

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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**SERVICE DATA AND SPECIFICATIONS**

**(SDS) ..... 98**

Battery ..... 98

# PRECAUTIONS

< PRECAUTION >

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000009131079

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 dual stage front air bag modules. The SRS system may only deploy one front air bag, depending on the severity of a collision and whether the front passenger seat is occupied. 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 three minutes before performing any service.

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# PREPARATION

< PREPARATION >


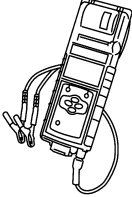
## PREPARATION

### PREPARATION

#### Special Service Tools


INFOID:000000009131080

The actual shapes of Kent-Moore tools may differ from those of special service tools illustrated here.

Tool number (Kent-Moore No.) Tool name	Description
<p>— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station</p>  <p style="text-align: right;">AWIIA1239ZZ</p>	<p>Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.</p>
<p>— (—) Model EXP-800 NI Battery and electrical diagnostic analyzer</p>  <p style="text-align: right;">JSMIA0806ZZ</p>	<p>Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.</p>

#### Commercial Service Tool

INFOID:000000009754969

Tool name	Description
<p>Power tool</p>  <p style="text-align: right;">PIIB1407E</p>	<p>Loosening nuts, screws and bolts</p>



# COMPONENT PARTS

< SYSTEM DESCRIPTION >

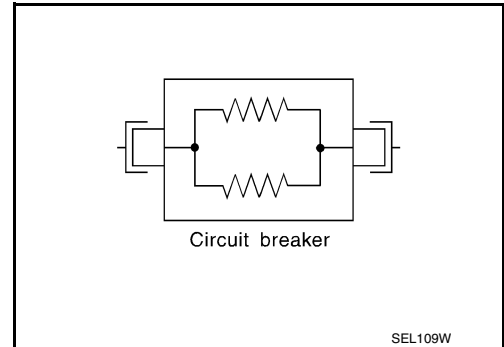
## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### Circuit Breaker

INFOID:000000009131081

The PTC thermistor generates heat in response to current flow. The temperature (and resistance) of the thermistor element varies with current flow. Excessive current flow will cause the element's temperature to rise. When the temperature reaches a specified level, the electrical resistance will rise sharply to control the circuit current. Reduced current flow will cause the element to cool. Resistance falls accordingly and normal circuit current flow is allowed to resume.



#### Battery

INFOID:000000009131082

Type		115D31R
20 hour rate capacity	[V – Ah]	12 – 82
Cold cranking current (For reference value)	[A]	782

#### Harness Connector

INFOID:000000009131083

##### 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.

**CAUTION:**

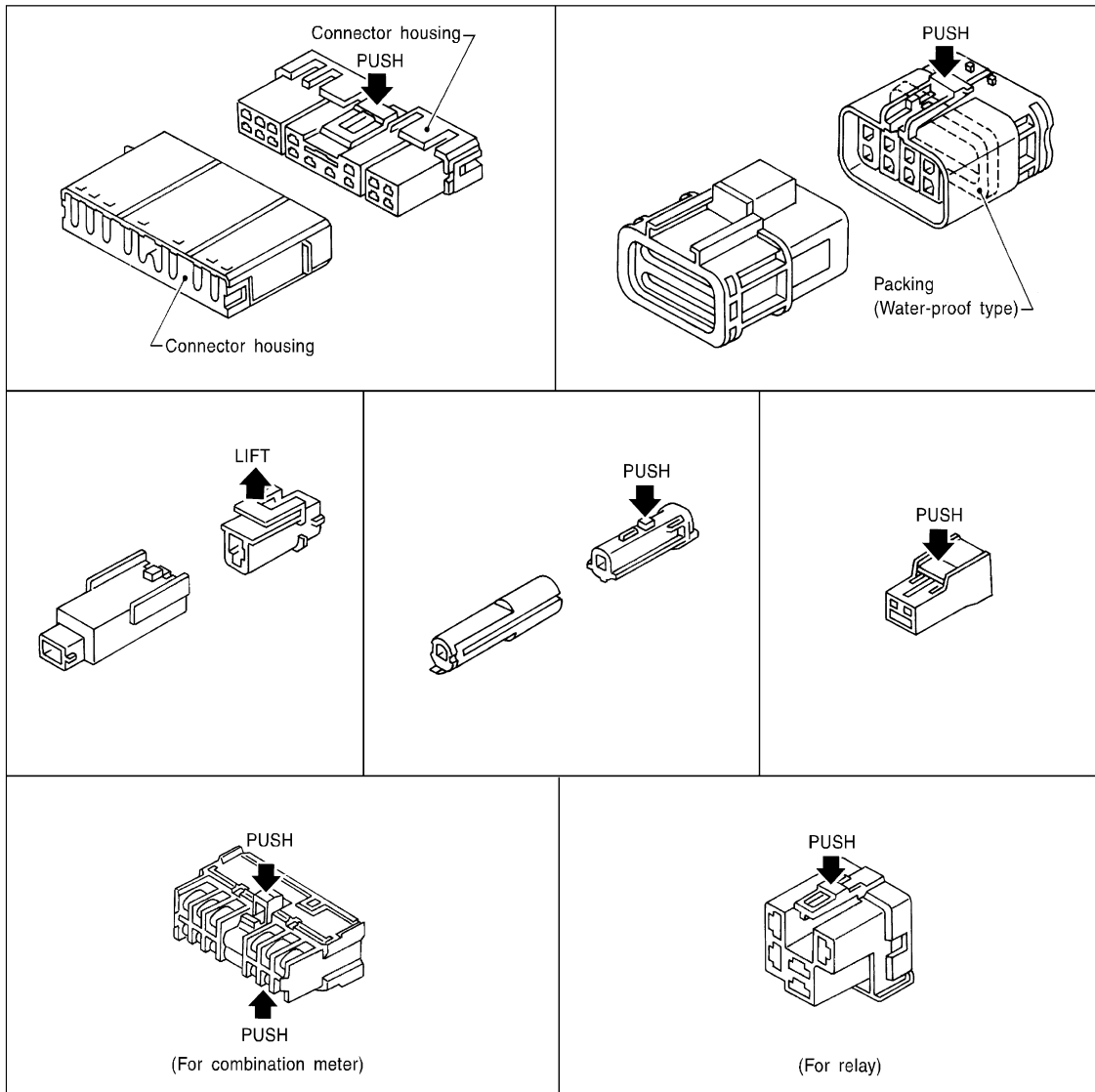
**Never pull the harness or wires when disconnecting the connector.**

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# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

[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 figure below.

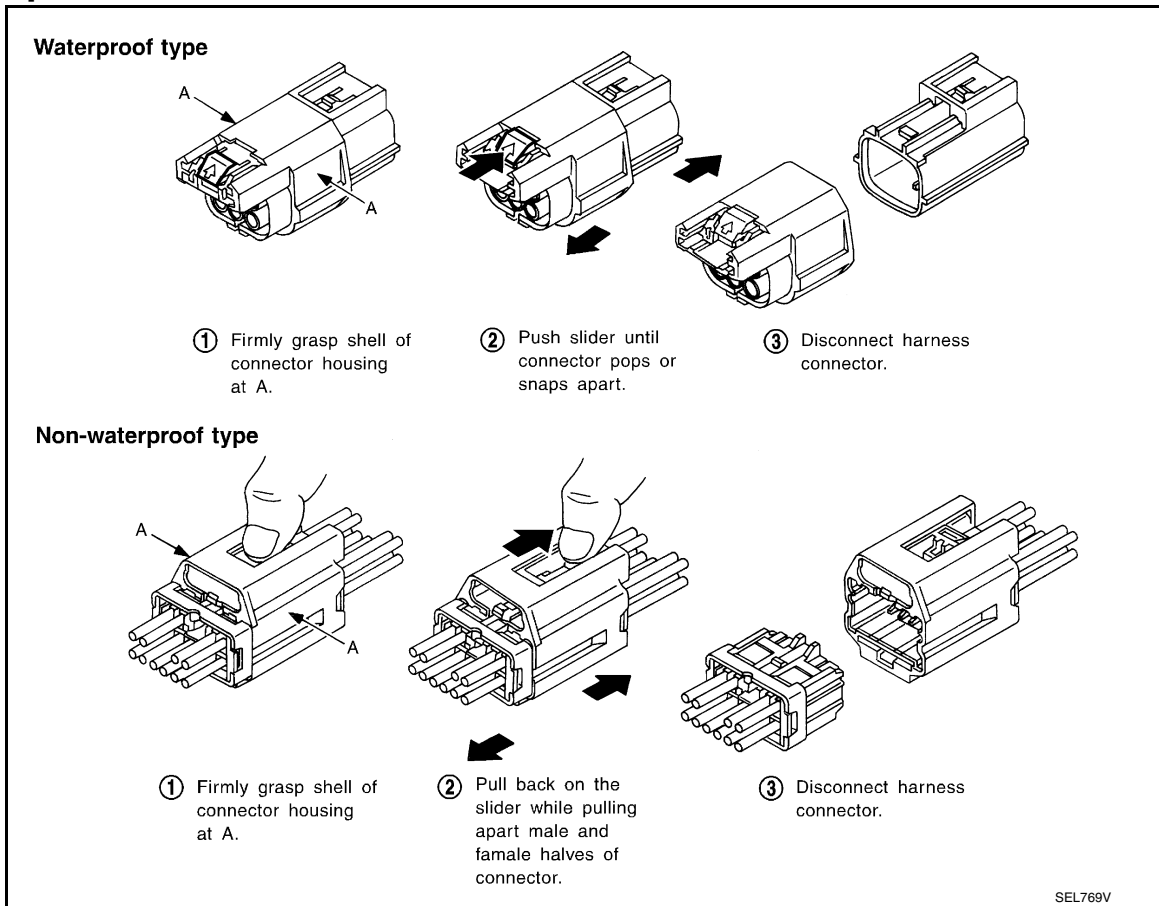
#### **CAUTION:**

- **Never pull the harness or wires when disconnecting the connector.**
- **Be careful not to damage the connector support bracket when disconnecting the connector.**

# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

[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:**

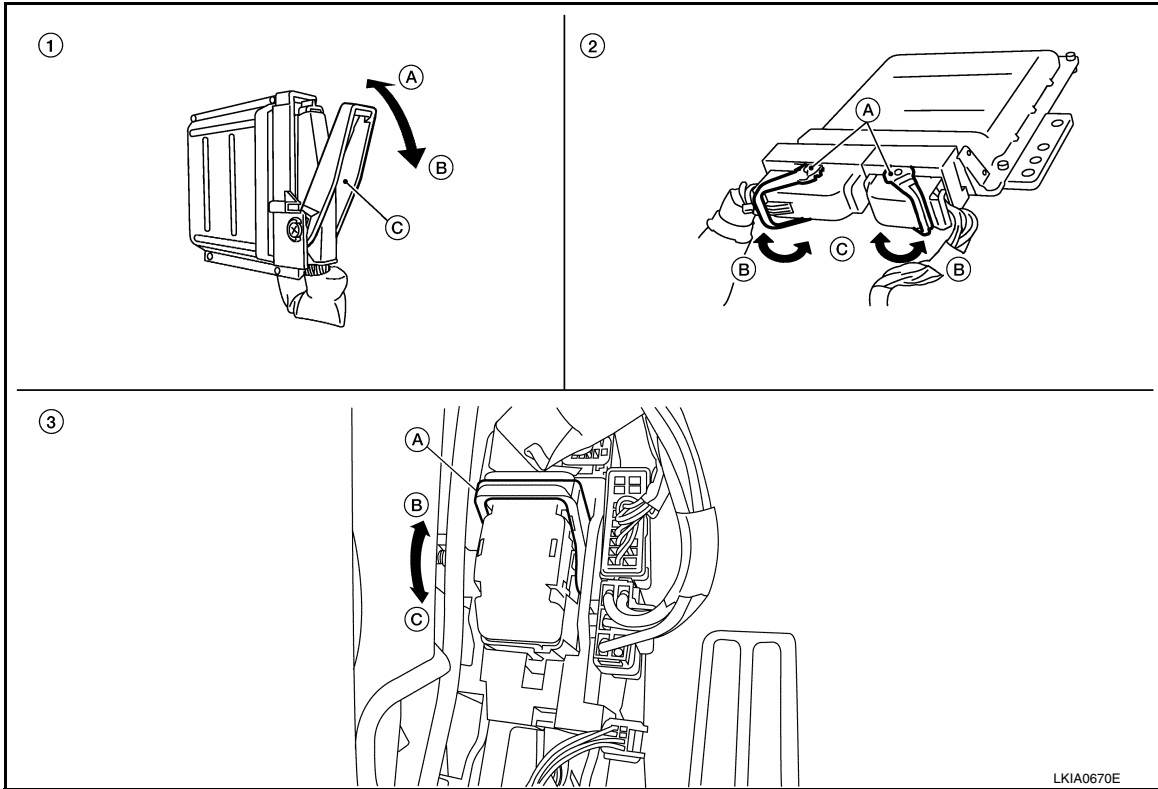
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# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

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



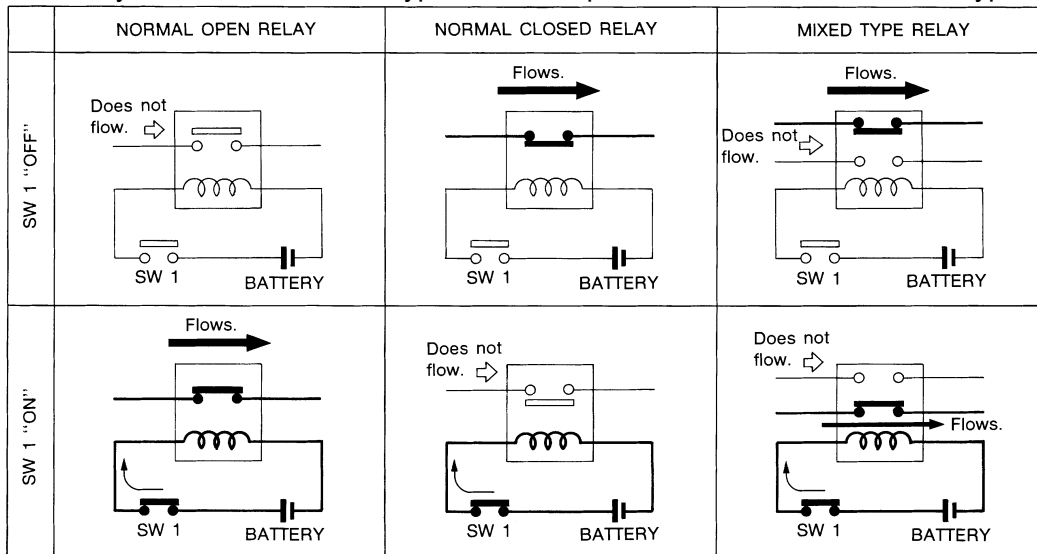
- |                                   |                                  |                  |
|-----------------------------------|----------------------------------|------------------|
| 1. Control unit with single lever | 2. Control unit with dual levers | 3. SMJ connector |
| A. Fasten                         | A. Levers                        | A. Lever         |
| B. Loosen                         | B. Fasten                        | B. Fasten        |
| C. Lever                          | C. Loosen                        | C. Loosen        |

## Standardized Relay

INFOID:000000009131084

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

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



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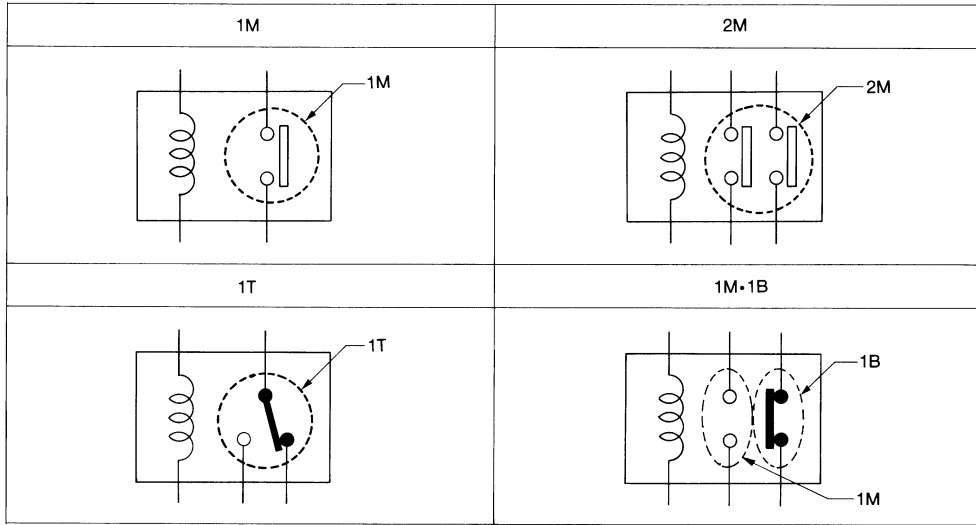
## TYPE OF STANDARDIZED RELAYS

# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

1M ..... 1 Make  
 1T ..... 1 Transfer

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

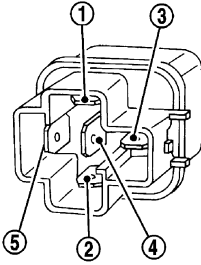
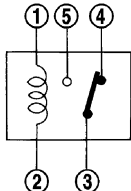
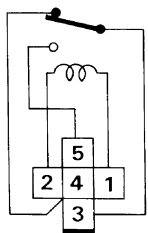
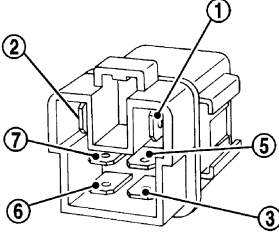
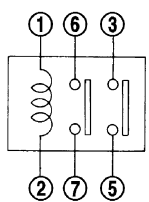
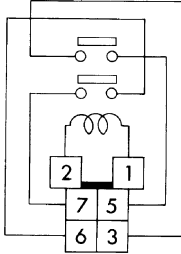
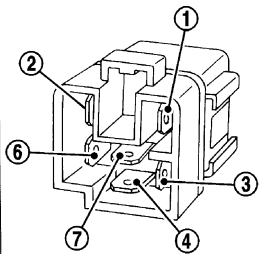
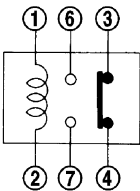
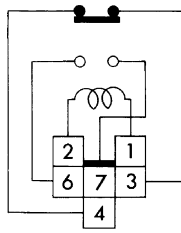
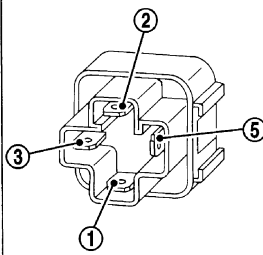
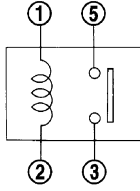
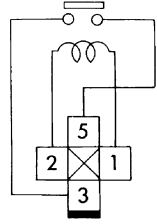
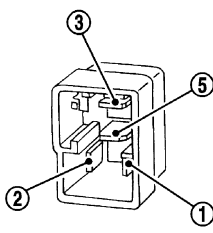
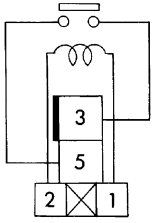


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# COMPONENT PARTS

< SYSTEM DESCRIPTION >

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

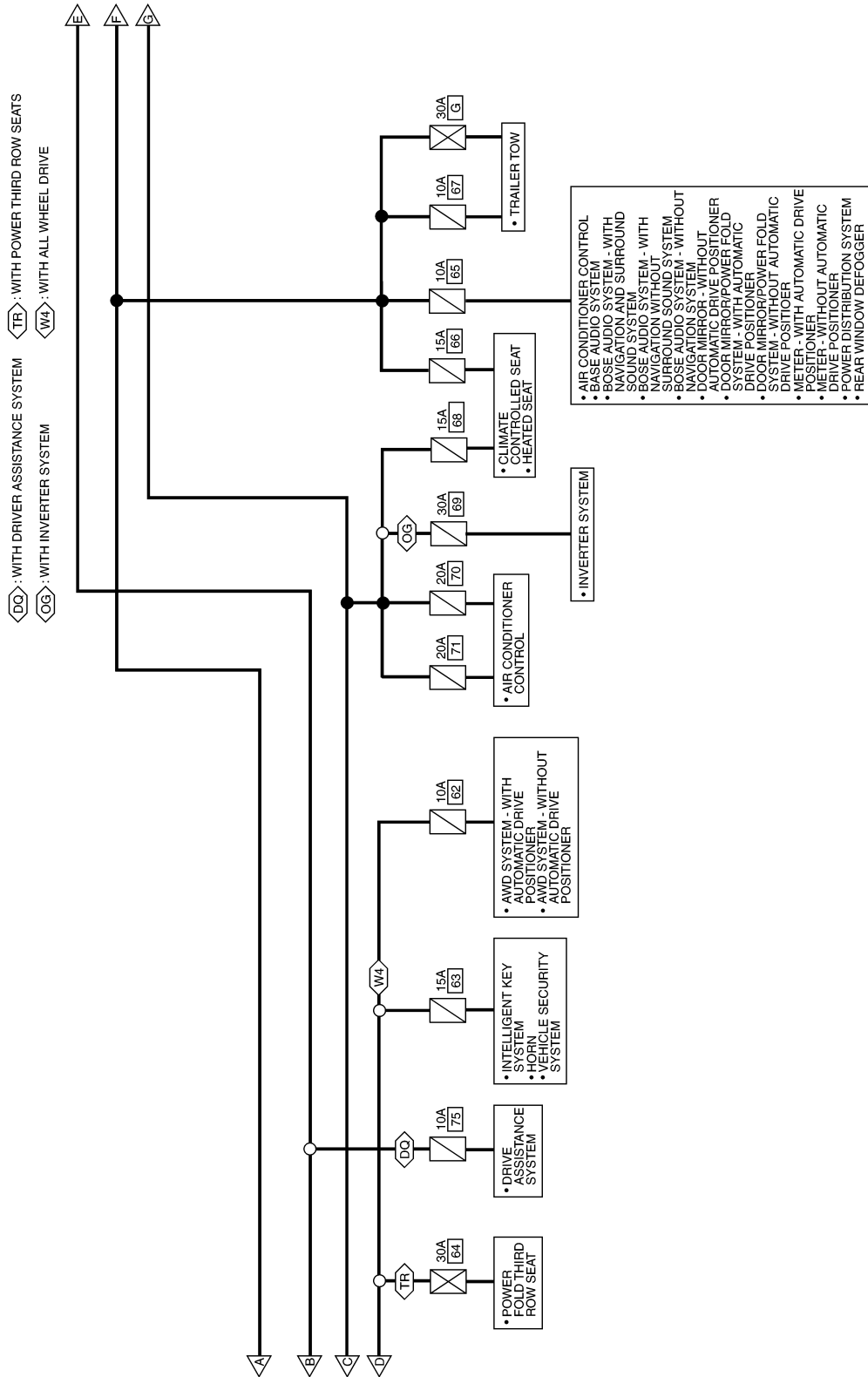
The arrangement of terminal numbers on the actual relays may differ from those shown above.

SEL188W



# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

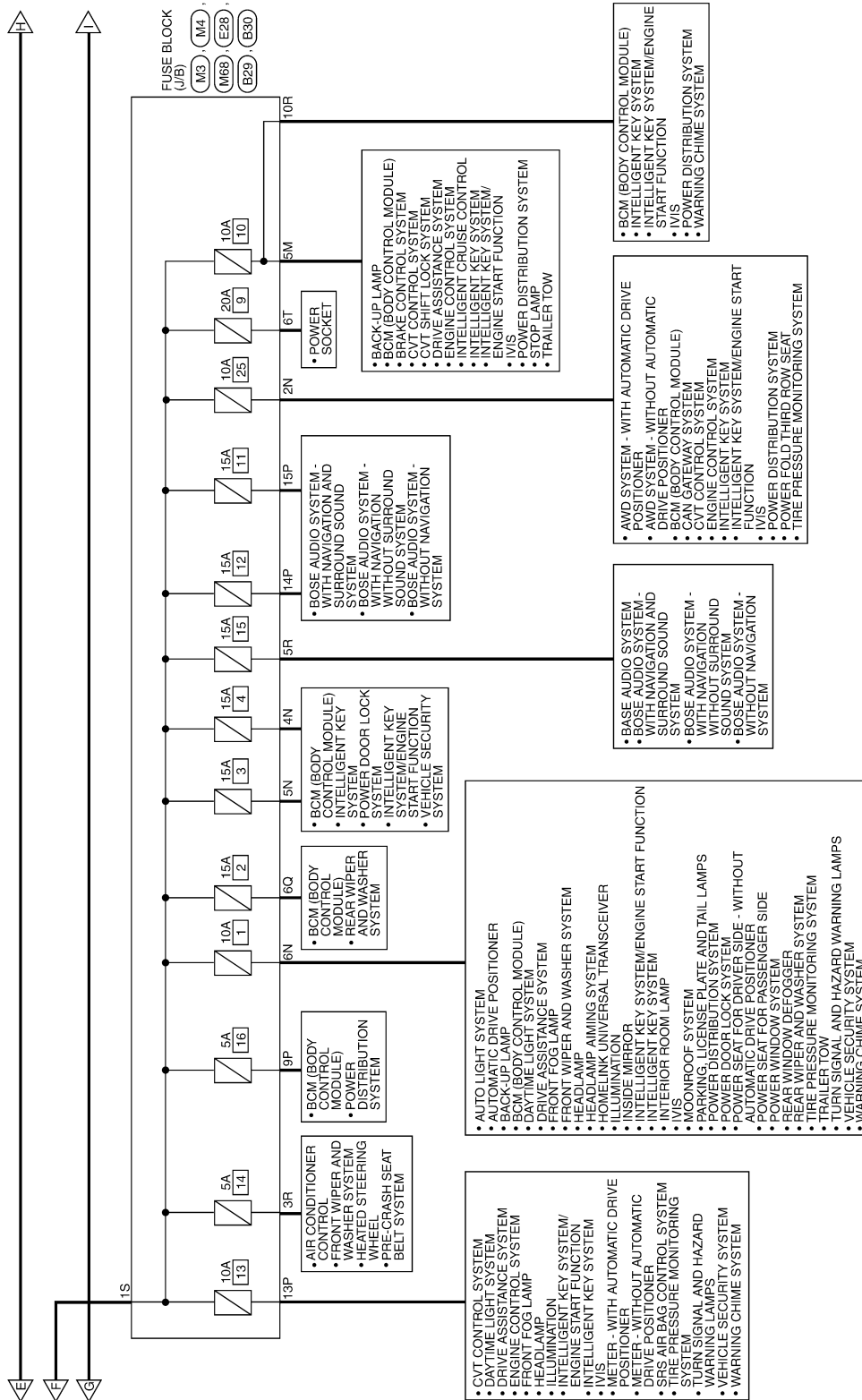


ABMWA2095GB



# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



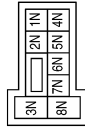
ABMWA2096GB

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BATTERY POWER SUPPLY CONNECTORS

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



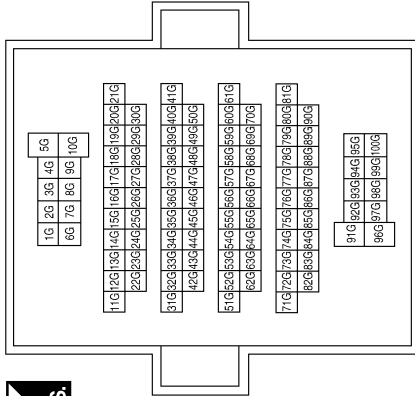
Terminal No.	Color of Wire	Signal Name
2N	BG	-
4N	V	-
5N	Y	-
6N	W	-

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



Terminal No.	Color of Wire	Signal Name
9P	L	-
13P	W	-
14P	Y	-
15P	L	-

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



Terminal No.	10G	Color of Wire	W	Signal Name	-
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Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
3R	G	-
5R	Y	-
10R	W	-

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



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

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

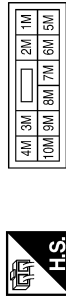
< WIRING DIAGRAM >

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



Terminal No.	5	Color of Wire	W	Signal Name	-
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Connector No.	E28
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	5M	Color of Wire	Y	Signal Name	-
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Connector No.	E27
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BROWN



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

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



Terminal No.	28	Color of Wire	P	Signal Name	CAN-L
29	L				CAN-H
41	B				GND (SIGNAL)

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



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

Connector No.	E63
Connector Name	POWER STEERING CONTROL MODULE
Connector Color	BLACK



Terminal No.	1	Color of Wire	W	Signal Name	+B
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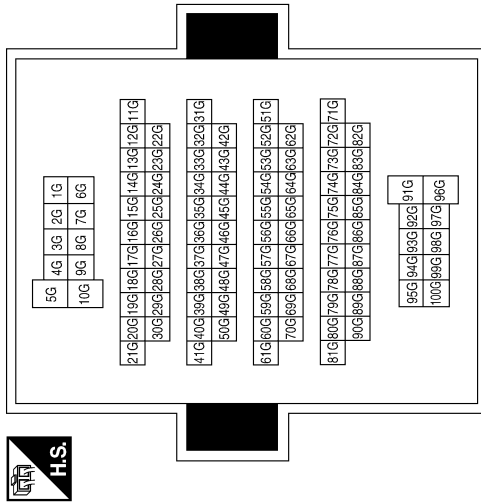
ABMIA4822GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Terminal No.	Color of Wire	Signal Name
10G	P	-

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



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

7	8	9	10	11
12	13	14	15	16
17	18			



Terminal No.	Color of Wire	Signal Name
9	G	TAIL RH
10	L	TAIL LH
13	LG	ECM VB
14	V	DTRL

Connector No.	F6
Connector Name	GENERATOR
Connector Color	-



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

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



82	83	84	85	86	87	88	89
90	91	92	93	94	95	96	97

Terminal No.	Color of Wire	Signal Name
90	LG	CLEARANCE

Connector No.	E217
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



74	75	76
77	78	79
80	81	

Terminal No.	Color of Wire	Signal Name
75	R	HEADLAMP LO RH
76	L	HEADLAMP LO LH
78	W	FR FOG LAMP RH
79	L	FR FOG LAMP LH
80	W	HEADLAMP HI RH
81	G	HEADLAMP HI LH

ABMIA4823GB

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# POWER SUPPLY ROUTING CIRCUIT

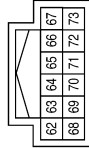
< WIRING DIAGRAM >

Connector No.	F27
Connector Name	STARTER MOTOR
Connector Color	-



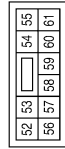
Terminal No.	Color of Wire	Signal Name
B	B/R	-

Connector No.	F24
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
65	G	MOTRLY
72	V	SSOFF

Connector No.	F19
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
52	W	O2SENS #2
53	W	O2SENS #1
57	R	ETC
58	GR	ECM BAT
59	L	ENG SOL

Connector No.	B30
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	6Q	Color of Wire	P	Signal Name	-
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Connector No.	B29
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	6T	Color of Wire	L	Signal Name	-
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Connector No.	F39
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	-



Terminal No.	6	Color of Wire	B/R	Signal Name	-
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ABMIA4824GB

