

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000005774237

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.

PREPARATION


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PREPARATION

PREPARATION

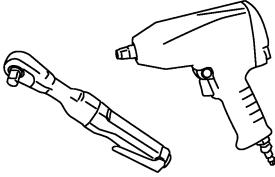
Special Service Tool

INFOID:000000005282528

Tool number (Kent-Moore No.) Tool name	Description
<p>— (—) Model GR-8 Multitasking Battery Diagnostic Station</p>  <p style="text-align: right; font-size: small;">AWIIA1239ZZ</p>	<p>Tests batteries, starting and charging systems. For operating instructions, refer to diagnostic station instruction manual.</p>

Commercial Service Tool

INFOID:000000005282529

Tool number Tool name	Description
<p>Power tool</p>  <p style="text-align: right; font-size: small;">PBIC0190E</p>	<p>Loosening bolts and nuts</p>

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BATTERY

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY

How to Handle Battery

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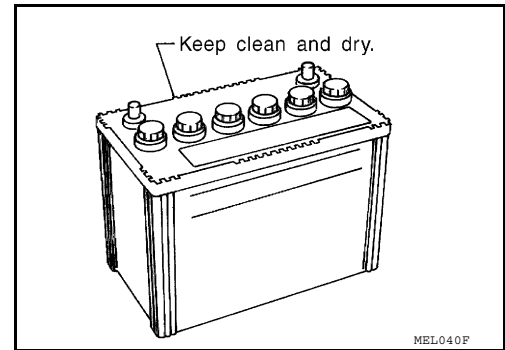
CAUTION:

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

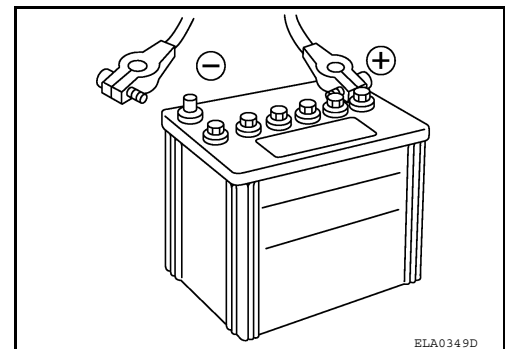
METHODS OF PREVENTING OVER-DISCHARGE

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

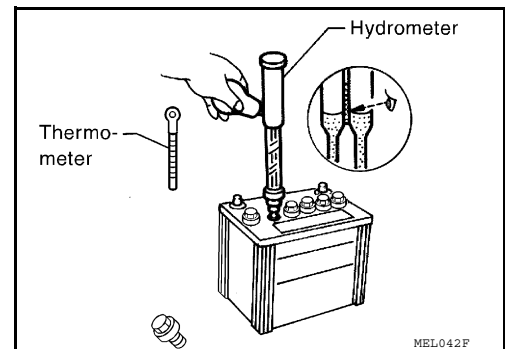
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level. This also applies to batteries designated as "low maintenance" and "maintenance-free".



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



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



CHECKING ELECTROLYTE LEVEL

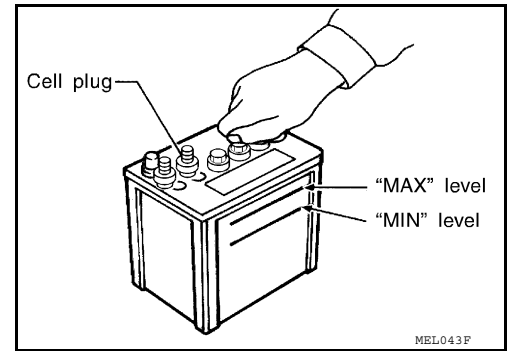
WARNING:

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

BATTERY

< BASIC INSPECTION >

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

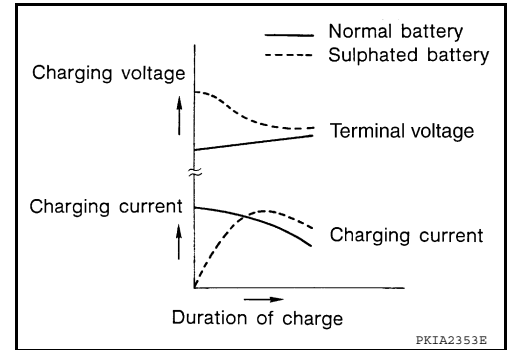


Sulphation

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

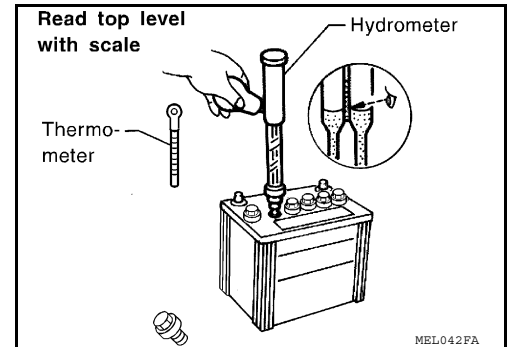
To determine if a battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.

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



SPECIFIC GRAVITY CHECK

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



Hydrometer Temperature Correction

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

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BATTERY

< BASIC INSPECTION >

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

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

CHARGING THE BATTERY

CAUTION:

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

Charging Rates

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

Do not charge at more than 50 ampere rate.

NOTE:

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

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

Work Flow

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TROUBLE DIAGNOSIS WITH MULTITASKING BATTERY DIAGNOSTIC STATION

Refer to diagnostic station instruction manual.

INSPECTION AND ADJUSTMENT

< BASIC INSPECTION >

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 EC-17, "Idle Air Volume Learning" .
Brake Control	Steering Angle Sensor Neutral Position	Refer to BRC-69, "ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION : Special Repair Requirement" .
Audio-Visual System	Audio (Radio Preset)	Refer to Owner's Manual.

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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

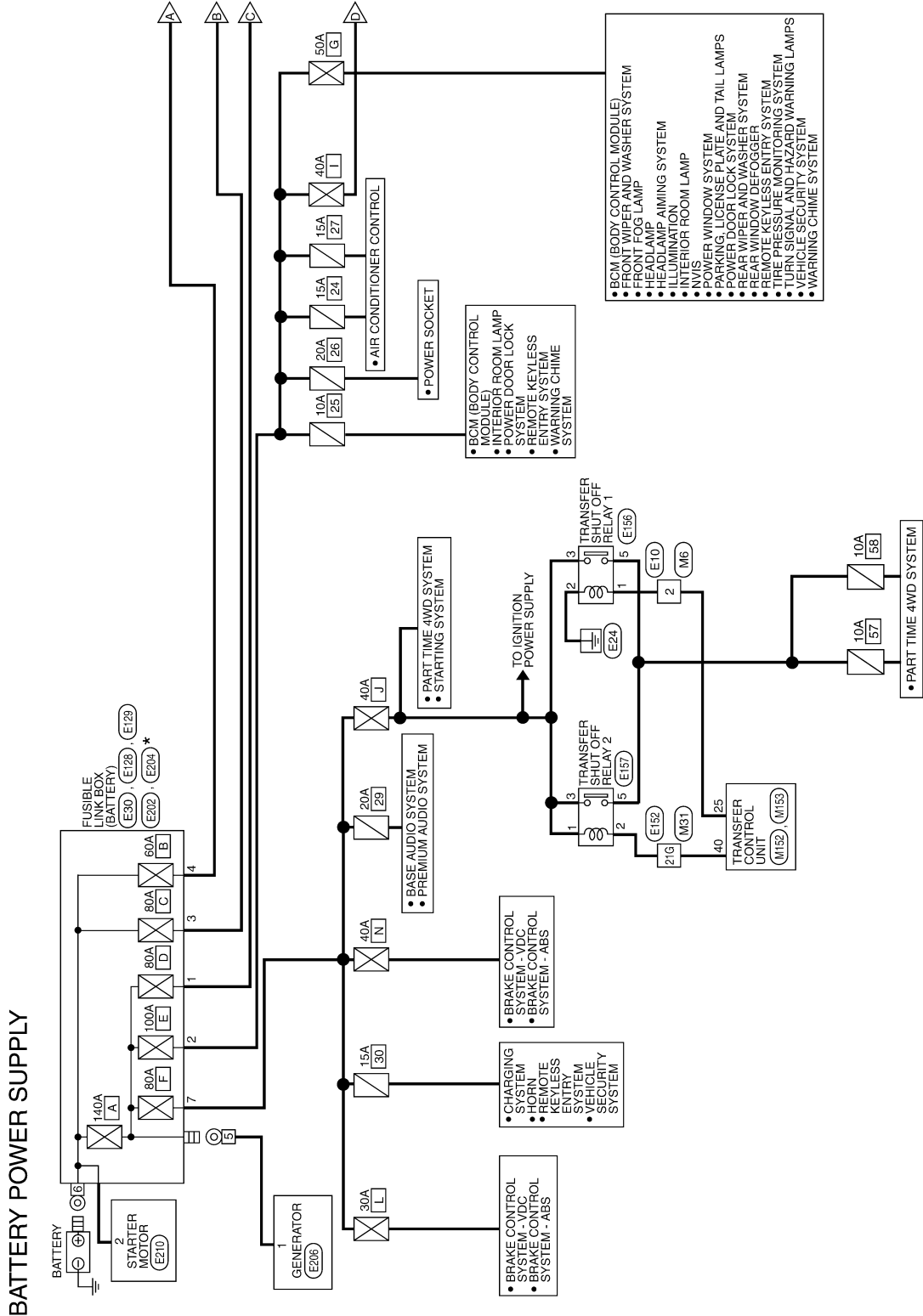
COMPONENT DIAGNOSIS

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram—Battery Power Supply—

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

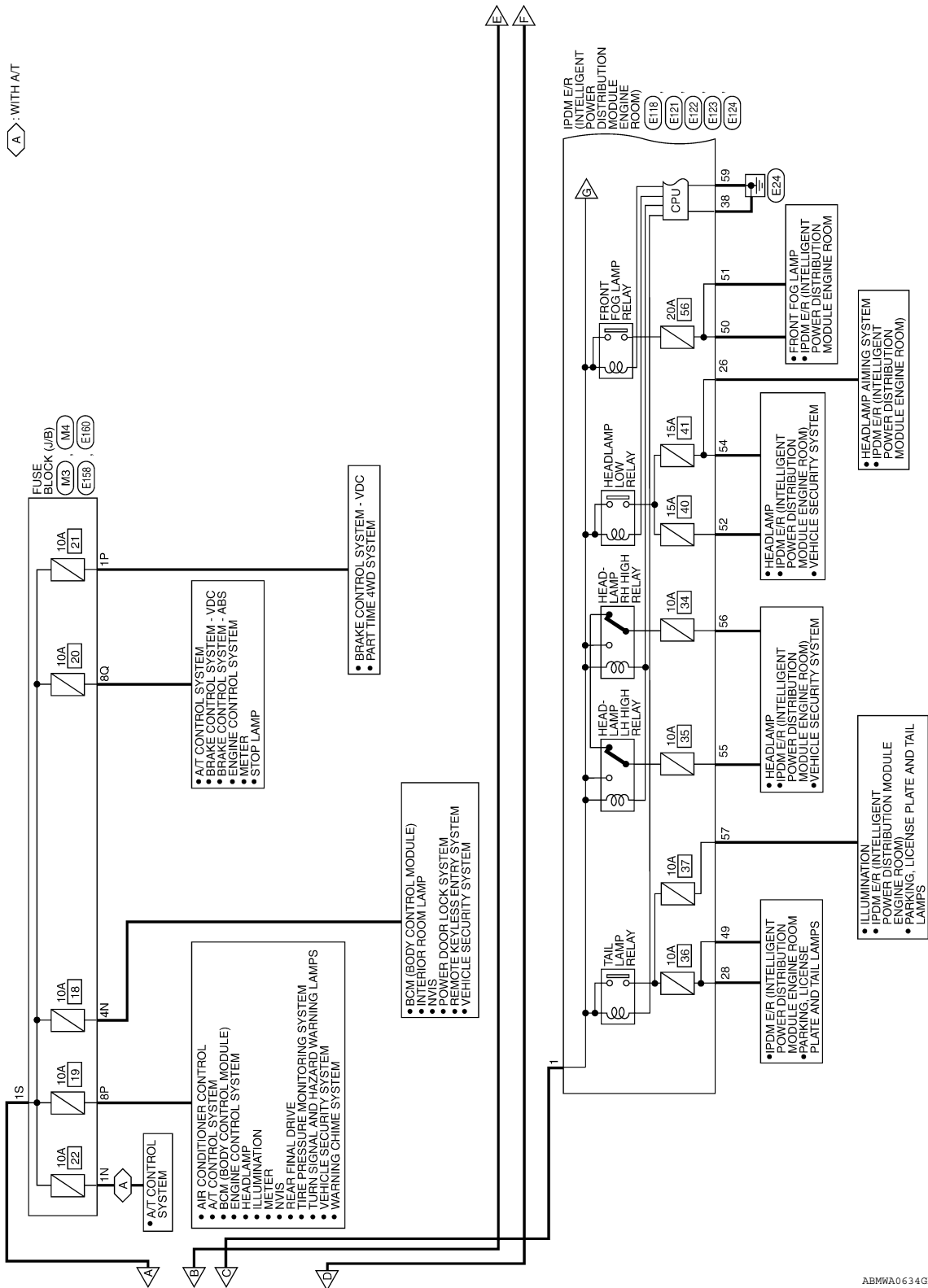


* : (E204) IS AN INTEGRAL PART OF FUSIBLE LINK BOX (BATTERY).

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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >



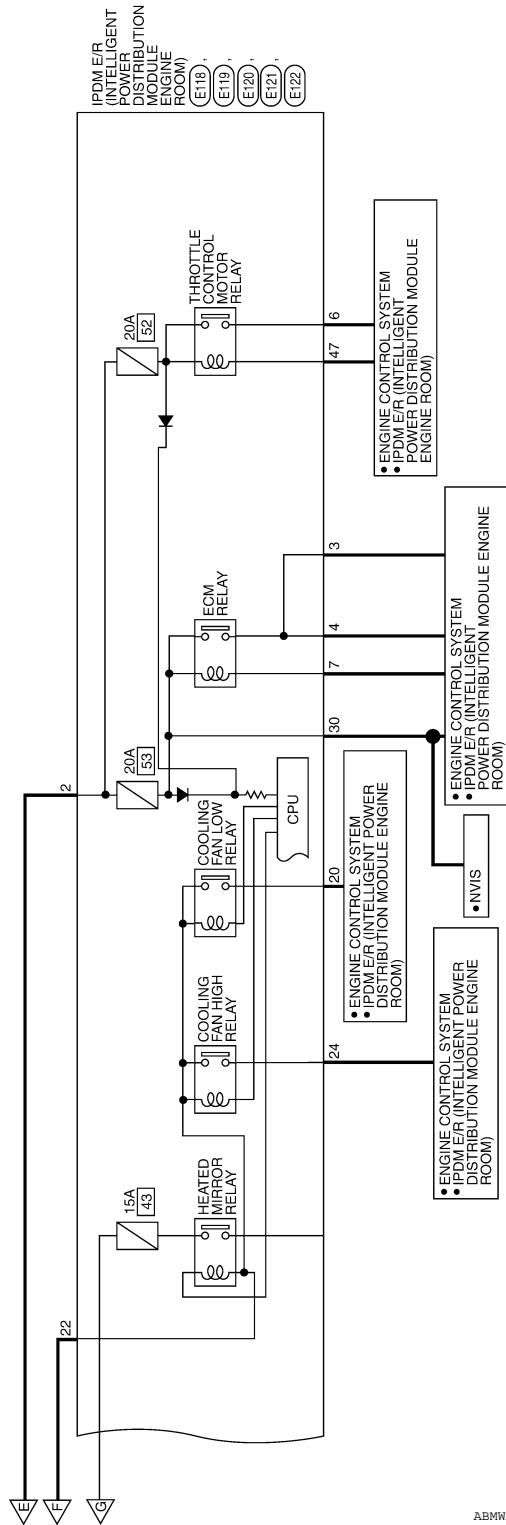
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >



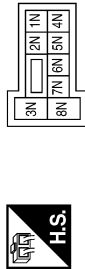
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

BATTERY POWER SUPPLY CONNECTORS

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



Terminal No.	Color of Wire	Signal Name
1N	R/B	-
4N	R/Y	-

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



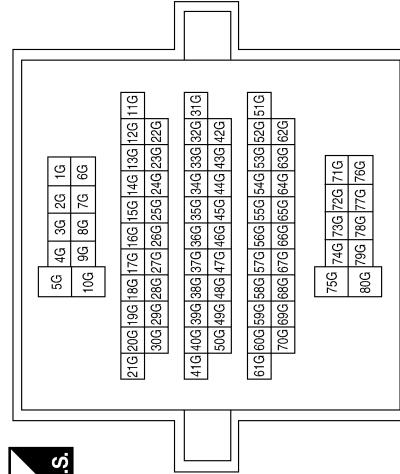
Terminal No.	Color of Wire	Signal Name
1P	R/B	-
8P	R/Y	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



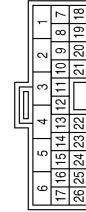
Terminal No.	Color of Wire	Signal Name
2	W/G	-

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Color	WHITE



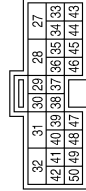
Terminal No.	Color of Wire	Signal Name
21G	V	-

Connector No.	M152
Connector Name	TRANSFER CONTROL UNIT
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
25	W/G	IGN SW

Connector No.	M153
Connector Name	TRANSFER CONTROL UNIT
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
40	V	SSOF

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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	E118
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	F/L USM
2	R	F/L MAIN

Connector No.	E30
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	-



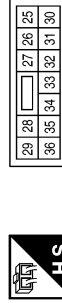
Terminal No.	Color of Wire	Signal Name
3	R	-

Connector No.	E10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



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

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



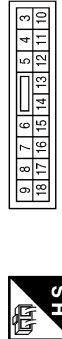
Terminal No.	Color of Wire	Signal Name
26	O	H/LAMP LEVELIZE
28	R	CLEARANCE FRONT LH
30	R/B	ECM BAT

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
20	BR	F/L MOTOR FAN
22	G	F/L M/FAN
24	P	MOTOR FAN 2

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3	G	IGN COIL
4	P	ECM
6	V	ETC
7	BR	ECM RLY CONT

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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



59	58	57
52	61	60

Terminal No.	Color of Wire	Signal Name
57	GR	TAIL LAMP
59	B	GND (POWER)

Connector No.	E123
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



51	50	49
56	55	54
53	52	51

Terminal No.	Color of Wire	Signal Name
49	GR	ILLUMINATION
50	W	FR FOG LAMP LH
51	V	FR FOG LAMP RH
52	P	H/LAMP LO LH
54	R	H/LAMP LO RH
55	G	H/LAMP HI LH
56	L	H/LAMP HI RH

Connector No.	E122
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



42	41	40	39	38	37
48	47	46	45	44	43

Terminal No.	Color of Wire	Signal Name
38	B	GND (SIGNAL)
47	O	ETC RLY CONT

Connector No.	E129
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BLACK



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Terminal No.	Color of Wire	Signal Name
1	W	-
2	R	-

Connector No.	E128
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



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Terminal No.	Color of Wire	Signal Name
4	W	-
7	W	-

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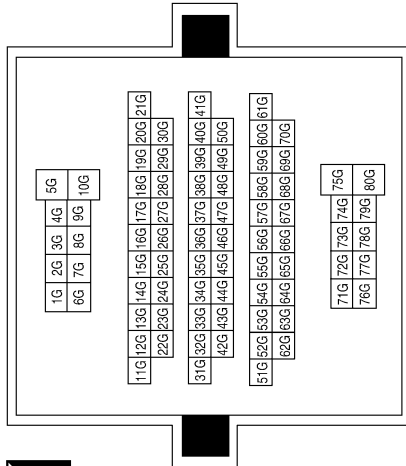
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	E152
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
21G	V	-

Connector No.	E156
Connector Name	TRANSFER SHUT OFF RELAY 1
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	W/G	-
2	B	-
3	B	-
5	W	-

Connector No.	E157
Connector Name	TRANSFER SHUT OFF RELAY 2
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	G	-
2	V	-
3	B	-
5	W	-

Connector No.	E158
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK



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

Connector No.	E160
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8Q	R/B	-

Connector No.	E202
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	-

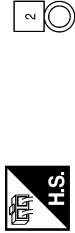


Terminal No.	Color of Wire	Signal Name
5	B/R	-

POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	E210
Connector Name	STARTER MOTOR
Connector Color	-



Terminal No.	2	Color of Wire	B/R	Signal Name	-
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Connector No.	E206
Connector Name	GENERATOR
Connector Color	-



Terminal No.	1	Color of Wire	B/R	Signal Name	B
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Connector No.	E204
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	-



Terminal No.	6	Color of Wire	B/R	Signal Name	-
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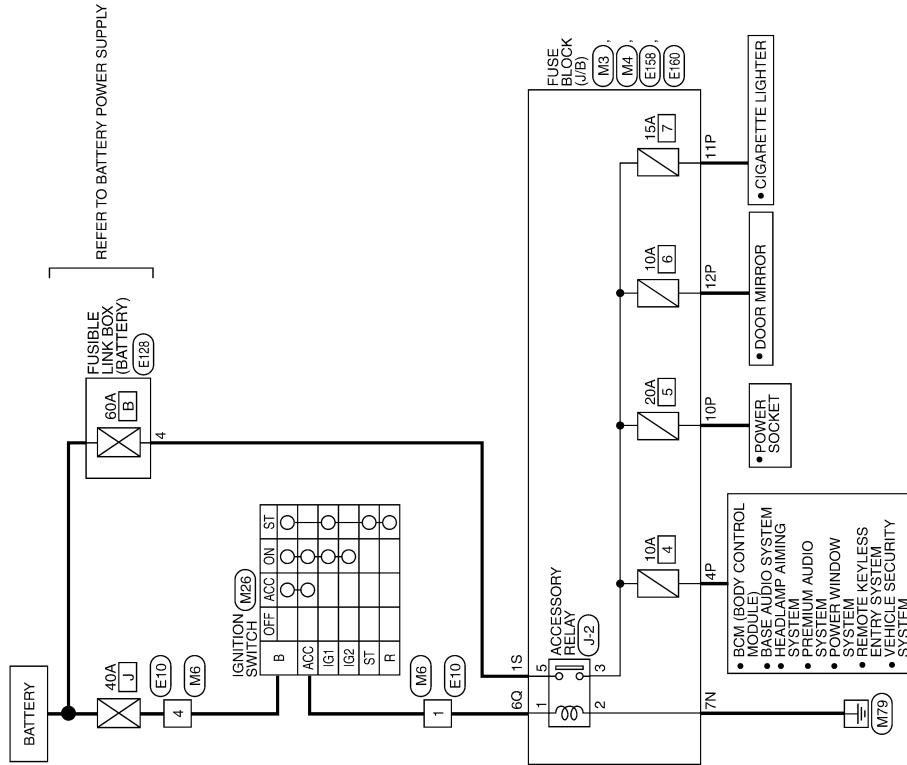
POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Wiring Diagram—Accessory Power Supply—

