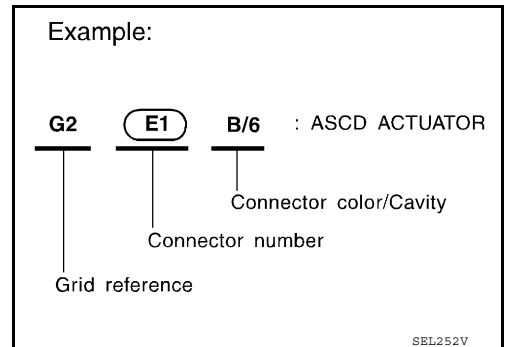
#### HOW TO READ HARNESS LAYOUT

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

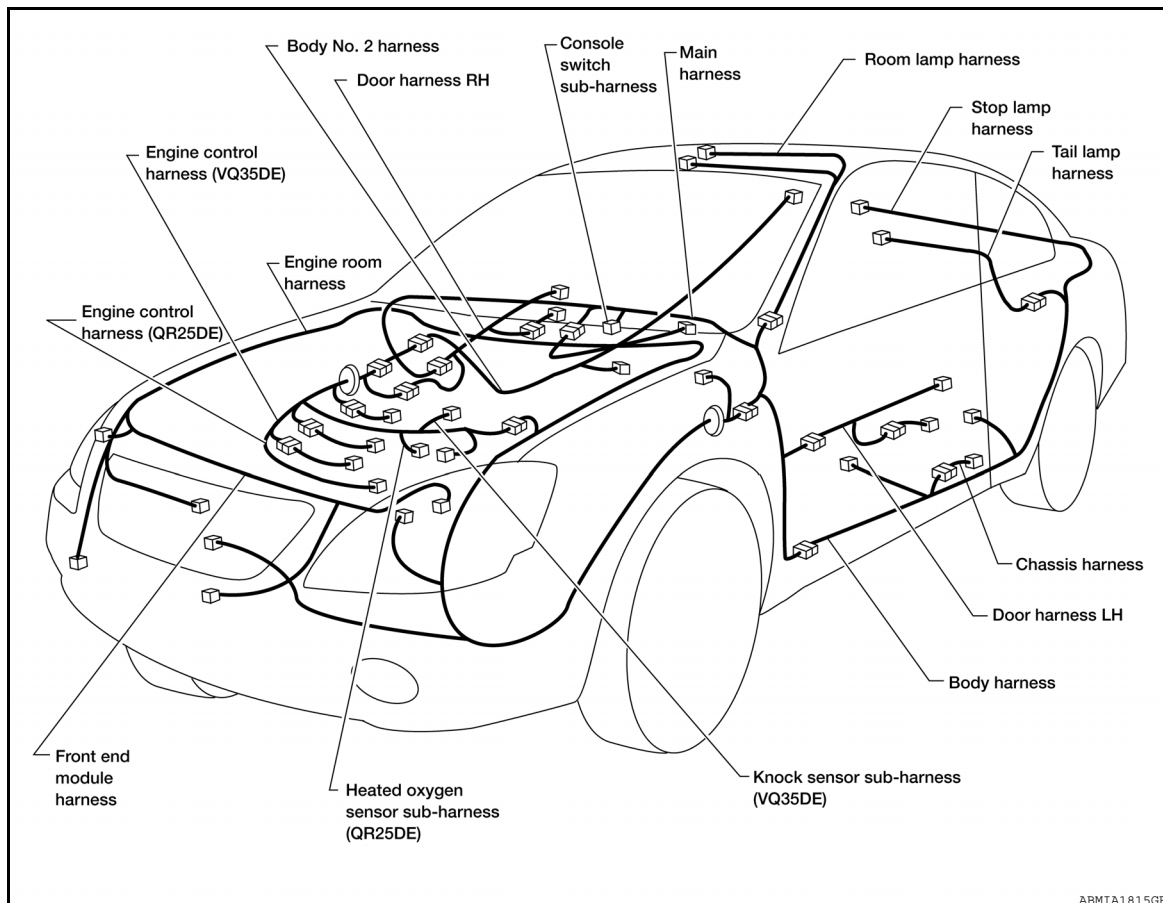
- Main Harness and Console Switch Sub-harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Front End Module Harness
- Engine Control Harness (VQ35DE) and Knock Sensor Sub-harness
- Engine Control Harness (QR25DE) and Heated Oxygen Sensor Sub-harness
- Body Harness, Tail Lamp Harness and Chassis 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



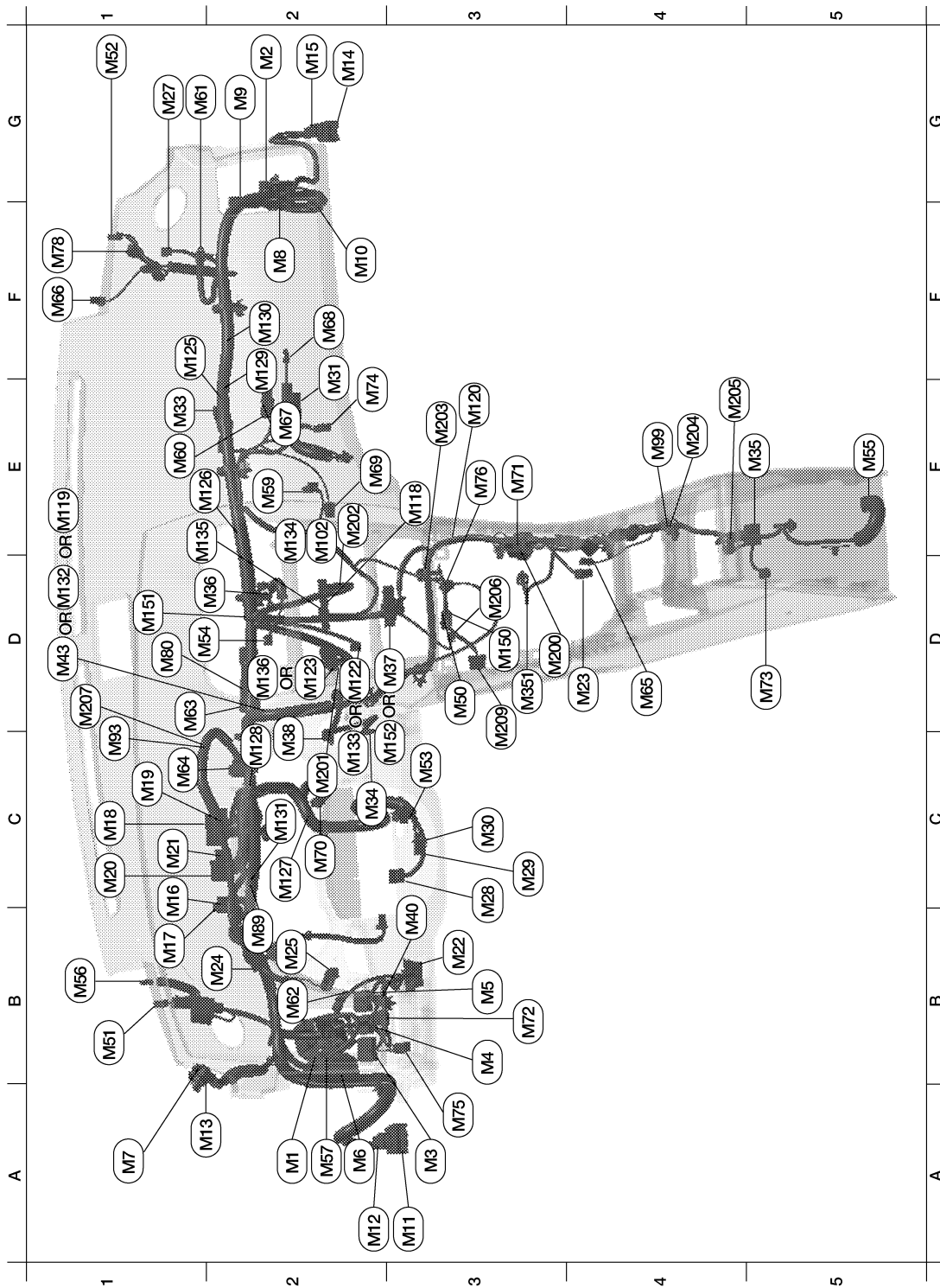
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# HARNESS

< COMPONENT DIAGNOSIS >

[COUPE]

## MAIN HARNESS



ABMIA1816GB

A2	M1	SMJ	: To E30	D1	M63	L/12	: Joint connector-M02
G2	M2	W/32	: To B101	C1	M64	GR/6	: Joint connector-M01
A3	M3	W/8	: Fuse block (J/B)	D4	M65	BR/2	: CVT shift selector
A3	M4	W/10	: Fuse block (J/B)	F1	M66	W/3	: Optical sensor

# HARNESSES

## < COMPONENT DIAGNOSIS >

[COUPE]

B3	M5	W/12	: Fuse block (J/B)	E1	M67	O/2	: Front passenger air bag module	A	
A2	M6	SMJ	: To B1	F2	M68	W/2	: Glove box lamp	B	
A1	M7	W/16	: To R1	E2	M69	W/4	: Intake sensor	C	
F2	M8	W/24	: To B102	C2	M70	W/4	: Tire pressure receiver	D	
G2	M9	BR/16	: To B103	E3	M71	W/12	: To M200	E	
F2	M10	BR/12	: To B104	B3	M72	GR/6	: VDC OFF switch	F	
A3	M11	W/16	: To D1	D5	M73	B/1	: Parking brake switch (with M/T)	G	
A2	M12	W/16	: To D2	E2	M74	W/2	: Trunk lid opener cancel switch	H	
A2	M13	W/4	: To R2	A3	M75	B/2	: Trunk lid opener switch	I	
G2	M14	W/10	: To D101	E3	M76	B/3	: Front power socket	J	
G2	M15	W/12	: To D102	F1	M78	Y/4	: Front passenger air bag module (service replacement)	K	
B1	M16	B/3	: BCM (body control module)	D1	M80	—	: Diode-3	L	
B1	M17	W/16	: BCM (body control module)	B2	M89	W/4	: To M131	M	
C1	M18	G/40	: BCM (body control module)	C1	M93	W/12	: To M207	N	
C1	M19	B/40	: BCM (body control module)	E4	M99	W/20	: To M204	O	
C1	M20	W/12	: BCM (body control module)	E2	M102	W/32	: AV control unit (BOSE audio system with NAVI)	P	
C1	M21	GR/40	: BCM (body control module)	E3	M118	W/12	: Audio unit (with base audio system)	PG	
B3	M22	W/16	: Data link connector	E1	M119	W/20	: AV control unit (BOSE audio system with NAVI)	N	
D4	M23	W/10	: CVT shift selector	E3	M120	G/4	: AV control unit (BOSE audio system with NAVI)	O	
B2	M24	W/40	: Combination meter	D2	M122	W/40	: AV control unit (BOSE audio system with NAVI)	P	
B2	M25	B/10	: Meter mode switch	D2	M123	W/28	: AV control unit (BOSE audio system with NAVI)	PG	
G1	M27	B/4	: Remote keyless entry receiver	F1	M125	W/3	: To M33	N	
C3	M28	W/16	: Combination switch	E2	M126	W/3	: Intake door motor	O	
C3	M29	Y/6	: Spiral cable	C2	M127	W/3	: Mode door motor	P	
C3	M30	GR/8	: Spiral cable	C2	M128	W/3	: Air mix door motor LH (with auto A/C)	PG	
E2	M31	W/6	: Blower motor	E2	M129	W/3	: Air mix door motor RH (with auto A/C)	N	
E1	M33	W/3	: To M125	F2	M130	W/3	: Air mix door motor (with manual A/C)	O	
C2	M34	W/2	: In-vehicle sensor	C2	M131	W/4	: To M89	P	
E5	M35	Y/28	: Air bag diagnosis sensor unit	D1	M132	W/20	: AV control unit (with BOSE audio system without NAVI)	PG	
D2	M36	W/3	: Front passenger air bag off indicator	D2	M133	W/32	: Audio unit (BOSE audio system without NAVI)	N	
D3	M37	W/40	: Front air control (without Auto A/C)	E2	M134	W/12	: Audio unit (BOSE audio system without NAVI)	O	
C2	M38	BR/8	: Push-button ignition switch	E2	M135	W/12	: Audio unit (BOSE audio system without NAVI)	P	
B3	M40	W/12	: Key slot	E2	M136	G/4	: Audio unit (BOSE audio system without NAVI)	PG	
D1	M43	W/20	: Audio unit (with base audio system)	D3	M150	W/2	: To M50	N	
D3	M49	GR/2	: Instrument panel antenna	D1	M151	BR/2	: Center speaker	O	
D3	M50	W/2	: To M150	D3	M152	W/40	: Front air control (with Auto A/C)	P	
B1	M51	BR/2	: Front tweeter LH	Console switch sub-harness					
G1	M52	BR/2	: Front tweeter RH	D3	M200	W/12	: To M71	PG	

# HARNESS

## < COMPONENT DIAGNOSIS >

[COUPE]

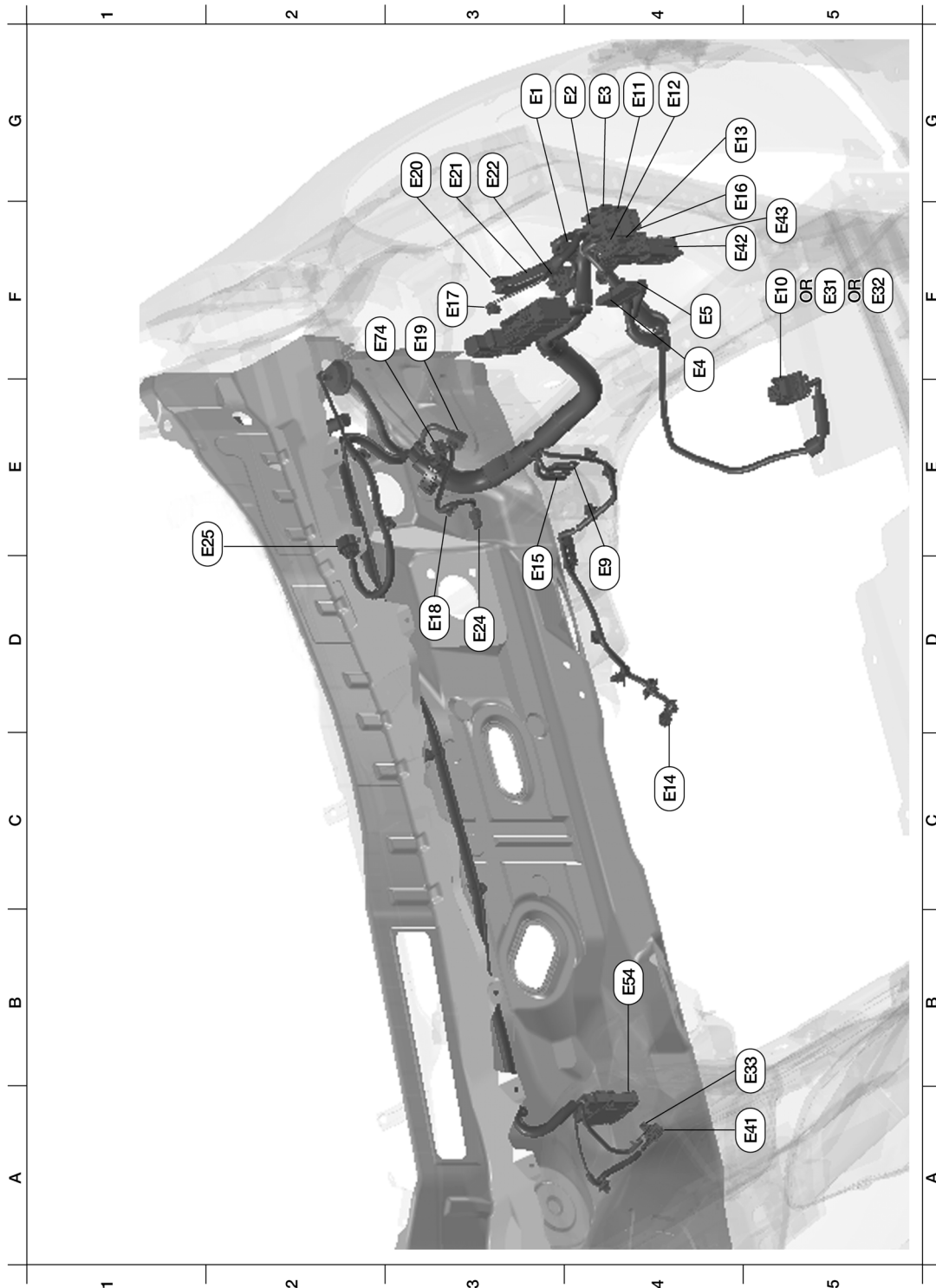
C3	M53	W/8	: Steering angle sensor	C2	M201	W/6	: Front heated seat switch LH
D2	M54	W/4	: Hazard switch	E2	M202	BR/6	: Front heated seat switch RH
E5	M55	B/4	: Yaw rate/side/decel G sensor	E3	M203	GR/2	: Front console antenna
B1	M56	B/2	: Sunload sensor	E4	M204	GR/6	: To M99
A2	M57	—	: Body ground	E3	M205	G/4	: USB interface
E2	M59	W/12	: Power steering control unit	D3	M206	W/8	: Aux jack
E1	M60	Y/2	: Front passenger air bag module	D1	M207	W/2	: To M93
G1	M61	—	: Body ground	D3	M209	B/3	: Front console power socket
B2	M62	W/2	: Tire pressure warning check connector				

# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

## ENGINE ROOM HARNESS



ABMIA1817GB

G4	E1	W/6	: Joint connector-E01	F3	E19	GR/2	: Front wheel sensor LH
G4	E2	W/8	: To E202	G3	E20	W/6	: Joint connector-E02
G4	E3	W/16	: To F1	G3	E21	W/4	: Joint connector-E03
F4	E4	BR/2	: Fusible link box (battery)	G3	E22	W/4	: Joint connector-E04
F4	E5	GR/2	: Fusible link box (battery)	D3	E24	GR/2	: Brake fluid level switch

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## < COMPONENT DIAGNOSIS >

[COUPE]

D4	E9	—	: Body ground	E2	E25	GR/5	: Front wiper motor
F5	E10	B/32	: ECM (QR25DE except for California)	F5	E31	B/32	: ECM (QR25DE for California)
G4	E11	W/10	: To F2	F5	E32	B/32	: ECM (with VQ35DE)
G4	E12	W/6	: To E203	B5	E33	—	: Body ground
G5	E13	B/3	: To E205	A5	E41	GR/2	: Front wheel sensor RH
C4	E14	B/2	: Power steering solenoid valve	F5	E42	BR/6	: Cooling fan relay-2
D4	E15	—	: Body ground	G5	E43	BR/6	: Cooling fan relay-3
G5	E16	B/2	: IPDM E/R (intelligent power distribution module engine room)	B4	E54	B/26	: ABS actuator and electric unit (control unit)
F3	E17	W/8	: IPDM E/R (intelligent power distribution module engine room)	F2	E74	BR/3	: Intelligent key warning buzzer
C3	E18	W/36	: IPDM E/R (intelligent power distribution module engine room)				

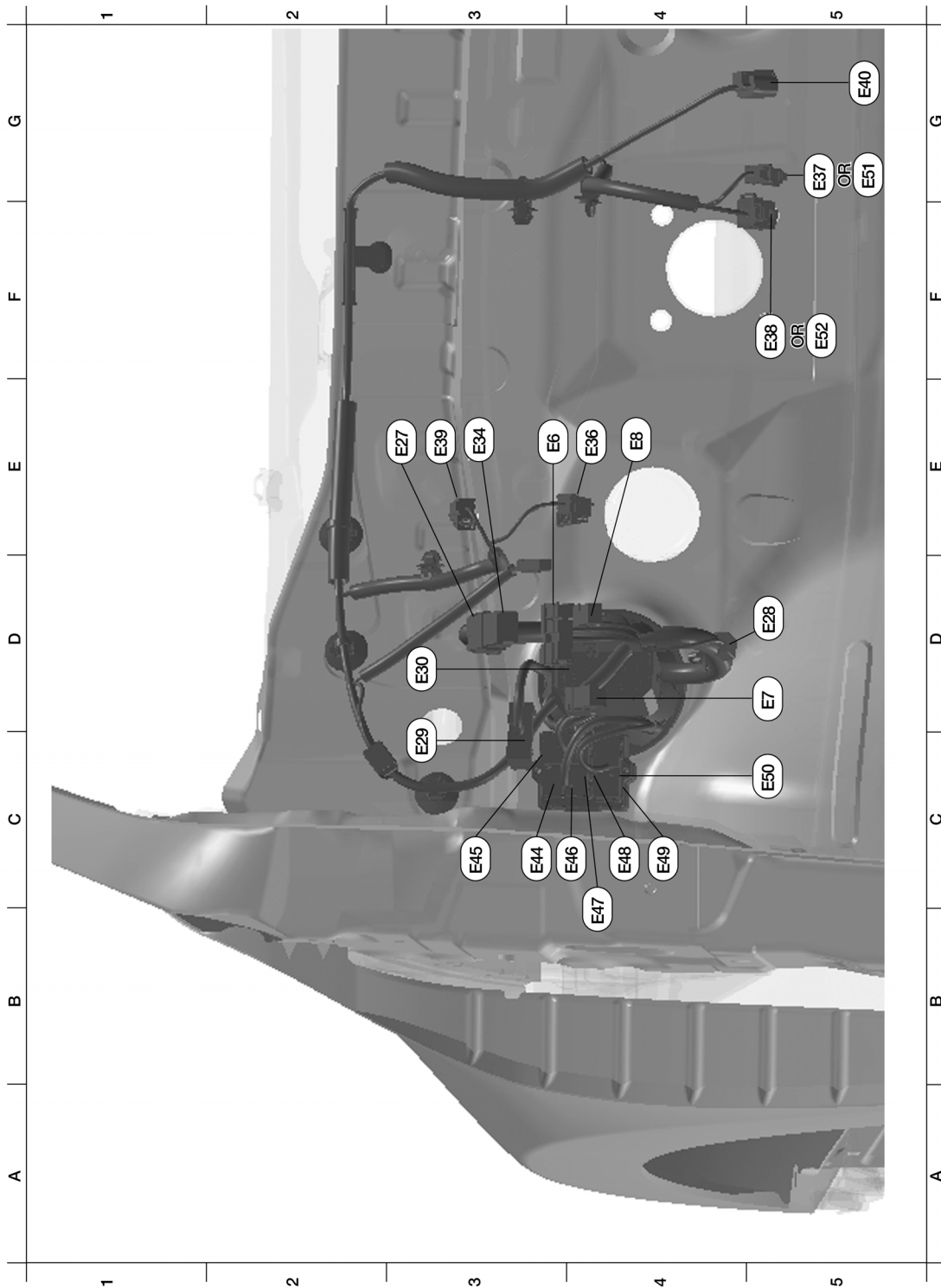


# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

## ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



ABMIA1818GB

E3	E6	W/16	: Fuse block (J/B)	E3	E39	BR/2	: ASCD clutch switch
D5	E7	W/1	: Fuse block (J/B)	G5	E40	B/6	: Accelerator pedal position (APP) sensor
E4	E8	B/2	: Fuse block (J/B)	C3	E44	BR/12	: Junction block
E3	E27	W/4	: Joint connector-E06	C3	E45	W/12	: Junction block
D5	E28	W/4	: Joint connector-E05	C4	E46	W/16	: Junction block

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## < COMPONENT DIAGNOSIS >

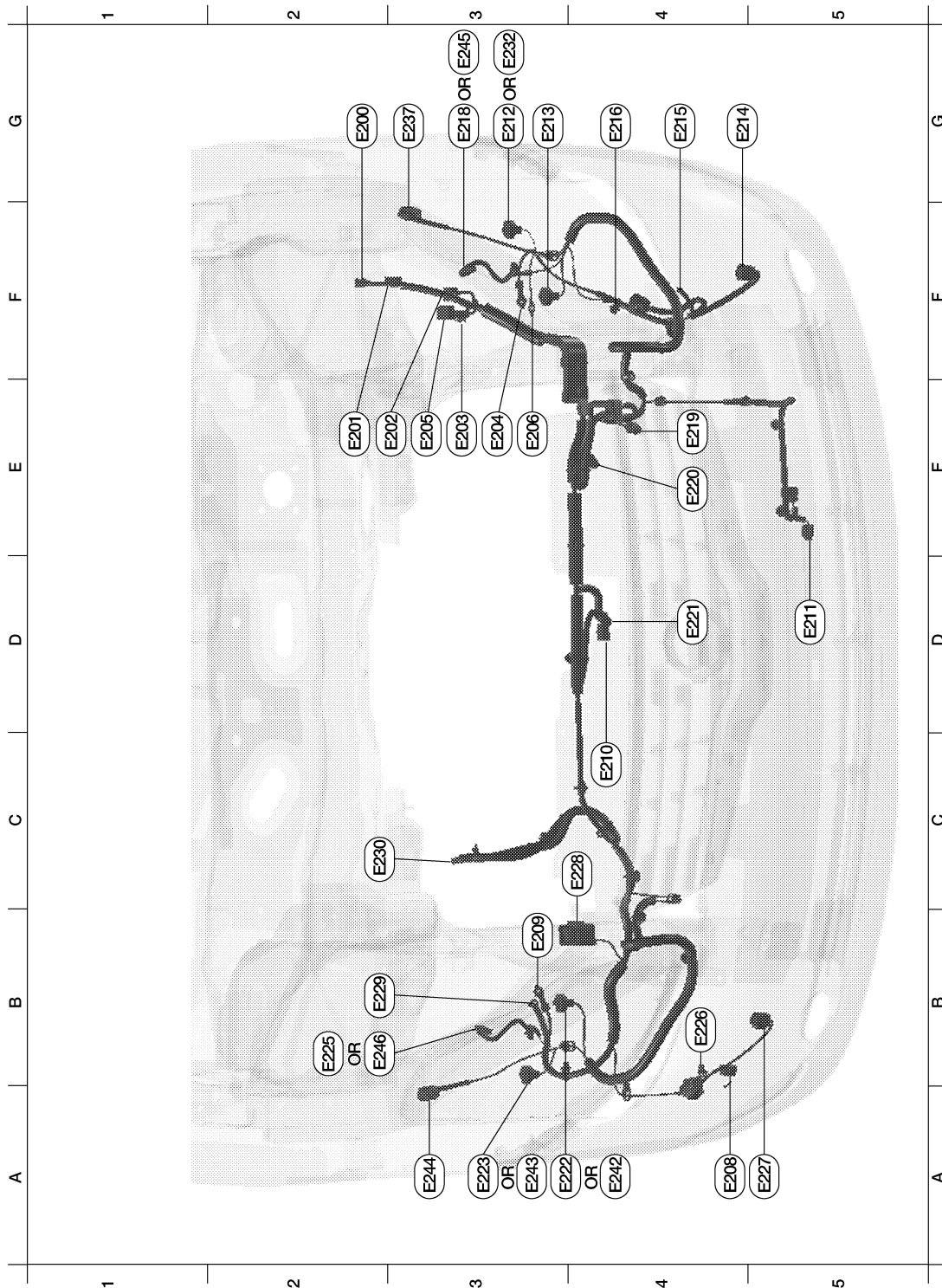
[COUPE]

C3	E29	W/16	: To B10	B4	E47	W/6	: Junction block
D3	E30	SMJ	: To M1	C4	E48	W/4	: Junction block
E3	E34	L/4	: Back-up lamp relay	C4	E49	BR/4	: Junction block
E4	E36	BR/2	: Clutch interlock switch	C5	E50	W/2	: Junction block
G5	E37	BR/2	: ASCD brake switch (with CVT)	F5	E51	BR/2	: ASCD brake switch (with M/T)
F5	E38	W/4	: Stop lamp switch (with CVT)	E5	E52	B/2	: Stop lamp switch (with M/T)

# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >  
FRONT END MODULE HARNESS



ABMIA1819GB

G3	E200	W/8	: IPDM E/R (intelligent power distribution module engine room)	E4	E220	GR/4	: Cooling fan motor-1
E2	E201	W/16	: IPDM E/R (intelligent power distribution module engine room)	D4	E221	GR/4	: Cooling fan motor-2
E3	E202	W/8	: To E2	A4	E222	B/2	: Front combination lamp RH (without daytime light system))

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# HARNESSES

## < COMPONENT DIAGNOSIS >

**[COUPE]**

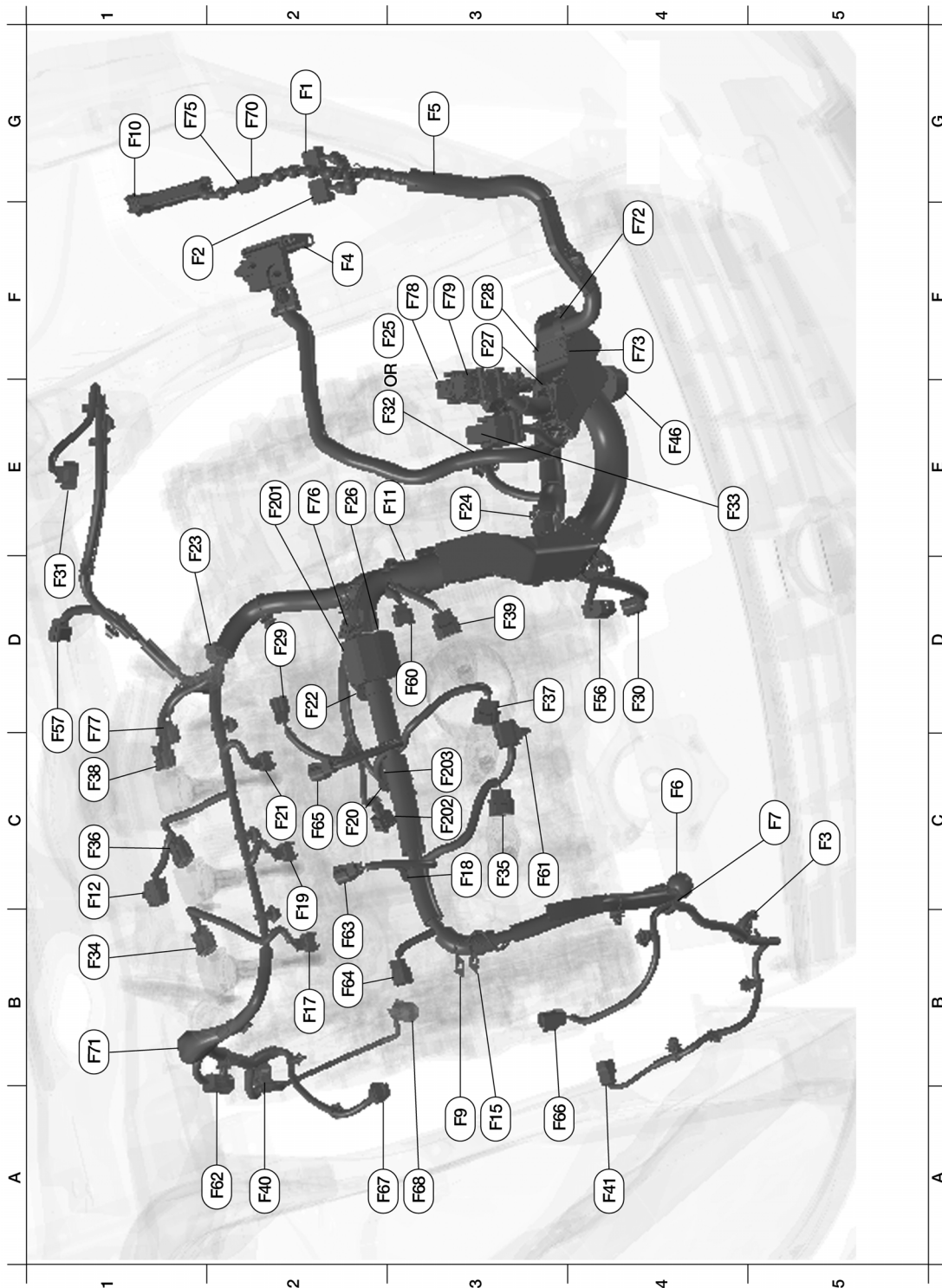
E3	E203	W/6	: To E12	A3	E223	B/2	: Front combination lamp RH (without xenon headlamp system)
E3	E204	—	: Body ground	B3	E225	B/2	: Front combination lamp RH
E3	E205	B/3	: To E13	B4	E226	B/2	: Front washer motor
E3	E206	—	: Body ground	A5	E227	B/2	: Front fog lamp RH
A4	E208	W/2	: Washer level switch	C4	E228	B/5	: Daytime light relay
B3	E209	—	: Body ground	B3	E229	—	: Body ground
D4	E210	Y/2	: Crash zone sensor	C3	E230	—	: Generator
D5	E211	B/2	: Ambient sensor	G3	E232	GR/2	: Front combination lamp LH (with xenon headlamp system)
G3	E212	B/2	: Front combination lamp LH (without xenon headlamp system)	G3	E237	GR/3	: Front combination lamp LH
G4	E213	B/2	: Front combination lamp LH	A4	E242	B/2	: Front combination lamp RH (with daytime light system))
G5	E214	B/2	: Front fog lamp LH	A3	E243	GR/2	: Front combination lamp RH (with xenon headlamp system)
G4	E215	B/1	: Horn (low)	A3	E244	GR/3	: Front combination lamp RH
G4	E216	B/1	: Horn (high)	G3	E245	GR/2	: Front combination lamp LH
G3	E218	B/2	: Front combination lamp LH	B2	E246	GR/2	: Front combination lamp RH
E4	E219	B/3	: Refrigerant pressure sensor				

# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

## ENGINE CONTROL HARNESS (VQ35DE)



ABMIA1820GB

G2	F1	W/16	: To E3	C1	F36	GR/3	: Ignition coil No. 3 (with power transistor)
F2	F2	W/10	: To E11	D4	F37	GR/3	: Ignition coil No. 4 (with power transistor)
C5	F3	B/2	: A/C Compressor	C1	F38	GR/3	: Ignition coil No. 5 (with power transistor)
F2	F4	—	: Fusible link box (battery)	D3	F39	GR/3	: Ignition coil No. 6 (with power transistor)
G3	F5	B/3	: Battery current sensor	A2	F40	B/3	: Power steering pressure sensor

# HARNESSES

## < COMPONENT DIAGNOSIS >

**[COUPE]**

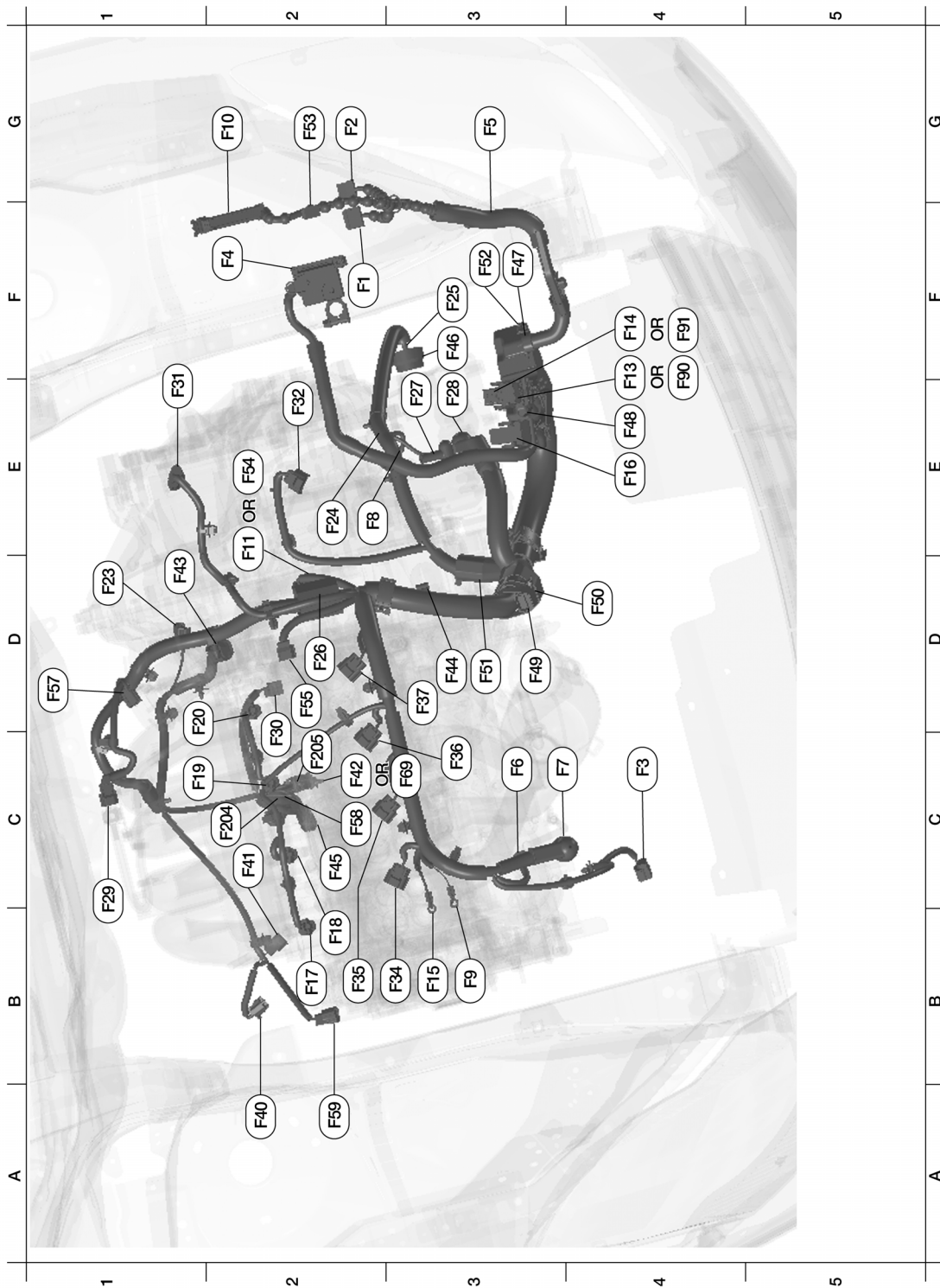
C4	F6	—	: Generator	A4	F41	GR/1	: Oil pressure switch
C5	F7	B/3	: Generator	E4	F46	B/22	: CVT unit
A3	F9	—	: Engine ground	D1	F55	B/3	: Camshaft position sensor (PHASE)(bank 1)
G1	F10	W/36	: IPDM E/R (intelligent power distribution module engine room)	D4	F56	B/4	: Heated oxygen sensor 2 (bank 2)
E3	F11	GR/2	: Engine coolant temperature sensor	D1	F57	B/6	: Electric throttle control actuator
C1	F12	GR/4	: Air fuel ratio (A/F) sensor 1 (bank 1)	C3	F61	GR/4	: Air fuel ratio (A/F) sensor 1 (bank 2)
G1	F10	W/36	: IPDM E/R (intelligent power distribution module engine room)	A2	F62	B/4	: Heated oxygen sensor 2 (bank 1)
A3	F15	—	: Engine ground	B2	F63	B/2	: VIAS control solenoid valve 1
B2	F17	GR/2	: Fuel injector No. 1	B3	F64	BR/2	: Electric controlled engine mount control solenoid valve
C3	F18	GR/2	: Fuel injector No. 2	C2	F65	B/2	: VIAS control solenoid valve 2
C2	F19	GR/2	: Fuel injector No. 3	A3	F66	G/2	: Intake valve timing control solenoid valve (bank 2)
C2	F20	GR/2	: Fuel injector No. 4	A2	F67	G/2	: Intake valve timing control solenoid valve (bank 1)
C2	F21	GR/2	: Fuel injector No. 5	A3	F68	GR/2	: Engine oil temperature sensor
D2	F22	GR/2	: Fuel injector No. 6	G2	F70	B/10	: Joint connector-F01
E2	F23	B/3	: Secondary speed sensor	B1	F71	GR/6	: Joint connector-F03
E3	F24	B/2	: Back-up lamp switch	F4	F72	B/10	: Joint connector-F04
F2	F25	B/10	: Transmission range switch	F4	F73	B/10	: Joint connector-F05
E2	F26	W/2	: Condenser-2	D3	F74	W/4	: Joint connector-F08
F3	F27	—	: Starter motor	G2	F75	W/4	: Joint connector-F07
F3	F28	—	: Starter motor	E2	F76	L/4	: To F201
D2	F29	L/2	: EVAP canister purge volume control solenoid valve	D1	F77	B/3	: Camshaft position sensor (PHASE)(bank 2)
D4	F30	B/3	: Crankshaft position sensor (POS)	F3	F78	BR/48	: ECM
D1	F31	B/6	: Mass air flow sensor	F3	F79	GR/32	: ECM
E3	F32	B/2	: Park/neutral position (PNP) switch	Knock sensor sub-harness			
E5	F33	B/48	: TCM (transmission control module)	E2	F201	L/4	: To F76
B1	F34	GR/3	: Ignition coil No. 1 (with power transistor)	C3	F202	GR/2	: Knock sensor (bank 1)
C3	F35	GR/3	: Ignition coil No. 2 (with power transistor)	C3	F203	GR2	: Knock sensor (bank 2)

# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

## ENGINE CONTROL HARNESS (QR25DE)



ABMIA1821GB

F2	F1	W/16	: To E3	B3	F34	GR/3	: Ignition coil No. 1 (with power transistor)
G2	F2	W/10	: To E11	B2	F35	GR/3	: Ignition coil No. 2 (with power transistor)
C4	F3	B/12	: A/C Compressor	C3	F36	GR/3	: Ignition coil No. 3 (with power transistor)
F2	F4	—	: Fusible link box (battery)	D3	F37	GR/3	: Ignition coil No. 4 (with power transistor)
G3	F5	B/3	: Battery current sensor	A2	F40	B/3	: Power steering pressure sensor

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# HARNESSES

## < COMPONENT DIAGNOSIS >

**[COUPE]**

C3	F6	—	: Generator	C2	F41	GR/1	: Oil pressure switch
C3	F7	B/3	: Generator	C2	F42	B/4	: Heated oxygen sensor 2 (except for California)
E2	F8	B/3	: Primary speed sensor	D1	F43	GR/5	: Tumble control valve actuator
B3	F9	—	: Engine ground	D3	F44	GR/4	: Air fuel ratio (A/F) sensor 1
G2	F10	W/36	: IPDM E/R (intelligent power distribution module engine room)	C2	F45	GR/2	: Knock sensor
E2	F11	GR/2	: Engine coolant temperature sensor (for California)	F3	F46	B/22	: CVT unit
E4	F13	BR/48	: ECM (except for California)	F3	F47	B/6	: Joint connector-F01
F4	F14	GR/32	: ECM (except for California)	E4	F48	B/6	: Joint connector-F02
B3	F15	—	: Engine ground	D3	F49	B/10	: Joint connector-F03
E4	F16	B/48	: TCM (transmission control module)	D4	F50	B/10	: Joint connector-F04
B2	F17	GR/2	: Fuel injector No. 1	D3	F51	B/6	: Joint connector-F05
B2	F18	GR/2	: Fuel injector No. 2	F3	F52	B/10	: Joint connector-F06
C1	F19	GR/2	: Fuel injector No. 3	G2	F53	W/4	: Joint connector-F07
D1	F20	GR/2	: Fuel injector No. 4	E2	F54	GR/2	: Engine coolant temperature sensor (except for California)
D1	F23	B/3	: Secondary speed sensor	D2	F55	B/3	: Camshaft position sensor (PHASE)
E3	F24	B/2	: Back-up lamp switch	D1	F57	B/6	: Electric throttle control actuator
F3	F25	B/10	: Transmission range switch	C2	F58	B/4	: To F204
D2	F26	W/2	: Condenser-2	A2	F59	G/2	: Intake valve timing control solenoid valve
E3	F27	—	: Starter motor	C2	F69	B/4	: Heated oxygen sensor 2 (for California)
E3	F28	—	: Starter motor	E4	F90	BR/48	: ECM (for California)
C1	F29	L/2	: EVAP canister purge volume control solenoid valve	F4	F91	GR/32	: ECM (for California)
C2	F30	B/3	: Crankshaft position sensor (POS)	Heated oxygen sensor sub-harness			
E1	F31	B/6	: Mass air flow sensor	C2	F204	B/4	: To F58
E2	F32	B/2	: Park/neutral position (PNP) switch	C2	F205	GR/4	: Heated oxygen sensor 3

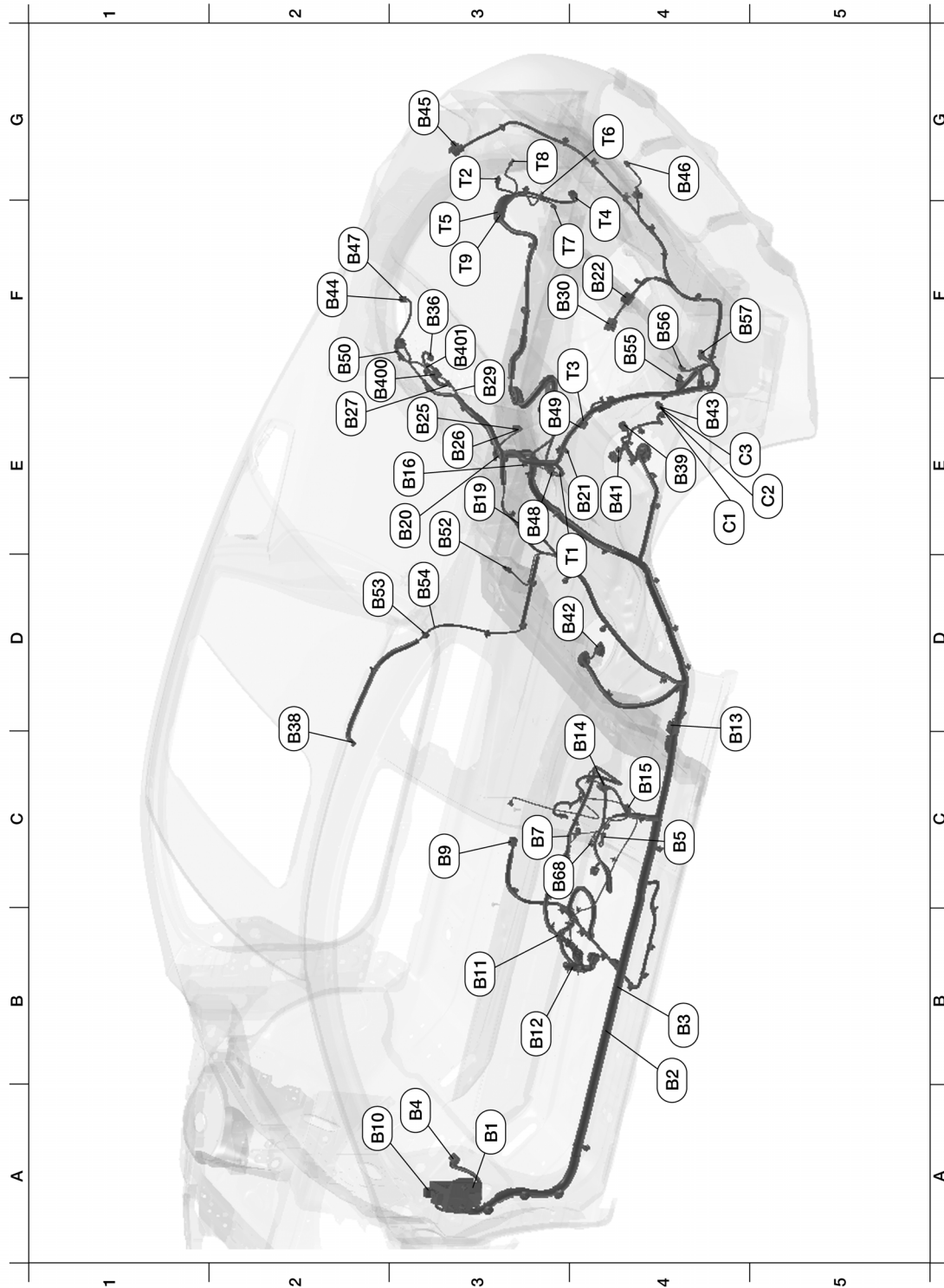


# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

## BODY HARNESS



ABMIA1922GB

A3	B1	SMJ	: To M6	G3	B45	W/6	: Rear combination lamp RH
B4	B2	W/4	: Joint connector-B01	G4	B46	GR/2	: Rear bumper antenna
B4	B3	W/4	: Joint connector-B02	F2	B47	W/2	: Rear subwoofer RH
A3	B4	BR/12	: Fuse block (J/B)	E4	B48	W/16	: To T1
C4	B5	—	: Body ground	E3	B49	W/2	: To T3

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# HARNESSES

## < COMPONENT DIAGNOSIS >

[COUPE]

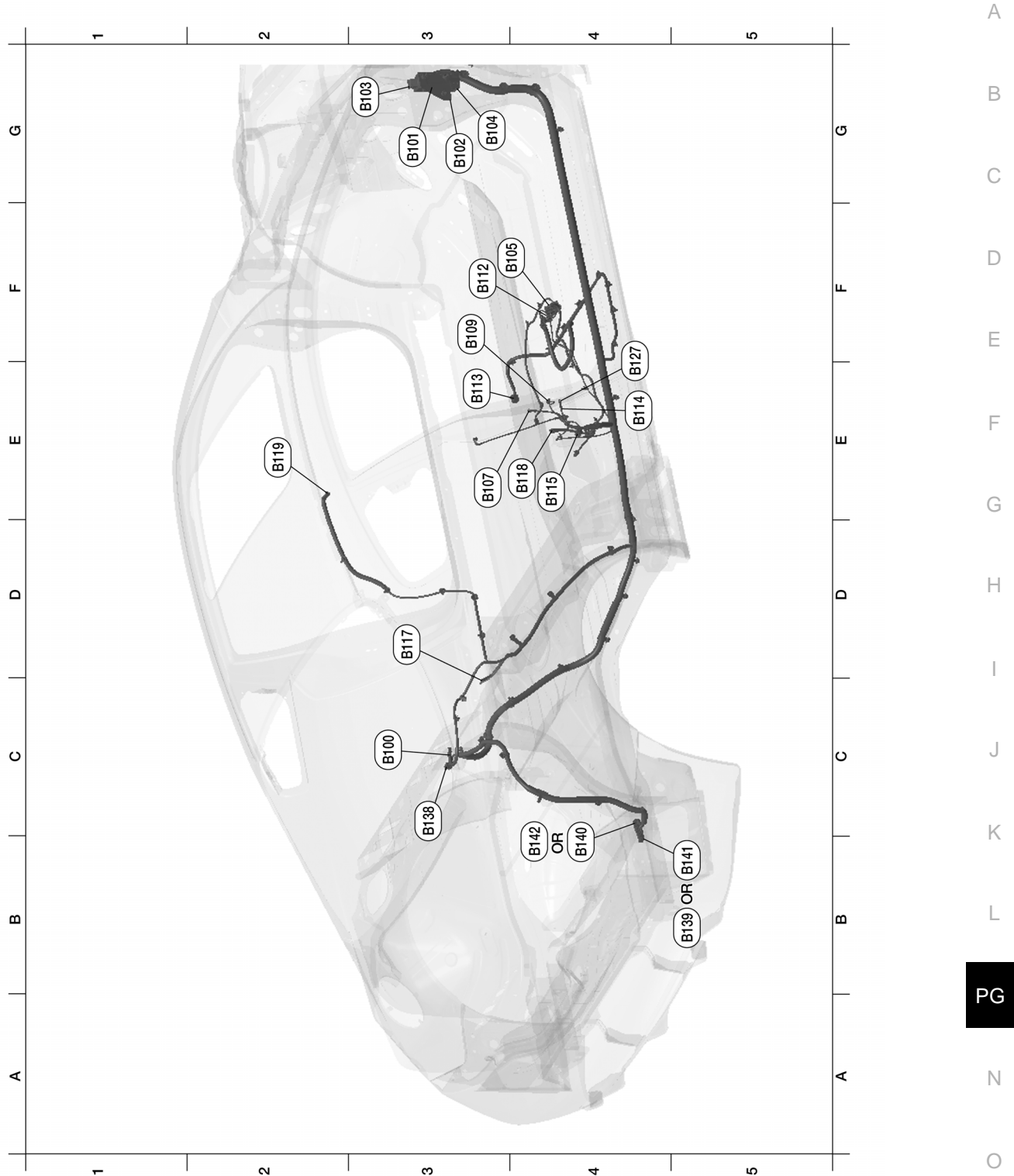
C3	B7	—	: Body ground	F2	B50	W/6	: To B138
C3	B9	Y/12	: Air bag diagnosis sensor unit	E3	B52	W/1	: Condenser
A2	B10	W/16	: To E29	D3	B53	B/1	: Rear window defogger
B3	B11	Y/2	: Front LH side air bag module	D3	B54	B/1	: Rear window defogger
B3	B12	W/8	: To B201	F4	B55	W/32	: Bluetooth control unit
C4	B13	W/6	: Joint connector-B03	F4	B56	W/8	: Bluetooth control unit
D4	B14	Y/2	: Front LH seat belt pre-tensioner	F5	B57	W/16	: Satellite radio tuner or pre-wiring for satellite radio tuner
C4	B15	Y/2	: LH side air bag (satellite) sensor	C3	B68	W/3	: Door switch LH
E3	B16	BR/2	: Rear tweeter LH	F3	B400	W/2	: To B27
E3	B19	—	: Body ground	F3	B401	W/2	: High mounted stop lamp (without rear spoiler)
E3	B20	G/4	: Joint connector-B05	Tail lamp sub-harness			
E3	B21	L/12	: Joint connector-B06	E4	T1	W/16	: To B48
F4	B22	GR/6	: Joint connector-B07	G3	T2	BR/2	: Trunk opener request switch
E3	B25	W/2	: Rear subwoofer LH	E3	T3	W/2	: To B49
E3	B26	W/2	: Rear speaker LH	F4	T4	W/4	: Trunk lamp switch and trunk release solenoid
E2	B27	W/2	: To B400	F3	T5	W/4	: Joint connector-T01
F3	B29	GR/2	: Rear parcel shelf antenna	F4	T6	BR/2	: License plate lamp LH
F4	B30	W/6	: Rear combination lamp LH	F4	T7	W/4	: Rear view camera
F3	B36	W/2	: Trunk room lamp	G4	T8	BR/2	: License plate lamp RH
D2	B38	Y/2	: LH side front curtain air bag module	F4	T9	W/4	: Joint connector-T02
E4	B39	B/2	: EVAP canister vent control valve	Chassis harness			
E4	B41	GR/3	: EVAP control system pressure sensor	E4	C1	GR/4	: To B43
D3	B42	GR/5	: Fuel level sensor unit and fuel pump	E4	C2	B/2	: Rear wheel sensor LH
E4	B43	GR/4	: To C1	E4	C3	GR/2	: Rear wheel sensor RH
F2	B44	W/2	: Rear speaker RH				

# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

BODY NO. 2 HARNESS



ABMIA1823GB

C3	B100	BR/2	: Rear tweeter RH	E4	B115	Y/2	: Front RH seat belt pre-tensioner
G3	B101	W/32	: To M2	D3	B117	—	: Body ground
G3	B102	W/24	: To M8	E4	B118	Y/2	: RH side air bag (satellite) sensor
G3	B103	BR/16	: To M9	E2	B119	Y/2	: RH side curtain air bag module
G3	B104	BR/12	: To M10	E4	B127	—	: Body ground

# HARNESS

## < COMPONENT DIAGNOSIS >

[COUPE]

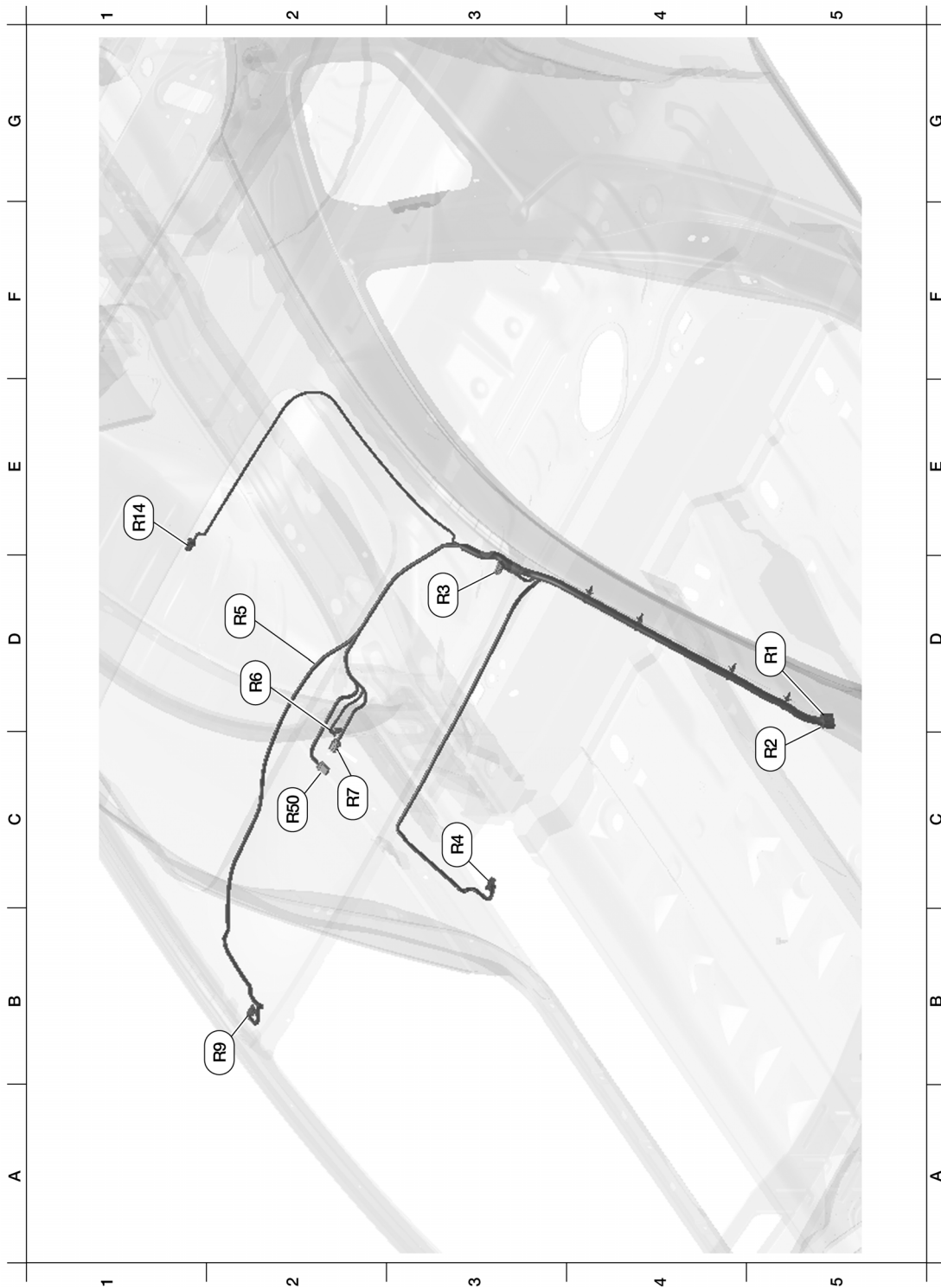
F4	B105	W/8	: To B301	C3	B138	W/6	: To B50
E3	B107	—	: Body ground	B5	B139	BR/23	: BOSE speaker amp. (BOSE audio system without NAVI)
F3	B109	W/3	: Door switch RH	B4	B140	BR/14	: BOSE speaker amp. (BOSE audio system without NAVI)
F3	B112	Y/2	: Front RH side air bag module	B5	B141	BR/23	: BOSE speaker amp. (BOSE audio system with NAVI)
E3	B113	Y/12	: Air bag diagnosis sensor unit	C4	B142	BR/14	: BOSE speaker amp. (BOSE audio system with NAVI)
E4	B114	—	: Body ground				

# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

## ROOM LAMP HARNESS



ABMIA1824GB

D5	R1	W/16	: To M7	C2	R6	W/3	: Sunroof switch
D5	R2	W/4	: To M13	C2	R7	W/4	: Microphone
D3	R3	W/2	: Vanity mirror lamp LH	B2	R9	W/2	: Vanity mirror lamp RH
C3	R4	B/10	: Auto anti-dazzling inside mirror	D1	R14	W/3	: Interior room lamp
D2	R5	W/10	: Sunroof motor assembly	C2	R50	GR/6	: Front room/map lamp assembly

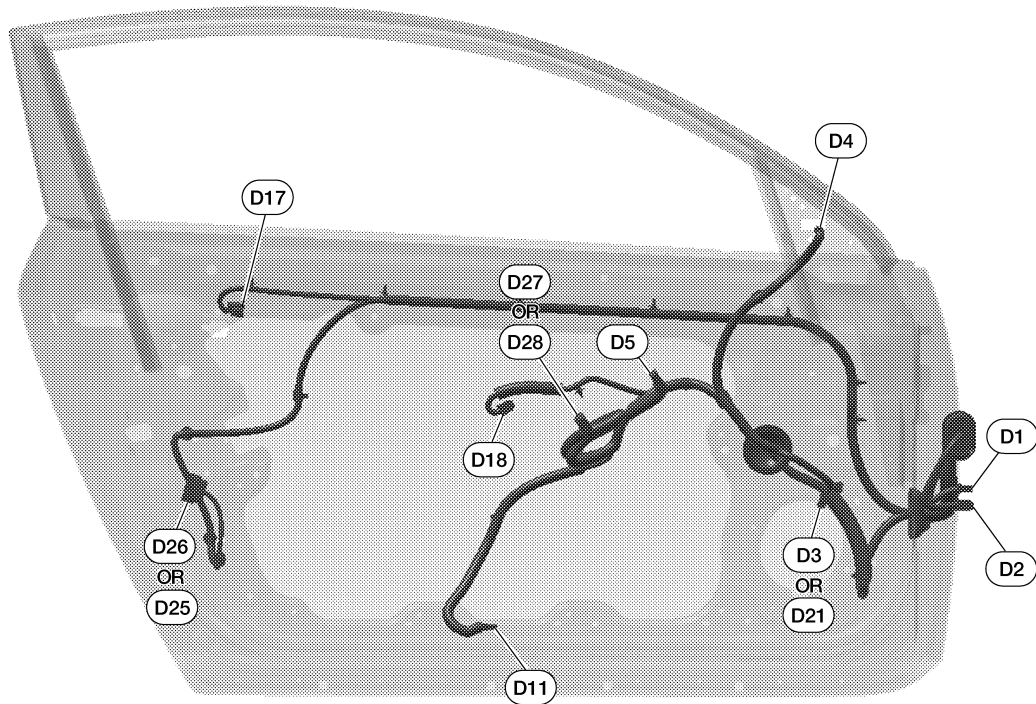
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# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

## DOOR LH HARNESS



ABMIA1825GB

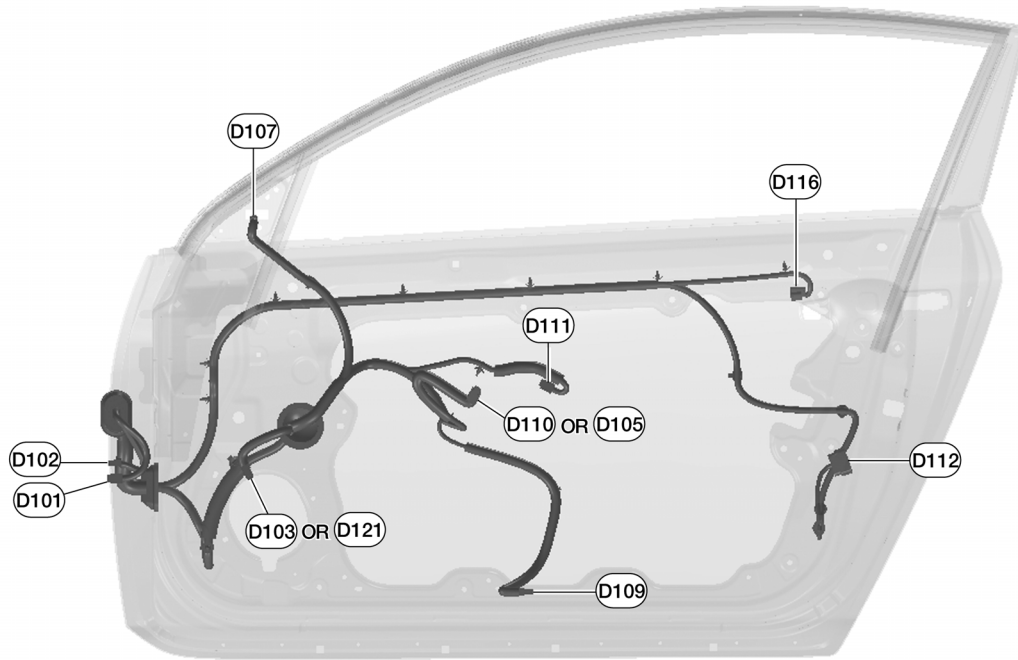
D1	W/16	: To M11	D11	W/2	: Step lamp LH
D2	W/16	: To M12	D18	W/6	: Power window motor LH
D3	W/2	: Door speaker LH (with base audio system)	D21	BR/2	: Door speaker LH (with BOSE audio system)
D4	W/8	: Door mirror LH	D26	GR/6	: Door lock assembly LH (with left and right power window anti-pinch system)
D5	W/16	: Door mirror remote control switch	D27	W/16	: Main power window and door lock/unlock switch (with left power window anti-pinch system)
D17	B/4	: Outside handle LH	D28	W/16	: Main power window and door lock/unlock switch (with left and right power window anti-pinch system)

# HARNESS

[COUPE]

< COMPONENT DIAGNOSIS >

## DOOR RH HARNESS



ABMIA1826GB

D101	W/10	: To M14	D110	W/12	: Power window and door lock/unlock switch RH (with left front only power window anti-pinch system)
D102	W/12	: To M15	D111	W/6	: Front power window motor RH
D103	W/2	: Door speaker RH (with BOSE audio system)	D112	GR/6	: Door lock actuator RH
D105	W/16	: Power window and door lock/unlock switch RH (with left and right front power window anti-pinch system)	D116	B/4	: Outside handle RH
D107	W/8	: Door mirror RH	D121	BR/2	: Door speaker RH (with base audio system)
D109	W/2	: Step lamp RH			

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# ELECTRICAL UNITS LOCATION

[COUPE]

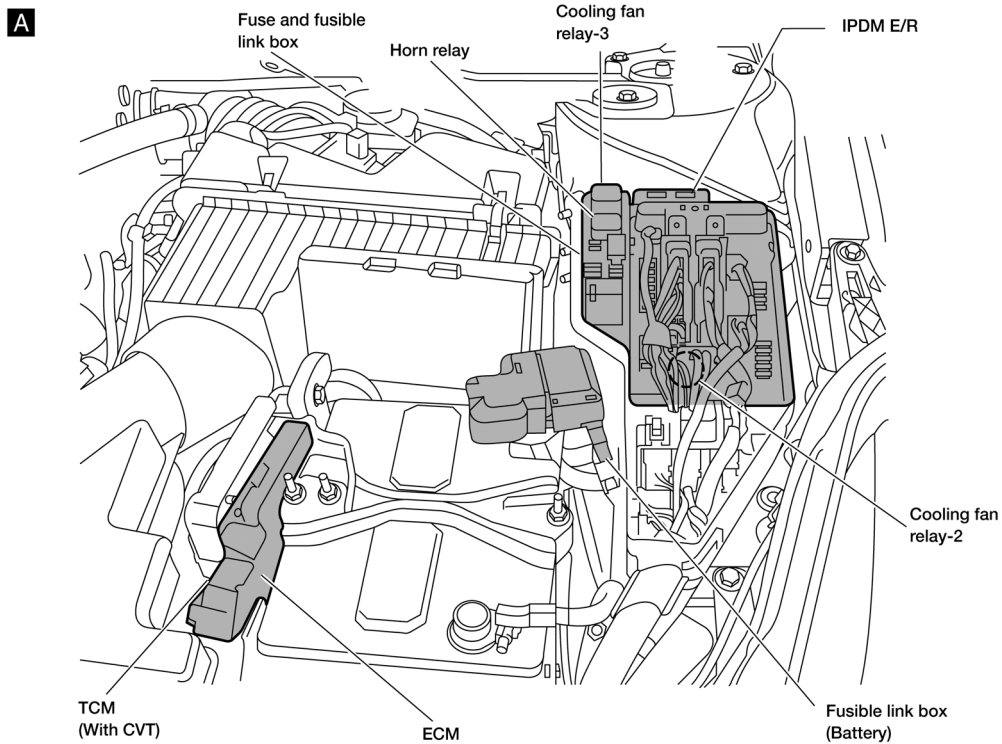
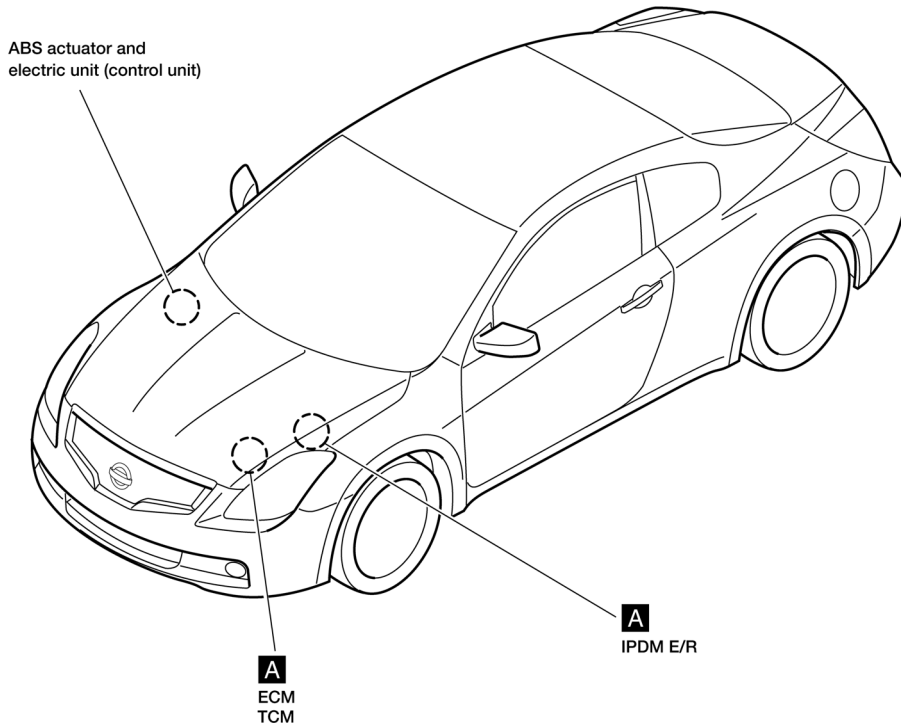
< COMPONENT DIAGNOSIS >

## ELECTRICAL UNITS LOCATION

### Electrical Units Location

INFOID:000000005434712

### ENGINE COMPARTMENT



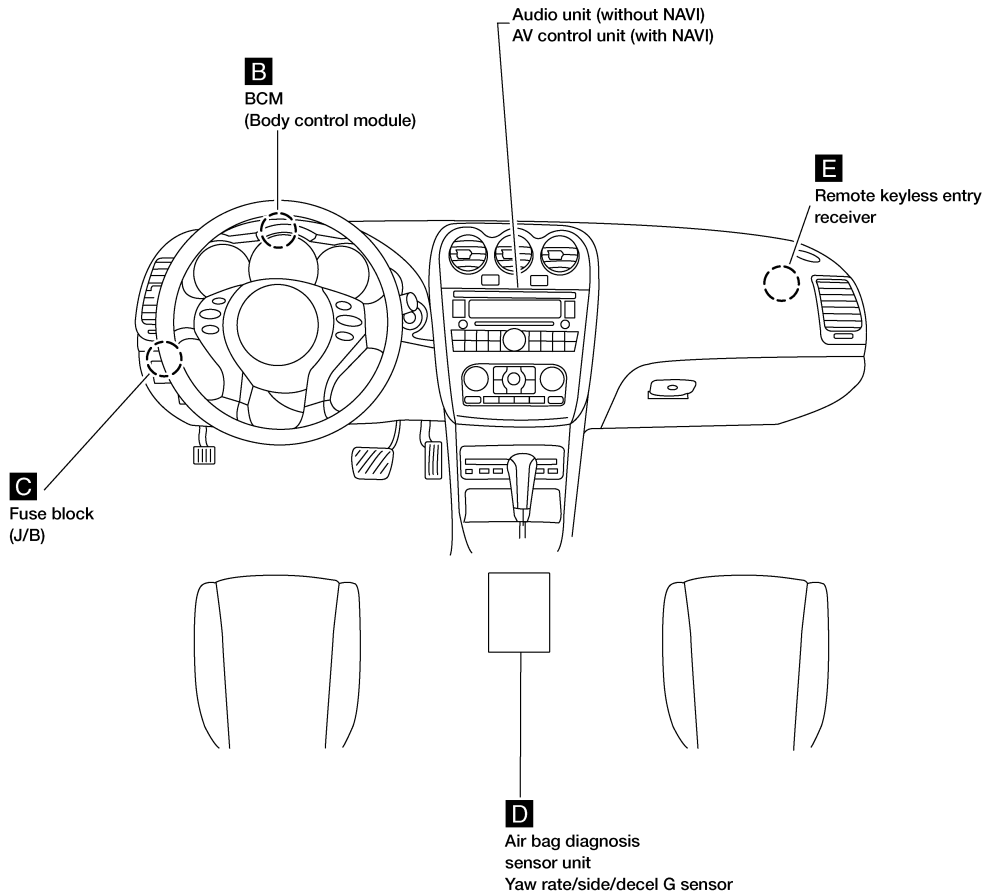
ABMIA1801GB



# ELECTRICAL UNITS LOCATION

[COUPE]

< COMPONENT DIAGNOSIS >  
PASSENGER COMPARTMENT



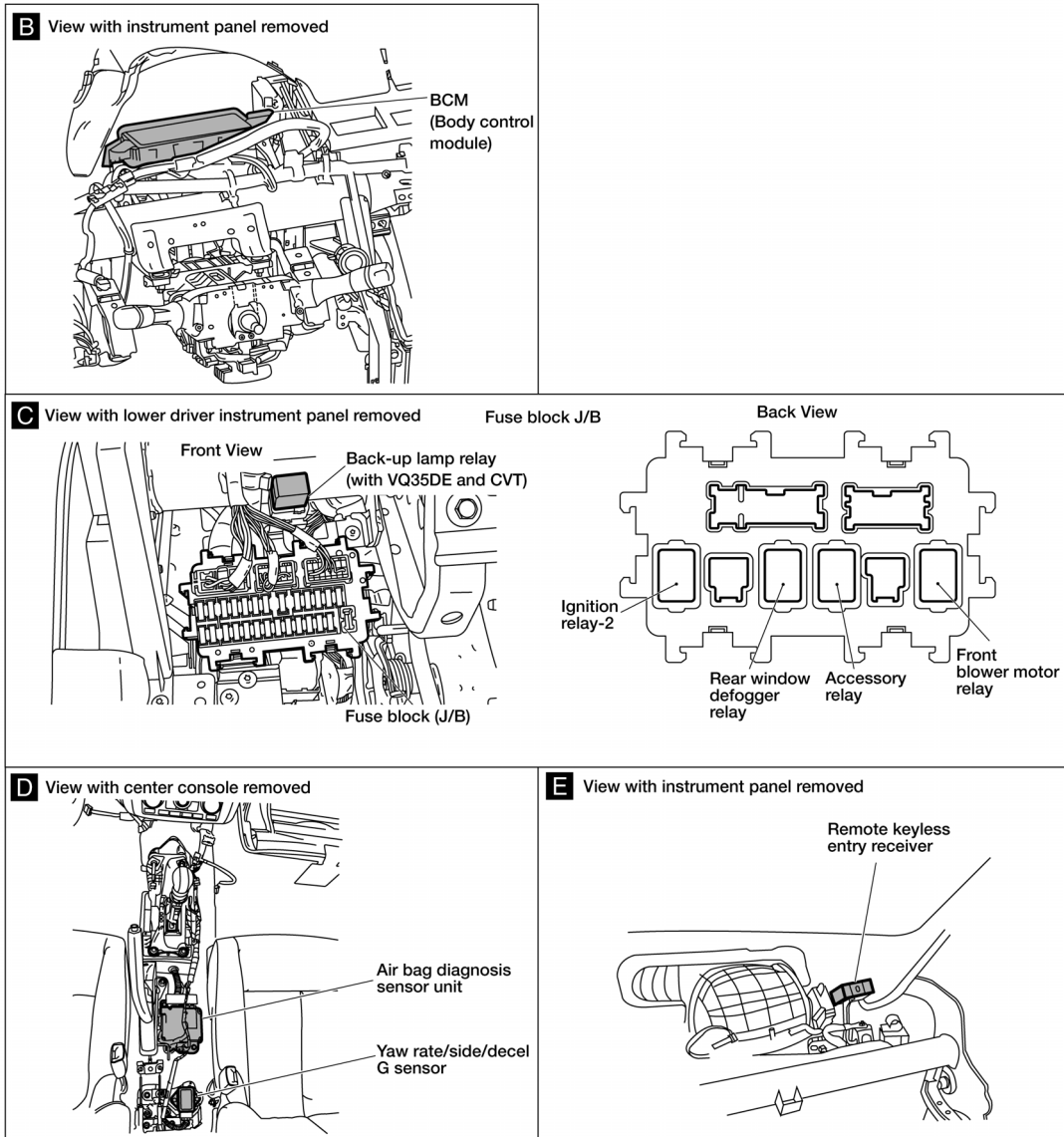
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# ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >

[COUPE]