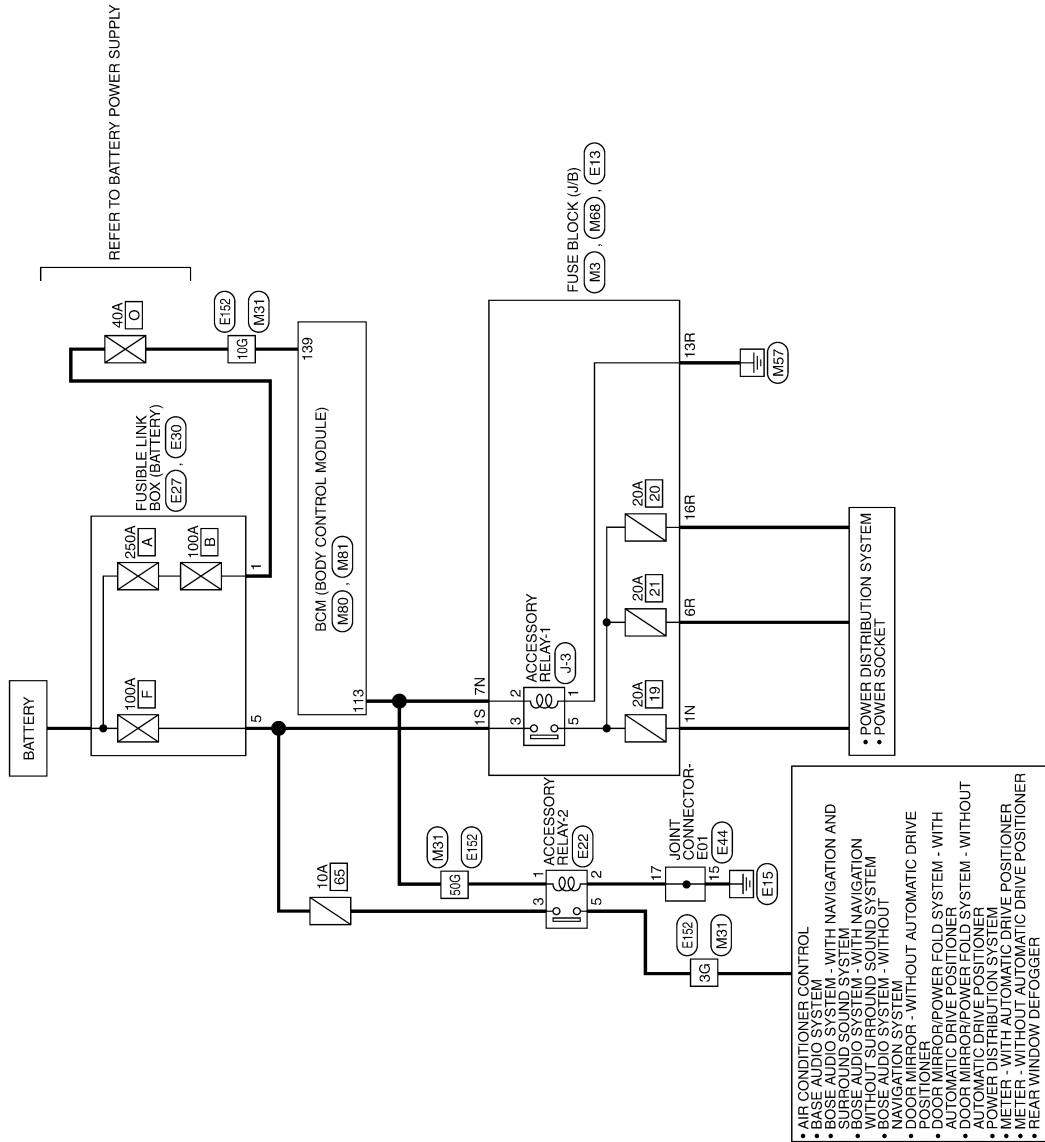
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:00000009131086

### ACCESSORY POWER SUPPLY



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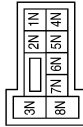
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

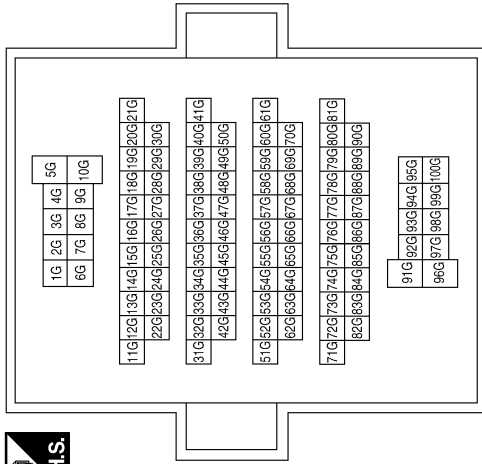
## ACCESSORY POWER SUPPLY CONNECTORS

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



Terminal No.	Color of Wire	Signal Name
1N	LG	-
7N	L	-

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



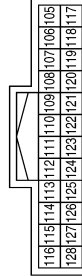
Terminal No.	Color of Wire	Signal Name
3G	P	-
10G	W	-
50G	L	-

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN



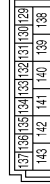
Terminal No.	Color of Wire	Signal Name
6R	Y	-
13R	GR	-
16R	BG	-

Connector No.	M80
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
113	L	ACC RELAY OUT

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
139	W	BAT POWER F/L



# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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



Terminal No.	Color of Wire	Signal Name
1	W	-

Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Color	BLUE



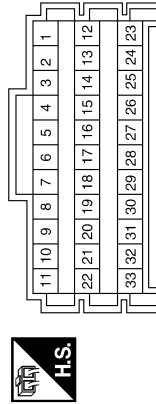
Terminal No.	Color of Wire	Signal Name
1	G	-
2	B	-
3	R	-
5	P	-

Connector No.	E13
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



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

Connector No.	E44
Connector Name	JOINT CONNECTOR-E01
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
15	GR	-
17	B	-

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



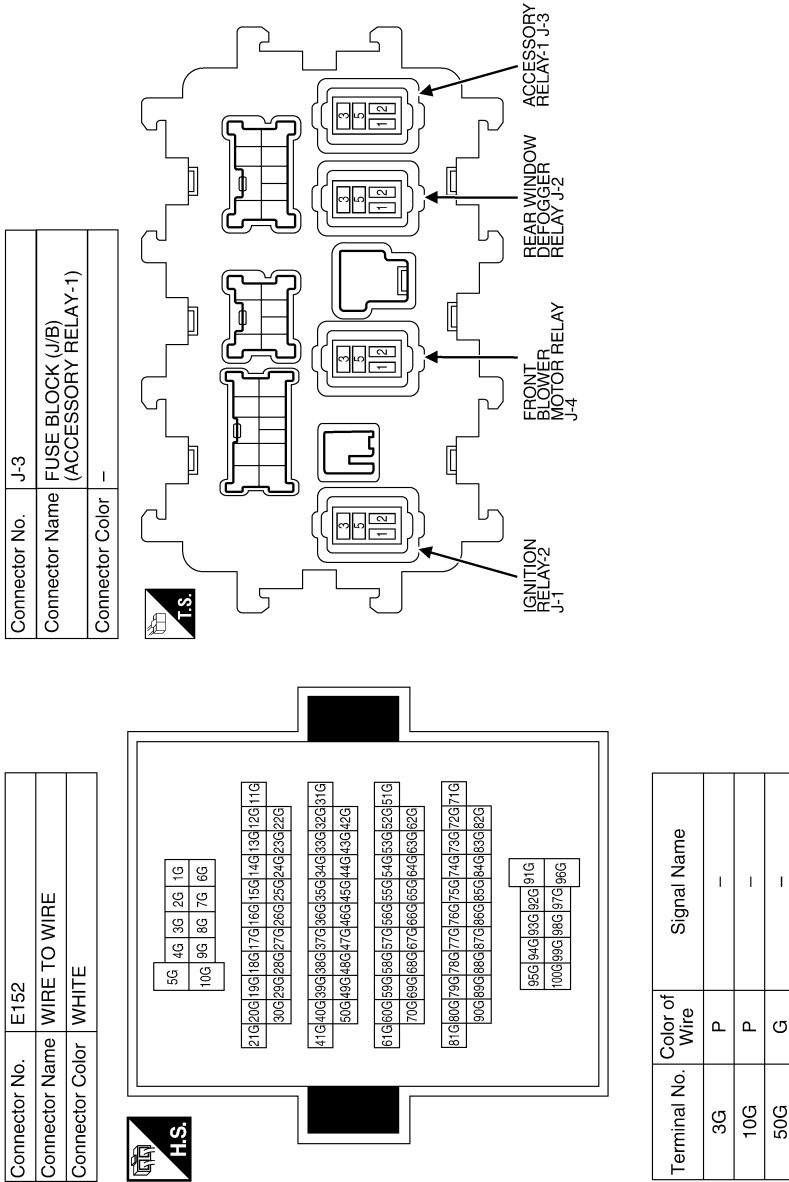
Terminal No.	Color of Wire	Signal Name
5	W	-

ABMIA4825GB

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



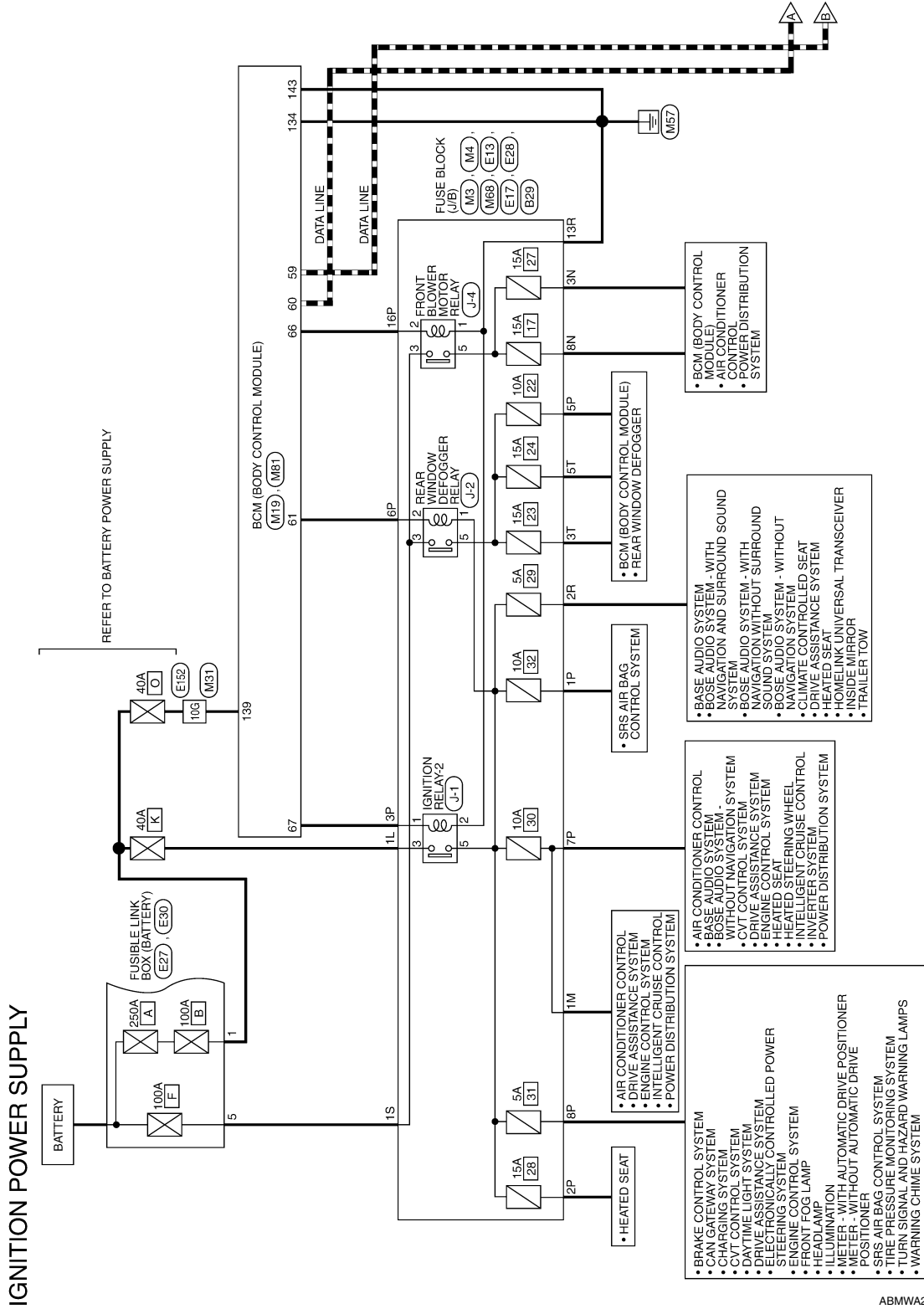
ABMIA4826GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - IGNITION POWER SUPPLY -

INFOID:000000009131087



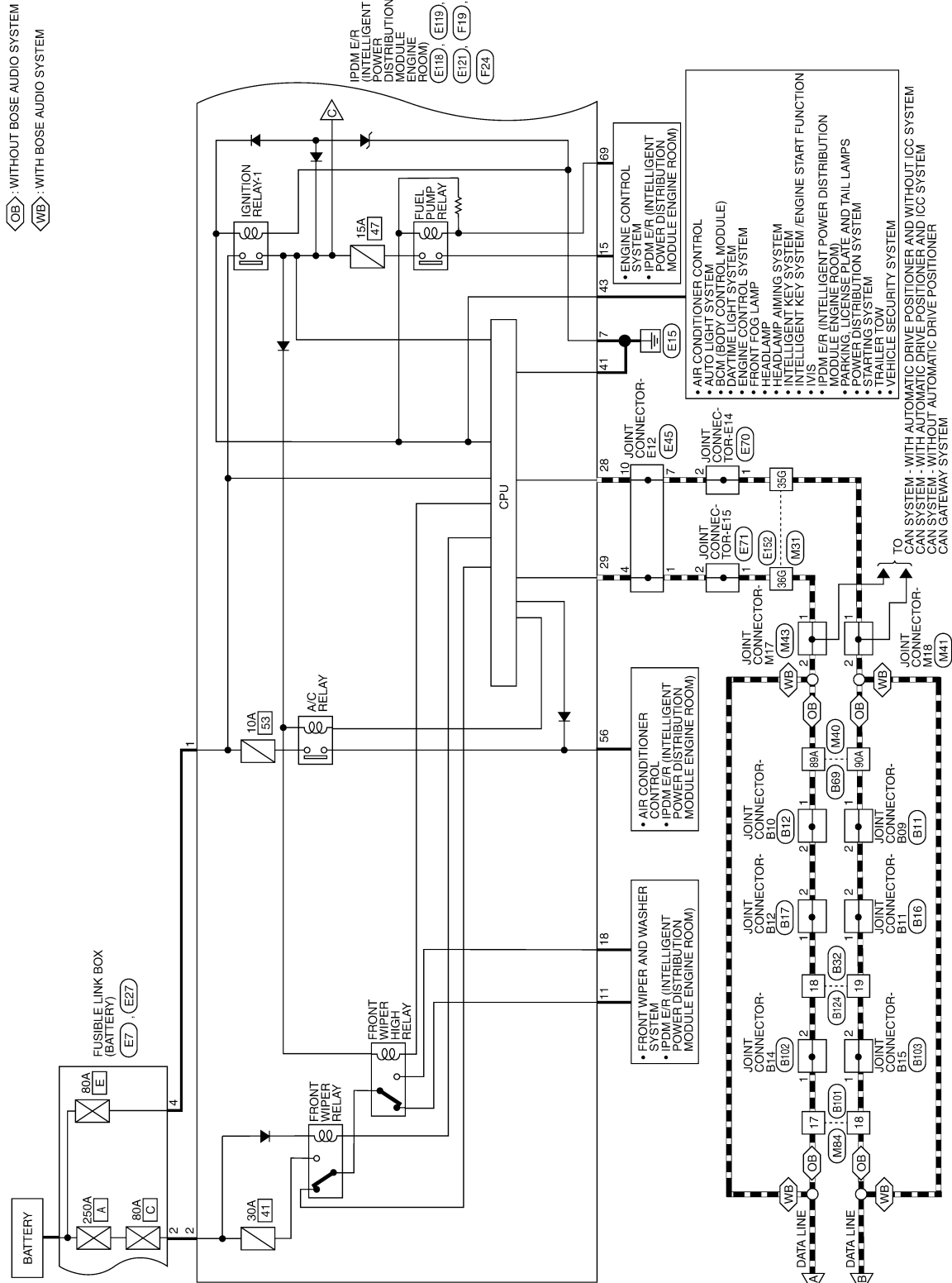
ABMWA2099GB

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

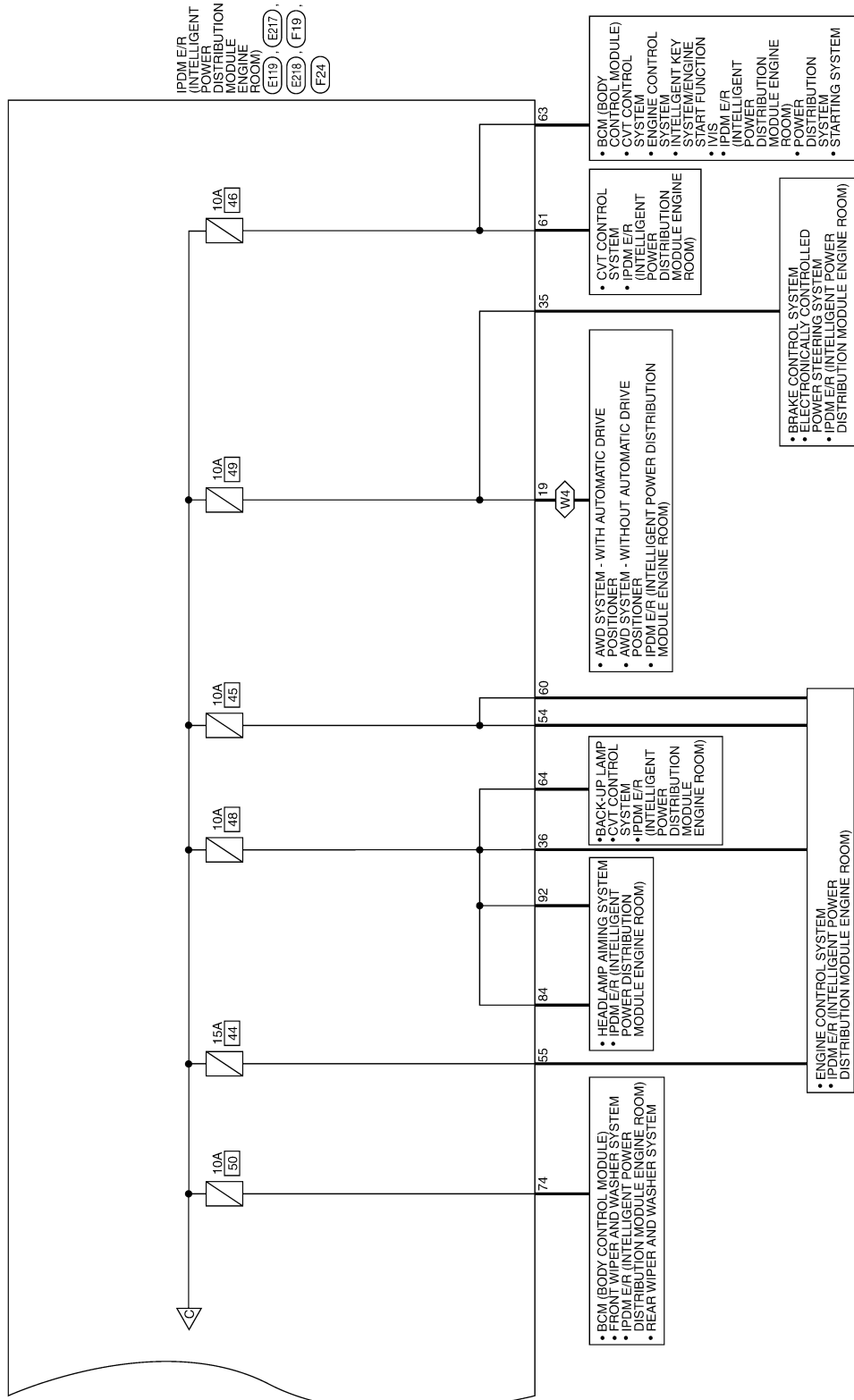


ABMWA2100GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

W4: WITH ALL WHEEL DRIVE



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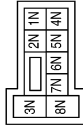
PG

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## IGNITION POWER SUPPLY CONNECTORS

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



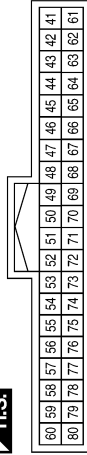
Terminal No.	Color of Wire	Signal Name
3N	L	-
8N	L	-

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



Terminal No.	Color of Wire	Signal Name
1P	R	-
2P	LG	-
3P	G	-
5P	P	-
6P	BG	-
7P	LG	-
8P	BG	-
16P	W	-

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



Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H
61	BG	REAR DEFOGGER RELAY OUT
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2

# POWER SUPPLY ROUTING CIRCUIT

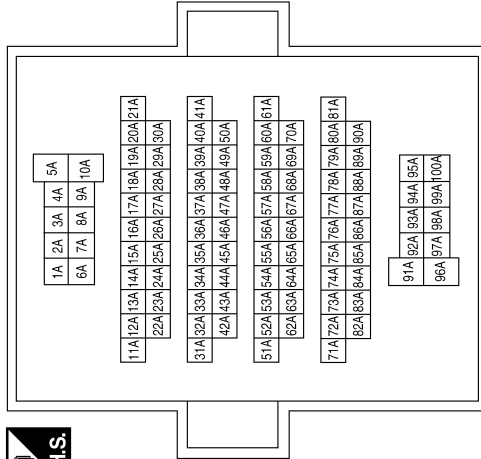
< WIRING DIAGRAM >

Connector No.	M41
Connector Name	JOINT CONNECTOR-M18
Connector Color	WHITE



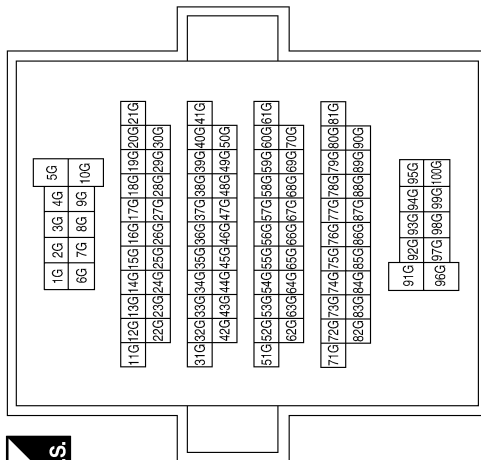
Terminal No.	Color of Wire	Signal Name
1	P	-
2	P	-

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
89A	L	-
90A	P	-

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



Terminal No.	Color of Wire	Signal Name
10G	W	-
35G	P	-
36G	L	-

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



137	138	139	134	133	131	130	129
143	142	141	140	139	138	137	136

Terminal No.	Color of Wire	Signal Name
134	B	GND 2
139	W	BAT POWER F/L
143	B	GND 1

Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN



7R	6R	5R	4R	3R	2R	1R		
16F	15F	14F	13F	12F	11F	10F	9F	8F

Terminal No.	Color of Wire	Signal Name
2R	LG	-
13R	GR	-

Connector No.	M43
Connector Name	JOINT CONNECTOR-M17
Connector Color	WHITE



4	3	2	1
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Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Connector No.	E13
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



1S
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Connector No.	E7
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



4	3
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Terminal No.	Color of Wire	Signal Name
1S	W	-

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Color	WHITE



16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17

Terminal No.	Color of Wire	Signal Name
17	L	-
18	P	-

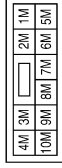
ABMIA3728GB



# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	E28
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	1M	Color of Wire	R	Signal Name	-
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Connector No.	E27
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BROWN



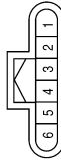
Terminal No.	1	Color of Wire	W	Signal Name	-
2	L				-

Connector No.	E17
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



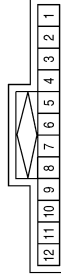
Terminal No.	1L	Color of Wire	G	Signal Name	-
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Connector No.	E70
Connector Name	JOINT CONNECTOR-E14
Connector Color	BLACK



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

Connector No.	E45
Connector Name	JOINT CONNECTOR-E12
Connector Color	BLUE



Terminal No.	1	Color of Wire	L	Signal Name	-
4	L				-
7	P				-
10	P				-

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



Terminal No.	5	Color of Wire	W	Signal Name	-
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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



19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

Terminal No.	Color of Wire	Signal Name
19	SB	SUB ECU
28	P	CAN-L
29	L	CAN-H
35	BR	ABS ECU
36	W	START IG-E/R
41	B	GND (SIGNAL)
43	L	IGN SIGNAL

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	R	F/L MAIN
2	L	F/L USM

Connector No.	E71
Connector Name	JOINT CONNECTOR-E15
Connector Color	BLACK



6	5	4	3	2	1
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Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

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



7	8	9	10	11		
12	13	14	15	16	17	18

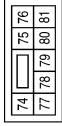
Terminal No.	Color of Wire	Signal Name
7	B	GND (POWER)
11	Y	FR WIPER LO
15	R	FUEL PUMP
18	L	FR WIPER HI

ABMIA4828GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

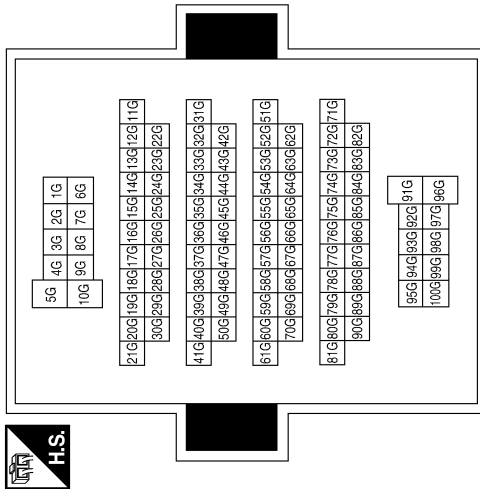
Connector No.	E217
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



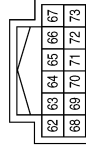
Terminal No.	74	Color of Wire	R	Signal Name	WASH MTR
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Terminal No.	Color of Wire	Signal Name
10G	P	-
35G	P	-
36G	L	-

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



Connector No.	F24
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



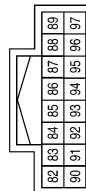
Terminal No.	Color of Wire	Signal Name
63	L	INHIBIT SW
64	LG	START IG EGI
69	W	FPR

Connector No.	F19
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
54	L	INJECTOR #1
55	W	IGN COIL
56	SB	A/C COMP
60	LG	INJECTOR #2
61	Y	AT ECU

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
84	SB	H/L LEVELIZER RH
92	L	H/L LEVELIZER LH

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# POWER SUPPLY ROUTING CIRCUIT

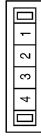
< WIRING DIAGRAM >

Connector No.	B16
Connector Name	JOINT CONNECTOR-B11
Connector Color	WHITE



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

Connector No.	B12
Connector Name	JOINT CONNECTOR-B10
Connector Color	WHITE



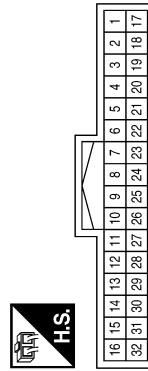
Terminal No.	Color of Wire	Signal Name
1	L	-
2	L	-

Connector No.	B11
Connector Name	JOINT CONNECTOR-B09
Connector Color	WHITE



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

Connector No.	B32
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
18	L	-
19	P	-

Connector No.	B29
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
3T	W	-
5T	G	-

Connector No.	B17
Connector Name	JOINT CONNECTOR-B12
Connector Color	WHITE



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

ABMIA3732GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	B101
Connector Name	WIRE TO WIRE
Connector Color	WHITE

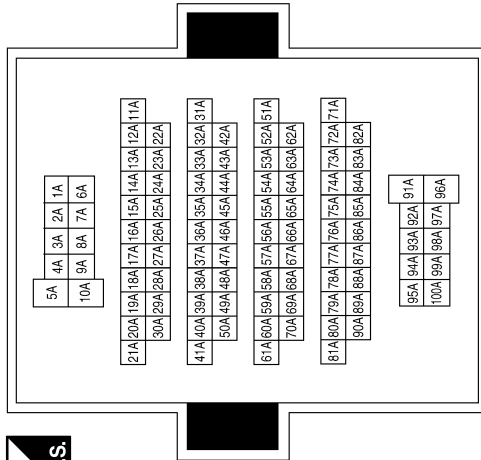


1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

Terminal No.	Color of Wire	Signal Name
17	L	-
18	P	-

Terminal No.	Color of Wire	Signal Name
89A	L	-
90A	P	-

Connector No.	B69
Connector Name	WIRE TO WIRE
Connector Color	GRAY



Connector No.	B124
Connector Name	WIRE TO WIRE
Connector Color	WHITE



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

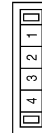
Terminal No.	Color of Wire	Signal Name
18	L	-
19	P	-

Connector No.	B103
Connector Name	JOINT CONNECTOR-B15
Connector Color	WHITE



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

Connector No.	B102
Connector Name	JOINT CONNECTOR-B14
Connector Color	WHITE



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

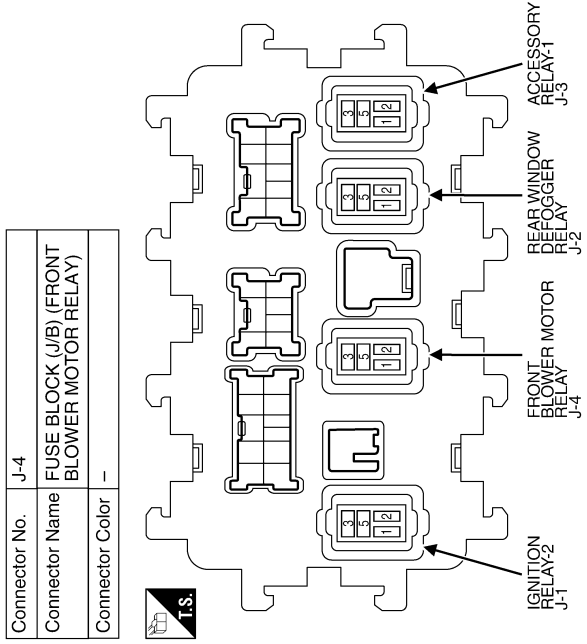
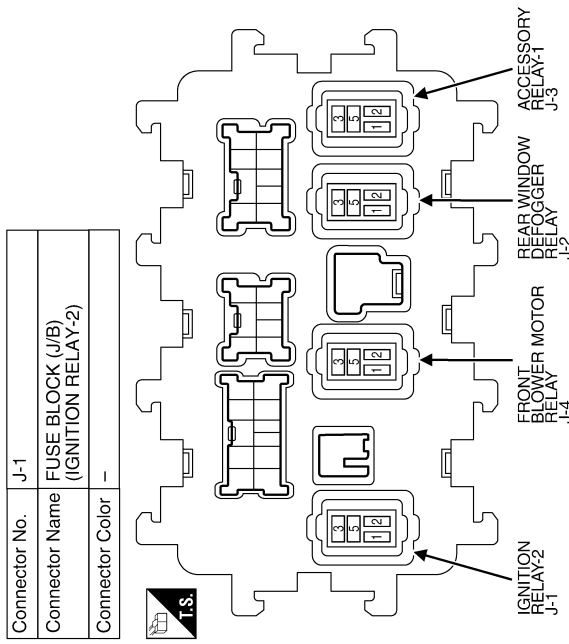
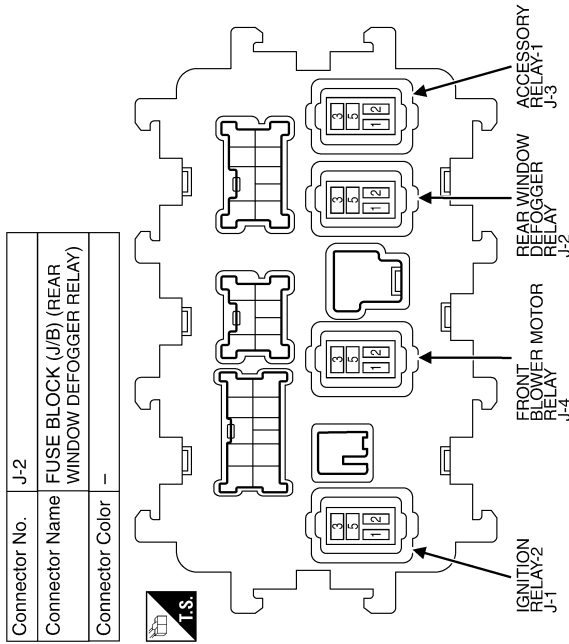
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



ABMIA3740GB

# GROUND

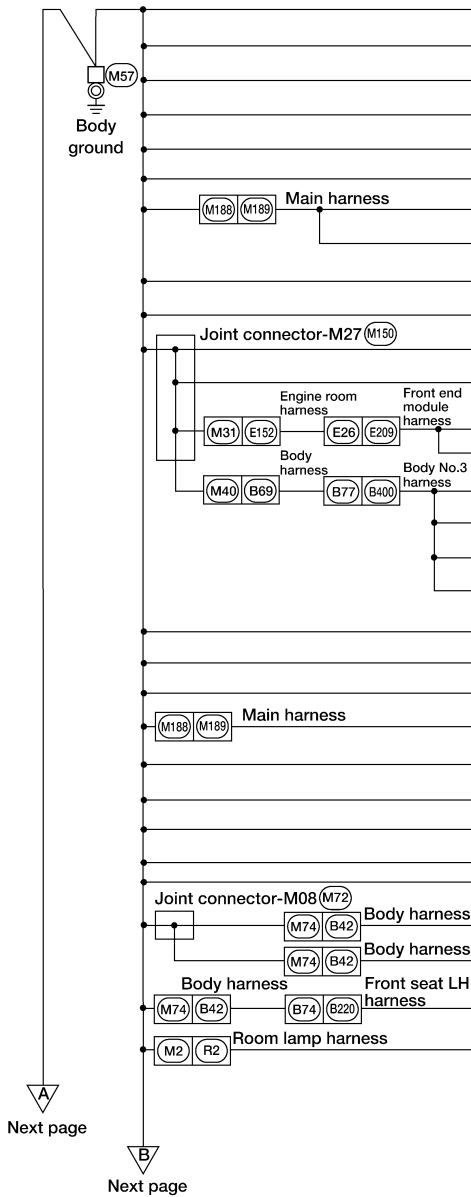
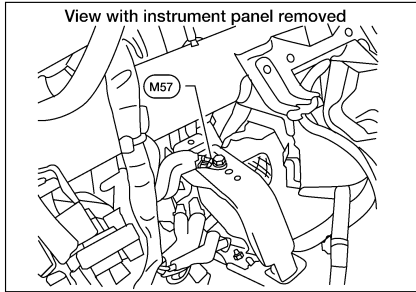
< WIRING DIAGRAM >

