

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:000000003708981

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.

Precaution for Power Generation Variable Voltage Control System

INFOID:000000003708982

CAUTION:

For this model, the battery current sensor that is installed to the negative battery cable measures the charging/discharging current of the battery and performs various engine controls. If an electrical component is connected directly to the negative battery terminal, the current flowing through that component will not be measured by the battery current sensor. This condition may cause a malfunction of the engine control system and battery discharge may occur. Do not connect an electrical component or ground wire directly to the battery terminal.

PREPARATION


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PREPARATION

PREPARATION

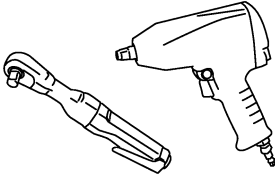
Special Service Tool

INFOID:000000004688013

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

Commercial Service Tool

INFOID:000000003708984

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

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BATTERY

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY

How to Handle Battery

INFOID:000000003708985

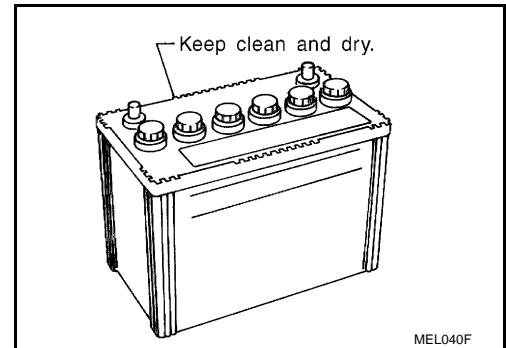
CAUTION:

- 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.

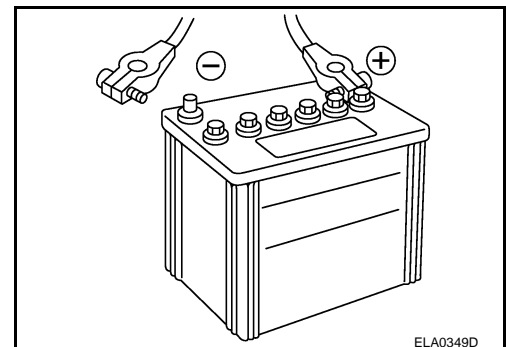
METHODS OF PREVENTING OVER-DISCHARGE

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

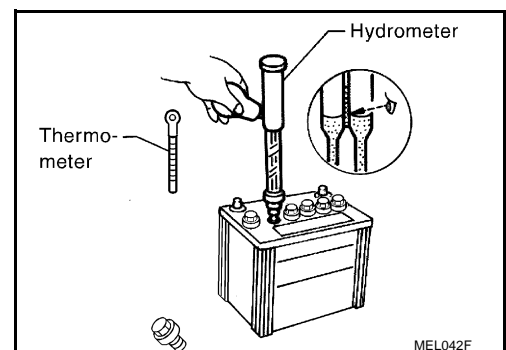
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level. This also applies to batteries designated as "low maintenance" and "maintenance-free".



- 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

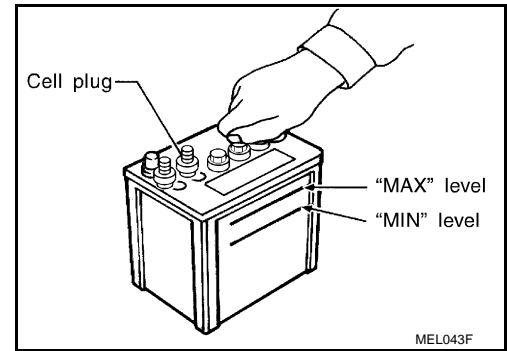
WARNING:

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.

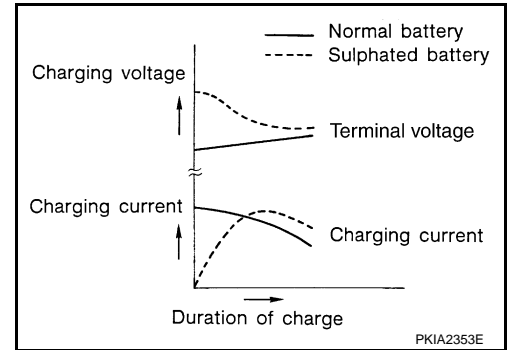


Sulphation

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.

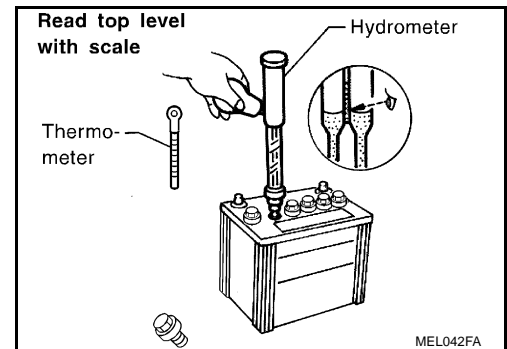
To determine if a battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.

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

INFOID:000000004688014

TROUBLE DIAGNOSIS WITH MULTITASKING BATTERY DIAGNOSTIC STATION

Refer to diagnostic station instruction manual.

Special Repair Requirement

INFOID:000000004052177

Required Procedure After Battery Disconnection

System	Item	Reference
Brake Control	Steering Angle Sensor Neutral Position	Refer to BRC-8 .
Roof	Sunroof Memory Reset/Initialization	Refer to RF-5 .
Seats	Automatic Drive Positioner System Initialization	Refer to ADP-7 .
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 AV-276 .

POWER SUPPLY ROUTING CIRCUIT

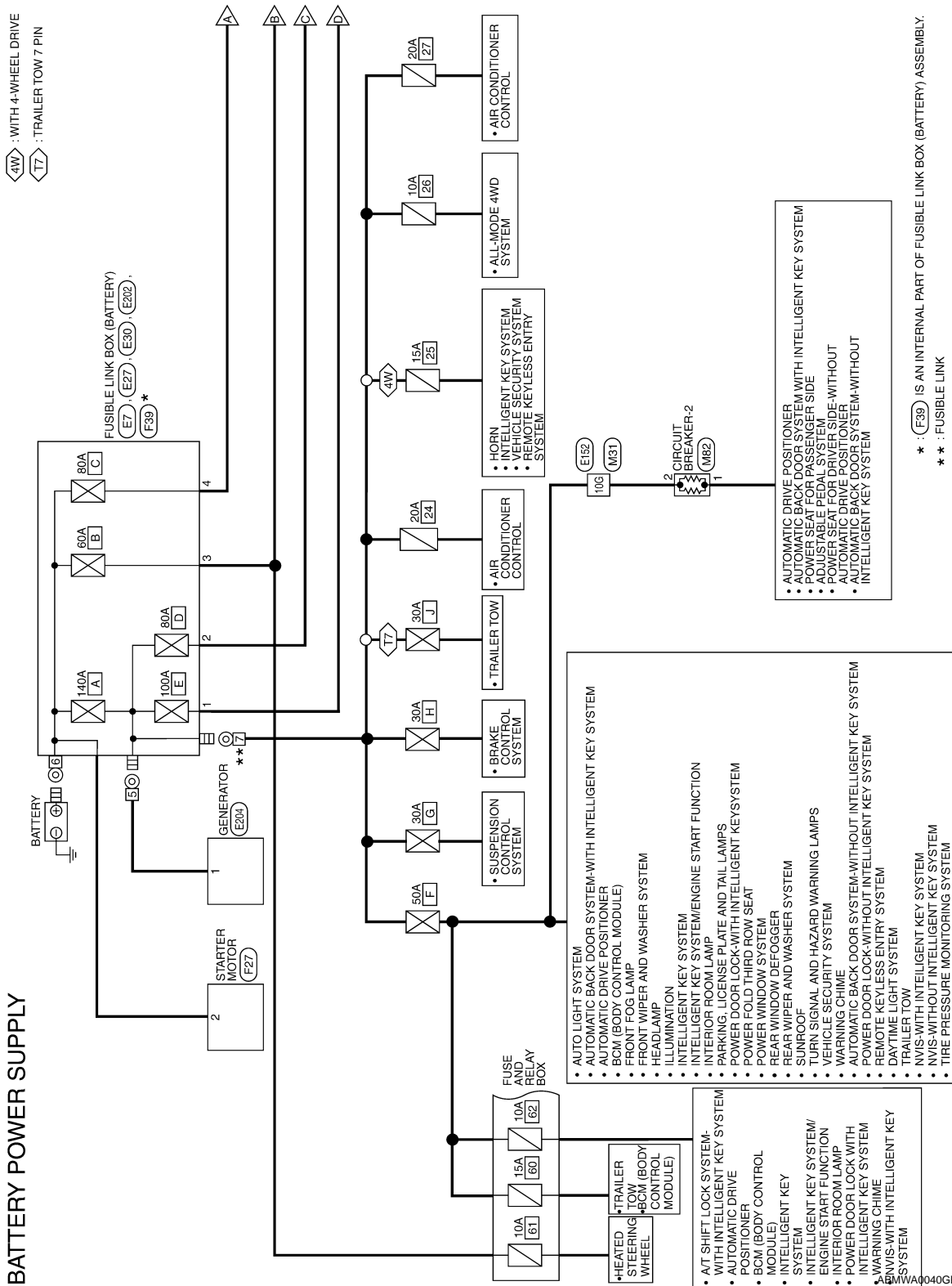
< COMPONENT DIAGNOSIS >

COMPONENT DIAGNOSIS

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram —Battery Power Supply—

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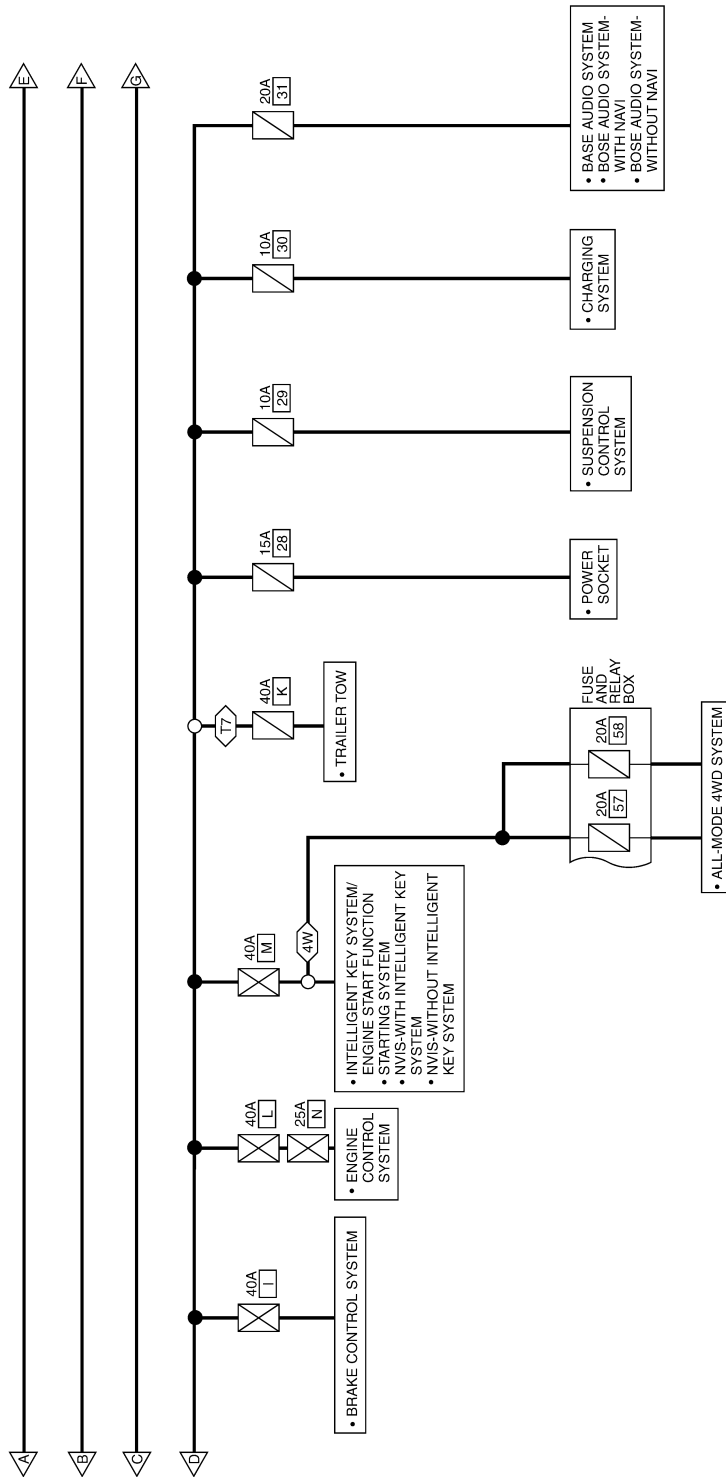


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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

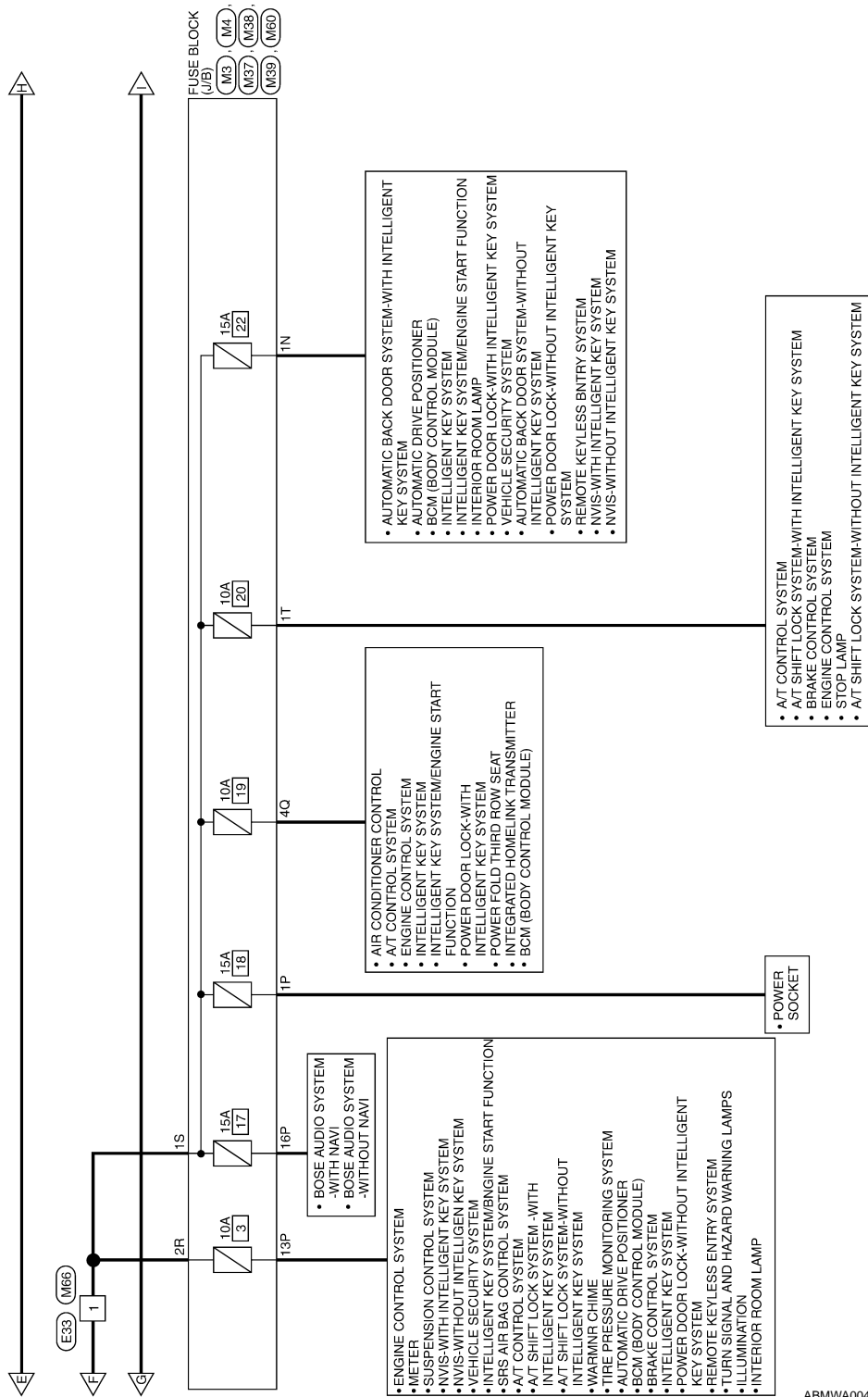
 : WITH 4-WHEEL DRIVE
 : TRAILER TOW 7 PIN



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POWER SUPPLY ROUTING CIRCUIT

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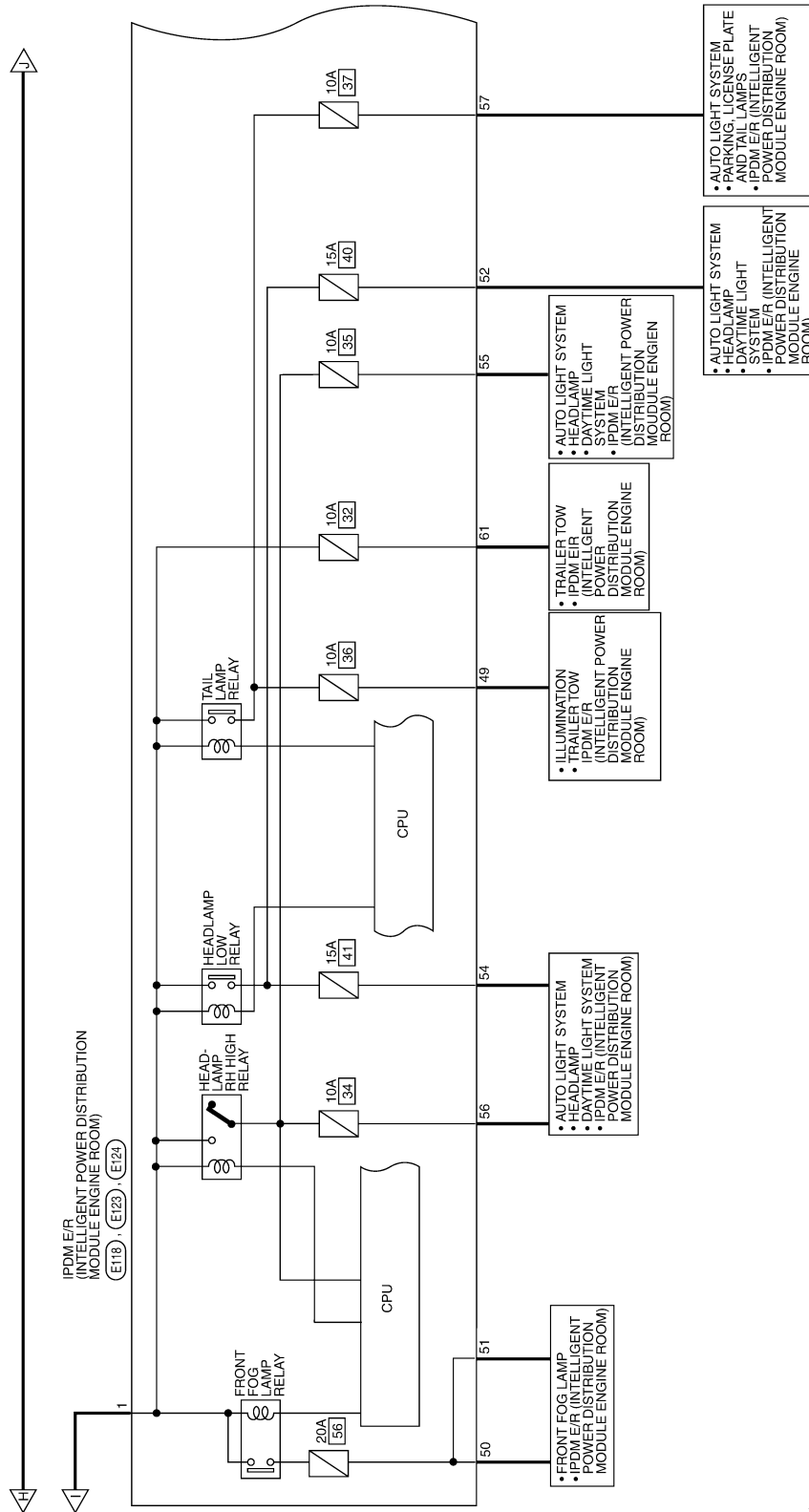


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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

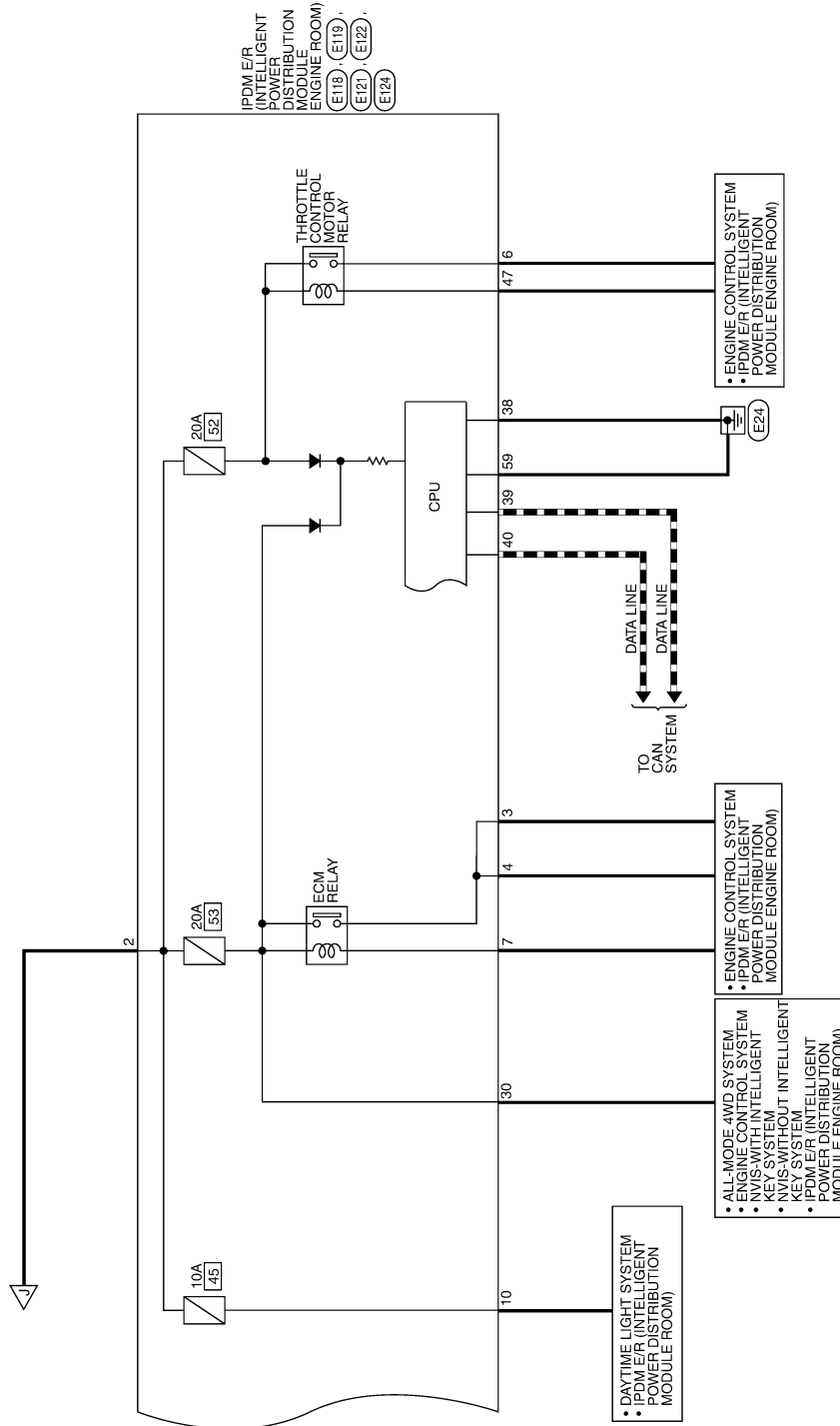


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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

--- : DATA LINE



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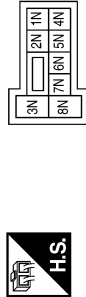
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

BATTERY POWER SUPPLY CONNECTORS

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



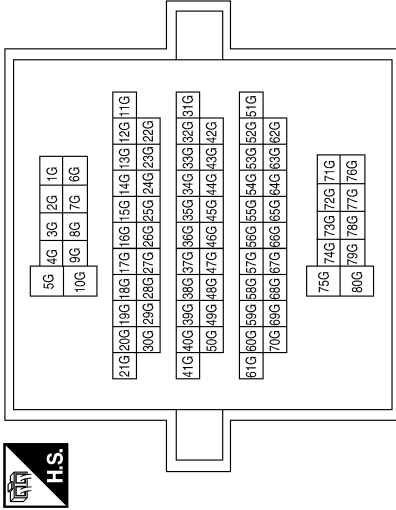
Terminal No.	Color of Wire	Signal Name
1N	Y/R	-

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



Terminal No.	Color of Wire	Signal Name
1P	G	-
13P	P	-
16P	R	-

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



Terminal No.	Color of Wire	Signal Name
10G	W/B	-

Connector No.	M37
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK



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

Connector No.	M38
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2R	W	B

Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
4Q	Y/R	-

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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	M82
Connector Name	CIRCUIT BREAKER-2
Connector Color	WHITE



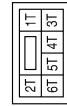
Terminal No.	Color of Wire	Signal Name
1	L/B	-
2	W/B	-

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-

Connector No.	M60
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1T	R/Y	-

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



Terminal No.	Color of Wire	Signal Name
7	W	-

Connector No.	E27
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BROWN



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

Connector No.	E7
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



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


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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

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

Terminal No.	Color of Wire	Signal Name
3	BR	IGN COIL
4	W/L	ECM
6	L	ETC
7	W/B	ECM RLY CONT
10	G	DTRL RLY SUPPLY

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



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

Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Color	BLACK



1

Terminal No.	Color of Wire	Signal Name
1	W	-


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

Terminal No.	Color of Wire	Signal Name
49	R/L	ILLUMINATION
50	W/R	FR FOG LAMP LH
51	W/R	FR FOG LAMP RH
52	L	H/LAMP LO LH
54	R/Y	H/LAMP LO RH
55	G	H/LAMP HI LH
56	L/W	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)
39	L	CAN-H
40	P	CAN-L
47	O	ETC RLY CONT

