

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

PRECAUTION	2	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	68
PRECAUTIONS	2	IPDM E/R Terminal Arrangement	68
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"	2	BASIC INSPECTION	69
PREPARATION	3	BATTERY	69
PREPARATION	3	How to Handle Battery	69
Special Service Tool	3	Work Flow	69
Commercial Service Tool	3	INSPECTION AND ADJUSTMENT	72
SYSTEM DESCRIPTION	4	ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL	72
ELECTRICAL UNITS LOCATION	4	ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement	72
Electrical Units Location	4	FUSE INSPECTION	73
COMPONENT PARTS	7	How To Check	73
Circuit Breaker (External to BCM)	7	FUSIBLE LINK INSPECTION	77
Harness Connector	7	Fusible Link	77
Standardized Relay	10	REMOVAL AND INSTALLATION	78
WIRING DIAGRAM	13	BATTERY	78
POWER SUPPLY ROUTING CIRCUIT	13	Exploded View	78
Wiring Diagram — Battery Power Supply —	13	Removal and Installation (Battery)	78
Wiring Diagram — Accessory Power Supply —	21	Removal and Installation (Battery Tray)	79
Wiring Diagram — Ignition Power Supply —	24	BATTERY TERMINAL WITH FUSIBLE LINK ...	80
GROUND	34	Exploded View	80
Ground Distribution	34	Removal and Installation	80
HARNESS	42	SERVICE DATA AND SPECIFICATIONS (SDS)	81
Harness Layout	42	SERVICE DATA AND SPECIFICATIONS (SDS)	81
FUSE BLOCK - JUNCTION BOX (J/B)	64	Battery	81
Terminal Arrangement	64		
FUSE, FUSIBLE LINK AND RELAY BOX	65		
Terminal Arrangement	65		

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

PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000011373288

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.

PREPARATION

< PREPARATION >


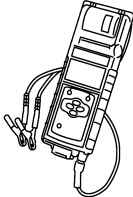
PREPARATION

PREPARATION

Special Service Tool


INFOID:000000011280941

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

Tool number (TechMate No.) Tool name	Description
<p>— (165-GR8-1200KIT-NI) Nissan battery and electronics tester</p>  <p style="text-align: right; font-size: small;">AWI1A12392Z</p>	<p>Testing batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.</p>
<p>— (165-EXP-800 NI) Midtronic hand-held battery tester</p>  <p style="text-align: right; font-size: small;">JSMIA08062Z</p>	<p>Testing batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.</p>

Commercial Service Tool

INFOID:000000011280942

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

A

B

C

D

E

F

G

H

I

J

K

L

PG

N

O

P

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >

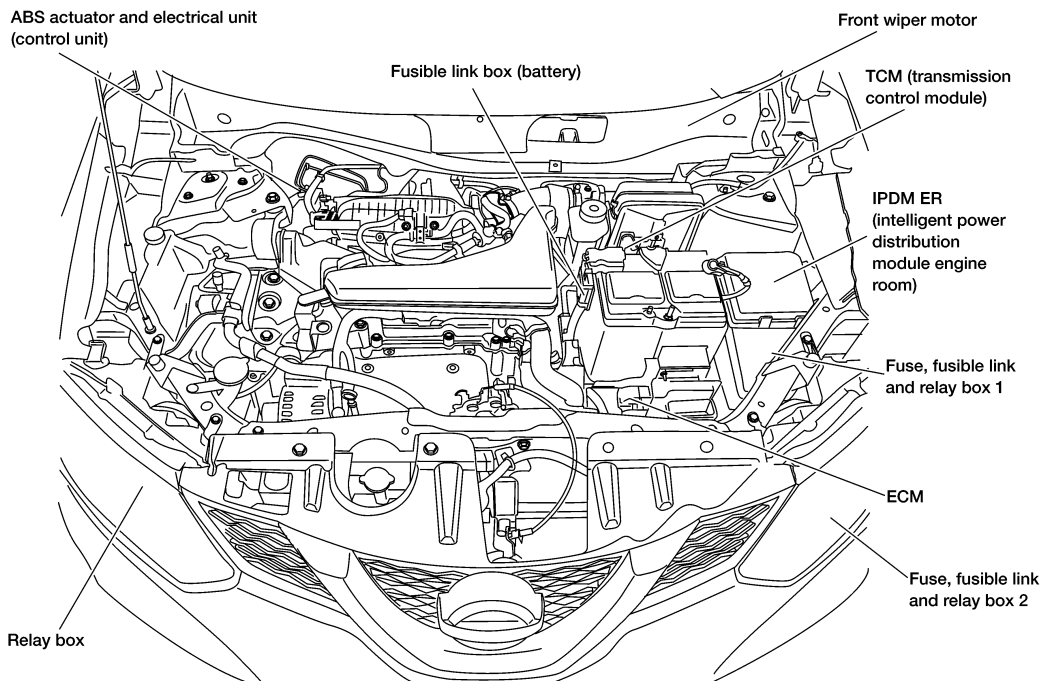
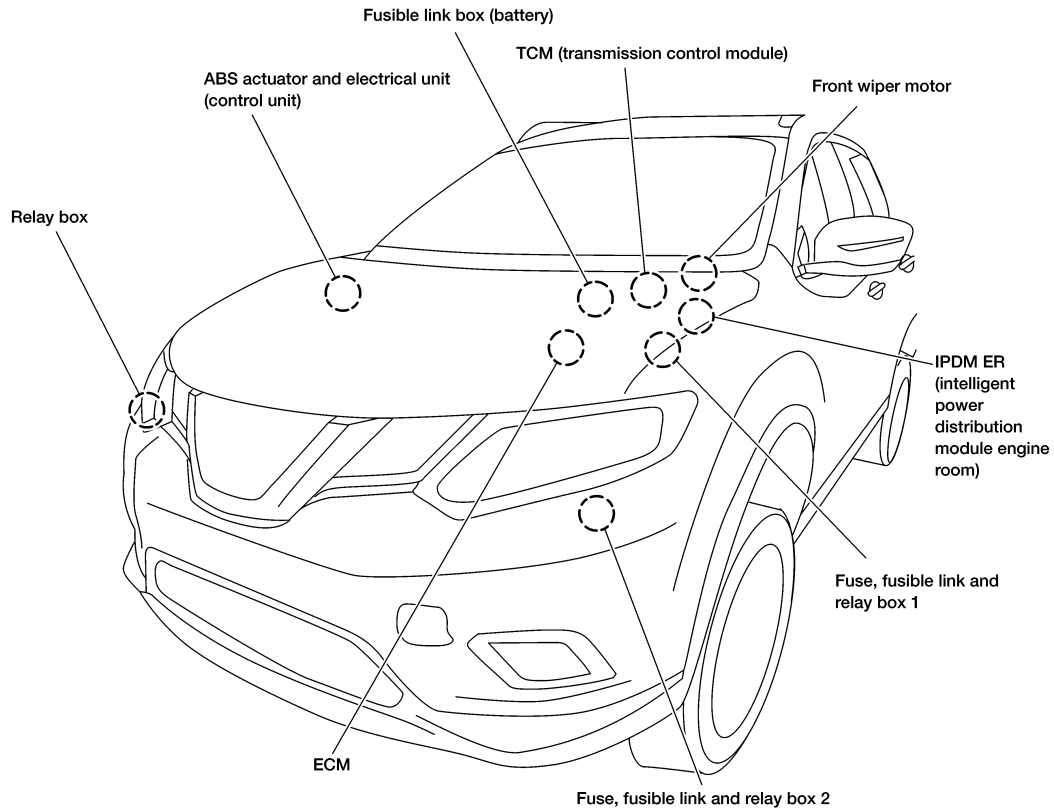
SYSTEM DESCRIPTION

ELECTRICAL UNITS LOCATION

Electrical Units Location

INFOID:000000011280943

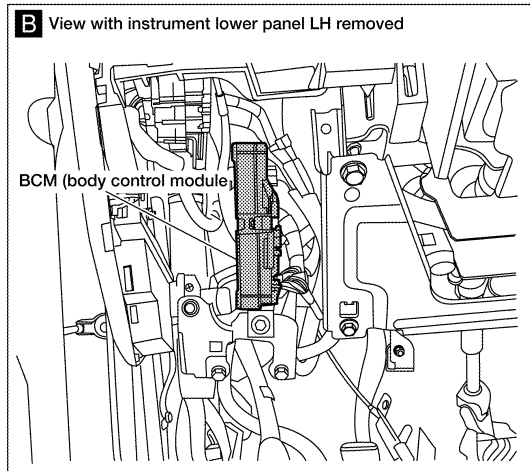
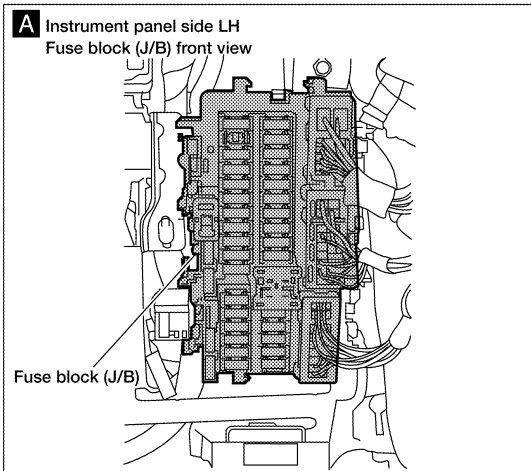
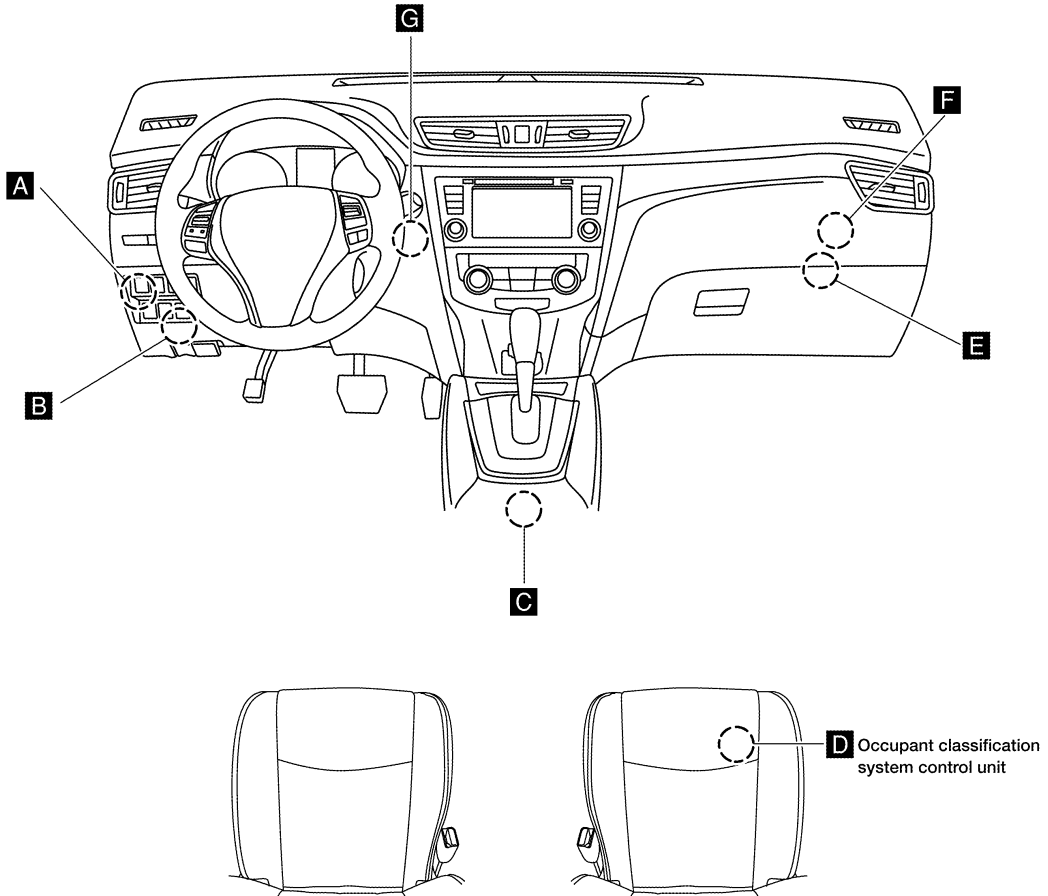
ENGINE COMPARTMENT



AAMIA2857GB

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >
 PASSENGER COMPARTMENT

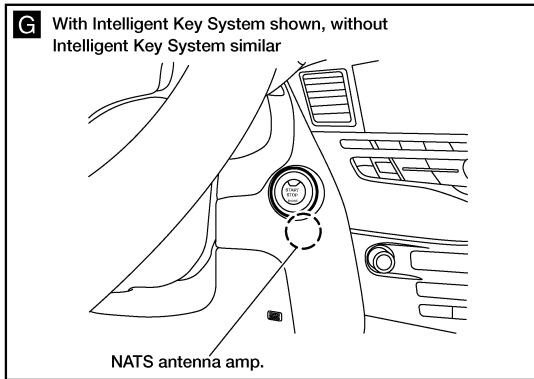
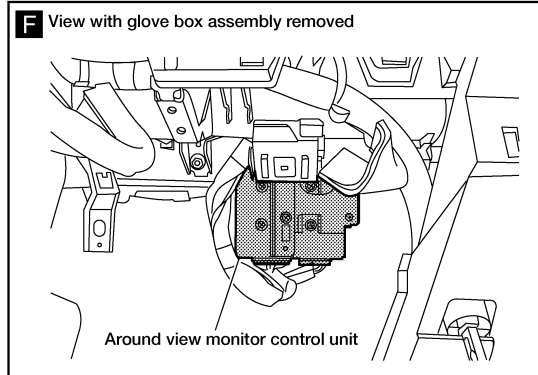
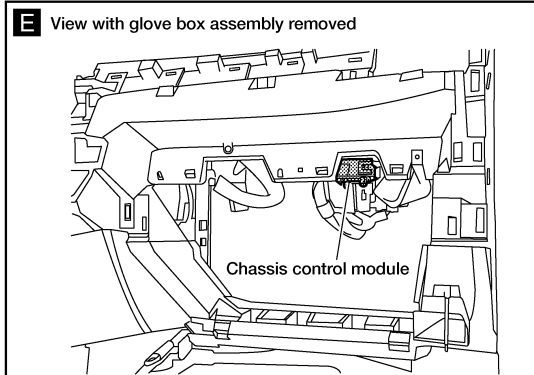
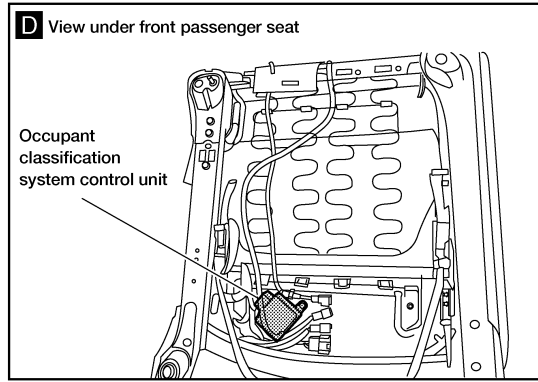
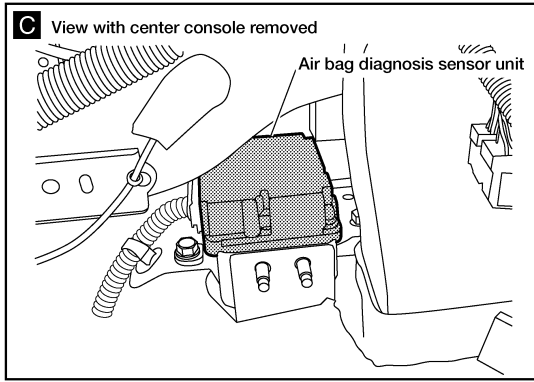


AAMIA2340GB

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

ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >



AAMIA2341GB

COMPONENT PARTS

< SYSTEM DESCRIPTION >

COMPONENT PARTS

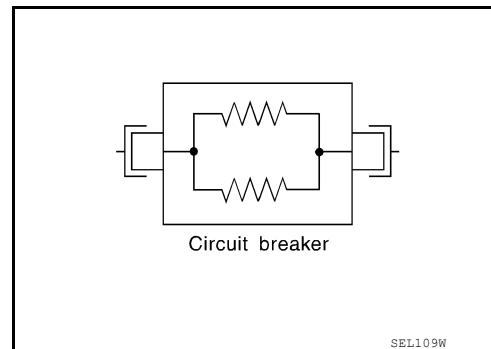
Circuit Breaker (External to BCM)

INFOID:000000011280944

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

This circuit breaker is used for the following systems:

- Power seats
- Power moonroof
- Power windows
- Power lumbar
- Power back door



Harness Connector

INFOID:000000011280945

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.

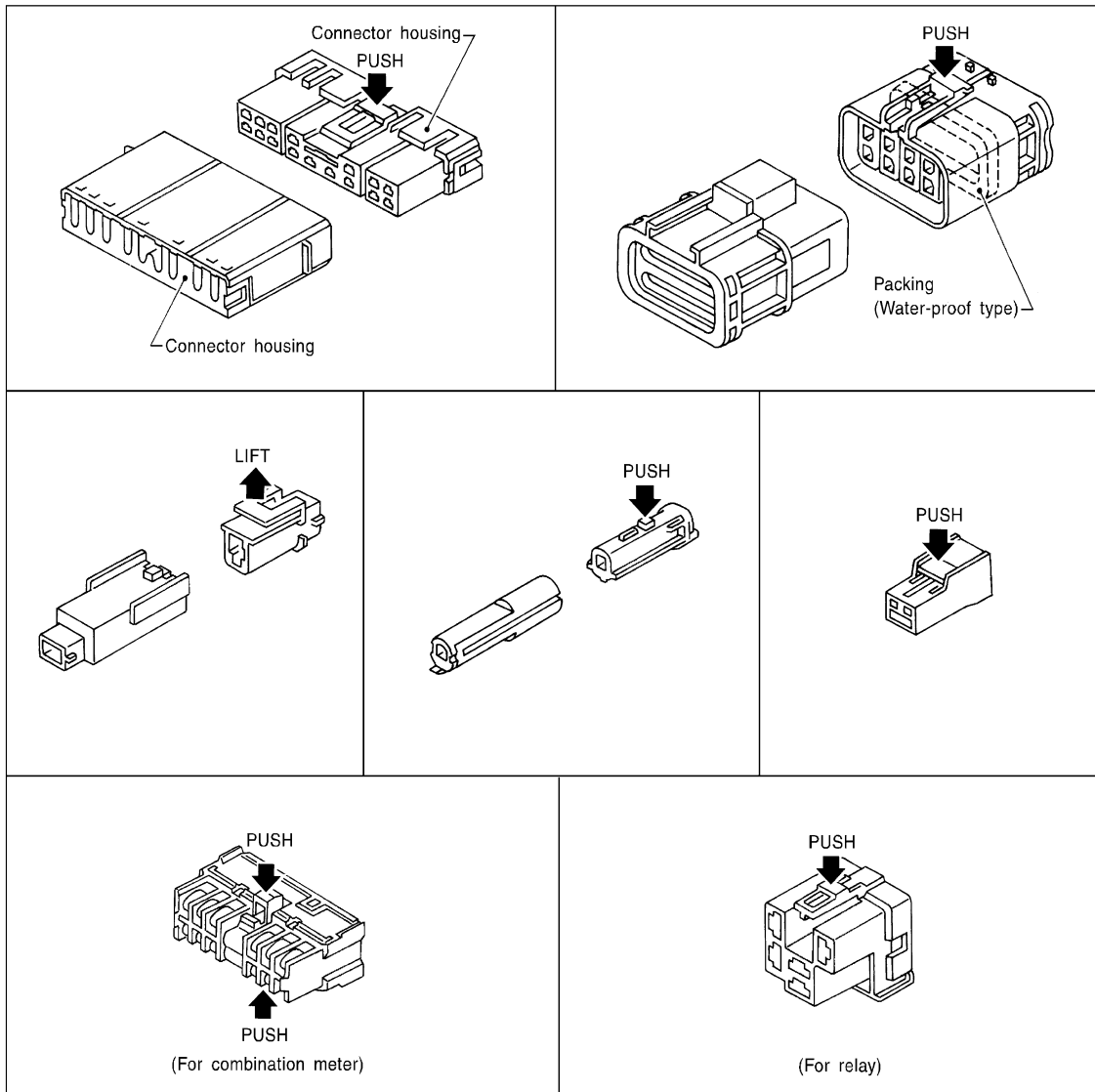
CAUTION:

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

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.

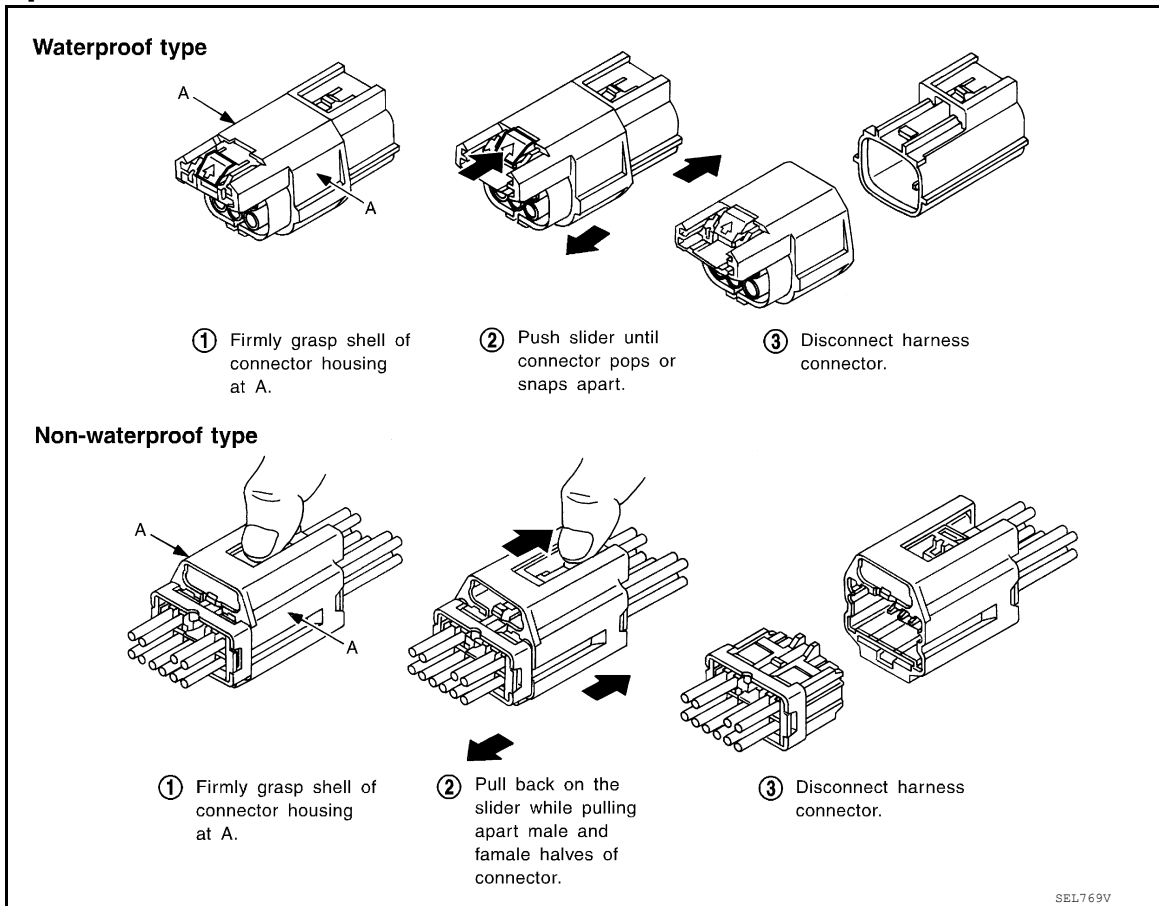
CAUTION:

- **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:

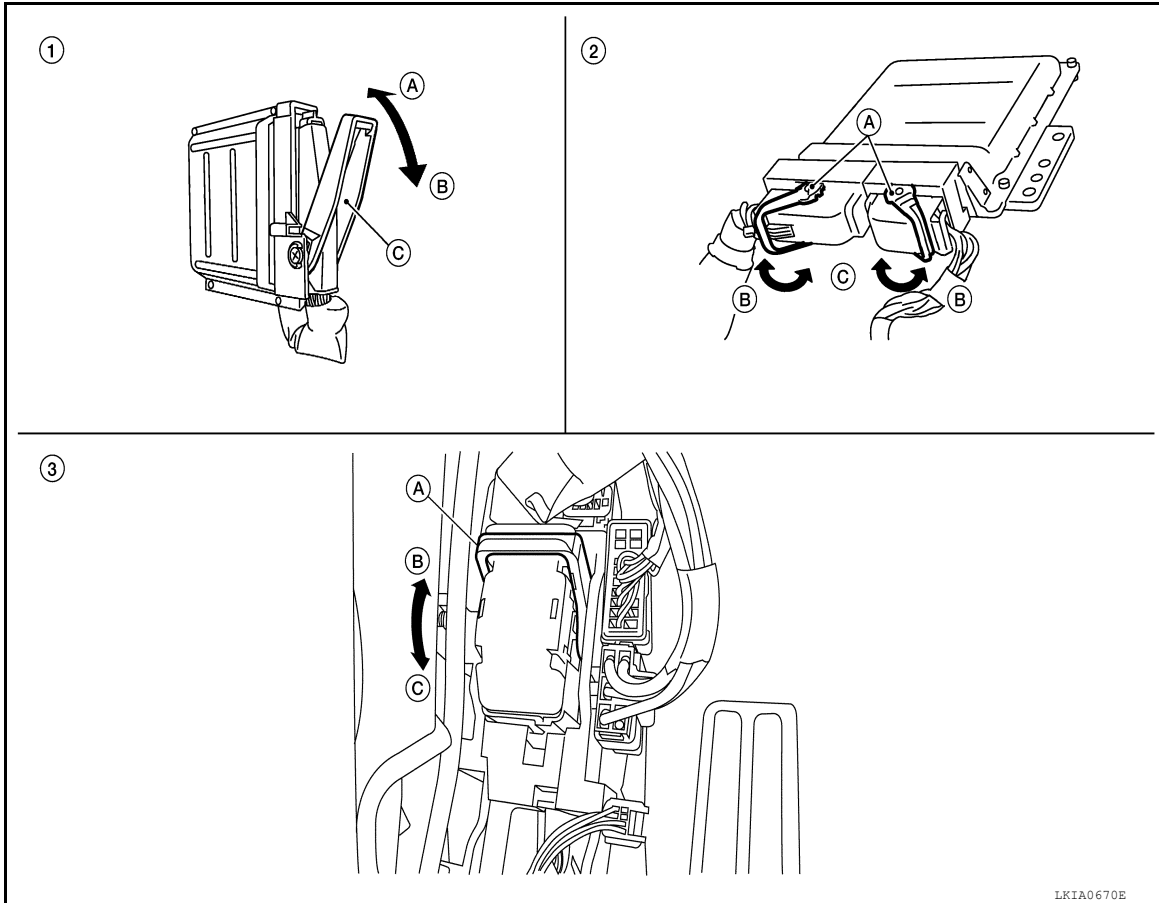
A
B
C
D
E
F
G
H
I
J
K
L
N
O
P

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.



