SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000011151100

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.**

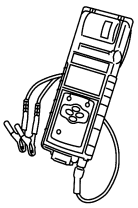
PREPARATION

PREPARATION

Special Service Tools

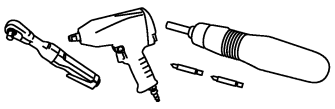
INFOID:0000000011151101

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

Tool number (TechMate No.) Tool name	Description
— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station  AWIIA1239ZZ	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.

Commercial Service Tool

INFOID:0000000011151102

Tool name	Description
Power tool  PIIB1407E	Loosening nuts, screws and bolts

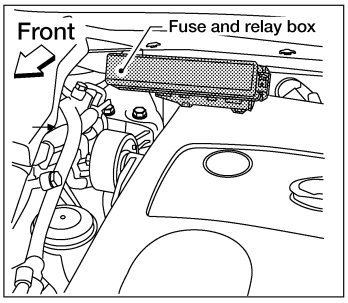
SYSTEM DESCRIPTION

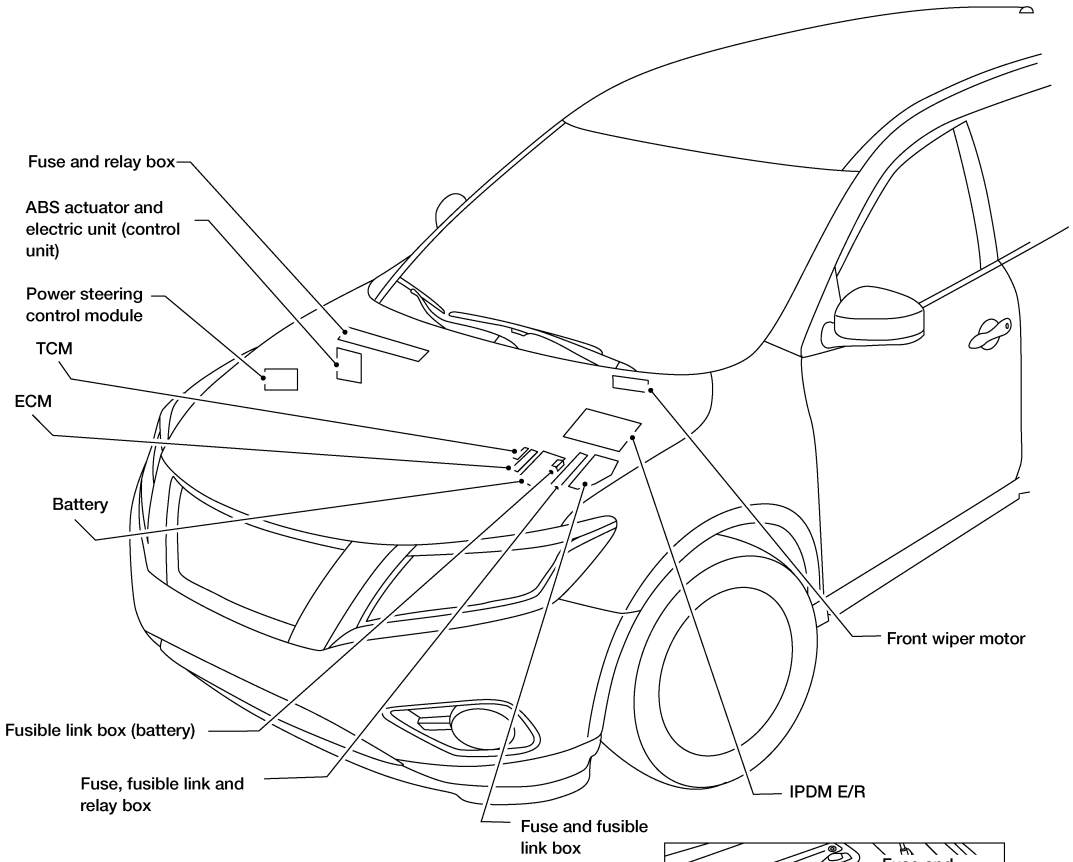
ELECTRICAL UNITS LOCATION

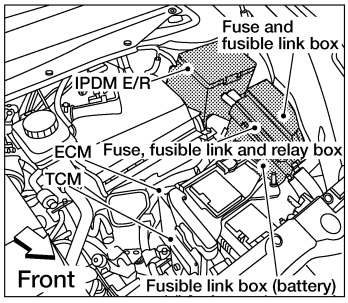
Electrical Units Location

INFOID:0000000011151112

ENGINE COMPARTMENT







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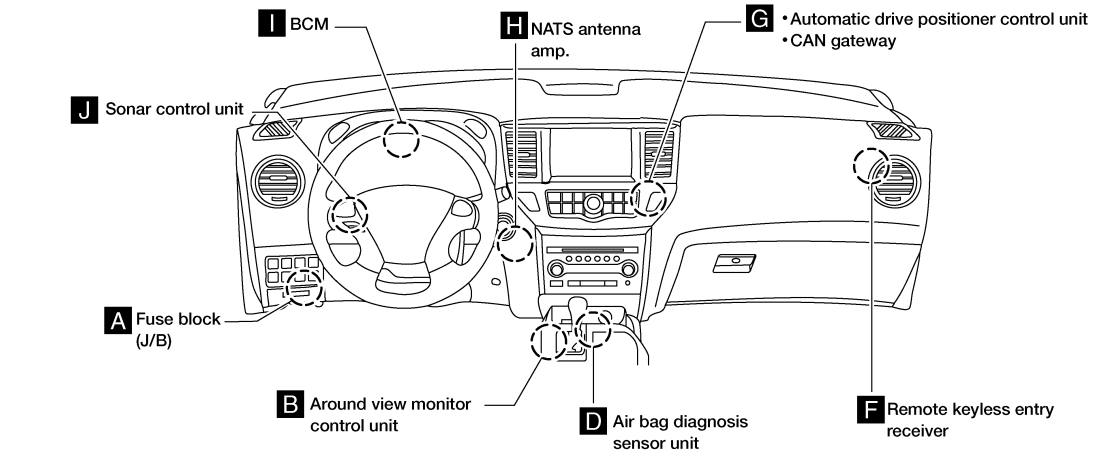

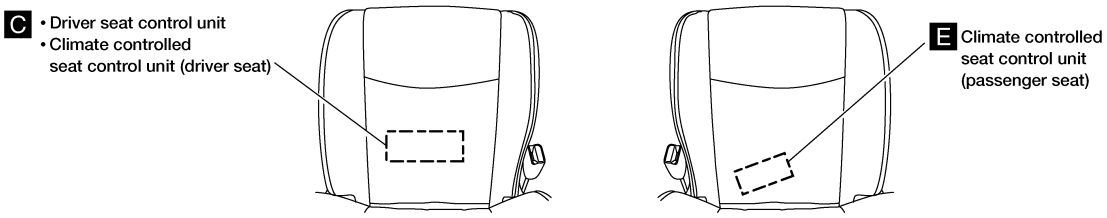

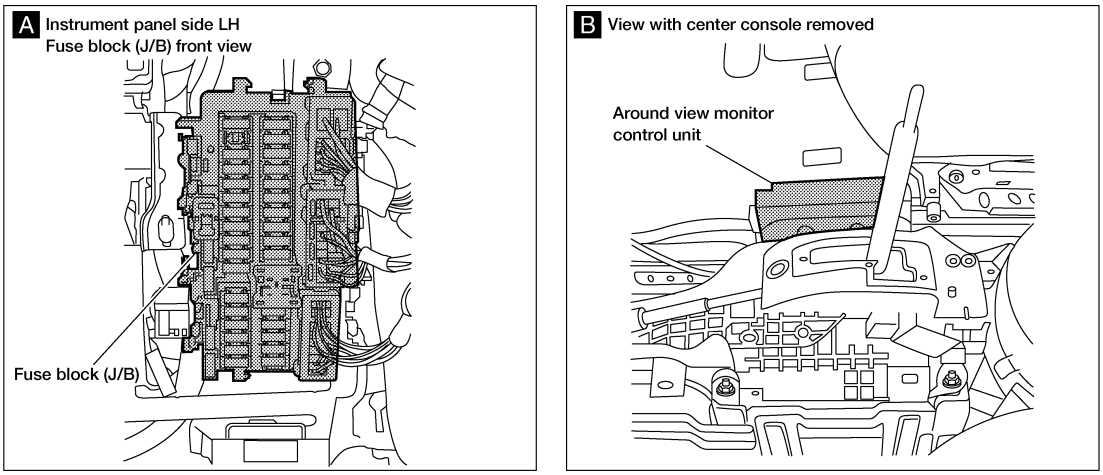

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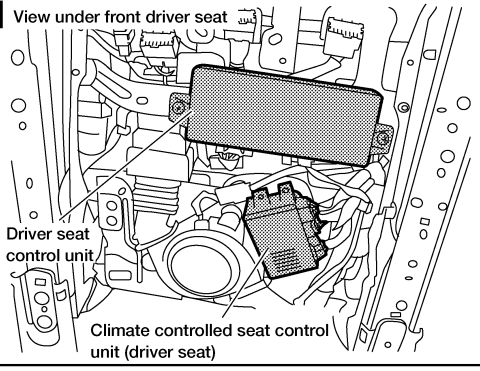
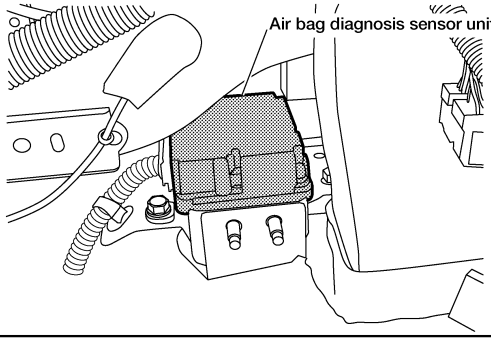
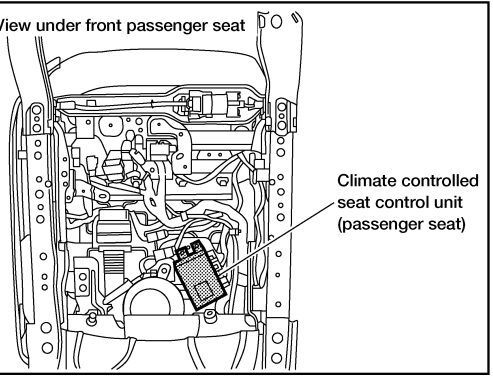
C View under front driver seat