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
30	W	ECM BAT

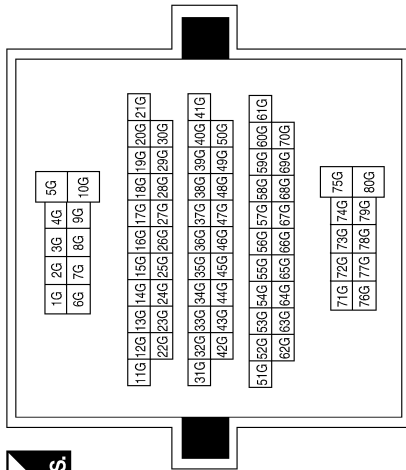
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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Terminal No.	Color of Wire	Signal Name
10G	W/B	-

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



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
57	R/L	TAIL_LAMP
59	B	GND(POWER)
61	BR	TRAILER RLY SUPPLY

Connector No.	F27
Connector Name	STARTER MOTOR
Connector Color	BLACK

Connector No.	E204
Connector Name	GENERATOR
Connector Color	-



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



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

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

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

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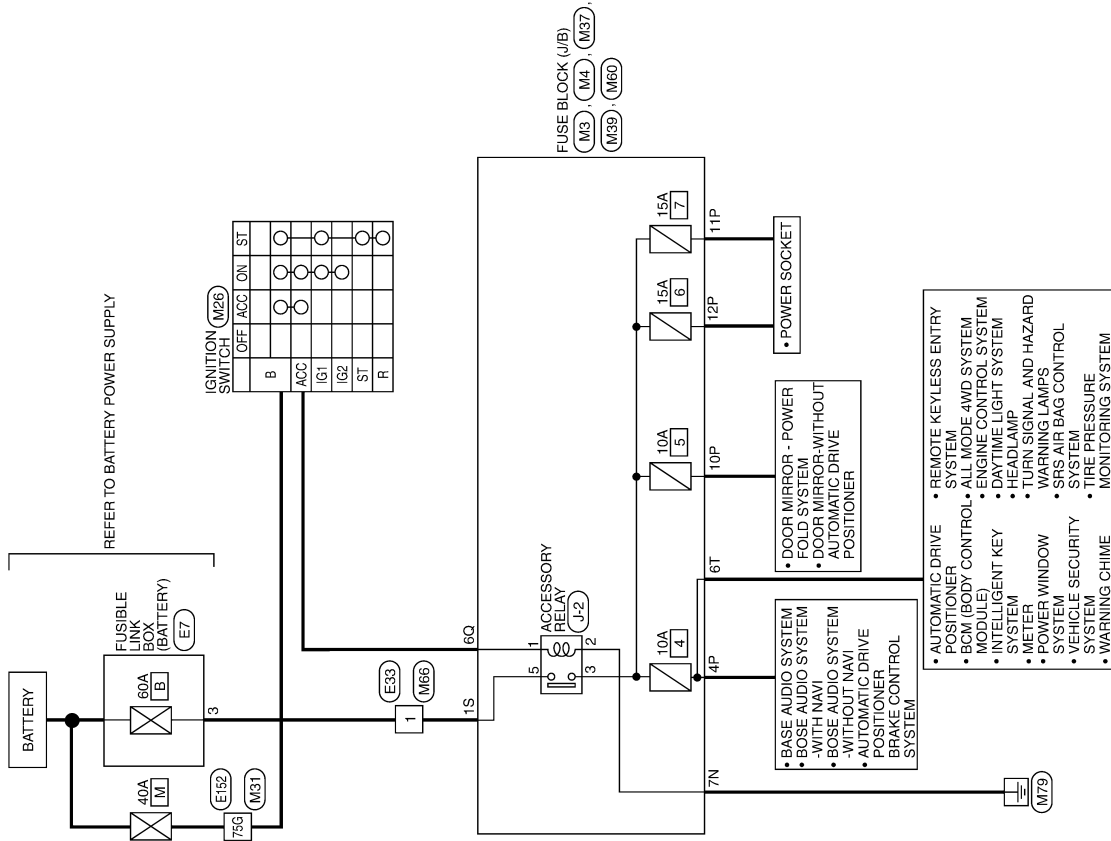
POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Wiring Diagram —Accessory Power Supply—

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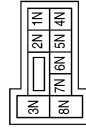
ACCESSORY POWER SUPPLY



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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



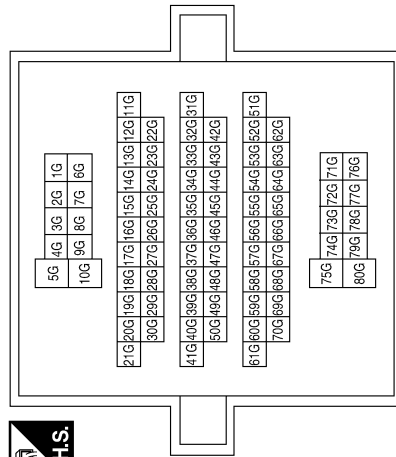
Terminal No.	Color of Wire	Signal Name
4P	V	-
10P	O	-
11P	G/W	-
12P	L/W	-

Connector No.	M26
Connector Name	IGNITION SWITCH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
IG1	-	-
IG2	-	-
ST	-	-
B	G	-
ACC	V	-
R	-	-

Connector No.	M31
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	75G
Color of Wire	G
Signal Name	-

Connector No.	M37
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK



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

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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Color	BLACK



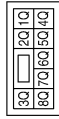
Terminal No.	1	Color of Wire	W	Signal Name	-
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Connector No.	M60
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	6T	Color of Wire	O	Signal Name	-
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Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	6Q	Color of Wire	V	Signal Name	ACC
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Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	1	Color of Wire	W	Signal Name	-
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Connector No.	E7
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



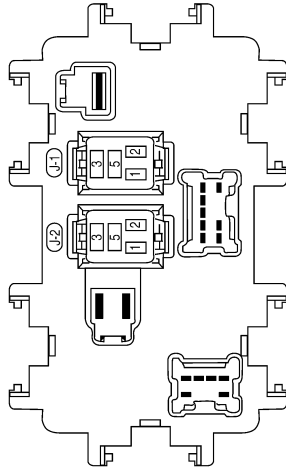
Terminal No.	3	Color of Wire	W	Signal Name	-
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POWER SUPPLY ROUTING CIRCUIT

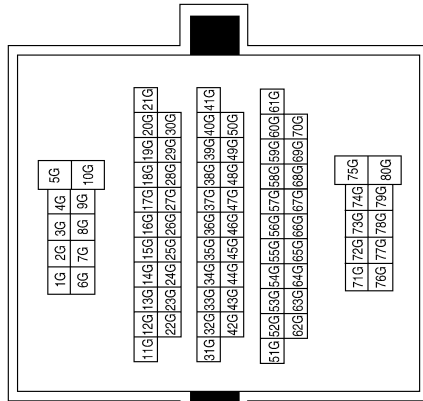
< COMPONENT DIAGNOSIS >

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



Terminal No.	Color of Wire	Signal Name
1	-	-
2	-	-
3	-	-
5	-	-

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



Terminal No.	Color of Wire	Signal Name
75G	G	-

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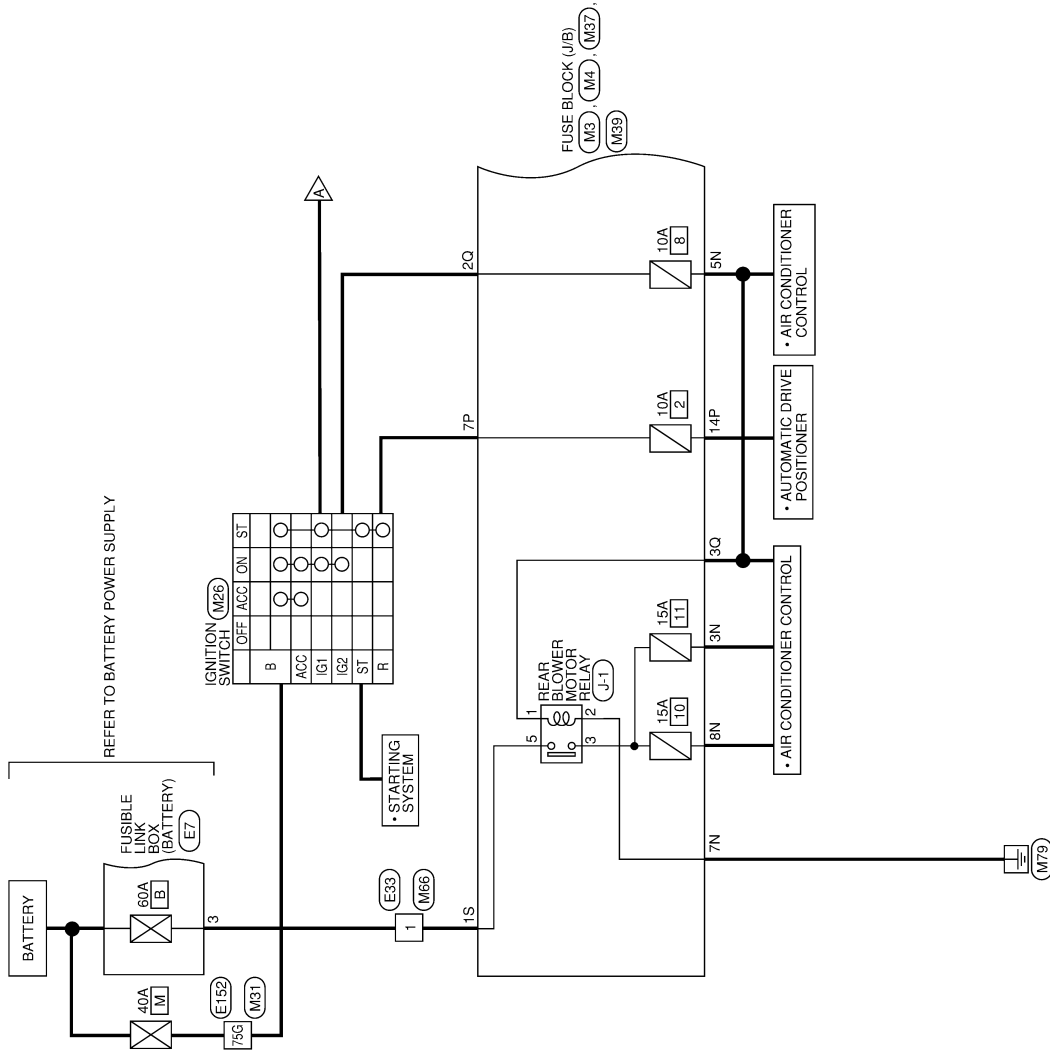
POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Wiring Diagram —Ignition Power Supply —

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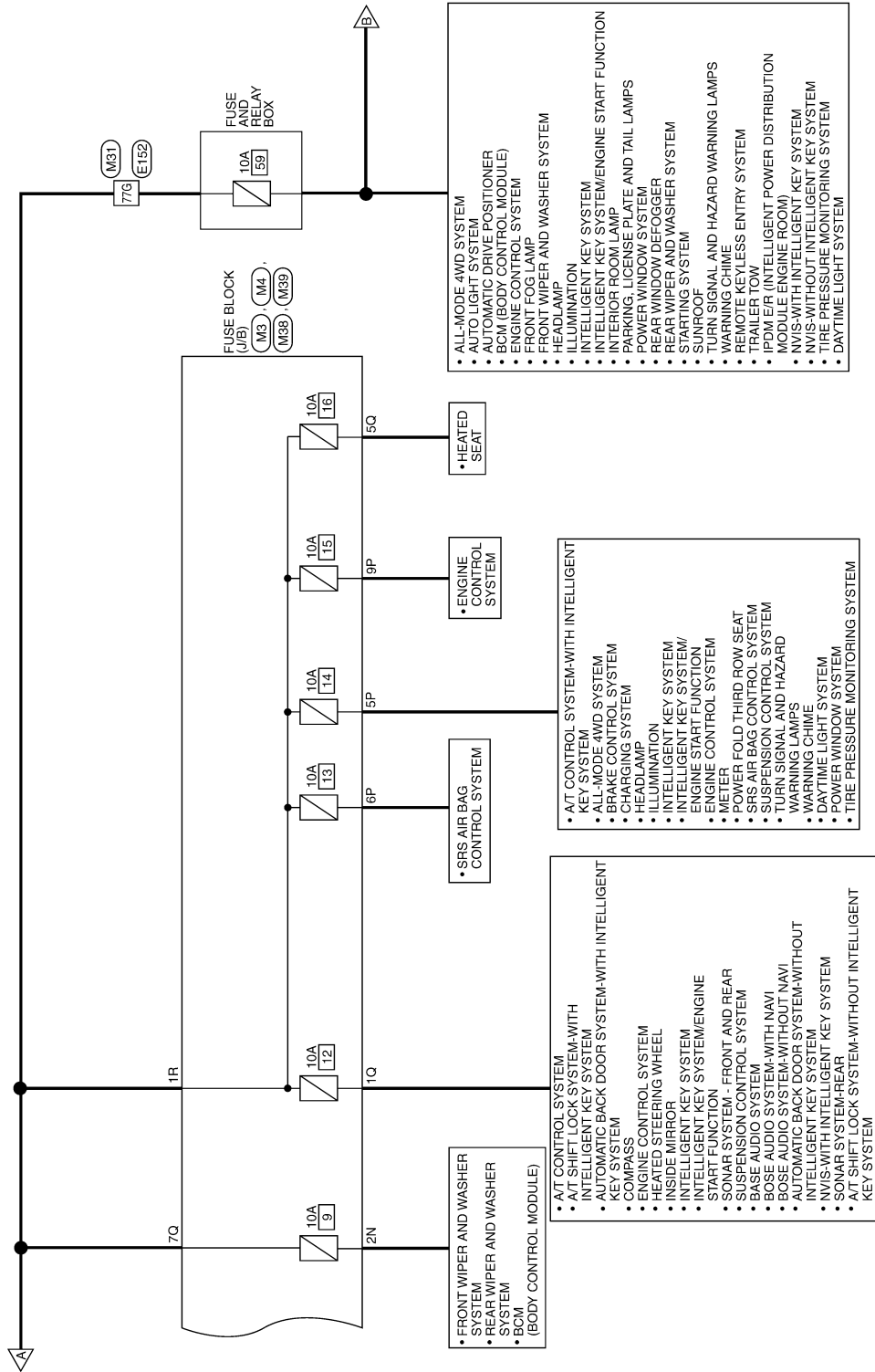
IGNITION POWER SUPPLY



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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >



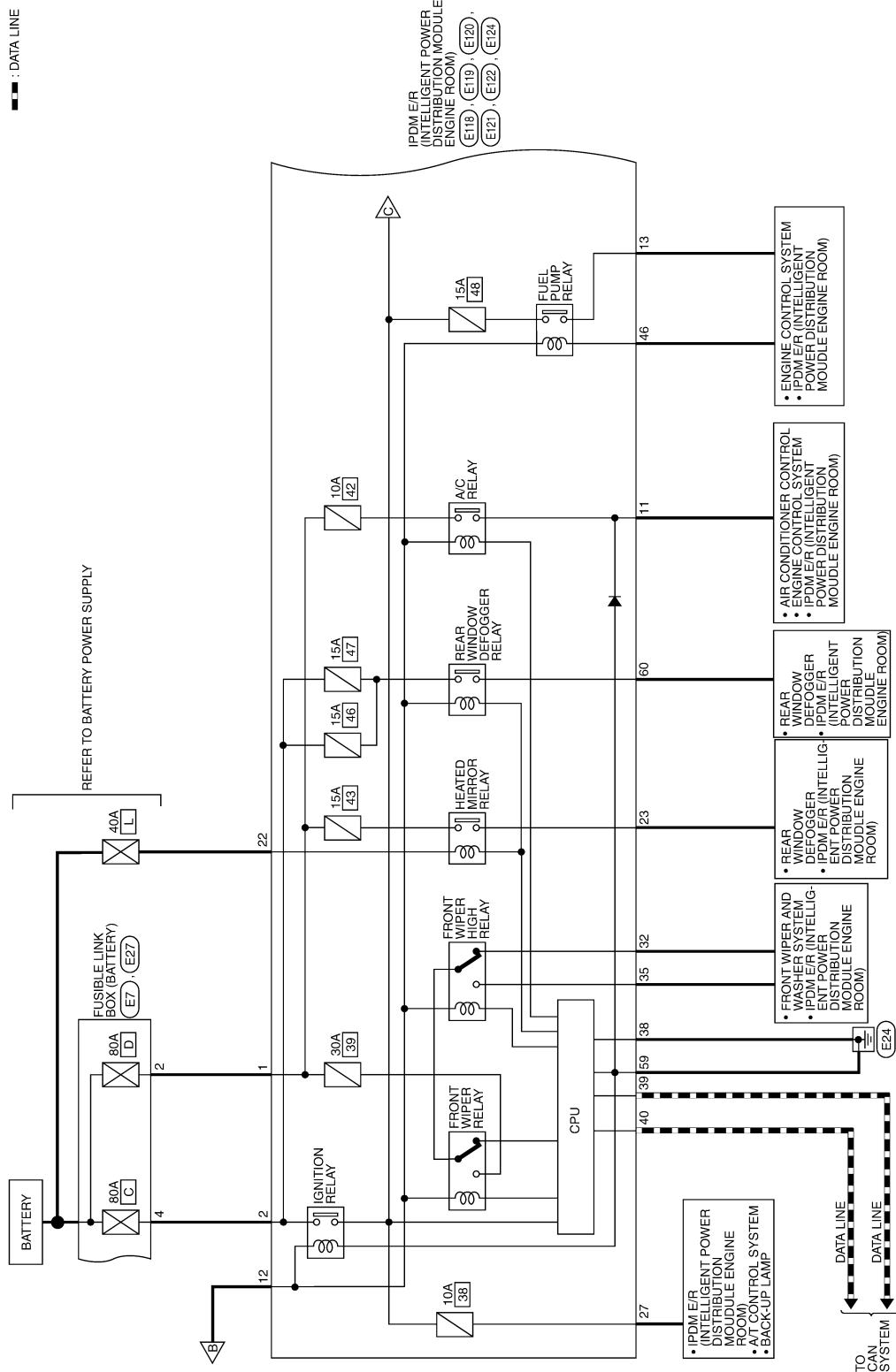
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POWER SUPPLY ROUTING CIRCUIT

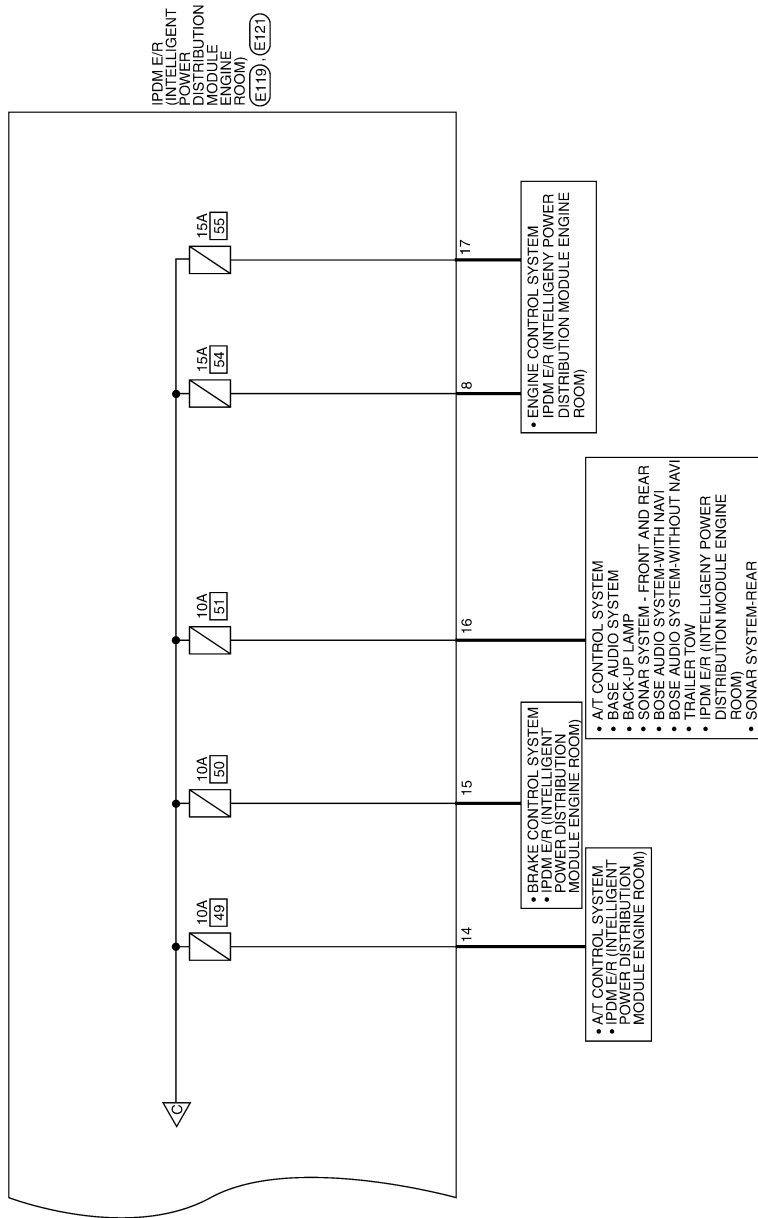
< COMPONENT DIAGNOSIS >



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POWER SUPPLY ROUTING CIRCUIT

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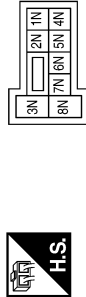
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POWER SUPPLY ROUTING CIRCUIT

< 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



Connector No.	M26
Connector Name	IGNITION SWITCH
Connector Color	WHITE

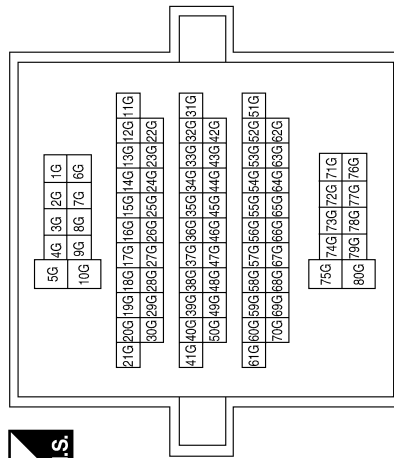


Terminal No.	Color of Wire	Signal Name
2N	W/R	-
3N	SB	-
5N	Y/G	-
7N	B	-
8N	L/R	-

Terminal No.	Color of Wire	Signal Name
5P	O/L	-
6P	W/L	-
7P	LG	-
9P	R/B	-
14P	O	-

Terminal No.	Color of Wire	Signal Name
IG1	B/R	-
IG2	R	-
ST	BR	-
B	G	-
ACC	-	-
R	LG	-

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



Terminal No.	Color of Wire	Signal Name
75G	G	-
77G	B/R	-



Connector No.	M37
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK

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

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POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Connector No.	M66
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-

Connector No.	M39
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
1Q	G/R	-
2Q	R	-
3Q	Y/G	-
5Q	G	-
7Q	B/R	-

Connector No.	M38
Connector Name	FUSE BLOCK (J/B)
Connector Color	BLACK



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

Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-

Connector No.	E27
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BROWN



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

Connector No.	E7
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



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

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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
22	G	F/L MOTOR FAN
23	GR/W	HEATED MIRROR

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					

Terminal No.	Color of Wire	Signal Name
8	R/B	O2 SENSOR
11	Y/B	A/C COMPRESSOR
12	L/W	IGN SW (IG)
13	B/Y	FUEL PUMP
14	Y/R	A/T CU IGN SUPPLY
15	LG/B	ABS IGN SUPPLY
16	G	REVERSE LAMP
17	W	INJECTOR

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



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

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	B/W	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
46	GR	FUEL PUMP RLY CONT

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/B	TTOW REV LAMP
32	L	FR WIPER LO
35	L/B	FR WIPER HI

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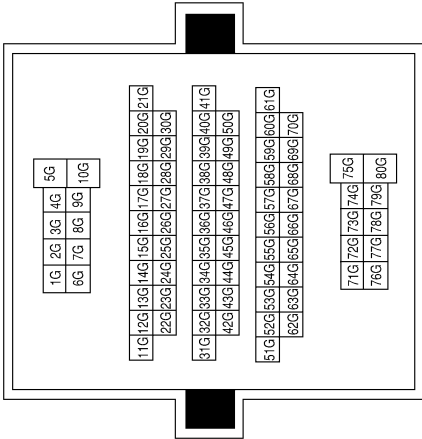
POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

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Terminal No.	Color of Wire	Signal Name
75G	G	-
77G	B/R	-

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



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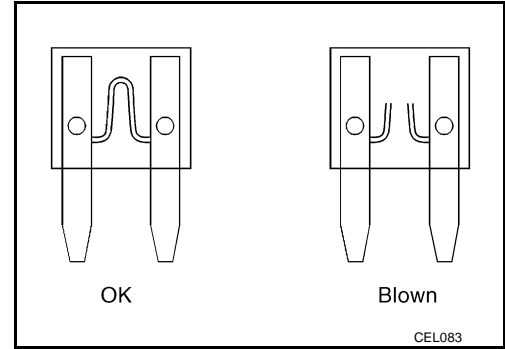
POWER SUPPLY ROUTING CIRCUIT