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ACCESSORY POWER SUPPLY



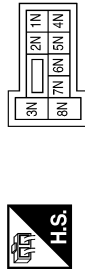
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

ACCESSORY POWER SUPPLY CONNECTORS

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



Terminal No.	Color of Wire	Signal Name
7N	B	-

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



Terminal No.	Color of Wire	Signal Name
4P	G/B	-
10P	G/Y	-
11P	L	-
12P	G/Y	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	G/Y	-
4	G	-

Connector No.	M26
Connector Name	IGNITION SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
B	G	-
ACC	G/Y	-

Connector No.	E10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1	G/Y	-
4	G	-

Connector No.	E128
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
4	W	-

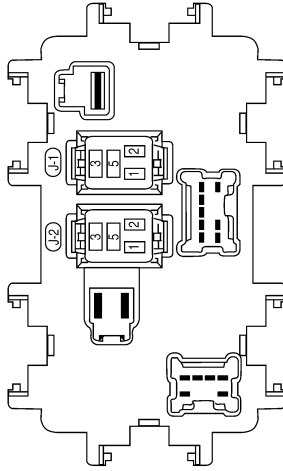
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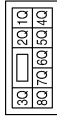
POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

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



Connector No.	E160
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	6Q	Color of Wire	G/Y	Signal Name	-
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Connector No.	E158
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK

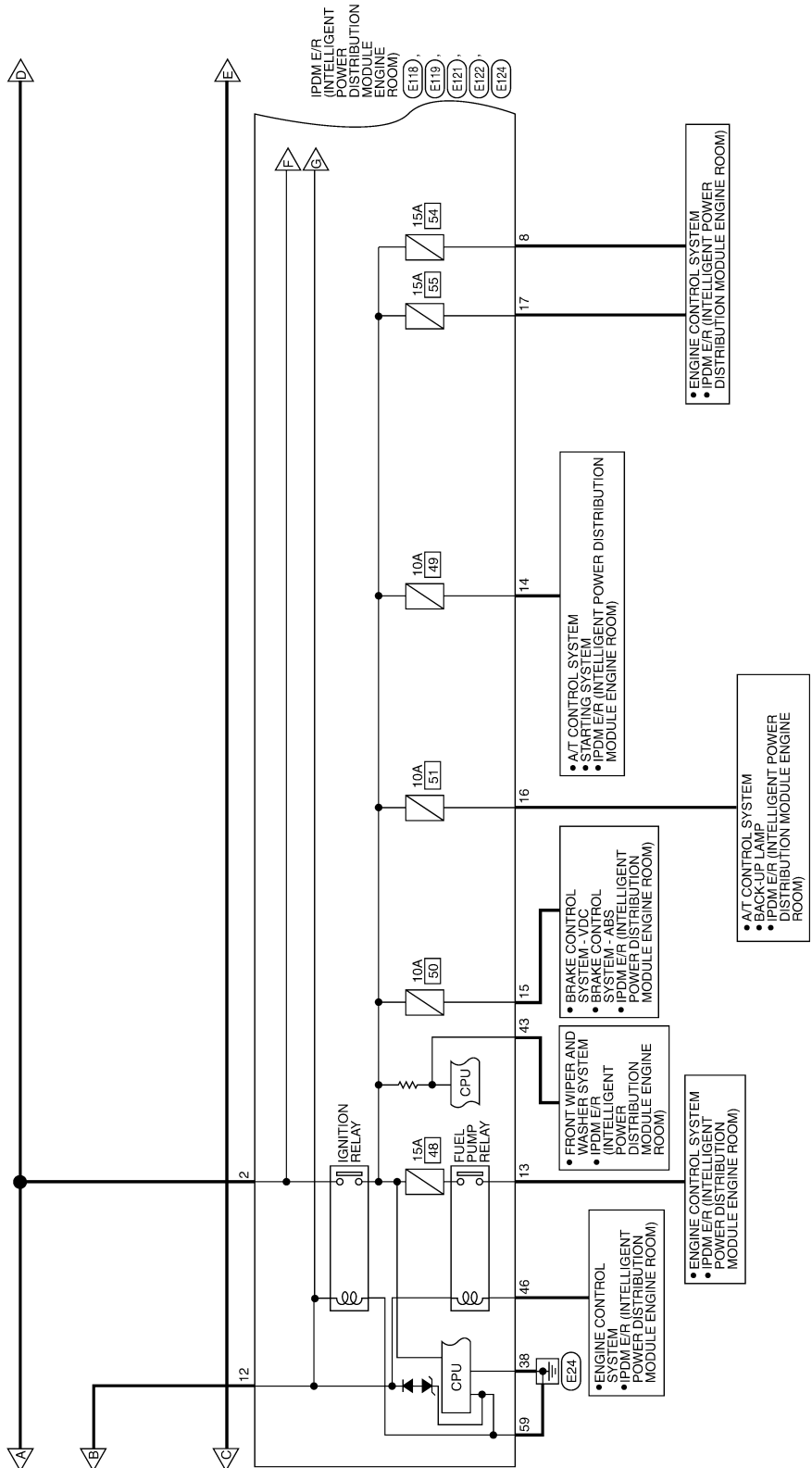


Terminal No.	1S	Color of Wire	W	Signal Name	-
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POWER SUPPLY ROUTING CIRCUIT

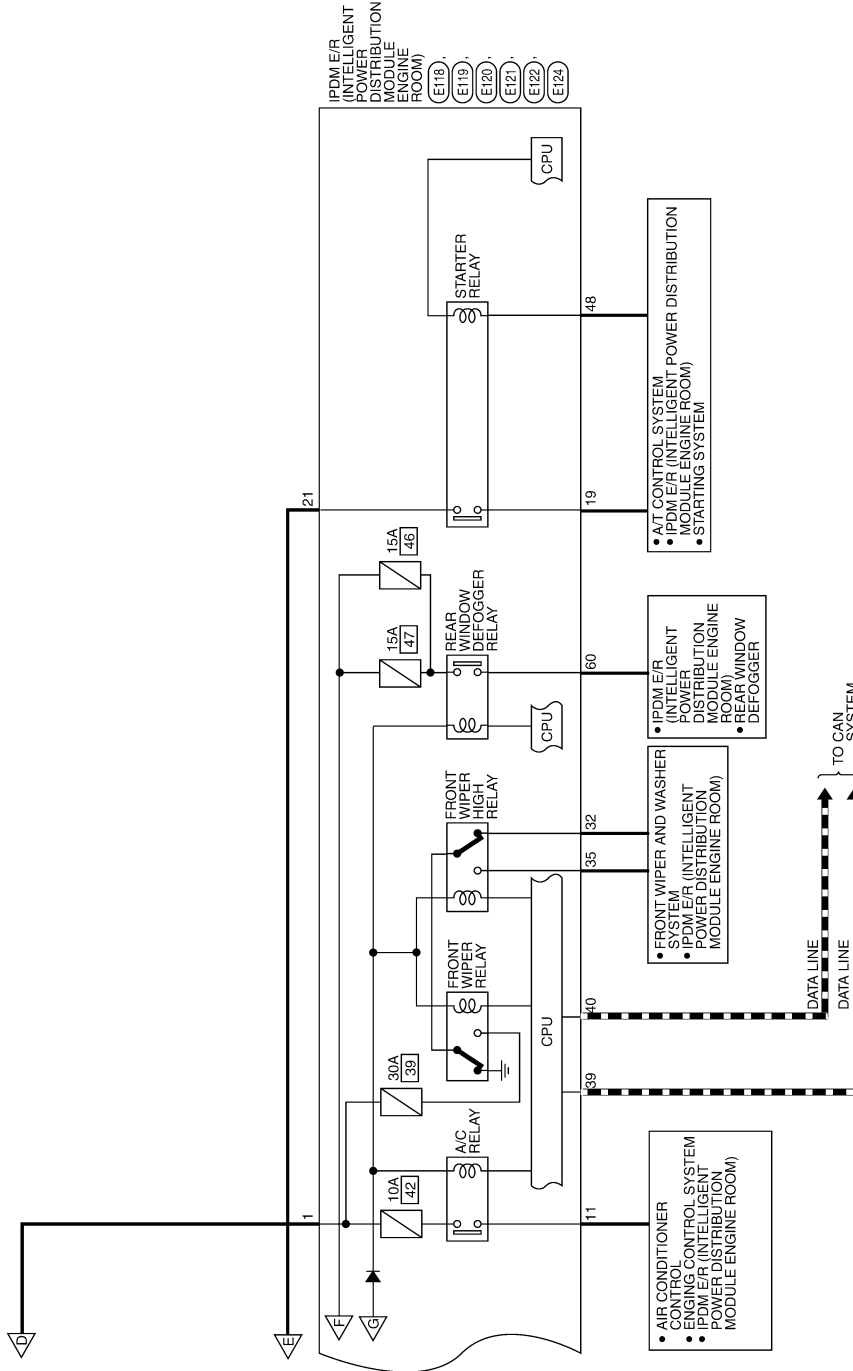
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >



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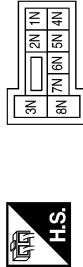
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

IGNITION POWER SUPPLY CONNECTORS

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



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

Terminal No.	Color of Wire	Signal Name
5N	W/G	-

Terminal No.	Color of Wire	Signal Name
2P	W/G	-
5P	W/G	-
6P	W/R	-
9P	W/G	-
13P	W/G	-
15P	W/R	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	W/G	-
4	G	-
5	R	-

Connector No.	M26
Connector Name	IGNITION SWITCH
Connector Color	WHITE



Connector No.	E10
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Connector No.	E118
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
B	G	-
ST	GR	-
IG1	W/G	-
IG2	R	-

Terminal No.	Color of Wire	Signal Name
2	W/G	-
4	G	-
5	R	-

Terminal No.	Color of Wire	Signal Name
1	W	F/L USM
2	R	F/L MAIN

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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

21	20	19
24	23	22



Terminal No.	Color of Wire	Signal Name
19	W	STARTER MTR
21	GR	IGN SW (ST)

Terminal No.	Color of Wire	Signal Name
15	W/R	ABS IGN SUPPLY
16	W/G	REVERSE LAMP
17	W/G	INJECTOR

Connector No.	E119
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

9	8	7	6	5	4	3
18	17	16	15	14	13	12
11	10	9	8	7	6	5



Terminal No.	Color of Wire	Signal Name
8	W/R	O2 SENS
11	Y	A/C COMPRESSOR
12	W/G	IGN SW (IG)
13	R	FUEL PUMP
14	W/G	A/T ECU IGN SUPPLY

Connector No.	E124
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK

59	58	57
62	61	60



Terminal No.	Color of Wire	Signal Name
59	B	GND (POWER)
60	GR	RR DEF

Connector No.	E122
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

42	41	40	39	38	37
48	47	46	45	44	43



Terminal No.	Color of Wire	Signal Name
38	B	GND (SIGNAL)
39	L	CAN-H
40	P	CAN-L
43	G	AUTO STOP SW
46	V	FUEL PUMP RLY CONT
48	R	RANGE SW

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN

29	28	27	26	25
36	35	34	33	32
31	30			



Terminal No.	Color of Wire	Signal Name
27	W/G	TTOW REV LAMP
32	GR	FR WIPER LO
35	L	FR WIPER HI

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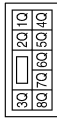
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	E160
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1Q	W/G	-
2Q	R	-

Connector No.	E159
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK



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

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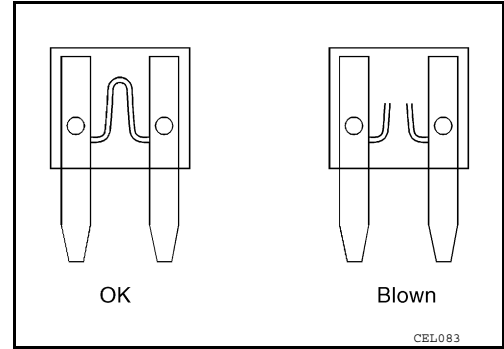
POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Fuse

INFOID:000000005282536

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



Fusible Link

INFOID:000000005282537

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

CAUTION:

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

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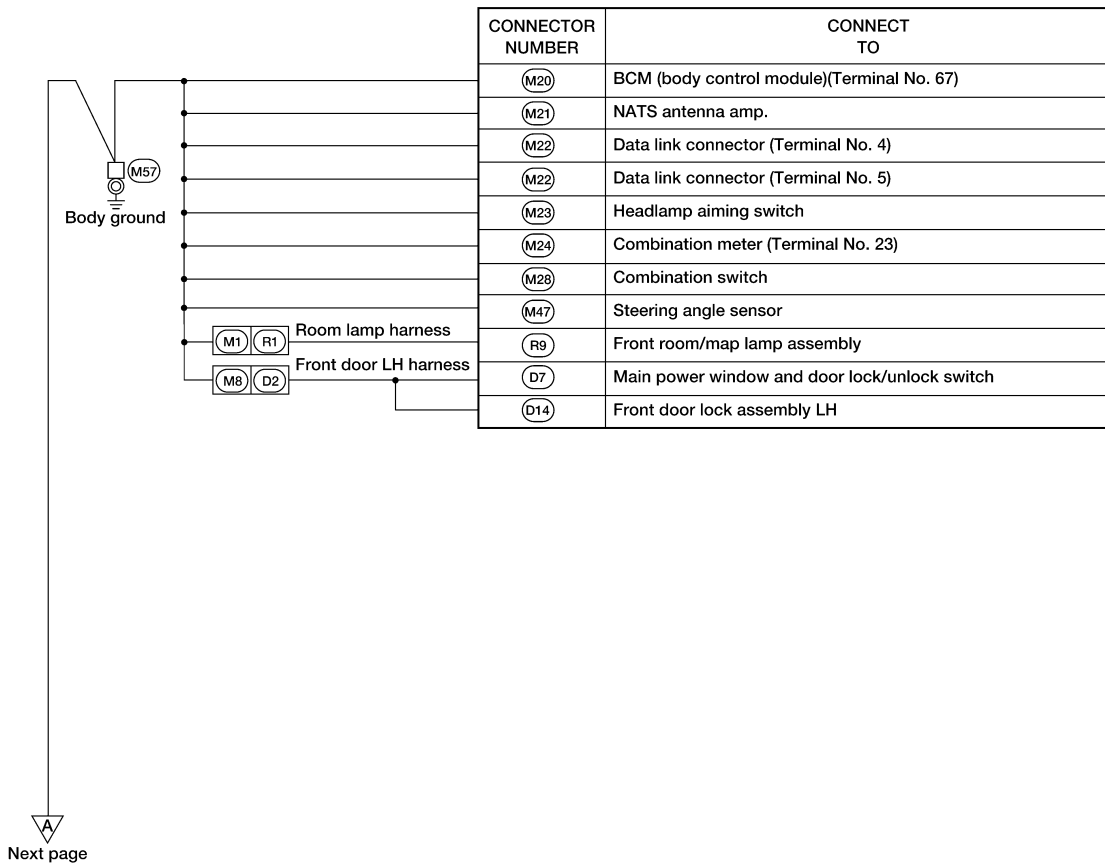
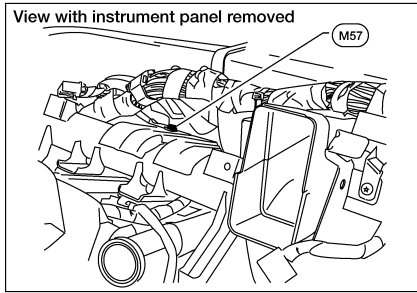
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GROUND

Ground Distribution

INFOID:000000005282538

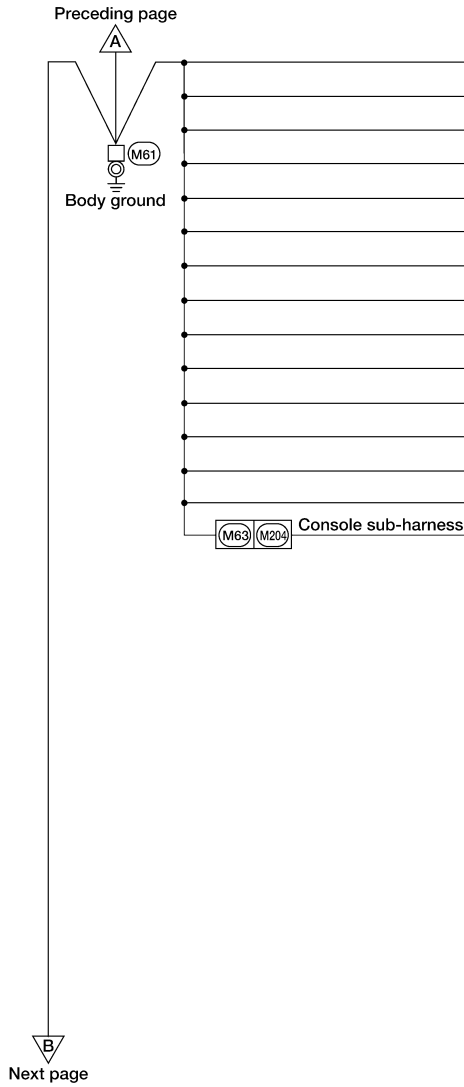
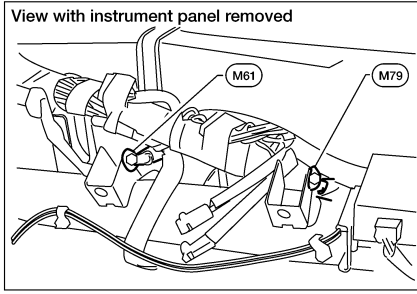
Main Harness



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GROUND

< COMPONENT DIAGNOSIS >



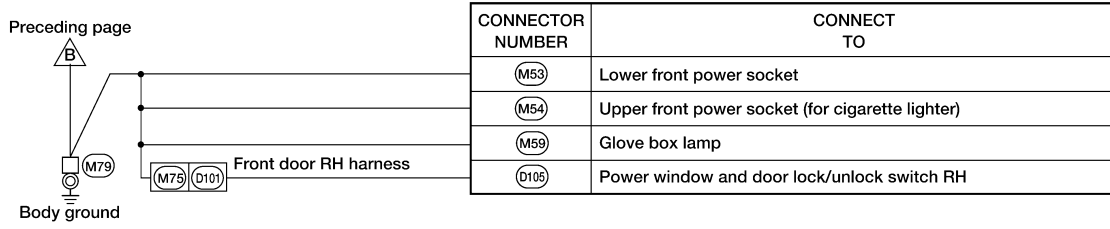
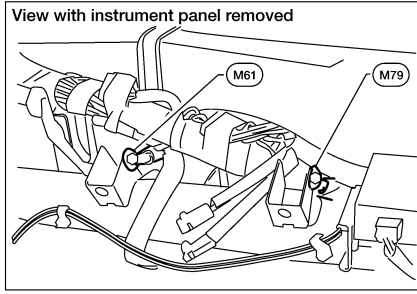
CONNECTOR NUMBER	CONNECT TO
M13	Front passenger air bag off indicator
M24	Combination meter (Terminal No. 13)
M35	Air bag diagnosis sensor unit (Terminal No. 2)
M49	Front air control (Terminal No. 13)
M55	Hazard switch
M121	Variable blower control (front)
M152	Transfer control unit (Terminal No. 6)
M152	Transfer control unit (Terminal No. 18)
M153	Transfer control unit (Terminal No. 32)
M154	VDC off switch
M156	A/T shift selector (Terminal No. 2)
M156	A/T shift selector (Terminal No. 8)
M156	A/T shift selector (Terminal No. 10)
M159	Door mirror remote control switch
M207	Console power socket

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GROUND

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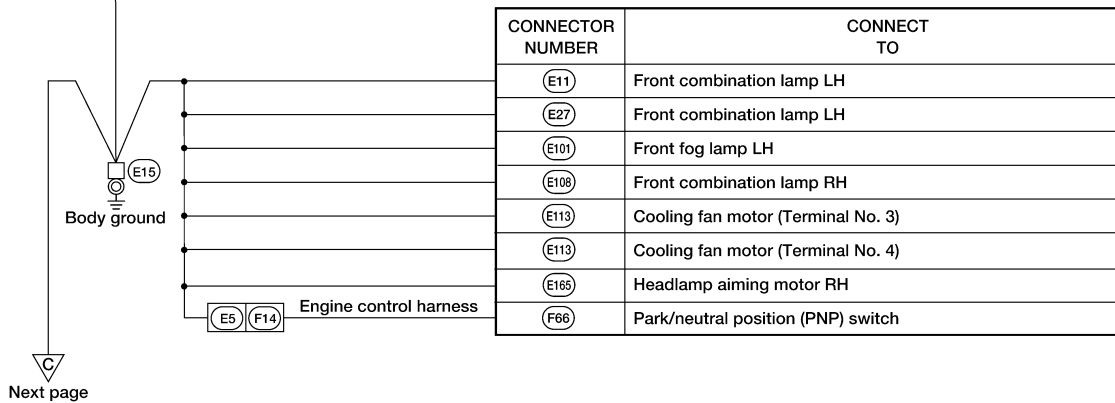
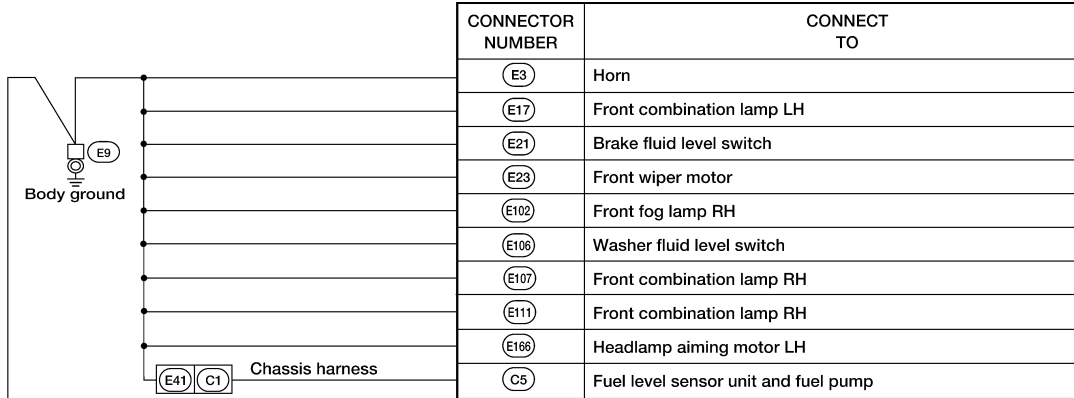
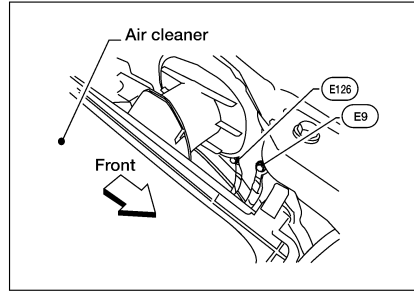
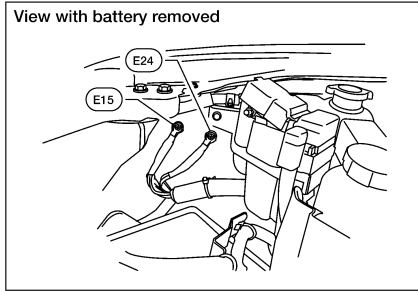


