

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000009594986

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

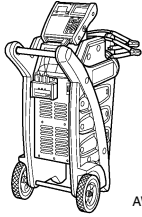
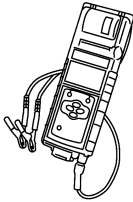
< PREPARATION >

PREPARATION

PREPARATION

Special Service Tools

INFOID:000000009594987

Tool number (Kent-Moore No.) Tool name		Description
— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station	 AWI1A1239ZZ	Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.
— (—) Model EXP-800 NI Battery and electrical diagnostic analyzer	 JSMIA0806ZZ	Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

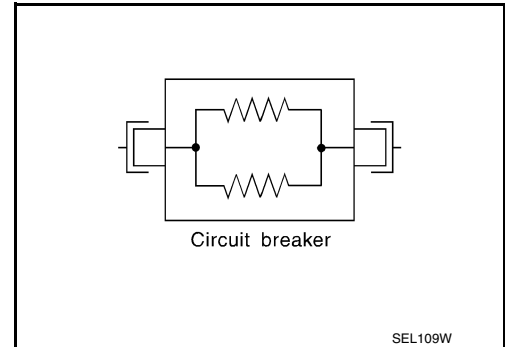
SYSTEM DESCRIPTION

COMPONENT PARTS

Circuit Breaker

INFOID:000000009725280

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



Battery

INFOID:000000009725282

Type		Q-85
5 hour rate minimum	[V – Ah]	12 – 36
Cold cranking current A (For reference value)	A	470

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

Harness Connector

INFOID:000000009707860

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
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G
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I
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K
L
PG
N
O
P

[Example]



PG

- NO

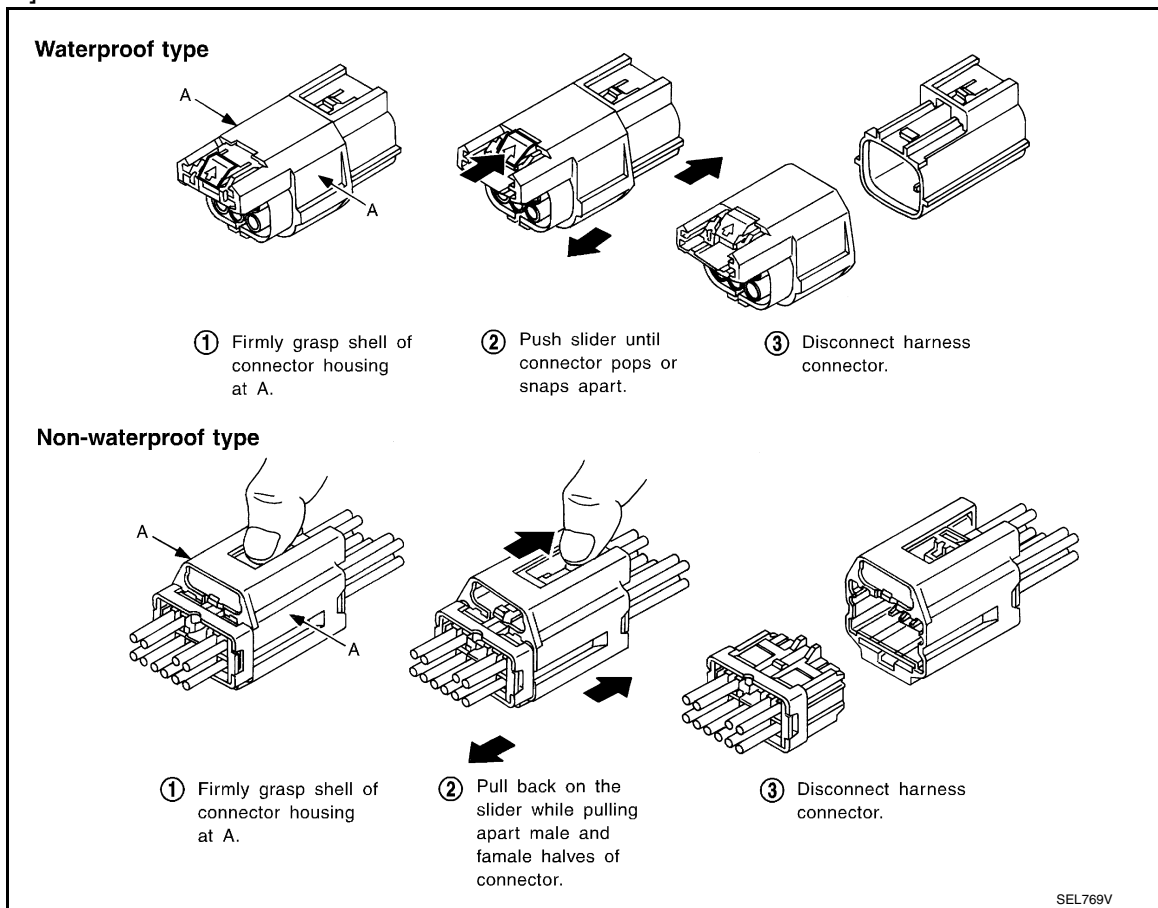
O

- P

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[Example]



HARNESS CONNECTOR (LEVER LOCKING TYPE)

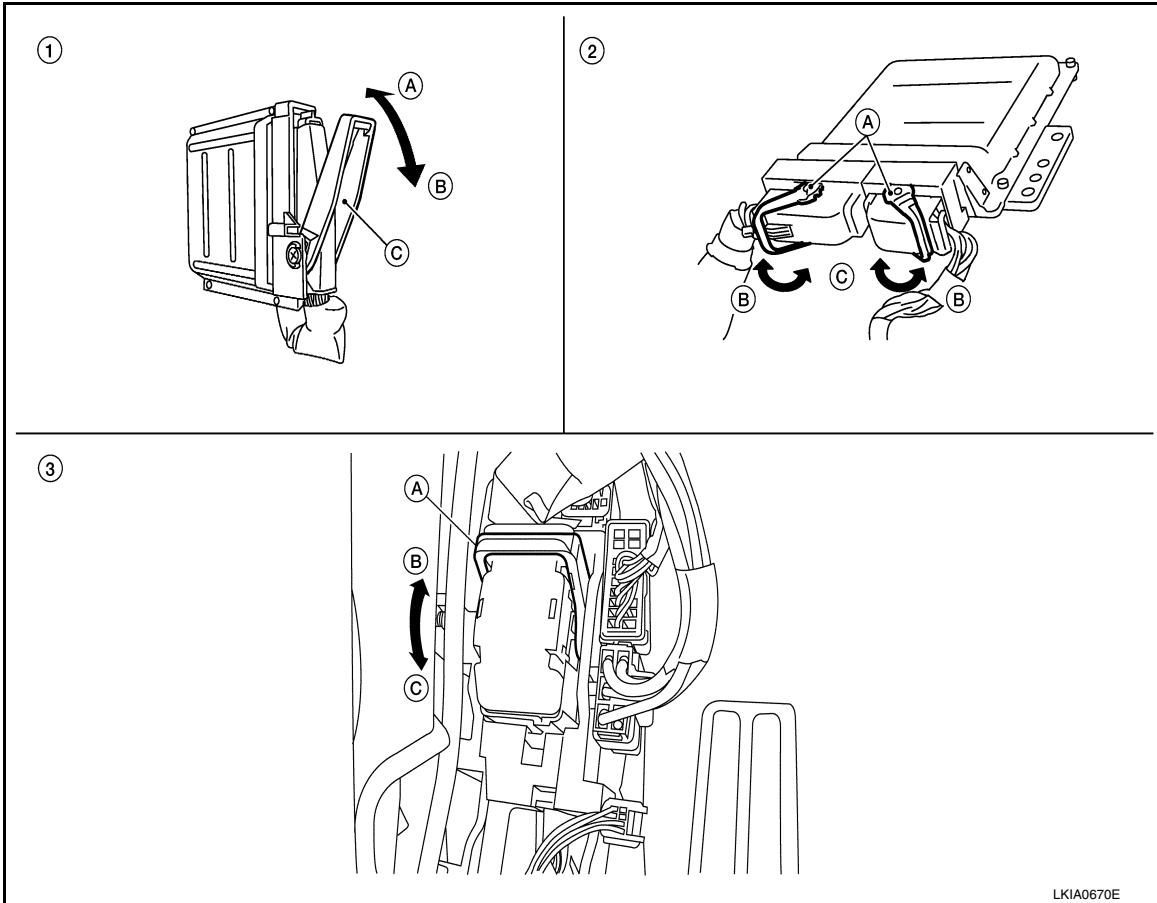
- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked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

CAUTION:

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

- A. Fasten
- B. Loosen
- C. Lever

2. Control unit with dual lever

- A. Lever
- B. Fasten
- C. Loosen

3. SMJ connector

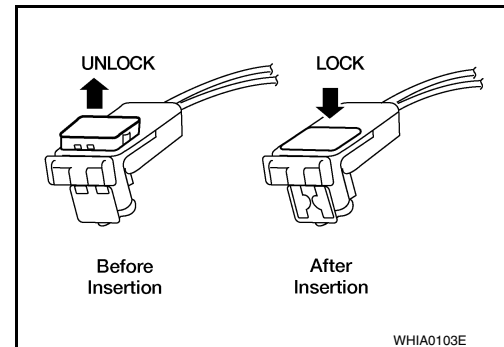
- A. Lever
- B. Fasten
- C. Loosen

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.



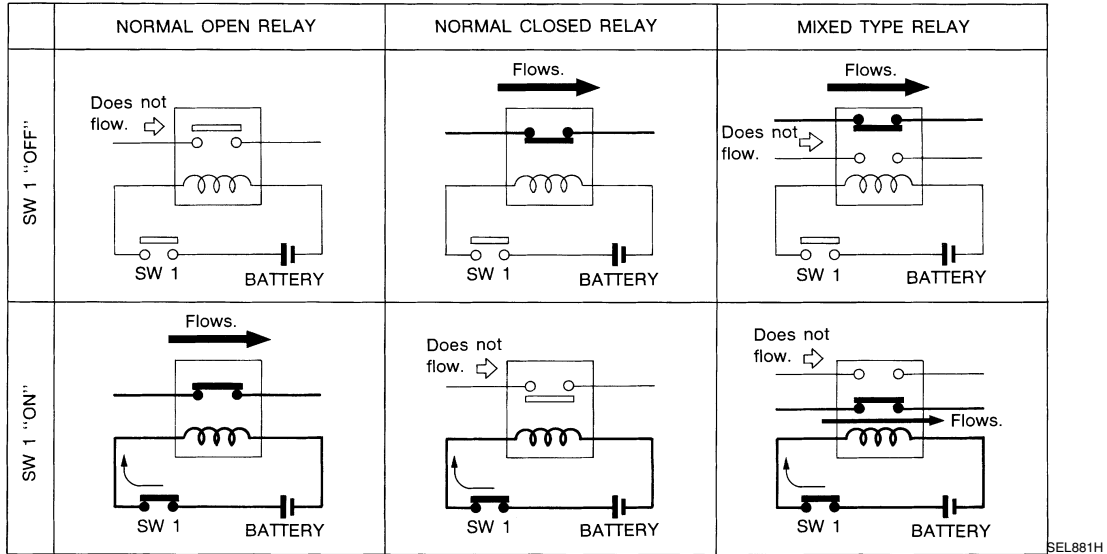
Standardized Relay

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

COMPONENT PARTS

< SYSTEM DESCRIPTION >

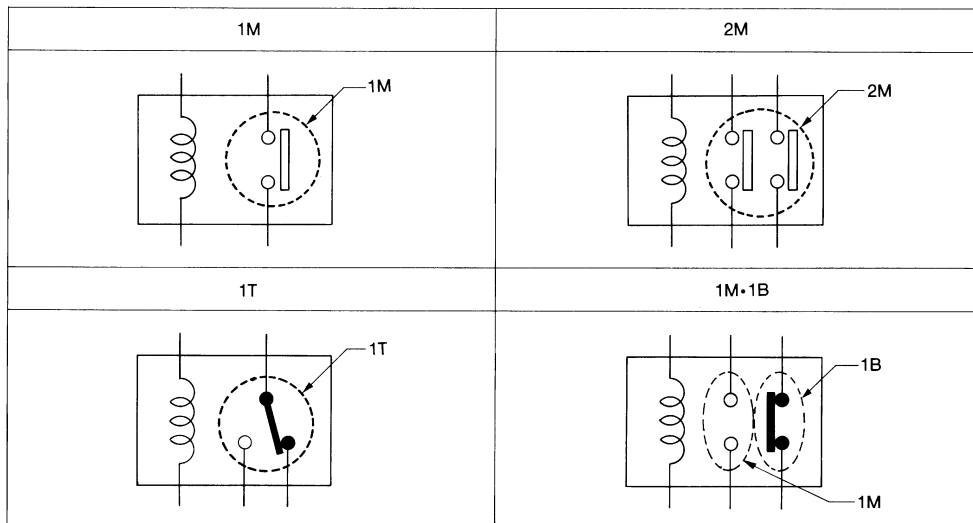
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



SEL881H

TYPE OF STANDARDIZED RELAYS

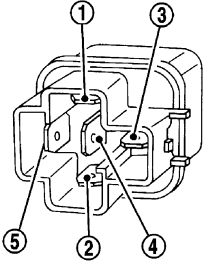
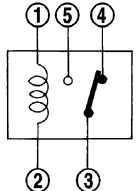
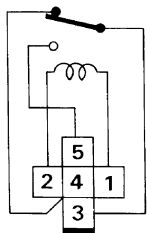
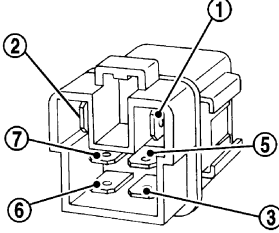
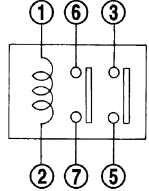
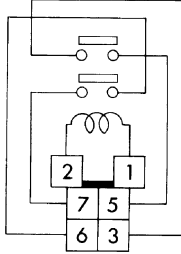
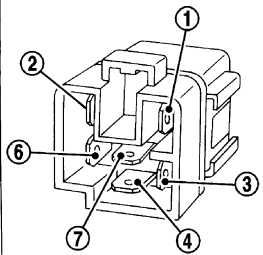
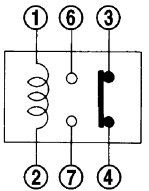
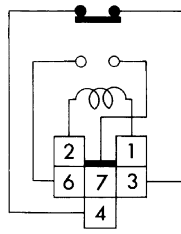
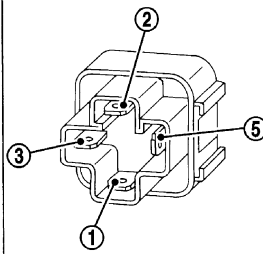
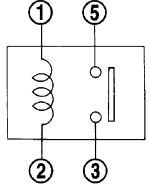
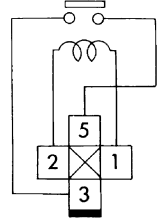
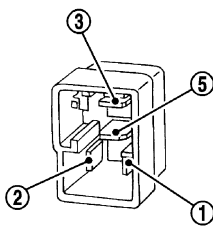
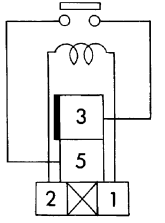
1M 1 Make 2M 2 Make
 1T 1 Transfer 1M·1B 1 Make 1 Break



SEL882H

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

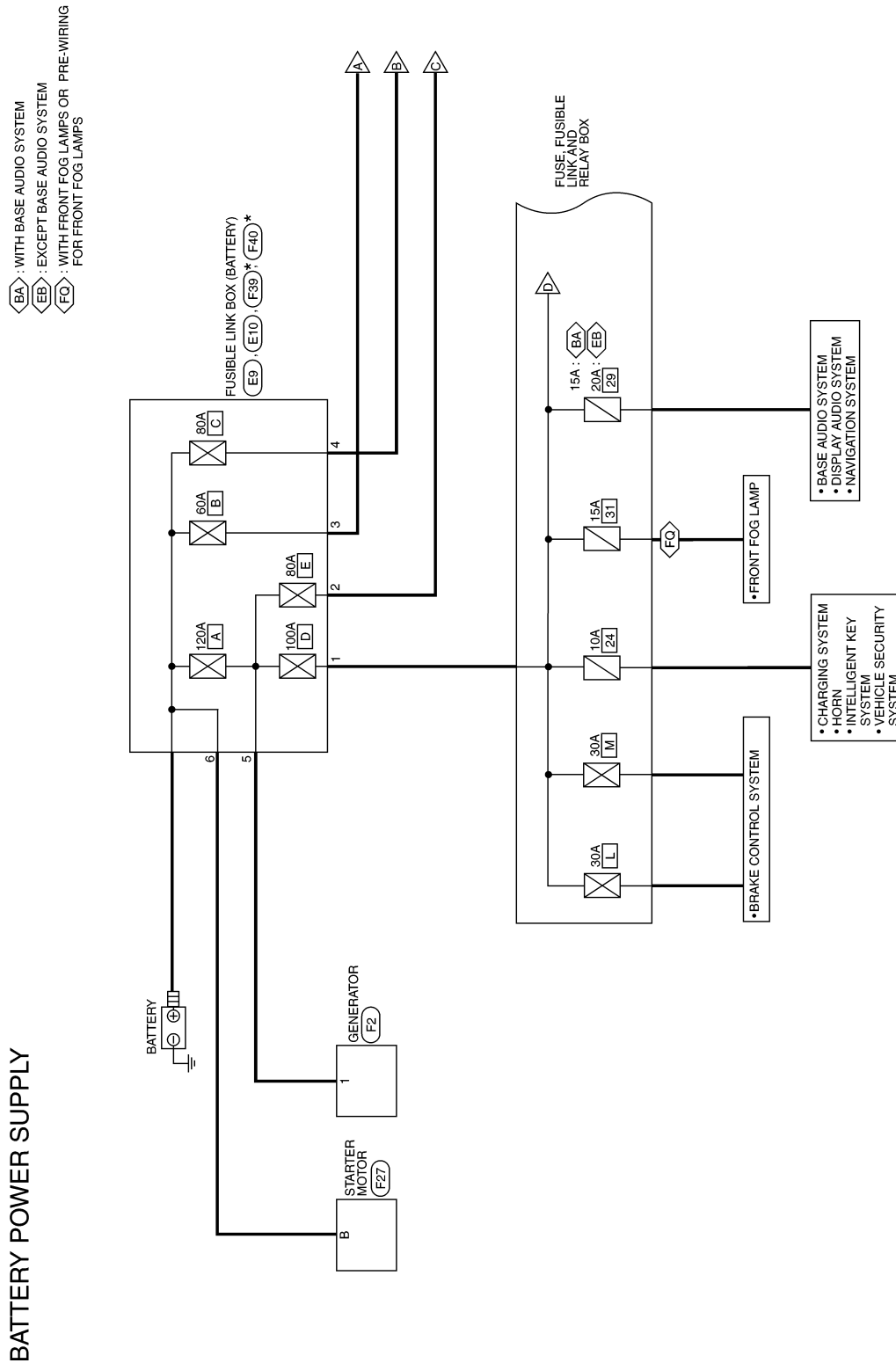
< WIRING DIAGRAM >

WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram —Battery Power Supply —