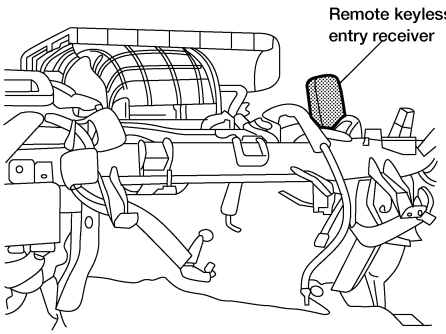
D View behind center console



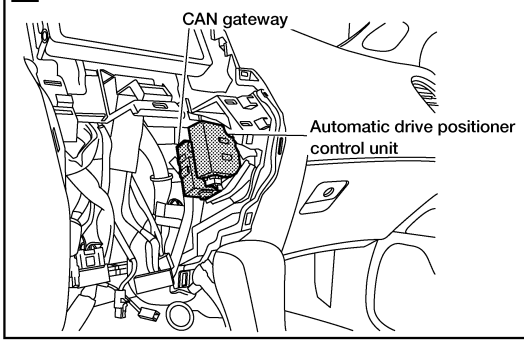
E View under front passenger seat



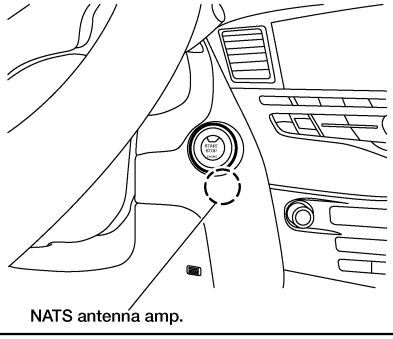
F View with instrument panel removed



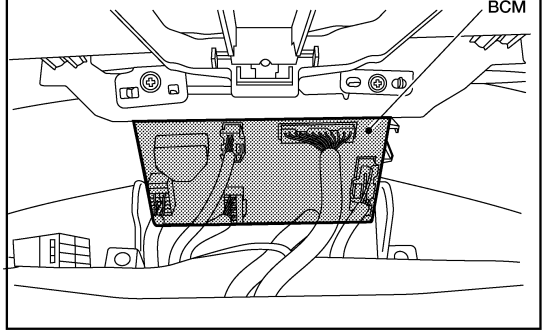
G View with center console removed



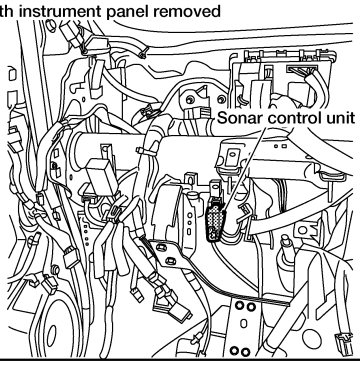
H



I View with instrument panel removed



J View with instrument panel removed



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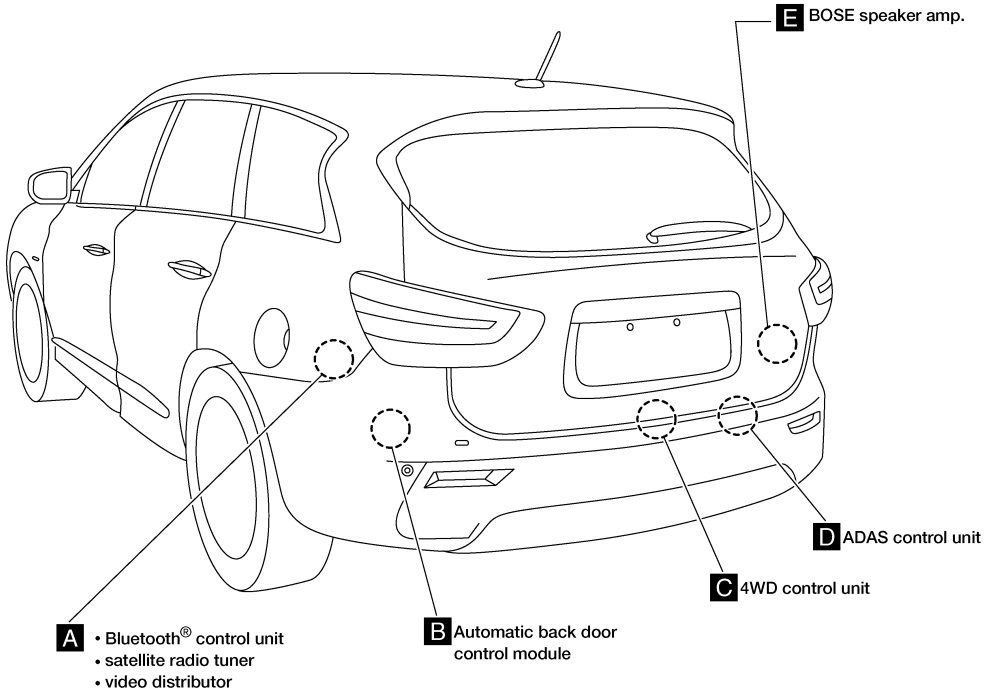

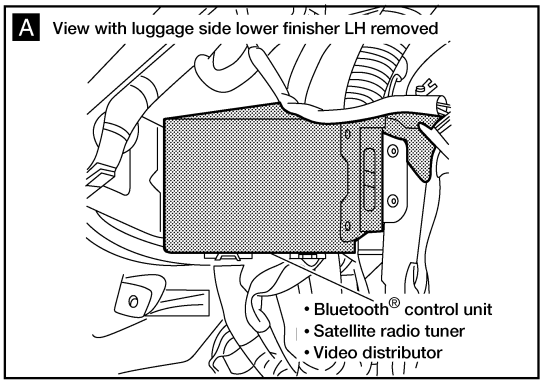

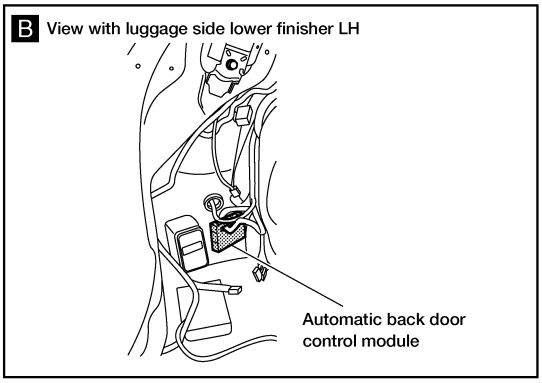

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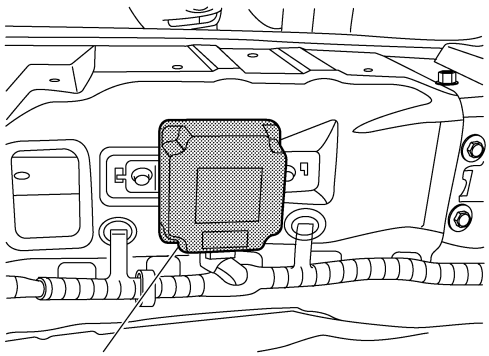
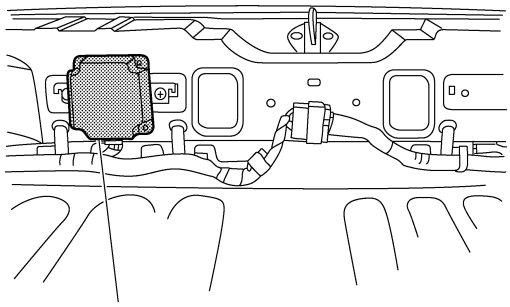
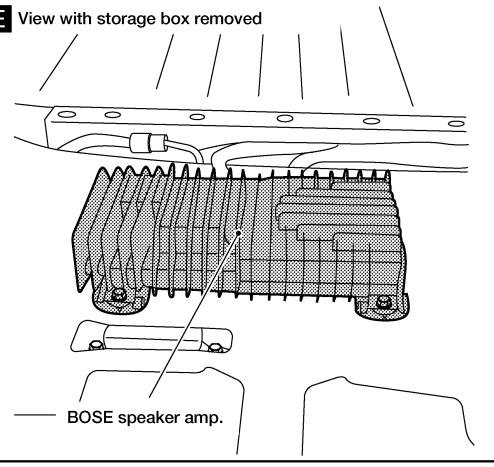
C View with storage box removed



D View with storage box removed



E View with storage box removed



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COMPONENT PARTS

Circuit Breaker (Built Into BCM)

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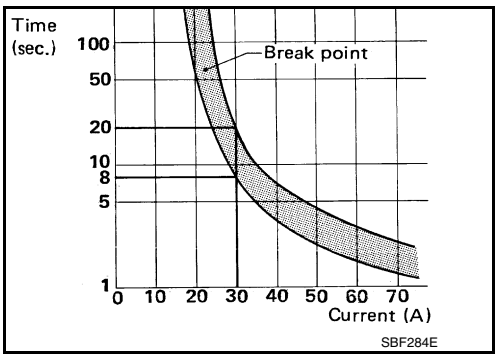
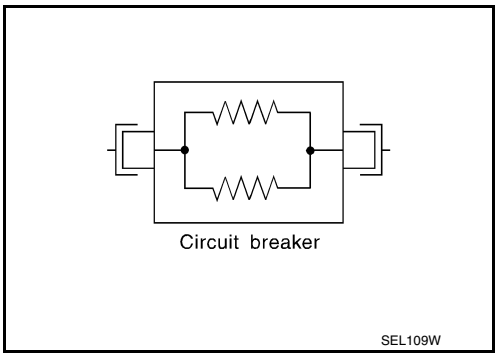
For example, when current is 30A, the circuit is broken within 8 to 20 seconds.
This circuit breaker is used for the following systems:
- Power windows
- Power moonroof



Circuit Breaker (External to BCM)