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GROUND

< COMPONENT DIAGNOSIS >

Engine Room Harness

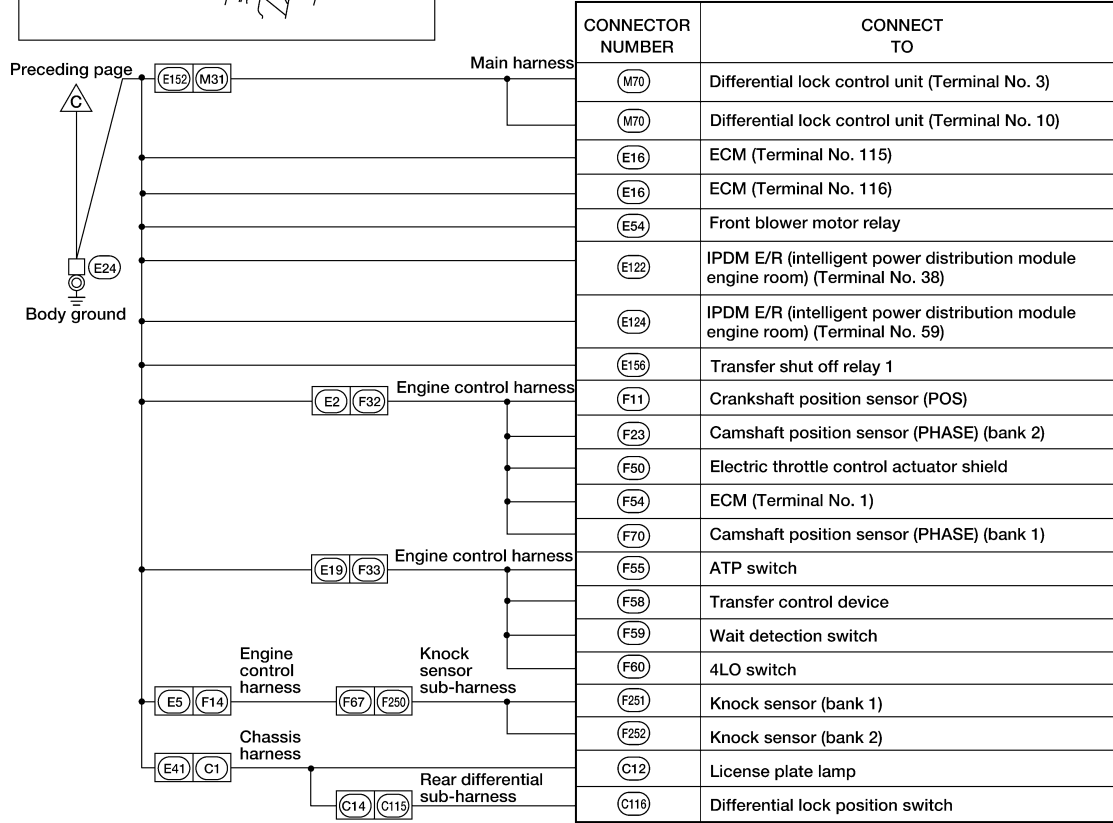
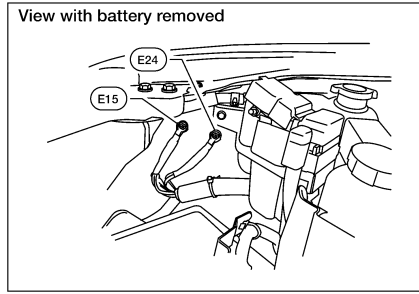


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GROUND

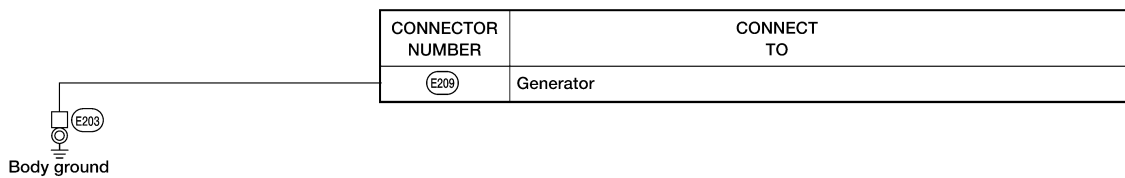
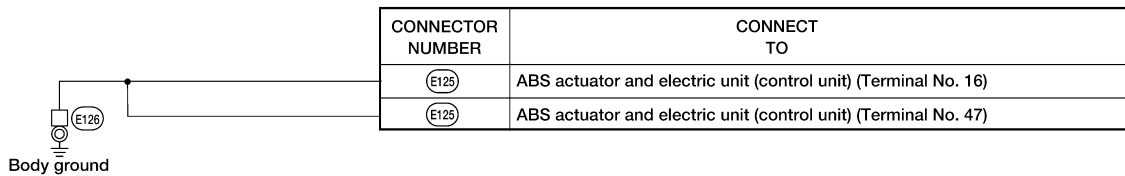
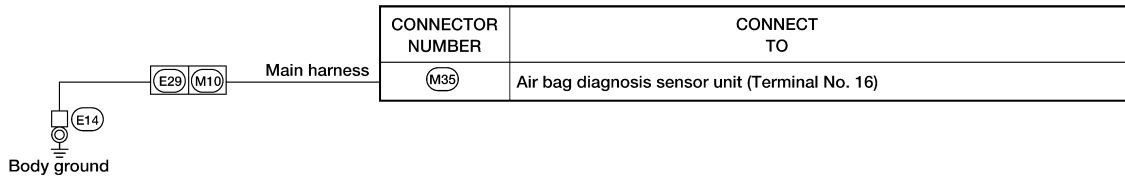
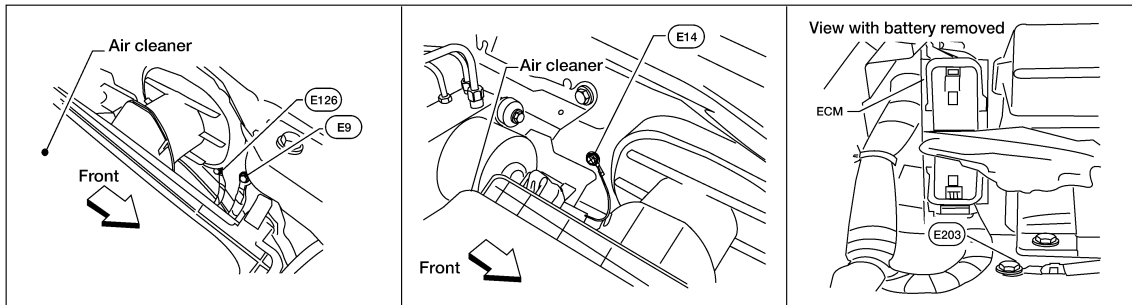
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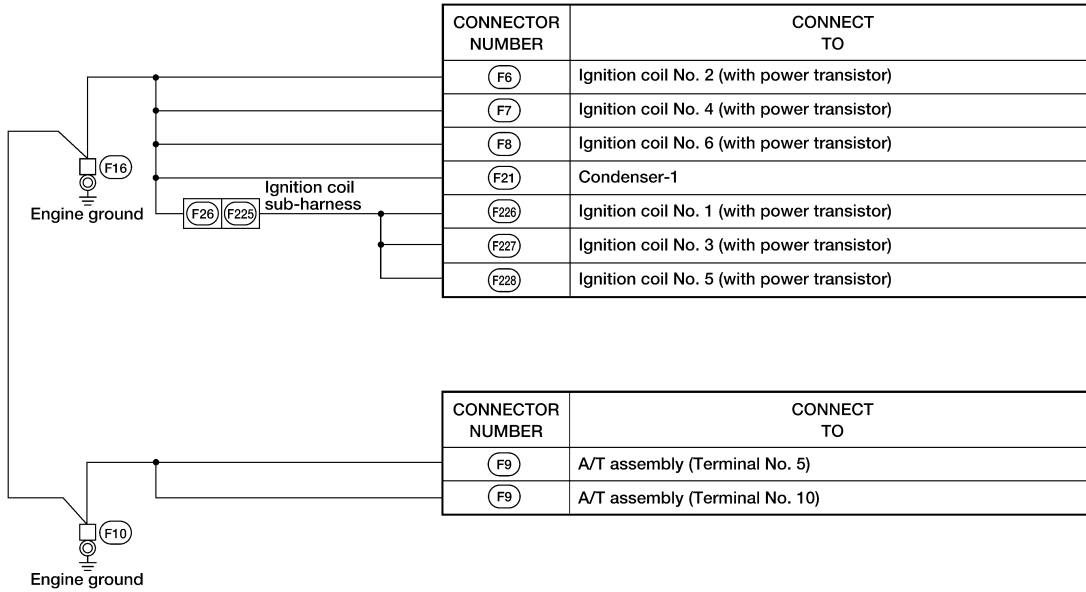
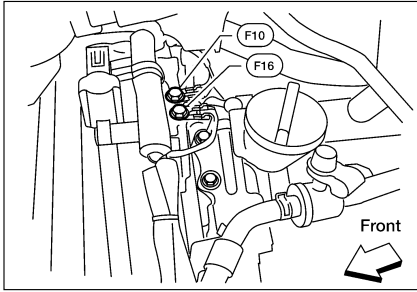
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GROUND

< COMPONENT DIAGNOSIS >

Engine Control Harness

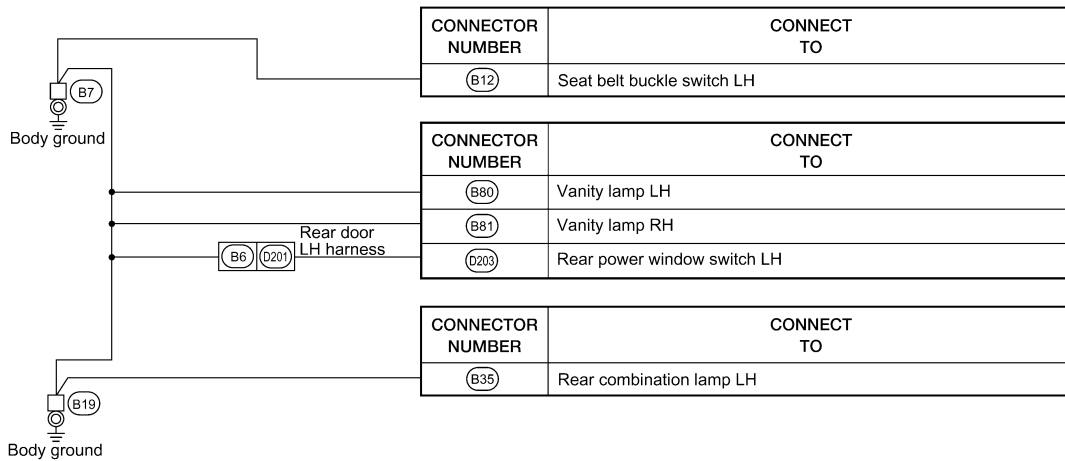
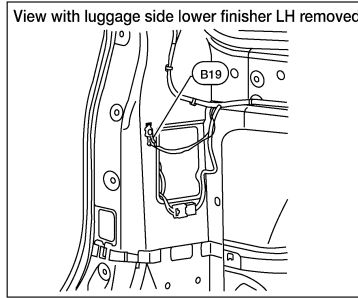
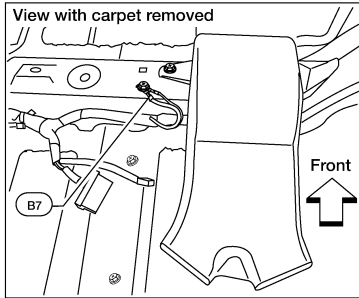


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GROUND

< COMPONENT DIAGNOSIS >

Body Harness



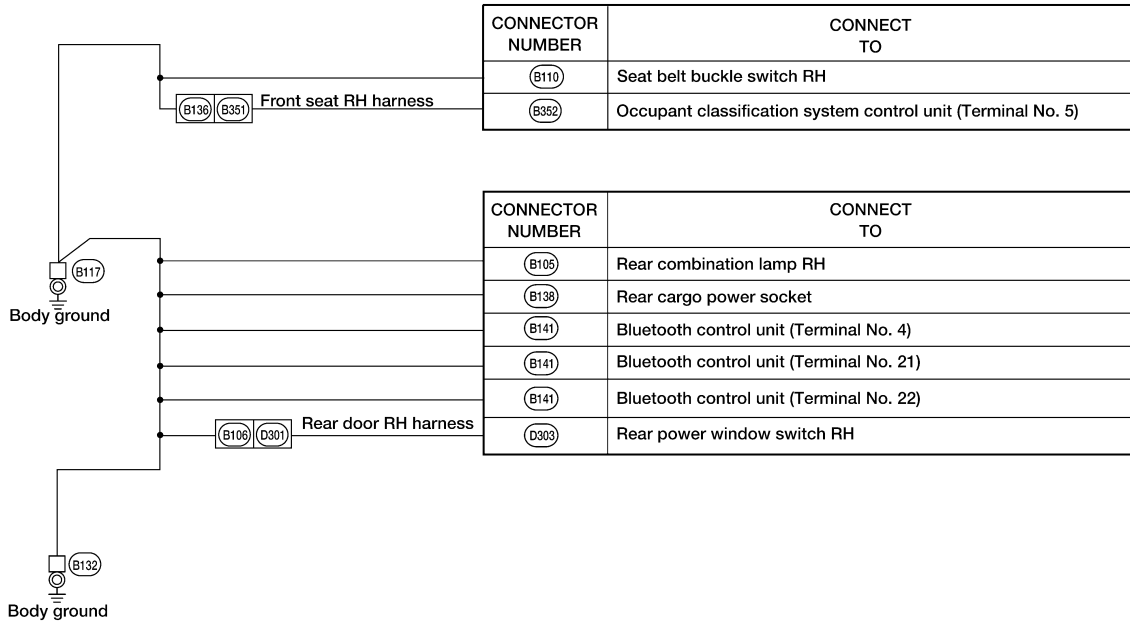
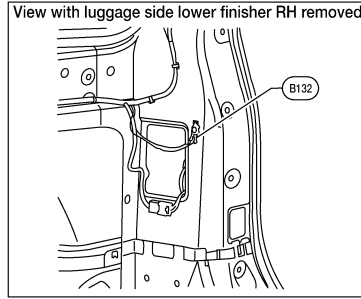
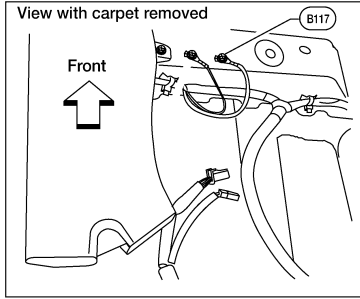
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< COMPONENT DIAGNOSIS >

Body No. 2 Harness

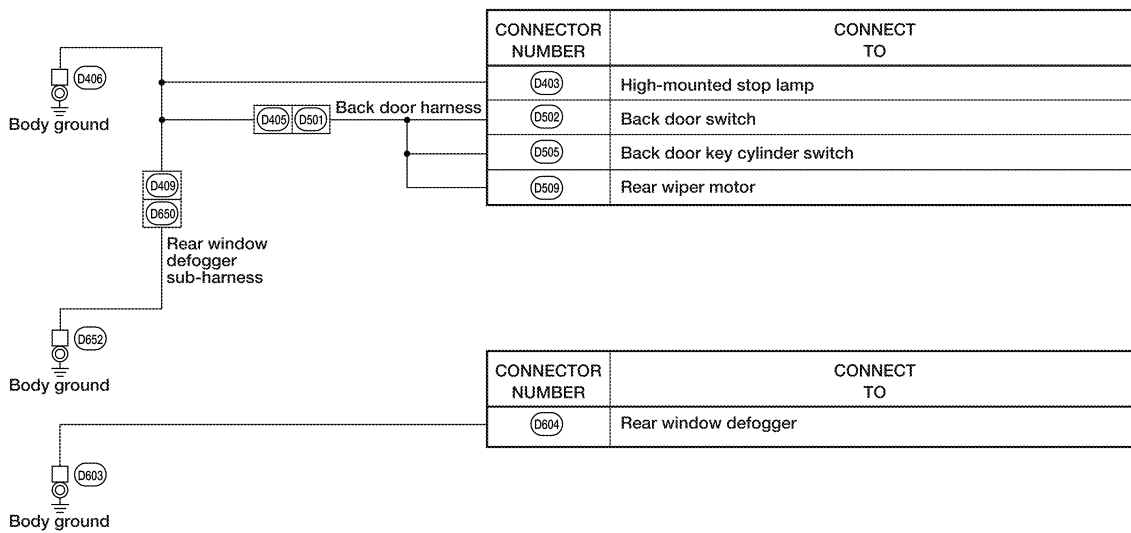
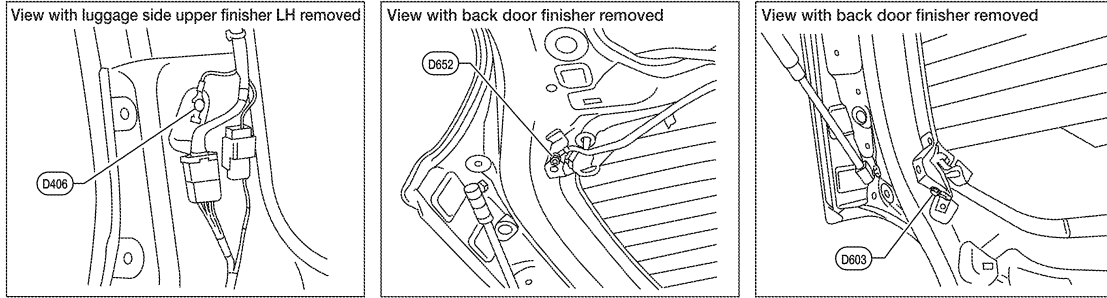


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GROUND

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Back Door No. 2 and Back Door Harness



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HARNESS

< COMPONENT DIAGNOSIS >

HARNESS

Harness Layout

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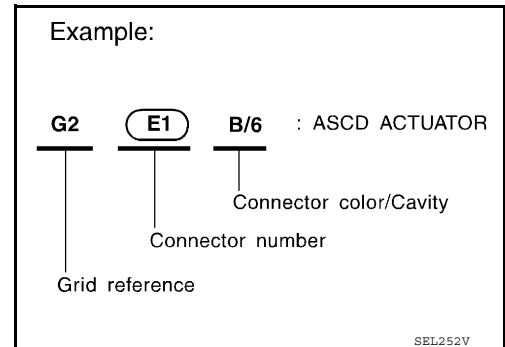
HOW TO READ HARNESS LAYOUT

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

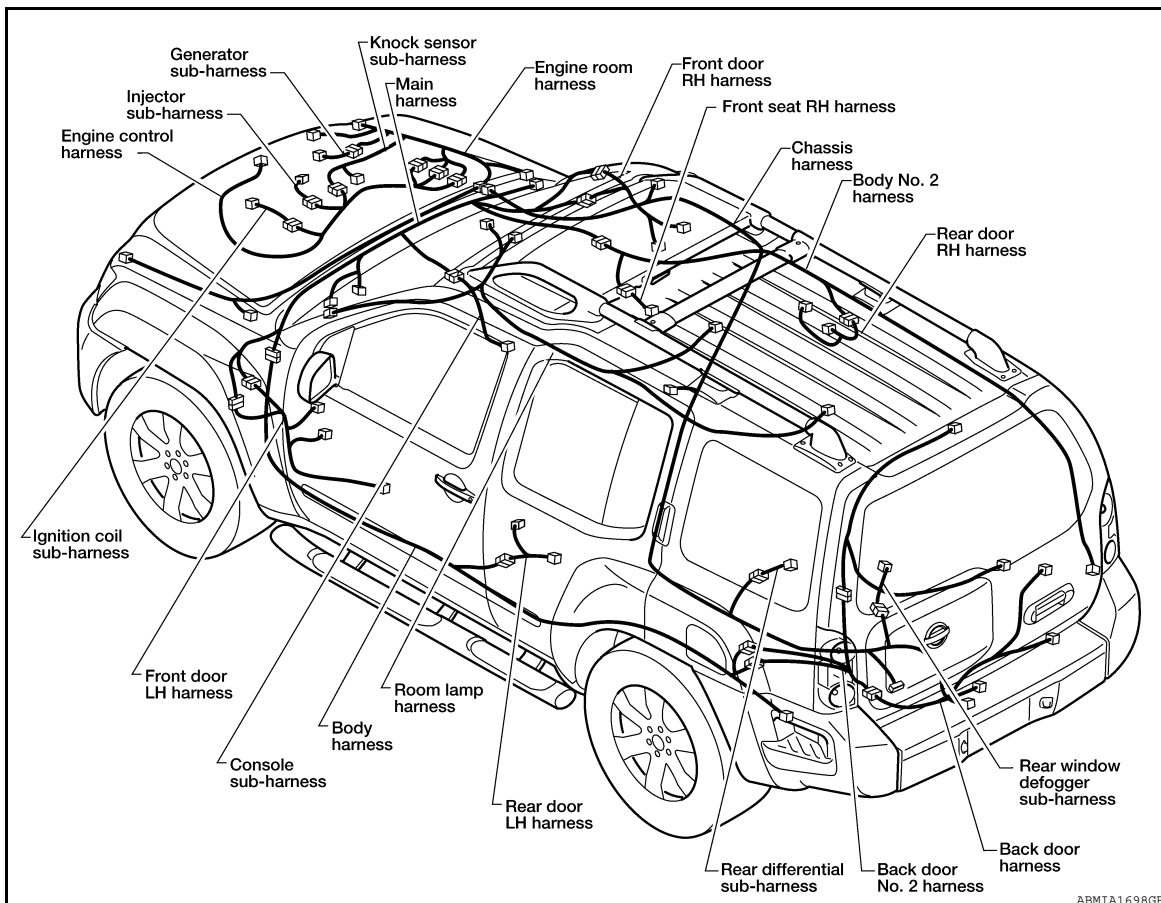
- Main Harness and console sub-harness
- Engine Room Harness (RH view) and Generator Sub-harness
- Engine Room Harness (Passenger Compartment)
Engine Room Harness (LH view)
- Engine Control Harness, Injector Sub-harness, Ignition Coil Sub-harness and Knock Sensor Sub-harness
- Chassis Harness and Rear Differential Sub-harness
- Body Harness
- Body No. 2 Harness and Front Seat LH Harness
- Room Lamp Harness
- Back Door No.2 Harness, Back Door Harness, and Rear Window Defogger Sub-harness

To use the grid reference

1. Find the desired connector number on the connector list.
2. Find the grid reference.
3. On the drawing, find the crossing of the grid reference letter column and number row.
4. Find the connector number in the crossing zone.
5. Follow the line (if used) to the connector.