INFOID:000000009707852

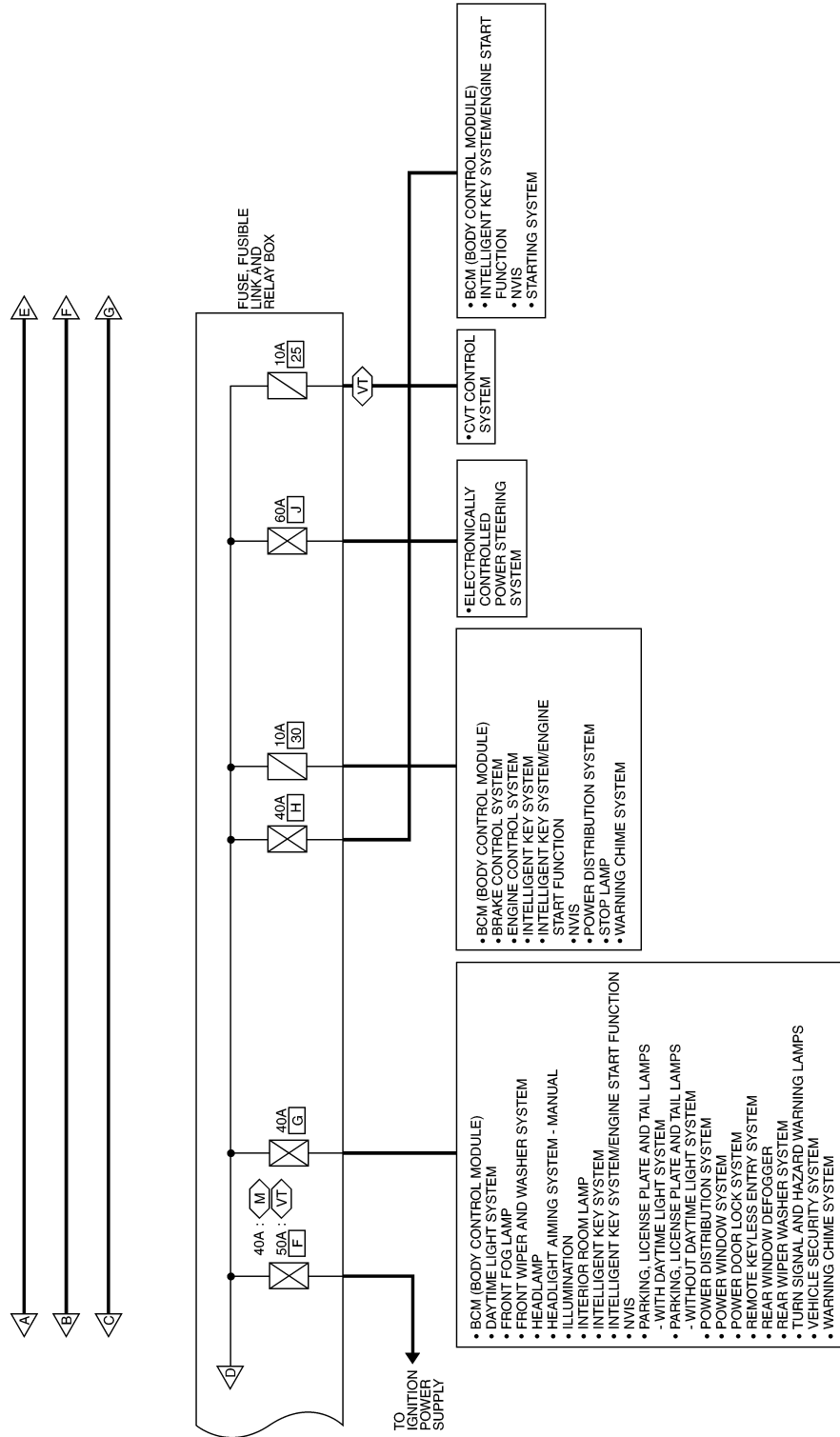


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POWER SUPPLY ROUTING CIRCUIT

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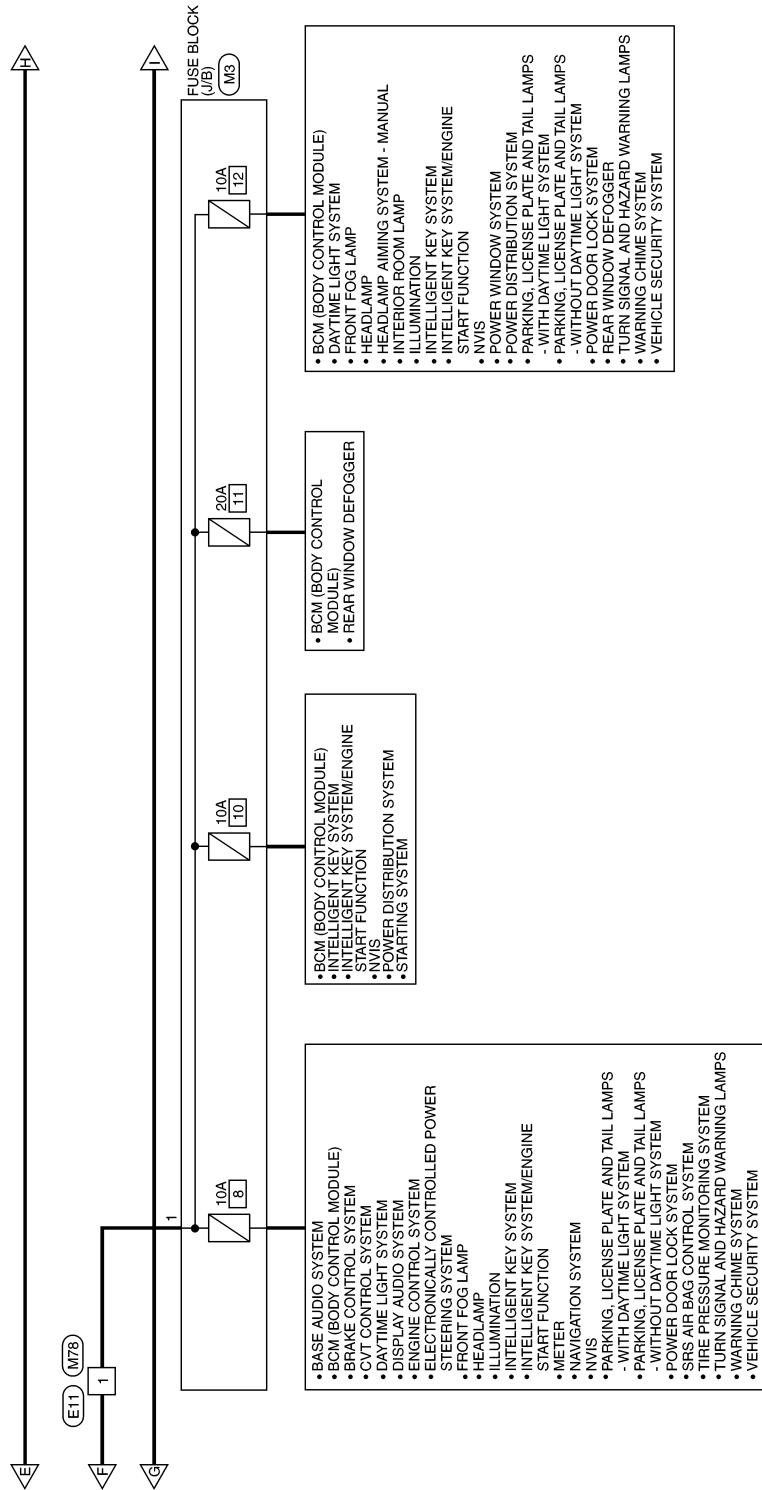
M : WITH M/T
VT : WITH CVT



AAMWA0802GB

POWER SUPPLY ROUTING CIRCUIT

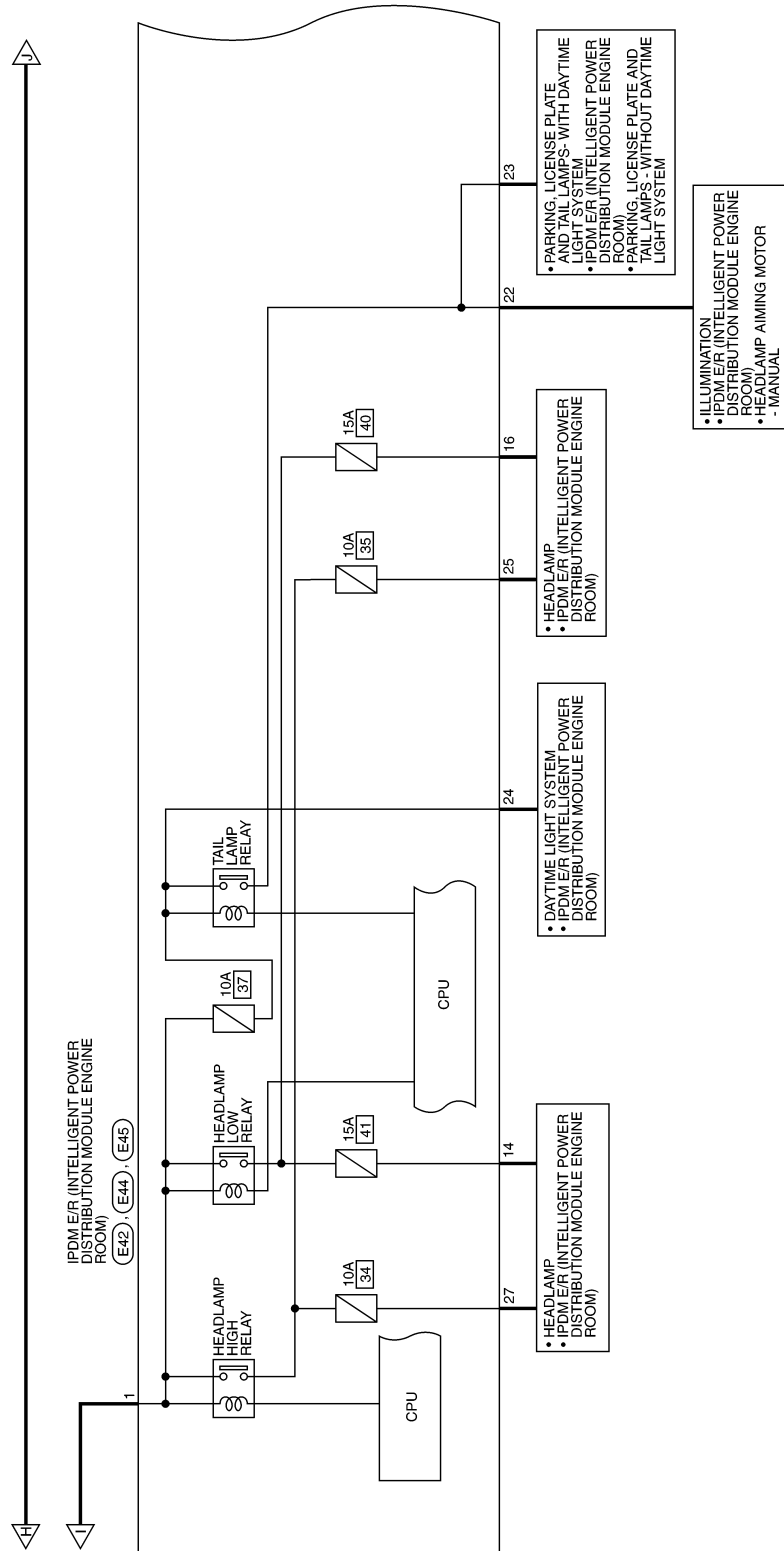
< WIRING DIAGRAM >



AAMWA0803GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



AAMWA0804GB

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< WIRING DIAGRAM >



BATTERY POWER SUPPLY CONNECTORS

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



Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Connector No.	E9
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BROWN



Terminal No.	1
Color of Wire	W
Signal Name	—

Terminal No.	1
Color of Wire	W
Signal Name	—

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

Connector No.	E10
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



Connector No.	E11
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Connector No.	E42
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	3
Color of Wire	Y
Signal Name	—
Terminal No.	4
Color of Wire	G
Signal Name	—

Terminal No.	1
Color of Wire	G
Signal Name	—

Terminal No.	1
Color of Wire	R
Signal Name	F/L USM (+B1)
Terminal No.	2
Color of Wire	Y
Signal Name	F/L MAIN (+B2)

AAMIA1740GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



64	63	62	61	60	59	58	57	56	55	54	53
76	75	74	73	72	71	70	69	68	67	66	65

Terminal No.	Color of Wire	Signal Name
60	B	GND (SIGNAL)
61	P	CAN-L
62	L	CAN-H

Connector No.	E45
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



21	20		19	18	17	
28	27	26	25	24	23	22

Terminal No.	Color of Wire	Signal Name
22	P	TAIL/ILLMI
23	R	CLEARANCE
24	W	DTRL
25	G	HEADLAMP HI LH
27	Y	HEADLAMP HI RH

Connector No.	E44
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



11		10	9	
16	15	14	13	12

Terminal No.	Color of Wire	Signal Name
11	G	ECM VB
14	L	HEADLAMP LO LH
16	P	HEADLAMP LO RH

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



33	32			31	30	29
40	39	38	37	36	35	34

Terminal No.	Color of Wire	Signal Name
29	L/W	ETC
32	G/W	MOTRLY
35	BR	ECM BAT
39	L	ENG SOL

Connector No.	F27
Connector Name	STARTER MOTOR
Connector Color	-



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

Connector No.	F2
Connector Name	GENERATOR
Connector Color	-



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

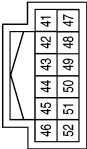
AAMIA1741GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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J
K
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PG
N
O
P

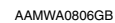
Connector No.	F43
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
50	P	SSOFF

AAMIA1742GB

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY

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



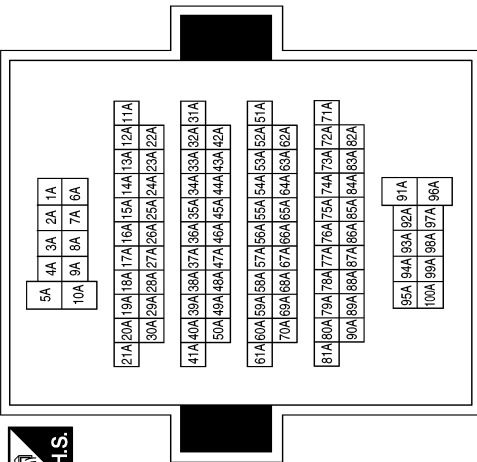
Terminal No.	Color of Wire	Signal Name
1	W	-

Connector No.	M39
Connector Name	ACCESSORY RELAY-2
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	SB	-
2	B	-
3	L	-
5	O	-

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



Terminal No.	Color of Wire	Signal Name
10A	P	-
91A	G	-

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-

AAMIA1743GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	M99
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			

Connector No.	M98
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110

Terminal No.	Color of Wire	Signal Name
70	G	BATTERY (F/L)

Terminal No.	Color of Wire	Signal Name
96	SB	ACC RELAY OUTPUT

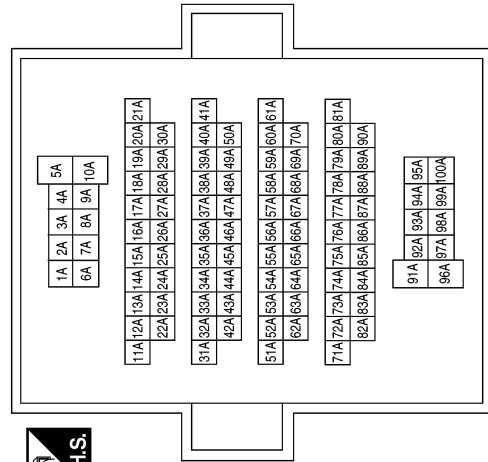
Connector No.	E10
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



4	3
---	---

Terminal No.	Color of Wire	Signal Name
10A	L	-
91A	Y	-

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE

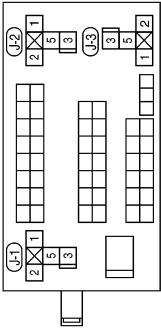


AAMIA1744GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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