< COMPONENT DIAGNOSIS >

Fuse

INFOID:000000003708989

- 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

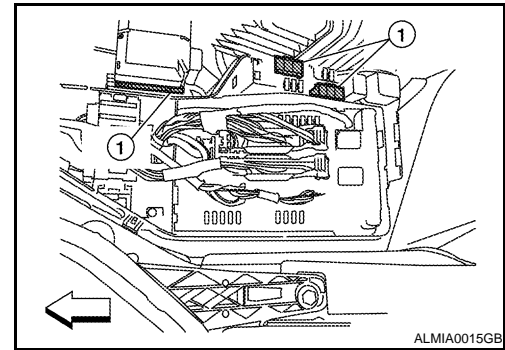
INFOID:000000003708990

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

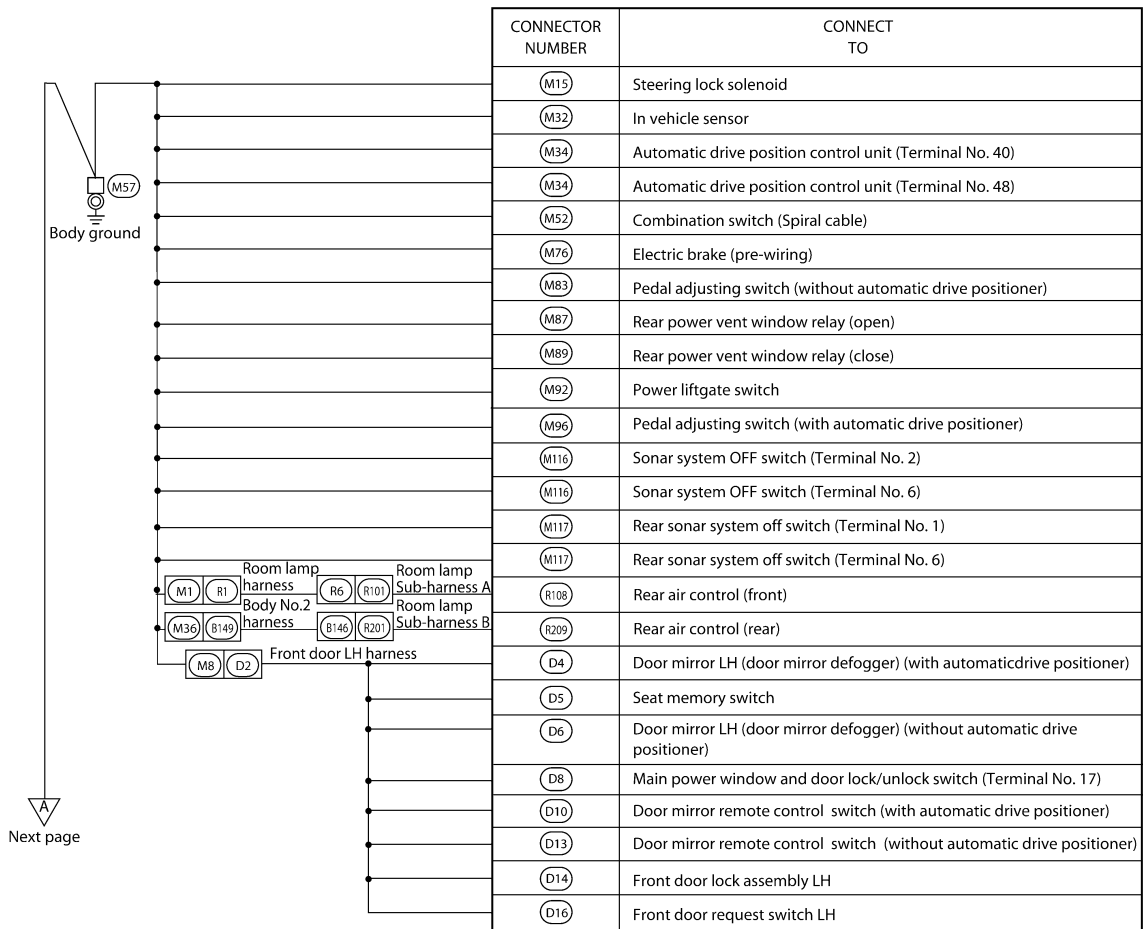
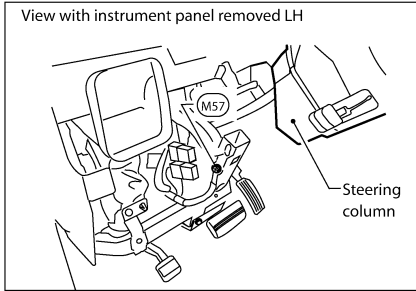
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GROUND

Ground Distribution

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MAIN HARNESS

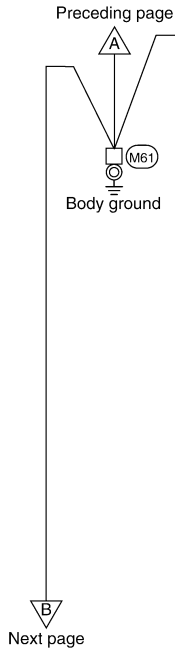
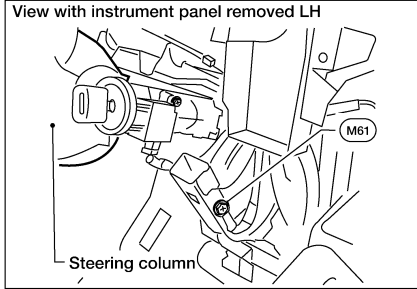


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< COMPONENT DIAGNOSIS >

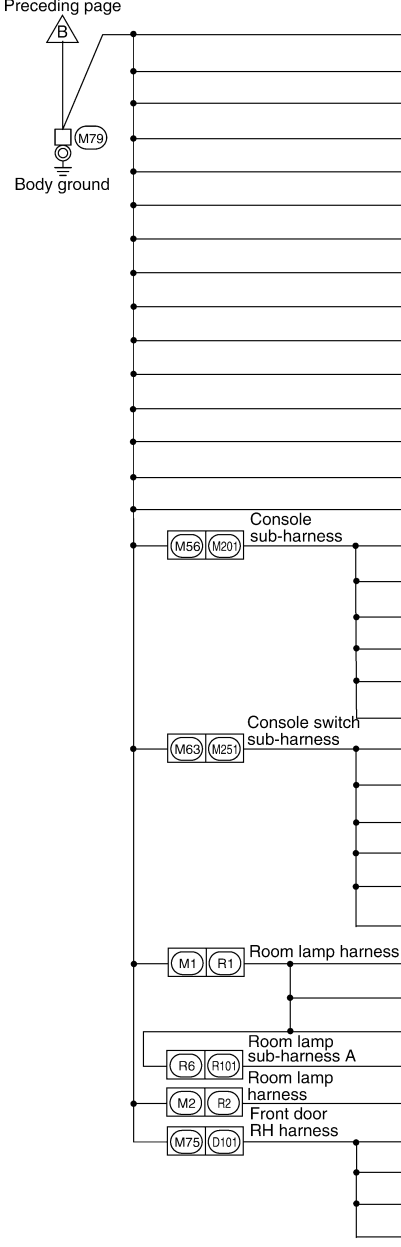
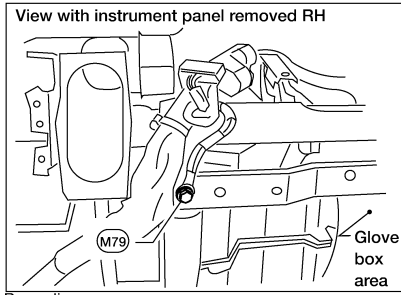


CONNECTOR NUMBER	CONNECT TO
(M17)	Steering angle sensor
(M20)	BCM (body control module) (Terminal No. 67)
(M21)	NATS antenna amp.
(M22)	Data link connector (Terminal No. 4)
(M22)	Data link connector (Terminal No. 5)
(M23)	Combination meter (Terminal No. 52)
(M24)	Combination meter (Terminal No. 9)
(M28)	Combination switch (Terminal No. 12)
(M35)	Air bag diagnosis sensor unit (Terminal No. 2)
(M42)	AV control unit (with base audio system) (Terminal No. 20)
(M44)	AV control unit (with base audio system)(Terminal No. 54)
(M46)	AV control unit (with base audio system)(Terminal No. 85)
(M47)	Sonar buzzer
(M50)	A/C auto amp. (Terminal No. 36)
(M51)	Trailer tow relay 1
(M70)	Intelligent key unit (Terminal No. 12)
(M107)	Front blower relay
(M112)	BOSE speaker amp. (Terminal No. 12)
(M122)	Variable blower control (Front)
(M139)	Diode-1
(M160)	AV control unit (with BOSE audio system-without NAVI) (Terminal No. 20)
(M165)	AV control unit (with NAVI) (Terminal No. 65)
(M165)	AV control unit (with NAVI) (Terminal No. 67)
(M165)	AV control unit (with NAVI) (Terminal No. 86)
(M165)	AV control unit (with NAVI) (Terminal No. 87)
(M166)	AV control unit (with BOSE audio system-without NAVI) (Terminal No. 85)
(M171)	AV control unit (with BOSE audio system-without NAVI) (Terminal No. 54)

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GROUND

< COMPONENT DIAGNOSIS >



CONNECTOR NUMBER	CONNECT TO
(M3)	Fuse block J/B
(M13)	Front passenger air bag off indicator
(M42)	AV control unit (with base audio system) (Terminal No. 20)
(M53)	Front power socket LH
(M54)	Front power socket RH (for cigarette lighter)
(M55)	Hazard switch
(M59)	Glove box lamp
(M81)	Shift lock control unit (Terminal No. 8)
(M93)	Display unit (with NAVI) (Terminal No. 1)
(M95)	Rear power vent window switch
(M96)	A/C and AV switch assembly
(M160)	AV control unit (bose audio system-without NAVI) (Terminal No. 20)
(M161)	AV control unit (with NAVI) (Terminal No. 20)
(M168)	Display unit (with NAVI) (Terminal No. 13)
(M168)	Display unit (with NAVI) (Terminal No. 1)
(M203)	A/T device (with intelligent key system) (Terminal No. 2)
(M203)	A/T device (with intelligent key system) (Terminal No. 8)
(M204)	A/T device (without intelligent key system) (Terminal No. 2)
(M204)	A/T device (without intelligent key system) (Terminal No. 8)
(M205)	DVD player (Terminal No. 5)
(M207)	Console power socket
(M252)	Front heated seat switch RH
(M253)	VDC off switch
(M255)	Front heated seat switch LH
(M258)	Tow mode switch (Terminal No.2)
(M258)	Tow mode switch (Terminal No.6)
(M260)	Heated steering wheel switch
(R3)	Vanity lamp LH
(R7)	Auto anti-dazzling inside mirror
(R8)	Vanity lamp RH
(R102)	Front room/map lamp assembly
(R4)	Sunroof motor assembly
(D105)	Power window and door lock/unlock switch RH
(D106)	Door mirror RH (door mirror defogger) (without automatic drive positioner)
(D107)	Door mirror RH (door mirror defogger) (with automatic drive positioner)
(D116)	Front door request switch RH

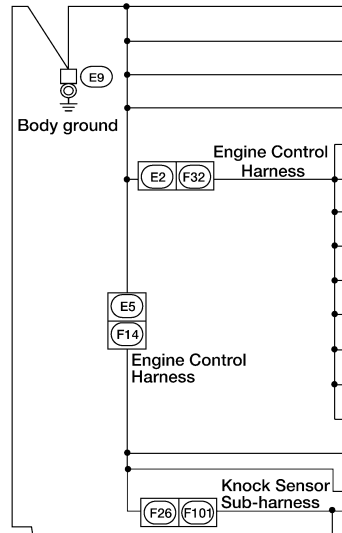
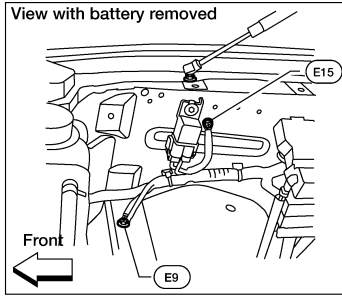
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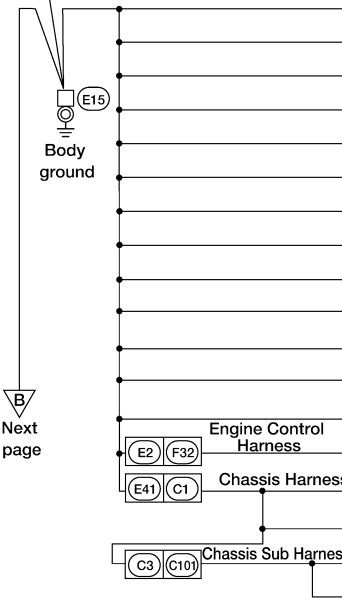
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< COMPONENT DIAGNOSIS >

ENGINE ROOM HARNESS



CONNECTOR NUMBER	CONNECT TO
(E16)	ECM (Terminal No. 115)
(E16)	ECM (Terminal No. 116)
(E142)	Transfer control unit (Terminal No. 6)
(E143)	Transfer control unit (Terminal No. 45)
(F9)	A/T assembly (Terminal No. 10)
(F9)	A/T assembly (Terminal No. 5)
(F11)	Crankshaft position sensor (POS)
(F23)	Camshaft position sensor (PHASE)
(F50)	Electric throttle control actuator (throttle position sensor shield)
(F54)	ECM (Terminal No. 1)
(F56)	Transfer terminal cord assembly
(F62)	Intake valve timing control position sensor (bank 1)
(F64)	Intake valve timing control position sensor (bank 2)
(F5)	Air fuel ratio (A/F) sensor 1 (bank 2) shield
(F65)	Air fuel ratio (A/F) sensor 1 (bank 1) shield
(F102)	Knock sensor (bank 1) shield
(F104)	Knock sensor (bank 2) shield



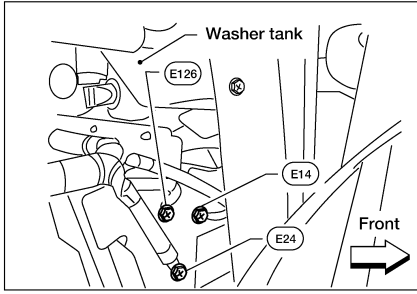
CONNECTOR NUMBER	CONNECT TO
(E3)	Horn
(E6)	Front combination lamp LH (headlamp) (with daytime light system)(Terminal No. 3)
(E6)	Front combination lamp LH (headlamp) (with daytime light system)(Terminal No. 4)
(E8)	Dropping resistor
(E11)	Front combination lamp LH (headlamp) (without daytime light system)(Terminal No. 3)
(E11)	Front combination lamp LH (headlamp) (without daytime light system)(Terminal No. 4)
(E17)	Fuel pump control module (FPCM) (Terminal No. 1)
(E21)	Brake fluid level switch
(E102)	Front fog lamp RH
(E103)	Daytime light relay
(E113)	Cooling fan motor
(E116)	Condenser-2
(E130)	Compressor motor relay
(F54)	ECM (Terminal No. 38)
(C5)	Fuel level sensor unit and fuel pump (without flex fuel)
(C12)	Fuel level sensor unit and fuel pump (with flex fuel)
(C106)	License plate lamp LH
(C107)	License plate lamp RH

Next page

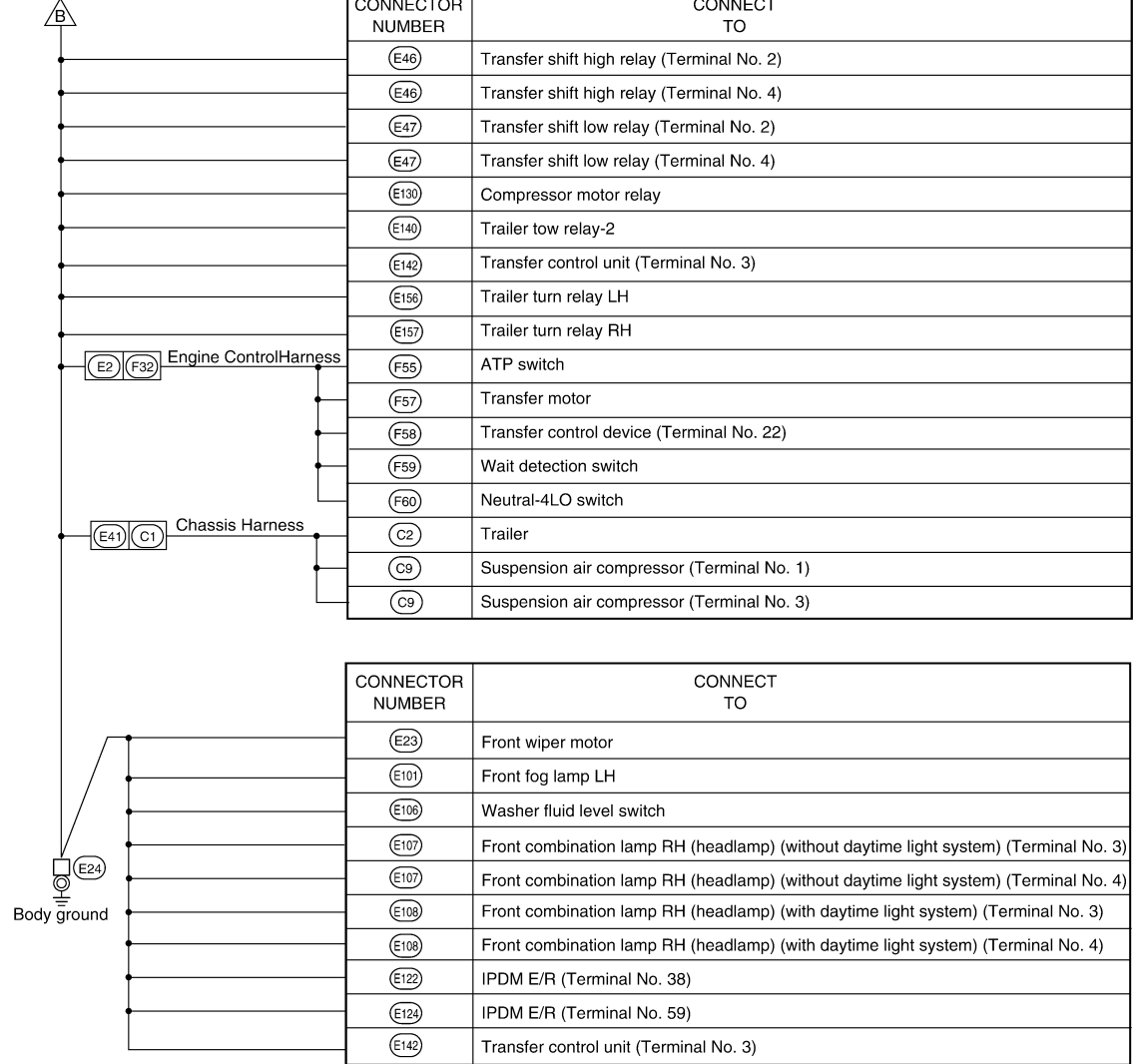
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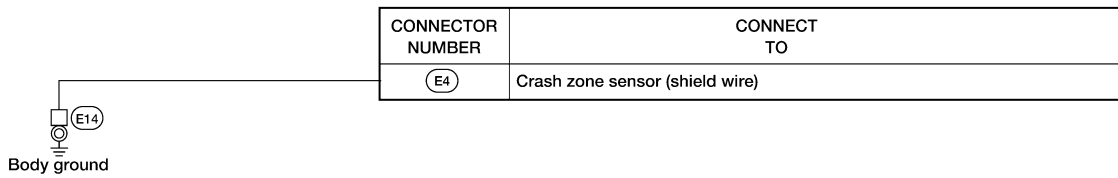
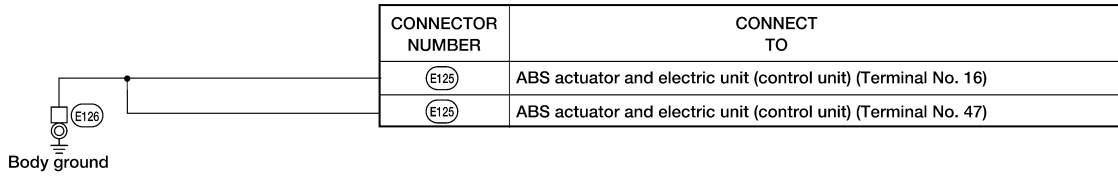
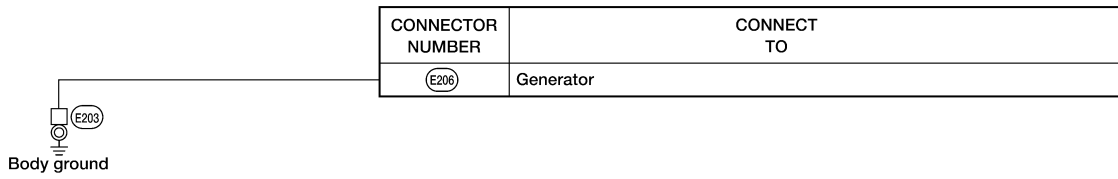
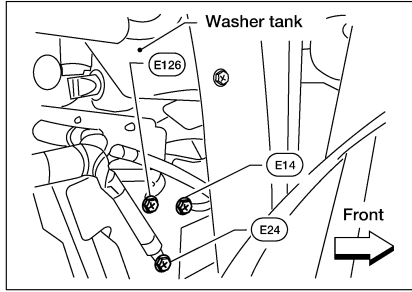
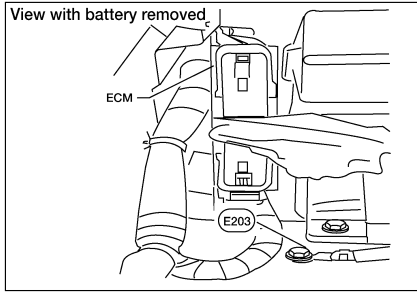


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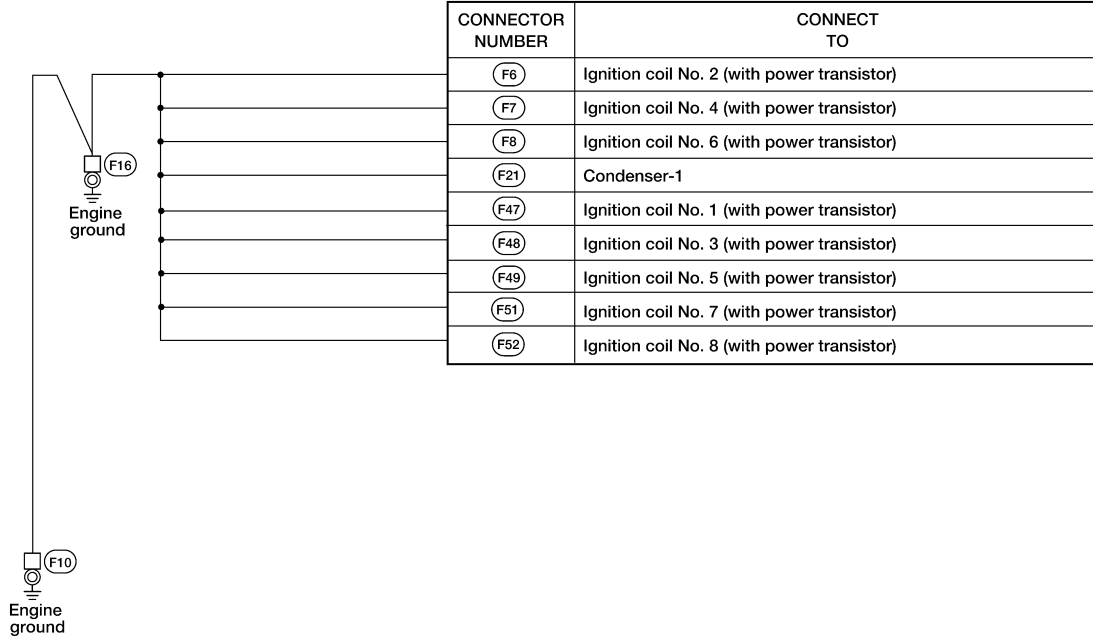
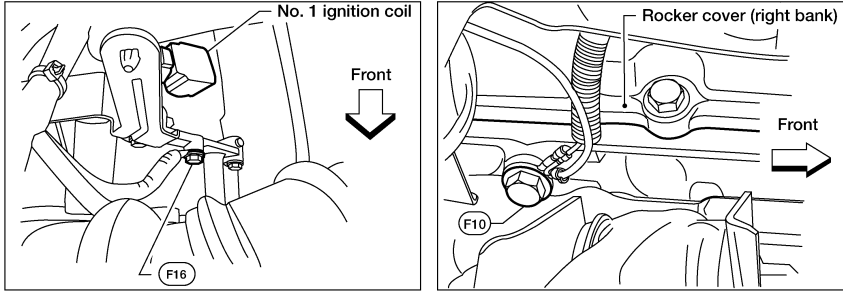
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< COMPONENT DIAGNOSIS > ENGINE CONTROL HARNESS



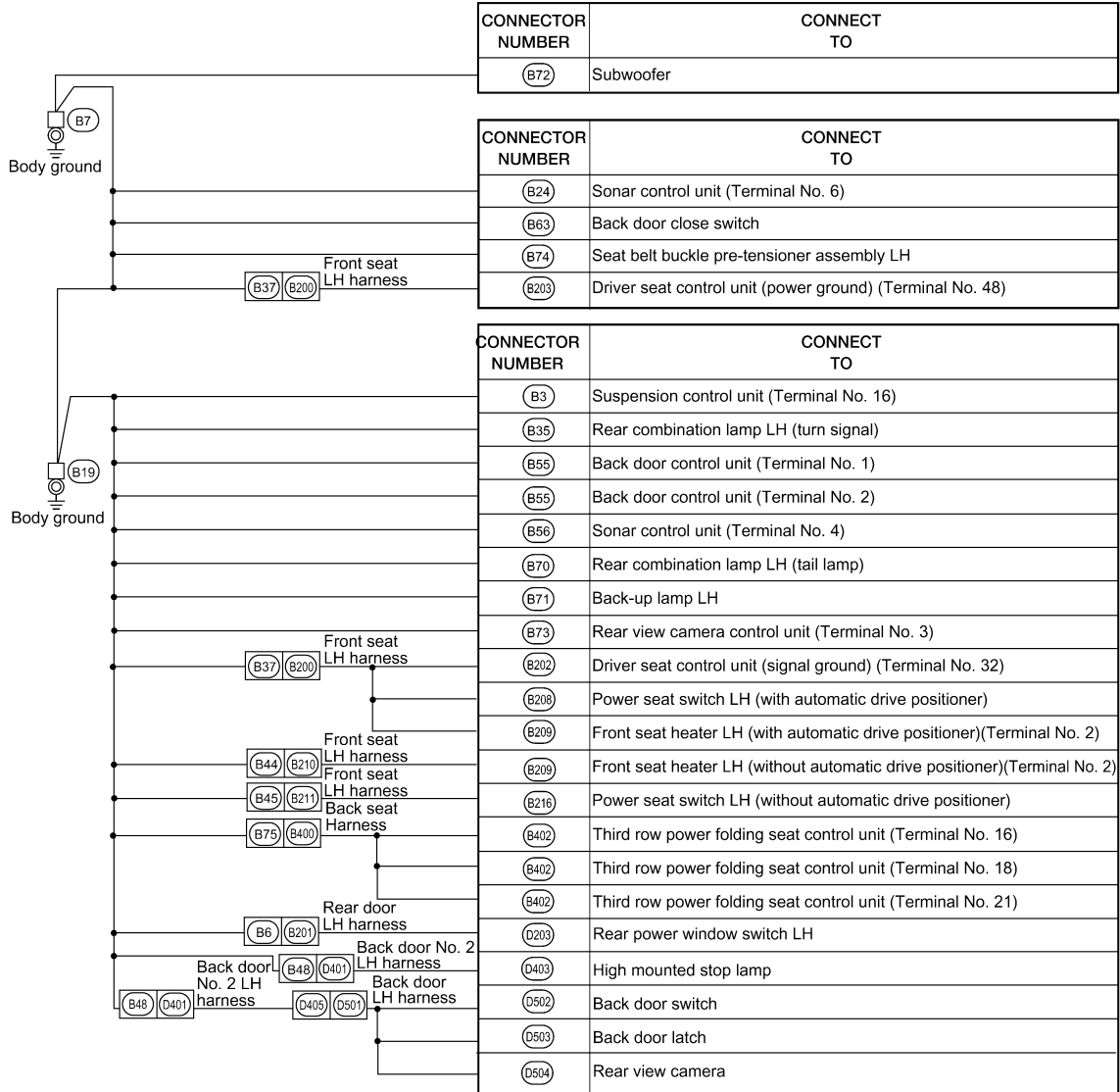
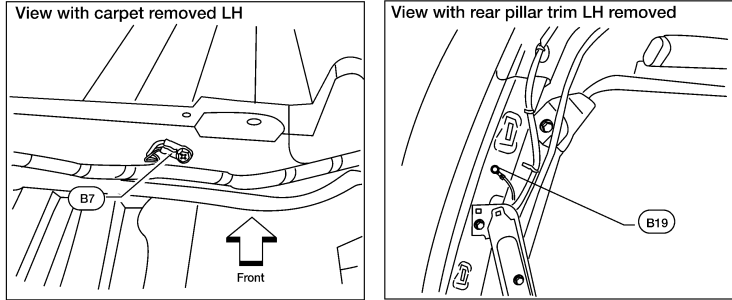
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BODY HARNESS