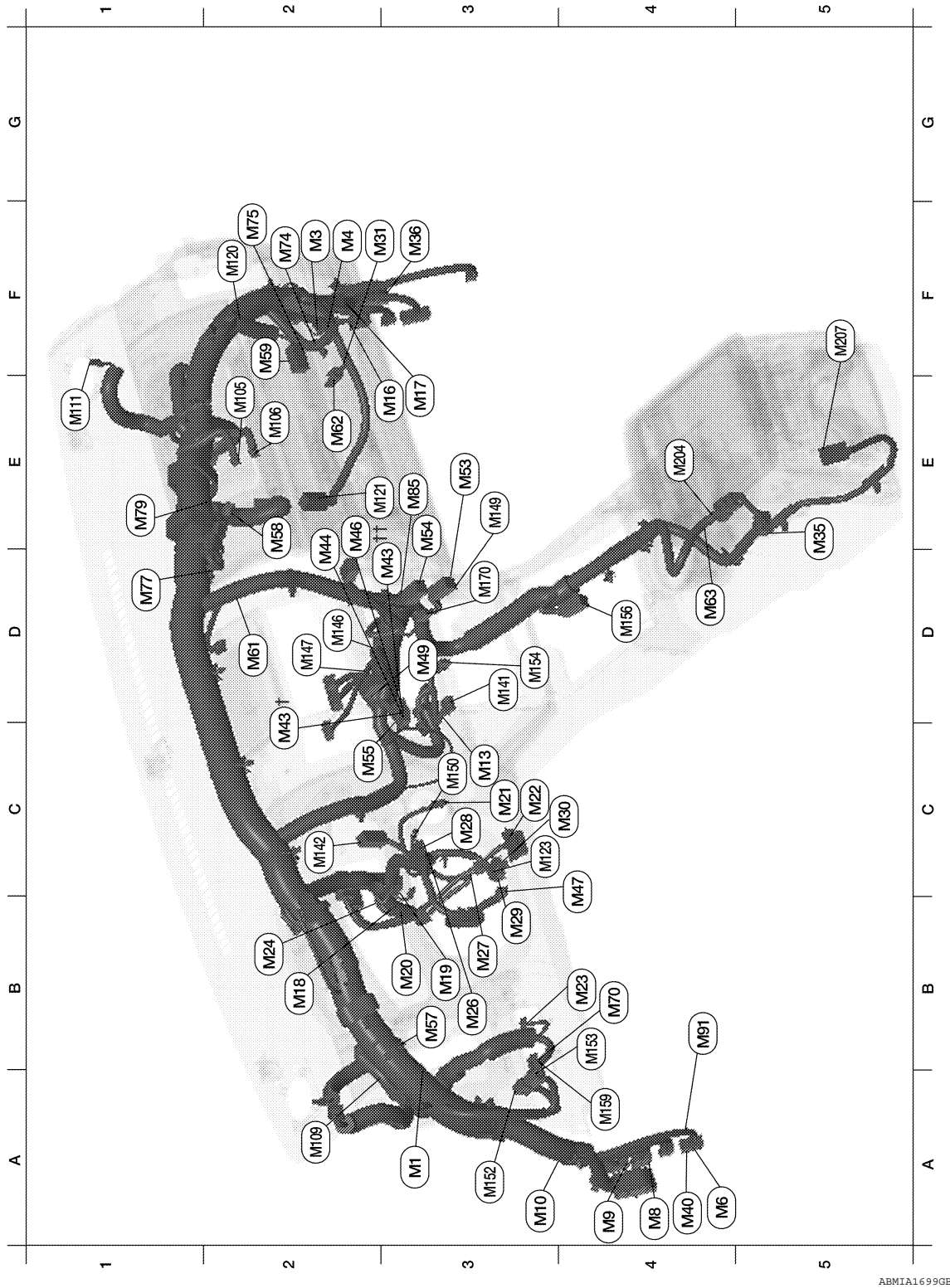
OUTLINE



HARNESS

< COMPONENT DIAGNOSIS >

MAIN HARNESS



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A3	M1	W/24	: To R1	B3	M57	—	: Body ground
F2	M3	W/8	: Fuse block (J/B)	E2	M58	B/6	: Intake door motor
F2	M4	W/16	: Fuse block (J/B)	F2	M59	BR/2	: Glove box lamp
A4	M6	W/6	: To E10	D2	M61	—	: Body ground

HARNESS

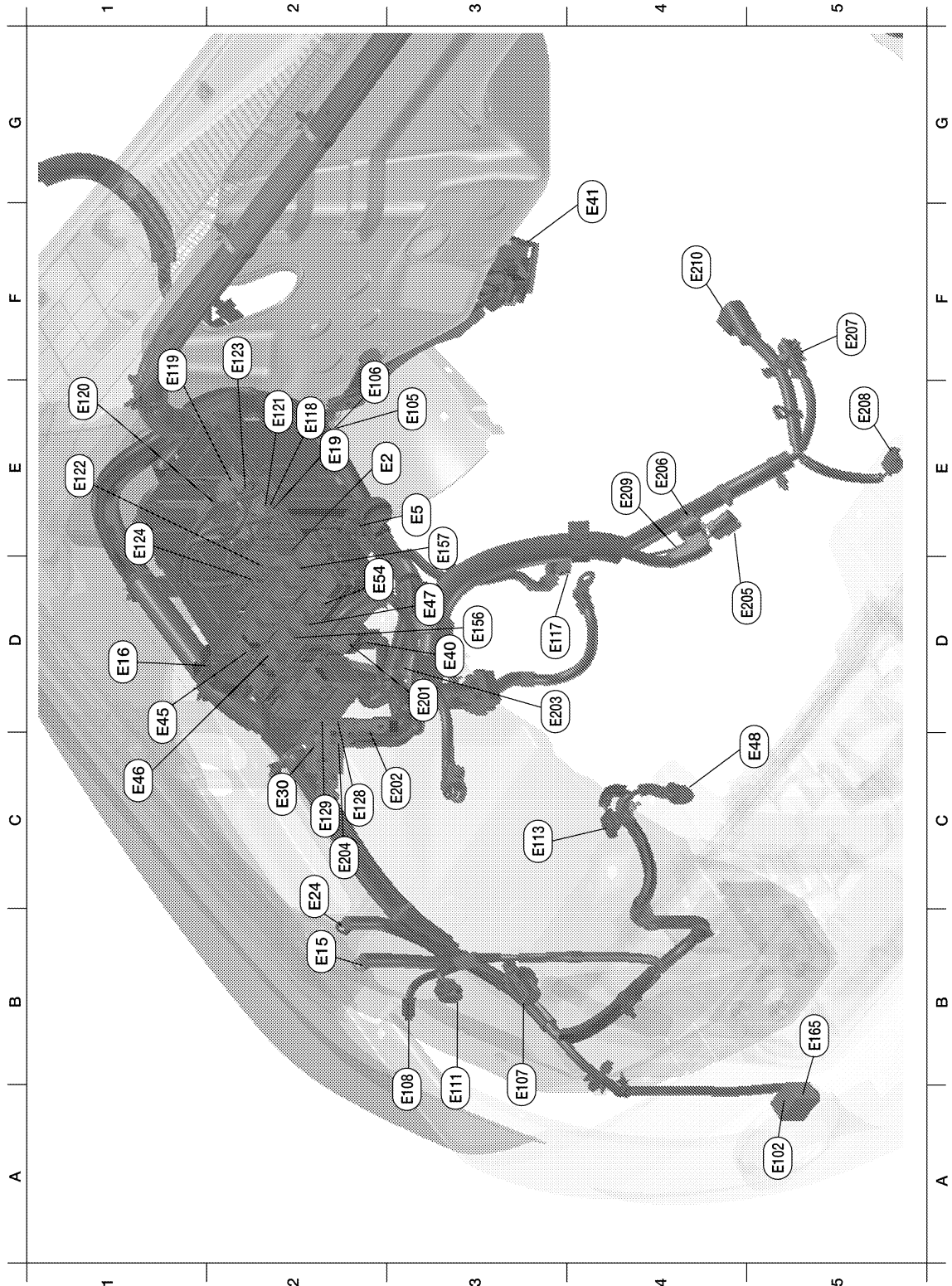
< COMPONENT DIAGNOSIS >

A4	M8	BR/12	: To D2	E2	M62	B/2	: Front blower motor
A4	M9	W/16	: To D1	D4	M63	W/6	: To M204
A3	M10	Y/4	: To E29	B4	M70	W/26	: Differential lock control unit
C3	M13	BR/3	: Front passenger air bag OFF indicator	F2	M74	BR/16	: To D102
E3	M16	W/12	: To B162	F2	M75	W/12	: To D101
E3	M17	W/16	: To B163	D1	M77	Y/4	: Front passenger air bag module (service replacement)
B2	M18	W/40	: BCM (body control module)	E1	M79	—	: Body ground
B3	M19	W/15	: BCM (body control module)	E3	M85	W/4	: Aux in jack
B3	M20	B/15	: BCM (body control module)	B4	M91	W/16	: To E26
C3	M21	W/4	: NATS antenna amp.	E2	M105	Y/2	: Front passenger air bag module
C3	M22	W/16	: Data link connector	E2	M106	O/2	: Front passenger air bag module
B4	M23	W/4	: Headlamp aiming switch	A2	M109	BR/2	: Front tweeter LH
B2	M24	W/40	: Combination meter	E1	M111	BR/2	: Front tweeter RH
B3	M26	W/6	: Ignition switch	F2	M120	W/4	: Remote keyless entry receiver
B3	M27	W/2	: Key switch	E3	M121	W/4	: Variable blower control (front)
C3	M28	W/16	: Combination switch	C4	M123	W/2	: Tire pressure warning check connector
B3	M29	Y/6	: Combination switch	D3	M141	GR/8	: 4WD shift switch
C4	M30	GR/8	: Combination switch	C2	M142	B/6	: Mode door motor
F3	M31	SMJ	: To E152	D2	M146	GR/2	: Intake sensor
E5	M35	Y/28	: Air bag diagnosis sensor unit	D2	M147	B/6	: Air mix door motor
F3	M36	SMJ	: To B149	E3	M149	W/6	: Differential lock mode switch
A4	M40	SMJ	: To B69	C3	M150	W/2	: Ignition keyhole illumination
E3	M43††	W/10	: Audio unit (premium audio system)	A3	M152	W/26	: Transfer control unit
E3	M43†	W/20	: Audio unit (base audio system)	B4	M153	W/24	: Transfer control unit
E2	M44	W/6	: Audio unit (premium audio system)	D3	M154	GR/6	: VDC off switch
E2	M46	W/16	: Audio unit (premium audio system)	D4	M156	W/10	: A/T shift selector
C4	M47	W/8	: Steering angle sensor	A4	M159	W/16	: Door mirror remote control switch
D3	M49	B/26	: Front air control	D3	M170	B/1	: Upper front power socket illumination
E3	M53	B/3	: Lower front power socket	Console sub-harness			
E3	M54	B/2	: Upper front power socket (for cigarette lighter)	E4	M204	W/6	: To M63
C2	M55	W/4	: Hazard switch	F5	M207	B/3	: Console power socket

HARNESS

< COMPONENT DIAGNOSIS >

ENGINE ROOM HARNESS (RH VIEW)



Refer to "ENGINE ROOM HARNESS (LH VIEW)" for continuation of engine room harness"

E3	E2	W/16	: To F32	F1	E119	W/16	: IPDM E/R (intelligent power distribution module engine room)
E3	E5	W/24	: To F14	E1	E120	W/6	: IPDM E/R (intelligent power distribution module engine room)

HARNESS

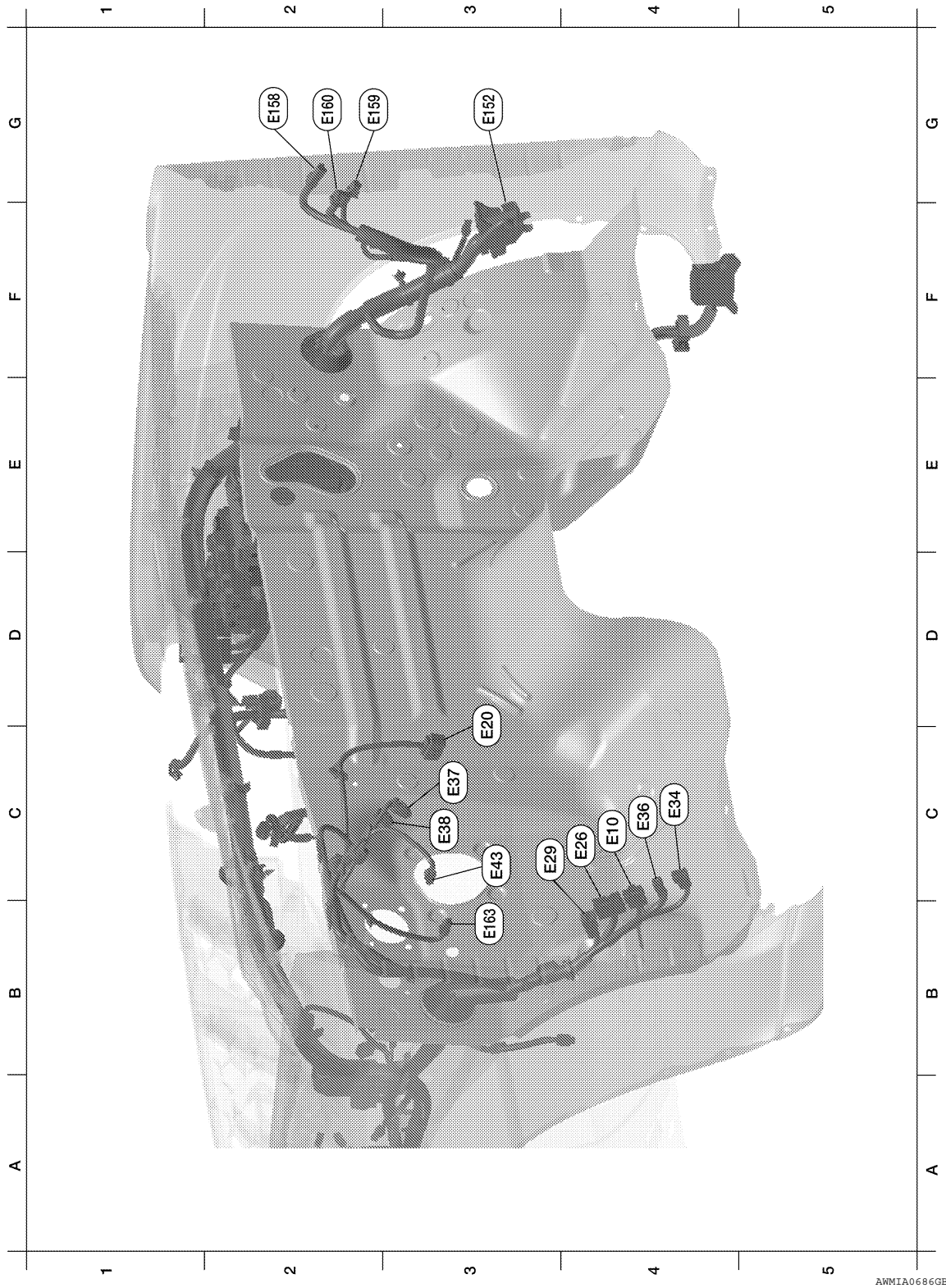
< COMPONENT DIAGNOSIS >

C2	E15	—	: Body ground	E1	E121	BR/12	: IPDM E/R (intelligent power distribution module engine room)
D1	E16	B/40	: ECM	E1	E122	W/12	: IPDM E/R (intelligent power distribution module engine room)
E2	E19	W/16	: To F33	F2	E123	BR/8	: IPDM E/R (intelligent power distribution module engine room)
D4	E24	—	: Body ground	E1	E124	B/6	: IPDM E/R (intelligent power distribution module engine room)
C2	E30	—	: Fusible link box (battery)	C2	E128	GR/2	: Fusible link box (battery)
D3	E40	GR/9	: To E201	C2	E129	B/2	: Fusible link box (battery)
G4	E41	SMJ	: To C1	D3	E156	L/4	: Transfer shut off relay 1
D1	E45	BR/6	: Back-up lamp relay	D3	E157	L/4	: Transfer shut off relay 2
C1	E46	B/5	: Transfer shift high relay	B5	E165	GR/3	: Headlamp aiming motor RH
D3	E47	B/5	: Transfer shift low relay	Generator sub-harness			
C5	E48	B/3	: Refrigerant pressure sensor	D3	E201	GR/9	: To E40
D2	E54	BR/6	: Front blower motor relay	C3	E202	B/1	: Fusible link box (battery)
A5	E102	B/2	: Front fog lamp RH	C3	E203	—	: Body ground
F3	E105	B/2	: Front and rear washer motor	C2	E204	—	: Fusible link box (battery)
F2	E106	BR/2	: Washer fluid level switch	D5	E205	B/3	: Generator
A3	E107	B/3	: Front combination lamp RH	C3	E206	—	: Generator
A3	E108	GR/2	: Front combination lamp RH	F5	E207	GR/1	: Starter motor
A3	E111	GR/3	: Front combination lamp RH	E5	E208	GR/1	: Oil pressure switch
C3	E113	GR/4	: Cooling fan motor	E4	E209	—	: Generator
D3	E117	GR/2	: Front wheel sensor RH	F4	E210	—	: Starter motor
E2	E118	B/2	: IPDM E/R (intelligent power distribution module engine room)				

HARNESS

< COMPONENT DIAGNOSIS >

ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



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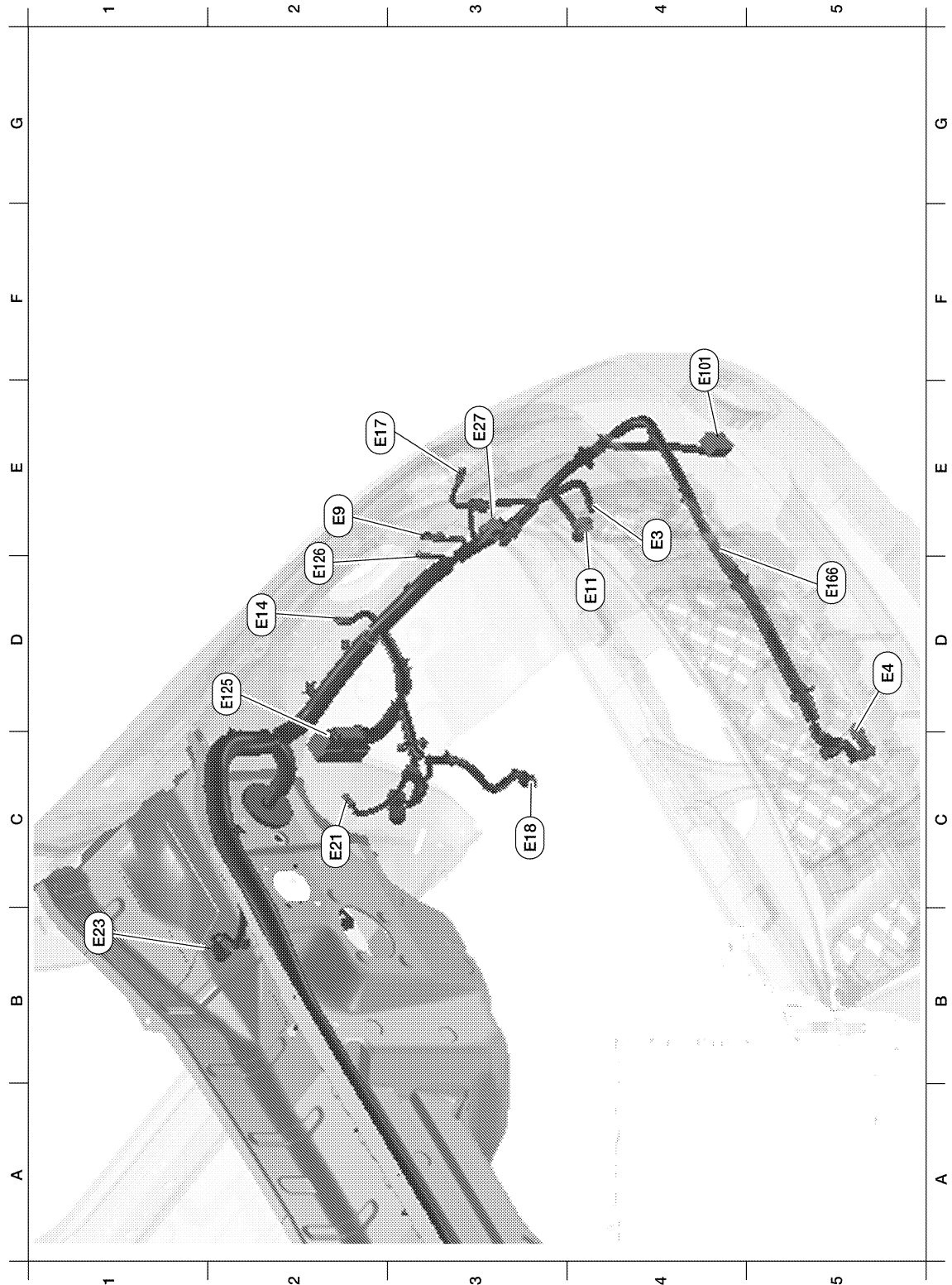
C4	E10	W/6	: To M6	C3	E38	W/4	: Stop lamp switch (with A/T)
D3	E20	B/6	: Accelerator pedal position (APP) sensor	C3	E43	L/2	: ASCD clutch switch
C4	E26	W/16	: To M91	G3	E152	SMJ	: To M31
C3	E29	Y/4	: To M10	G2	E158	B/1	: Fuse block (J/B)