Connector No.	E11
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	G	-

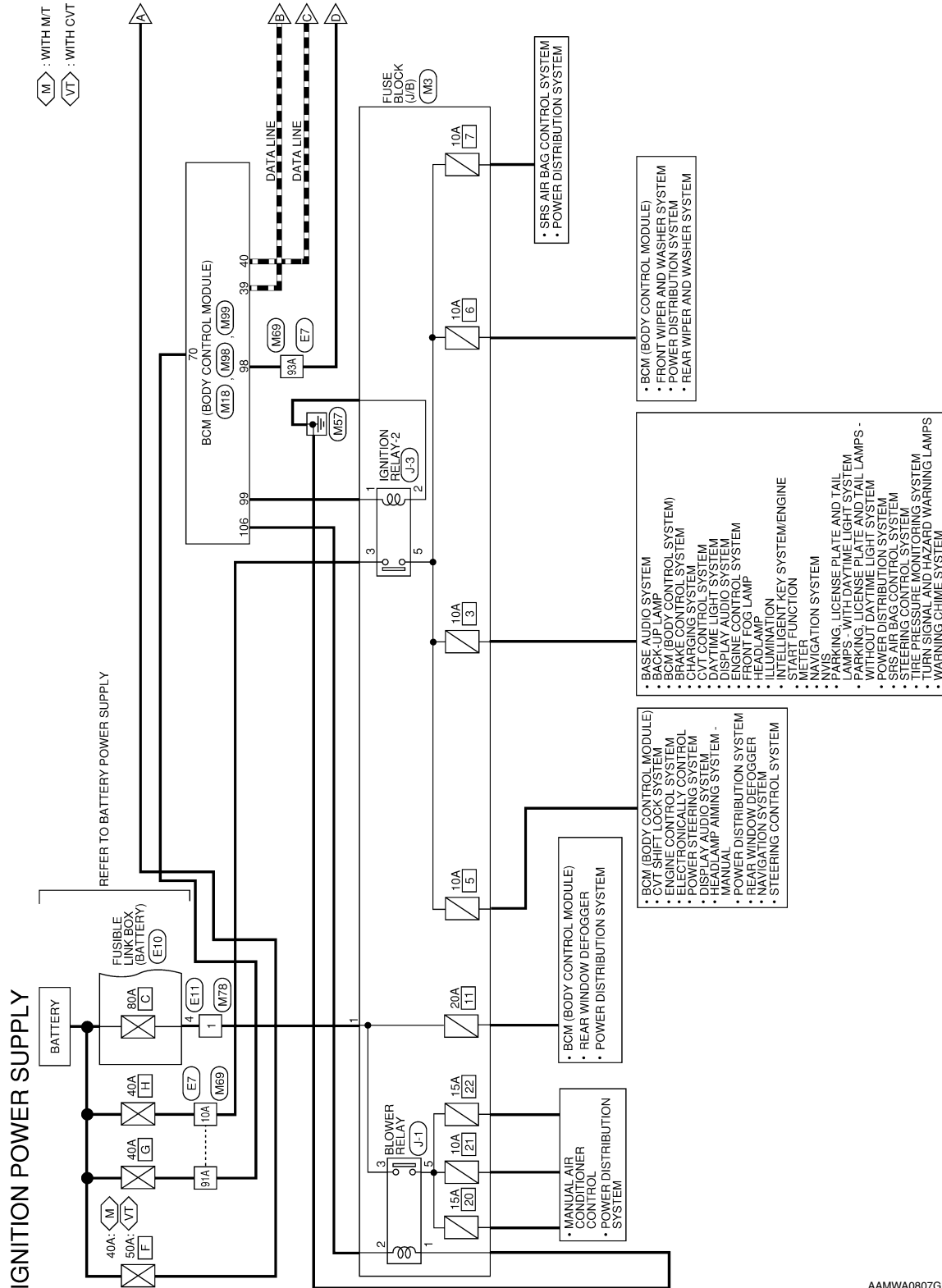
AAMIA1745GB

POWER SUPPLY ROUTING CIRCUIT

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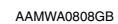
Wiring Diagram —Ignition Power Supply —

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AAMWA0807GB

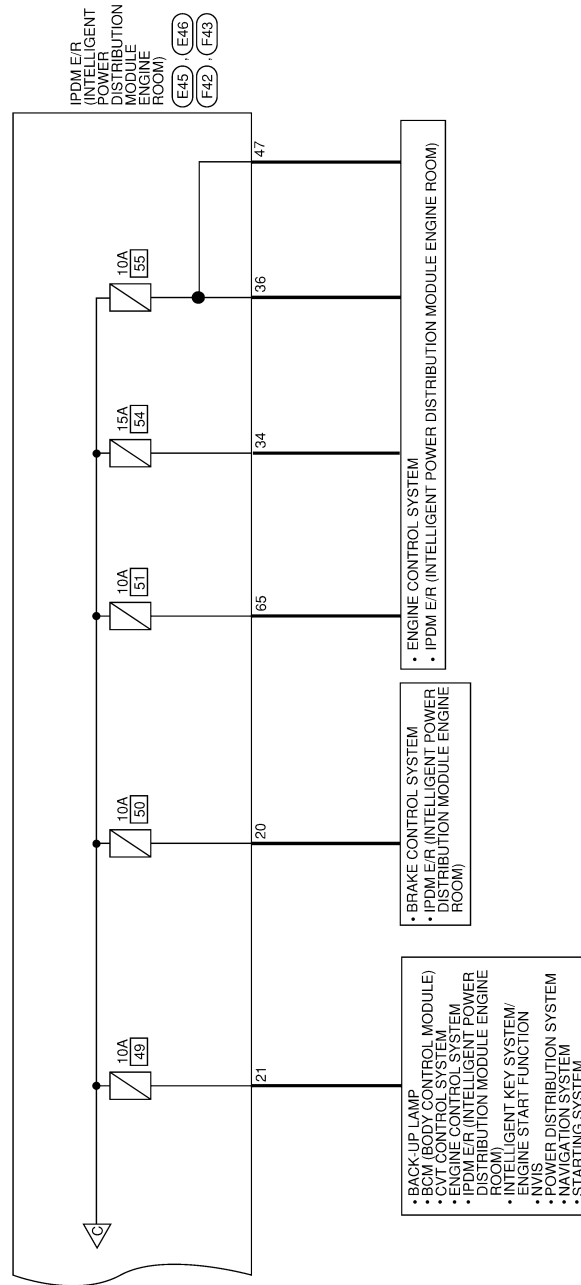
< WIRING DIAGRAM >



A
B
C
D
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K
L
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O
P

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



AAMWA0809GB

POWER SUPPLY ROUTING CIRCUIT

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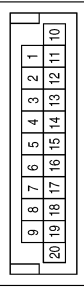
IGNITION POWER SUPPLY CONNECTORS

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



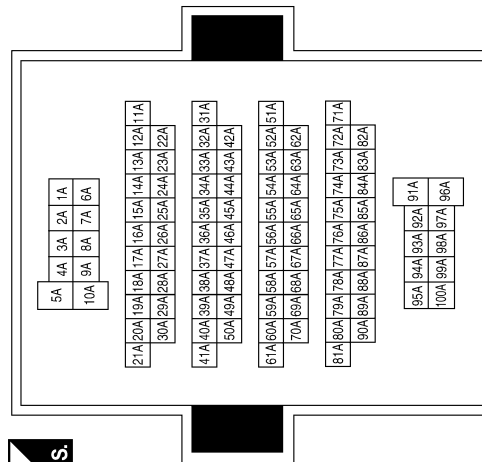
Terminal No.	Color of Wire	Signal Name
1	W	-

Connector No.	M10
Connector Name	JOINT CONNECTOR-M01
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
7	L	-
8	L	-
16	P	-
17	P	-

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



Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	W	-

AAMIA1746GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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



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

Terminal No.	Color of Wire	Signal Name
39	L	CAN-H
40	P	CAN-L

Connector No.	M98
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110

Terminal No.	Color of Wire	Signal Name
98	O	IGN RELAY OUTPUT1 (USM)
99	GR	IGN RELAY OUTPUT2 (ELEC)
106	Y	BLOWER FAN MOTOR RELAY OUTPUT

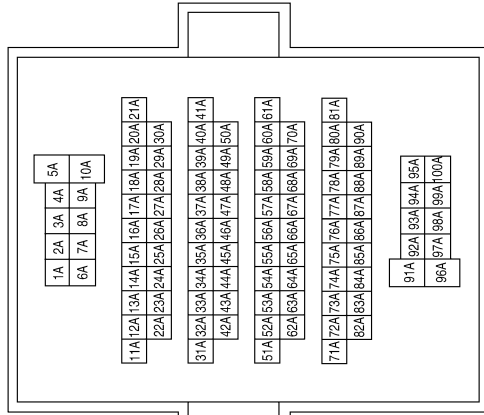
Connector No.	M99
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	WHITE



56	57	58	59	60	61	62	63	64
65	66	67	68	69	70			

Terminal No.	Color of Wire	Signal Name
70	G	BATTERY (F/L)

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Color	WHITE



Terminal No.	Color of Wire	Signal Name
10A	L	-
20A	P	-
21A	L	-
91A	Y	-
93A	L	-

Connector No.	E9
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	BROWN



1	2
---	---

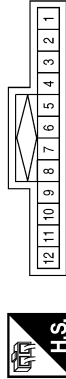
Terminal No.	Color of Wire	Signal Name
2	R	-

AAMIA1747GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	E14
Connector Name	JOINT CONNECTOR-E03
Connector Color	BLUE



Terminal No.	Color of Wire	Signal Name
1	P	-
5	P	-
8	L	-
12	L	-

Connector No.	E11
Connector Name	WIRE TO WIRE
Connector Color	BLACK



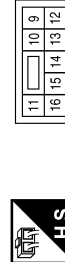
Terminal No.	Color of Wire	Signal Name
1	G	-

Connector No.	E10
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	GRAY



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

Connector No.	E44
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN



Terminal No.	Color of Wire	Signal Name
9	BR	FUEL PUMP

Connector No.	E43
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
5	Y	MOTOR FAN HI
7	P	MOTOR FAN LO
8	G	F/L MOTOR FAN

Connector No.	E42
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK



Terminal No.	Color of Wire	Signal Name
1	R	F/L USM (+B1)
2	Y	F/L MAIN (+B2)

AAMIA1748GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Connector No.	E45
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BROWN

21	20	19	18	17		
28	27	26	25	24	23	22



Terminal No.	Color of Wire	Signal Name
17	LG	FR WIPER LO
18	GR	FR WIPER HI
19	B	GND (POWER)
20	BR	ABS ECU
21	R	AT ECU
28	V	AC-COMP

Connector No.	E46
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

64	63	62	61	60	59	58	57	56	55	54	53
76	75	74	73	72	71	70	69	68	67	66	65



Terminal No.	Color of Wire	Signal Name
60	B	GND (SIGNAL)
61	P	CAN-L
62	L	CAN-H
65	BR	RELAY IG

Connector No.	E47
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

84	83	82	81	80	79	78	77
92	91	90	89	88	87	86	85



Terminal No.	Color of Wire	Signal Name
90	L	IGN SIGNAL

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

 H.S.	33	32			31	30	29
	40	39	38	37	36	35	34



Terminal No.	Color of Wire	Signal Name
34	Y	IGN COIL
36	SB	INJECTOR

Connector No.	F43
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	WHITE

46	45	44	43	42	41
52	51	50	49	48	47



Terminal No.	Color of Wire	Signal Name
43	GR	FPR
47	R/W	ECM IGN SW

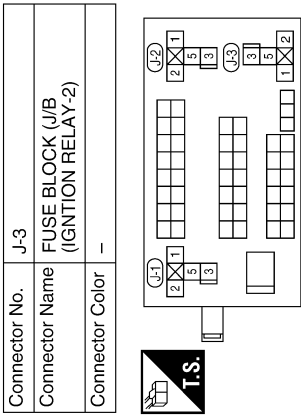
Connector No.	J-1
Connector Name	FUSE BLOCK J/B (BLOWER MOTOR)
Connector Color	—

2	1	5	3	1	2
5	3	1	5	3	1



POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



PG

GROUND

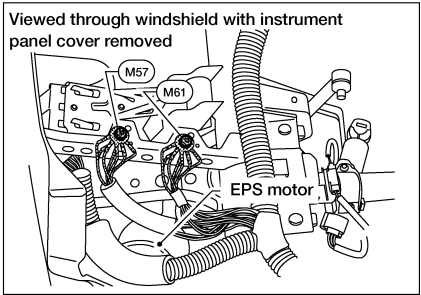
< WIRING DIAGRAM >

GROUND

Ground Distribution

INFOID:000000009707857

MAIN HARNESS



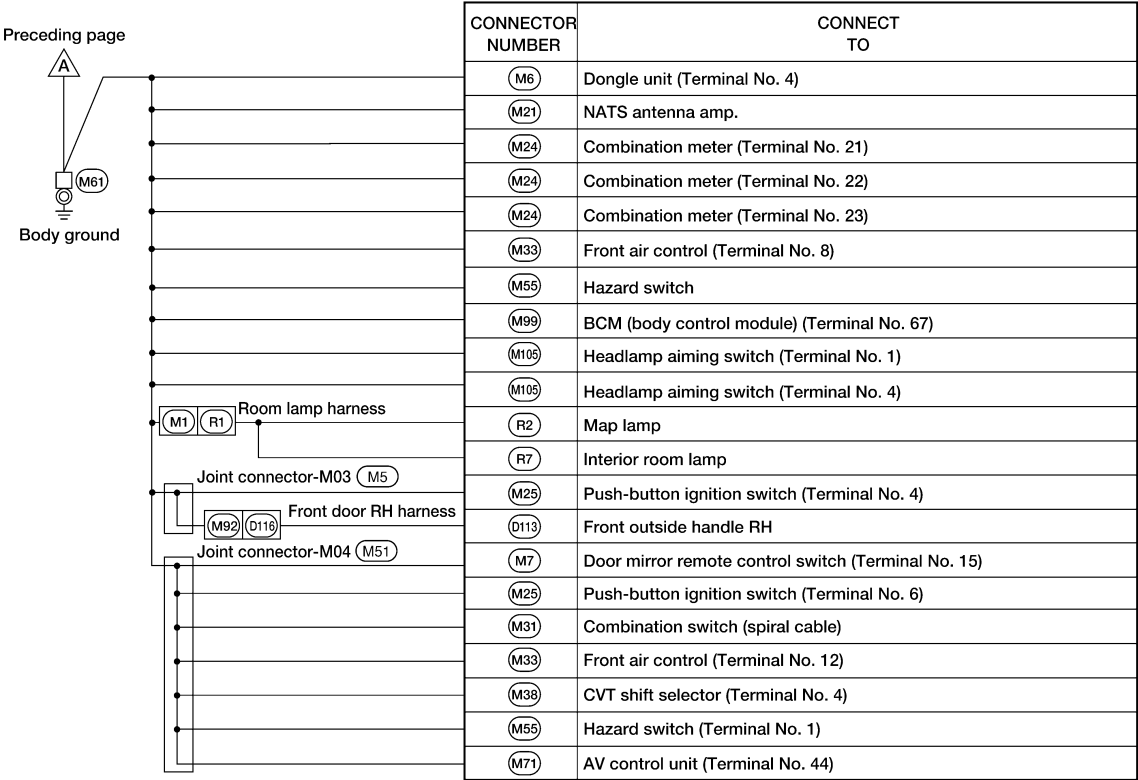
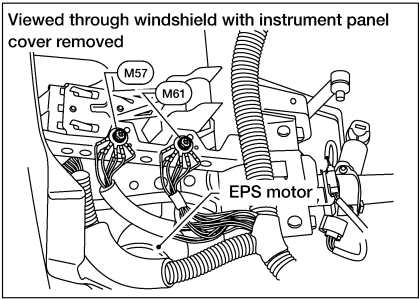
CONNECTOR NUMBER	CONNECT TO
(M22)	Data link connector (Terminal No. 4)
(M22)	Data link connector (Terminal No. 5)
(M23)	AUX in jack shield
(M35)	Air bag diagnosis sensor unit (Terminal No. 2)
(M38)	CVT shift selector (Terminal No. 2)
(M38)	CVT shift selector (Terminal No. 6)
(M40)	Audio unit (Terminal No. 44) (with display audio system)
(M40)	Audio unit (Terminal No. 46) (with display audio system)
(M40)	Audio unit (Terminal No. 48) (with display audio system)
(M45)	Audio unit (Terminal No. 20) (with display audio system)
(M70)	AV control unit (Terminal No. 20)
(M101)	Audio unit (Terminal No. 21) (with base audio system)
(M101)	Audio unit (Terminal No. 23) (with base audio system)
(J-1)	Blower relay
(J-2)	Accessory relay-1
(J-3)	Ignition relay-2

Body ground

Next page

AAMIA1751GB

< WIRING DIAGRAM >



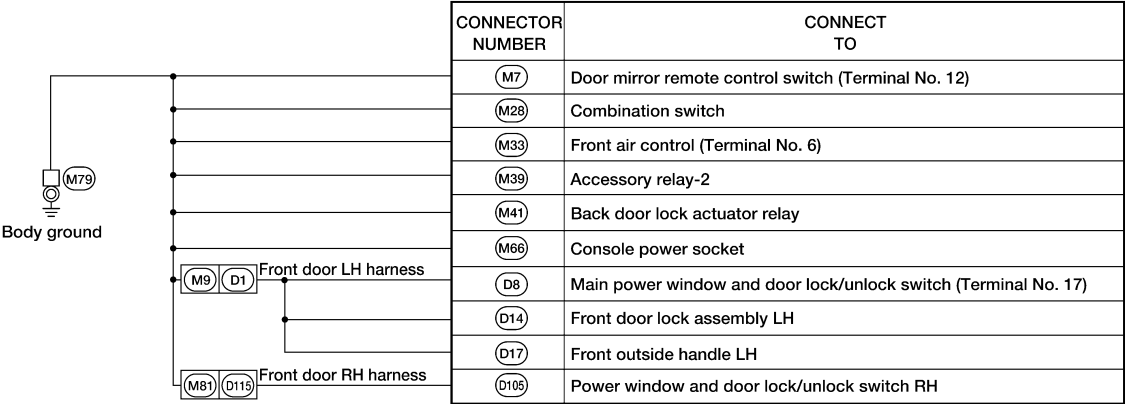
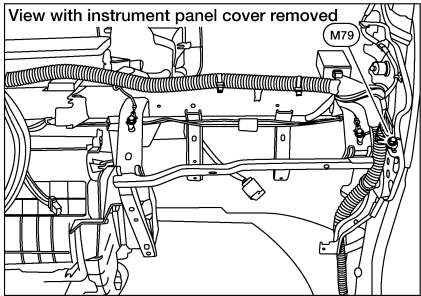
AAMIA1752GB