## GROUND

### Ground Distribution

INFOID:000000009131088

### MAIN HARNESS



CONNECTOR NUMBER	CONNECT TO
(M16)	ADP steering switch
(M22)	Data link connector (Terminal No. 4)
(M22)	Data link connector (Terminal No. 5)
(M24)	Combination meter (Terminal No. 1)
(M24)	Combination meter (Terminal No. 2)
(M28)	Combination switch
(M48)	Heated steering wheel switch (Terminal No. 2)
(M48)	Heated steering wheel switch (Terminal No. 6)
(M54)	Steering angle sensor
(M68)	Fuse block (J/B)
(M70)	Sonar control unit (Terminal No. 15)
(M70)	Sonar control unit shield
(E307)	Front sonar sensor LH outer shield
(E308)	Front sonar sensor RH outer shield
(B455)	Rear sonar sensor LH outer shield
(B456)	Rear sonar sensor RH outer shield
(B457)	Rear sonar sensor LH inner shield
(B458)	Rear sonar sensor RH inner shield
(M71)	VDC OFF switch
(M81)	BCM (body control module) (Terminal No. 134)
(M81)	BCM (body control module) (Terminal No. 143)
(M88)	A/C 120V outlet main switch
(M98)	A/C and AV switch assembly
(M117)	PTC heater (Terminal No. 2)
(M121)	Headlamp aiming switch
(M185)	Automatic back door main switch
(M186)	Automatic back door switch
(B82)	Inverter unit shield
(B82)	Inverter unit (Terminal No. 8)
(B205)	Climate controlled seat control unit (driver seat) (Terminal No. 30) (with rear entertainment system)
(R4)	Moonroof motor assembly

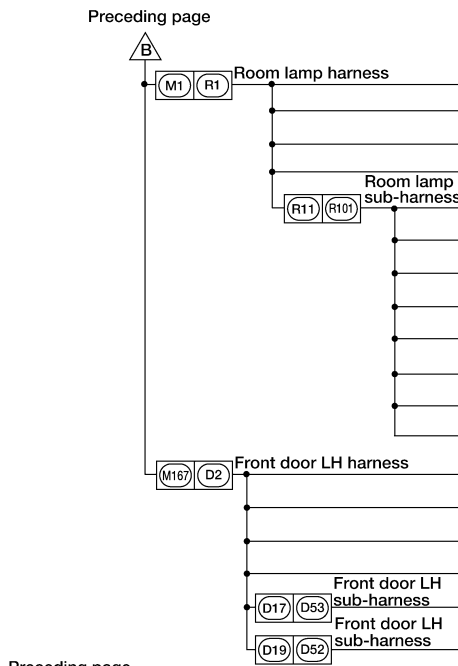
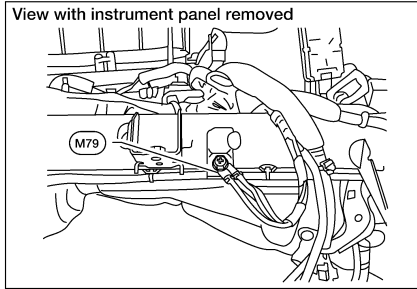
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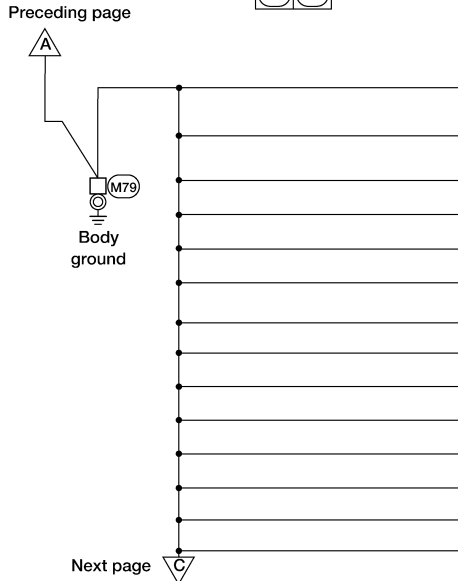
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# GROUND

< WIRING DIAGRAM >



CONNECTOR NUMBER	CONNECT TO
R5	Lane camera unit (Terminal No. 1)
R5	Lane camera unit (Terminal No. 5)
R10	Auto anti-dazzling inside mirror
R12	Rain sensor
R102	Vanity lamp RH
R103	Vanity lamp LH
R104	Cargo lamp
R105	Telematics switch
R106	Personal lamps 2nd row
R107	Front room/map lamp assembly
R108	Moonroof switch
R110	Sunshade switch
D4	Door mirror LH (without around view monitor)
D6	Door mirror LH (with around view monitor)
D14	Front door lock assembly LH
D15	Front outside handle assembly LH
D56	Main power window and door lock/unlock switch (Terminal No. 7)
D60	Seat memory switch



CONNECTOR NUMBER	CONNECT TO
M17	Push-button ignition switch
M34	Automatic drive positioner control unit (without automatic drive positioner) (Terminal No. 30)
M35	Air bag diagnosis sensor unit (Terminal No. 2)
M44	AV control unit (Terminal No. 52) (with base audio system)
M47	TCU (Terminal No. 2)
M47	TCU (Terminal No. 7)
M50	A/C auto amp. (Terminal No. 2)
M50	A/C auto amp. (Terminal No. 22)
M52	Combination switch (spiral cable)
M59	Glove box lamp
M60	Warning buzzer
M76	Electric brake (pre-wiring)
M76	CVT shift selector
M92	Display unit (Terminal No. 12) (with NAVI)

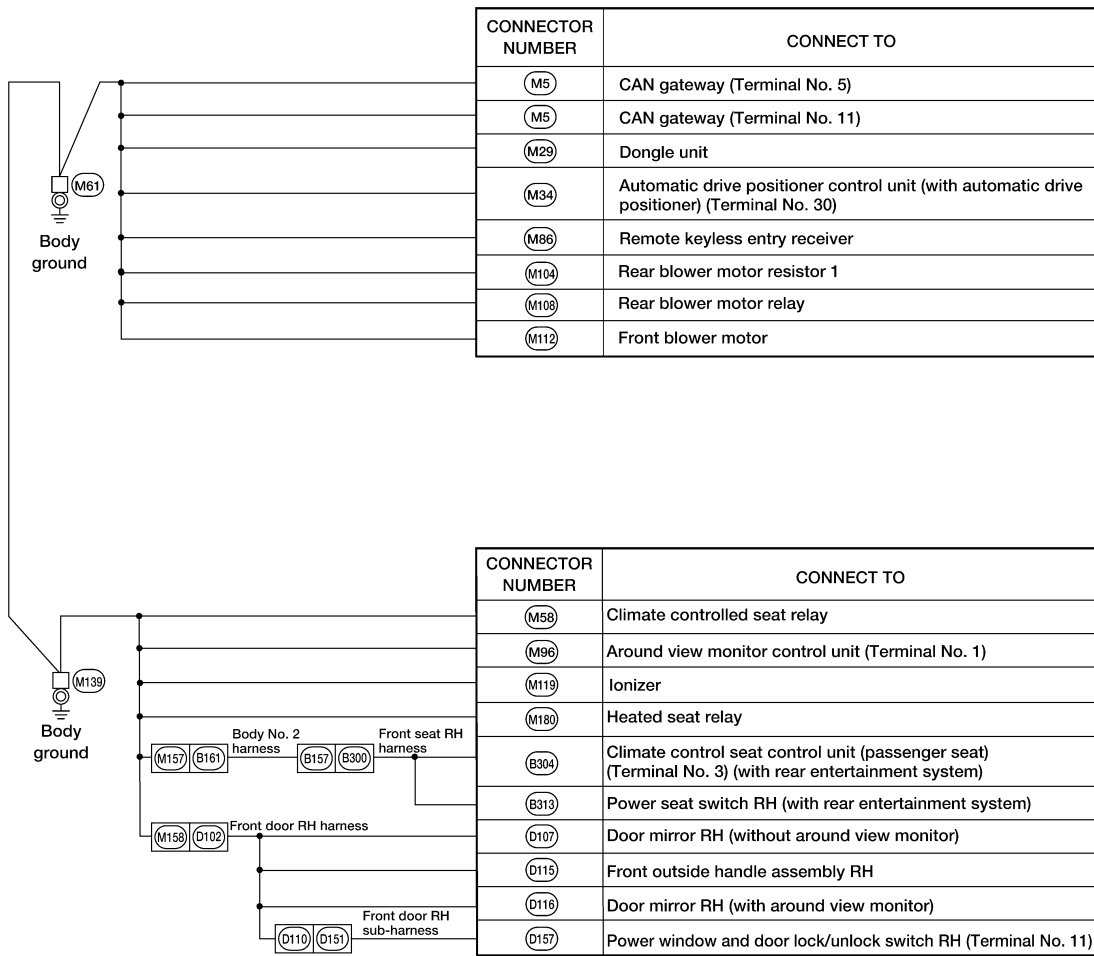
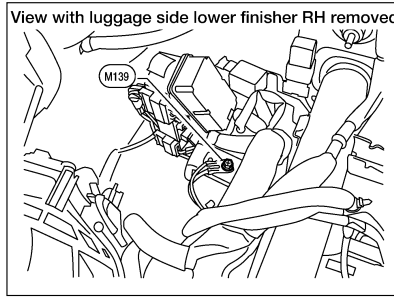
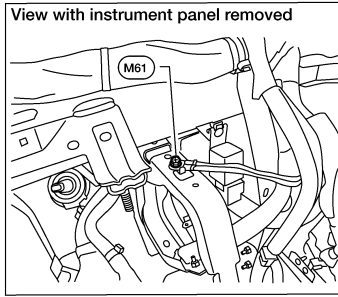
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# GROUND

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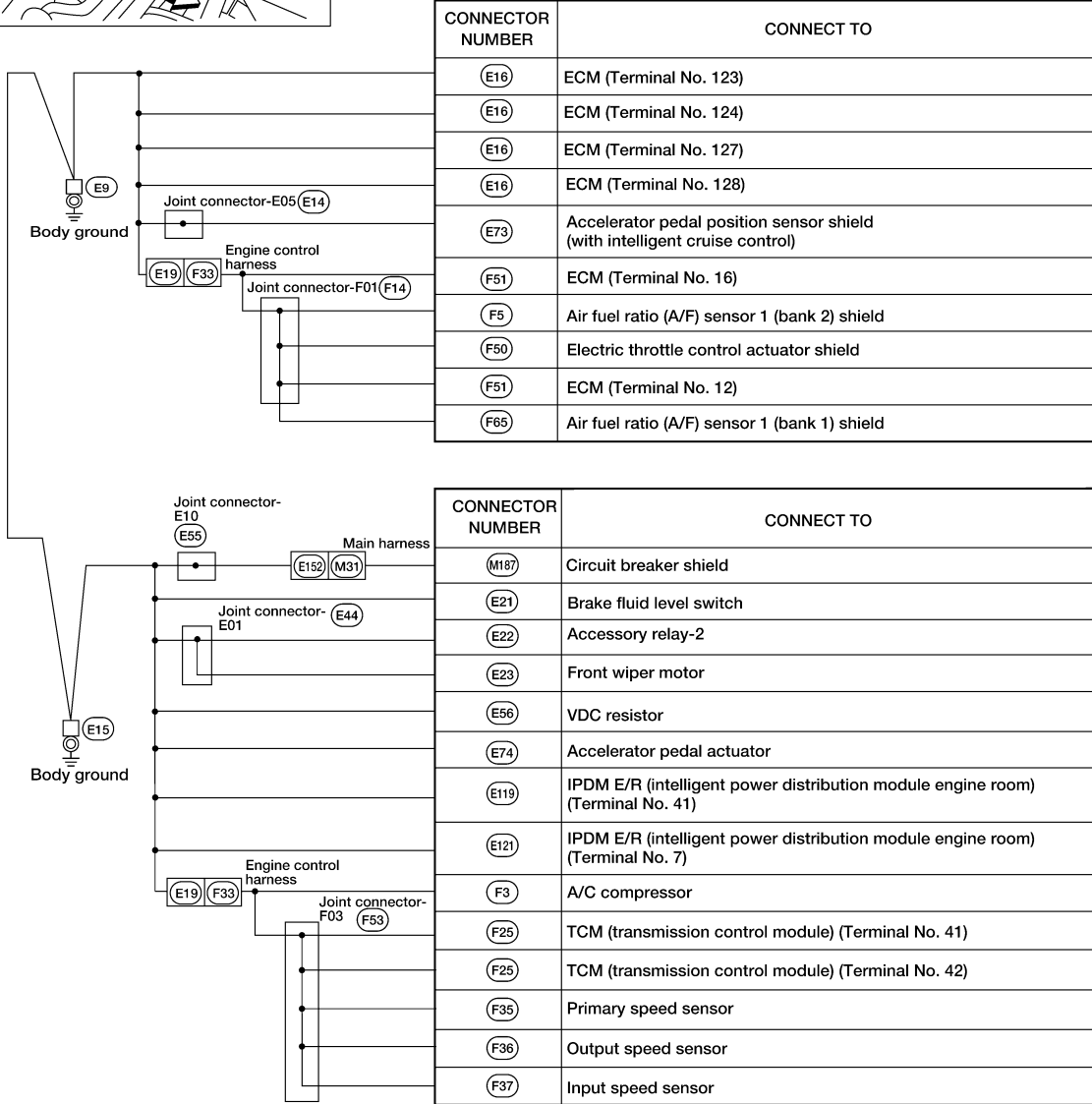
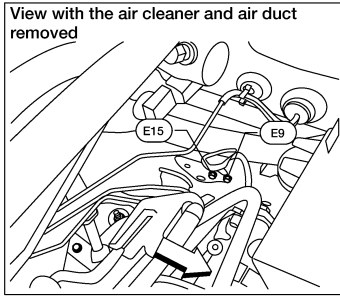


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# GROUND

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## ENGINE ROOM HARNESS



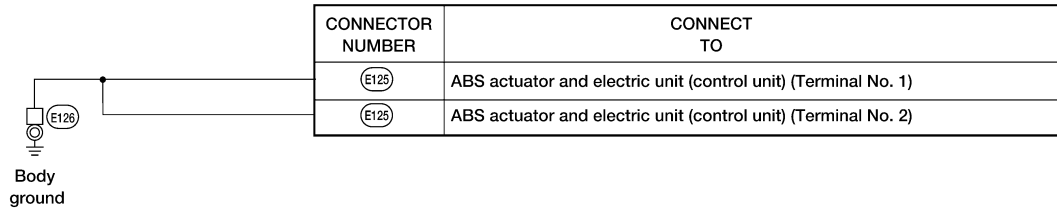
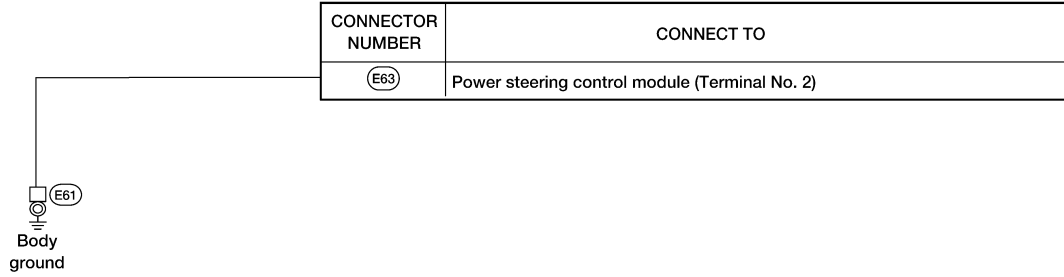
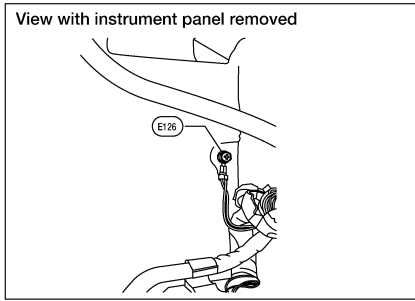
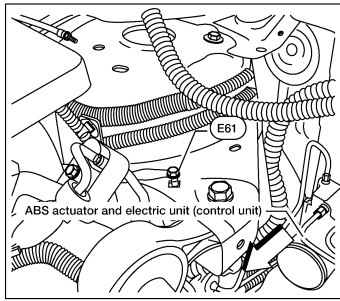
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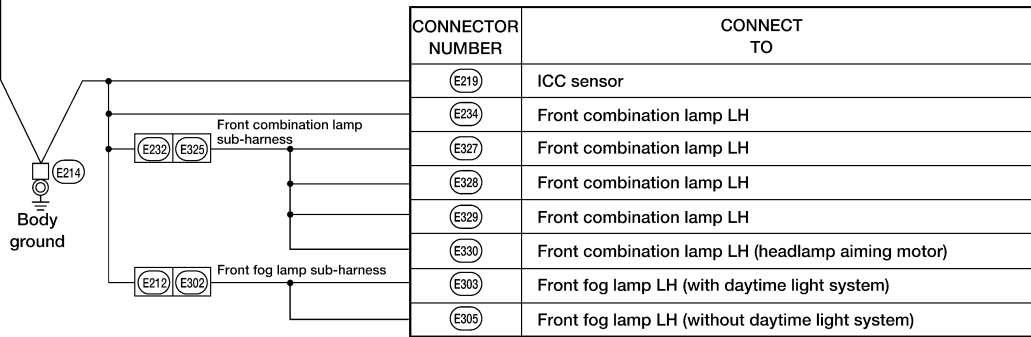
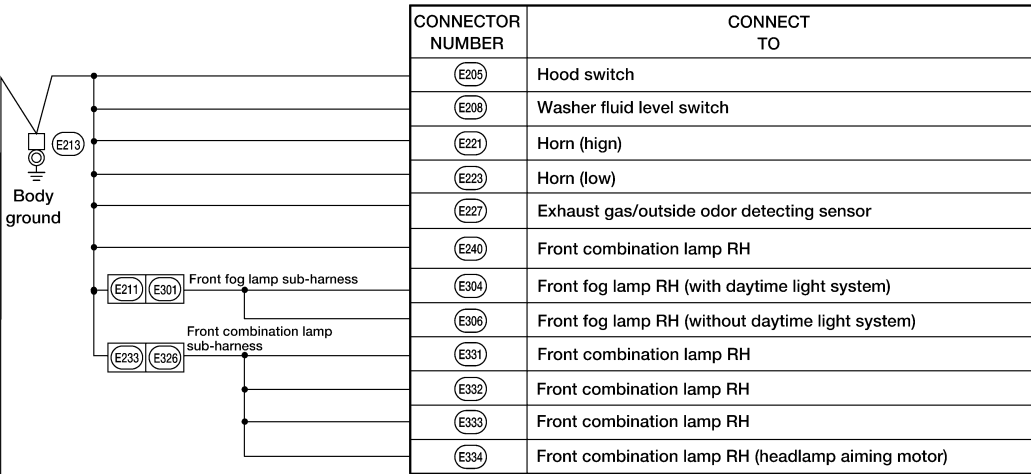
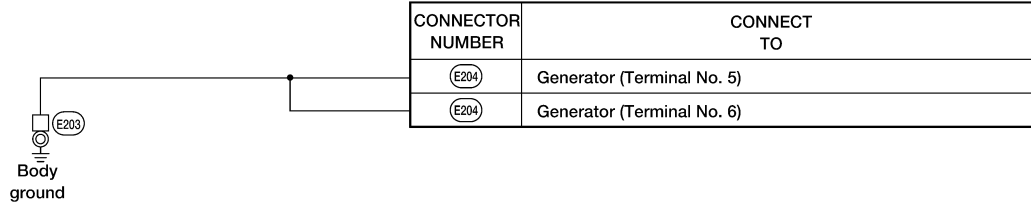
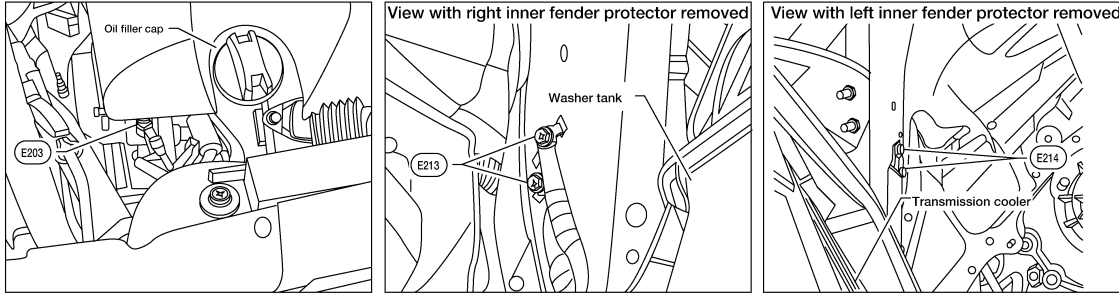


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# GROUND

< WIRING DIAGRAM >

## FRONT END MODULE HARNESS

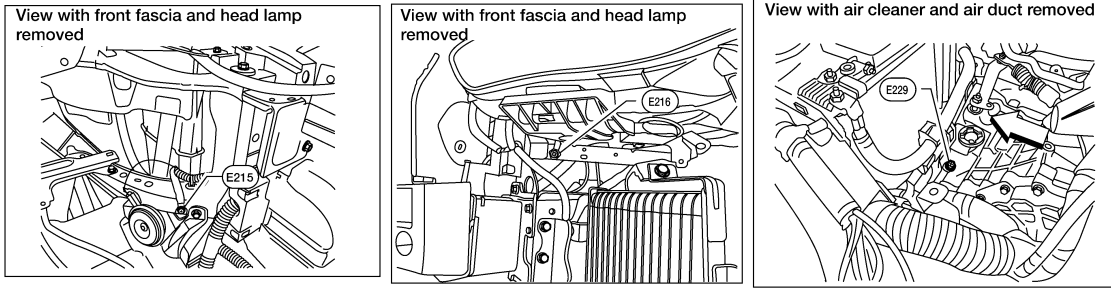


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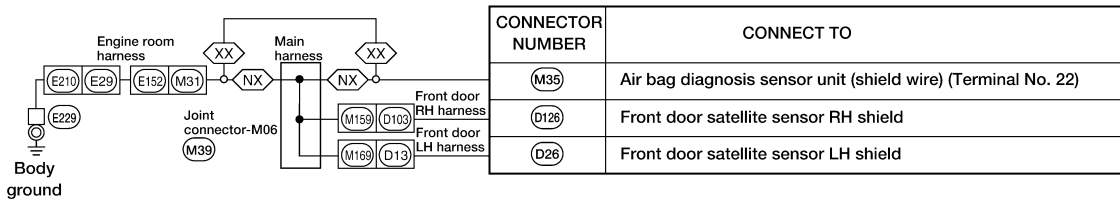
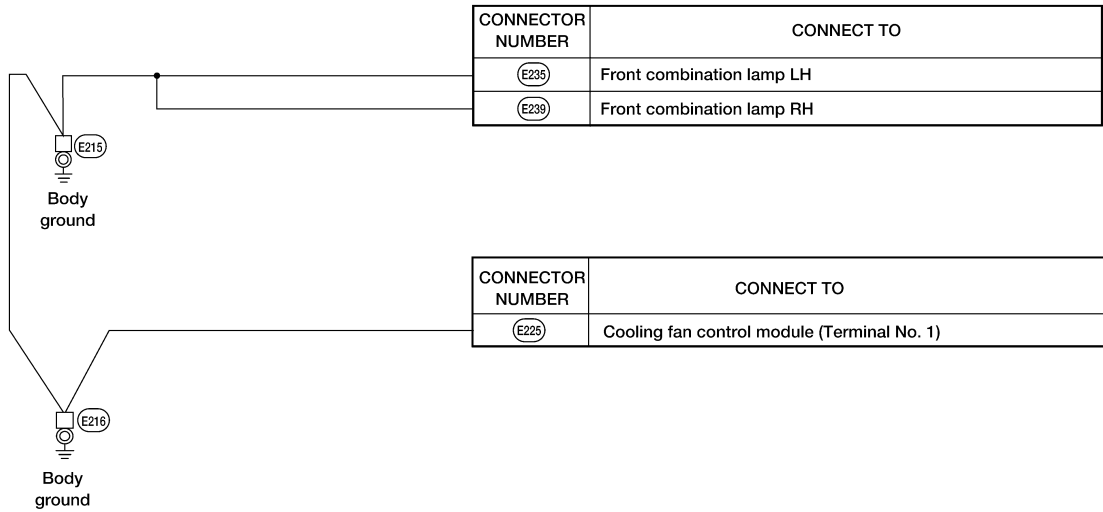
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**XX** : FOR MEXICO

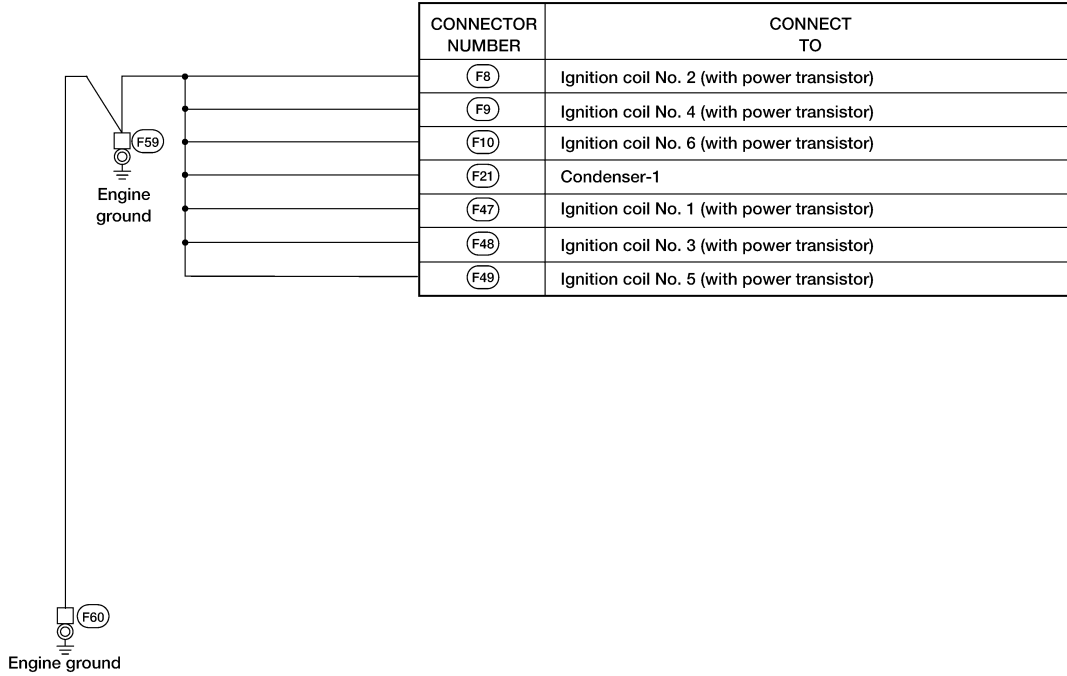
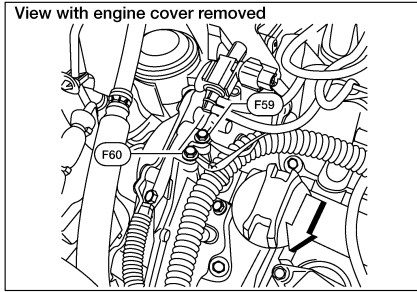


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# GROUND

< WIRING DIAGRAM >

## ENGINE CONTROL HARNESS



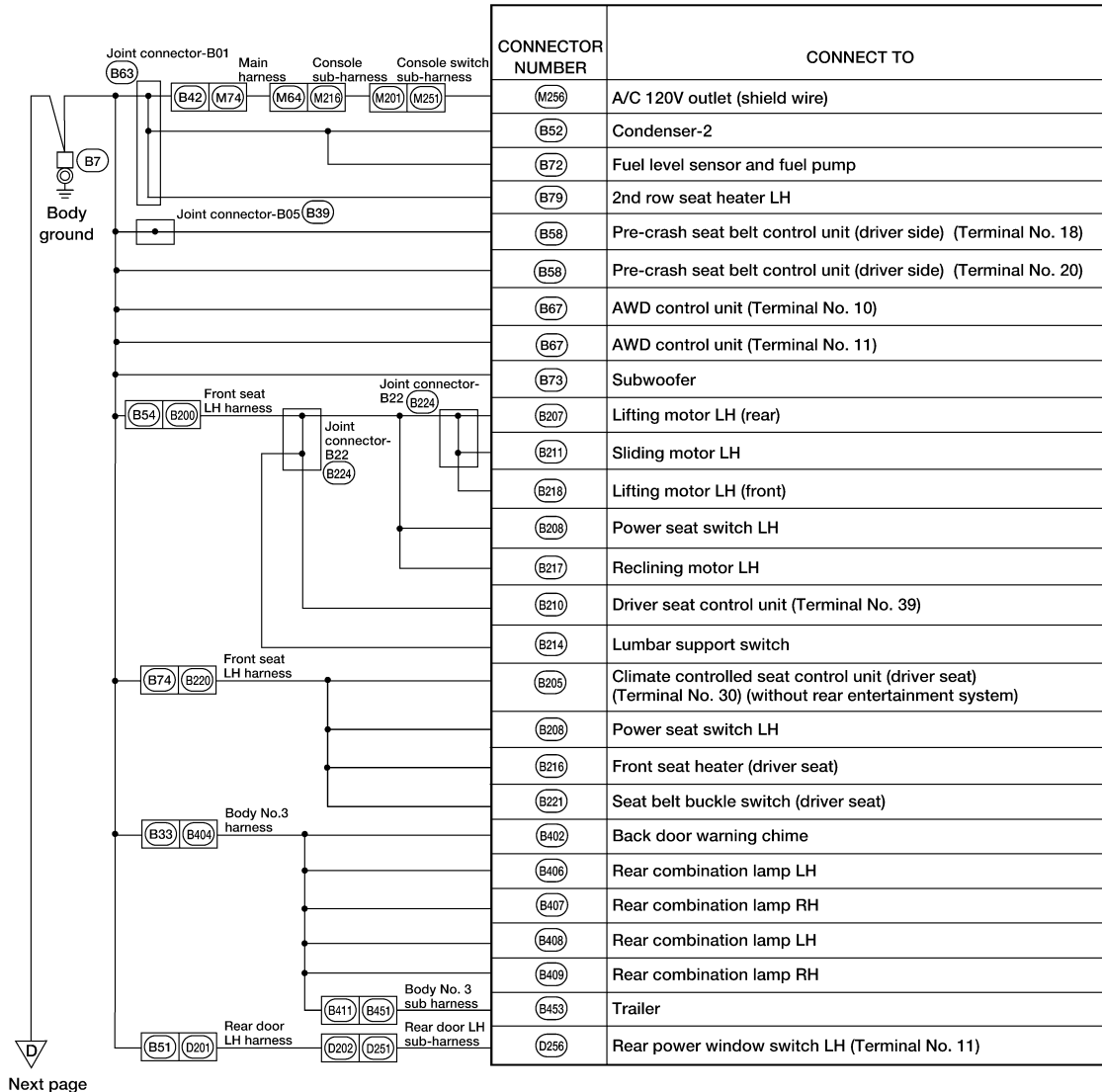
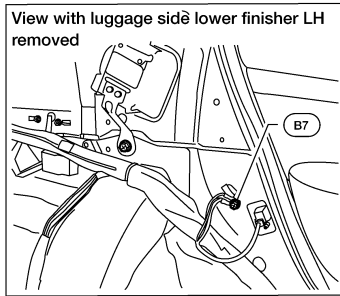
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# GROUND