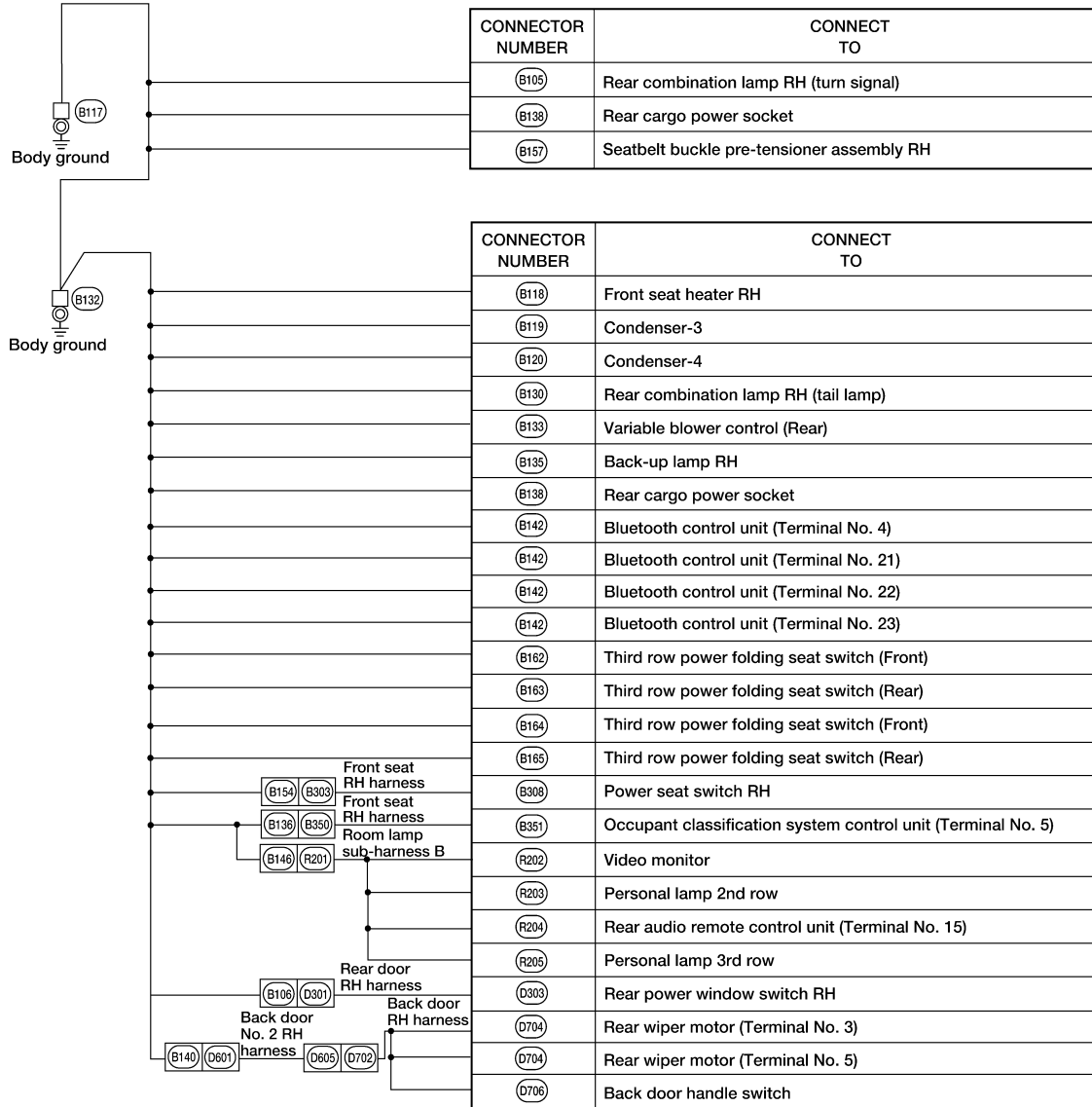
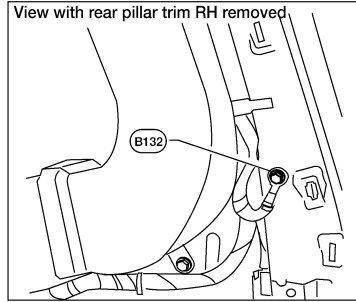
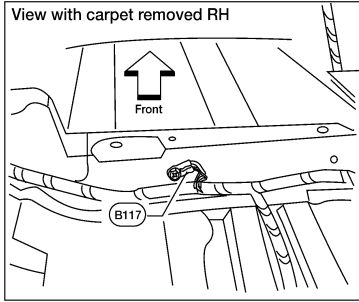


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BODY NO. 2 HARNESS



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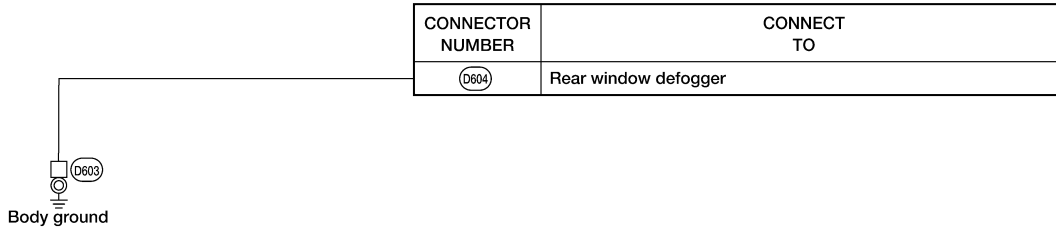
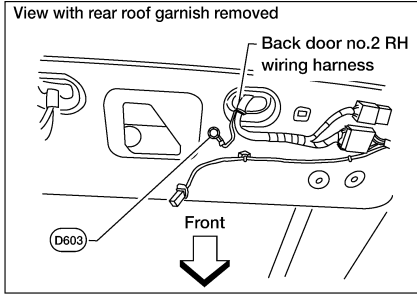
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BACK DOOR NO. 2 RH HARNESS



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HARNESS

< COMPONENT DIAGNOSIS >

HARNESS

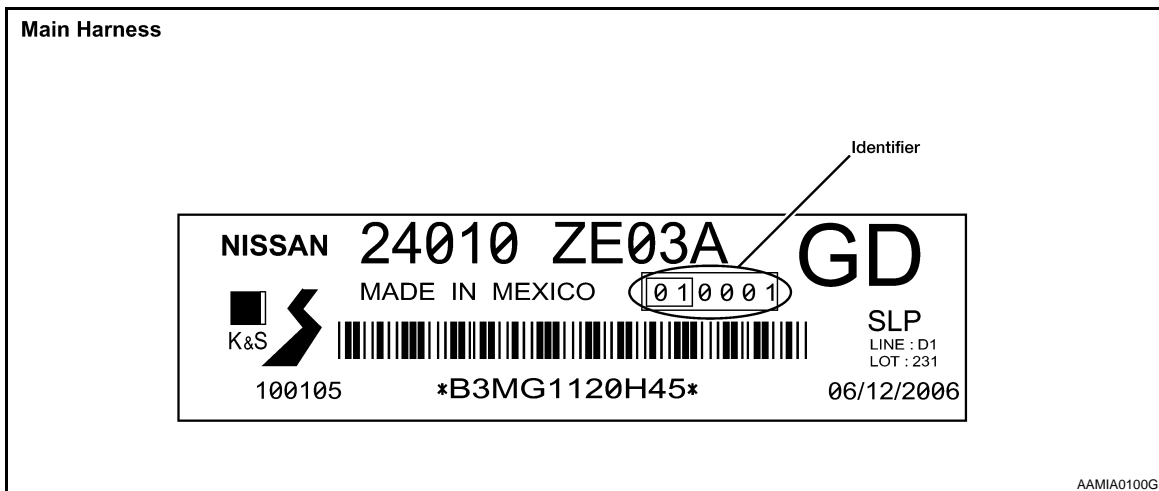
Harness Layout

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HOW TO IDENTIFY TYPE A AND TYPE B MAIN HARNESSSES

The differences between Type A and type B harnesses are minimal and mainly consist of differences in the circuit connections to the fuse block (J/B).

Determine type of harness by locating the Nissan Name Plate on the main harness. This can be found on the main harness near SMJ M31 connector above the right hand lower side dash finisher. Find the six digit number on Nissan Name Plate. If the number ends in 001, it is a Type A harness, any other number indicates a Type B harness.



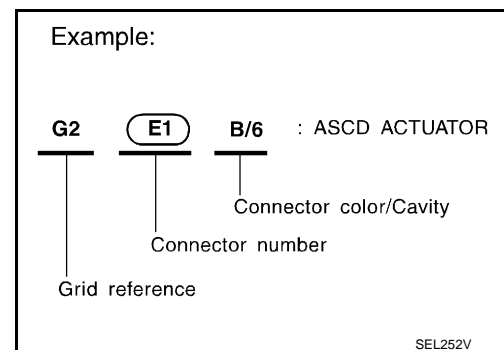
HOW TO READ HARNESS LAYOUT

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

- Main Harness, Console Sub-harness, Console Switch Sub-harness and Optical Sensor Sub-harness
- Engine Room Harness and Engine Room Sub-harness
- Engine Room Harness (Passenger Compartment)
- Engine Control Harness
- Chassis Harness and Rear Sonar Sensor Sub-harness
- Body Harness, Left Front Seat Harness and Third Row Power Folding Seat Sub-harness
- Body No. 2 Harness and Right Front Seat Harness
- Room Lamp Harness, Room Lamp Sub-harness A and Room Lamp Sub-harness B
- Back Door Harness, Back Door No. 2 Harness, Back Door RH Harness, Back Door LH Harness and Back Door No. 2 RH Harness

To use the grid reference

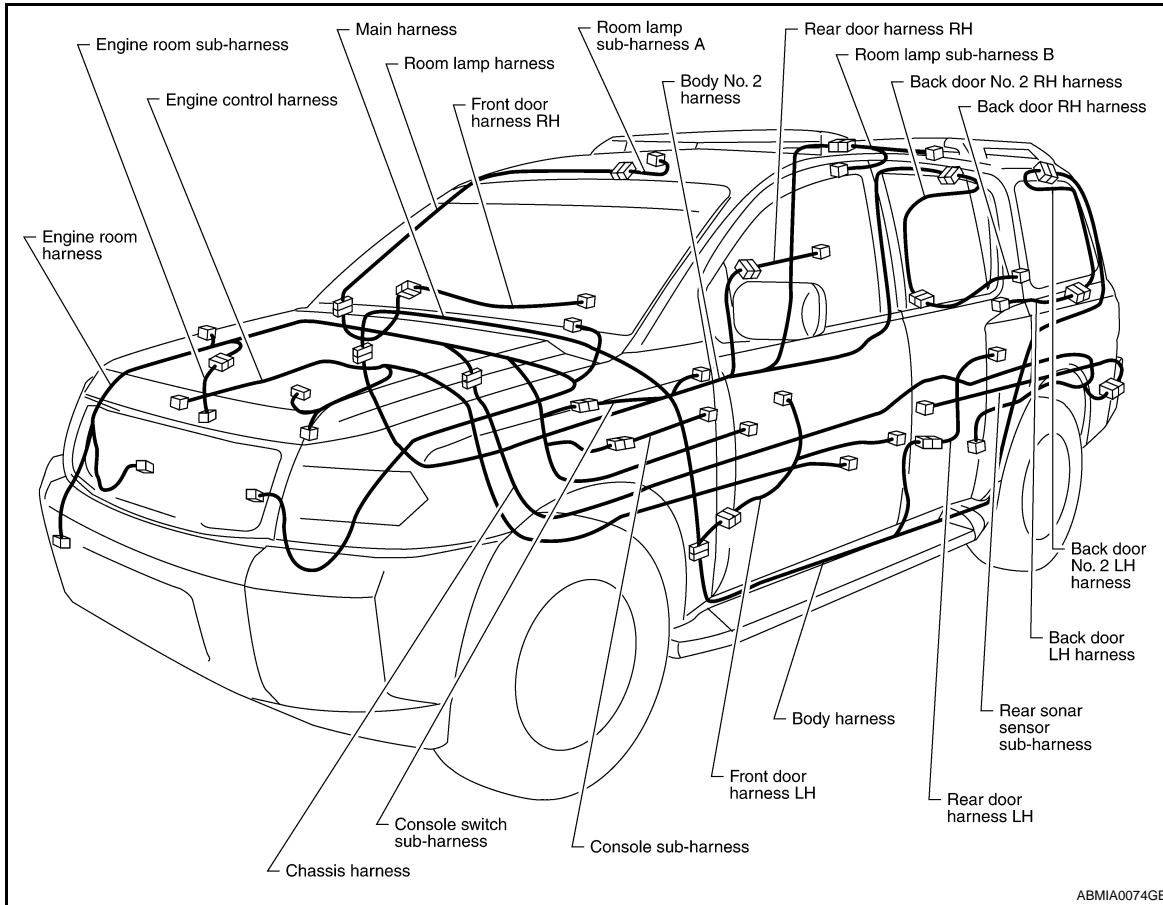
1. Find the desired connector number on the connector list.
2. Find the grid reference.
3. On the drawing, find the crossing of the grid reference letter column and number row.
4. Find the connector number in the crossing zone.
5. Follow the line (if used) to the connector.



HARNESS

< COMPONENT DIAGNOSIS >

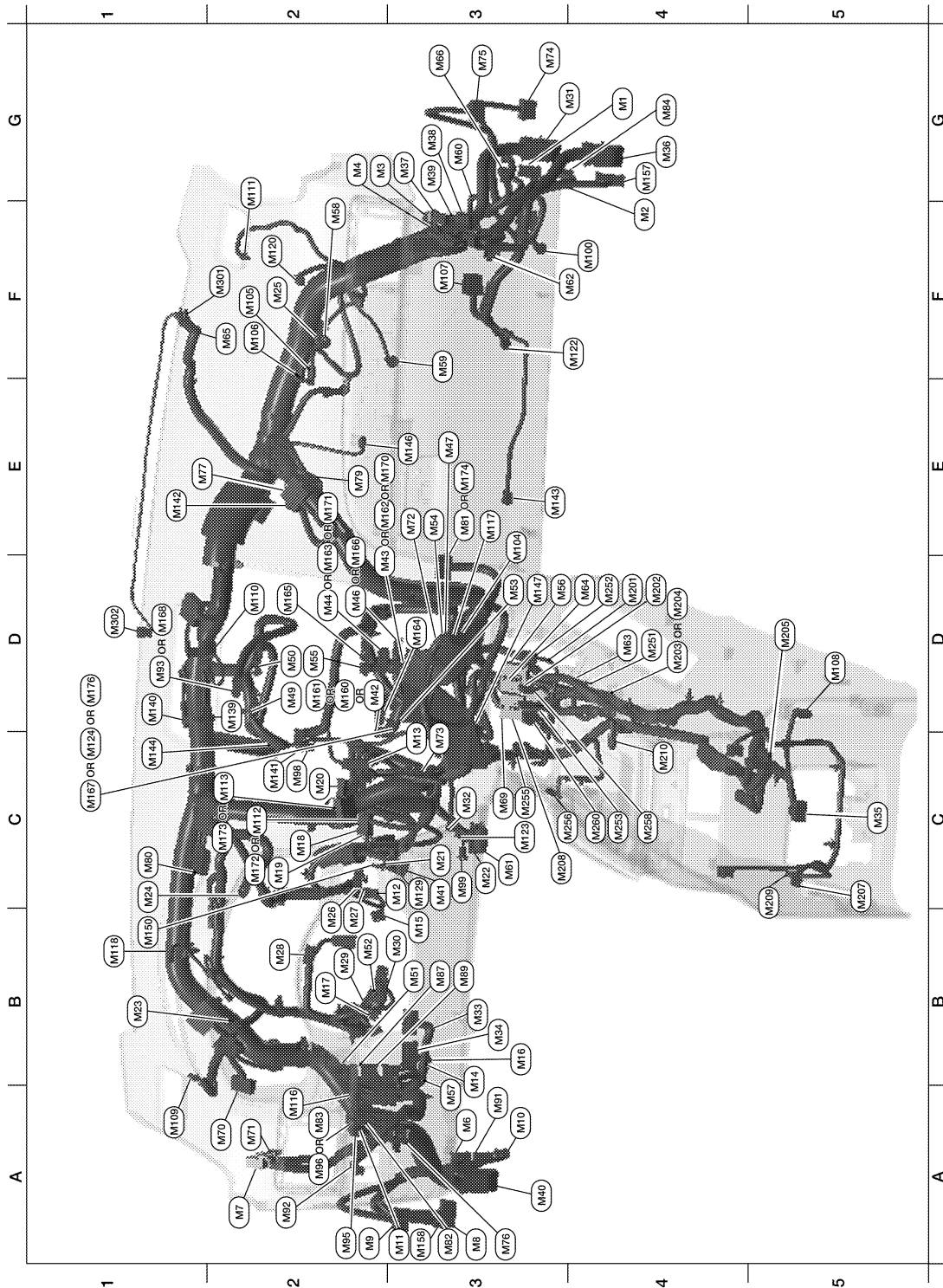
OUTLINE



HARNESS

< COMPONENT DIAGNOSIS >

MAIN HARNESS



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G4	M1	W/16	: To R1	G4	M84	W/16	: To B101
F4	M2	W/12	: To R2	B3	M87	B/5	: Rear power vent window relay (open)
G2	M3	W/8	: Fuse block (J/B)	B3	M89	B/5	: Rear power vent window relay (close)
G2	M4	W/16	: Fuse block (J/B)	A3	M91	W/16	: To E26

HARNESS

< COMPONENT DIAGNOSIS >

A3	M6	W/10	: To E10	A2	M92	GR/6	: Power liftgate switch
A2	M7	B/5	: Passenger select unlock relay	D1	M93	W/24	: Display unit (without NAVI)
A3	M8	W/16	: To D2	A2	M95	W/6	: Rear power vent window switch
A2	M9	BR/24	: To D1	A2	M96	BR/6	: Pedal adjusting switch (with automatic drive positioner)
A3	M10	Y/4	: To E29	C2	M98	W/16	: A/C and AV switch assembly
A3	M11	B/1	: Parking brake switch	C3	M99	BR/2	: Foot lamp LH
C3	M12	GR/6	: Key switch and ignition knob switch	F4	M100	BR/2	: Foot lamp RH
D3	M13	BR/2	: Front passenger air bag OFF indicator	E3	M104	W/4	: Aux jack
B3	M14	B/2	: Diode-3	F2	M105	Y/2	: Front passenger air bag module
B3	M15	W/4	: Steering lock solenoid	F2	M106	O/2	: Front passenger air bag module
B3	M16	W/16	: Jumper Connector (type a harness)	F3	M107	B/5	: Front blower relay
B2	M17	W/8	: Steering angle sensor	D5	M108	B/6	: Yaw rate/ side/ decel G sensor
C2	M18	W/40	: BCM (body control module)	A1	M109	BR/2	: Front tweeter LH
C2	M19	W/15	: BCM (body control module)	D2	M110	BR/2	: Center speaker
C2	M20	B/15	: BCM (body control module)	F2	M111	BR/2	: Front tweeter RH
C3	M21	W/4	: NATS antenna amp.	C2	M112	BR/14	: BOSE speaker amp.
C3	M22	W/16	: Data link connector	C2	M113	BR/23	: BOSE speaker amp.
B1	M23	W/12	: Combination meter	A2	M116	GR/8	: Sonar system OFF switch
C1	M24	W/40	: Combination meter	E3	M117	GR/8	: Rear sonar system OFF switch
F2	M25	B/4	: Remote keyless entry receiver	B1	M118	B/2	: Front sonar buzzer
B2	M26	W/6	: Ignition switch	F2	M120	W/4	: Remote keyless entry receiver
B2	M27	W/4	: Key switch and key lock solenoid	F4	M122	W/4	: Variable blower control (front)
B2	M28	W/16	: Combination switch	C3	M123	W/2	: Tire pressure warning check connector
B2	M29	Y/6	: Combination switch (spiral cable)	C1	M124	GR/3	: AV control unit (with base audio system)
B3	M30	GR/8	: Combination switch (spiral cable)	C3	M129	V/1	: Satellite radio tuner
G4	M31	SMJ	: To E152	D2	M139	B/2	: Diode-1
C3	M32	W/4	: In-vehicle sensor	D1	M140	B/2	: Diode-2
B3	M33	W/32	: Automatic drive position control unit	C2	M141	GR/8	: 4WD shift switch
B3	M34	W/16	: Automatic drive position control unit	E1	M142	B/6	: Mode door motor (front)
C5	M35	Y/28	: Air bag diagnosis sensor unit	E3	M143	B/6	: Air mix door motor (passenger)
G4	M36	SMJ	: To B149	C1	M144	B/6	: Defroster door motor
G3	M37	B/1	: Fuse block (J/B)	E3	M146	GR/2	: Intake sensor
G3	M38	B/2	: Fuse block (J/B)	D3	M147	B/6	: Air mix door motor (driver)
G3	M39	W/8	: Fuse block (J/B)	B1	M150	W/2	: Ignition keyhole illumination
A3	M40	SMJ	: To B69	G4	M157	W/20	: To B161
C3	M41	W/16	: Satellite radio tuner or pre-wiring for satellite radio tuner	A3	M158	W/10	: To D3
D2	M42	W/20	: AV control unit (with base audio system)	D2	M160	W/20	: AV control unit (with base audio system-without NAVI)
D2	M43	W/12	: AV control unit (with base audio system)	D2	M161	W/20	: AV control unit (with NAVI)
D2	M44	W/24	: AV control unit (with base audio system)	D2	M162	W/12	: AV control unit (with NAVI)
D2	M46	W/32	: AV control unit (with base audio system)	D2	M163	W/32	: AV control unit (with NAVI)