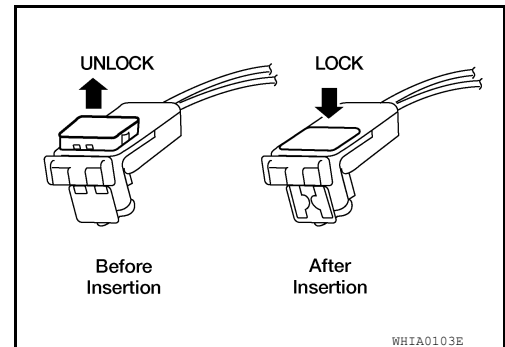
- | | | |
|-----------------------------------|---------------------------------|------------------|
| 1. Control unit with single lever | 2. Control unit with dual lever | 3. SMJ connector |
| A. Fasten | A. Lever | A. Lever |
| B. Loosen | B. Fasten | B. Fasten |
| C. Lever | C. Loosen | C. Loosen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

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

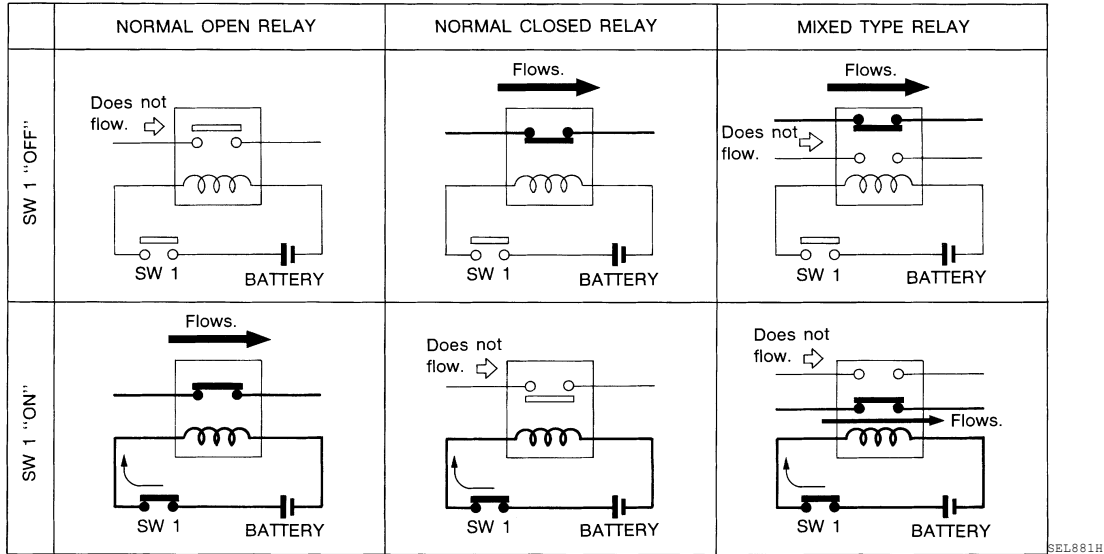
INFOID:000000011280946

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

COMPONENT PARTS

< SYSTEM DESCRIPTION >

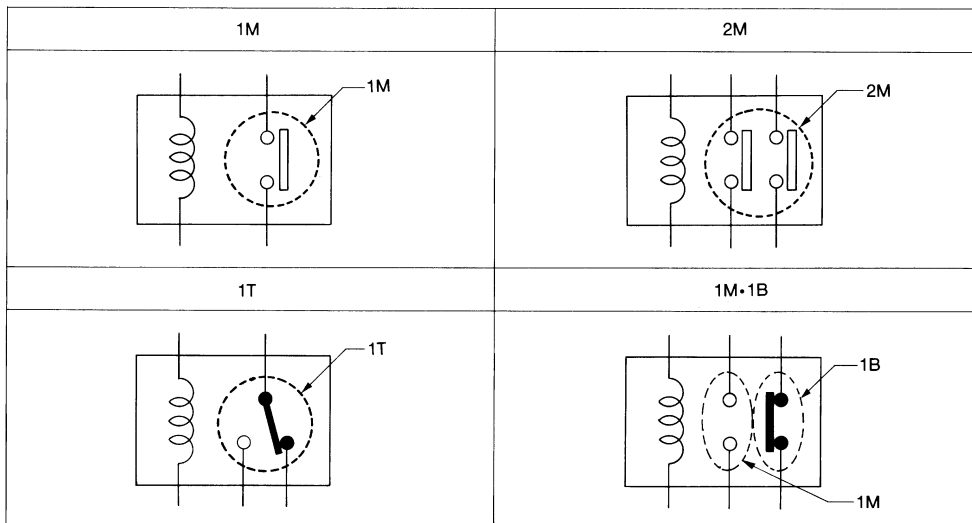
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPE OF STANDARDIZED RELAYS

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

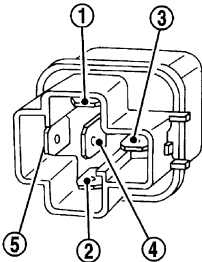
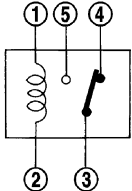
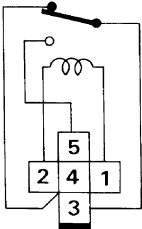
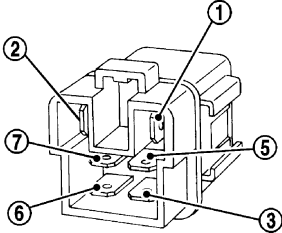
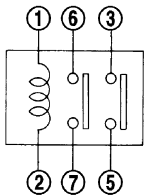
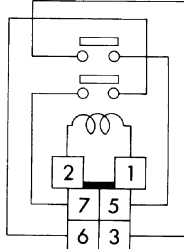
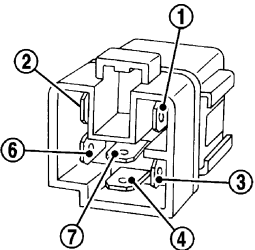
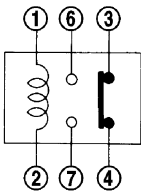
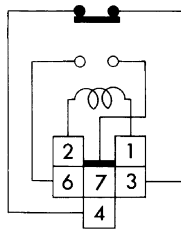
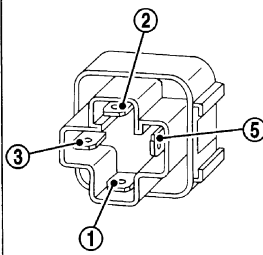
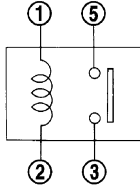
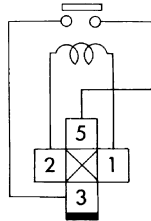
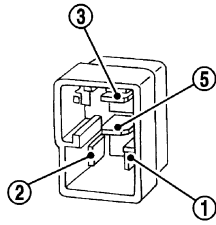
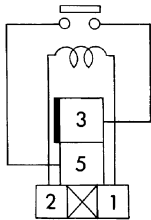


SEL882H

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 >

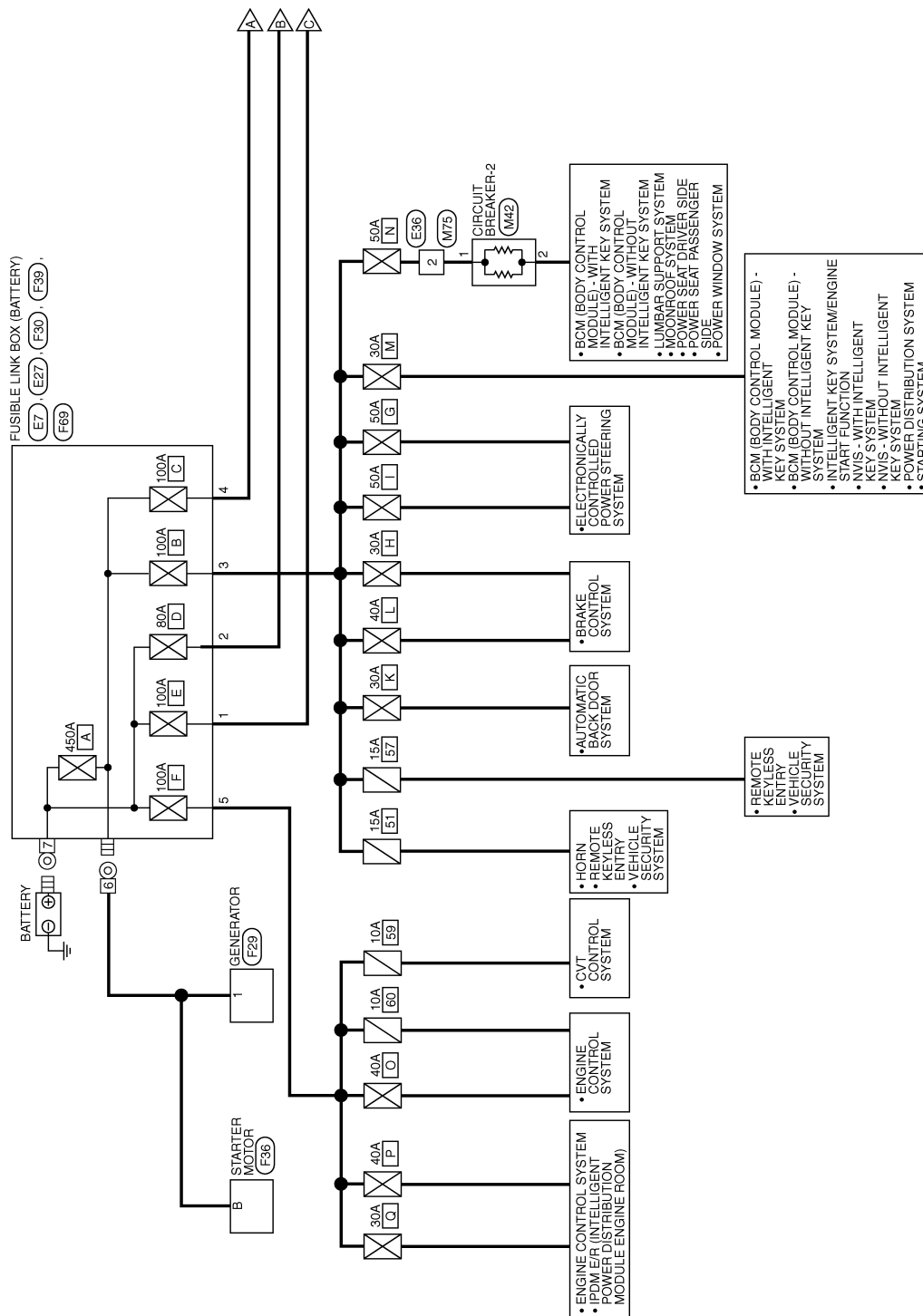
WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram —Battery Power Supply—

INFOID:000000011280947

BATTERY POWER SUPPLY

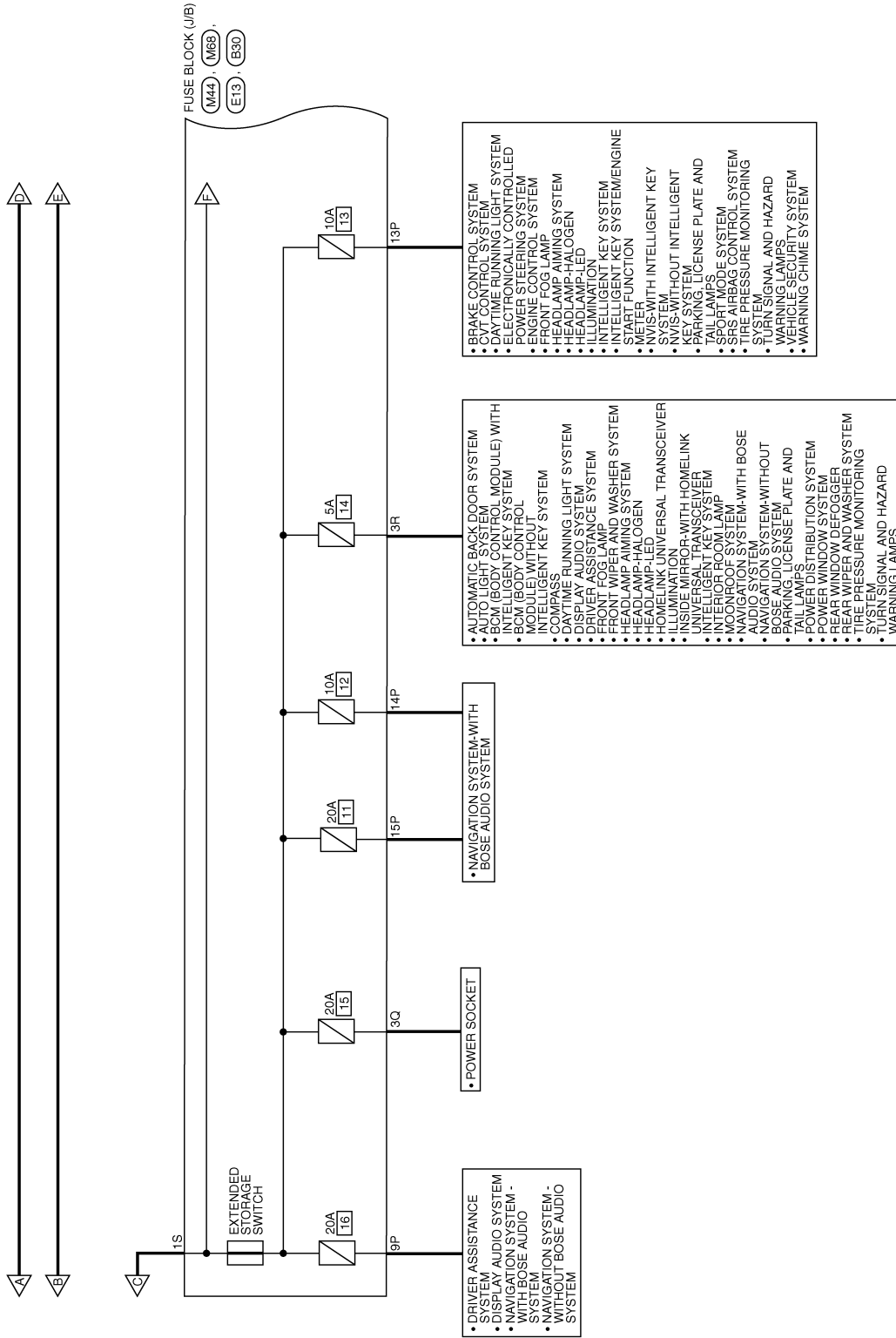


AAMWA1442GB

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

POWER SUPPLY ROUTING CIRCUIT

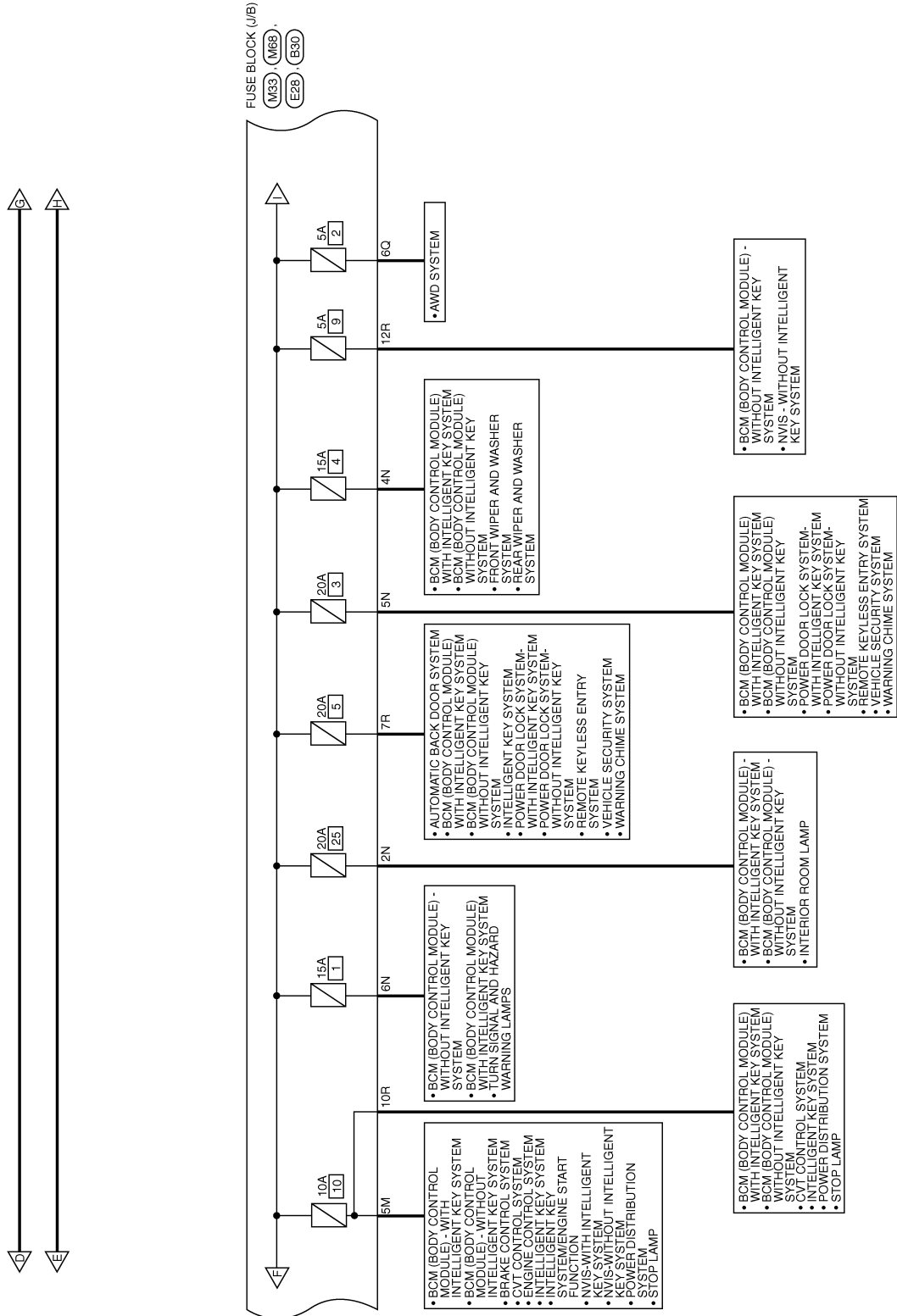
< WIRING DIAGRAM >



AAMWA1443GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

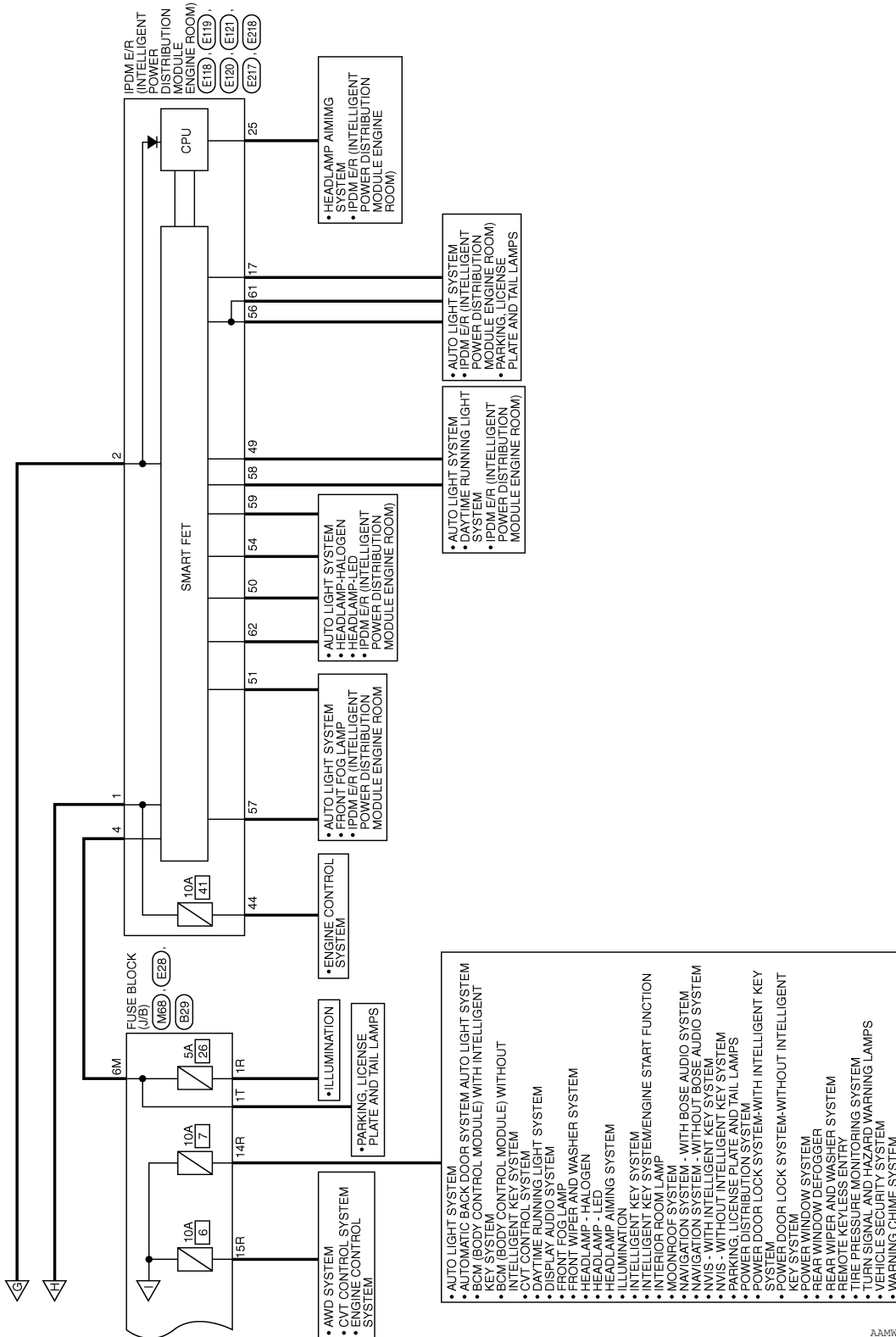


AAMWA1444GB

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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



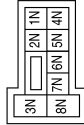
AAMWA1445GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY - CONNECTORS

Connector No.	M33
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
2N	LG	-
4N	LG	-
5N	R	-
6N	BG	-

Connector No.	M42
Connector Name	CIRCUIT BREAKER-2
Connector Color	WHITE



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

Connector No.	M44
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



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

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



Terminal No.	Color of Wire	Signal Name
1R	V	-
3R	V	-
7R	LAV	-
10R	GR	-
12R	BR	-
14R	W	-
15R	W	-

Connector No.	M75
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
2	W	-

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



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

AAMIA2847GB

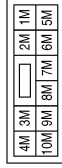
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P

PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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



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

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



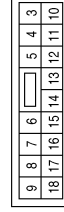
Terminal No.	Color of Wire	Signal Name
1	G	-
2	R	-

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



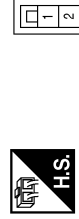
Terminal No.	Color of Wire	Signal Name
1S	G	-

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



Terminal No.	Color of Wire	Signal Name
4	Y	O LIGHT POSITION REAR LH
17	W	O LIGHT POSITION REAR RH

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



Terminal No.	Color of Wire	Signal Name
1	R	FL BAT 2
2	L	FL BAT 1

Connector No.	E36
Connector Name	WIRE TO WIRE
Connector Color	BLACK




Terminal No.	Color of Wire	Signal Name
2	W	-

AAMIA2848GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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



51	50	49
56	55	54
53	52	

Terminal No.	Color of Wire	Signal Name
49	R	O LIGHT DTRL LH
50	L	O LIGHT LBEAM LH
51	V	O LIGHT FR FOG LAMPS LH
54	LG	O LIGHT HBEAM RH
56	BG	O LIGHT CLEARANCE FR LH


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



45	44	43
48	47	46

Terminal No.	Color of Wire	Signal Name
44	R	O BAT ABS VALVE

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



30	29	28	27	26	25	24	23	22	21	20	19
42	41	40	39	38	37	36	35	34	33	32	31

Terminal No.	Color of Wire	Signal Name
25	G	O HEIGHT SENSOR SUPPLY

Connector No.	F30
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BLACK



5

Terminal No.	Color of Wire	Signal Name
5	W	-

Connector No.	F29
Connector Name	GENERATOR
Connector Color	-



1

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

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



59	58	57
64	63	62
61	60	

Terminal No.	Color of Wire	Signal Name
57	W	O LIGHT FR FOG LAMPS RH
58	R	O LIGHT DTRL RH
59	G	O LIGHT HBEAM LH
61	GR	O LIGHT CLEARANCE FR RH
62	SB	O LIGHT LBEAM RH

AAMIA2849GB

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.	F69
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	-



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

Connector No.	F39
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	-



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

Connector No.	F36
Connector Name	STARTER MOTOR
Connector Color	-



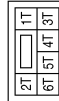
Terminal No.	B	Color of Wire	B/R	Signal Name	-
--------------	---	---------------	-----	-------------	---

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



Terminal No.	6Q	Color of Wire	LAVL	Signal Name	-
--------------	----	---------------	------	-------------	---

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



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

AAMIA2850GB

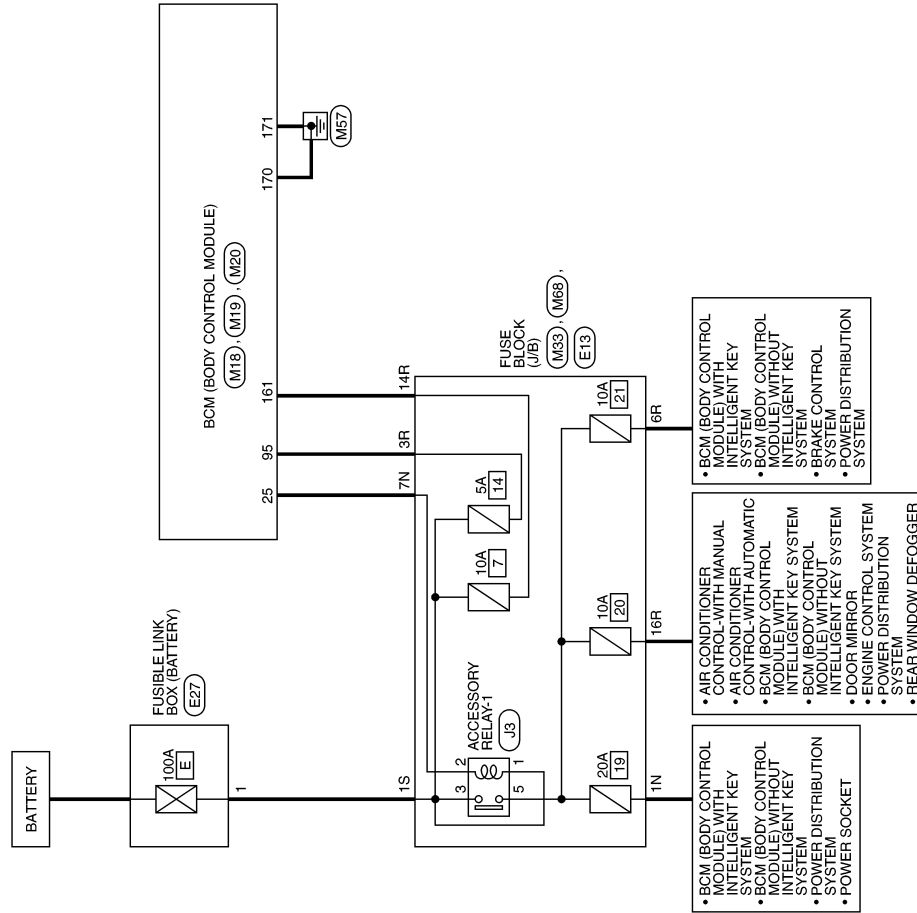
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram —Accessory Power Supply —

INFOID:000000011280948

ACCESSORY POWER SUPPLY



AAMWA1446GB

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

PG

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY CONNECTORS

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



20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
40	39	38	37	36	35	34	33	32	31	30	29	28	27	26	25	24	23	22	21

Terminal No.	Color of Wire	Signal Name
25	BR	O BAT TEMP1 RL

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



100	99	98	97	96	95	94	93	92	91	90	89	88	87	86	85	84	83	82	81
120	119	118	117	116	115	114	113	112	111	110	109	108	107	106	105	104	103	102	101

Terminal No.	Color of Wire	Signal Name
95	V	I SHORTING PIN

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BROWN



167	166	165	164	163	162	161		
176	175	174	173	172	171	170	169	168

Terminal No.	Color of Wire	Signal Name
161	W	I PWR ECU
170	B	GND 1
171	B	GND 2

Connector No.	M33
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



3N	2N	1N		
8N	7N	6N	5N	4N

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

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



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

Terminal No.	Color of Wire	Signal Name
3R	V	-
6R	LA/L	-
14R	W	-
16R	GR	-

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

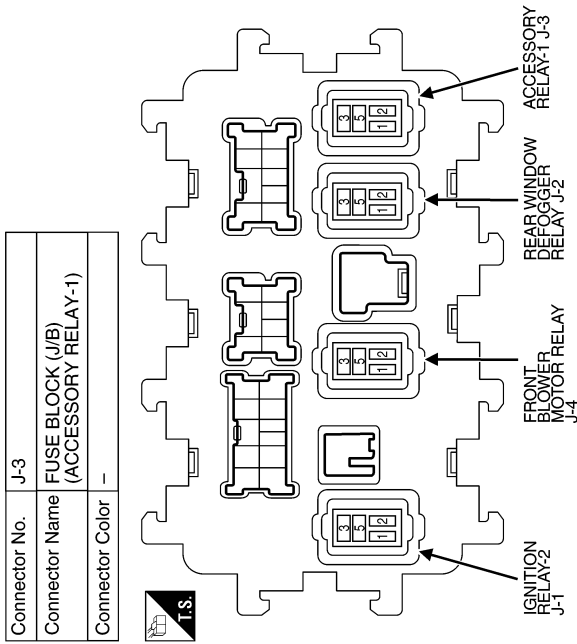


1S

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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