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## BODY HARNESS

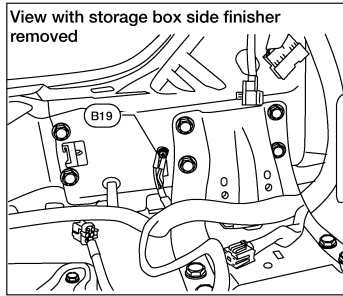


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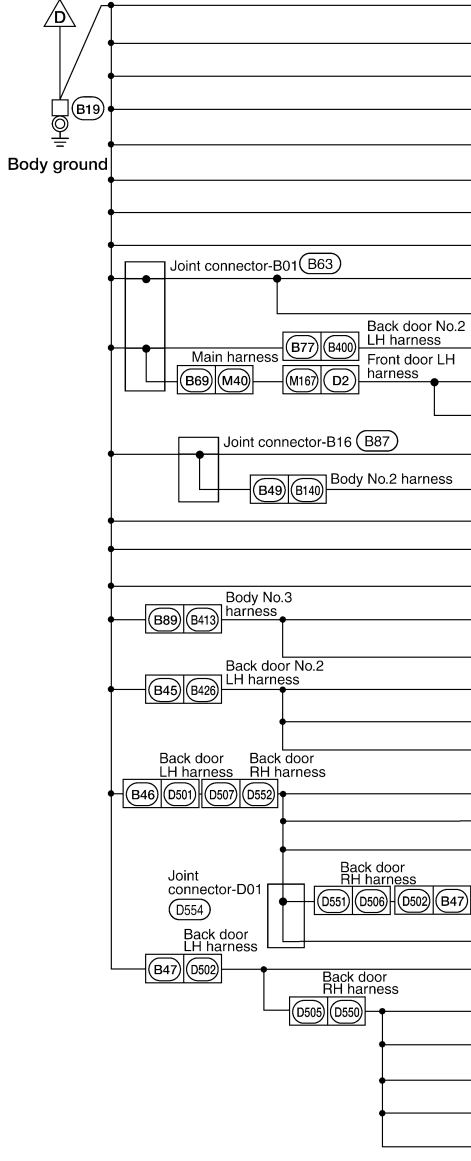


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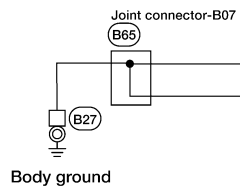
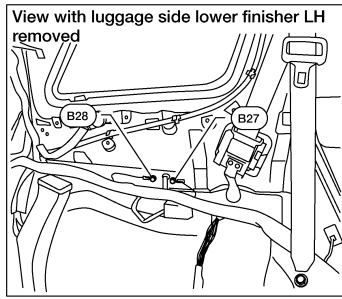
CONNECTOR NUMBER	CONNECT TO
(B2)	Satellite radio tuner
(B3)	Bluetooth® control unit (Terminal No. 4)
(B3)	Bluetooth® control unit (Terminal No. 20)
(B3)	Bluetooth® control unit (Terminal No. 23)
(B3)	Bluetooth® control unit (Terminal No. 24)
(B3)	Bluetooth® control unit (Terminal No. 27)
(B24)	Video distributor (Terminal No. 1)
(B24)	Video distributor (Terminal No. 3)
(B56)	Automatic back door control module shield
(B56)	Automatic back door control module (Terminal No. 32)
(B418)	Side radar LH
(D21)	Blind spot warning/blind spot intervention indicator LH
(D21)	Blind spot warning/blind spot intervention indicator LH shield
(B70)	Spindle unit LH (shield wire)
(B182)	Spindle unit RH (shield wire)
(B81)	Rear cargo power socket
(B85)	Sunshade motor assembly
(B90)	Third row power folding seat switch driver side
(B412)	Third row power folding seat control unit (Terminal No. 12)
(B412)	Third row power folding seat control unit (Terminal No. 25)
(B427)	Trailer tow relay 1
(B428)	Trailer tow relay 2
(B431)	Trailer back-up relay
(D557)	Back door lock assembly
(D559)	Back door opener switch (Terminal No. 2)
(D559)	Back door opener switch (Terminal No. 3)
(B56)	Automatic back door control module (shield wire) (Terminal No. 28)
(D560)	Automatic back door close switch
(D503)	High-mounted stop lamp
(D553)	Rear wiper motor
(D561)	License plate lamp LH
(D562)	License plate lamp RH
(D563)	Back-up lamp RH
(D564)	Back-up lamp LH

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## < WIRING DIAGRAM >



CONNECTOR NUMBER	CONNECT TO
B9	Air bag diagnosis sensor unit (shield wire) (Terminal No. 55)
B71	Rear side air bag satellite sensor LH shield



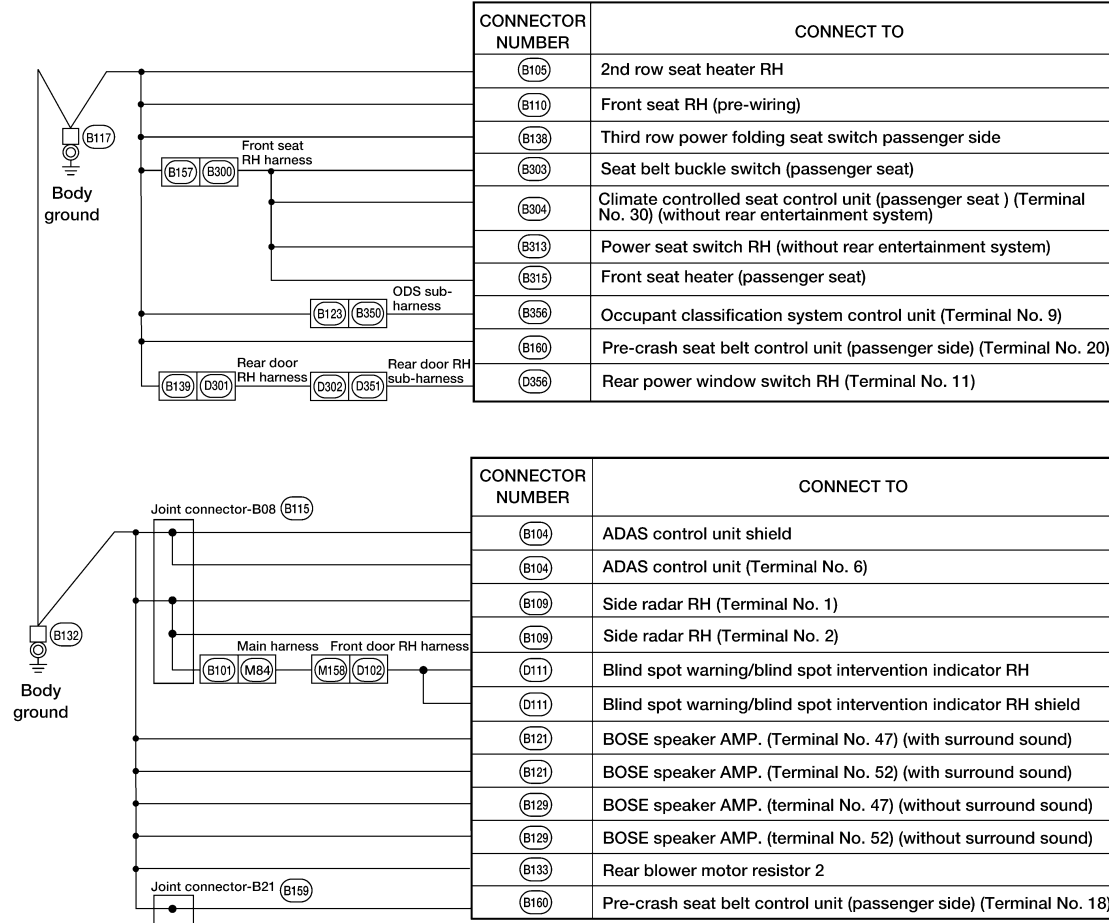
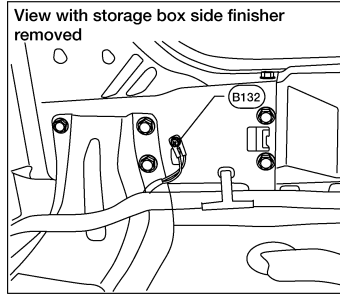
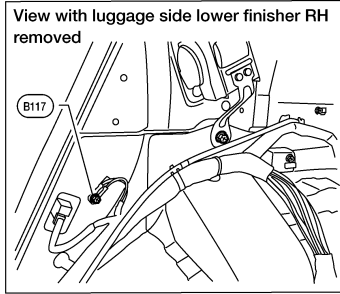
CONNECTOR NUMBER	CONNECT TO
B38	LH side curtain air bag module shield

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# GROUND

< WIRING DIAGRAM >

## BODY NO. 2 HARNESS



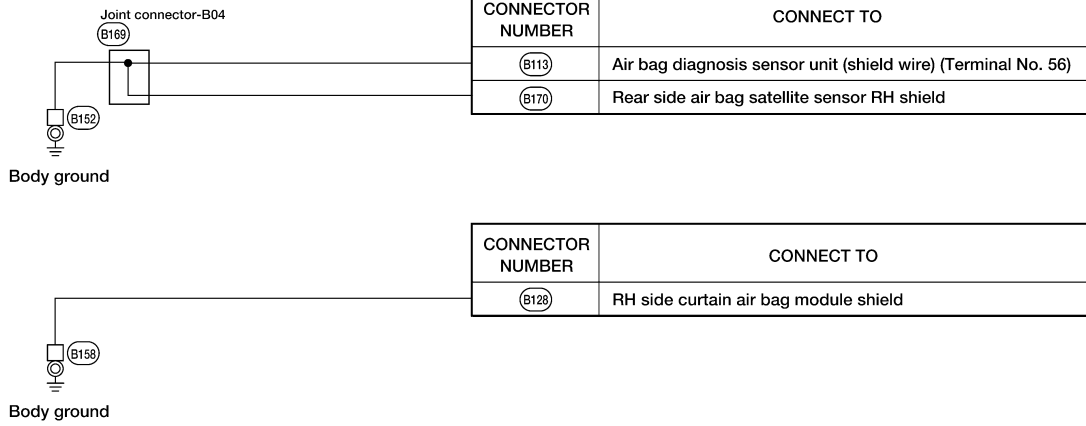
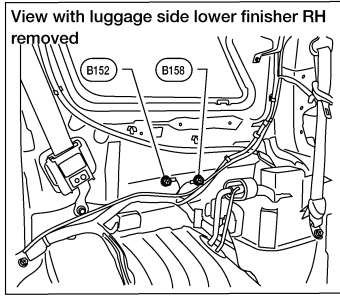
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## < WIRING DIAGRAM >

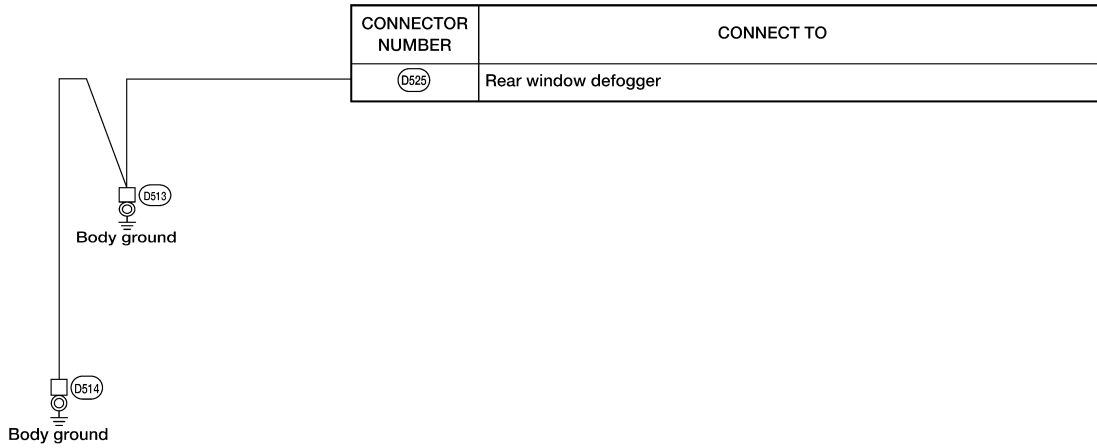
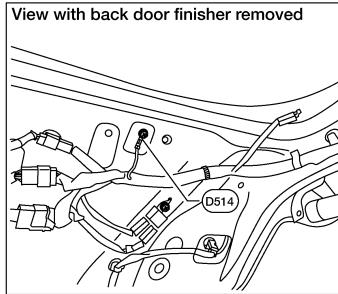
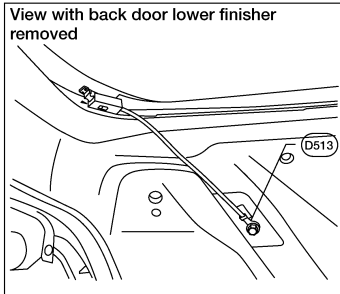


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# GROUND

< WIRING DIAGRAM >

## BACK DOOR HARNESS



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# HARNESS

< WIRING DIAGRAM >

## HARNESS

### Harness Layout

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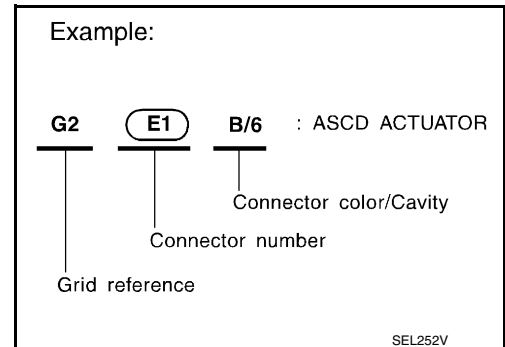
#### BOSEHOW TO READ HARNESS LAYOUT

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

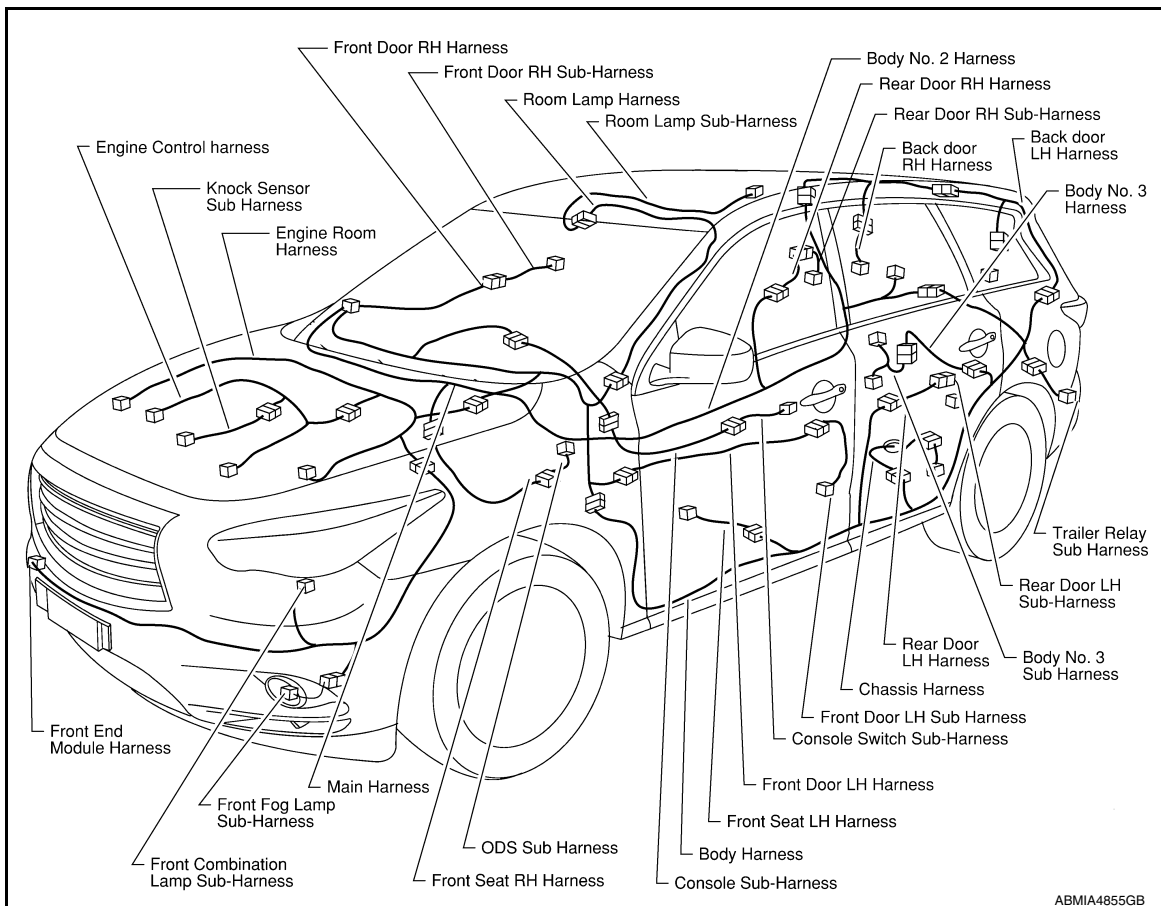
- Main Harness 1, Main Harness 2, Console Sub-harness and Console Switch Sub-harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Front End Module Harness, Front Fog Lamp Sub-harness and Front Combination Lamp Sub-harness
- Engine Control Harness and Knock Sensor Sub-harness
- Body Harness, Front Seat LH Harness, Body No.3 Harness, Body No.3 Sub-harness, Trailer Relay Sub Harness and Chassis Harness
- Body No. 2 Harness, Front Seat RH Harness and ODS Sub Harness
- Room Lamp Harness and Room Lamp Sub-harness
- Back Door LH Harness and Back Door 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.



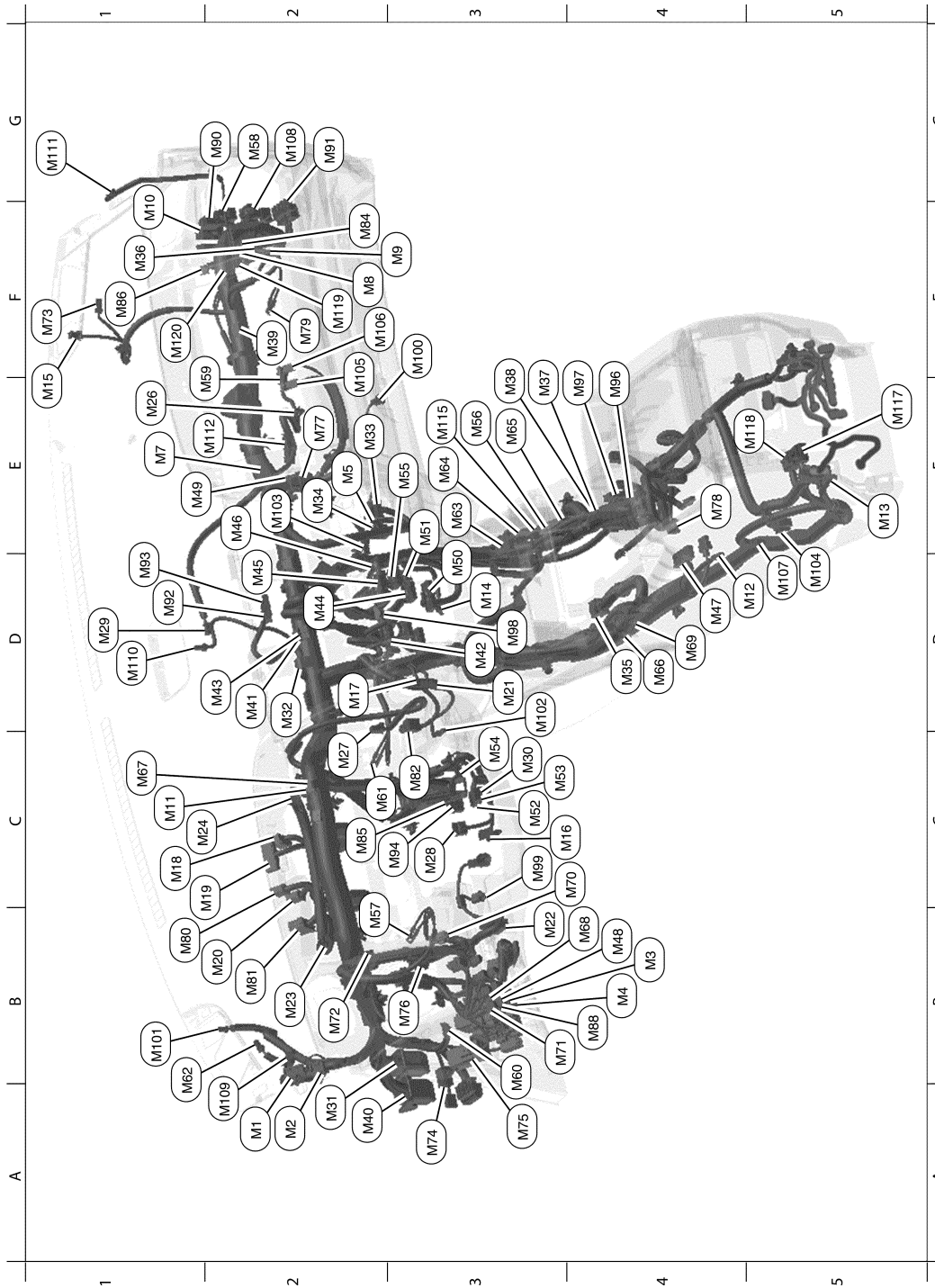
#### OUTLINE



# HARNESS

< WIRING DIAGRAM >

## MAIN HARNESS 1



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A2	M1	W/24	: To R1	E1	M59	—	: Glove box lamp
A2	M2	W/6	: To R2	B3	M60	BR/4	: Warning buzzer
B4	M3	W/8	: Fuse block (J/B)	C2	M61	—	: Body ground
B4	M4	W/16	: Fuse block (J/B)	B1	M62	BR/2	: Instrument panel tweeter LH
E2	M5	W/12	: CAN gateway	E3	M63	W/24	: To M215

# HARNESS

## < WIRING DIAGRAM >

E1	M7	W/3	: To M127	E3	M64	W/16	: To M216
F2	M8	W/1	: To B106	E3	M65	W/32	: To M217
F3	M9	W/16	: To B107	D4	M66	W/24	: To B6
F1	M10	BR/16	: To B111	C1	M67	W/4	: Joint connector-M04
C1	M11	W/4	: Joint connector-M03	B4	M68	BR/16	: Fuse block (J/B)
D5	M12	W/3	: Rear shut-off door motor	D4	M69	W/32	: To B41
E5	M13	W/3	: Mode door motor (Rear)	C4	M70	W/24	: Sonar control unit
D3	M14	GR/2	: Inside key antenna (Instrument center)	B3	M71	G/8	: VDC off switch
E1	M15	W/3	: Optical sensor	B2	M72	W/6	: Joint connector-M08
C4	M16	GR/6	: ADP steering switch	F1	M73	BR/2	: Instrument panel tweeter RH
D2	M17	W/8	: Push-button ignition switch	A3	M74	BR/12	: To B42
C1	M18	G/40	: BCM (Body control module)	A3	M75	W/3	: To E36
C2	M19	B/40	: BCM (Body control module)	B3	M76	W/6	: Electric brake (Pre-wiring)
B2	M20	GR/24	: BCM (Body control module)	E2	M77	Y/4	: Front passenger air bag module (Service replacement)
D3	M21	W/3	: NATS antenna amp.	E4	M78	W/12	: CVT shift selector
B3	M22	W/16	: Data link connector	F2	M79	—	: Body ground
B2	M23	W/12	: Combination meter	B1	M80	B/24	: BCM (Body control module)
C1	M24	W/40	: Combination meter	B2	M81	W/15	: BCM (Body control module)
E1	M26	Y/2	: Front passenger air bag module	C3	M82	W/2	: Circuit breaker-2
C2	M27	W/12	: Meter control switch	F2	M84	W/32	: To B101
C3	M28	W/14	: Combination switch	C2	M85	W/6	: Tilt motor
D1	M29	W/4	: Dongle unit	F1	M86	B/4	: Remote keyless entry receiver
C3	M30	GR/8	: Combination switch (Spiral cable)	B4	M88	B/10	: A/C 120v outlet main switch
A2	M31	W/100	: To E152	G2	M90	L/4	: Heated steering relay
D2	M32	B/2	: Diode-3	G2	M91	W/32	: To D101
E2	M33	W/24	: Automatic drive positioner control unit	D1	M92	W/24	: Display unit (With NAVI)
E2	M34	W/6	: Automatic drive positioner control unit	D1	M93	W/24	: Display unit (Without NAVI)
D4	M35	Y/28	: Air bag diagnosis sensor unit	C3	M94	BR/6	: Telescopic motor
F1	M36	W/40	: To B136	E4	M96	W/40	: Around view monitor control unit
E3	M37	W/4	: Joint connector-M28	E4	M97	W/32	: Around view monitor control unit
E3	M38	W/4	: Joint connector-M29	D3	M98	W/16	: A/C and AV switch assembly
F2	M39	W/4	: Joint connector-M06	C3	M99	—	: Foot lamp LH
A2	M40	W/57	: To B69	F3	M100	—	: Foot lamp RH
D2	M41	W/4	: Joint connector-M18	B1	M101	B/2	: Sunload sensor
D3	M42	W/32	: AV control unit (With base audio system)	D3	M102	W/2	: In-vehicle sensor
D2	M43	W/4	: Joint connector-M17	E2	M103	W/2	: Intake sensor
D2	M44	W/20	: AV control unit (With base audio system)	D5	M104	W/4	: Rear blower motor resistor 1
D2	M45	W/24	: AV control unit (With base audio system)	F2	M105	Y/2	: Front passenger air bag module
E2	M46	W/16	: AV control unit (With base audio system)	F2	M106	O/2	: Front passenger air bag module
D4	M47	W/40	: TCU	D5	M107	W/2	: Rear blower motor 1
B4	M48	L/8	: Heated steering wheel switch	G2	M108	BR/6	: Rear blower motor relay
E1	M49	B/12	: Joint connector-M15	A2	M109	BR/2	: Front tweeter LH
D3	M50	W/40	: A/C auto amp.	D1	M110	BR/2	: Center speaker
E3	M51	W/12	: AV control unit (With base audio system)	G1	M111	BR/2	: Front tweeter RH
C3	M52	W/2	: Combination switch (Spiral cable)	E2	M112	W/6	: Front blower motor





# HARNESS

## < WIRING DIAGRAM >

B3	M121	W/4	: Headlamp aiming switch	B3	M185	W/10	: Automatic back door main switch
D3	M122	W/20	: AV control unit (With BOSE audio system - With NAVI and without surround sound system)	B4	M186	B/8	: Automatic back door switch
E3	M123	W/28	: AV control unit (With BOSE audio system - with NAVI and without surround sound system)	G1	M187	W/2	: Circuit breaker
C3	M124	W/32	: AV control unit (With BOSE audio system - With NAVI and without surround sound system)	C3	M188	W/24	: To M189
E2	M125	W/40	: AV control unit (With BOSE audio system - With NAVI and without surround sound system)	C3	M189	W/24	: To M188
C3	M126	B/8	: Twin switch (Warning systems switch)	B3	M190	W/12	: Accessory prewire LH
E1	M127	W/3	: To M7	E3	M191	W/12	: Accessory prewire RH
E2	M128	W/3	: Intake door motor	E3	M192	W/32	: AV control unit (With BOSE audio system without navi)
E2	M129	W/3	: Mode door motor (Front)	F3	M193	W/20	: AV control unit (With BOSE audio system without navi)
E2	M130	W/3	: Air mix door motor driver side	D3	M194	W/24	: AV control unit (With BOSE audio system without navi)
F2	M131	W/3	: Air mix door motor passenger side	E2	M195	W/16	: AV control unit (With BOSE audio system without navi)
F2	M132	W/3	: Air mix door motor (Rear)	E3	M196	W/12	: AV control unit (With BOSE audio system without navi)
D4	M134	GR/17	: TCU	E3	M197	W/12	: AV control unit (With BOSE audio system without navi)
D3	M136	GR/17	: AV control unit	Console sub harness			
F1	M139	—	: Body ground	E5	M201	W/16	: To M251
D2	M140	B/4	: AV control unit	F4	M202	W/40	: To M257
D2	M141	BR/4	: Display unit	D4	M203	W/10	: Climate controlled seat switch (Driver seat)
B2	M150	W/33	: Joint connector-M27	D4	M204	W/4	: CVT shift selector
F1	M157	W/16	: To B161	E4	M205	W/8	: Front auxillary input jacks
G2	M158	W/10	: To D102	F4	M206	BR/8	: Climate controlled seat switch (Passenger seat)
G2	M159	Y/4	: To D103	E4	M207	GR/3	: Front console power socket
D4	M160	B/6	: Yaw rate/side/decel G sensor	E4	M209	G/5	: USB interface
E3	M161	W/20	: AV control unit (With BOSE audio system - with NAVI and surround sound system)	D4	M210	GR/7	: To M115
F3	M162	W/28	: AV control unit (With BOSE audio system - with NAVI and surround sound system)	E4	M211	B/10	: Drive mode select switch
C3	M163	W/32	: AV control unit (With BOSE audio system - with NAVI and surround sound system)	E3	M214	W/16	: To M56
E2	M164	W/40	: AV control unit (With BOSE audio system - with NAVI and surround sound system)	D4	M215	W/24	: To M63
D3	M165	W/16	: AV control unit (With BOSE audio system - with surround sound system)	D4	M216	W/16	: To M64
A3	M167	W/10	: To D2	F3	M217	W/32	: To M65
B3	M168	W/40	: To D3	D4	M220	W/10	: Front heated seat switch LH
A3	M169	Y/4	: To D13	F4	M221	BR/8	: Front heated seat switch RH

# HARNES

## < WIRING DIAGRAM >

F1	M170	W/33	: Joint connector-M09	D3	M228	GR/3	: Front console power socket (For cigarette lighter)	A
D1	M171	W/4	: Joint connector-M10	E4	M230	GR/6	: Joint connector-M01	
D2	M172	W/4	: Joint connector-M11	Console switch sub harness				B
D2	M173	W/4	: Joint connector-M12	E5	M251	W/16	: To M201	
D2	M174	W/4	: Joint connector-M13	E5	M252	W/6	: 2nd row heated seat switch LH	
E2	M175	W/33	: Joint connector-M22	F5	M253	BR/6	: 2nd row heated seat switch RH	C
C1	M176	W/4	: Joint connector-M56	E5	M254	W/40	: Rear auxiliary input jacks	
C2	M177	W/4	: Joint connector-M57	E5	M255	GR/2	: Inside key antenna (Console)	D
E2	M178	W/4	: Joint connector-M58	F5	M256	W/4	: A/C 120V outlet	
D1	M179	W/4	: Joint connector-M59	F5	M257	W/24	: To M202	
G2	M180	BR/7	: Heated seat relay	E4	M258	W/12	: Rear air control	E
C2	M181	W/4	: Joint connector-M36	E5	M268	GR/3	: Rear console power socket	
A2	M183	W/4	: Joint connector-M44					F

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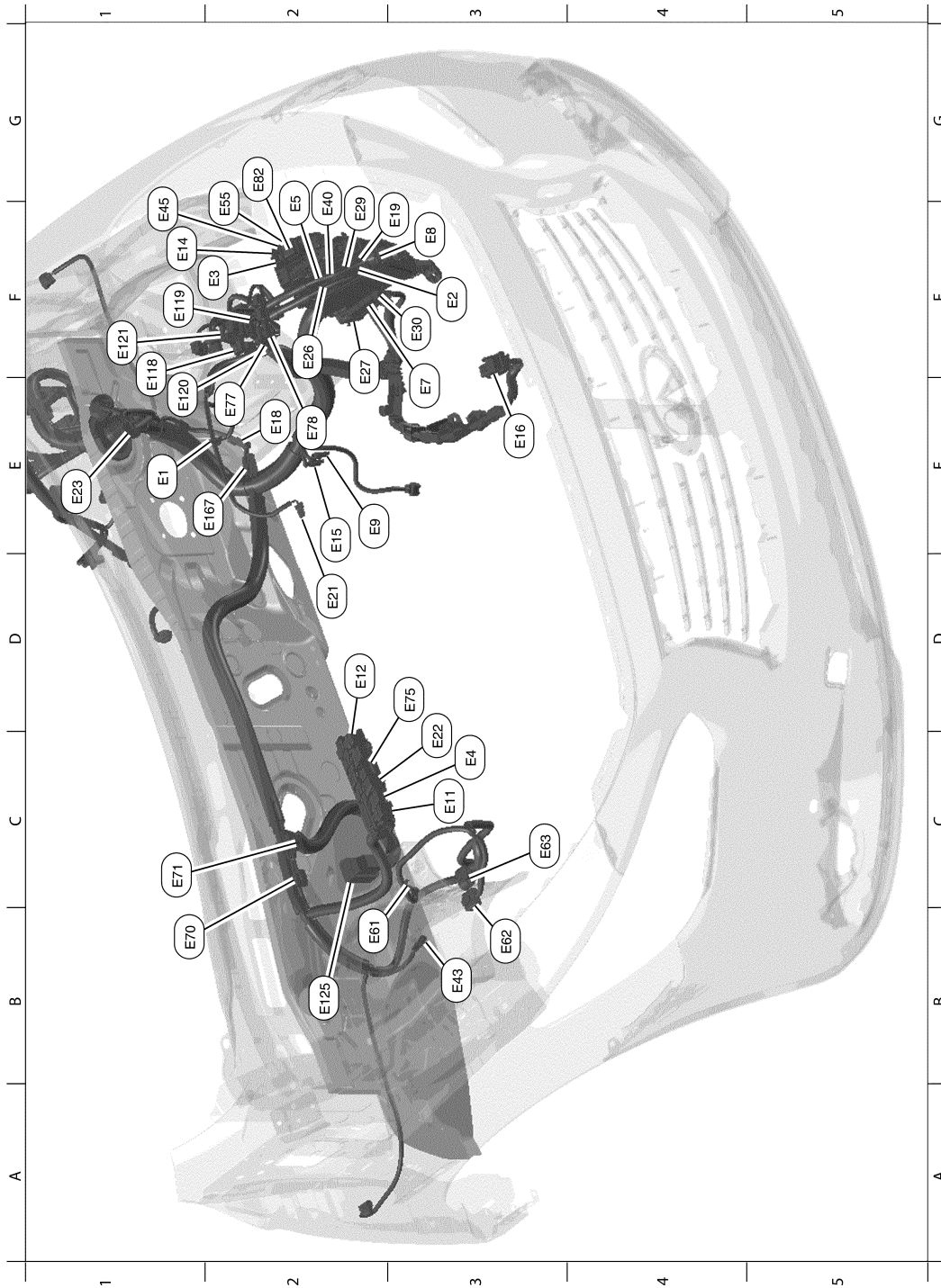
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# HARNESS