INFOID:0000000011241181

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



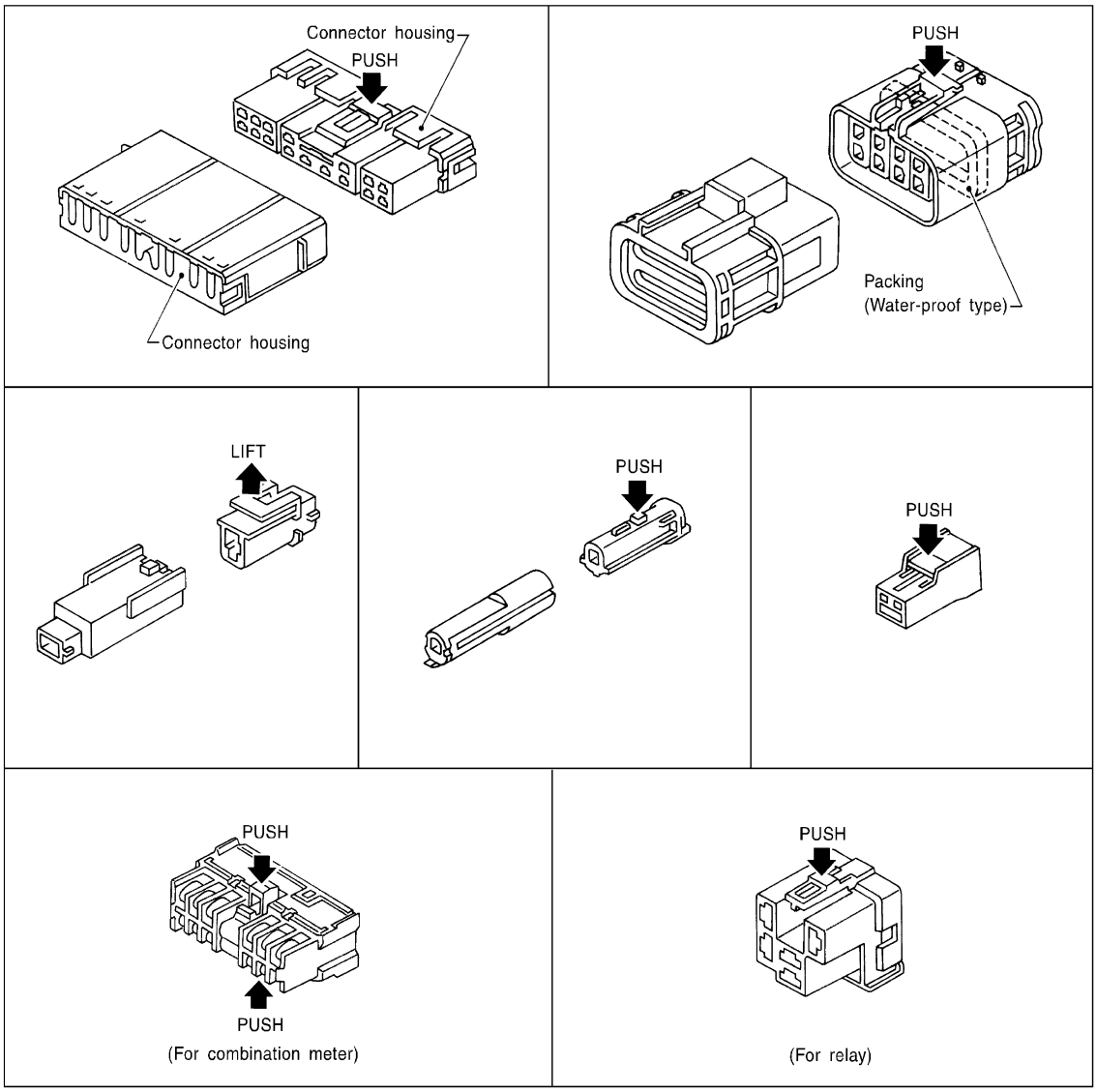
Harness Connector

INFOID:0000000011151113

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

Refer to the next page for description of the slide-locking type connector.
CAUTION:
Do not pull the harness or wires when disconnecting the connector.

[Example]



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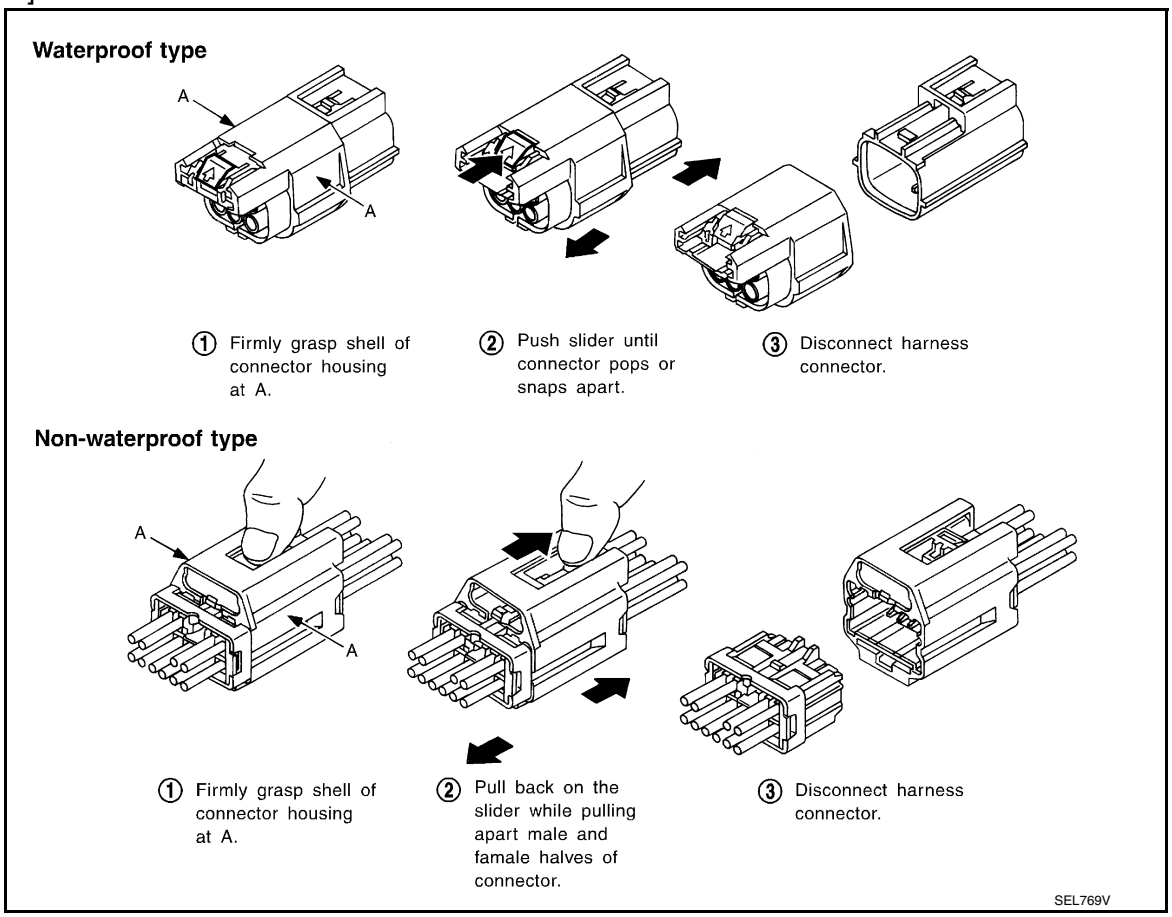
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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.**

[Example]

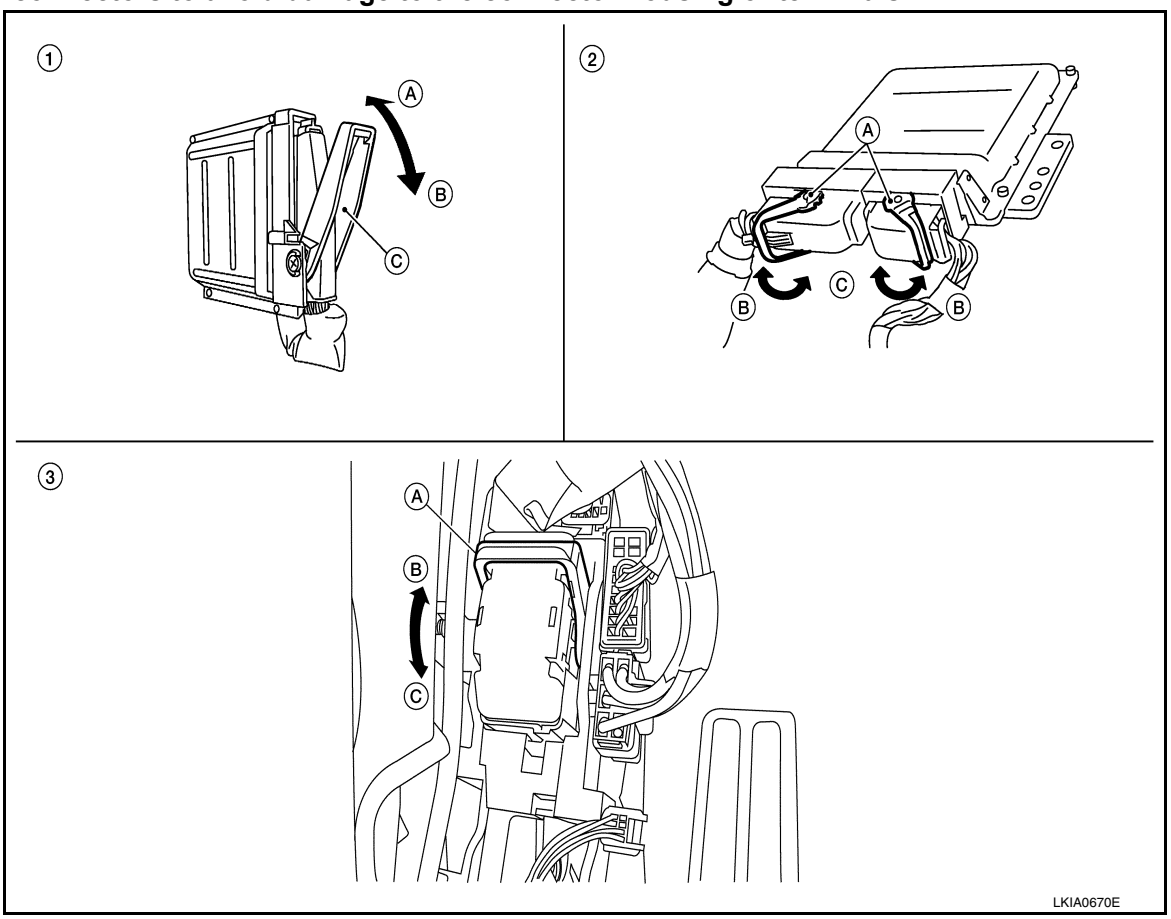


HARNESS CONNECTOR (LEVER LOCKING TYPE)

