

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

PRECAUTION	3	Wiring Diagram - BATTERY POWER SUPPLY	
PRECAUTIONS	3	FUSE No. 52 -	34
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	3	Wiring Diagram - ACCESSORY POWER SUPPLY -	35
Precaution for Power Generation Voltage Variable Control System	3	Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 21 -	39
PREPARATION	4	Wiring Diagram - IGNITION POWER SUPPLY -	40
PREPARATION	4	Wiring Diagram - IGNITION POWER SUPPLY COOLING FAN RELAY	52
Special Service Tool	4	Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 22	53
Commercial Service Tool	4	Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 30	54
SYSTEM DESCRIPTION	5	Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 41 -	55
ELECTRICAL UNITS LOCATION	5	Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 42 -	56
Electrical Units Location	5	Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 43 -	57
COMPONENT PARTS	9	GROUND	58
Circuit Breaker (Built Into BCM)	9	Ground Distribution	58
Circuit Breaker (External to BCM)	9	HARNESS	70
Harness Connector	9	Harness Layout	70
Standardized Relay	12	FUSE BLOCK - JUNCTION BOX (J/B)	89
WIRING DIAGRAM	15	Terminal Arrangement	89
POWER SUPPLY ROUTING CIRCUIT	15	FUSE, FUSIBLE LINK AND RELAY BOX	90
Wiring Diagram - BATTERY POWER SUPPLY -	15	Terminal Arrangement	90
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 9 -	28	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	91
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 10 -	29	Fuse, Connector and Terminal Arrangement	91
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 26 -	30	BASIC INSPECTION	92
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 38 -	31	BATTERY	92
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 39 -	32	How to Handle Battery	92
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 40 -	33	Work Flow	92

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

PG

INSPECTION AND ADJUSTMENT	95	BATTERY TRAY	103
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL	95	Exploded View	103
ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement	95	Removal and Installation (Battery Tray)	103
FUSE INSPECTION	96	BATTERY TERMINAL WITH FUSIBLE LINK..	105
How To Check	96	Exploded View	105
FUSIBLE LINK INSPECTION	100	Removal and Installation	105
Fusible Link	100	BATTERY CURRENT SENSOR	106
REMOVAL AND INSTALLATION	101	Exploded View	106
BATTERY	101	Removal and Installation	106
Exploded View	101	SERVICE DATA AND SPECIFICATIONS (SDS)	107
Removal and Installation (Battery)	101	BATTERY	107
		Battery	107

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000012269744

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. 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.

Precaution for Power Generation Voltage Variable Control System

INFOID:000000012377439

CAUTION:

For this model, the battery current sensor that is installed to the battery cable at the negative terminal measures the charging/discharging current of the battery, and performs various controls. If the electrical component or the ground wire is connected directly to the battery terminal, the current other than that being measured with the battery current sensor is charging to or discharging from the battery. This condition causes the malfunction of the control, and then the battery discharge may occur. Do not connect the electrical component or the ground wire directly to the battery terminal.

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

PG

PREPARATION

< PREPARATION >


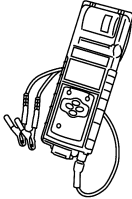
PREPARATION

PREPARATION

Special Service Tool

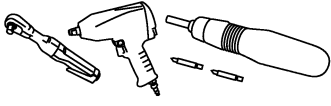
INFOID:000000011937427

The actual shape of the tools may differ from those illustrated here.

Tool number (TechMate No.) Tool name	Description
<p>— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station</p>  <p style="text-align: right; font-size: small;">AWI1A1239ZZ</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; font-size: small;">JSMIA0806ZZ</p>	<p>Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.</p>

Commercial Service Tool

INFOID:000000011937428

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

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >

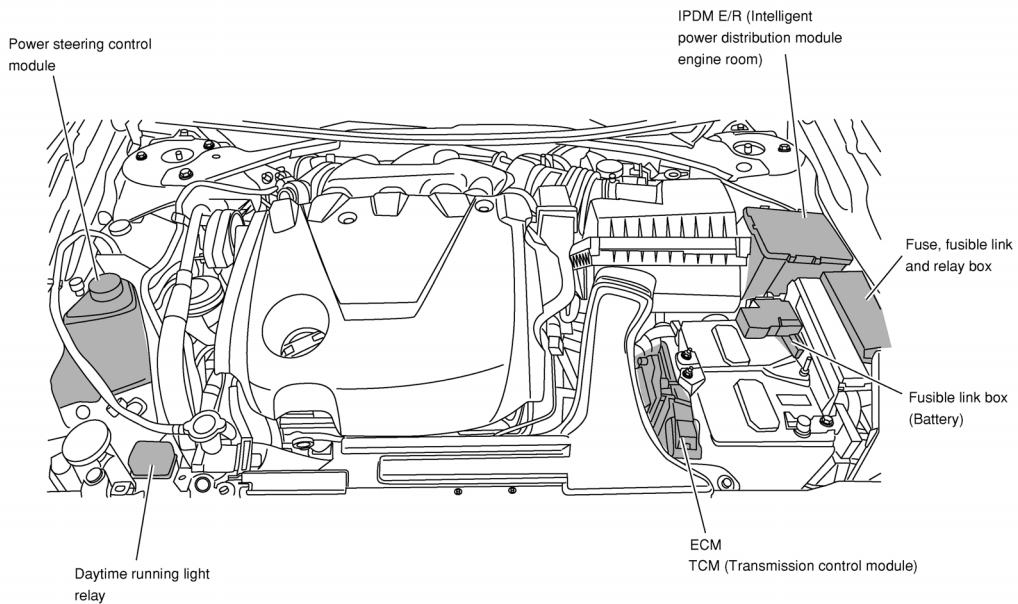
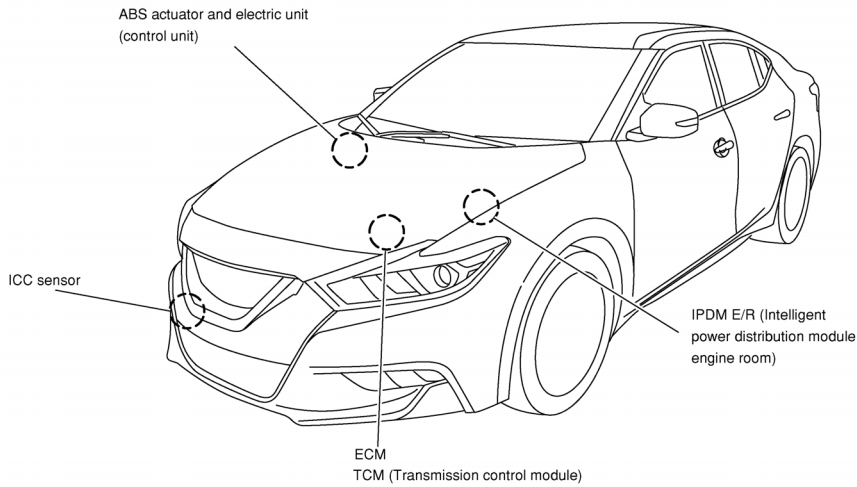
SYSTEM DESCRIPTION

ELECTRICAL UNITS LOCATION

Electrical Units Location

INFOID:0000000011937429

ENGINE COMPARTMENT

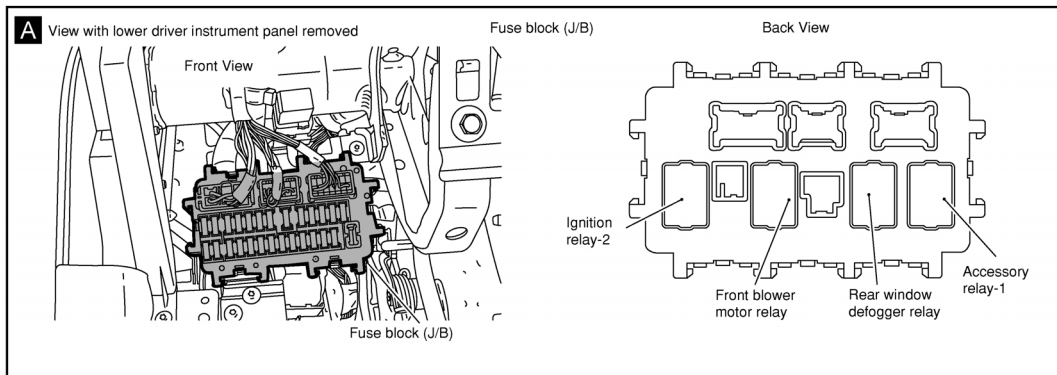
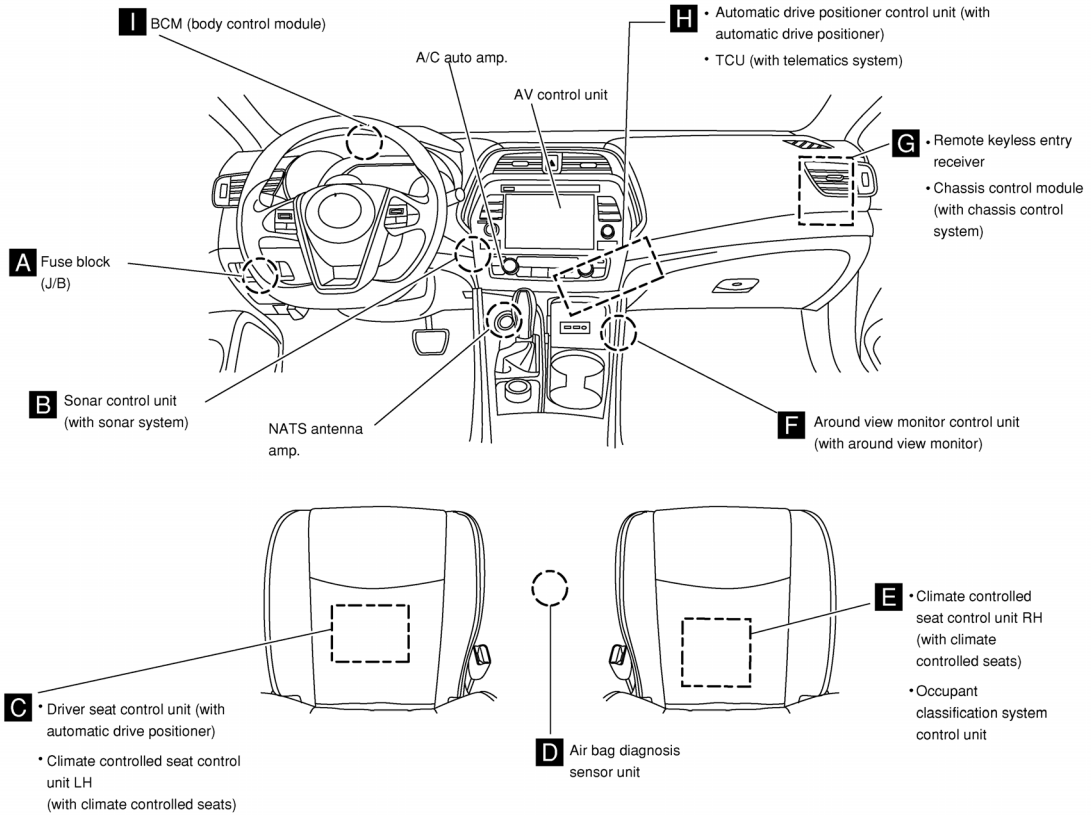


AAMIA3453GB

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >

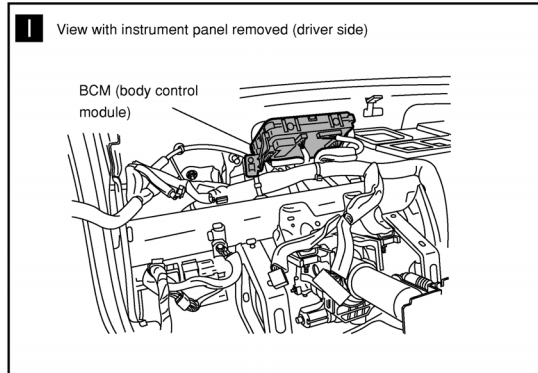
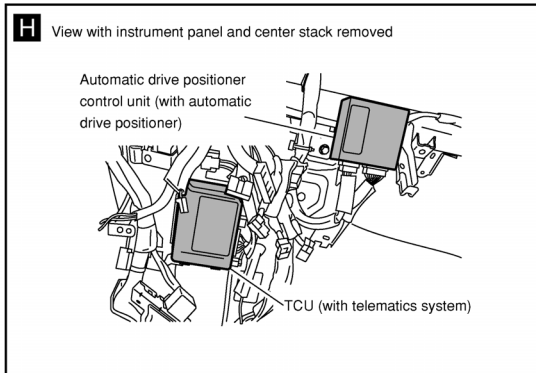
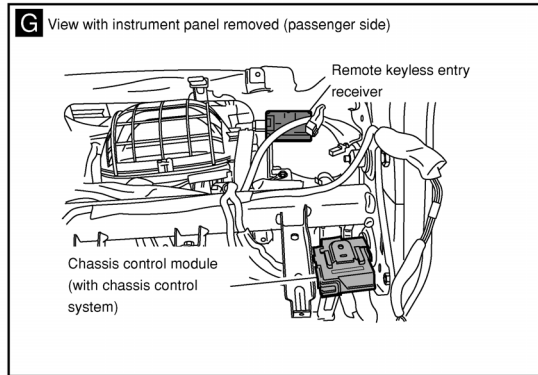
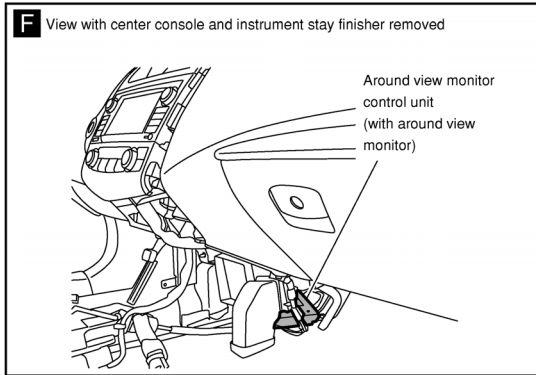
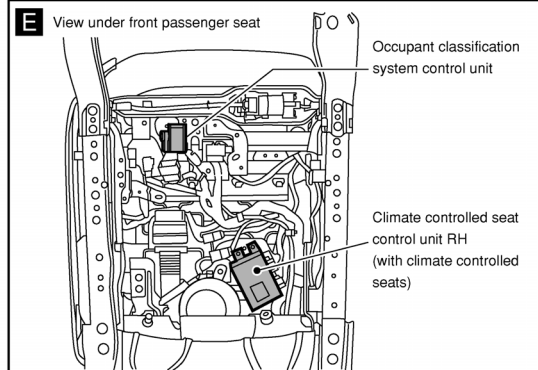
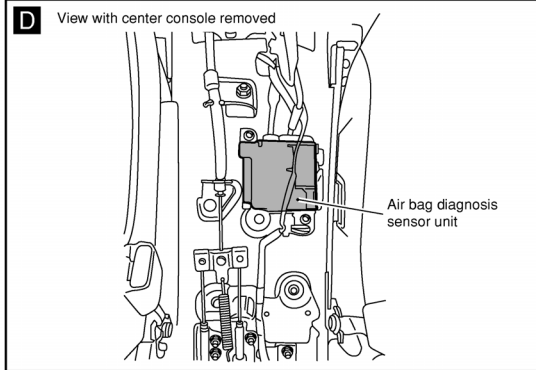
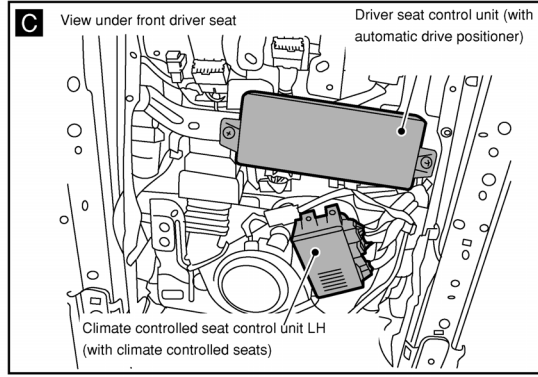
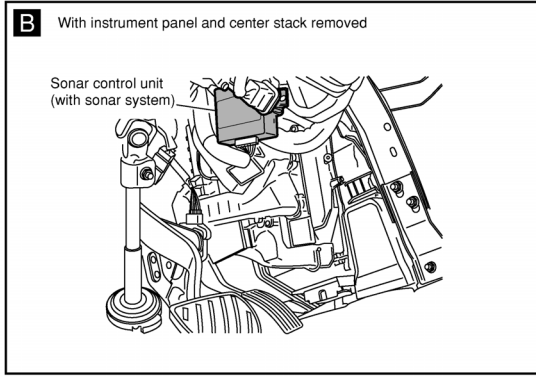
PASSENGER COMPARTMENT



AAMIA3456GB

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >

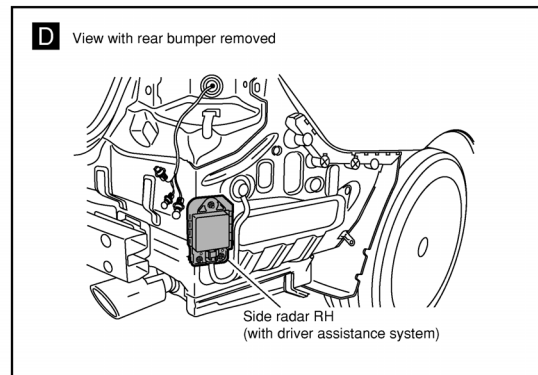
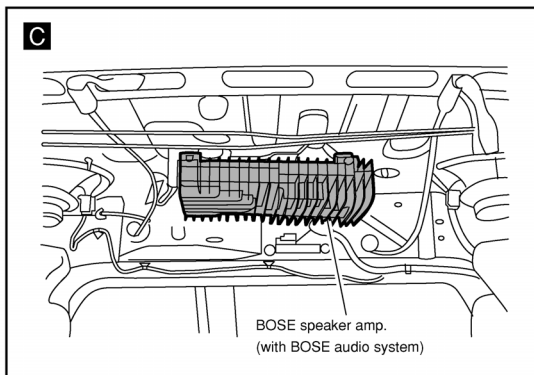
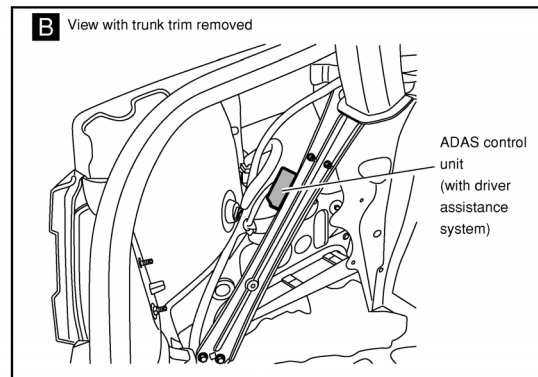
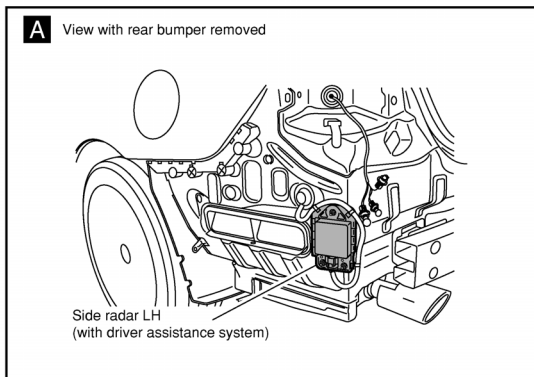
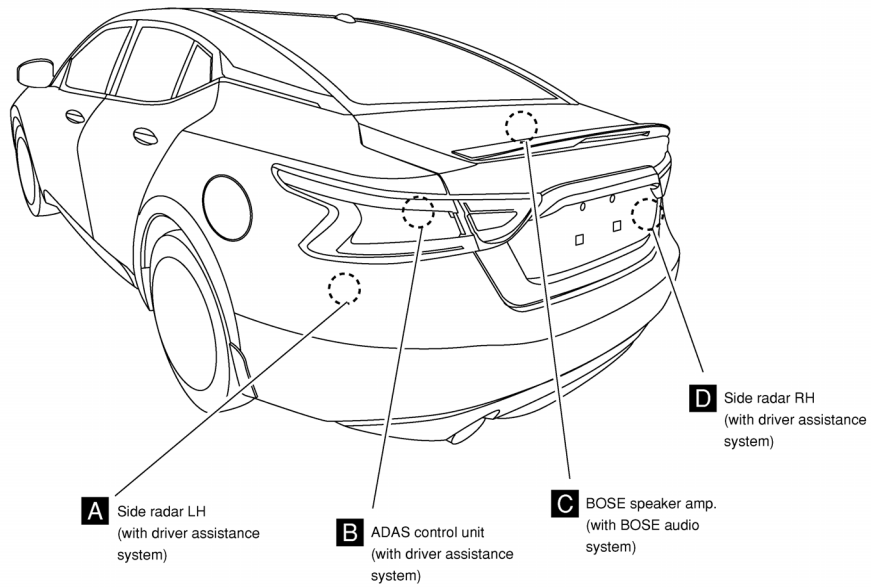


AAMIA3457GB

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

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION > LUGGAGE COMPARTMENT



AAMIA3458GB

COMPONENT PARTS

< SYSTEM DESCRIPTION >

COMPONENT PARTS

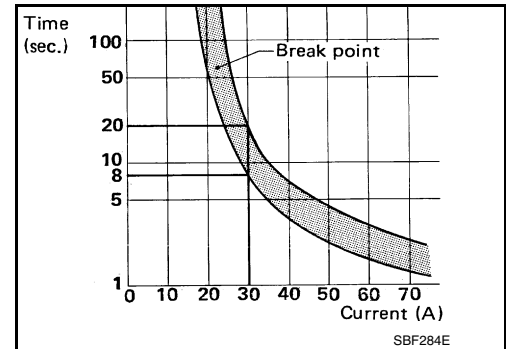
Circuit Breaker (Built Into BCM)

INFOID:0000000011937430

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

This circuit breaker is used for the following systems:

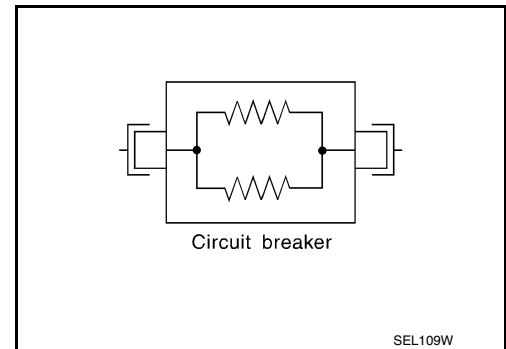
- Power windows
- Power moonroof



Circuit Breaker (External to BCM)

INFOID:0000000011937431

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 reduce the circuit current. This reduced current flow will cause the element to cool lowering the resistance accordingly. Once resistance falls to a specified level normal circuit current flow is allowed to resume.



Harness Connector

INFOID:0000000011937432

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.

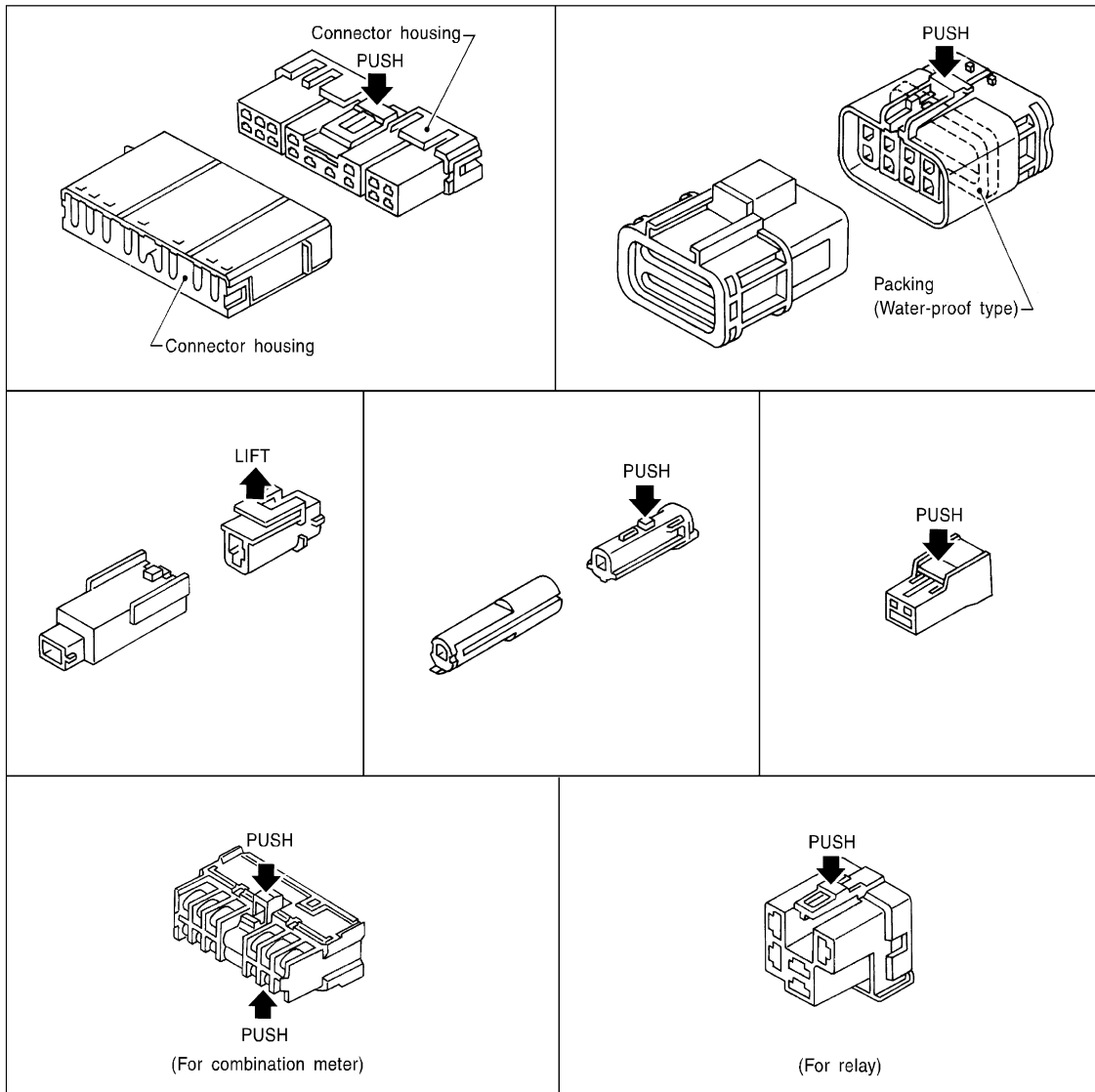
A
B
C
D
E
F
G
H
I
J
K
L

PG

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.

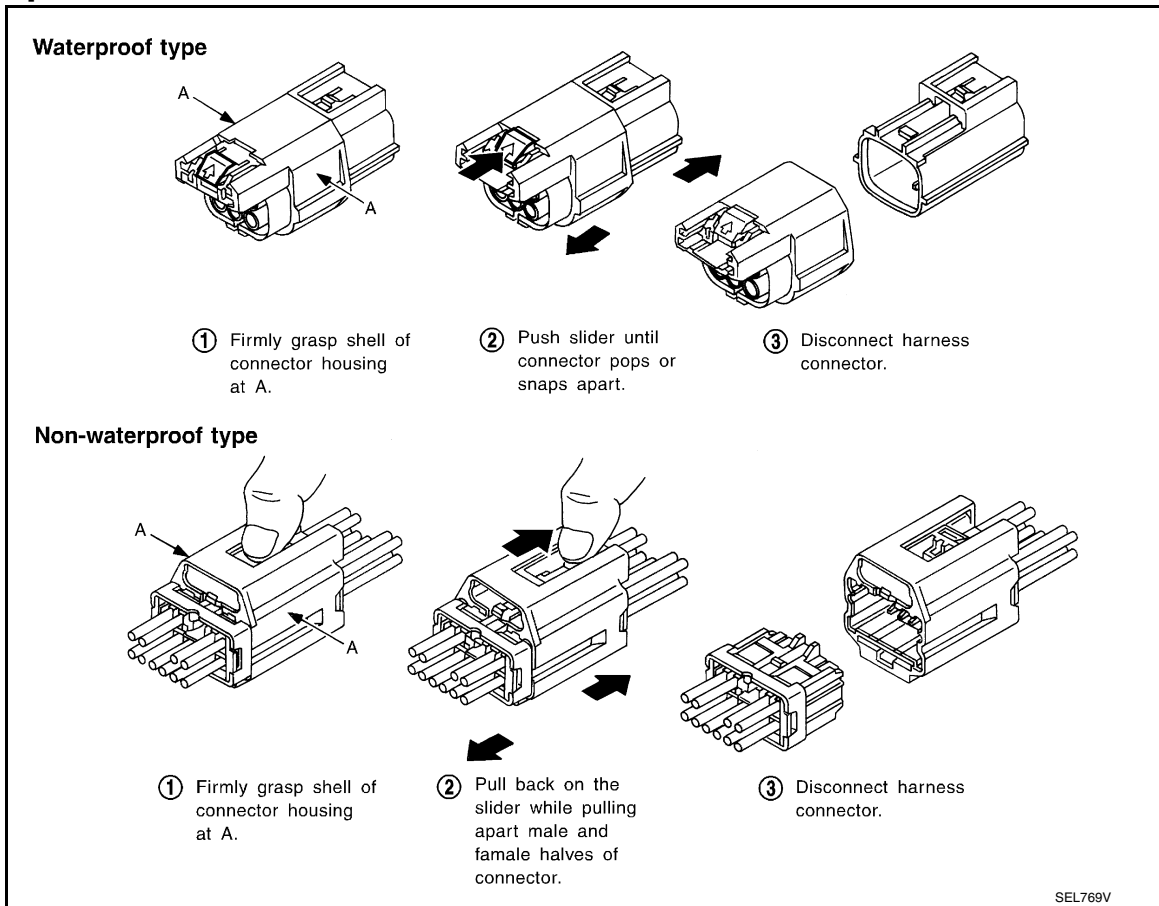
CAUTION:

- **Do not 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:

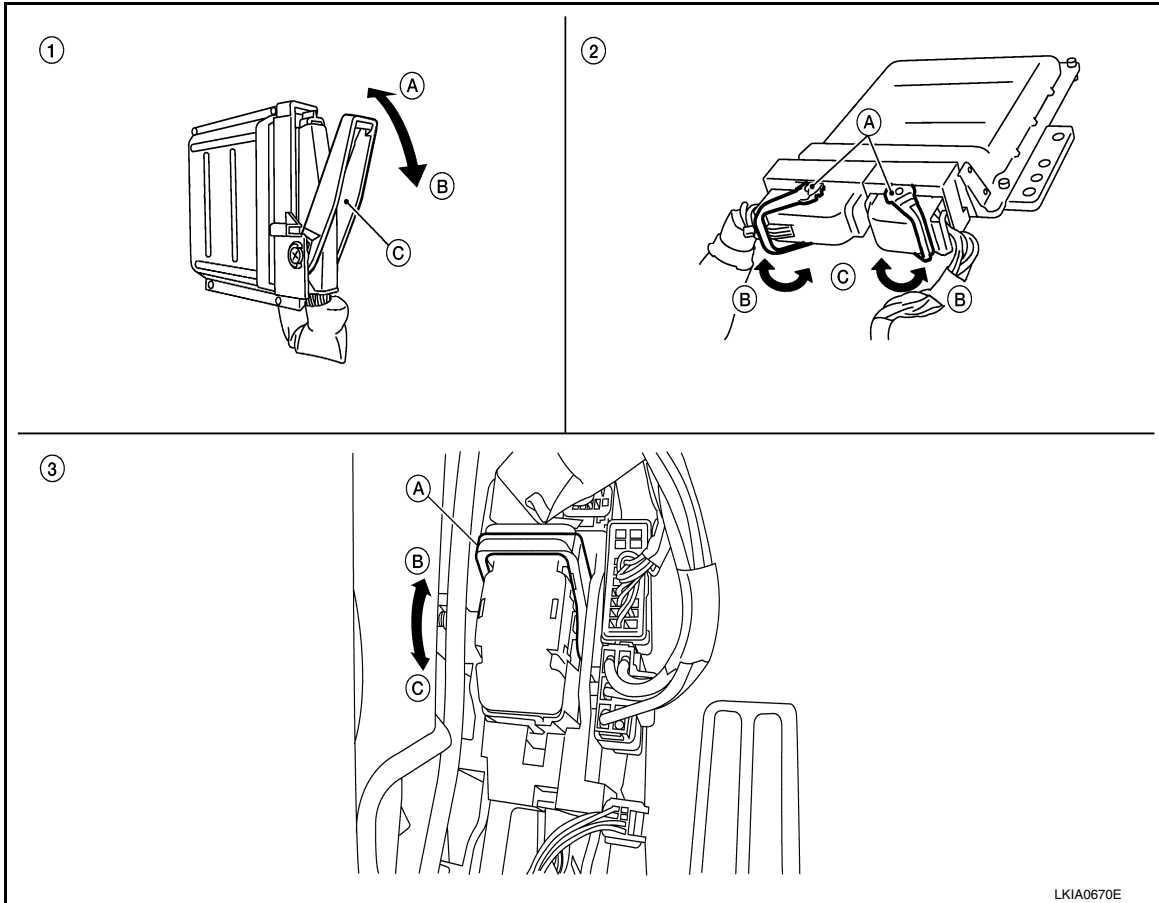
A
B
C
D
E
F
G
H
I
J
K
L
N
O
P

PG

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.



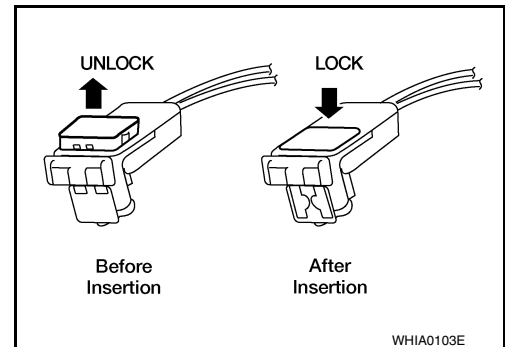
- | | | |
|-----------------------------------|---------------------------------|------------------|
| 1. Control unit with single lever | 2. Control unit with dual lever | 3. SMJ connector |
| A. Fasten | A. Lever | A. Lever |
| B. Loosen | B. Fasten | B. Fasten |
| C. Lever | C. Loosen | C. Loosen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

HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

- SRS direct-connect type harness connectors are used on certain SRS components such as air bag modules and seat belt pre-tensioners.
- Always pull up to release black locking tab prior to removing connector from SRS components.
- Always push down to lock black locking tab after installing connector to SRS components. When locked, the black locking tab is level with the connector housing.