< WIRING DIAGRAM >

## ENGINE ROOM HARNESS



ABMIA4831ZZ

E1	E1	BR/3	: Intelligent Key warning buzzer	F3	E30	B/1	: Fusible link box (Battery)
F3	E2	W/16	: To F32	G2	E40	B/2	: To E201
F2	E3	B/2	: Anti theft diode	B3	E43	B/2	: Front wheel sensor RH
C3	E4	BR/6	: Daytime light relay	F1	E45	L/12	: Joint connector-E12
G2	E5	W/16	: To E207	G2	E55	W/4	: Joint connector-E10

# HARNESS

## < WIRING DIAGRAM >

E3	E7	GR/2	: Fusible link box (Battery)	B2	E61	—	: Body ground
F3	E8	W/3	: Anti theft horn relay	B3	E62	B/6	: Power steering control module
E2	E9	—	: Ground	C3	E63	B/2	: Power steering control module
C3	E11	L/5	: PTC relay-1	B1	E70	B/6	: Joint connector-E14
D2	E12	L/5	: PTC relay-2	C1	E71	B/6	: Joint connector-E15
F1	E14	B/12	: Joint connector-E05	D3	E75	L/4	: ICC brake hold relay
E2	E15	—	: Engine ground	E2	E77	L/4	: Trailer turn relay LH
E3	E16	GR/32	: ECM	E2	E78	L/4	: Trailer turn relay RH
E2	E18	B/2	: Front wheel sensor LH	G2	E82	BR/4	: Cooling fan relay
F3	E19	W/10	: To F33	F1	E118	B/2	: IPDM E/R (Intelligent power distribution module engine room)
D2	E21	GR/2	: Brake fluid level switch	F1	E119	W/32	: IPDM E/R (Intelligent power distribution module engine room)
C3	E22	L/4	: Accessory relay-2	E1	E120	W/4	: IPDM E/R (Intelligent power distribution module engine room)
E1	E23	GR/5	: Front wiper motor	F1	E121	W/12	: IPDM E/R (Intelligent power distribution module engine room)
F2	E26	W/24	: To E209	B2	E125	B/34	: ABS actuator and electric unit (Control unit)
F2	E27	BR/2	: Fusible link box (Battery)	E2	E167	B/3	: Vacuum sensor
F2	E29	Y/4	: To E210				

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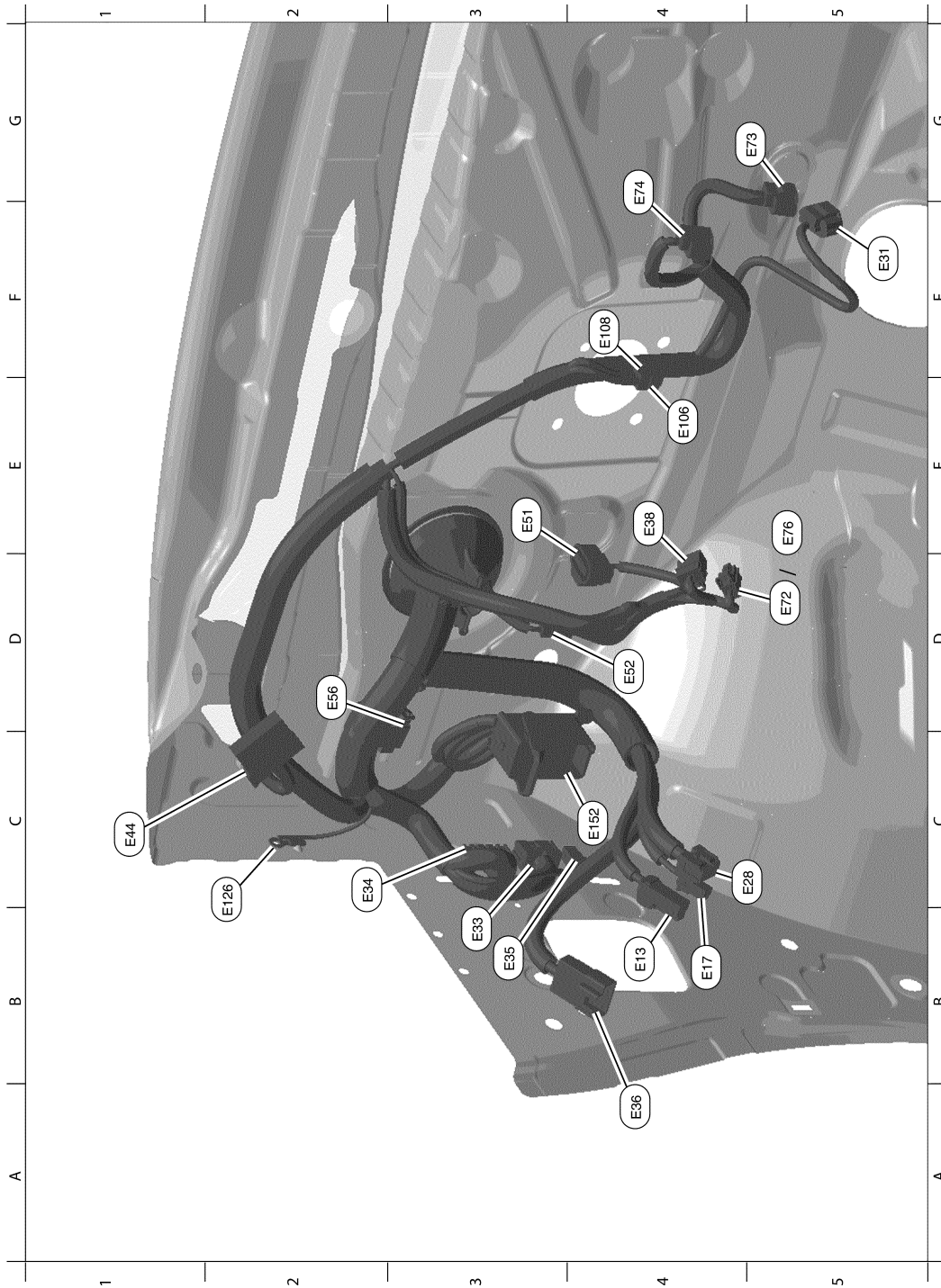
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# HARNESS

< WIRING DIAGRAM >

## ENGINE ROOM HARNESS (PASSENGER VIEW)



AAMIA0128ZZ

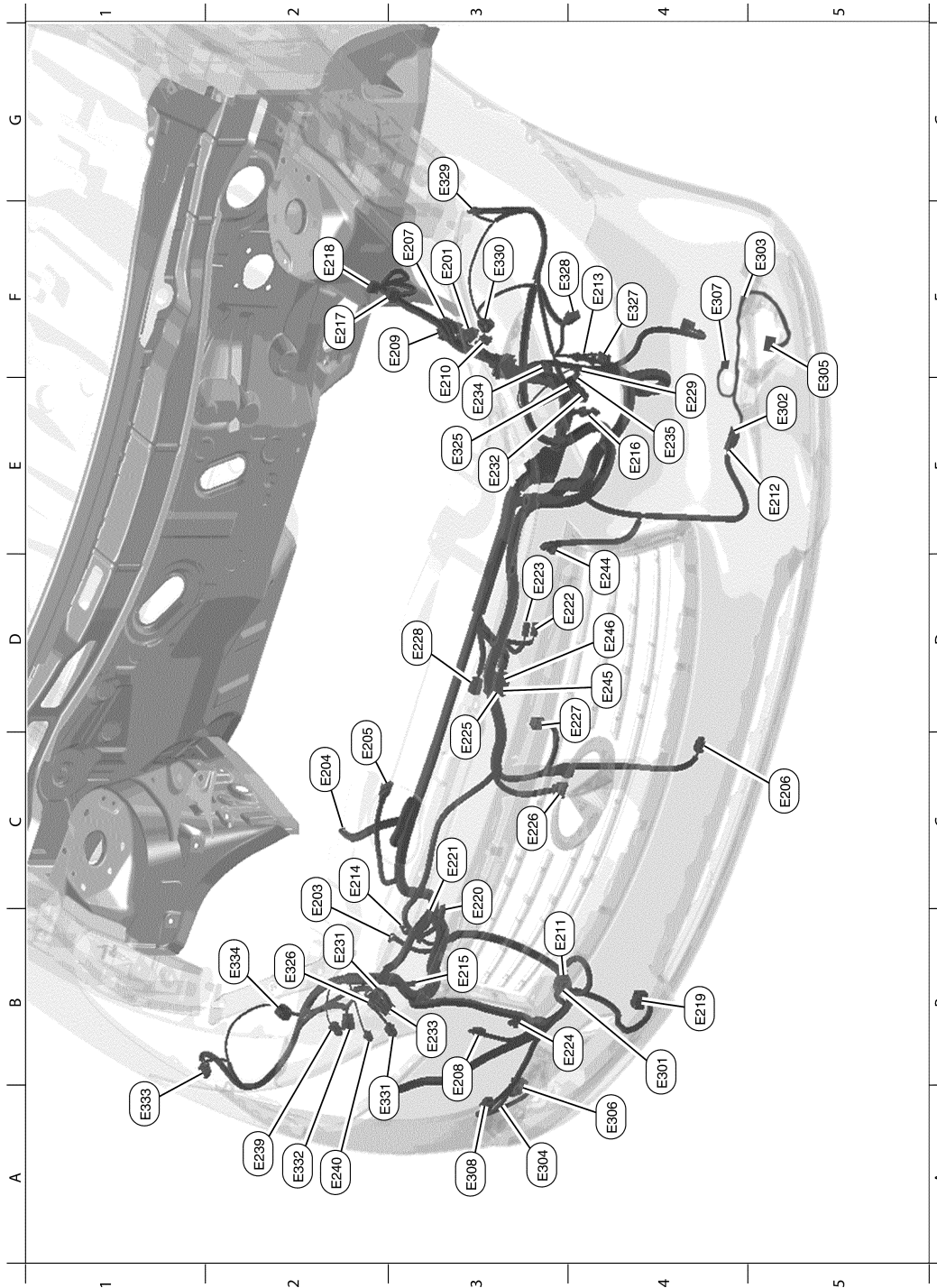
B4	E13	W/1	: Fuse block (J/B)	D4	E52	B/1	: Parking brake switch
B4	E17	W/1	: Fuse block (J/B)	D2	E56	BR/2	: VDC resistor
C5	E28	W/10	: Fuse block (J/B)	D5	E72	BR/2	: ICC brake switch
F5	E31	B/6	: Accelerator pedal position sensor (Without intelligent cruise control)	G5	E73	B/6	: Accelerator pedal position sensor (With intelligent cruise control)
B3	E33	W/12	: To B43	G4	E74	GR/6	: Accelerator pedal actuator

# HARNESS

## < WIRING DIAGRAM >

C2	E34	W/24	: To B40	E5	E76	BR/2	: Brake pedal position switch
B3	E35	GR/1	: To B48	E4	E106	W/4	: Joint connector-E06
A4	E36	W/3	: To M75	F4	E108	W/4	: Joint connector-E07
E4	E38	W/4	: Stop lamp switch	C2	E126	—	: Body ground
C1	E44	W/33	: Joint connector-E01	C4	E152	SMJ	: To M31
E3	E51	B/4	: Brake pedal stroke sensor				

## FRONT END MODULE HARNESS



PG

# HARNES

## < WIRING DIAGRAM >

F3	E201	B/2	: To E40	E3	E232	B/8	: To E325
C2	E203	—	: Body ground	B3	E233	GR/8	: To E326
C2	E204	—	: Generator	E3	E234	GR/2	: Front combination lamp LH
C2	E205	BR/3	: Hood switch	E4	E235	GR/2	: Front combination lamp LH
C5	E206	B/2	: Ambient sensor	A2	E239	GR/2	: Front combination lamp RH
F3	E207	W/16	: To E5	A2	E240	GR/2	: Front combination lamp RH
B3	E208	B/2	: Washer fluid level switch	D4	E244	B/3	: Refrigerant pressure sensor
F3	E209	W/24	: To E26	D4	E245	BR/2	: Cooling fan control module (cooling fan motor-1)
E3	E210	Y/4	: To E29	D4	E246	GR/2	: Cooling fan control module (cooling fan motor-2)
B3	E211	GR/8	: To E301	Front fog lamp sub harness			
E5	E212	GR/8	: To E302	B4	E301	GR/8	: To E211
F4	E213	—	: Body ground	E5	E302	GR/8	: To E212
C2	E214	—	: Body ground	F5	E303	GR/2	: Front fog lamp LH
B3	E215	—	: Body ground	A3	E304	GR/2	: Front fog lamp RH
E4	E216	—	: Body ground	F5	E305	B/2	: Front fog lamp LH
F2	E217	W/8	: IPDM E/R (intelligent power distribution module engine room)	A4	E306	B/2	: Front fog lamp RH
F2	E218	W/16	: IPDM E/R (intelligent power distribution module engine room)	F4	E307	B/3	: Front sonar sensor LH outer
B4	E219	B/8	: ICC sensor	A3	E308	B/3	: Front sonar sensor RH outer
C3	E220	B/1	: Horn (high)	Front combination lamp sub harness			
C3	E221	B/1	: Horn (high)	E3	E325	B/8	: To E232
D4	E222	B/1	: Horn (low)	B2	E326	GR/8	: To E233
D3	E223	B/1	: Horn (low)	F4	E327	B/2	: Front combination lamp LH
B4	E224	B/2	: Front and rear washer motor	F3	E328	GR/2	: Front combination lamp LH
C3	E225	GR/3	: Cooling fan control module	G3	E329	GR/2	: Front combination lamp LH
C3	E226	B/6	: Front camera	F3	E330	GR/3	: Front combination lamp LH (headlamp aiming motor)
D4	E227	B/3	: Exhaust gas/outside odor detecting sensor	A2	E331	B/2	: Front combination lamp RH
D3	E228	Y/2	: Crash zone sensor	A2	E332	GR/2	: Front combination lamp RH
E4	E229	—	: Body ground	A1	E333	GR/2	: Front combination lamp RH
B2	E231	B/1	: Anti theft horn	B2	E334	GR/3	: Front combination lamp RH (headlamp aiming motor)



# HARNESS

< WIRING DIAGRAM >

## ENGINE CONTROL HARNESS



ABMIA4832ZZ

B5	F3	B/2	: A/C compressor	F3	F39	—	: Fusible link box (Battery)
C5	F5	GR/4	: Air fuel ratio (A/F) sensor 1 (Bank 2)	C3	F41	GR/2	: Fuel injector No. 3
C5	F6	—	: Generator	D3	F42	GR/2	: Fuel injector No. 5
C4	F7	B/3	: Generator	F4	F43	GR/22	: CVT unit
C4	F8	GR/3	: Ignition coil No. 2 (With power transistor)	D2	F44	B/3	: Camshaft position sensor (PHASE) (Bank 1)

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# HARNES

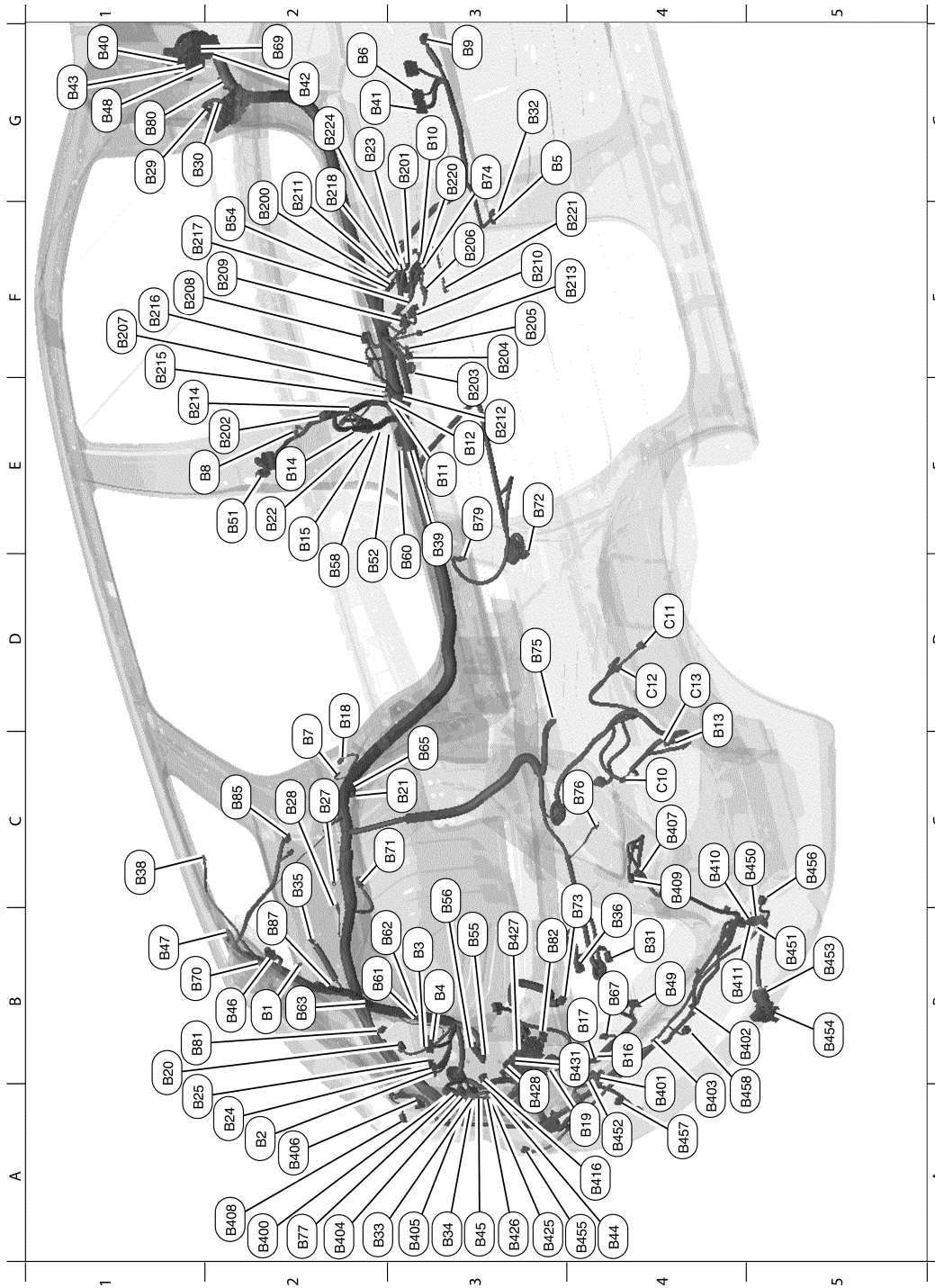
## < WIRING DIAGRAM >

C4	F9	GR/3	: Ignition coil No. 4 (With power transistor)	D4	F45	B/3	: Camshaft position sensor (PHASE) (Bank 2)
D4	F10	GR/3	: Ignition coil No. 6 (With power transistor)	C2	F47	GR/3	: Ignition coil No. 1 (With power transistor)
D4	F11	B/3	: Crankshaft position sensor (POS)	C2	F48	GR/3	: Ignition coil No. 3 (With power transistor)
E4	F12	B/4	: Heated oxygen sensor 2 (Bank 2)	D2	F49	GR/3	: Ignition coil No. 5 (With power transistor)
B2	F13	B/4	: Heated oxygen sensor 2 (Bank 1)	E2	F50	B/6	: Electric throttle control actuator
E5	F14	B/10	: Joint connector-F01	E5	F51	B/48	: ECM
D4	F16	GR/2	: Evap canister purge volume control solenoid valve	F4	F52	BR/48	: ECM
F3	F17	B/1	: IPDM E/R (Intelligent power distribution module engine room)	E5	F53	B/10	: Joint connector-F03
C3	F18	GR/2	: Fuel injector No. 2	B3	F54	B/3	: Engine oil pressure sensor
G3	F19	W/10	: IPDM E/R (Intelligent power distribution module engine room)	F5	F55	B/10	: Joint connector-F04
C3	F20	GR/2	: Fuel injector No. 4	G4	F56	W/4	: Joint connector-F07
D3	F21	W/2	: Condenser-1	G4	F57	W/4	: Joint connector-F08
D3	F22	GR/2	: Fuel injector No. 6	C2	F58	GR/6	: Joint connector-F09
G2	F24	W/12	: IPDM E/R (Intelligent power distribution module engine room)	B4	F59	—	: Ground
E5	F25	B/48	: TCM (Transmission control module)	B3	F60	—	: Ground
D3	F26	B/4	: To F201	E3	F61	GR/2	: Engine coolant temperature sensor
F4	F27	—	: Starter motor	B2	F62	GR/2	: Intake valve timing control solenoid valve (Bank 1)
E4	F28	GR/1	: Starter motor	B3	F63	GR/2	: Intake valve timing control solenoid valve (Bank 2)
E5	F29	B/10	: Transmission range switch	B3	F64	BR/2	: Electronic controlled engine mount control solenoid valve
B3	F30	GR/2	: Fuel injector No. 1	D2	F65	BR/4	: Air fuel ratio (A/F) sensor 1 (Bank 1)
E3	F31	B/5	: Mass air flow sensor	C3	F66	B/2	: VIAS control solenoid valve 1
G3	F32	W/16	: To E2	C3	F67	B/2	: VIAS control solenoid valve 2
F4	F33	W/10	: To E19	C2	F68	GR/2	: Engine oil temperature sensor
F5	F34	GR/4	: Battery current sensor	Knock sensor sub harness			
F4	F35	B/3	: Primary speed sensor	D3	F201	L/4	: To F26
F4	F36	B/3	: Output speed sensor	D3	F202	GR/2	: Knock sensor (Bank 1)
E5	F37	B/3	: Input speed sensor	C3	F204	GR/2	: Knock sensor (Bank 2)
F5	F38	B/10	: Joint connector-f02				

# HARNESS

< WIRING DIAGRAM >

## BODY HARNESS



ABMIA4833ZZ

B2	B1	BR/2	: Rear side speaker LH	C4	B76	GR/2	: Inside key antenna (Luggage room)
A2	B2	W/16	: Satellite radio tuner	A2	B77	W/32	: To B400
B3	B3	W/32	: Bluetooth® control unit	E3	B79	W/3	: 2nd row seat heater LH
B3	B4	W/8	: Bluetooth® control unit	G1	B80	W/4	: Joint connector-B17
G3	B5	W/16	: Front seat LH (Pre-wiring)	B1	B81	GR/3	: Rear cargo power socket

# HARNESS

## < WIRING DIAGRAM >

G2	B6	W/24	: To M66	B3	B82	B/8	: Inverter unit
C2	B7	—	: Body ground	C2	B85	W/10	: Sunshade motor assembly
E1	B8	W/4	: Front door switch LH	B2	B87	W/4	: Joint connector-B16
G3	B9	Y/15	: Air bag diagnosis sensor unit	Front seat LH harness			
G3	B10	Y/2	: Front LH side air bag module	G2	B200	BR/12	: To B54
E3	B11	W/4	: Joint connector-B09	G3	B201	W/24	: To B23
E3	B12	W/4	: Joint connector-B10	E2	B202	W/32	: Headrest display unit (Driver seat)
D4	B13	B/14	: To C13	E3	B203	B/16	: Climate controlled seat control unit (Driver seat)
E2	B14	Y/2	: Front LH seat belt pre-tensioner	F3	B204	B/8	: Climate controlled seat control unit (Driver seat)
E2	B15	Y/2	: Front side air bag satellite sensor LH	F3	B205	B/6	: Climate controlled seat control unit (Driver seat)
B4	B16	W/4	: Joint connector-B11	F3	B206	W/4	: Seat cushion thermal electric device (Driver seat)
B4	B17	W/4	: Joint connector-B12	F1	B207	W/6	: Lifting motor LH (Rear)
D2	B18	W/4	: Rear door switch LH	F1	B208	W/10	: Power seat switch LH
A4	B19	—	: Body ground	F2	B209	W/32	: Driver seat control unit
B1	B20	W/4	: Fuel lid door lock actuator	F3	B210	W/12	: Driver seat control unit
C3	B21	W/4	: Joint connector-B20	G2	B211	GR/5	: Sliding motor LH
E2	B22	O/2	: Front LH seat belt pre-tensioner	E3	B212	W/4	: Seat back thermal electric device (Driver seat)
G2	B23	W/24	: To B201	F4	B213	W/5	: Climate controlled seat blower motor (Driver seat)
A2	B24	W/32	: Video distributor	E1	B214	BR/4	: Lumbar support switch
A1	B25	W/24	: Video distributor	F1	B215	B/2	: Lumbar support motor
C2	B27	—	: Body ground	F1	B216	W/3	: Front seat heater (Driver seat)
C2	B28	—	: Body ground	F1	B217	W/6	: Reclining motor LH
G1	B29	W/6	: Fuse block (J/B)	G2	B218	W/6	: Lifting motor LH (Front)
G1	B30	W/8	: Fuse block (J/B)	G3	B220	W/12	: To B74
B4	B31	B/2	: Evap canister vent control valve	F4	B221	W/4	: Seat belt buckle switch (Driver seat)
G3	B32	W/32	: To B124	G2	B224	P/20	: Joint connector-B22
A2	B33	B/2	: To B404	Body no.3 harness			
A3	B34	W/8	: To B405	A2	B400	W/32	: To B77
C2	B35	W/4	: Sonar buzzer	A4	B401	B/12	: To B452
B4	B36	GR/3	: Evap control system pressure sensor	B4	B402	BR/2	: Back door warning chime
C1	B38	Y/2	: LH side curtain air bag module	A4	B403	GR/2	: Outside key antenna (Rear bumper)
E3	B39	W/4	: Joint connector-B05	A2	B404	B/2	: To B33
G1	B40	W/24	: To E34	A3	B405	W/8	: To B34
G2	B41	W/32	: To M69	A2	B406	GR/3	: Rear combination lamp LH
G2	B42	BR/12	: To M74	C4	B407	GR/3	: Rear combination lamp RH
G1	B43	W/12	: To E33	A2	B408	GR/2	: Rear combination lamp LH
A4	B44	B/2	: To B425	C4	B409	GR/2	: Rear combination lamp RH
A3	B45	W/16	: To B426	C4	B410	GR/6	: To B450
B2	B46	W/24	: To D501	B4	B411	B/2	: To B451
B1	B47	W/8	: To D502	A4	B416	B/6	: Side radar LH
G1	B48	W/1	: To E35	Trailer relay sub harness			

# HARNESS

## < WIRING DIAGRAM >

B4	B49	W/16	: To B140	A3	B425	B/2	: To B44	A
E2	B51	W/12	: To D201	A3	B426	W/16	: To B45	B
D2	B52	W/2	: Condenser-2	B3	B427	L/4	: Trailer tow relay 1	B
F2	B54	BR/12	: To B200	A3	B428	BR/6	: Trailer tow relay 2	B
B3	B55	B/24	: Automatic back door control module	B4	B431	L/4	: Trailer back-up relay	C
C3	B56	GR/14	: Automatic back door control module	Body no.3 sub harness				C
D2	B58	W/20	: Pre-crash seat belt control unit (Driver side)	C5	B450	GR/6	: To B410	D
D3	B60	W/4	: Joint connector-B06	B5	B451	B/2	: To B411	D
B2	B61	W/4	: Joint connector-B18	A4	B452	B/12	: To B401	E
B2	B62	W/4	: Joint connector-B19	B5	B453	B/7	: Trailer	E
B2	B63	W/33	: Joint connector-B01	B5	B454	B/7	: Trailer receptacle	F
C3	B65	W/4	: Joint connector-B07	A4	B455	B/3	: Rear sonar sensor LH outer	F
B4	B67	W/16	: Awd control unit	C5	B456	B/3	: Rear sonar sensor RH outer	F
G2	B69	W/99	: To M40	A4	B457	B/3	: Rear sonar sensor LH inner	G
B1	B70	B/10	: Spindle unit LH	A5	B458	B/3	: Rear sonar sensor RH inner	G
C3	B71	Y/2	: Rear side air bag satellite sensor LH	Chassis harness				H
E3	B72	GR/6	: Fuel level sensor and fuel pump	C4	C10	B/2	: Rear wheel sensor LH	H
C4	B73	GR/6	: Subwoofer	D4	C11	GR/2	: Rear wheel sensor RH	I
G3	B74	W/12	: To B220	D4	C12	GR/2	: AWD solenoid	I
D3	B75	W/16	: To B145	D4	C13	B/14	: To B13	J

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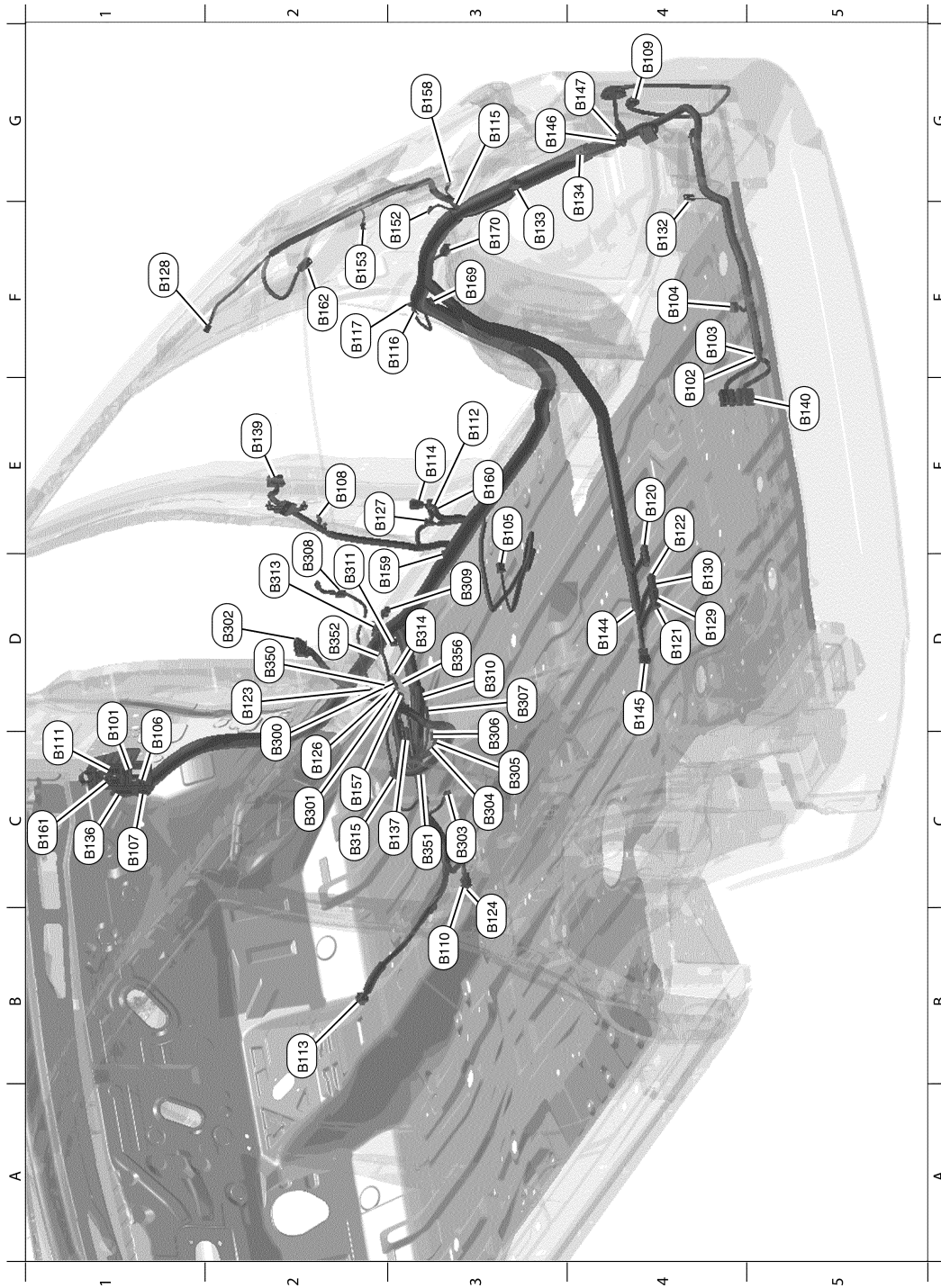
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# HARNESS