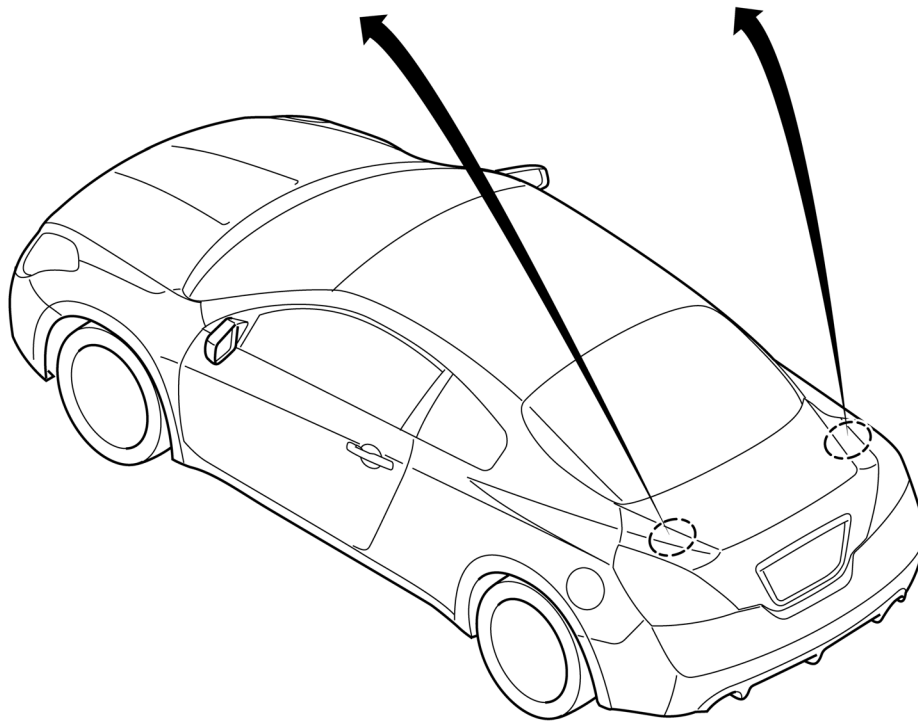
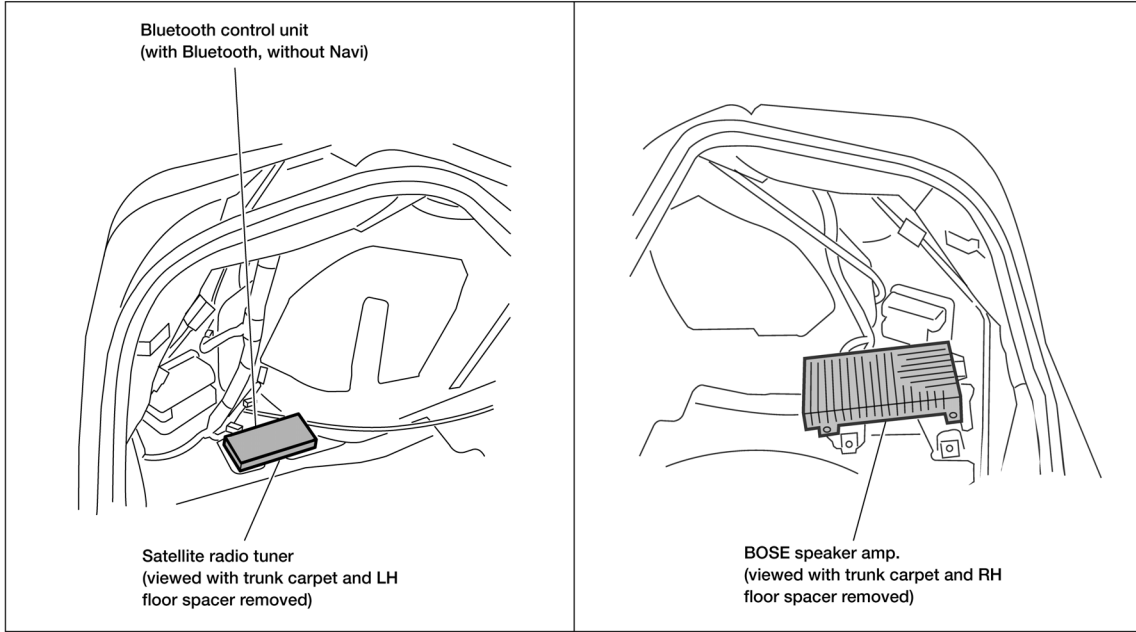
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# ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >

[COUPE]

## LUGGAGE COMPARTMENT



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ABMIA1804GB

## HARNESS CONNECTOR

### Description

INFOID:000000005434713

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

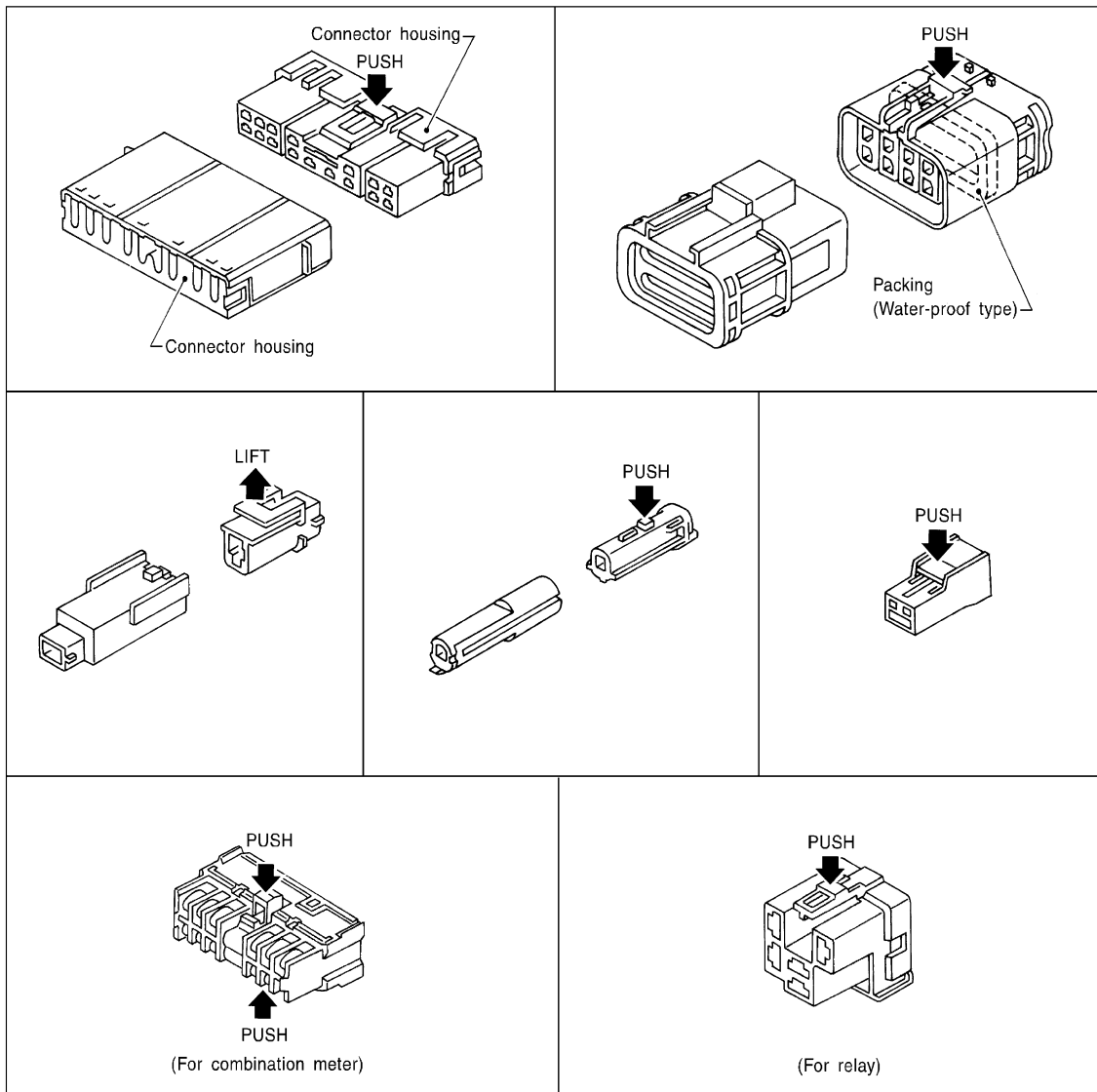
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

[COUPE]

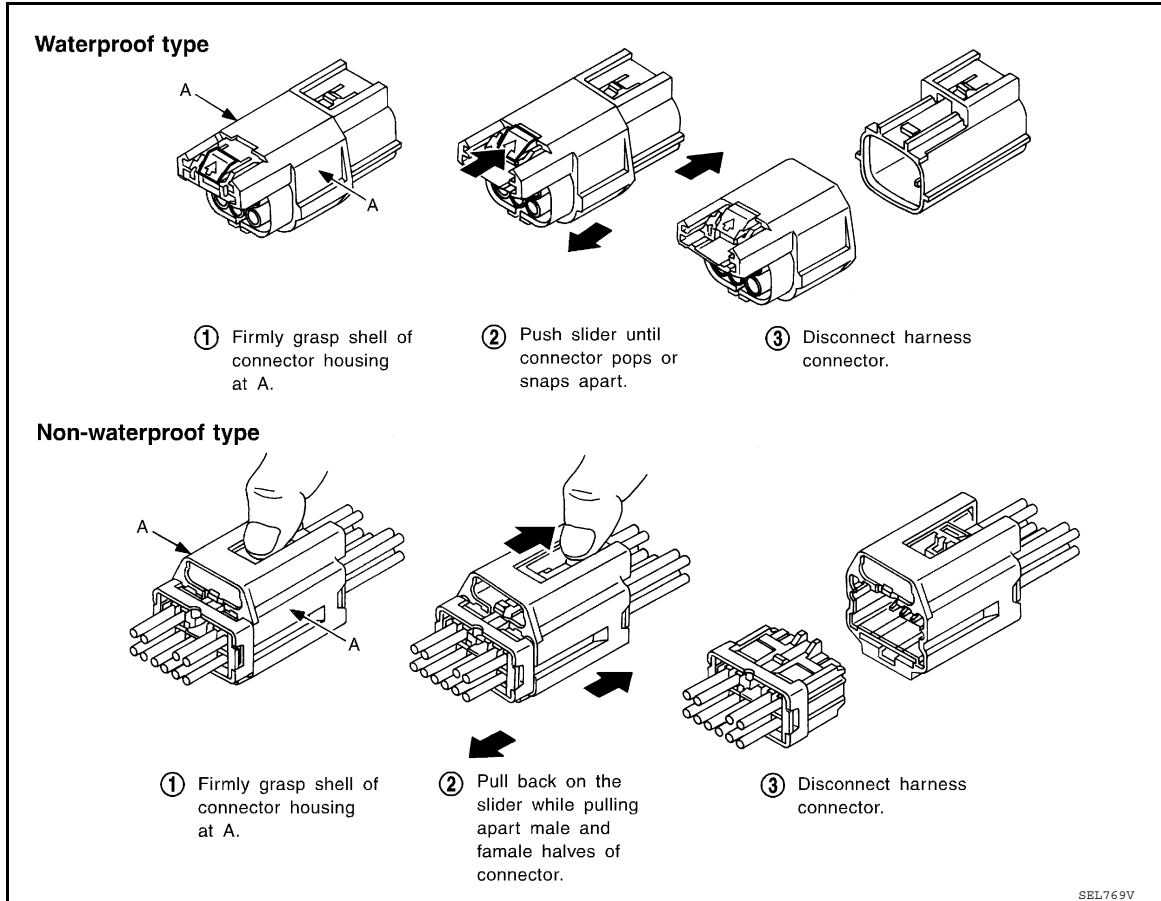
## < COMPONENT DIAGNOSIS >

- 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]



## HARNESS CONNECTOR (LEVER LOCKING TYPE)

- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked in place by moving the lever as far as it will go to ensure full connection.

### CAUTION:

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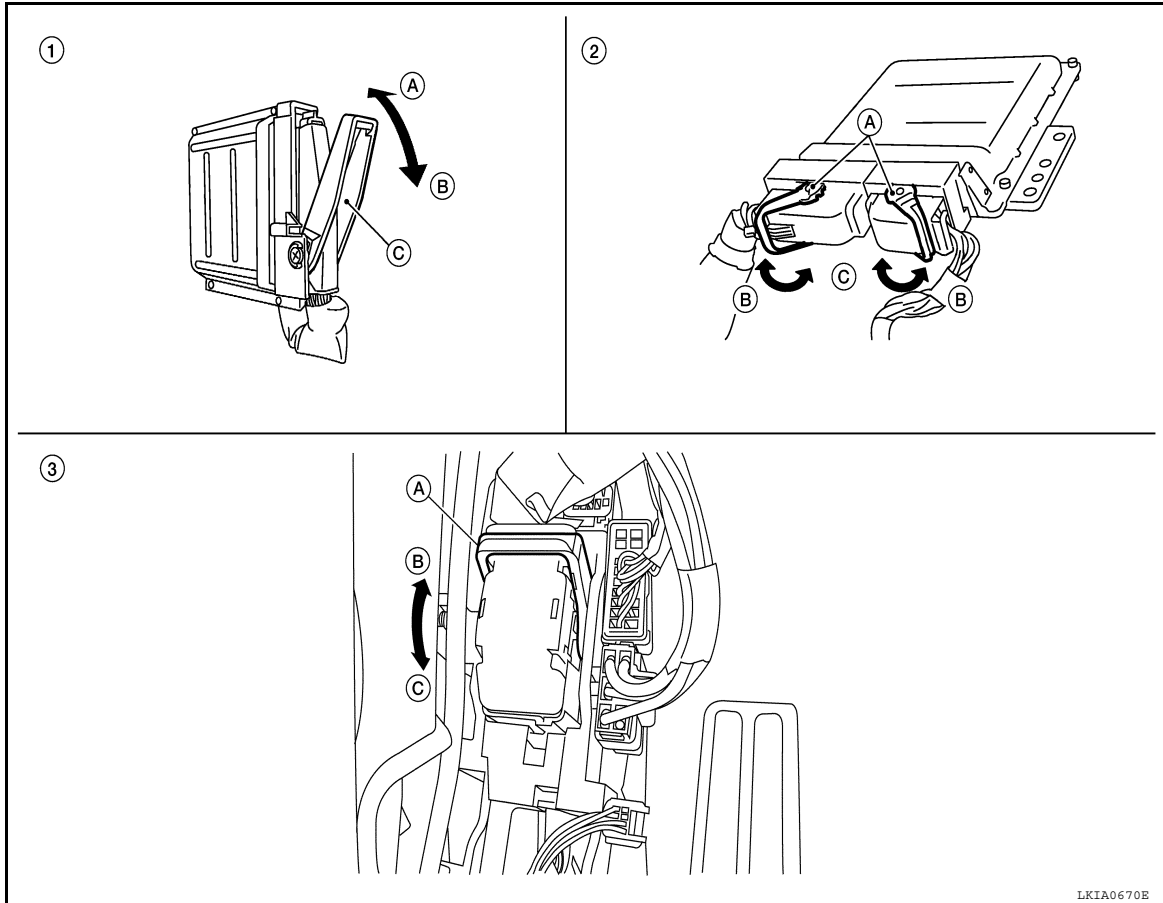
PG

# HARNESS CONNECTOR

[COUPE]

## < COMPONENT DIAGNOSIS >

- Always confirm the lever is fully released (loosened) before attempting to disconnect or connect these connectors to avoid damage to the connector housing or terminals.



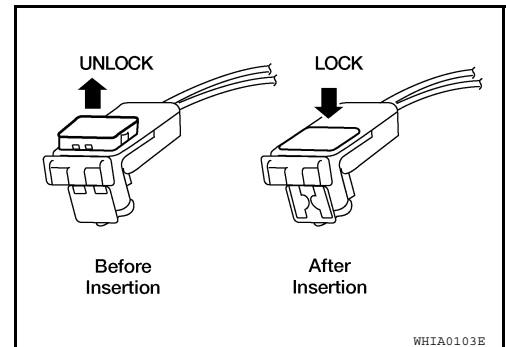
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|--|--|---|
| <p>1. Control unit with single lever</p> <p>A. Fasten</p> <p>B. Loosen</p> <p>C. Lever</p> | <p>2. Control unit with dual lever</p> <p>A. Fasten</p> <p>B. Loosen</p> <p>C. Lever</p> | <p>3. SMJ connector</p> <p>A. Fasten</p> <p>B. Loosen</p> <p>C. Lever</p> |
|--|--|---|

## 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 components.
- Always push down to lock black locking tab after installing connector to SRS components. When locked, the black locking tab is level with the connector housing.

### CAUTION:

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



# STANDARDIZED RELAY

< COMPONENT DIAGNOSIS >

[COUPE]

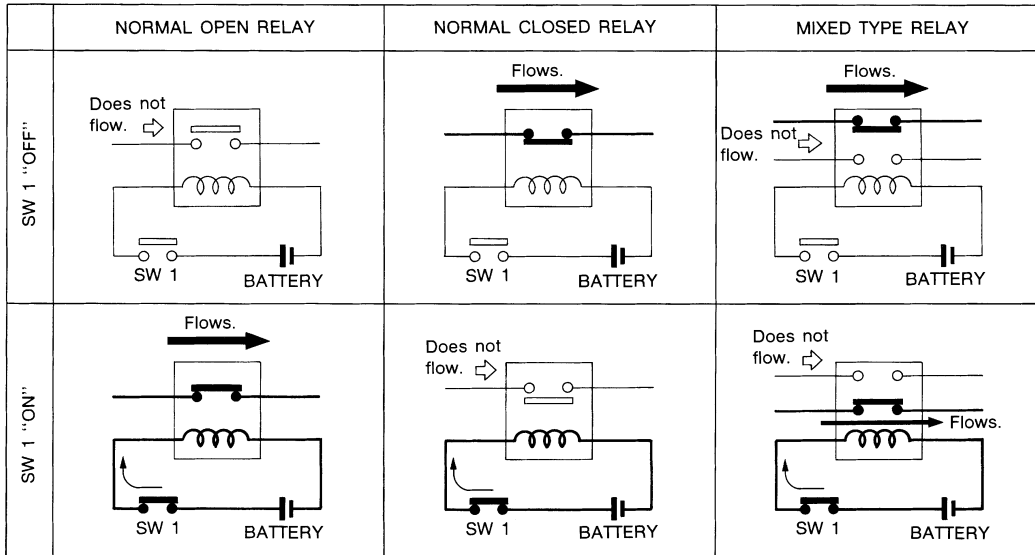
## STANDARDIZED RELAY

### Description

INFOID:000000005434714

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

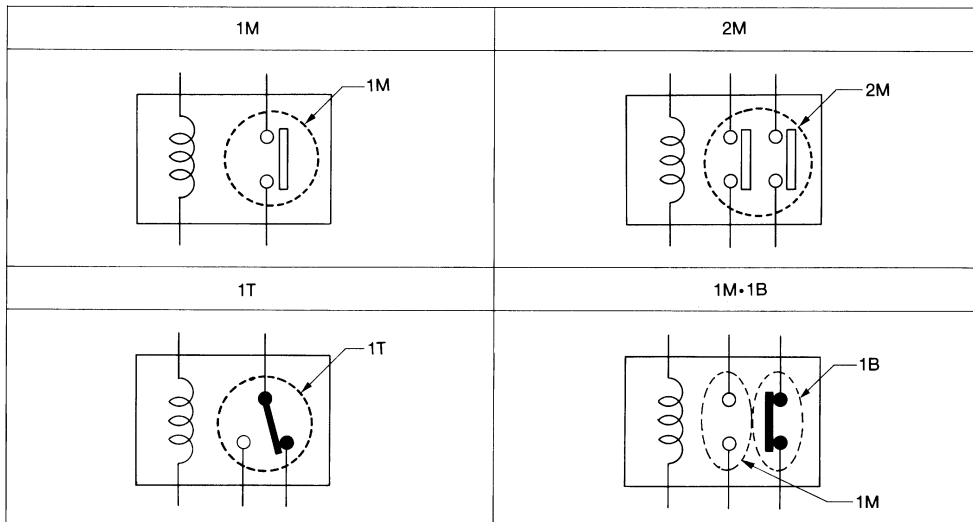
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

### TYPE OF STANDARDIZED RELAYS

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



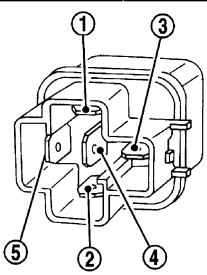
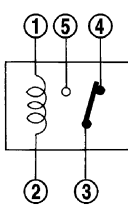
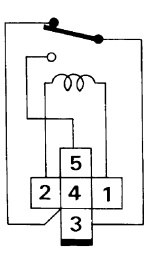
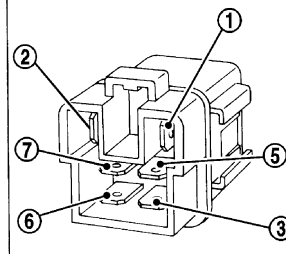
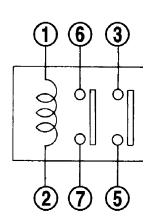
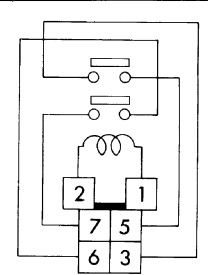
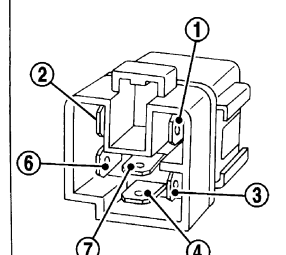
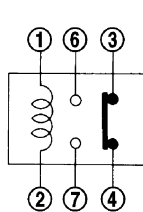
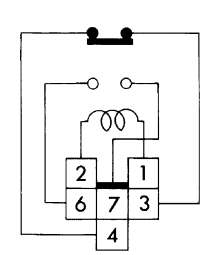
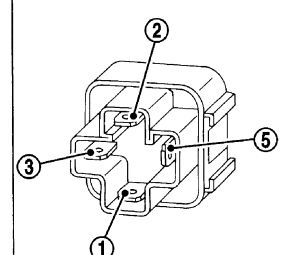
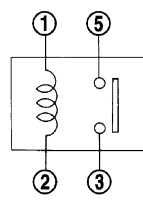
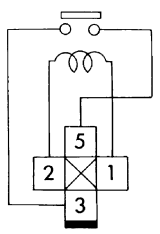
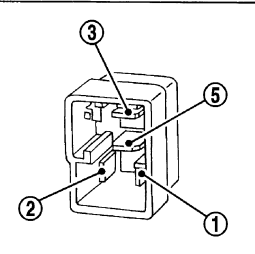
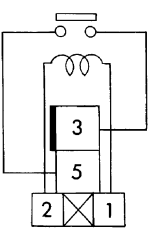
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# STANDARDIZED RELAY

< COMPONENT DIAGNOSIS >

[COUPE]

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



# FUSE BLOCK - JUNCTION BOX (J/B)

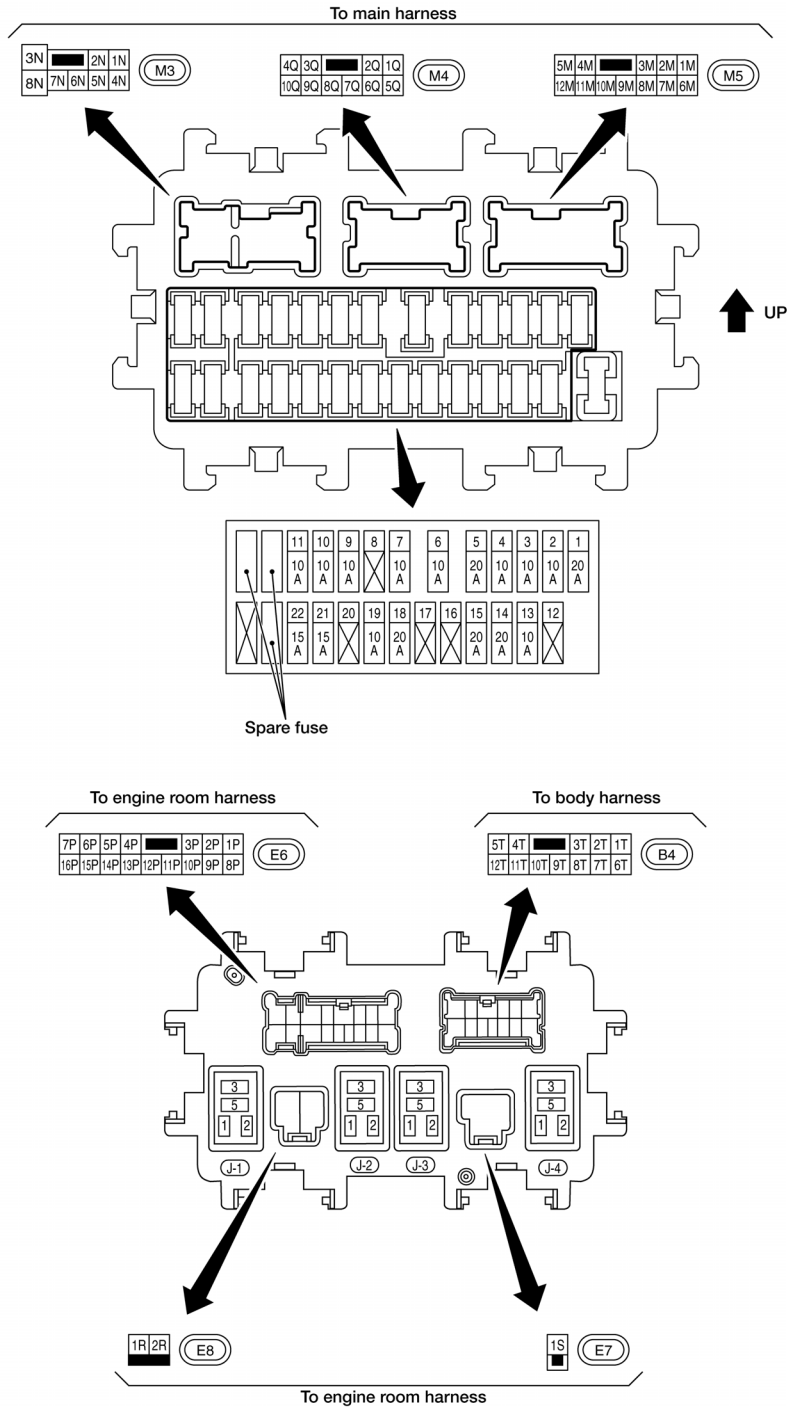
[COUPE]

< COMPONENT DIAGNOSIS >

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

### Terminal Arrangement

INFOID:000000005434715



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# FUSE, FUSIBLE LINK AND RELAY BOX

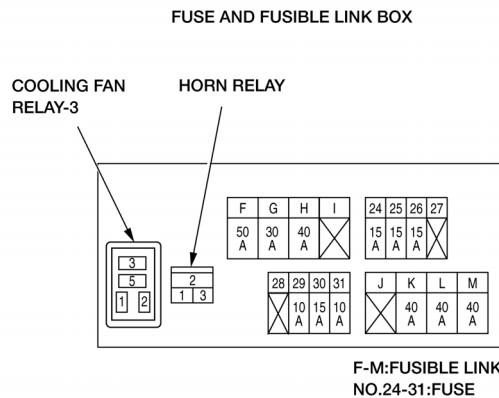
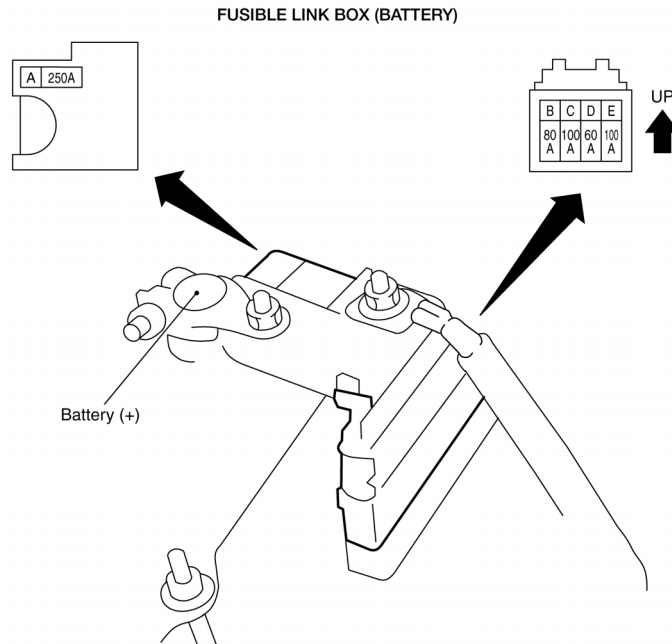
[COUPE]

< COMPONENT DIAGNOSIS >

## FUSE, FUSIBLE LINK AND RELAY BOX

### Terminal Arrangement

INFOID:000000005434716



ABMIA1806GB

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

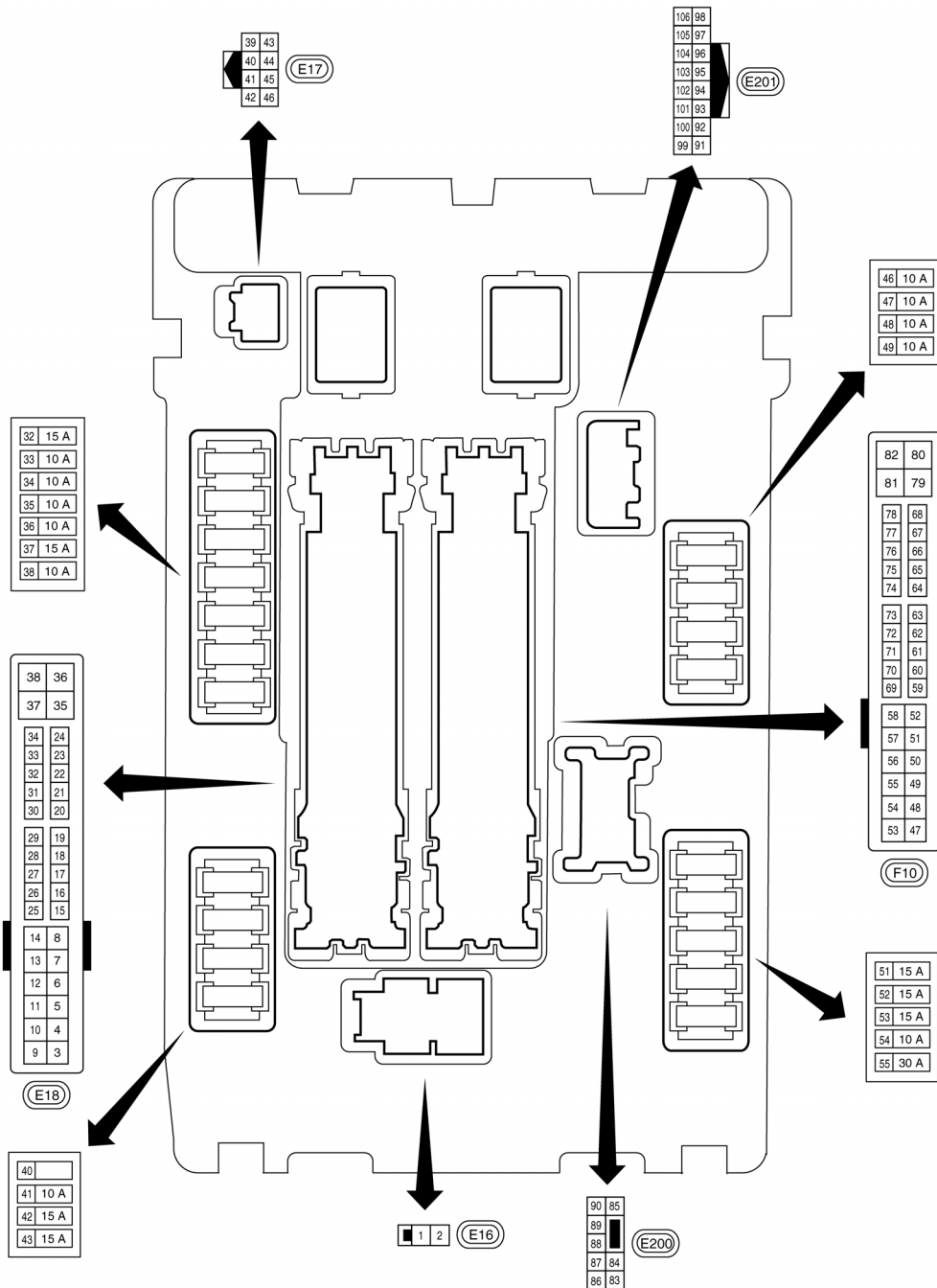
< COMPONENT DIAGNOSIS >

[COUPE]

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

### Fuse, Connector and Terminal Arrangement

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ABMIA1807GB

## PRECAUTION

### PRECAUTIONS

#### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000005783658

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 SR 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 SR 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.

#### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Battery Service

INFOID:000000005434720

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 >

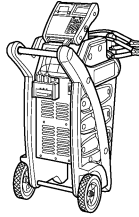
PREPARATION

PREPARATION

Special Service Tool

INFOID:000000005434721

Tool number (Kent-Moore No.) Tool name	Description
— (—) Model GR-8 Multitasking Battery Diagnostic Station	Tests batteries, starting and charging systems. For operating instructions, refer to diagnostic station instruction manual.

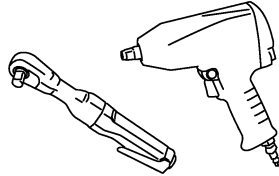


AWIIA1239ZZ

Commercial Service Tool

INFOID:000000005434722

Tool name	Description
Power tool	Loosening bolts and nuts



PBIC0190E

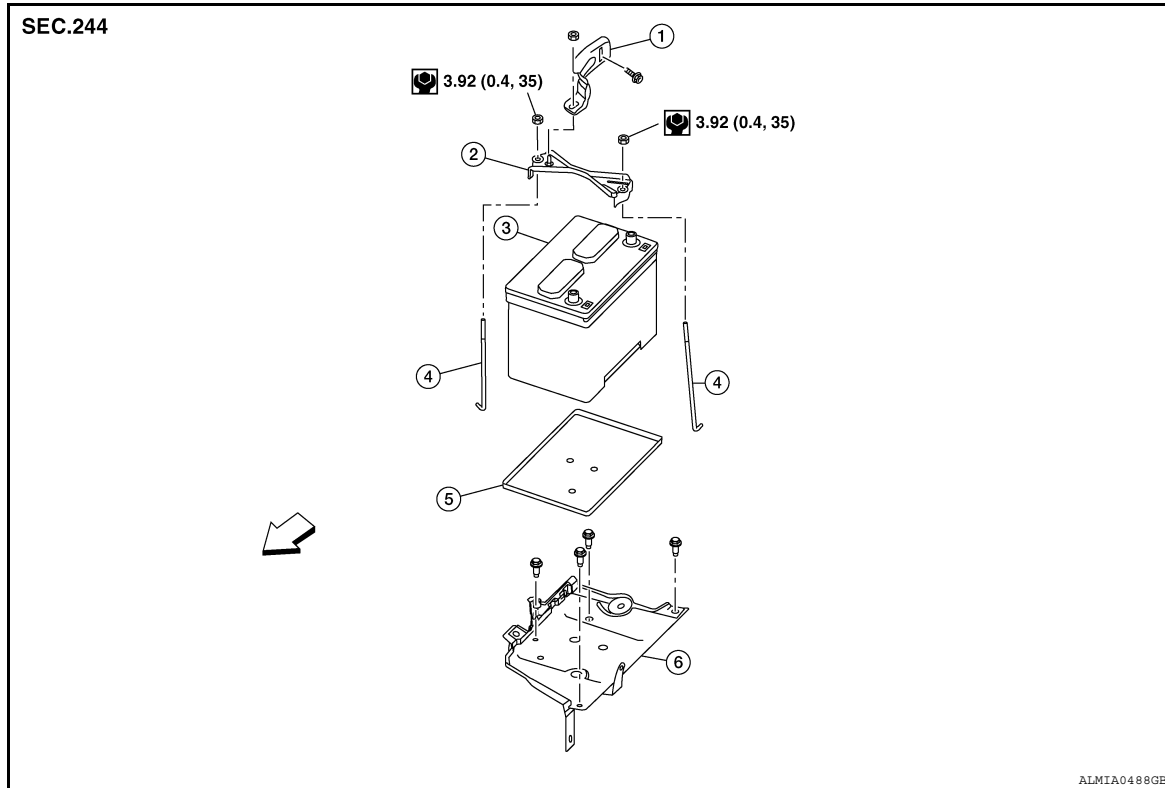
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## ON-VEHICLE REPAIR

### BATTERY

#### Exploded View

INFOID:000000005783635



- |                      |                       |                 |
|----------------------|-----------------------|-----------------|
| 1. Upper ECM bracket | 2. Battery frame      | 3. Battery      |
| 4. Battery rods      | 5. Battery tray liner | 6. Battery tray |
- ← Front

## Removal and Installation (Battery)

INFOID:000000005434723

### REMOVAL

1. Disconnect the battery negative and positive terminals.  
**CAUTION:**  
**Disconnect the negative terminal first.**
2. Remove battery frame nuts and battery frame.
3. Remove battery.

### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**  
**Connect the positive terminal first.**

**Battery 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)**

Reset electronic systems as necessary. Refer to [PG-6, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

## Removal and Installation (Battery Tray)

INFOID:000000005783636

### REMOVAL

1. Remove battery and battery tray liner. Refer to [PG-70, "Removal and Installation \(Battery\)"](#).
2. Remove air cleaner assembly. Refer to [EM-25, "Removal and Installation"](#) (QR25DE models) or [EM-129, "Removal and Installation"](#) (VQ35DE models).
3. Disconnect and remove ECM.
4. Disconnect transmission control module (TCM) (CVT models). Refer to [TM-251, "Removal and Installation"](#) (RE0F09B) or [TM-423, "Removal and Installation"](#) (RE0F10A).
5. Remove the ECM bracket.
6. Remove current sensor from battery tray.
7. Remove the battery tray bolts and battery tray.

### INSTALLATION

Installation is in the reverse order of removal.

Reset electronic systems as necessary. Refer to [PG-6, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

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# BATTERY

< SERVICE DATA AND SPECIFICATIONS (SDS)

[COUPE]

## SERVICE DATA AND SPECIFICATIONS (SDS)

### BATTERY

#### Battery

INFOID:000000005434724

Type*	GR.35 (BCI)
Capacity (20HR) minimum V-AH	12 - 63
Cold cranking current A @ -18°C (0°F)	550

\*: Always check with the Parts Department for the latest parts information



## BASIC INSPECTION

### BATTERY

#### How to Handle Battery

INFOID:000000005434725

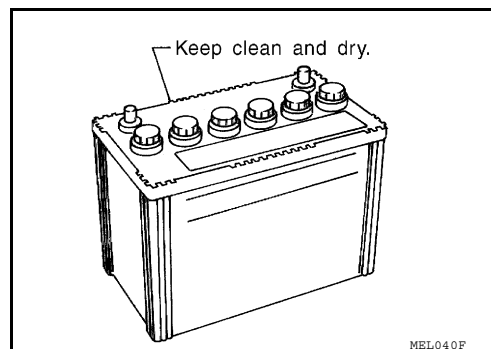
**CAUTION:**

- 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.

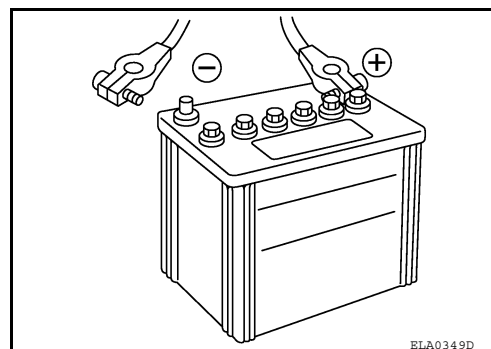
#### METHODS OF PREVENTING OVER-DISCHARGE

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

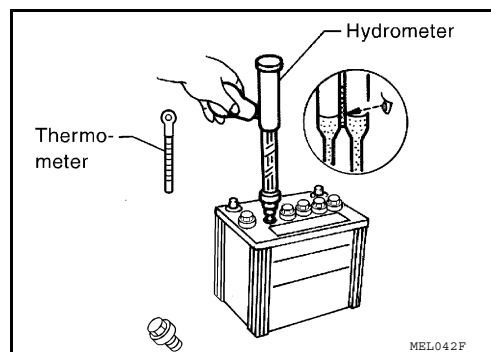
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level. This also applies to batteries designated as "low maintenance" and "maintenance-free".



- 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.