CAUTION:

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



Standardized Relay

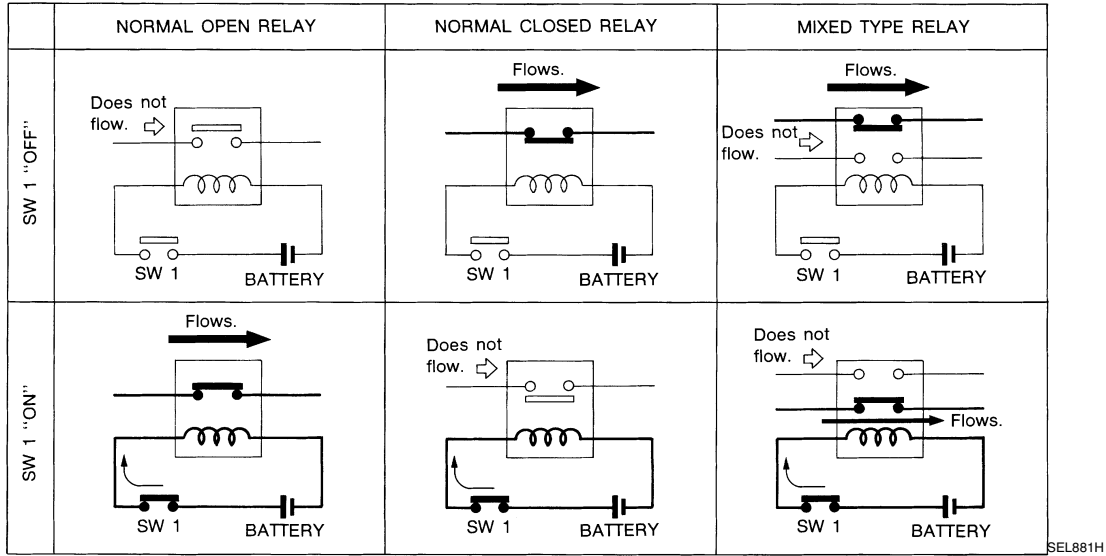
INFOID:000000011937433

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

COMPONENT PARTS

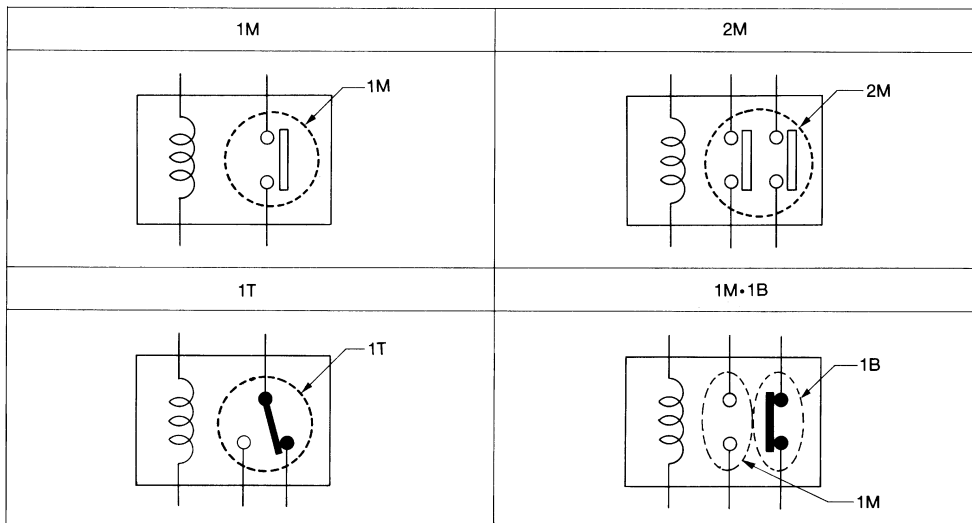
< SYSTEM DESCRIPTION >

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



TYPE OF STANDARDIZED RELAYS

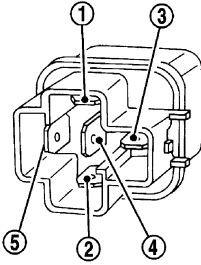
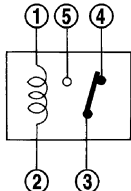
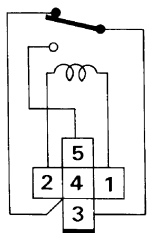
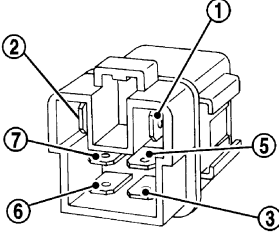
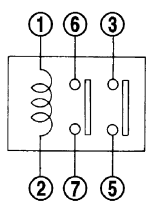
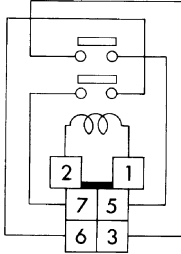
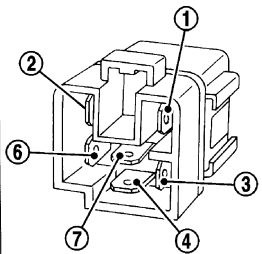
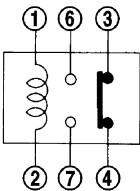
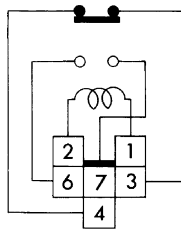
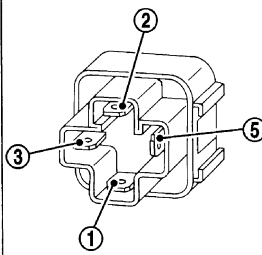
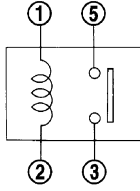
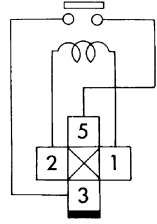
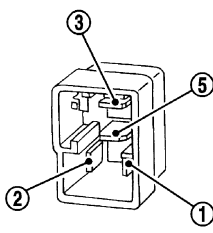
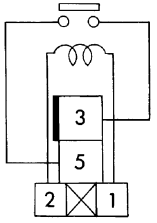
- 1M 1 Make
- 1T 1 Transfer
- 2M 2 Make
- 1M-1B 1 Make 1 Break



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

COMPONENT PARTS

< SYSTEM DESCRIPTION >

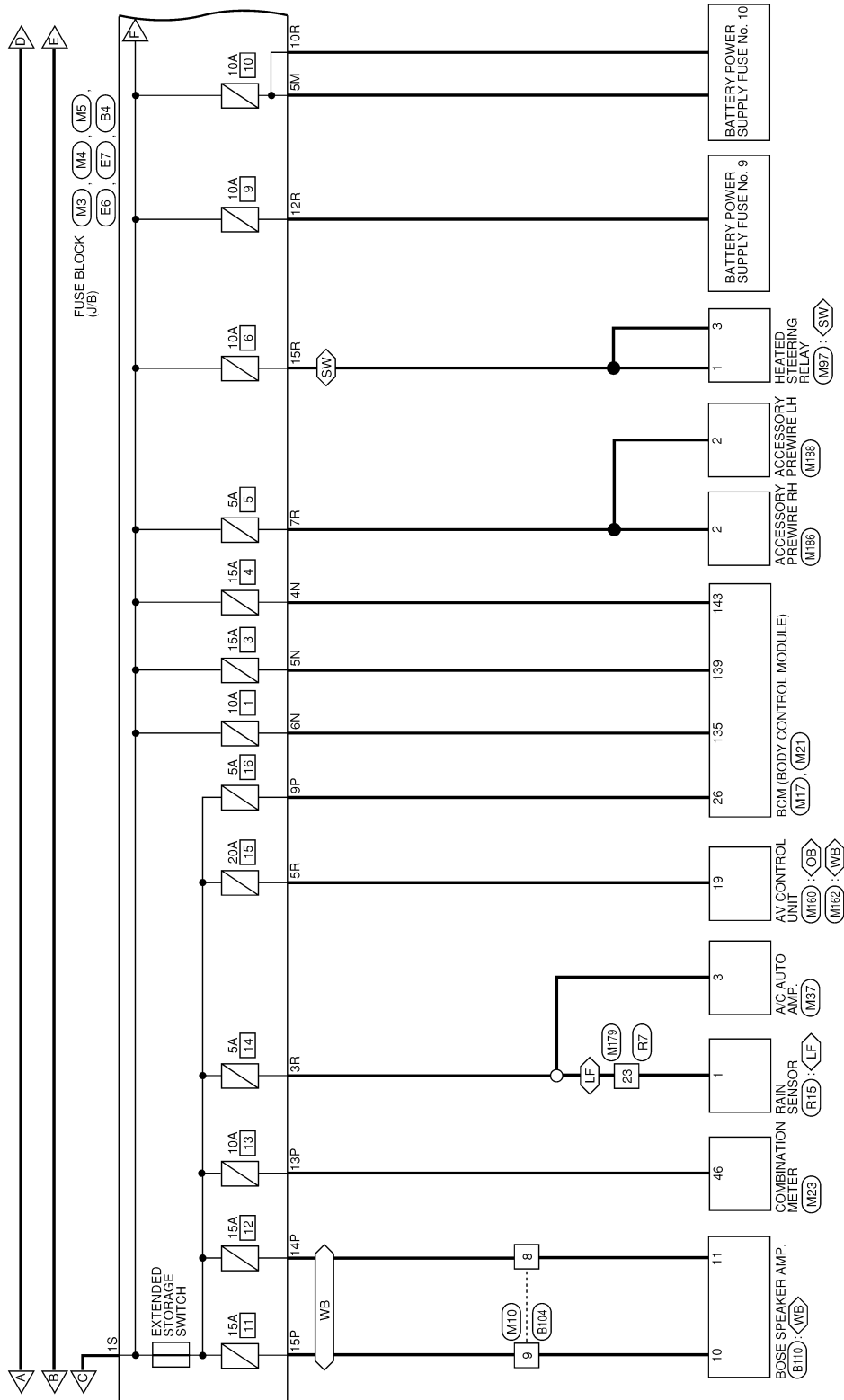
Type	Outer view	Circuit	Connector symbol and connection	Case color
1T				BLACK
2M				BROWN
1M*1B				GRAY
1M				BLUE
				

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

SEL188W

POWER SUPPLY ROUTING CIRCUIT

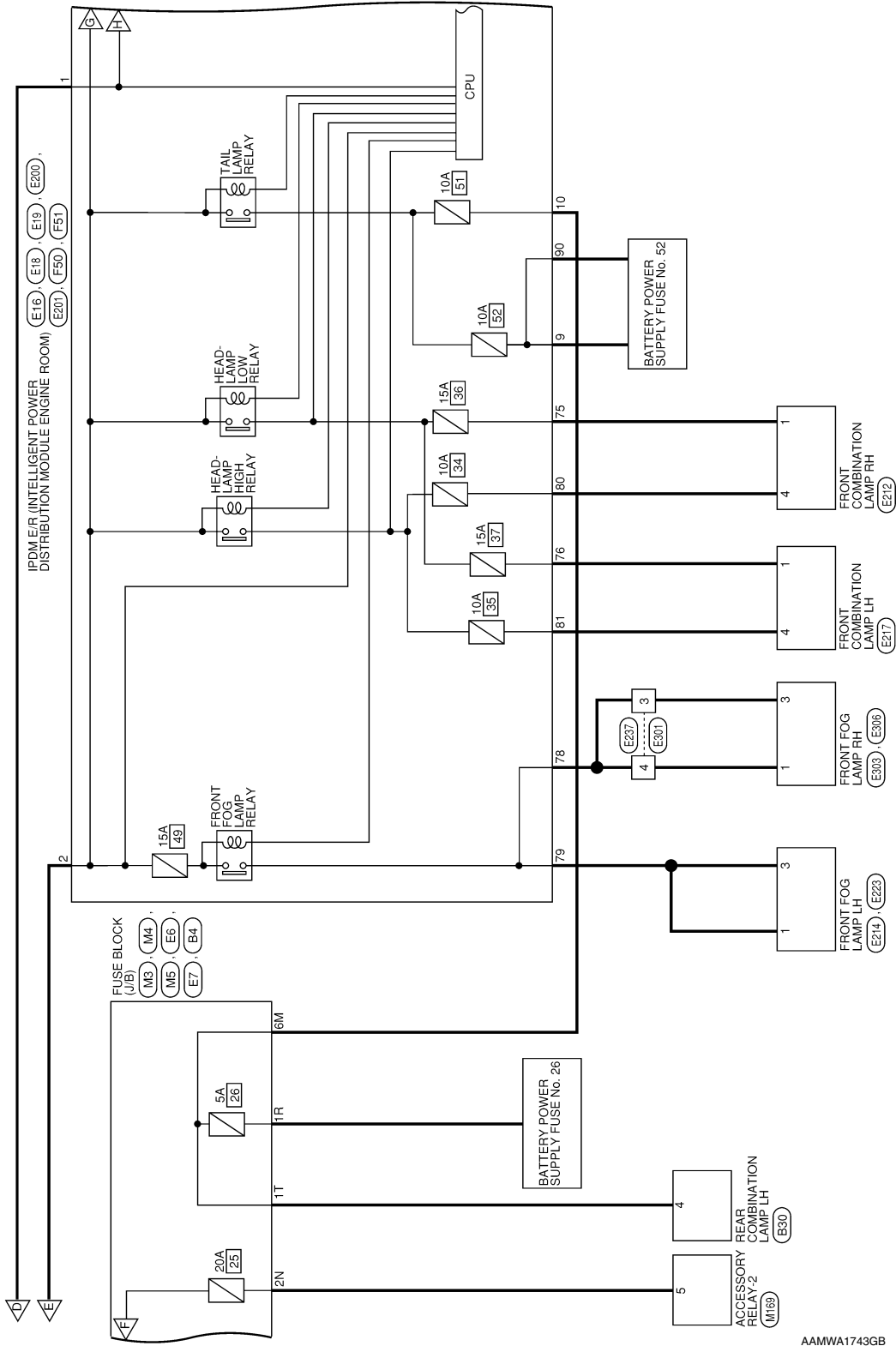
< WIRING DIAGRAM >



AAMWA1742GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

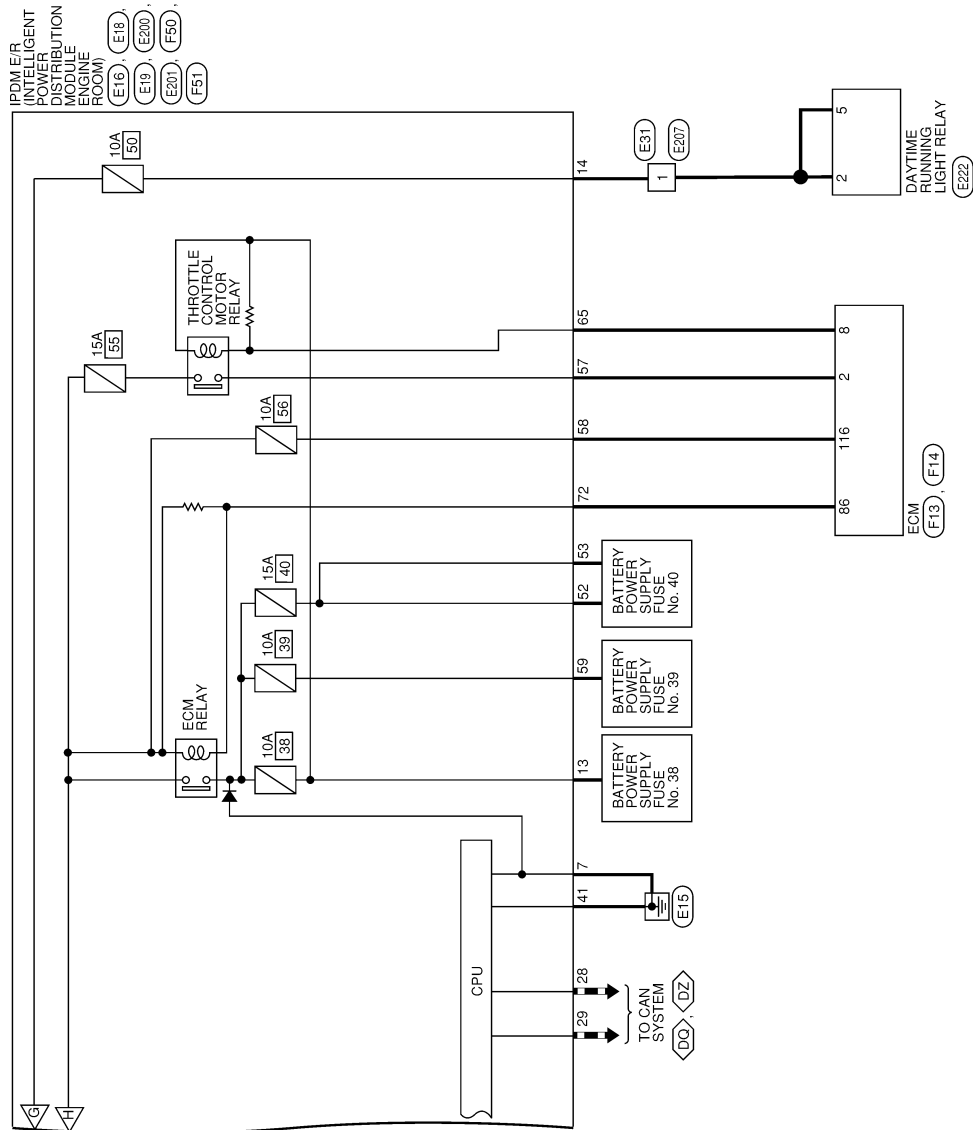


AAMWA1743GB

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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



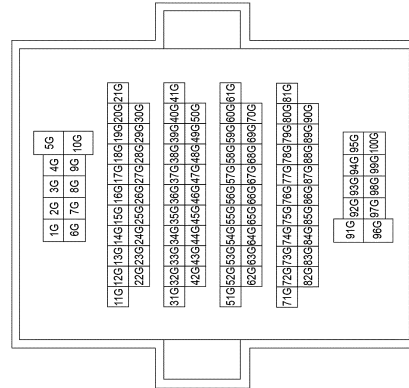
AAMWA1744GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

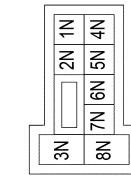
BATTERY POWER SUPPLY CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE



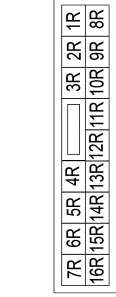
Terminal No.	Color of Wire	Signal Name
1G	R	-
3G	R	-
5G	W	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE



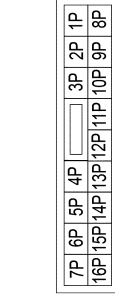
Terminal No.	Color of Wire	Signal Name
2N	L	-
4N	V	-
5N	SB	-
6N	LG	-

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN



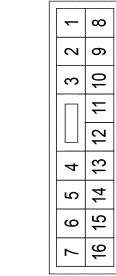
Terminal No.	Color of Wire	Signal Name
1R	R	-
3R	R	-
5R	G	-
7R	G	-
10R	BG	-
12R	W	-
15R	R	-

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE



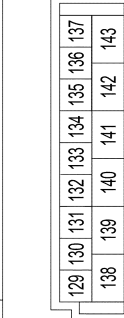
Terminal No.	Color of Wire	Signal Name
9P	Y	-
13P	G	-
14P	G	-
15P	SB	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	G	-
9	SB	-

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
135	LG	BAT BCM FUSE
139	SB	BAT FRONT DOOR
142	W	BAT-POWER F/L
143	V	BAT REAR DOOR

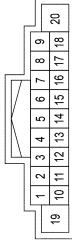
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

PG

POWER SUPPLY ROUTING CIRCUIT

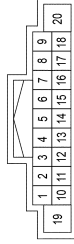
< WIRING DIAGRAM >

Connector No.	M160
Connector Name	AV CONTROL UNIT (WITHOUT BOSE AUDIO SYSTEM)
Connector Type	NH18FW-CS2
Connector Color	WHITE



Terminal No.	19	Color of Wire	G	Signal Name	BAT
--------------	----	---------------	---	-------------	-----

Connector No.	M162
Connector Name	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM)
Connector Type	NH18FW-CS2
Connector Color	WHITE



Terminal No.	19	Color of Wire	G	Signal Name	BAT
--------------	----	---------------	---	-------------	-----

Connector No.	M169
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	5	Color of Wire	L	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	M158
Connector Name	CLIMATE CONTROLLED SEAT RELAY
Connector Type	M08FBR-R-LC
Connector Color	BROWN



Terminal No.	5	Color of Wire	R	Signal Name	-
7	P				

Connector No.	M184
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC
Connector Color	WHITE



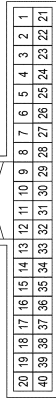
Terminal No.	1	Color of Wire	W	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	M197
Connector Name	HEATED STEERING RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



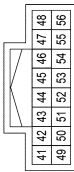
Terminal No.	1	Color of Wire	R	Signal Name	-
3	R				

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN



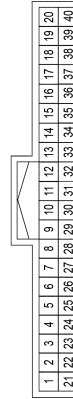
Terminal No.	26	Color of Wire	Y	Signal Name	SHORTING INPUT
--------------	----	---------------	---	-------------	----------------

Connector No.	M23
Connector Name	COMBINATION METER
Connector Type	TH16FW-NH
Connector Color	WHITE



Terminal No.	46	Color of Wire	G	Signal Name	POWER (BAT)
--------------	----	---------------	---	-------------	-------------

Connector No.	M37
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH
Connector Color	WHITE



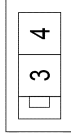
Terminal No.	3	Color of Wire	G	Signal Name	BATT
--------------	---	---------------	---	-------------	------

AAMIA3422GB

POWER SUPPLY ROUTING CIRCUIT

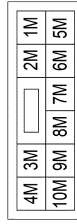
< WIRING DIAGRAM >

Connector No.	E5
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Type	L02FGY-MC
Connector Color	GRAY



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

Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
5M	P	-
6M	V	-

Connector No.	E7
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC
Connector Color	WHITE



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

Connector No.	M188
Connector Name	ACCESSORY PREWIRE LH
Connector Type	TH12MW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	G	-

Connector No.	E3
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
8	Y	-

Connector No.	E4
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Type	L02FBR-MC-B
Connector Color	BROWN



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

Connector No.	M179
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
23	G	-

Connector No.	M180
Connector Name	HEATED SEAT RELAY
Connector Type	M06FBR-R-LC
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
5	R	-
7	P	-

Connector No.	M186
Connector Name	ACCESSORY PREWIRE RH
Connector Type	TH12MW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2	G	-

AAMIA3423GB

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

PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

9	SB	TAIL RH
10	V	TAIL LH
13	L	ECM VB
14	Y	DTRL

Connector No.	E19
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH32FW-NH
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
28	P	CAN-L
29	L	CAN-H
41	B	S-GND

Connector No.	E26
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) (WITHOUT INTELLIGENT CRUISE CONTROL SYSTEM)
Connector Type	BEZ34FB-BHY2-BJ22-LH
Connector Color	BLACK



38	37	36	35	34	33	32	31	30	29	28	27	26	25
13	12	11	10	9	8	7	6	5	4	3	2	1	

Terminal No.	Color of Wire	Signal Name
1	W	UB MR
25	R	UB VR

Connector No.	E16
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC
Connector Color	BLACK



1	2
---	---

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

Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M04FW-LC
Connector Color	WHITE



3	4
5	6

Terminal No.	Color of Wire	Signal Name
3	G	F/L IGNSW

Connector No.	E18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FW-CS
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
7	B	P-GND

Connector No.	E8
Connector Name	FUSE BLOCK (J/B)
Connector Type	M01FW-LC
Connector Color	WHITE



1L

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

Connector No.	E11
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS
Connector Color	BROWN



1	2	3		
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name
7	L	-

Connector No.	E12
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC
Connector Color	WHITE



1	2	3
4	5	6

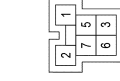
Terminal No.	Color of Wire	Signal Name
3	BR	-

AAMIA3424GB

POWER SUPPLY ROUTING CIRCUIT

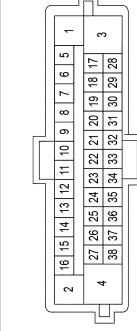
< WIRING DIAGRAM >

Connector No.	E43
Connector Name	COOLING FAN RELAY-3
Connector Type	M06FBR-R-LC
Connector Color	BROWN



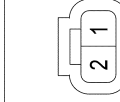
Terminal No.	5	Color of Wire	W	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	E53
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) (WITH INTELLIGENT CRUISE CONTROL SYSTEM)
Connector Type	SAZ34FB-HS2-SJZ2-UH
Connector Color	BLACK



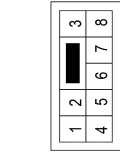
Terminal No.	1	Color of Wire	R	Signal Name	UB.VR
	3	Color of Wire	W	Signal Name	UB.MR

Connector No.	E63
Connector Name	POWER STEERING CONTROL MODULE
Connector Type	8200500194
Connector Color	BLACK



Terminal No.	1	Color of Wire	W	Signal Name	BATTERY (+)
--------------	---	---------------	---	-------------	-------------

Connector No.	E31
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS
Connector Color	WHITE



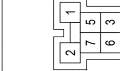
Terminal No.	1	Color of Wire	Y	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	E32
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Type	LOT1FB-MC
Connector Color	BLACK



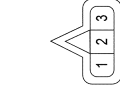
Terminal No.	5	Color of Wire	W	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	E42
Connector Name	COOLING FAN RELAY-2
Connector Type	M06FBR-R-LC
Connector Color	BROWN



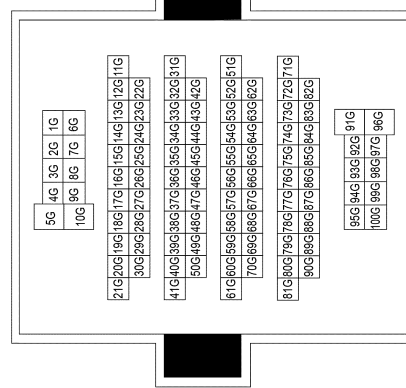
Terminal No.	5	Color of Wire	W	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	E28
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	FK03FBR
Connector Color	BROWN



Terminal No.	1	Color of Wire	LG	Signal Name	-
--------------	---	---------------	----	-------------	---

Connector No.	E30
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS116-TM4
Connector Color	WHITE



Terminal No.	1G	Color of Wire	LG	Signal Name	-
	3G	Color of Wire	G	Signal Name	-
	5G	Color of Wire	P	Signal Name	-

AAMIA3425GB

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



POWER SUPPLY ROUTING CIRCUIT

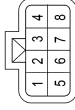
< WIRING DIAGRAM >

Connector No.	E214
Connector Name	FRONT FOG LAMP LH
Connector Type	FHZ02FB
Connector Color	BLACK



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

Connector No.	E217
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FGY-PR
Connector Color	GRAY



Terminal No.	1	Color of Wire	P	Signal Name	-
	4		SB		-

Connector No.	E220
Connector Name	COOLING FAN MOTOR-1
Connector Type	RS04GY-PR
Connector Color	GRAY



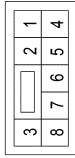
Terminal No.	1	Color of Wire	BR	Signal Name	-
	2		BR		-

Connector No.	E203
Connector Name	WIRE TO WIRE
Connector Type	M08FW-LC
Connector Color	WHITE



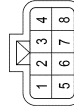
Terminal No.	3	Color of Wire	BR	Signal Name	-
--------------	---	---------------	----	-------------	---

Connector No.	E207
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS
Connector Color	WHITE



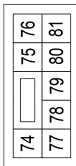
Terminal No.	1	Color of Wire	Y	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	E212
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FGY-PR
Connector Color	GRAY



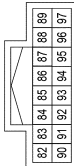
Terminal No.	1	Color of Wire	R	Signal Name	-
	4		L		-

Connector No.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE



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

Connector No.	E201
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH16FW-NH
Connector Color	WHITE



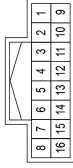
Terminal No.	Color of Wire	Signal Name
90	Y	PARKING

AAMIA3426GB

POWER SUPPLY ROUTING CIRCUIT

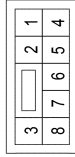
< WIRING DIAGRAM >

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE



Terminal No.	8	Color of Wire	Y	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	F2
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS
Connector Color	BROWN



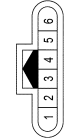
Terminal No.	7	Color of Wire	L	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	F4
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Type	24340_JA04D
Connector Color	-



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

Connector No.	E301
Connector Name	WIRE TO WIRE
Connector Type	RH06MB
Connector Color	BLACK



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

Connector No.	E303
Connector Name	FRONT FOG LAMP RH
Connector Type	FHZ02FB
Connector Color	BLACK



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

Connector No.	E306
Connector Name	FRONT FOG LAMP RH
Connector Type	FHZ02FB
Connector Color	BLACK



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

Connector No.	E222
Connector Name	DAYTIME RUNNING LIGHT RELAY
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



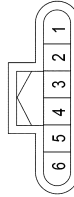
Terminal No.	2	Color of Wire	Y	Signal Name	-
5	Y				

Connector No.	E223
Connector Name	FRONT FOG LAMP LH
Connector Type	FHZ02FB
Connector Color	BLACK



Terminal No.	3	Color of Wire	G	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	E237
Connector Name	WIRE TO WIRE
Connector Type	RH06FB
Connector Color	BLACK



Terminal No.	3	Color of Wire	BG	Signal Name	-
4	BG				

AAMIA3427GB

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

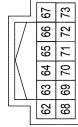
PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

53	G	O2SENS #1
57	R	ETC
58	SB	ECM BAT
59	L	ENG SOL

Connector No.	F51
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH12FW-NH
Connector Color	WHITE



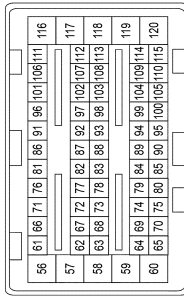
Terminal No.	Color of Wire	Signal Name
65	BR	ETC-RLY CONT
72	G	SSOFF

Connector No.	F70
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Type	-
Connector Color	-



Terminal No.	Color of Wire	Signal Name
7	R	-

Connector No.	F14
Connector Name	ECM
Connector Type	MAB35FB-MEB10-LH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
86	G	ECM RELAY (SELF SHUT-OFF)
116	SB	POWER SUPPLY FOR ECM (BACK-UP)

Connector No.	F27
Connector Name	STARTER MOTOR
Connector Type	24340_JA06A
Connector Color	-



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

Connector No.	F50
Connector Name	IPDM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS10FW-CS
Connector Color	WHITE



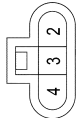
Terminal No.	Color of Wire	Signal Name
52	W	O2SENS #2

Connector No.	F6
Connector Name	GENERATOR
Connector Type	24340_JA09A
Connector Color	-



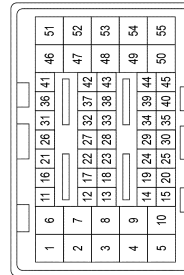
Terminal No.	Color of Wire	Signal Name
1	B/R	-

Connector No.	F7
Connector Name	GENERATOR
Connector Type	HS03FB
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
3	Y	-

Connector No.	F13
Connector Name	ECM
Connector Type	MAB35FB-MEB20-LH
Connector Color	BLACK

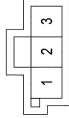


Terminal No.	Color of Wire	Signal Name
2	R	THROTTLE CONTROL MOTOR POWER SUPPLY
8	BR	THROTTLE CONTROL MOTOR RELAY

POWER SUPPLY ROUTING CIRCUIT

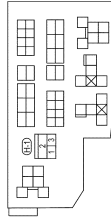
< WIRING DIAGRAM >

Connector No.	R15
Connector Name	RAIN SENSOR
Connector Type	AAB03FB-X
Connector Color	BLACK



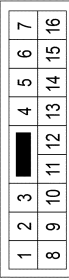
Terminal No.	1	Signal Name	-
Color of Wire	SB		

Connector No.	H-1
Connector Name	FUSE, FUSIBLE LINK AND RELAY BOX (HORN RELAY)
Connector Type	24381-7990A
Connector Color	-



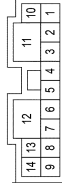
Terminal No.	2	Signal Name	-
Color of Wire	W		

Connector No.	B104
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE



Terminal No.	8	Signal Name	-
Color of Wire	G		
	9	SB	

Connector No.	B110
Connector Name	BOSE SPEAKER AMP.
Connector Type	SGA12FBR-SJA2
Connector Color	BROWN



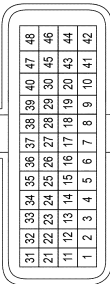
Terminal No.	10	Signal Name	-
Color of Wire	SB		
	11	G	

Connector No.	R7
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH
Connector Color	WHITE



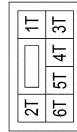
Terminal No.	23	Signal Name	-
Color of Wire	BR		

Connector No.	F89
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	RH40FB-RZ8-L-RH
Connector Color	BLACK



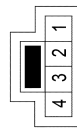
Terminal No.	45	Signal Name	BATT
Color of Wire	P		BATT
	46	P	

Connector No.	B4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS
Connector Color	WHITE



Terminal No.	1T	Signal Name	-
Color of Wire	V		

Connector No.	B30
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS04MMW-CS
Connector Color	WHITE



Terminal No.	4	Signal Name	-
Color of Wire	V		

AAMIA3429GB

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

PG

POWER SUPPLY ROUTING CIRCUIT

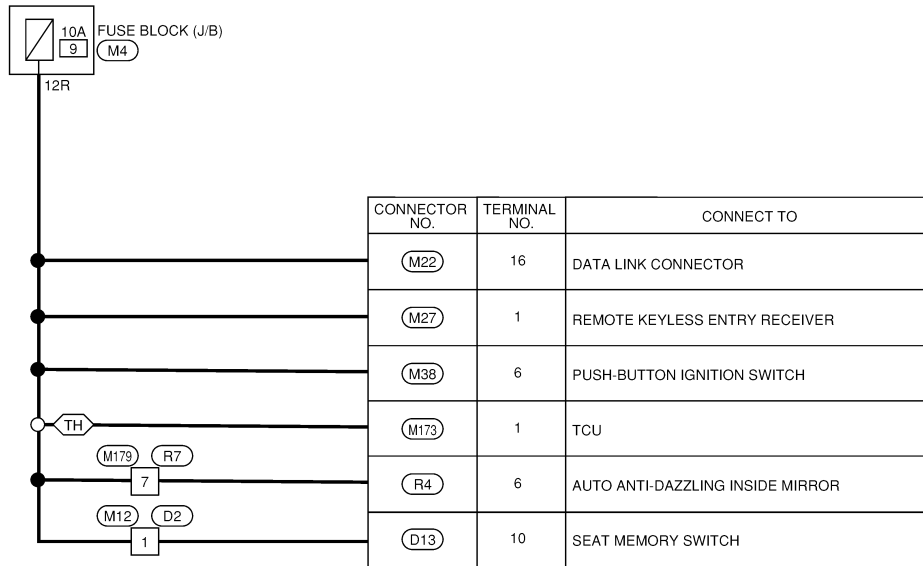
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 9 -

INFOID:000000012242323

BATTERY POWER SUPPLY FUSE No. 9

⬡TH⬡ : WITH TELEMATICS SYSTEM



AAMWA1745GB

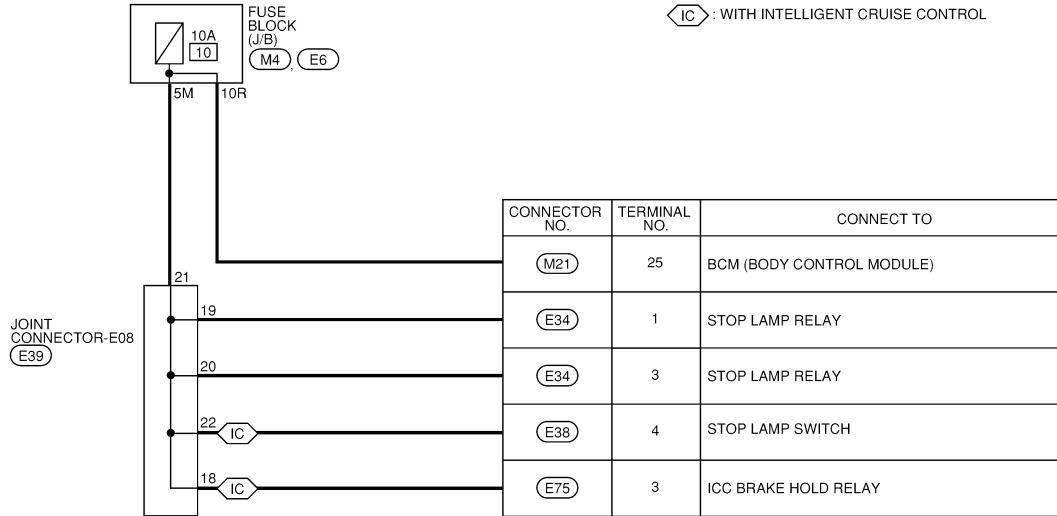
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 10 -

INFOID:000000012242324

BATTERY POWER SUPPLY FUSE No. 10



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

PG

AAMWA1746GB

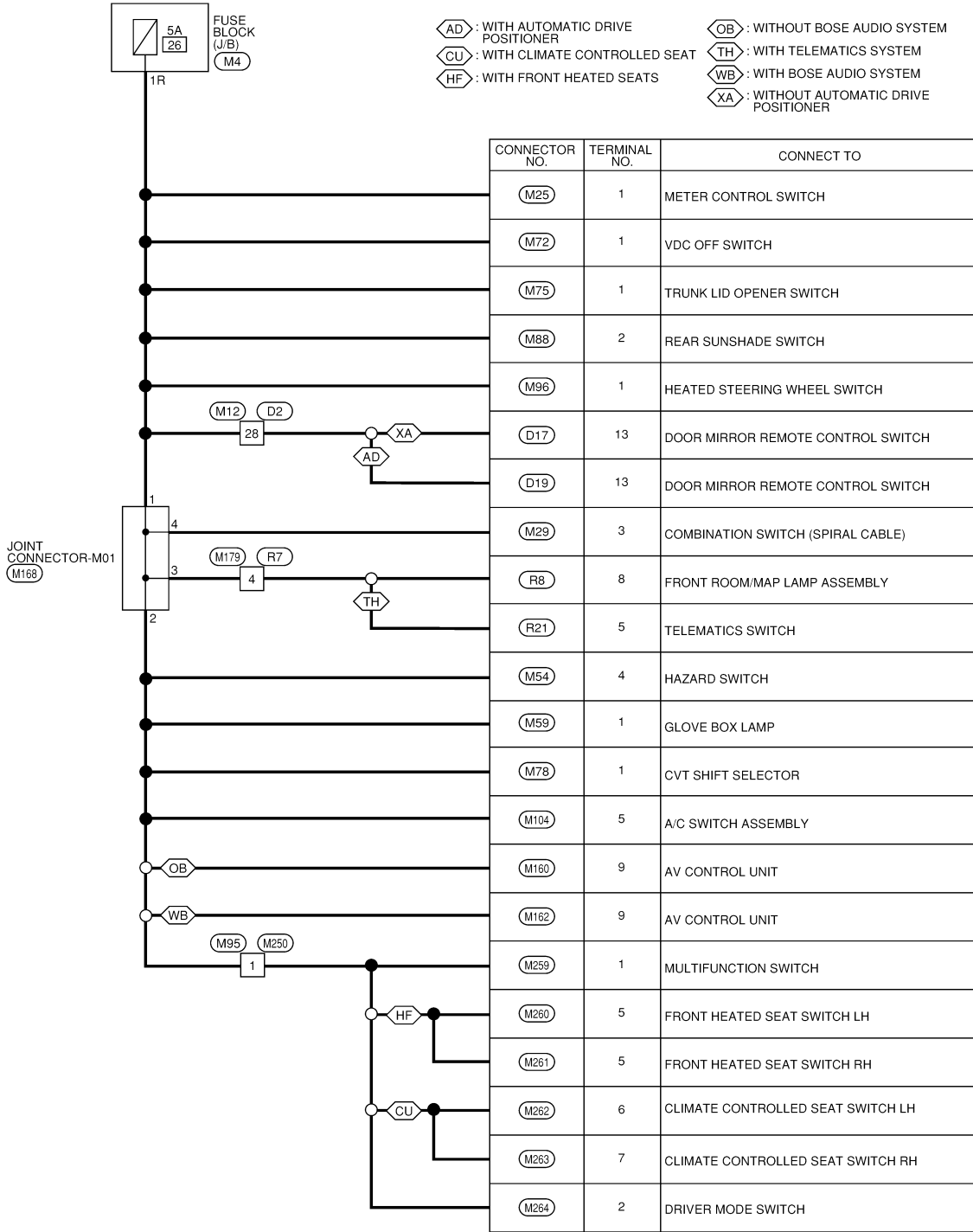
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 26 -