HARNESS

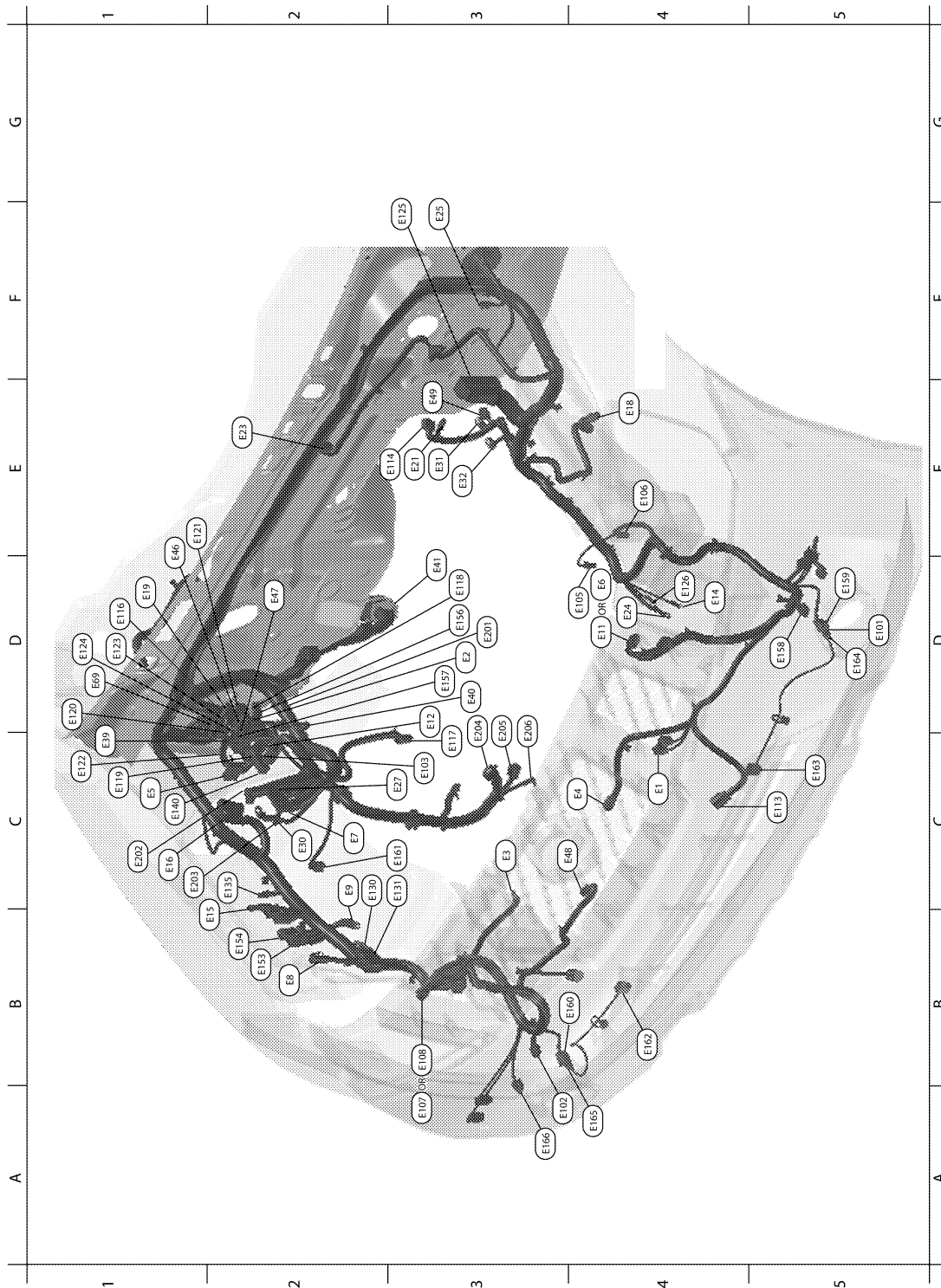
< COMPONENT DIAGNOSIS >

E3	M47	B/2	: Sonar buzzer	D3	M164	W/16	: AV control unit (with base audio system-without NAVI)	A
D2	M49	B/26	: A/C auto amp.	D2	M165	W/40	: AV control unit (with NAVI)	B
D2	M50	L/26	: A/C auto amp.	D2	M166	W/32	: AV control unit (with base audio system-without NAVI)	B
B3	M51	L/4	: Trailer tow relay 1	C1	M167	GR/3	: AV control unit (with NAVI)	C
B2	M52	W/2	: Combination switch (spiral cable)	D1	M168	W/24	: Display unit (with NAVI)	C
D3	M53	B/3	: Front power socket LH	D2	M170	W/12	: AV control unit (with base audio system-without NAVI)	D
E3	M54	B/3	: Front power socket RH (for cigarette lighter)	D2	M171	W/24	: AV control unit (with base audio system-without NAVI)	D
D2	M55	W/4	: Hazard switch	C1	M176	GR/3	: AV control unit (with base audio system-without NAVI)	E
D4	M56	W/16	: To M201	Console sub-harness				E
A3	M57	—	: Body ground	D4	M201	W/16	: To M56	F
F2	M58	B/6	: Intake door motor	D4	M202	BR/24	: To M64	F
F3	M59	BR/2	: Glove box lamp	D4	M203	W/12	: A/T device (with intelligent key system)	F
G3	M60	W/6	: Fuse block (J/B)	D4	M204	W/12	: A/T device (without intelligent key system)	G
C3	M61	—	: Body ground	D5	M205	W/32	: DVD player	G
F4	M62	B/2	: Front blower motor	C5	M207	B/3	: Console power socket	H
D4	M63	BR/20	: To M251	C4	M208	BR/20	: To M69	H
D4	M64	BR/24	: To M202	C5	M209	W/2	: Inside key antenna 1 (rear of center console)	I
F2	M65	W/4	: To M301	C4	M210	GR/2	: Inside key antenna 3 (front of center console)	I
G3	M66	B/1	: To E33	Console switch sub-harness				J
C3	M69	BR/20	: To M208	D4	M251	BR/20	: To M63	J
A2	M70	W/40	: Intelligent key unit	D4	M252	BR/6	: Front heated seat switch RH	K
A2	M71	L/4	: Heated steering relay	C4	M253	GR/6	: VDC OFF switch	K
E3	M72	W/12	: AV control unit (with base audio system-without NAVI)	C3	M255	BR/6	: Front heated seat switch LH	L
D3	M73	BR/6	: Back-up lamp relay	C4	M256	B/2	: A/T device (illumination)	L
G3	M74	BR/20	: To D102	C4	M258	GR/8	: Tow mode switch	O
G3	M75	W/10	: To D101	C4	M260	W/6	: Heated steering wheel switch	O
A3	M76	W/6	: Electric brake (pre-wiring)	Optical sensor sub-harness				PG
E2	M77	Y/4	: Front passenger air bag module (service replacement)	F2	M301	W/4	: To M65	N
E2	M79	—	: Body ground	F2	M302	B/4	: Optical sensor	N
C1	M80	B/2	: Resistor					O
E3	M81	GR/10	: Shift lock control unit					O
A3	M82	W/2	: Circuit breaker-2					P
A2	M83	BR/6	: Pedal adjusting switch (without automatic drive positioner)					P

HARNESS

< COMPONENT DIAGNOSIS >

ENGINE ROOM HARNESS



ABMIA0076GB

C4	E1	GR/2	: Ambient sensor	E3	E114	B/6	: Delta stroke motor
D3	E2	W/16	: To F32	D1	E116	W/2	: Condenser-2
C3	E3	B/2	: Horn	D3	E117	GR/2	: Front wheel sensor RH
C3	E4	Y/2	: Crash zone sensor	D3	E118	B/2	: IPDM E/R (intelligent power distribution module engine room)

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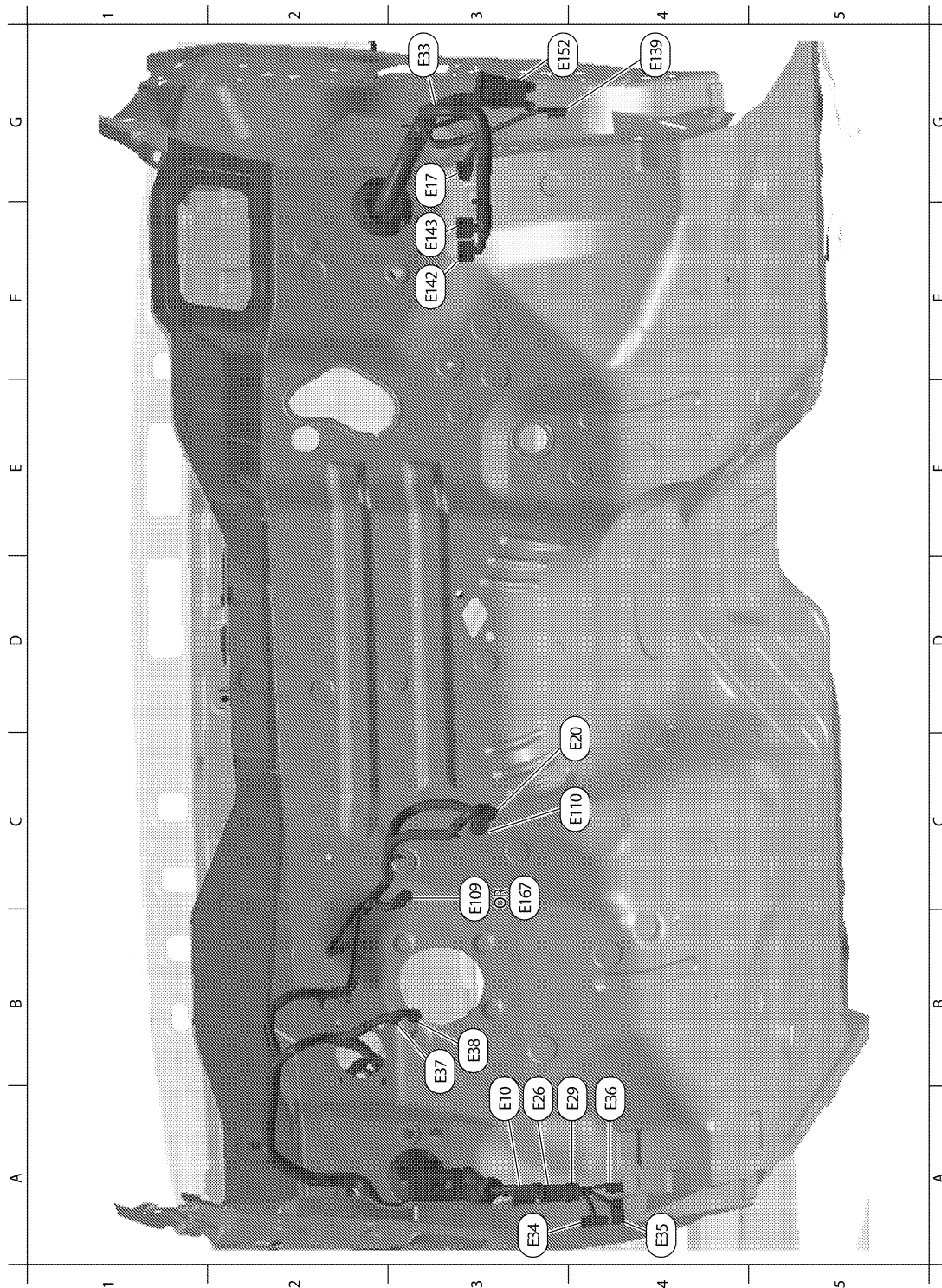
< COMPONENT DIAGNOSIS >

C1	E5	W/24	: To F14	C1	E119	W/16	: IPDM E/R (intelligent power distribution module engine room)	A	
D4	E6	B/6	: Front combination lamp LH (with daytime light system)	D1	E120	W/6	: IPDM E/R (intelligent power distribution module engine room)	B	
C2	E7	GR/2	: Fusible link box (battery)	D1	E120	W/6	: IPDM E/R (intelligent power distribution module engine room)	C	
B2	E8	GR/2	: Dropping resistor	E1	E121	BR/12	: IPDM E/R (intelligent power distribution module engine room)	D	
C2	E9	—	: Body ground	C1	E122	W/12	: IPDM E/R (intelligent power distribution module engine room)	E	
D4	E11	B/6	: Front combination lamp LH (without daytime running lights)	D1	E123	BR/8	: IPDM E/R (intelligent power distribution module engine room)	F	
D3	E12	B/5	: Stop lamp relay	D1	E124	B/6	: IPDM E/R (intelligent power distribution module engine room)	G	
D4	E14	—	: Body ground	F3	E125	B/47	: ABS actuator and electric unit (control unit)	H	
B2	E15	—	: Body ground	D4	E126	—	: Body ground	I	
C1	E16	B/40	: ECM	C2	E130	W/2	: Compressor motor relay	J	
E4	E18	GR/2	: Front wheel sensor LH	C3	E131	W/2	: Compressor motor relay	K	
D1	E19	W/16	: To F33	C2	E135	GR/2	: Transfer dropping resistor	L	
E3	E21	GR/2	: Brake fluid level switch	C1	E140	BR/6	: Trailer tow relay-2		
E2	E23	GR/6	: Front wiper motor	B2	E153	W/2	: Transfer motor relay		
D4	E24	—	: Body ground	B2	E154	W/2	: Transfer motor relay		
F3	E25	BR/3	: Intelligent key warning buzzer	D3	E156	L/4	: Trailer turn relay LH		
C3	E27	BR/2	: Fusible link box (battery)	D3	E157	L/4	: Trailer turn relay RH		
C2	E30	/1	: Fusible link box (battery)	D5	E158	B/3	: Front sonar sensor LH outer		
E3	E31	GR/3	: Front pressure sensor	D5	E159	GR/3	: To E164		
E3	E32	GR/3	: Rear pressure sensor	B4	E160	GR/3	: To E165		
C1	E39	W/2	: To F34	C3	E161	B/3	: Battery current sensor		
D3	E40	B/3	: To E201	B4	E162	B/3	: Front sonar sensor LH inner		
D3	E41	SMJ	: To C1	C5	E163	B/3	: Front sonar sensor RH inner		
E1	E46	B/5	: Transfer shift high relay	D5	E164	GR/3	: To E159		
D2	E47	B/5	: Transfer shift low relay	A4	E165	GR/3	: To E160		
C3	E48	B/3	: Refrigerant pressure sensor	A3	E166	B/3	: Front sonar sensor RH outer		
E3	E49	B/6	: Active booster	Engine room sub-harness					PG
D1	E69	L/4	: Transfer shut off relay	D3	E201	B/3	: To E40		
D5	E101	B/2	: Front fog lamp LH	C1	E202	/1	: Fusible link box (battery)		
A3	E102	B/2	: Front fog lamp RH	C1	E203	—	: Engine ground		
C3	E103	B/5	: Daytime light relay	C3	E204	/1	: Generator		
D4	E105	BR/2	: Front and rear washer motor	C3	E205	B/3	: Generator		
E4	E106	BR/2	: Washer fluid level switch	C3	E206	/1	: Generator		
B3	E107	B/6	: Front combination lamp LH (without daytime light system)					P	
B3	E108	B/6	: Front combination lamp LH (with daytime light system)						
C5	E113	W/2	: Cooling fan motor						

HARNESS

< COMPONENT DIAGNOSIS >

ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



ABMIA0077GB

A3	E10	W/10	: To M6			
G3	E17	W/4	: Fuel pump control module (FPCM)			
C4	E20	B/8	: Accelerator pedal position sensor			
A3	E26	W/16	: To M91			
A3	E29	Y/4	: To M10			

HARNES

< COMPONENT DIAGNOSIS >

G3	E33	B/1	: To M66						
A3	E34	W/24	: To B40						
A4	E35	W/12	: To B41						
A4	E36	W/2	: To B42						
B3	E37	BR/2	: ASCD brake switch						
B3	E38	B/2	: Stop lamp switch						
B3	E109	GR/2	: Pedal adjusting motor (with automatic drive positioner)						
C4	E110	GR/3	: Pedal adjusting sensor						
G4	E139	W/8	: To B107						
F3	E142	W/24	: Transfer control unit						
F3	E143	GR/24	: Transfer control unit						
G3	E152	SMJ	: To M31						
B3	E167	GR/2	: Pedal adjusting motor (without automatic drive positioner)						

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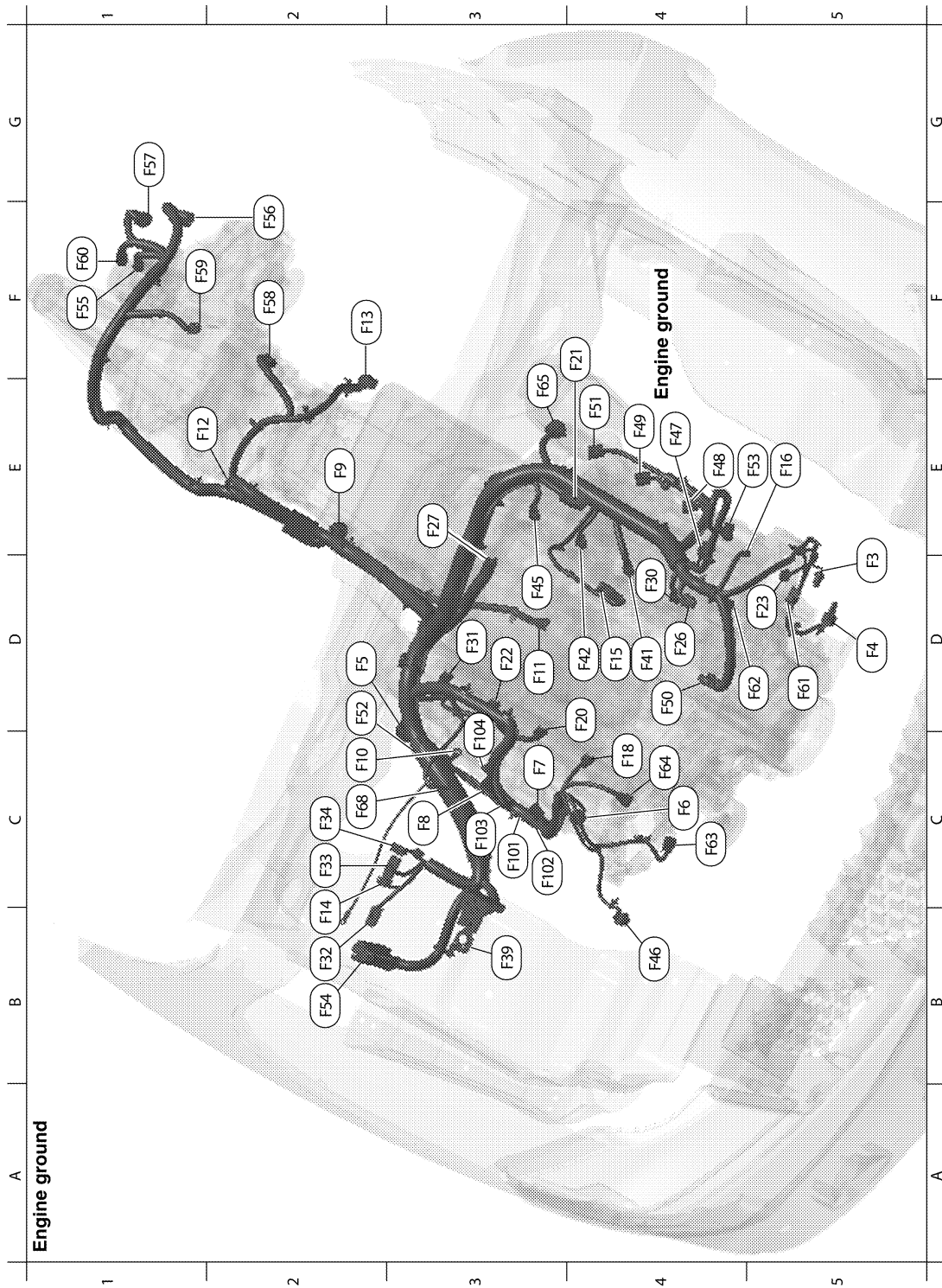
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< COMPONENT DIAGNOSIS > ENGINE CONTROL HARNESS



ABMIA0078GB

D5	F3	B/1	: A/C Compressor	F2	F56	B/8	: Transfer terminal cord assembly
D5	F4	GR/1	: Oil pressure switch	G1	F57	B/2	: Transfer motor
D2	F5	GR/4	: Air fuel ratio (A/F) sensor 1 (bank2)	F2	F58	GR/6	: Transfer control device
C4	F6	GR/3	: Ignition coil No. 2 (with power transistor)	F2	F59	B/2	: Wait detection switch

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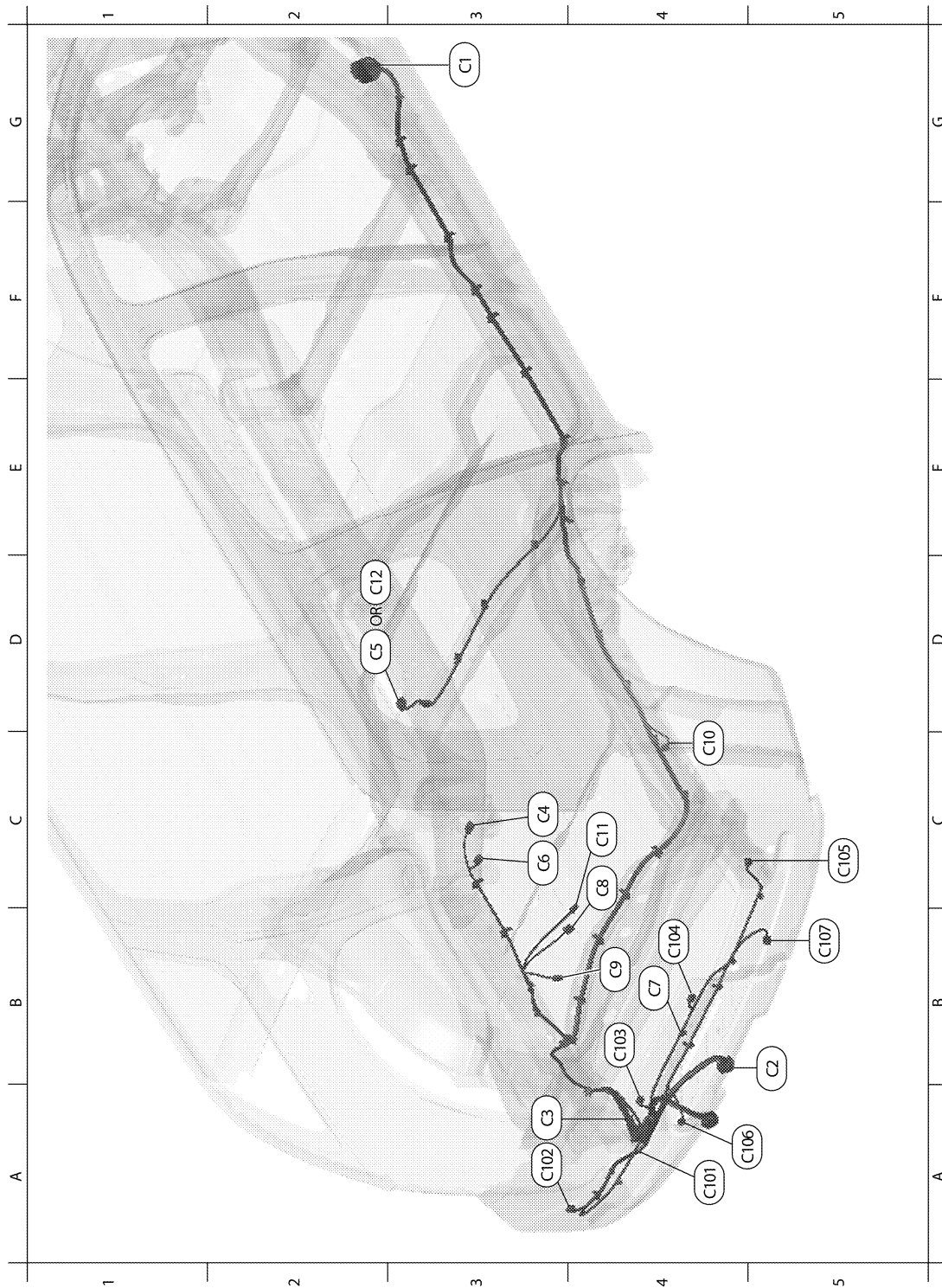
< COMPONENT DIAGNOSIS >

C3	F7	GR/3	: Ignition coil No. 4 (with power transistor)	F1	F60	GR/2	: Neutral-4LO switch	A
C3	F8	GR/3	: Ignition coil No. 6 (with power transistor)	D5	F61	G/2	: Intake valve timing control solenoid valve (bank 1)	B
E2	F9	G/10	: A/T assembly	D5	F62	B/3	: Intake valve timing control position sensor (bank 1)	B
C2	F10	—	: Engine ground	C4	F63	G/2	: Intake valve timing control solenoid valve (bank 2)	C
D3	F11	B/3	: Crankshaft position sensor (POS)	C4	F64	B/3	: Intake valve timing control position sensor (bank 2)	C
E1	F12	G/4	: Heated oxygen sensor 2 (bank2)	E3	F65	GR/4	: Air fuel ratio (A/F) sensor 1 (bank1)	D
F2	F13	G/4	: Heated oxygen sensor 2 (bank1)	C2	F68	GR/2	: Water valve	D
B2	F14	W/24	: To E5	Engine control sub-harness				E
D4	F15	GR/2	: EVAP canister purge volume control solenoid valve	C3	F101	B/6	: To F26	E
E5	F16	—	: Engine ground	C3	F102	B/2	: Knock sensor (bank 1)	F
C4	F18	GR/2	: Fuel injector No. 2	C3	F103	GR/2	: Engine coolant temperature sensor	F
D4	F20	GR/2	: Fuel injector No. 4	C3	F104	B/2	: Knock sensor (bank 2)	F
F4	F21	GR/2	: Condenser-1					G
D3	F22	GR/2	: Fuel injector No. 6					G
D4	F23	B/3	: Camshaft position sensor (phase)					H
D4	F26	B/6	: To F101					H
E3	F27	/1	: Starter motor					I
D4	F28	GR/1	: Starter motor					I
D4	F30	GR/2	: Fuel injector No. 1					J
D3	F31	GR/2	: Fuel injector No. 8					J
B2	F32	W/16	: To E2					K
C2	F33	W/16	: To E19					K
C2	F34	W/2	: To E39					K
B3	F39	—	: Fusible link (battery)					L
D4	F41	GR/2	: Fuel injector No. 3					L
D4	F42	GR/2	: Fuel injector No. 5					L
D3	F45	GR/2	: Fuel injector No. 7					M
B4	F46	B/3	: Power steering pressure sensor					PG
E4	F47	GR/3	: Ignition coil No. 1 (with power transistor)					N
E4	F48	GR/3	: Ignition coil No. 3 (with power transistor)					N
E4	F49	GR/3	: Ignition coil No. 5 (with power transistor)					O
D4	F50	W/6	: Electric throttle control actuator					O
E4	F51	GR/3	: Ignition coil No. 7 (with power transistor)					P
D2	F52	GR/3	: Ignition coil No. 8 (with power transistor)					P
E5	F53	B/6	: Mass air flow sensor					Q
B2	F54	B/81	: ECM					R
F1	F55	B/2	: ATP switch					R

HARNESS

< COMPONENT DIAGNOSIS >

CHASIS HARNESS



ABMIA0079GB

G2	C1	SMJ	: To E41			
B5	C2	B/7	: Trailer			
A3	C3	GR/8	: To C101			
C3	C4	GR/3	: Evap control system pressure sensor			

HARNESS

< COMPONENT DIAGNOSIS >

D2	C5	GR/5	: Fuel level sensor unit and fuel pump (without flex fuel)					A
C3	C6	B/2	: Evap canister vent control valve					
B4	C7	GR/2	: Rear bumper antenna					B
C4	C8	B/3	: Height sensor					
B4	C9	B/4	: Suspension air compressor					
C4	C10	BR/2	: Rear wheel sensor RH					C
C4	C11	BR/2	: Rear wheel sensor LH					
D2	C12	GR/5	: Fuel level sensor unit and fuel pump (with flex fuel)					D
Rear sonar sensor sub-harness								
A4	C101	GR/8	: To C3					E
A3	C102	B/3	: Rear sonar sensor LH outer					
B4	C103	B/3	: Rear sonar sensor LH inner					
B4	C104	B/3	: Rear sonar sensor RH inner					F
C5	C105	B/3	: Rear sonar sensor RH outer					
A5	C106	GR/2	: License plate lamp LH					G
B5	C107	GR/2	: License plate lamp RH					