HARNESS

< COMPONENT DIAGNOSIS >

C4	E34	W/8	: To B40	G2	E159	B/2	: Fuse block (J/B)
C4	E36	W/2	: To B42	G2	E160	W/8	: Fuse block (J/B)
C3	E37	BR/2	: ASCD brake switch	B3	E163	L/2	: Clutch interlock switch
C3	E38	B/2	: Stop lamp switch (with M/T)				

ENGINE ROOM HARNESS (LH VIEW)



Refer to "ENGINE ROOM HARNESS (RH VIEW)" for continuation of engine room harness"

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HARNESS

< COMPONENT DIAGNOSIS >

E4	E3	B/2	: Horn	C2	E21	GR/2	: Brake fluid level switch	A
D5	E4	Y/2	: Crash zone sensor	B1	E23	GR/5	: Front wiper motor	
E2	E9	—	: Body ground	E3	E27	GR/3	: Front combination lamp LH	B
D4	E11	B/3	: Front combination lamp LH	F5	E101	B/2	: Front fog lamp LH	
D2	E14	—	: Body ground	C1	E125	B/47	: ABS actuator and electric unit (control unit)	C
F2	E17	GR/2	: Front combination lamp LH	E2	E126	—	: Body ground	
B4	E18	GR/2	: Front wheel sensor LH	E4	E166	GR/3	: Headlamp aiming motor LH	D

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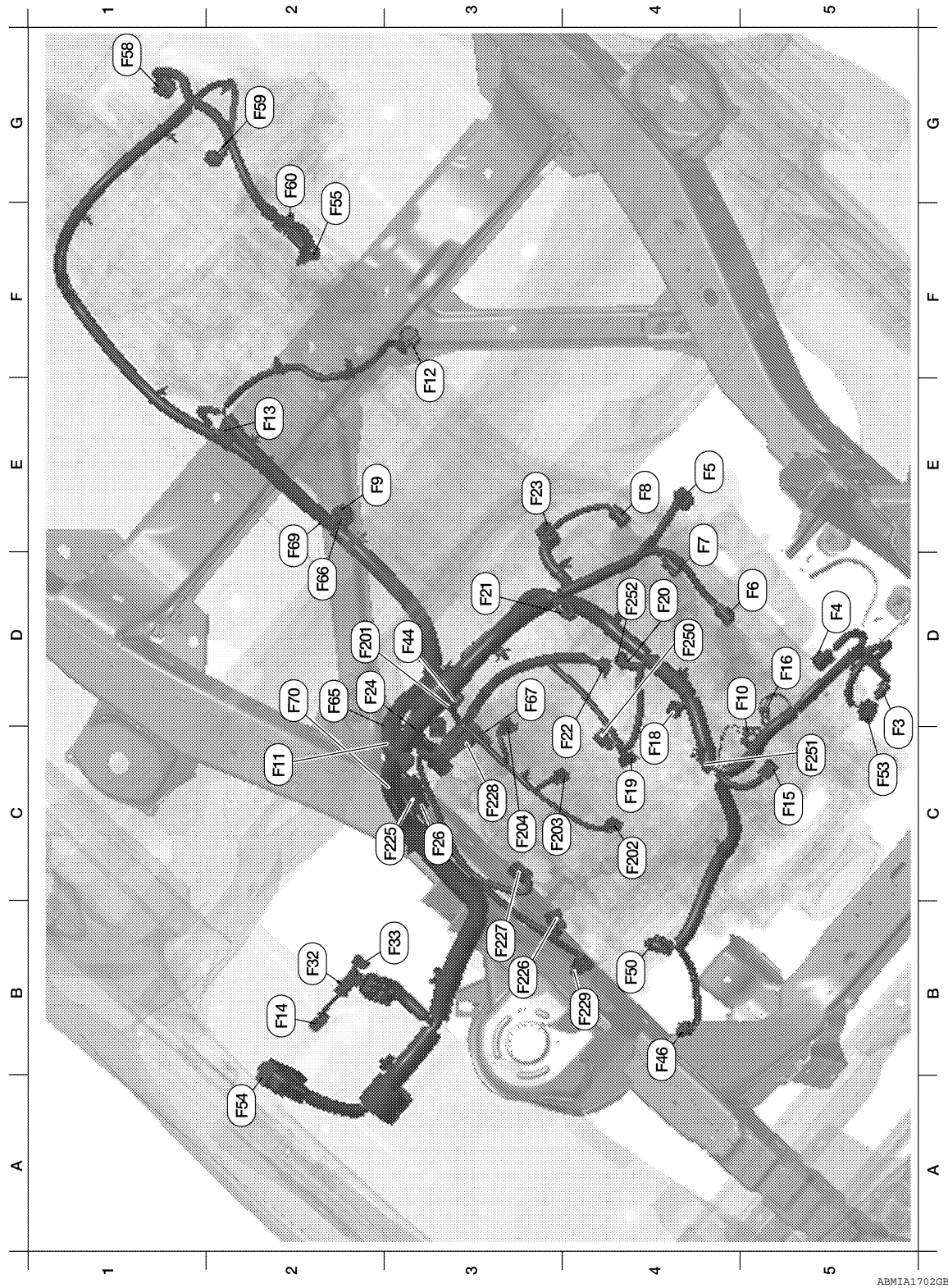
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HARNESS

< COMPONENT DIAGNOSIS > ENGINE CONTROL HARNESS



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C5	F3	B/1	: A/C Compressor	C5	F53	B/6	: Mass air flow sensor
D5	F4	G/2	: Intake valve timing control solenoid valve (bank 2)	A2	F54	B/81	: ECM
E4	F5	GR/6	: Air fuel ratio (A/F) sensor 1 (bank 2)	F2	F55	B/2	: ATP switch
D5	F6	GR/3	: Ignition coil No. 2 (with power transistor)	G1	F58	B/8	: Transfer control device
E4	F7	GR/3	: Ignition coil No. 4 (with power transistor)	G2	F59	GR/2	: Wait detection switch

HARNESS

< COMPONENT DIAGNOSIS >

E4	F8	GR/3	: Ignition coil No. 6 (with power transistor)	G2	F60	GR/2	: 4LO switch
F4	F9	G/10	: A/T assembly	D2	F65	GR/6	: Air fuel ratio (A/F) sensor 1 (bank 1)
C5	F10	—	: Engine ground	D2	F66	B/2	: Park neutral position (PNP) switch
C2	F11	B/3	: Crankshaft position sensor (POS)	D3	F67	L/4	: To F250
F3	F12	G/4	: Heated oxygen sensor 2 (bank 2)	E2	F69	W/2	: Back-up lamp switch
E2	F13	L/4	: Heated oxygen sensor 2 (bank 1)	D2	F70	G/3	: Camshaft position sensor (PHASE)(bank1)
B2	F14	W/24	: To E5	Injector sub-harness			
C5	F15	L/2	: EVAP canister purge volume control solenoid valve	D2	F201	G/4	: To F44
D5	F16	—	: Engine ground	C4	F202	GR/2	: Fuel injector No. 1
C4	F18	GR/2	: Fuel injector No. 2	C3	F203	GR/2	: Fuel injector No. 3
C4	F19	B/2	: VIAS control solenoid valve	C3	F204	GR/2	: Fuel injector No. 5
D4	F20	GR/2	: Fuel injector No. 4	Ignition coil sub-harness			
D3	F21	W/2	: Condenser-1	C3	F225	G/8	: To F26
C4	F22	GR/2	: Fuel injector No. 6	B3	F226	GR/3	: Ignition coil No.1 (with power transistor)
E3	F23	B/3	: Camshaft position sensor (PHASE) (bank 2)	B3	F227	GR/3	: Ignition coil No. 3 (with power transistor)
D2	F24	GR/2	: Engine coolant temperature sensor	C3	F228	GR/3	: Ignition coil No. 5 (with power transistor)
C3	F26	G/8	: To F125	B4	F229	G/2	: Intake valve timing control solenoid valve (bank 1)
B2	F32	W/16	: To E2	Knock sensor sub-harness			
B3	F33	W/16	: To E19	D4	F250	L/4	: To F67
D3	F44	G/4	: To F201	C5	F251	B/2	: Knock sensor (bank 1)
B4	F46	B/3	: Power steering pressure sensor	D4	F252	B/2	: Knock sensor (bank 2)
B4	F50	B/6	: Electric throttle control actuator				

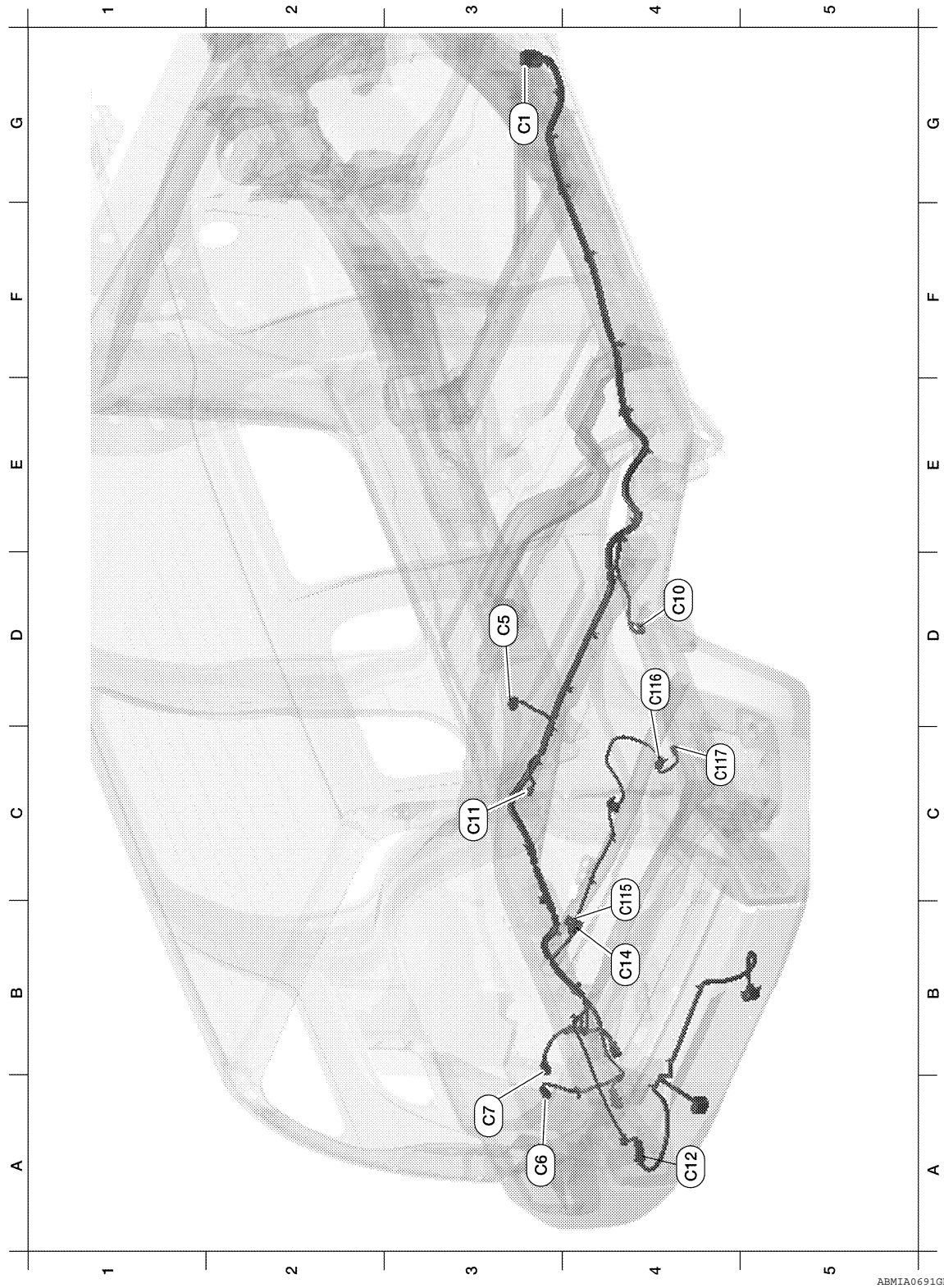
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HARNESS

< COMPONENT DIAGNOSIS >

CHASSIS HARNESS



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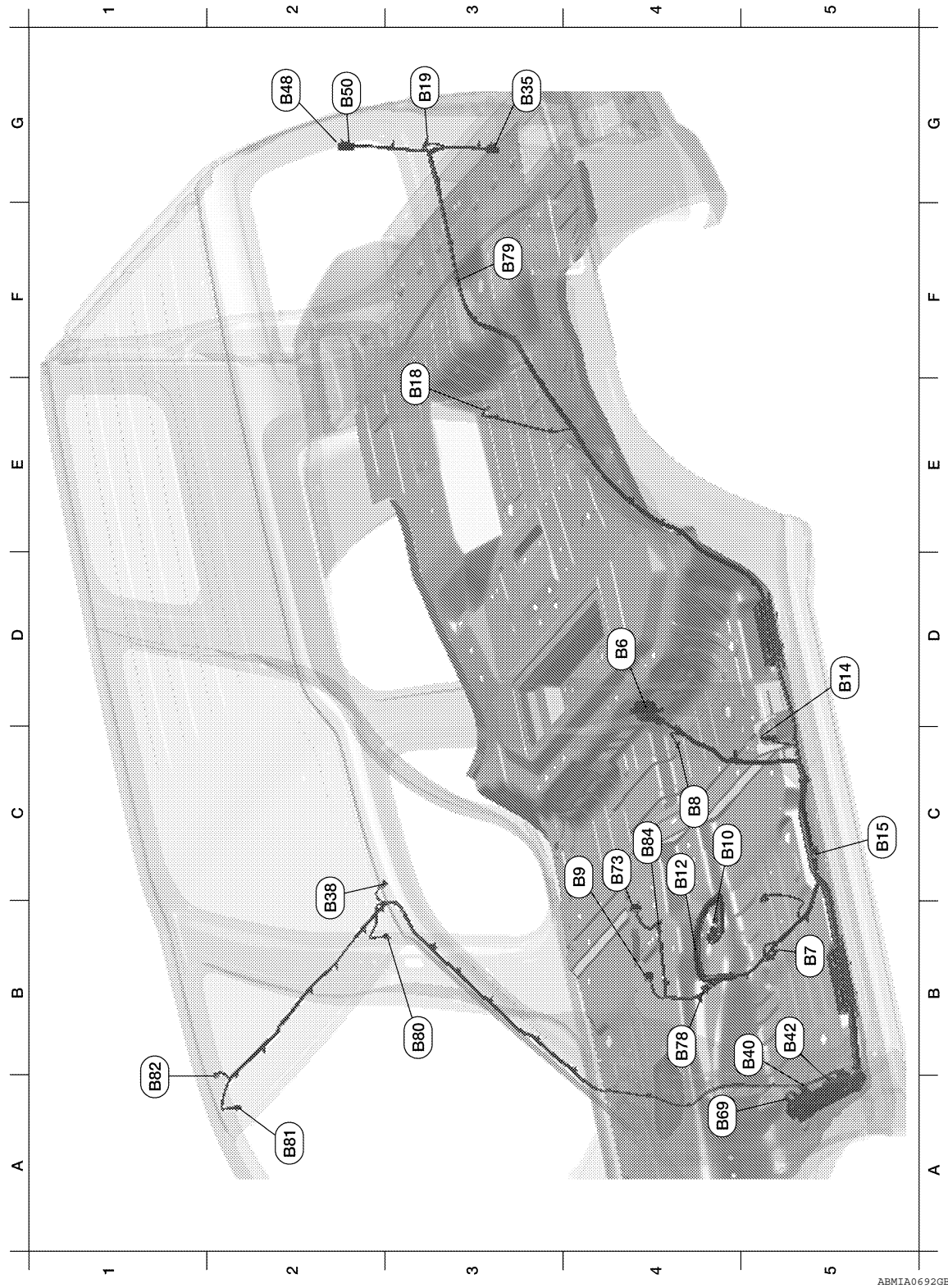
G3	C1	SMJ	: To E41	A4	C12	W/2	: License plate lamp
D3	C5	GR/5	: Fuel level sensor unit and fuel pump	B4	C14	GR/4	: To C115
A3	C6	B/2	: EVAP canister vent control valve	Rear differential sub-harness			
A3	C7	GR/3	: EVAP control system pressure sensor	C4	C115	GR/4	: To C14

HARNESS

< COMPONENT DIAGNOSIS >

D4	C10	GR/2	: Rear wheel sensor RH	D4	C116	GR/2	: Differential lock position switch
C3	C11	BR/2	: Rear wheel sensor LH	C4	C117	B/2	: Differential lock solenoid

BODY HARNESS



D4	B6	W/12	: To D201	B5	B40	W/8	: To E34
B5	B7	—	: Body ground	B5	B42	W/2	: To E36
C4	B8	W/3	: Front door switch LH	G2	B48	W/8	: To D402

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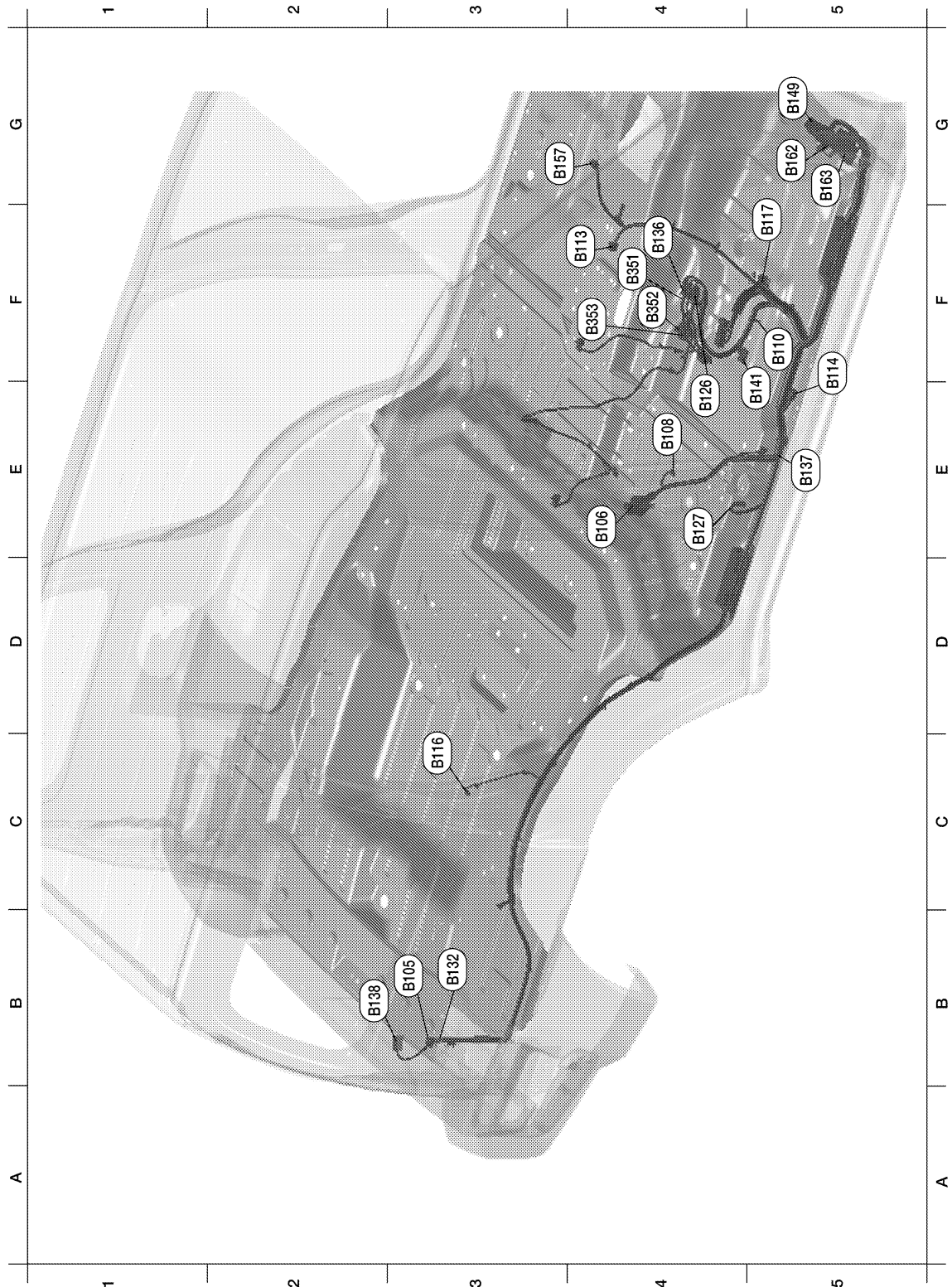
< COMPONENT DIAGNOSIS >

C4	B9	Y/12	: Air bag diagnosis sensor unit	G2	B50	W/2	: To D410
C4	B10	Y/2	: Front LH side air bag module	A4	B69	SMJ	: To M40
C4	B12	W/3	: Seat belt buckle switch LH	C4	B73	B/6	: Yaw rate/side/decel G sensor
D5	B14	Y/2	: Front LH seat belt pre-tensioner	B4	B78	Y/2	: To B157
C5	B15	Y/2	: LH side air bag (satellite) sensor	F3	B79	W/4	: Fuel lid door lock actuator
E3	B18	W/3	: Rear door switch LH	B3	B80	W/2	: Vanity lamp LH
G3	B19	—	: Body ground	A2	B81	W/2	: Vanity lamp RH
G3	B35	W/6	: Rear combination lamp LH	A1	B82	Y/2	: RH side front curtain air bag module
C2	B38	Y/2	: LH side front curtain air bag module	C4	B84	B/1	: Parking brake switch