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GROUND

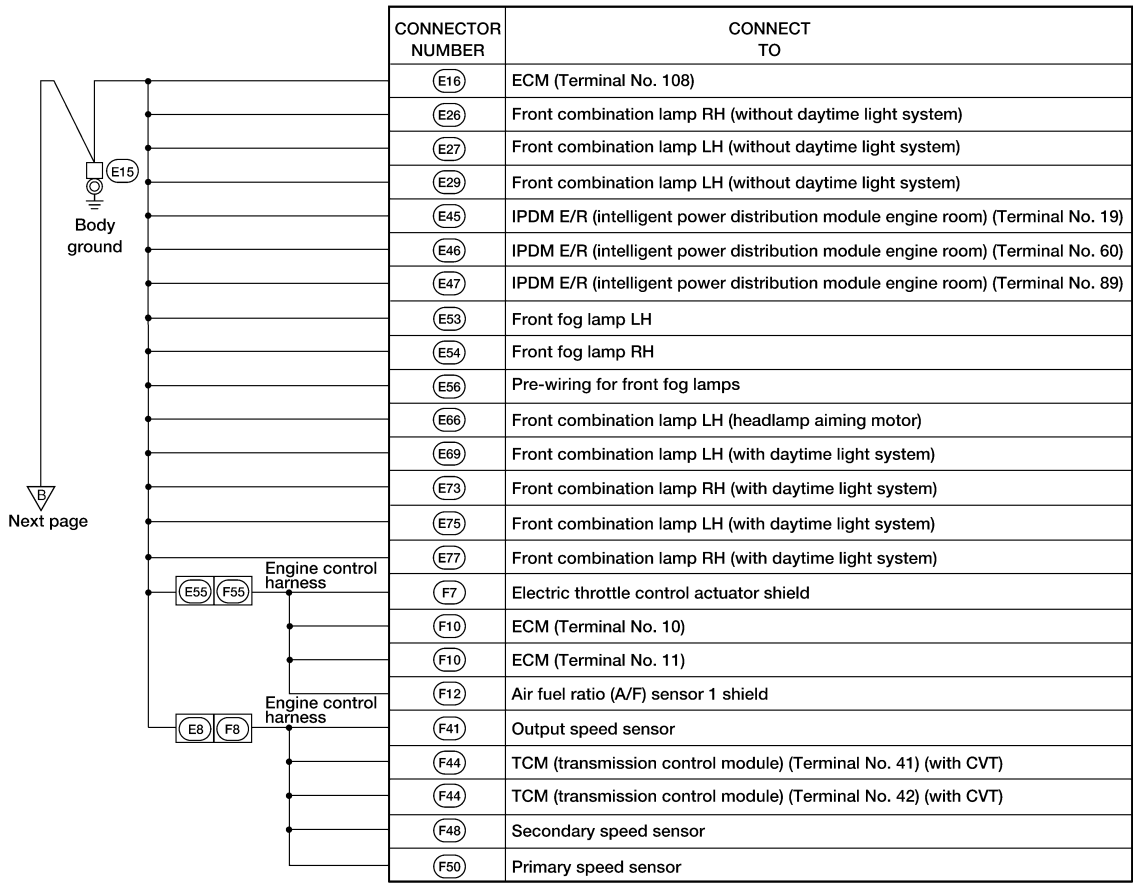
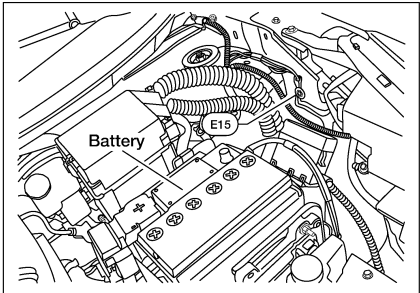
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AAMIA1753GB

GROUND

< WIRING DIAGRAM >
ENGINE ROOM HARNESS



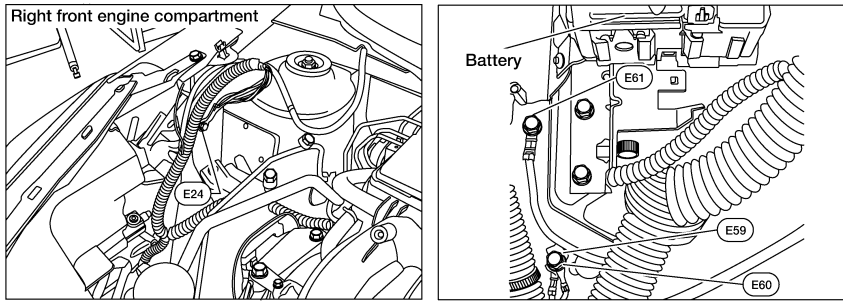
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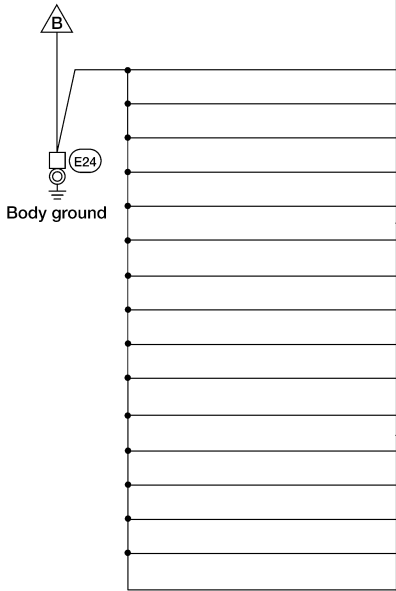
PG

GROUND

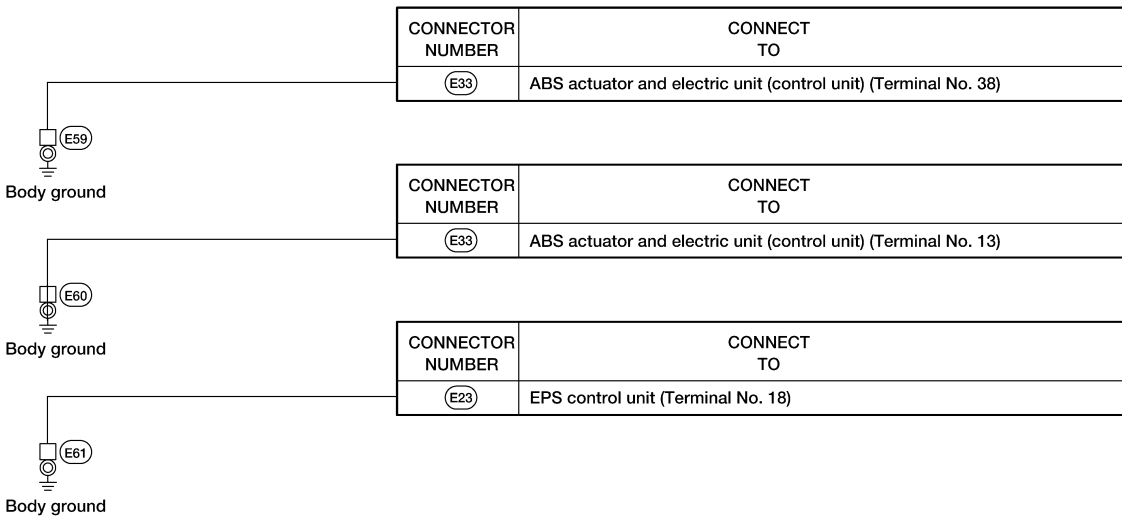
< WIRING DIAGRAM >



Preceding page



CONNECTOR NUMBER	CONNECT TO
(E1)	Front wiper motor
(E5)	Cooling fan motor (with CVT)
(E6)	Hood switch
(E20)	Horn
(E25)	Front combination lamp LH (without daytime light system)
(E28)	Front combination lamp RH (without daytime light system)
(E30)	Front combination lamp RH (without daytime light system)
(E31)	Cooling fan motor (with M/T)
(E40)	Brake fluid level switch
(E48)	Clutch pedal position switch
(E62)	Cooling fan relay
(E65)	Front combination lamp RH (headlamp aiming motor)
(E68)	Front combination lamp RH (with daytime light system)
(E74)	Front combination lamp LH (with daytime light system)
(E76)	Front combination lamp RH (with daytime light system)
(E78)	Front combination lamp LH (with daytime light system)



CONNECTOR NUMBER	CONNECT TO
(E33)	ABS actuator and electric unit (control unit) (Terminal No. 38)

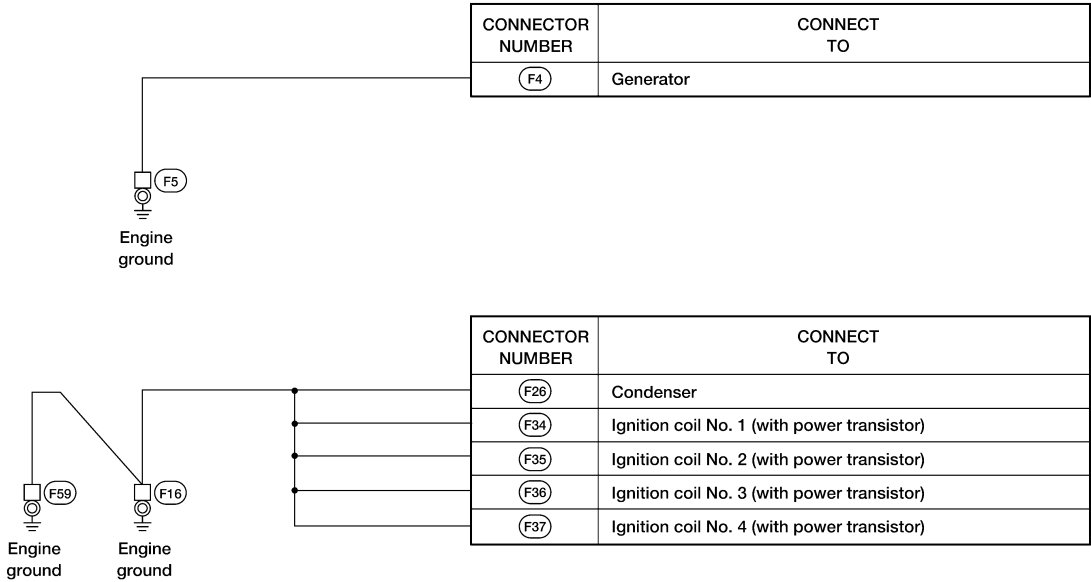
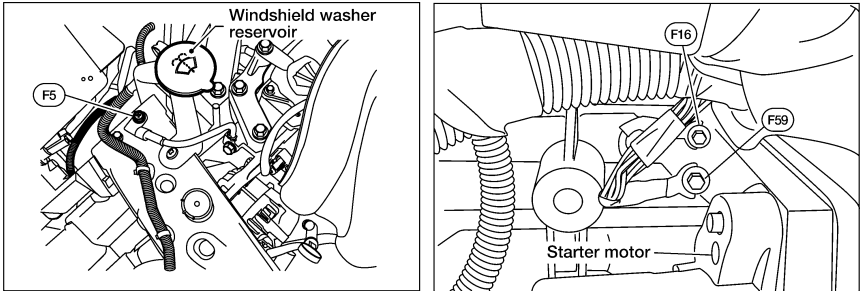
CONNECTOR NUMBER	CONNECT TO
(E33)	ABS actuator and electric unit (control unit) (Terminal No. 13)

CONNECTOR NUMBER	CONNECT TO
(E23)	EPS control unit (Terminal No. 18)

AAMIA1755GB

GROUND

< WIRING DIAGRAM >
ENGINE CONTROL HARNESS



AAMIA1756GB

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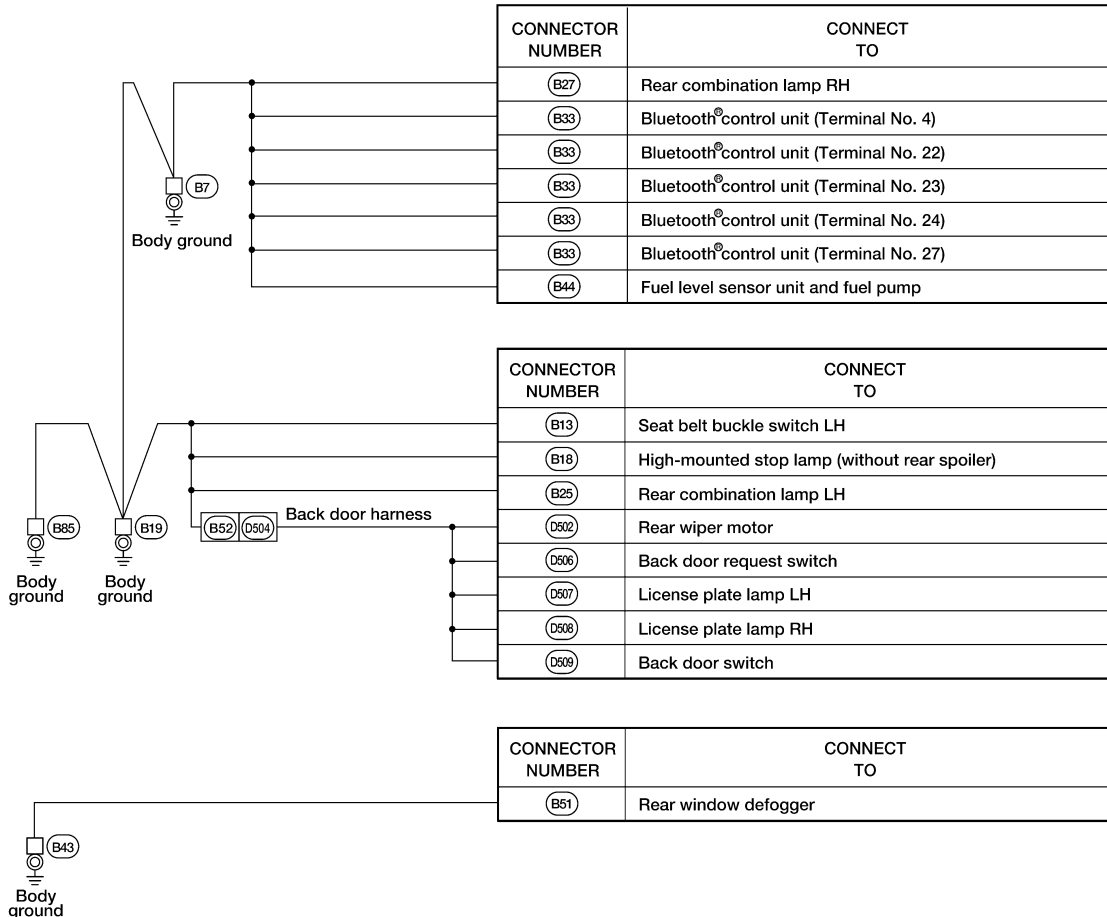
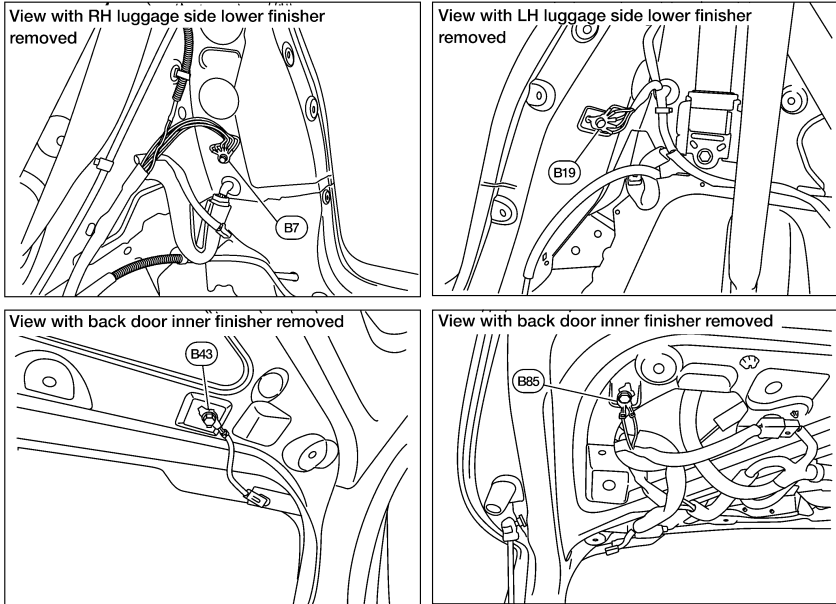
MG

MH

GROUND

< WIRING DIAGRAM >

BODY HARNESS



AAMIA1757GB

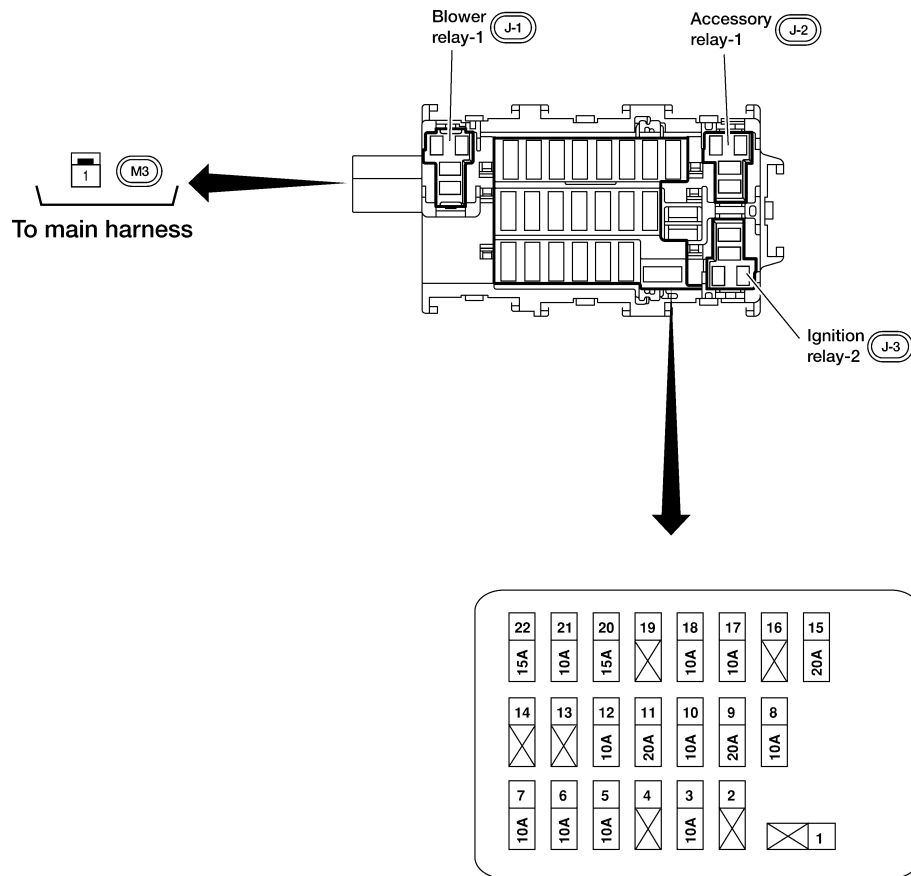
FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:000000009707862



AAMIA1762GB

FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

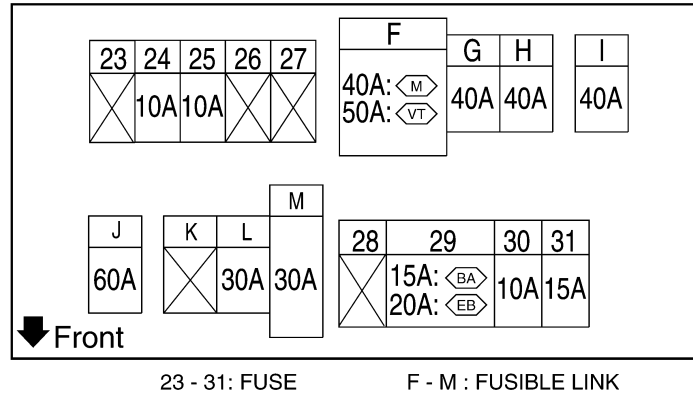
FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