- 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:

- **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.**



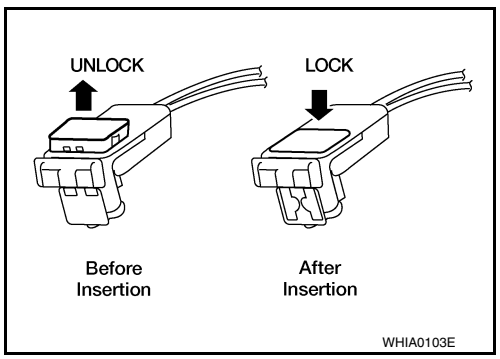
1. Control unit with single lever
   A. Fasten
   B. Loosen
   C. Lever
2. Control unit with dual lever
   A. Lever
   B. Fasten
   C. Loosen
3. SMJ connector
   A. Lever
   B. Fasten
   C. Loosen

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

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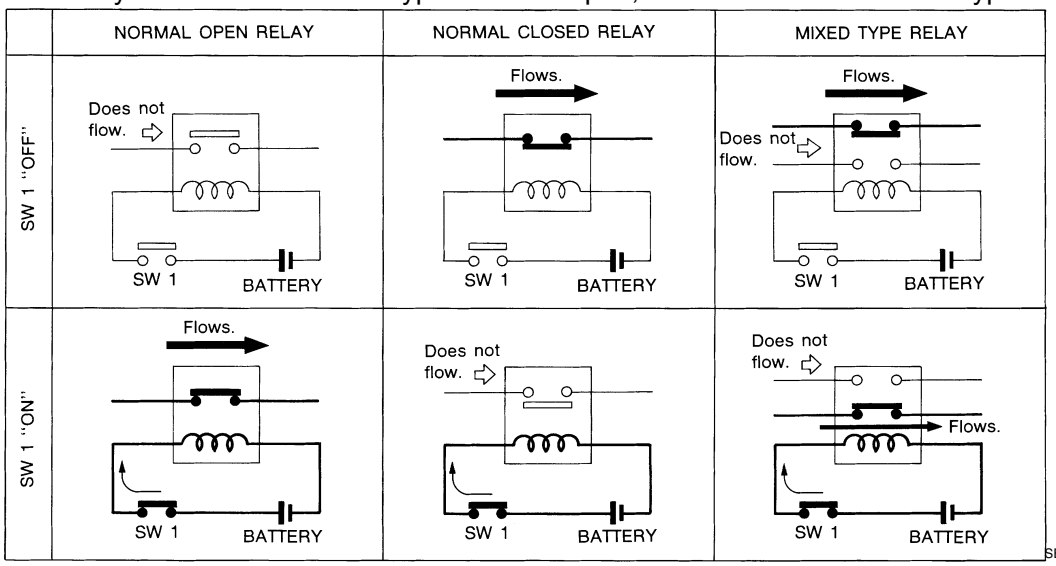
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



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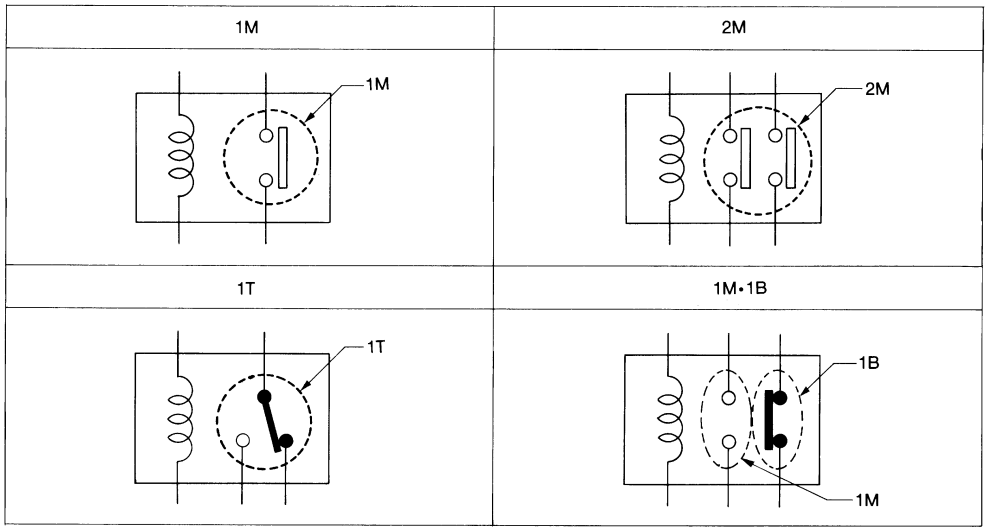
TYPE OF STANDARDIZED RELAYS

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



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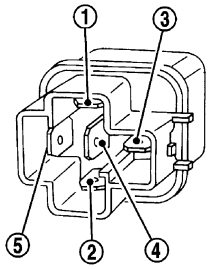
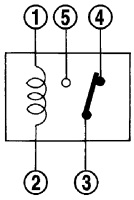
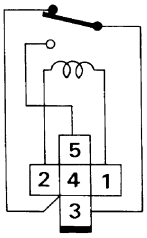
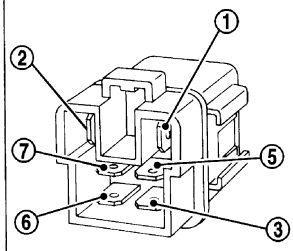
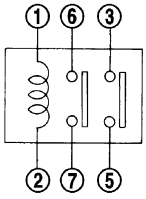
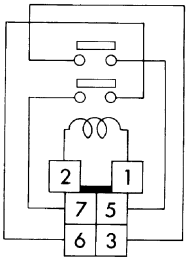
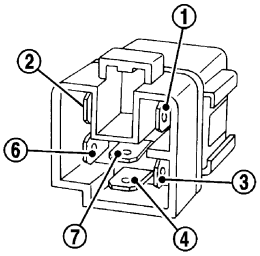
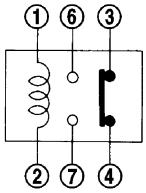
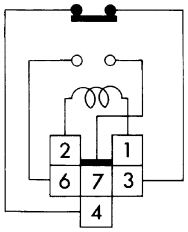
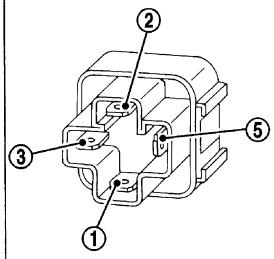
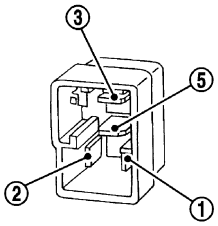
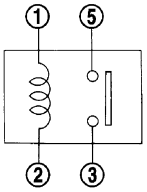
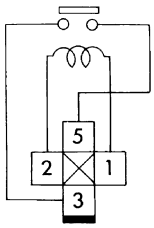
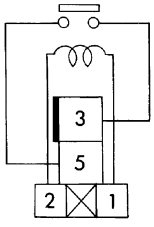
Type	Outer view	Circuit	Connector symbol and connection	Case color
1T				BLACK
2M				BROWN
1M•1B				GRAY
1M	 		 	BLUE