Connector No.	J-3
Connector Name	FUSE BLOCK (J/B) (ACCESSORY RELAY-1)
Connector Color	-

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



Terminal No.	Color of Wire	Signal Name
1	G	-

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

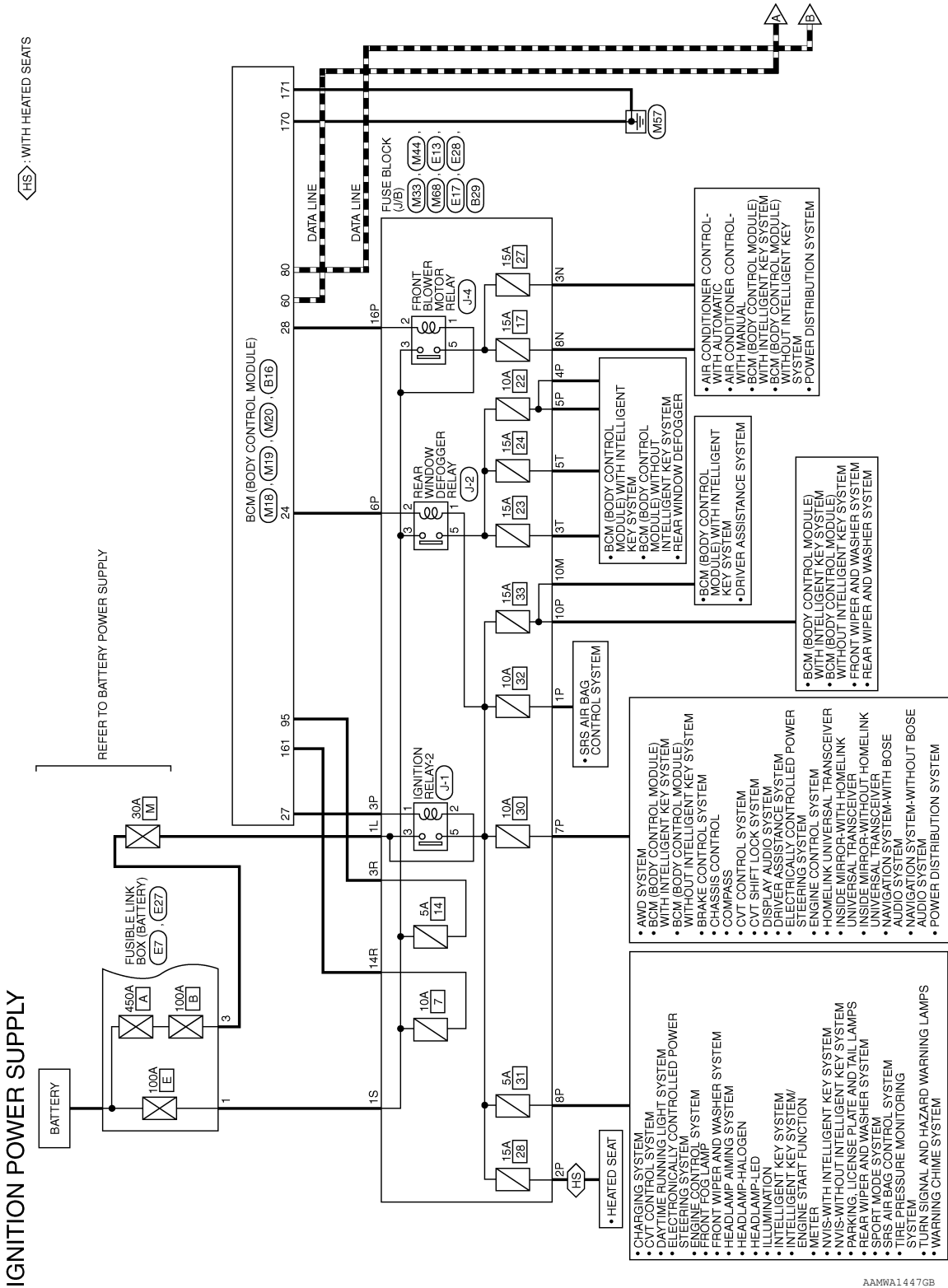
AAMIA2852GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram — Ignition Power Supply —

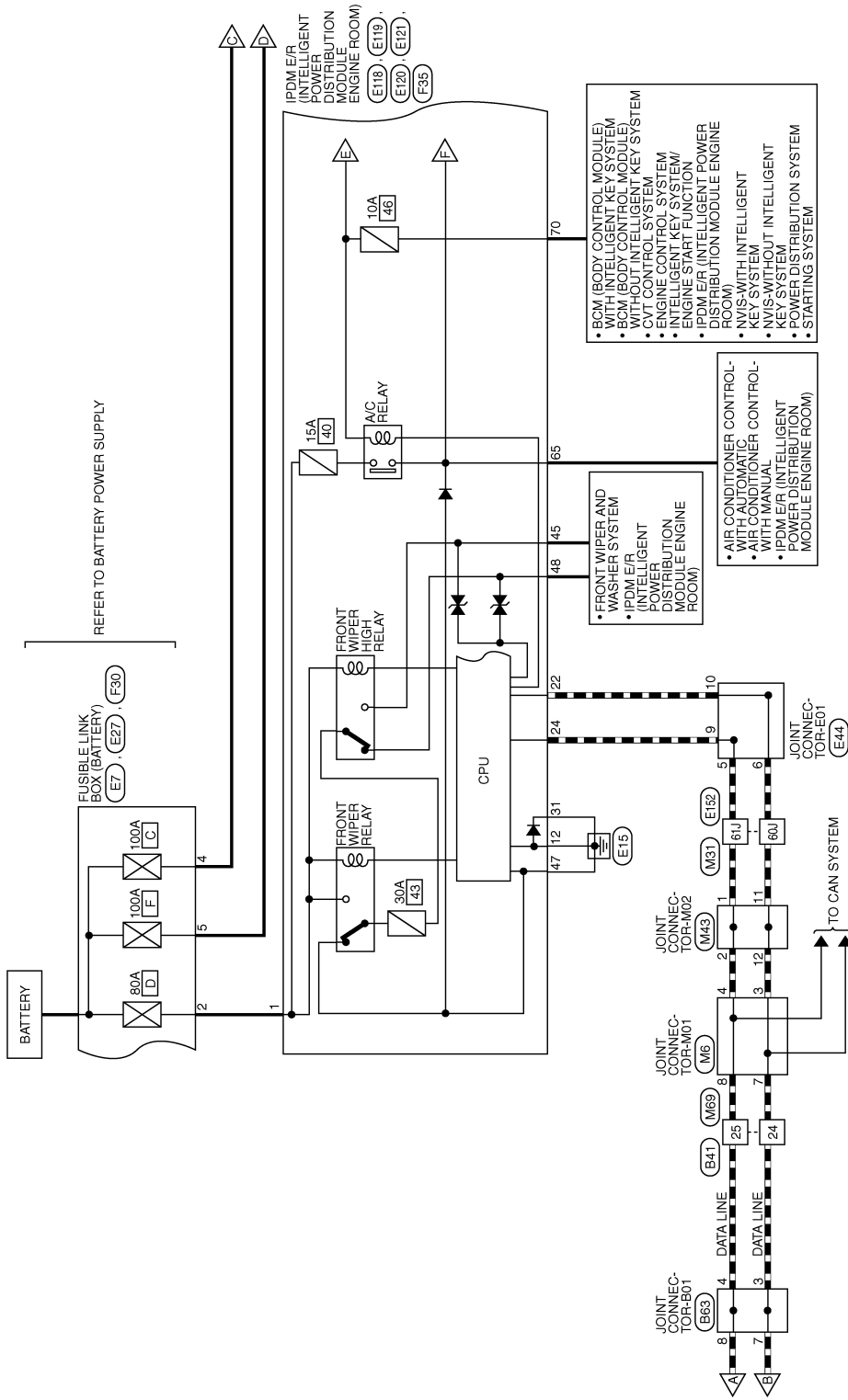
INFOID:000000011280949



AAMWA1447GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



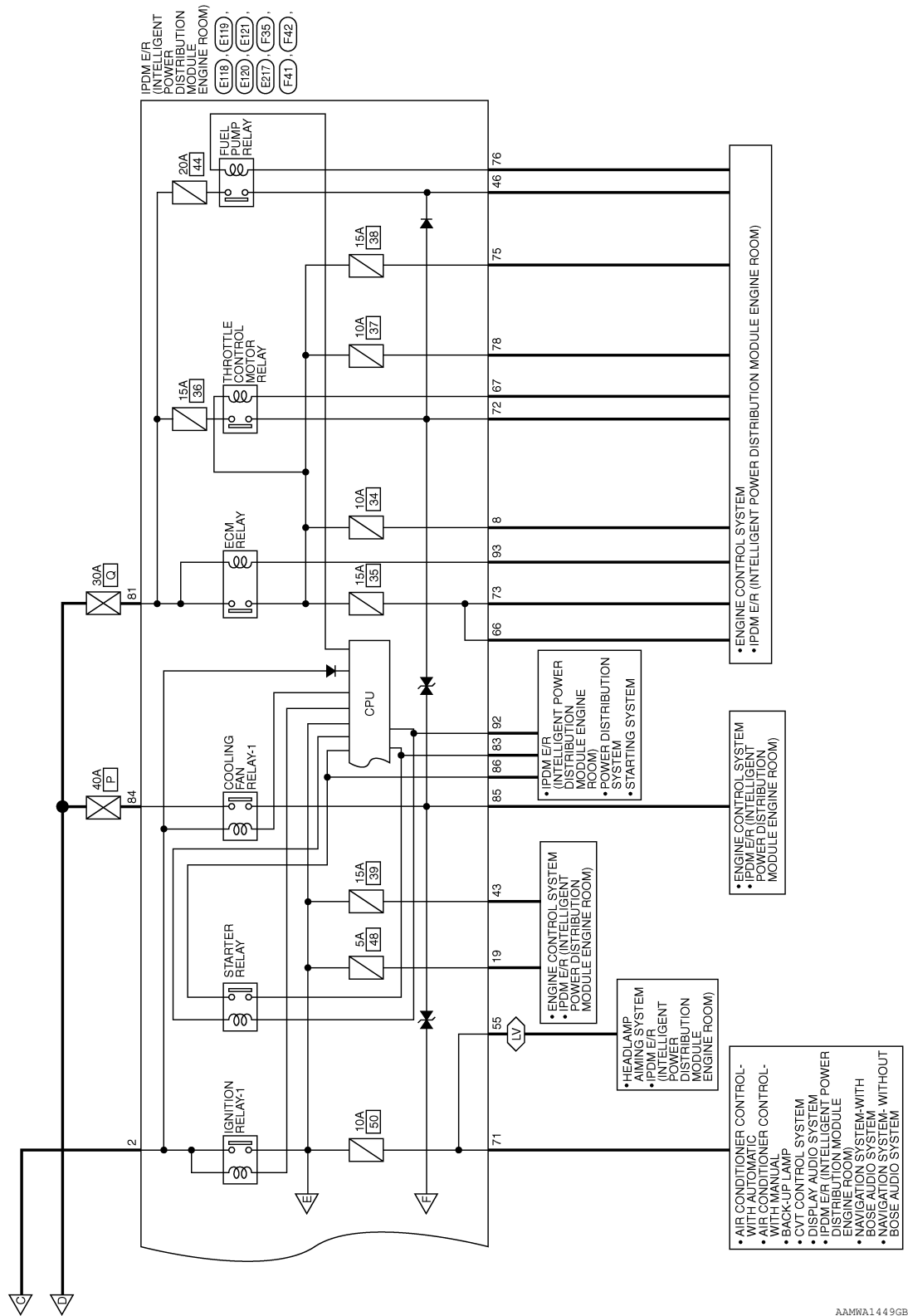
AAMWA1448GB

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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

LV WITH LED HEADLAMPS



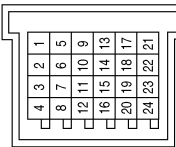
AAMWA1449GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

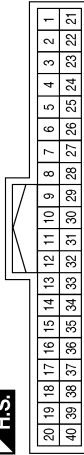
IGNITION POWER SUPPLY - CONNECTORS

Connector No.	M6
Connector Name	JOINT CONNECTOR-M01
Connector Color	GRAY



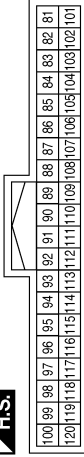
Terminal No.	Color of Wire	Signal Name
3	P	-
4	L	-
7	P	-
8	L	-

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



Terminal No.	Color of Wire	Signal Name
24	L/R	O DEFROSTER RL D
27	Y	O IGN1 RL
28	LAW	O IGN2 RL

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



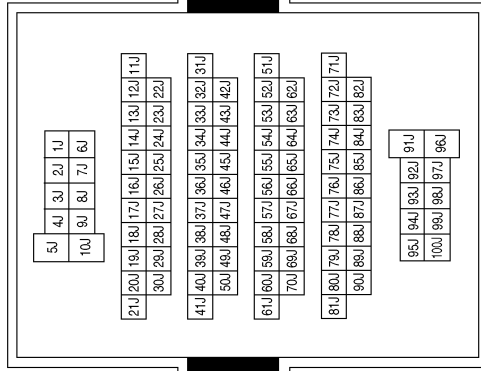
Terminal No.	Color of Wire	Signal Name
95	V	I SHORTING PIN

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
161	W	I PWR ECU
170	B	I GND 1
171	B	I GND 2

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



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

POWER SUPPLY ROUTING CIRCUIT

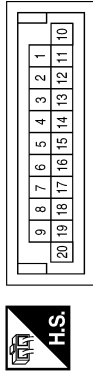
< WIRING DIAGRAM >

Connector No.	M44
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



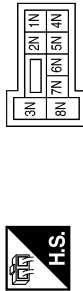
Terminal No.	Color of Wire	Signal Name
1P	R	-
2P	G	-
3P	Y	-
4P	LG	-
5P	GR	-
6P	LA/R	-
7P	Y	-
8P	LA/BR	-
10P	LG	-
16P	LA/W	-

Connector No.	M43
Connector Name	JOINT CONNECTOR-M02
Connector Color	BLUE



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

Connector No.	M33
Connector Name	FUSE BLOCK (J/B)
Connector Color	WHITE



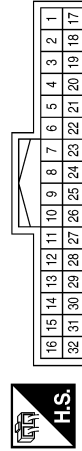
Terminal No.	Color of Wire	Signal Name
3N	Y	-
8N	SB	-

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



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

Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
24	P	-
25	L	-

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



Terminal No.	Color of Wire	Signal Name
3R	V	-
14R	W	-

AAMIA2343GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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



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

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



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

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



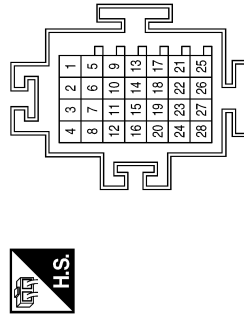
Terminal No.	Color of Wire	Signal Name
1S	G	-

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



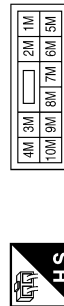
Terminal No.	Color of Wire	Signal Name
1	R	FL BAT 2
2	L	FL BAT 1

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



Terminal No.	Color of Wire	Signal Name
5	L	-
6	P	-
9	L	-
10	P	-

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



Terminal No.	Color of Wire	Signal Name
10M	L	-

AAMIA2344GB

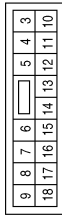
A
B
C
D
E
F
G
H
I
J
K
L
N
O
P

PG

POWER SUPPLY ROUTING CIRCUIT

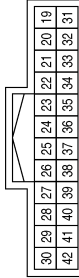
< WIRING DIAGRAM >

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



Terminal No.	Color of Wire	Signal Name
8	BG	O ACTUATOR 4 CABIN
12	B	SIGNAL GROUND

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



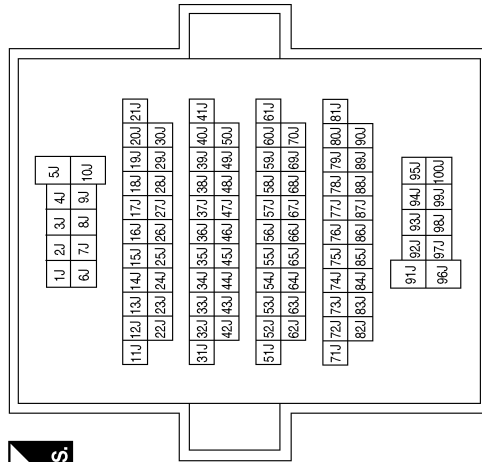
Terminal No.	Color of Wire	Signal Name
19	LG	O IGN ECM
22	P	CAN-L
24	L	CAN-H
31	B	2ND SIGNAL GROUND

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



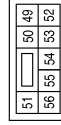
Terminal No.	Color of Wire	Signal Name
43	LG	O IGN LCS CABIN
45	V	O FR WIPER HI
46	W	O FUEL PUMP
47	B	POWER GROUND
48	Y	O FR WIPER LO

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



Terminal No.	Color of Wire	Signal Name
60J	P	-
61J	L	-

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



Terminal No.	Color of Wire	Signal Name
55	SB	O IGN REVERSE SW AC VALVE 1

POWER SUPPLY ROUTING CIRCUIT

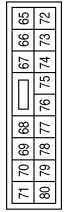
< WIRING DIAGRAM >

Connector No.	F41
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	GRAY



Terminal No.	Color of Wire	Signal Name
81	L	FL ECM USM SUPPLY
83	G	O STARTER
84	LG	I BATT MOTOR FAN LO
85	P	O MOTOR FAN LO
86	GR	FL STARTER

Connector No.	F35
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



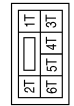
Terminal No.	Color of Wire	Signal Name
65	P	O AC CLUTCH
66	R	O ACTUATOR1 1 (3FB1)
67	V	LI ECM ACT5 DRIVER
70	BG	O IGN AT LPG
71	SB	O IGN REVERSE SW AC VALVE
72	GR	O ACTUATOR5 (3FBA)
73	Y	O ACTUATOR1 2 (3FB)
75	BR	O ACTUATOR3 (3FB3)
76	P	LI FUEL PUMP DRIVER
78	L	O ACTUATOR2 (3FB2)

Connector No.	F30
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BLACK



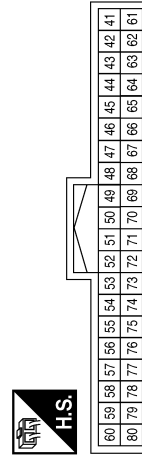
Terminal No.	Color of Wire	Signal Name
5	W	-

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



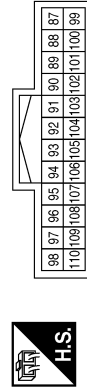
Terminal No.	Color of Wire	Signal Name
3T	G	-
5T	G	-

Connector No.	B16
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	GREEN



Terminal No.	Color of Wire	Signal Name
60	L	CAN-H
80	P	CAN-L

Connector No.	F42
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
92	GR	LI NP SW
93	P	LI ECM DRIVER

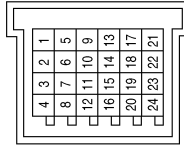
AAMIA2855GB

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

POWER SUPPLY ROUTING CIRCUIT

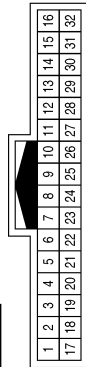
< WIRING DIAGRAM >

Connector No.	B63
Connector Name	JOINT CONNECTOR-B01
Connector Color	GRAY



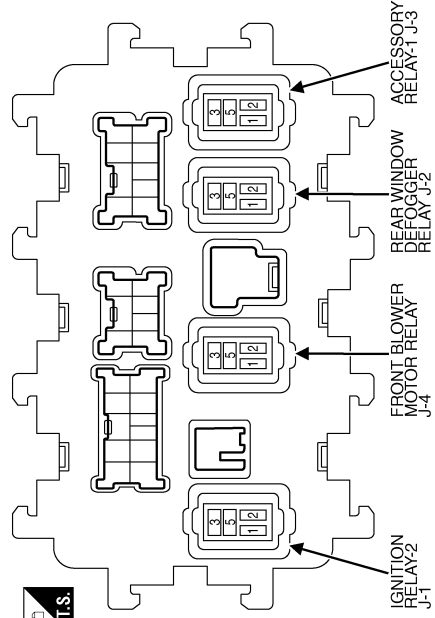
Terminal No.	Color of Wire	Signal Name
3	P	-
4	L	-
7	P	-
8	L	-

Connector No.	B41
Connector Name	WIRE TO WIRE
Connector Color	WHITE

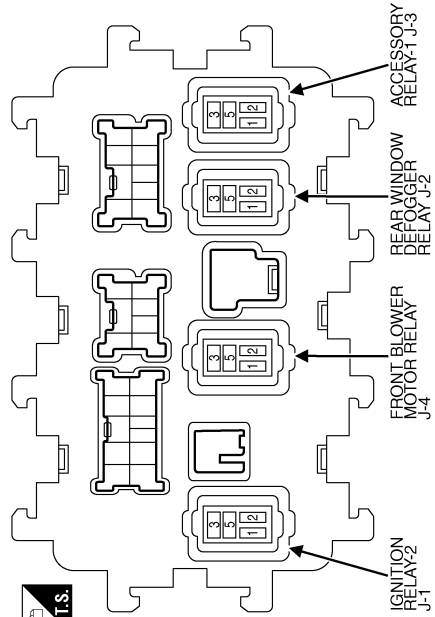


Terminal No.	Color of Wire	Signal Name
24	P	-
25	L	-

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



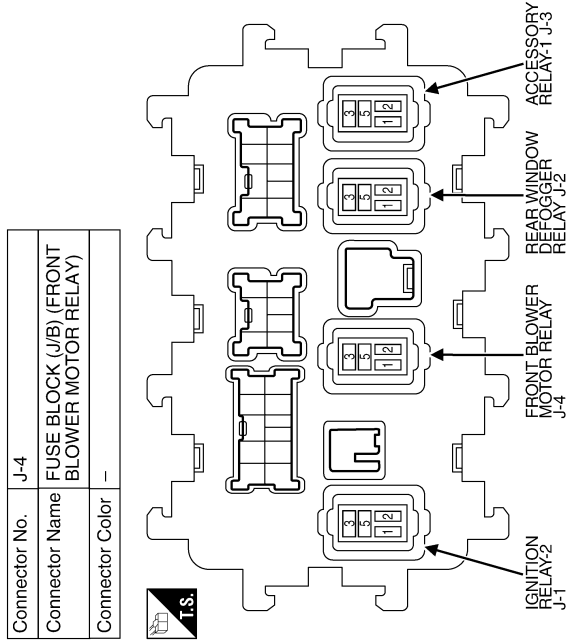
Connector No.	J-1
Connector Name	FUSE BLOCK (J/B) (IGNITION RELAY-2)
Connector Color	-



AAMIA2856GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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

AAMIA2348GB

GROUND

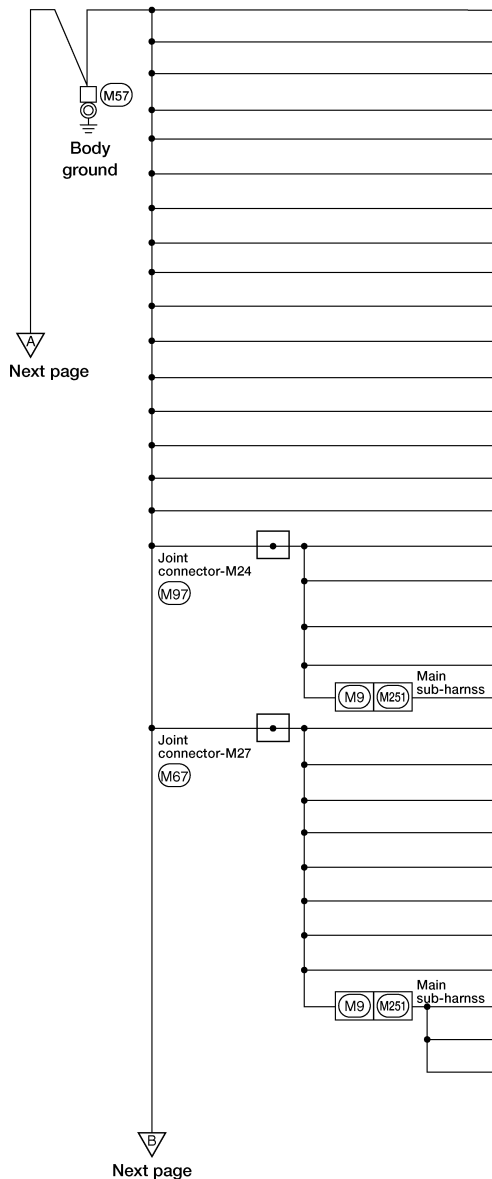
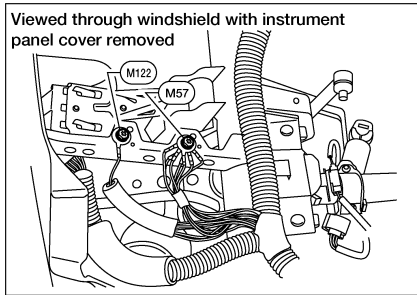
< WIRING DIAGRAM >

GROUND

Ground Distribution

INFOID:000000011280950

MAIN HARNESS



CONNECTOR NUMBER	CONNECT TO
(M4)	NATS antenna amp. (without Intelligent Key system)
(M5)	Dongle unit
(M20)	BCM (body control module) (Terminal No. 170)
(M20)	BCM (body control module) (Terminal No. 171)
(M22)	Data link connector
(M28)	Combination switch
(M50)	Front air control (Terminal No. 19)
(M51)	A/C switch
(M56)	Steering angle sensor
(M62)	Front power socket
(M63)	Console power socket
(M83)	Audio unit (Terminal No. 20)
(M101)	AV control unit (Terminal No. 20) (without BOSE audio system)
(M108)	AV control unit (Terminal No. 20) (with BOSE audio system)
(M196)	Front heated seat switch RH (Terminal No. 3)
(M197)	Front heated seat switch LH (Terminal No. 3)
(M87)	Audio unit (Terminal No. 52)
(M103)	Around view monitor control unit (Terminal No. 1) (without driver assistance system)
(M113)	Around view monitor control unit (Terminal No. 1) (with driver assistance system)
(M120)	Warning system buzzer
(M253)	Warning system switch
(M24)	Automatic back door switch (Terminal No. 2)
(M24)	Automatic back door switch (Terminal No. 4)
(M79)	VDC OFF switch (Terminal No. 4)
(M79)	VDC OFF switch (Terminal No. 8)
(M178)	Automatic back door main switch (Terminal No. 2)
(M178)	Automatic back door main switch (Terminal No. 3)
(M196)	Front heated seat switch RH (Terminal No. 2)
(M197)	Front heated seat switch LH (Terminal No. 2)
(M252)	AWD lock switch
(M254)	Hill descent switch (Terminal No. 4)
(M254)	Hill descent switch (Terminal No. 6)