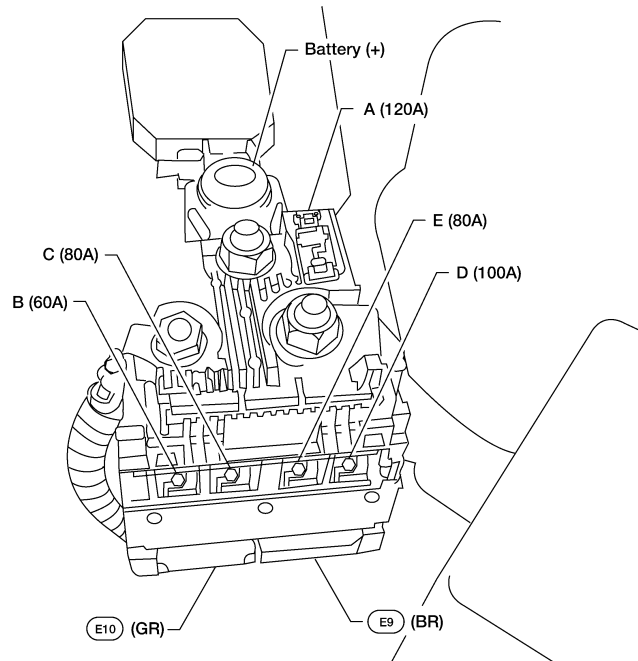
INFOID:000000009707863

FUSE, FUSIBLE LINK AND RELAY BOX

- BA : WITH BASE AUDIO SYSTEM
- EB : EXCEPT BASE AUDIO SYSTEM
- M : WITH M/T
- VT : WITH CVT



FUSIBLE LINK BOX (BATTERY)



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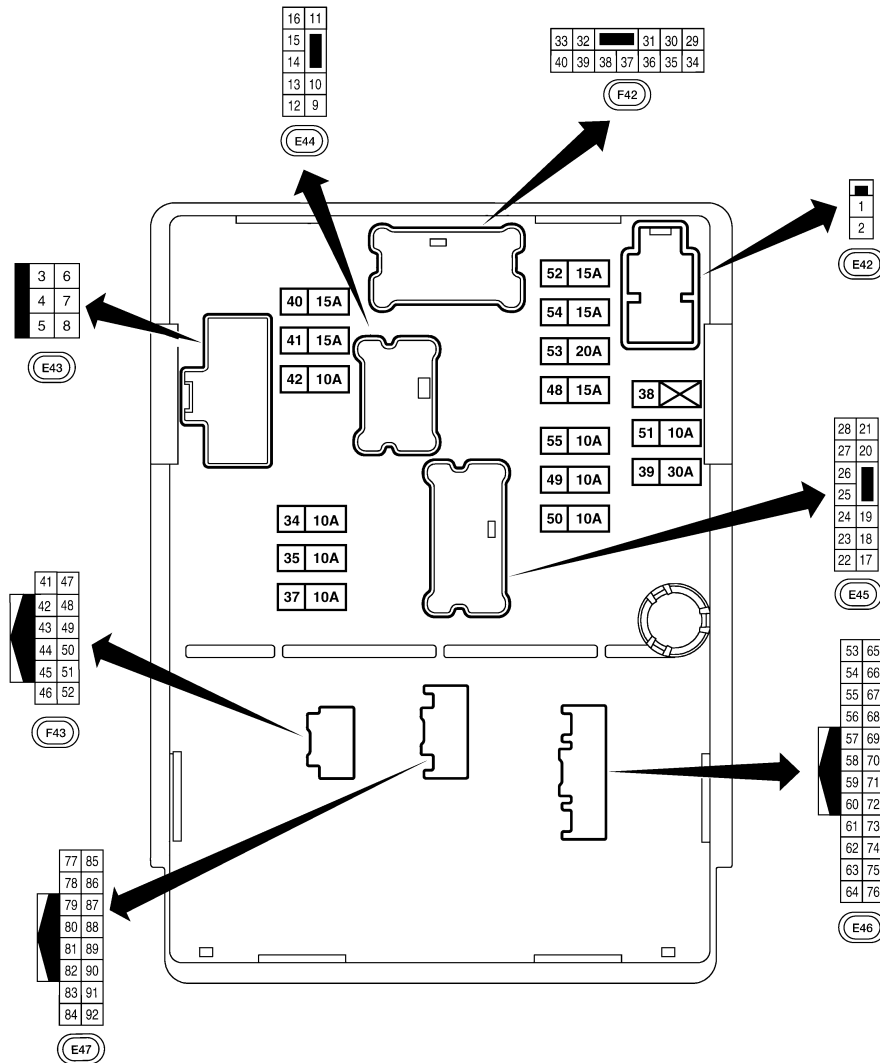
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

IPDM E/R Terminal Arrangement

INFOID:000000009707864



HARNESS

< WIRING DIAGRAM >

HARNESS

Harness Layout

INFOID:000000009707858

HOW TO READ HARNESS LAYOUT

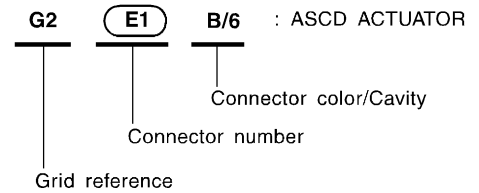
The following Harness Layouts use a map style grid to help locate connectors on the drawings:

- Main Harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Engine Control Harness
- Body Harness
- Room Lamp Harness

To use the grid reference

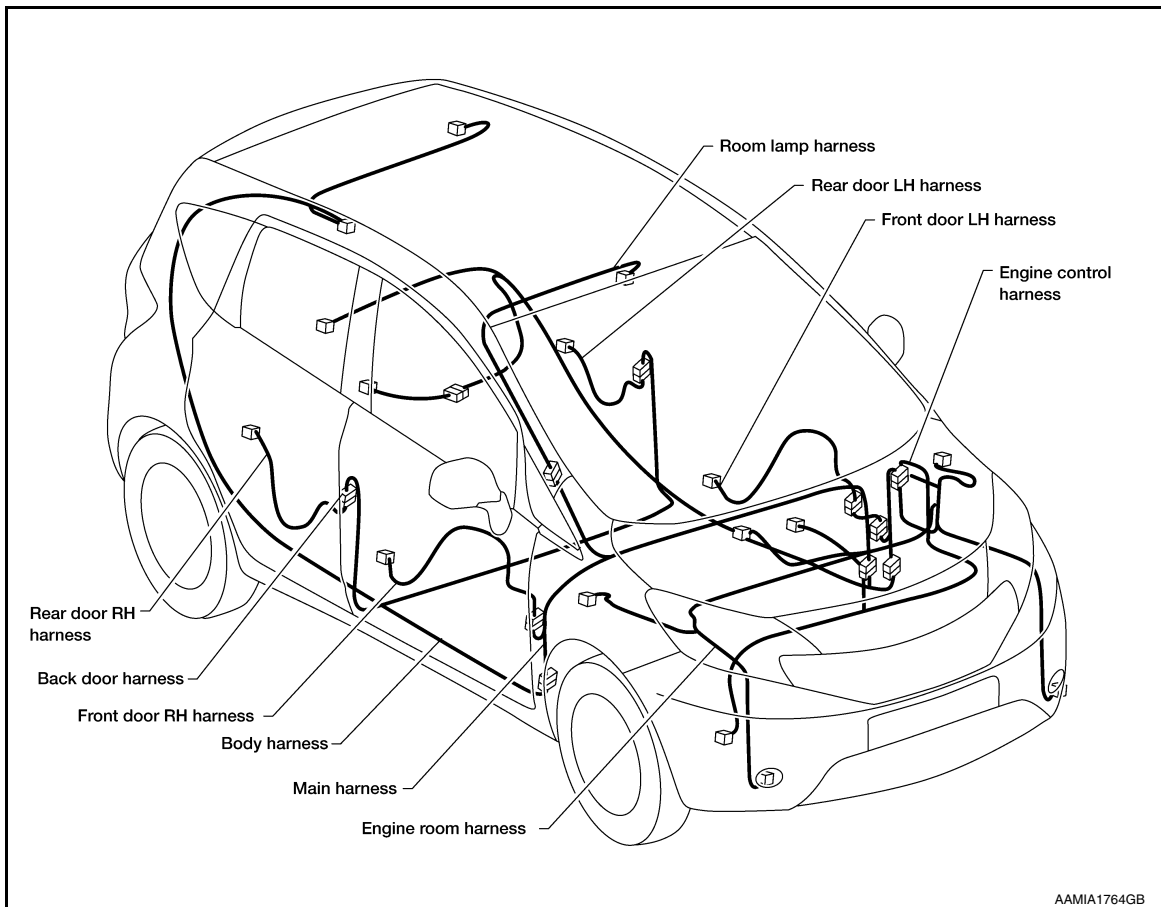
1. Find the desired connector number on the connector list.
2. Find the grid reference.
3. On the drawing, find the crossing of the grid reference letter column and number row.
4. Find the connector number in the crossing zone.
5. Follow the line (if used) to the connector.

Example:



SEL252V

OUTLINE

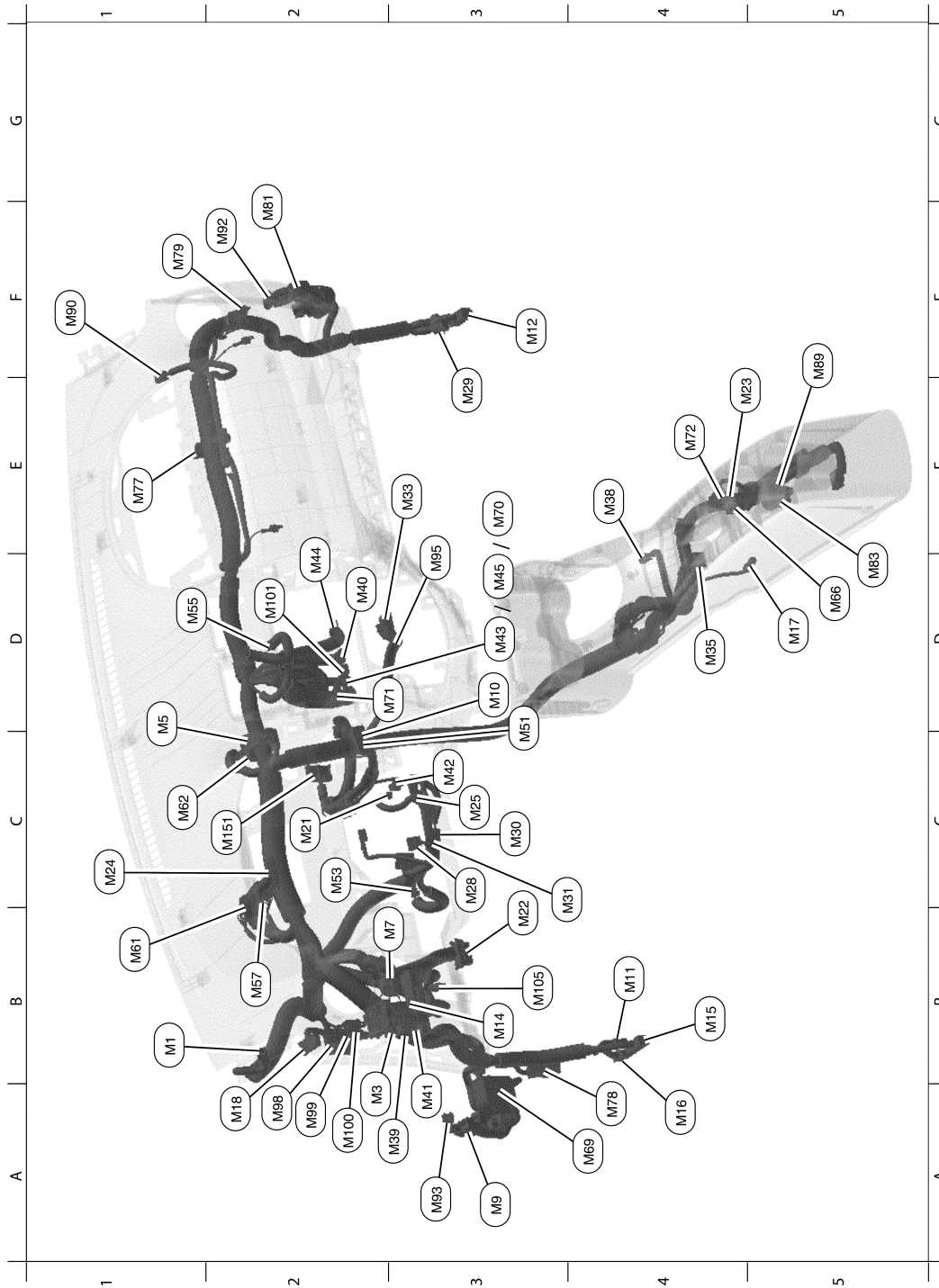


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HARNESS

< WIRING DIAGRAM >

MAIN HARNESS



AAMIA0162ZZ

B1	M1	W/8	: To R1	D2	M44	G/5	: Audio unit (With display audio system)
A2	M3	W/1	: Fuse block (J/B)	D3	M45	W/20	: Audio unit (With display audio system)
D1	M5	BR/20	: Joint connector-M03	D3	M51	GR/20	: Joint connector-M04
B3	M7	W/16	: Door mirror remote control switch	C2	M53	B/8	: EPS control unit
A3	M9	W/12	: To D1	D1	M55	W/4	: Hazard switch

HARNESS

< WIRING DIAGRAM >

D3	M10	L/20	: Joint connector—M01	B2	M57	—	: Body ground
B4	M11	W/2	: To B28	B1	M61	—	: Body ground
F3	M12	W/16	: To B29	C1	M62	W/2	: Front blower motor
B3	M14	L/4	: Rear window defogger relay	D5	M66	B/2	: Console power socket
B4	M15	W/16	: To B23	A4	M69	SMJ	: To E7
A4	M16	W/24	: To B24	E3	M70	W/20	: AV control unit
D5	M17	B/1	: Parking brake switch	D2	M71	W/24	: AV control unit
A2	M18	B/40	: BCM (Body control module)	E4	M72	L/5	: USB interface
C2	M21	W/4	: NATS antenna amp.	E1	M77	Y/2	: Front passenger air bag module
B3	M22	W/16	: Data link connector	A4	M78	B/2	: T0 E11
E4	M23	W/4	: AUX in jack	F1	M79	—	: Body ground
C1	M24	W/40	: Combination meter	F2	M81	W/12	: To D115
C3	M25	W/8	: Push—button ignition switch	D5	M83	B/3	: G sensor
C3	M28	W/16	: Combination switch	F5	M89	L/2	: Inside key antenna (Console)
E3	M29	W/24	: To B1	F1	M90	B/4	: Remote keyless entry receiver
C3	M30	GR/8	: Combination switch (Spiral cable)	F2	M92	W/12	: To D116
C4	M31	Y/6	: Combination switch (Spiral cable)	A3	M93	W/24	: To D16
E3	M33	B/15	: Front air control	D3	M95	L/2	: Inside key antenna (Instrument center)
D4	M35	Y/28	: Air bag diagnosis sensor unit	A2	M98	W/40	: BCM (Body control module)
E4	M38	W/8	: CVT shift selector	A2	M99	W/15	: BCM (Body control module)
A3	M39	L/4	: Accessory relay—2	A2	M100	B/15	: BCM (Body control module)
D2	M40	W/32	: Audio unit (With display audio system)	D2	M101	W/16	: Audio unit (With base audio system)
A3	M41	B/5	: Back door lock actuator relay	B3	M105	W/4	: Headlamp aiming switch
C3	M42	BR/4	: Thermo control amp.	C2	M151	BR/4	: Front blower motor resistor
D3	M43	W/20	: Audio unit (With base audio system)				