HARNESS

< COMPONENT DIAGNOSIS >

BODY NO. 2 HARNESS



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B3	B105	W/6	: Rear combination lamp RH	E5	B137	W/3	: Belt tension sensor
E4	B106	W/12	: To D301	B2	B138	B/3	: Rear cargo power socket
E4	B108	W/3	: Front door switch RH	E5	B141	W/32	: Bluetooth control unit
F5	B110	W/3	: Seat belt buckle switch RH	G5	B149	SMJ	: To M36
F4	B113	Y/12	: Air bag diagnosis sensor unit	G3	B157	Y/2	: To B78

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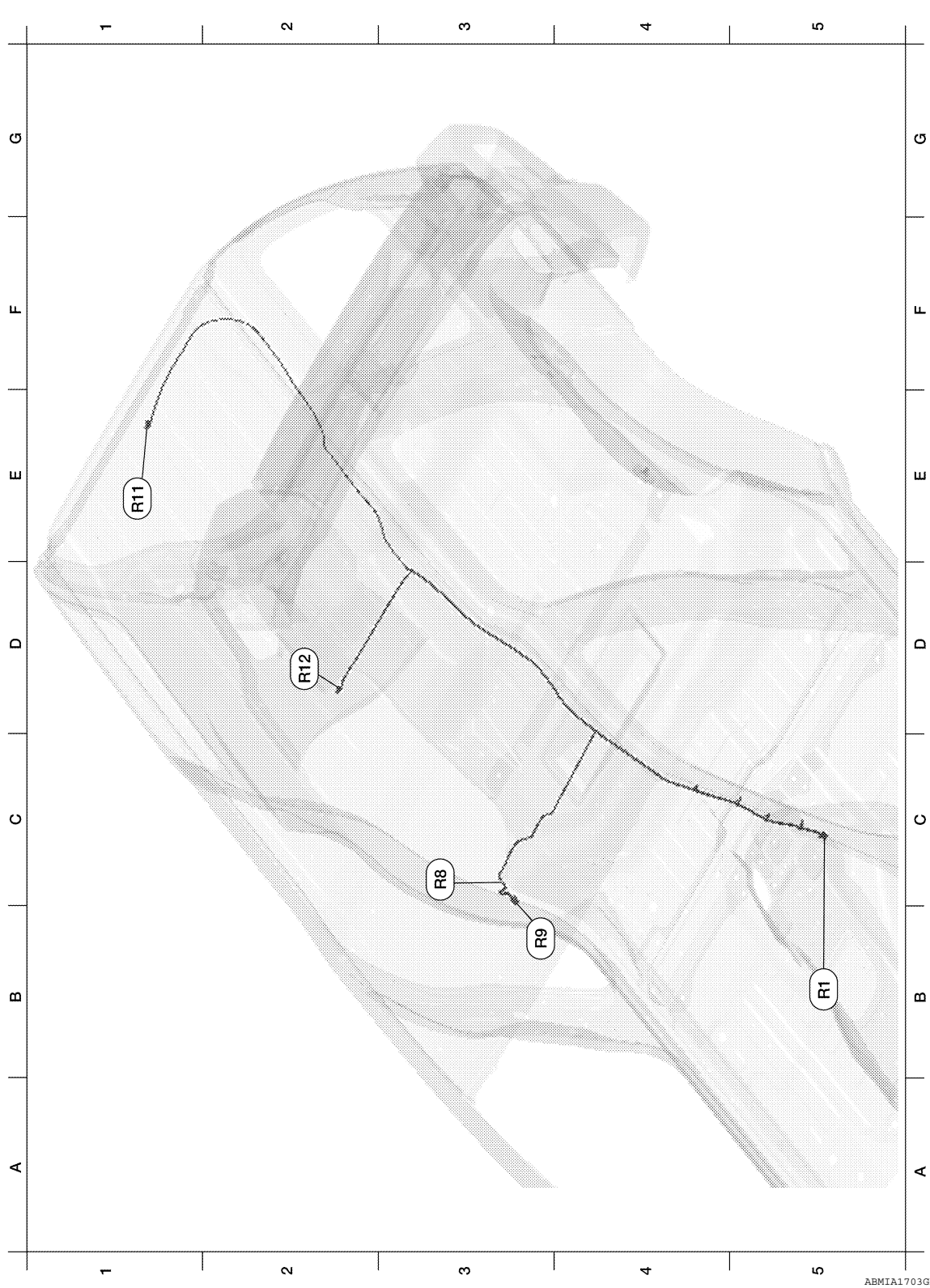
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F5	B114	Y/2	: RH side air bag (satellite) sensor	G5	B162	W/12	: To M16
C3	B116	W/3	: Rear door switch RH	G5	B163	W/16	: To M17
F5	B117	—	: Body ground	Front seat RH harness			
E4	B126	Y/2	: Front RH side air bag module	F4	B351	W/8	: To B136
E4	B127	Y/2	: Front RH seat belt pre-tensioner	F4	B352	B/18	: Occupant classification system control unit
B3	B132	—	: Body ground	F4	B353	B/3	: Occupant classification system sensor
F4	B136	W/8	: To B351				

HARNESS

< COMPONENT DIAGNOSIS >

ROOM LAMP HARNESS



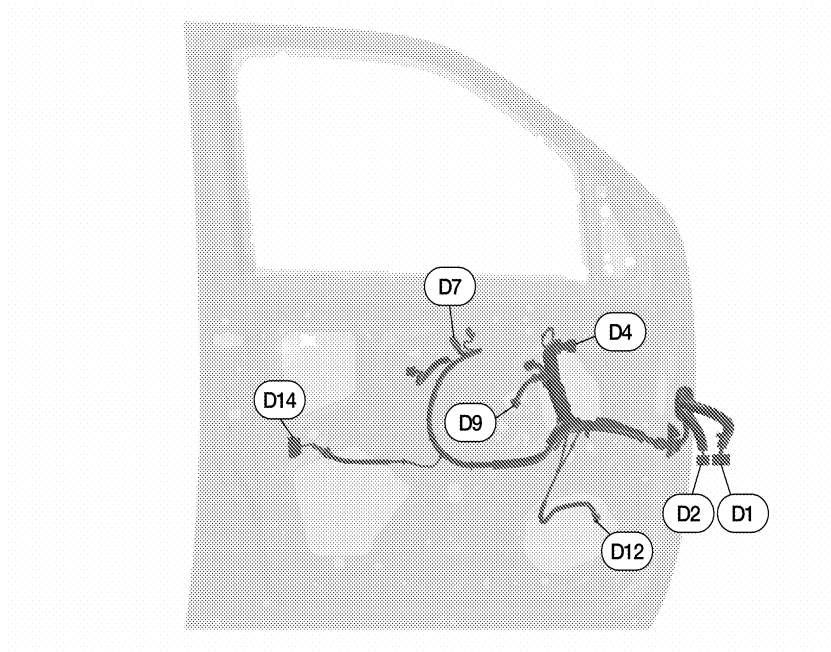
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B5	R1	W/24	: To M1	E1	R11	W/2	: Cargo lamp
C3	R8	W/4	: Microphone	D2	R12	W/2	: Room lamp 2nd row
B3	R9	W/3	: Front room/map lamp assembly				

HARNESS

< COMPONENT DIAGNOSIS >

FRONT DOOR LH HARNESS



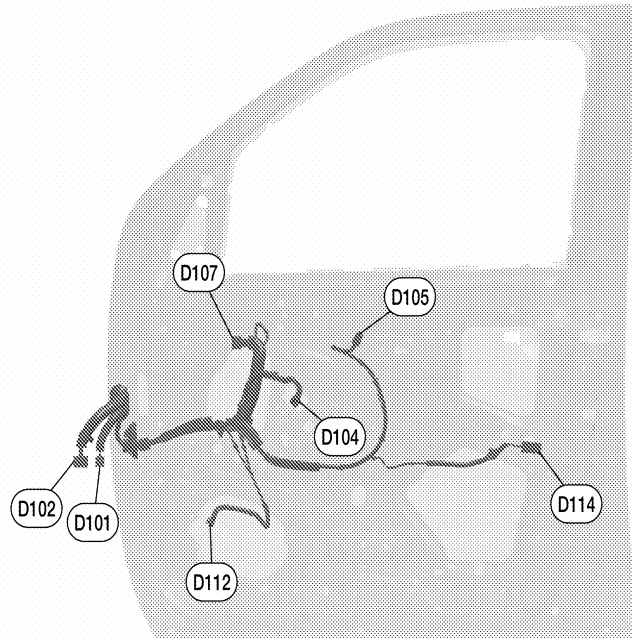
WKIA3986E

D1	W/16	: To M9	D9	BR/2	: Front power window motor LH
D2	BR/12	: To M8	D12	W/2	: Front door speaker LH
D4	B/3	: Door mirror LH	D14	GR/6	: Front door lock assembly LH
D7	W/16	: Main power window and door lock/unlock switch			

HARNESS

< COMPONENT DIAGNOSIS >

FRONT DOOR RH HARNESS



WKIA3987E

D101	W/12	: To M75	D107	B/3	: Door mirror RH
D102	W/16	: To M74	D112	W/2	: Front door speaker RH
D104	BR/2	: Front power window motor RH	D114	W/2	: Front door lock actuator RH
D105	W/12	: Power window and door lock/unlock switch RH			

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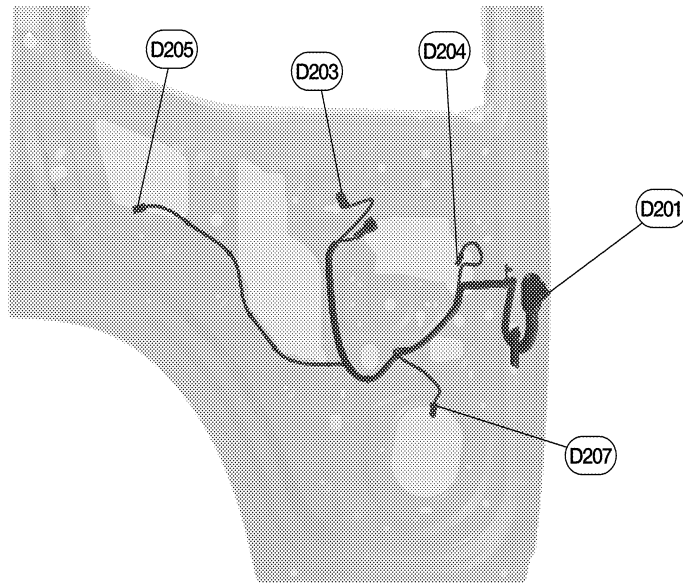
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HARNESS

< COMPONENT DIAGNOSIS >

REAR DOOR LH HARNESS



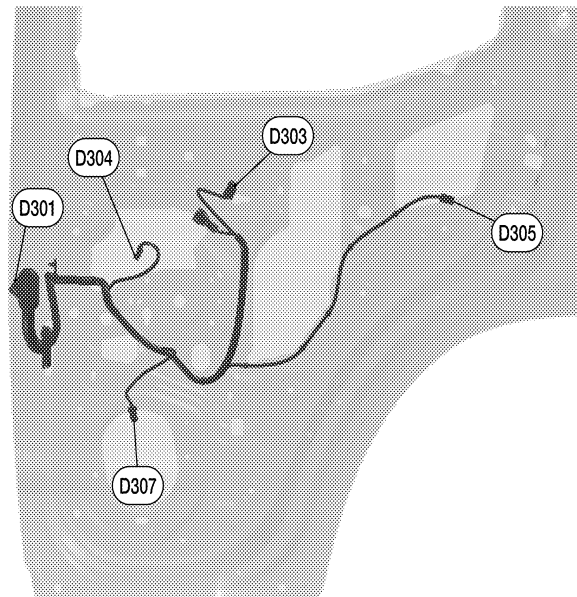
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D201	W/12	: To B6	D205	W/2	: Rear door lock actuator LH
D203	W/8	: Rear power window switch LH	D207	W/2	: Rear door speaker LH
D204	B/2	: Rear power window motor LH			

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< COMPONENT DIAGNOSIS >

REAR DOOR RH HARNESS



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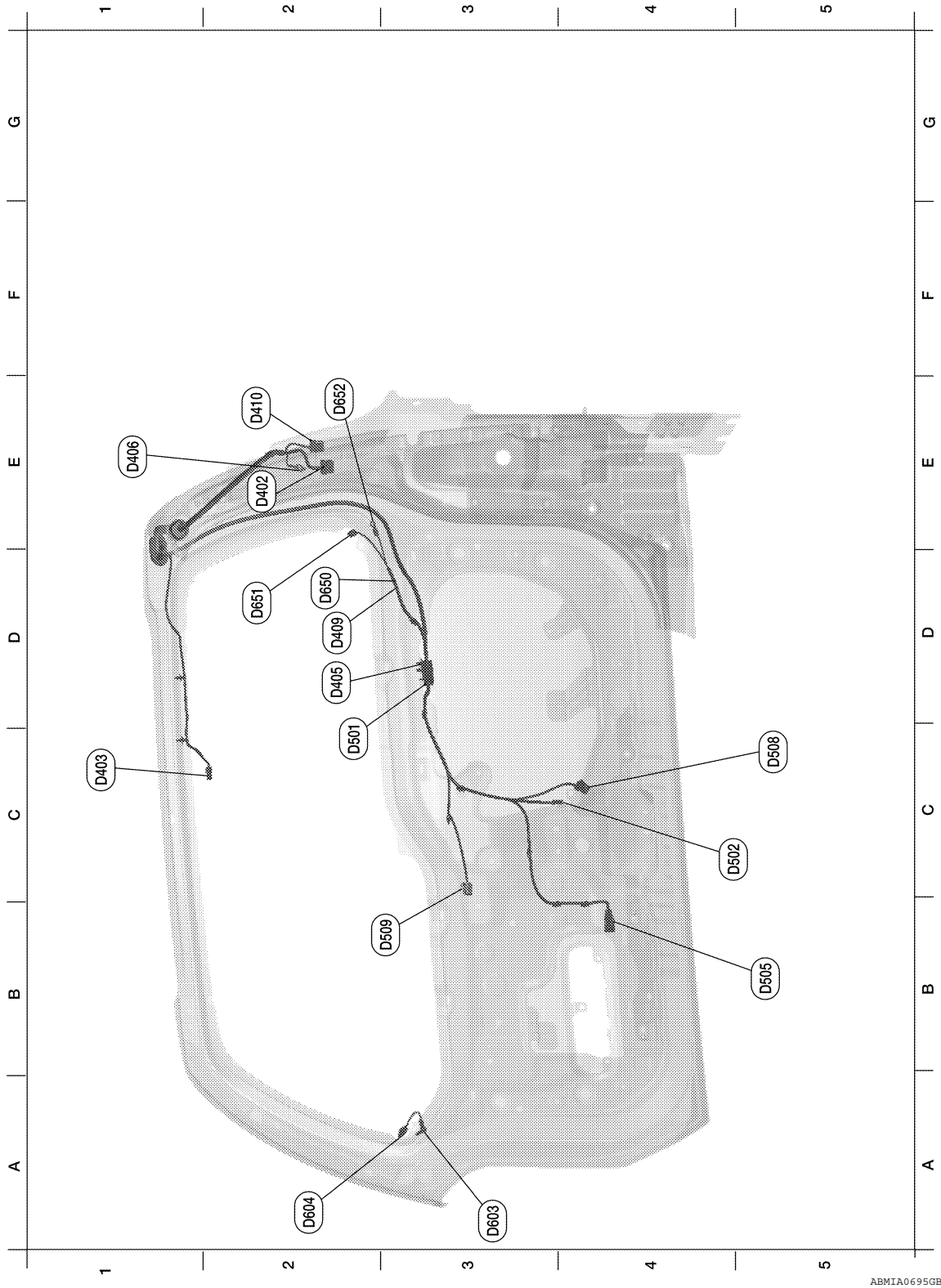
D301	W/12	: To B106	D305	W/2	: Rear door lock actuator RH
D303	W/8	: Rear power window switch RH	D307	W/2	: Rear door speaker RH
D304	B/2	: Rear power window motor RH			

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HARNESS

< COMPONENT DIAGNOSIS >

BACK DOOR HARNESS



Back door No. 2 harness				B5	D505	BR/3	: Back door key cylinder switch
E2	D402	W/8	: To B48	C5	D508	W/4	: Back door lock actuator
C1	D403	W/2	: High-mounted stop lamp	B3	D509	W/4	: Rear wiper motor
D2	D405	W/8	: To D501	Rear window defogger sub-harness			
E1	D406	—	: Body ground	A3	D603	—	: Body ground

HARNESS

< COMPONENT DIAGNOSIS >

D2	D409	W/2	: To D650	A2	D604	B/1	: Rear window defogger
E2	D410	W/2	: To B50	D2	D650	W/2	: To D409
Back door harness				D2	D651	B/1	: Rear window defogger
C3	D501	W/8	: To D405	E2	D652	—	: Body ground
C5	D502	W/3	: Back door switch				

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ELECTRICAL UNITS LOCATION

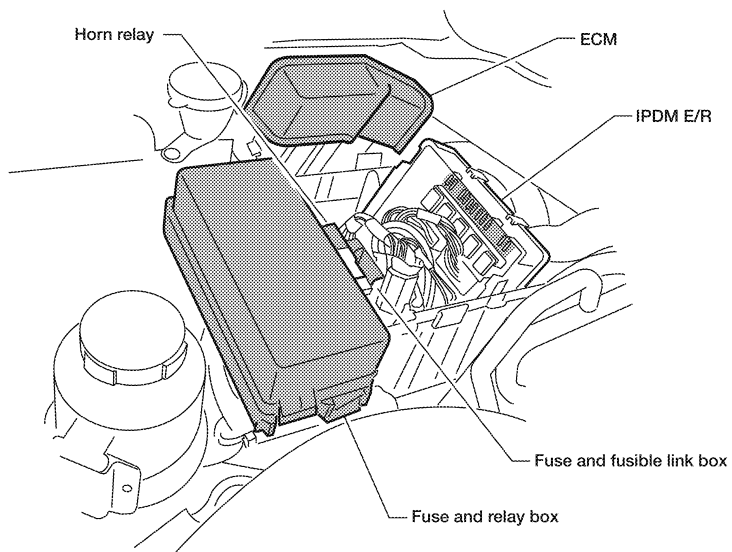
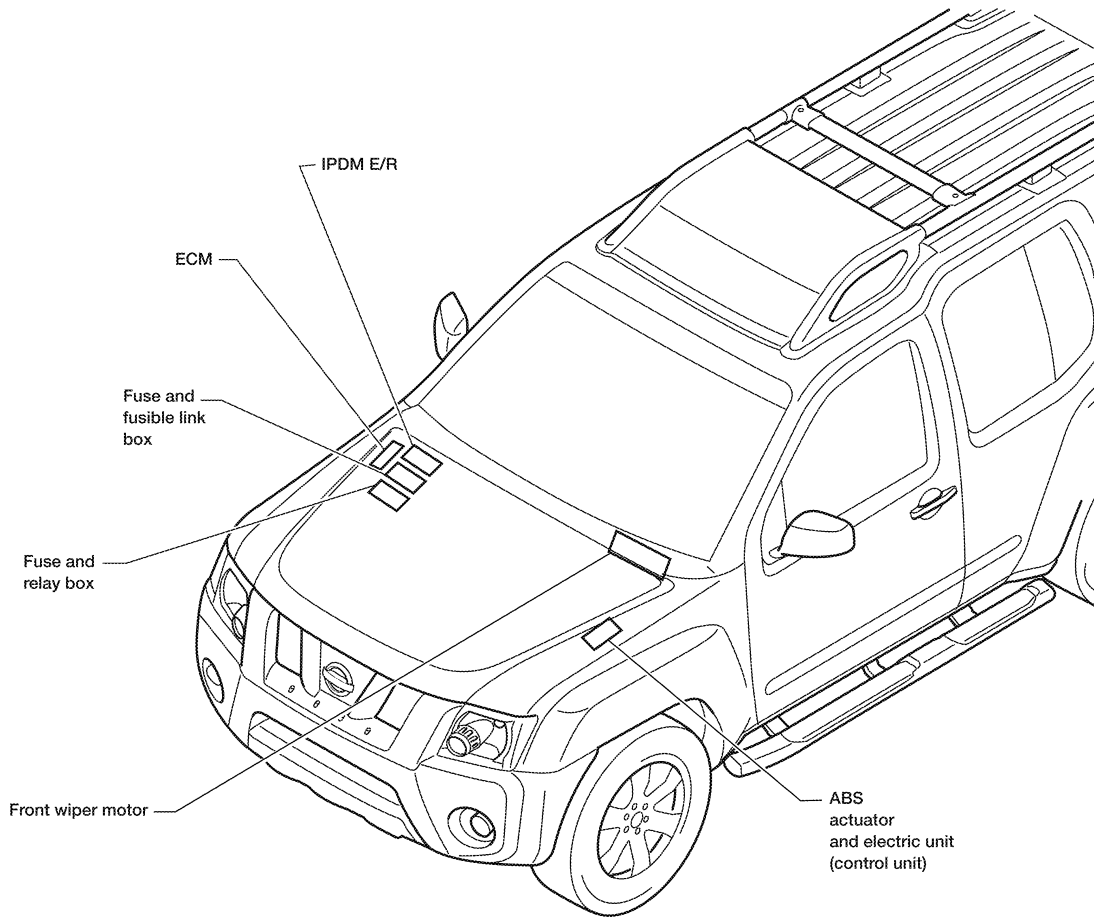
< COMPONENT DIAGNOSIS >