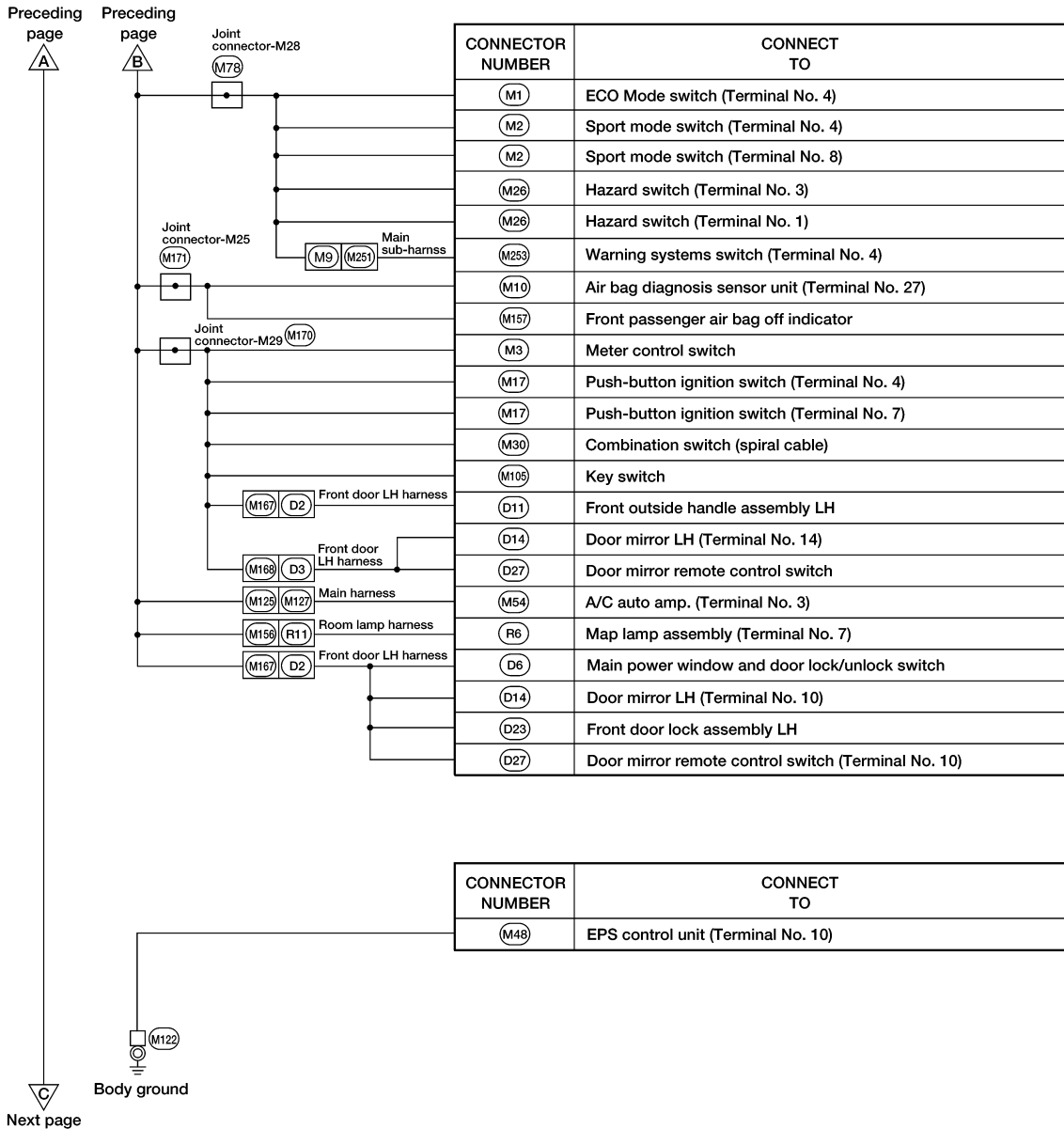
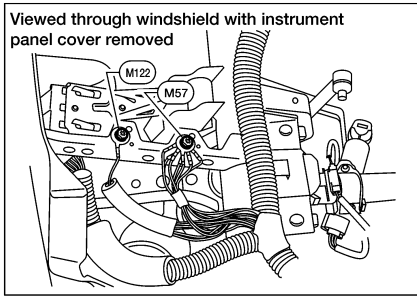
Next page

Next page

AAMIA2818GB

GROUND

< WIRING DIAGRAM >



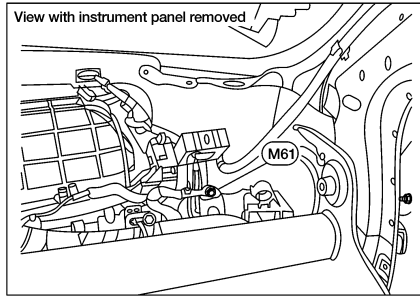
A
B
C
D
E
F
G
H
I
J
K
L
N
O
P

PG

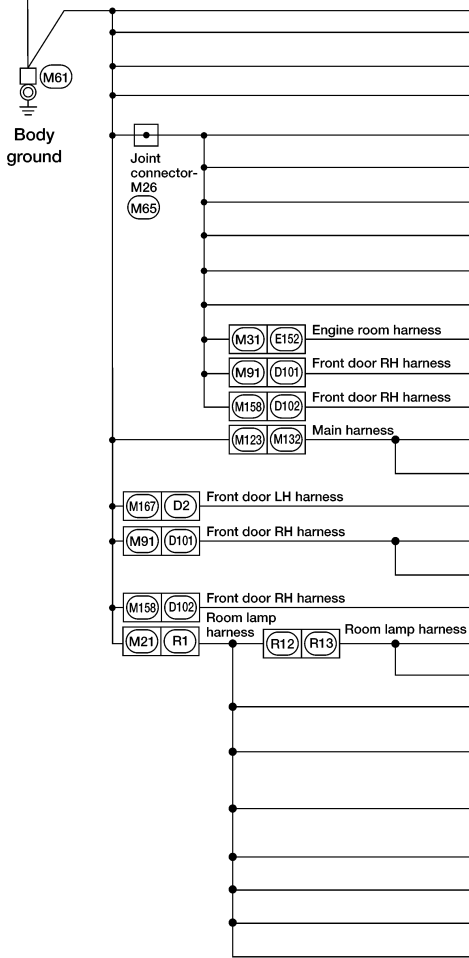
AAMIA2819GB

GROUND

< WIRING DIAGRAM >



Preceding page



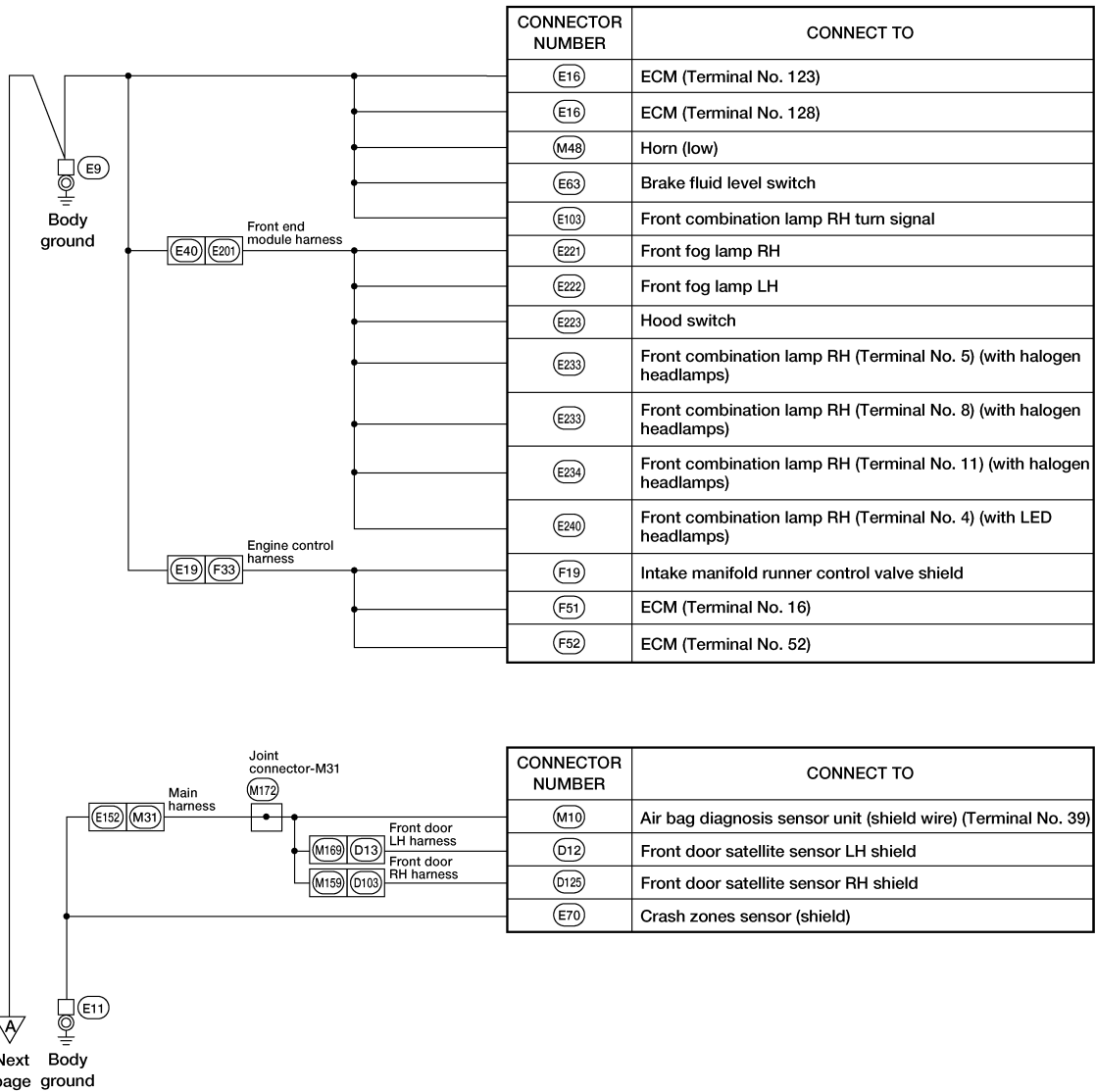
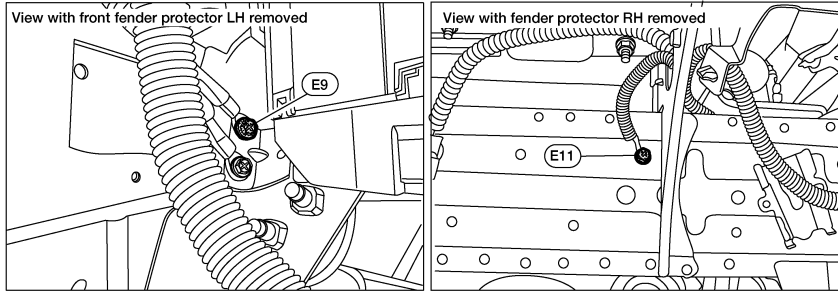
CONNECTOR NUMBER	CONNECT TO
M22	Data link connector (Terminal No. 4)
M22	Data link connector (Terminal No. 5)
M76	Combination meter (Terminal No. 1)
M77	Combination meter (Terminal No. 52)
M32	Ignition switch
M96	Chassis control module (Terminal No. 12)
M107	CVT shift selector (Terminal No. 2)
M107	CVT shift selector (Terminal No. 4)
M107	CVT shift selector (Terminal 10)
M188	CVT shift selector
E21	Distance sensor
D126	Front outside handle assembly RH
D107	Door mirror RH (Terminal No. 14)
M133	Variable blower control (with auto A/C)
M146	Variable blower control (with manual A/C)
D5	Blind spot warning/blind spot intervention indicator LH
D108	Blind spot warning/blind spot intervention indicator RH
D112	Power window and door lock/unlock switch RH
D107	Door mirror RH (Terminal No. 10)
R4	Moonroof motor assembly
R5	Sunshade motor assembly
R6	Map lamp assembly (Terminal No. 6)
R7	Auto anti-dazzling inside mirror (with Homelink universal transceiver)
R9	Auto anti-dazzling inside mirror (without Homelink universal transceiver)
R11	Vanity mirror lamp RH
R14	Vanity mirror lamp LH
R15	Room lamp
R16	Personal lamps 2nd row

AAMIA2820GB

GROUND

< WIRING DIAGRAM >

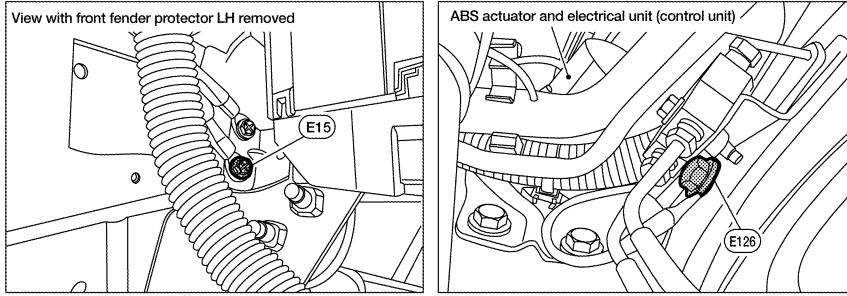
ENGINE ROOM HARNESS



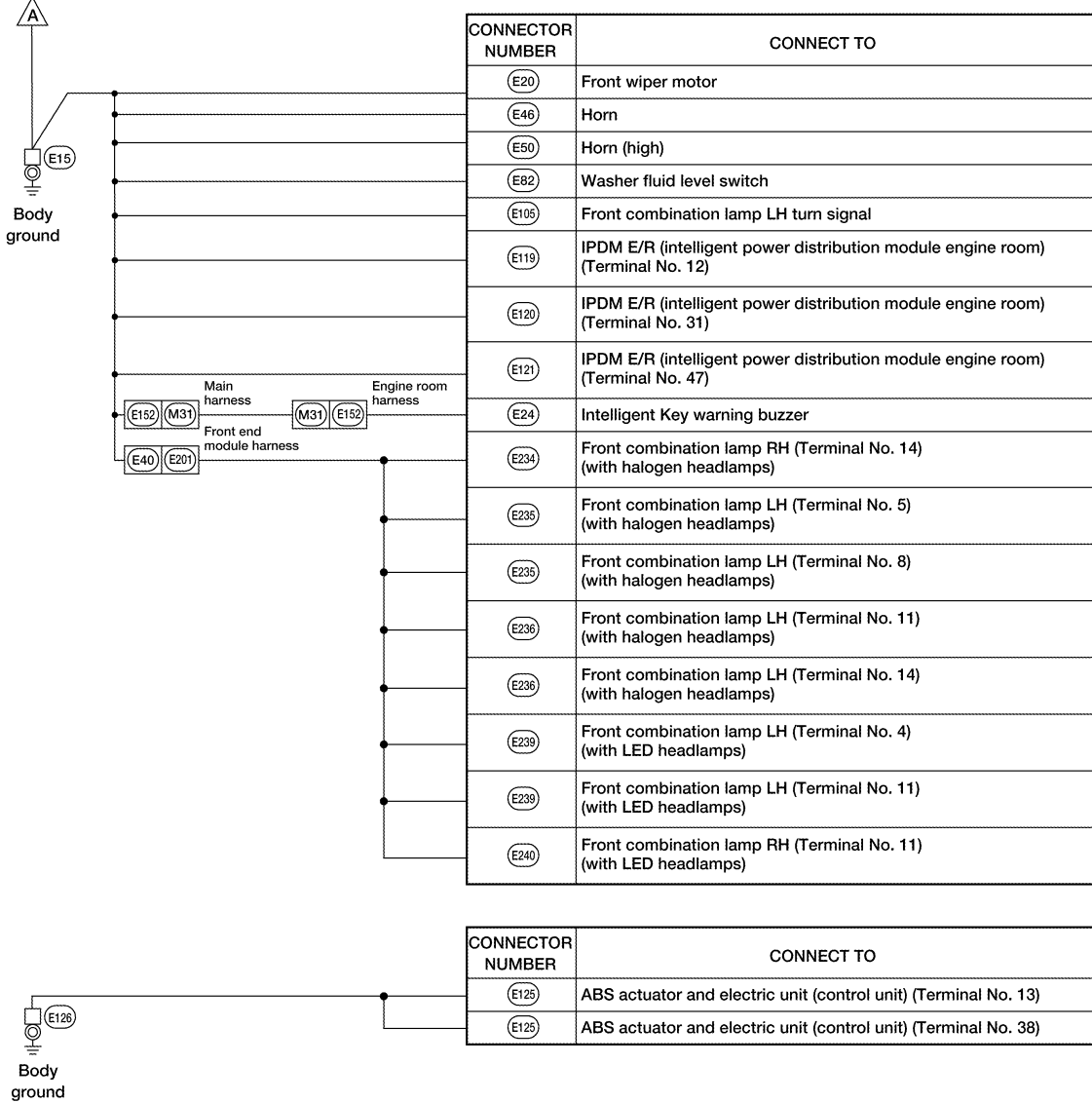
A
B
C
D
E
F
G
H
I
J
K
L
PG
N
O
P

GROUND

< WIRING DIAGRAM >



Preceding page

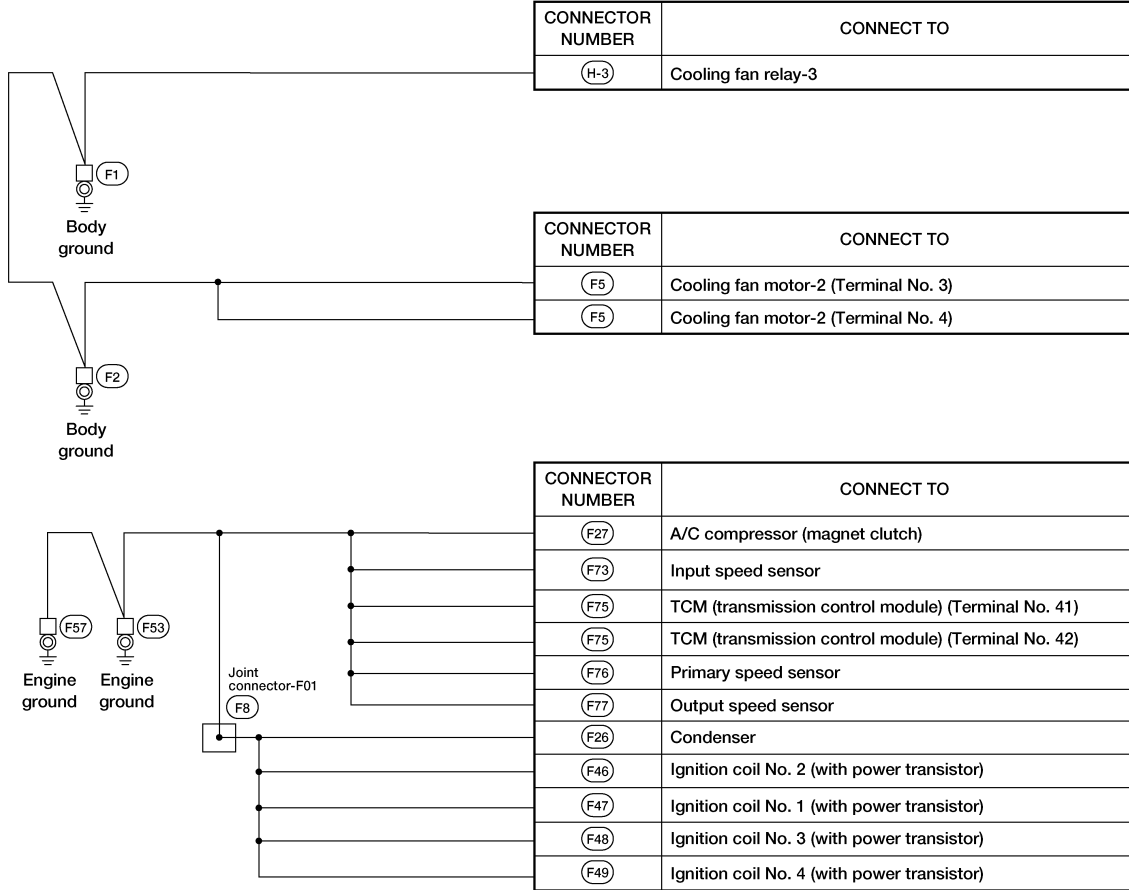
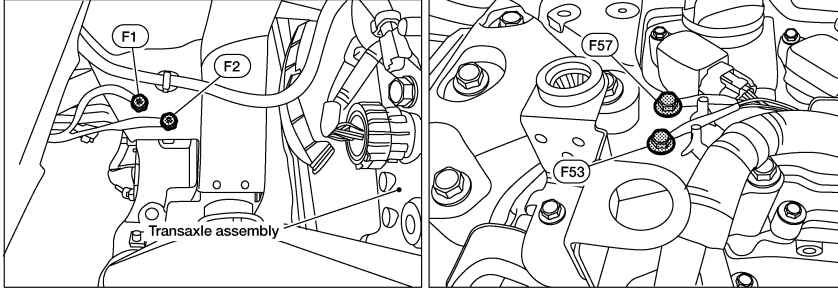


AAMIA2822GB

GROUND

< WIRING DIAGRAM >

ENGINE CONTROL HARNESS



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

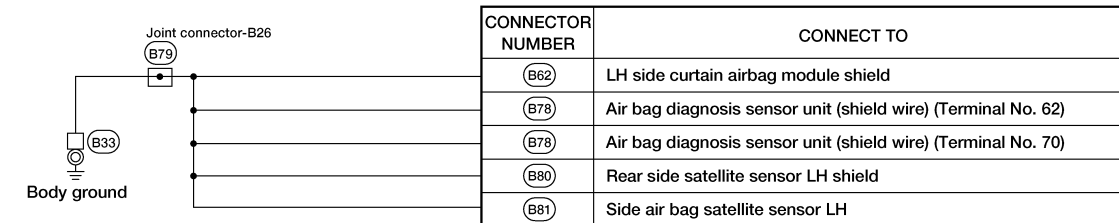
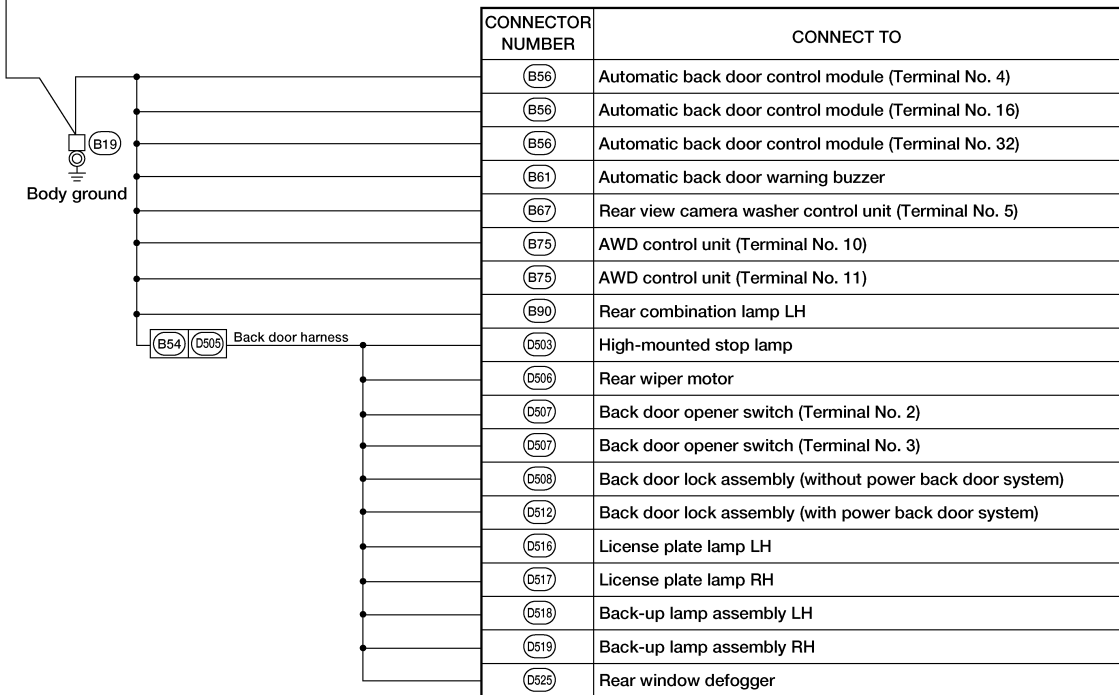
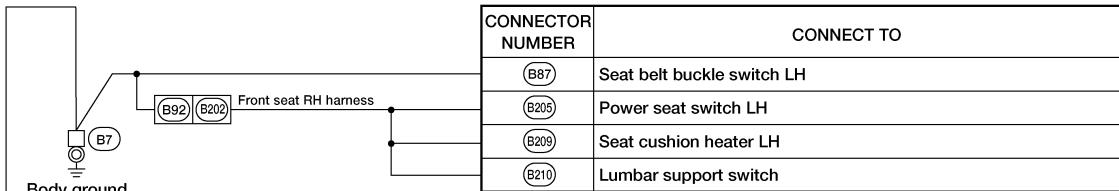
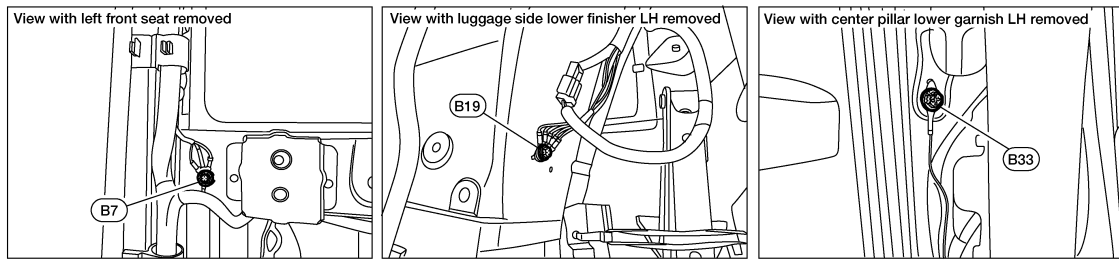
PG

AAMIA2823GB

GROUND

< WIRING DIAGRAM >

BODY HARNESS

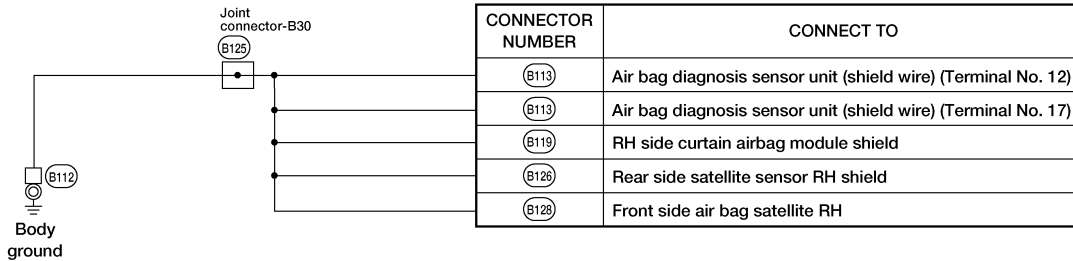
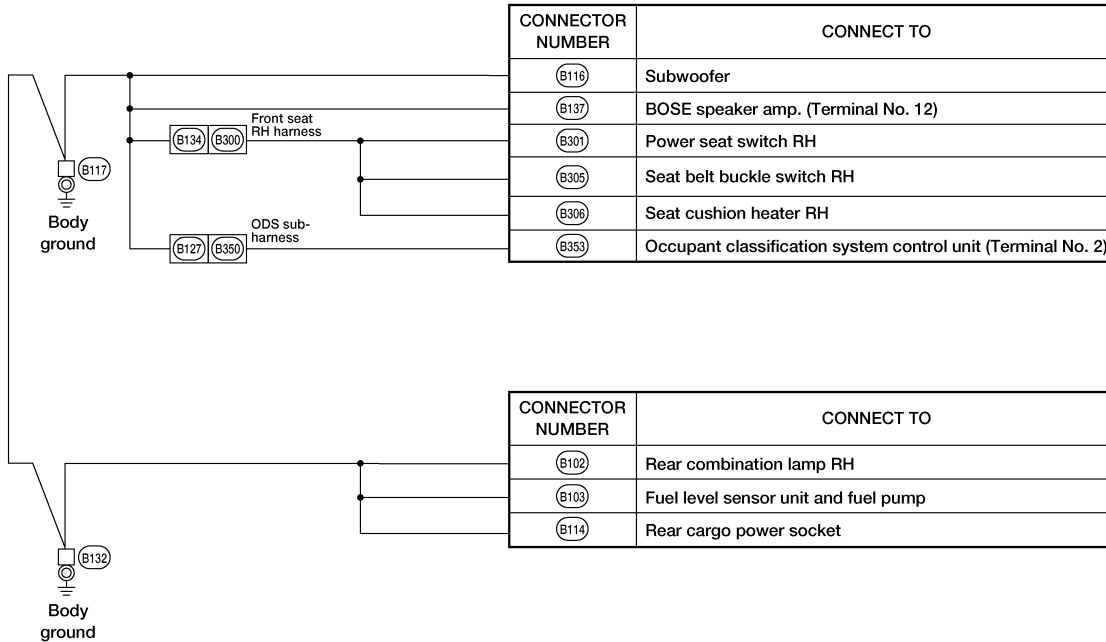
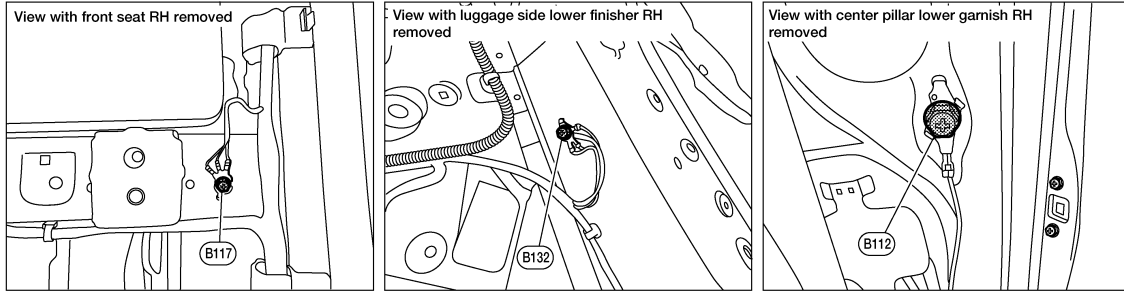