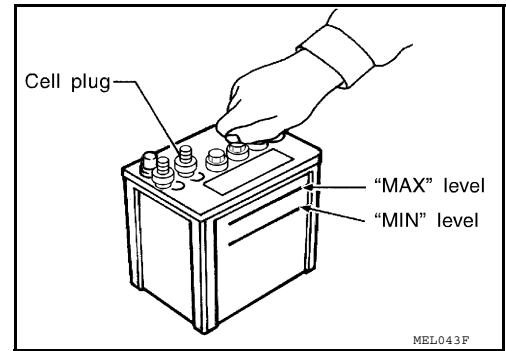
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# BATTERY

[SEDAN]

## < BASIC INSPECTION >

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

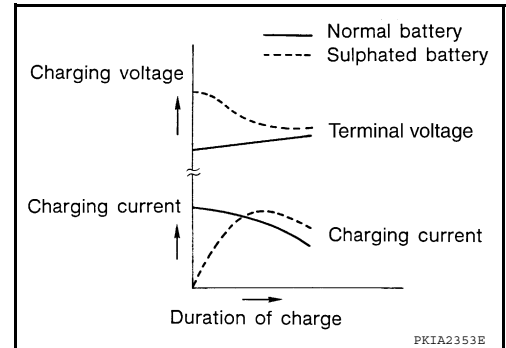


### Sulphation

**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.**

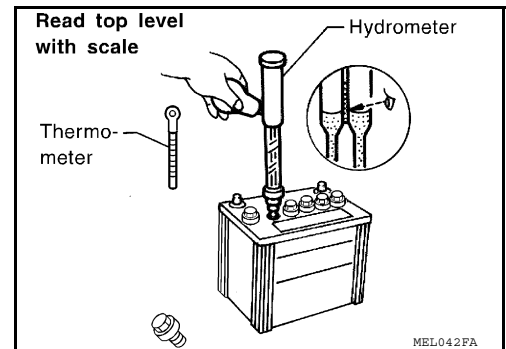
**To determine if a battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.**

**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

# BATTERY

[SEDAN]

## < 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

INFOID:000000005434726

## TROUBLE DIAGNOSIS WITH MULTITASKING BATTERY DIAGNOSTIC STATION

Refer to diagnostic station instruction manual.

PG

# INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

[SEDAN]

## INSPECTION AND ADJUSTMENT

### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

#### ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:000000005740524

#### Required Procedure After Battery Disconnection

System	Item	Reference
Engine Control	Idle Air Volume Learning	Refer to <a href="#">EC-32</a> , "IDLE AIR VOLUME LEARNING : Special Repair Requirement" (QR25DE for california), <a href="#">EC-575</a> , "IDLE AIR VOLUME LEARNING : Special Repair Requirement" (QR25DE except for california) or <a href="#">EC-1069</a> , "IDLE AIR VOLUME LEARNING : Special Repair Requirement" (VQ35DE).
Glass, Window & Mirrors	Power Window System Initialization	Refer to <a href="#">PWC-12</a> (LH only anti-pinch) or <a href="#">PWC-169</a> (LH & RH anti-pinch).
Roof	Sunroof Memory Reset/Initialization	Refer to <a href="#">RF-6</a> .
Automatic Temperature Control	Temperature Setting Trimmer	Refer to <a href="#">HAC-6</a> .
	Foot Position Setting Trimmer	Refer to <a href="#">HAC-6</a> .
	Inlet Port Memory Function	Refer to <a href="#">HAC-6</a> .
Audio-Visual System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation system	Refer to Owner's Manual.
	Rear View Monitor Guiding Line Adjustment	Refer to <a href="#">AV-267</a> .

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

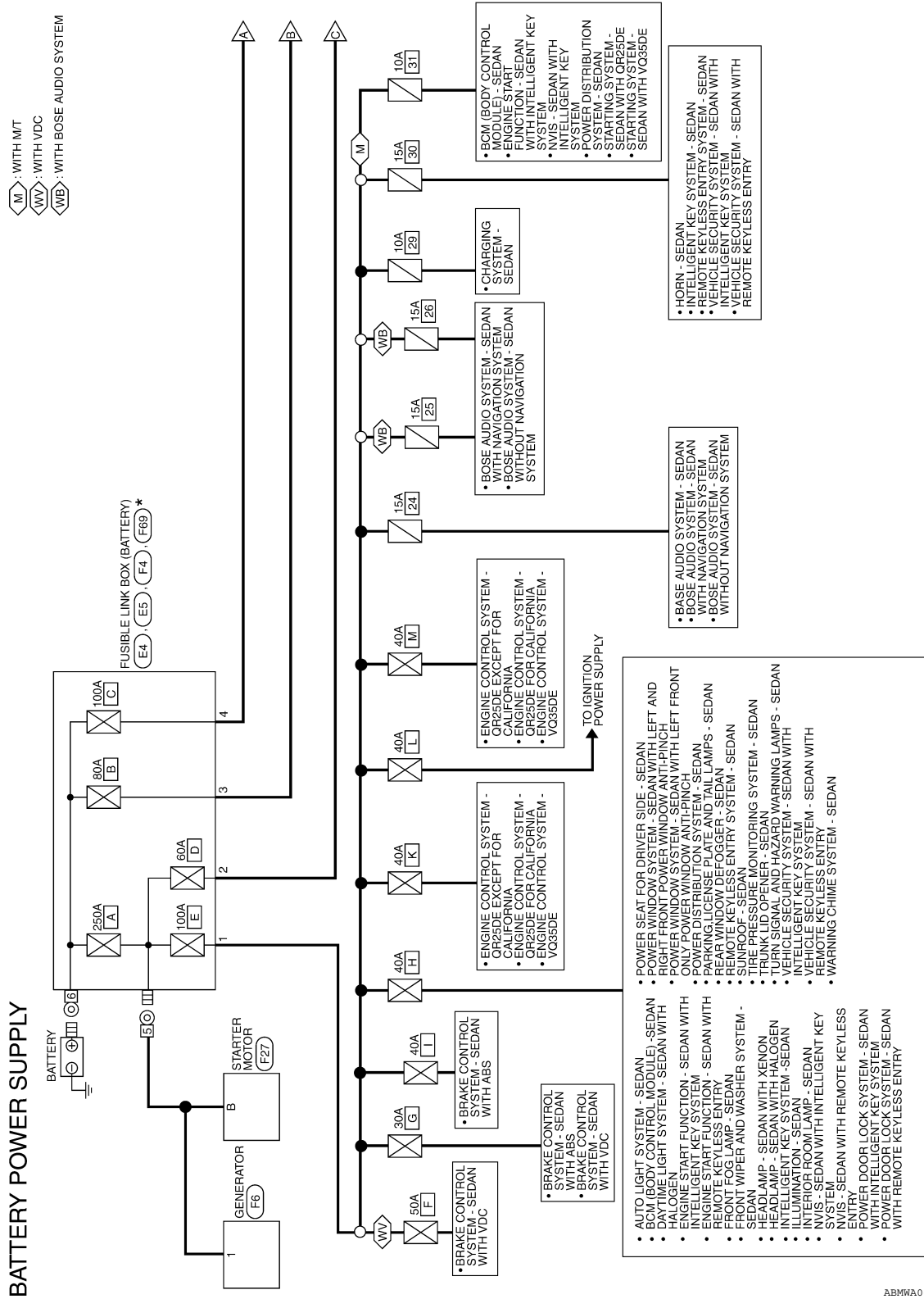
[SEDAN]

## COMPONENT DIAGNOSIS

### POWER SUPPLY ROUTING CIRCUIT

#### Wiring Diagram —Battery Power Supply—

INFOID:000000005803243

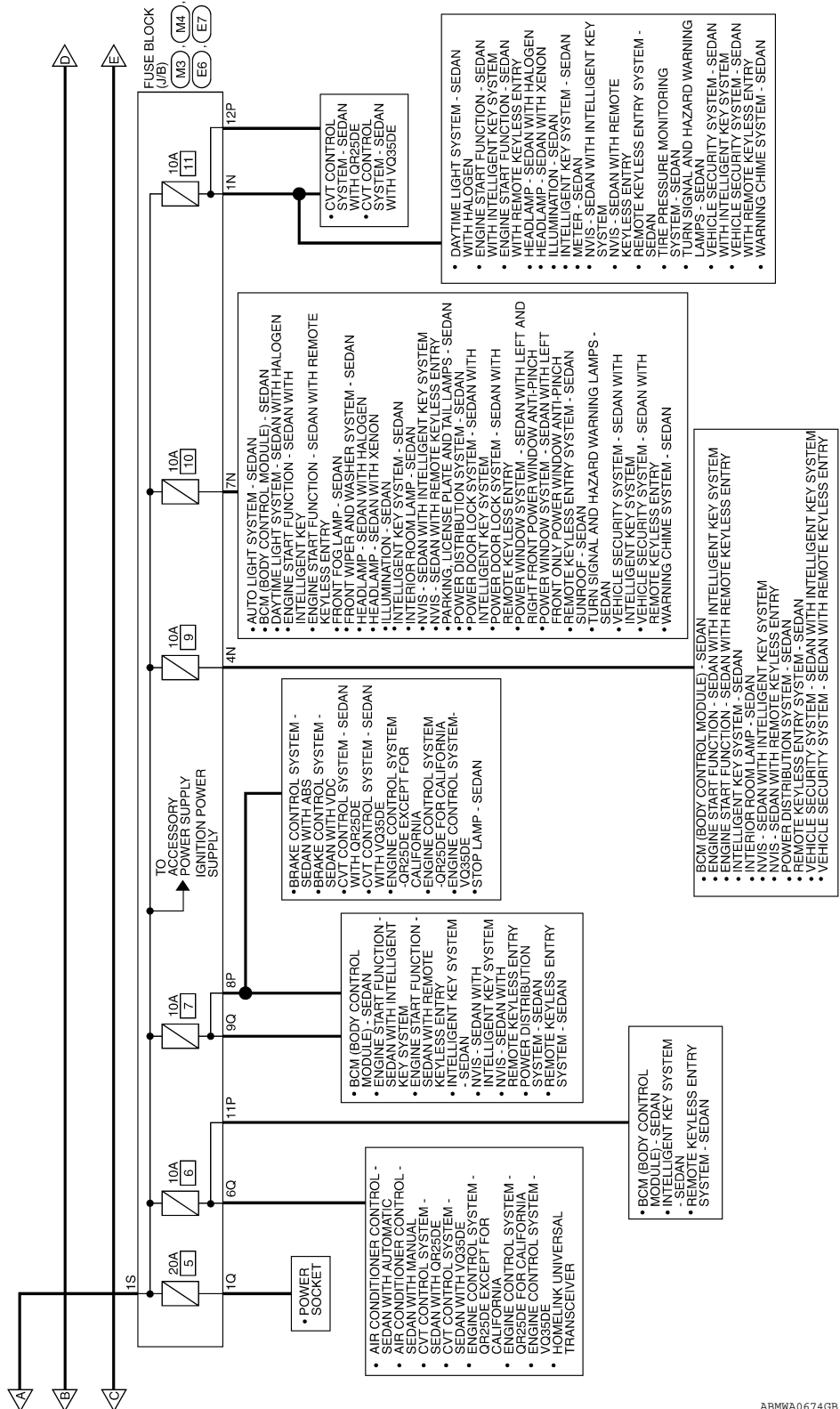


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# POWER SUPPLY ROUTING CIRCUIT

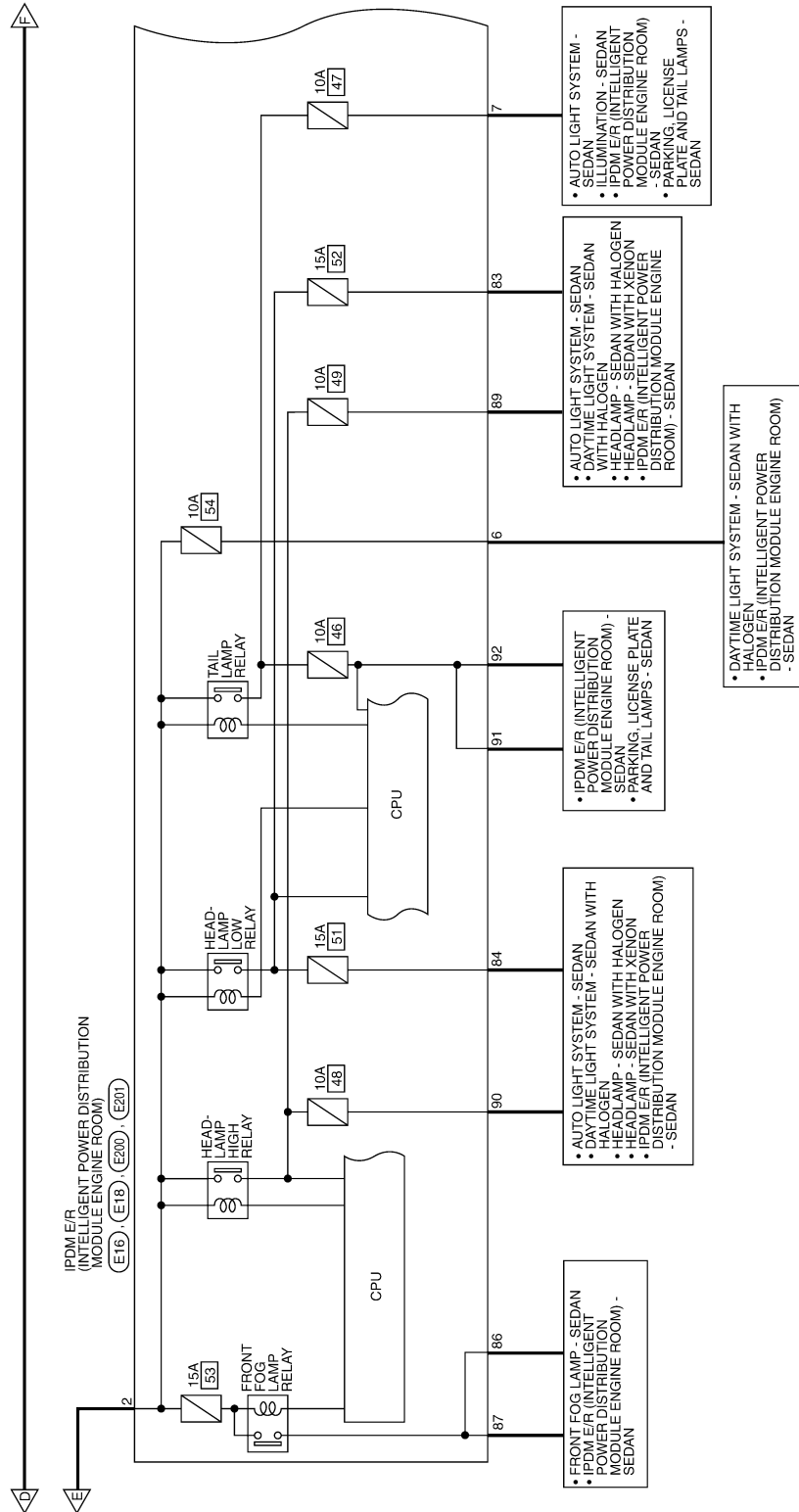
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[SEDAN]



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# POWER SUPPLY ROUTING CIRCUIT



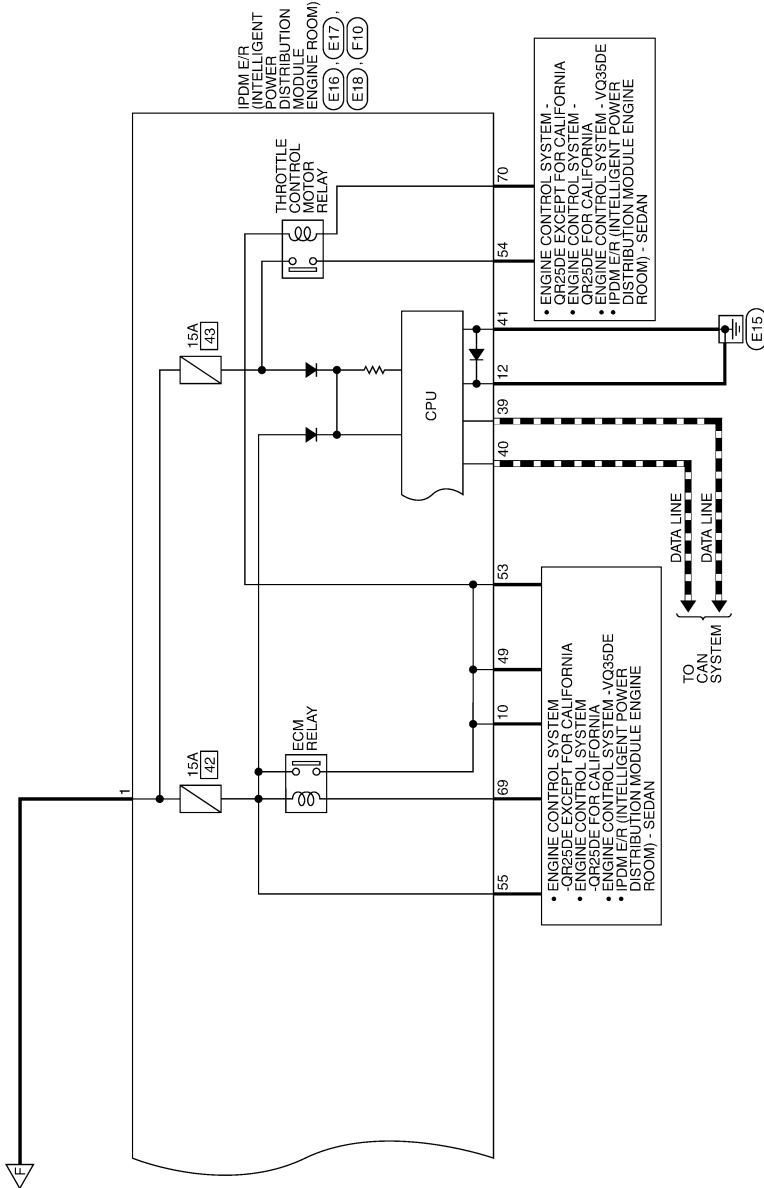
ABMWA0675GB

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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

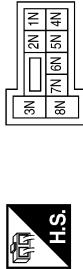


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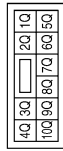
BATTERY POWER SUPPLY CONNECTORS

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	L	-

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	R	-
11P	G	-
12P	V	-

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



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

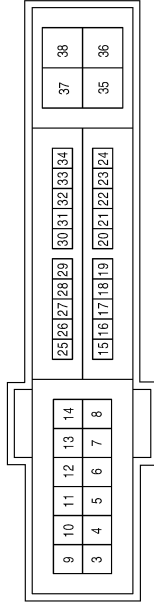
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

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	GR	TAIL/ILLUMI
10	BR	ECM VB
12	B	GND (POWER)

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



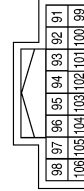
Terminal No.	Color of Wire	Signal Name
39	P	CAN-L
40	L	CAN-H
41	B	GND (SIGNAL)

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	L	F/L_USM

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

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.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

Connector No.	F6
Connector Name	GENERATOR
Connector Color	-



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

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



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

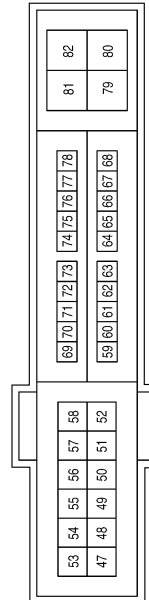
Connector No.	F27
Connector Name	STARTER MOTOR
Connector Color	-



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

Terminal No.	Color of Wire	Signal Name
49	V	IGN COIL (WITH VQ35DE)
49	V	ENG SOL (WITH QR25DE)
53	V	IGN COIL (WITH QR25DE)
53	G	ENG SOL (WITH VQ35DE)
54	GR	ETC
55	LG	ECM BAT
69	SB	SSOF
70	G	MOTRLY

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



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# POWER SUPPLY ROUTING CIRCUIT

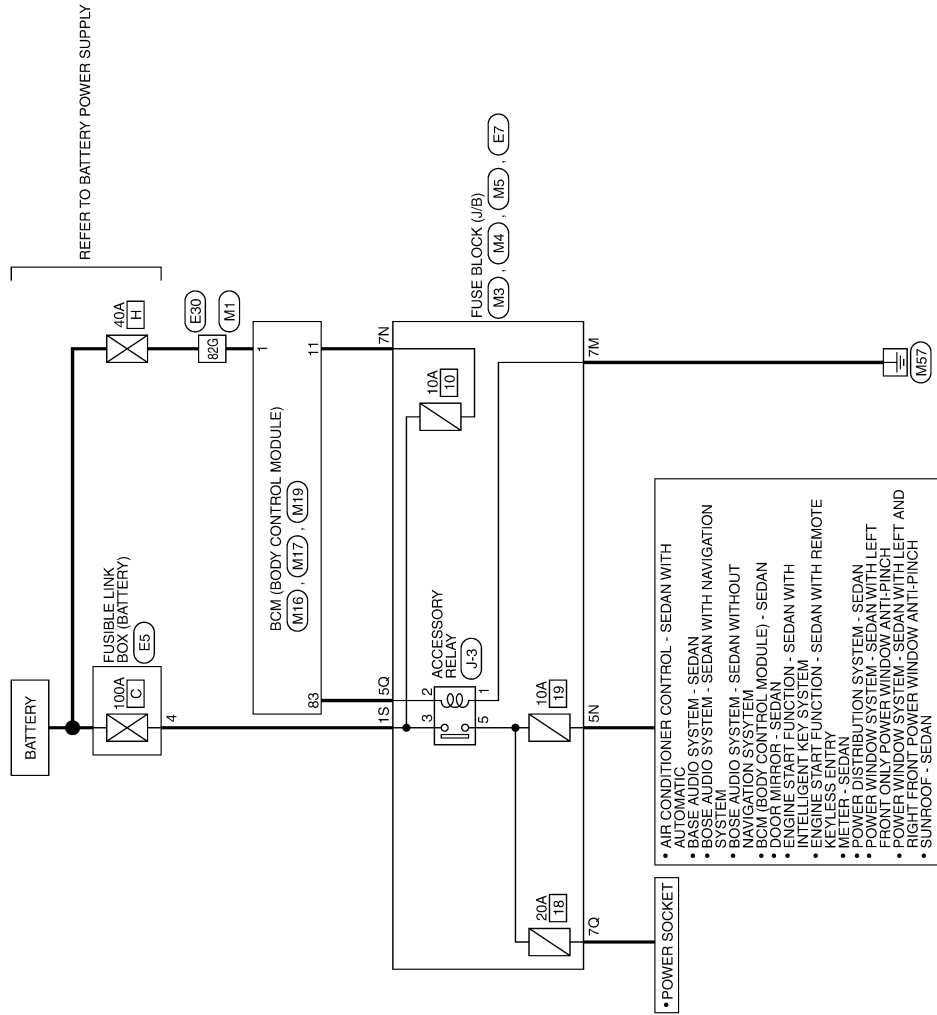
[SEDAN]

< COMPONENT DIAGNOSIS >

## Wiring Diagram —Accessory Power Supply—

INFOID:000000005803244

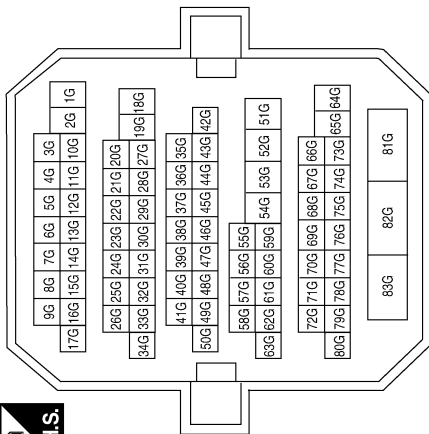
### ACCESSORY POWER SUPPLY



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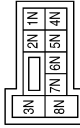
ACCESSORY POWER SUPPLY CONNECTORS

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



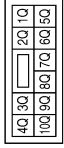
Terminal No.	Color of Wire	Signal Name
82G	W/B	-

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



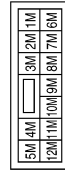
Terminal No.	Color of Wire	Signal Name
5N	V/Y	-
7N	Y/R	-

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

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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

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



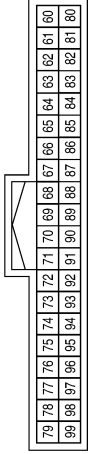
Terminal No.	1S	Color of Wire	W	Signal Name	-
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Connector No.	E5
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



Terminal No.	4	Color of Wire	W	Signal Name	-
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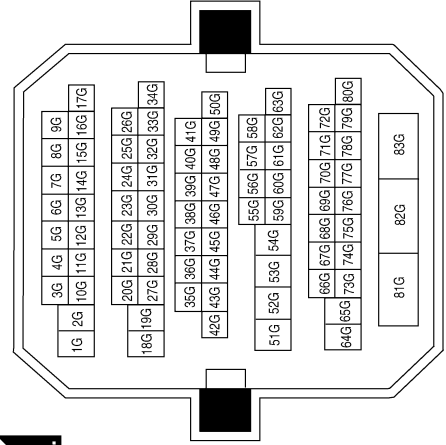
Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	83	Color of Wire	L	Signal Name	ACC_CONT
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Terminal No.	82	Color of Wire	LG	Signal Name	-
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Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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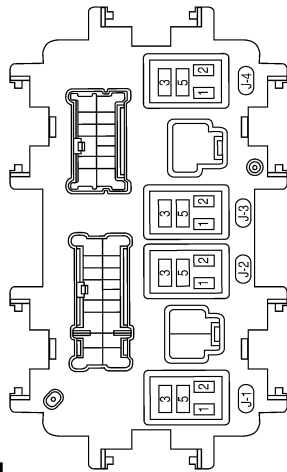
# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

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Connector No.	J-3
Connector Name	FUSE BLOCK (J/B) (ACCESSORY RELAY)
Connector Color	—



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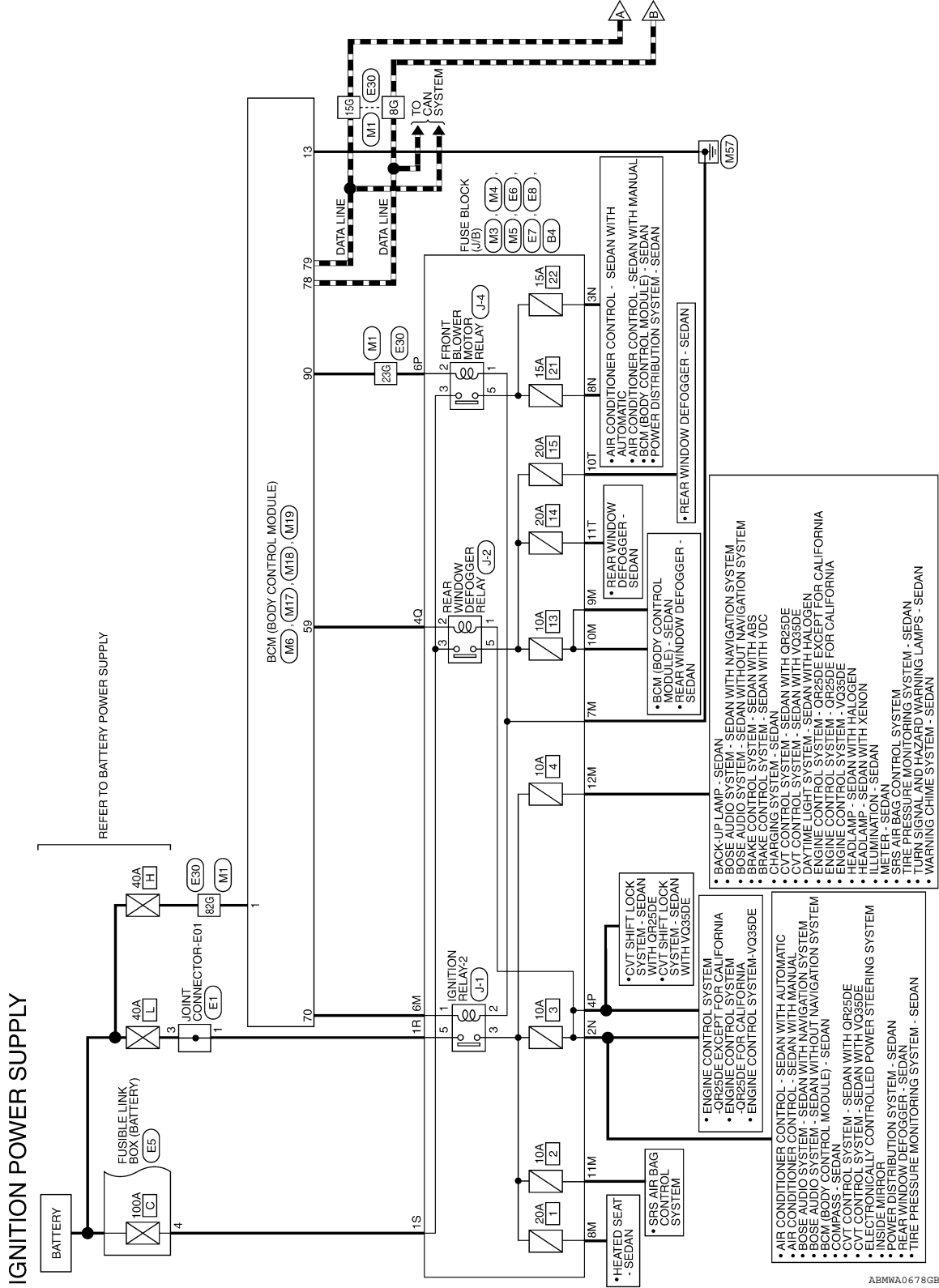
# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

## Wiring Diagram — Ignition Power Supply —

INFOID:000000005803245



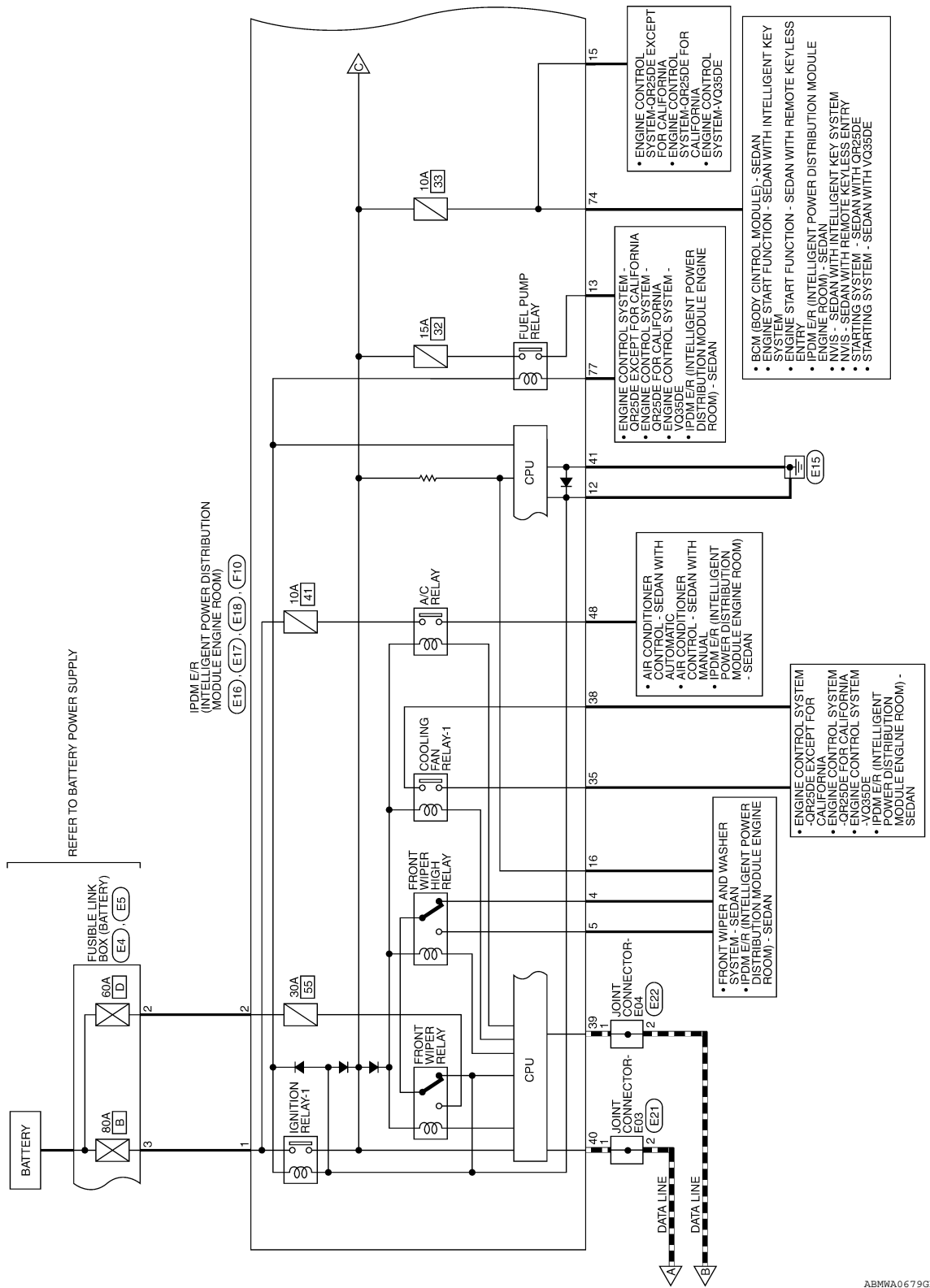
ABMWA0678GB



# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]



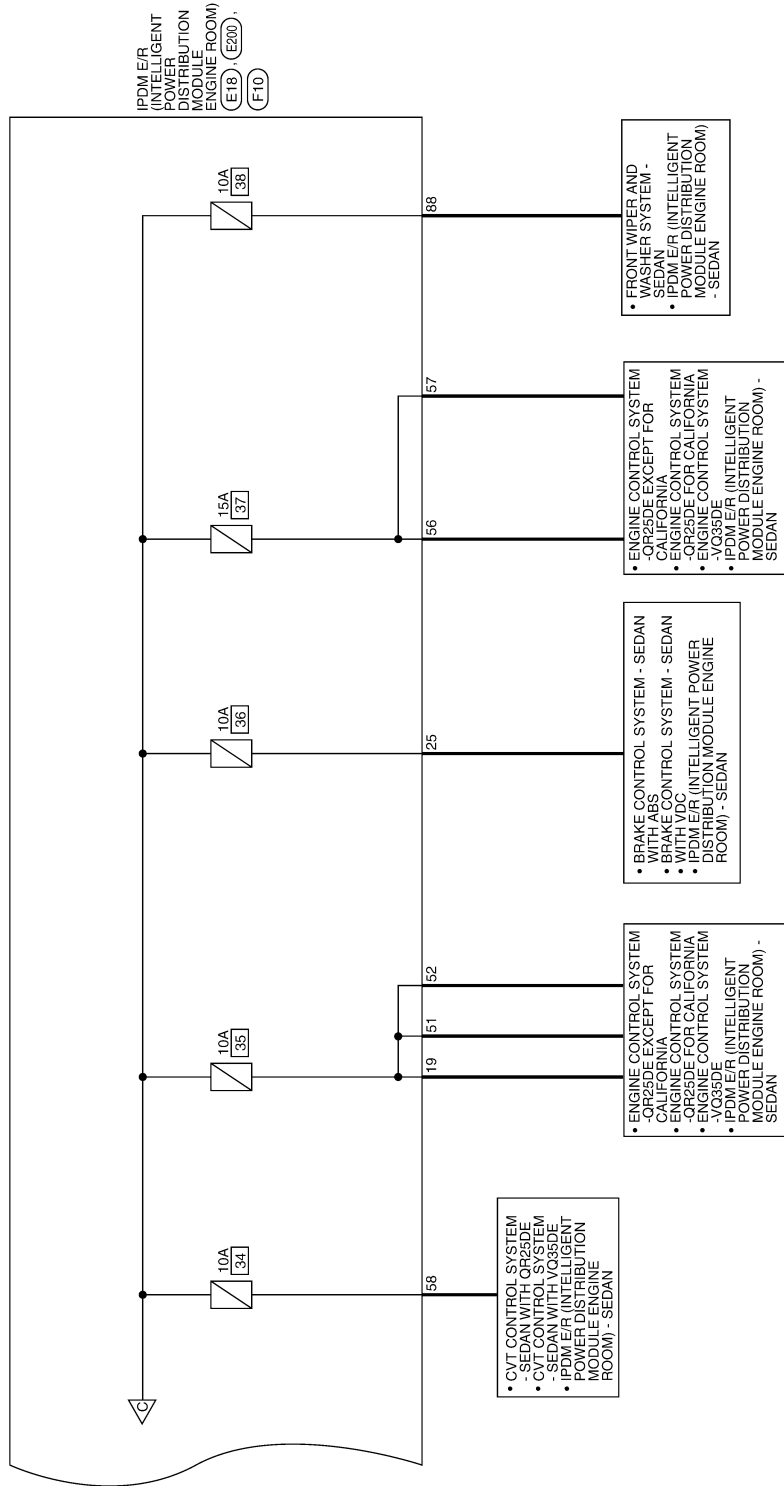
ABMWA0679GB

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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]



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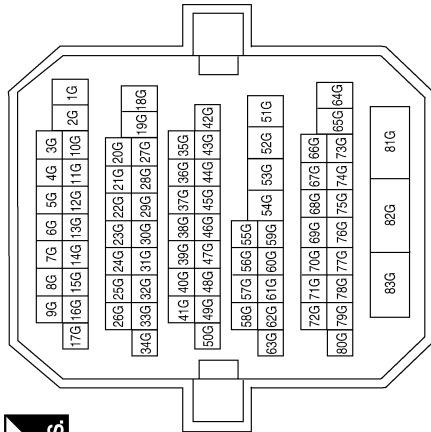
# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

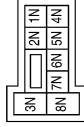
## IGNITION POWER SUPPLY CONNECTORS

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



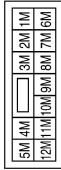
Terminal No.	Color of Wire	Signal Name
2N	G	-
3N	W/L	-
8N	W/L	-

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	O	-

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

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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

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

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
13	B	GND1


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



79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61	60
99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80

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


Connector No.	M19
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
99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81	80

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	L	-

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



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

ABMIA1762GB

# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

[SEDAN]

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



Terminal No.	1R	Color of Wire	G	Signal Name	-
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Connector No.	E7
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



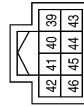
Terminal No.	1S	Color of Wire	W	Signal Name	-
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Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4P	P	- (WITH M/T)
4P	G/R	- (WITH CVT)
6P	Y	-

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	GND (SIGNAL)

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	L	F/L_USM

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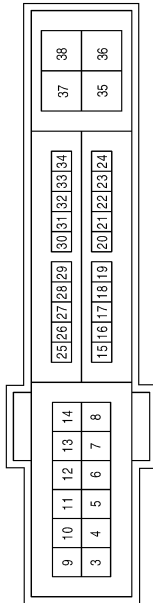
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# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

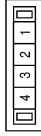
[SEDAN]

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/G	FR WIPER LO
5	Y	FR WIPER HI
12	B	GND (POWER)
13	SB	FUEL PUMP
15	W	START IG-E/R
16	L/Y	WIPER AUTOSTOP
19	Y	BCM IGNSW
25	GR	ABS ECU
35	P	MOTOR FAN LO
38	R/W	F/L MOTOR FAN

Connector No.	E21
Connector Name	JOINT CONNECTOR-E03
Connector Color	WHITE



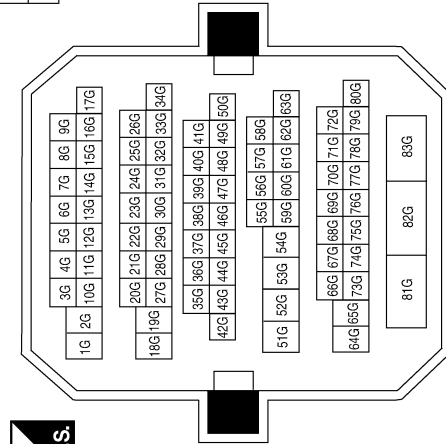
Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Connector No.	E22
Connector Name	JOINT CONNECTOR-E04
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-

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



Terminal No.	Color of Wire	Signal Name
8G	P	-
15G	L	-
23G	Y	-
82G	LG	-

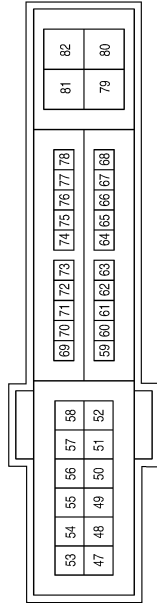
# POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

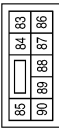
[SEDAN]

Terminal No.	Color of Wire	Signal Name
48	W	A/C COMP
51	SB	INJECTOR #1
52	Y	INJECTOR #2
56	R	O2 SENS #1
57	O	O2 SENS #2
58	BR	AT ECU
74	L	START IG-E-GI
77	GR	FPR

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

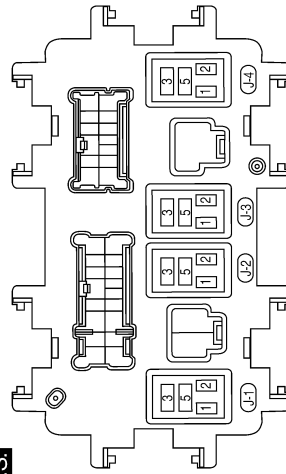


Connector No.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



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

Connector No.	J-1
Connector Name	FUSE BLOCK (J/B) (IGNITION RELAY-2)
Connector Color	-



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



Terminal No.	Color of Wire	Signal Name
10T	Y	-
11T	Y	-

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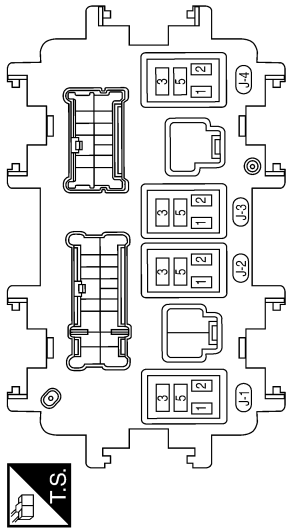
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# POWER SUPPLY ROUTING CIRCUIT

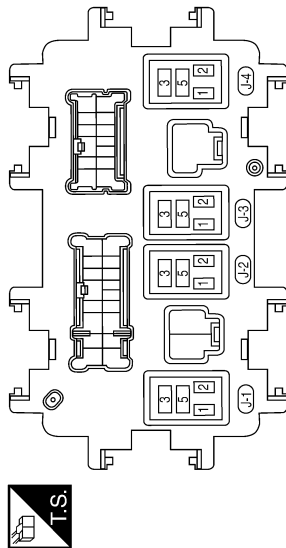
< COMPONENT DIAGNOSIS >

[SEDAN]

Connector No.	J-4
Connector Name	FUSE BLOCK (J/B) (FRONT BLOWER MOTOR RELAY)
Connector Color	-



Connector No.	J-2
Connector Name	FUSE BLOCK (J/B) (REAR WINDOW DEFOGGER RELAY)
Connector Color	-



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# POWER SUPPLY ROUTING CIRCUIT

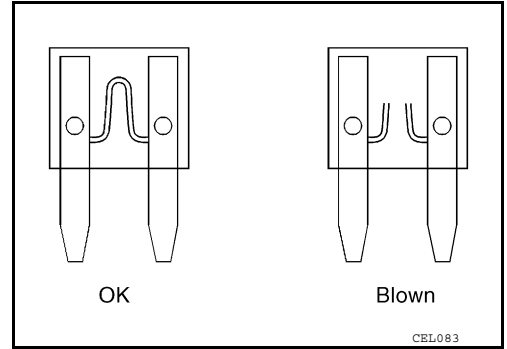
[SEDAN]

< COMPONENT DIAGNOSIS >

## Fuse

INFOID:000000005434731

- 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

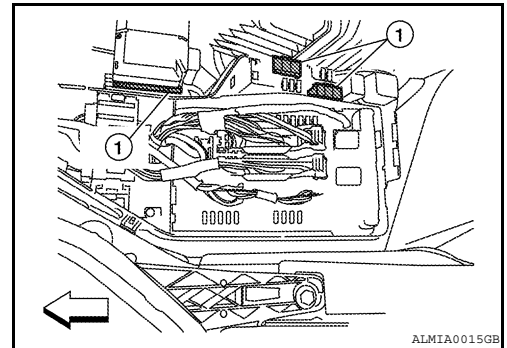
INFOID:000000005434732

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.