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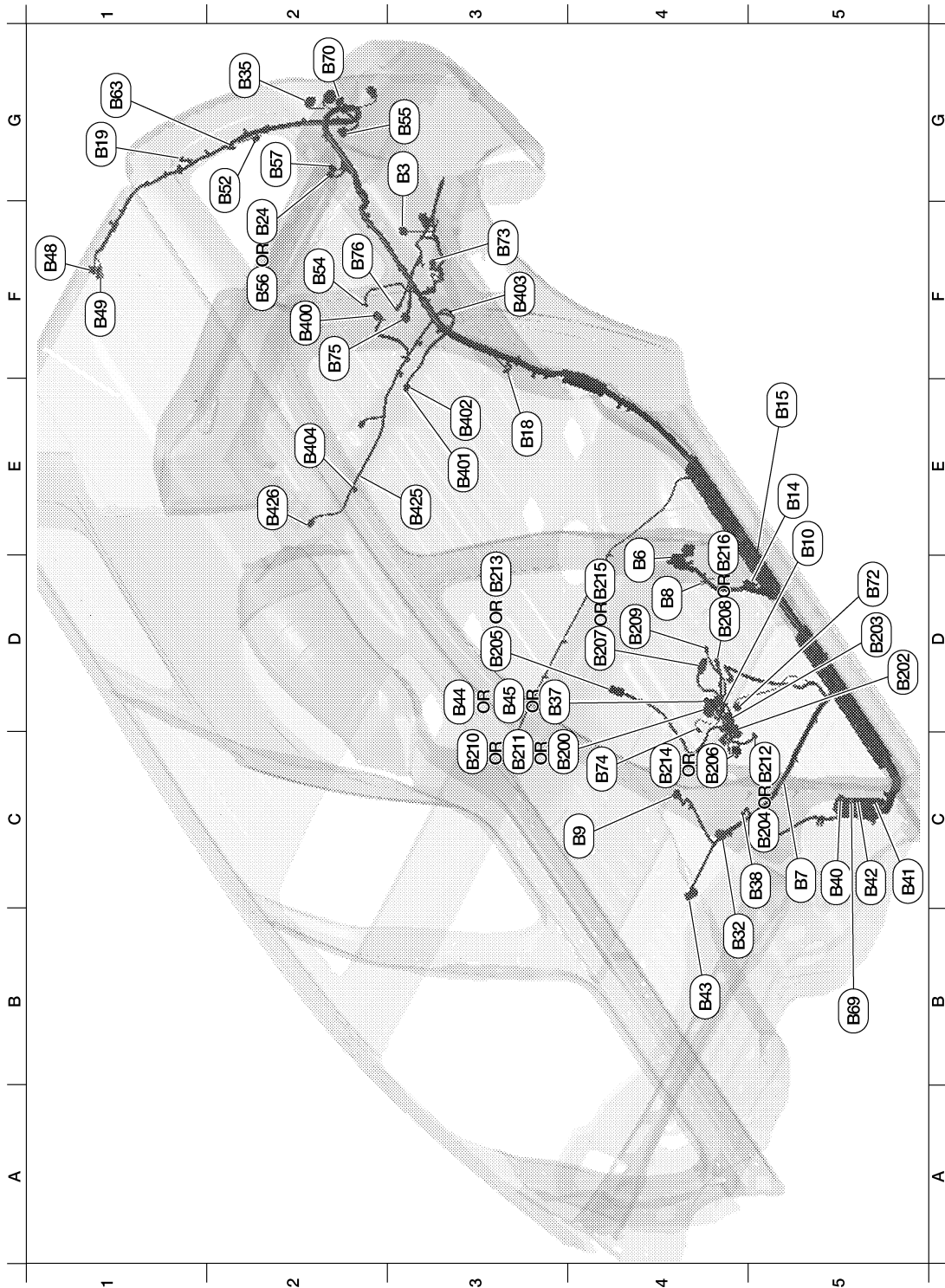
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< COMPONENT DIAGNOSIS >

BODY HARNESS



ABMIA0080GB

G3	B3	W/16	: Suspension control unit	D5	B202	W/32	: Driver seat control unit
D4	B6	W/18	: To D201	D5	B203	W/16	: Driver seat control unit
C5	B7	—	: Body ground	C4	B204	GR/5	: Sliding motor LH (with automatic drive positioner)
D4	B8	W/3	: Front door switch LH	D3	B205	W/4	: Reclining motor LH (with automatic drive positioner)

HARNESS

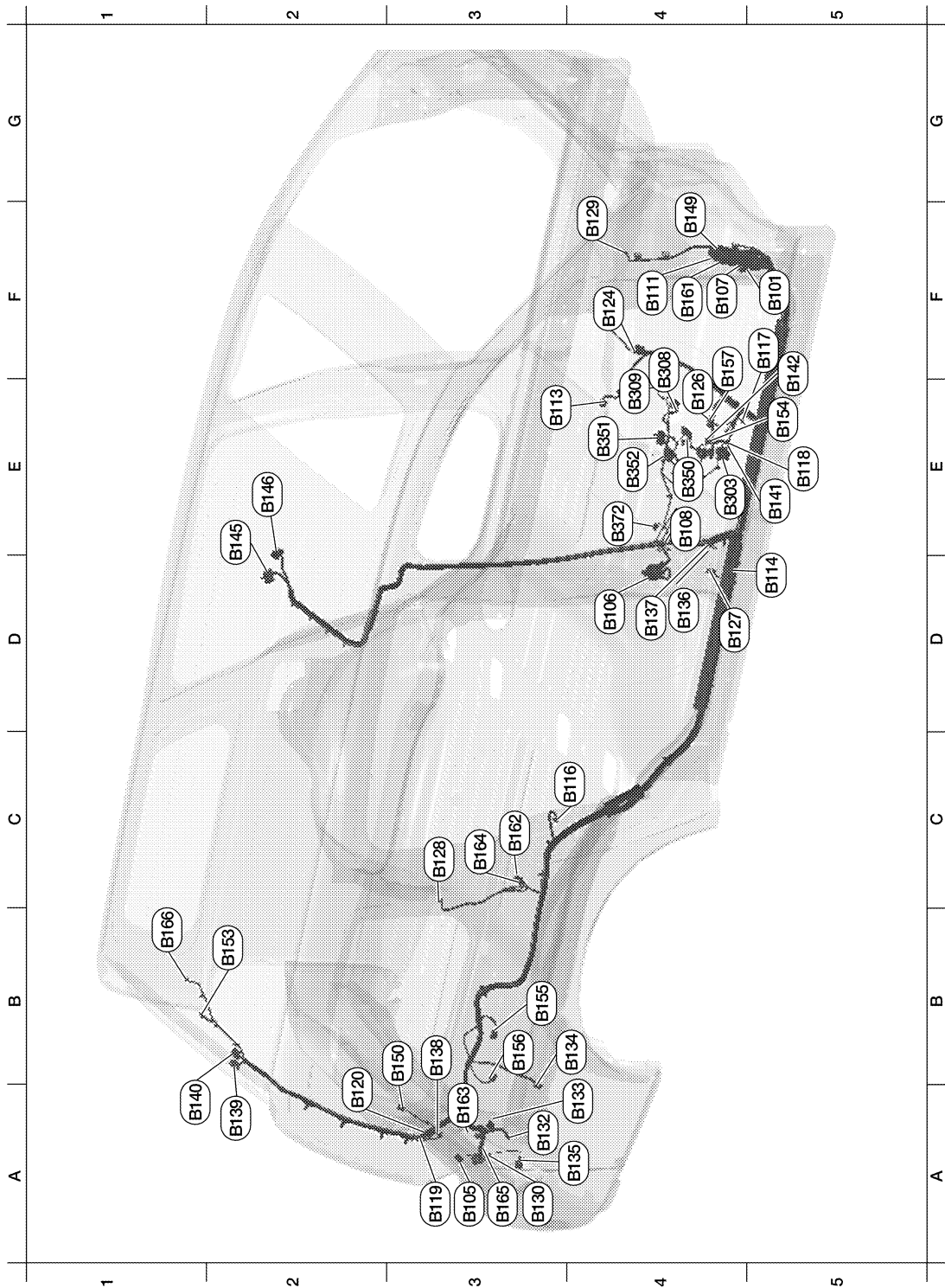
< COMPONENT DIAGNOSIS >

C4	B9	Y/12	: Air bag diagnosis sensor unit	C4	B206	GR/5	: Lifting motor (front) (with automatic drive positioner)	A
E5	B10	Y/2	: Front LH side air bag module	D4	B207	GR/5	: Lifting motor (rear) (with automatic drive positioner)	B
E5	B14	Y/2	: Front LH seat belt pre-tensioner	D4	B208	W/10	: Power seat switch LH (with automatic drive positioner)	C
E5	B15	Y/2	: LH side air bag (satellite) sensor	D4	B209	W/3	: Front seat heater LH	D
E3	B18	W/3	: Rear door switch LH	C3	B210	W/3	: To B44 (without automatic drive positioner)	E
G1	B19	—	: Body ground	D3	B211	W/2	: To B45 (without automatic drive positioner)	F
F2	B24	W/16	: Sonar control unit (rear)	C5	B212	W/2	: Sliding motor LH (without automatic drive positioner)	G
B4	B32	W/6	: To B124	D3	B213	W/2	: Reclining motor LH (without automatic drive positioner)	H
G2	B35	B/3	: Rear combination lamp LH	C4	B214	W/2	: Lifting motor (front) (without automatic drive positioner)	I
D3	B37	W/16	: To B200 (with automatic drive positioner)	D4	B215	GR/2	: Lifting motor (rear) (without automatic drive positioner)	J
C4	B38	Y/2	: LH side front curtain air bag module	D4	B216	W/10	: Power seat switch LH (without automatic drive positioner)	K
C5	B40	W/24	: To E34	Third row power folding seat sub-harness				L
C5	B41	W/12	: To E35	F2	B400	W/10	: To B75	M
C5	B42	W/2	: To E36	E3	B401	GR/12	: Third row power folding seat control unit	N
B4	B43	W/16	: To B111	E3	B402	W/10	: Third row power folding seat control unit	O
D3	B44	W/3	: To B210 (without automatic drive positioner)	E3	B403	GR/4	: Third row power folding seat motor LH	P
D3	B45	W/2	: To B211 (without automatic drive positioner)	E2	B404	W/4	: To B425	Q
F1	B48	W/18	: To D401	E2	B425	W/4	: To B404	R
F1	B49	W/2	: To D402	E3	B426	GR/4	: Third row power folding seat motor RH	S
G2	B52	W/2	: Rear power vent window motor LH					T
F2	B54	Y/2	: LH side rear curtain air bag module					U
G3	B55	W/26	: Back door control unit					V
F2	B56	GR/16	: Sonar control unit (front and rear)					W
G2	B57	GR/10	: Sonar control unit (front and rear)					X
G1	B63	W/6	: Back door close switch					Y
B5	B69	SMJ	: To M40					Z
G2	B70	B/3	: Rear combination lamp LH					AA
G5	B71	B/2	: Back-up lamp LH					AB
D5	B72	BR/6	: Subwoofer					AC
F3	B73	W/16	: Rear view camera unit					AD
C4	B74	Y/4	: Seat belt buckle switch LH					AE
F2	B75	W/10	: To B400					AF
F2	B76	GR/2	: Inside key antenna 2 (luggage compartment)					AG
Left front seat harness								AH
C3	B200	W/16	: To B37 (with automatic drive positioner)					AI

HARNESS

< COMPONENT DIAGNOSIS >

BODY NO. 2 HARNESS



ABMIA0081GB

F5	B101	W/16	: To M84	Right front seat harness		
A3	B105	B/3	: Rear combination lamp RH	E4	B303	W/2 : To B154
D4	B106	W/18	: To D301	F4	B308	W/6 : Power seat switch RH
F4	B107	W/8	: To E139	E4	B309	GR/2 : Sliding motor RH
E4	B108	W/3	: Front door switch RH	E4	B350	W/8 : To B136

HARNESS

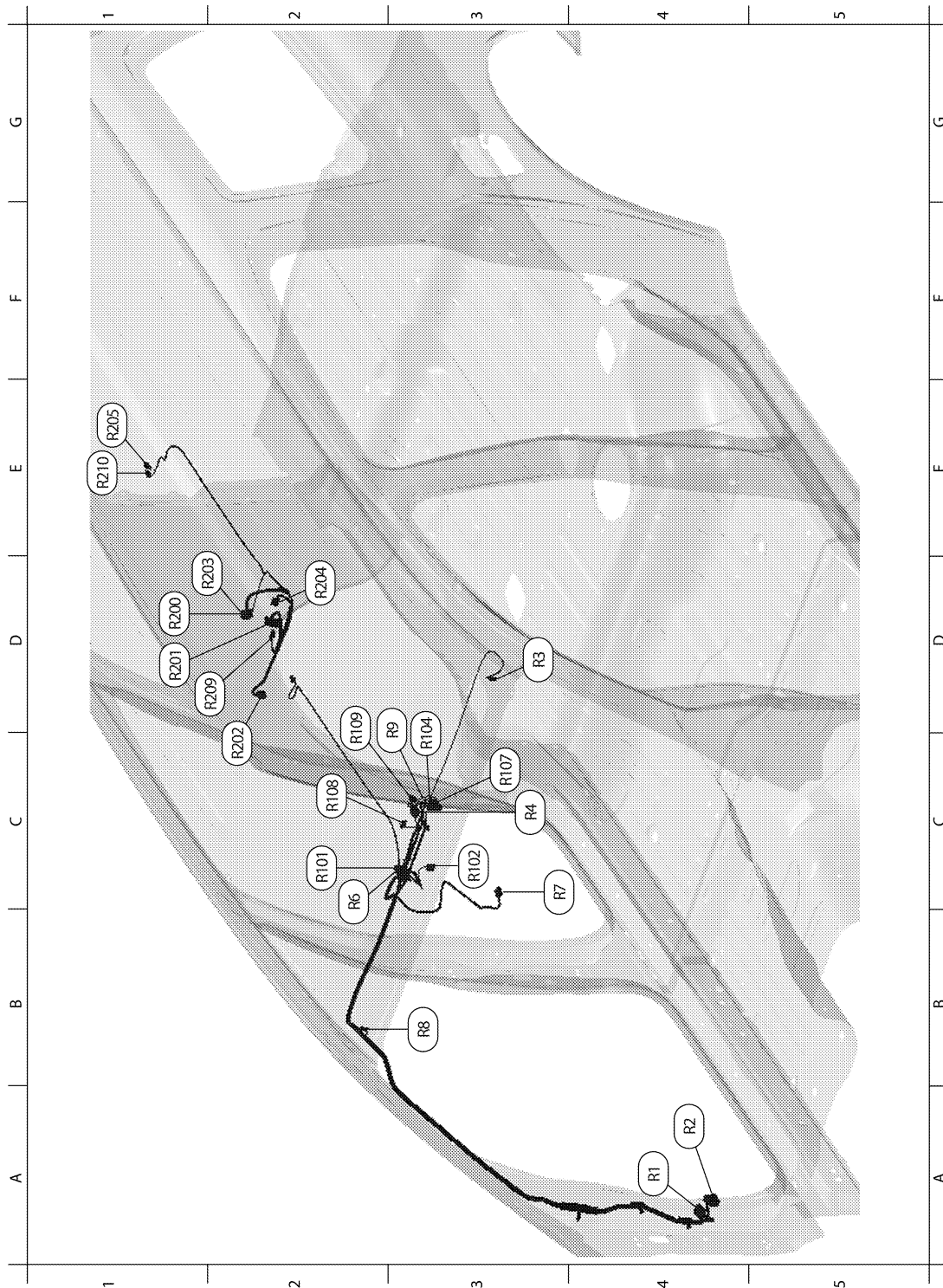
< COMPONENT DIAGNOSIS >

F4	B111	W/16	: To B43	E4	B351	B/18	: Occupant classification system control unit	A
E3	B113	Y/12	: Air bag diagnosis sensor unit	E4	B352	B/3	: Occupant classification system control sensor	
D5	B114	Y/2	: RH side air bag (satellite) sensor	E4	B372	W/2	: Reclining motor RH	B
C4	B116	W/3	: Rear door switch RH					
F5	B117	—	: Body ground					
E5	B118	W/3	: Front seat heater RH					C
A3	B119	W/2	: Condenser-3					
A2	B120	W/2	: Condenser-4					
F4	B124	W/6	: To B32					D
E4	B126	Y/2	: Front RH side air bag module					
D4	B127	Y/2	: Front RH seat belt pre-tensioner					E
C3	B128	Y/2	: RH side rear curtain air bag module					
F4	B129	Y/2	: RH side front curtain air bag module					
A3	B130	B/3	: Rear combination lamp RH					F
A3	B132	—	: Body ground					
A4	B133	W/4	: Variable blower control (rear)					
B4	B134	W/2	: Rear blower motor					G
A4	B135	B/2	: Back-up lamp RH					
D4	B136	W/8	: To B350					H
D4	B137	W/3	: Belt tension sensor					
B3	B138	B/3	: Rear cargo power socket					
A2	B139	W/16	: To D602					I
A1	B140	W/6	: To D601					
E5	B141	W/8	: Bluetooth control unit					J
E5	B142	W/32	: Bluetooth control unit					
E2	B145	W/16	: To R200					
E2	B146	BR/24	: To R201					K
F4	B149	SMJ	: To M36					
B3	B150	W/2	: Rear power vent window motor RH					L
B2	B153	W/2	: Cargo lamp					
E5	B154	W/2	: To B303					
B3	B155	B/6	: Air mix door motor (rear)					PG
B3	B156	B/6	: Mode door motor (rear)					
E4	B157	Y/4	: Seat belt buckle pre-tensioner assembly RH					N
F4	B161	W/20	: To M157					
C3	B162	BR/6	: Third row power folding seat switch passenger side (front)					O
A3	B163	W/6	: Third row power folding seat switch passenger side (rear)					
C3	B164	W/6	: Third row power folding seat switch driver side (front)					P
A3	B165	BR/6	: Third row power folding seat switch driver side (rear)					
B2	B166	B/2	: Rear sonar buzzer					

HARNESS

< COMPONENT DIAGNOSIS >

ROOM LAMP HARNESS



ABMIA0082GB

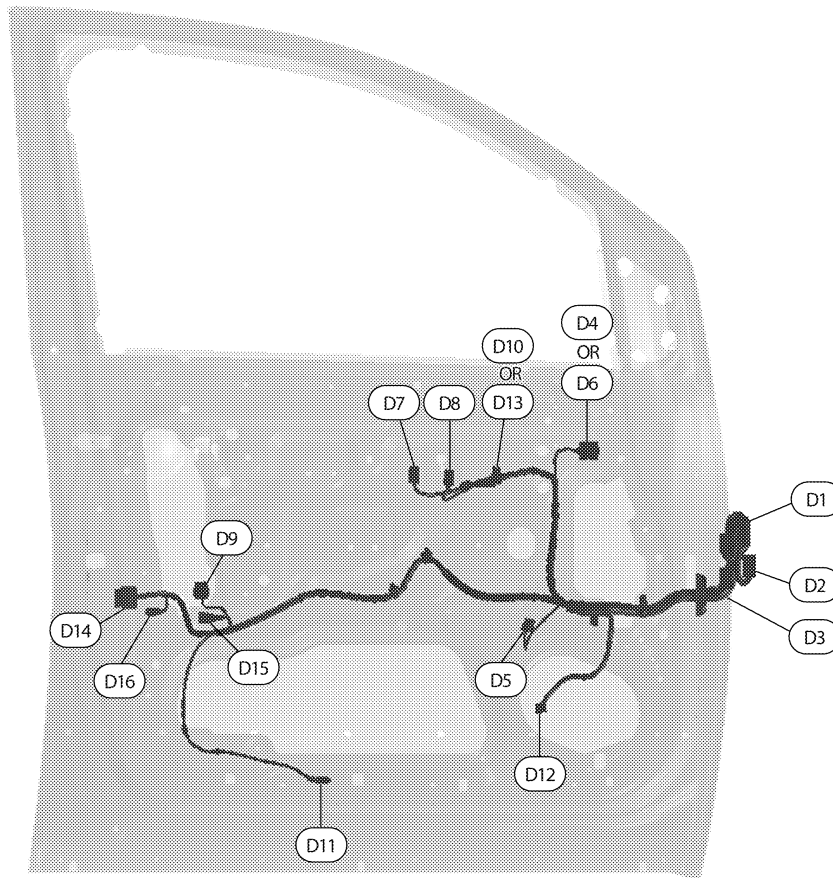
A4	R1	W/16	: To M1	C3	R107	W/8	: To R9
A4	R2	W/12	: To M2	C2	R108	B/6	: Rear air control (front)
D3	R3	W/2	: Vanity lamp LH	D2	R109	W/4	: Microphone
C3	R4	W/10	: Sunroof motor assembly	Room lamp sub-harness B			
C2	R6	W/16	: To R101	D1	R200	W/16	: To B145

HARNESS

< COMPONENT DIAGNOSIS >

C3	R7	GR/10	: Auto anti-dazzling inside mirror	D1	R201	BR/24	: To B146
B3	R8	W/2	: Vanity lamp RH	C2	R202	W/12	: Video monitor
D3	R9	W/8	: To R107	D1	R203	W/3	: Personal lamp 2ND row
Room lamp sub-harness A				D2	R204	W/16	: Rear audio remote control unit
C2	R101	W/16	: To R6	E1	R205	W/3	: Personal lamp 3RD row
C3	R102	GR/8	: Front room/map lamp assembly	D2	R209	B/6	: Rear air control (rear)
D3	R104	GR/6	: Sunroof switch	E1	R210	W/2	: Inside key antenna 4 (over head console area)

FRONT DOOR LH HARNESS

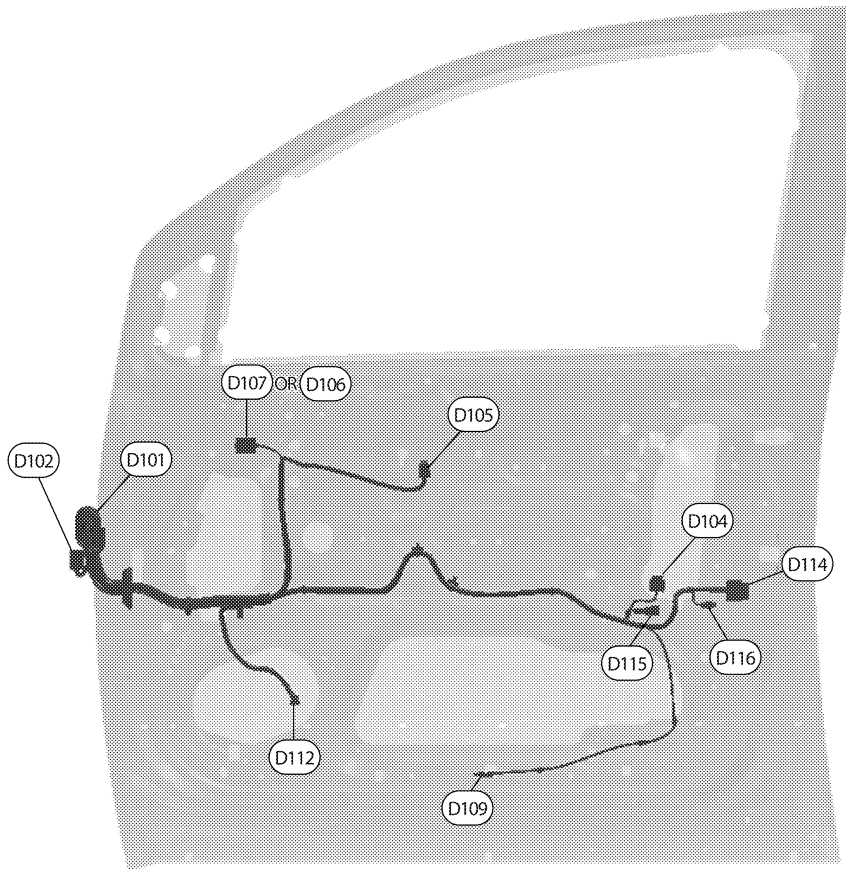


ABMIA0083GB

D1	BR/24	: To M9	D9	GR/6	: Front power window motor LH
D2	W/16	: To M8	D10	W/16	: Door mirror remote control switch (with automatic drive positioner)
D3	W/10	: To M158	D11	W/2	: Front step lamp LH
D4	W/16	: Door mirror LH (with automatic drive positioner)	D12	W/2	: Front door speaker LH
D5	W/8	: Seat memory switch	D13	W/16	: Door mirror remote control switch (without automatic drive positioner)
D6	W/6	: Door mirror LH (without automatic drive positioner)	D14	B/6	: Front door lock assembly LH
D7	W/16	: Main power window and door lock/unlock switch	D15	GR/2	: Front outside antenna LH
D8	W/3	: Main power window and door lock/unlock switch	D16	GR/2	: Front door request switch LH

HARNESS

< COMPONENT DIAGNOSIS > FRONT DOOR RH HARNESS



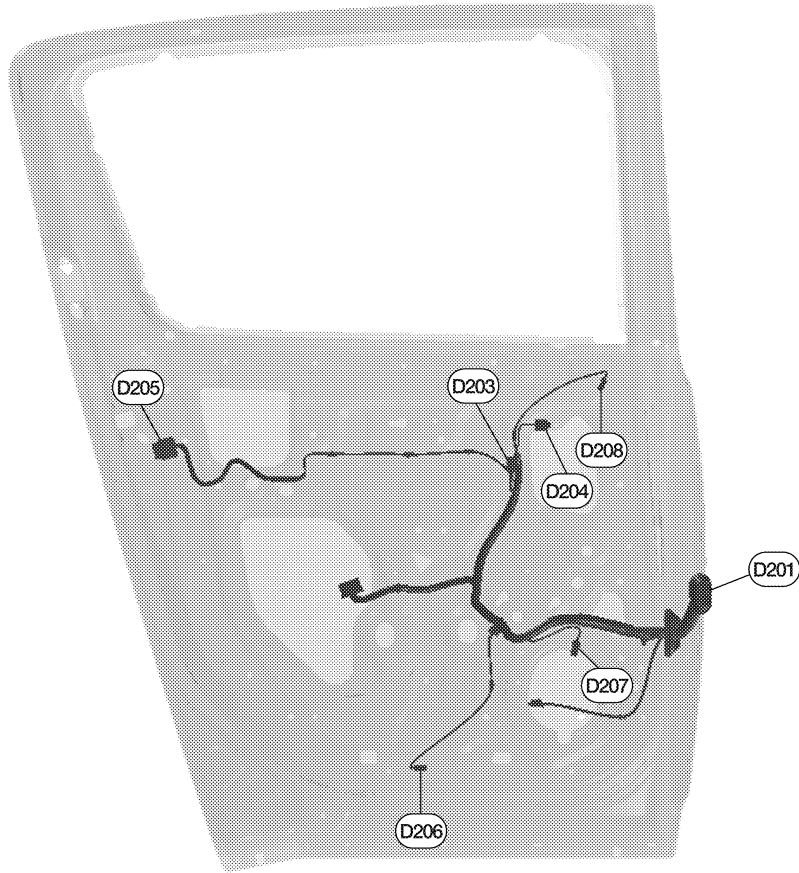
ABMIA0084GB

D101	W/10	: To M75	D109	W/2	: Front step lamp RH
D102	BR/20	: To M74	D112	W/2	: Front door speaker RH
D104	GR/6	: Front power window motor RH	D114	B/6	: Front door lock actuator RH
D105	W/16	: Power window and door lock/unlock switch RH	D115	GR/2	: Front outside antenna RH
D106	W/6	: Door mirror RH (without automatic drive positioner)	D116	GR/2	: Front door request switch RH
D107	W/16	: Door mirror RH (with automatic drive positioner)			