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

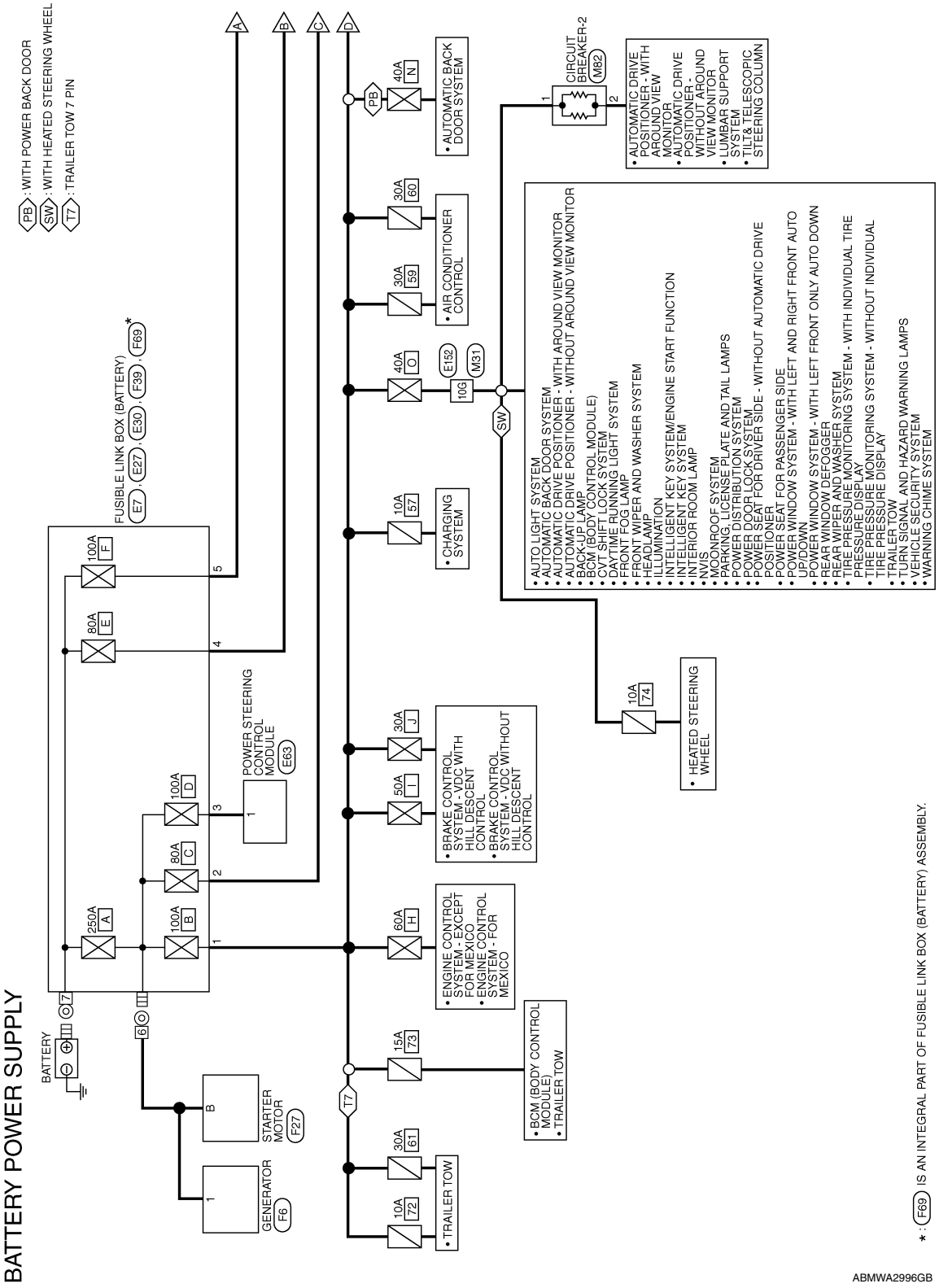
SEL188W

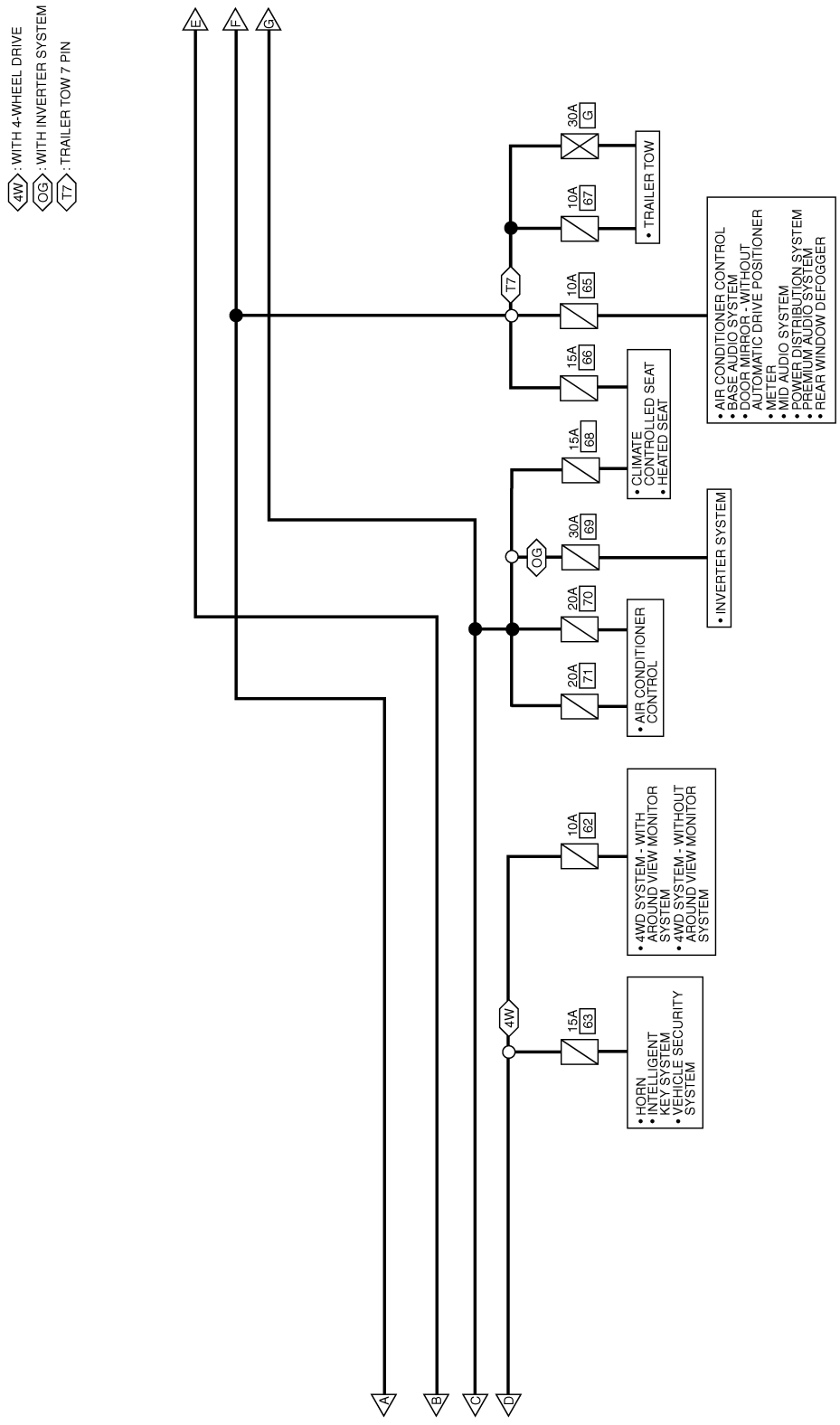
WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

INFOID:0000000011151107





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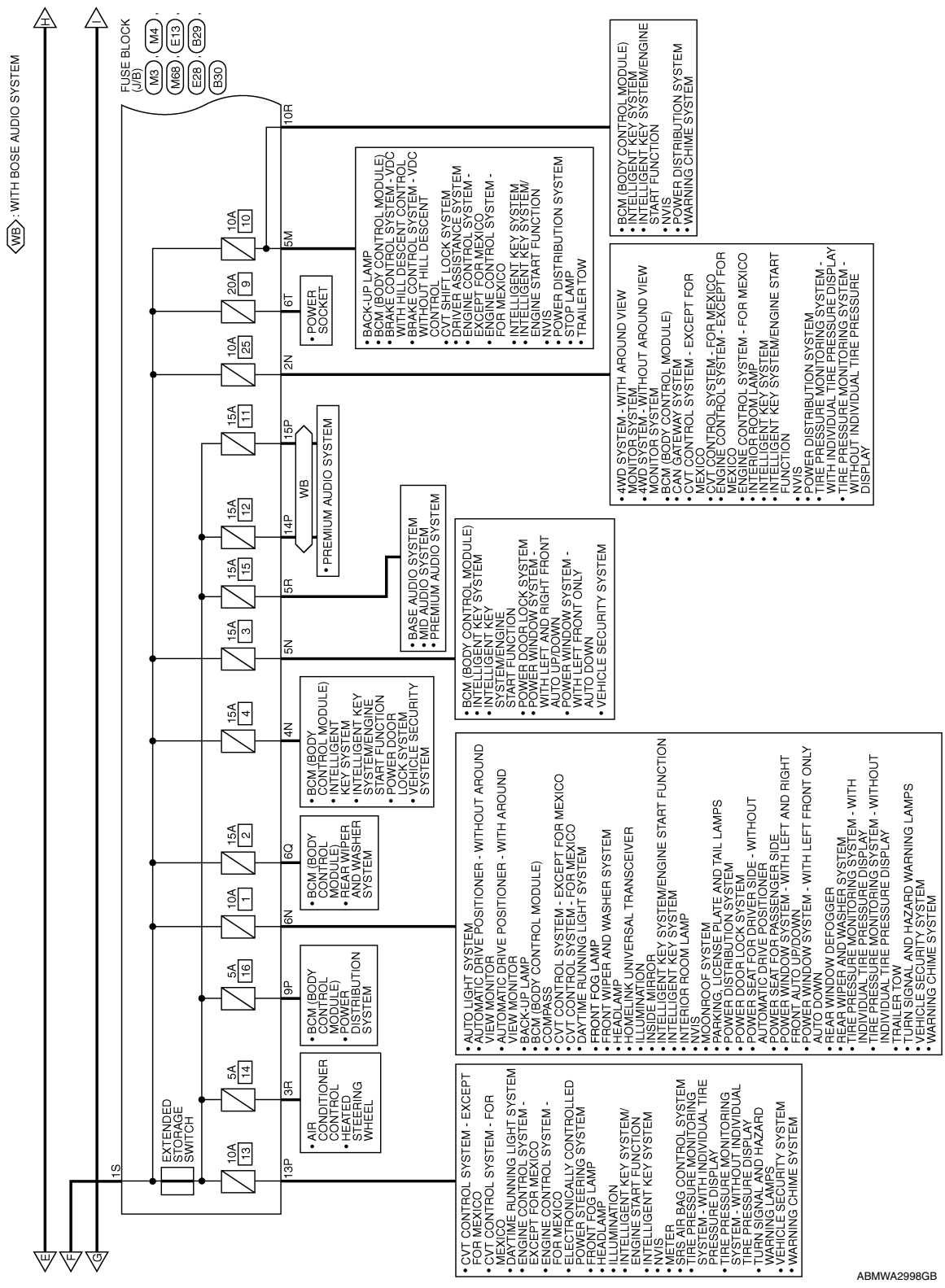
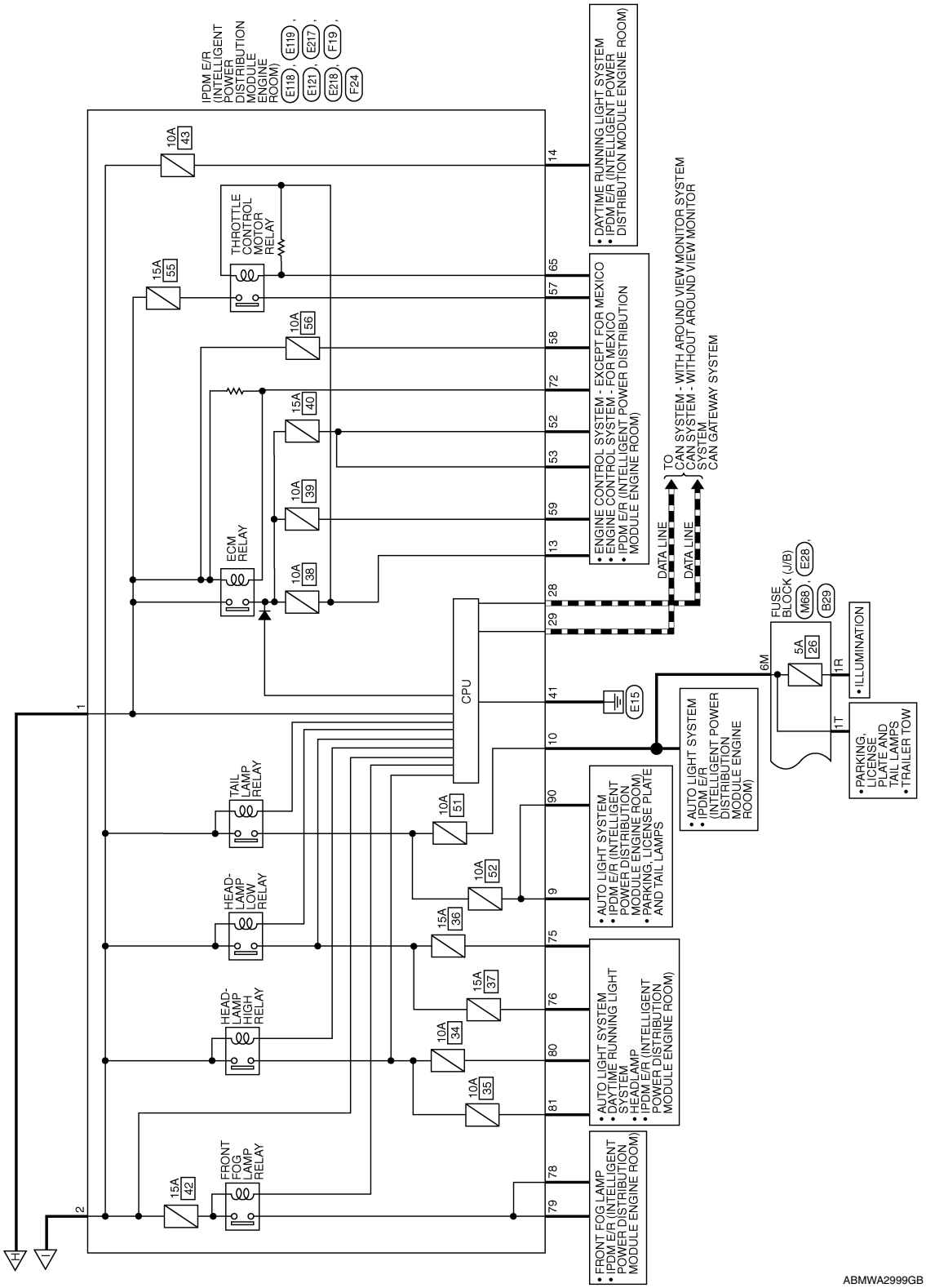