ELECTRICAL UNITS LOCATION

Electrical Units Location

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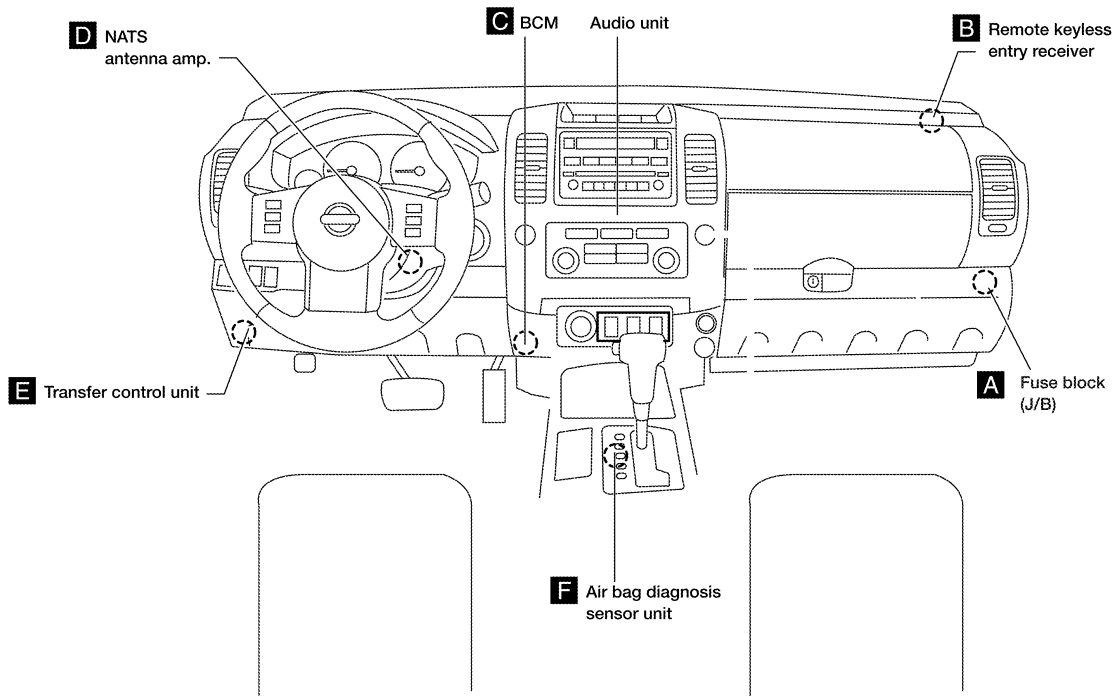
ENGINE COMPARTMENT



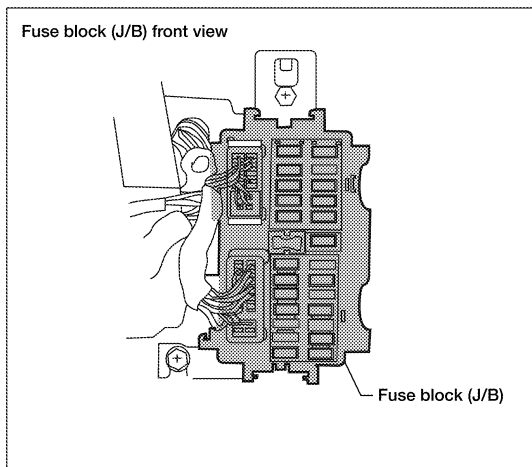
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ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS > PASSENGER COMPARTMENT



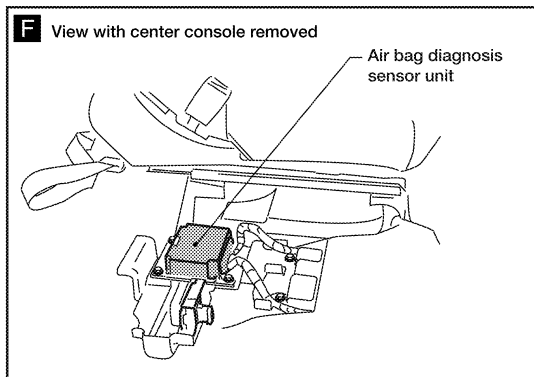
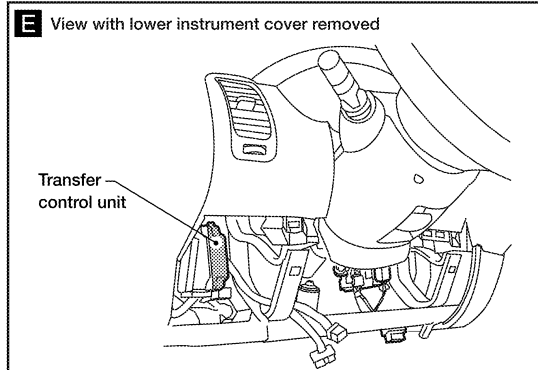
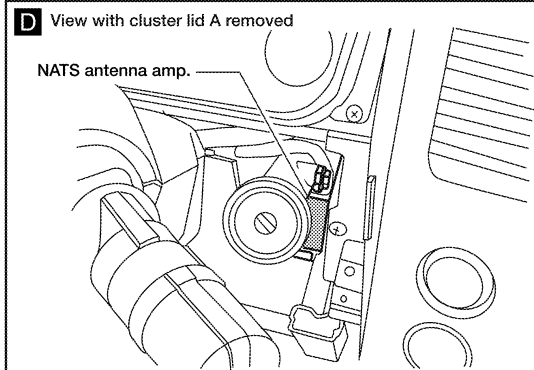
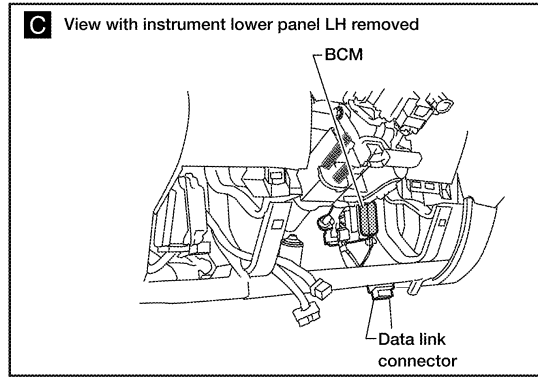
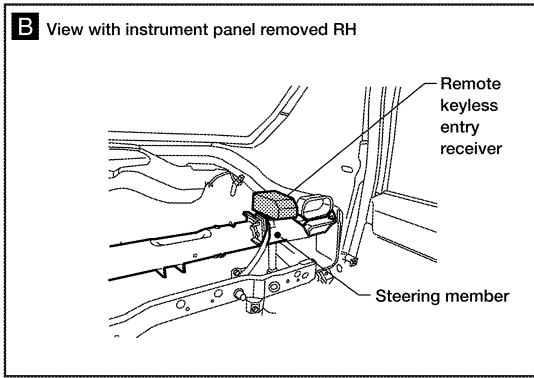
A Instrument panel side RH



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ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >



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HARNESS CONNECTOR

< COMPONENT DIAGNOSIS >

HARNESS CONNECTOR

Description

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HARNESS CONNECTOR (TAB-LOCKING TYPE)

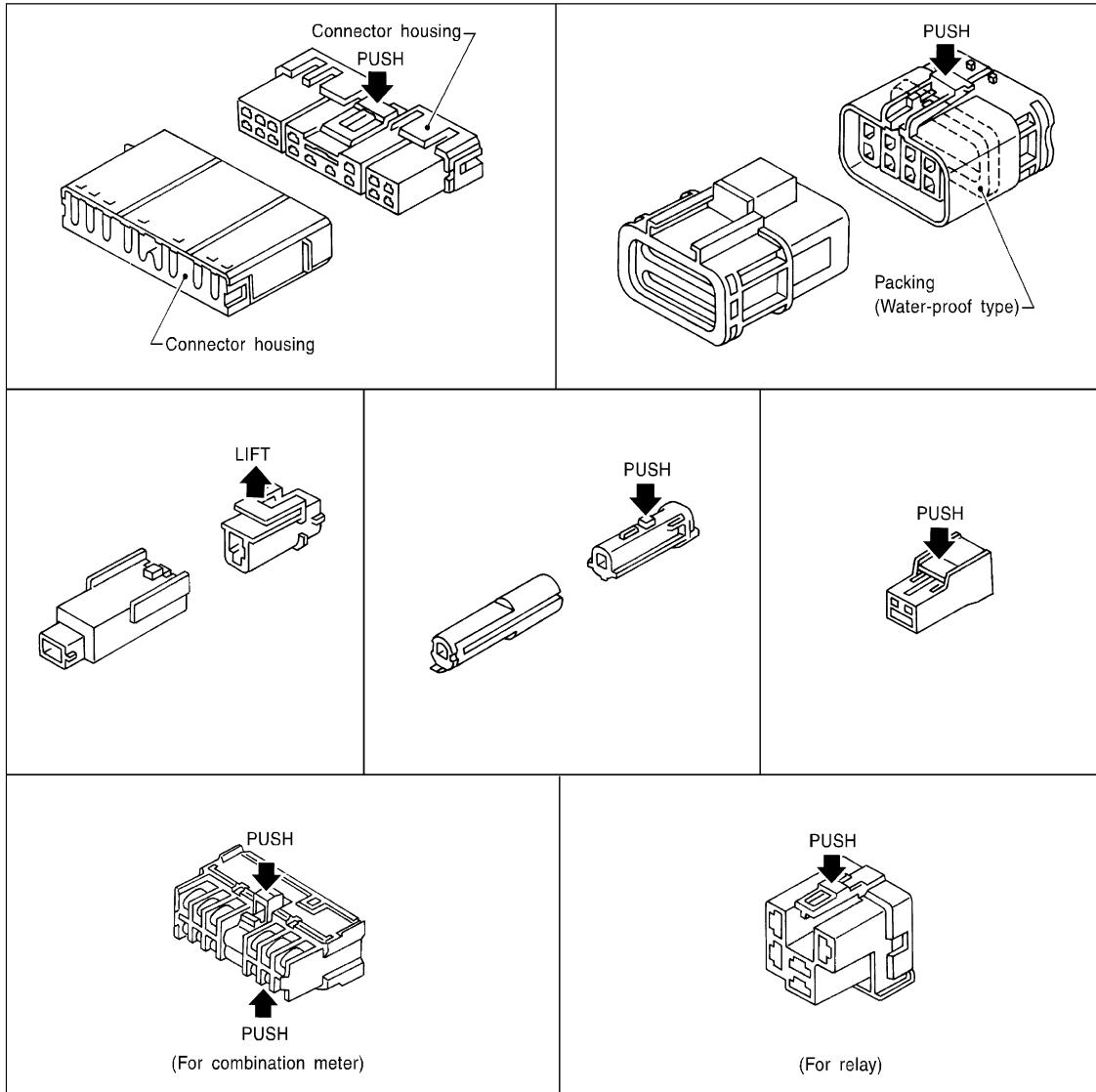
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the illustration below.

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

CAUTION:

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

[Example]



SEL769DA

HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

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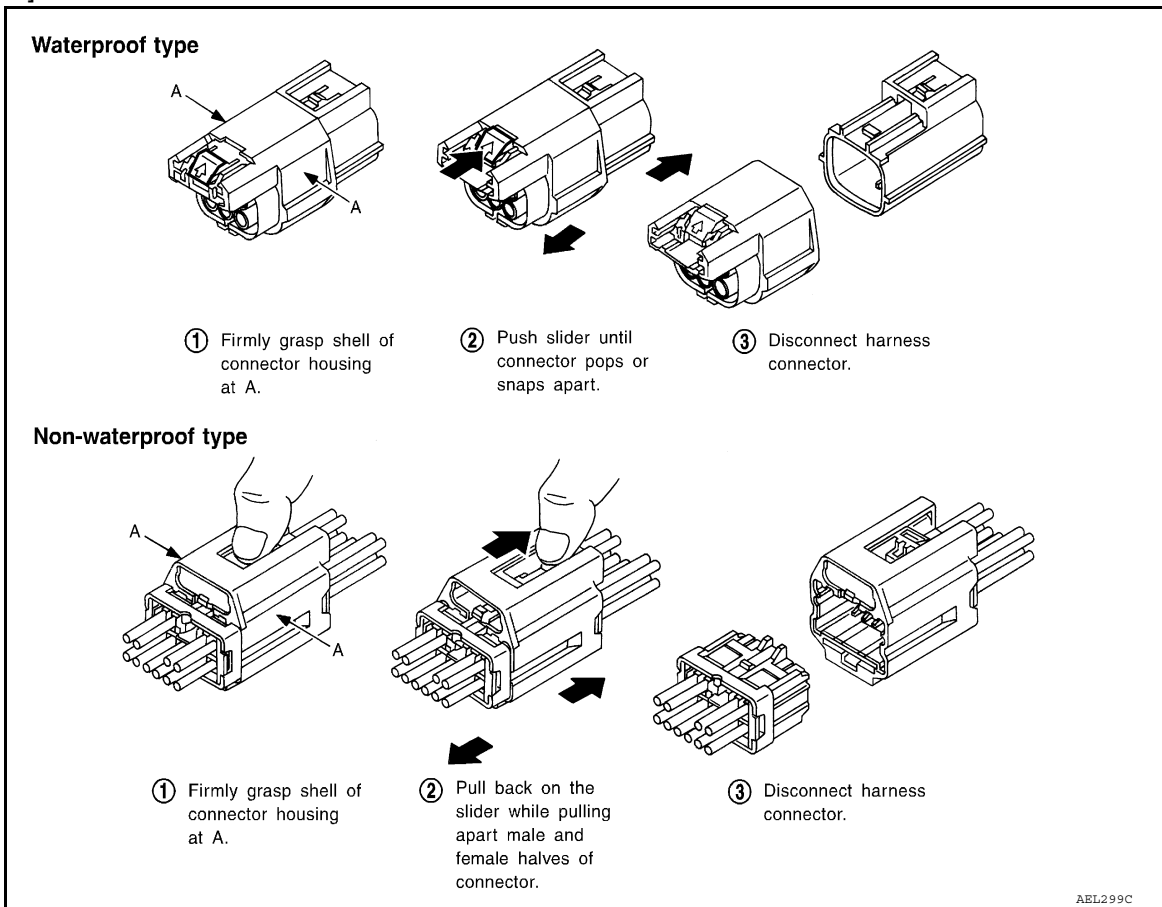
HARNESS CONNECTOR

< COMPONENT DIAGNOSIS >

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)

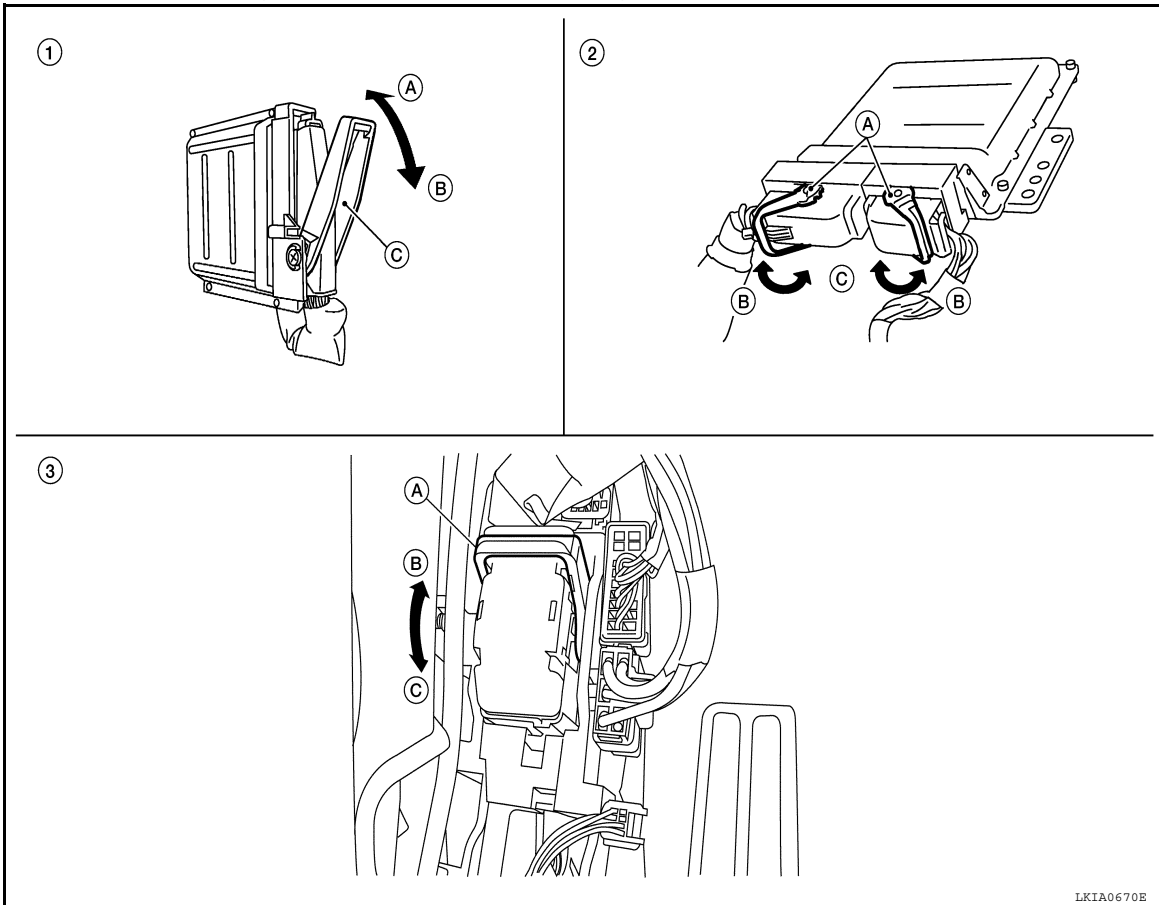
- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked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

CAUTION:

HARNESS CONNECTOR

< COMPONENT DIAGNOSIS >

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.



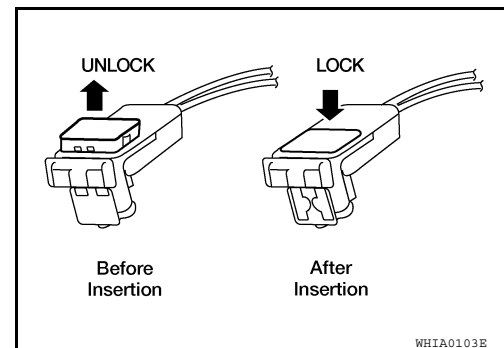
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|--|--|---|
| <p>1. Control unit with single lever</p> <p>A. Fasten</p> <p>B. Loosen</p> <p>C. Lever</p> | <p>2. Control unit with dual levers</p> <p>A. Levers</p> <p>B. Fasten</p> <p>C. Loosen</p> | <p>3. SMJ connector</p> <p>A. Lever</p> <p>B. Fasten</p> <p>C. Loosen</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 component.
- Always push down to lock black locking tab after installing connector to SRS component. When locked, the black locking tab is level with the connector housing.

CAUTION:

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



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STANDARDIZED RELAY

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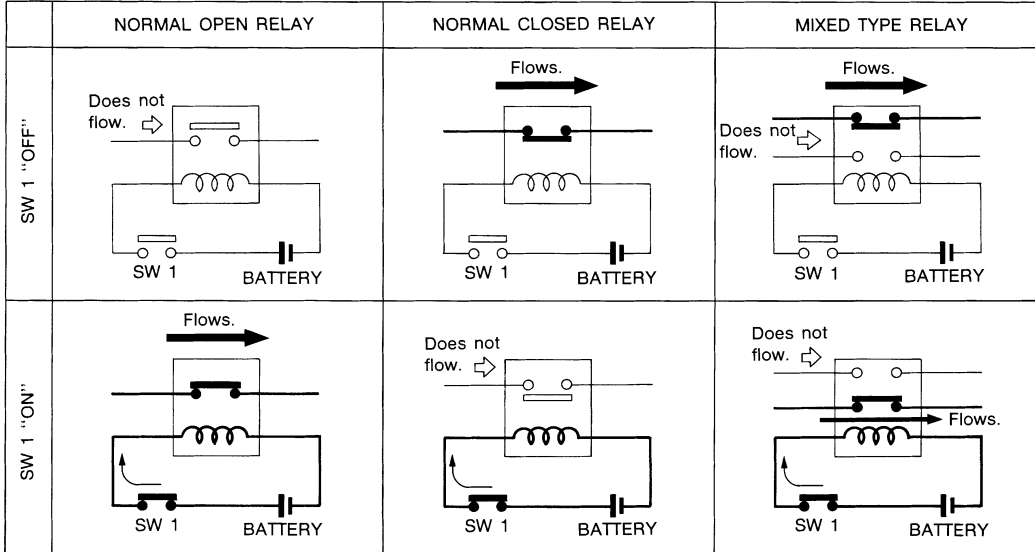
STANDARDIZED RELAY

Description

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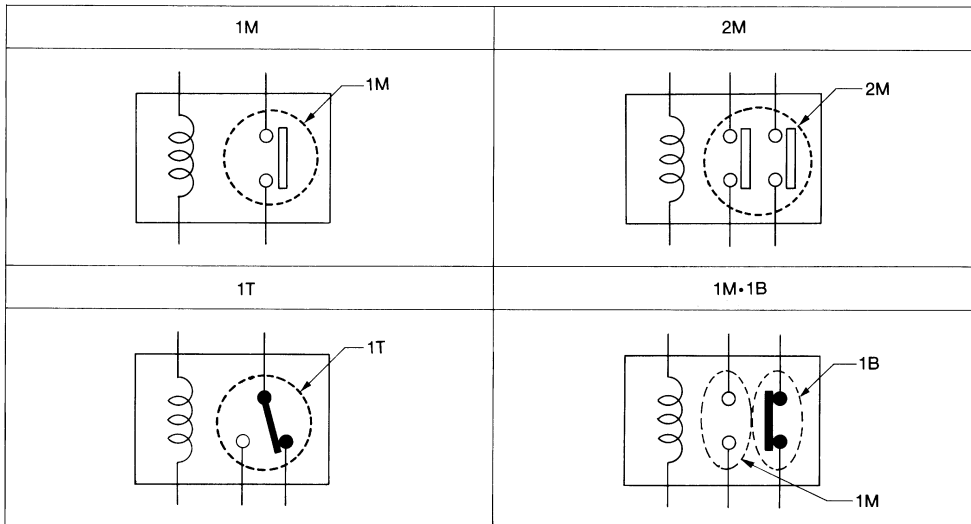
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