INFOID:000000012242325

BATTERY POWER SUPPLY FUSE No. 26



AAMWA1747GB

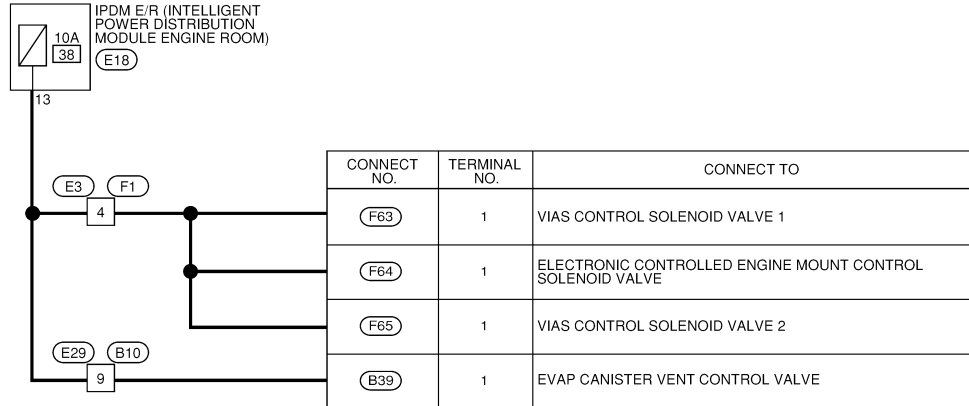
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 38 -

INFOID:000000012242326

BATTERY POWER SUPPLY FUSE No. 38



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

PG

AAMWA1748GB

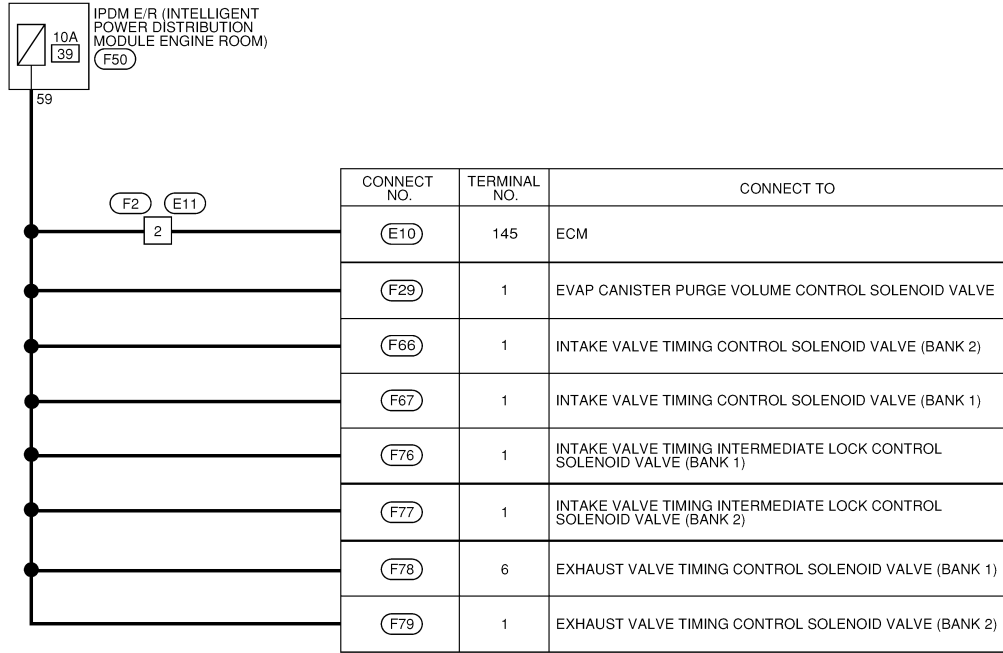
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 39 -

INFOID:000000012242327

BATTERY POWER SUPPLY FUSE No. 39



AAMWA1749GB

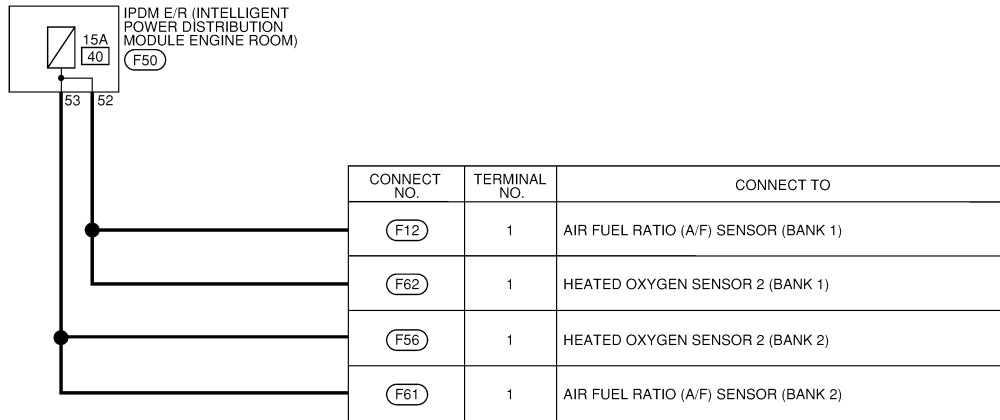
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 40 -

INFOID:000000012242328

BATTERY POWER SUPPLY FUSE No. 40



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

PG

AAMWA1750GB

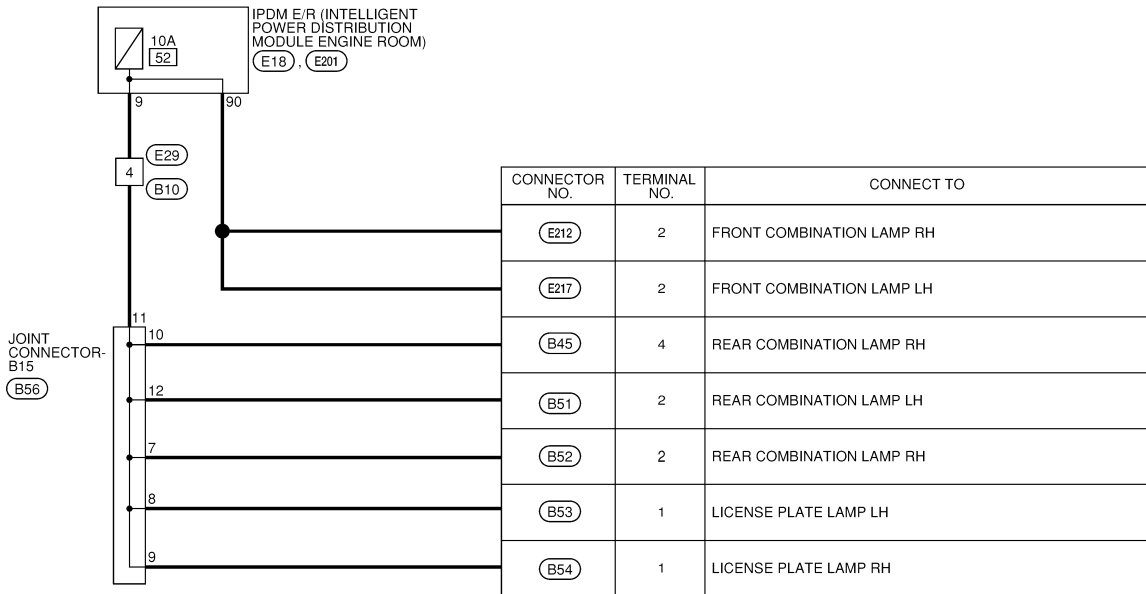
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 52 -

INFOID:000000012242329

BATTERY POWER SUPPLY FUSE No. 52



AAMWA1751GB

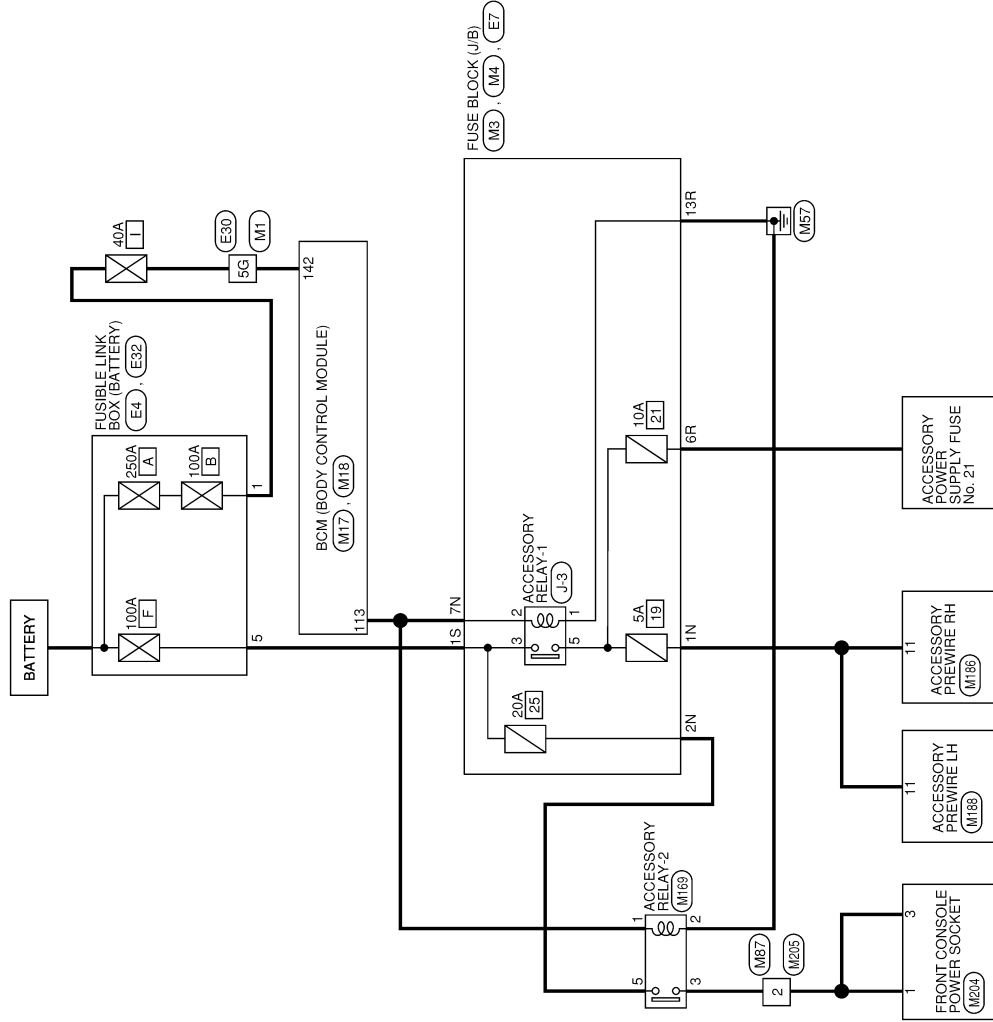
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:000000012242330

ACCESSORY POWER SUPPLY



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

PG

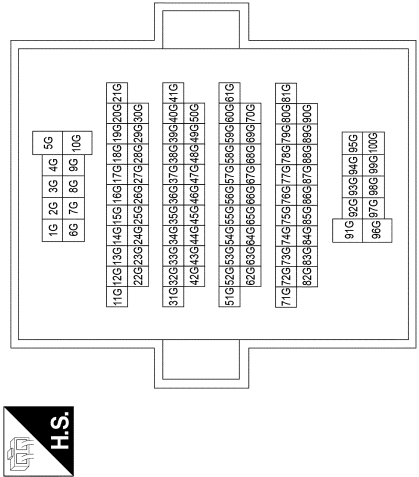
AAMWA1739GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

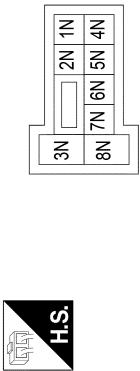
ACCESSORY POWER SUPPLY CONNECTORS

Connector No.	M1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CST16-TM4
Connector Color	WHITE



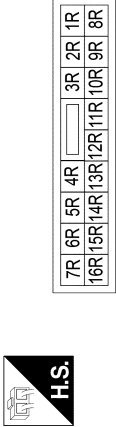
Terminal No.	5G	Color of Wire	W	Signal Name	-
--------------	----	---------------	---	-------------	---

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
Connector Color	WHITE



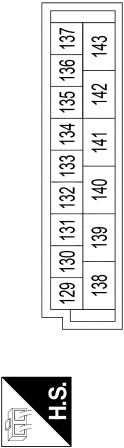
Terminal No.	1N	Color of Wire	BG	Signal Name	-
2N	L	-	-	-	-
7N	BR	-	-	-	-

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN



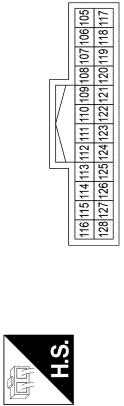
Terminal No.	6R	Color of Wire	P	Signal Name	-
13R	B	-	-	-	-

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE



Terminal No.	142	Color of Wire	W	Signal Name	BAT-POWER F/L
--------------	-----	---------------	---	-------------	---------------

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FB-NH
Connector Color	BLACK



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

Connector No.	M87
Connector Name	WIRE TO WIRE
Connector Type	NS06FW-CS
Connector Color	WHITE



Terminal No.	2	Color of Wire	LG	Signal Name	-
--------------	---	---------------	----	-------------	---

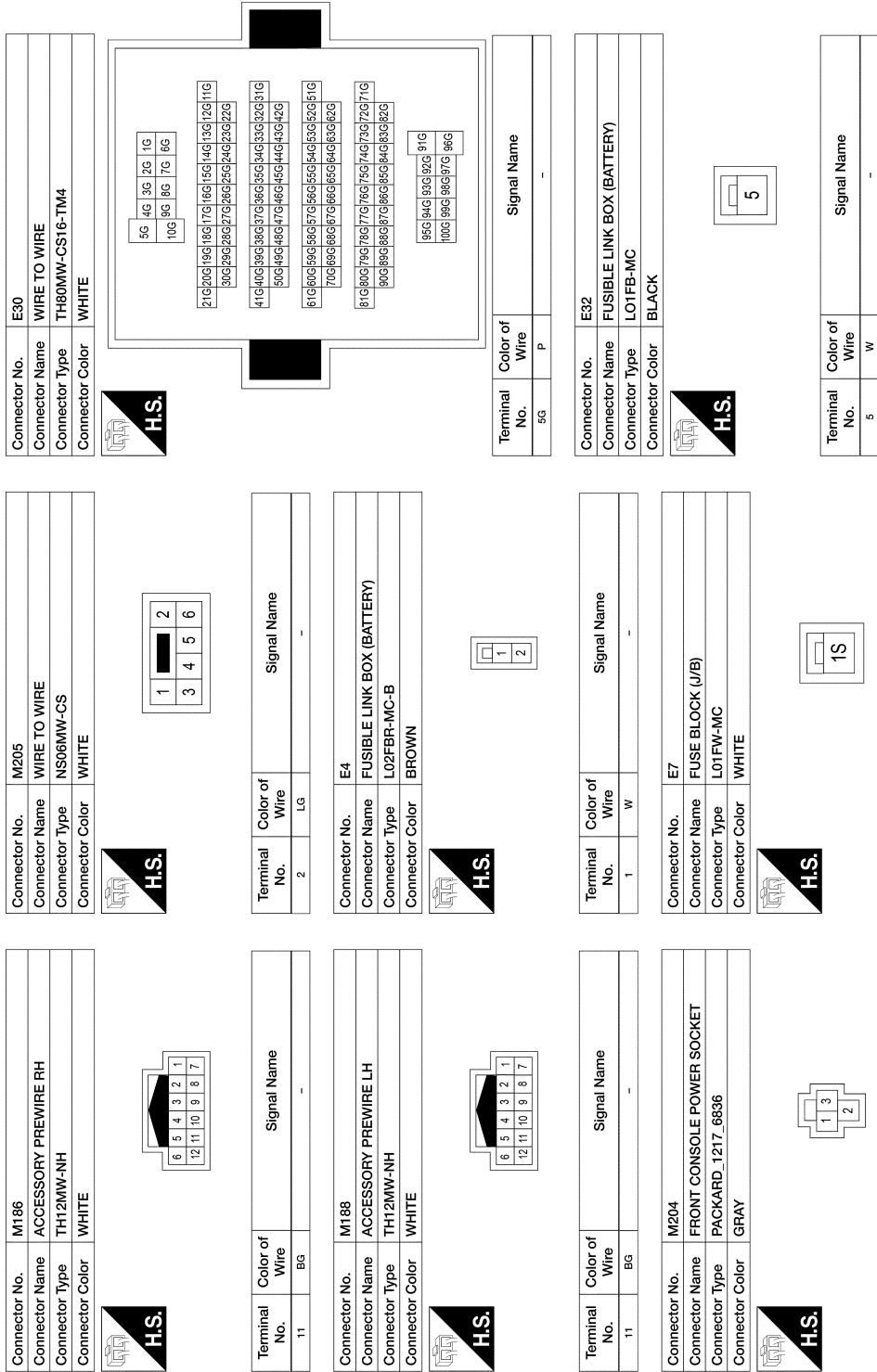
Connector No.	M169
Connector Name	ACCESSORY RELAY-2
Connector Type	MS02FL-M2-LC
Connector Color	BLUE



Terminal No.	1	Color of Wire	BR	Signal Name	-
2	B	-	-	-	-
3	LG	-	-	-	-
5	L	-	-	-	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

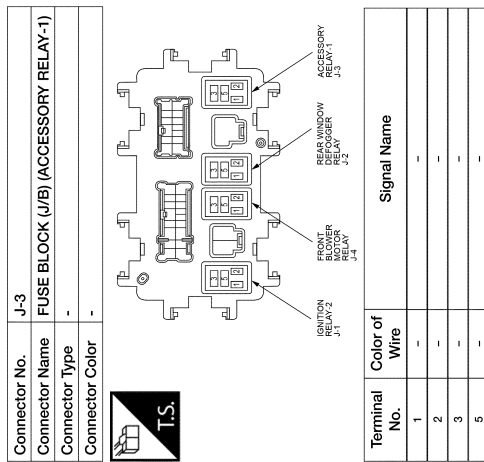


AAMIA3420GB

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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



AAMIA3450GB

POWER SUPPLY ROUTING CIRCUIT

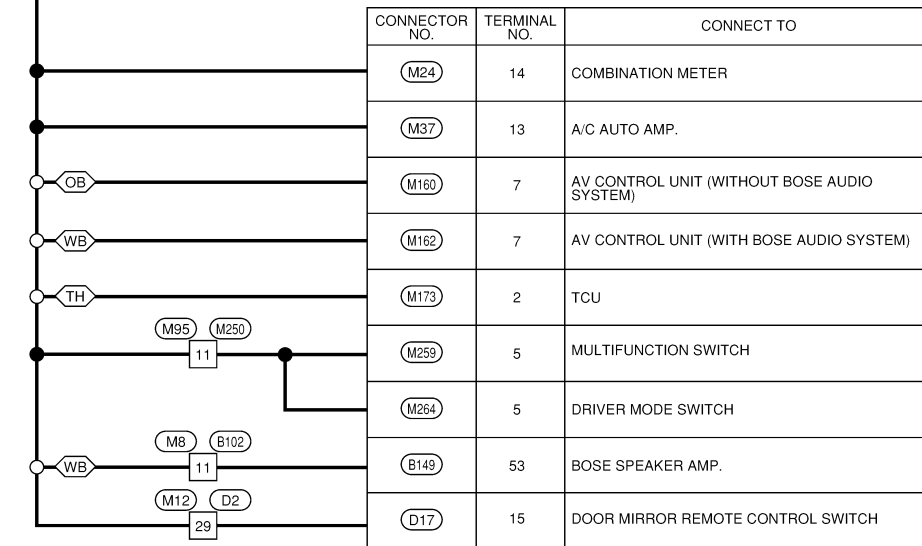
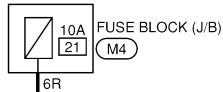
< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 21 -

INFOID:000000012242331

ACCESSORY POWER SUPPLY FUSE No. 21

OB : WITHOUT BOSE AUDIO SYSTEM
TH : WITH TELEMATICS SYSTEM
WB : WITH BOSE AUDIO SYSTEM



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

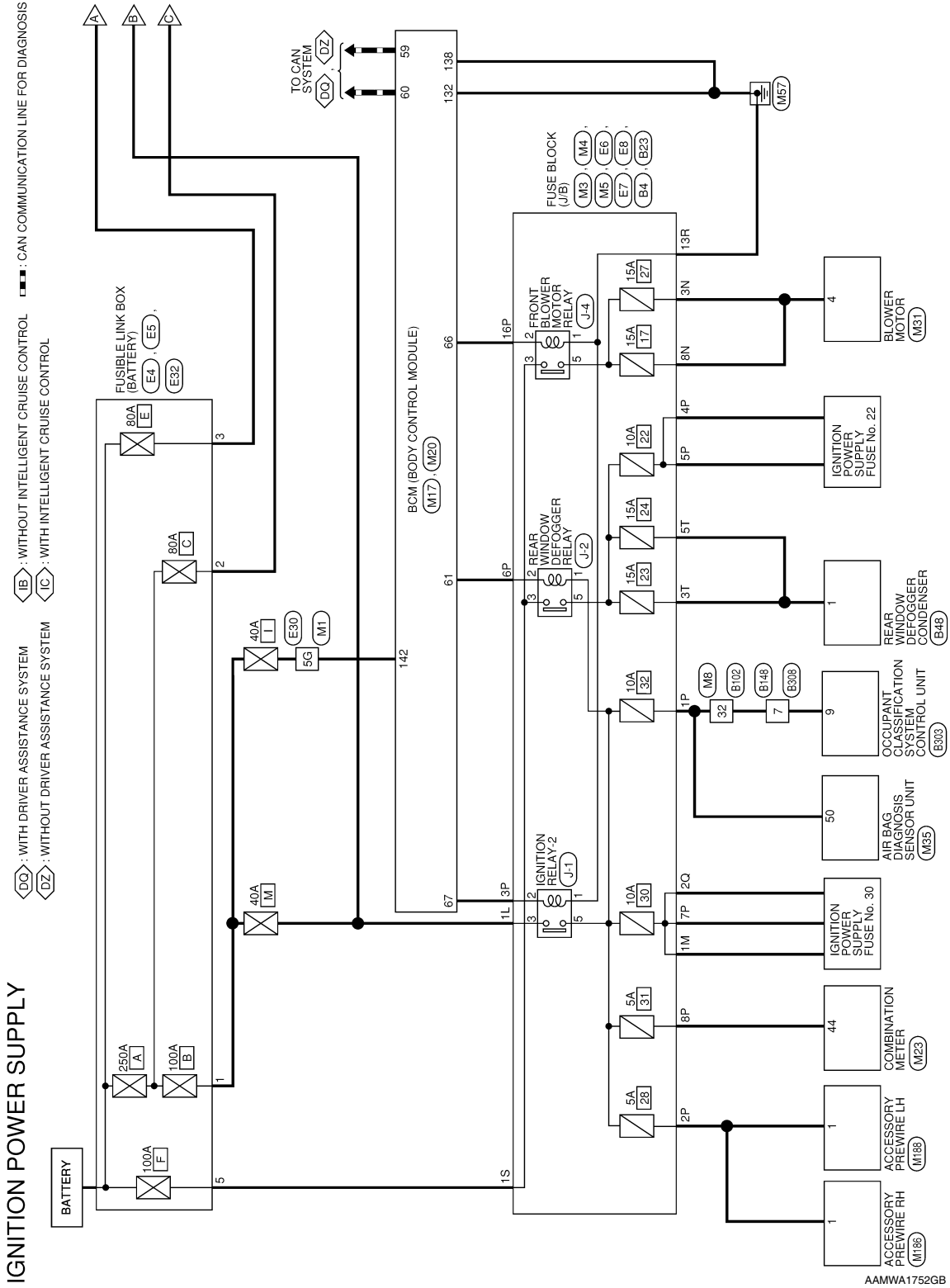
AAMWA1740GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

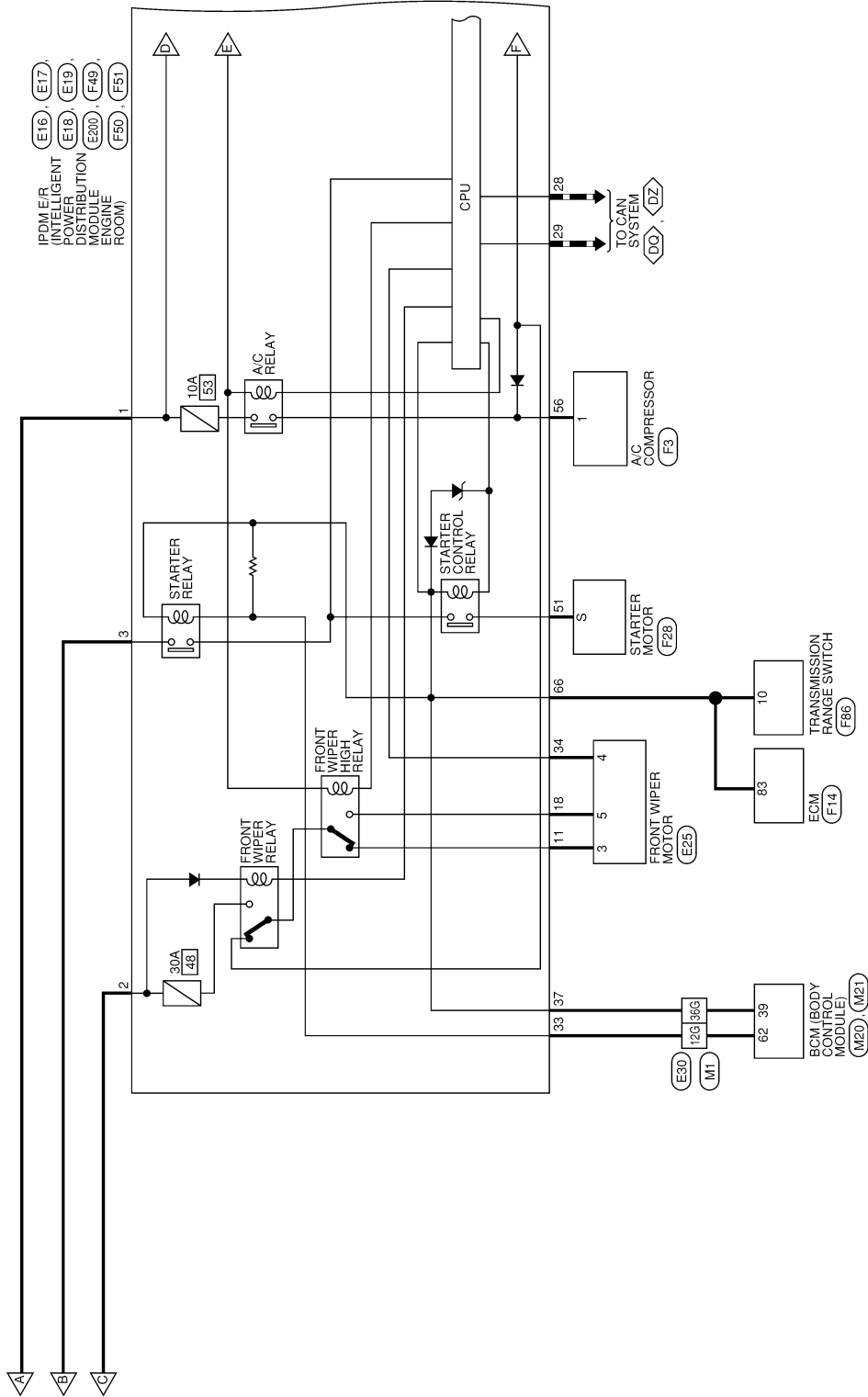
Wiring Diagram - IGNITION POWER SUPPLY -

INFOID:000000012242332



POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



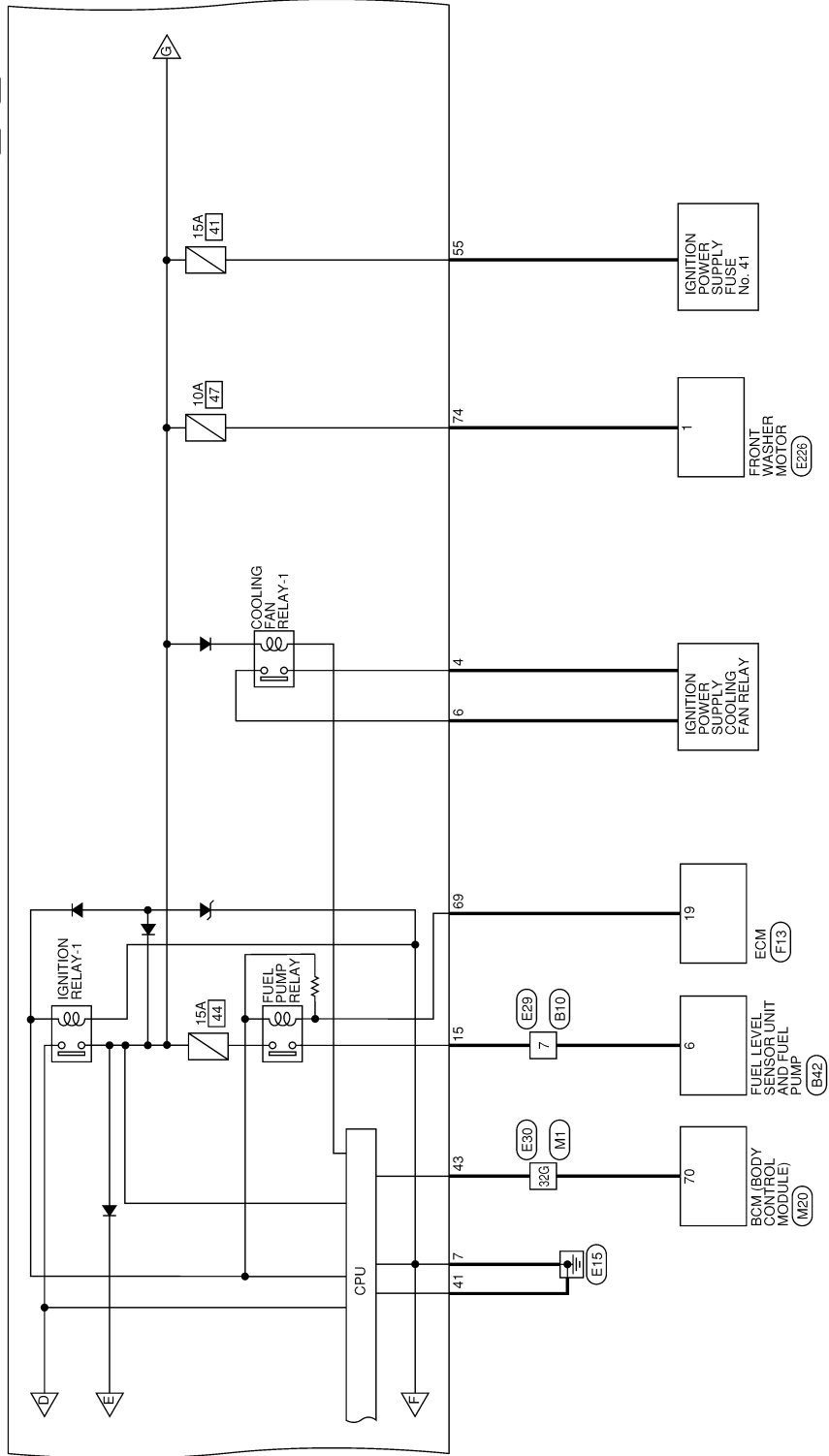
A
B
C
D
E
F
G
H
I
J
K
L
PG
N
O
P

AAMWA1753GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

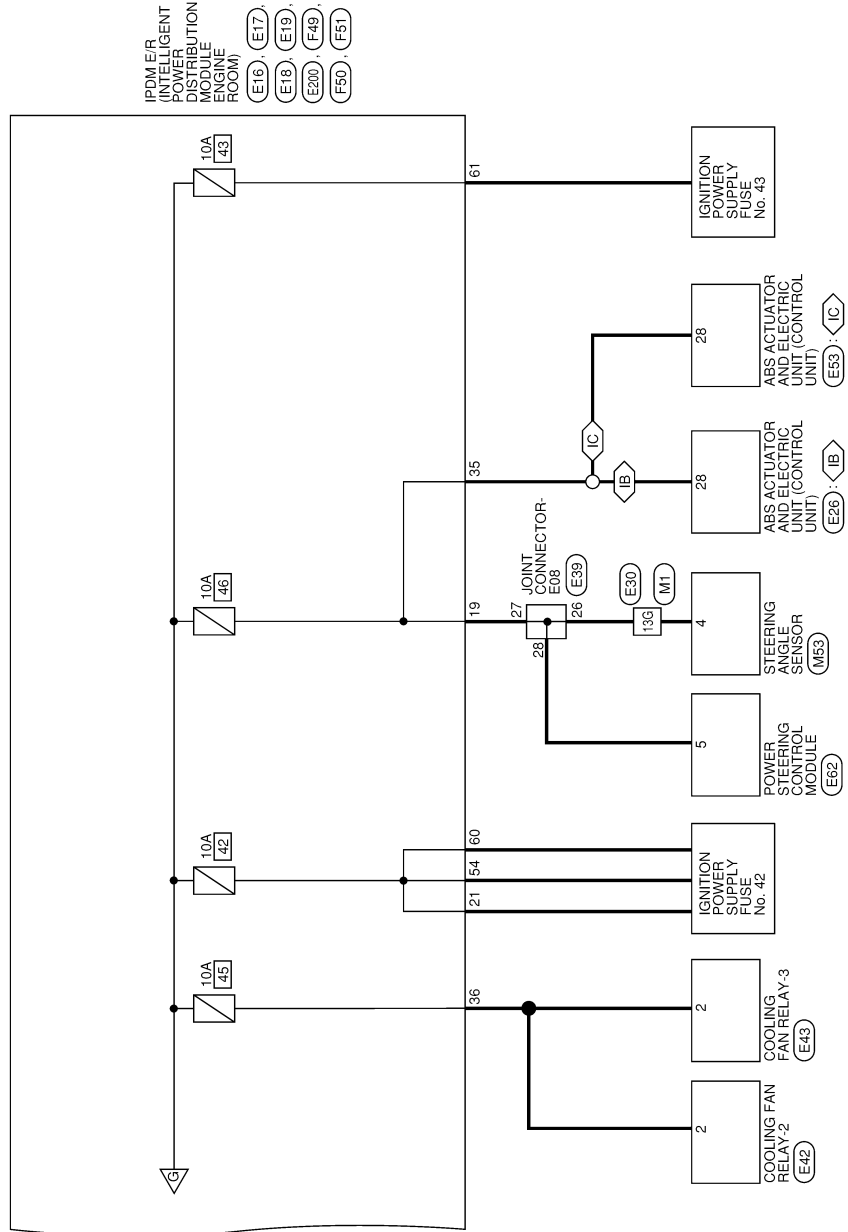
IPDM/ER (E16), (E17),
INTELLIGENT (E18), (E19),
POWER (E20), (E21),
DISTRIBUTION (E22), (E23),
MODULE (E24), (E25),
ENGINE (E26), (E27),
ROOM (E28), (E29),
(F49), (F50), (F51)



AAMWA1754GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



AAMWA1755GB

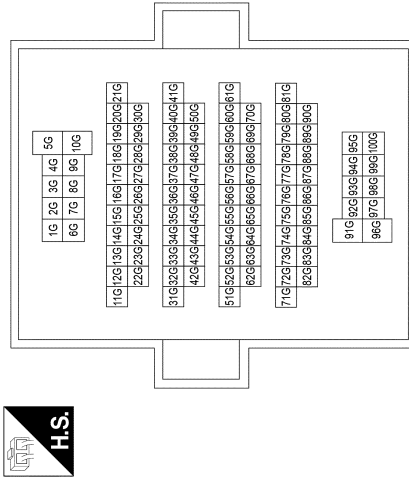
A
 B
 C
 D
 E
 F
 G
 H
 I
 J
 K
 L
 PG
 N
 O
 P

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

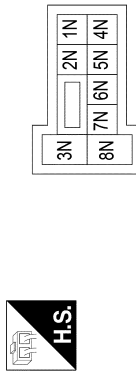
IGNITION POWER SUPPLY CONNECTORS

Connector No.	M1
Connector Name	WIRES TO WIRE
Connector Type	TH80FW-CS16-TM4
Connector Color	WHITE



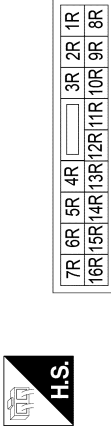
Terminal No.	Color of Wire	Signal Name
5G	W	-
12G	V	-
13G	G	-
32G	G	-
36G	L	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS96FW-M2
Connector Color	WHITE



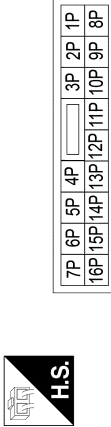
Terminal No.	Color of Wire	Signal Name
3N	W	-
8N	W	-

Connector No.	M4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS
Connector Color	BROWN



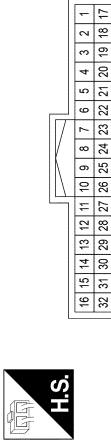
Terminal No.	Color of Wire	Signal Name
13R	B	-

Connector No.	M5
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS
Connector Color	WHITE



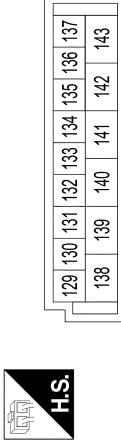
Terminal No.	Color of Wire	Signal Name
1P	P	-
2P	R	-
3P	W	-
4P	P	-
5P	BG	-
6P	Y	-
7P	BG	-
8P	BR	-
16P	R	-

Connector No.	M8
Connector Name	WIRES TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
32	P	-

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE

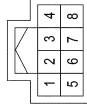


Terminal No.	Color of Wire	Signal Name
132	B	GND2
138	B	GND1
142	W	BAT-POWER P/L

POWER SUPPLY ROUTING CIRCUIT

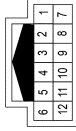
< WIRING DIAGRAM >

Connector No.	M53
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH
Connector Color	WHITE



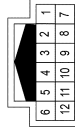
Terminal No.	4	Color of Wire	G	Signal Name	IGN
--------------	---	---------------	---	-------------	-----