WB : WITH BOSE AUDIO SYSTEM
FUSE BLOCK (J/B)
M3, M4, M68, E13, E28, B29, B30
EXTENDED STORAGE SWITCH
1S
10A 13
5A 14
5A 16
10A 1
15A 2
15A 4
15A 3
15A 15
15A 12
15A 11
10A 25
20A 9
10A 10
13P
3R
9P
6N
6Q
4N
5N
5R
14P
15P
2N
6T
5M
10R
E
F
G
H
• AIR CONDITIONER CONTROL • HEATED STEERING WHEEL
• BCM (BODY CONTROL MODULE) • POWER DISTRIBUTION SYSTEM
• BCM (BODY CONTROL MODULE) • REAR WIPER AND WASHER SYSTEM
• BCM (BODY CONTROL MODULE) • INTELLIGENT KEY SYSTEM • INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION • POWER DOOR LOCK SYSTEM • VEHICLE SECURITY SYSTEM
• BASE AUDIO SYSTEM • MID AUDIO SYSTEM • PREMIUM AUDIO SYSTEM
• PREMIUM AUDIO SYSTEM
WB
• BCM (BODY CONTROL MODULE) • INTELLIGENT KEY SYSTEM • INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION • POWER DOOR LOCK SYSTEM • POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT AUTO UP/DOWN • POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY AUTO DOWN • VEHICLE SECURITY SYSTEM
• POWER SOCKET
• 4WD SYSTEM - WITH AROUND VIEW MONITOR SYSTEM • 4WD SYSTEM - WITHOUT AROUND VIEW MONITOR SYSTEM • BCM (BODY CONTROL MODULE) • CAN GATEWAY SYSTEM • CVT CONTROL SYSTEM - EXCEPT FOR MEXICO • CVT CONTROL SYSTEM - FOR MEXICO • ENGINE CONTROL SYSTEM - EXCEPT FOR MEXICO • ENGINE CONTROL SYSTEM - FOR MEXICO • INTERIOR ROOM LAMP • INTELLIGENT KEY SYSTEM • INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION • NVIS • POWER DISTRIBUTION SYSTEM • TIRE PRESSURE MONITORING SYSTEM - WITH INDIVIDUAL TIRE PRESSURE DISPLAY • TIRE PRESSURE MONITORING SYSTEM - WITHOUT INDIVIDUAL TIRE PRESSURE DISPLAY
• BACK-UP LAMP • BCM (BODY CONTROL MODULE) • BRAKE CONTROL SYSTEM - VDC WITH HILL DESCENT CONTROL • BRAKE CONTROL SYSTEM - VDC WITHOUT HILL DESCENT CONTROL • CVT SHIFT LOCK SYSTEM • DRIVER ASSISTANCE SYSTEM • ENGINE CONTROL SYSTEM - EXCEPT FOR MEXICO • ENGINE CONTROL SYSTEM - FOR MEXICO • INTELLIGENT KEY SYSTEM • INTELLIGENT KEY SYSTEM/ ENGINE START FUNCTION • NVIS • POWER DISTRIBUTION SYSTEM • STOP LAMP • TRAILER TOW
• BCM (BODY CONTROL MODULE) • INTELLIGENT KEY SYSTEM • INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION • NVIS • POWER DISTRIBUTION SYSTEM • WARNING CHIME SYSTEM
• AUTO LIGHT SYSTEM • AUTOMATIC DRIVE POSITIONER - WITHOUT AROUND VIEW MONITOR • AUTOMATIC DRIVE POSITIONER - WITH AROUND VIEW MONITOR • BACK-UP LAMP • BCM (BODY CONTROL MODULE) • COMPASS • CVT CONTROL SYSTEM - EXCEPT FOR MEXICO • CVT CONTROL SYSTEM - FOR MEXICO • DAYTIME RUNNING LIGHT SYSTEM • FRONT FOG LAMP • FRONT WIPER AND WASHER SYSTEM • HEADLAMP • HOMELINK UNIVERSAL TRANSCEIVER • ILLUMINATION • INSIDE MIRROR • INTELLIGENT KEY SYSTEM/ENGINE START FUNCTION • INTELLIGENT KEY SYSTEM • INTERIOR ROOM LAMP • NVIS • MOONROOF SYSTEM • PARKING, LICENSE PLATE AND TAIL LAMPS • POWER DISTRIBUTION SYSTEM • POWER DOOR LOCK SYSTEM • POWER SEAT FOR DRIVER SIDE - WITHOUT AUTOMATIC DRIVE POSITIONER • POWER SEAT FOR PASSENGER SIDE • POWER WINDOW SYSTEM - WITH LEFT AND RIGHT FRONT AUTO UP/DOWN • POWER WINDOW SYSTEM - WITH LEFT FRONT ONLY AUTO DOWN • REAR WINDOW DEFOGGER • REAR WIPER AND WASHER SYSTEM • TIRE PRESSURE MONITORING SYSTEM - WITH INDIVIDUAL TIRE PRESSURE DISPLAY • TIRE PRESSURE MONITORING SYSTEM - WITHOUT INDIVIDUAL TIRE PRESSURE DISPLAY • TRAILER TOW • TURN SIGNAL AND HAZARD WARNING LAMPS • VEHICLE SECURITY SYSTEM • WARNING CHIME SYSTEM
• CVT CONTROL SYSTEM - EXCEPT FOR MEXICO • CVT CONTROL SYSTEM - FOR MEXICO • DAYTIME RUNNING LIGHT SYSTEM • ENGINE CONTROL SYSTEM - EXCEPT FOR MEXICO • ENGINE CONTROL SYSTEM - FOR MEXICO • ELECTRONICALLY CONTROLLED POWER STEERING SYSTEM • FRONT FOG LAMP • HEADLAMP • ILLUMINATION • INTELLIGENT KEY SYSTEM/ ENGINE START FUNCTION • INTELLIGENT KEY SYSTEM • NVIS • METER • SRS AIR BAG CONTROL SYSTEM • TIRE PRESSURE MONITORING SYSTEM - WITH INDIVIDUAL TIRE PRESSURE DISPLAY • TIRE PRESSURE MONITORING SYSTEM - WITHOUT INDIVIDUAL TIRE PRESSURE DISPLAY • TURN SIGNAL AND HAZARD WARNING LAMPS • VEHICLE SECURITY SYSTEM • WARNING CHIME SYSTEM
ABMWA2998GB


IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E118, E119, E121, E217, E218, F19, F24
10A 43
15A 55
THROTTLE CONTROL MOTOR RELAY
10A 56
15A 40
10A 39
10A 38
ECM RELAY
15A 42
FRONT FOG LAMP RELAY
HEAD-LAMP HIGH RELAY
HEAD-LAMP LOW RELAY
TAIL LAMP RELAY
10A 34
10A 35
15A 37
15A 36
10A 52
10A 51
CPU
E15
14
65
57
58
72
52
53
59
13
28
29
41
10
90
9
75
76
80
81
78
79
• DAYTIME RUNNING LIGHT SYSTEM
• IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
• ENGINE CONTROL SYSTEM - EXCEPT FOR MEXICO
• ENGINE CONTROL SYSTEM - FOR MEXICO
• IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
DATA LINE
DATA LINE
TO CAN SYSTEM - WITH AROUND VIEW MONITOR SYSTEM
CAN SYSTEM - WITHOUT AROUND VIEW MONITOR SYSTEM
CAN GATEWAY SYSTEM
• AUTO LIGHT SYSTEM
• IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
• AUTO LIGHT SYSTEM
• IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
• PARKING, LICENSE PLATE AND TAIL LAMPS
• AUTO LIGHT SYSTEM
• DAYTIME RUNNING LIGHT SYSTEM
• HEADLAMP
• IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
• FRONT FOG LAMP
• IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
FUSE BLOCK (J/B) M68, E28, B29
5A 26
6M
1R
1T
• ILLUMINATION
• PARKING, LICENSE PLATE AND TAIL LAMPS
• TRAILER TOW
1
2
ABMWA2999GB

BATTERY POWER SUPPLY CONNECTORS

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

H.S.

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

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

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

H.S.

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

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

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

H.S.

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

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G
22G	23G	24G	25G	26G	27G	28G	29G	30G		

31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G
42G	43G	44G	45G	46G	47G	48G	49G	50G		

51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G
62G	63G	64G	65G	66G	67G	68G	69G	70G		

71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
82G	83G	84G	85G	86G	87G	88G	89G	90G		

91G	92G	93G	94G	95G
96G	97G	98G	99G	100G

Terminal No.	Color of Wire	Signal Name
10G	W	–

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1R	R	–
3R	G	–
5R	Y	–
10R	W	–

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

H.S.