HARNESS

< COMPONENT DIAGNOSIS >

REAR DOOR LH HARNESS



ALMIA0216GB

D201	W/18	: To B6			
D203	W/8	: Rear power window switch LH			
D204	GR/2	: Rear power window motor LH			
D205	B/6	: Rear door lock actuator LH			
D206	W/2	: Rear step lamp LH			
D207	W/2	: Rear door speaker LH			
D208	BR/2	: Rear door tweeter LH			

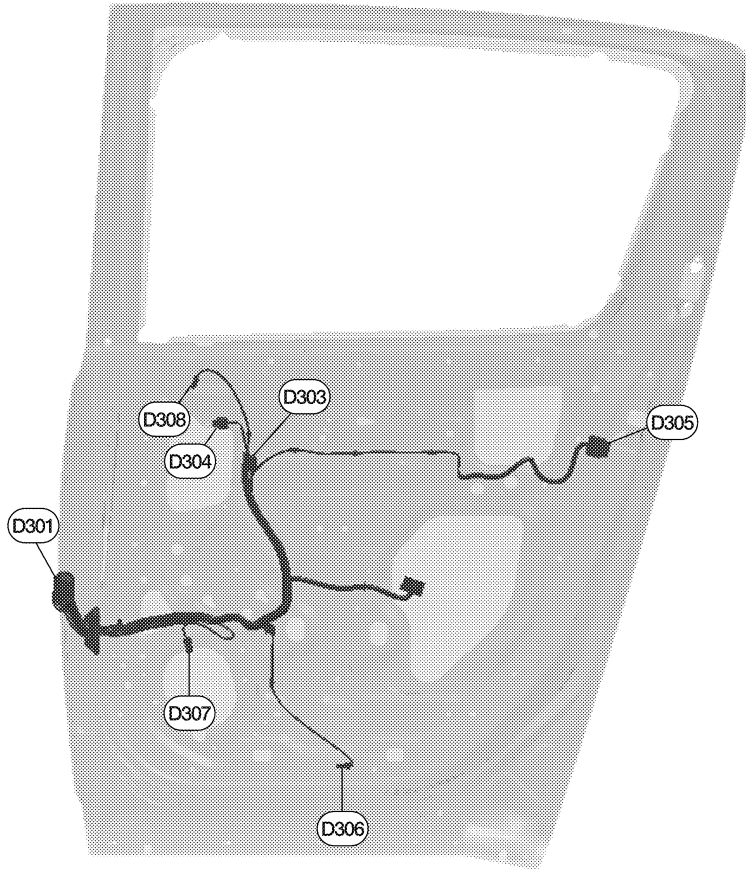
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< COMPONENT DIAGNOSIS >

REAR DOOR RH HARNESS



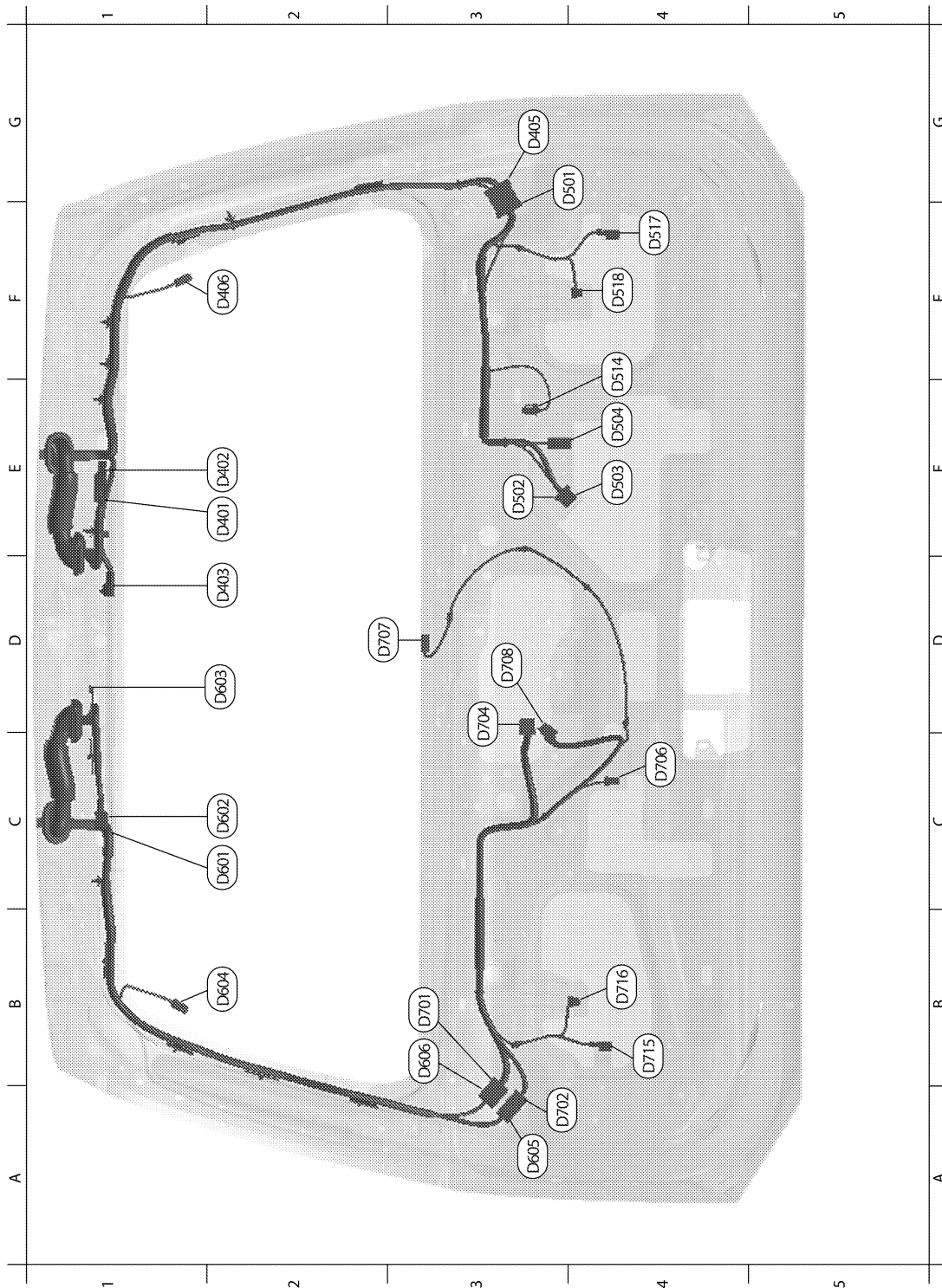
ALMIA0217GB

D301	W/18	: To B106			
D303	W/8	: Rear power window switch RH			
D304	GR/2	: Rear power window motor RH			
D305	B/6	: Rear door lock actuator RH			
D306	W/2	: Rear step lamp RH			
D307	W/2	: Rear door speaker RH			
D308	BR/2	: Rear door tweeter RH			

HARNESS

< COMPONENT DIAGNOSIS >

BACK DOOR HARNESS



ABMIA0085GB

Back door No. 2 harness				Back door RH harness			
E2	D401	W/18	: To B48	B3	D701	W/16	: To D606
E2	D402	W/2	: To B49	A3	D702	W/6	: To D605
D2	D403	GR/2	: High mounted stop lamp	D3	D704	W/6	: Rear wiper motor
G3	D405	W/18	: To D501	C4	D706	GR/2	: Back door handle switch

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HARNESS

< COMPONENT DIAGNOSIS >

F2	D406	B/1	: Rear window defogger	D2	D707	B/1	: Glass hatch ajar switch
Back door LH harness				D3	D708	W/4	: Back door lock actuator
G3	D501	W/18	: To D405	B4	D715	BR/2	: Pinch strip RH
E3	D502	W/3	: Back door switch	B4	D716	BR/2	: Back door speaker RH
E4	D503	W/8	: Back door latch				
E4	D504	W/4	: Rear view camera				
F4	D514	BR/2	: Back door warning chime				
F4	D517	BR/2	: Pinch strip LH				
F4	D518	BR/2	: Back door speaker LH				
Back door No. 2 RH harness							
C2	D601	W/6	: To B140				
C2	D602	W/16	: To B139				
D2	D603	—	: Body ground				
B2	D604	B/1	: Rear window defogger				
A3	D605	W/6	: To D702				
B3	D606	W/16	: To D701				

ELECTRICAL UNITS LOCATION

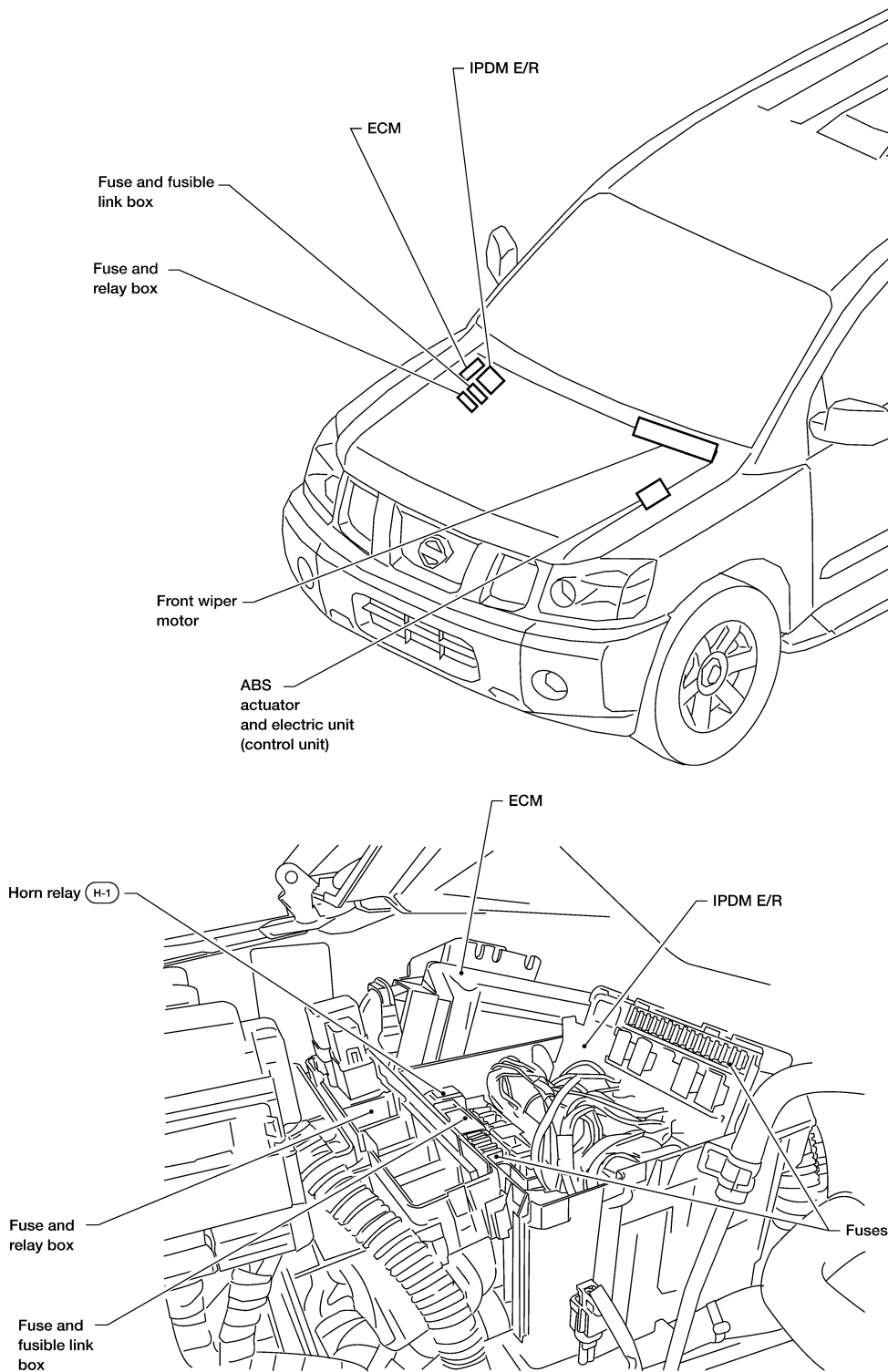
< COMPONENT DIAGNOSIS >

ELECTRICAL UNITS LOCATION

Electrical Units Location

INFOID:000000003708993

ENGINE COMPARTMENT

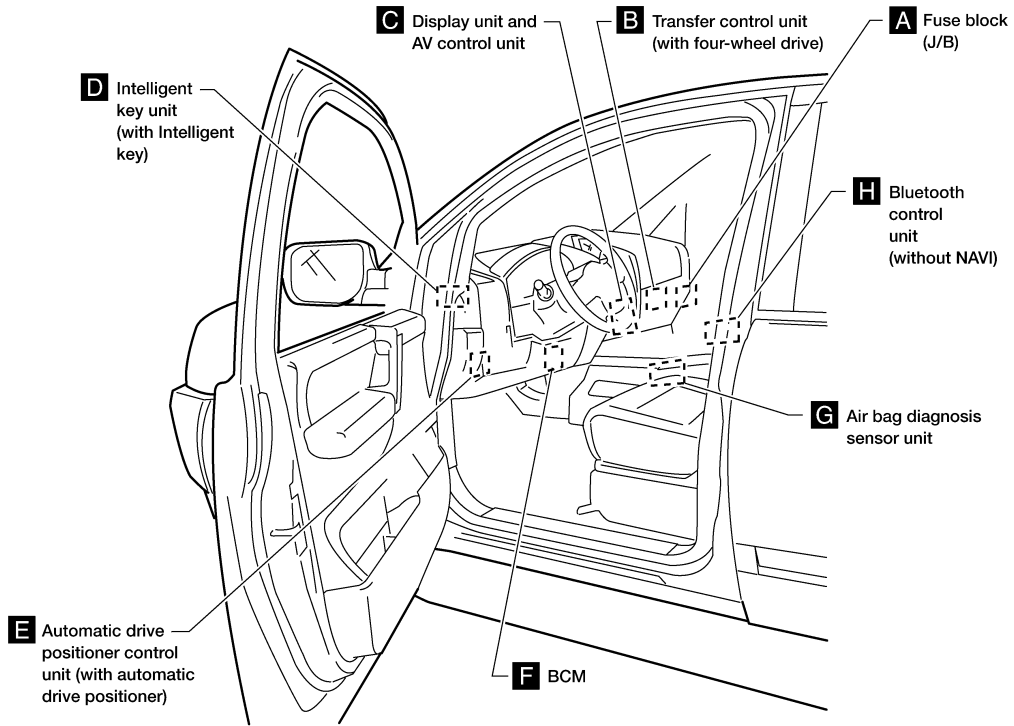


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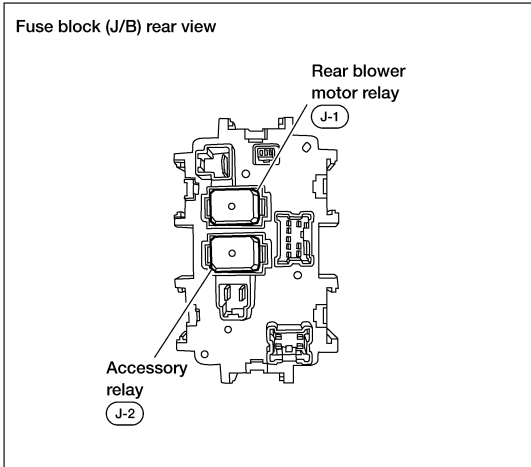
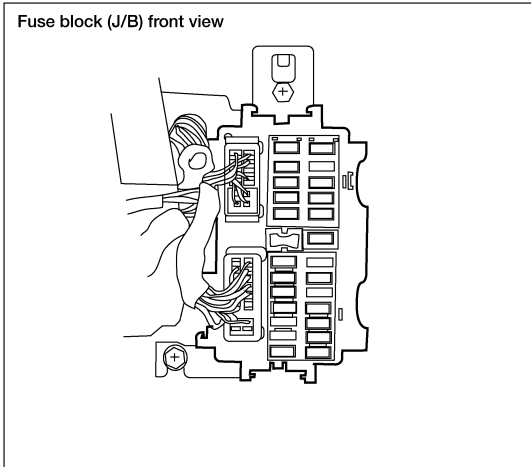
LKIA0444E

ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >
 PASSENGER COMPARTMENT



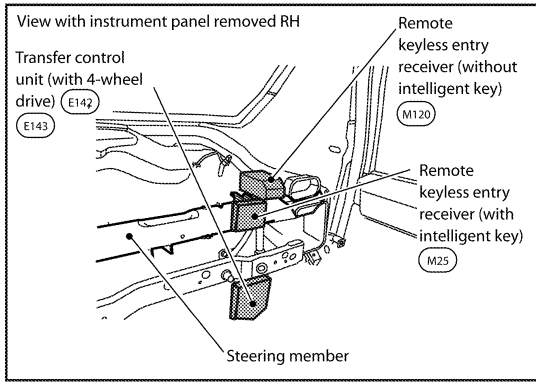
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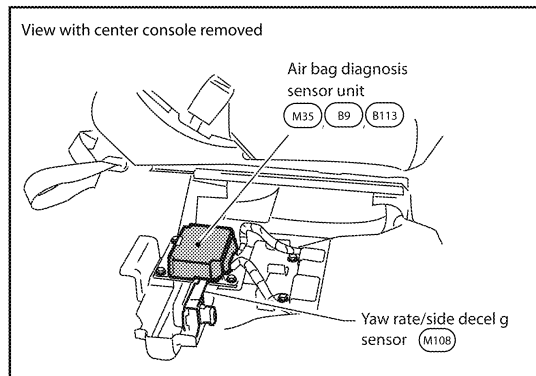
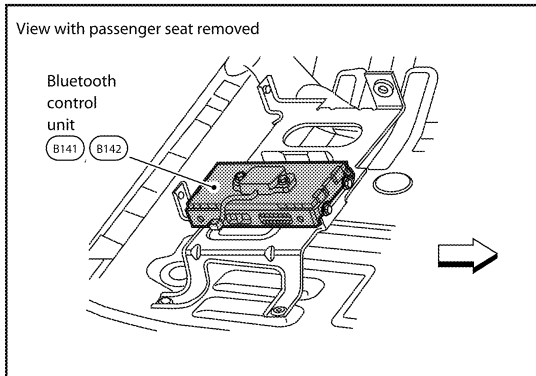
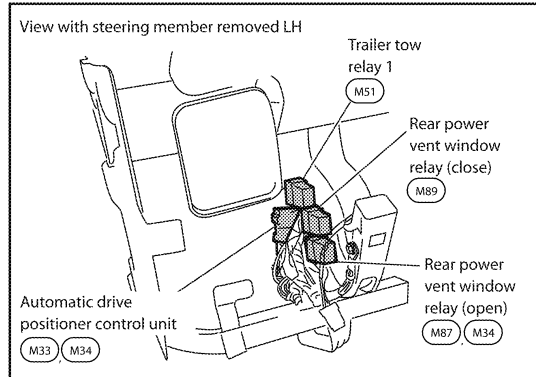
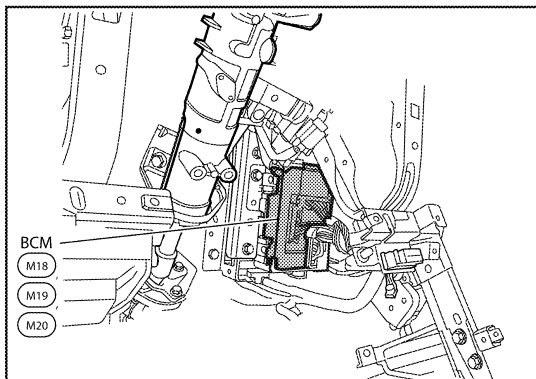
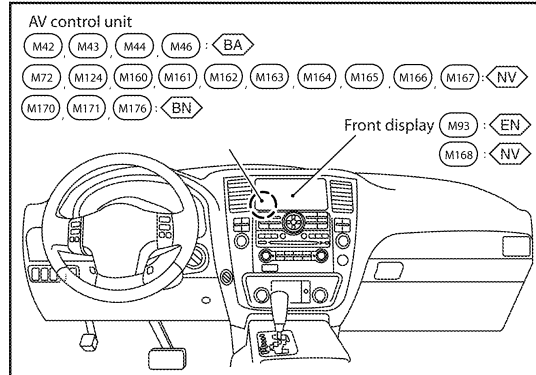
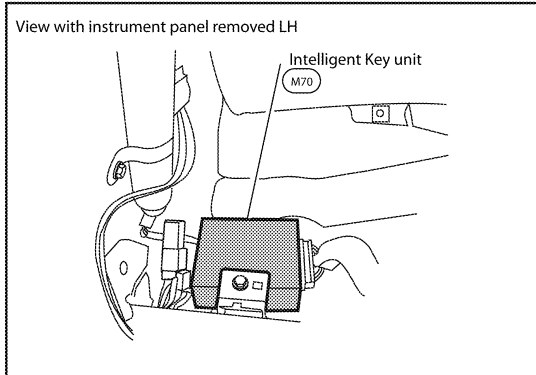
ALMIA0221GB

ELECTRICAL UNITS LOCATION

< COMPONENT DIAGNOSIS >



- EN : WITHOUT NAVI
- BA : WITH BASE AUDIO SYSTEM
- BN : WITH BOSE AUDIO SYSTEM-WITHOUT NAVI
- NV : WITH NAVI



ABMIA0086GB

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HARNESS CONNECTOR

< COMPONENT DIAGNOSIS >

HARNESS CONNECTOR

Description

INFOID:000000003708994

HARNESS CONNECTOR (TAB-LOCKING TYPE)

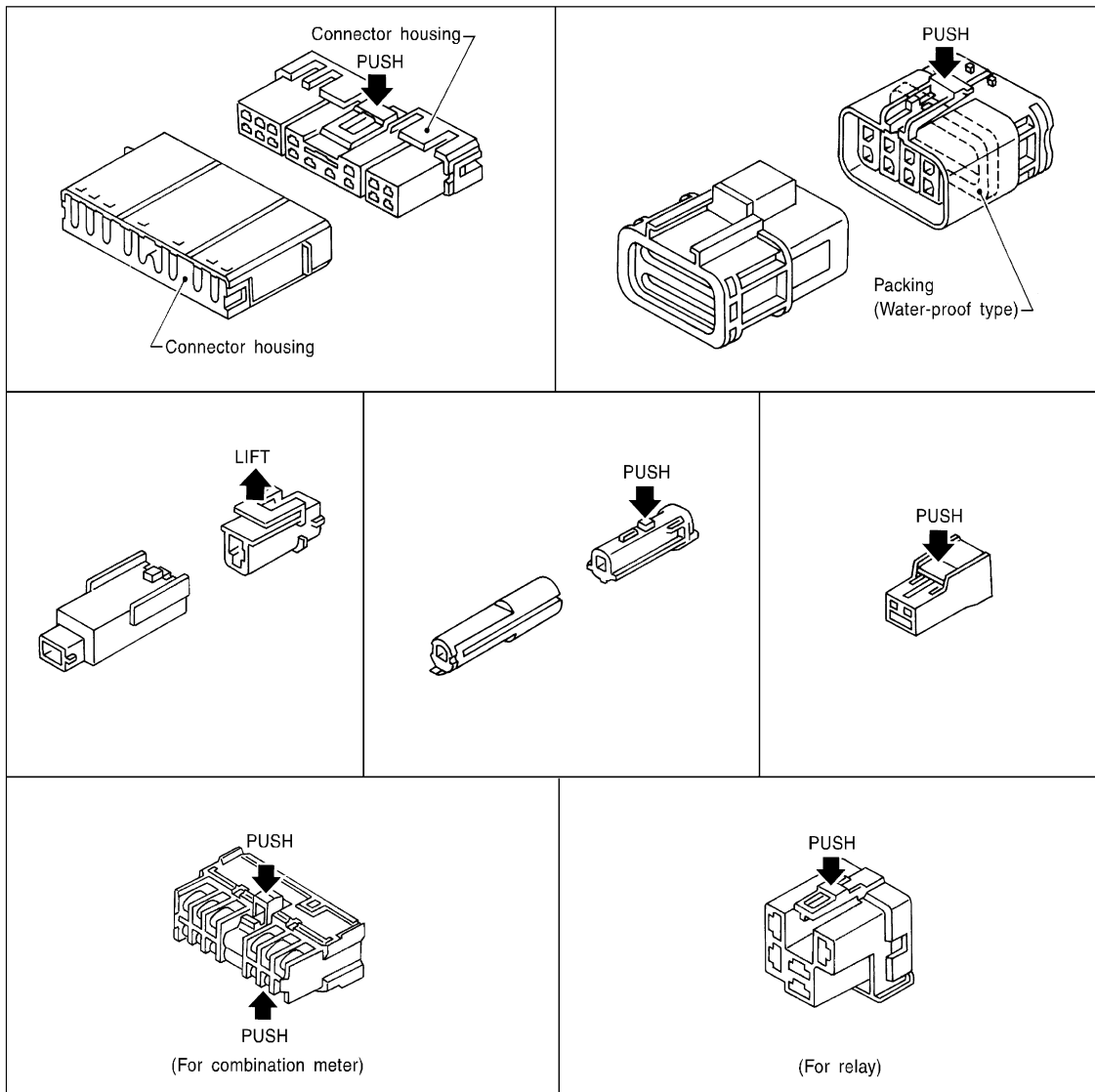
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

CAUTION:

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

[Example]



SEL769DA

HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

HARNESS CONNECTOR

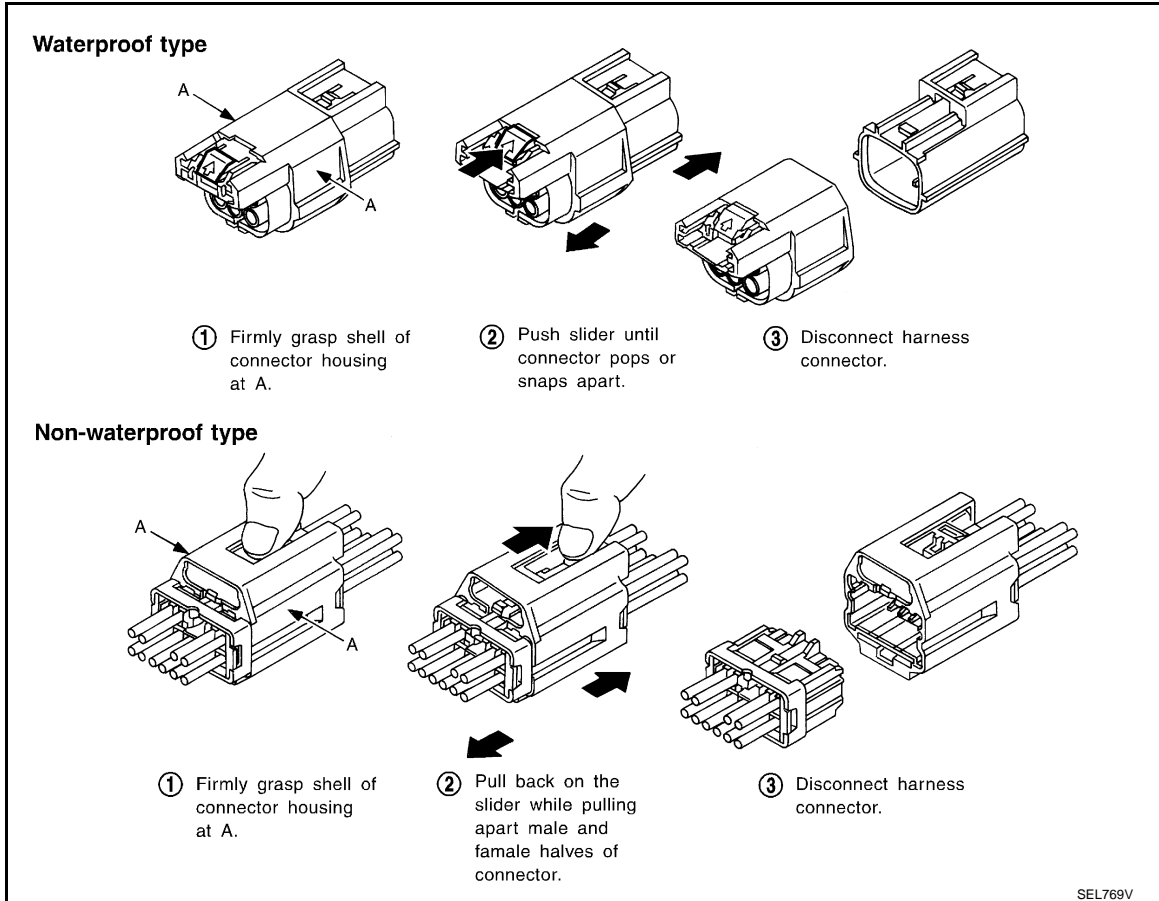
< COMPONENT DIAGNOSIS >

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

CAUTION:

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

[Example]



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.