Connector No.	M186
Connector Name	ACCESSORY PREWIRE RH
Connector Type	TH12MW-NH
Connector Color	WHITE



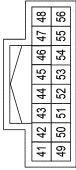
Terminal No.	1	Color of Wire	R	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	M188
Connector Name	ACCESSORY PREWIRE LH
Connector Type	TH12MW-NH
Connector Color	WHITE



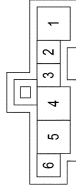
Terminal No.	1	Color of Wire	R	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	M23
Connector Name	COMBINATION METER
Connector Type	TH16FW-NH
Connector Color	WHITE



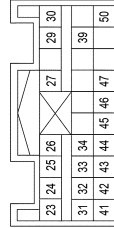
Terminal No.	44	Color of Wire	BR	Signal Name	POWER (IGN)
--------------	----	---------------	----	-------------	-------------

Connector No.	M31
Connector Name	BLOWER MOTOR
Connector Type	NS03FW-M3
Connector Color	WHITE



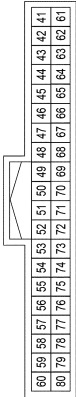
Terminal No.	4	Color of Wire	W	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	M35
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX
Connector Color	YELLOW



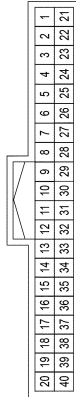
Terminal No.	50	Color of Wire	P	Signal Name	IGN
--------------	----	---------------	---	-------------	-----

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
59	P	CAN-L
60	L	CAN-H
61	Y	REAR DEFROGGER RELAY OUT
62	V	STARTER RELAY OUT
66	R	BLOWER FAN RELAY OUT
67	W	IGN ELEC RELAY OUT 2
70	G	IGN USM OUT 1

Connector No.	M21
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
39	L	SHIFT N/P

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

PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	E17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M04FW-LC
Connector Color	WHITE



3	4
5	6

Terminal No.	Color of Wire	Signal Name
3	G	F/L IGNSW
4	W	MOTOR FAN 1
6	R	F/L MOTOR FAN

Connector No.	E18
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FW-CS
Connector Color	WHITE



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

Terminal No.	Color of Wire	Signal Name
7	B	P-GND
11	G	FR WIPER LO
15	R	FUEL PUMP
18	P	FR WIPER HI

Connector No.	E7
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC
Connector Color	WHITE



1S

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

Connector No.	E8
Connector Name	FUSE BLOCK (J/B)
Connector Type	M01FW-LC
Connector Color	WHITE



1L

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

Connector No.	E16
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC
Connector Color	BLACK



1	2
---	---

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

Connector No.	E4
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Type	L02FBR-MC-B
Connector Color	BROWN



1	2
---	---

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

Connector No.	E5
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Type	L02FGY-MC
Connector Color	GRAY



3	4
---	---

Terminal No.	Color of Wire	Signal Name
3	R	-

Connector No.	E6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS
Connector Color	WHITE



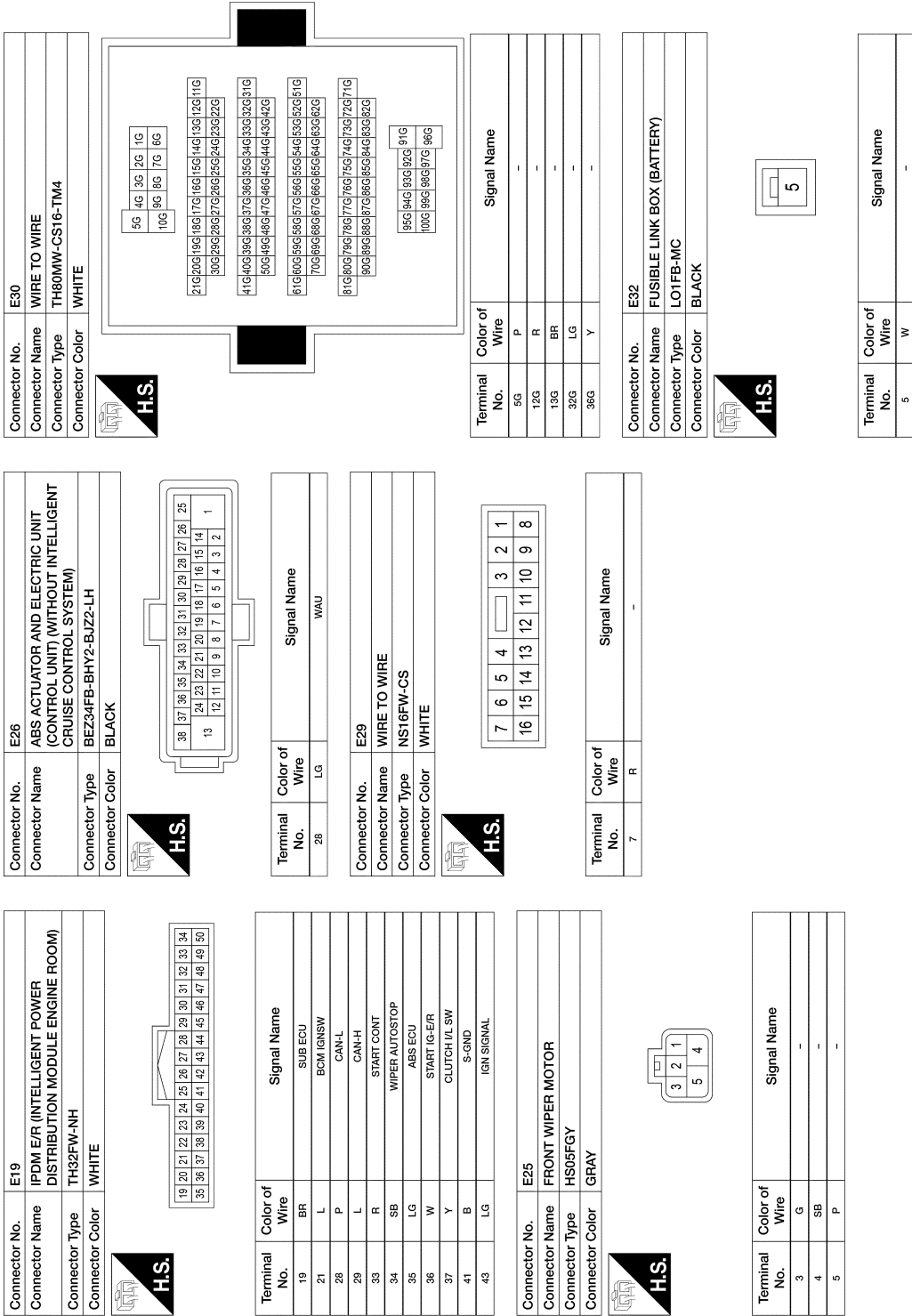
4M	3M	2M	1M
10M	9M	8M	7M
6M	5M		

Terminal No.	Color of Wire	Signal Name
1M	BG	-

AAMIA3486GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



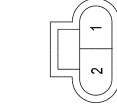
A
B
C
D
E
F
G
H
I
J
K
L
PG
N
O
P

AAMIA3487GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	E226
Connector Name	FRONT WASHER MOTOR
Connector Type	PEY02FB
Connector Color	BLACK



Terminal No.	1	Color of Wire	V	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	F3
Connector Name	A/C COMPRESSOR
Connector Type	RH02FB
Connector Color	BLACK



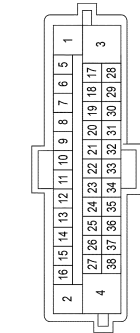
Terminal No.	1	Color of Wire	EG	Signal Name	-
--------------	---	---------------	----	-------------	---

Connector No.	F13
Connector Name	ECM
Connector Type	MAB39FB-MEB20-LH
Connector Color	BLACK



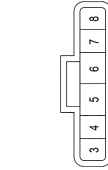
Terminal No.	19	Color of Wire	V	Signal Name	FUEL PUMP RELAY
--------------	----	---------------	---	-------------	-----------------

Connector No.	E63
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT) (WITH INTELLIGENT CRUISE CONTROL SYSTEM)
Connector Type	SAZ34FB-HS2-SJZ2-UH
Connector Color	BLACK



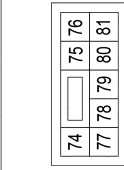
Terminal No.	28	Color of Wire	LG	Signal Name	WAW
--------------	----	---------------	----	-------------	-----

Connector No.	E62
Connector Name	POWER STEERING CONTROL MODULE
Connector Type	FEA04FB-FHA2-LC
Connector Color	BLACK



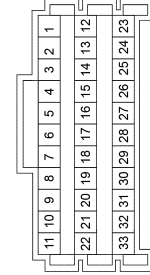
Terminal No.	5	Color of Wire	BR	Signal Name	IGN KEY S/W
--------------	---	---------------	----	-------------	-------------

Connector No.	E200
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE



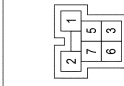
Terminal No.	74	Color of Wire	V	Signal Name	WASH MTR
--------------	----	---------------	---	-------------	----------

Connector No.	E39
Connector Name	JOINT CONNECTOR-E08
Connector Type	BJ30FW
Connector Color	WHITE



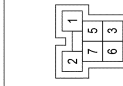
Terminal No.	26	Color of Wire	BR	Signal Name	-
27	BR	-	-	-	-
28	BR	-	-	-	-

Connector No.	E42
Connector Name	COOLING FAN RELAY-2
Connector Type	M06FBR-R-LC
Connector Color	BROWN



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

Connector No.	E43
Connector Name	COOLING FAN RELAY-3
Connector Type	M06FBR-R-LC
Connector Color	BROWN



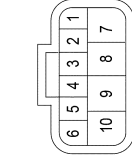
Terminal No.	2	Color of Wire	W	Signal Name	-
--------------	---	---------------	---	-------------	---

AAMIA3488GB

POWER SUPPLY ROUTING CIRCUIT

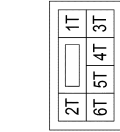
< WIRING DIAGRAM >

Connector No.	F86
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	YDX06FB-HS4
Connector Color	BLACK



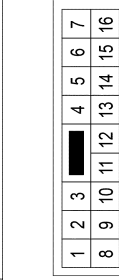
Terminal No.	Color of Wire	Signal Name
10	LG	-

Connector No.	B4
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS
Connector Color	WHITE



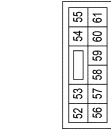
Terminal No.	Color of Wire	Signal Name
3T	Y	-
5T	Y	-

Connector No.	B10
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE



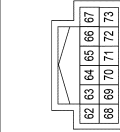
Terminal No.	Color of Wire	Signal Name
7	R	-

Connector No.	F50
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS10FW-CS
Connector Color	WHITE



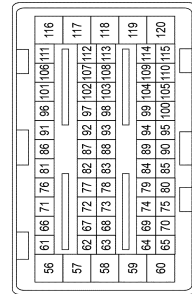
Terminal No.	Color of Wire	Signal Name
54	LG	INJECTOR #1
55	W	IGN COIL
56	BG	A/C COMP
60	V	INJECTOR #2
61	Y	AT ECU

Connector No.	F51
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
66	LG	NPSW
69	V	FPP

Connector No.	F14
Connector Name	ECM
Connector Type	MAB5FB-MEB10-LH
Connector Color	BLACK



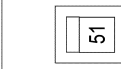
Terminal No.	Color of Wire	Signal Name
83	LG	PNP SIGNAL

Connector No.	F28
Connector Name	STARTER MOTOR
Connector Type	X01FGY
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
S	R	-

Connector No.	F49
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M01FB-LC
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
51	R	STARTER MOTOR

AAMIA3489GB

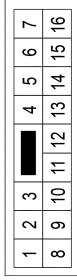
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P



POWER SUPPLY ROUTING CIRCUIT

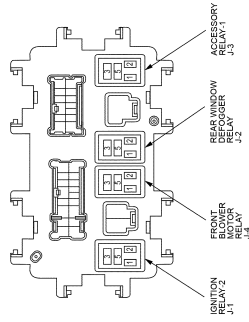
< WIRING DIAGRAM >

Connector No.	B308
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE



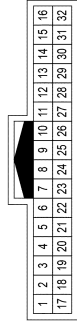
Terminal No.	7	Color of Wire	W	Signal Name	-
--------------	---	---------------	---	-------------	---

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



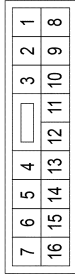
Terminal No.	1	Color of Wire	-	Signal Name	-
2	-	-	-	-	-
3	-	-	-	-	-
5	-	-	-	-	-

Connector No.	B102
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH
Connector Color	WHITE



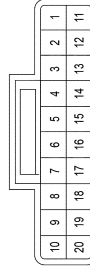
Terminal No.	32	Color of Wire	LG	Signal Name	-
--------------	----	---------------	----	-------------	---

Connector No.	B148
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE



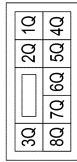
Terminal No.	7	Color of Wire	LG	Signal Name	-
--------------	---	---------------	----	-------------	---

Connector No.	B303
Connector Name	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
Connector Type	HU16MB-X
Connector Color	BLACK



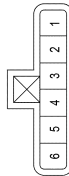
Terminal No.	9	Color of Wire	W	Signal Name	IGN
--------------	---	---------------	---	-------------	-----

Connector No.	B23
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-CS
Connector Color	WHITE



Terminal No.	2Q	Color of Wire	BG	Signal Name	-
--------------	----	---------------	----	-------------	---

Connector No.	B42
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
Connector Type	E06FGY-RS
Connector Color	GRAY



Terminal No.	6	Color of Wire	R	Signal Name	-
--------------	---	---------------	---	-------------	---

Connector No.	B48
Connector Name	REAR WINDOW DEFOGGER CONDENSER
Connector Type	M01FW-LC
Connector Color	WHITE



Terminal No.	1	Color of Wire	Y	Signal Name	-
--------------	---	---------------	---	-------------	---

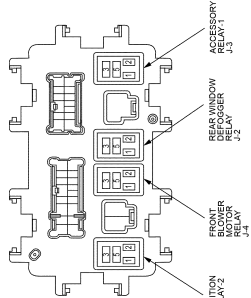
AAMIA3490GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

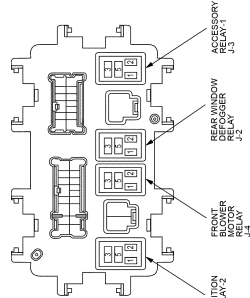
A
B
C
D
E
F
G
H
I
J
K
L
PG
N
O
P

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



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

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



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

AAMIA3491GB

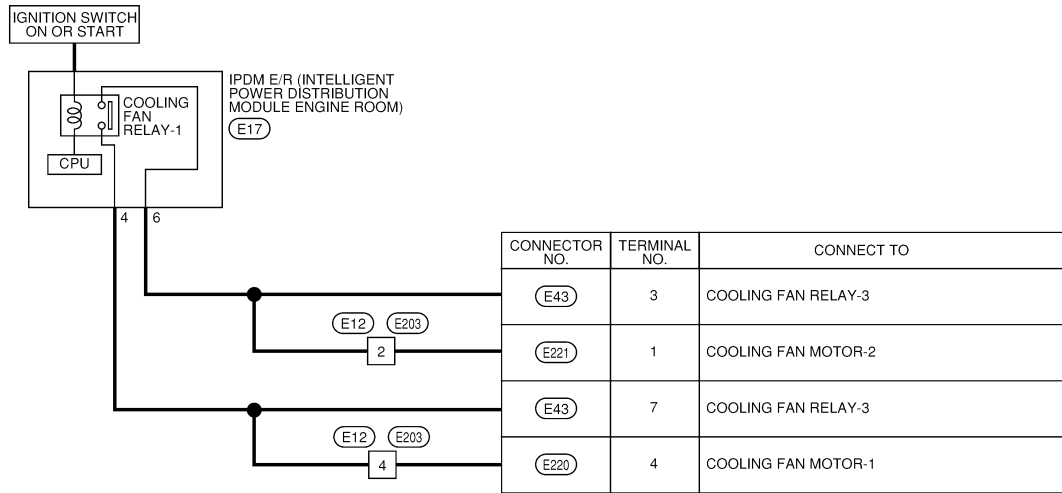
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY COOLING FAN RELAY

INFOID:000000012242333

IGNITION POWER SUPPLY COOLING FAN RELAY



AAMWA1784GB

POWER SUPPLY ROUTING CIRCUIT

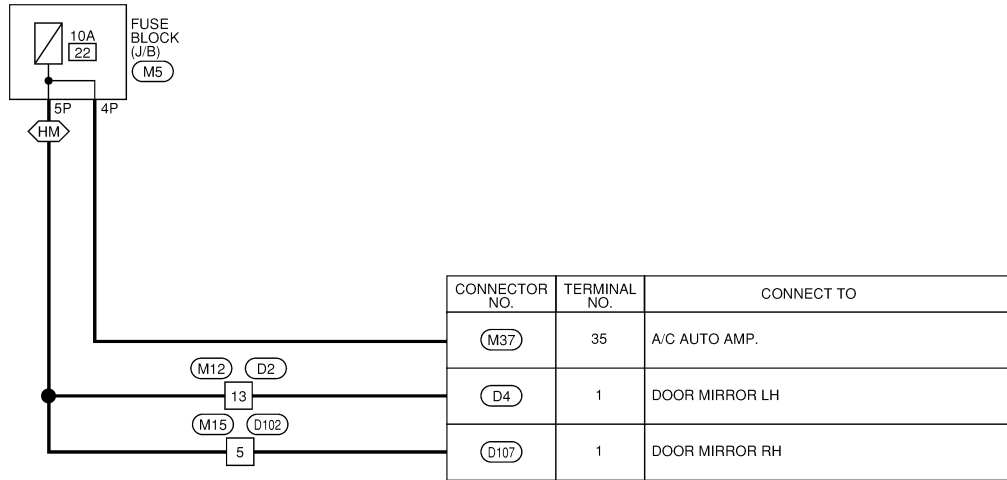
< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 22

INFOID:000000012242334

IGNITION POWER SUPPLY FUSE No. 22

HM : WITH HEATED MIRRORS



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

PG

AAMWA1756GB

POWER SUPPLY ROUTING CIRCUIT

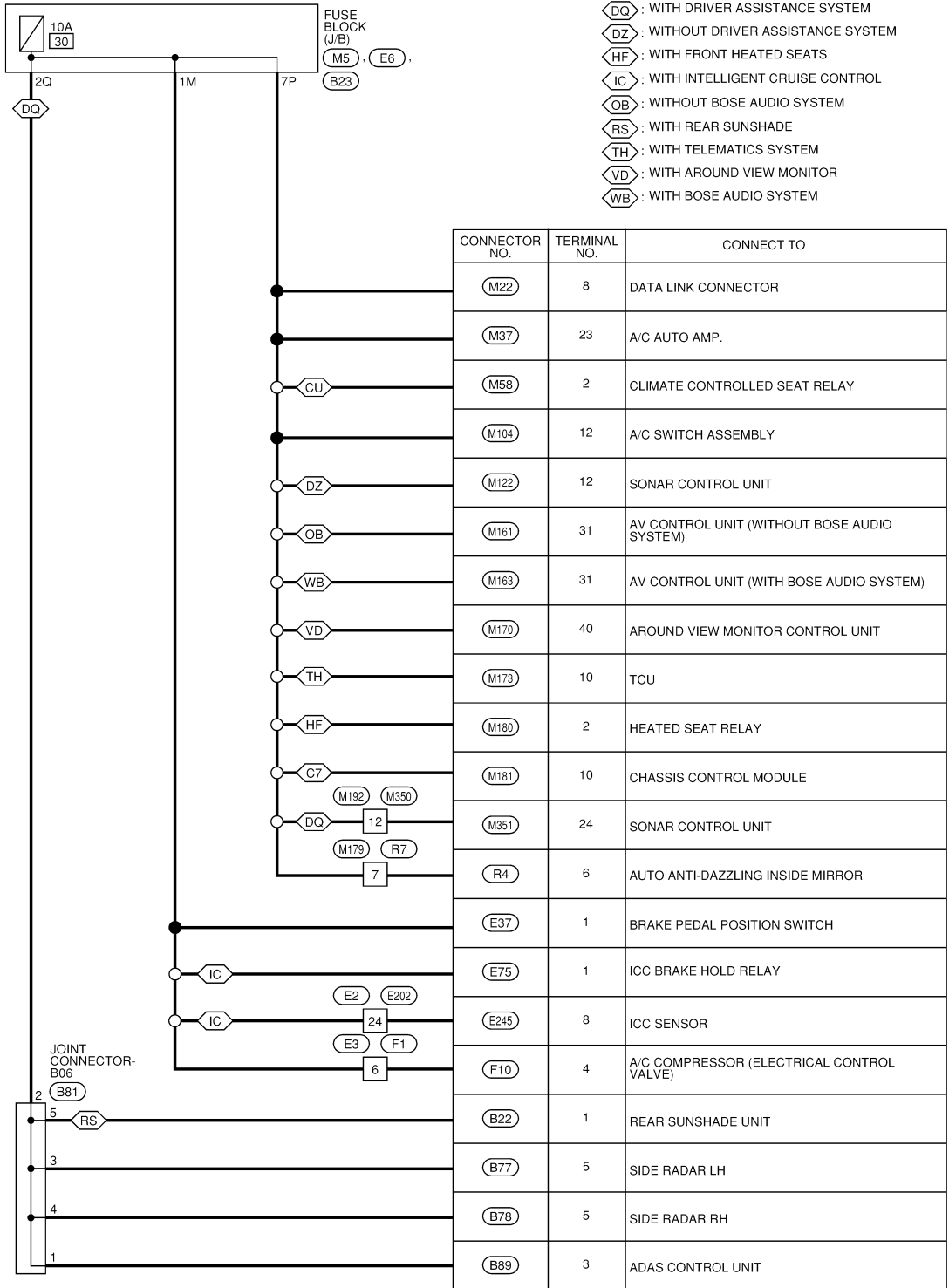
< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 30

INFOID:000000012242335

IGNITION POWER SUPPLY FUSE No. 30

- ⬡C7 : WITH CHASSIS CONTROL SYSTEM
- ⬡CU : WITH CLIMATE CONTROLLED SEAT
- ⬡DQ : WITH DRIVER ASSISTANCE SYSTEM
- ⬡DZ : WITHOUT DRIVER ASSISTANCE SYSTEM
- ⬡HF : WITH FRONT HEATED SEATS
- ⬡IC : WITH INTELLIGENT CRUISE CONTROL
- ⬡OB : WITHOUT BOSE AUDIO SYSTEM
- ⬡RS : WITH REAR SUNSHADE
- ⬡TH : WITH TELEMATICS SYSTEM
- ⬡VD : WITH AROUND VIEW MONITOR
- ⬡WB : WITH BOSE AUDIO SYSTEM



AAMWA1944GB

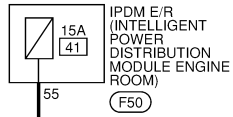
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 41 -

INFOID:000000012242337

IGNITION POWER SUPPLY FUSE No. 41



CONNECTOR NO.	TERMINAL NO.	CONNECT TO
F26	1	CONDENSER-1
F34	3	IGNITION COIL NO. 1 (WITH POWER TRANSISTOR)
F35	3	IGNITION COIL NO. 2 (WITH POWER TRANSISTOR)
F36	3	IGNITION COIL NO. 3 (WITH POWER TRANSISTOR)
F37	3	IGNITION COIL NO. 4 (WITH POWER TRANSISTOR)
F38	3	IGNITION COIL NO. 5 (WITH POWER TRANSISTOR)
F39	3	IGNITION COIL NO. 6 (WITH POWER TRANSISTOR)

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

PG

AAMWA1758GB

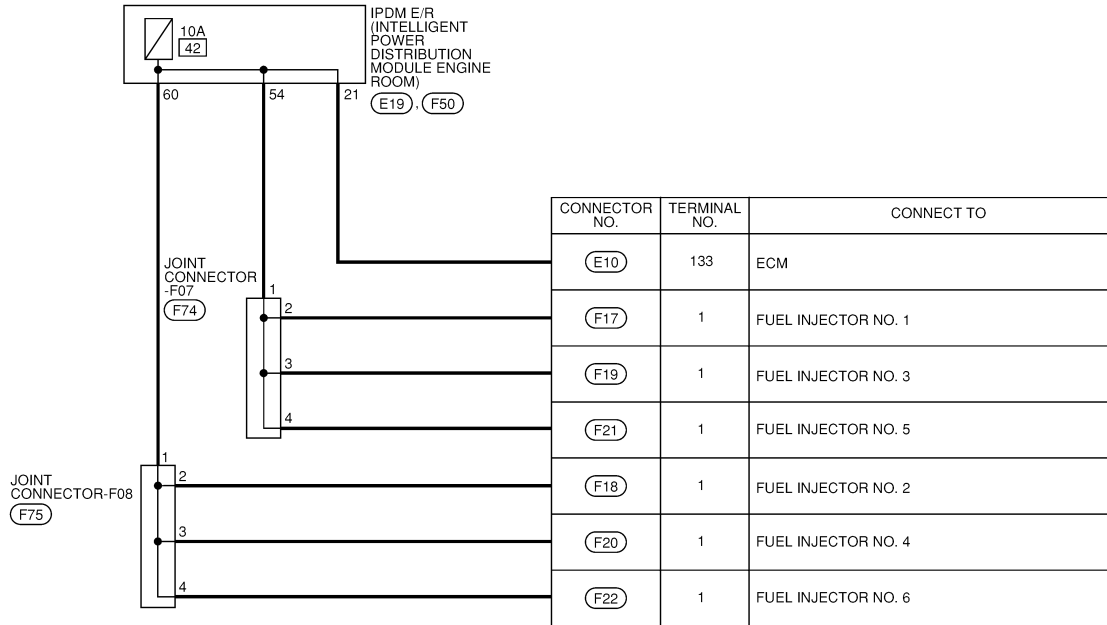
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 42 -

INFOID:000000012242338

IGNITION POWER SUPPLY FUSE No. 42



AAMWA1759GB

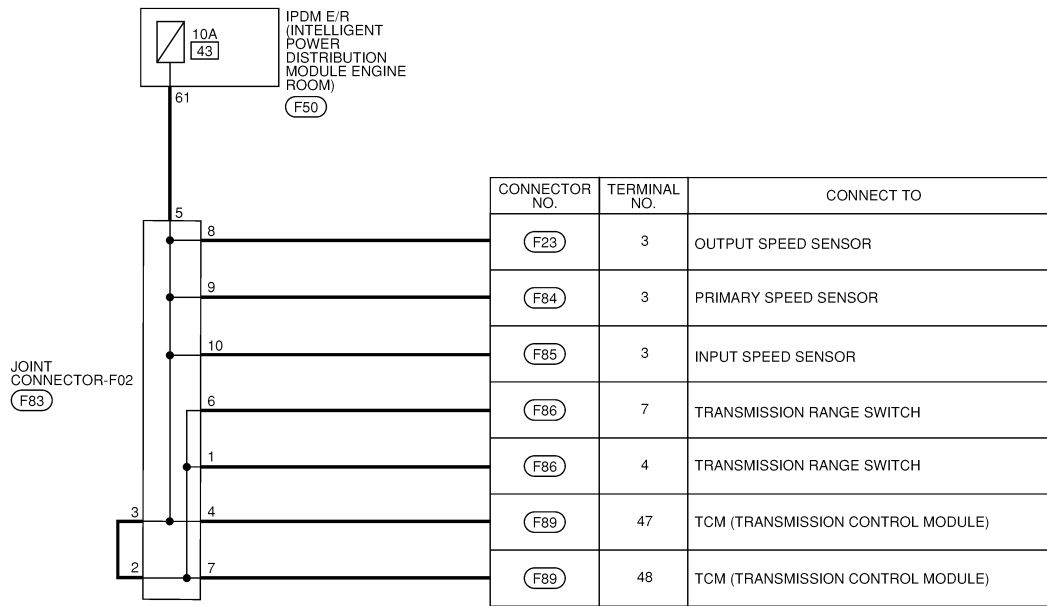
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 43 -

INFOID:000000012242339

IGNITION POWER SUPPLY FUSE No. 43



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

PG

AAMWA1760GB

GROUND

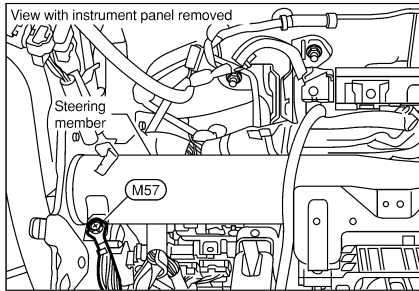
< WIRING DIAGRAM >

GROUND

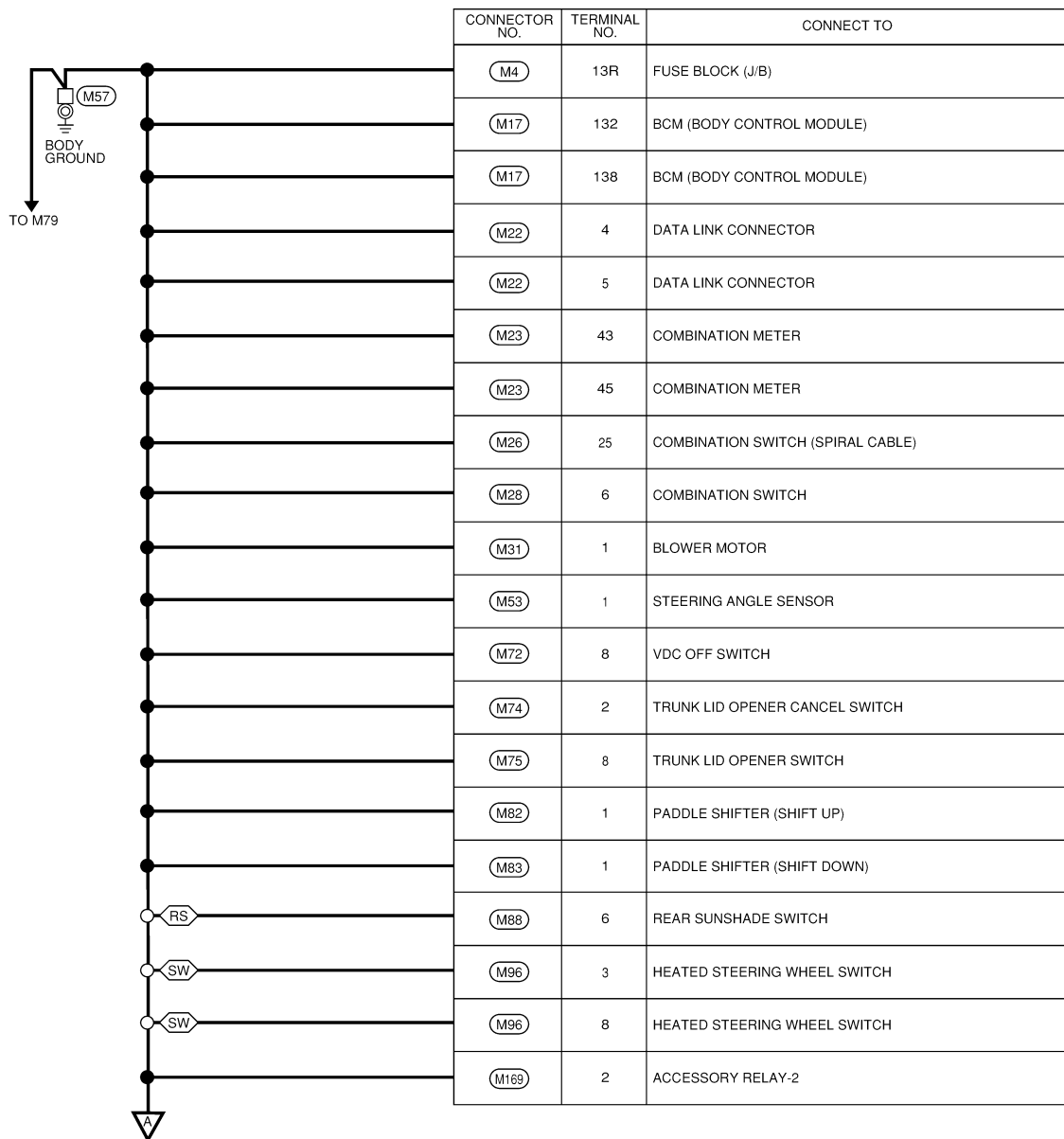
Ground Distribution

INFOID:000000011937437

MAIN HARNESS



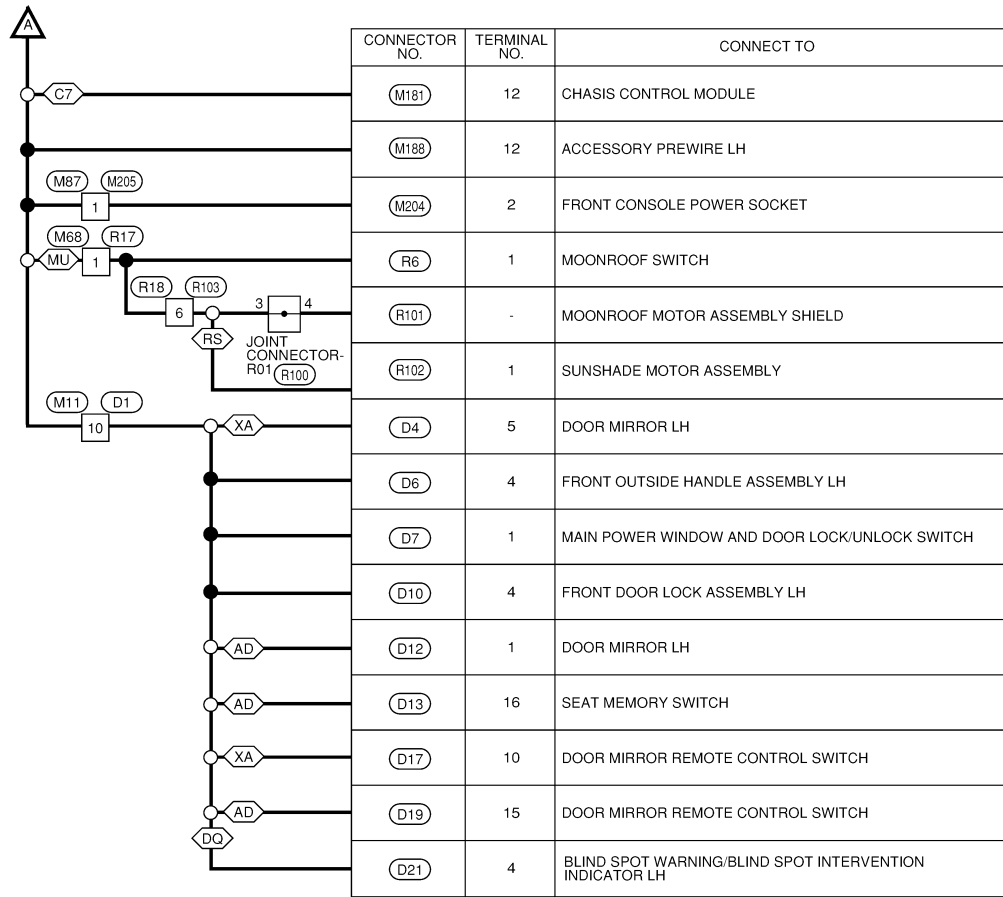
- ⬡AD⬢ : WITH AUTOMATIC DRIVE POSITIONER
- ⬡C7⬢ : WITH CHASSIS CONTROL SYSTEM
- ⬡DQ⬢ : WITH DRIVER ASSISTANCE SYSTEM
- ⬡HF⬢ : WITH FRONT HEATED SEATS
- ⬡MU⬢ : WITH MOONROOF
- ⬡RS⬢ : WITH REAR SUNSHADE
- ⬡SW⬢ : WITH HEATED STEERING WHEEL
- ⬡TH⬢ : WITH TELEMATICS SYSTEM
- ⬡XA⬢ : WITHOUT AUTOMATIC DRIVE POSITIONER