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# GROUND

[SEDAN]

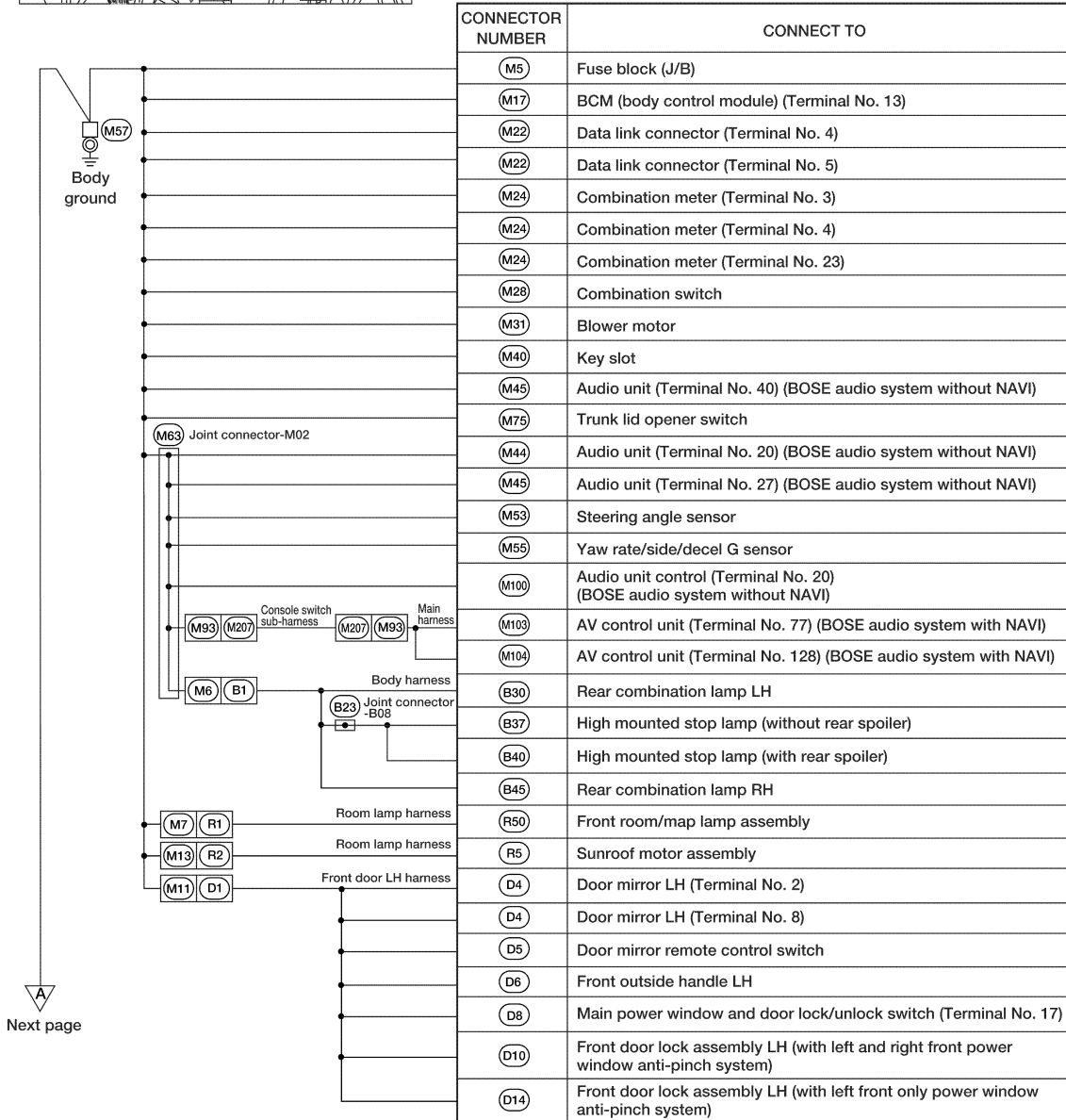
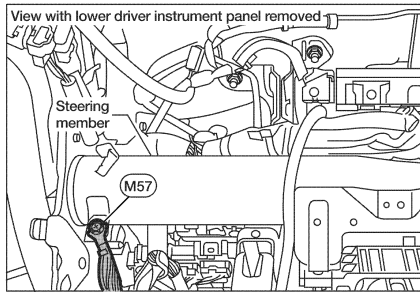
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## GROUND

### Ground Distribution

INFOID:000000005434733

### MAIN HARNESS



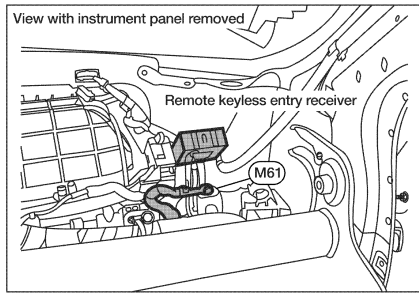
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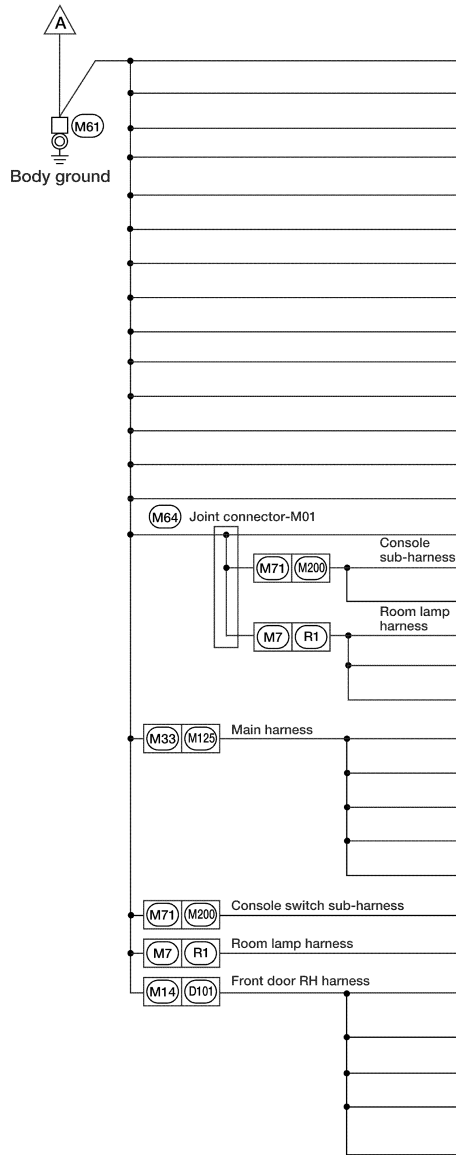
# GROUND

## < COMPONENT DIAGNOSIS >

[SEDAN]



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CONNECTOR NUMBER	CONNECT TO
(M23)	CVT shift selector (Terminal No. 4)
(M23)	CVT shift selector (Terminal No. 7)
(M35)	Air bag diagnosis sensor unit (Terminal No. 2)
(M36)	Front passenger air bag off indicator
(M37)	Front air control (Terminal No. 6) (without auto A/C)
(M37)	Front air control (Terminal No. 7) (without auto A/C)
(M38)	Push-button ignition switch
(M54)	Hazard switch
(M59)	Power steering control unit (Terminal No. 6)
(M68)	Glove box lamp
(M74)	Trunk lid opener cancel switch
(M76)	Front power socket
(M152)	Front air control (Terminal No. 17) (with auto A/C)
(M152)	Front air control (Terminal No. 37) (with auto A/C)
(M72)	VDC off switch
(M201)	Front heated seat switch LH
(M202)	Front heated seat switch RH
(R3)	Vanity mirror lamp LH
(R9)	Vanity mirror lamp RH
(R4)	Auto anti-dazzling inside mirror
(M126)	Intake door motor
(M127)	Mode door motor
(M128)	Air mix door motor LH
(M129)	Air mix door motor RH
(M130)	Air mix door motor
(M209)	Front console power socket
(R7)	Microphone shield
(D105)	Power window and door lock/unlock switch RH (Terminal No. 11) (with left and right front power window anti-pinch system)
(D106)	Front outside handle RH
(D107)	Door mirror RH (Terminal No. 2)
(D107)	Door mirror RH (Terminal No. 8)
(D110)	Power window and door lock/unlock switch RH (with left front only power window anti-pinch system)

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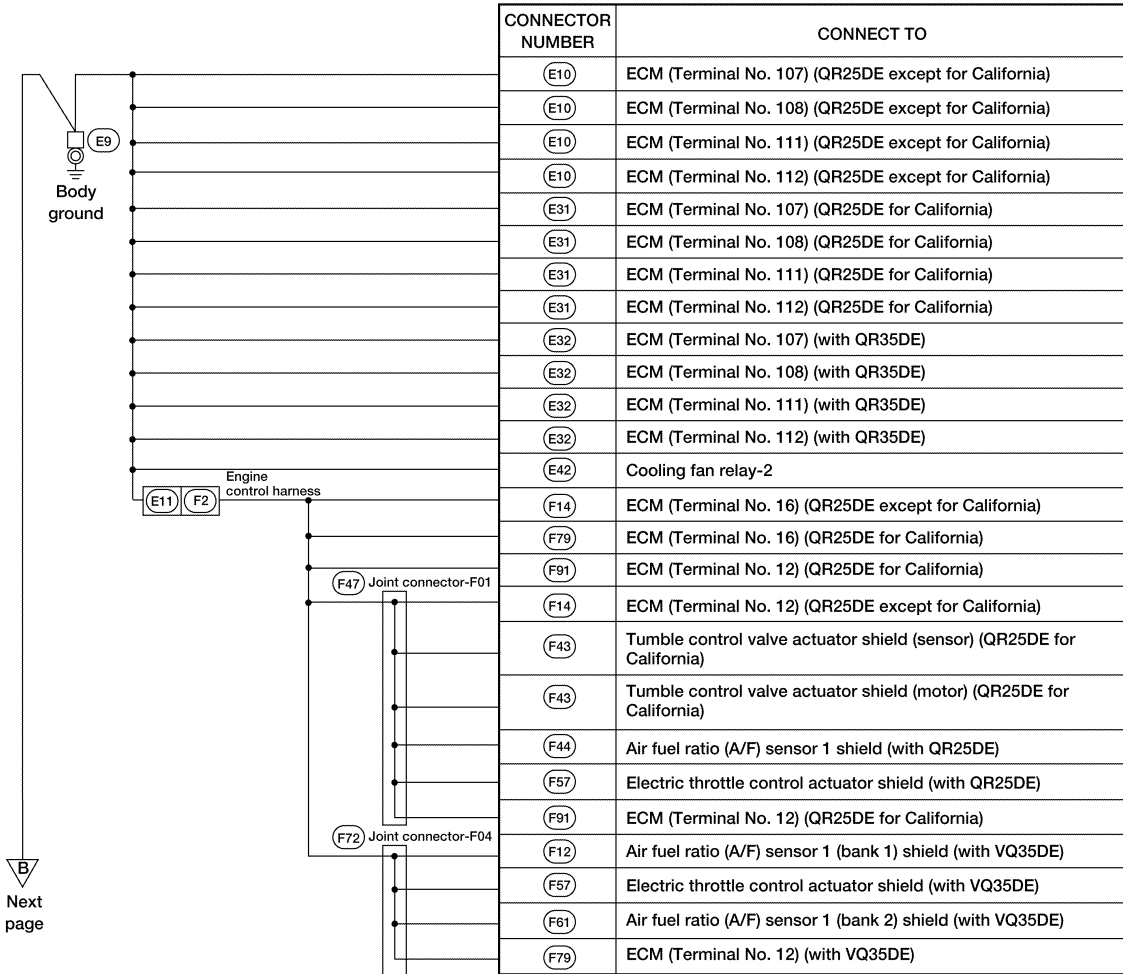
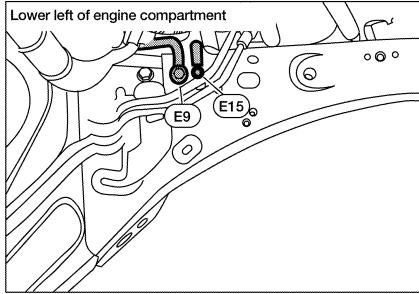
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# GROUND

[SEDAN]

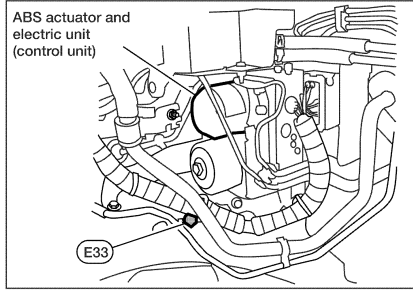
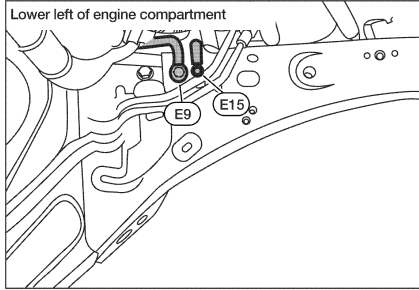
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## ENGINE ROOM HARNESS

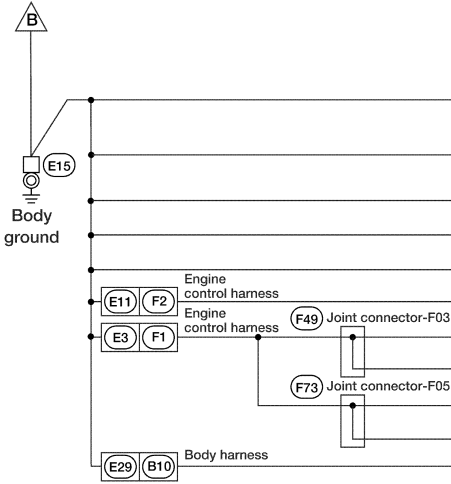


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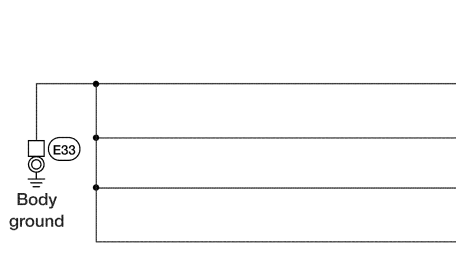
# GROUND



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CONNECTOR NUMBER	CONNECT TO
(E17)	IPDM E/R (intelligent power distribution module engine room) (Terminal No. 41)
(E18)	IPDM E/R (intelligent power distribution module engine room) (Terminal No. 12)
(E24)	Brake fluid level switch
(E25)	Front wiper motor
(E43)	Cooling fan relay-3
(F3)	A/C compressor
(F16)	TCM (transmission control module) (Terminal No. 5) (with QR25DE)
(F16)	TCM (transmission control module) (Terminal No. 42) (with QR25DE)
(F33)	TCM (transmission control module) (Terminal No. 5) (with VQ35DE)
(F33)	TCM (transmission control module) (Terminal No. 42) (with VQ35DE)
(B42)	Fuel level sensor unit and fuel pump



CONNECTOR NUMBER	CONNECT TO
(E26)	ABS actuator and electric unit (control unit) (Terminal No. 1) (with ABS)
(E26)	ABS actuator and electric unit (control unit) (Terminal No. 4) (with ABS)
(E54)	ABS actuator and electric unit (control unit) (Terminal No. 1) (with VDC)
(E54)	ABS actuator and electric unit (control unit) (Terminal No. 4) (with VDC)

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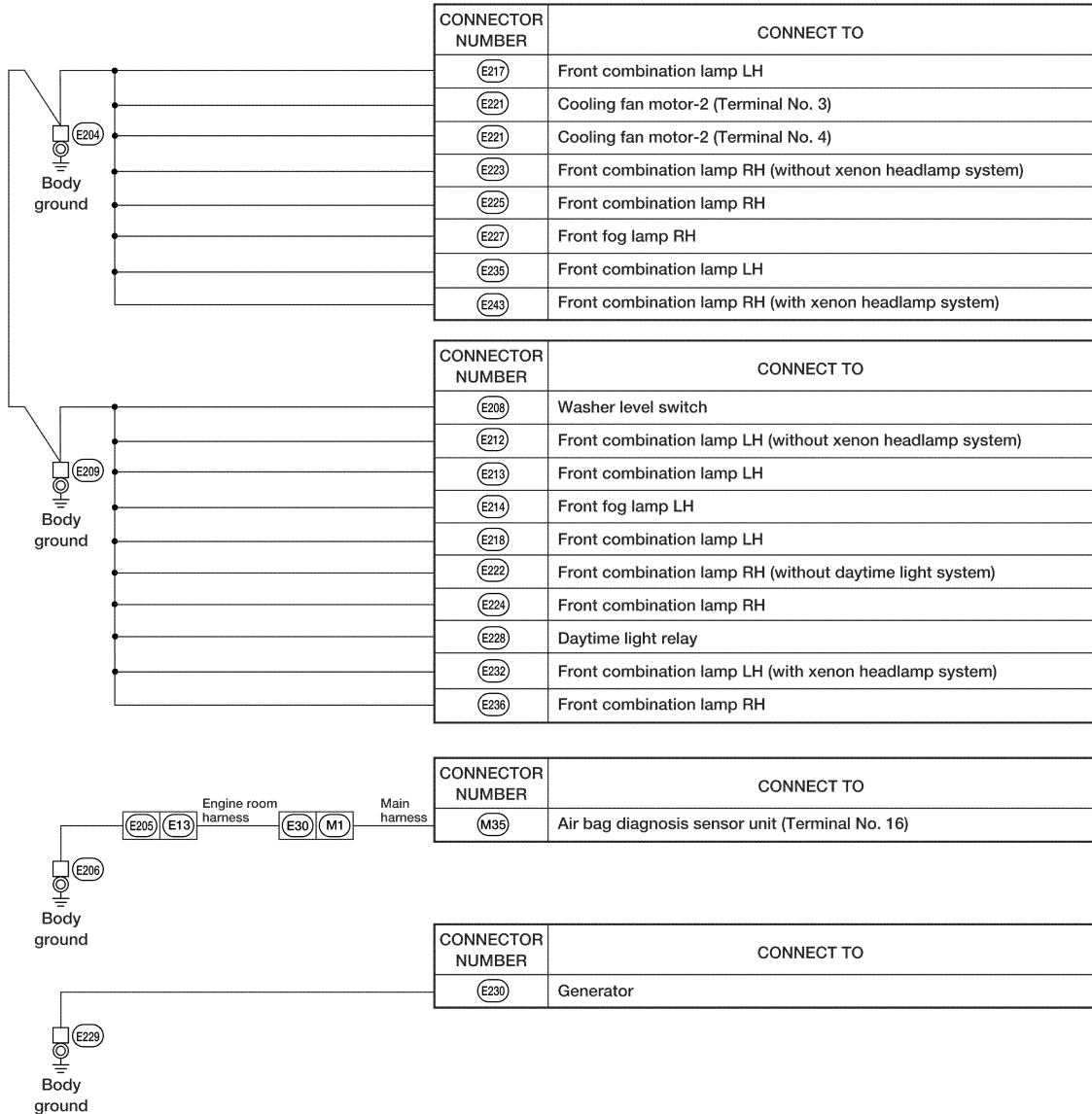
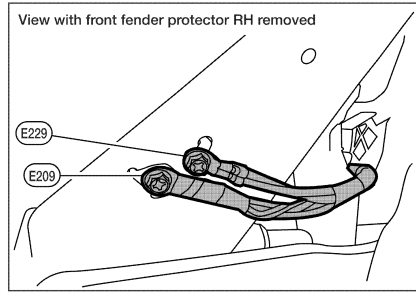
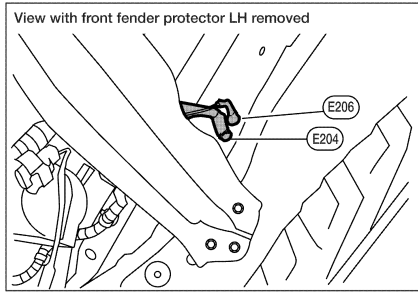
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# GROUND

[SEDAN]

## < COMPONENT DIAGNOSIS > FRONT END MODULE HARNESS

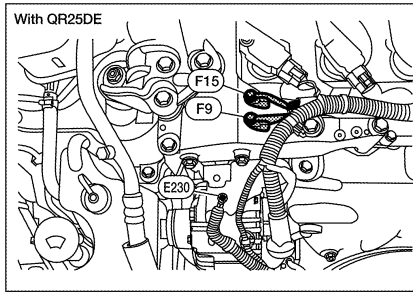
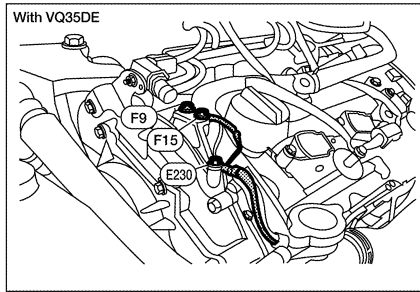


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# GROUND

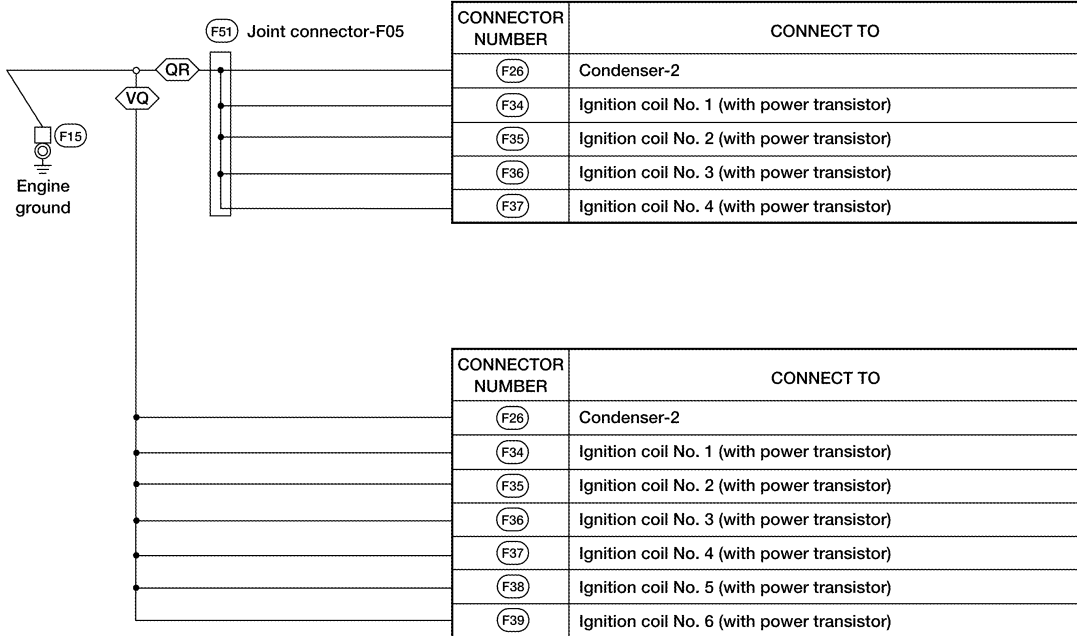
[SEDAN]

## < COMPONENT DIAGNOSIS > ENGINE CONTROL HARNESS



QR : With QR25DE

VQ : With VQ35DE



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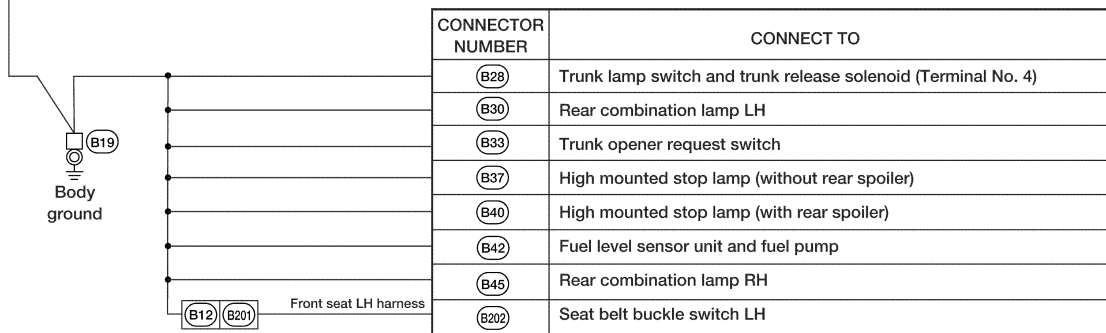
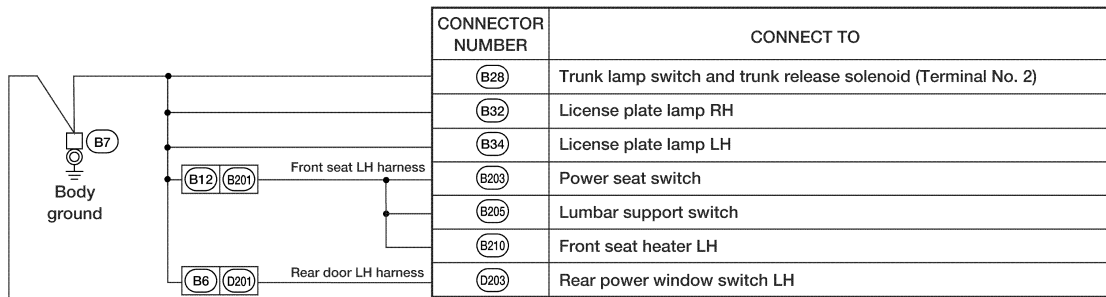
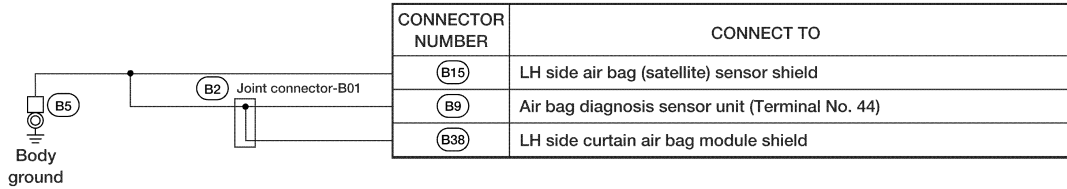
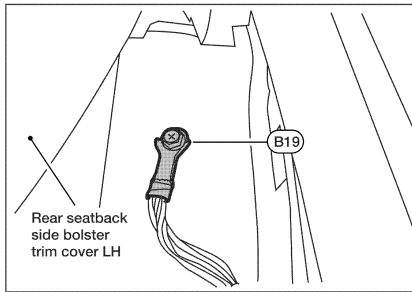
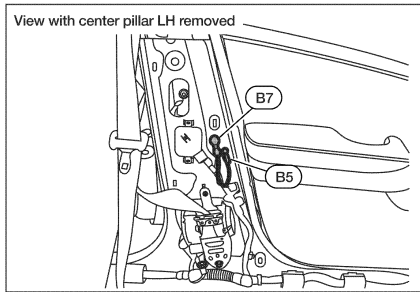
ABMIA0498GB

# GROUND

[SEDAN]

## < COMPONENT DIAGNOSIS >

### BODY HARNESS



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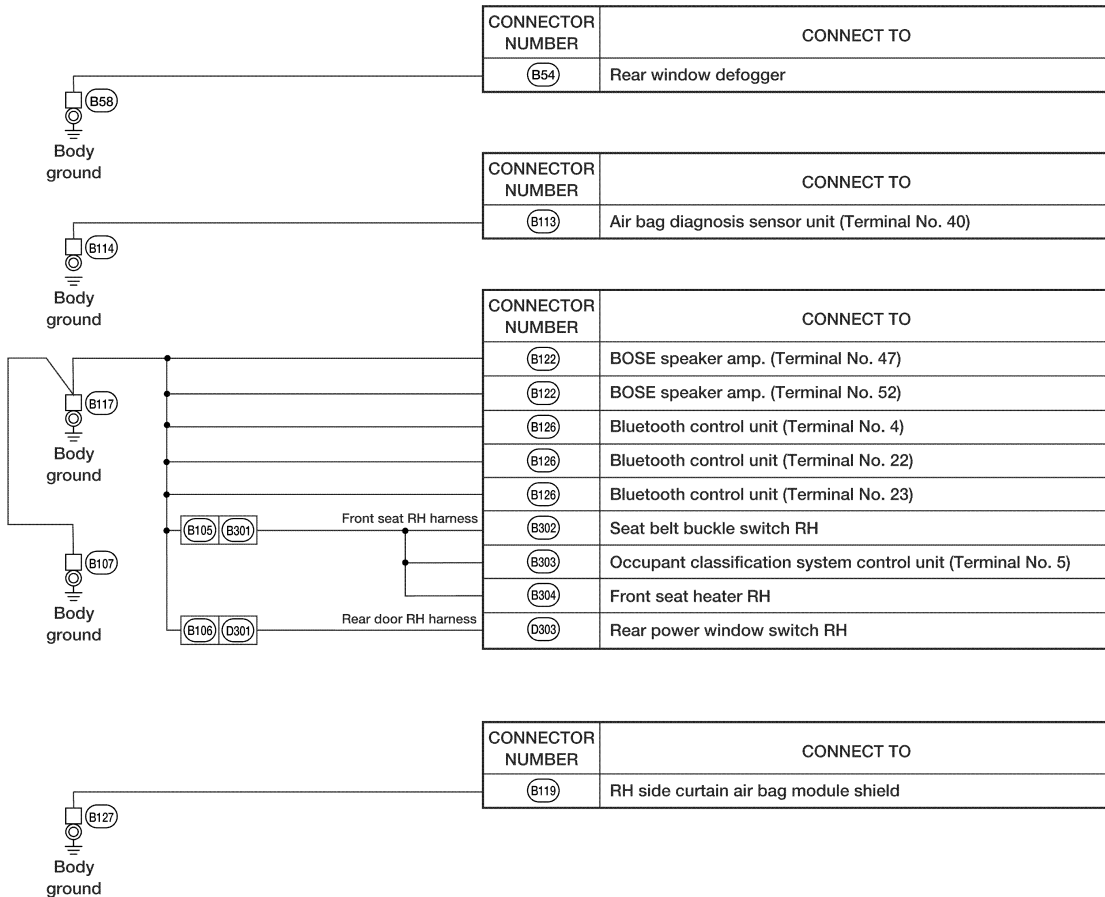
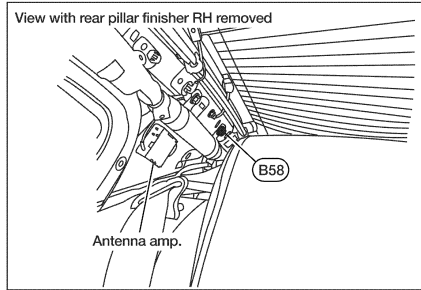
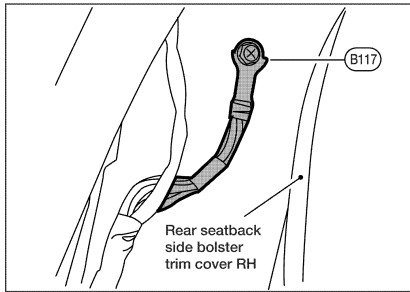
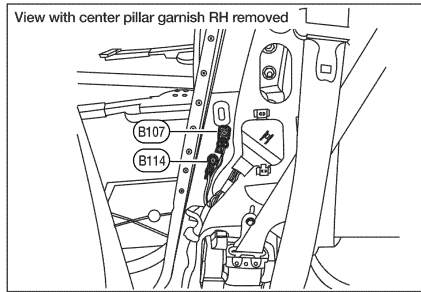


# GROUND

[SEDAN]

## < COMPONENT DIAGNOSIS >

### BODY NO. 2 HARNESS



ABMIA1773GB

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## HARNESS

### Harness Layout

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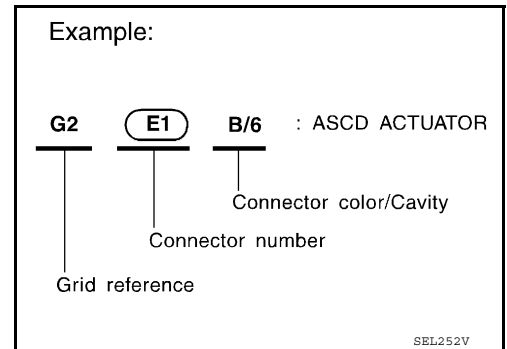
#### HOW TO READ HARNESS LAYOUT

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

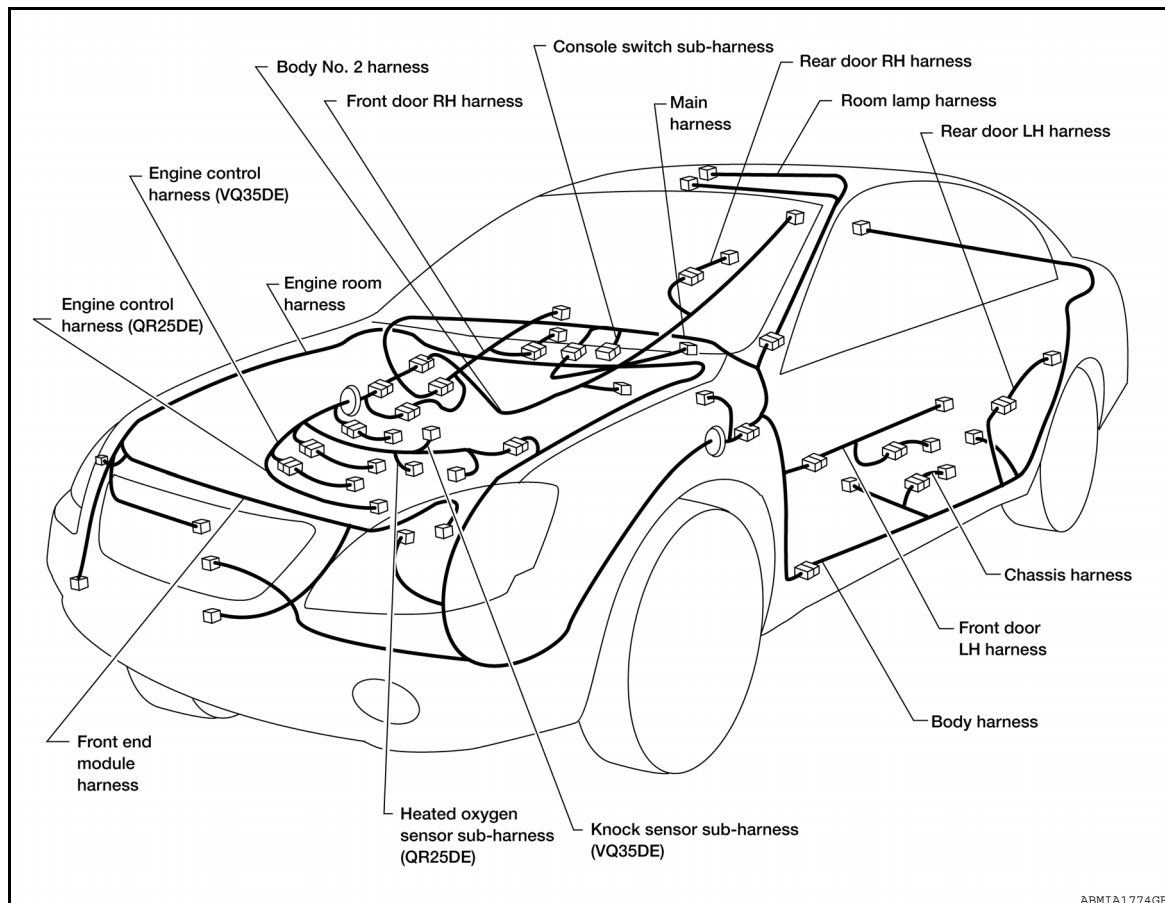
- Main Harness and Console Switch Sub-harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Front End Module Harness
- Engine Control Harness (VQ35DE) and Knock Sensor Sub-harness
- Engine Control Harness (QR25DE) and Heated Oxygen Sensor Sub-harness
- Body Harness and Chassis 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