AAMIA2824GB

GROUND

< WIRING DIAGRAM >

BODY NO. 2 HARNESS



AAMIA2825GB

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

HARNESS

< WIRING DIAGRAM >

HARNESS

Harness Layout

INFOID:000000011280951

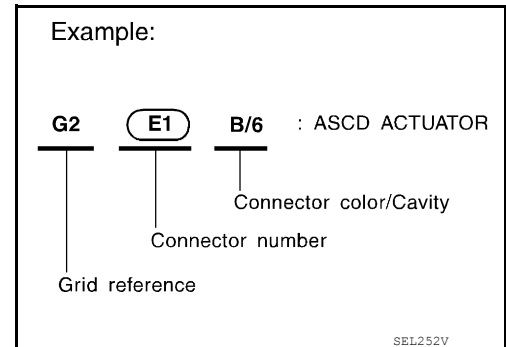
HOW TO READ HARNESS LAYOUT

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

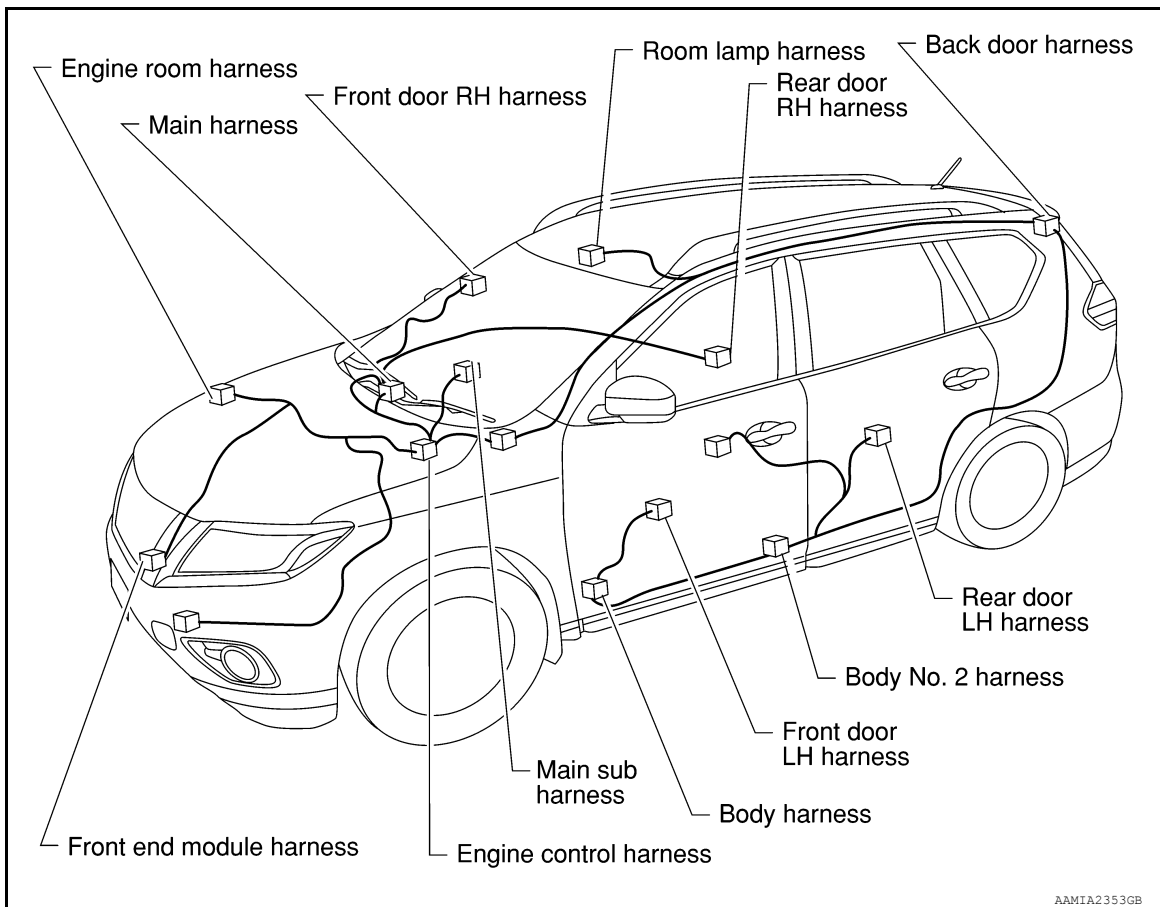
- Main Harness and Main Sub Harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Front End Module Harness
- Engine Control Harness
- Body Harness
- Body No. 2 Harness
- Room Lamp Harness

To use the grid reference

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



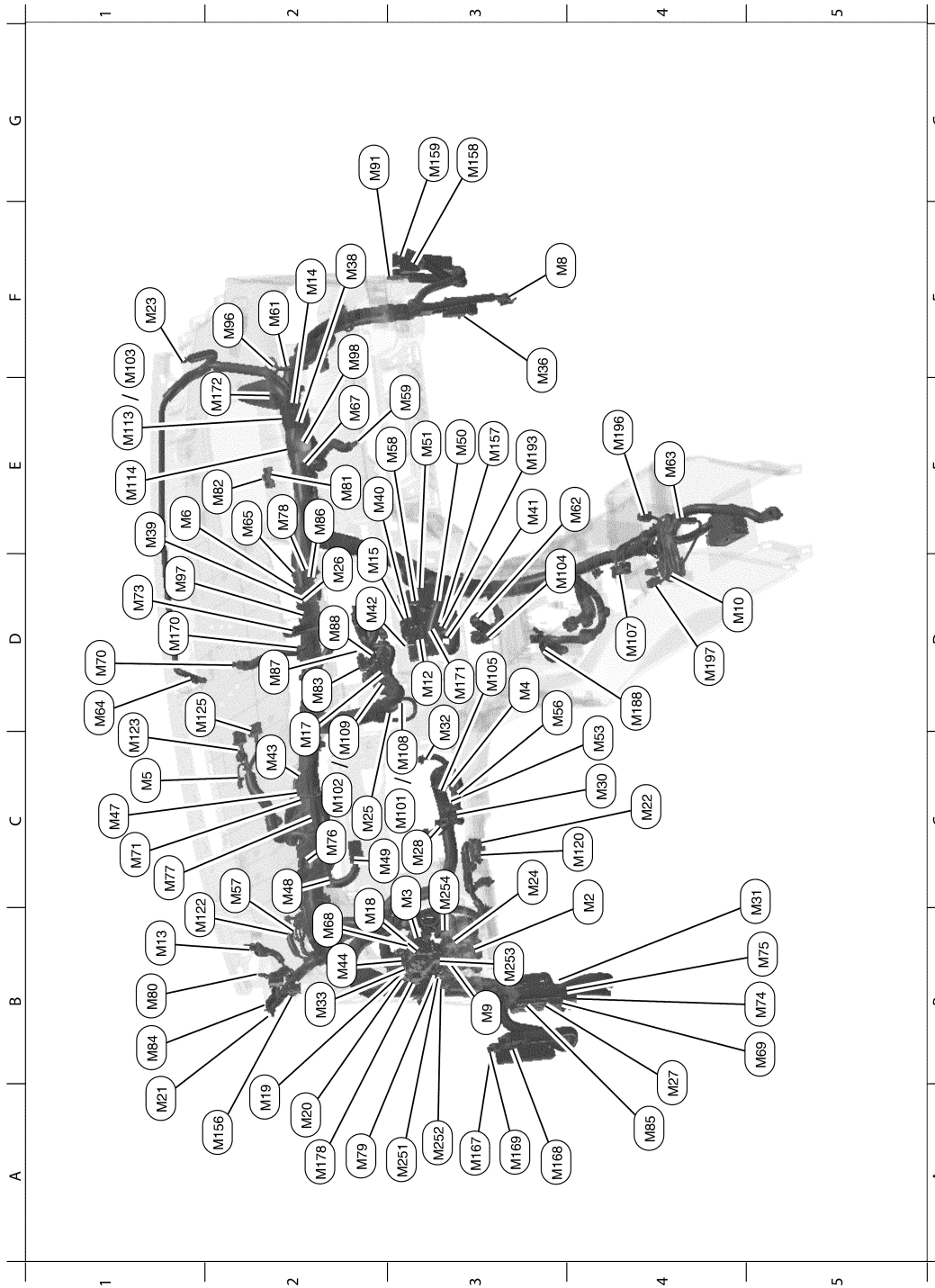
OUTLINE



HARNESS

< WIRING DIAGRAM >

MAIN HARNESS



AAMIA04192Z

C4	M2	L/8	: Sport mode switch	D1	M73	W/8	: Joint connector-M23
C3	M3	W/8	: Meter control switch	B5	M74	W/16	: To B42
D3	M4	W/4	: NATS antenna amp. (With Intelligent Key system)	B5	M75	B/2	: TO E36
C1	M5	W/4	: Dongle unit	C2	M76	W/40	: Combination meter
E1	M6	GR/24	: Joint connector-M01	C1	M77	W/12	: Combination meter

HARNESS

< WIRING DIAGRAM >

F3	M8	W/6	: To B106	E2	M78	W/8	: Joint connector-M28
B3	M9	W/16	: To M251	A2	M79	B/8	: VDC off switch
D4	M10	Y/28	: Air bag diagnosis sensor unit	B1	M80	W/2	: Front tweeter LH
D3	M12	L/4	: Room lamp relay	E2	M81	O/2	: Front passenger air bag module
B1	M13	W/3	: Optical sensor	E2	M82	B/2	: Front passenger air bag module
F2	M14	W/4	: Joint connector-M30	D2	M83	W/20	: Audio unit
D2	M15	W/2	: Inside key antenna (Instrumen center)	B1	M84	W/4	: Joint connector-M32
C2	M17	W/8	: Push-button ignition switch	A4	M85	W/8	: Joint connector-M33
B2	M18	GR/40	: BCM (Body control module)	E2	M86	W/8	: Joint connector-M34
A2	M19	B/40	: BCM (Body control module)	D2	M87	W/32	: Audio unit
A2	M20	BR/16	: BCM (Body control module)	D2	M88	W/8	: Audio unit
A1	M21	W/8	: To R1	G2	M91	W/24	: To D101
C4	M22	W/16	: Data link connector	F2	M96	W/24	: Chassis control module
F1	M23	W/2	: Front tweeter RH	D1	M97	W/8	: Joint connector-M24
C3	M24	G/8	: Automatic back door switch	F2	M98	W/8	: Joint connector-M22
C2	M25	W/3	: NATS antenna amp. (With Intelligent Key system)	C3	M101	W/20	: AV control unit (Without BOSE audio system)
D2	M26	W/4	: Hazard switch	D2	M102	W/24	: AV control unit (Without BOSE audio system)
A4	M27	W/8	: Joint connector-M13	F1	M103	W/40	: Around view monitor control unit (Without driver assistance system)
C3	M28	W/16	: Combination switch	D3	M104	W/4	: Aux in jack
C4	M30	W/12	: Combination switch (Spiral cable)	D3	M105	W/2	: Key switch
C5	M31	SMJ	: To E152	D4	M107	W/16	: CVT shift selector
D3	M32	W/4	: Ignition switch	C2	M108	W/20	: AV control unit (With BOSE audio system)
B2	M33	W/8	: Fuse block (J/B)	C2	M109	W/24	: AV control unit (With BOSE audio system)
F3	M36	SMJ	: To B136	E1	M113	W/40	: Around view monitor control unit (With driver assistance system)
F2	M38	W/6	: Joint connector-M05	E1	M114	W/32	: Around view monitor control unit (With driver assistance system)
E1	M39	W/6	: Joint connector-M06	C3	M120	BR/4	: Waring system buzzer
E2	M40	W/2	: Circuit breaker-1	B1	M122	—	: Body ground
E3	M41	W/2	: In-vehicle sensor	C1	M123	W/6	: To M132
D2	M42	W/2	: Circuit breaker-2	D1	M125	W/32	: To M127
C2	M43	L/20	: Joint connector-M02	A2	M156	W/24	: To R11
B2	M44	W/16	: Fuse block (J/B)	E3	M157	B/4	: Front passenger air bag off indicator
C1	M47	B/20	: Joint connector-M04	G3	M158	W/16	: To D102
C2	M48	B/2	: EPS control unit	G3	M159	Y/4	: To D103
C2	M49	W/8	: EPS control unit	A3	M167	W/16	: To D2
E3	M50	W/32	: Front air control	A3	M168	W/24	: To D3
E3	M51	B/10	: A/C switch	A3	M169	Y/4	: To D13
C4	M53	GR/4	: Combination switch (Spiral cable)	D1	M170	W/8	: Joint connector-M29
D3	M56	GR/8	: Steering angle sensor	D3	M171	W/4	: Joint connector-M25
C2	M57	—	: Body ground	E2	M172	W/4	: Joint connector-M31
E3	M58	L/4	: Power window relay	A2	M178	B/8	: Automatic back door main switch
F2	M61	—	: Body ground	D4	M188	BR/2	: CVT shift selector
E4	M62	B/3	: Front power socket	E3	M193	W/8	: Joint connector-M18

HARNESSES

< WIRING DIAGRAM >

E4	M63	B/3	: Console power socket	E4	M196	BR/6	: Front heated seat switch RH
D1	M64	B/2	: Sunload sensor	D4	M197	W/6	: Front heated seat switch LH
E2	M65	W/8	: Joint connector-M26	Main sub harness			
E2	M67	W/8	: Joint connector-M27	A3	M251	W/16	: To M9
B2	M68	BR/16	: Fuse block (J/B)	A3	M252	W/10	: AWD lock switch
B5	M69	W/32	: To B41	B3	M253	W/8	: Warning system switch
D1	M70	BR/2	: Center speaker	C3	M254	GR/10	: Hill descent control switch
C1	M71	L/20	: Joint connector-M03				

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

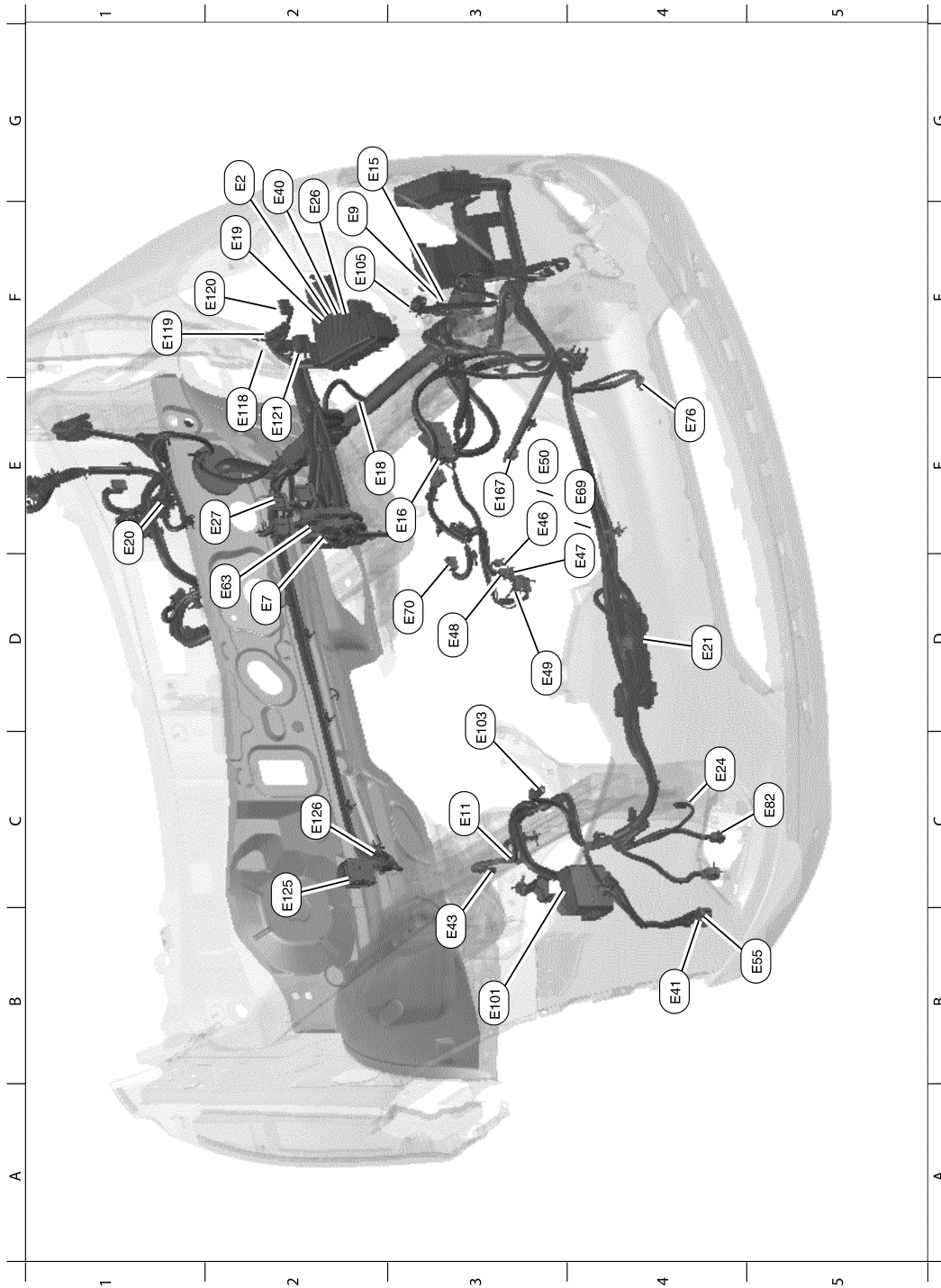
PG

N
O
P

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS



AAMIA04182Z

G2	E2	W/2	: To F32	D3	E49	B/1	: Horn (Low)
D2	E7	GR/2	: Fusible link box (Battery)	E3	E50	B/1	: Horn (High)
F2	E9	—	: Body ground	B5	E55	B/2	: Rear view camera washer motor
C3	E11	—	: Body ground	D2	E63	B/2	: Brake fluid level switch
G2	E15	—	: Body ground	E4	E69	BR/1	: Horn (High)

HARNES

< WIRING DIAGRAM >

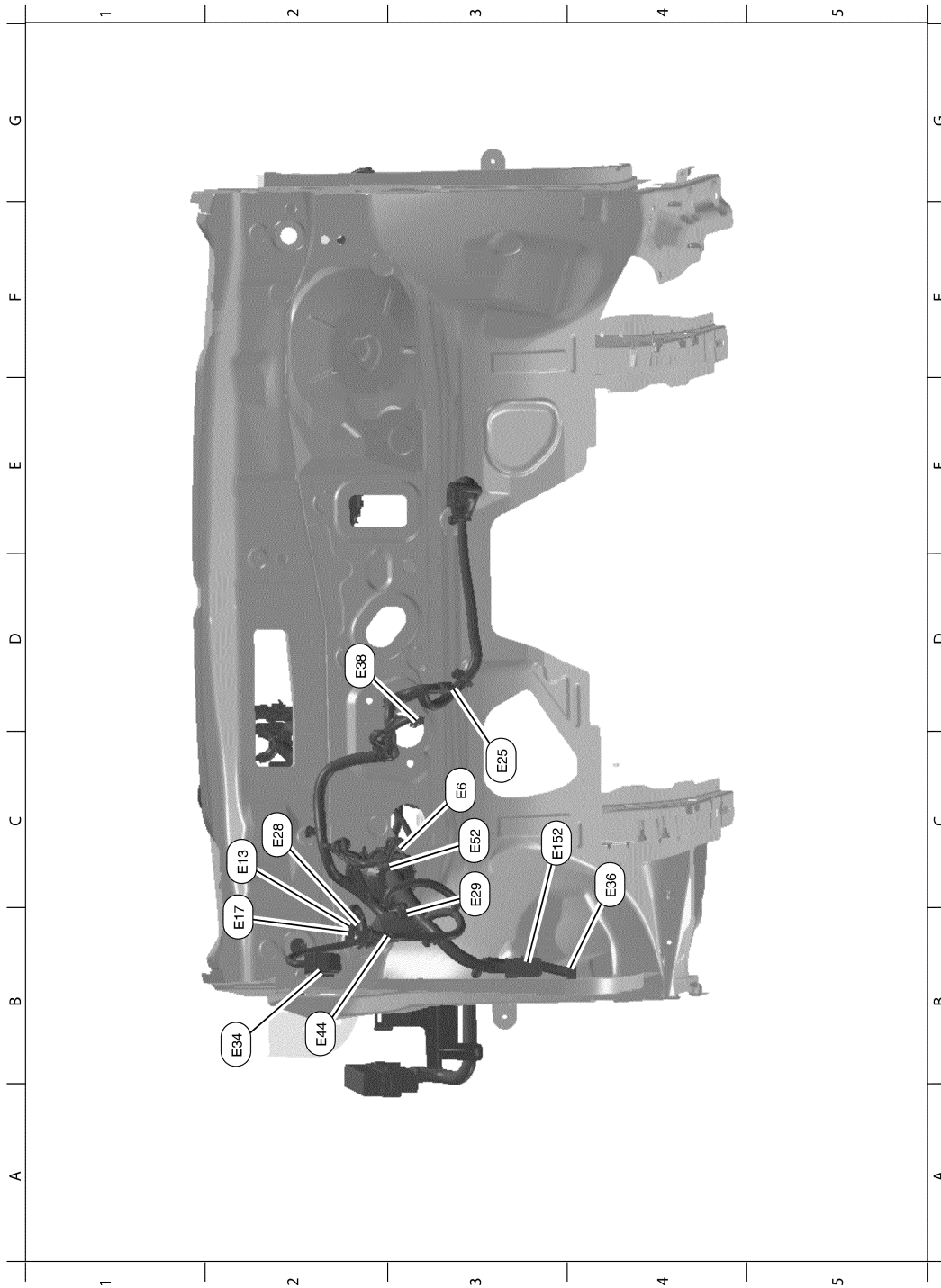
E3	E16	B/32	: ECM	D3	E70	Y/2	: Crash zone sensor	A
E2	E18	GR/2	: Front wheel sensor LH	E4	E76	B/2	: Ambient sensor	B
F2	E19	BR/16	: To F33	C5	E82	W/2	: Washer fluid level switch	C
E1	E20	GR/5	: Front wiper motor	B3	E101	W/3	: Anti-theft horn relay	D
D4	E21	B/8	: Distance sensor	D3	E103	GR/3	: Front combination lamp RH	E
C4	E24	BR/3	: Intelligent Key warning buzzer	F2	E105	GR/3	: Front combination lamp LH	F
G2	E26	W/24	: To E209	E2	E118	B/2	: IPDM E/R (Intelligent power distribution module engine room)	G
E2	E27	BR/2	: Fusible link box (Battery)	F1	E119	GR/16	: IPDM E/R (Intelligent power distribution module engine room)	H
G2	E40	W/4	: To E40	F2	E120	GR/24	: IPDM E/R (Intelligent power distribution module engine room)	I
B4	E41	B/2	: Front and rear washer motor	E2	E121	R/6	: IPDM E/R (Intelligent power distribution module engine room)	J
B3	E43	GR/2	: Front wheel sensor RH	C2	E125	B/38	: ABS actuator and electric unit (Control unit)	K
E3	E46	B/1	: Horn	C2	E126	—	: Body ground	L
E4	E47	B/1	: Horn	E3	E167	B/3	: Vacuum sensor	M
D3	E48	B/1	: Horn (Low)					N

PG

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



AAMIA04172Z

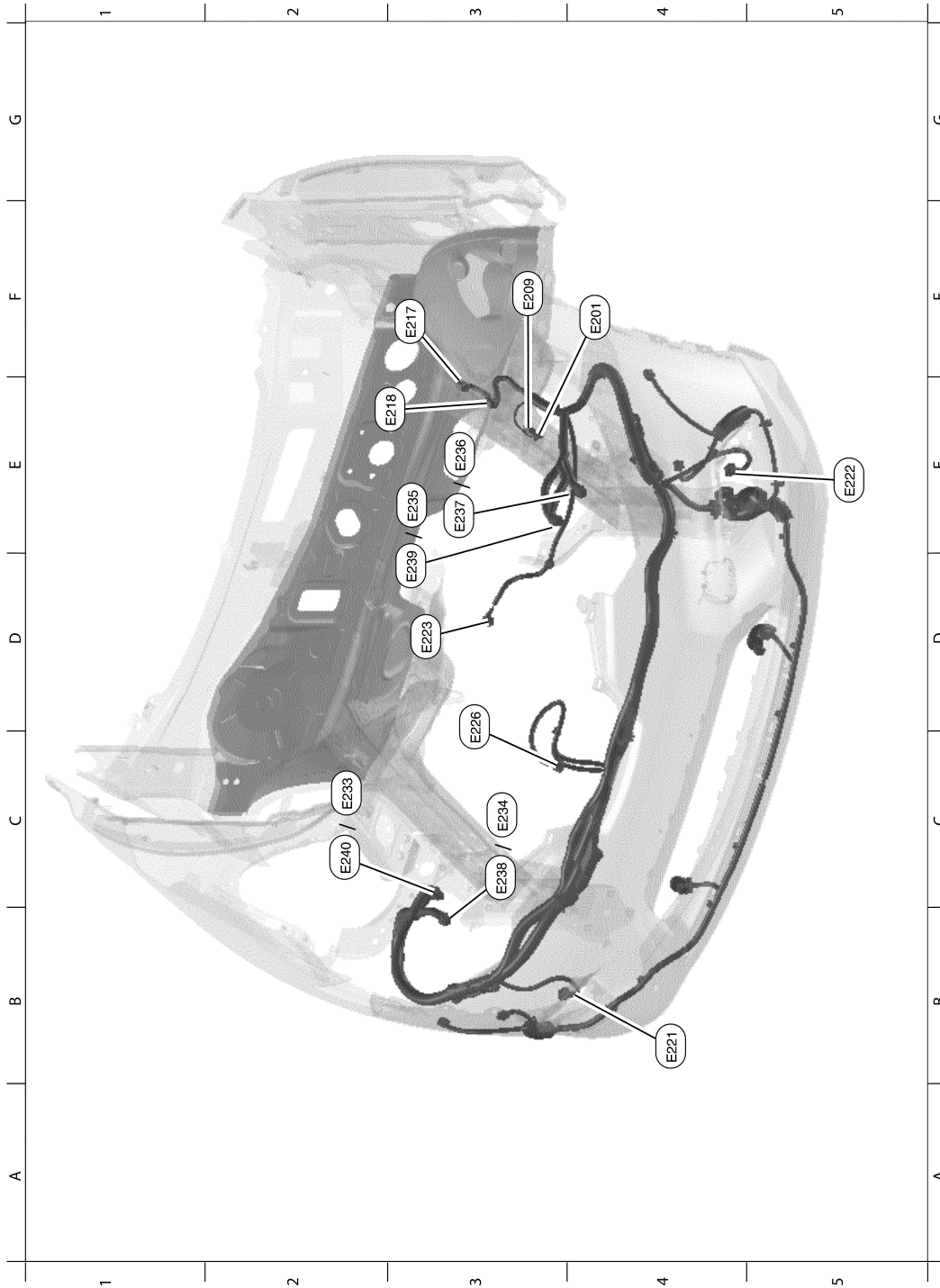
C3	E6	BR/2	: Brake pedal position switch	B2	E34	SMJ	: To B40
C2	E13	W/1	: Fuse block (J/B)	C4	E36	B/2	: To M75
B2	E17	W/1	: Fuse block (J/B)	D2	E38	W/4	: Stop lamp switch
C3	E25	B/6	: Accelerator pedal position	B2	E44	W/28	: Joint connector-E01

HARNESS

< WIRING DIAGRAM >

C2	E28	W/10	: Fuse block (J/B)	C3	E52	B/1	: Parking brake switch
C3	E29	B/24	: BCM (Body control module)	C3	E152	SMJ	: To M31

FRONT END MODULE HARNESS



AAMIA041622

F4	E201	W/4	: To E40	C2	E233	B/6	: Front combination lamp RH (With halogen headlamps)
F3	E209	W/24	: To E26	C3	E234	GR/6	: Front combination lamp RH (With halogen headlamps)