AAMIA3439GB

GROUND

< WIRING DIAGRAM >

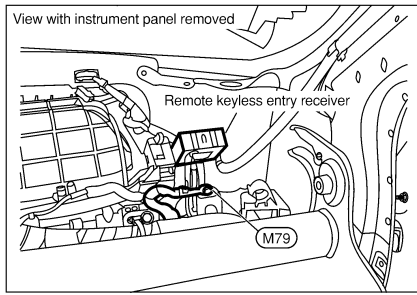


A
B
C
D
E
F
G
H
I
J
K
L
PG
N
O
P

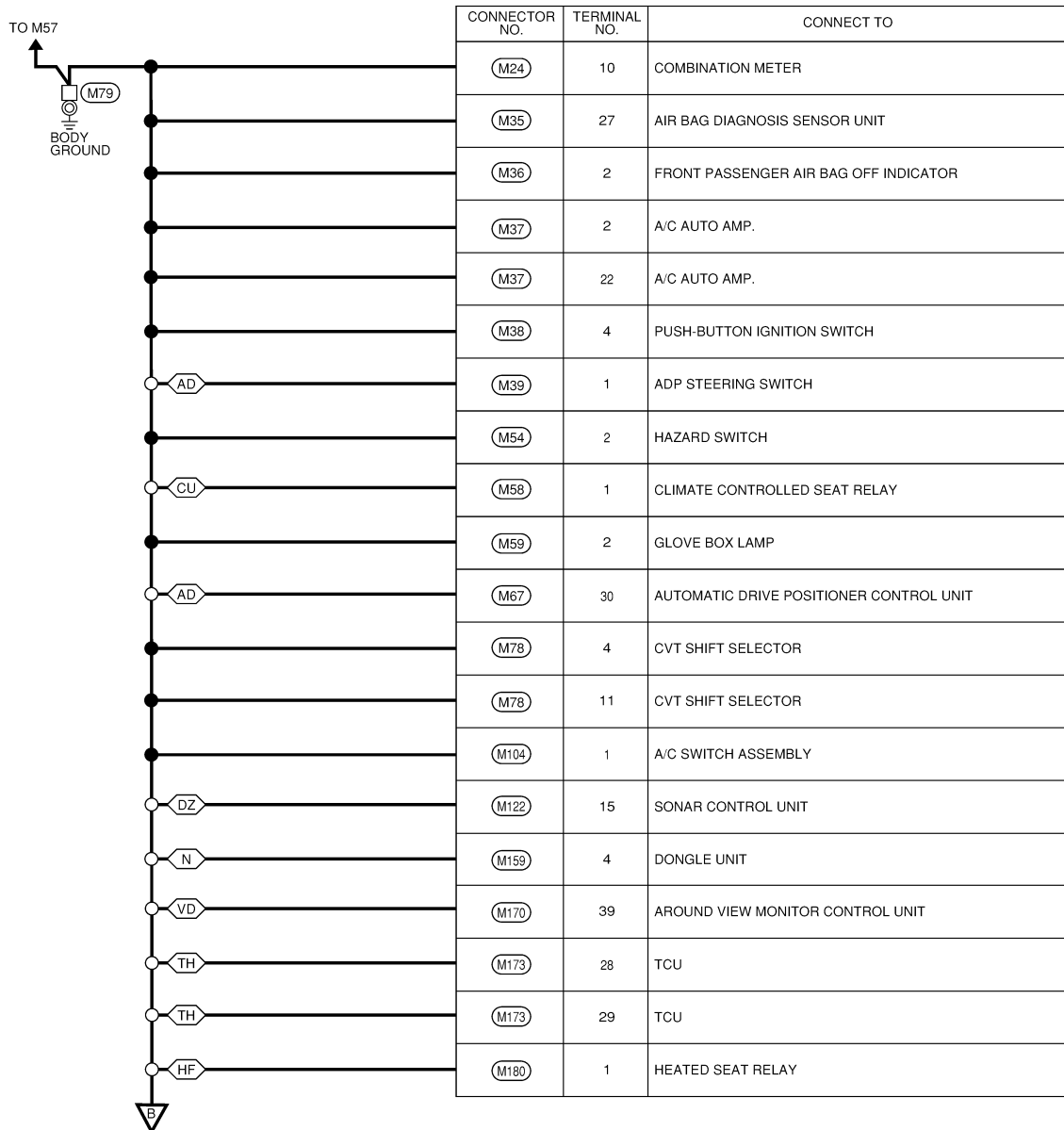
AAMIA3440GB

GROUND

< WIRING DIAGRAM >



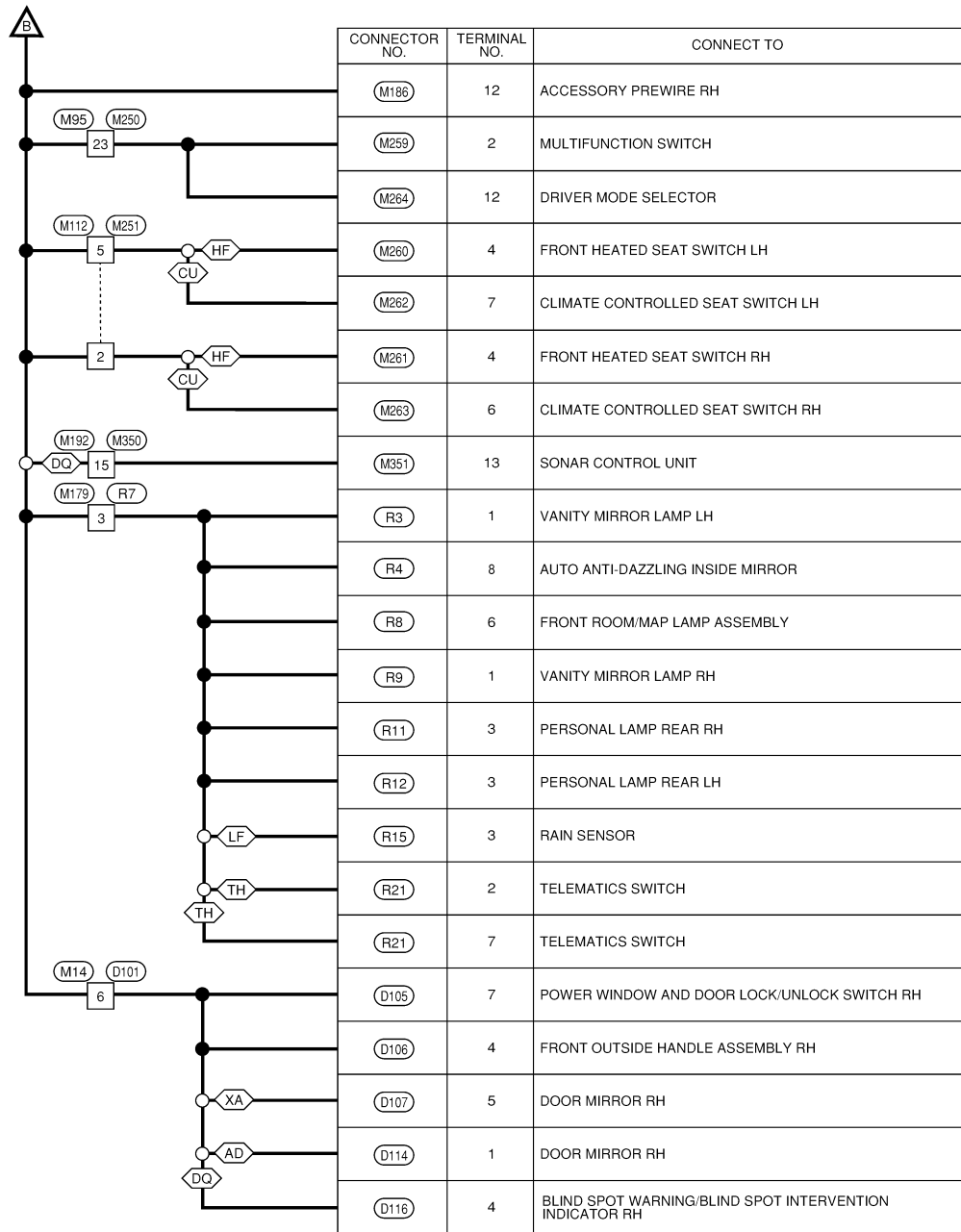
- ⬡AD : WITH AUTOMATIC DRIVE POSITIONER
- ⬡CU : WITH CLIMATE CONTROLLED SEAT
- ⬡DQ : WITH DRIVER ASSISTANCE SYSTEM
- ⬡DZ : WITHOUT DRIVER ASSISTANCE SYSTEM
- ⬡HF : WITH FRONT HEATED SEATS
- ⬡LF : WITH RAIN SENSING FRONT WIPERS
- ⬡N : FOR CANADA
- ⬡TH : WITH TELEMATICS SYSTEM
- ⬡VD : WITH AROUND VIEW MONITOR
- ⬡XA : WITHOUT AUTOMATIC DRIVE POSITIONER



AAMIA3718GB

GROUND

< WIRING DIAGRAM >



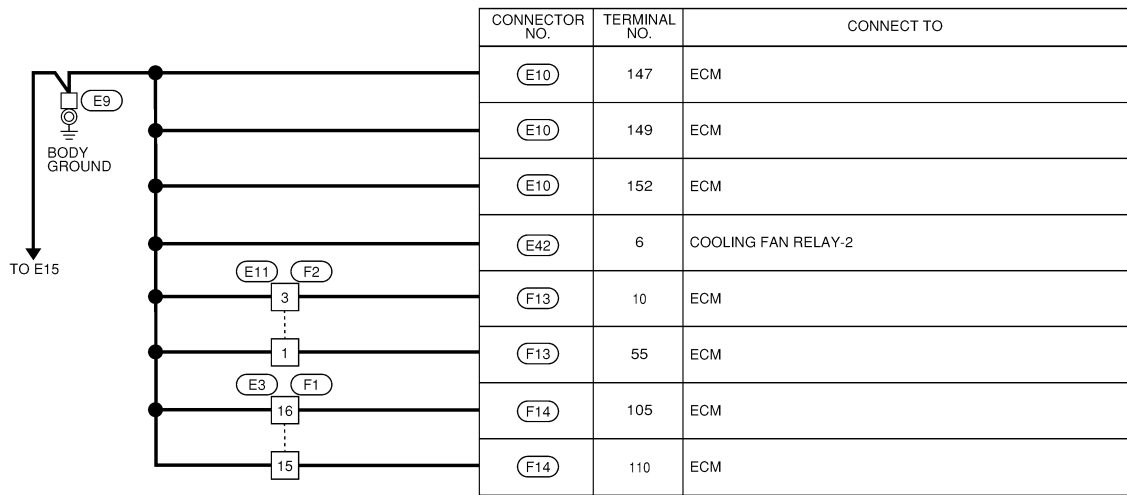
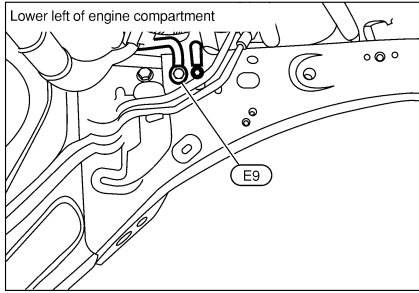
AAMIA3719GB

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

GROUND

< WIRING DIAGRAM >

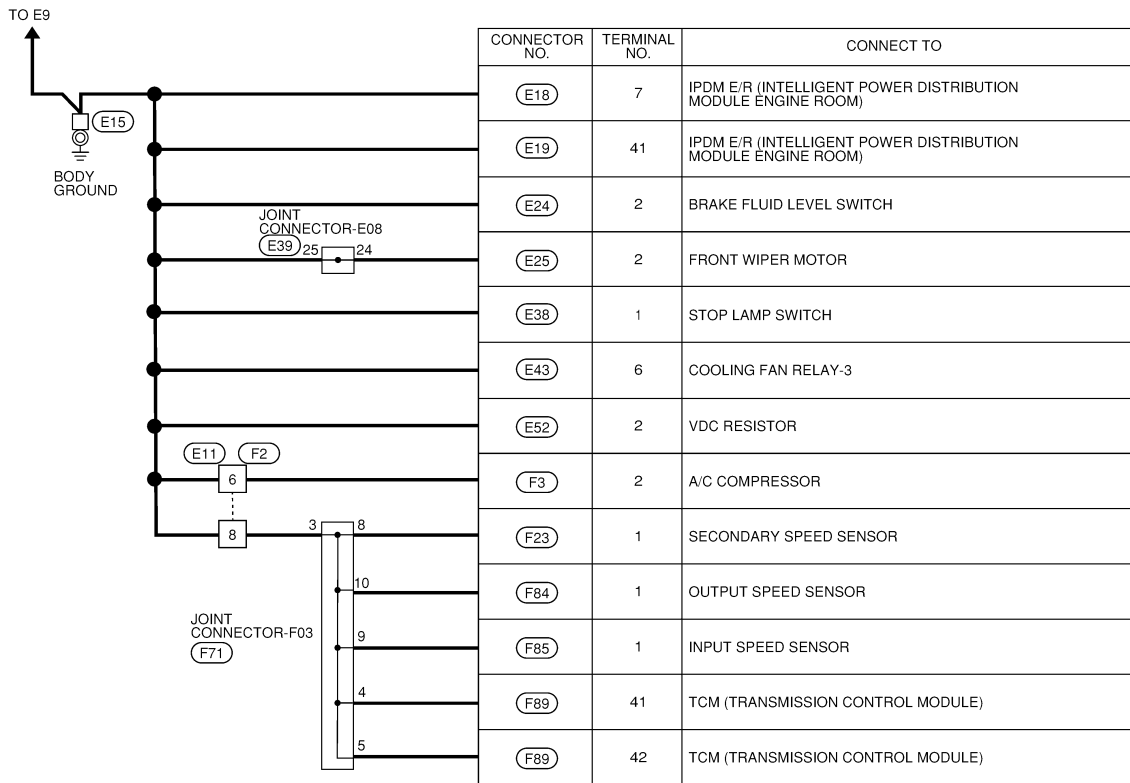
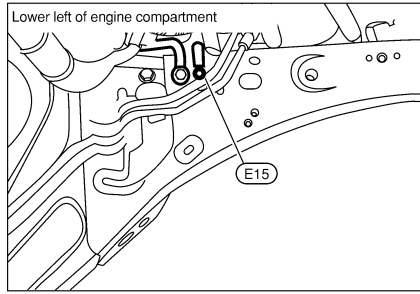
ENGINE ROOM HARNESS



AAMIA3443GB

GROUND

< WIRING DIAGRAM >



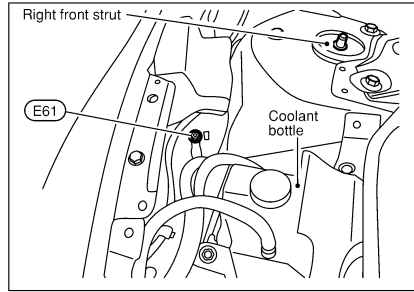
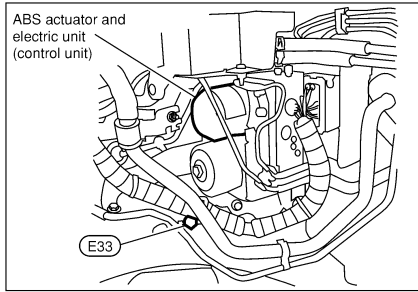
A
B
C
D
E
F
G
H
I
J
K
L
N
O
P

PG

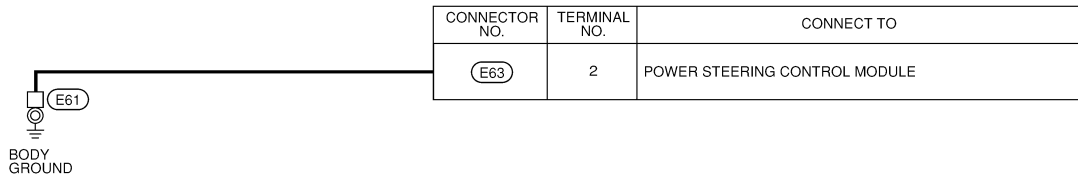
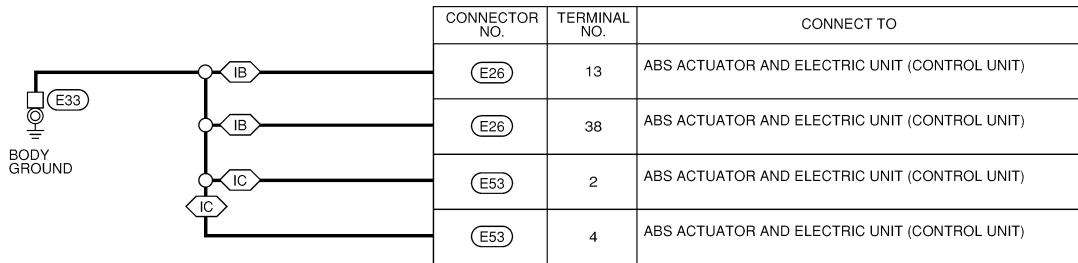
AAMIA3444GB

GROUND

< WIRING DIAGRAM >



IB : WITHOUT INTELLIGENT CRUISE CONTROL
IC : WITH INTELLIGENT CRUISE CONTROL

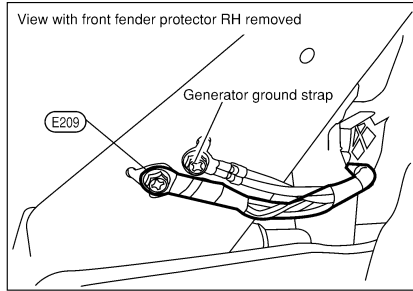
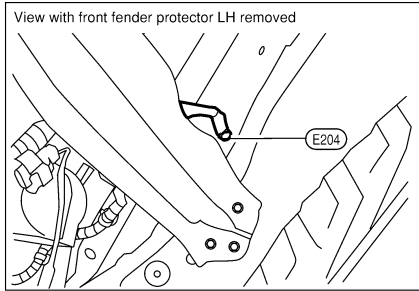


AAMIA3451GB

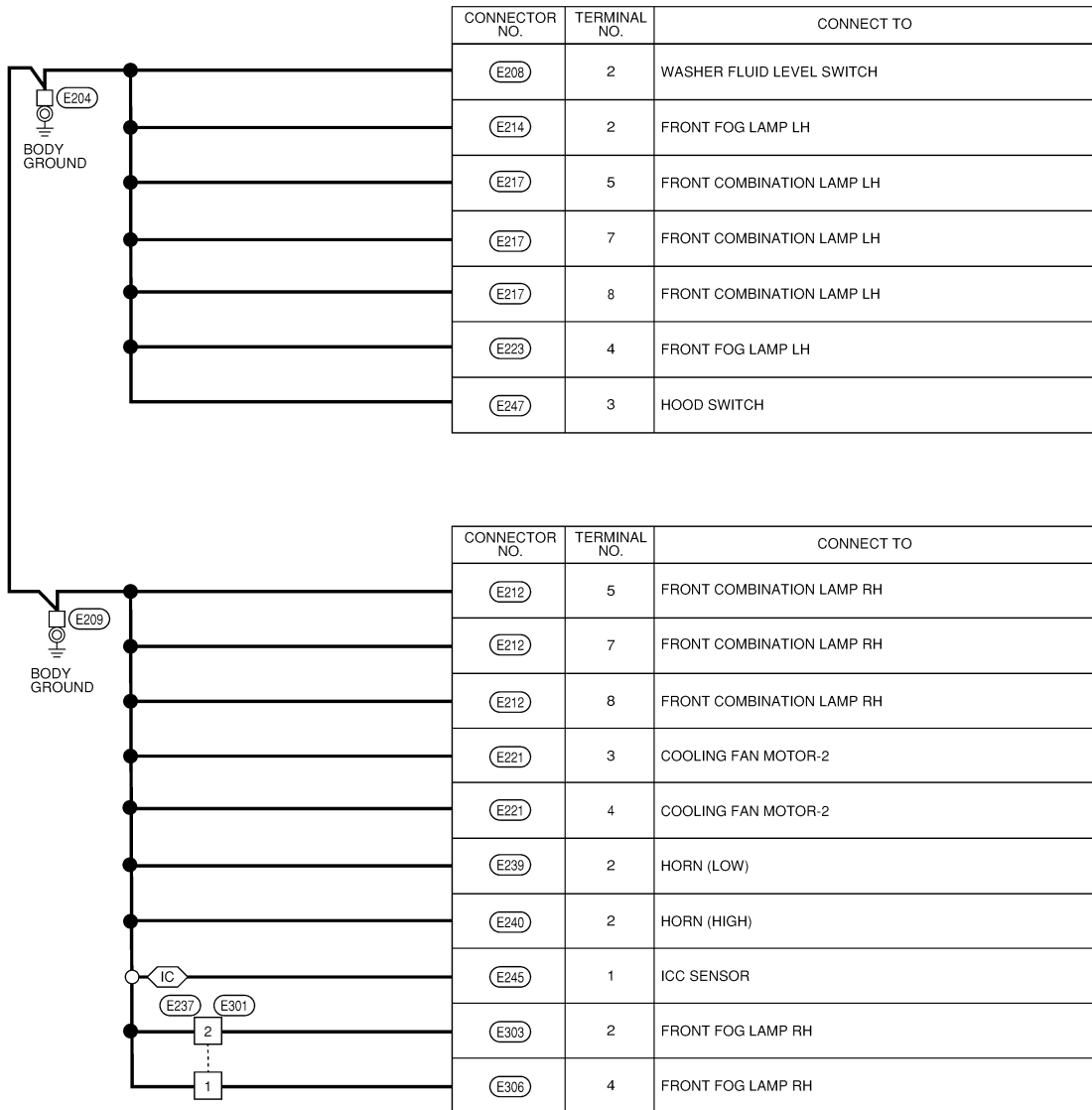
GROUND

< WIRING DIAGRAM >

FRONT END MODULE HARNESS



⊠ IC ⊡ : WITH INTELLIGENT CRUISE CONTROL



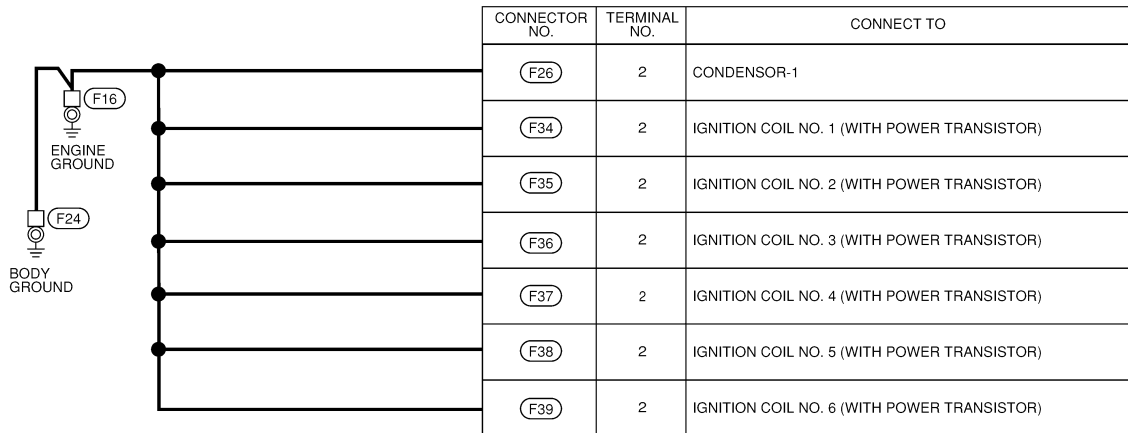
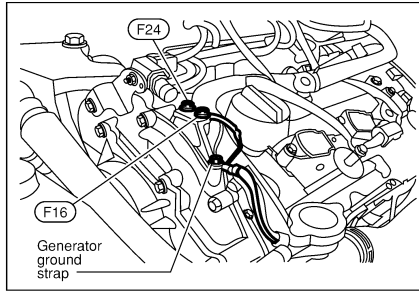
AAMIA3445GB

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

GROUND

< WIRING DIAGRAM >

ENGINE CONTROL HARNESS

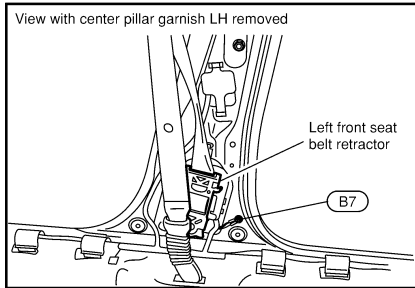


AAMIA3446GB

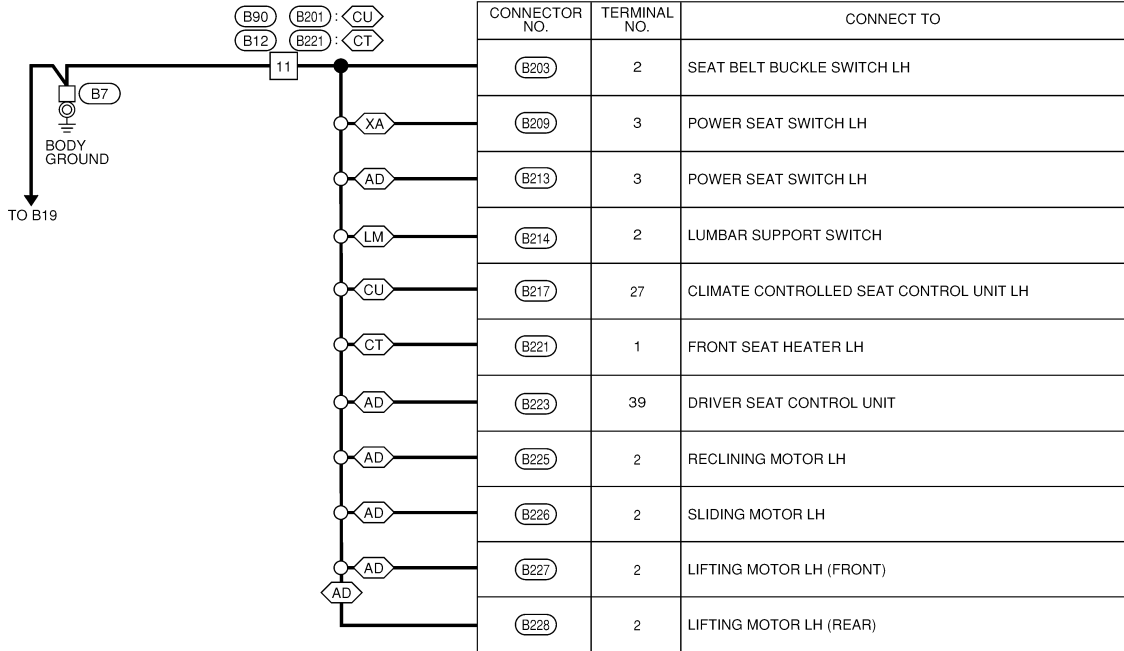
GROUND

< WIRING DIAGRAM >

BODY HARNESS



- ⊡AD⊡ : WITH AUTOMATIC DRIVE POSITIONER
- ⊡CT⊡ : WITHOUT CLIMATE CONTROLLED SEAT
- ⊡CU⊡ : WITH CLIMATE CONTROLLED SEAT
- ⊡LM⊡ : WITH POWER LUMBAR SUPPORT
- ⊡XA⊡ : WITHOUT AUTOMATIC DRIVE POSITIONER

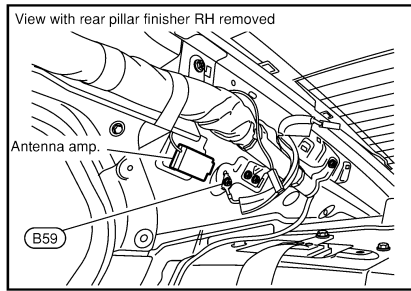
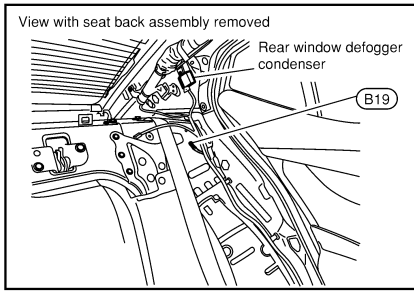


A
B
C
D
E
F
G
H
I
J
K
L
N
O
P

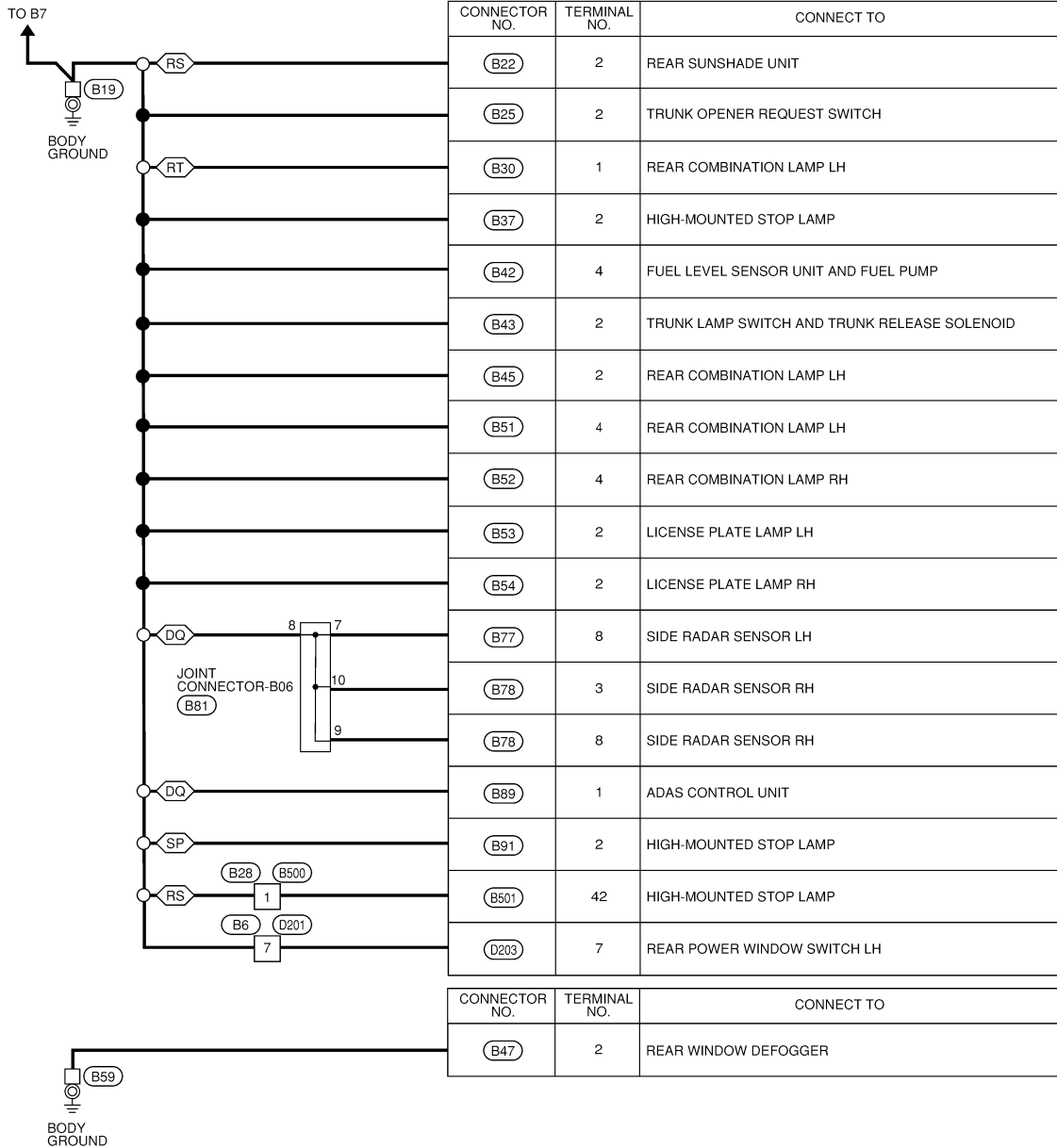
PG

GROUND

< WIRING DIAGRAM >



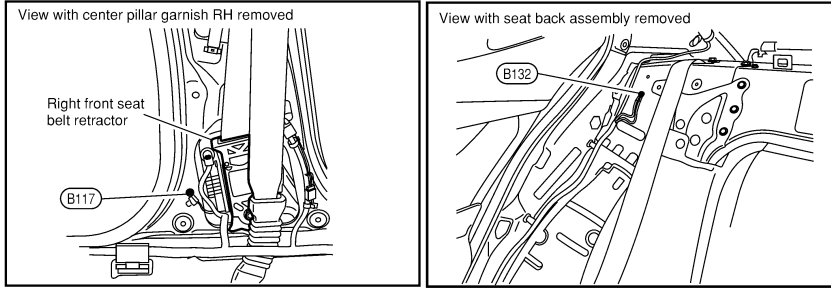
- DQ : WITH DRIVER ASSISTANCE SYSTEM
- RS : WITH REAR SUNSHADE
- RT : WITHOUT REAR SUNSHADE
- SP : WITH REAR SPOILER



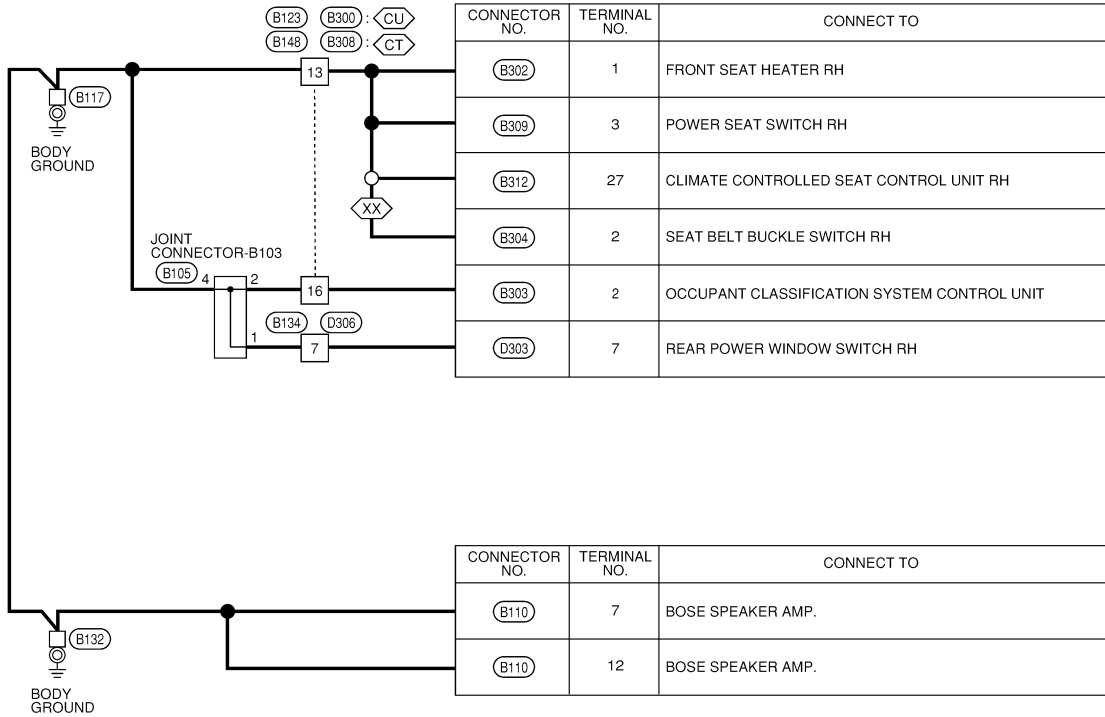
AAMIA3448GB

GROUND

< WIRING DIAGRAM > BODY NO. 2 HARNESS



<CT> : WITHOUT CLIMATE CONTROLLED SEAT
 <CU> : WITH CLIMATE CONTROLLED SEAT
 <XX> : FOR MEXICO



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

HARNESS

< WIRING DIAGRAM >

HARNESS

Harness Layout

INFOID:000000011937438

HOW TO READ HARNESS LAYOUT

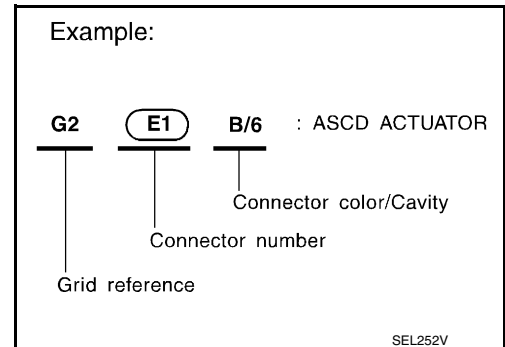
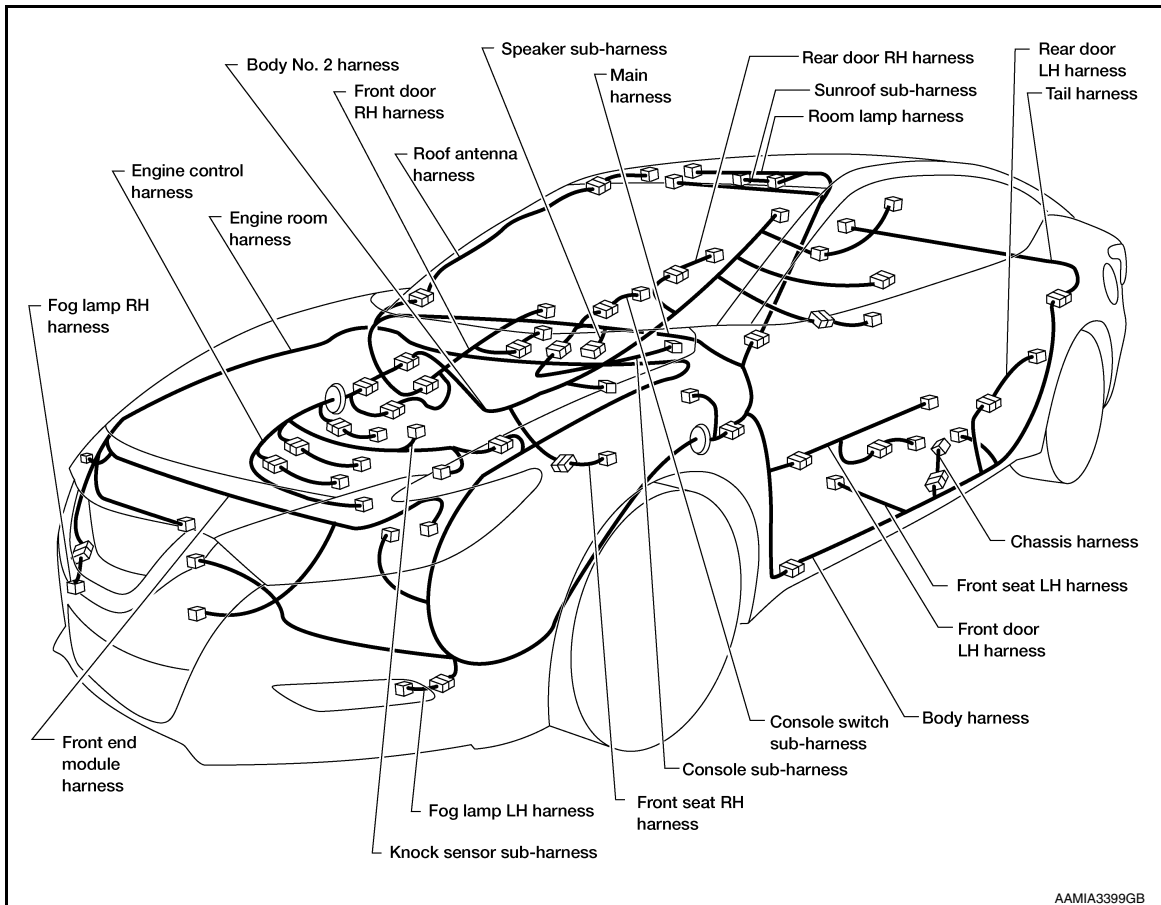
The following Harness Layouts use a map style grid to help locate connectors on the drawings:

- Main Harness, Console Sub-harness, Console Switch Sub-harness, and Speaker Sub-harness
- Engine Room Harness, Front End Module Harness, Fog Lamp Harness LH, and Fog Lamp Harness RH
- Engine Room Harness (Passenger Compartment)
- Engine Control Harness and Knock Sensor Sub-harness
- Body Harness, Tail Harness and Chassis Harness
- Body No. 2 Harness
- Room Lamp Harness, Roof Antenna Harness and Sunroof Sub-harness

To use the grid reference

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

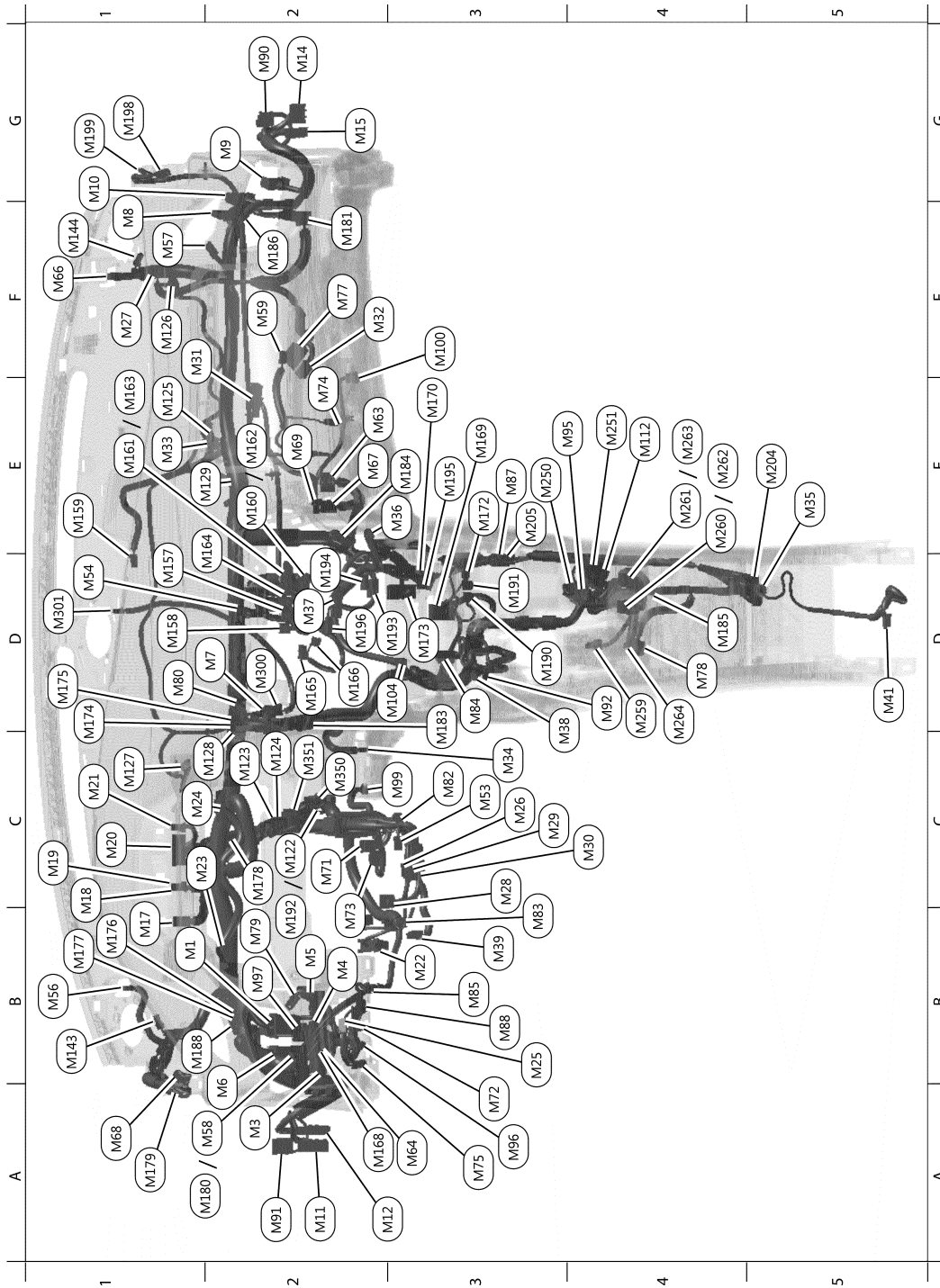
OUTLINE



HARNESS

< WIRING DIAGRAM >

MAIN HARNESS



AAMIA0508ZZ

B1	M1	SMJ	: To E30	C3	M99	BR/2	: Foot lamp LH
A2	M3	W/8	: Fuse block (J/B)	F3	M100	BR/2	: Foot lamp RH
B2	M4	BR/16	: Fuse block (J/B)	D3	M104	W/12	: A/C switch assembly
B2	M5	W/16	: Fuse block (J/B)	E4	M112	W/12	: To M251

HARNESS

< WIRING DIAGRAM >

A2	M6	SMJ	: To B1	C2	M122	W/24	: Sonar control unit (Without driver assistance system)
D2	M7	W/2	: To M300	C2	M123	W/4	: Joint connector-M09
F1	M8	W/32	: To B102	C2	M124	W/4	: Joint connector-M03
G2	M9	BR/16	: To B103	E1	M125	W/3	: To M33
G1	M10	W/16	: To B104	F1	M126	W/3	: Intake door motor
A2	M11	W/16	: To D1	C1	M127	W/3	: Mode door motor
A2	M12	W/40	: To D2	C2	M128	W/3	: Air mix door motor LH
G2	M14	W/10	: To D101	E2	M129	W/3	: Air mix door motor RH
G2	M15	W/24	: To D102	B1	M143	BR/2	: tweeter LH
B1	M17	W/15	: BCM (Body control module)	F1	M144	BR/2	: tweeter RH
C1	M18	B/24	: BCM (Body control module)	D1	M157	G/6	: AV control unit
C1	M19	GR/24	: BCM (Body control module)	D1	M158	G/6	: AV control unit (With BOSE audio system)
C1	M20	B/40	: BCM (Body control module)	E1	M159	W/4	: Dongle unit
C1	M21	G/40	: BCM (Body control module)	E2	M160	W/20	: AV control unit (Without BOSE audio system)
B3	M22	W/16	: Data link connector	E1	M161	W/40	: AV control unit (Without BOSE audio system)
C1	M23	W/16	: Combination meter	E2	M162	W/20	: AV control unit (With BOSE audio system)
C1	M24	W/40	: Combination meter	E1	M163	W/40	: AV control unit (With BOSE audio system)
B3	M25	W/8	: Meter control switch	E2	M164	B/6	: AV control unit
C3	M26	W/2	: Combination switch (Spiral cable)	D2	M165	GR/5	: AV control unit
F1	M27	B/4	: Remote keyless entry receiver	D2	M166	P/2	: AV control unit
C3	M28	W/12	: Combination switch (Lighting and turn signal switch)	A2	M168	W/4	: Joint connector-M01
C3	M29	Y/6	: Combination switch (Spiral cable)	E3	M169	L/4	: Accessory relay-2
C4	M30	GR/8	: Combination switch (Spiral cable)	E3	M170	W/40	: Around view monitor control unit
F1	M31	W/6	: Blower motor	E3	M172	W/4	: Aux jack
F2	M32	Y/2	: To M137	D3	M173	B/40	: TCU
E1	M33	W/3	: To M125	D1	M174	W/4	: Joint connector-M07
C3	M34	W/2	: In-vehicle sensor	D1	M175	W/4	: Joint connector-M06
E5	M35	Y/28	: Air bag diagnosis sensor unit	B1	M176	W/4	: Joint connector-M05
E3	M36	BR/2	: Front passenger air bag off indicator	B1	M177	W/4	: Joint connector-M04
D2	M37	W/40	: A/C auto amp.	C2	M178	GR/6	: Joint connector-M08
D3	M38	W/8	: Push-button ignition switch	A1	M179	W/24	: To R7
B3	M39	GR/5	: ADP steering switch	A2	M180	BR/6	: Heated seat relay
D5	M41	GR/2	: Inside key antenna (Console)	F2	M181	W/24	: Chassis control module
C3	M53	W/8	: Steering angle sensor	D3	M183	W/4	: Mood lamp (Instrument panel LH inner)
D1	M54	W/4	: Hazard switch	E3	M184	W/4	: Mood lamp (Instrument panel RH)
B1	M56	B/2	: Sunload sensor	D4	M185	W/4	: Joint connector-M10
F1	M57	—	: Body ground	F2	M186	W/12	: Accessory prewire RH
A2	M58	BR/6	: Climate controlled seat relay	B1	M188	W/12	: Accessory prewire LH
F2	M59	W/2	: Glove box lamp	D3	M190	B/6	: USB interface-1
E2	M63	W/24	: Automatic drive positioner control unit	D3	M191	LG/6	: USB interface-2
A3	M64	W/4	: Joint connector-M02	B2	M192	W/24	: To M350
F1	M66	W/3	: Optical sensor	D3	M193	G/6	: TCU
E2	M67	W/6	: Automatic drive positioner control unit	D2	M194	P/2	: TCU

HARNESS

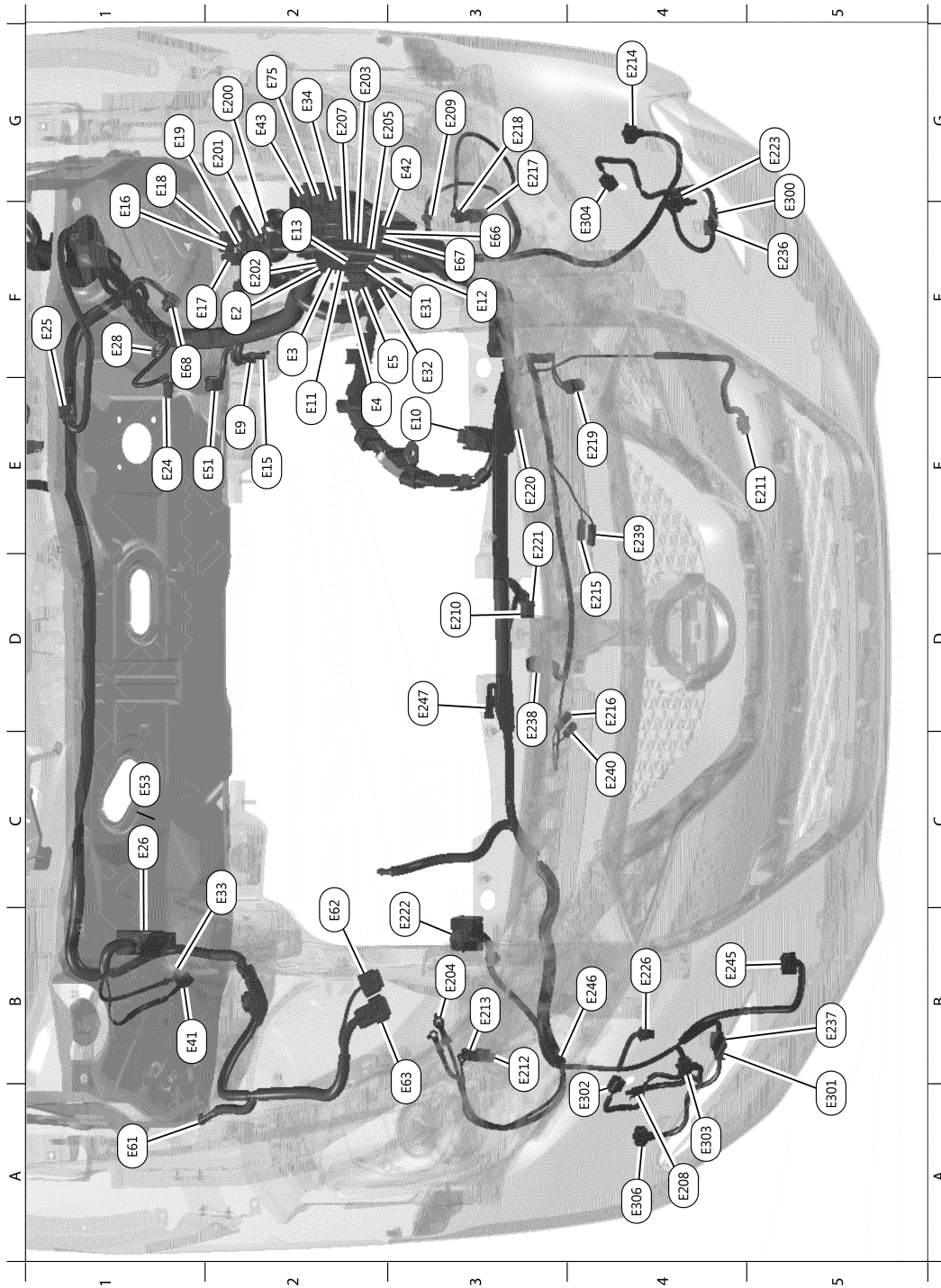
< WIRING DIAGRAM >

A1	M68	W/6	: To R17	E3	M195	L/2	: TCU	A
E2	M69	W/2	: Intake sensor	D2	M196	GR/5	: TCU antenna	B
C2	M71	BR/6	: Tilt motor	G1	M198	GR/5	: To R200	C
A3	M72	B/8	: VDC off switch	G1	M199	BR/2	: To R201	D
B2	M73	W/6	: Telescopic motor	Console sub-harness				E
E2	M74	W/2	: Trunk lid opener cancel switch	E5	M204	GR/3	: Front console power socket	F
A3	M75	G/8	: Trunk lid opener switch	E3	M205	W/6	: To M87	G
F2	M77	Y/4	: To M136	Console switch sub-harness				H
D4	M78	W/16	: CVT shift selector	E3	M250	W/24	: To M95	I
B2	M79	—	: Body ground	E4	M251	W/12	: To M112	J
D1	M80	B/2	: Diode-1	D4	M259	W/11	: Multifunction switch	K
C3	M82	W/4	: Paddle shifter (Shift up)	E4	M260	W/6	: Front heated seat switch LH	L
B3	M83	W/3	: Paddle shifter (Shift down)	E4	M261	BR/6	: Front heated seat switch RH	M
D3	M84	W/2	: Circuit breaker	E4	M262	W/10	: Climate controlled seat switch LH	N
B3	M85	W/4	: Mood lamp (Instrument panel LH outer)	E4	M263	BR/8	: Climate controlled seat switch RH	O
E3	M87	W/6	: To M205	D4	M264	GR/12	: Drive mode switch	P
B3	M88	B/10	: Rear sunshade switch	Speaker sub-harness				PG
G2	M90	Y/4	: To D110	D2	M300	W/2	: To M7	N
A2	M91	Y/4	: To D16	D1	M301	W/2	: Center speaker	O
D4	M92	W/3	: NATS antenna amp.	Sonar control unit sub-harness				P
E4	M95	W/24	: To M250	C2	M350	W/24	: To M192	PG
A3	M96	L/8	: Heated steering wheel switch	C2	M351	W/24	: Sonar control unit (With driver assistance system)	N
B2	M97	L/5	: Heated steering relay					O

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS



AAMIA0509ZZ

F2	E2	W/24	: To E202	G2	E203	W/6	: To E12
F2	E3	W/16	: To F1	B3	E204	—	: Body ground
E2	E4	BR/2	: Fusible link box (Battery)	G3	E205	Y/4	: To E13
F3	E5	GR/2	: Fusible link box (Battery)	G2	E207	W/8	: To E31
E2	E9	—	: Body ground	A4	E208	B/2	: Washer fluid level switch

HARNESS

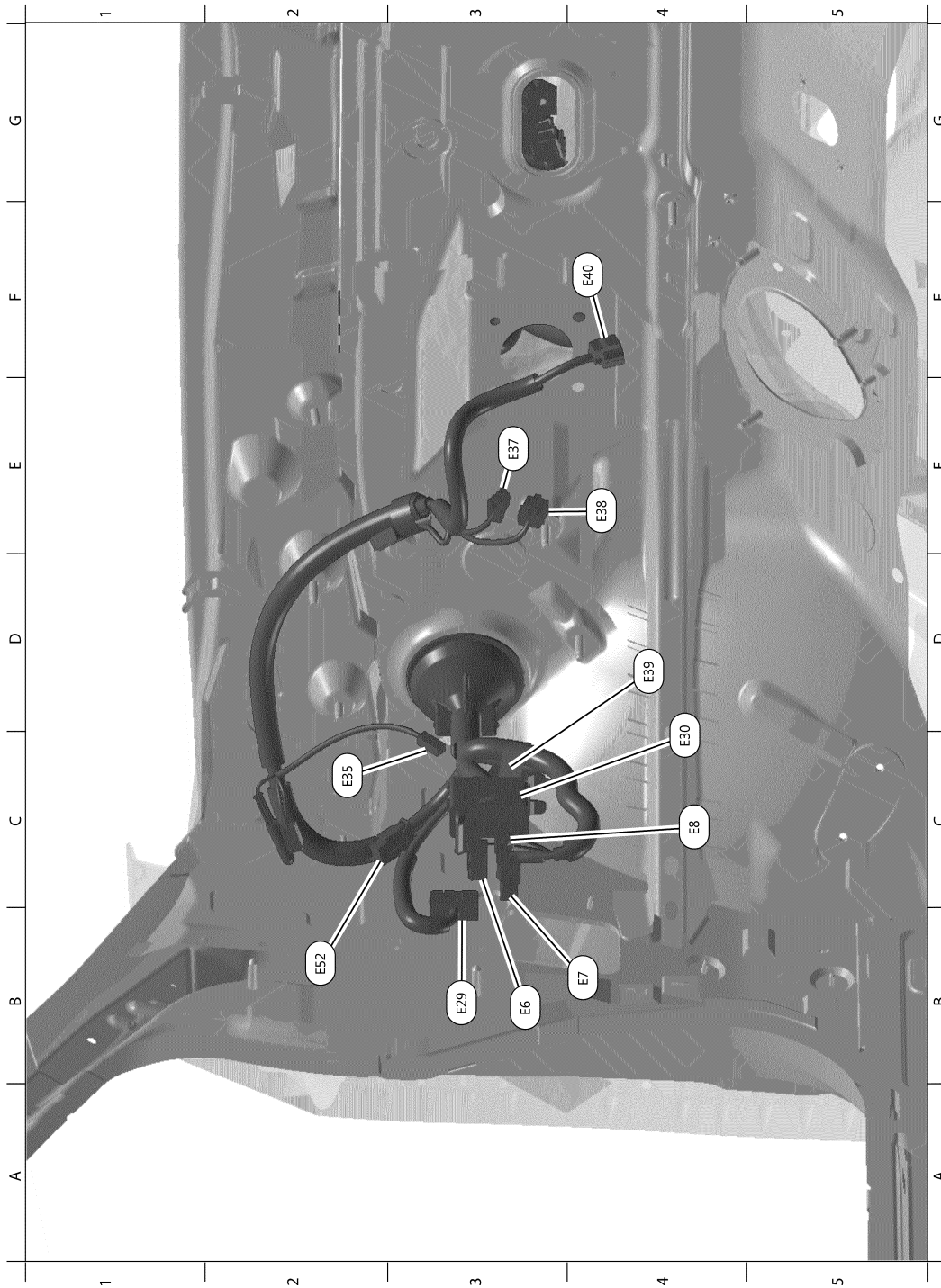
< WIRING DIAGRAM >

E3	E10	B/32	: ECM	G3	E209	—	: Body ground	A	
E2	E11	BR/8	: To F2	D3	E210	Y/2	: Crash zone sensor	B	
F3	E12	W/6	: To E203	E5	E211	B/2	: Ambient sensor	C	
F2	E13	Y/4	: To E205	B3	E212	GR/8	: Front combination lamp RH	D	
E2	E15	—	: Body ground	B3	E213	B/2	: Front combination lamp RH	E	
F1	E16	B/2	: IPDM E/R (Intelligent power distribution module engine room)	G4	E214	B/2	: Front fog lamp LH	F	
F1	E17	W/4	: IPDM E/R (Intelligent power distribution module engine room)	D4	E215	BR/1	: Horn (Low)	G	
G1	E18	W/12	: IPDM E/R (Intelligent power distribution module engine room)	D4	E216	BR/1	: Horn (High)	H	
G1	E19	W/32	: IPDM E/R (Intelligent power distribution module engine room)	G3	E217	GR/8	: Front combination lamp LH	I	
E1	E24	GR/2	: Brake fluid level switch	G3	E218	B/2	: Front combination lamp LH	J	
F1	E25	GR/5	: Front wiper motor	E4	E219	B/3	: Refrigerant pressure sensor	K	
C1	E26	B/38	: ABS actuator and electric unit (Control unit) (Without intelligent cruise control system)	E3	E220	GR/4	: Cooling fan motor-1	L	
F1	E28	BR/3	: Intelligent Key warning buzzer	E3	E221	GR/4	: Cooling fan motor-2		
F3	E31	W/8	: To E207	B3	E222	L/4	: Daytime running light relay		
F3	E32	B/1	: Fusible link box (Battery)	G5	E223	B/2	: Front fog lamp LH		
C2	E33	—	: Ground	B4	E226	B/2	: Front washer motor		
G2	E34	L/4	: Stop lamp relay	F5	E236	B/2	: To E300		
B1	E41	GR/2	: Front wheel sensor RH	B5	E237	B/6	: To E301		
G3	E42	BR/6	: Cooling fan relay-2	D3	E238	B/4	: Front camera		
G2	E43	BR/6	: Cooling fan relay-3	E4	E239	B/1	: Horn (Low)		
E2	E51	B/3	: Vacuum sensor	C4	E240	B/1	: Horn (High)		
C1	E53	B/38	: ABS actuator and electric unit (Control unit) (With intelligent cruise control system)	B4	E245	B/8	: ICC sensor		
A1	E61	W/1	: Junction block	B4	E246	B/6	: Joint connector-E01		
B2	E62	B/6	: Power steering control module	D3	E247	BR/3	: Hood switch		
B3	E63	B/2	: Power steering control module	Fog lamp harness LH					
F3	E66	GR/6	: Joint connector-E02	G5	E300	B/2	: To E236		
F3	E67	GR/6	: Joint connector-E03	F4	E304	B/3	: Front sonar sensor LH outer	PG	
F1	E68	GR/2	: Front wheel sensor LH	Fog lamp harness RH					
G2	E75	L/4	: ICC brake hold relay	A5	E301	B/6	: To E237		
Front end module harness				A4	E302	B/3	: Front sonar sensor RH outer		
G2	E200	W/8	: IPDM E/R (Intelligent power distribution module engine room)	A4	E303	B/2	: Front fog lamp RH		
G2	E201	W/16	: IPDM E/R (Intelligent power distribution module engine room)	A4	E306	B/2	: Front fog lamp RH		
F2	E202	W/24	: To E2					P	

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



AAMIA0510ZZ

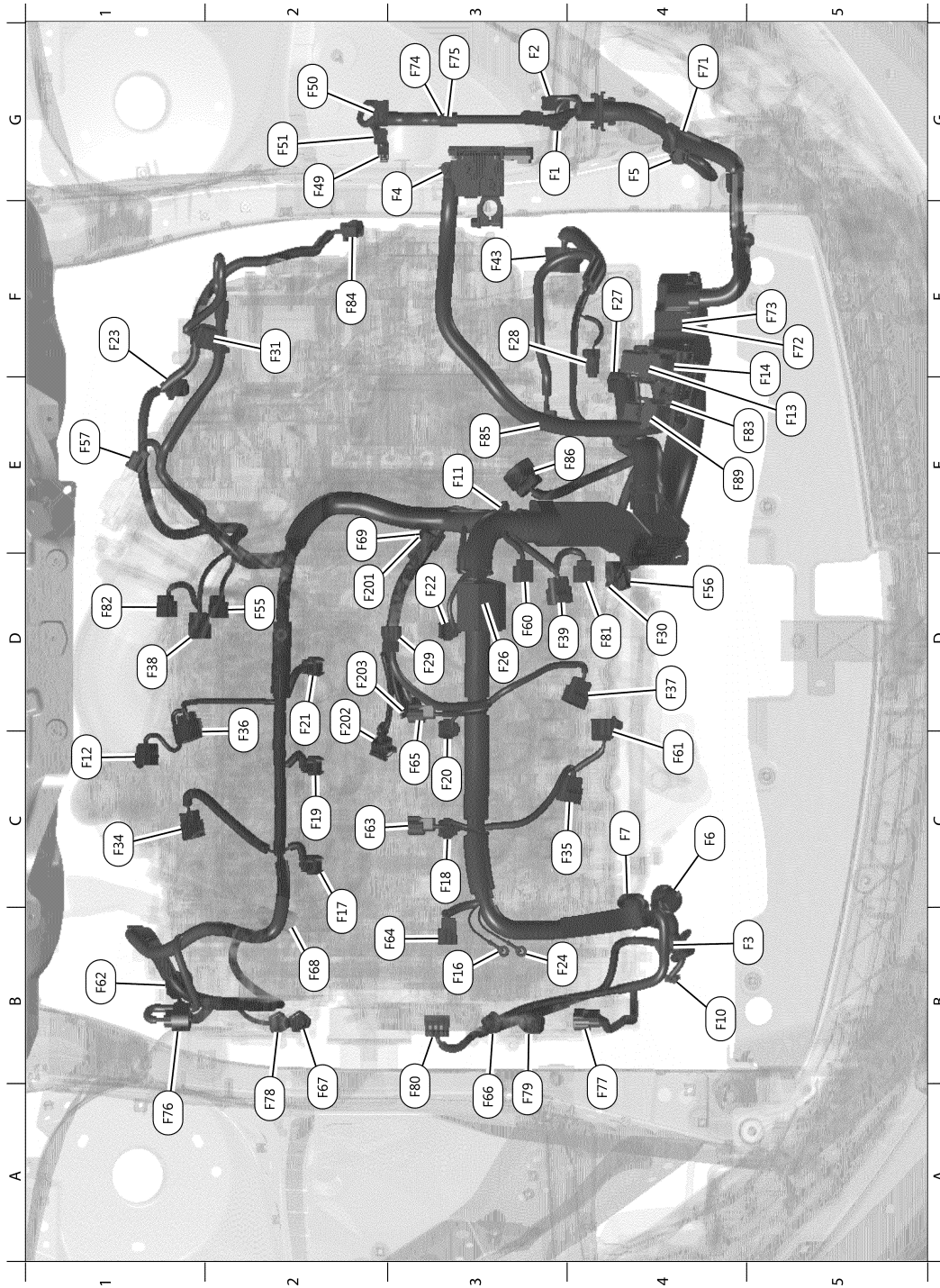
B3	E6	W/10	: Fuse block (J/B)	E3	E37	BR/2	: Brake pedal position switch
B4	E7	W/1	: Fuse block (J/B)	E4	E38	W/4	: Stop lamp switch
C4	E8	W/1	: Fuse block (J/B)	D4	E39	W/33	: Joint connector-E08
B3	E29	W/16	: To B10	F4	E40	B/6	: Accelerator pedal position sensor

HARNESS

< WIRING DIAGRAM >

C4	E30	SMJ	: To M1	B2	E52	BR/2	: VDC resistor
C2	E35	B/1	: Parking brake switch				

ENGINE CONTROL HARNESS



AAMIA0511ZZ

G3	F1	W/16	: To E3	G2	F51	W/12	: IPDM E/R (Intelligent power distribution module engine room)
G3	F2	BR/8	: To E11	D2	F55	B/3	: Camshaft position sensor (PHASE) (Bank 1)

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

PG

HARNESS

< WIRING DIAGRAM >

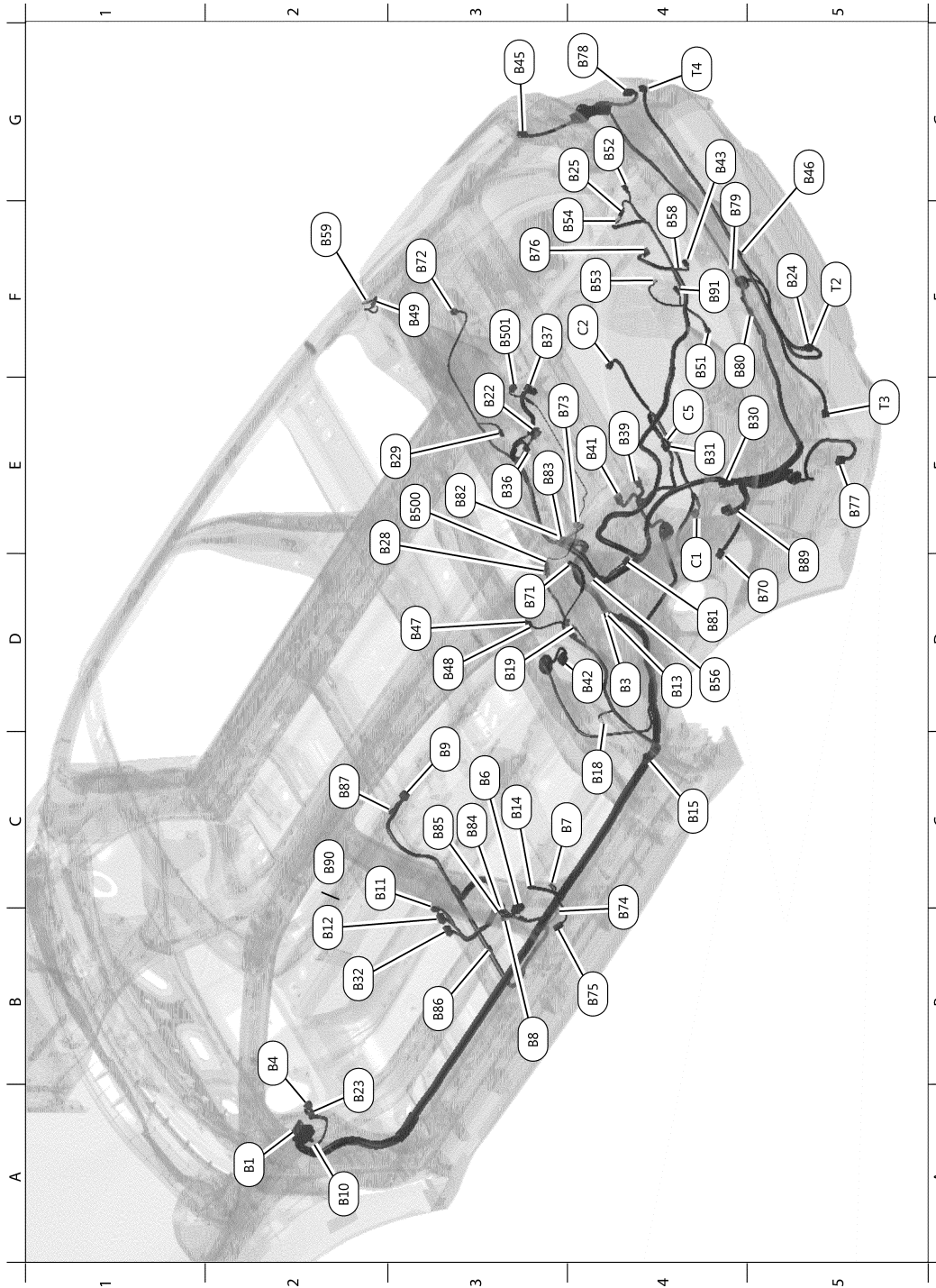
B5	F3	B/2	: A/C compressor	D4	F56	GR/4	: Heated oxygen sensor 2 (Bank 2)
G3	F4	—	: Fusible link box (Battery)	E1	F57	B/6	: Electric throttle control actuator
G4	F5	GR/4	: Battery current sensor	D3	F60	B/3	: Camshaft position sensor (PHASE) (Bank 2)
C4	F6	—	: Generator	C4	F61	GR/4	: Air fuel ratio (A/F) sensor 1 (Bank 2)
C4	F7	B/3	: Generator	B1	F62	GR/4	: Heated oxygen sensor 2 (Bank 1)
B4	F10	GR/2	: A/C compressor (Electrical control valve)	C2	F63	B/2	: VIAS control solenoid valve 1
E3	F11	GR/2	: Engine coolant temperature sensor	B3	F64	BR/2	: Electronic controlled engine mount control solenoid valve
C1	F12	GR/4	: Air fuel ratio (A/F) sensor 1 (Bank 1)	C3	F65	B/2	: VIAS control solenoid valve 2
E5	F13	B/55	: ECM	A3	F66	GR/2	: Intake valve timing control solenoid valve (Bank 2)
F5	F14	B/65	: ECM	A2	F67	GR/2	: Intake valve timing control solenoid valve (Bank 1)
B3	F16	—	: Ground	B2	F68	GR/2	: Engine oil temperature sensor
B2	F17	GR/2	: Fuel injector no. 1	E2	F69	L/4	: To F201
C3	F18	GR/2	: Fuel injector no. 2	G4	F71	B/10	: Joint connector-F03
C2	F19	GR/2	: Fuel injector no. 3	F5	F72	B/10	: Joint connector-F04
C3	F20	GR/2	: Fuel injector no.4	F5	F73	B/10	: Joint connector-F01
D2	F21	GR/2	: Fuel injector no. 5	G3	F74	W/4	: Joint connector-F07
D3	F22	GR/2	: Fuel injector no. 6	G3	F75	W/4	: Joint connector-F08
F1	F23	B/3	: Output speed sensor	A1	F76	GR/2	: Intake valve timing intermediate lock control solenoid valve (Bank 1)
B3	F24	—	: Ground	A4	F77	GR/2	: Intake valve timing intermediate lock control solenoid valve (Bank 2)
D3	F26	W/2	: Condenser-1	A2	F78	GR/2	: Exhaust valve timing control solenoid valve (Bank 1)
F4	F27	—	: Starter motor	A3	F79	GR/2	: Exhaust valve timing control solenoid valve (Bank 2)
F3	F28	GR/1	: Starter motor	A3	F80	B/3	: Engine oil pressure sensor
D3	F29	L/2	: EVAP canister purge volume control solenoid valve	D4	F81	B/3	: Exhaust valve timing control position sensor (PHASE) (Bank 2)
D4	F30	B/3	: Crankshaft position sensor (POS)	D1	F82	B/3	: Exhaust valve timing control position sensor (PHASE) (Bank 1)
F2	F31	B/4	: Mass air flow sensor	E5	F83	B/10	: Joint connector-F02
C1	F34	GR/3	: Ignition coil no. 1 (With power transistor)	F2	F84	B/3	: Primary speed sensor
C4	F35	GR/3	: Ignition coil no. 2 (With power transistor)	E3	F85	B/3	: Input speed sensor
D2	F36	GR/3	: Ignition coil no. 3 (With power transistor)	E4	F86	B/10	: Transmission range switch
D4	F37	GR/3	: Ignition coil no. 4 (With power transistor)	E4	F89	B/48	: TCM (Transmission control module)
D1	F38	GR/3	: Ignition coil no. 5 (With power transistor)	Knock sensor sub-harness			
D3	F39	GR/3	: Ignition coil no. 6 (With power transistor)	D2	F201	L/4	: To F69
F3	F43	GR/22	: CVT unit	D2	F202	GR/2	: Knock sensor (Bank 1)

HARNESS

< WIRING DIAGRAM >

G2	F49	B/1	: IPDM E/R (Intelligent power distribution module engine room)	D2	F203	GR/2	: Knock sensor (Bank 2)
G2	F50	W/10	: IPDM E/R (Intelligent power distribution module engine room)				

BODY HARNESS



AAMIA0512ZZ

A2	B1	SMJ	: To M6	F4	B53	BR/2	: License plate lamp LH
D4	B3	W/4	: Joint connector-B01	F4	B54	BR/2	: License plate lamp RH