ENGINE ROOM HARNESS



PG

2014 Note

HARNESS

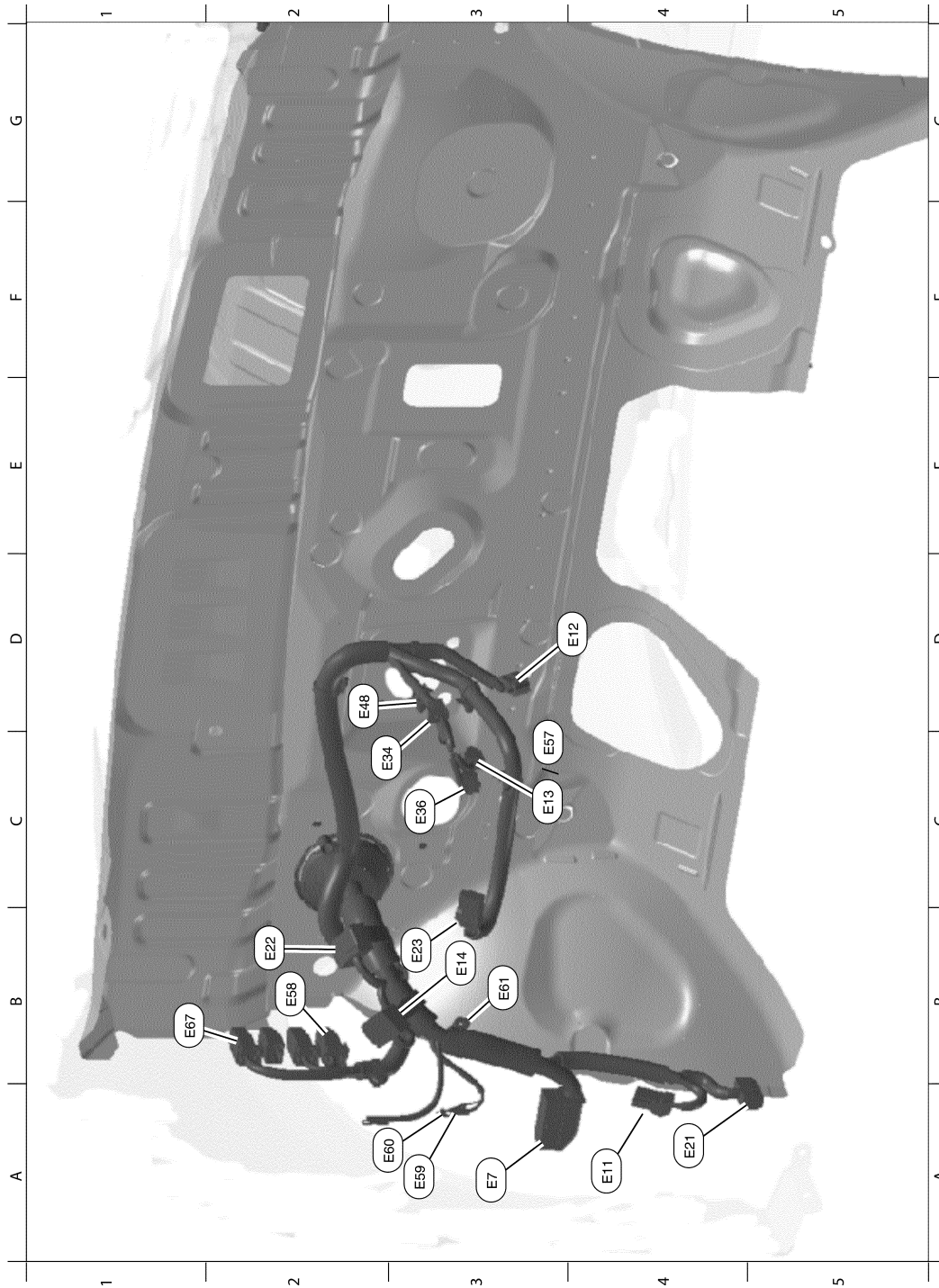
< WIRING DIAGRAM >

E4	E5	B/2	: Cooling fan motor	F2	E44	BR/8	: IPDM E/R (Intelligent power distribution module engine room)
C3	E6	B/2	: Hood switch	E1	E45	BR/12	: IPDM E/R (Intelligent power distribution module engine room)
E2	E8	W/24	: To F8	F2	E46	W/24	: IPDM E/R (Intelligent power distribution module engine room)
E3	E9	BR/2	: Fusible link box (Battery)	F2	E47	W/16	: IPDM E/R (Intelligent power distribution module engine room)
E3	E10	GR/2	: Fusible link box (Battery)	F3	E51	B/2	: Front wheel sensor LH
G2	E15	—	: Body ground	C4	E52	B/2	: Front wheel sensor RH
F3	E16	B/32	: ECM	G4	E53	B/2	: Front fog lamp LH
F4	E17	B/3	: Refrigerant pressure sensor	B5	E54	B/2	: Front fog lamp RH
C4	E18	BR/1	: Horn	E2	E55	GR/12	: To F55
E2	E19	W/6	: To F33	F4	E56	B/2	: Pre-wiring for front fog lamps
C4	E20	B/1	: Horn	G3	E62	B/4	: Cooling fan relay
A2	E24	—	: Body ground	C3	E63	GR/4	: Heated oxygen sensor 2
G3	E25	B/3	: Front combination lamp LH (Without daytime light system)	F3	E65	B/3	: Front combination lamp RH (Headlamp aiming motor)
A3	E26	B/3	: Front combination lamp RH (Without daytime light system)	B2	E66	B/3	: Front combination lamp LH (Headlamp aiming motor)
G2	E27	B/2	: Front combination lamp LH (Without daytime light system)	A5	E68	GR/2	: Front combination lamp RH (With daytime light system)
A2	E28	B/2	: Front combination lamp RH (Without daytime light system)	E5	E69	GR/2	: Front combination lamp LH (With daytime light system)
F4	E29	GR/3	: Front combination lamp LH (Without daytime light system)	F5	E70	BR/3	: Intelligent Key warning buzzer
B3	E30	GR/3	: Front combination lamp RH (Without daytime light system)	A3	E73	B/3	: Front combination lamp RH (With daytime light system)
E3	E31	GR/4	: Cooling fan motor	G3	E74	B/3	: Front combination lamp LH (With daytime light system)
E4	E32	W/2	: Cooling fan motor	F4	E75	GR/2	: Front combination lamp LH (With daytime light system)
B2	E33	B/38	: ABS actuator and electric unit (Control unit)	C3	E76	GR/2	: Front combination lamp RH (With daytime light system)
E2	E39	W/3	: Horn relay	A3	E77	B/2	: Front combination lamp RH (With daytime light system)
E2	E40	B/2	: Brake fluid level switch	G2	E78	B/2	: Front combination lamp LH (With daytime light system)

HARNESS

< WIRING DIAGRAM >

ENGINE ROOM HARNESS (PASSENGER COMPARTMENT)



AAMIA0164ZZ

A3	E7	SMJ	: To M69	C3	E36	BR/2	: Brake pedal position switch
A4	E11	B/2	: To M78	D2	E48	W/4	: Clutch position switch
D4	E12	B/6	: Accelerator pedal position sensor	C3	E57	B/2	: Stop lamp switch (With M/T)
C3	E13	W/4	: Stop lamp switch (With CVT)	B2	E58	L/4	: Front fog lamp relay
B3	E14	L/12	: Joint connector-E03	A3	E59	—	: Body ground

HARNESS

< WIRING DIAGRAM >

A4	E21	GR/16	: To B12	A2	E60	—	: Body ground
B2	E22	W/22	: Joint connector-E02	B3	E61	—	: Body ground
B3	E23	B/2	: EPS control unit	B1	E67	L/4	: Daytime light relay
C2	E34	BR/2	: Clutch interlock switch				

ENGINE CONTROL HARNESS



AAMIA0165ZZ

HARNESS

< WIRING DIAGRAM >

B3	F1	B/3	: Generator	D3	F29	B/2	: Fuel injector No. 3 (Rear)	A
B3	F2	—	: Generator	D3	F30	B/2	: Fuel injector No. 4 (Rear)	
B5	F3	B/1	: A/C compressor	C1	F31	B/6	: Mass air flow sensor	B
B4	F4	—	: Generator	E1	F32	GR/2	: Exhaust valve timing control solenoid valve	
C4	F5	—	: Engine ground	F1	F33	W/6	: To E19	C
E2	F6	GR/2	: Engine coolant temperature sensor	B1	F34	GR/3	: Ignition coil No. 1 (With power transistor)	
D1	F7	B/6	: Electric throttle control actuator	C1	F35	GR/3	: Ignition coil No. 2 (With power transistor)	D
E1	F8	W/24	: To E8	C1	F36	GR/3	: Ignition coil No. 3 (With power transistor)	
G2	F10	GR/32	: ECM	D2	F37	GR/3	: Ignition coil No. 4 (With power transistor)	E
G1	F11	BR/48	: ECM	C4	F38	B/3	: Engine oil pressure sensor	F
D2	F12	BR/4	: Air fuel ratio (A/F) sensor 1	G3	F39	—	: Fusible link box (Battery)	
C3	F14	B/2	: Knock sensor	G3	F40	—	: Fusible link box (Battery)	G
E2	F15	B/3	: Crankshaft position sensor (POS)	G4	F41	B/3	: Output speed sensor	
D4	F16	—	: Engine ground	F2	F42	W/12	: IPDM E/R (Intelligent power distribution module engine room)	H
B3	F17	B/2	: Fuel injector No. 1 (Front)	F2	F43	W/12	: IPDM E/R (Intelligent power distribution module engine room)	
C3	F18	B/2	: Fuel injector No. 2 (Front)	F2	F44	B/48	: TCM (Transmission control module)	I
C3	F19	B/2	: Fuel injector No. 3 (Front)	F4	F46	GR/22	: CVT unit	
D3	F20	B/2	: Fuel injector No. 4 (Front)	G4	F48	B/3	: Secondary speed sensor	J
D2	F21	B/3	: Intake camshaft position sensor	G4	F50	B/3	: Primary speed sensor	
C1	F22	G/2	: EVAP canister purge volume control solenoid valve	F3	F52	B/10	: Transmission range switch	K
B3	F23	G/2	: Intake valve timing control solenoid valve	B3	F53	B/2	: Fuel injector No. 1 (Rear)	
E4	F24	G/3	: Park/neutral position (PNP) switch	C3	F54	B/2	: Fuel injector No. 2 (Rear)	L
C4	F25	GR/2	: Engine oil temperature sensor	G1	F55	GR/12	: To E55	
C3	F26	W/2	: Condenser	D2	F56	B/3	: Exhaust camshaft position sensor	PG
D3	F27	—	: Starter motor	D3	F59	—	: Engine ground	
D4	F28	—	: Starter motor					

BODY HARNESS

2014 Note

HARNESS

< WIRING DIAGRAM >

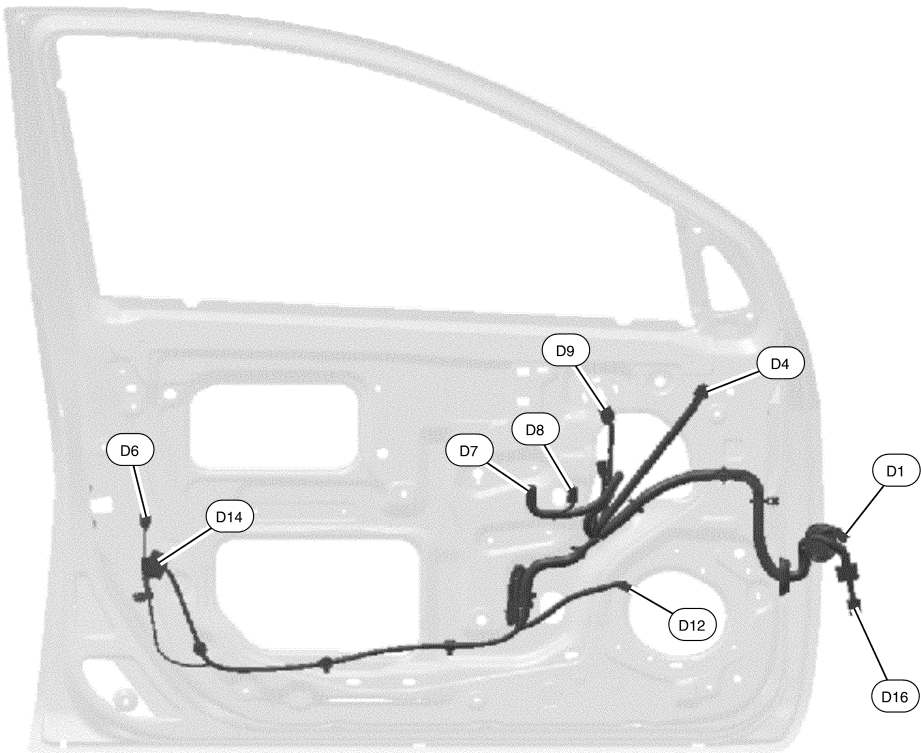
E2	B9	Y/22	: Air bag diagnosis sensor unit	D5	B33	W/32	: Bluetooth® control unit	A
E3	B11	W/10	: To D301	C5	B34	W/8	: Bluetooth® control unit	
E1	B12	GR/16	: To E21	C4	B35	B/2	: Rear wheel sensor RH	
E3	B13	W/3	: Seat belt buckle switch LH	F2	B37	Y/22	: Air bag diagnosis sensor unit	B
C2	B14	Y/2	: Front LH seat belt pre-tensioner	F4	B39	Y/2	: Front RH seat belt pre-tensioner	
F3	B16	W/4	: Front door switch RH	B3	B42	B/1	: Condenser	
E4	B17	W/4	: Rear door switch RH	D3	B44	GR/5	: Fuel level sensor unit and fuel pump	C
B3	B18	B/2	: High-mounted stop lamp	C4	B48	B/2	: Inside key antenna (Trunk room)	
A3	B19	—	: Body ground	B5	B49	B/2	: Outside key antenna (Rear bumper)	D
D4	B21	W/4	: Cargo lamp	B3	B52	W/4	: To D504	
C3	B22	GR/2	: Rear wheel sensor LH	B4	B53	W/8	: To D503	
F1	B23	W/16	: To M15	A4	B85	—	: Body ground	E
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< WIRING DIAGRAM >

D5	R1	W/8	: To M1	E1	R7	W/3	: Interior room lamp
C2	R2	W/6	: Map lamp	D2	R15	W/4	: Microphone

HARNESS

< WIRING DIAGRAM >
FRONT DOOR LH HARNESS



AAMIA0168ZZ

D1	W/12	: To M9	D9	B/2	: Front power window motor LH
D4	W/12	: Door mirror LH	D12	W/2	: Front door speaker LH
D6	GR/2	: Front outside handle LH (Outside key antenna)	D14	GR/6	: Front door lock assembly LH
D7	W/16	: Main power window and door lock/unlock switch	D16	W/24	: To M93
D8	W/3	: Main power window and door lock/unlock switch			

PG

N

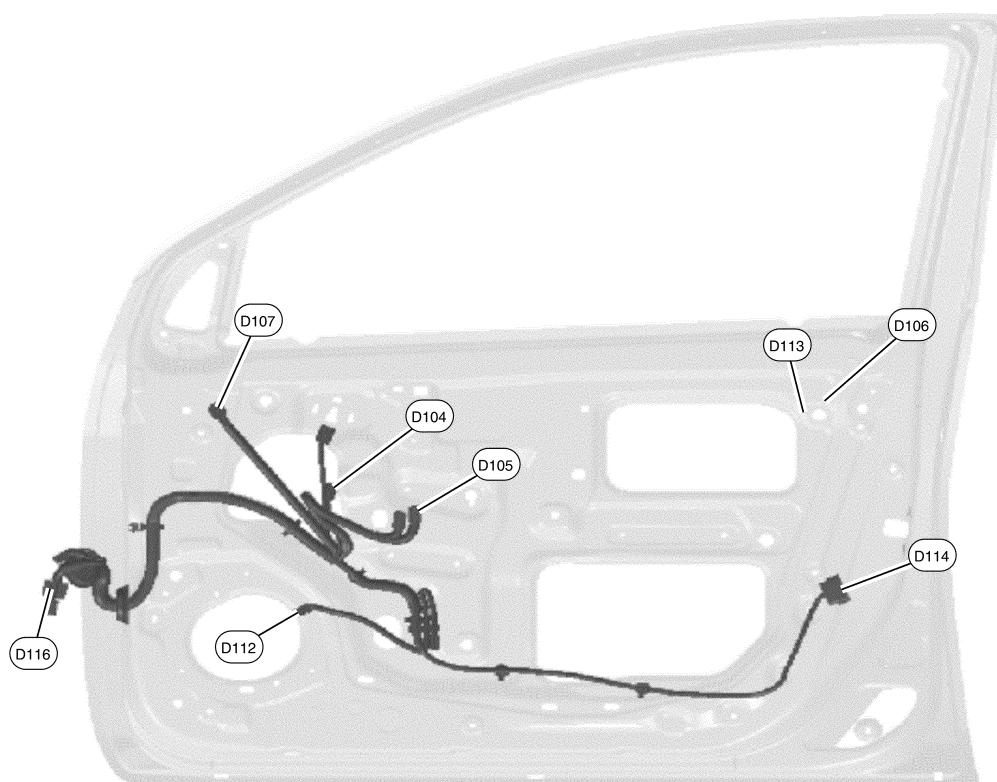
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HARNESS

< WIRING DIAGRAM >

FRONT DOOR RH HARNESS

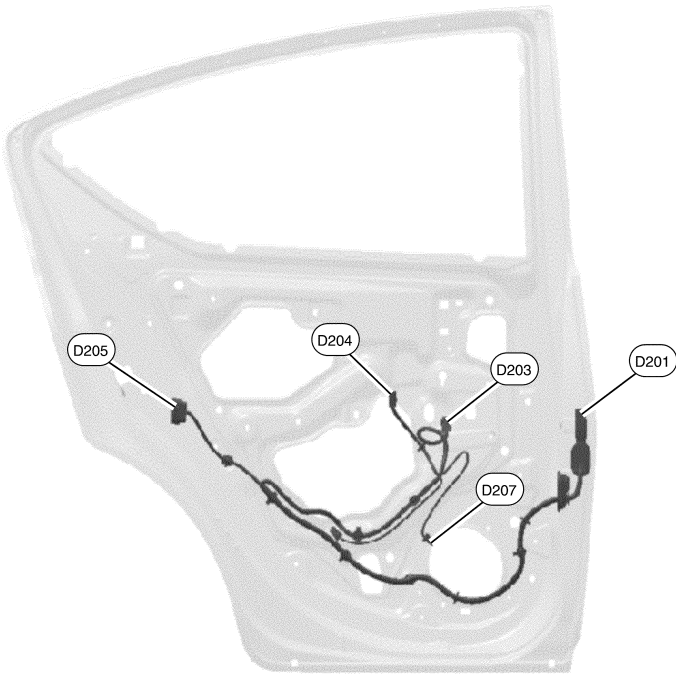


AAMIA0169ZZ

D104	B/2	: Front power window motor RH	D112	W/2	: Front door speaker RH
D105	W/12	: Power window and door lock/unlock switch RH	D113	GR/2	: Front outside handle RH (Request switch)
D106	GR/2	: Front outside handle RH (Outside key antenna)	D114	GR/6	: Front door lock actuator RH
D107	W/12	: Door mirror RH	D116	W/12	: To M92

HARNESS

< WIRING DIAGRAM >
REAR DOOR LH HARNESS



AAMIA0170ZZ

D201	W/10	: To B4	D205	GR/6	: Rear door lock actuator LH
D203	W/8	: Rear power window switch LH	D207	W/2	: Rear door speaker LH
D204	B/2	: Rear power window motor LH			

PG

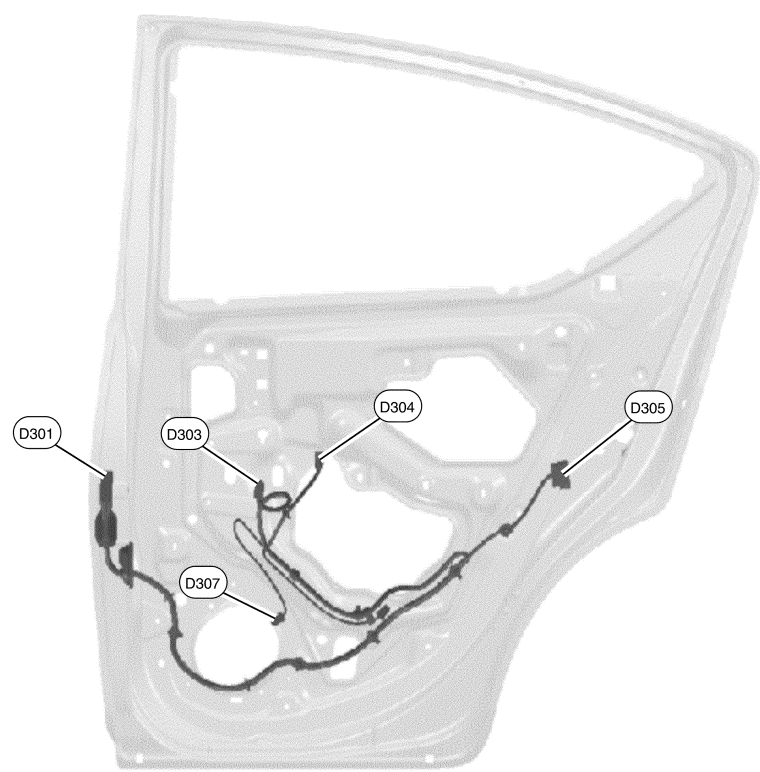
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< WIRING DIAGRAM >
REAR DOOR RH HARNESS