1
2

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

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

H.S.

4
3

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

ABMIA6910GB

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

H.S.

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

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

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name
5M	Y	–
6M	L	–

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

H.S.

Terminal No.	Color of Wire	Signal Name
5	W	–

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

H.S.

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

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

H.S.

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

ABMIA6911GB

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

H.S.

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

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

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

H.S.

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

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

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

H.S.

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

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

H.S.

74		75	76
77	78	79	80	81

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

ABMIA6912GB

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
90	LG	CLEARANCE

Connector No.	F6
Connector Name	GENERATOR
Connector Color	–

H.S.

1

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

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

H.S.

52	53		54	55
56	57	58	59	60	61

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

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

H.S.

62	63	64	65	66	67
68	69	70	71	72	73

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

Connector No.	F27
Connector Name	STARTER MOTOR
Connector Color	–

H.S.

B

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

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

H.S.

6

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

ABMIA6913GB

Connector No.	F69
Connector Name	FUSIBLE LINK BOX (BATTERY)
Connector Color	–

H.S.

7

Terminal No.	Color of Wire	Signal Name
7	R	–

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

H.S.

2T 1T
6T 5T 4T 3T

Terminal No.	Color of Wire	Signal Name
1T	W	–
6T	L	–

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
6Q	P	–

ABMIA6914GB

Wiring Diagram - ACCESSORY POWER SUPPLY -

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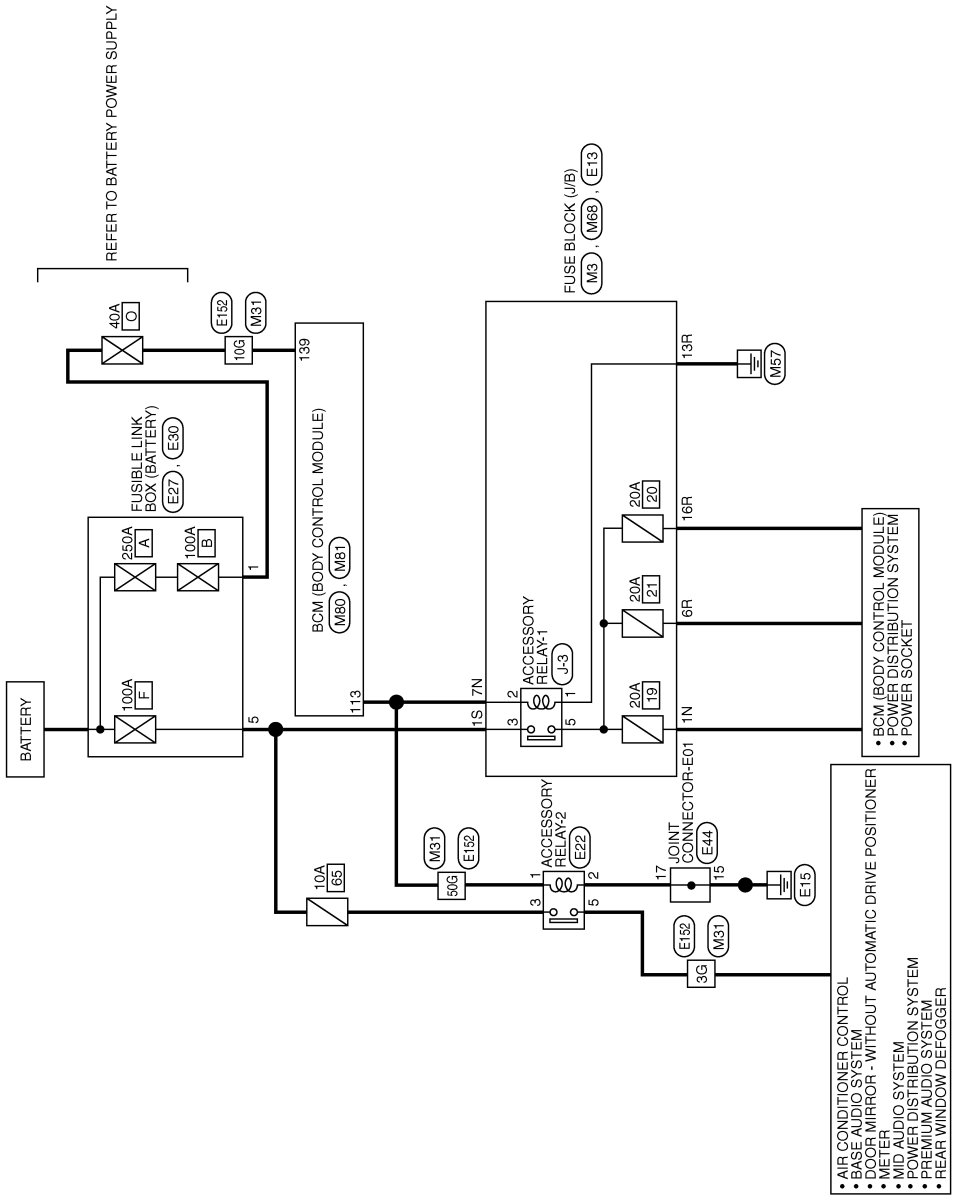
ACCESSORY POWER SUPPLY



ABMWA3000GB

ACCESSORY POWER SUPPLY CONNECTORS

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

H.S.

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

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

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

H.S.

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

11G	12G	13G	14G	15G	16G	17G	18G	19G	20G	21G
22G	23G	24G	25G	26G	27G	28G	29G	30G		

31G	32G	33G	34G	35G	36G	37G	38G	39G	40G	41G
42G	43G	44G	45G	46G	47G	48G	49G	50G		

51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G
62G	63G	64G	65G	66G	67G	68G	69G	70G		

71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
82G	83G	84G	85G	86G	87G	88G	89G	90G		

91G	92G	93G	94G	95G
96G	97G	98G	99G	100G

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

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

H.S.

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

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

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

H.S.

116	115	114	113	112	111	110	109	108	107	106	105
128	127	126	125	124	123	122	121	120	119	118	117

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

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

H.S.

137	138	135	134	133	132	131	130	129
143	142	141	140	139	138			

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

AAMIA1314GB

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

H.S.

Terminal No.	Color of Wire	Signal Name
1	W	–

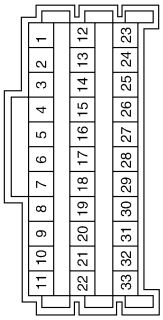
Connector No.	E22
Connector Name	ACCESSORY RELAY-2
Connector Color	BLUE

H.S.

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

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

H.S.



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

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

H.S.

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

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

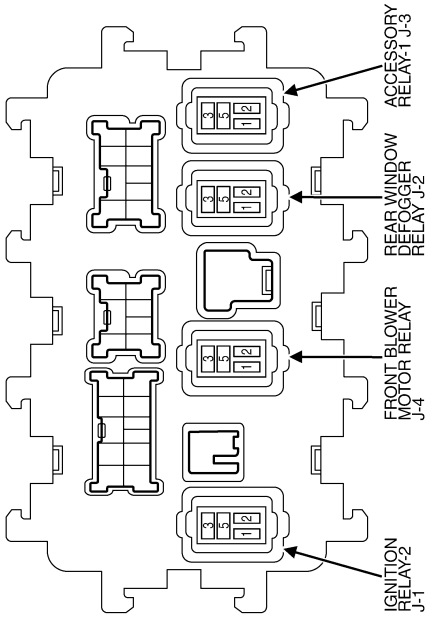
H.S.

Terminal No.	Color of Wire	Signal Name
5	W	–

ABMIA4884GB

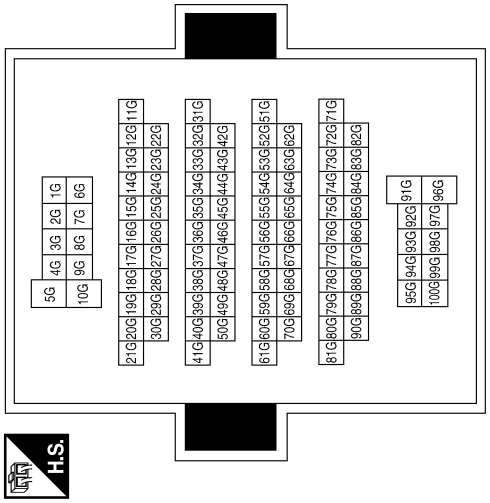
Connector No.	J-3
Connector Name	FUSE BLOCK (J/B) (ACCESSORY RELAY-1)
Connector Color	–

F.S.



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

H.S.