< WIRING DIAGRAM >

BODY NO. 2 HARNESS



ABMIA4834ZZ

D1	B101	W/32	: To M84	D4	B145	W/16	: To B75
E4	B102	W/4	: Joint connector-B14	G3	B146	W/4	: Joint connector-B12
F4	B103	W/4	: Joint connector-B15	G4	B147	W/4	: Joint connector-B13
F4	B104	W/16	: ADAS control unit	F3	B152	—	: Body ground
E3	B105	W/6	: 2nd row seat heater RH	F2	B153	BR/2	: Rear side speaker RH

# HARNES

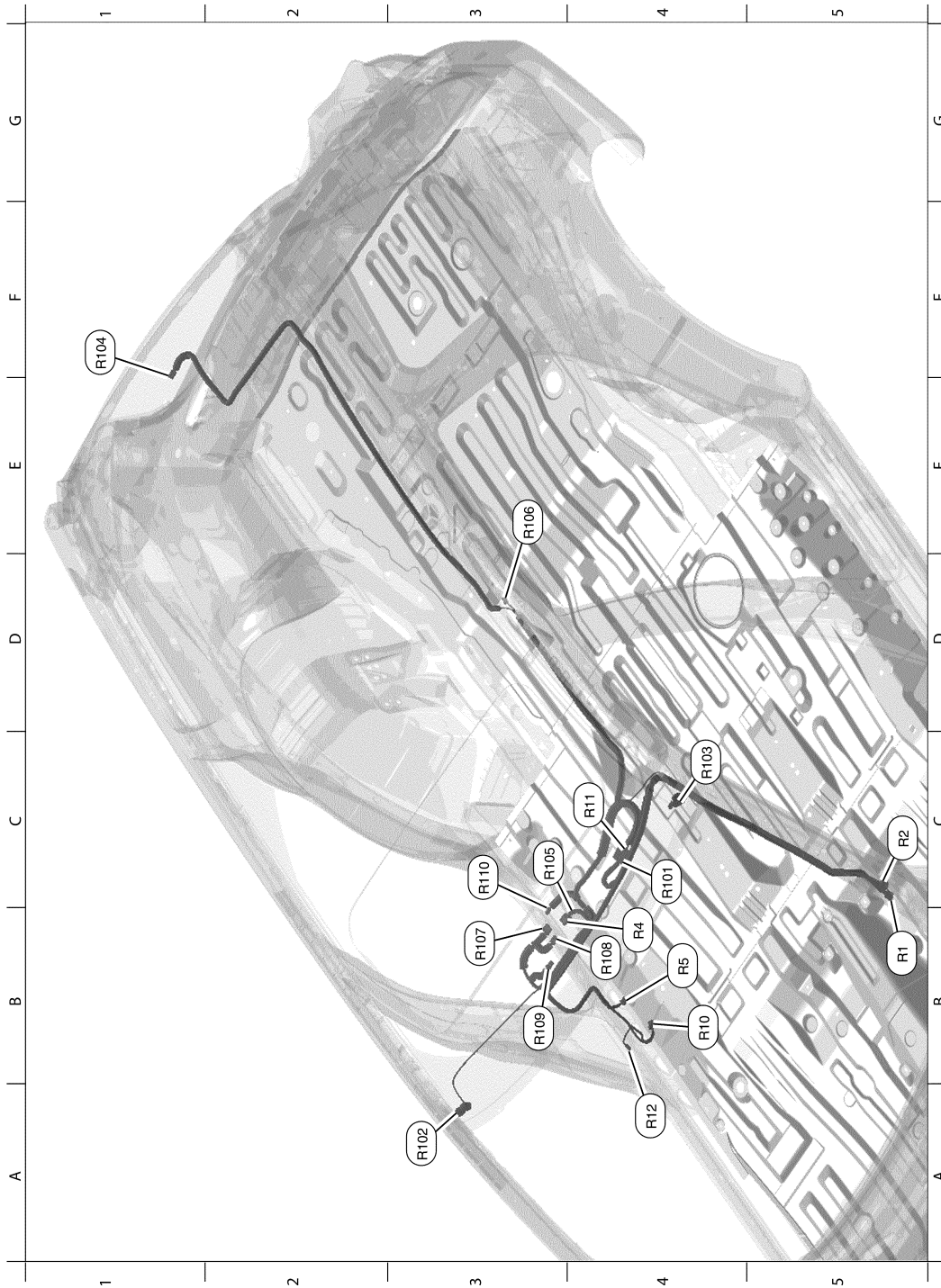
## < WIRING DIAGRAM >

D1	B106	GR/1	: To M8	C2	B157	W/12	: To B300	A	
C1	B107	W/24	: To M9	G3	B158	—	: Body ground		
E2	B108	W/4	: Front door switch RH	D2	B159	W/4	: Joint connector-B21		
G4	B109	B/6	: Side radar RH	E3	B160	W/20	: Pre-crash seat belt control unit (Passenger side)	B	
B3	B110	W/24	: Front seat RH (Pre-wiring)	C1	B161	W/16	: To M157		
C1	B111	BR/16	: To M10	F2	B162	B/10	: Spindle unit RH	C	
E3	B112	O/2	: Front RH seat belt pre-tensioner	F3	B169	W/4	: Joint connector-B04		
B2	B113	Y/14	: Air bag diagnosis sensor unit	F3	B170	Y/2	: Rear side air bag satellite sensor RH		
E3	B114	Y/2	: Front side air bag satellite sensor RH	Front seat RH harness					D
G3	B115	W/33	: Joint connector-B08	C2	B300	W/12	: To B157		
F3	B116	W/4	: Rear door switch RH	C2	B301	W/24	: To B137	E	
F2	B117	—	: Body ground	D2	B302	—	: Headrest display unit (Passenger seat)		
E4	B120	W/40	: BOSE speaker amp. (With surround sound system)	C3	B303	W/4	: Seat belt buckle switch (Passenger seat)	F	
D4	B121	BR/14	: BOSE speaker amp. (With surround sound system)	C3	B304	B/6	: Climate controlled seat control unit (Passenger seat)	G	
E4	B122	BR/23	: BOSE speaker amp. (With surround sound system)	C3	B305	B/8	: Climate controlled seat control unit (Passenger seat)	H	
D2	B123	W/4	: To B350	D3	B306	B/16	: Climate controlled seat control unit (Passenger seat)	I	
B3	B124	W/32	: To B32	D3	B307	W/5	: Climate controlled seat blower moter (Passenger seat)	J	
C2	B126	Y/2	: Front RH side air bag module	E2	B308	W/4	: Seat cushion thermal electric device (Passenger seat)	K	
E2	B127	Y/2	: Front RH seat belt pre-tensioner	D3	B309	W/4	: Seat back thermal electric device (Passenger seat)	L	
F1	B128	Y/2	: RH side curtain air bag module	D3	B310	W/6	: Lifting motor RH (Rear)		
D4	B129	BR/14	: BOSE speaker amp. (Without surround sound system)	D2	B311	W/6	: Reclining motor RH		
D4	B130	BR/23	: BOSE speaker amp. (Without surround sound system)	D2	B313	W/10	: Power seat switch RH		
F4	B132	—	: Body ground	D3	B314	W/5	: Sliding motor RH		
F3	B133	W/4	: Rear blower motor resistor 2	C2	B315	W/3	: Front seat heater (Passenger seat)	PG	
G4	B134	W/2	: Rear blower motor 2	ODS sub harness					
C1	B136	W/40	: To M36	D2	B350	W/4	: To B123		
C3	B137	W/24	: To B301	C3	B351	B/3	: Occupant classification system sensor (FL)	N	
E2	B139	W/12	: To D301	D2	B352	P/3	: Occupant classification system sensor (FR)	O	
E5	B140	W/16	: To B49	D3	B356	P/20	: Occupant classification system control unit	P	
D4	B144	W/4	: Joint connector-B11						

# HARNESS

< WIRING DIAGRAM >

## ROOM LAMP HARNESS



AAMIA0130ZZ

B5	R1	W/24	: To M1	A3	R102	W/2	: Vanity lamp RH
C5	R2	W/6	: To M2	C4	R103	W/2	: Vanity lamp LH
B4	R4	GR/10	: Moonroof motor assembly	F1	R104	W/3	: Cargo lamp
B4	R5	W/8	: Lane camera unit	C3	R105	W/8	: Telematics switch
B4	R10	B/10	: Auto anti-dazzling inside mirror	E3	R106	W/4	: Personal lamps 2nd row

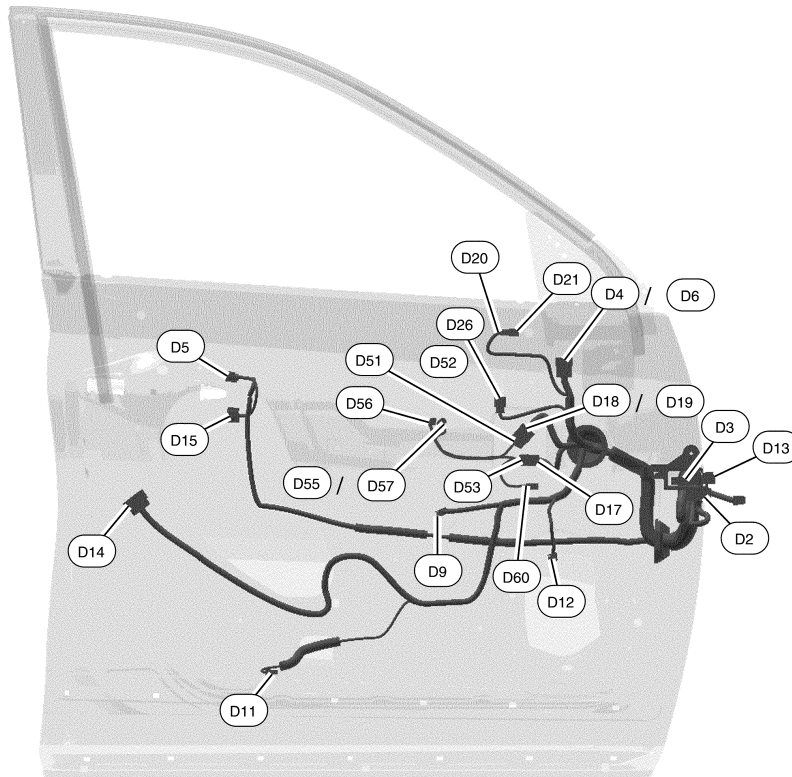


# HARNESS

## < WIRING DIAGRAM >

C4	R11	W/24	: To R101	B3	R107	GR/8	: Front room/map lamp assembly
A4	R12	B/3	: Rain sensor	B4	R108	W/8	: Moonroof switch
Room lamp sub harness				B3	R109	W/4	: Microphone
C4	R101	W/24	: To R11	C3	R110	W/4	: Sunshade switch

## FRONT DOOR LH HARNESS



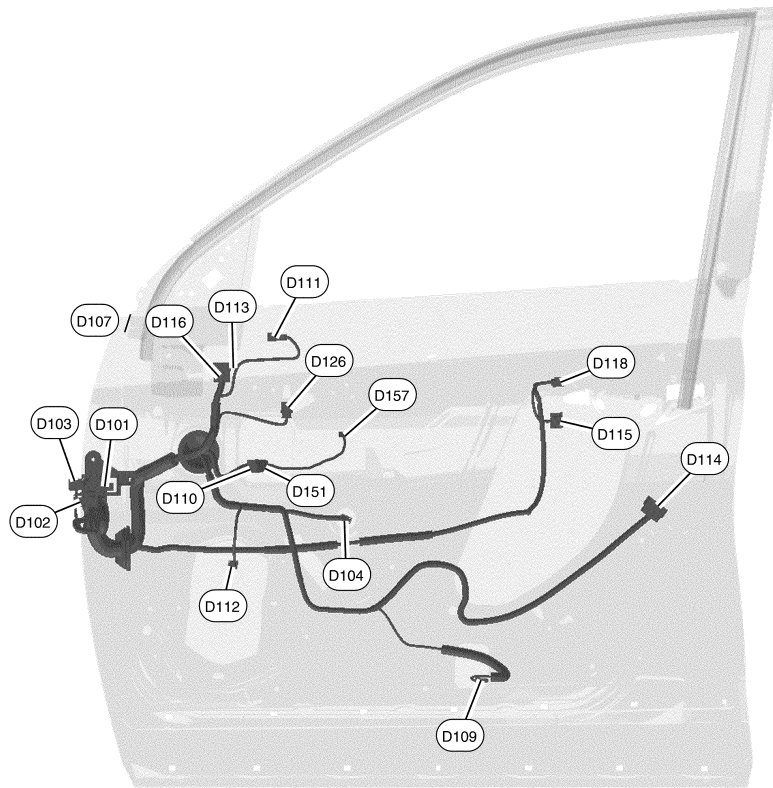
ABMIA4835ZZ

D2	W/16	: To M167	D19	W/24	: To D52
D3	W/40	: To M168	D20	W/24	: Door mirror LH (Side camera)
D4	W/12	: Door mirror LH (Without around view monitor)	D21	W/4	: Blind spot warning/blind spot intervention indicator LH
D5	GR/2	: Outside key antenna (Driver side)	D26	Y/2	: Front door satellite sensor LH
D6	W/24	: Door mirror LH (With around view monitor)	Front door LH sub harness		
D9	W/6	: Front power window motor LH	D51	W/16	: To D18
D11	W/2	: Front step lamp LH	D52	W/24	: To D19
D12	W/2	: Front door speaker LH	D53	W/8	: To D17
D13	Y/4	: To M169	D55	W/12	: Main power window and door lock/unlock switch (Power mirror remote control switch) (Without automatic drive positioner)
D14	GR/6	: Front door lock assembly LH	D56	W/16	: Main power window and door lock/unlock switch
D15	W/6	: Front outside handle assembly LH	D57	W/12	: Main power window and door lock/unlock switch (Power mirror remote control switch) (With automatic drive positioner)
D17	W/8	: To D53	D60	W/16	: Seat memory switch
D18	W/16	: To D51			

# HARNESS

< WIRING DIAGRAM >

## FRONT DOOR RH HARNESS



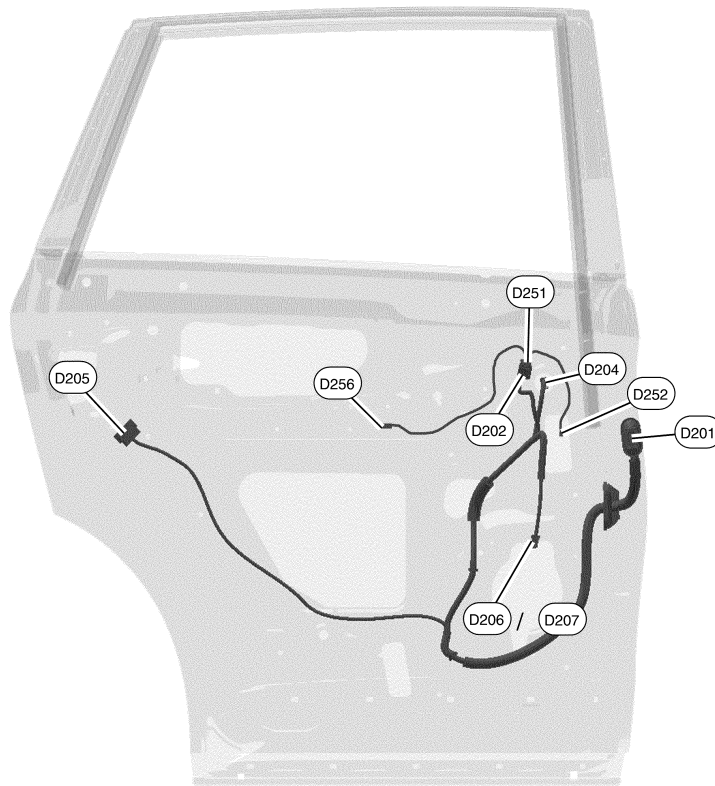
ABMIA4852ZZ

D101	W/32	: To M91	D113	W/24	: Door mirror RH (Side camera)
D102	W/10	: To M158	D114	GR/6	: Front door lock actuator RH
D103	Y/4	: To M159	D115	W/6	: Front outside handle assembly RH
D104	W/6	: Front power window motor RH	D116	W/24	: Door mirror RH (With around view monitor)
D107	W/12	: Door mirror RH (Without around view monitor)	D118	GR/2	: Outside key antenna (Passenger side)
D109	W/2	: Front step lamp RH	D126	Y/2	: Front door satellite sensor RH
D110	W/10	: To D151	Front door RH sub harness		
D111	W/4	: Blind spot warning/blind spot intervention indicator RH	D151	W/10	: To D110
D112	W/2	: Front door speaker RH	D157	W/16	: Power window and door lock/unlock switch RH

# HARNESS

< WIRING DIAGRAM >

## REAR DOOR LH HARNESS



AAMIA0133ZZ

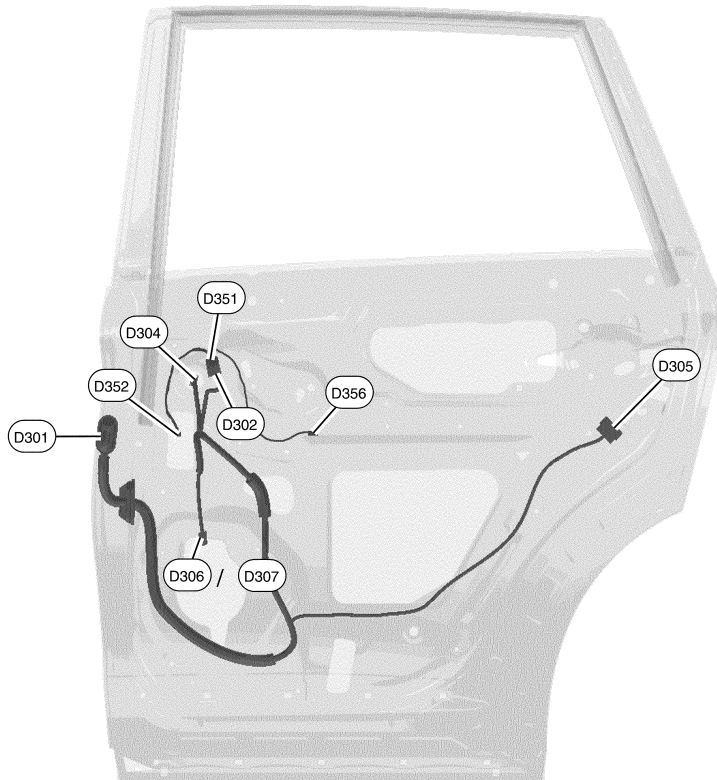
D201	W/12	: To B51	D207	BR/2	: Rear door speaker LH (With BOSE audio system)
D202	W/12	: To D251	Rear door LH sub harness		
D204	W/6	: Rear power window motor LH	D251	W/12	: To D202
D205	GR/6	: Rear door lock actuator LH	D252	BR/2	: Rear door tweeter LH
D206	W/2	: Rear door speaker LH (With base audio system)	D256	W/16	: Rear power window switch LH

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# HARNESS

< WIRING DIAGRAM >

## REAR DOOR RH HARNESS



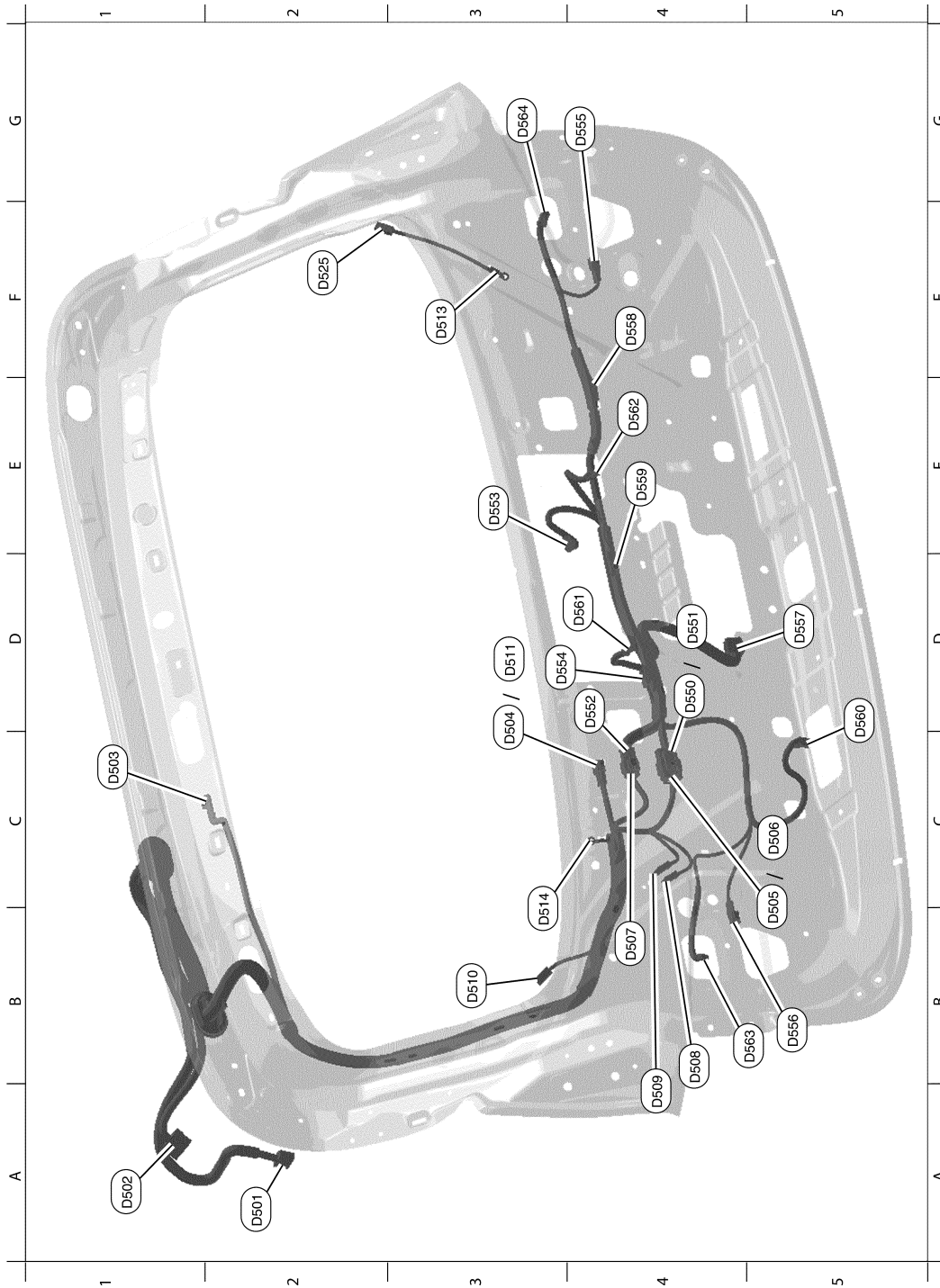
AAMIA0134ZZ

D301	W/12	: To B139	D307	BR/2	: Rear door speaker RH (With BOSE audio system)
D302	W/12	: To D351	Rear door RH sub harness		
D304	W/6	: Rear power window motor RH	D351	W/12	: To D302
D305	GR/6	: Rear door lock actuator RH	D352	BR/2	: Rear door tweeter RH
D306	W/2	: Rear door speaker RH (With base audio system)	D356	W/16	: Rear power window switch RH

# HARNESS

< WIRING DIAGRAM >

BACK DOOR



AAMIA0135ZZ

A2	D501	W/24	: To B46	D4	D550	W/6	: To D505
A1	D502	GR/8	: To B47	D4	D551	W/6	: To D506
C1	D503	BR/2	: High-mounted stop lamp	D4	D552	W/16	: To D507
D3	D504	W/4	: Rear view camera (Without NAVI)	E3	D553	W/3	: Rear wiper motor
C5	D505	W/6	: To D550	D3	D554	W/4	: Joint connector-D01

# HARNESS

## < WIRING DIAGRAM >

C5	D506	W/6	: To D551	G4	D555	GR/2	: Touch sensor RH
B4	D507	W/16	: To D552	B5	D556	W/2	: Touch sensor LH
B4	D508	B/1	: Rear window defogger condenser	D5	D557	W/8	: Back door lock assembly
A4	D509	B/1	: Rear window defogger condenser	F4	D558	B/2	: Diode-2
B3	D510	B/1	: Rear window defogger	E4	D559	W/4	: Back door opener switch
D3	D511	W/8	: Rear view camera (With NAVI)	D5	D560	B/8	: Automatic back door close switch
F3	D513	—	: Body ground	D4	D561	BR/2	: License plate lamp LH
C3	D514	—	: Body ground	E4	D562	BR/2	: License plate lamp RH
F2	D525	B/1	: Rear window defogger	B5	D563	W/2	: Back-up lamp RH
Back door RH harness				G3	D564	W/2	: Back-up lamp LH

# ELECTRICAL UNITS LOCATION

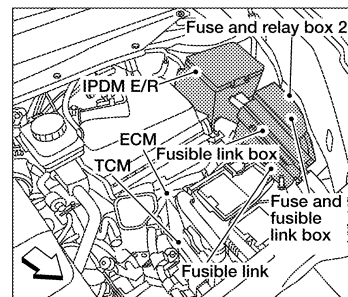
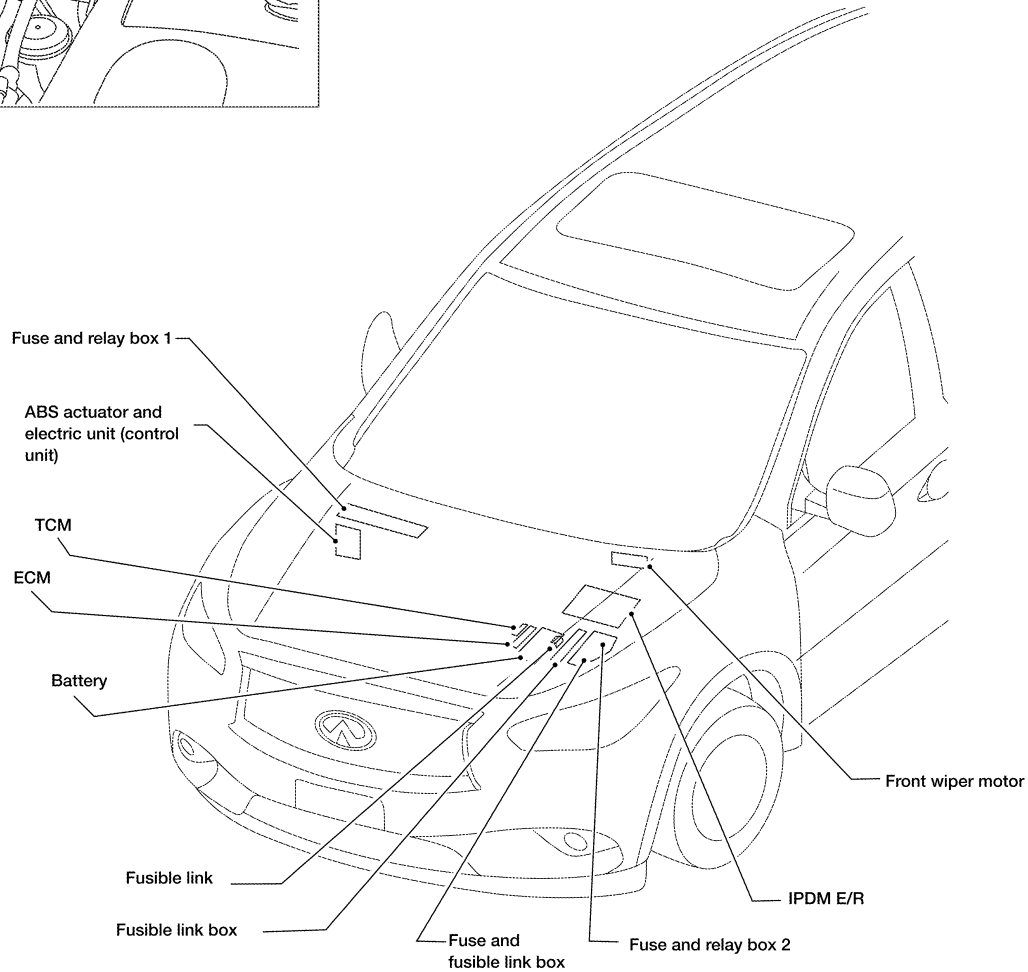
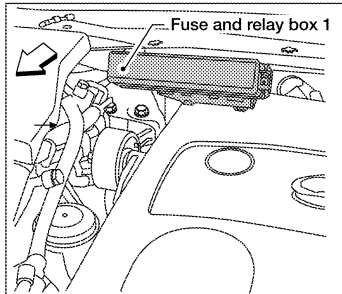
< WIRING DIAGRAM >