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D301	W/10	: To B11	D305	GR/6	: Rear door lock actuator RH
D303	W/8	: Rear power window switch RH	D307	W/2	: Rear door speaker RH
D304	B/2	: Rear power window motor RH			

BACK DOOR HARNESS



P

2014 Note

ELECTRICAL UNITS LOCATION

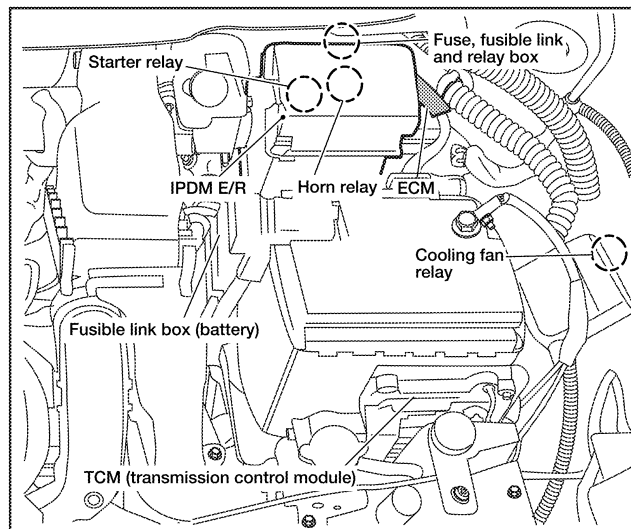
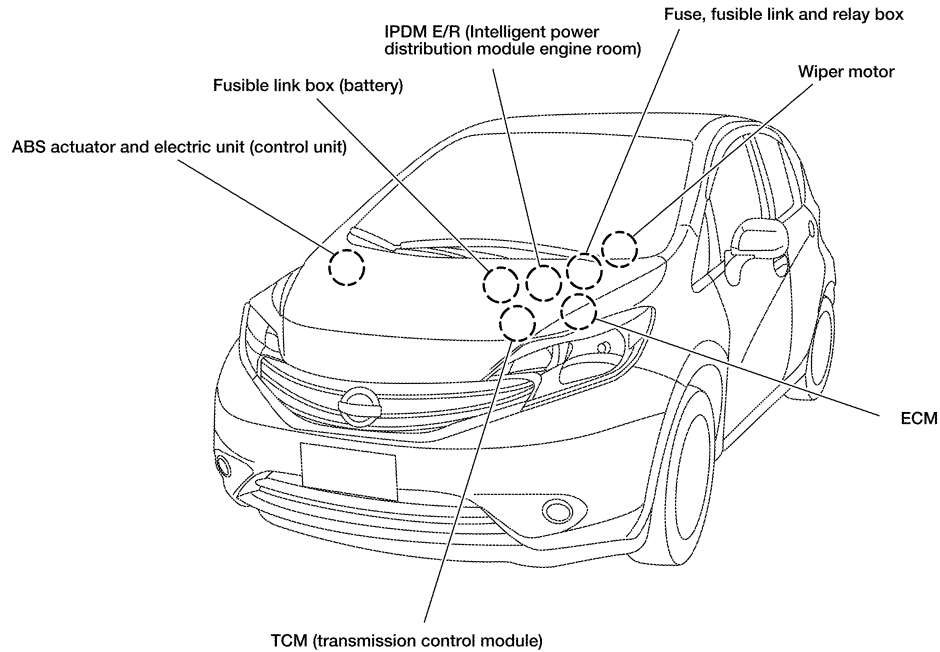
< WIRING DIAGRAM >

ELECTRICAL UNITS LOCATION

Electrical Units Location

INFOID:000000009707859

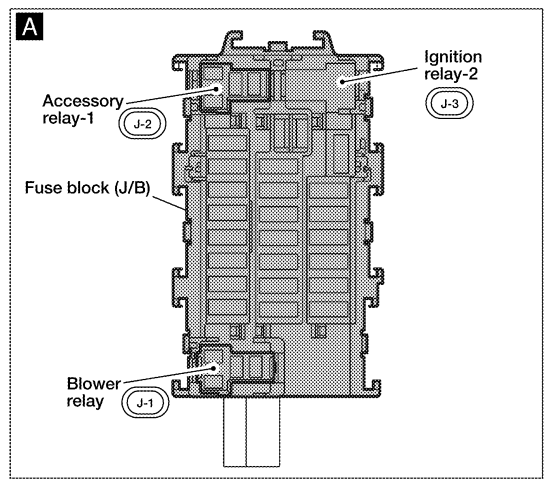
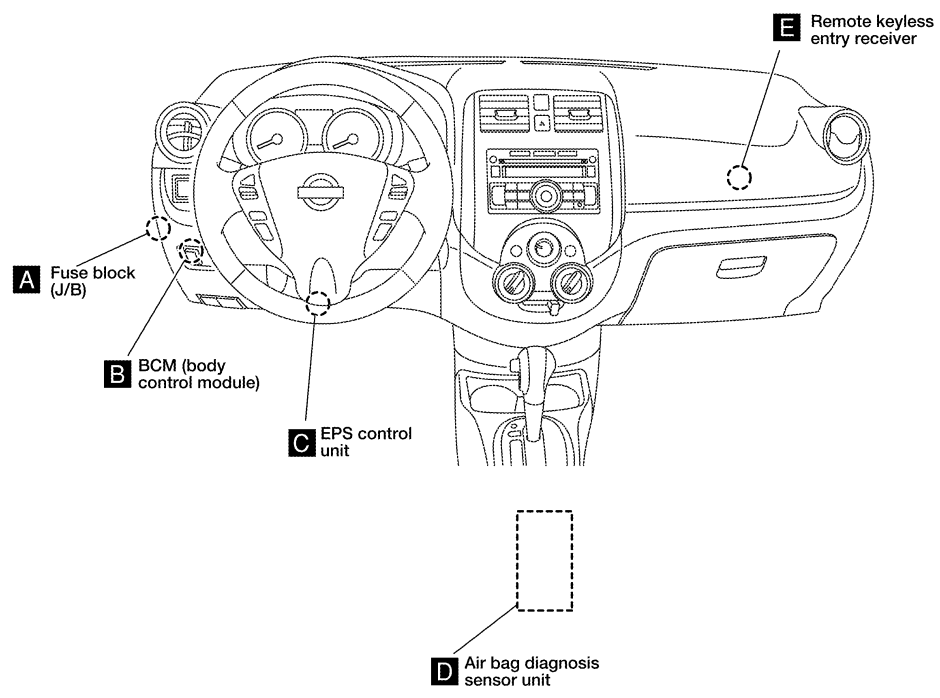
ENGINE COMPARTMENT



AAMIA1758GB

ELECTRICAL UNITS LOCATION

< WIRING DIAGRAM >
PASSENGER COMPARTMENT

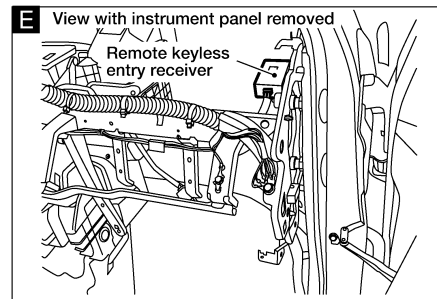
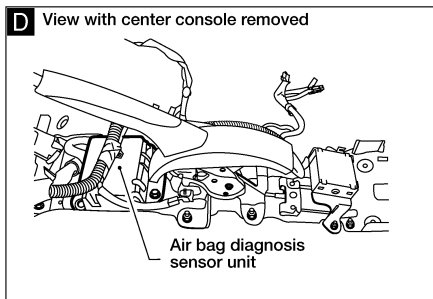
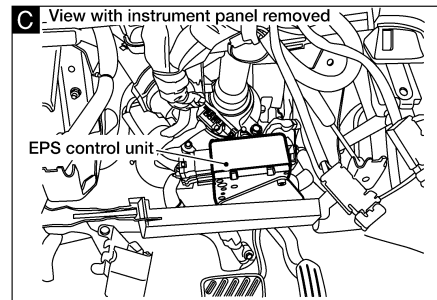
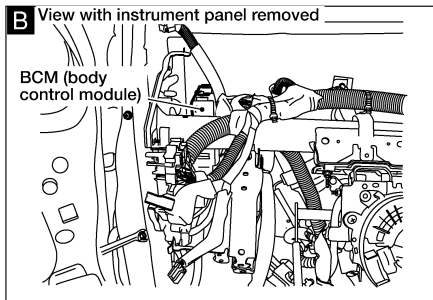


AAMIA1759GB

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ELECTRICAL UNITS LOCATION

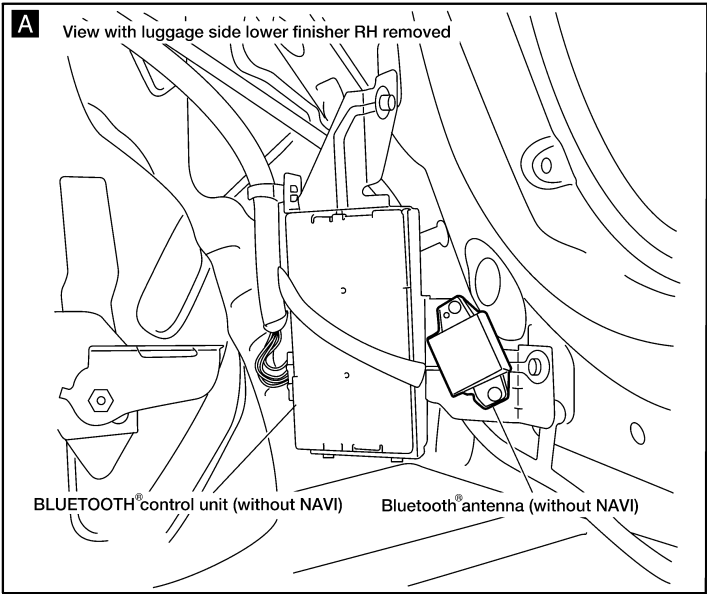
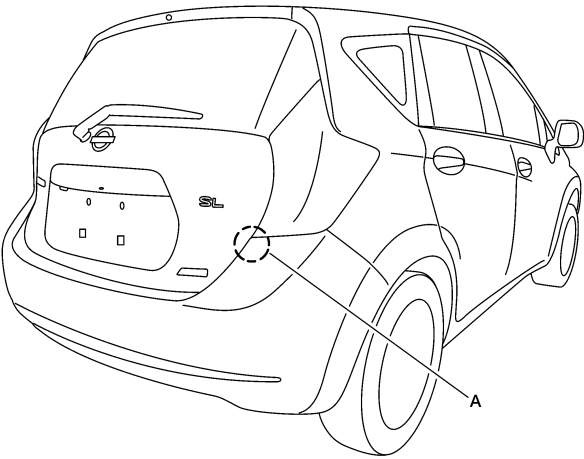
< WIRING DIAGRAM >



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ELECTRICAL UNITS LOCATION

< WIRING DIAGRAM >
LUGGAGE COMPARTMENT



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AAMIA1761GB

BATTERY

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY

How to Handle Battery

INFOID:000000009643749

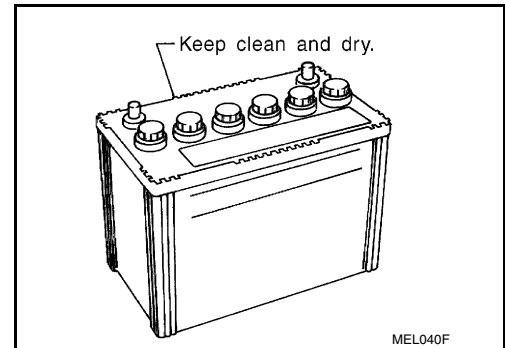
CAUTION:

- 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.

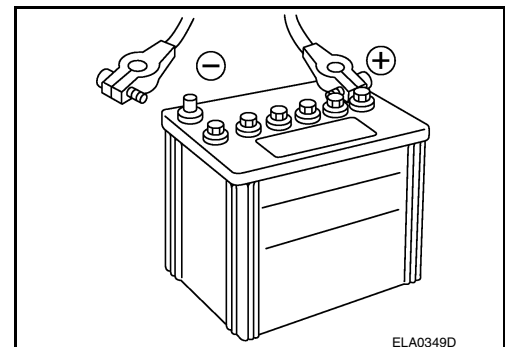
METHODS OF PREVENTING OVER-DISCHARGE

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:000000009643750

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

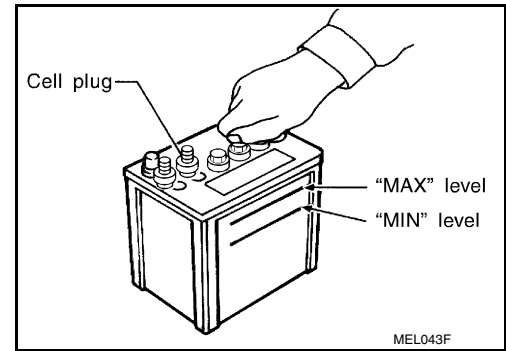
WARNING:

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

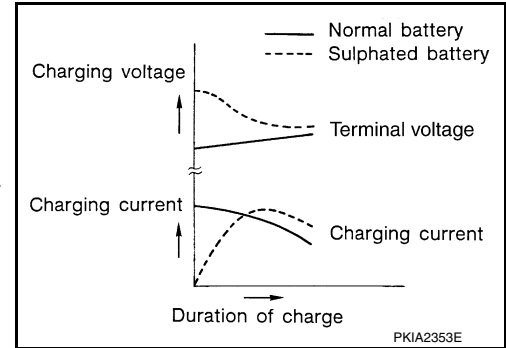
< BASIC INSPECTION >

- 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.



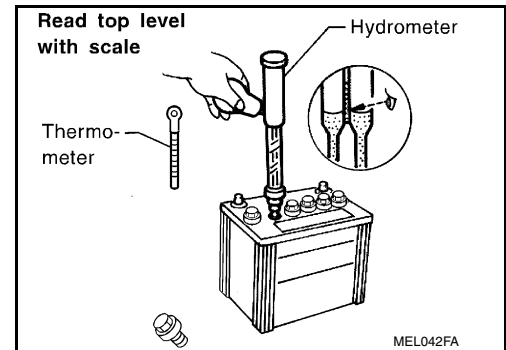
Specific Gravity Check

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

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:000000009643751

Required Procedure After Battery Disconnection

System	Item	Reference
Engine Control System	Idle Air Volume Learning	EC-115
Audio, Visual and Navigation System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation System	Refer to Owner's Manual.

FUSE INSPECTION

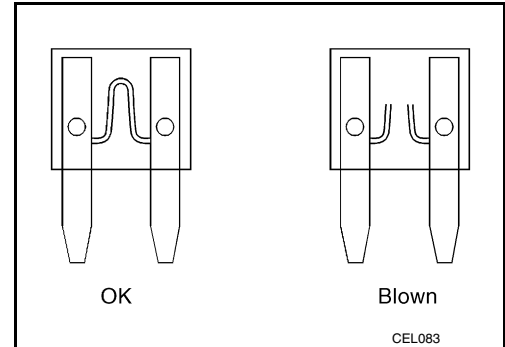
< BASIC INSPECTION >

FUSE INSPECTION

How To Check

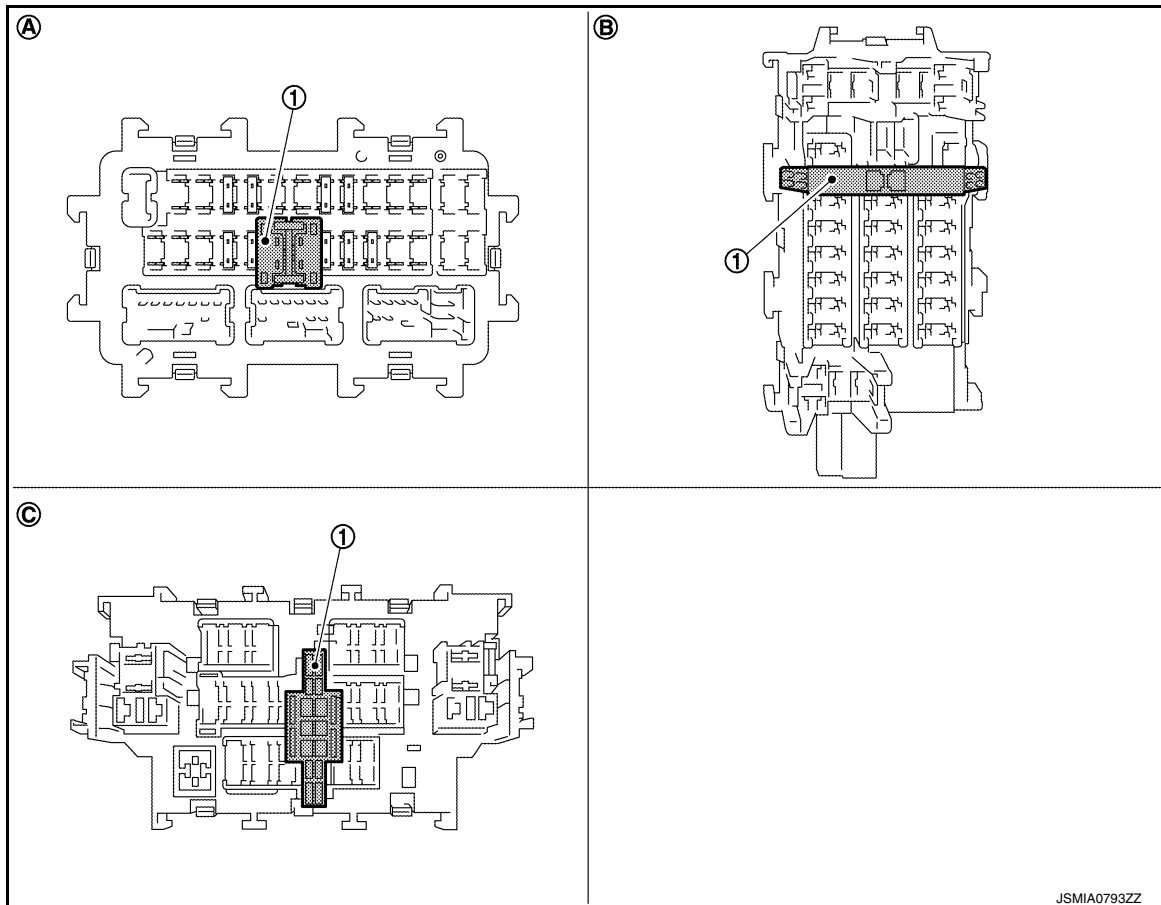
INFOID:000000009725276

- 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

A. Type A

B. Type B

C. Type C

- Remove the extended storage fuse switch when replacing the fuse of extended storage fuse switch.
- Remove the extended storage fuse switch if it causes the interference when the fuse or the other fuses is checked.