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

PG

HARNES

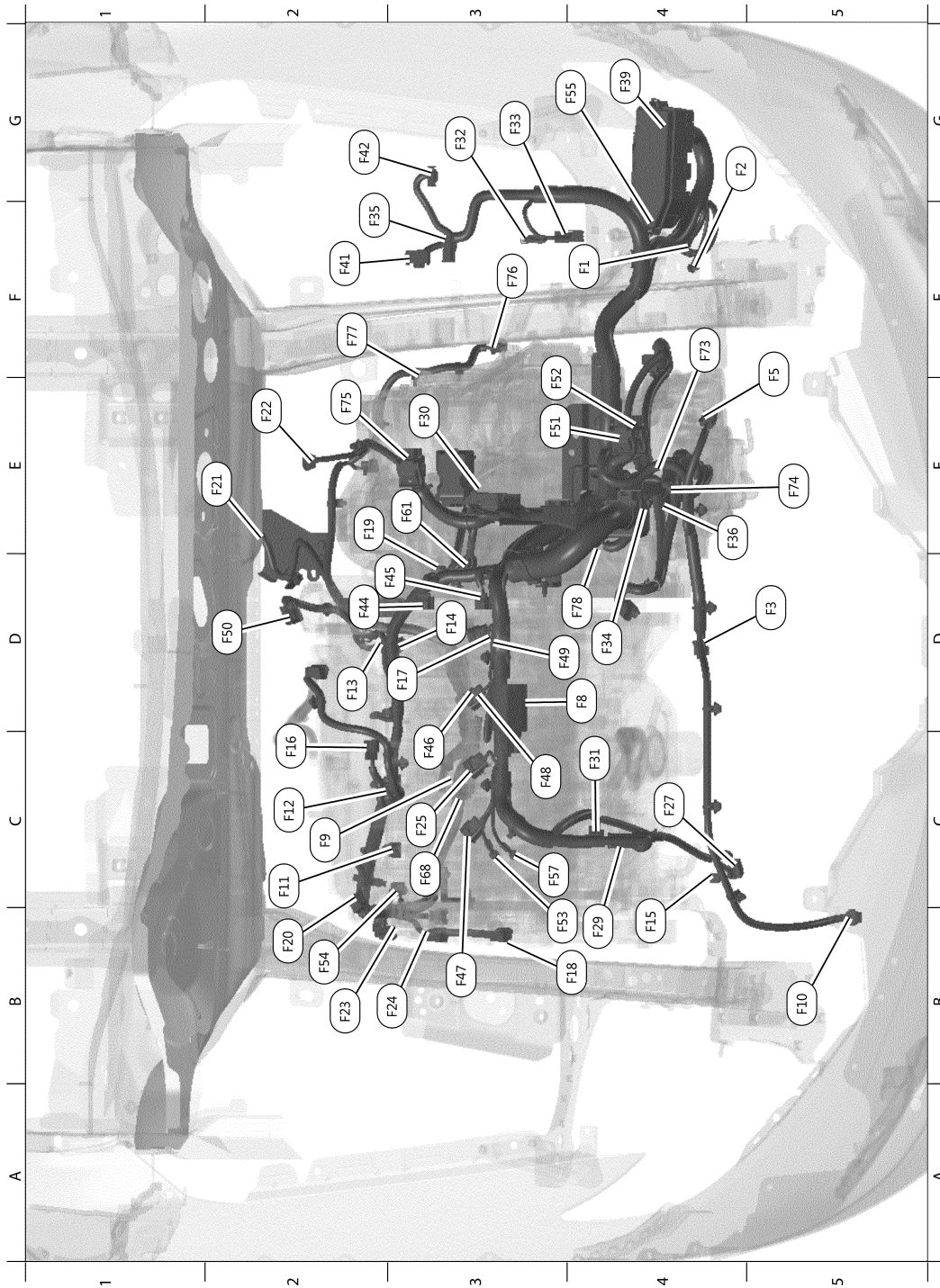
< WIRING DIAGRAM >

F3	E217	BR/8	: IPDM E/R (Intelligent power distribution module engine room)	E3	E235	B/6	: Front combination lamp LH (With halogen headlamps)
E3	E218	W/8	: IPDM E/R (Intelligent power distribution module engine room)	E3	E236	GR/6	: Front combination lamp LH (With halogen headlamps)
B4	E221	B/2	: Front fog lamp RH	E3	E237	B/3	: Front combination lamp LH(Head lamp aiming motor)
E5	E222	B/2	: Front fog lamp LH	C3	E238	B/3	: Front combination lamp RH(Head lamp aiming motor)
D3	E223	GR/2	: Hood switch	C3	E239	B/8	: Front combination lamp LH (With LED headlamps)
D3	E226	B/6	: Front camera	C2	E240	B/8	: Front combination lamp RH (With LED headlamps)

HARNESS

< WIRING DIAGRAM >

ENGINE CONTROL HARNESS



AAMIA04002Z

F4	F1	—	: Engine ground	D4	F34	—	: Starter motor
G4	F2	—	: Engine ground	F2	F35	W/16	: IPDM E/R (Intelligent power distribution module engine room)
D5	F3	GR/4	: Cooling fan motor-1	E4	F36	—	: Starter motor
F5	F5	GR/4	: Cooling fan motor-2	G4	F39	—	: Fusible link box (Battery)

HARNESS

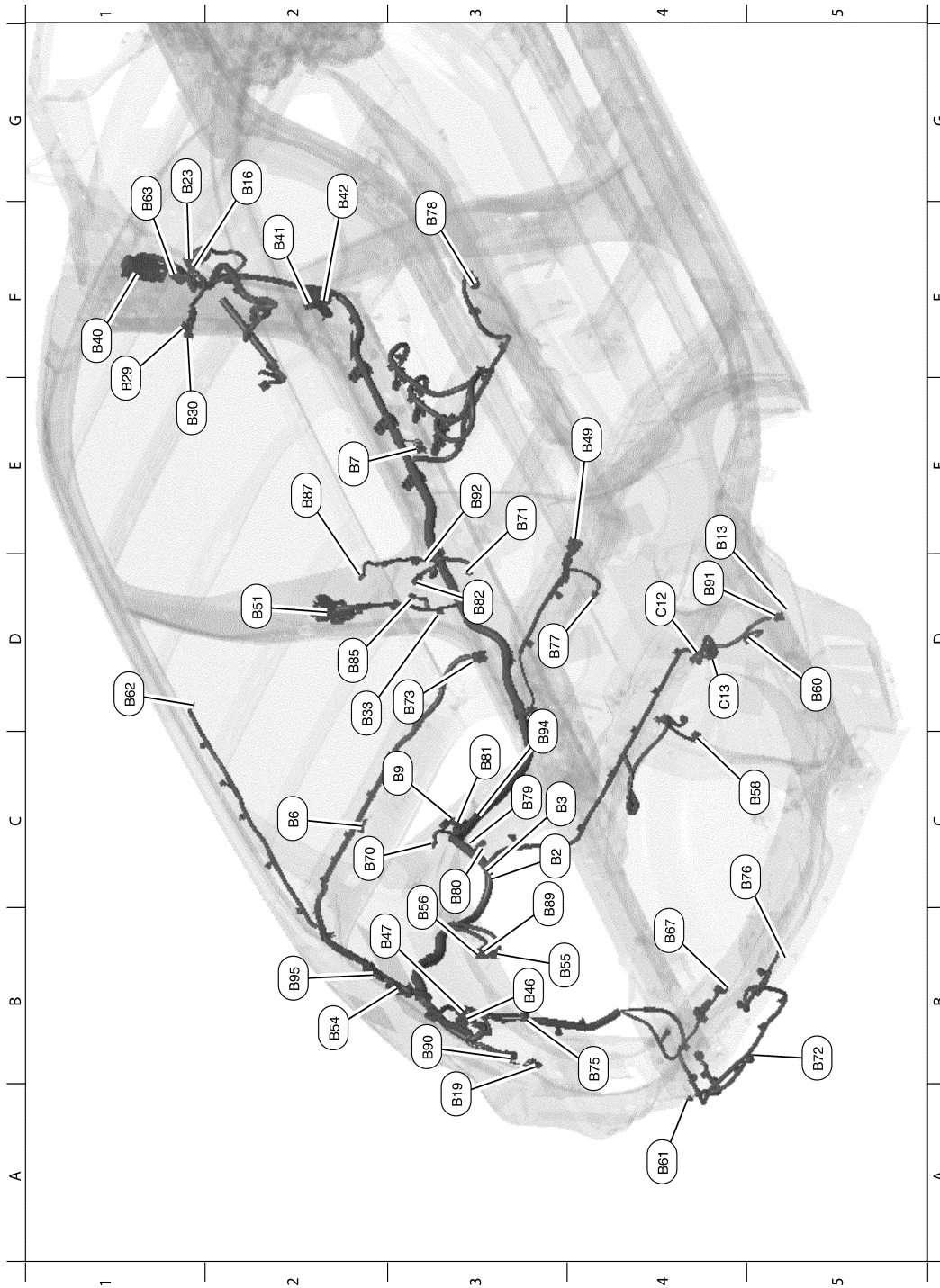
< WIRING DIAGRAM >

D4	F8	B/10	: Joint connector-F01	F2	F41	GR/6	: IPDM E/R (Intelligent power distribution module engine room)
C2	F9	GR/2	: Knock sensor	G2	F42	B/24	: IPDM E/R (Intelligent power distribution module engine room)
B5	F10	B/3	: Refrigerant pressure sensor	D2	F44	B/3	: Camshaft position sensor
C2	F11	GR/2	: Fuel injector no.1	D3	F45	B/3	: Exhaust valve timing control position sensor
C2	F12	GR/2	: Fuel injector no.2	C3	F46	GR/3	: Ignition coil no.2 (With power transistor)
D2	F13	GR/2	: Fuel injector no.4	B3	F47	GR/3	: Ignition coil no.2 (With power transistor)
D3	F14	GR/2	: Fuel injector no.3	C3	F48	GR/3	: Ignition coil no.2 (With power transistor)
B4	F15	GR/2	: A/C compressor (Electrical control valve)	D3	F49	GR/3	: Ignition coil no.2 (With power transistor)
C2	F16	L/2	: EVAP canister purge volume control solenoid valve	D2	F50	B/6	: Electric throttle control actuator
D3	F17	B/3	: Crankshaft position sensor	E3	F51	B/48	: ECM
B4	F18	GR/4	: Air fuel ratio (A/F) sensor 1	F3	F52	BR/48	: ECM
E2	F19	B/2	: Intake manifold runner control valve	B3	F53	—	: Engine ground
B2	F20	B/3	: Intake manifold runner control valve position sensor	B2	F54	B/3	: Engine oil pressure sensor
E2	F21	B/4	: Heated oxygen sensor 2	G4	F55	L/4	: Starter cut relay
E2	F22	B/4	: Mass air flow sensor	C3	F57	—	: Engine ground
B2	F23	GR/2	: Intake valve intermediate lock timing control solenoid valve	E3	F61	GR/2	: Engine coolant temperature sensor
B3	F24	GR/2	: Exhaust valve timing control solenoid valve	C3	F68	GR/2	: Engine oil temperature sensor
C3	F25	GR/2	: Intake valve timing control solenoid valve	F4	F73	B/3	: Input speed sensor
C4	F27	B/2	: A/C compressor (Magnet clutch)	E5	F74	GR/22	: CVT unit
B4	F29	—	: Generator	E2	F75	B/48	: TCM (Transmission control module)
E3	F30	B/1	: Fusible link box (Battery)	F3	F76	B/3	: Primary speed sensor
C4	F31	B/2	: Generator	F2	F77	B/3	: Output speed sensor
G3	F32	W/2	: To E2	D4	F78	B/10	: Transmission range switch
G3	F33	BR/16	: To E19				

HARNESS

< WIRING DIAGRAM >

BODY HARNESS



AAMIA042022

C3	B2	W/4	: Joint connector-B27	G1	B63	GR/24	: Joint connector-B01
C3	B3	W/4	: Joint connector-B03	B4	B67	W/12	: Rear view camera washer control unit
C2	B6	B/1	: Rear window defogger condenser	C2	B70	W/4	: Rear door switch LH
E2	B7	—	: Body ground	E3	B71	W/4	: Front door switch LH
C3	B9	O/2	: Front LH seat belt pre-tensioner (Lap belt)	B5	B72	B/2	: Rear view camera air pump motor

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

PG

HARNESSES

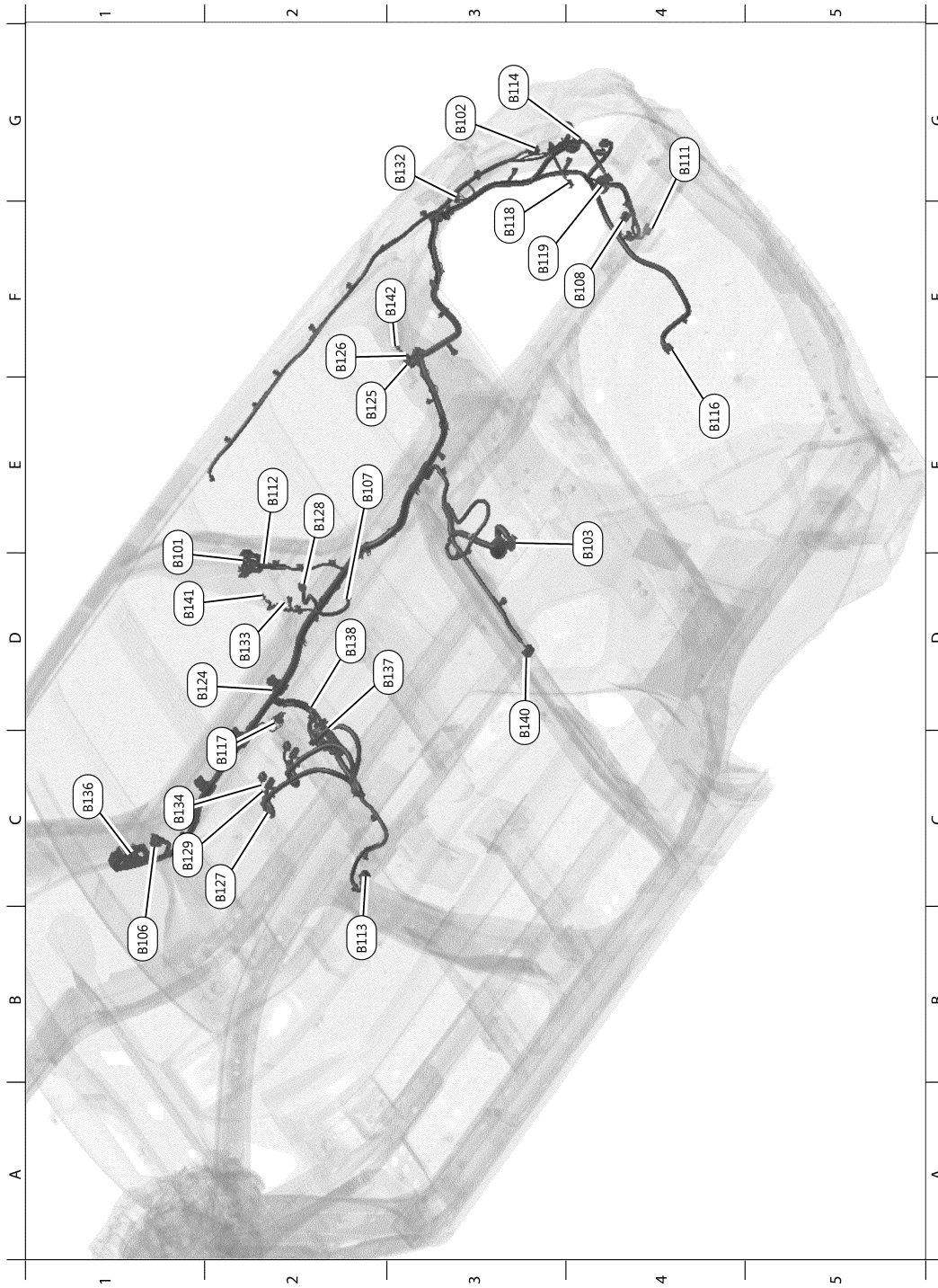
< WIRING DIAGRAM >

E4	B13	B/2	: To C13	D3	B73	W/8	: Power back door spindle unit RH
G2	B16	G/40	: BCM (Body control module)	B4	B75	W/16	: AWD control unit
A3	B19	—	: Body ground	C5	B76	GR/2	: Outside key antenna (Rear bumper)
G1	B23	GR/16	: BCM (Body control module)	D3	B77	GR/2	: Inside key antenna (Console)
E1	B29	W/6	: Fuse block (J/B)	F3	B78	Y/22	: Air bag diagnosis sensor unit
E1	B30	W/8	: Fuse block (J/B)	C3	B79	W/4	: Joint connector-B26
D2	B33	—	: Body ground	C3	B80	Y/2	: Rear side satellite sensor LH
F1	B40	GR/100	: To E34	C3	B81	Y/2	: Front side air bag satellite sensor LH
F2	B41	W/32	: To M69	D3	B82	Y/2	: Front LH side air bag module
G2	B42	W/16	: To M74	D2	B85	Y/2	: Front LH seat belt pre-tensioner (Shoulder belt)
B3	B46	W/32	: To D501	E2	B87	W/4	: Seat belt buckle switch (Driver seat)
B2	B47	W/16	: To D502	C3	B89	W/4	: Joint connector-B25
E4	B49	W/12	: To B140	B3	B90	W/4	: Rear combination lamp LH
D2	B51	W/12	: To D201	D4	B91	B/3	: Rear height sensor
B2	B54	W/2	: To D505	E3	B92	W/6	: To B202
B3	B55	B/24	: Automatic back door control module	D3	B94	W/4	: Joint connector-B24
C3	B56	GR/14	: Automatic back door control module	B2	B95	W/8	: Spindle unit LH
C5	B58	B/2	: Rear wheel sensor LH	Chassis Harness			
D5	B60	B/2	: Rear wheel sensor RH	D4	C12	GR/2	: AWD solenoid
A4	B61	BR/2	: Automatic back door warning buzzer	D4	C13	B/2	: To B13
D1	B62	Y/2	: LH side curtain air bag module				

HARNESS

< WIRING DIAGRAM >

BODY NO. 2 HARNESS



AAMIA02662Z

E1	B101	W/12	: To D301	E2	B125	W/4	: Joint connector-B30
G3	B102	W/4	: Rear combination lamp RH	F2	B126	Y/2	: Rear side satellite sensor RH
E4	B103	GR/6	: Fuel level sensor unit and fuel pump (Main)	C2	B127	W/4	: To B350
B1	B106	W/6	: To M8	E2	B128	Y/2	: Front side air bag satellite sensor RH

HARNESS

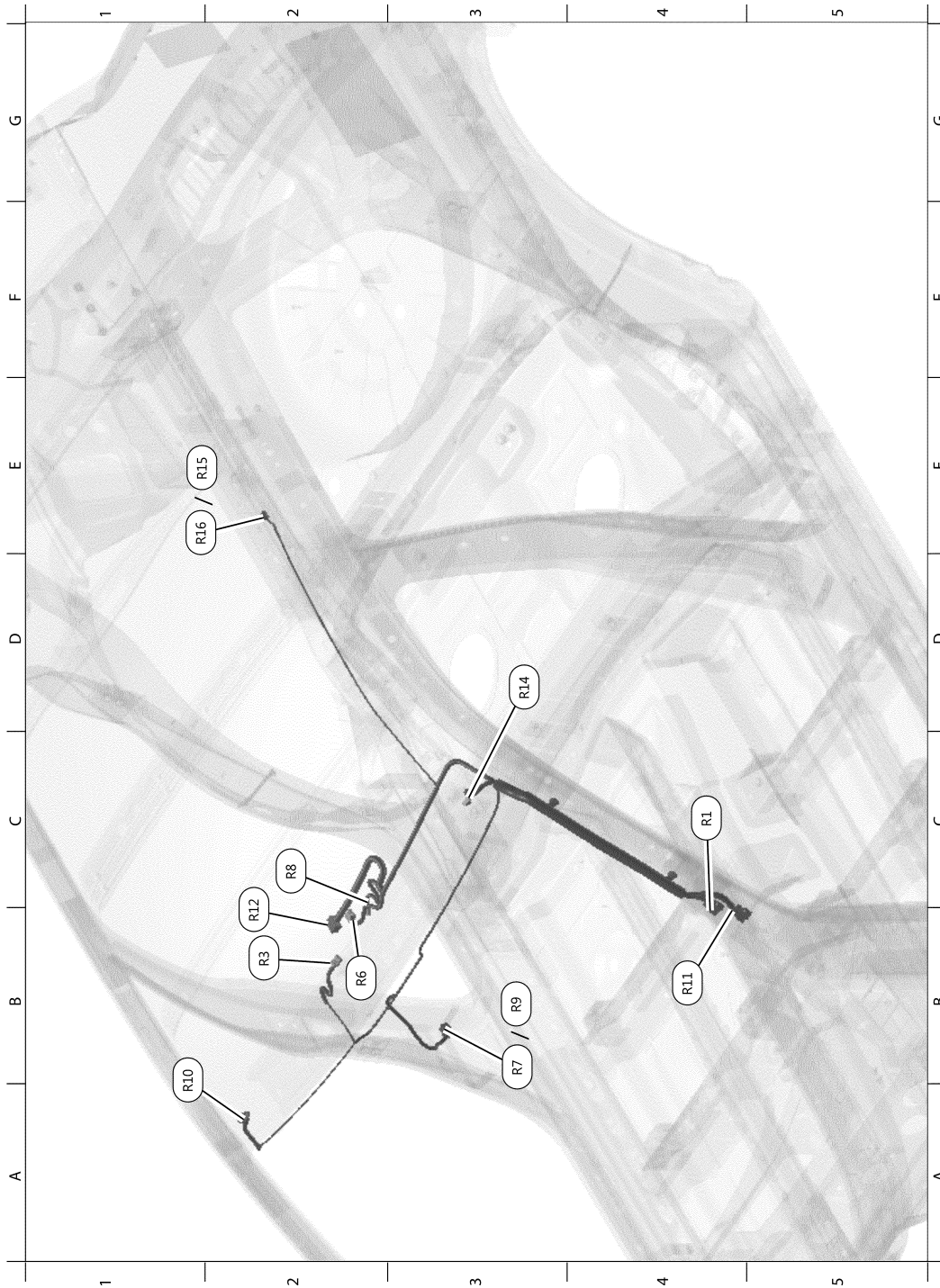
< WIRING DIAGRAM >

E2	B107	O/2	: Front RH seat belt pre-tensioner (Lap belt)	C1	B129	Y/2	: Front RH side air bag module
F4	B108	B/2	: EVAP canister vent control valve	G3	B132	—	: Body ground
G4	B111	GR/3	: EVAP control system pressure sensor	D2	B133	Y/2	: Front RH seat belt pre-tensioner (Shoulder belt)
E2	B112	—	: Body ground	C1	B134	W/6	: To B300
B2	B113	Y/22	: Air bag diagnosis sensor unit	C1	B136	SMJ	: To M36
G3	B114	B/3	: Rear cargo power socket	D3	B137	BR/14	: BOSE speaker amp.
E4	B116	GR/6	: Subwoofer	D2	B138	BR/23	: BOSE speaker amp.
C2	B117	—	: Body ground	D3	B140	W/12	: To B49
F3	B118	W/2	: Luggage room lamp	D1	B141	W/4	: Front door switch RH
F3	B119	Y/2	: RH side curtain air bag module	F3	B142	W/4	: Rear door switch RH
D1	B124	W/4	: Joint connector-B29				

HARNESS

< WIRING DIAGRAM >

ROOM LAMP HARNESS



AAMIA02592Z

C4	R1	W/8	: To M21	B1	R10	W/2	: Vanity lamp RH
B2	R3	W/12	: Moonroof switch	B4	R11	W/24	: To M156
B2	R6	W/8	: Map lamp	C2	R12	W/12	: To R13
B3	R7	B/10	: Auto anti-dazzling inside mirror (With homelink universal transceiver)	D3	R14	W/2	: Vanity lamp LH

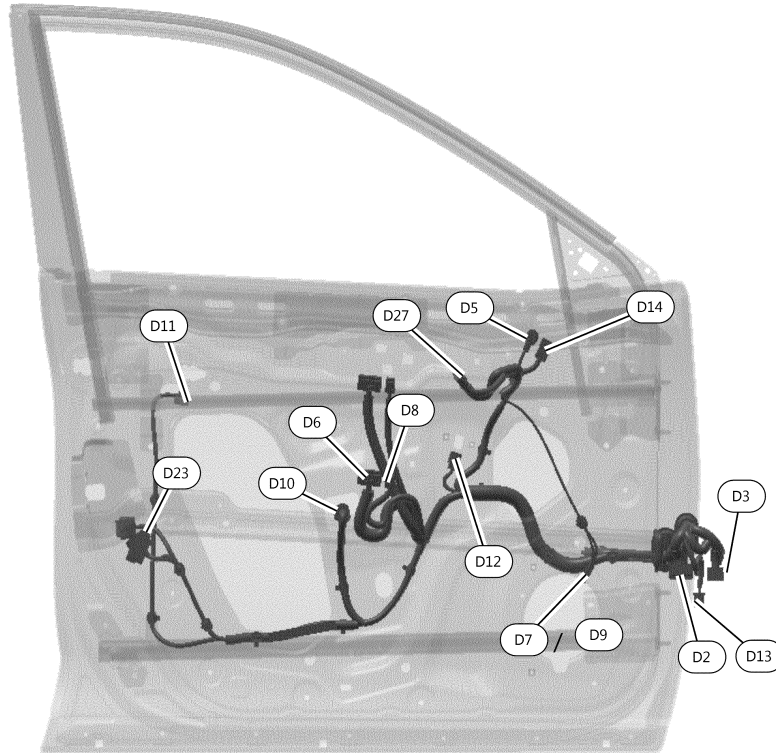
A
B
C
D
E
F
G
H
I
J
K
L
PG
N
O
P

HARNESS

< WIRING DIAGRAM >

C2	R8	W/6	: Microphone	E1	R15	W/3	: Room lamp
B3	R9	B/7	: Auto anti-dazzling inside mirror (Without universal transceiver)	E1	R16	W/4	: Personal lamp 2nd row

FRONT DOOR LH HARNESS



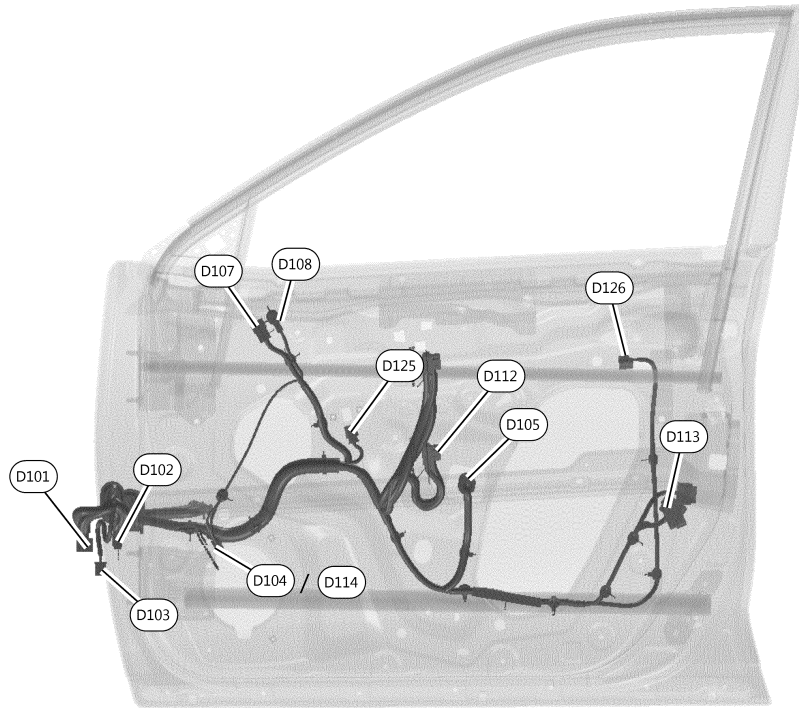
AAMIA02602Z

D2	W/16	: To M167	D10	G/6	: Front power window motor LH
D3	W/24	: To M168	D11	B/4	: Front outside handle assembly LH
D5	W/4	: Blind spot warning indicator LH	D12	Y/2	: Front door satellite sensor LH
D6	W/16	: Main power window and door lock/unlock switch	D13	Y/4	: To M169
D7	W/2	: Front door speaker LH (Without BOSE audio system)	D14	W/16	: Door mirror LH
D8	W/3	: Main power window and door lock/unlock switch	D23	GR/6	: Front door lock assembly LH
D9	BR/2	: Front door speaker LH (With BOSE audio system)	D27	B/16	: Door mirror remote control switch