## ELECTRICAL UNITS LOCATION

### Electrical Units Location

INFOID:000000009131090

### ENGINE COMPARTMENT



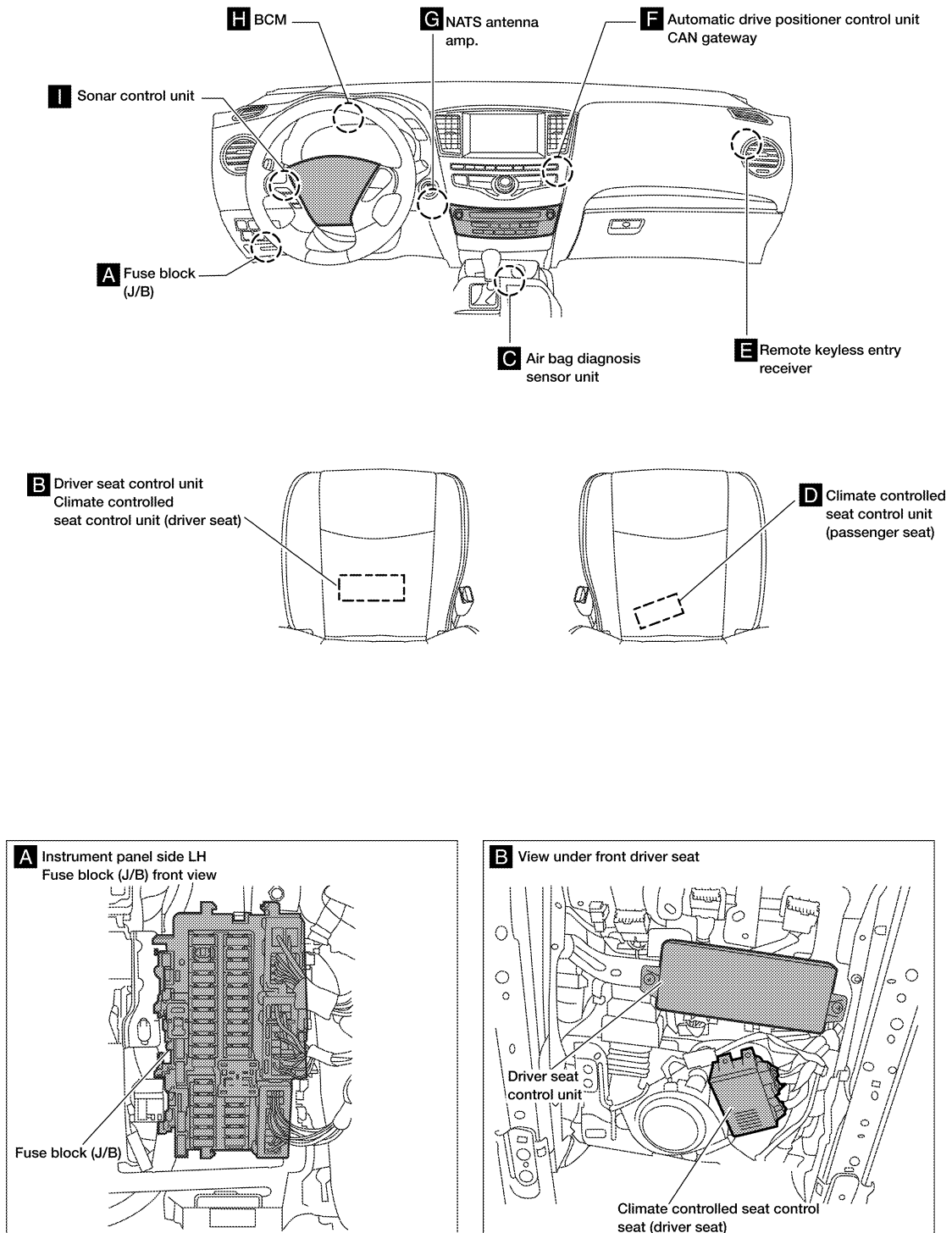
ABMIA4814GB

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# ELECTRICAL UNITS LOCATION

< WIRING DIAGRAM >

## PASSENGER COMPARTMENT

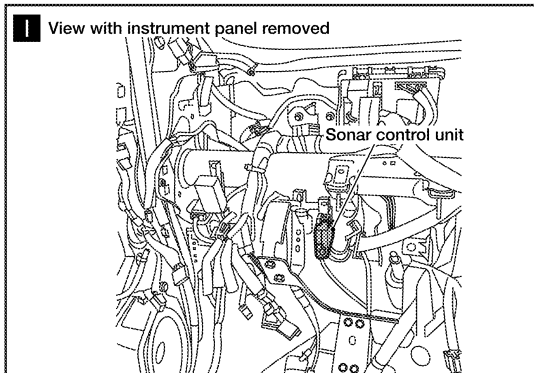
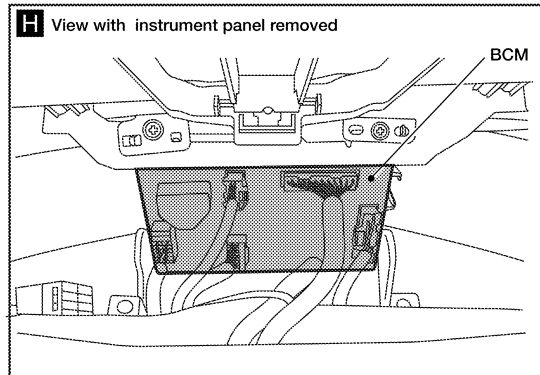
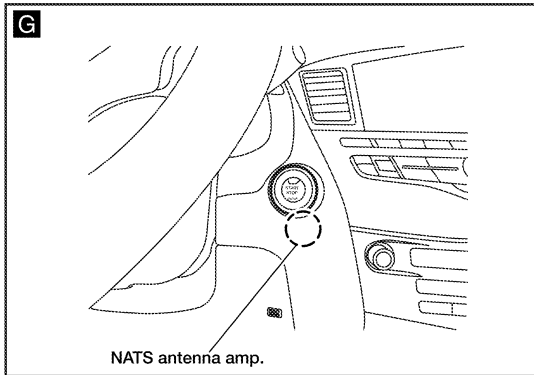
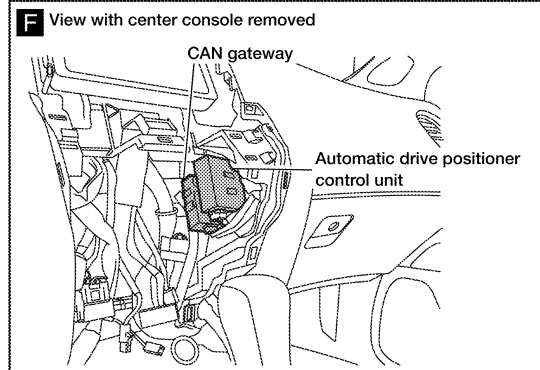
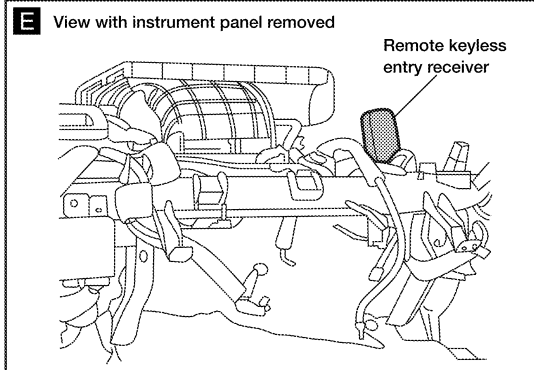
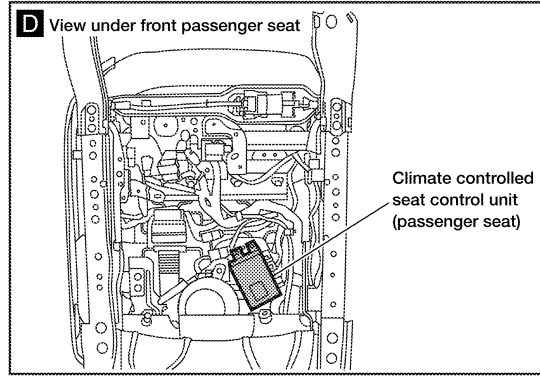
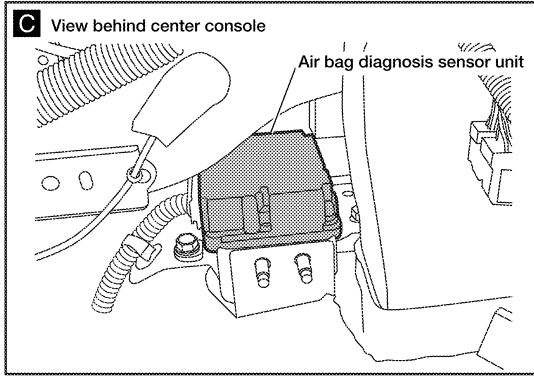


AAMIA1069GB



# ELECTRICAL UNITS LOCATION

< WIRING DIAGRAM >



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AAMIA1070GB

# HARNESS CONNECTOR

< WIRING DIAGRAM >

## HARNESS CONNECTOR

### Description

INFOID:000000009131091

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

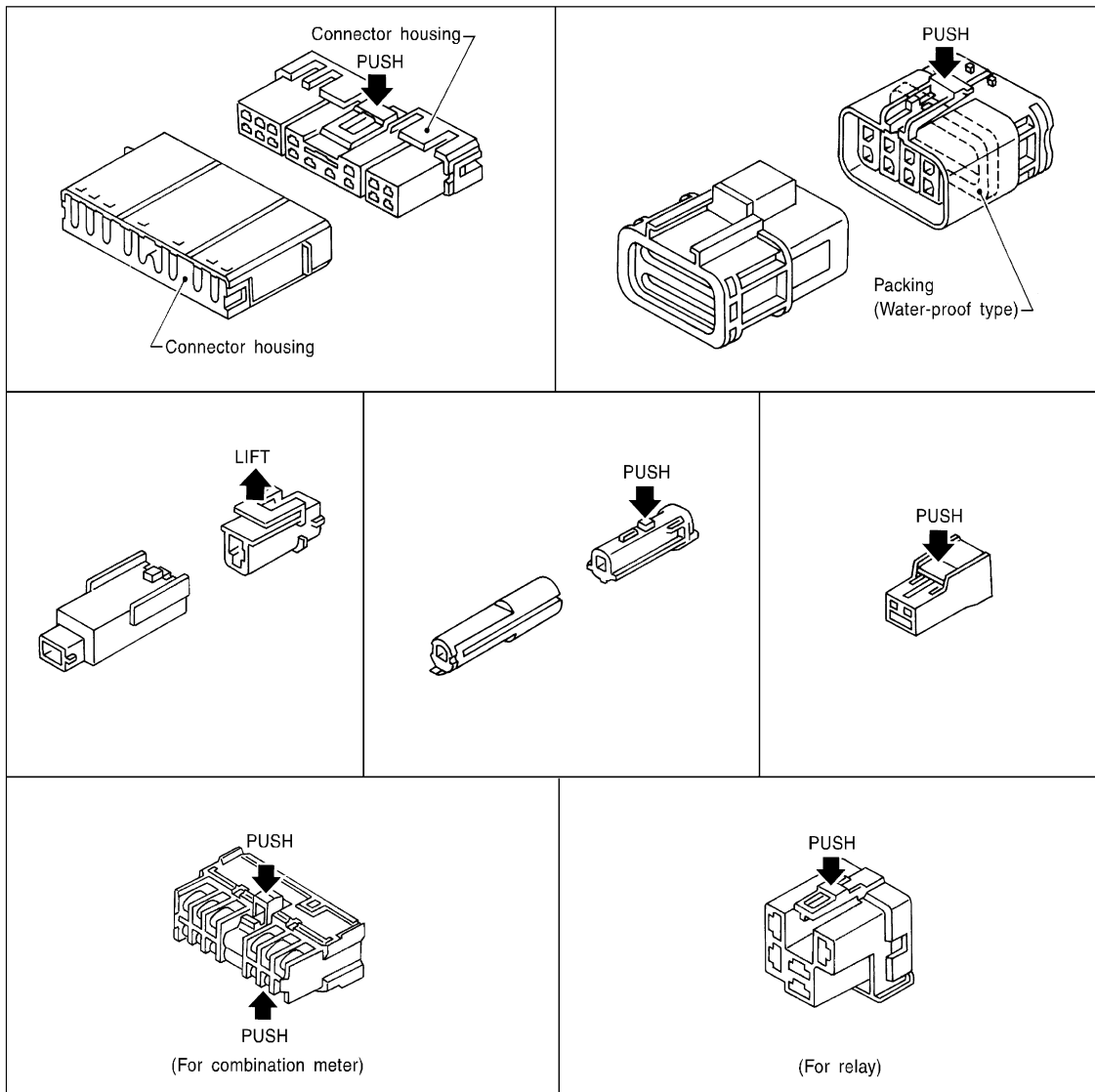
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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

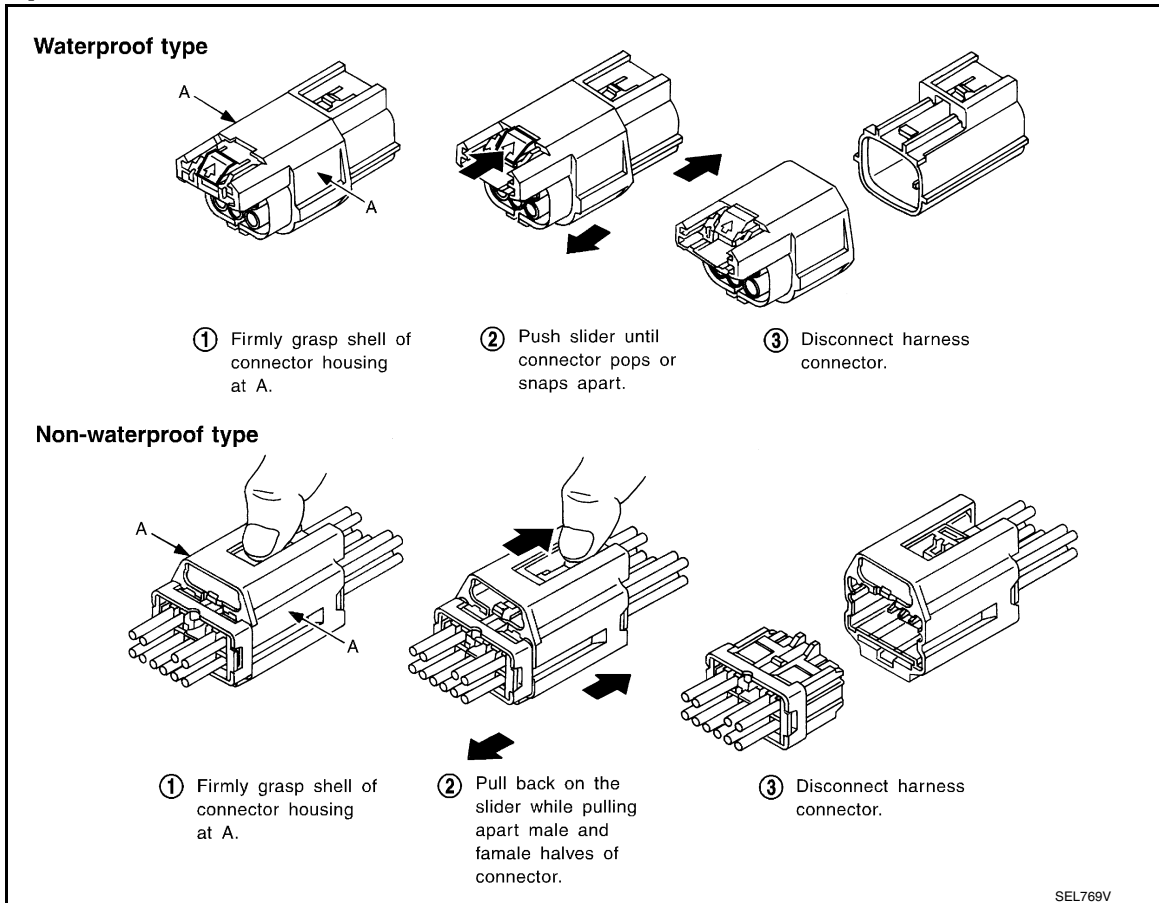
## < WIRING DIAGRAM >

- 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.

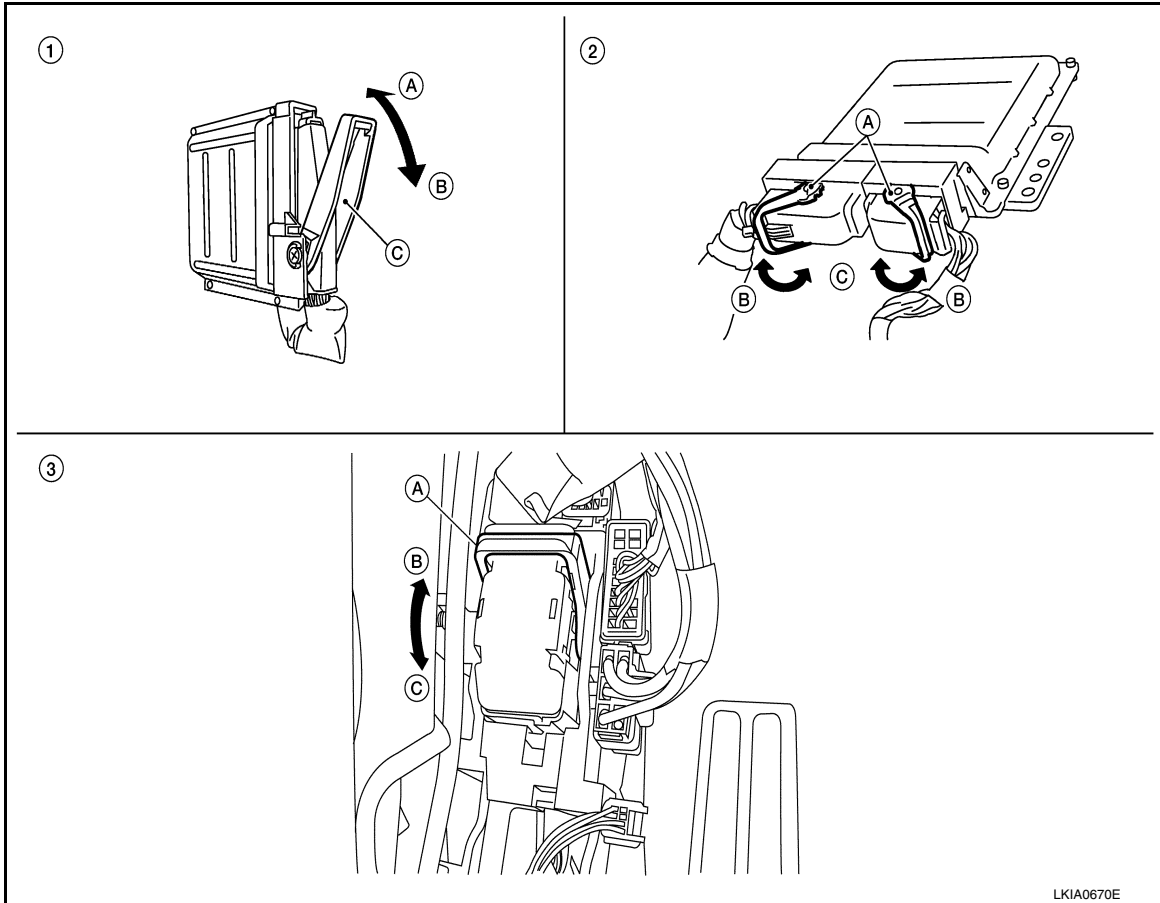
### CAUTION:

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# HARNES CONNECTOR

## < WIRING DIAGRAM >

- 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

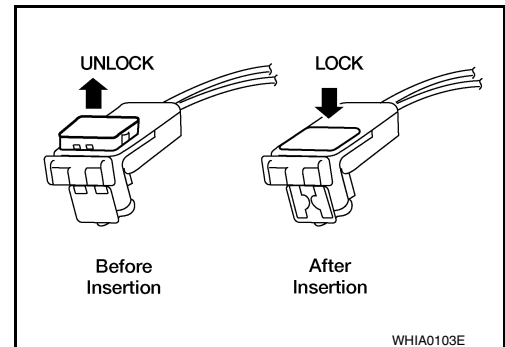
- |                                   |                                 |                  |
|-----------------------------------|---------------------------------|------------------|
| 1. Control unit with single lever | 2. Control unit with dual lever | 3. SMJ connector |
| A. Fasten              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

## 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

< WIRING DIAGRAM >

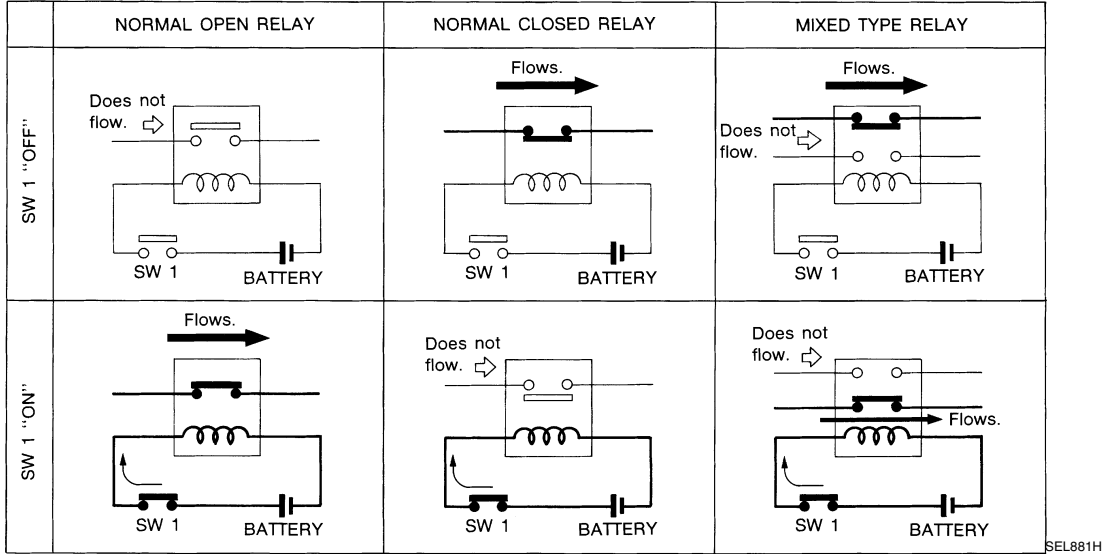
## STANDARDIZED RELAY

### Description

INFOID:000000009131092

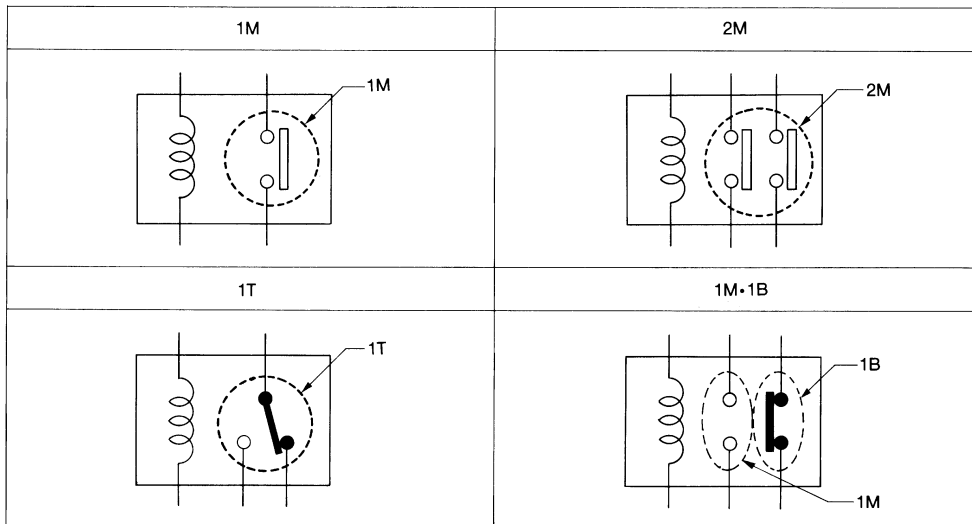
### NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



### TYPE OF STANDARDIZED RELAYS

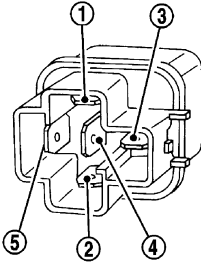
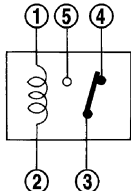
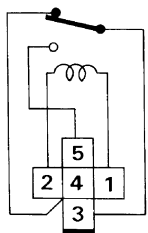
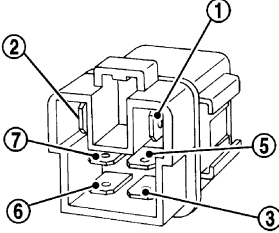
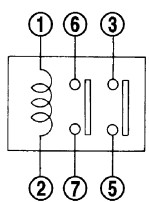
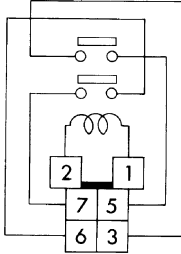
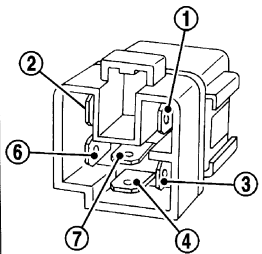
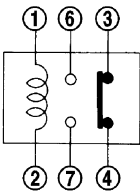
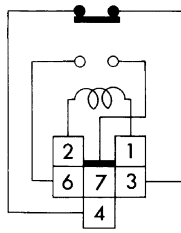
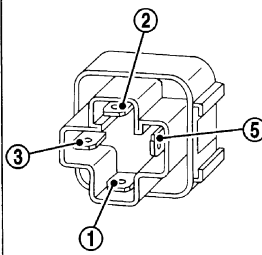
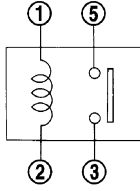
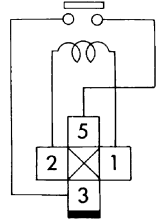
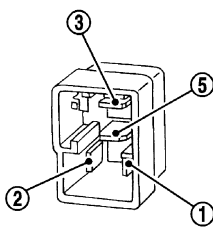
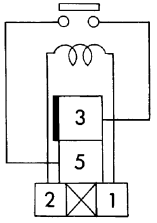
- 1M ..... 1 Make
- 1T ..... 1 Transfer
- 2M ..... 2 Make
- 1M-1B ..... 1 Make 1 Break



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# STANDARDIZED RELAY

< WIRING DIAGRAM >

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

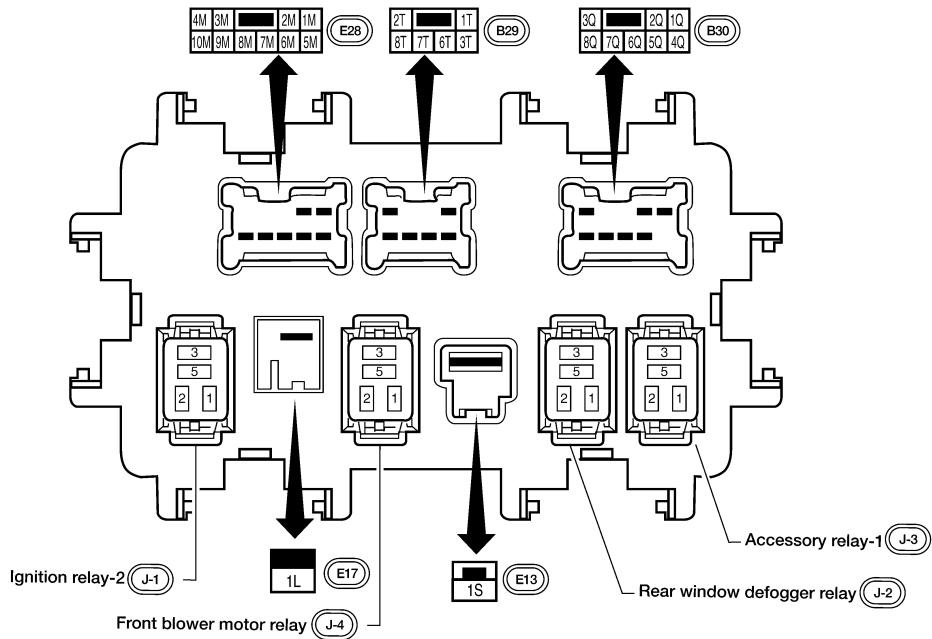
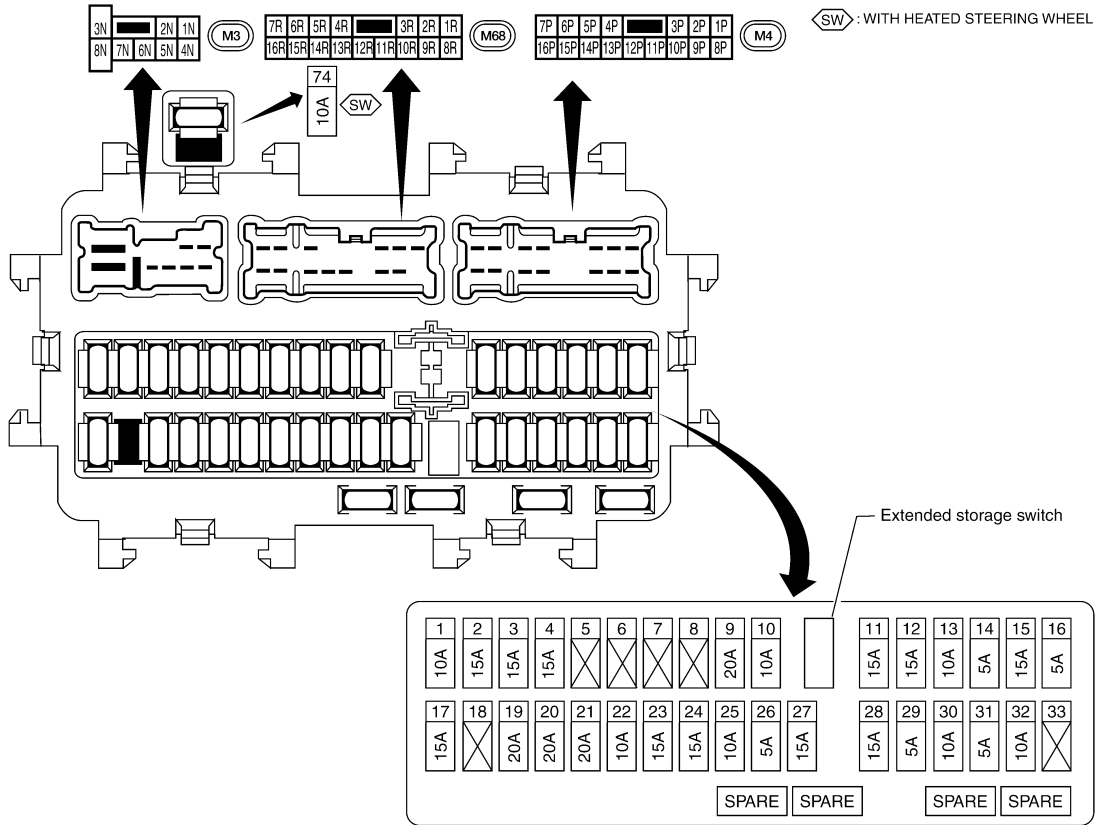
# FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

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

### Terminal Arrangement

INFOID:00000009131093



ABMIA4815GB

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# FUSE, FUSIBLE LINK AND RELAY BOX