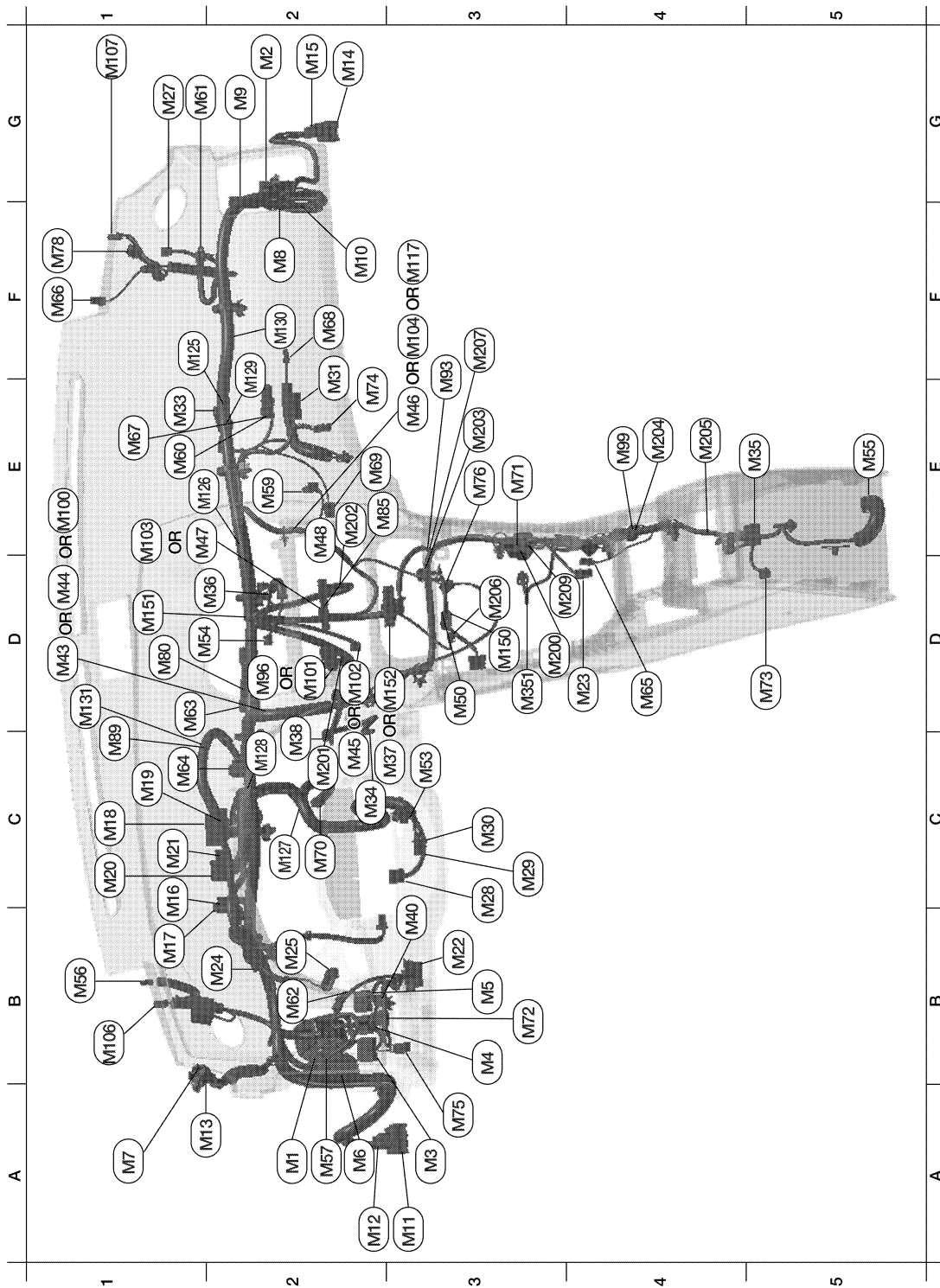
ABMIA1774GB

# HARNESS

[SEDAN]

< COMPONENT DIAGNOSIS >

## MAIN HARNESS



ABMIA1775GB

A2	M1	SMJ	: To E30	B2	M62	W/2	: Tire pressure warning check connector
G2	M2	W/32	: To B101	D1	M63	L/12	: Joint connector-M02
A3	M3	W/8	: Fuse block (J/B)	C1	M64	GR/6	: Joint connector-M01
A3	M4	W/10	: Fuse block (J/B)	D4	M65	BR/2	: CVT shift selector

# HARNESS

## < COMPONENT DIAGNOSIS >

[SEDAN]

B3	M5	W/12	: Fuse block (J/B)	F1	M66	W/3	: Optical sensor
A2	M6	SMJ	: To B1	E1	M67	O/2	: Front passenger air bag module
A1	M7	W/16	: To R1	F2	M68	W/2	: Glove box lamp
F2	M8	W/24	: To B102	E2	M69	W/4	: Intake sensor
G2	M9	BR/16	: To B103	C2	M70	W/4	: Tire pressure receiver
F2	M10	BR/12	: To B104	E3	M71	W/12	: To M200
A3	M11	W/16	: To D1	G2	M72	GR/6	: VDC OFF switch
A2	M12	W/16	: To D2	D5	M73	B/1	: Parking brake switch (with M/T)
A2	M13	W/4	: To R2	E2	M74	W/2	: Trunk lid opener cancel switch
G2	M14	W/10	: To D101	A3	M75	B/2	: Trunk lid opener switch
G2	M15	W/12	: To D102	E3	M76	B/3	: Front power socket
B1	M16	B/3	: BCM (body control module)	F1	M78	Y/4	: Front passenger air bag module (service replacement)
B1	M17	W/16	: BCM (body control module)	D1	M80	—	: Diode-3
C1	M18	G/40	: BCM (body control module)	E2	M85	W/20	: Audio unit (with base audio system)
C1	M19	B/40	: BCM (body control module)	C1	M89	W/4	: To M131
C1	M20	W/12	: BCM (body control module)	F3	M93	W/12	: To M207
C1	M21	GR/40	: BCM (body control module)	D2	M96	G/4	: Audio unit (BOSE audio system without NAVI)
B3	M22	W/16	: Data link connector	E4	M99	GR/6	: To M204
D4	M23	W/10	: CVT shift selector	E1	M100	W/20	: AV control unit (BOSE audio system with NAVI)
B2	M24	W/40	: Combination meter	D2	M101	G/4	: AV control unit (BOSE audio system with NAVI)
B2	M25	B/10	: Meter mode switch	D2	M102	W/32	: AV control unit (BOSE audio system with NAVI)
G1	M27	B/4	: Remote keyless entry receiver	E1	M103	W/40	: AV control unit (BOSE audio system with NAVI)
C3	M28	W/16	: Combination switch	F2	M104	W/28	: AV control unit (BOSE audio system with NAVI)
C3	M29	Y/6	: Spiral cable	B1	M106	BR/2	: Tweeter LH
C3	M30	GR/8	: Spiral cable	G1	M107	BR/2	: Tweeter RH
E2	M31	W/6	: Blower motor	F2	M117	W/12	: Audio unit (with base audio system)
E1	M33	W/3	: To M125	F1	M125	W/3	: To M33
C2	M34	W/2	: In-vehicle sensor	E1	M126	W/3	: Intake door motor
E5	M35	Y/28	: Air bag diagnosis sensor unit	C2	M127	W/3	: Mode door motor
D2	M36	W/3	: Front passenger air bag off indicator	C2	M128	W/3	: Air mix door motor LH (with auto AC)
D3	M37	W/16	: Front air control (without auto A/C)	F2	M129	W/3	: Air mix door motor RH (with auto AC)
C2	M38	BR/8	: Push-button ignition switch	F2	M130	W/3	: Air mix door motor (with manual AC)
B3	M40	W/12	: Key slot	D1	M131	W/4	: To M89
D1	M43	W/20	: Audio unit (with base audio system)	D3	M150	W/2	: To M50
D2	M45	W/32	: Audio unit (BOSE audio system without NAVI)	D1	M151	BR/2	: Center speaker
D1	M44	W/20	: Audio unit (BOSE audio system without NAVI)	D3	M152	W/40	: Front air control (with auto A/C)
E2	M46	W/12	: Audio unit (BOSE audio system without NAVI)	Console switch sub-harness			
E2	M47	W/12	: Audio unit (BOSE audio system without NAVI)	D3	M200	W/12	: To M71

# HARNESS

## < COMPONENT DIAGNOSIS >

[SEDAN]

D3	M49	GR/2	: Instrument panel antenna	C2	M201	W/6	: Front heated seat switch LH
D3	M50	W/2	: To M150	E2	M202	BR/6	: Front heated seat switch RH
C3	M53	W/8	: Steering angle sensor	E3	M203	GR/2	: Front console antenna
D2	M54	W/4	: Hazard switch	E4	M204	GR/16	: To M99
E5	M55	B/4	: Yaw rate/side/decel G sensor	E4	M205	G/4	: USB interface
D2	M56	B/2	: Sunload sensor	D3	M206	W/8	: Aux jack
A2	M57	—	: Body ground	F3	M207	W/12	: To M93
E2	M59	W/12	: Power steering control unit	D4	M209	B/3	: Front console power socket
E1	M60	Y/2	: Front passenger air bag module				
G1	M61	—	: Body ground				

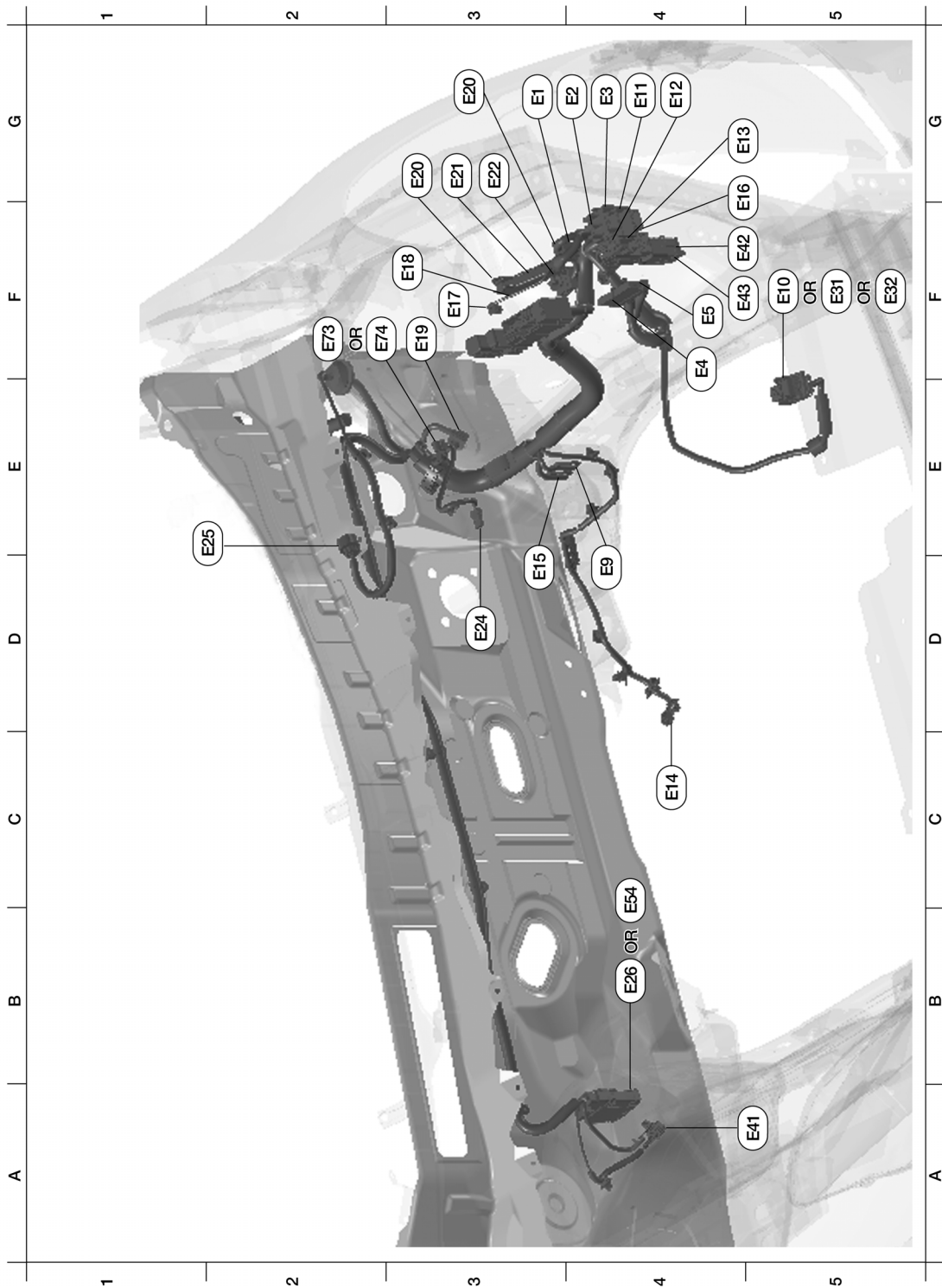
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# HARNESS

[SEDAN]

< COMPONENT DIAGNOSIS >

## ENGINE ROOM HARNESS



ABMIA1776GB

G4	E1	W/6	: Joint connector-E01	F3	E19	GR/2	: Front wheel sensor LH
G4	E2	W/8	: To E202	G3	E20	W/6	: Joint connector-E02
G4	E3	W/16	: To F1	G3	E21	W/4	: Joint connector-E03
F4	E4	BR/2	: Fusible link box (battery)	G3	E22	W/4	: Joint connector-E04
F4	E5	GR/2	: Fusible link box (battery)	D3	E24	GR/2	: Brake fluid level switch

# HARNESS

## < COMPONENT DIAGNOSIS >

[SEDAN]

D4	E9	—	: Body ground	E2	E25	GR/5	: Front wiper motor
F5	E10	B/32	: ECM (QR25DE except for California)	B4	E26	B/26	: ABS actuator and electric unit (control unit) (with ABS)
G4	E11	W/10	: To F2	F5	E31	B/32	: ECM (QR25DE for California)
G4	E12	W/6	: To E203	F5	E32	B/32	: ECM (with VQ35DE)
G5	E13	B/3	: To E205	A5	E41	GR/2	: Front wheel sensor RH
C4	E14	B/2	: Power steering solenoid valve	F5	E42	BR/6	: Cooling fan relay-2
D4	E15	—	: Body ground	F5	E43	BR/6	: Cooling fan relay-3
G5	E16	B/2	: IPDM E/R (intelligent power distribution module engine room)	B4	E54	B/26	: ABS actuator and electric unit (control unit) (with VDC)
F3	E17	W/8	: IPDM E/R (intelligent power distribution module engine room)	F2	E73	BR/3	: Outside warning buzzer
F3	E18	W/36	: IPDM E/R (intelligent power distribution module engine room)	F2	E74	BR/3	: Intelligent key warning buzzer

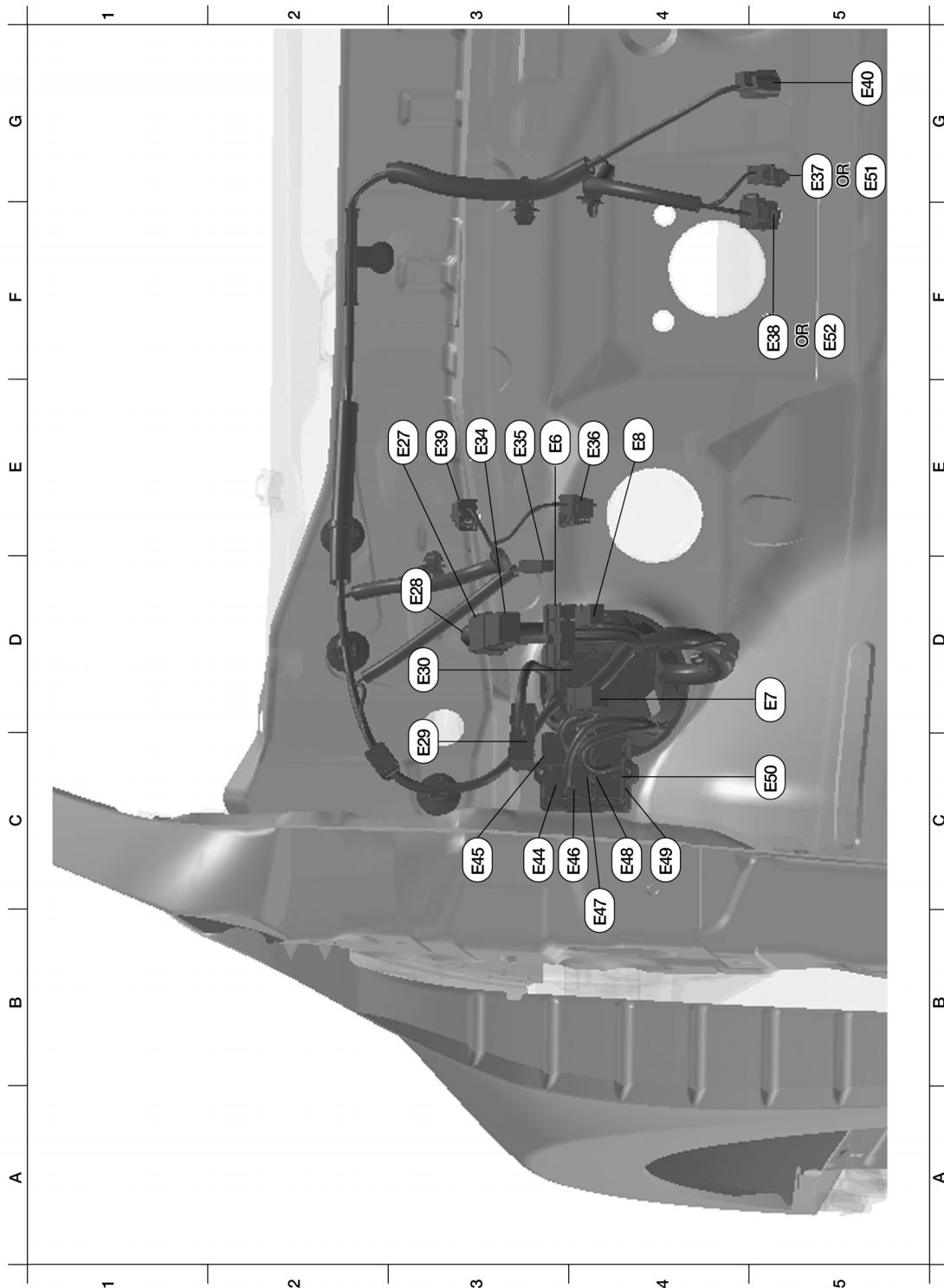
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# HARNESS

[SEDAN]

< COMPONENT DIAGNOSIS >

## ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



ABMIA1777GB

E3	E6	W/16	: Fuse block (J/B)	E3	E39	BR/2	: ASCD clutch switch
D5	E7	W/1	: Fuse block (J/B)	G5	E40	B/6	: Accelerator pedal position (APP) sensor
E4	E8	B/2	: Fuse block (J/B)	C3	E44	BR/12	: Junction block
E3	E27	W/4	: Joint connector-E06	C3	E45	W/12	: Junction block
D3	E28	W/4	: Joint connector-E05	C4	E46	W/16	: Junction block



# HARNESS

## < COMPONENT DIAGNOSIS >

[SEDAN]

C3	E29	W/16	: To B10	B4	E47	W/6	: Junction block
D3	E30	SMJ	: To M1	C4	E48	W/4	: Junction block
E3	E34	L/4	: Back-up lamp relay	C4	E49	BR/4	: Junction block
E3	E35	B/1	: Parking brake switch (with CVT)	C5	E50	W/2	: Junction block
E4	E36	BR/2	: Clutch interlock switch	G5	E51	BR/2	: ASCD brake switch (with M/T)
G5	E37	BR/2	: ASCD brake switch (with CVT)	F5	E52	B/2	: Stop lamp switch (with M/T)
F5	E38	W/4	: Stop lamp switch (with CVT)				

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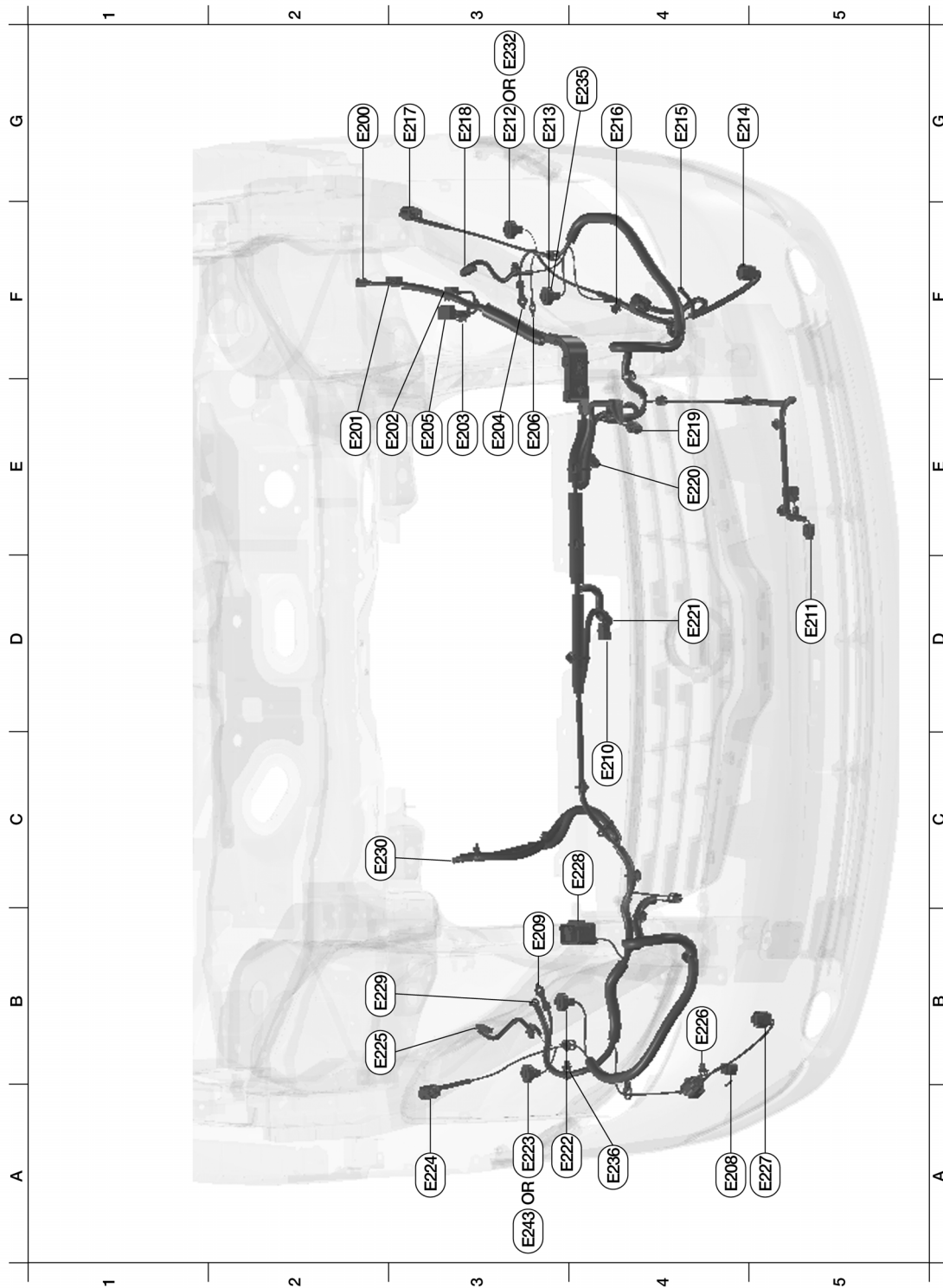
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# HARNESS

[SEDAN]

< COMPONENT DIAGNOSIS >

## FRONT END MODULE HARNESS



ABMIA1778GB

G3	E200	W/8	: IPDM E/R (intelligent power distribution module engine room)	G3	E218	B/2	: Front combination lamp LH
E2	E201	W/16	: IPDM E/R (intelligent power distribution module engine room)	E4	E219	B/3	: Refrigerant pressure sensor
E3	E202	W/8	: To E2	E4	E220	GR/4	: Cooling fan motor-1
E3	E203	W/6	: To E12	D4	E221	GR/4	: Cooling fan motor-2

# HARNESS

< COMPONENT DIAGNOSIS >

[SEDAN]

E3	E204	—	: Body ground	A4	E222	B/2	: Front combination lamp RH (without daytime light system)
E3	E205	B/3	: To E13	A3	E223	B/2	: Front combination lamp RH (without xenon headlamp system)
E3	E206	—	: Body ground	A3	E224	GR/3	: Front combination lamp RH
A4	E208	W/2	: Washer level switch	B3	E225	B/2	: Front combination lamp RH
B3	E209	—	: Body ground	B4	E226	B/2	: Front washer motor
D4	E210	Y/2	: Crash zone sensor	A5	E227	B/2	: Front fog lamp RH
D5	E211	B/2	: Ambient sensor	C4	E228	B/5	: Daytime light relay
B2	E212	B/2	: Front combination lamp LH (without xenon headlamp system)	B3	E229	—	: Body ground
G4	E213	B/2	: Front combination lamp LH	C3	E230	—	: Generator
G4	E214	B/2	: Front fog lamp LH	G3	E232	GR/2	: Front combination lamp LH (with Xenon headlamp system)
G4	E215	B/1	: Horn (low)	G4	E235	B/2	: Front combination lamp LH
G4	E216	B/1	: Horn (high)	A4	E236	B/2	: Front combination lamp RH
G3	E217	GR/3	: Front combination lamp LH	G3	E243	GR/2	: Front combination lamp RH (with Xenon headlamp system)

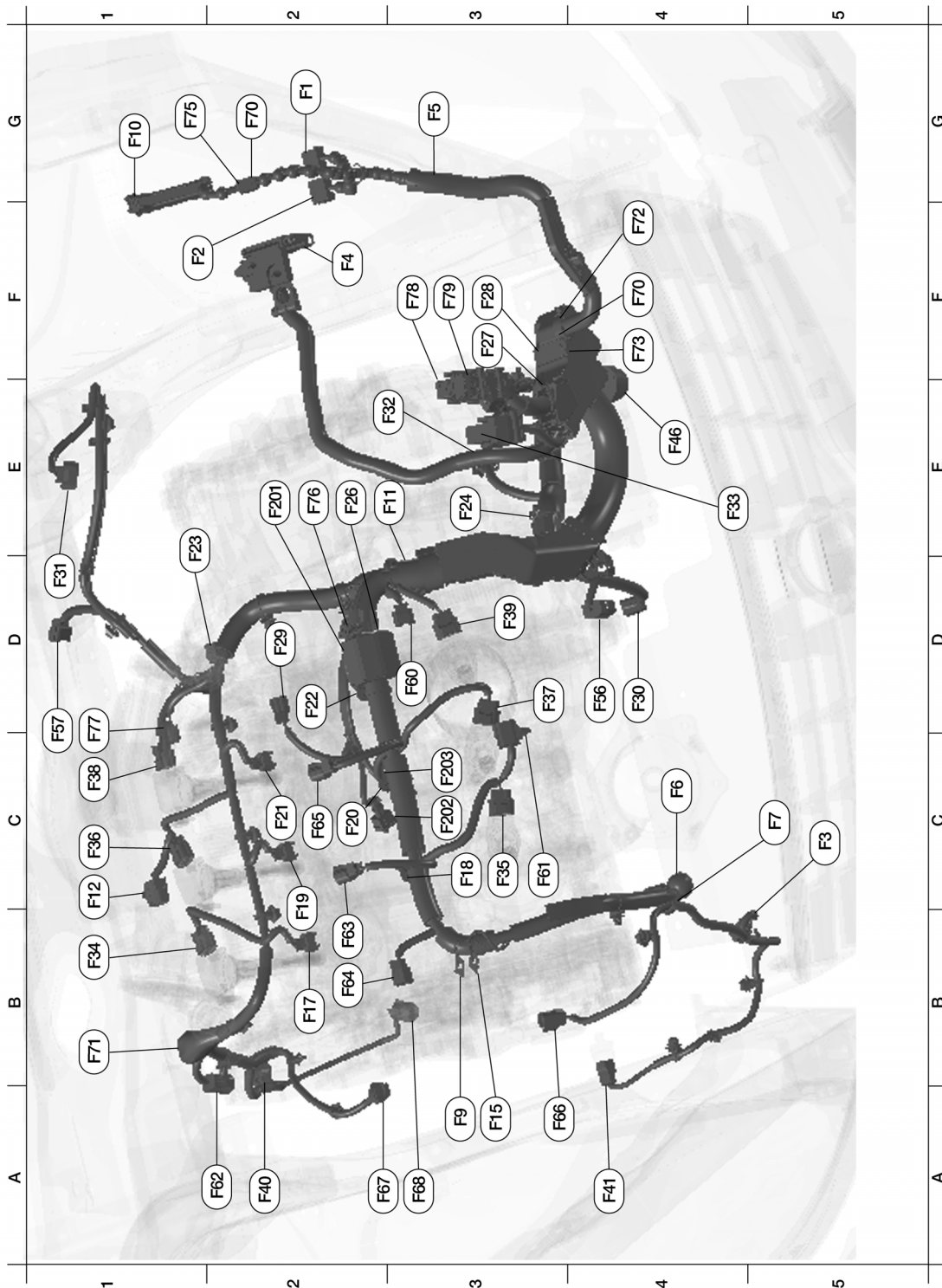
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# HARNESS

[SEDAN]

< COMPONENT DIAGNOSIS >

## ENGINE CONTROL HARNESS (VQ35DE)



ABMIA1779GB

G2	F1	W/16	: To E3	D4	F37	GR/3	: Ignition coil No. 4 (with power transistor)
F2	F2	W/10	: To E11	C1	F38	GR/3	: Ignition coil No. 5 (with power transistor)
C5	F3	B/2	: A/C Compressor	D3	F39	GR/3	: Ignition coil No. 6 (with power transistor)
F2	F4	—	: Fusible link box (battery)	A2	F40	B/3	: Power steering pressure sensor
G3	F5	B/3	: Battery current sensor	A4	F41	GR/1	: Oil pressure switch

# HARNESSES

[SEDAN]

## < COMPONENT DIAGNOSIS >

C4	F6	—	: Generator	E4	F46	B/22	: CVT unit	A	
C5	F7	B/3	: Generator	D4	F56	B/4	: Heated oxygen sensor 2 (bank 2)	B	
E4	F8	W/3	: Primary speed sensor	D1	F57	B/6	: Electric throttle control actuator	C	
A3	F9	—	: Engine ground	D3	F60	B/3	: Camshaft position sensor (PHASE) (bank2)	D	
G1	F10	W/36	: IPDM E/R (intelligent power distribution module engine room)	C3	F61	GR/4	: Air fuel ratio (A/F) sensor 1 (bank 2)	E	
E3	F11	GR/2	: Engine coolant temperature sensor	A2	F62	B/4	: Heated oxygen sensor 2 (bank 1)	F	
C1	F12	GR/4	: Air fuel ratio (A/F) sensor 1 (bank 1)	B2	F63	B/2	: VIAS control solenoid valve 1	G	
A3	F15	—	: Engine ground	B3	F64	BR/2	: Electric controlled engine mount control solenoid valve	H	
B2	F17	GR/2	: Fuel injector No. 1	C2	F65	B/2	: VIAS control solenoid valve 2	I	
C3	F18	GR/2	: Fuel injector No. 2	A3	F66	G/2	: Intake valve timing control solenoid valve (bank 2)	J	
C2	F19	GR/2	: Fuel injector No. 3	A2	F67	G/2	: Intake valve timing control solenoid valve (bank 1)	K	
C2	F20	GR/2	: Fuel injector No. 4	A3	F68	GR/2	: Engine oil temperature sensor	L	
C2	F21	GR/2	: Fuel injector No. 5	G2	F70	B/10	: Joint connector-F01		
D2	F22	GR/2	: Fuel injector No. 6	B1	F71	GR/6	: Joint connector-F03		
E2	F23	B/3	: Secondary speed sensor	F4	F72	B/10	: Joint connector-F04		
E3	F24	B/2	: Back-up lamp switch	F4	F73	B/10	: Joint connector-F05		
E2	F26	W/2	: Condenser-2	D3	F74	W/4	: Joint connector-F08		
F3	F27	—	: Starter motor	G2	F75	W/4	: Joint connector-F07		
F3	F28	—	: Starter motor	E2	F76	L/4	: To F201		
D2	F29	L/2	: EVAP canister purge volume control solenoid valve	D1	F77	B/3	: Camshaft position sensor (PHASE) (bank1)		
D4	F30	B/3	: Crankshaft position sensor (POS)	F3	F78	BR/48	: ECM		
D1	F31	B/6	: Mass air flow sensor	F3	F79	GR/32	: ECM		
E3	F32	B/2	: Park/neutral position (PNP) switch	Knock sensor sub-harness					
E4	F33	B/48	: TCM (transmission control module)	E2	F201	L/4	: To F76		
B1	F34	GR/3	: Ignition coil No. 1 (with power transistor)	C3	F202	GR/2	: Knock sensor (bank 1)		
C3	F35	GR/3	: Ignition coil No. 2 (with power transistor)	C3	F203	GR/2	: Knock sensor (bank 2)		
C1	F36	GR/3	: Ignition coil No. 3 (with power transistor)						

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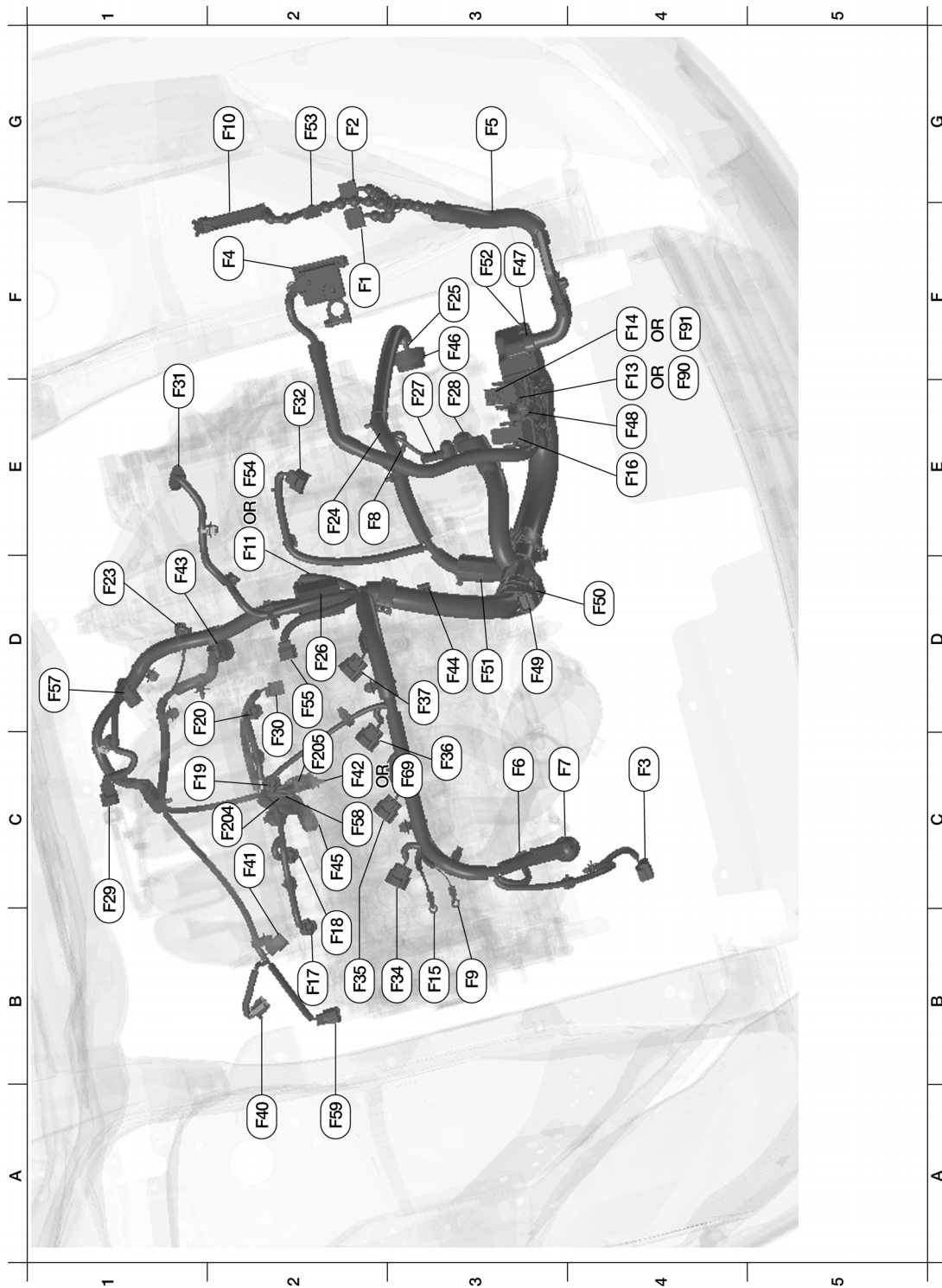
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# HARNESS

< COMPONENT DIAGNOSIS >

[SEDAN]

## ENGINE CONTROL HARNESS (QR25DE)



ABMIA1780GB

F2	F1	W/16	: To E3	B3	F34	GR/3	: Ignition coil No. 1 (with power transistor)
G2	F2	W/10	: To E11	B2	F35	GR/3	: Ignition coil No. 2 (with power transistor)
C4	F3	B/12	: A/C Compressor	C3	F36	GR/3	: Ignition coil No. 3 (with power transistor)
F2	F4	—	: Fusible link box (battery)	D3	F37	GR/3	: Ignition coil No. 4 (with power transistor)
G3	F5	B/3	: Battery current sensor	A2	F40	B/3	: Power steering pressure sensor