HARNESS

< WIRING DIAGRAM >

FRONT DOOR RH HARNESS



AAMIA0261ZZ

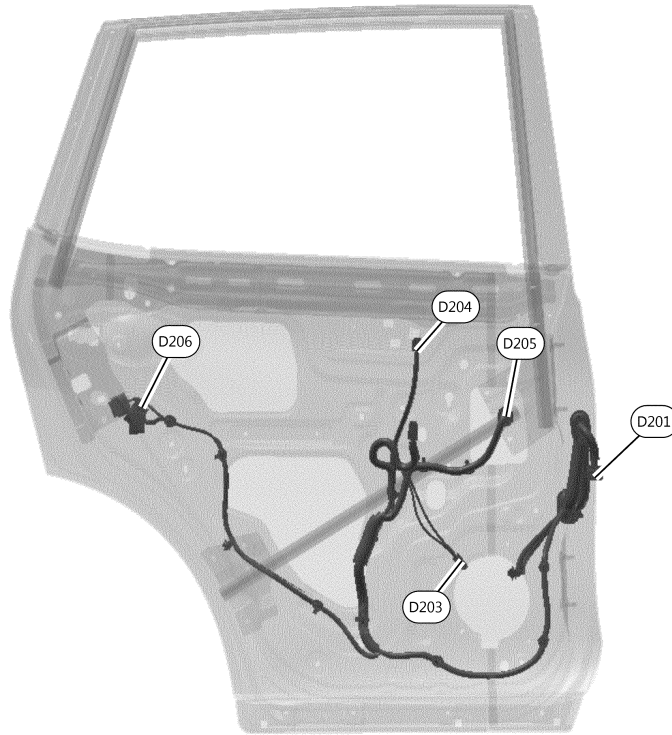
D101	W/24	: To M91	D108	W/4	: Blind spot warning indicator RH
D102	W/16	: To M158	D112	W/12	: Power window and door lock/unlock switch RH
D103	Y/4	: To M159	D113	GR/6	: Front door lock actuator RH
D104	W/2	: Front door speaker RH (Without BOSE audio system)	D114	BR/2	: Front door speaker RH (With BOSE audio system)
D105	G/6	: Front power window motor RH	D125	Y/2	: Front door satellite sensor RH
D107	W/16	: Door mirror RH	D126	B/4	: Front outside handle assembly RH

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

HARNESS

< WIRING DIAGRAM >

REAR DOOR LH HARNESS



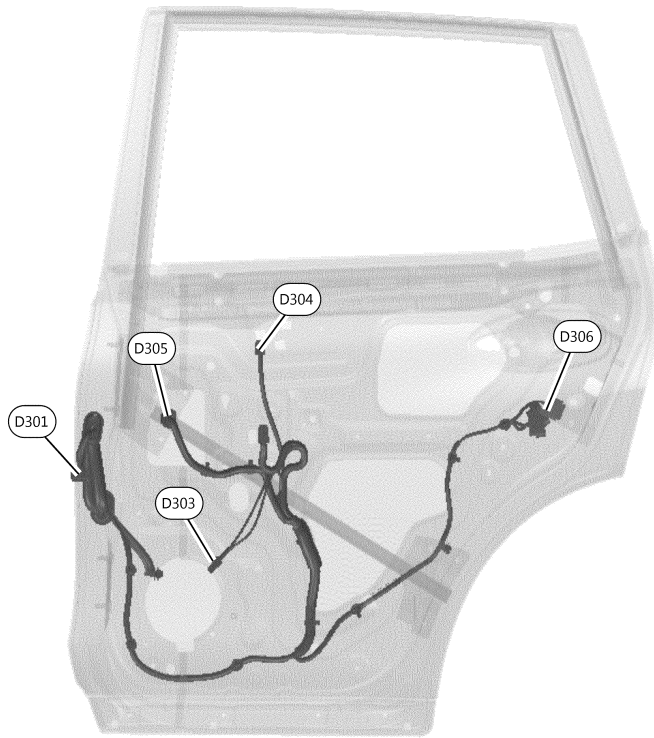
AAMIA0262ZZ

D201	W/12	: To B51	D205	G/5	: Rear power window motor LH
D203	W/2	: Rear door speaker LH	D206	GR/6	: Rear door lock actuator LH
D204	W/8	: Rear power window switch LH			

HARNESS

< WIRING DIAGRAM >

REAR DOOR RH HARNESS



AAMIA02632Z

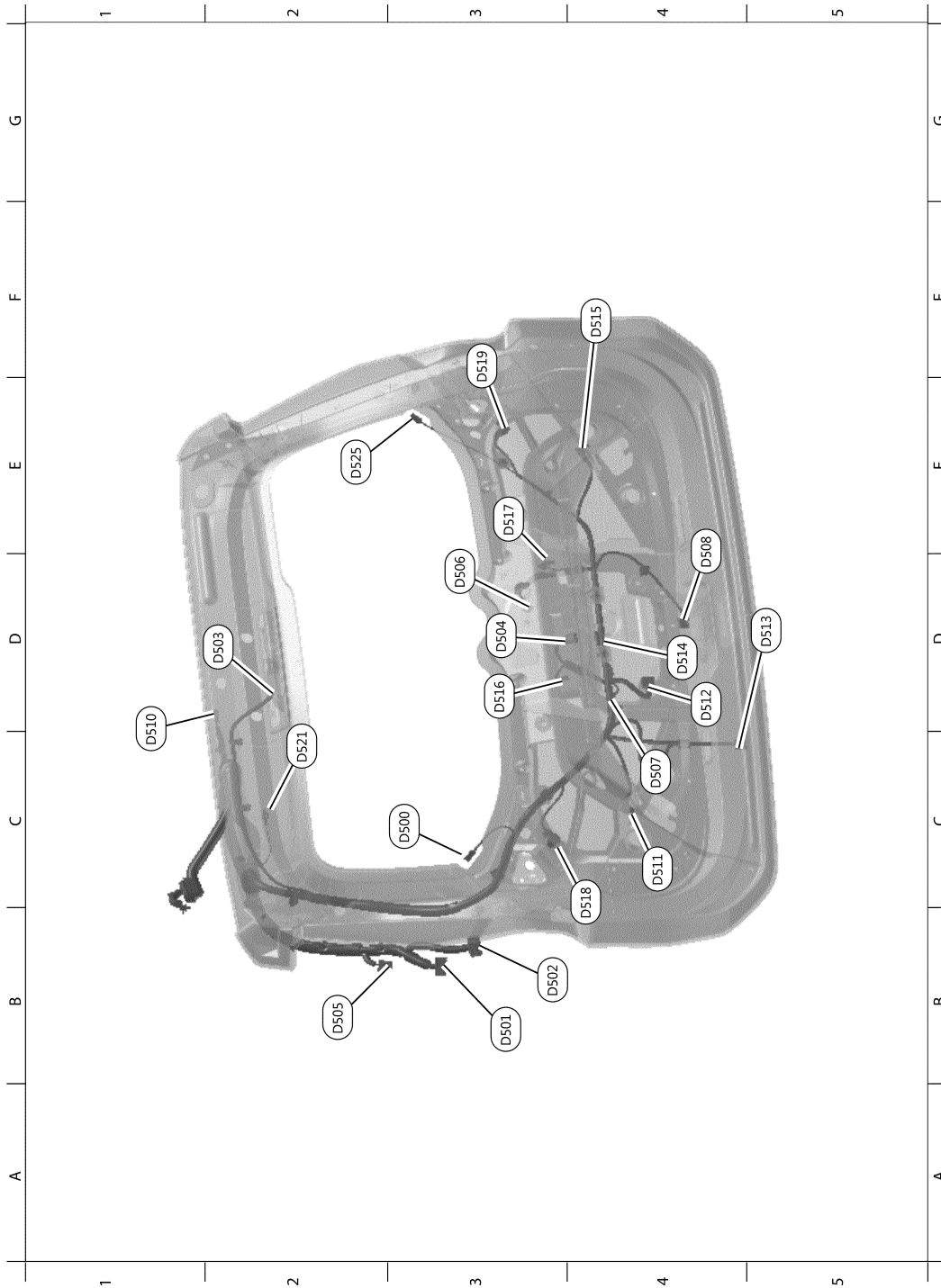
D301	W/12	: To B101	D305	G/6	: Rear power window motor RH
D303	W/2	: Rear door speaker RH	D306	GR/6	: Rear door lock actuator RH
D304	W/8	: Rear power window switch RH			

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

HARNESS

< WIRING DIAGRAM >

BACK DOOR HARNESS



AAMIA02642Z

C3	D500	B/1	: Rear window defogger condenser	D4	D512	W/8	: Back door lock assembly (With power back door system)
B3	D501	W/32	: To B46	D5	D513	GR/6	: Automatic back door close switch
B3	D502	W/16	: To B47	D4	D514	W/8	: Rear view camera (With driver assistance system)
D2	D503	W/2	: High-Mounted stop lamp	F4	D515	W/2	: Touch sensor RH

HARNES

< WIRING DIAGRAM >

D3	D504	B/6	: Rear view camera (Without driver assistance system)	D3	D516	BR/2	: License plate lamp LH	A
B2	D505	W/2	: To B54	E3	D517	BR/2	: License plate lamp RH	
D3	D506	W/3	: Rear wiper motor	C4	D518	W/3	: Back-up lamp assembly LH	B
C4	D507	W/4	: Back door opener switch	F3	D519	W/3	: Back-up lamp assembly RH	
E4	D508	W/4	: Back door lock assembly (Without power back door system)	C2	D521	—	: Body ground	C
D1	D510	B/1	: Rear window defogger	E2	D525	B/1	: Rear window defogger	
C4	D511	W/2	: Touch sensor LH					D

D

E

F

G

H

I

J

K

L

PG

N

O

P

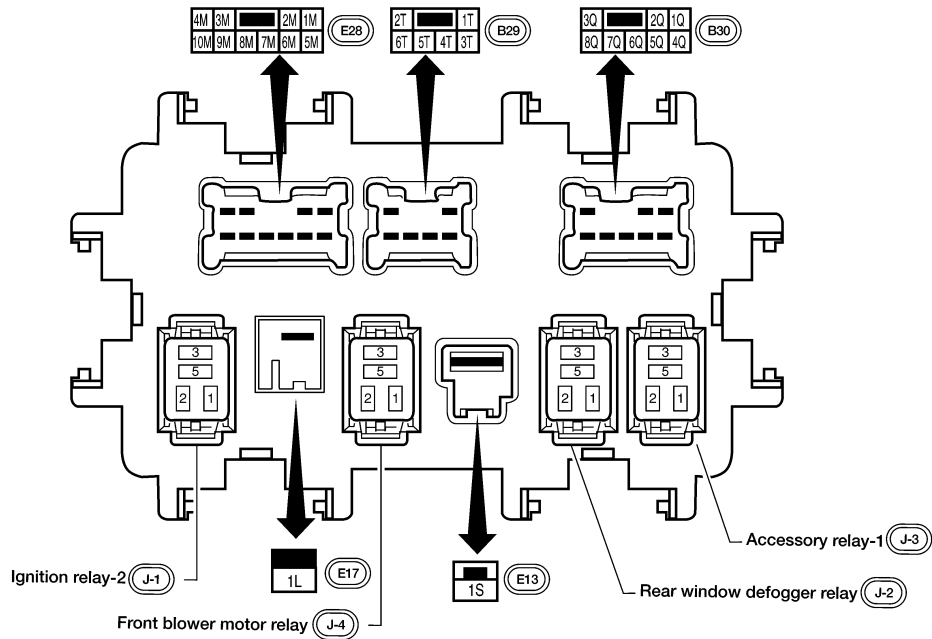
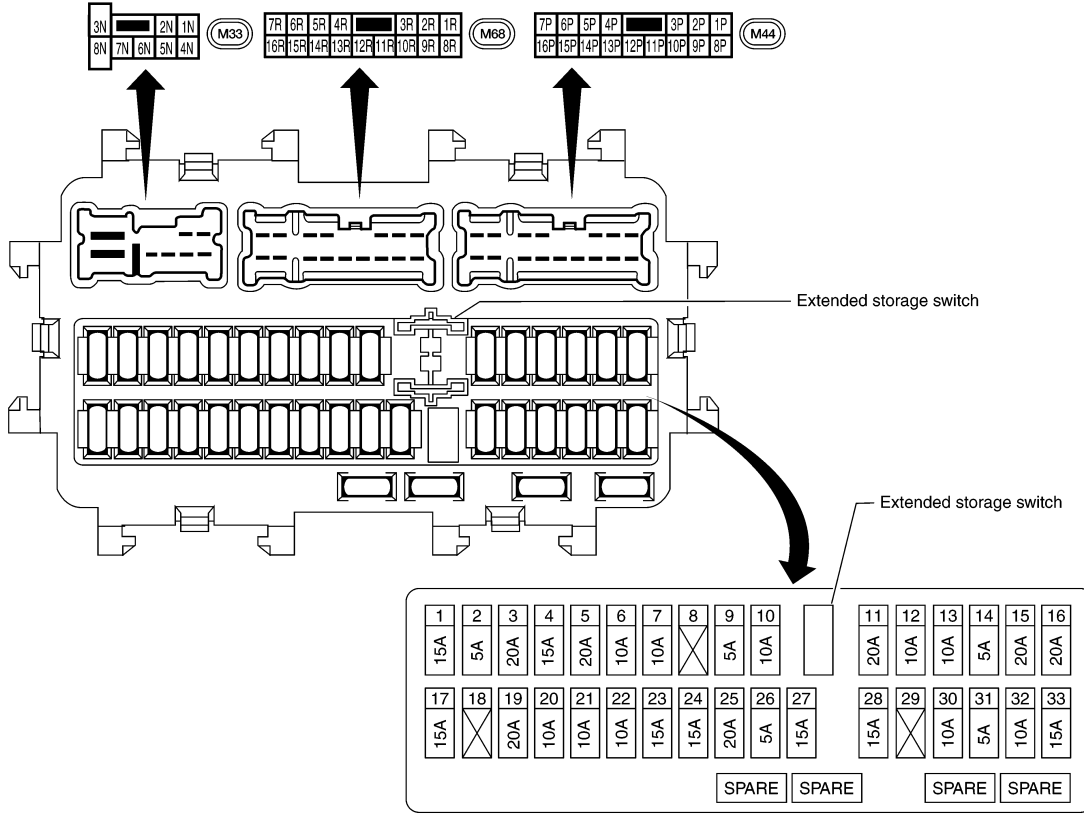
FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:000000011280952



AAMIA2858GB

FUSE, FUSIBLE LINK AND RELAY BOX

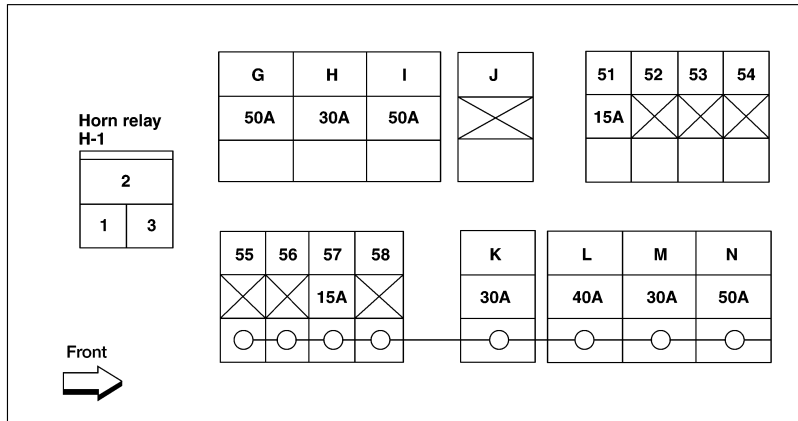
< WIRING DIAGRAM >

FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

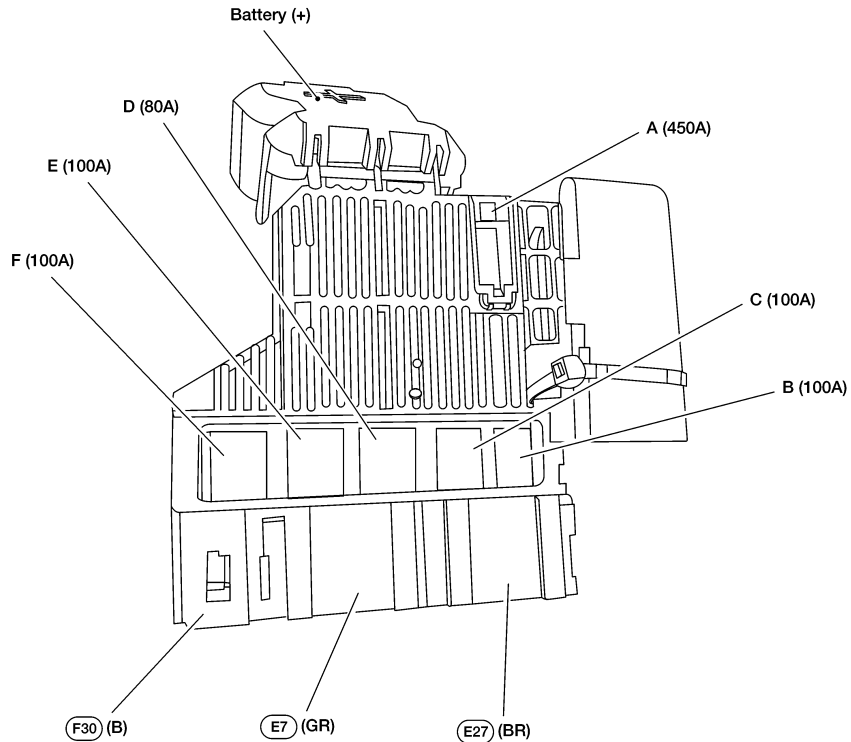
INFOID:000000011280953

FUSE, FUSIBLE LINK AND RELAY BOX 1



NO. 51 - 58 : FUSE G - N : FUSIBLE LINK

FUSIBLE LINK BOX (BATTERY)

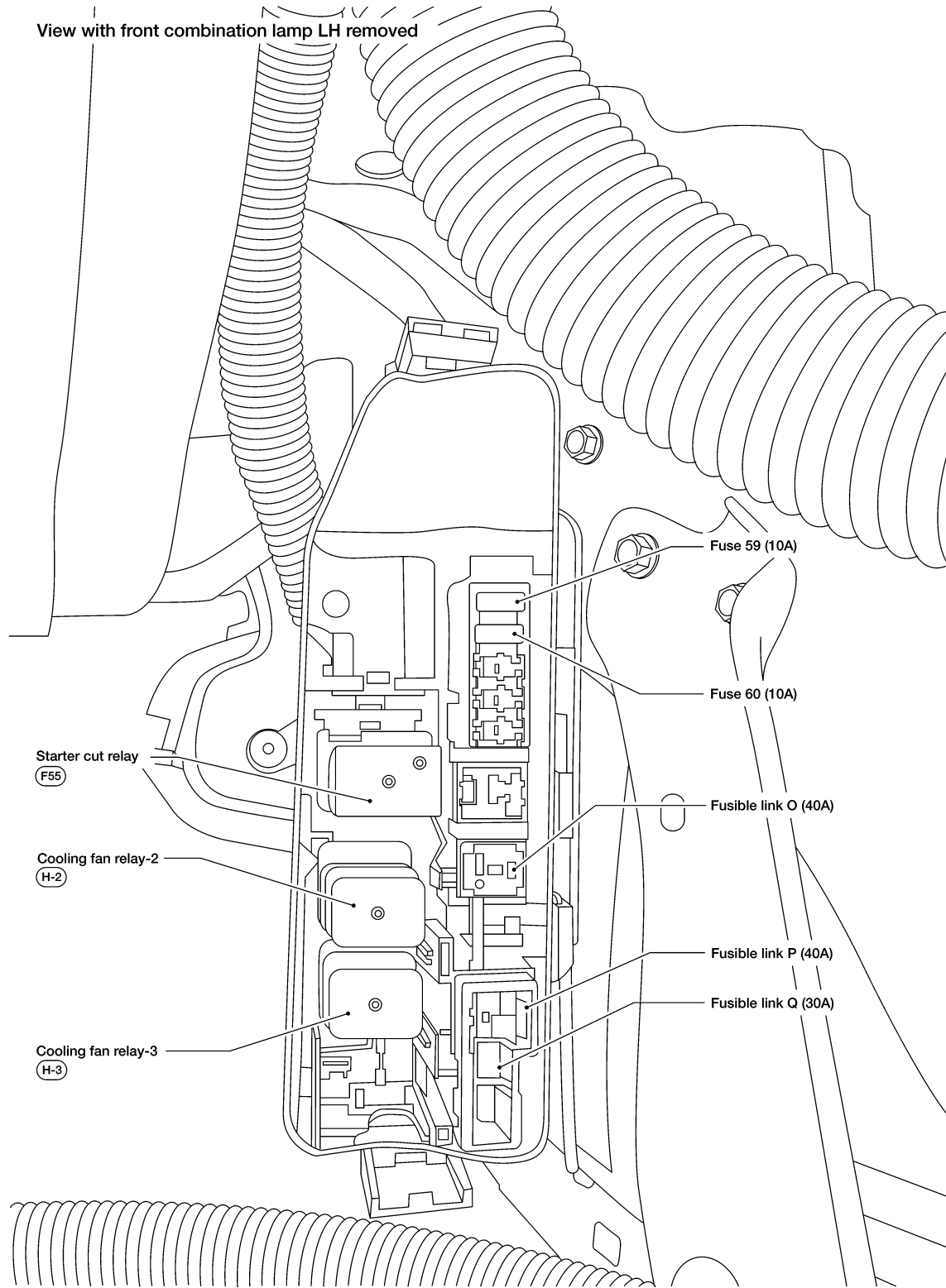


AAMIA2859GB

FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSE, FUSIBLE LINK AND RELAY BOX 2

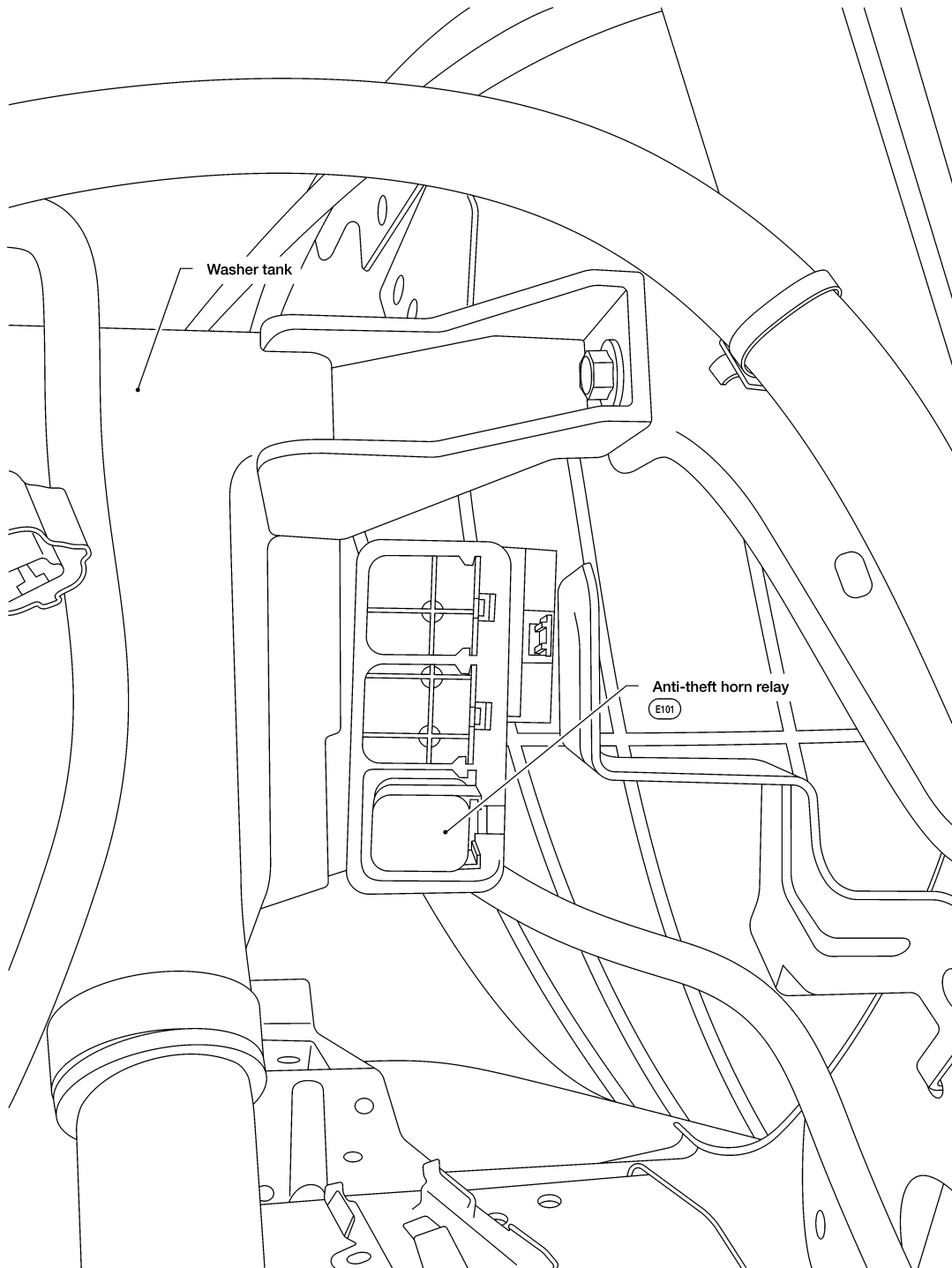


FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

RELAY BOX

View with front combination lamp RH removed



AAMIA2352GB

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

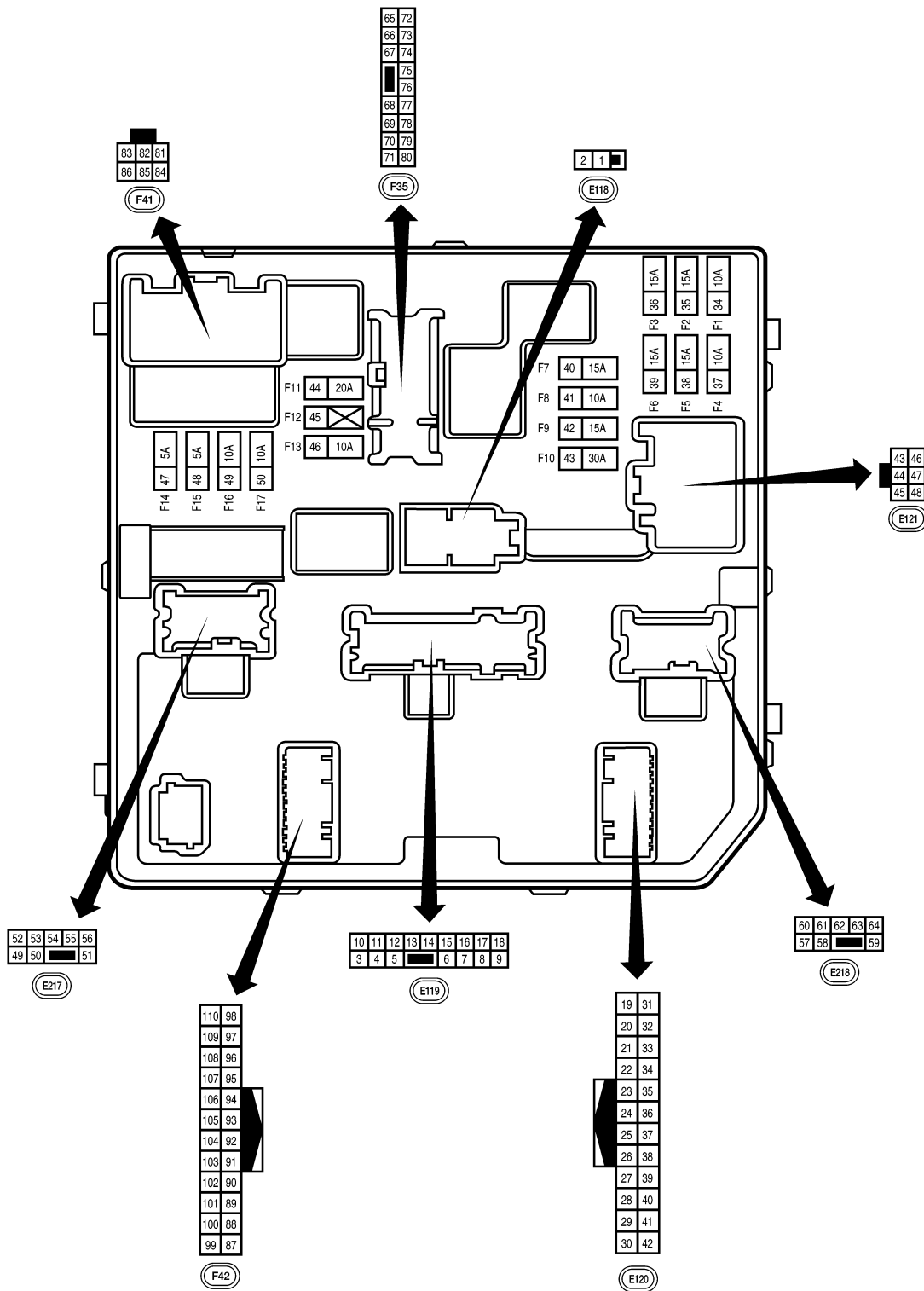
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

IPDM E/R Terminal Arrangement

INFOID:000000011280954



NOTE:

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

AAMIA040222

BATTERY

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY

How to Handle Battery

INFOID:0000000011280955

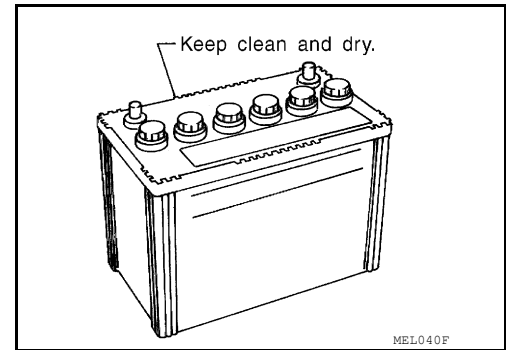
CAUTION:

- 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.