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

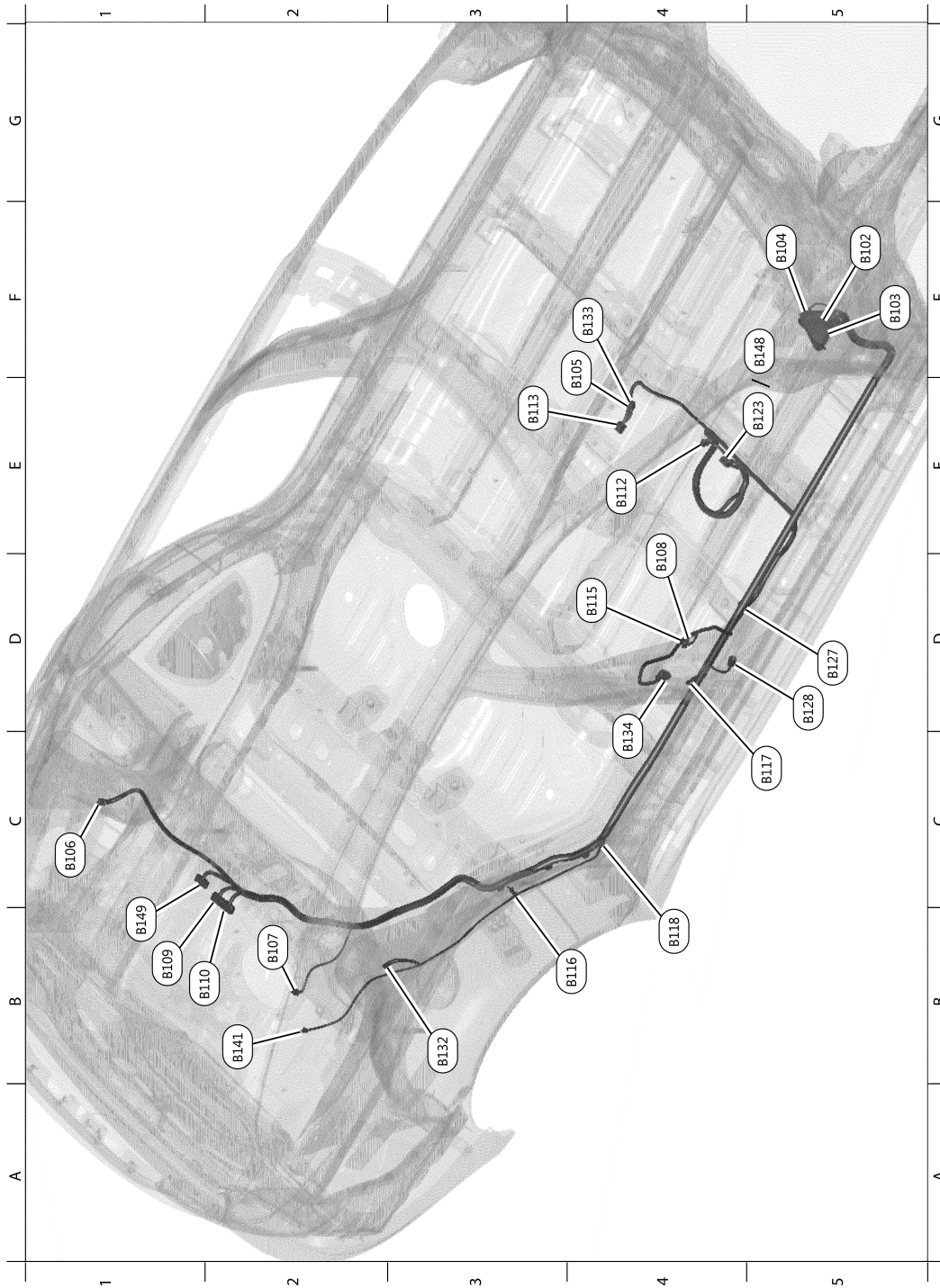
HARNES

< WIRING DIAGRAM >

B2	B4	W/6	: Fuse block (J/B)	D4	B56	L/12	: Joint connector-B15
C3	B6	W/10	: To D201	F4	B58	W/4	: Joint connector-B16
C4	B7	—	: Body ground	F2	B59	—	: Body ground
B3	B8	W/4	: Front door switch LH	D5	B70	W/4	: Fuel lid door lock actuator
C3	B9	Y/22	: Air bag diagnosis sensor unit	D3	B71	Y/2	: LH side curtain air bag module
A2	B10	W/16	: To E29	F3	B72	W/2	: Rear speaker RH
C2	B11	Y/2	: Side air bag module LH	E3	B73	W/2	: Rear speaker LH
B2	B12	W/12	: To B221	C4	B74	O/2	: Front LH seat belt pre-tensioner (Lap belt)
D4	B13	W/4	: Joint connector-B02	B4	B75	Y/2	: Front side air bag satellite sensor LH
C3	B14	Y/2	: Front LH seat belt pre-tensioner (Shoulder belt)	F3	B76	B/6	: Rear view camera
C4	B15	Y/2	: Rear side air bag satellite sensor LH	E5	B77	B/8	: Side radar LH
C4	B18	W/4	: Rear door switch LH	G4	B78	B/8	: Side radar RH
D3	B19	—	: Body ground	F4	B79	W/4	: Joint connector-B04
E3	B22	W/6	: Rear sunshade unit	F4	B80	W/4	: Joint connector-B05
A2	B23	W/8	: Fuse block (J/B)	D4	B81	L/12	: Joint connector-B06
F5	B24	B/4	: To T2	E3	B82	W/4	: Joint connector-B07
G4	B25	GR/2	: Trunk opener request switch	E3	B83	W/4	: Joint connector-B08
E2	B28	W/3	: To B500	C3	B84	W/4	: Joint connector-B09
E3	B29	GR/2	: Inside key antenna (Parcel shelf)	C3	B85	W/4	: Joint connector-B10
E5	B30	W/4	: Rear combination lamp LH	B3	B86	W/4	: Joint connector-B11
E4	B31	B/4	: To C5	C2	B87	W/4	: Joint connector-B12
B2	B32	BR/12	: To B208	D5	B89	W/24	: ADAS control unit
E3	B36	W/2	: Trunk room lamp	C2	B90	W/12	: To B201
F3	B37	B/2	: High-mounted stop lamp (Without rear sunshade)	F4	B91	BR/2	: High-mounted stop lamp (With rear spoiler)
E4	B39	B/2	: EVAP canister vent control valve	Stop lamp sub-harness			
E4	B41	GR/3	: EVAP control system pressure sensor	E3	B500	W/3	: To B28
D4	B42	GR/6	: Fuel level sensor unit and fuel pump	F3	B501	W/2	: High-mounted stop lamp (With rear sunshade)
G4	B43	W/3	: Trunk lamp switch and trunk release solenoid assembly	Chassis harness			
G3	B45	W/4	: Rear combination lamp RH	D4	C1	B/2	: Rear wheel sensor LH
G5	B46	GR/2	: Outside key antenna (Rear bumper)	F4	C2	B/2	: Rear wheel sensor RH
D3	B47	B/1	: Rear window defogger	E4	C5	B/4	: To B31
D3	B48	W/1	: Rear window defogger condenser	Tail harness			
F3	B49	B/1	: Rear window defogger	F5	T2	B/4	: To B24
F4	B51	W/4	: Rear combination lamp LH	E5	T3	B/3	: Rear sonar sensor LH outer
G4	B52	W/4	: Rear combination lamp RH	G4	T4	B/3	: Rear sonar sensor RH outer

HARNESS

< WIRING DIAGRAM >
 BODY NO. 2 HARNESS



AAMIA0514ZZ

F5	B102	W/32	: To M8	B4	B116	W/4	: Rear door switch RH
F5	B103	BR/16	: To M9	C5	B117	—	: Body ground
F5	B104	W/16	: To M10	B4	B118	Y/2	: Rear side air bag satellite sensor RH
F4	B105	W/4	: Joint connector-B03	E5	B123	W/16	: To B300
C1	B106	W/2	: Rear subwoofer RH (With BOSE audio system)	D5	B127	O/2	: Front RH seat belt pre-tensioner (Lap belt)

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

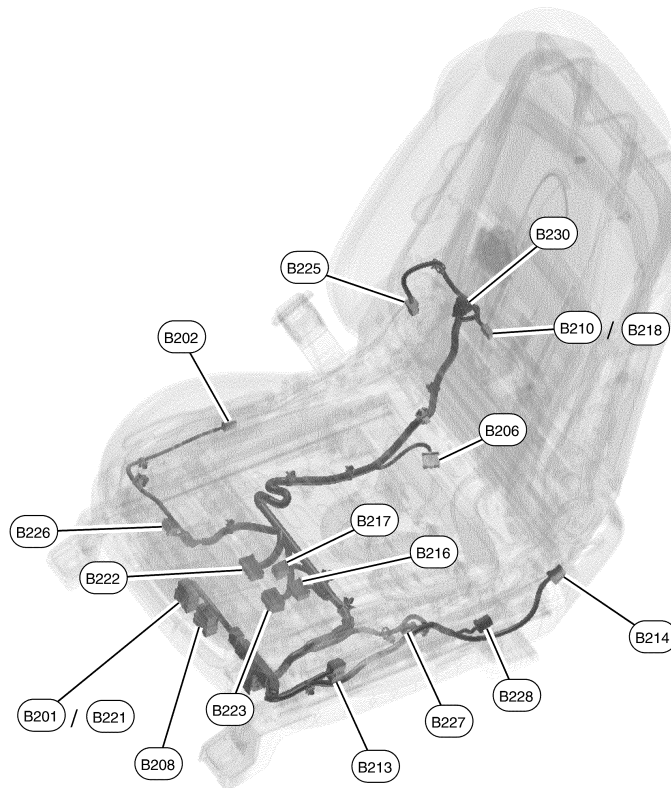
PG

HARNESS

< WIRING DIAGRAM >

B2	B107	W/2	: Rear subwoofer RH (With BOSE audio system)	D5	B128	Y/2	: Front side air bag satellite sensor RH
D4	B108	W/4	: Front door switch RH	B3	B132	—	: Body ground
B1	B109	BR/23	: BOSE speaker amp.	F4	B133	W/4	: Joint connector-B13
B1	B110	BR/14	: BOSE speaker amp.	C4	B134	W/10	: To D306
F4	B112	Y/2	: Side air bag module RH	B2	B141	Y/2	: RH side curtain air bag module
E3	B113	Y/22	: Air bag diagnosis sensor unit	F5	B148	W/16	: To B308
C5	B115	Y/2	: Front RH seat belt pre-tensioner (Shoulder belt)	B1	B149	W/40	: BOSE speaker amp.

FRONT SEAT LH HARNESS



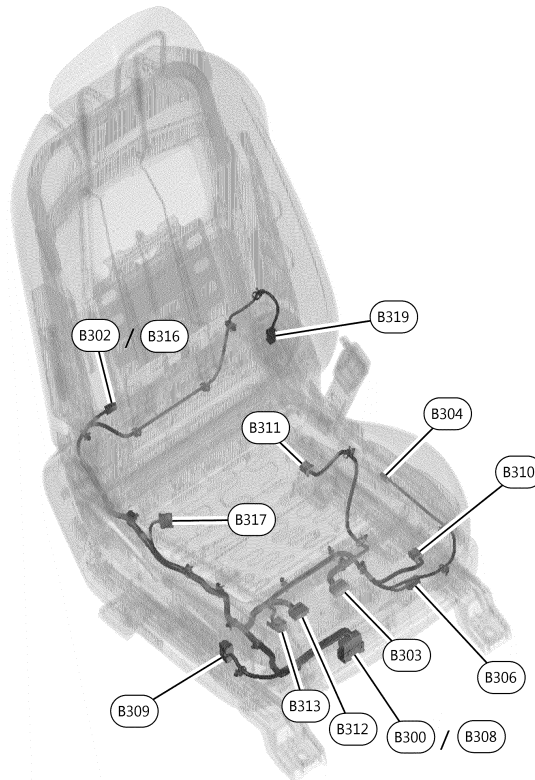
AAMIA0513ZZ

B201	W/12	: To B90	B221	W/12	: To B12
B202	W/4	: Seat belt buckle switch LH	B222	W/32	: Driver seat control unit
B206	GR/8	: Climate controlled seat blower assembly LH	B223	W/12	: Driver seat control unit
B208	BR/12	: To B32	B225	B/6	: Reclining motor LH
B213	W/10	: Power seat switch LH	B226	B/6	: Sliding motor LH
B214	W/4	: Lumbar support switch	B227	B/6	: Lifting motor LH (Front)
B216	W/24	: Climate controlled seat control unit LH	B228	B/6	: Lifting motor LH (Rear)
B217	B/6	: Climate controlled seat control unit LH	B230	W/2	: Lumbar support motor
B218	W/4	: Seat back thermal electric device LH			

HARNESS

< WIRING DIAGRAM >

FRONT SEAT RH HARNESS



AAMIA0541ZZ

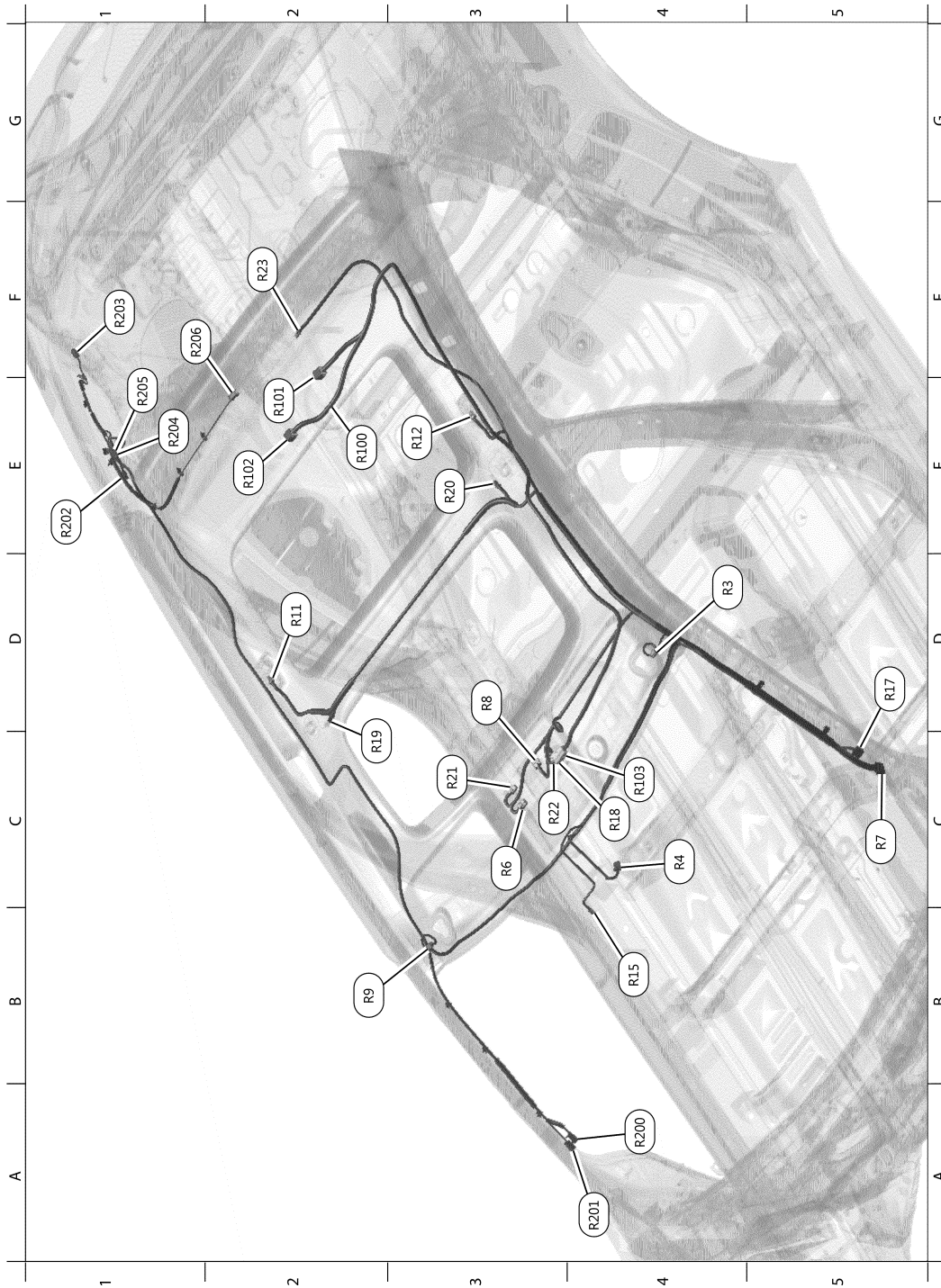
B300	W/16	: To B123	B310	B/3	: Occupant classification system sensor FI
B302	W/3	: Front seat heater RH	B311	B/3	: Occupant classification system sensor RI
B303	B/20	: Occupant classification system control unit	B312	W/24	: Climate controlled seat control unit RH
B304	W/5	: Seat belt buckle switch RH	B313	B/6	: Climate controlled seat control unit RH
B306	B/6	: Sliding motor RH	B316	W/4	: Seat back thermal electric device RH
B308	W/16	: To B148	B317	GR/8	: Climate controlled seat blower assembly RH
B309	W/10	: Power seat switch RH	B319	B/6	: Reclining motor RH

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

HARNESS

< WIRING DIAGRAM >

ROOM LAMP HARNESS



AAMIA0515ZZ

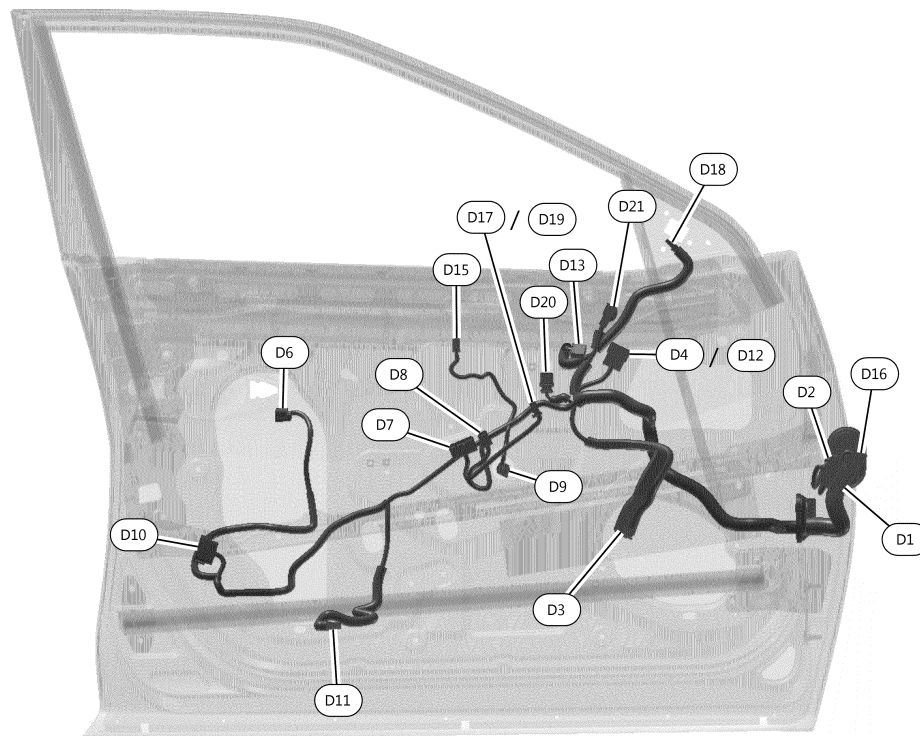
D4	R3	W/2	: Vanity mirror lamp LH	F2	R23	BR/2	: Rear microphone (Active noise control)
C4	R4	B/10	: Auto anti-dazzling inside mirror	Sunroof sub-harness			
C3	R6	W/5	: Moonroof switch	E2	R100	W/4	: Joint connector-R01
C5	R7	W/24	: To M179	E2	R101	GR/10	: Moonroof motor assembly
D3	R8	W/8	: Front room/map lamp assembly	E2	R102	GR/10	: Sunshade motor assembly

HARNESS

< WIRING DIAGRAM >

B2	R9	W/2	: Vanity mirror lamp RH	C4	R103	W/8	: To R18
D2	R11	W/8	: Personal lamp rear RH	Roof antenna harness			
E3	R12	W/8	: Personal lamp rear LH	A4	R200	GR/5	: To M198
B4	R15	B/3	: Rain sensor	A4	R201	BR/2	: To M199
D5	R17	W/6	: To M68	E1	R202	GR/3	: Antenna amp.
C4	R18	W/8	: To R103	F1	R203	B/1	: Antenna
C2	R19	BR/2	: Front right microphone (Active noise control)	E1	R204	BR/2	: To R205
E3	R20	BR/2	: Front left microphone (Active noise control)	E1	R205	BR/2	: To R204
C3	R21	W/8	: Telematics switch	F1	R206	G/2	: Satellite antenna
C3	R22	W/6	: Microphone				

FRONT DOOR LH HARNESS



AAMIA0516ZZ

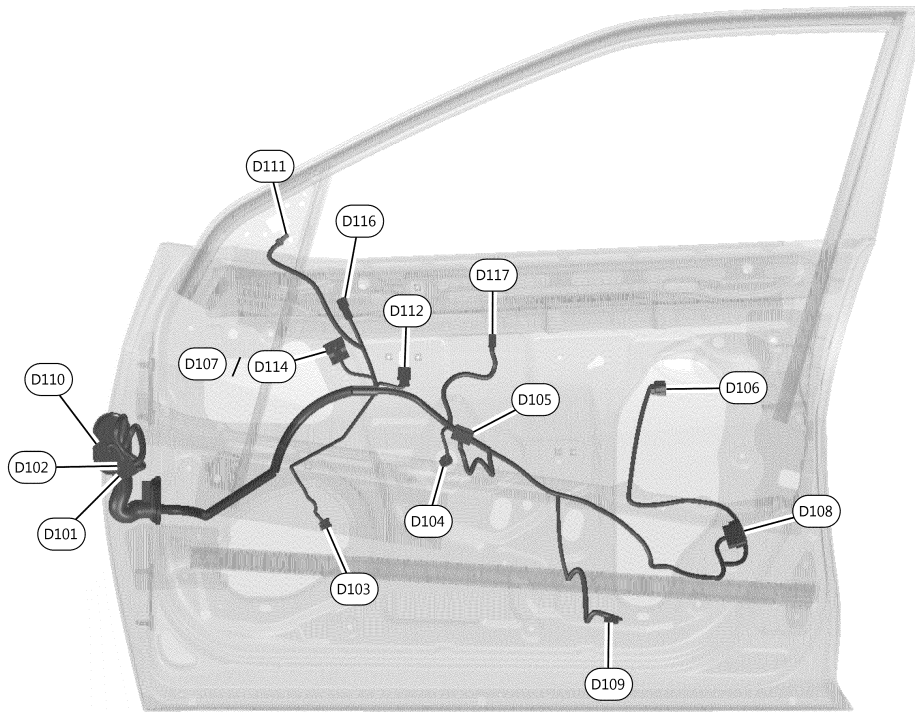
D1	W/16	: To M11	D12	W/24	: Door mirror LH (With automatic drive positioner)
D2	W/40	: To M12	D13	W/16	: Seat memory switch
D3	W/2	: Front door speaker LH	D15	W/4	: Mood lamp (Front door arm rest LH)
D4	W/8	: Door mirror LH (Without automatic drive positioner)	D16	Y/4	: To M91
D6	B/4	: Front outside handle assembly LH	D17	B/16	: Door mirror remote control switch (Without automatic drive positioner)
D7	W/16	: Main power window and door lock/unlock switch	D18	BR/2	: Front door tweeter LH
D8	W/3	: Main power window and door lock/unlock switch	D19	GR/16	: Door mirror remote control switch (With automatic drive positioner)

HARNESS

< WIRING DIAGRAM >

D9	W/6	: Front power window motor LH	D20	Y/2	: Front door satellite sensor LH
D10	GR/6	: Front door lock assembly LH	D21	W/4	: Blind spot warning indicator LH
D11	W/2	: Front step lamp LH			

FRONT DOOR RH HARNESS



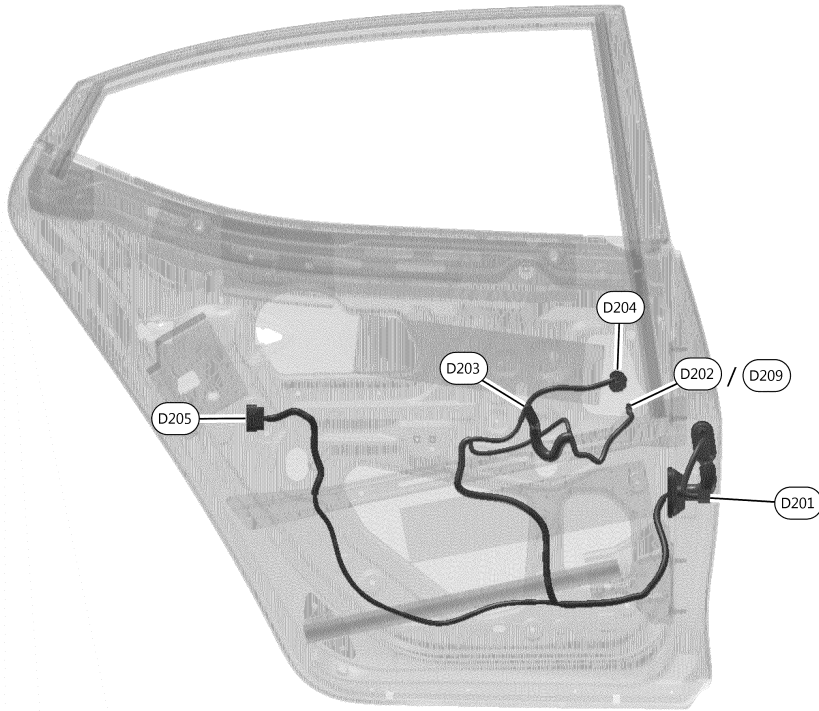
AAMIA0517ZZ

D101	W/10	: To M14	D109	W/2	: Front step lamp RH
D102	W/24	: To M15	D110	Y/4	: To M90
D103	W/2	: Front door speaker RH	D111	BR/2	: Front door tweeter RH
D104	W/6	: Front power window motor RH	D112	Y/2	: Front door satellite sensor RH
D105	W/12	: Power window and door lock/unlock switch RH	D114	W/24	: Door mirror RH (With automatic drive positioner)
D106	B/4	: Front outside handle assembly RH	D116	W/4	: Blind spot warning/blind spot intervention indicator RH
D107	W/8	: Door mirror RH (Without automatic drive positioner)	D117	W/4	: Mood lamp (Front door arm rest RH)
D108	GR/6	: Front door lock actuator RH			

HARNESS

< WIRING DIAGRAM >

REAR DOOR LH HARNESS



AAMIA0518ZZ

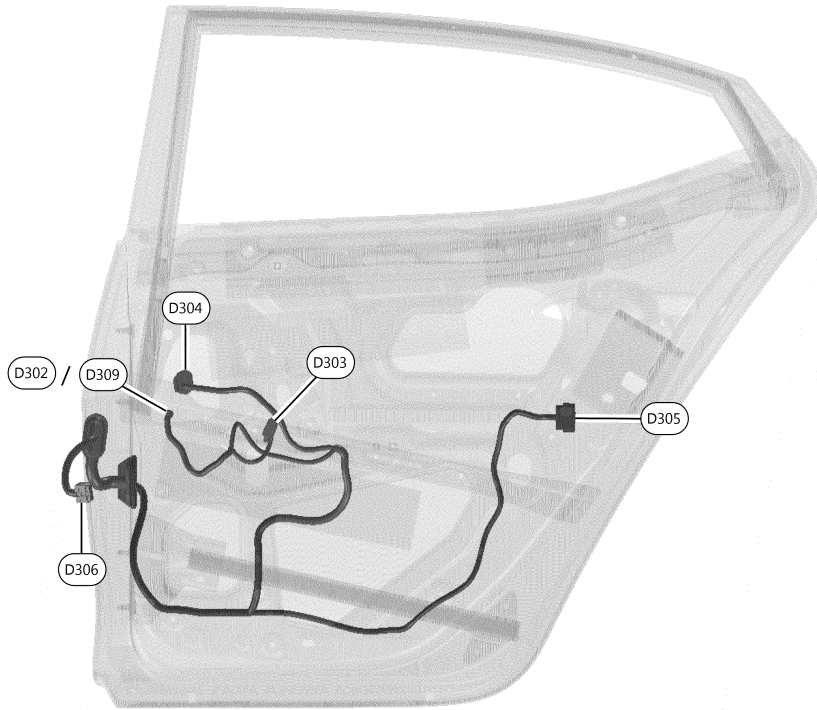
D201	W/10	: To B6	D204	G/6	: Rear power window motor LH
D202	W/2	: Rear door speaker LH (With BOSE audio system)	D205	GR/6	: Rear door lock actuator LH
D203	W/6	: Rear power window switch LH	D209	BR/2	: Rear door speaker LH (Without BOSE audio system)

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

HARNESS

< WIRING DIAGRAM >

REAR DOOR RH HARNESS



AAMIA0519ZZ

D302	W/2	: Rear door speaker RH (With BOSE audio system)	D305	GR/6	: Rear door lock actuator RH
D303	W/6	: Rear power window switch RH	D306	W/10	: To B134
D304	G/6	: Rear power window motor RH	D309	BR/2	: Rear door speaker RH (Without BOSE audio system)

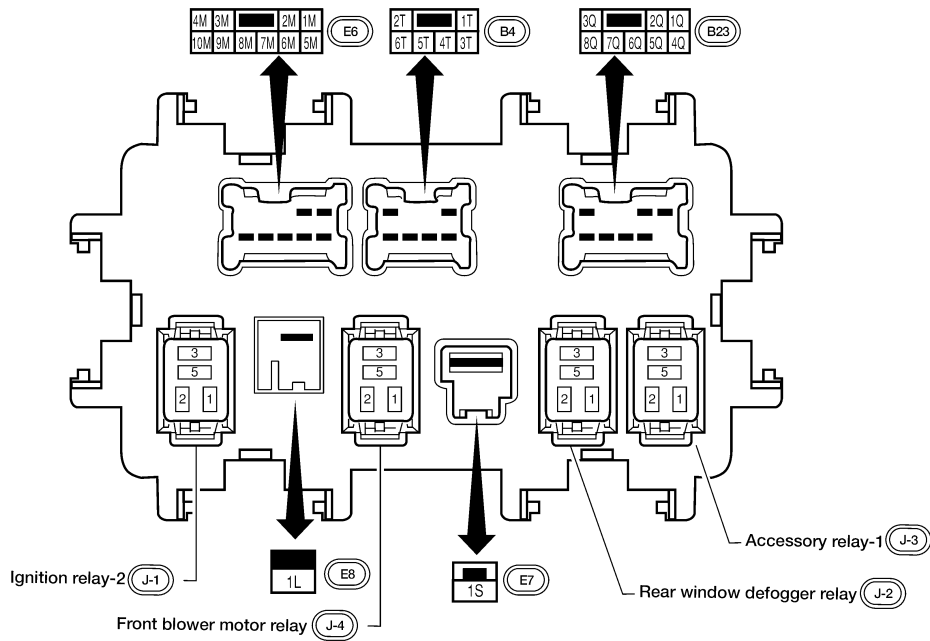
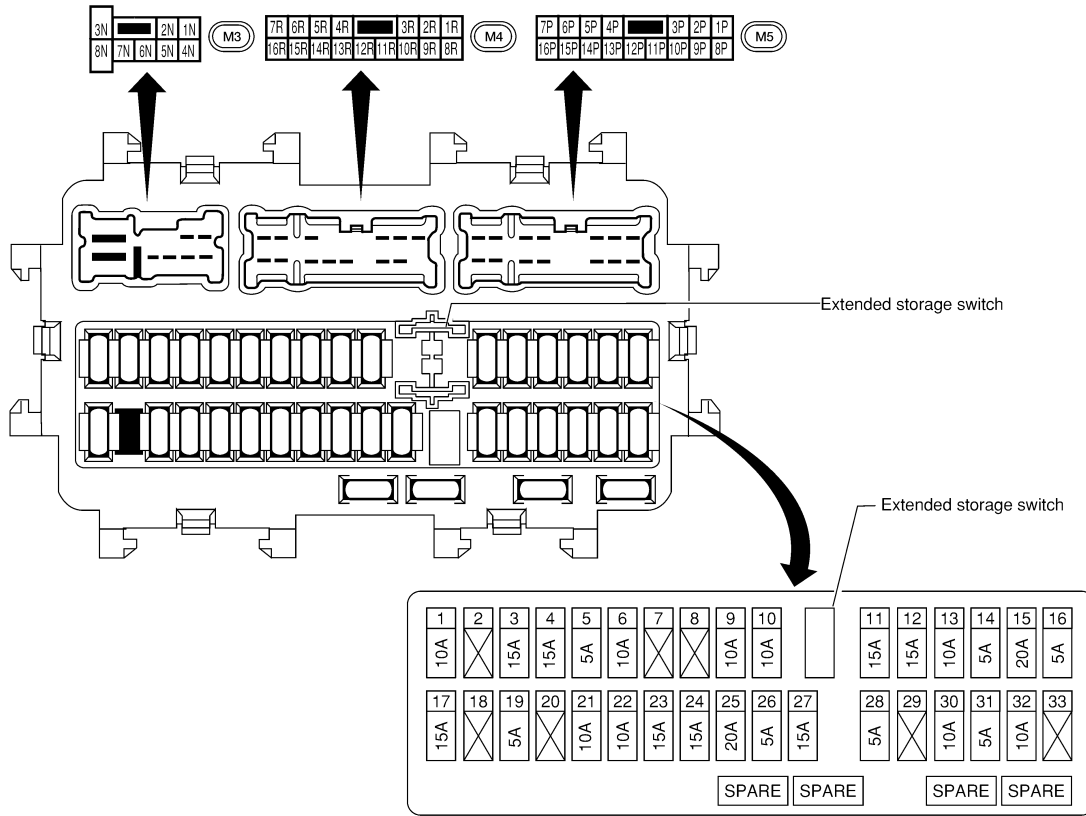
FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:000000011937439



AAMIA3433GB

FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

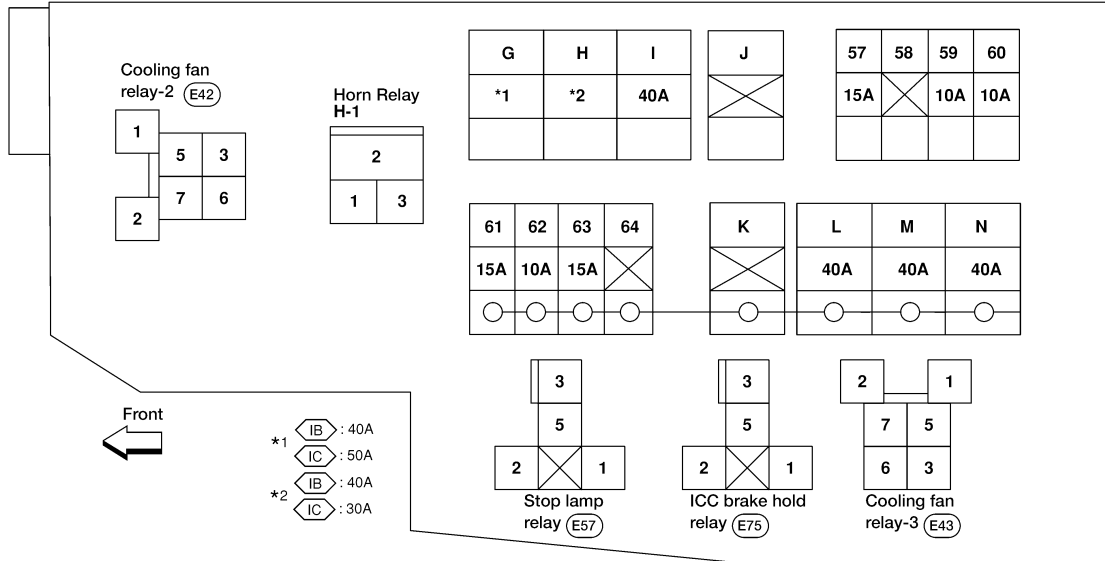
FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

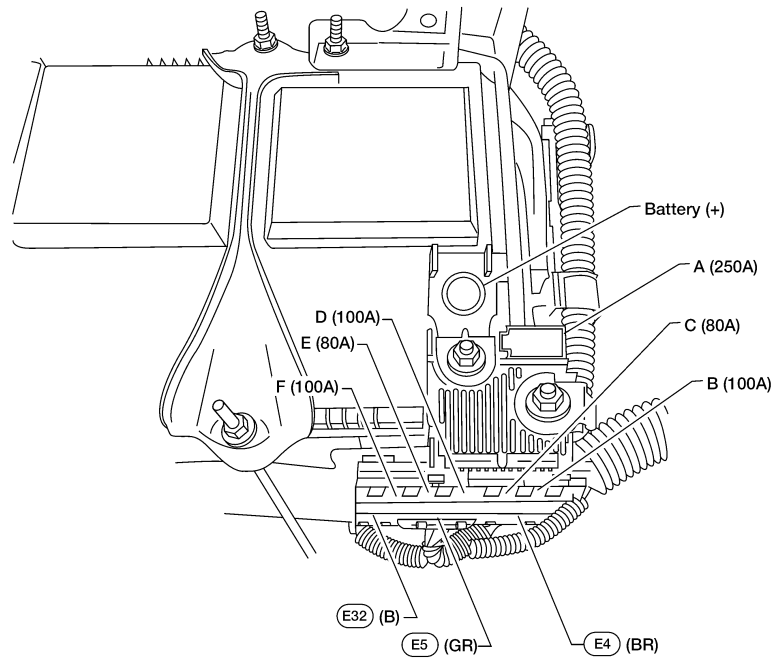
INFOID:000000011937440

FUSE, FUSIBLE LINK AND RELAY BOX

IB: WITHOUT INTELLIGENT CRUISE CONTROL
 IC: WITH INTELLIGENT CRUISE CONTROL



FUSIBLE LINK BOX (BATTERY)



AAMIA3432GB

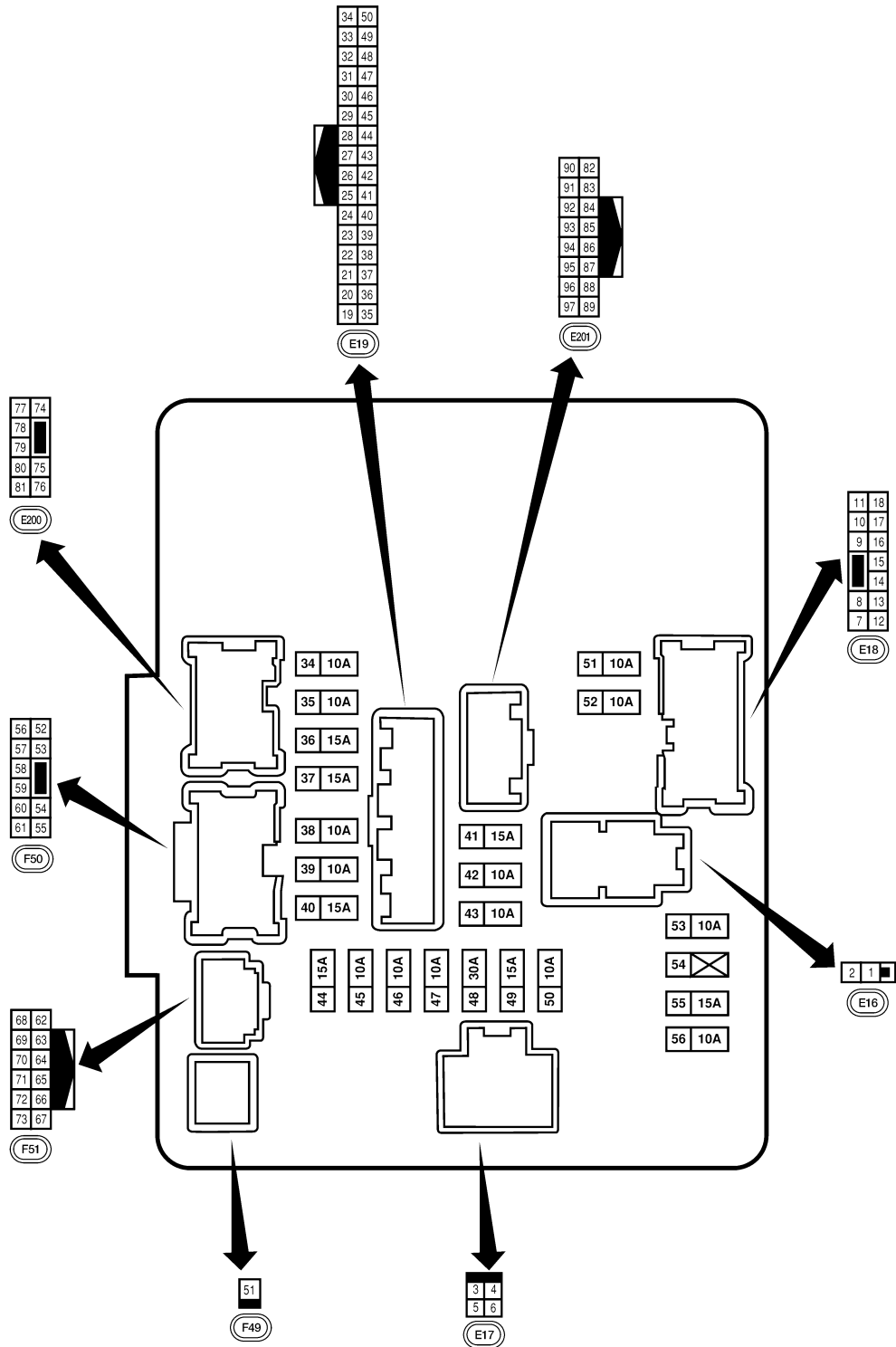
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

Fuse, Connector and Terminal Arrangement

INFOID:000000011937441



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

PG

AAMIA0501ZZ

BATTERY

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY

How to Handle Battery

INFOID:000000011937442

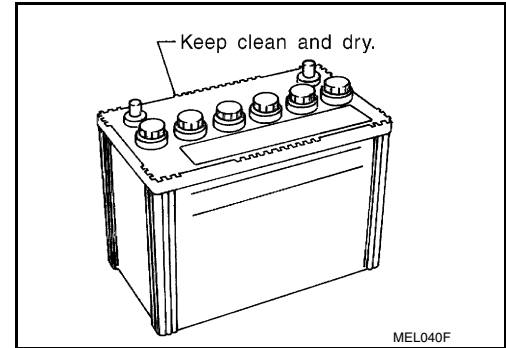
CAUTION:

- 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.