# HARNESSES

## < COMPONENT DIAGNOSIS >

**[SEDAN]**

C3	F6	—	: Generator	C2	F41	GR/1	: Oil pressure switch
C3	F7	B/3	: Generator	C2	F42	B/4	: Heated oxygen sensor 2 (except for California)
E2	F8	W/3	: Primary speed sensor	D1	F43	GR/5	: Tumble control valve actuator
B3	F9	—	: Engine ground	D3	F44	GR/4	: Air fuel ratio (A/F) sensor 1
G2	F10	W/36	: IPDM E/R (intelligent power distribution module engine room)	C2	F45	GR/2	: Knock sensor
E2	F11	GR/2	: Engine coolant temperature sensor (for California)	F3	F46	B/22	: CVT unit
E4	F13	BR/48	: ECM (except for California)	F3	F47	B/6	: Joint connector-F01
F4	F14	GR/32	: ECM (except for California)	E4	F48	B/6	: Joint connector-F02
B3	F15	—	: Engine ground	D3	F49	B/10	: Joint connector-F03
E4	F16	B/48	: TCM (transmission control module)	D4	F50	B/10	: Joint connector-F04
B2	F17	GR/2	: Fuel injector No. 1	D3	F51	B/6	: Joint connector-F05
B2	F18	GR/2	: Fuel injector No. 2	F3	F52	B/10	: Joint connector-F06
C1	F19	GR/2	: Fuel injector No. 3	G2	F53	W/4	: Joint connector-F07
D1	F20	GR/2	: Fuel injector No. 4	E2	F54	GR/2	: Engine coolant temperature sensor (except for California)
D1	F23	B/3	: Secondary speed sensor	D2	F55	B/3	: Camshaft position sensor (PHASE)
E3	F24	B/2	: Back-up lamp switch	D1	F57	B/6	: Electric throttle control actuator
F3	F25	B/10	: Transmission range switch	C2	F58	B/4	: To F204
D2	F26	W/2	: Condenser-2	A2	F59	G/2	: Intake valve timing control solenoid valve
E3	F27	—	: Starter motor	C2	F69	B/4	: Heated oxygen sensor 2 (for California)
E3	F28	—	: Starter motor	E4	F90	BR/48	: ECM (for California)
C1	F29	L/2	: EVAP canister purge volume control solenoid valve	F4	F91	GR/32	: ECM (for California)
C2	F30	B/3	: Crankshaft position sensor (POS)	Heated oxygen sensor sub-harness			
E1	F31	B/6	: Mass air flow sensor	C2	F204	B/4	: To F58
E2	F32	B/2	: Park/neutral position (PNP) switch	C2	F205	GR/4	: Heated oxygen sensor 3

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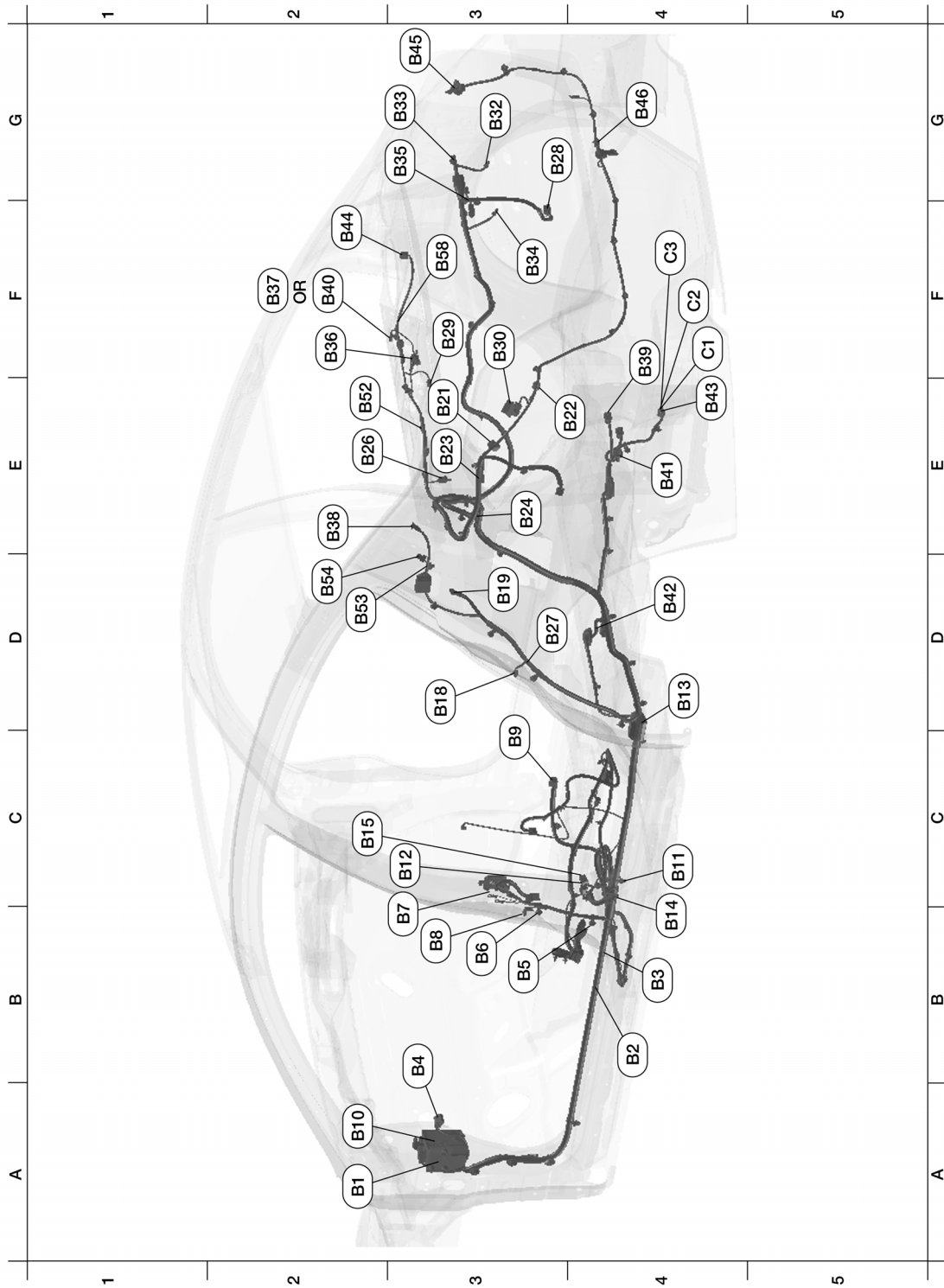
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# HARNESS

[SEDAN]

< COMPONENT DIAGNOSIS >

## BODY HARNESS



ABMIA1781GB

A2	B1	SMJ	: To M6	F3	B30	W/6	: Rear combination lamp LH
B4	B2	W/4	: Joint connector-B01	F3	B32	BR/2	: License plate lamp RH
B4	B3	W/4	: Joint connector-B02	G3	B33	BR/2	: Trunk opener request switch
B3	B4	BR/12	: Fuse block (J/B)	G3	B34	BR/2	: License plate lamp RH
B3	B5	—	: Body ground	G3	B35	W/4	: Rear view camera



# HARNESS

< COMPONENT DIAGNOSIS >

[SEDAN]

B3	B6	W/8	: To D201	F2	B36	W/2	: Trunk room lamp	
B3	B7	—	: Body ground	F2	B37	W/2	: High mounted stop lamp (without rear spoiler)	
B3	B8	W/3	: Front door switch LH	E2	B38	Y/2	: LH side front curtain air bag module	
C3	B9	Y/12	: Air bag diagnosis sensor unit	F4	B39	B/2	: EVAP canister vent control valve	
A2	B10	W/16	: To E29	F2	B40	BR/2	: High mounted stop lamp (with rear spoiler)	
C4	B11	Y/2	: Front LH side air bag module	E4	B41	GR/3	: EVAP control system pressure sensor	
C3	B12	W/8	: To B201	D4	B42	GR/5	: Fuel level sensor unit and fuel pump	
D4	B13	W/6	: Joint connector-B03	E4	B43	GR/4	: To C1	
B4	B14	Y/2	: Front LH seat belt pre-tensioner	F2	B44	W/2	: Rear speaker RH	
C2	B15	Y/2	: LH side air bag (satellite) sensor	G3	B45	W/6	: Rear combination lamp RH	
D3	B18	W/3	: Rear door switch LH	G4	B46	GR/2	: Rear bumper antenna	
D3	B19	—	: Body ground	E2	B52	W/1	: Condenser	
E3	B21	L/12	: Joint connector-B06	D2	B53	B/1	: Rear window defogger	
E4	B22	GR/6	: Joint connector-B07	D2	B54	B/1	: Rear window defogger	
E3	B23	W/4	: Joint connector-B08	F3	B58	—	: Body ground	
E3	B24	W/4	: Joint connector-B09	Chassis harness				
E2	B26	W/2	: Rear speaker LH	F4	C1	GR/4	: To B43	
C3	B27	W/2	: To B400	F4	C2	B/2	: Rear wheel sensor LH	
G4	B28	W/4	: Trunk lamp switch and trunk release solenoid	F4	C3	GR/2	: Rear wheel sensor RH	
F3	B29	GR/2	: Rear parcel shelf antenna					

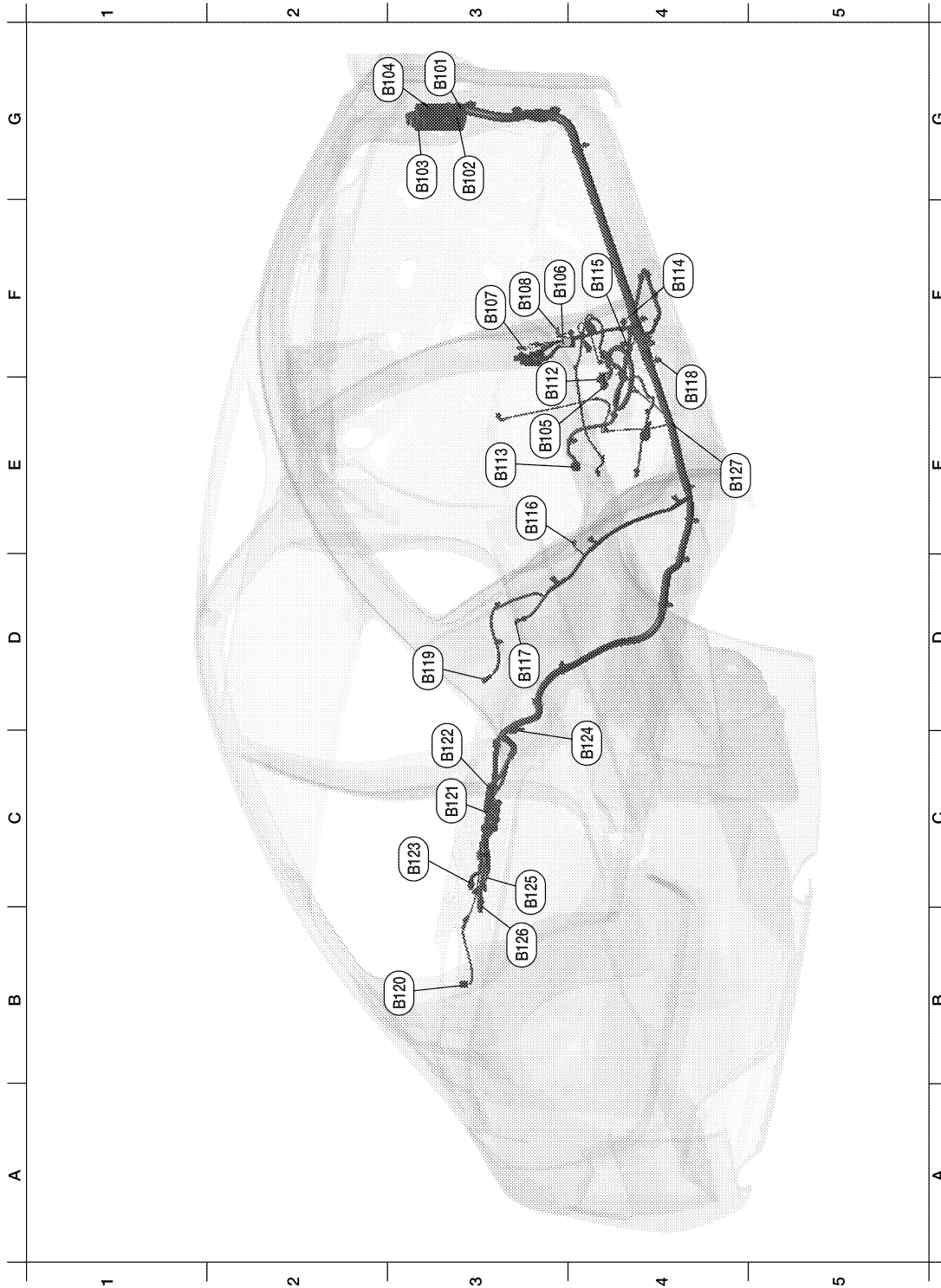
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# HARNESS

[SEDAN]

< COMPONENT DIAGNOSIS >

## BODY NO. 2 HARNESS



ABMIA0551GB

G3	B101	W/32	: To M2	E3	B116	W/3	: Rear door switch RH
G3	B102	W/24	: To M8	D3	B117	—	: Body ground
G3	B103	BR/16	: To M9	E4	B118	Y/2	: RH side air bag (satellite) sensor
G3	B104	BR/12	: To M10	D3	B119	Y/2	: RH side curtain air bag module
E3	B105	W/8	: To B301	B3	B120	W/2	: Rear speaker subwoofer LH

# HARNESS

< COMPONENT DIAGNOSIS >

[SEDAN]

F3	B106	W/8	: To D301	C3	B121	BR/23	: BOSE speaker amp.
F3	B107	—	: Body ground	C3	B122	BR/14	: BOSE speaker amp.
F3	B108	W/3	: Front door switch RH	C3	B123	W/16	: Satellite radio tuner or pre-wiring for satellite radio tuner
E3	B112	Y/2	: Front RH side air bag module	C4	B124	W/2	: Rear subwoofer RH
E3	B113	Y/12	: Air bag diagnosis sensor unit	C3	B125	W/8	: Bluetooth control unit
F4	B114	—	: Body ground	B3	B126	W/32	: Bluetooth control unit
F4	B115	Y/2	: Front RH seat belt pre-tensioner	E4	B127	—	: Body ground

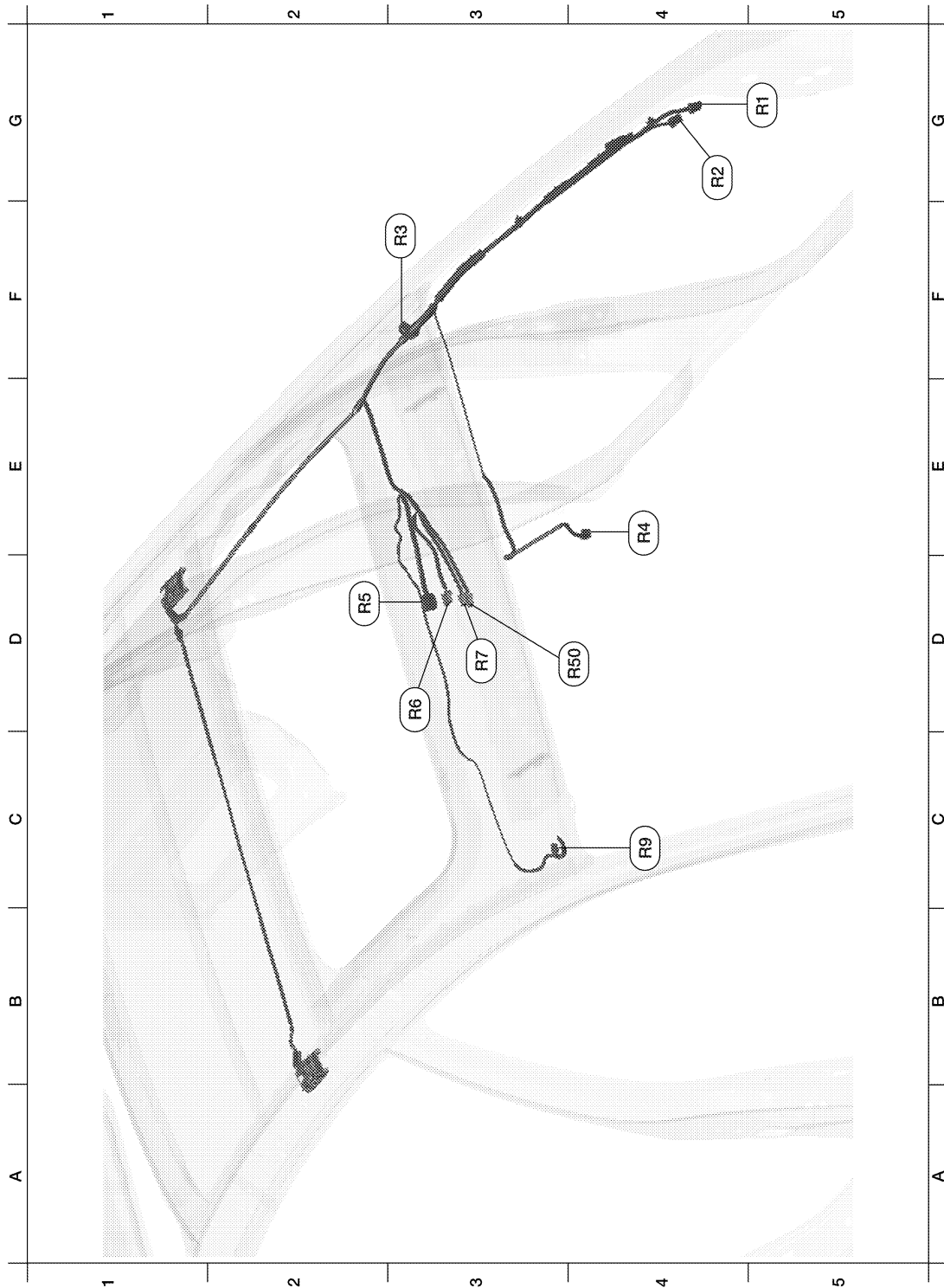
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# HARNESS

< COMPONENT DIAGNOSIS >

[SEDAN]

## ROOM LAMP HARNESS



ABMIA0552GB

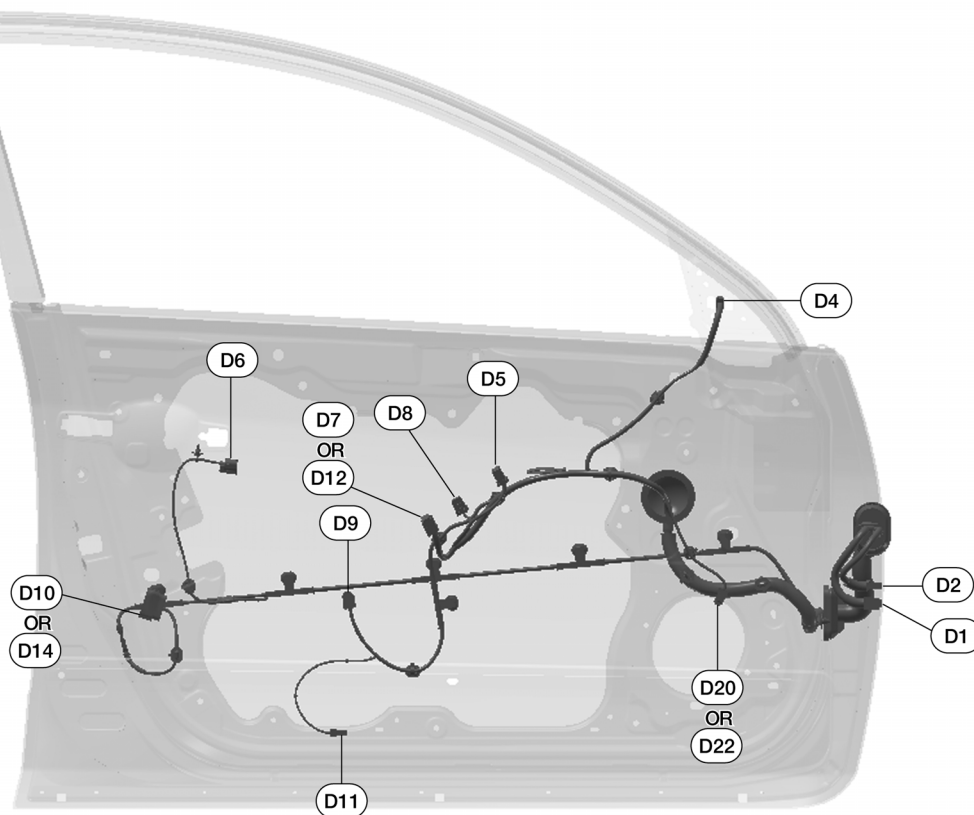
G5	R1	W/16	: To M7	D3	R6	W/3	: Sunroof switch
G4	R2	W/4	: To M13	D3	R7	W/4	: Microphone
F3	R3	W/2	: Vanity mirror lamp LH	C4	R9	W/2	: Vanity mirror lamp RH
E4	R4	B/10	: Auto anti-dazzling inside mirror	D4	R50	GR/6	: Front room/map lamp assembly
D2	R5	W/10	: Sunroof motor assembly				

# HARNESS

[SEDAN]

< COMPONENT DIAGNOSIS >

## FRONT DOOR LH HARNESS



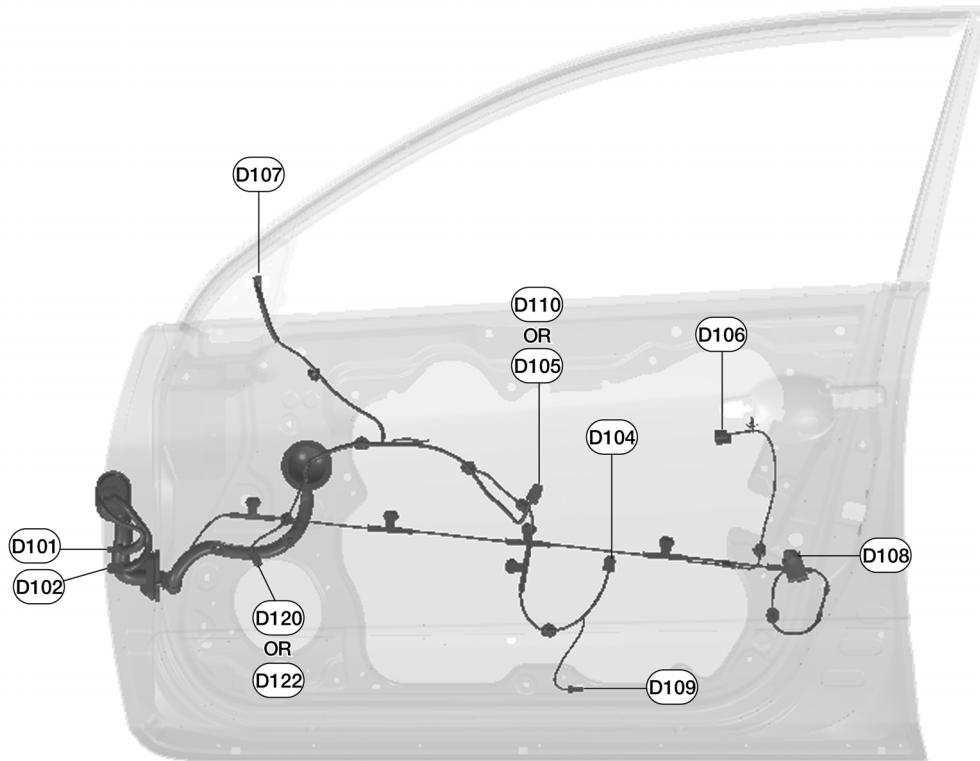
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D1	W/16	: To M11	D9	W/6	: Front power window motor LH
D2	W/16	: To M12	D10	GR/6	: Front door lock assembly LH (with left and right front power window anti-pinch system)
D4	W/8	: Door mirror LH	D11	W/2	: Step lamp LH
D5	W/16	: Door mirror remote control switch	D12	W/16	: Main power window and door lock/unlock switch (with left front only power window anti-pinch system)
D6	B/4	: Front outside handle LH	D14	GR/6	: Front door lock assembly LH (with left front only power window anti-pinch system)
D7	W/16	: Main power window and door lock/unlock switch (with left and right front power window anti-pinch system)	D20	W/2	: Front door speaker LH (with base audio system)
D8	W/3	: Main power window and door lock/unlock switch	D22	BR/2	: Front door speaker LH (with BOSE audio system)

# HARNESS

[SEDAN]

## < COMPONENT DIAGNOSIS > FRONT DOOR RH HARNESS



ABMIA1784GB

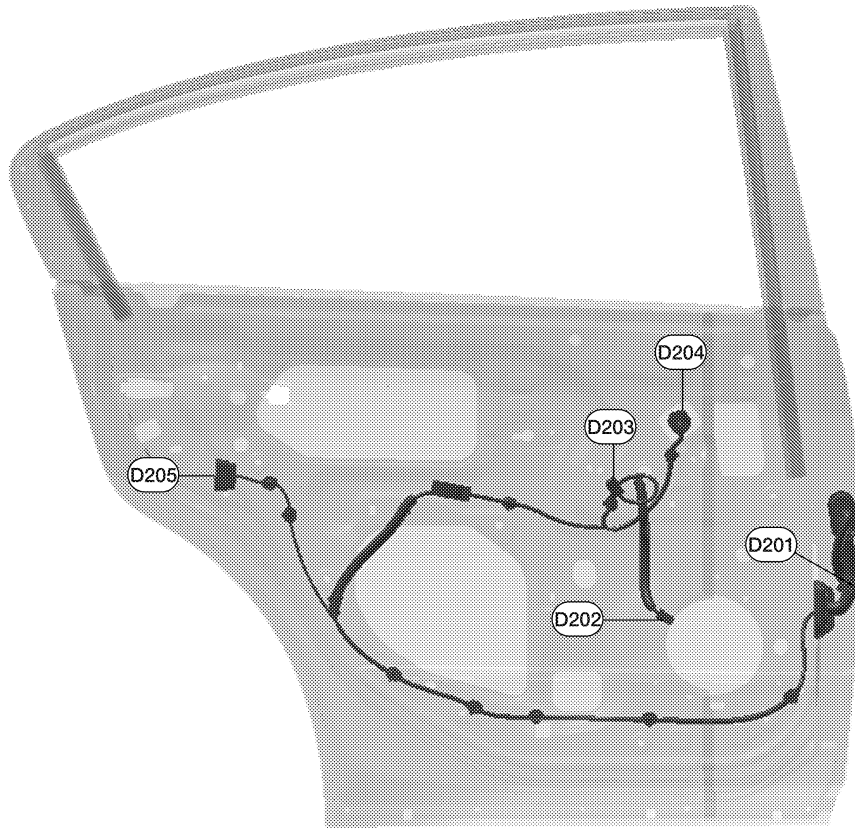
D101	W/10	: To M14	D108	GR/6	: Front door lock actuator RH
D102	W/12	: To M15	D109	W/2	: Step lamp RH
D104	W/6	: Front power window motor RH	D110	W/12	: Power window and door lock/unlock switch RH (with left front only power window anti-pinch system)
D105	W/16	: Power window and door lock/unlock switch RH (with left and right front power window anti-pinch system)	D120	BR/2	: Front door speaker RH (with base audio system)
D106	B/4	: Front outside handle RH	D122	BR/2	: Front door speaker RH (with BOSE audio system)
D107	W/8	: Door mirror RH			

# HARNESS

[SEDAN]

< 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			

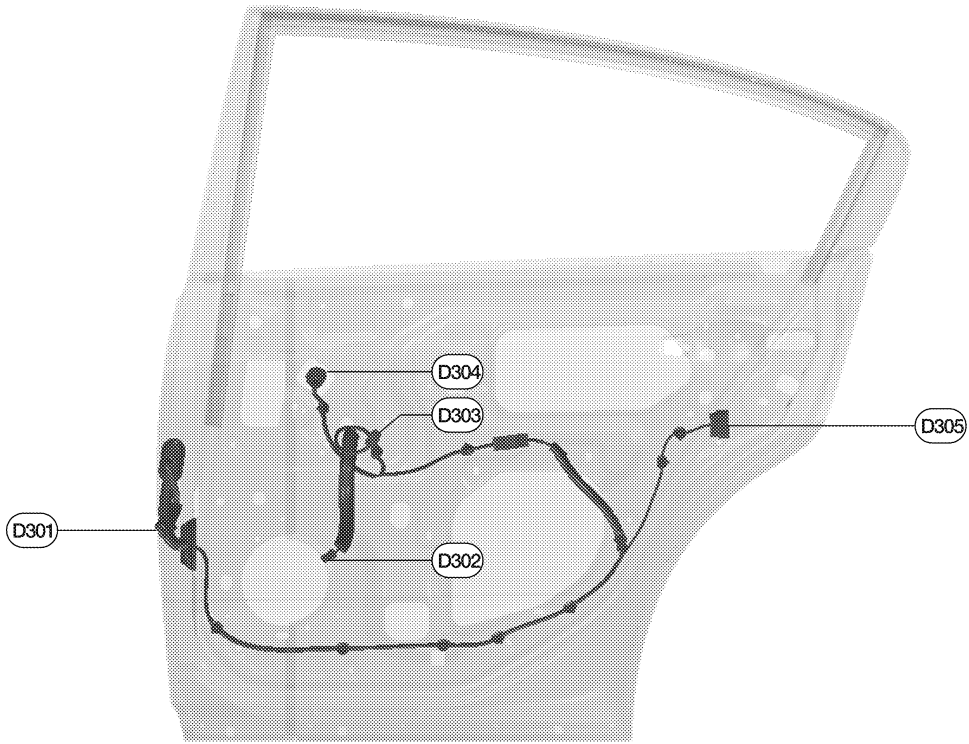
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# HARNESS

< COMPONENT DIAGNOSIS >

[SEDAN]

## 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			



# ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >

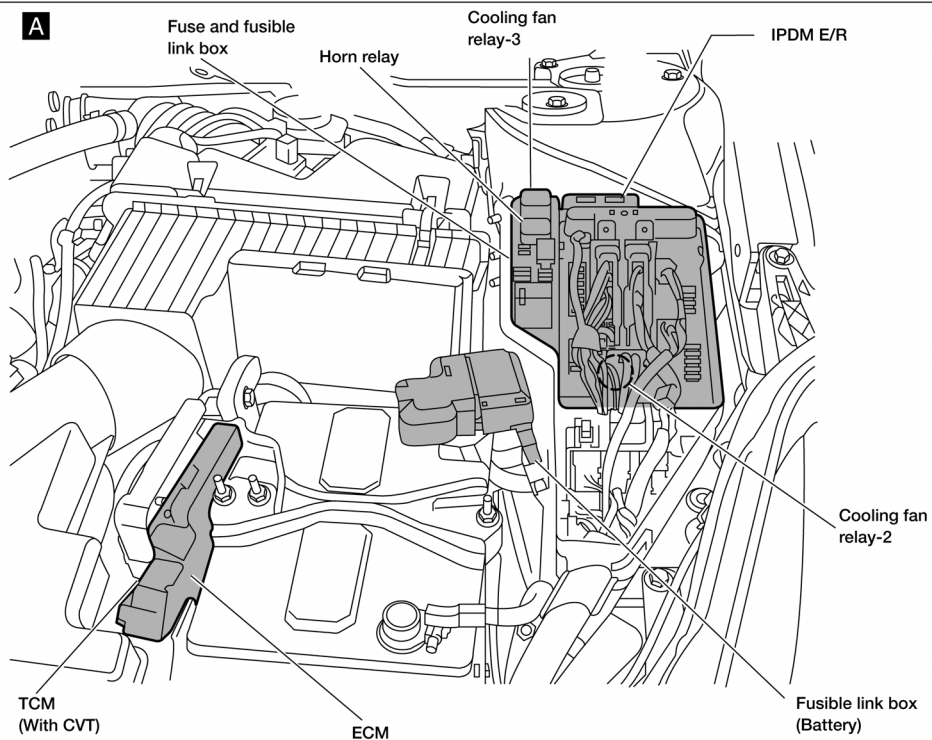
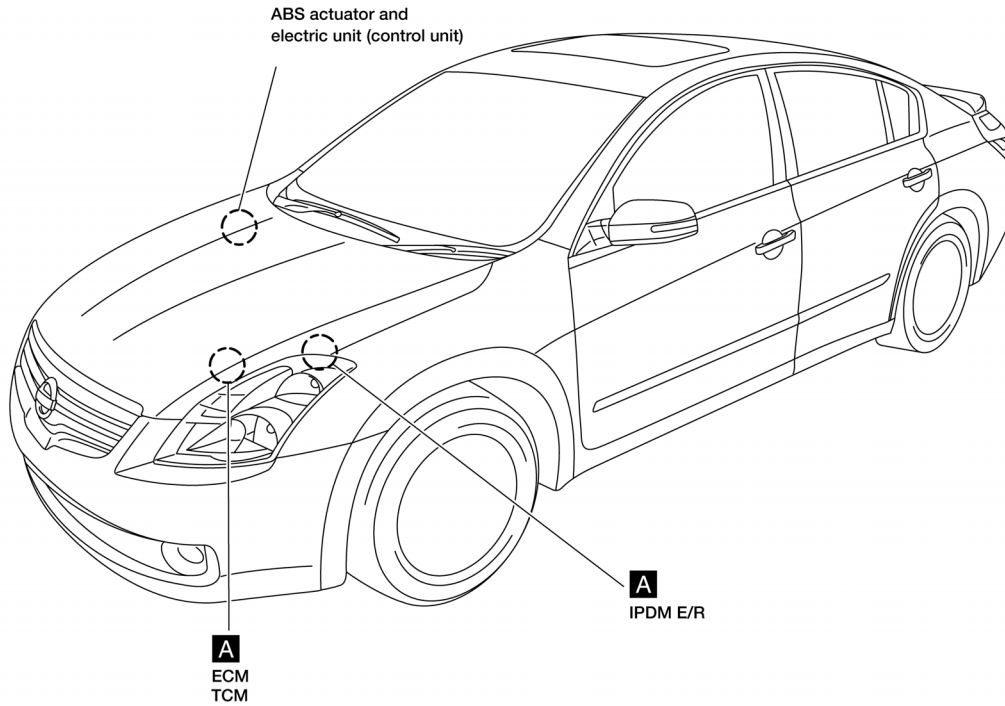
[SEDAN]

## ELECTRICAL UNITS LOCATION

### Electrical Units Location

INFOID:000000005434735

### ENGINE COMPARTMENT



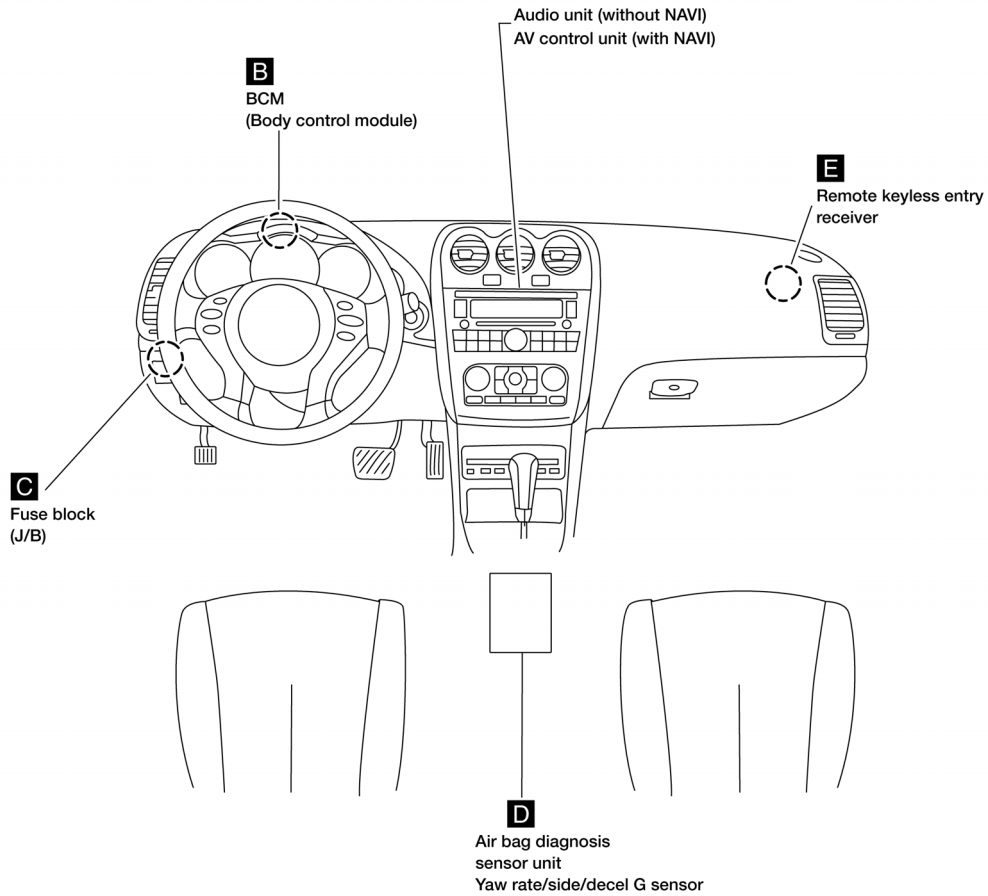
ABMIA1787GB

# ELECTRICAL UNITS LOCATION

[SEDAN]

< COMPONENT DIAGNOSIS >

PASSENGER COMPARTMENT

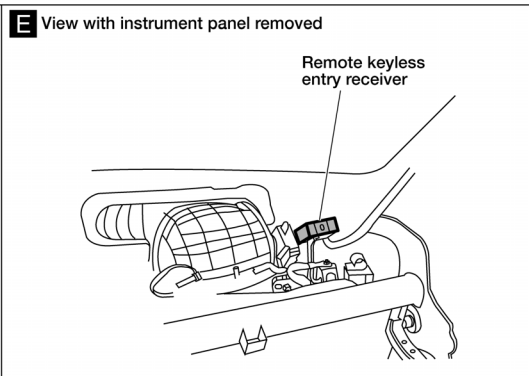
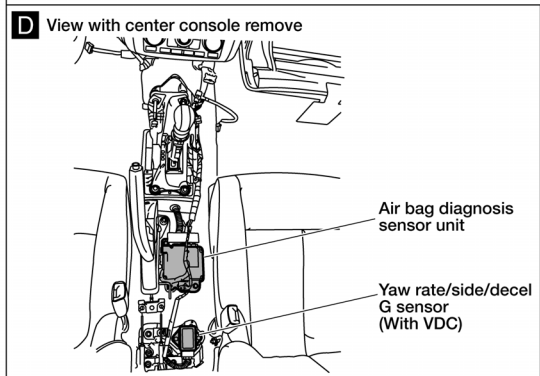
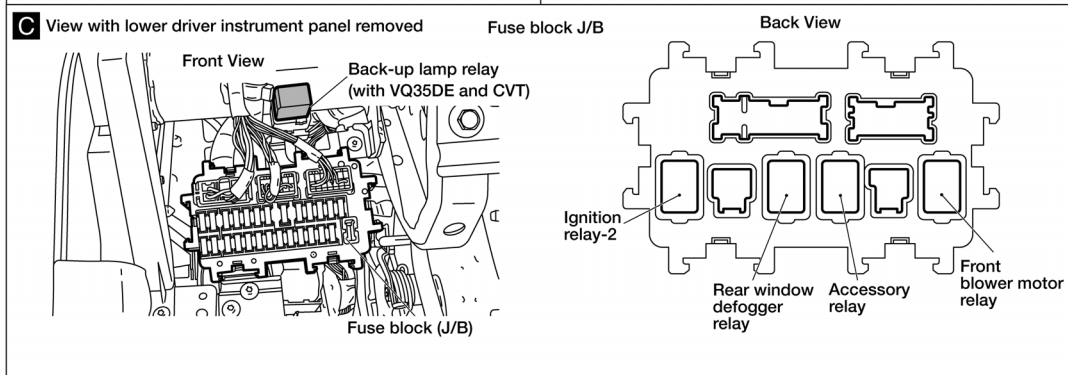
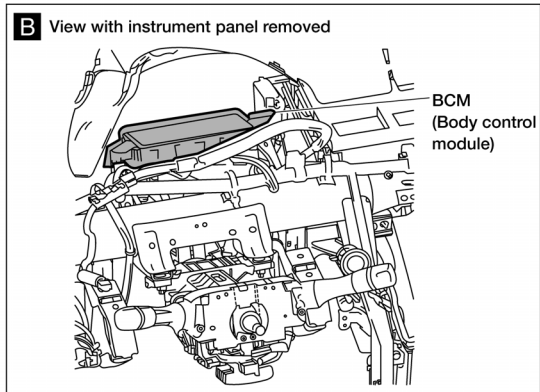