SEL881H

TYPE OF STANDARDIZED RELAYS

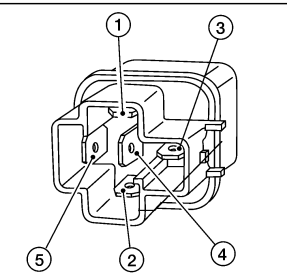
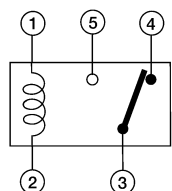
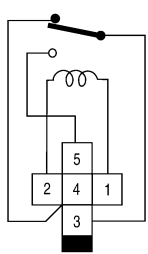
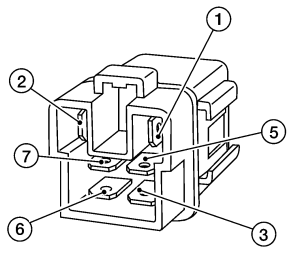
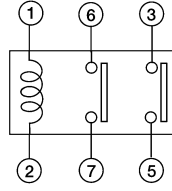
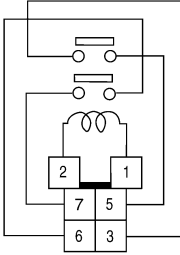
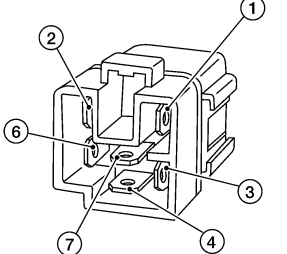
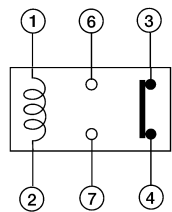
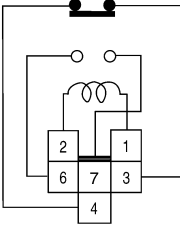
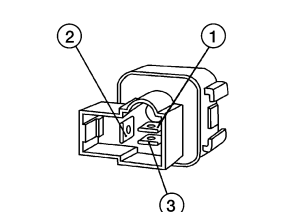
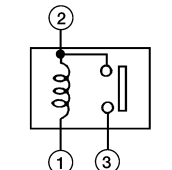
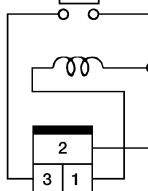
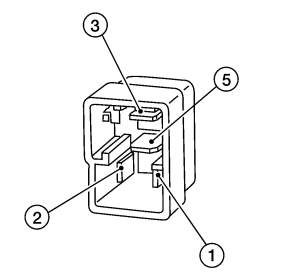
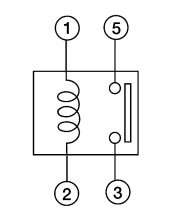
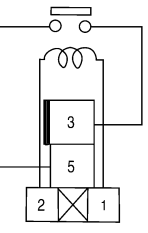


SEL882H

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

STANDARDIZED RELAY

< COMPONENT DIAGNOSIS >

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

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

WKIA0253E

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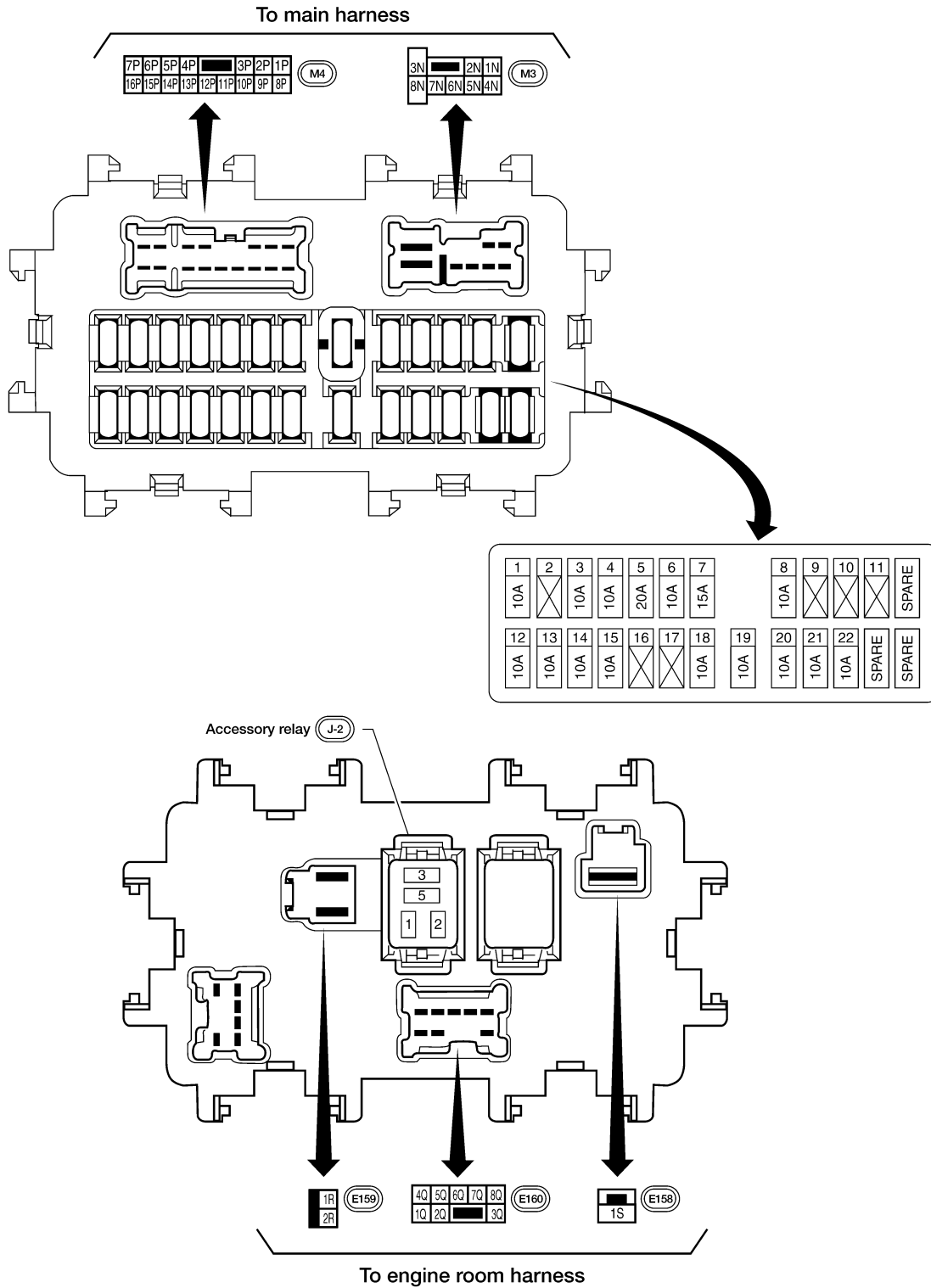
FUSE BLOCK-JUNCTION BOX (J/B)

< COMPONENT DIAGNOSIS >

FUSE BLOCK-JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:000000005282543



ABMIA1704GB

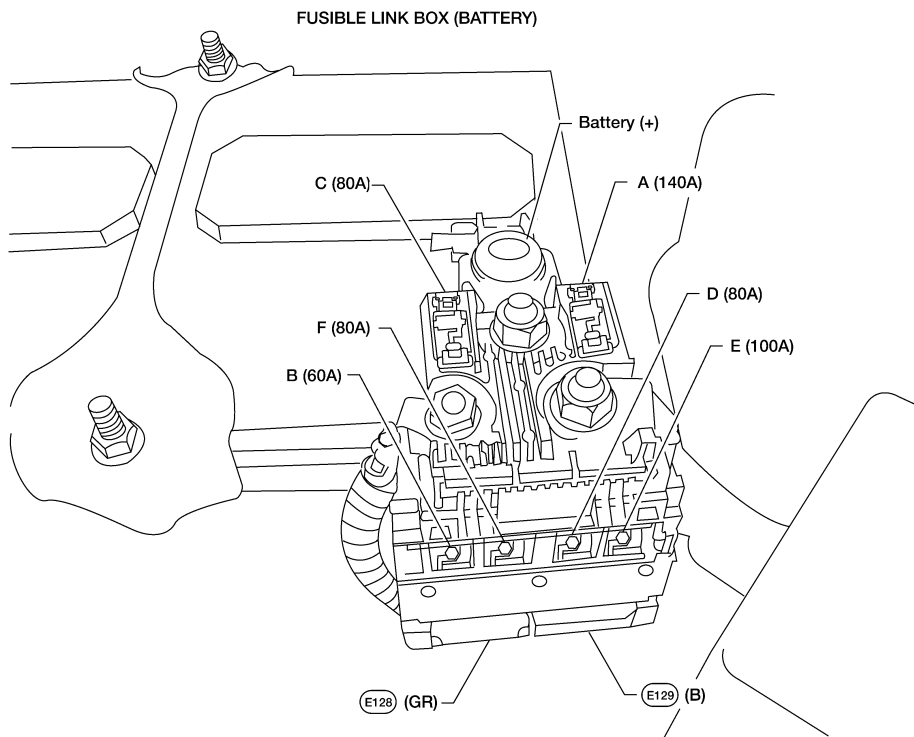
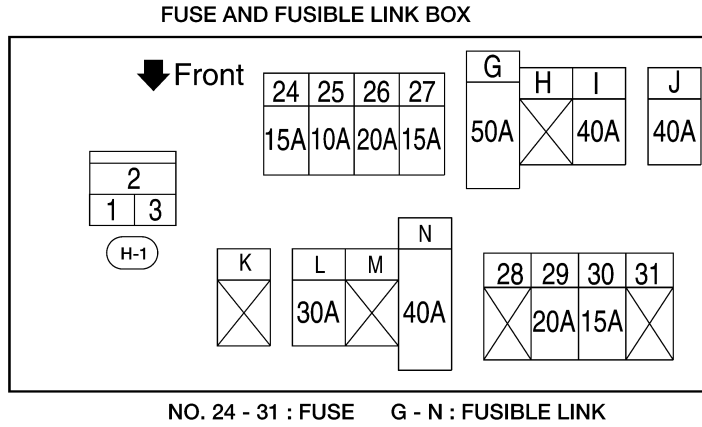
FUSE, FUSIBLE LINK AND RELAY BOX

< COMPONENT DIAGNOSIS >

FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

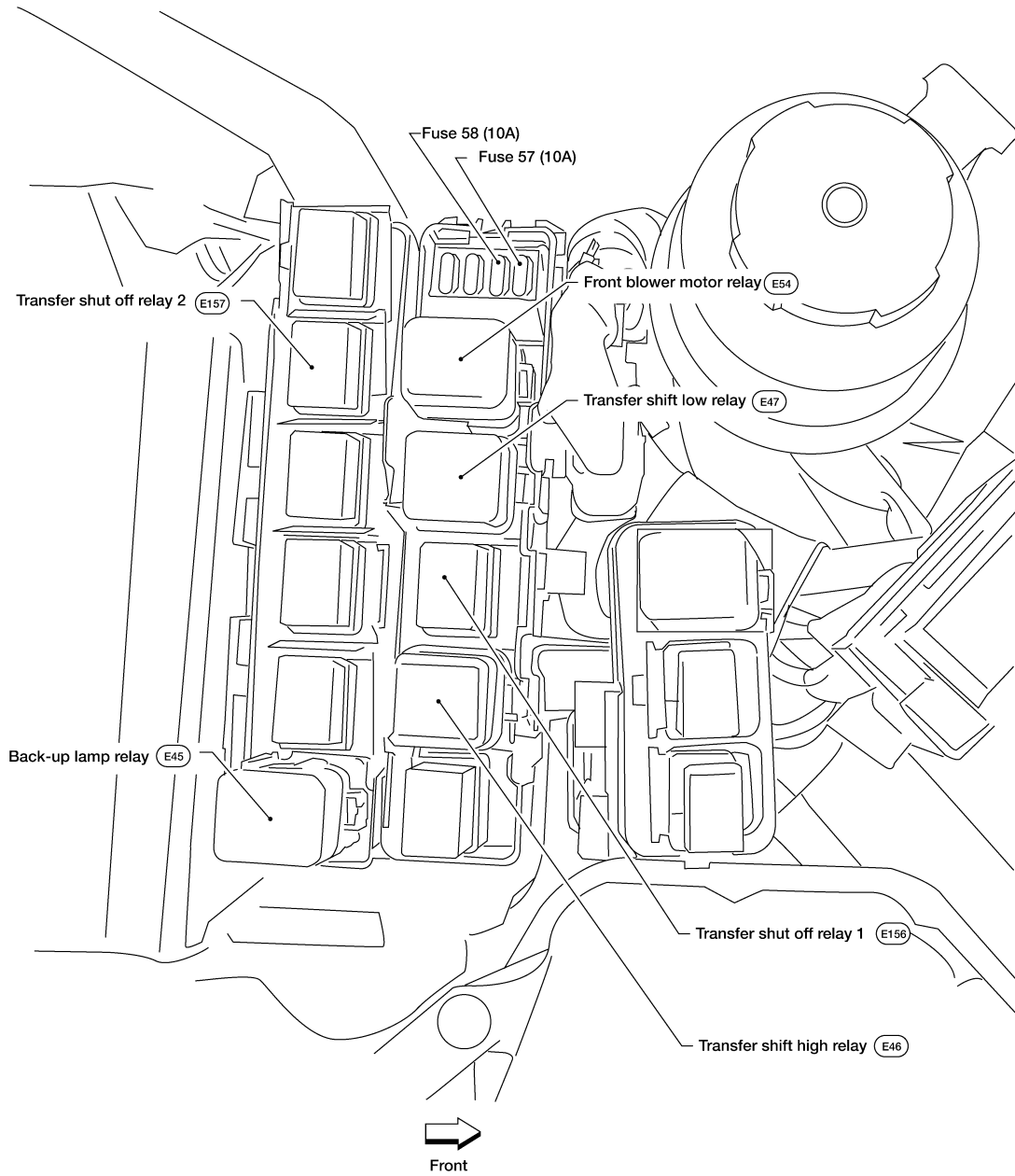
INFOID:000000005282544



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FUSE, FUSIBLE LINK AND RELAY BOX

< COMPONENT DIAGNOSIS >



ABM1A1706GB

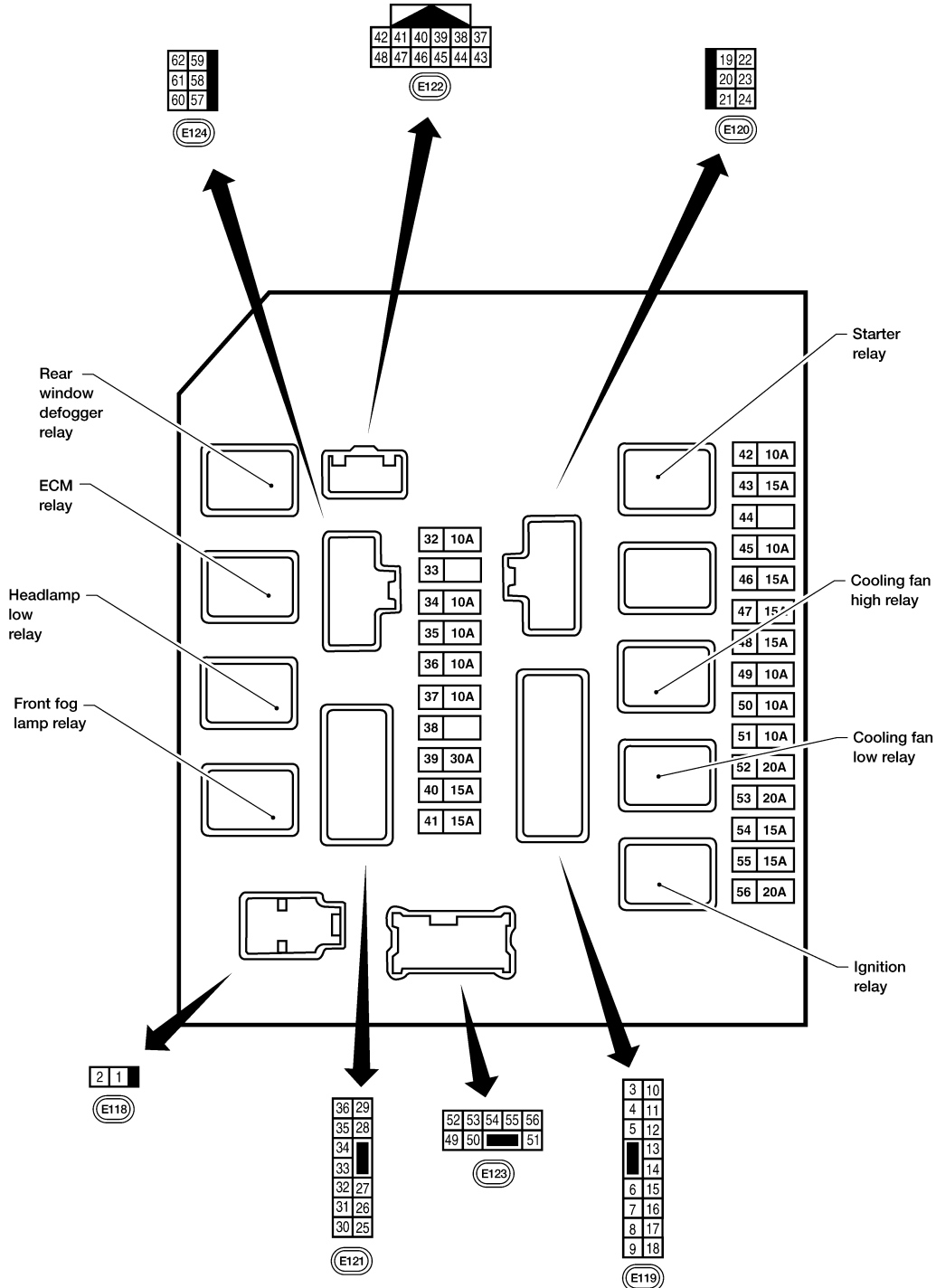
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< COMPONENT DIAGNOSIS >

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

IPDM E/R Terminal Arrangement - Type A

INFOID:000000005740512



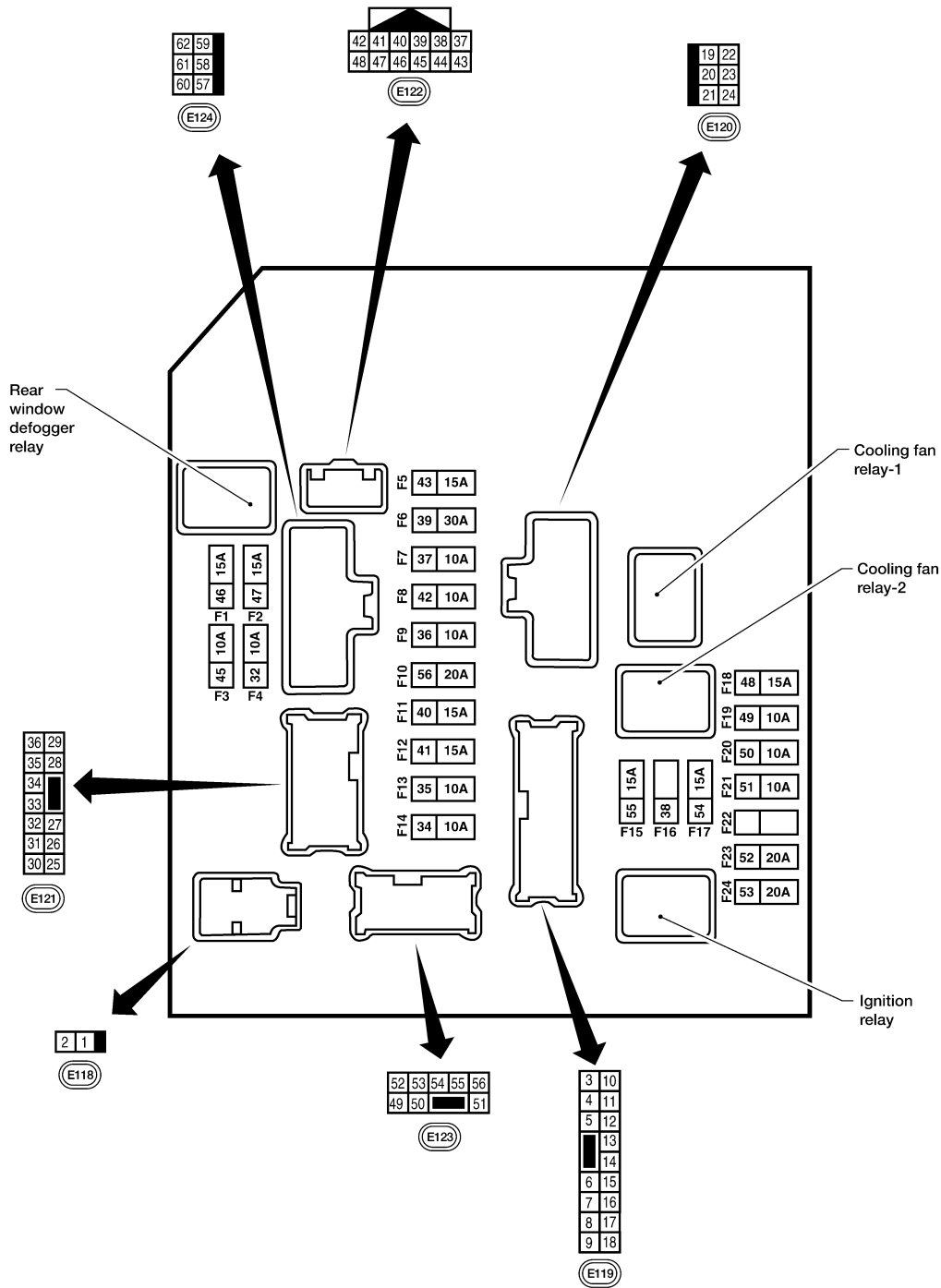
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IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< COMPONENT DIAGNOSIS >

IPDM E/R Terminal Arrangement - Type B

INFOID:000000005740513



NOTE:

Numbers preceded by an "F" represent the fuse numbers imprinted on the IPDM E/R. The other numbers represent the fuse numbers as they appear in the wiring diagrams.

ABM1A1708GB

BATTERY

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

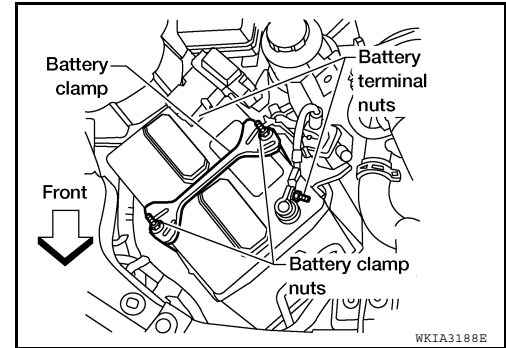
BATTERY

Removal and Installation

INFOID:000000005282546

REMOVAL

1. Disconnect both battery negative and positive terminals.
CAUTION:
Disconnect battery negative terminal first.
2. Remove battery clamp nuts and battery clamp.
3. Remove battery.



INSTALLATION

Installation is in the reverse order of removal.

CAUTION:
Connect battery positive terminal first.

Battery clamp nuts : 3.92 N·m (0.40 kg-m, 35 in-lb)

Battery terminal nut : 3.4 N·m (0.35 kg-m, 30 in-lb)

Reset electronic systems as necessary. Refer to [PG-7, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

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BATTERY

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

BATTERY

Battery

INFOID:000000005282547

	Standard battery
Type*	GR35
Capacity (20 HR) minimum V-AH	12-63
Cold cranking current A (For reference value)	550 @ -18°C (0°F)

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