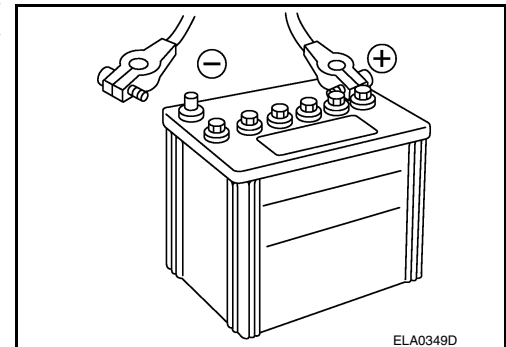
METHODS OF PREVENTING OVER-DISCHARGE

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:000000011937443

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

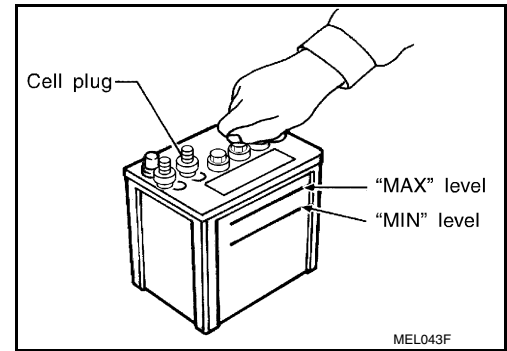
WARNING:

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.

BATTERY

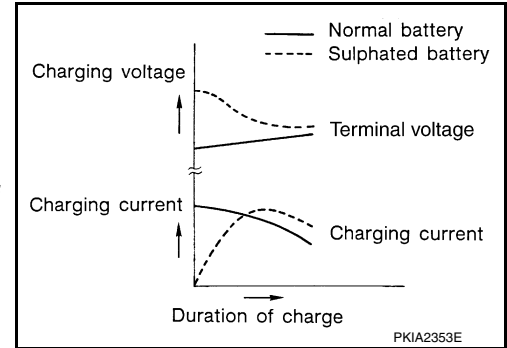
< BASIC INSPECTION >

- 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.**



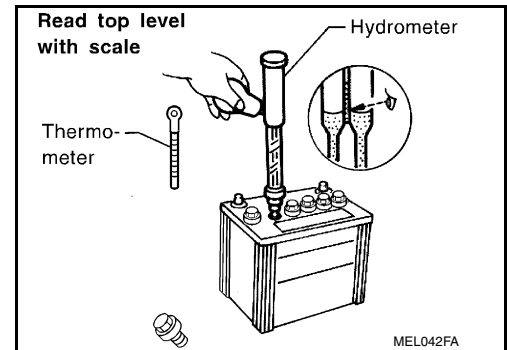
Specific Gravity Check

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

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

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.

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:000000011937444

Required Procedure After Battery Disconnection

System	Item	Reference
Engine Control System	Idle Air Volume Learning	EC-160. "Work Procedure"
Power Window Control System	Power Window System Initialization	PWC-28. "Work Procedure"
Automatic Drive Positioner	Automatic Drive Positioner System Initialization	Refer to Owner's Manual.
Heater & Air Conditioning Control System	Temperature Setting Trimmer	HAC-51. "Temperature Setting Trimmer"
	Foot Position Setting Trimmer	HAC-51. "Foot Position Setting Trimmer"
	Inlet Port Memory Function (FRE)	HAC-52. "Inlet Port Memory Function (FRE)"
	Inlet Port Memory Function (REC)	HAC-52. "Inlet Port Memory Function (REC)"
	Target Evaporator Temp Upper Limit	HAC-52. "Target Evaporator Temp Upper Limit"
Audio, Visual & Navigation System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation System	Refer to Owner's Manual.

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

PG

FUSE INSPECTION

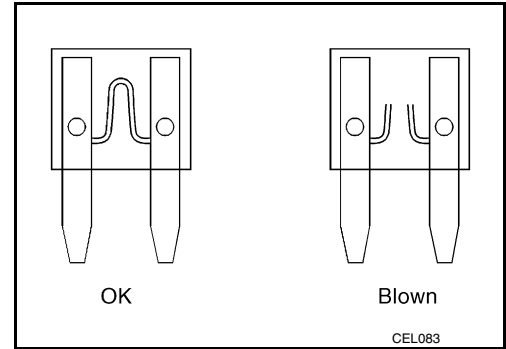
< BASIC INSPECTION >

FUSE INSPECTION

How To Check

INFOID:000000012230017

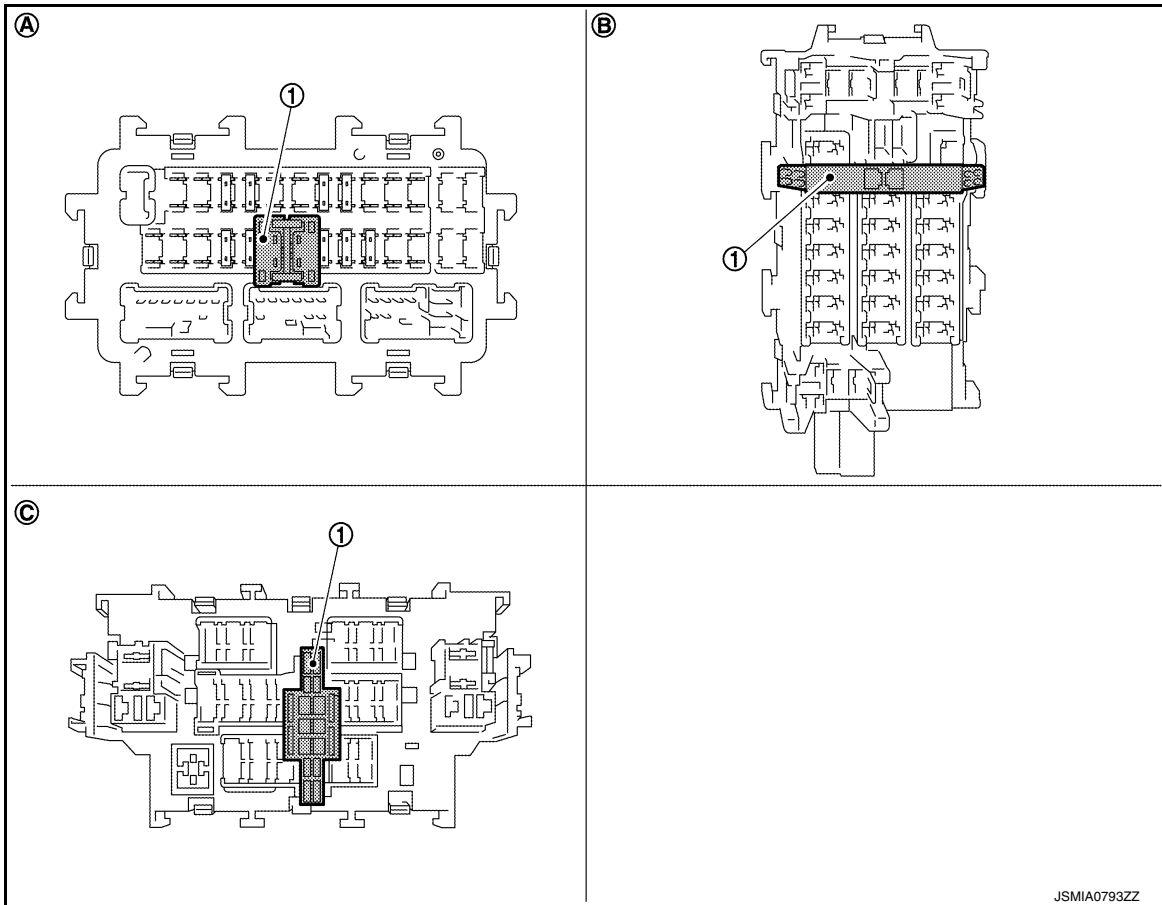
- If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.
- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for "ELECTRICAL PARTS (BAT)" if vehicle is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



EXTENDED STORAGE SWITCH (IF EQUIPPED)

NOTE:

- When extended storage switch is pulled out, a message may be shown in the meter or display. To turn message/display off, push extended storage switch in.
 - The following information is related to extended storage switch (shipping mode). For information related to BCM transit mode, refer to [BCS-15, "SHIPPING MODE CONTROL SYSTEM : System Description"](#).
- The following switch may be mounted on the fuse block (Junction Box) for transportation and storage.



① Extended storage switch

(A) Type A

(B) Type B

(C) Type C

Remove the extended storage switch if it interferes when checking fuses.

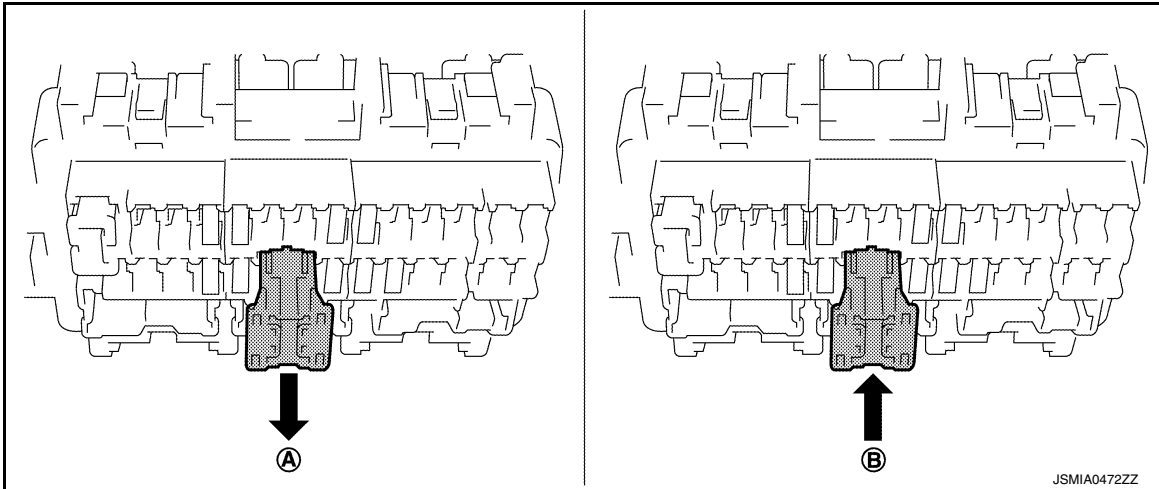
How/When to turn Extended Storage Switch ON/OFF

CAUTION:

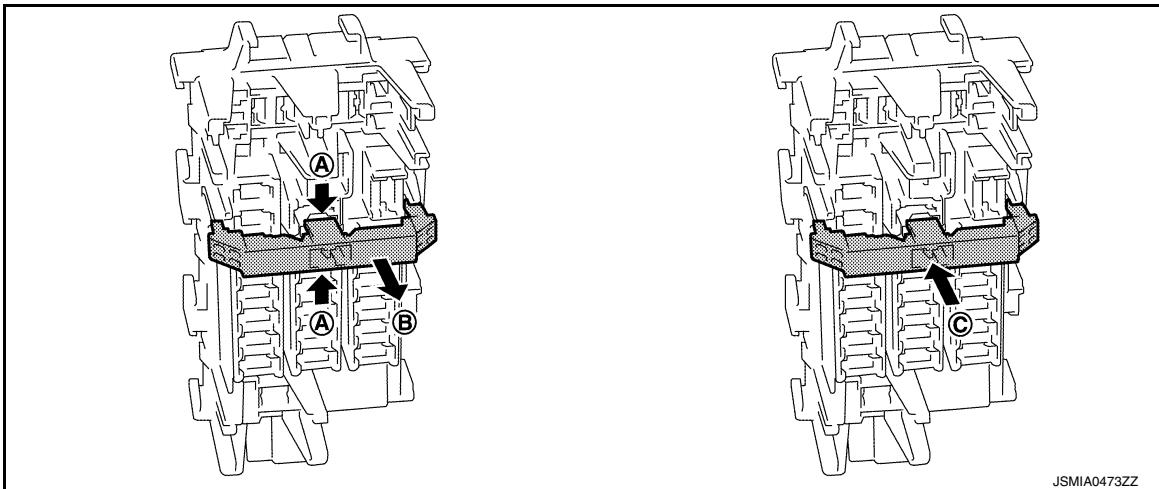
FUSE INSPECTION

< BASIC INSPECTION >

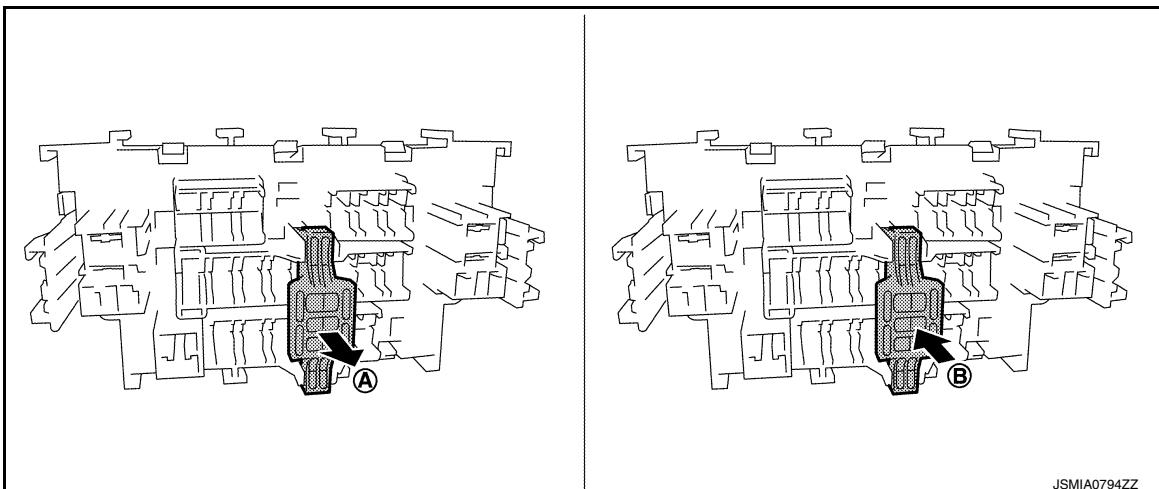
- Turn the ignition switch OFF when operating the extended storage switch.
- Under normal conditions, keep the extended storage switch in ON state. Never operate the extended storage switch except when necessary.
- Type A



- To turn the extended storage switch OFF, pull out in ① direction as shown in the figure.
- To turn the extended storage switch ON, press in ② direction as shown in the figure.
- Type B



- To turn the extended storage switch OFF, pinch tabs ① of the switch and pull out in ② direction as shown in the figure.
- To turn the extended storage switch ON, press in ③ direction as shown in the figure.
- Type C



- To turn the extended storage switch OFF, pull out in ① direction as shown in the figure.
- To turn the extended storage switch ON, press in ② direction as shown in the figure.

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

PG

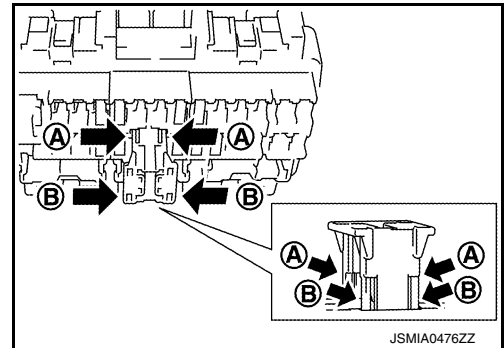
FUSE INSPECTION

< BASIC INSPECTION >

How To Remove Extended Storage Switch

Type A

1. Turn the ignition switch OFF.
2. Turn the extended storage switch OFF.
3. Pinch tabs (A) and tilt to disengage the extended storage switch.
Pinch tabs (B) to remove the extended storage switch.



CAUTION:

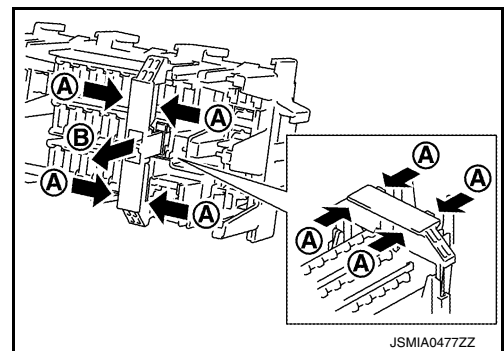
For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.

NOTE:

- Extended storage switch and fuse (or bus bar) are removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

Type B

1. Turn the ignition switch OFF.
2. Turn the extended storage switch OFF.
3. Pinch tabs (A) and firmly pull out the extended storage switch in (B) direction.



CAUTION:

For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.

NOTE:

- Extended storage switch and fuse (or bus bar) may be removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

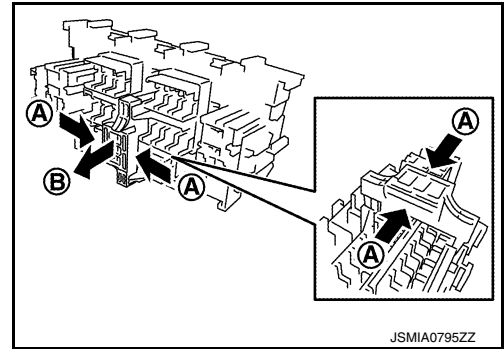
Type C

1. Turn the ignition switch OFF.
2. Turn the extended storage switch OFF.

FUSE INSPECTION

< BASIC INSPECTION >

3. Pinch tabs (A) and firmly pull out the extended storage switch in (B) direction.



CAUTION:

For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.

NOTE:

- Extended storage switch and fuse (or bus bar) are removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

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

PG

FUSIBLE LINK INSPECTION

< BASIC INSPECTION >

FUSIBLE LINK INSPECTION

Fusible Link

INFOID:000000011937446

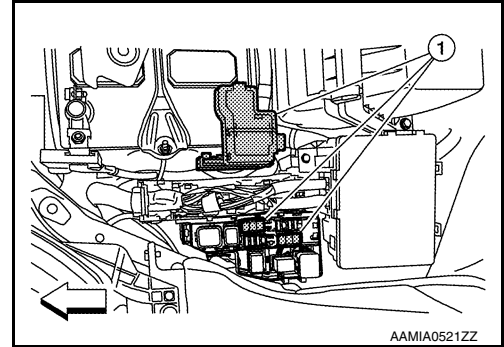
A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

1 : Fusible link

←: Vehicle front

CAUTION:

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



BATTERY

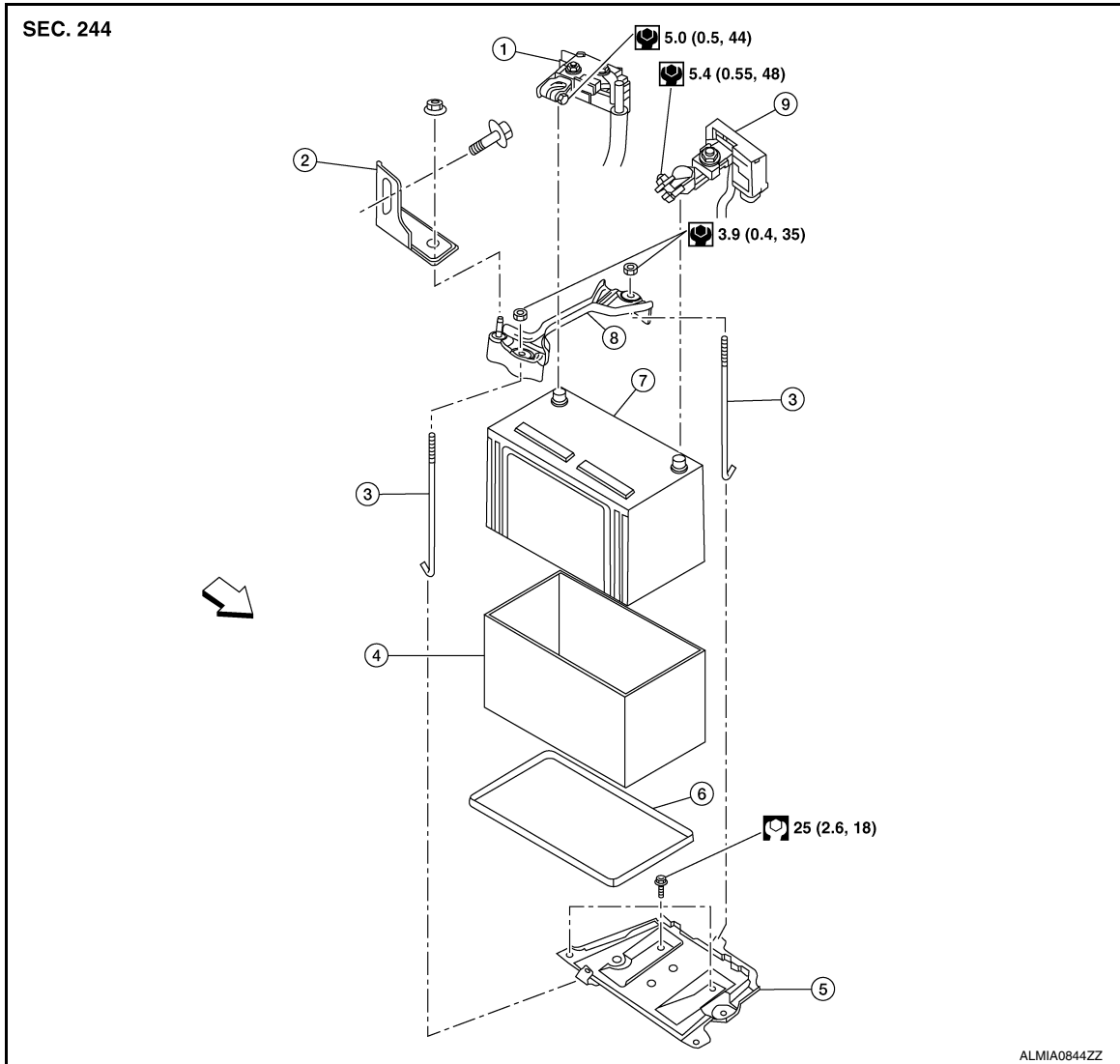
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:0000000011937447



- | | | |
|------------------|----------------------|-----------------------|
| 1. Fusible link | 2. Upper ECM bracket | 3. Battery rods |
| 4. Battery cover | 5. Battery tray | 6. Battery tray liner |
| 7. Battery | 8. Battery frame | 9. Current sensor |
- ⇐ Front

Removal and Installation (Battery)

INFOID:0000000011937448

REMOVAL

1. Disconnect the negative battery terminal.
CAUTION:
To prevent damage to parts, disconnect the negative battery cable from the negative terminal first.
2. Remove the fusible link cover and remove the positive battery terminal.
3. Remove upper ECM bracket nut and bolt and ECM upper bracket.
4. Remove battery rod nuts and battery frame.
5. Remove battery.

BATTERY

< REMOVAL AND INSTALLATION >

INSTALLATION

Installation is in the reverse order of removal.

Battery positive terminal nut : 5.0 N·m (0.5 kg-m, 44 in-lb)

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

CAUTION:

- To prevent damage to parts, connect the positive battery terminal first.
- To securely supply battery voltage, check positive and negative battery terminals for corrosion.
- Reset electronic systems as necessary. Refer to [PG-95, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

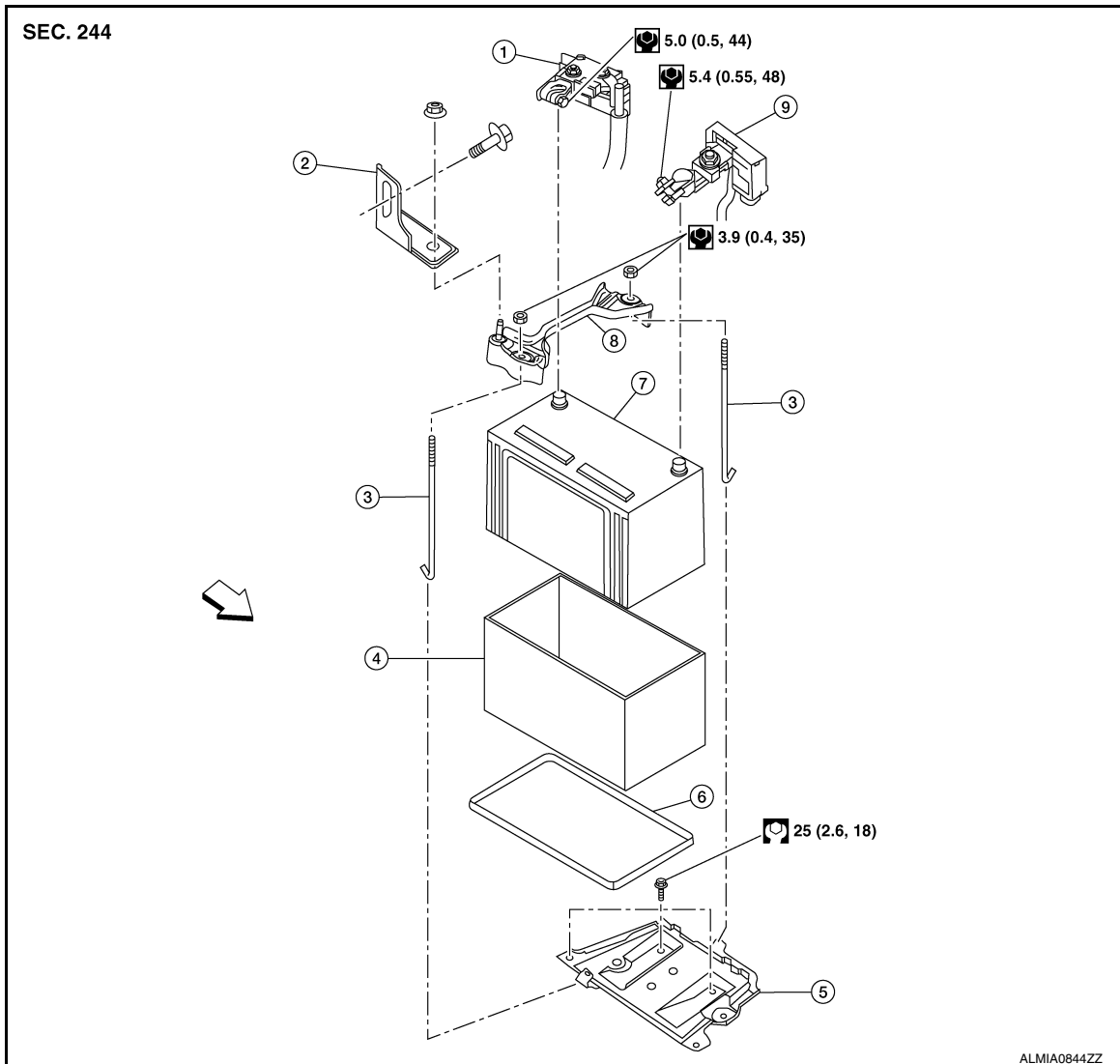
BATTERY TRAY

< REMOVAL AND INSTALLATION >

BATTERY TRAY

Exploded View

INFOID:000000012269745



- | | | |
|------------------|----------------------|-----------------------|
| 1. Fusible link | 2. Upper ECM bracket | 3. Battery rods |
| 4. Battery cover | 5. Battery tray | 6. Battery tray liner |
| 7. Battery | 8. Battery frame | 9. Current sensor |

⇐ Front

PG

Removal and Installation (Battery Tray)

INFOID:000000011937449

REMOVAL

1. Remove battery and battery tray liner. Refer to [PG-101, "Removal and Installation \(Battery\)"](#).
2. Remove air cleaner assembly. Refer to [EM-26, "Removal and Installation"](#).
3. Disconnect the ECM and TCM harness connectors.
4. Remove the nuts and harness clips and remove the ECM, TCM and bracket.
5. Remove current sensor and engine room harness clips from the battery tray.
6. Remove bolts and remove the battery tray.

INSTALLATION

Installation is in the reverse order of removal.

N

O

P

BATTERY TRAY

< REMOVAL AND INSTALLATION >

CAUTION:

- To prevent damage to parts, connect the positive battery terminal first.
- To securely supply battery voltage, check positive and negative battery terminals for corrosion.
- Reset electronic systems as necessary. Refer to [PG-95, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#)

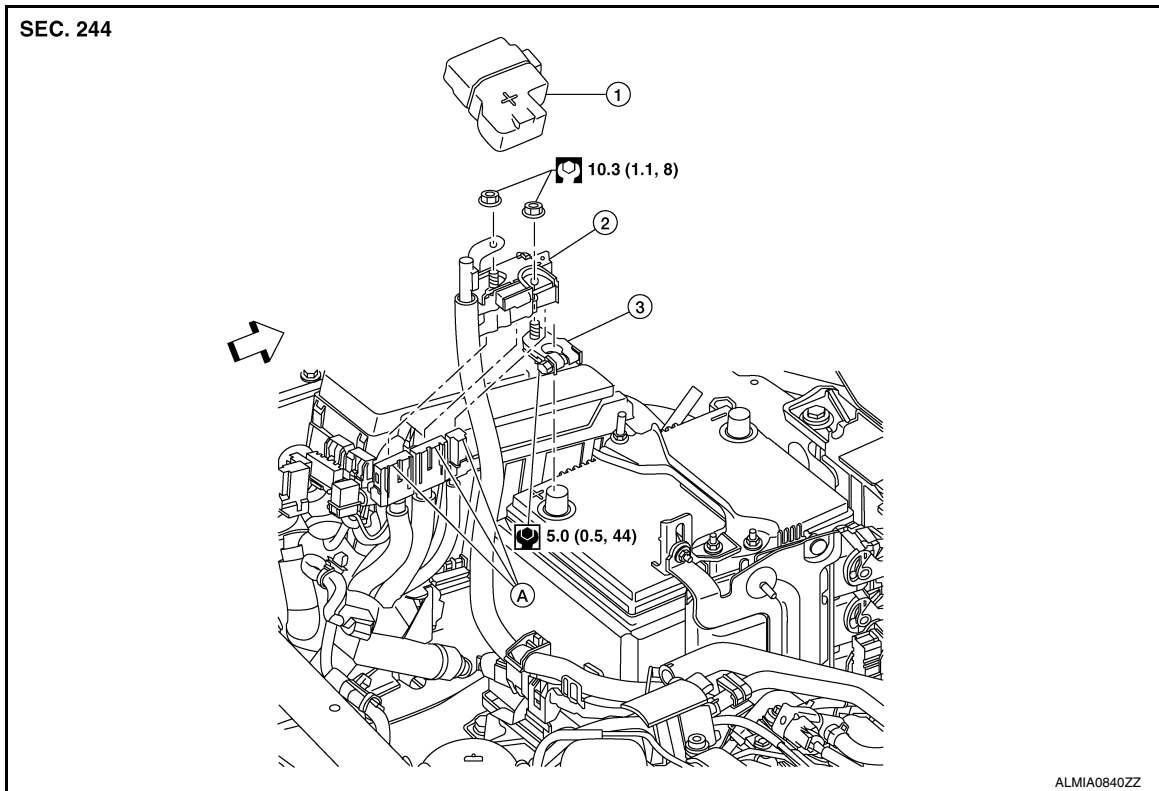
BATTERY TERMINAL WITH FUSIBLE LINK

< REMOVAL AND INSTALLATION >

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:000000012269747



1. Fusible link cover
 2. Fusible link
 3. Positive terminal
- A. Harness connectors
- ⇐ Front

Removal and Installation

INFOID:000000012269748

REMOVAL

1. Disconnect the negative battery terminal.
CAUTION:
To prevent damage to parts, disconnect negative battery terminal first.
2. Remove fusible link cover and disconnect the positive battery terminal.
3. Disconnect the positive cable from the fusible link.
4. Disconnect the harness connectors and remove the fusible link and positive battery terminal.
5. Remove nut and remove fusible link from the positive battery terminal.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- To prevent damage to parts, connect the positive battery terminal first.
- To securely supply battery voltage, check positive and negative battery terminals for corrosion.
- Reset electronic systems as necessary. Refer to **PG-95. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"**

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

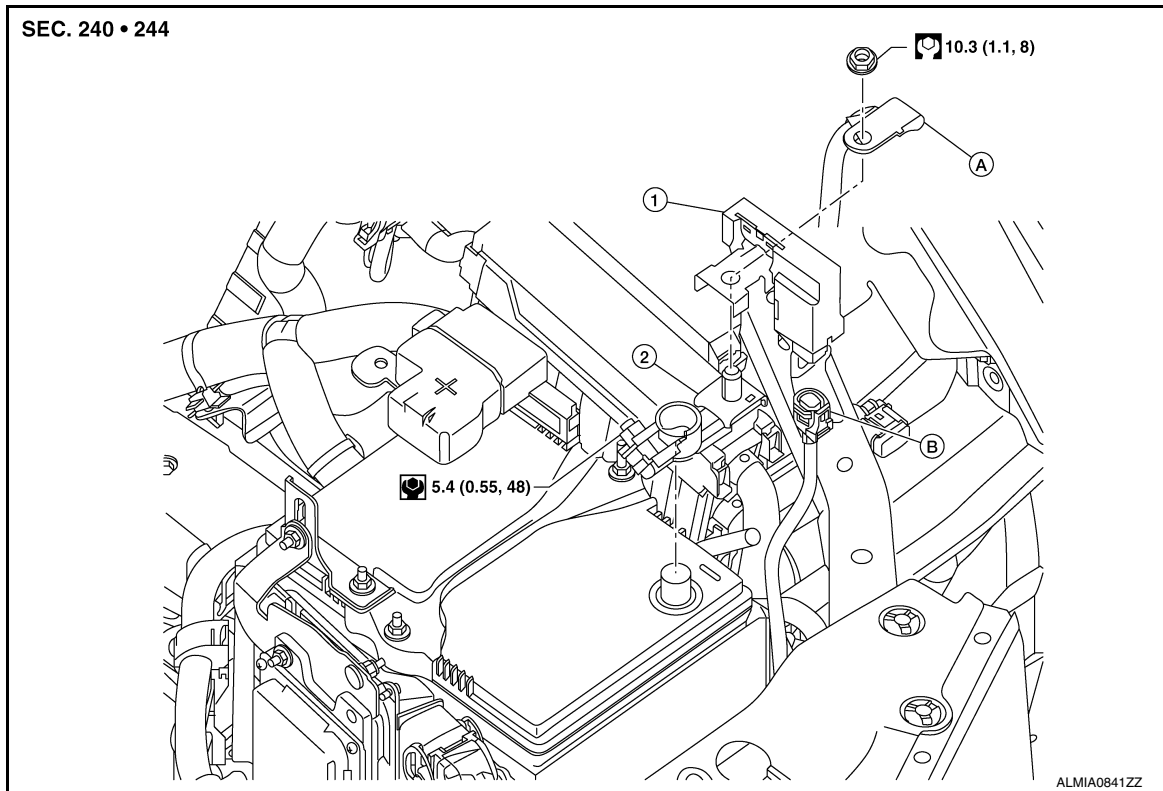
BATTERY CURRENT SENSOR

< REMOVAL AND INSTALLATION >

BATTERY CURRENT SENSOR

Exploded View

INFOID:000000012269749



1. Current sensor 2. Negative terminal A. Negative cable
B. Current sensor harness connector

Removal and Installation

INFOID:000000012269750

REMOVAL

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

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- To securely supply battery voltage, check positive and negative battery terminals for corrosion.
- Reset electronic systems as necessary. Refer to [PG-95, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

BATTERY

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

BATTERY

Battery

INFOID:0000000011937450

Type*		GR35
20 Hour rate capacity	[V - Ah]	12 - 63
Cold cranking current (@ -18°C)	[A]	550

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

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