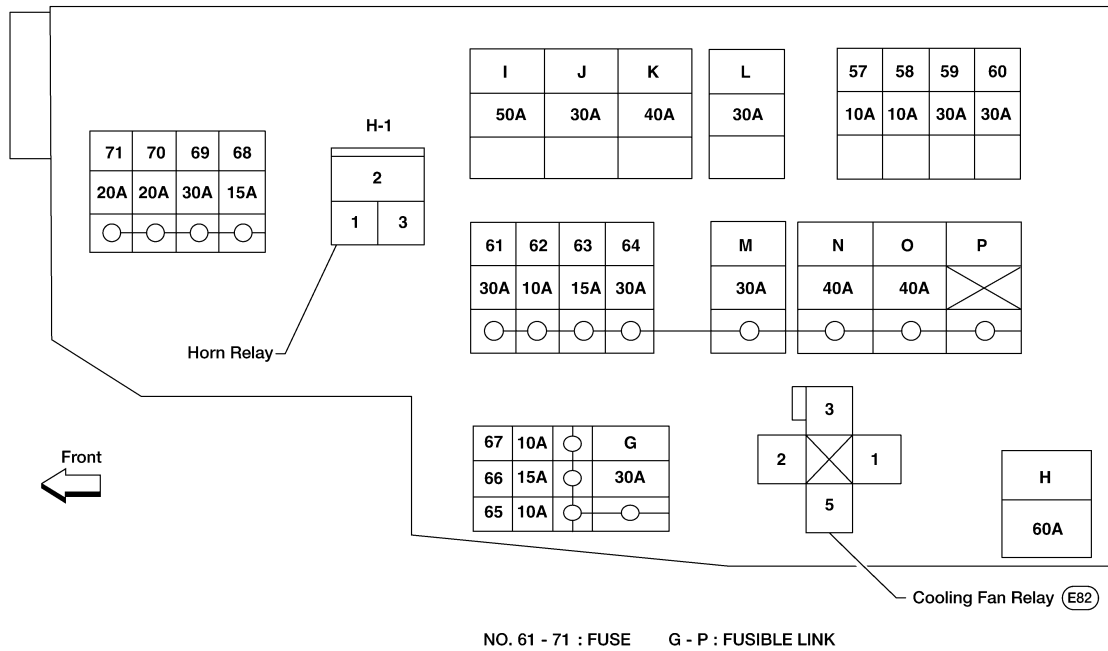
< WIRING DIAGRAM >

## FUSE, FUSIBLE LINK AND RELAY BOX

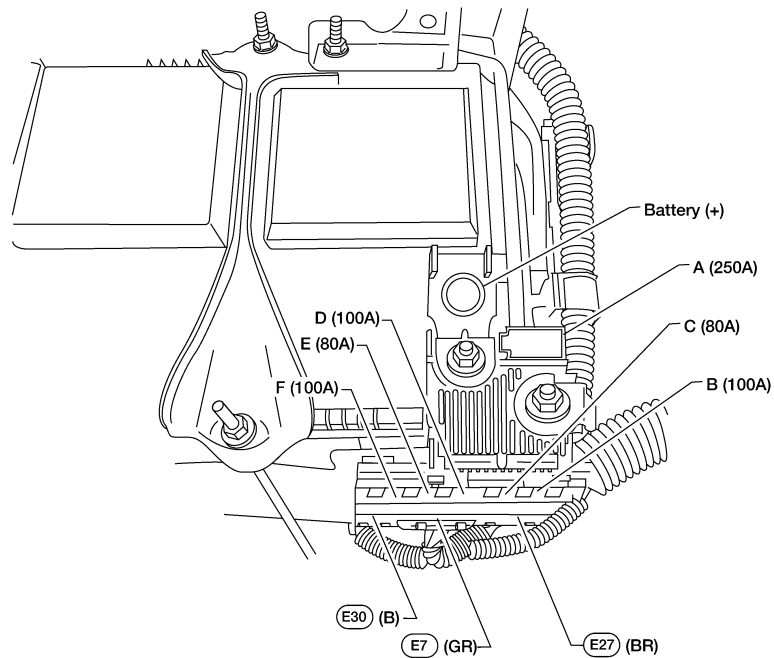
### Terminal Arrangement

INFOID:000000009131094

### FUSE AND FUSIBLE LINK BOX



### FUSIBLE LINK BOX (BATTERY)



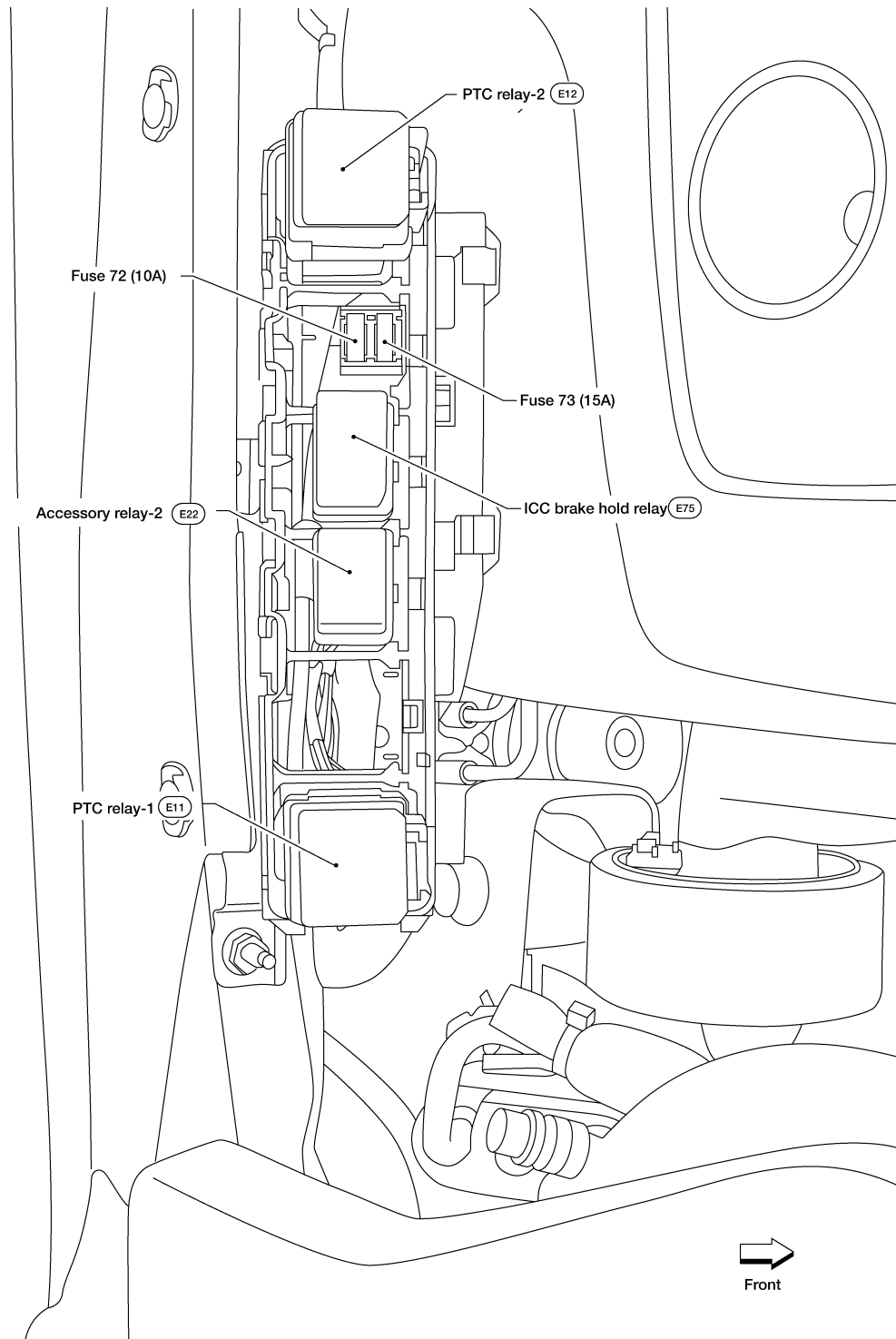
ABMIA4816GB



# FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

## FUSE AND RELAY BOX 1



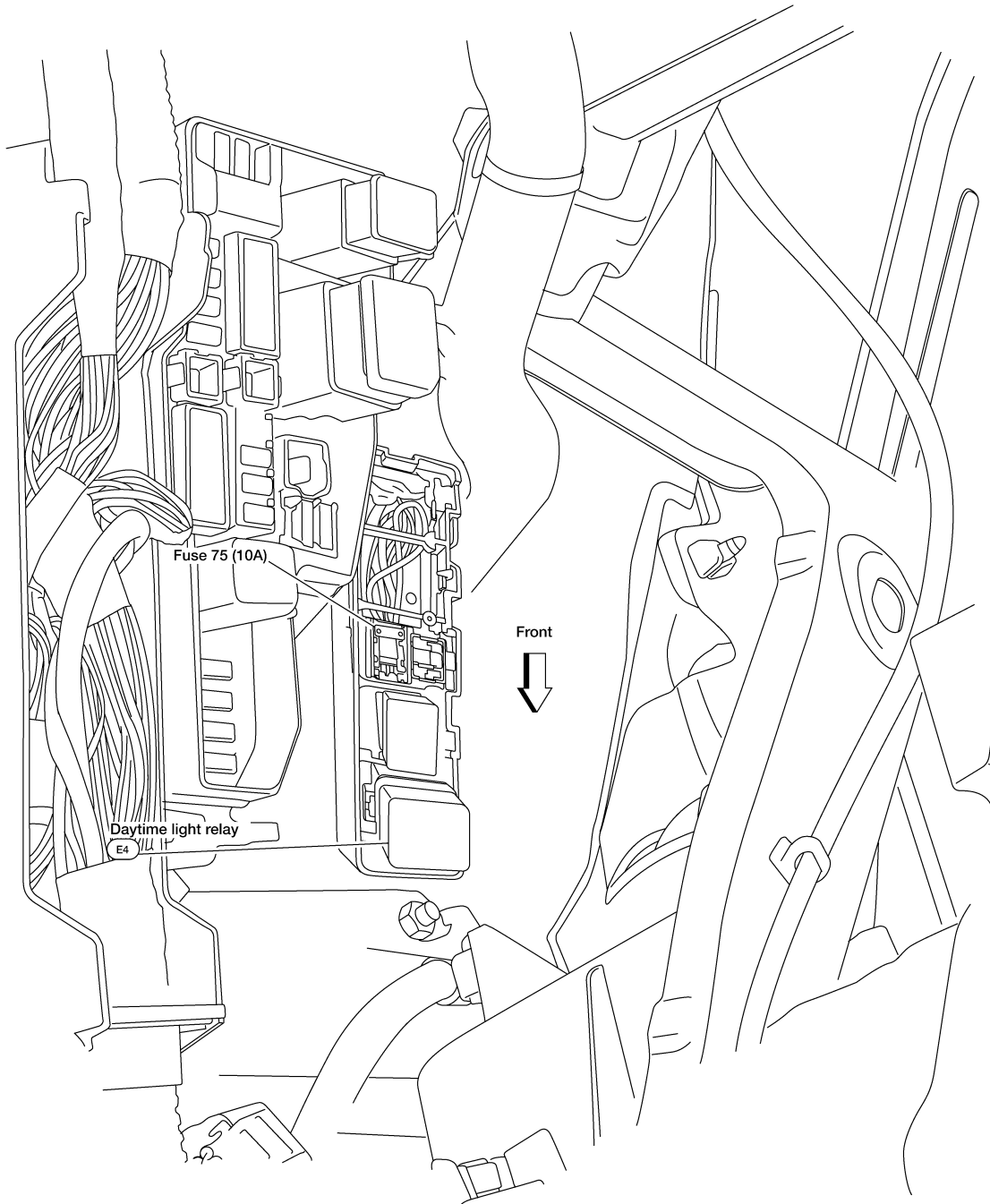
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ABMIA4817GB

# FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

## FUSE AND RELAY BOX 2



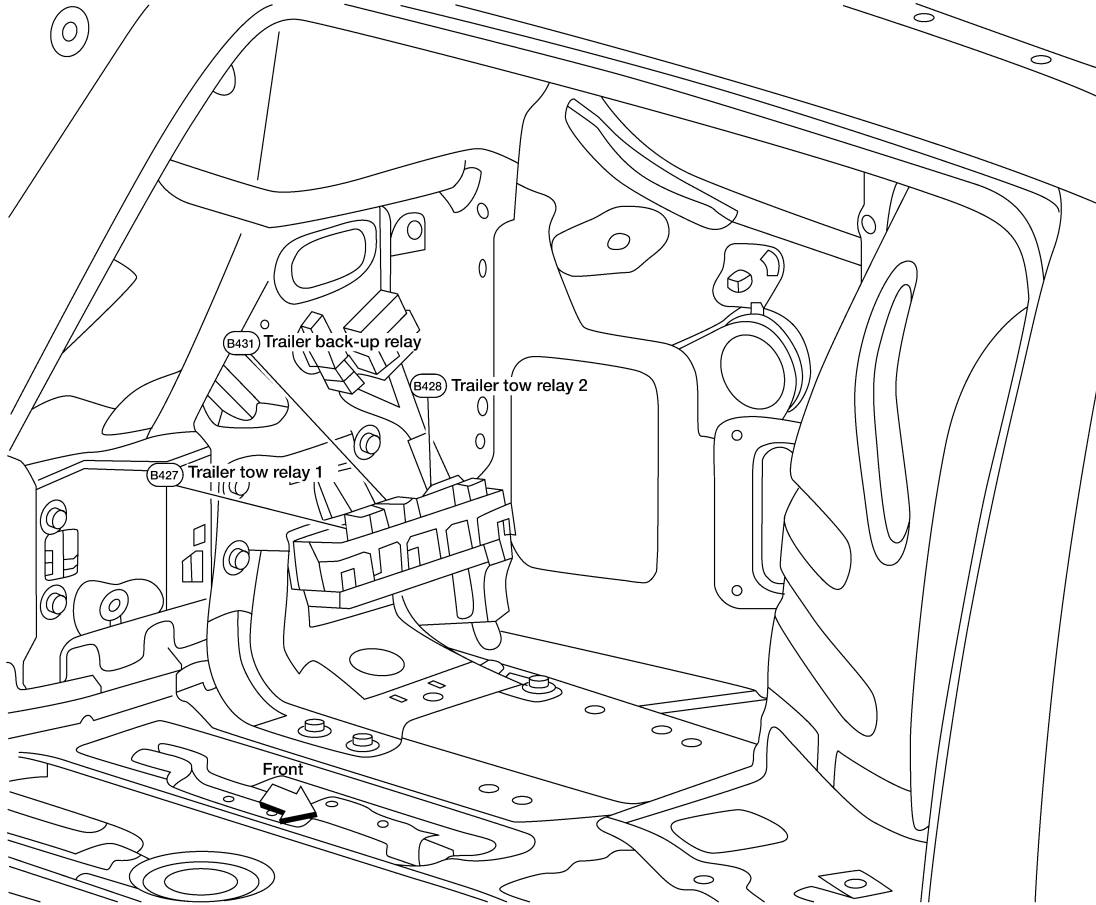
ABMIA4818GB

# FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

## RELAY BOX

View with luggage side lower finisher LH removed



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ABMIA4819GB

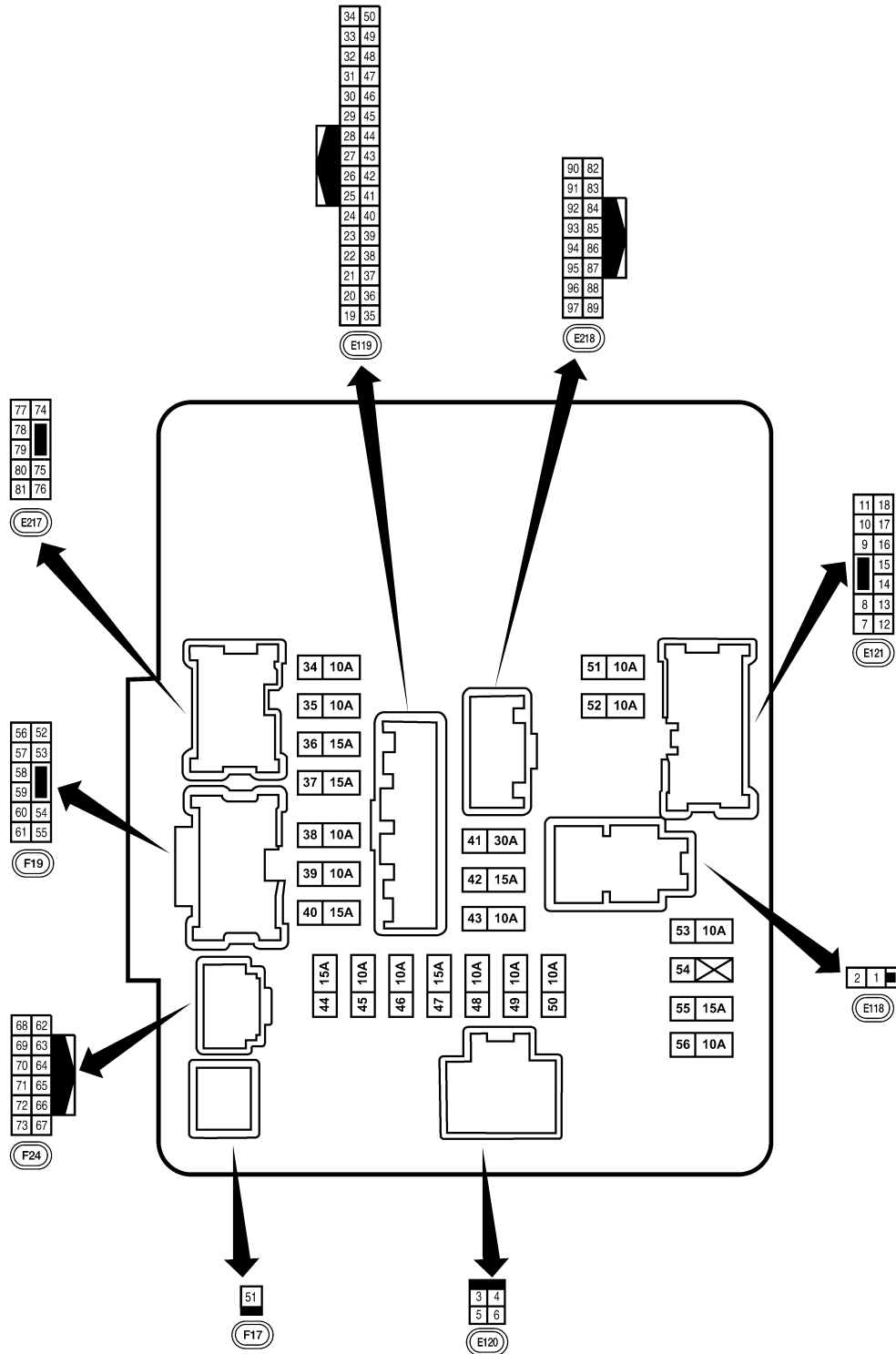
# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

### IPDM E/R Terminal Arrangement

INFOID:000000009131095



**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.

ABMIA4820ZZ

# BATTERY

< BASIC INSPECTION >

## BASIC INSPECTION

### BATTERY

#### How to Handle Battery

INFOID:000000009131096

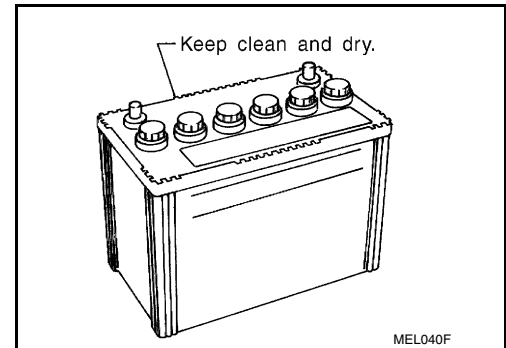
#### CAUTION:

- 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.

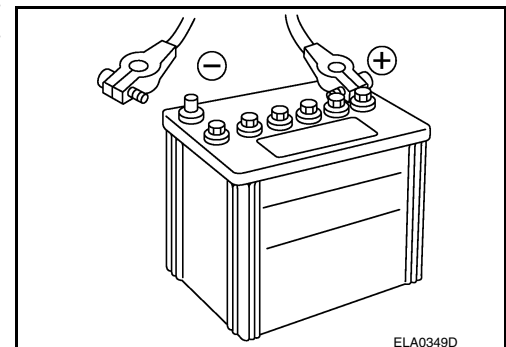
#### METHODS OF PREVENTING OVER-DISCHARGE

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.)



#### Work Flow

INFOID:000000009131097

#### BATTERY DIAGNOSIS WITH EXP-800 NI OR GR8-1200 NI

To diagnose and confirm the condition of the battery, use the following special service tools:

- EXP-800 NI Battery and electrical diagnostic analyzer
- GR8-1200 NI Multitasking battery and electrical diagnostic station

#### NOTE:

Refer to the applicable Instruction Manual for proper battery diagnosis procedures.

#### BATTERY DIAGNOSIS WITHOUT EXP-800 NI OR GR8-1200 NI

##### 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. Failure to do this may cause personal injury or damage to clothing or the painted surfaces.

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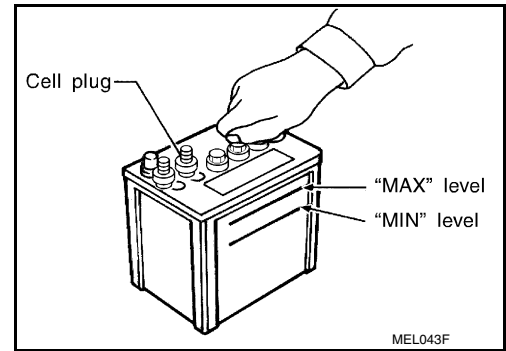
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# BATTERY

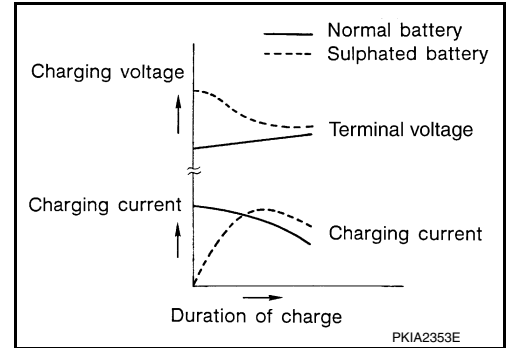
## < BASIC INSPECTION >

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



## SULFATION

- **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 sulfation on the cell plates.**
- **To determine if a battery has been “sulfated”, 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 sulfated batteries.**
- **A sulfated 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.**



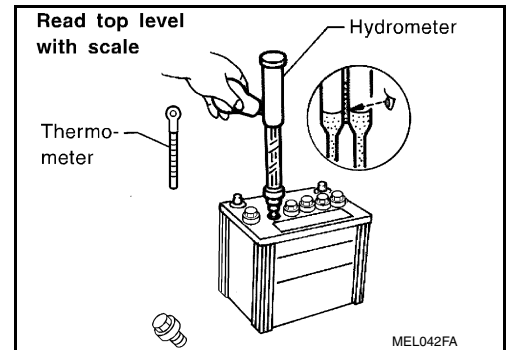
## Specific Gravity Check

### NOTE:

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.

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

# BATTERY

## < BASIC INSPECTION >

Battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
4 (40)	-0.016
-1 (30)	-0.020
-7 (20)	-0.024
-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 (Standard Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	7	2
3/4 charged		2.5
1/2 charged		5
1/4 charged		7.5
Almost discharged		9
Completely discharged		10

#### Charging Rates (Quick Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	—	—
3/4 charged	16	0.5
1/2 charged	33	
1/4 charged		
Almost discharged	—	—
Completely discharged	—	

#### **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.

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# 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

INFOID:000000009131098

#### Required Procedure After Battery Disconnection

System	Item	Reference
Engine Control System	Idle Air Volume Learning	<a href="#">EC-153</a>
Brake Control System	Steering Angle Sensor Neutral Position	<a href="#">BRC-60</a>
Power Window Control System	Power Window System Initialization	<a href="#">PWC-35</a>
Roof	Moonroof Memory Reset/Initialization Sunshade Memory Reset/Initialization	<a href="#">RF-24</a>
Automatic Drive Positioner	Automatic Drive Positioner System Initialization	Refer to Owner's Manual.
Heater & Air Conditioning Control System	Temperature Setting Trimmer (front)	<a href="#">HAC-83</a>
	Temperature Setting Trimmer (rear)	<a href="#">HAC-84</a>
	Foot Position Setting Trimmer	<a href="#">HAC-83</a>
	Inlet Port Memory Function (FRE)	<a href="#">HAC-84</a>
	Inlet Port Memory Function (REC)	<a href="#">HAC-84</a>
	Exhaust Gas/Outside Odor Detecting Sensor Sensitivity Adjustment Function	<a href="#">HAC-85</a>
	Auto Intake Switch Interlocking Movement Change Function	<a href="#">HAC-85</a>
Audio, Visual & Navigation System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation System	Refer to Owner's Manual.



# BATTERY

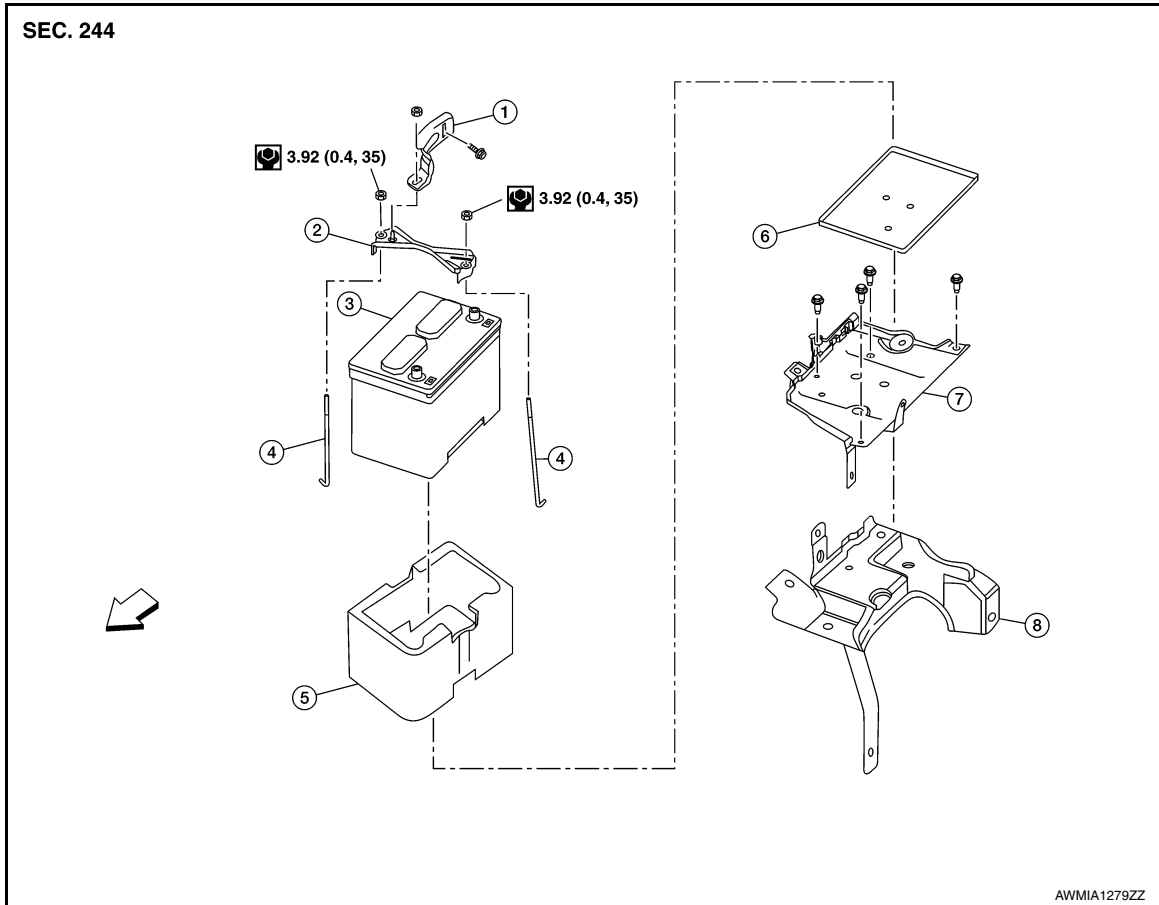
< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### BATTERY

Exploded View

INFOID:000000009131099



- |                      |                         |                       |
|----------------------|-------------------------|-----------------------|
| 1. Upper ECM bracket | 2. Battery frame        | 3. Battery            |
| 4. Battery rods      | 5. Battery cover        | 6. Battery tray liner |
| 7. Battery tray      | 8. Battery tray support | ← Front               |

## Removal and Installation

INFOID:000000009131100

### REMOVAL

1. Remove cover of battery positive terminal.
2. Loosen battery terminal nuts and disconnect both negative and positive terminals from the battery.  
**CAUTION:**  
**To prevent damage to the parts, disconnect the battery negative terminal first.**
3. Remove battery frame nuts, battery frame and battery rods.
4. Remove battery cover.
5. Remove battery.

### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

**Replace the battery if it has been dropped or sustained an impact.**

**To install the battery, carefully read the following instructions:**

- **To prevent damage to the parts, connect the battery cable to the positive terminal first.**

## BATTERY

### < REMOVAL AND INSTALLATION >

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- After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.
- To securely supply battery voltage, check battery terminal for poor connection caused by corrosion. Reset electronic systems as necessary. Refer to [PG-92. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

# BATTERY TRAY

< REMOVAL AND INSTALLATION >

## BATTERY TRAY

### Removal and Installation

INFOID:000000009131101

#### REMOVAL

1. Remove battery and battery tray liner. Refer to [PG-93, "Removal and Installation"](#). A
2. Remove air cleaner assembly. Refer to [EM-24, "Removal and Installation"](#). B
3. Disconnect harness connector and then remove ECM. C
4. Disconnect the harness connector from the transmission control module (TCM). Refer to [TM-193, "Exploded View"](#). D
5. Remove the ECM bracket. E
6. Remove the battery tray bolts and battery tray. E
7. Remove the battery tray support bolts and battery tray support. E

#### INSTALLATION

Installation is in the reverse order of removal.

Reset electronic systems as necessary. Refer to [PG-92, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#). F

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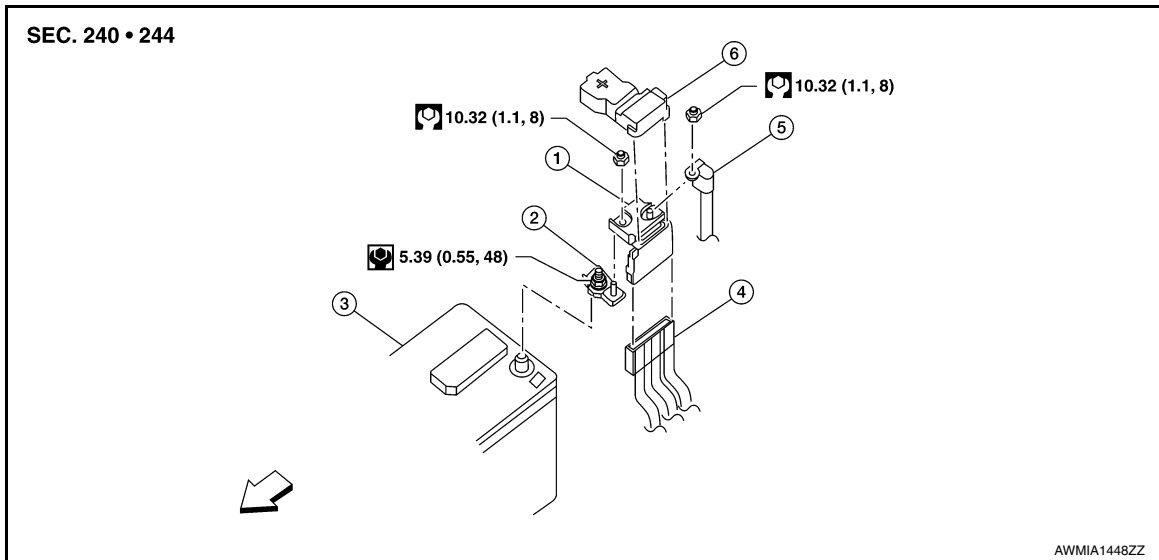
# BATTERY TERMINAL WITH FUSIBLE LINK

< REMOVAL AND INSTALLATION >

## BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:000000009729275



- |                                   |                       |            |
|-----------------------------------|-----------------------|------------|
| 1. Fusible link box (battery)     | 2. Positive Terminal  | 3. Battery |
| 4. Harness connectors             | 5. Positive cable     | 6. Cover   |
| A. Fusible link box (battery) nut | B. Positive cable nut | ⇐ Front    |

## Removal and Installation

INFOID:000000009729276

### REMOVAL

- Loosen battery terminal nuts and disconnect both negative and positive terminals from the battery.  
**CAUTION:**  
**To prevent damage to the parts, disconnect the battery negative terminal first.**
- Disconnect positive cable from fusible link box (battery).
- Disconnect harness connectors and separate positive terminal from fusible link box (battery).

### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

**Replace the fusible link box battery if it has been dropped or sustained and impact.**

**To install the battery, carefully read the following instructions:**

- To prevent damage to the parts, connect the battery cable to the positive terminal first.**
- After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.**
- To securely supply battery voltage, check battery terminal for poor connection caused by corrosion.**

Reset electronic systems as necessary. Refer to [PG-92. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

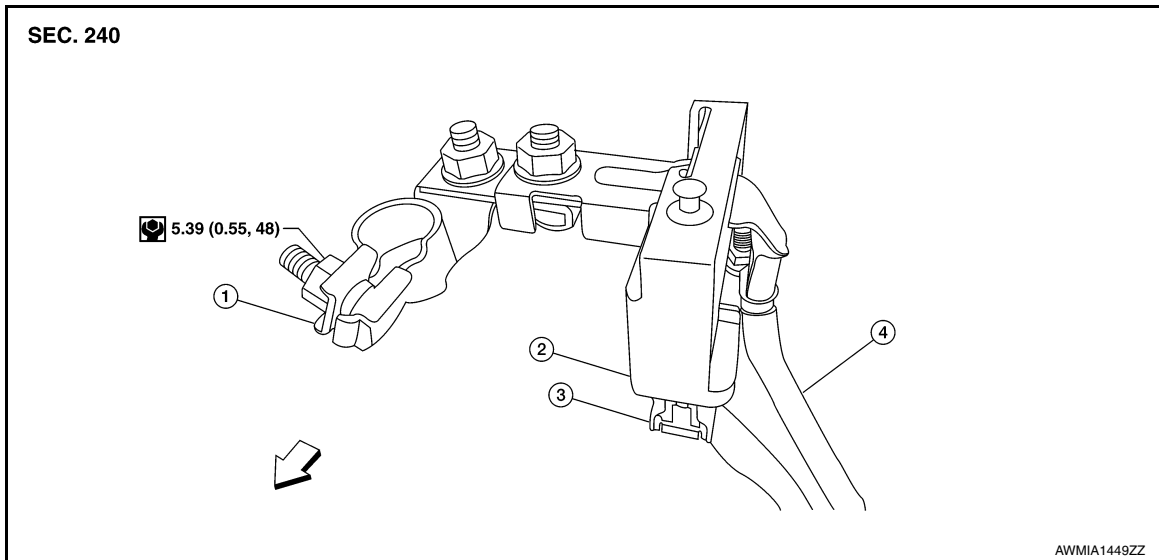
# BATTERY CURRENT SENSOR

< REMOVAL AND INSTALLATION >

## BATTERY CURRENT SENSOR

Exploded View

INFOID:000000009729277



1. Negative terminal
  2. Current sensor
  3. Harness connector
  4. Negative cable
- ⇐ Front

## Removal and Installation

INFOID:000000009729278

### REMOVAL

1. Disconnect negative terminal from the battery.
2. Disconnect harness connector from current sensor.
3. Remove nut and separate current sensor from the negative terminal.
4. Remove nut and separate negative cable from the current sensor and remove the current sensor.

### INSTALLATION

Installation is in the reverse order of removal.

#### **CAUTION:**

**Replace the battery current sensor if it has been dropped or sustained and impact.**

**To install the battery, carefully read the following instructions:**

- **To prevent damage to the parts, connect the battery cable to the positive terminal first.**
  - **After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.**
  - **To securely supply battery voltage, check battery terminal for poor connection caused by corrosion.**
- Reset electronic systems as necessary. Refer to [PG-92, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

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## SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Battery

INFOID:000000009131102

Type*	GR35
Capacity (20HR) minimum V-AH	12 - 60
Cold cranking current A @ -18°C (0°F)	550

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