ABMIA1788GB

# ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >

[SEDAN]



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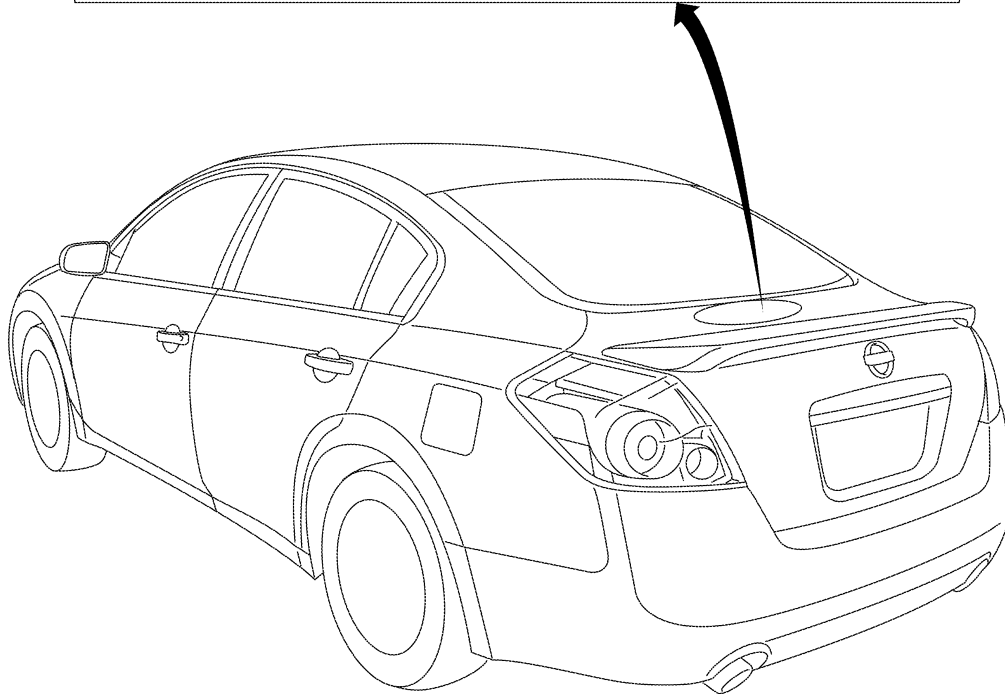
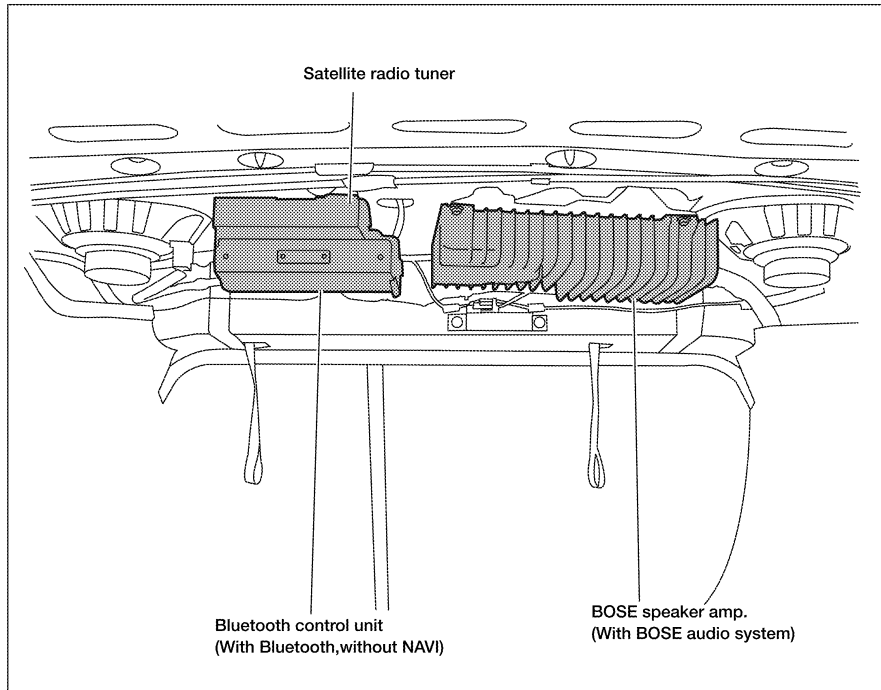
ABMIA1789GB

# ELECTRICAL UNITS LOCATION

[SEDAN]

< COMPONENT DIAGNOSIS >

LUGGAGE COMPARTMENT



ABMIA0512GB

## HARNESS CONNECTOR

### Description

INFOID:000000005434736

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

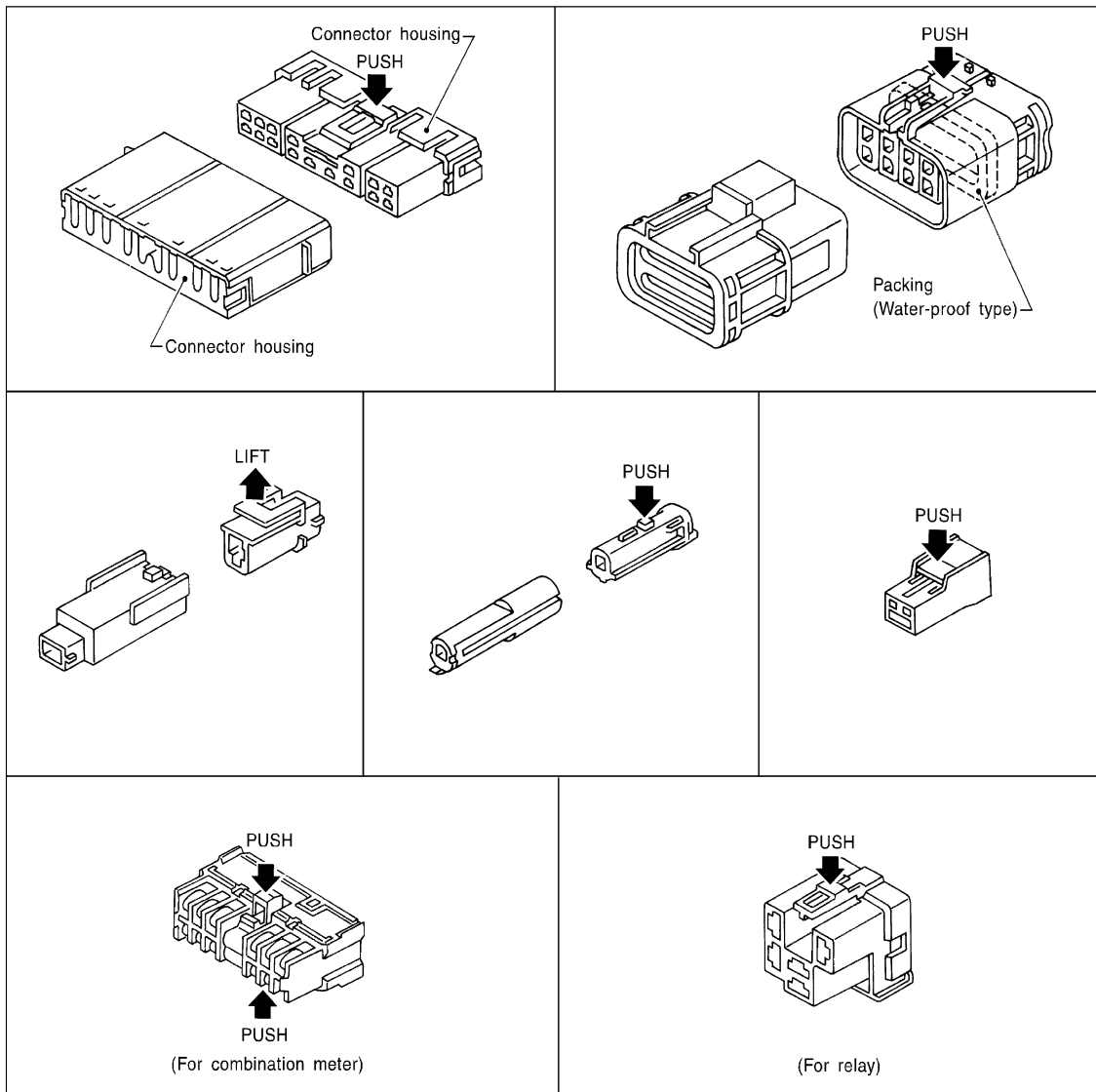
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

[SEDAN]

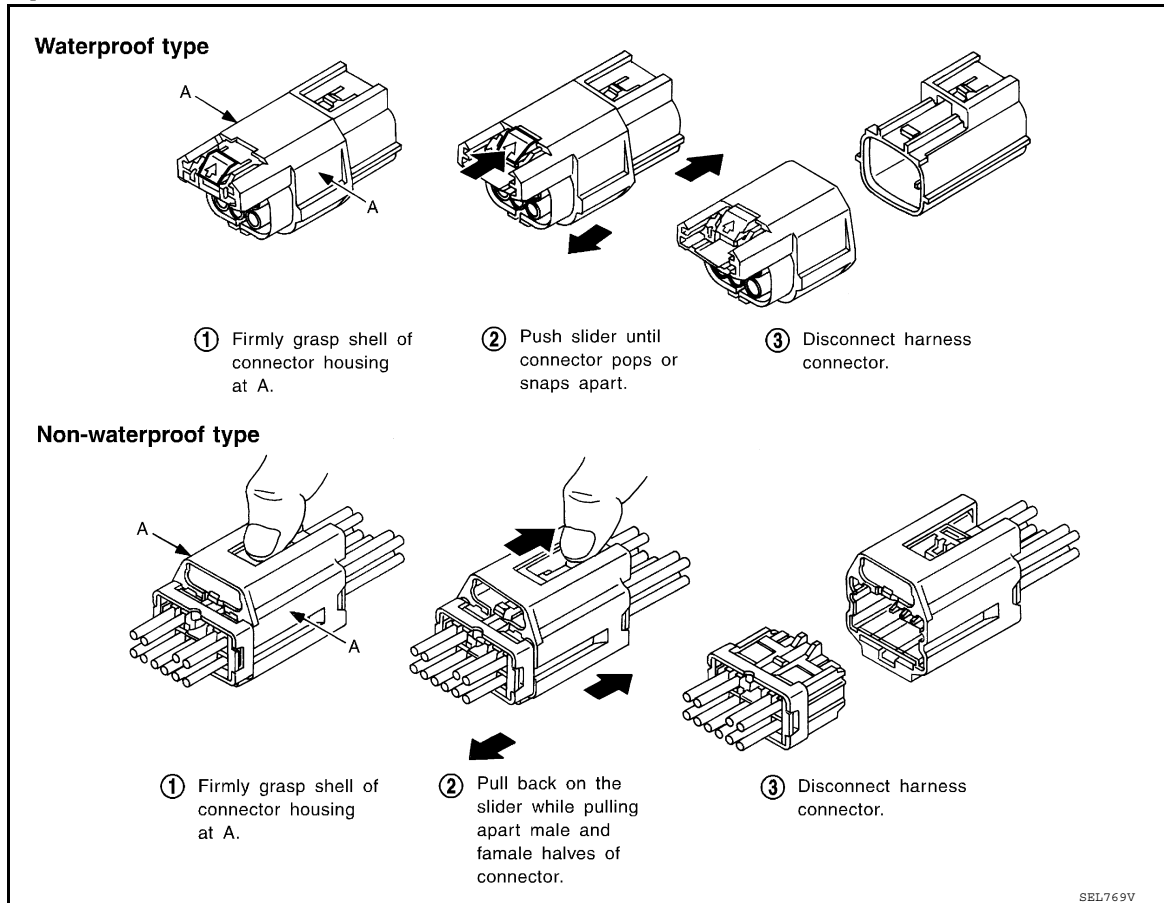
## < COMPONENT DIAGNOSIS >

- 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]



## HARNESS CONNECTOR (LEVER LOCKING TYPE)

- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked in place by moving the lever as far as it will go to ensure full connection.

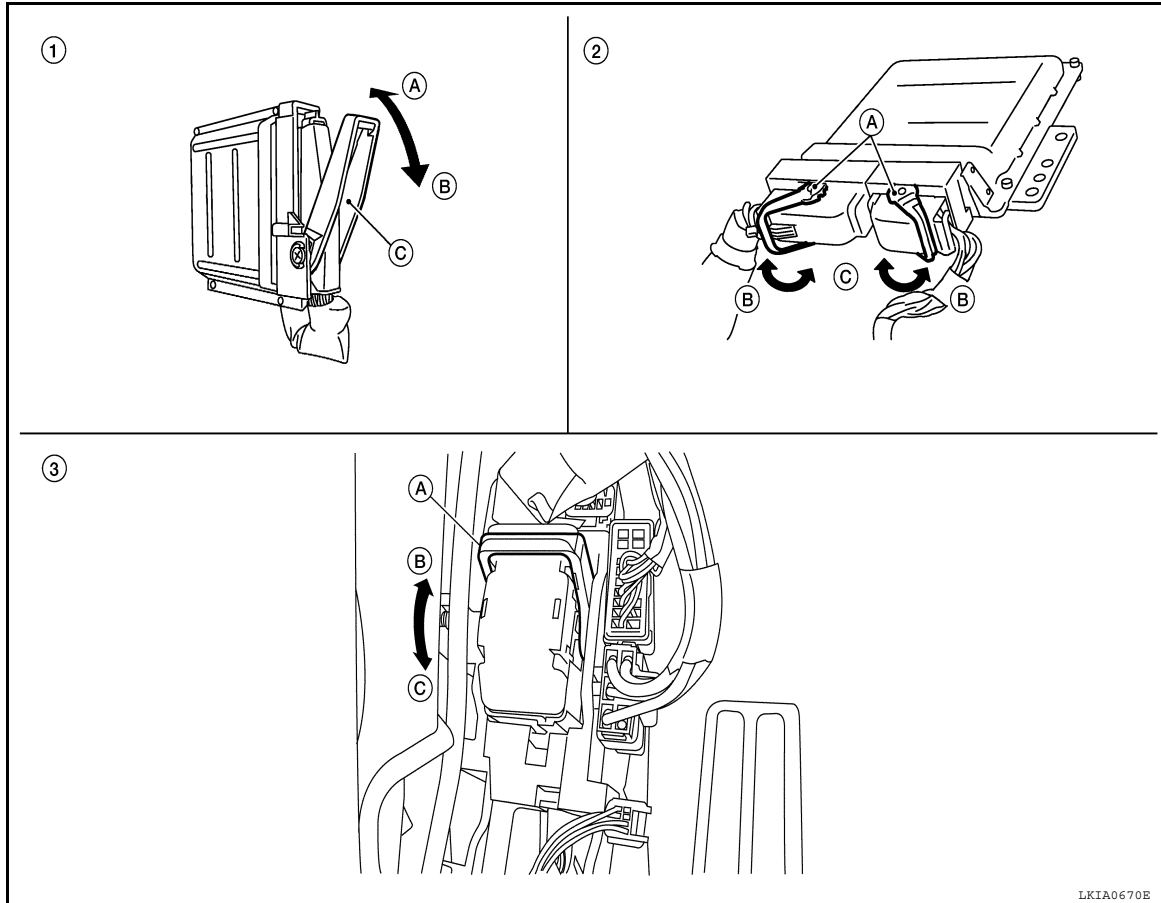
### CAUTION:

# HARNESS CONNECTOR

< COMPONENT DIAGNOSIS >

[SEDAN]

- Always confirm the lever is fully released (loosened) before attempting to disconnect or connect these connectors to avoid damage to the connector housing or terminals.



1. Control unit with single lever  
 A. Fasten  
 B. Loosen  
 C. Lever

2. Control unit with dual lever  
 A. Fasten  
 B. Loosen  
 C. Lever

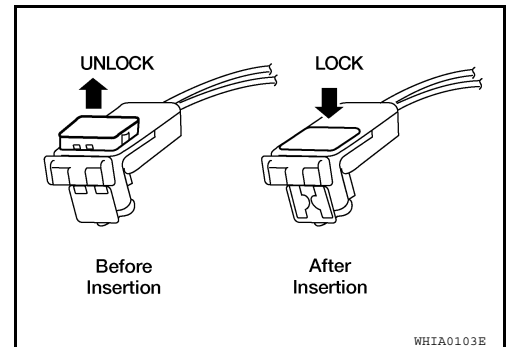
3. SMJ connector  
 A. Fasten  
 B. Loosen  
 C. Lever

## 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 components.
- Always push down to lock black locking tab after installing connector to SRS components. When locked, the black locking tab is level with the connector housing.

### CAUTION:

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



# STANDARDIZED RELAY

[SEDAN]

< COMPONENT DIAGNOSIS >

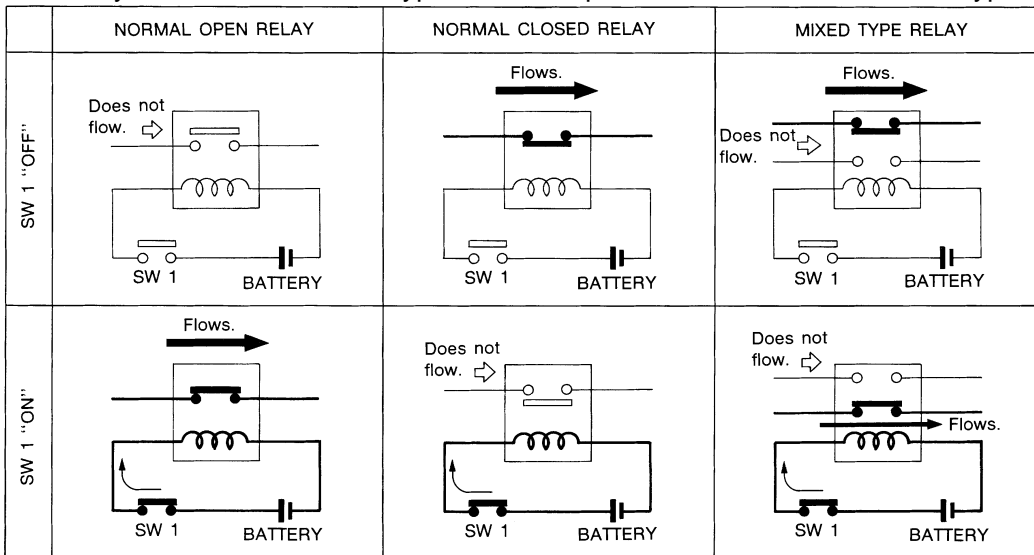
## STANDARDIZED RELAY

### Description

INFOID:000000005434737

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

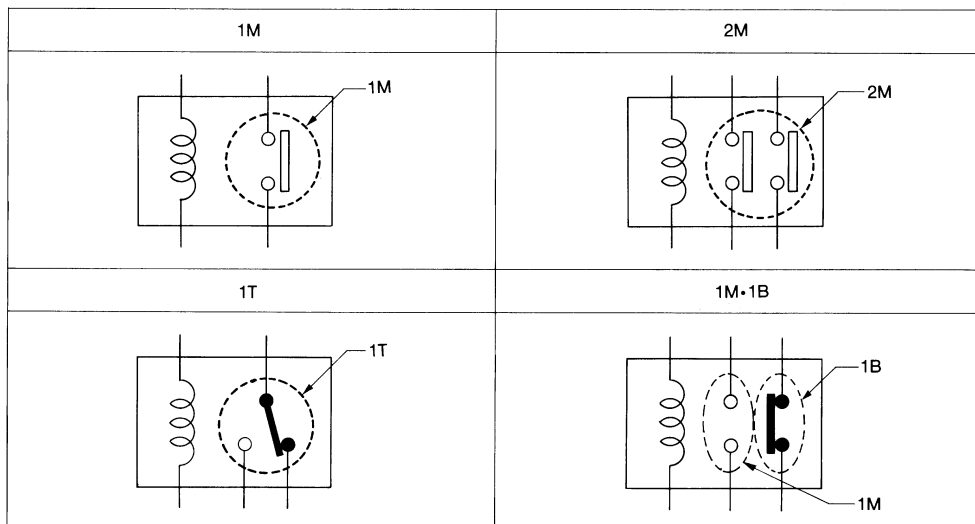
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

### TYPE OF STANDARDIZED RELAYS

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



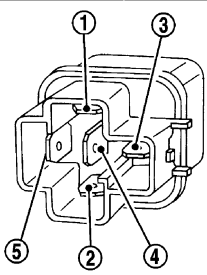
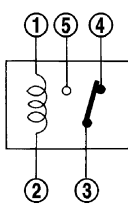
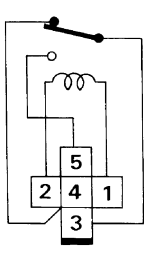
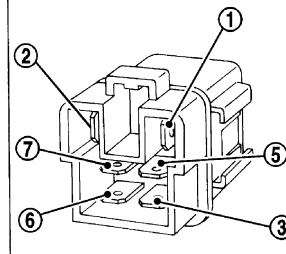
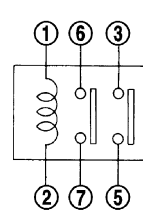
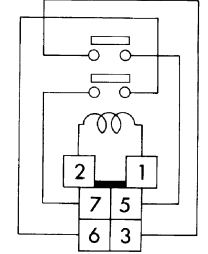
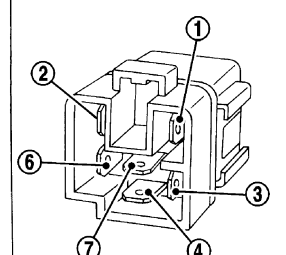
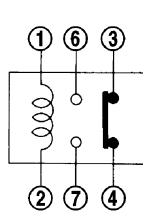
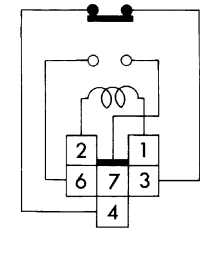
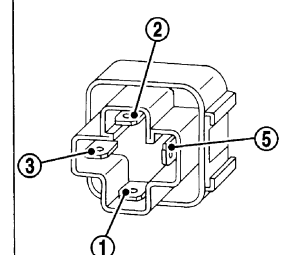
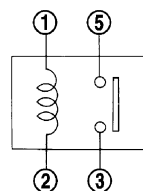
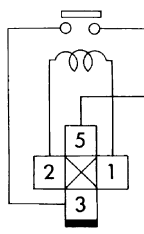
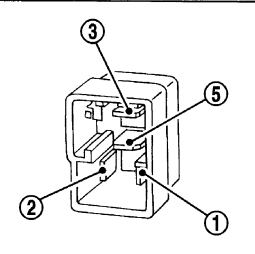
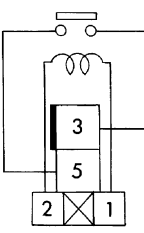
SEL882H



# STANDARDIZED RELAY

< COMPONENT DIAGNOSIS >

[SEDAN]

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

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# FUSE BLOCK - JUNCTION BOX (J/B)

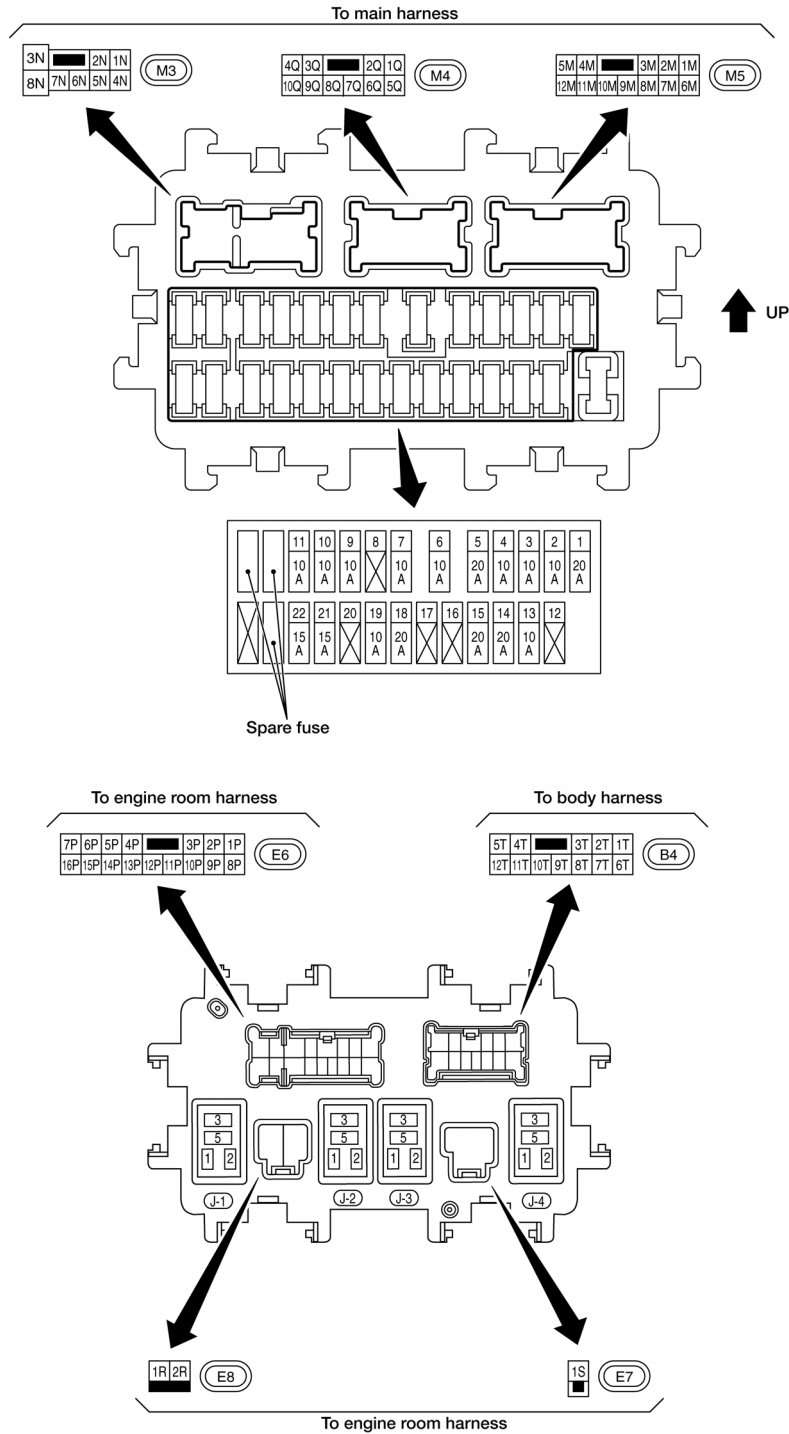
[SEDAN]

< COMPONENT DIAGNOSIS >

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

### Terminal Arrangement

INFOID:000000005434738



ABMIA1790GB

# FUSE, FUSIBLE LINK AND RELAY BOX

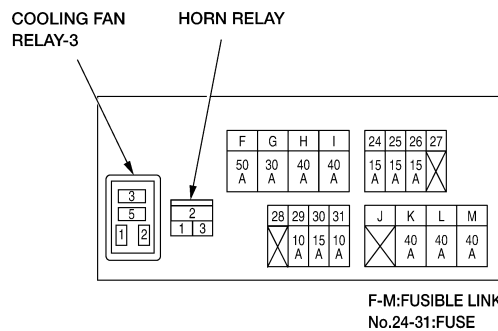
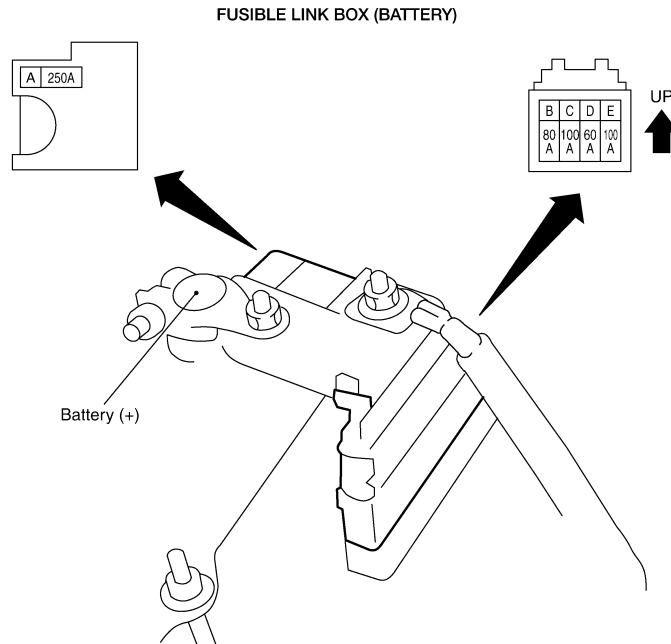
[SEDAN]

< COMPONENT DIAGNOSIS >

## FUSE, FUSIBLE LINK AND RELAY BOX

### Terminal Arrangement

INFOID:000000005434739



ABMIA0514GB

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

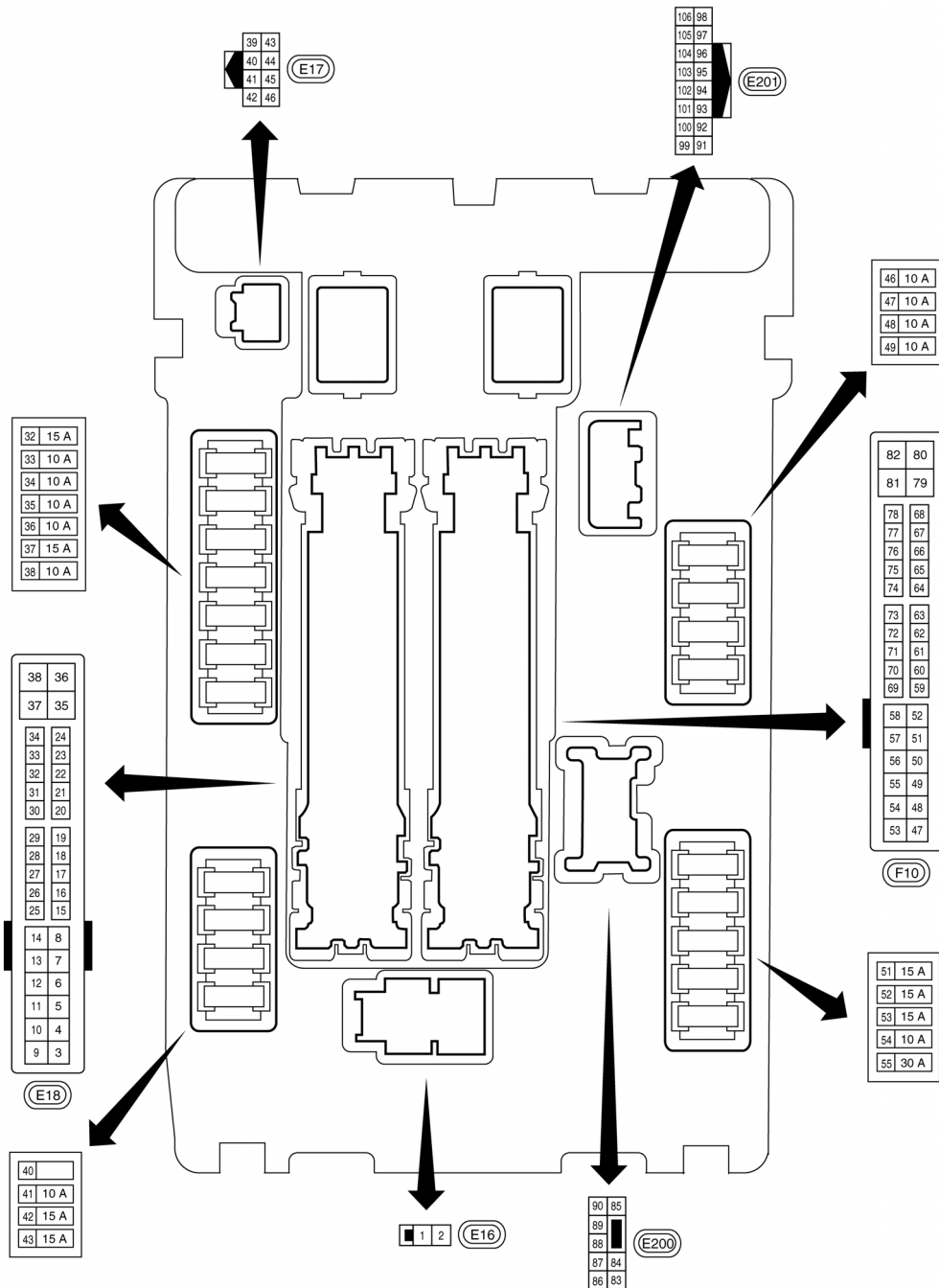
< COMPONENT DIAGNOSIS >

[SEDAN]

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

### Fuse, Connector and Terminal Arrangement

INFOID:000000005434740



ABMIA1791GB

# PRECAUTION

## PRECAUTIONS

### Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"

INFOID:000000005783659

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 SR 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 SR 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.

### PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

**WARNING:**

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

### Battery Service

INFOID:000000005434743

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.

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# PREPARATION

[SEDAN]

< PREPARATION >

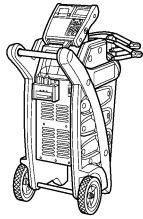
## PREPARATION

### PREPARATION

#### Special Service Tool

INFOID:000000005434744

Tool number (Kent-Moore No.) Tool name	Description
— (—) Model GR-8 Multitasking Battery Diagnostic Station	Tests batteries, starting and charging systems. For operating instructions, refer to diagnostic station instruction manual.

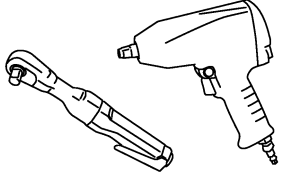


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#### Commercial Service Tool

INFOID:000000005434745

Tool name	Description
Power tool	Loosening bolts and nuts



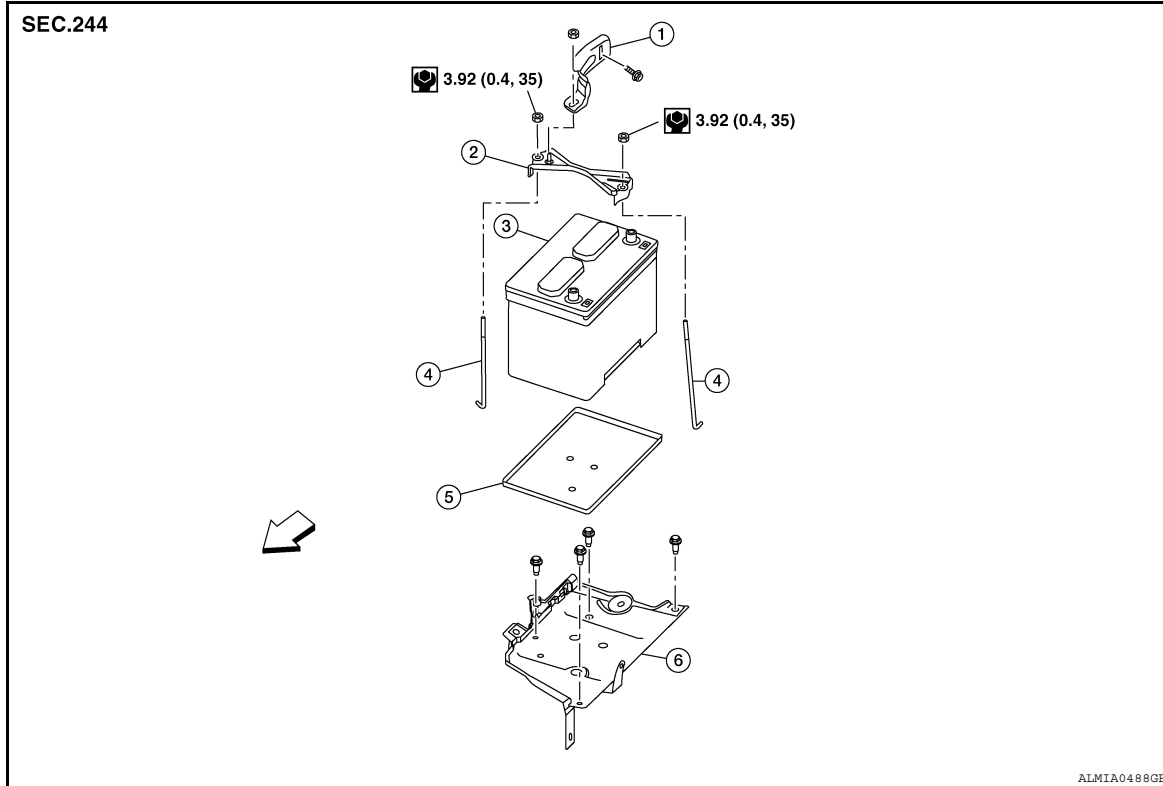
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## ON-VEHICLE REPAIR

### BATTERY

#### Exploded View

INFOID:000000005783637



- |                      |                       |                 |
|----------------------|-----------------------|-----------------|
| 1. Upper ECM bracket | 2. Battery frame      | 3. Battery      |
| 4. Battery rods      | 5. Battery tray liner | 6. Battery tray |
- ⇐ Front

### Removal and Installation (Battery)

INFOID:000000005434746

#### REMOVAL

1. Disconnect the battery negative and positive terminals.  
**CAUTION:**  
**Disconnect the negative terminal first.**
2. Remove battery frame nuts and battery frame.
3. Remove battery.

#### INSTALLATION

Installation is in the reverse order of removal.

**CAUTION:**  
**Connect the positive terminal first.**

**Battery 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)**

Reset electronic systems as necessary. Refer to [PG-76, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

## Removal and Installation (Battery Tray)

INFOID:000000005783638

### REMOVAL

1. Remove battery and battery tray liner. Refer to [PG-142, "Removal and Installation \(Battery\)"](#).
2. Remove air cleaner assembly. Refer to [EM-25, "Removal and Installation"](#) (QR25DE models) or [EM-129, "Removal and Installation"](#) (VQ35DE models).
3. Disconnect and remove ECM.
4. Disconnect transmission control module (TCM) (CVT models). Refer to [TM-251, "Removal and Installation"](#) (RE0F09B) or [TM-423, "Removal and Installation"](#) (RE0F10A).
5. Remove the ECM bracket.
6. Remove current sensor from battery tray.
7. Remove the battery tray bolts and battery tray.

### INSTALLATION

Installation is in the reverse order of removal.

Reset electronic systems as necessary. Refer to [PG-76, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).



# BATTERY

< SERVICE DATA AND SPECIFICATIONS (SDS)

[SEDAN]

## SERVICE DATA AND SPECIFICATIONS (SDS)

### BATTERY

#### Battery

INFOID:000000005434747

Type*	GR.35 (BCI)
Capacity (20HR) minimum V-AH	12 - 63
Cold cranking current A @ -18°C (0°F)	550

\*: Always check with the Parts Department for the latest parts information

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