How To Extended Storage Fuse Switch ON/OFF

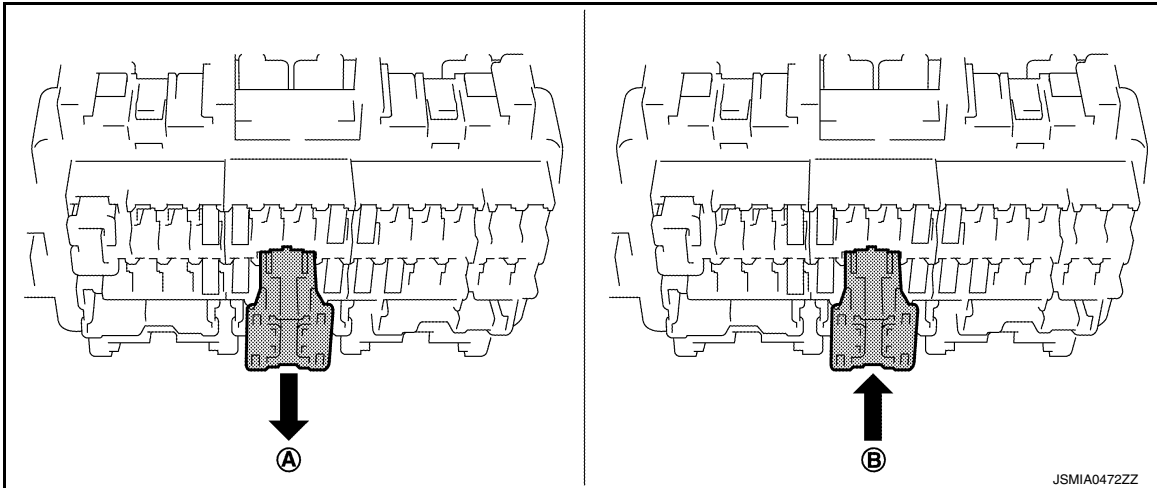
CAUTION:

- 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

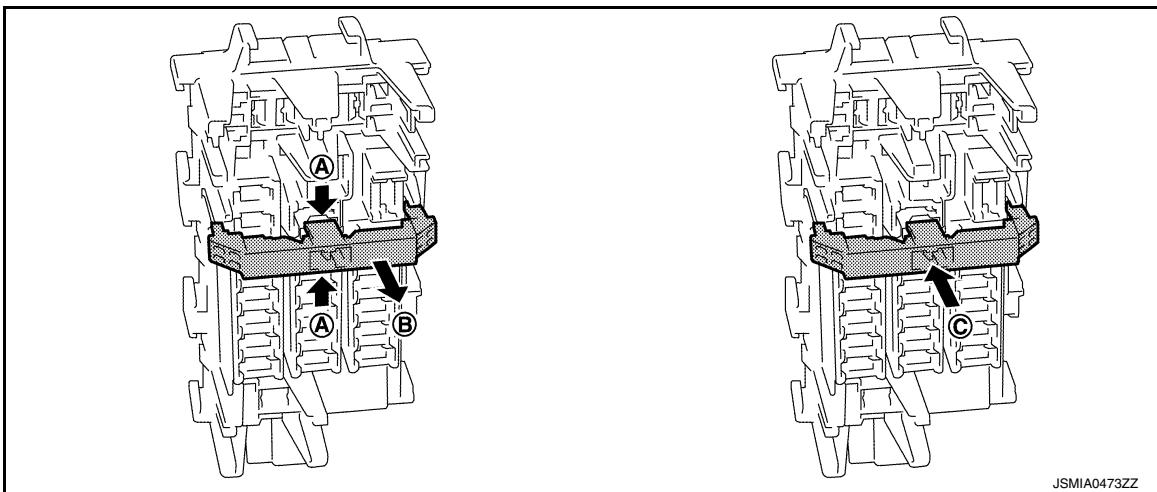
< BASIC INSPECTION >

• Type A



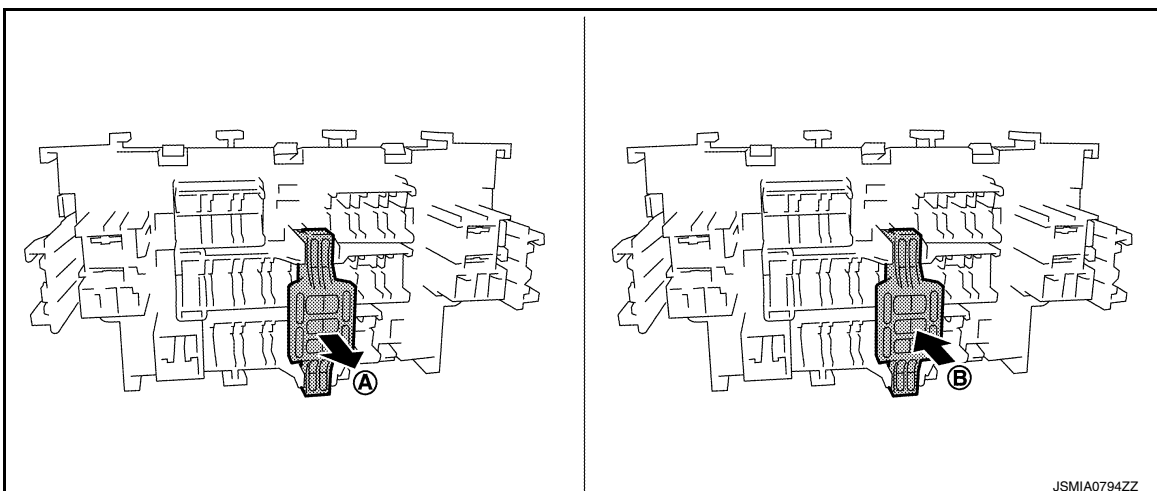
- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

• 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.

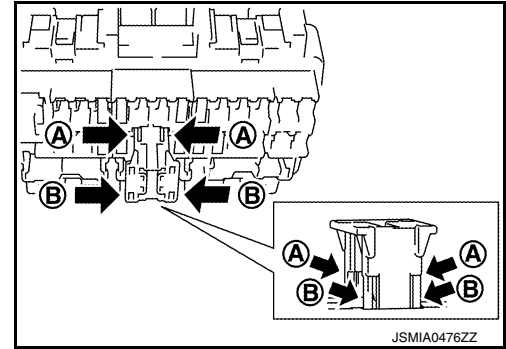
How To Remove Extended Storage Fuse Switch

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.

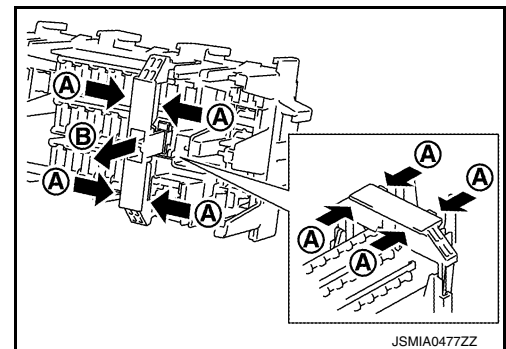


NOTE:

- Extended storage fuse switch and fuse are removed together. Remove fuse from extended storage fuse switch, if necessary.
- 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.

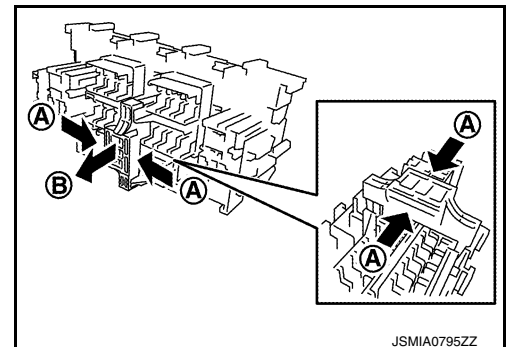


NOTE:

- Extended storage fuse switch and fuse may be removed together. Remove fuse from extended storage fuse switch, if necessary.
- 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.
3. Hold (A) and pull up the extended storage fuse switch hard in (B) direction.



NOTE:

- Extended storage fuse switch and fuse are removed together. Remove fuse from extended storage fuse switch, if necessary.

FUSE INSPECTION

< BASIC INSPECTION >

- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

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FUSIBLE LINK INSPECTION

< BASIC INSPECTION >

FUSIBLE LINK INSPECTION

How To Check

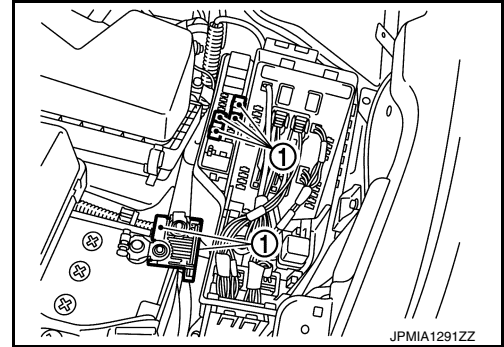
INFOID:000000009725277

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.



BATTERY

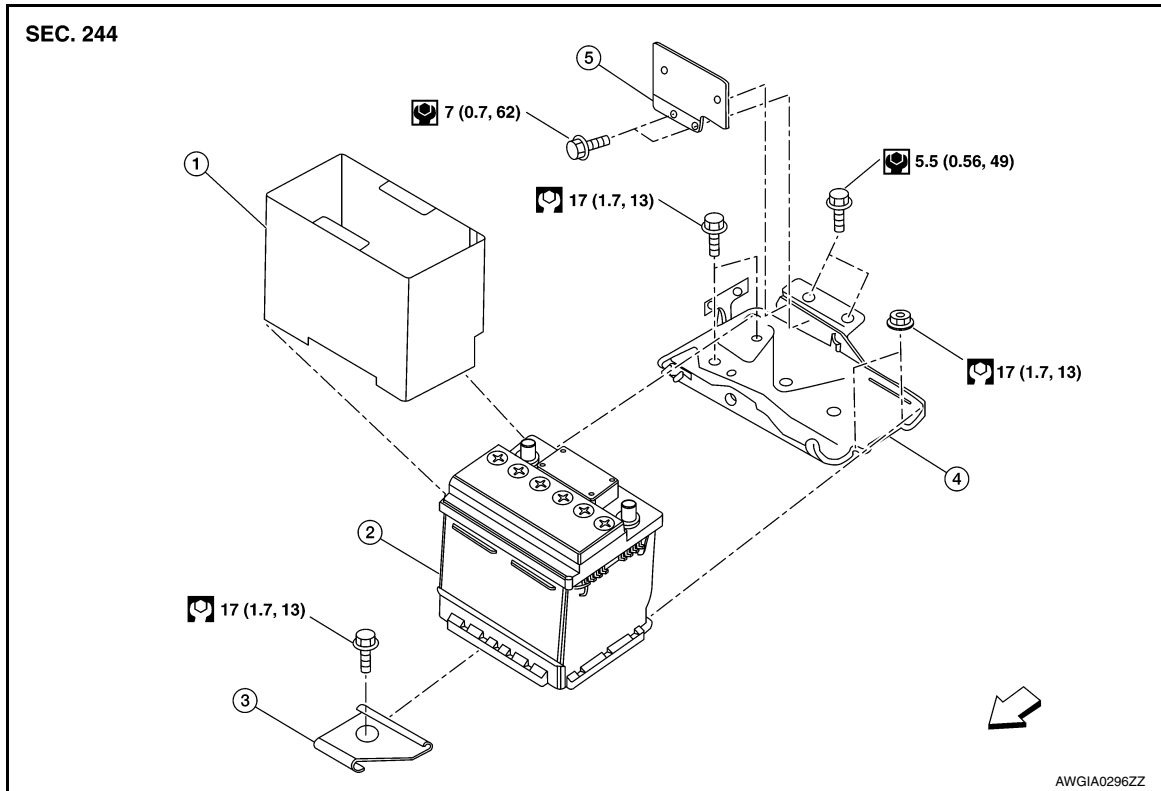
< REMOVAL AND INSTALLATION >

REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:000000009015555



- | | | |
|------------------|-------------------------|--------------------------|
| 1. Battery cover | 2. Battery | 3. Battery wedge bracket |
| 4. Battery tray | 5. Battery tray bracket | ← Front |

Removal and Installation (Battery)

INFOID:000000009015556

CAUTION:

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

REMOVAL

1. Remove the air duct inlet. Refer to [EM-26, "Exploded View"](#).
2. Disconnect the battery cable from the negative terminal and set aside.
3. Disconnect the battery cable from the positive terminal and set aside.
4. Remove the battery wedge bracket.
5. Remove the battery cover and the battery.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

To install the battery, carefully read the following instructions:

- To prevent damage to the parts, connect the battery cable to the positive terminal first.
- 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-63, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

BATTERY

< REMOVAL AND INSTALLATION >

Removal and Installation (Battery Tray)

INFOID:000000009643002

CAUTION:

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

REMOVAL

1. Remove battery. Refer to [PG-69, "Removal and Installation \(Battery\)"](#).
2. Remove the battery bracket. Refer to [PG-69, "Exploded View"](#).
3. Remove the IPDM E/R. Refer to [PCS-30, "Removal and Installation"](#).
4. Disconnect the harness connector from the TCM and remove the TCM bracket. Refer to [TM-235, "Exploded View"](#).
5. Disconnect the harness connectors from the battery tray and battery tray bracket.
6. Remove the nuts and bolts and remove the battery tray bracket and battery tray. Refer to [PG-69, "Exploded View"](#).

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Replace electrical components as necessary, if any have 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-63, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement"](#).

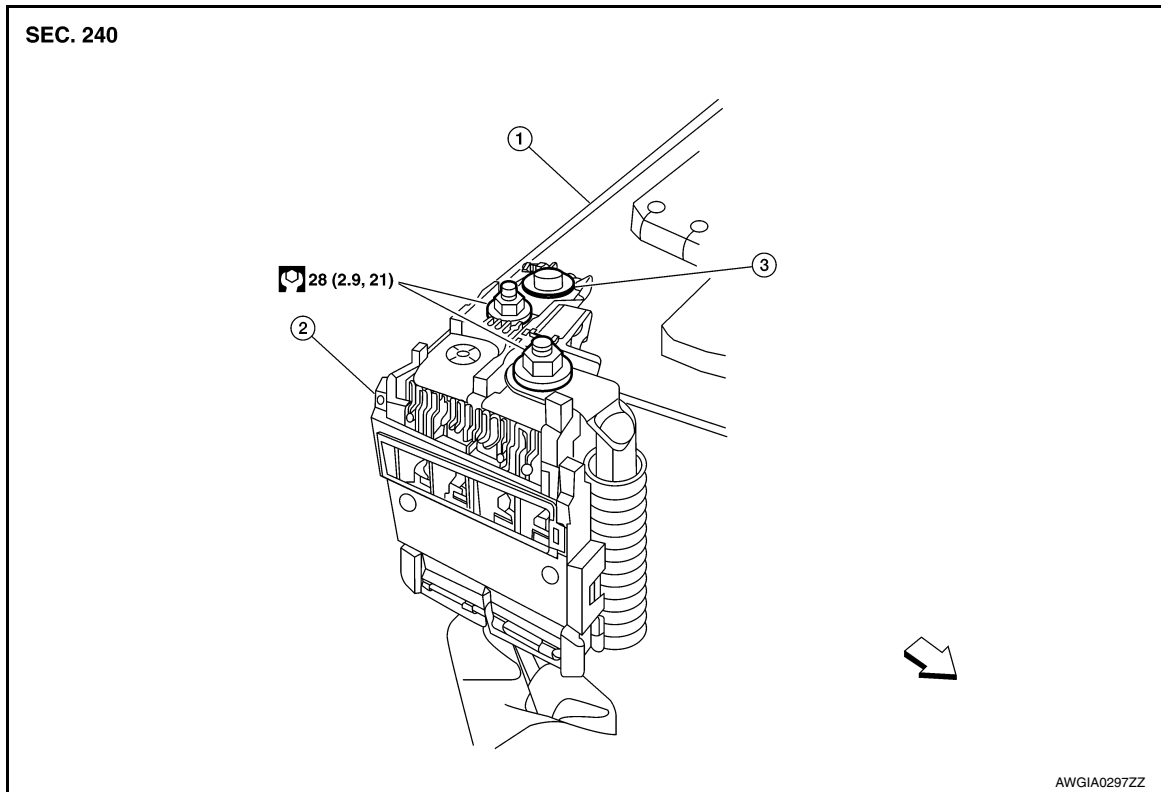
BATTERY TERMINAL WITH FUSIBLE LINK

< REMOVAL AND INSTALLATION >

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:000000009015557



1. Battery

2. Fusible link box (battery)

3. Terminal connector

⇐ Front

Removal and Installation

INFOID:000000009015558

CAUTION:

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

REMOVAL

1. Disconnect the battery cable from the negative terminal and set aside. Refer to [PG-69, "Exploded View"](#).
2. Disconnect the battery cable with the fusible link box (battery) from positive terminal.
3. Open cover of the fusible link box (battery).
4. Remove harness nut from the fusible link box (battery) and separate the fusible link box (battery) from terminal connector.
5. Disconnect harness connectors and remove the 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-63, "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:0000000009015560

Type		Q-85
5 hour rate minimum	[V – Ah]	12 – 36
Cold cranking current A (For reference value)	A	470

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