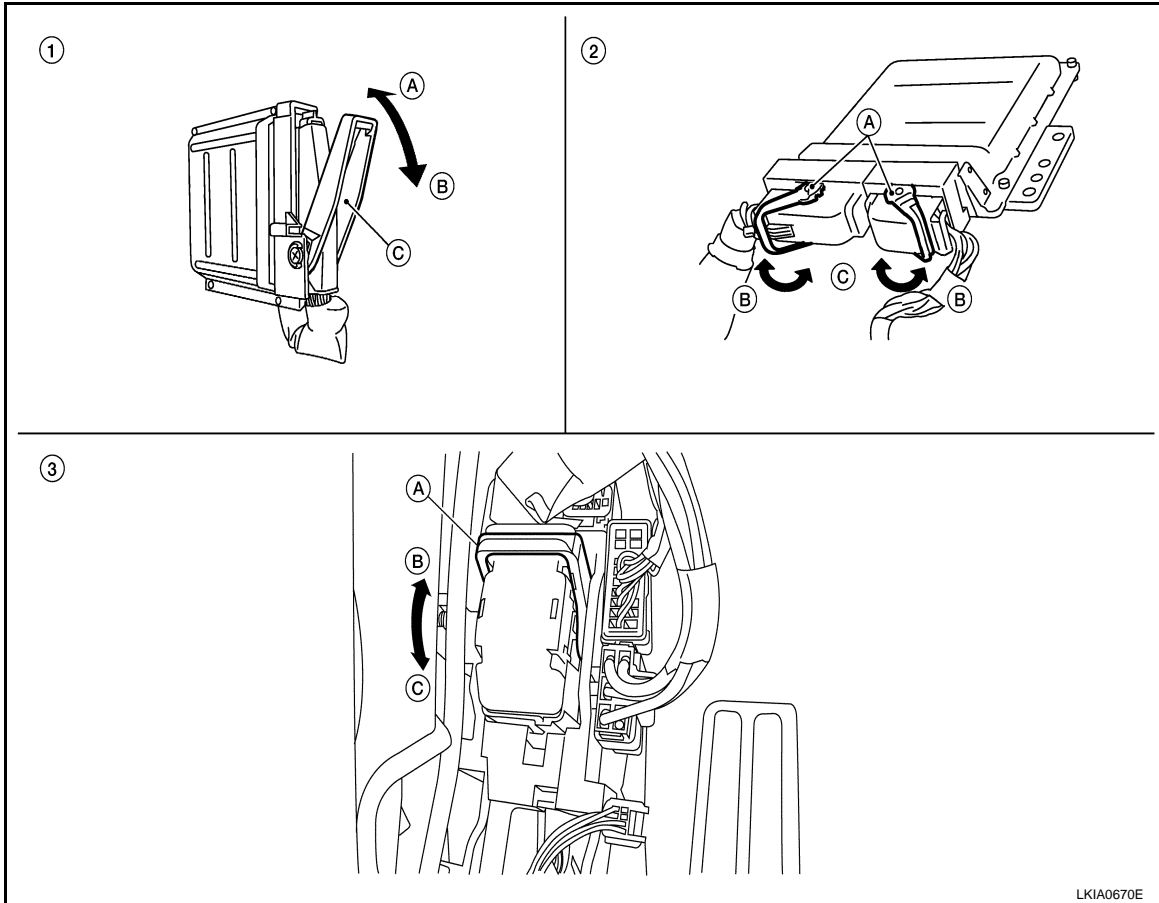
CAUTION:

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HARNES 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.



LKIA0670E

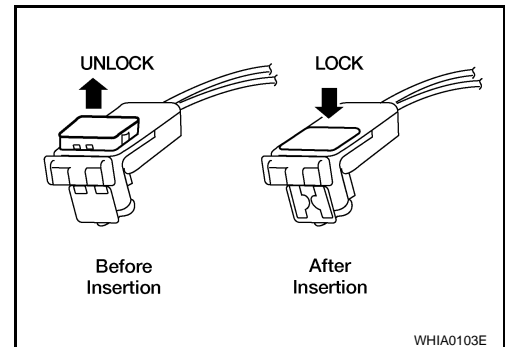
- | | | |
|--|--|---|
| <p>1. Control unit with single lever</p> <p>A. Fasten</p> <p>B. Loosen</p> <p>C. Lever</p> | <p>2. Control unit with dual lever</p> <p>A. Fasten</p> <p>B. Loosen</p> <p>C. Lever</p> | <p>3. SMJ connector</p> <p>A. Fasten</p> <p>B. Loosen</p> <p>C. Lever</p> |
|--|--|---|

HARNES 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.



WHIA0103E

STANDARDIZED RELAY

< COMPONENT DIAGNOSIS >

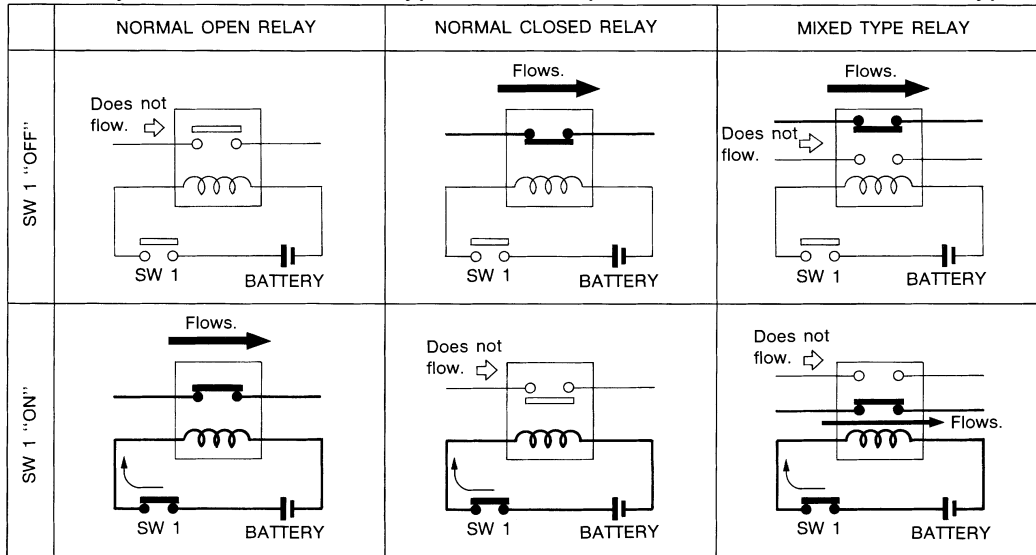
STANDARDIZED RELAY

Description

INFOID:000000003708995

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

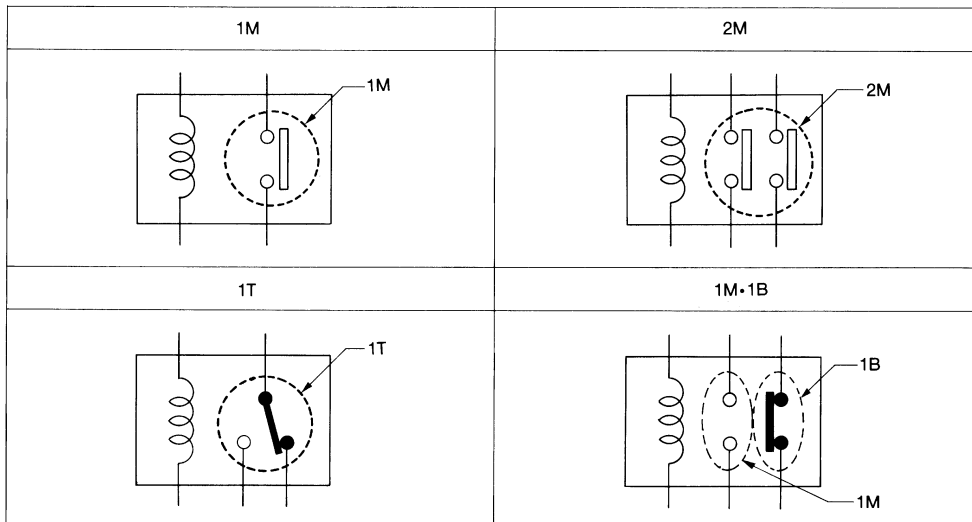
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPE OF STANDARDIZED RELAYS

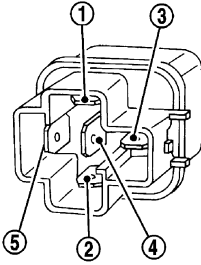
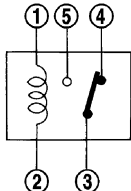
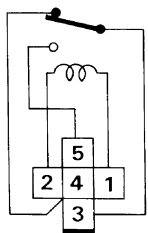
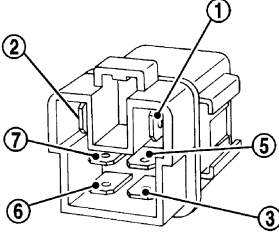
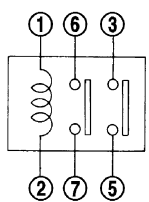
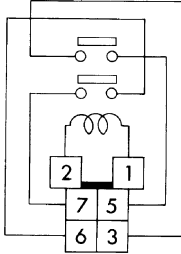
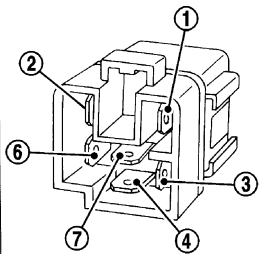
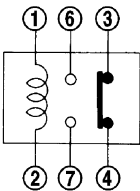
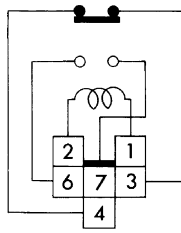
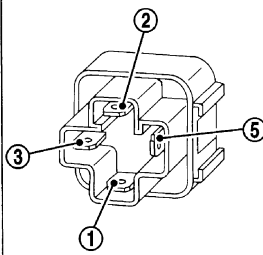
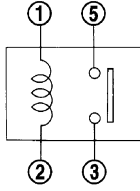
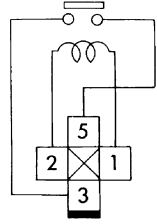
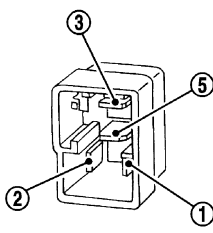
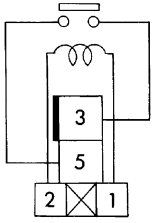
- 1M 1 Make
- 2M 2 Make
- 1T 1 Transfer
- 1M-1B 1 Make 1 Break



SEL882H

STANDARDIZED RELAY

< COMPONENT DIAGNOSIS >

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

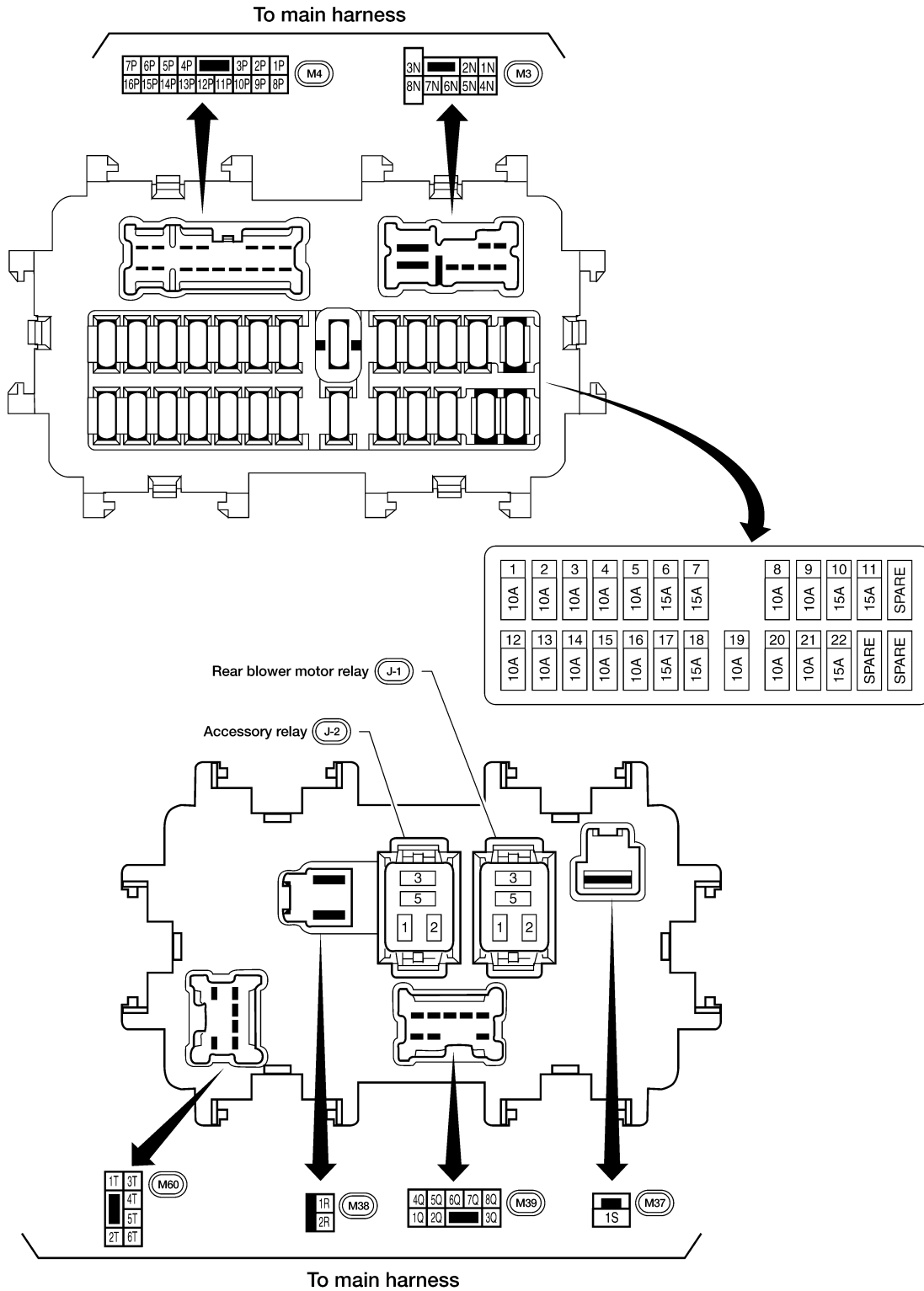
FUSE BLOCK - JUNCTION BOX (J/B)

< COMPONENT DIAGNOSIS >

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:000000003708996



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AWMIA0898GB

FUSE, FUSIBLE LINK AND RELAY BOX

< COMPONENT DIAGNOSIS >

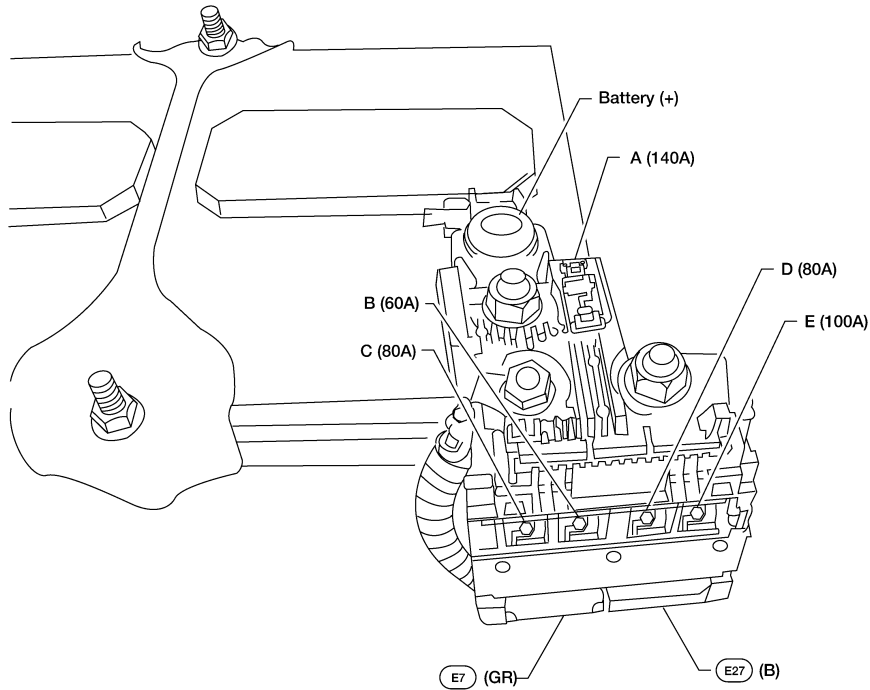
FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

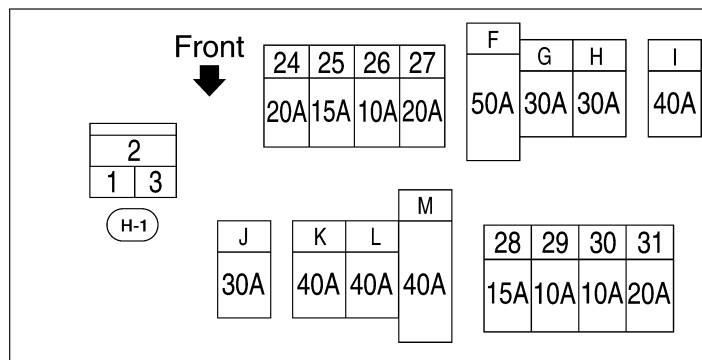
INFOID:000000003708997

FUSE AND FUSIBLE LINK BOX

FUSE LINK BOX (BATTERY)



FUSE AND FUSIBLE LINK BOX



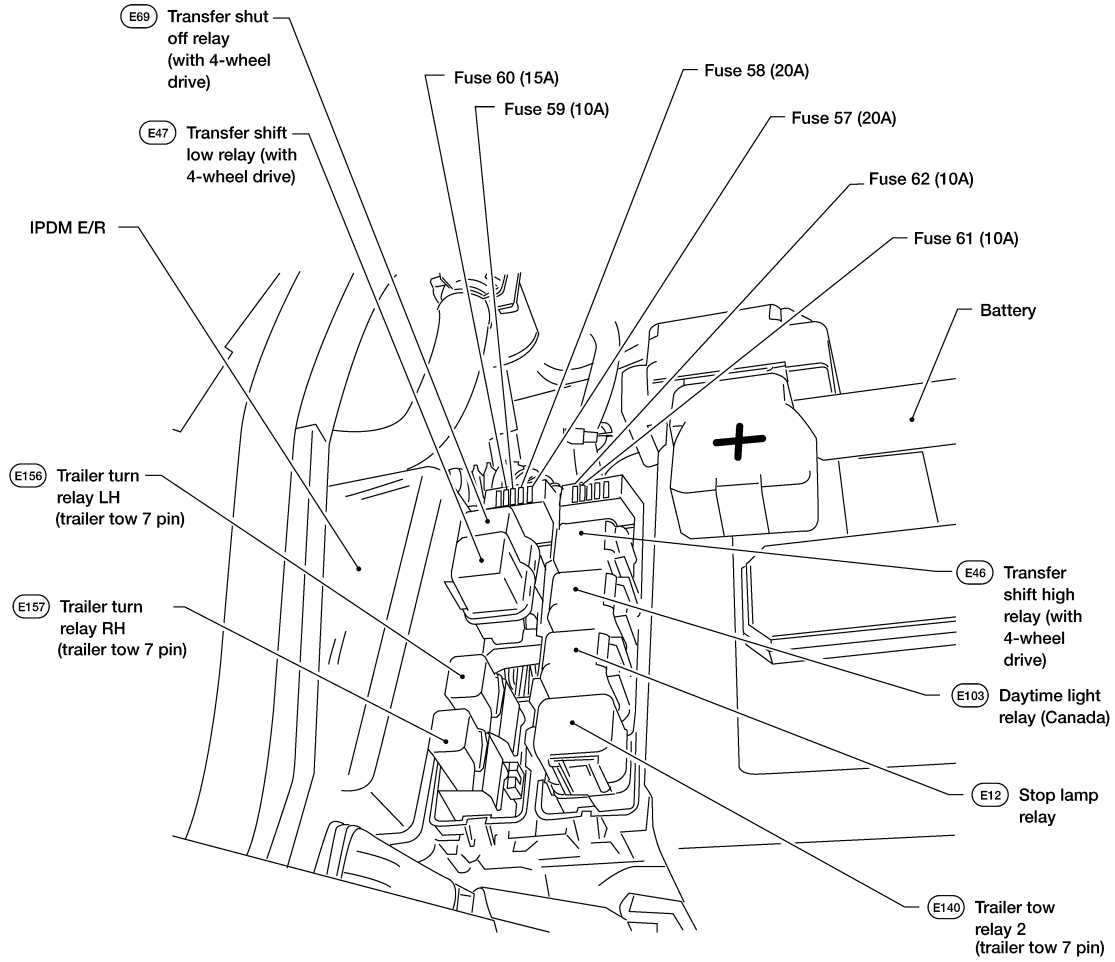
24 - 31 : FUSE F - M : FUSIBLE LINK

ALMIA0220GB

FUSE, FUSIBLE LINK AND RELAY BOX

< COMPONENT DIAGNOSIS >

FUSE AND RELAY BOX



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AWMIA1106GB

BATTERY

< ON-VEHICLE REPAIR >

ON-VEHICLE REPAIR

BATTERY

Removal and Installation

INFOID:000000003708998

REMOVAL

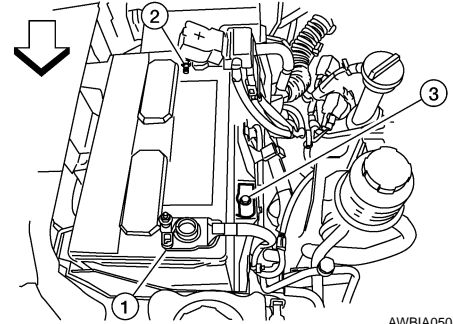
1. Disconnect the negative battery terminal (1) and positive battery terminal (2).

CAUTION:

Remove negative battery terminal first.

⇐ : Front

2. Remove the battery cover.
3. Remove the battery clamp bolt (3) and battery clamp.
4. Remove the battery.



AWBIA0504ZZ

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

When installing, install the positive battery terminal first.

Battery clamp bolt : 14.7 N·m (1.5 kg-m, 11 ft-lb)

Battery terminal nut : 3.5 N·m (0.36 kg-m, 31 in-lb)

Reset electronic systems as necessary. Refer to [PG-6. "Special Repair Requirement"](#).

SERVICE DATA AND SPECIFICATIONS (SDS)

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Battery

INFOID:000000003708999

	Standard battery	Heavy duty battery (with towing package and FFV equipped vehicles)
Type	Gr. 24	Gr. 27
Capacity (20 HR) minimum V-AH	72	80
Cold cranking current A (For reference value)	650	710

A

B

C

D

E

F

G

H

I

J

K

L

PG

N

O

P