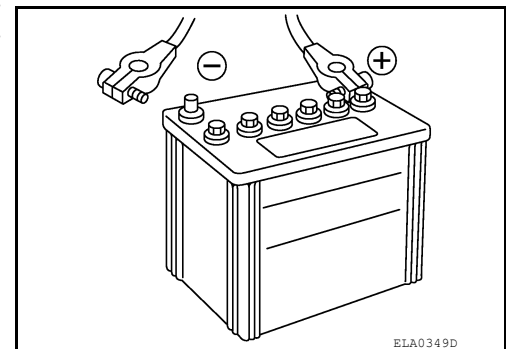
METHODS OF PREVENTING OVER-DISCHARGE

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:0000000011280956

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.

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

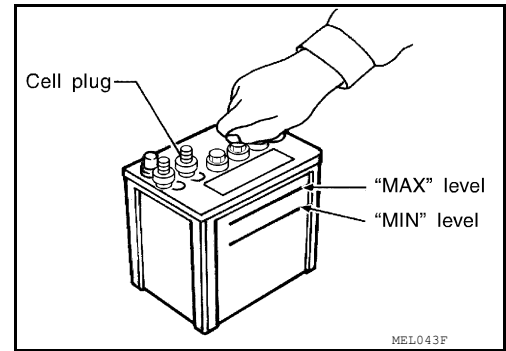
PG

N
O
P

BATTERY

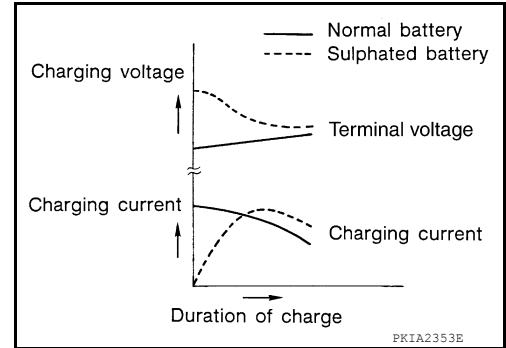
< BASIC INSPECTION >

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



SULFATION

- **A battery will be completely discharged if it is left unattended for a long time and the specific gravity will become less than 1.100. This may result in sulfation on the cell plates.**
- **To determine if a battery has been “sulfated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulfated batteries.**
- **A sulfated battery may sometimes be brought back into service by means of a long, slow charge, 12 hours or more, followed by a battery capacity test.**



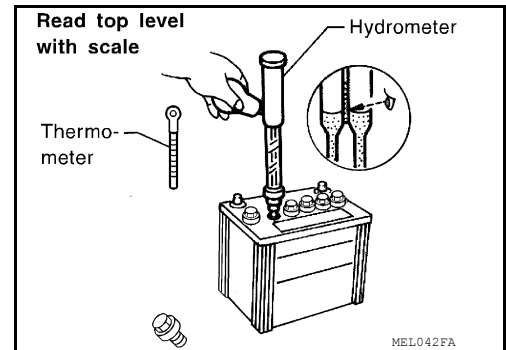
Specific Gravity Check

NOTE:

Check the charge condition of the battery.

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

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



Hydrometer Temperature Correction

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

BATTERY

< BASIC INSPECTION >

Battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
4 (40)	-0.016
-1 (30)	-0.020
-7 (20)	-0.024
-12 (10)	-0.028
-18 (0)	-0.032

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

Charging The Battery

CAUTION:

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

Charging Rates (Standard Charge)

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

Charging Rates (Quick Charge)

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

NOTE:

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

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

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

PG

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:000000011280957

Required Procedure After Battery Disconnection

System	Item	Reference
Engine Control System	Idle Air Volume Learning	EC-144
Door & Lock	Calibration Of Automatic Back Door Position Information	DLK-110
Power Window Control System	Power Window System Initialization	PWC-28
Roof	Moonroof Memory Reset/Initialization Sunshade Memory Reset/Initialization	RF-25
Heater & Air Conditioning Control System	Temperature Setting Trimmer	HAC-50 (Automatic air conditioning)
	Foot Position Setting Trimmer	HAC-50 (Automatic air conditioning)
	Inlet Port Memory Function (FRE)	HAC-50 (Automatic air conditioning)
	Inlet Port Memory Function (REC)	HAC-51 (Automatic air conditioning)
	Target Evaporator Temp Upper Limit	HAC-51 (Automatic air conditioning) HAC-151 (Manual air conditioning)
Audio, Visual and Navigation System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation System	Refer to Owner's Manual.

FUSE INSPECTION

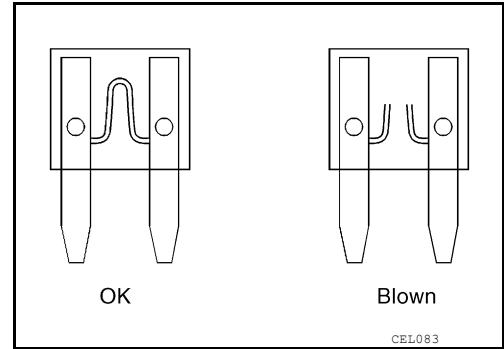
< BASIC INSPECTION >

FUSE INSPECTION

How To Check

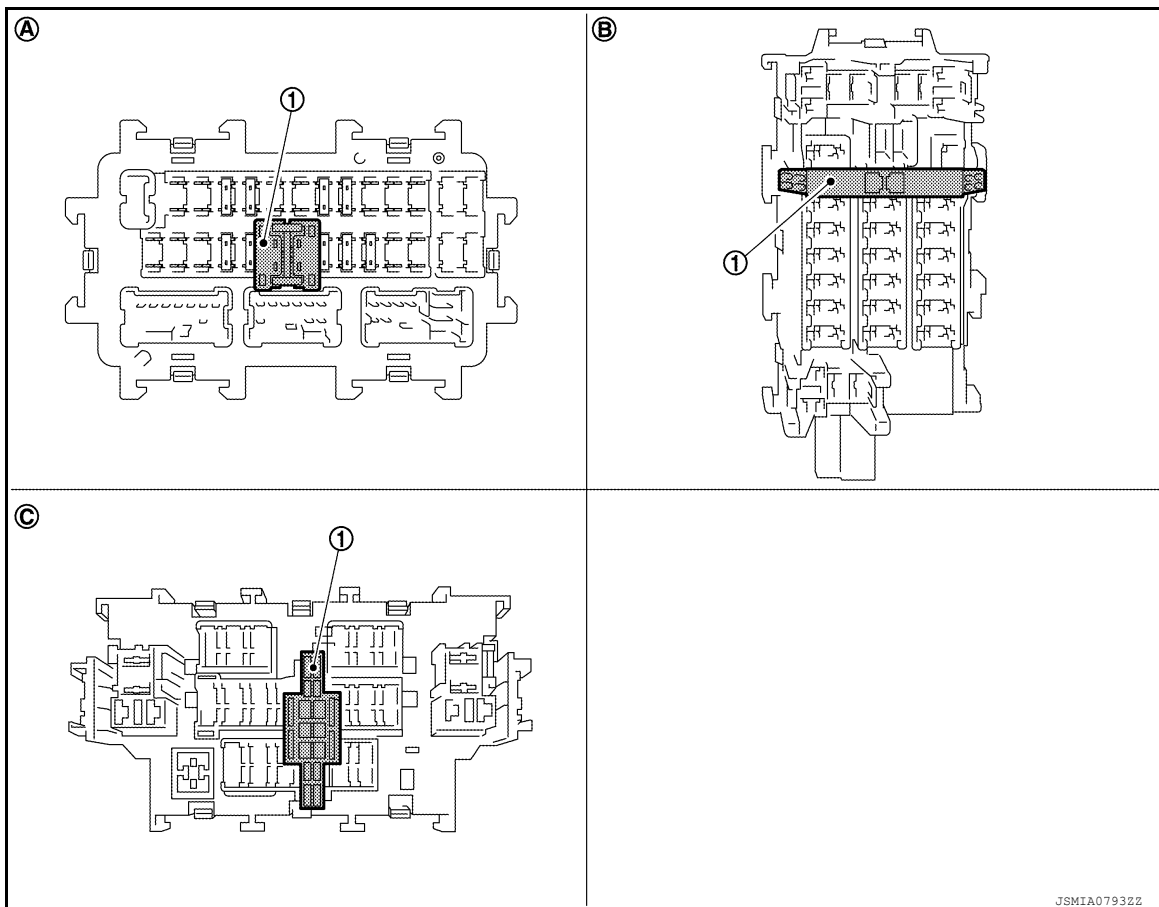
INFOID:000000011280958

- 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 FUSE SWITCH (IF EQUIPPED)

The following switch may be mounted on the fuse block (Junction Box) for transportation and storage.



① Extended storage fuse switch

Ⓐ Type A

Ⓑ Type B

Ⓒ Type C

Remove the extended storage fuse switch if it causes the interference when checking fuses.

How To Extended Storage Fuse Switch ON/OFF

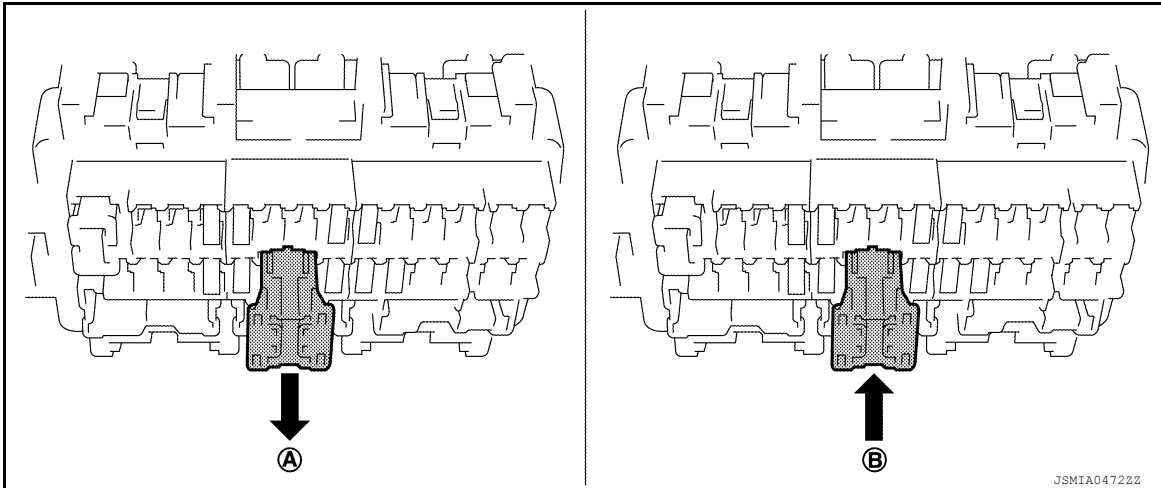
CAUTION:

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

FUSE INSPECTION

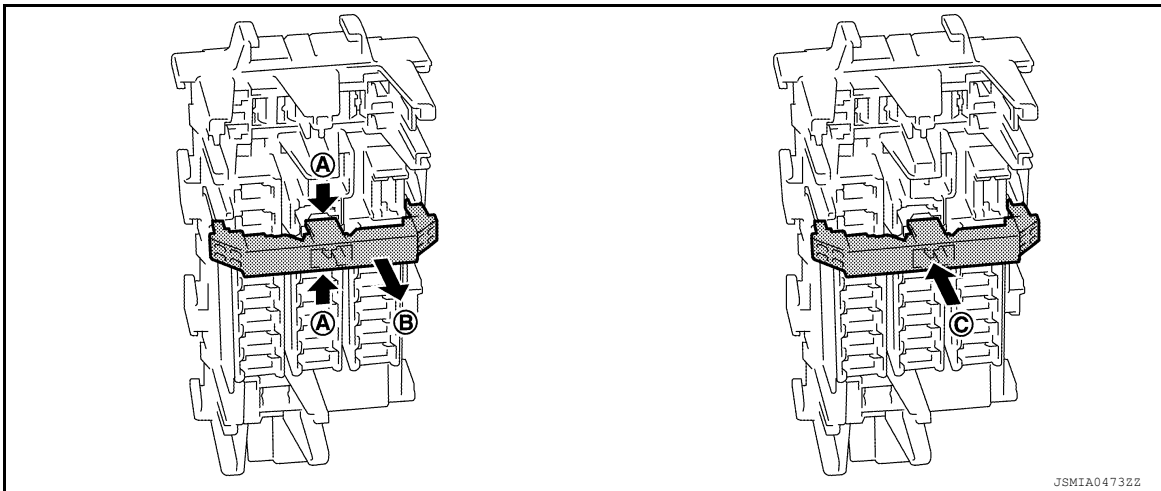
< BASIC INSPECTION >

• Type A



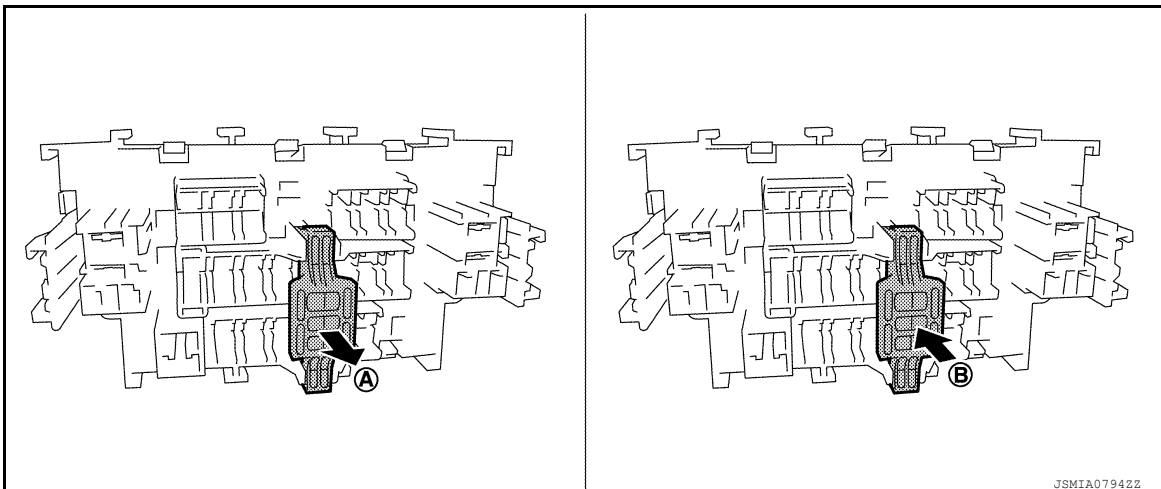
- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

• Type B



- To turn the extended storage fuse switch OFF, hold (A) of the switch and pull up in (B) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (C) direction as shown in the figure.

• Type C



- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

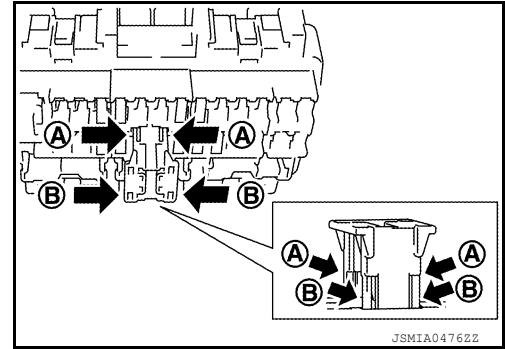
How To Remove Extended Storage Fuse Switch

Type A

FUSE INSPECTION

< BASIC INSPECTION >

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



CAUTION:

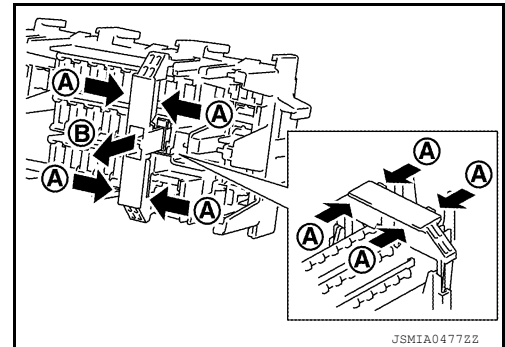
Never use fuse for bus bar.

NOTE:

- Extended storage fuse switch and bus bar are removed together. Remove bus bar from extended storage fuse switch, if necessary.
- Install removed bus bar to fuse block.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

Type B

1. Turn the ignition switch OFF.
2. Turn the extended storage fuse switch OFF.
3. Hold (A) and pull up the extended storage fuse switch hard in (B) direction.



CAUTION:

Never use fuse for bus bar.

NOTE:

- Extended storage fuse switch and bus bar may be removed together. Remove bus bar from extended storage fuse switch, if necessary.
- Install removed bus bar to fuse block.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

Type C

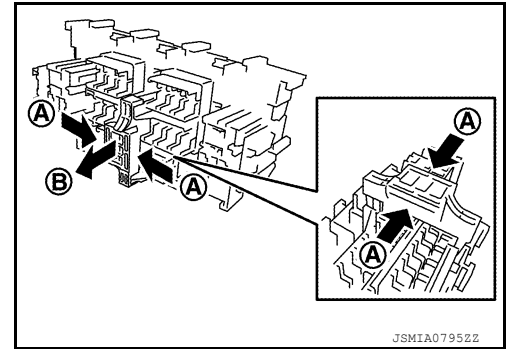
1. Turn the ignition switch OFF.
2. Turn the extended storage fuse switch OFF.

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

FUSE INSPECTION

< BASIC INSPECTION >

3. Hold (A) and pull up the extended storage fuse switch hard in (B) direction.



CAUTION:

Never use fuse for bus bar.

NOTE:

- Extended storage fuse switch and bus bar are removed together. Remove bus bar from extended storage fuse switch, if necessary.
- Install removed bus bar to fuse block.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

FUSIBLE LINK INSPECTION

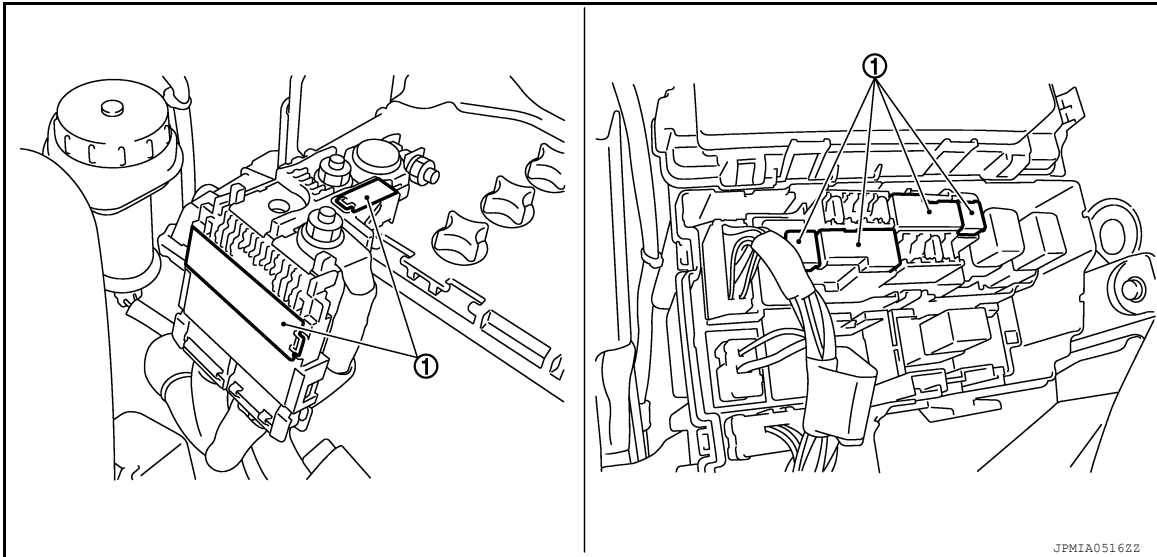
< BASIC INSPECTION >

FUSIBLE LINK INSPECTION

Fusible Link

INFOID:000000011280959

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



1 : Fusible link

CAUTION:

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

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

BATTERY

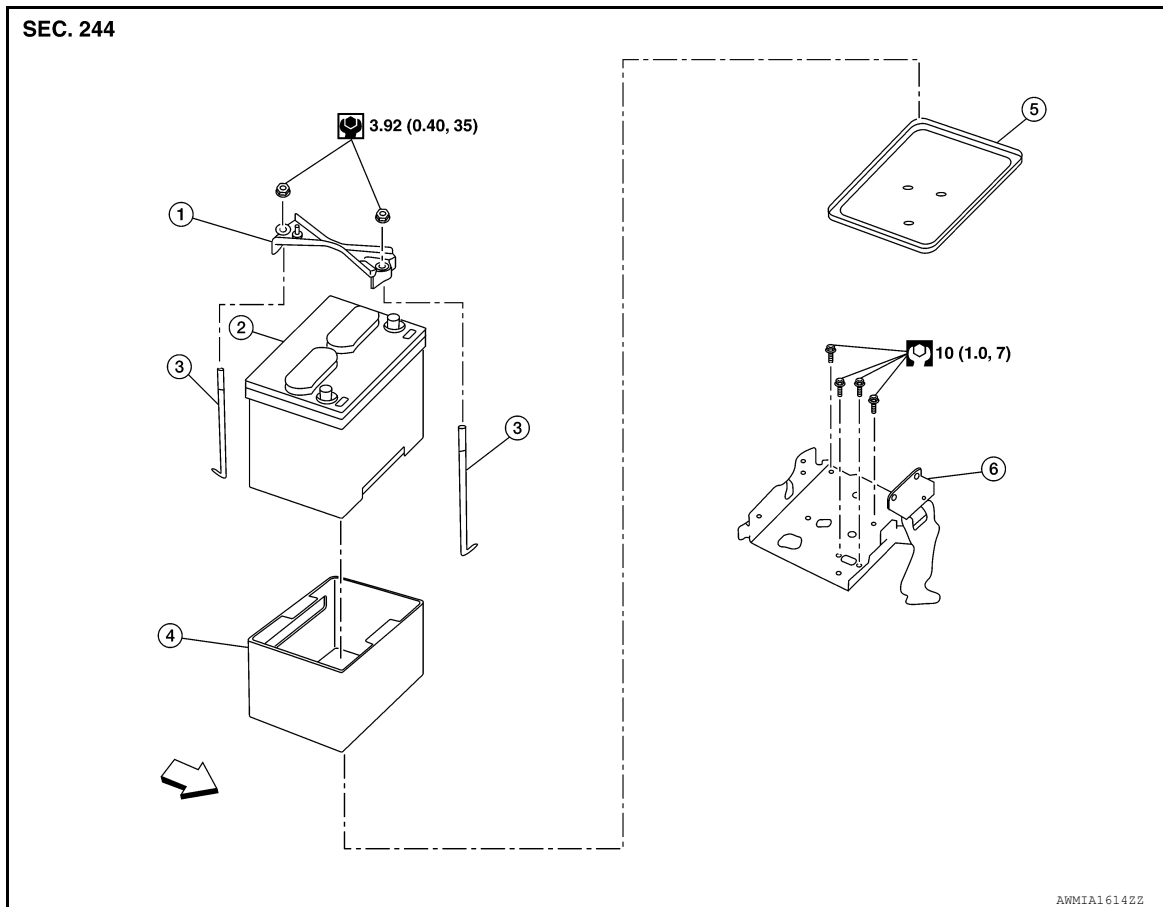
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:000000011280960



1. Battery frame

2. Battery

3. Battery rod

4. Battery cover

5. Battery tray liner

6. Battery tray

⇐ Front

Removal and Installation (Battery)

INFOID:000000011280961

REMOVAL

1. Pull back cover of battery positive terminal.
2. Loosen the battery terminal nuts and disconnect the battery negative and positive terminals.

CAUTION:

To prevent damage to the parts, disconnect the battery negative terminal first.

3. Remove battery frame nuts, battery frame and battery rods.
4. Remove battery cover and battery.

INSTALLATION

Installation is in the reverse order of removal.

WARNING:

Do not allow battery fluid to come into 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

< REMOVAL AND INSTALLATION >

CAUTION:

- Make sure battery tray liner is clean prior to installing new battery.
- To prevent damage to the parts, connect the battery positive terminal first.
- Make sure battery cables are tightly clamped to battery terminals for good contact.
- Check battery terminal for poor connection caused by corrosion.

Battery terminal nut : 5.39 N-m (0.55 kg-m, 48 in-lb)

Reset electronic systems as necessary. Refer to [.PG-72, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#)

Removal and Installation (Battery Tray)

INFOID:000000011280962

REMOVAL

1. Remove battery. Refer to [PG-78, "Removal and Installation \(Battery\)"](#).
2. Remove air duct. Refer to [EM-26, "Exploded View"](#).
3. Disconnect harness connector from TCM.
4. Remove wiring harness retainers.
5. Disconnect harness connectors from ECM.
6. Remove battery tray. Refer to [PG-78, "Exploded View"](#)
7. Remove TCM bracket from battery tray (if necessary).
8. Remove ECM bracket from battery tray (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

- Reset electronic systems as necessary. Refer to [PG-72, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).
- Perform the "Throttle Valve Closed Position Learning". Refer to [EC-135, "Work Procedure"](#).

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

PG

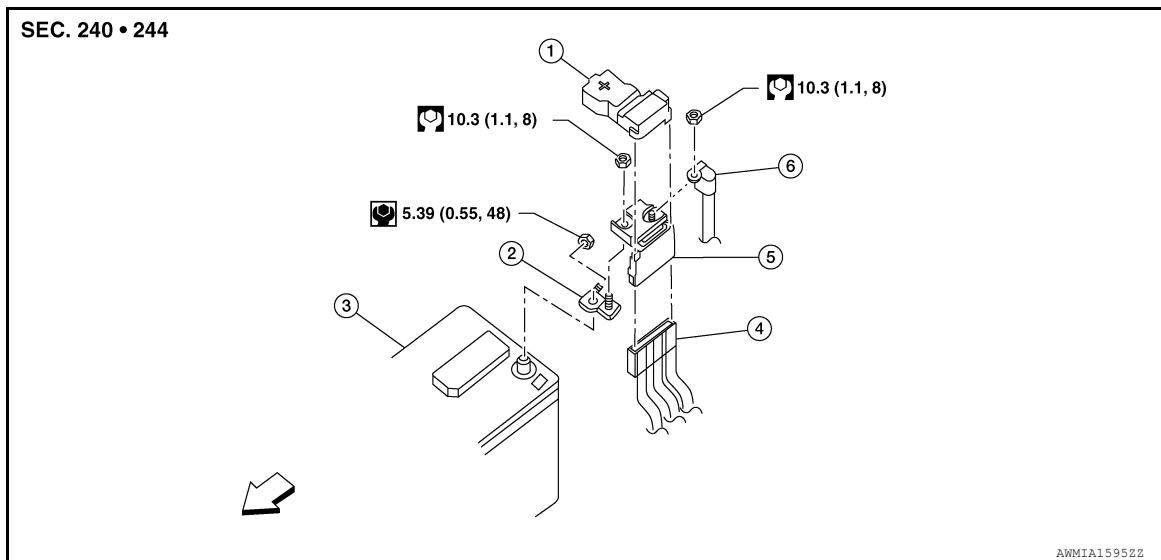
BATTERY TERMINAL WITH FUSIBLE LINK

< REMOVAL AND INSTALLATION >

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:000000011280963



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

Removal and Installation

INFOID:000000011280964

REMOVAL

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

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

To install the battery, carefully read the following instructions:

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

Reset electronic systems as necessary. Refer to [PG-72. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:0000000011280965

Type*	GR35	GR35
Capacity (20HR) minimum V-AH	12-60	12-63
Cold cranking current A @ -18°C (0°F)	550	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