Terminal No.	Color of Wire	Signal Name
3G	P	–
10G	P	–
50G	G	–

ABMIA4885GB

Wiring Diagram - IGNITION POWER SUPPLY -

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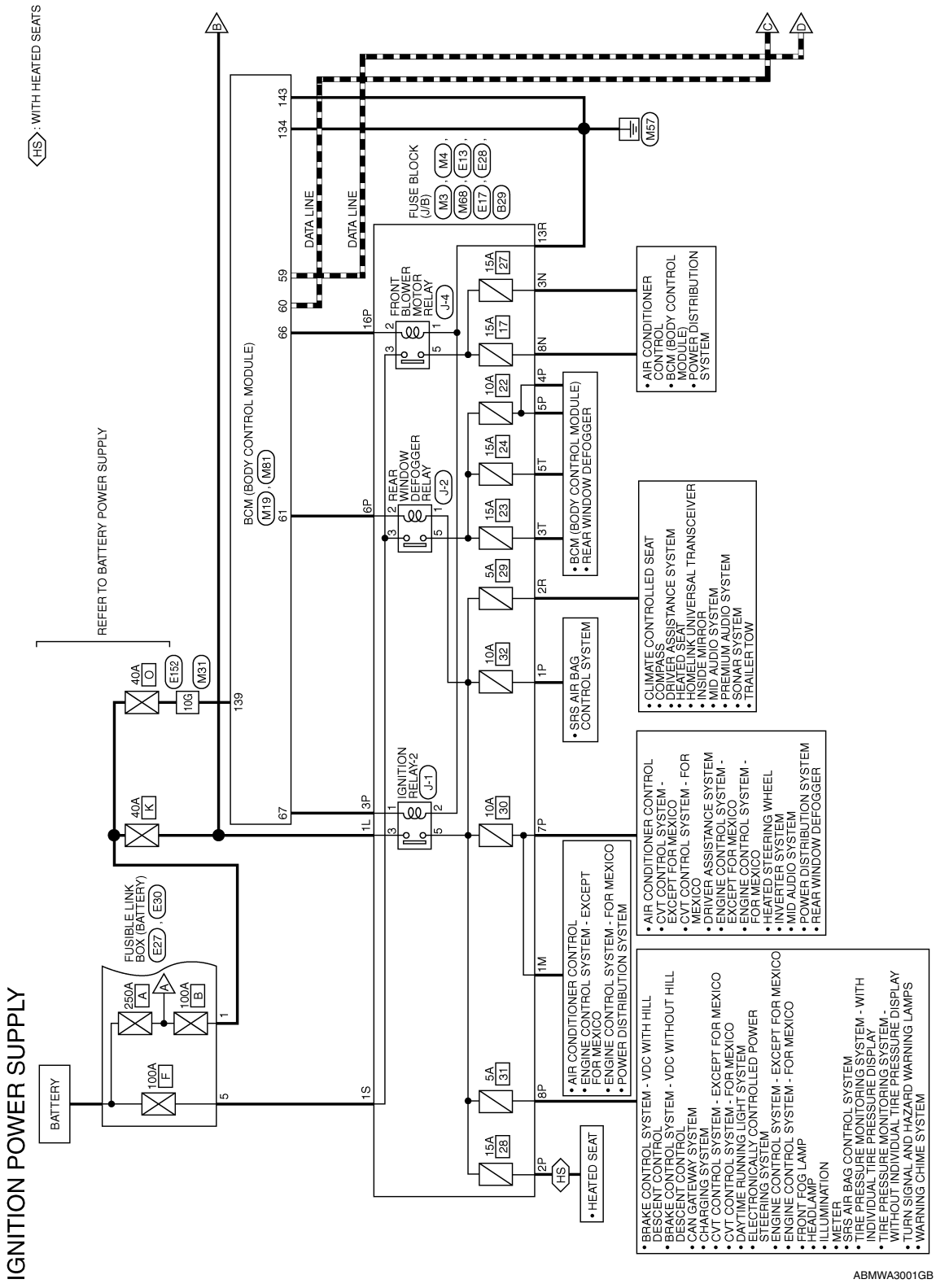
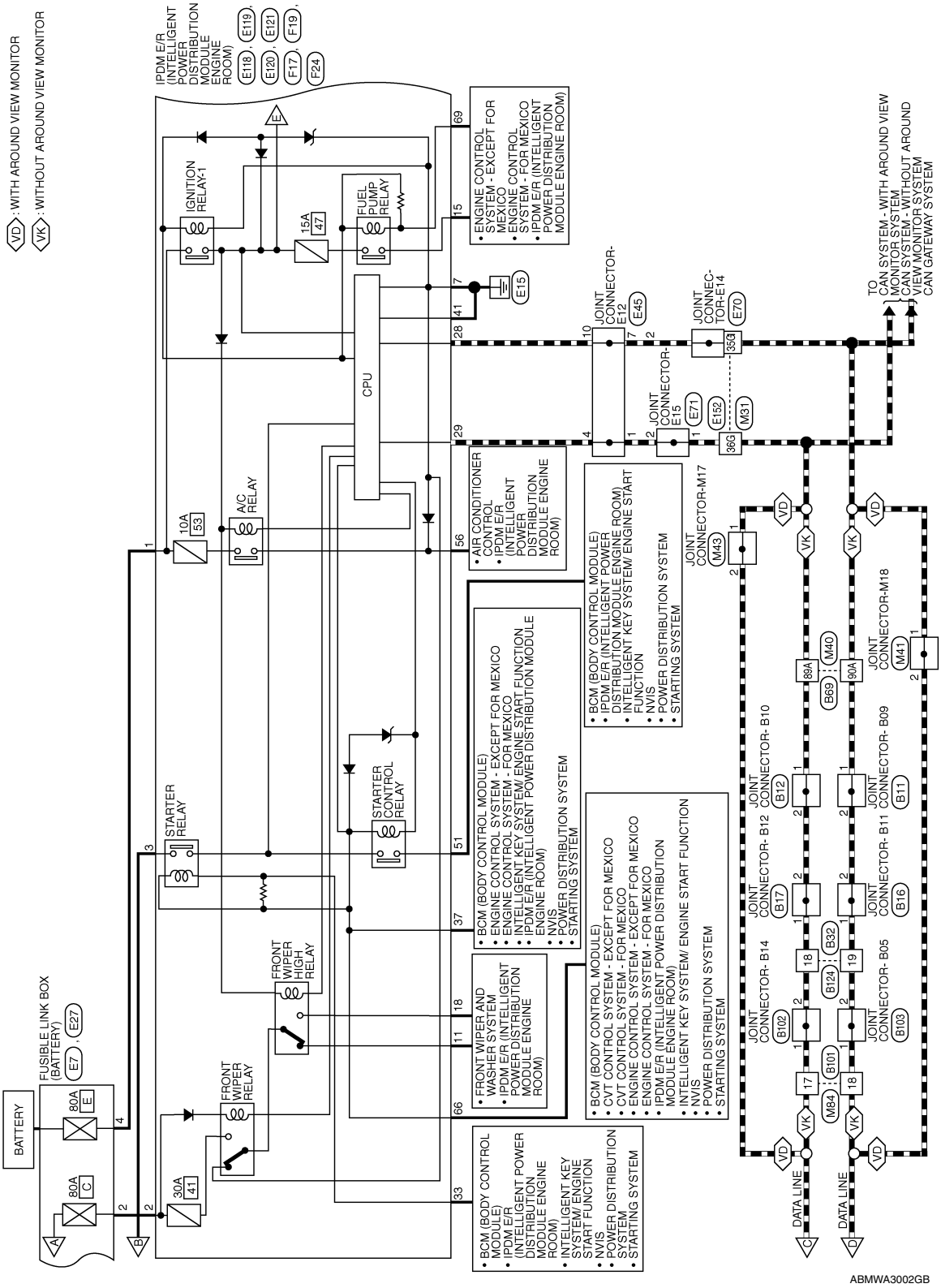
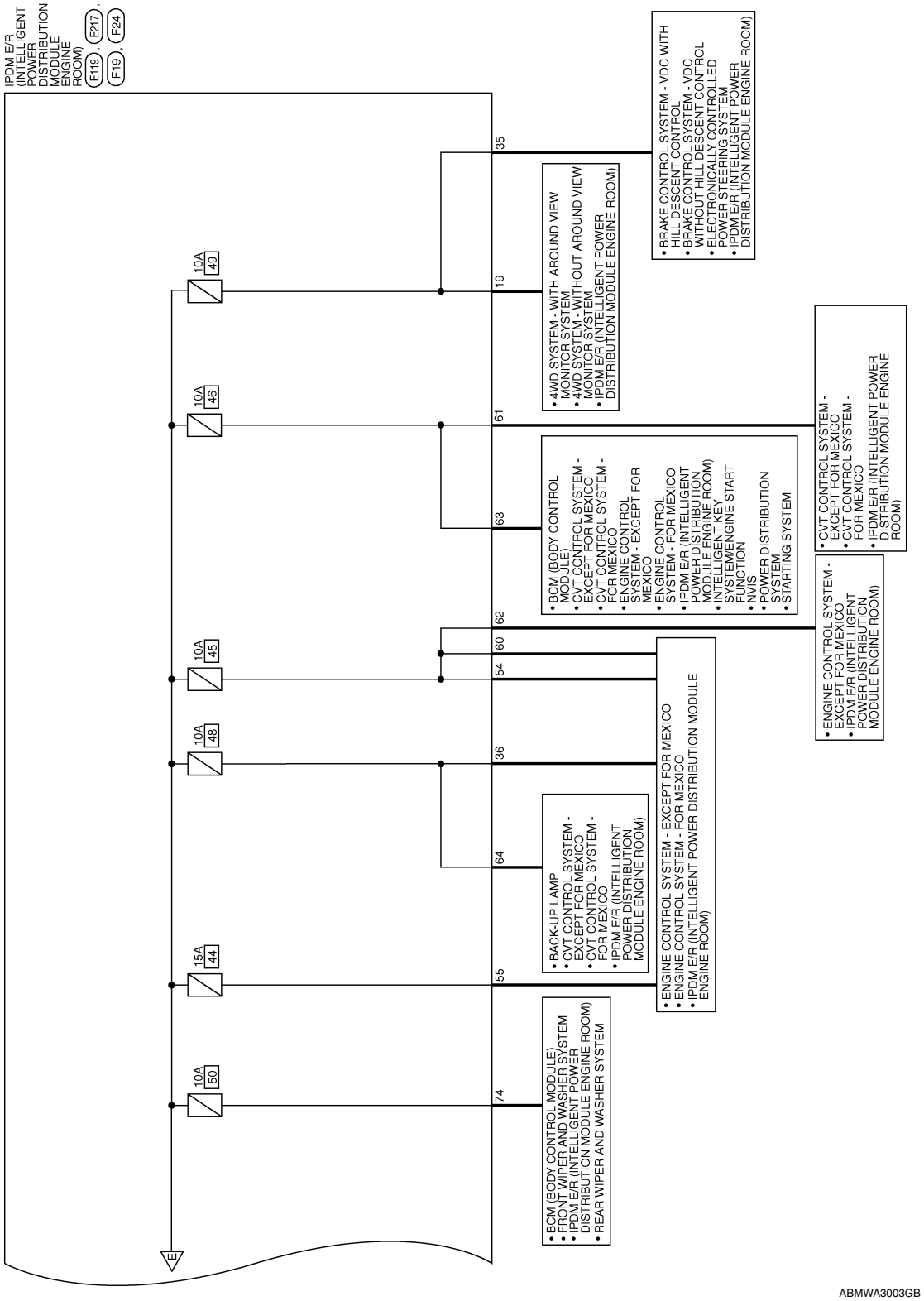



VD : WITH AROUND VIEW MONITOR
VK : WITHOUT AROUND VIEW MONITOR
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E118, E119, E120, E121, F17, F19, F24
IGNITION RELAY-1
15A 47
FUEL PUMP RELAY
CPU
10A 53
A/C RELAY
STARTER RELAY
STARTER CONTROL RELAY
FRONT WIPER HIGH RELAY
FRONT WIPER RELAY
30A 41
BATTERY
FUSIBLE LINK BOX (BATTERY)
E7, E27
80A E
80A C
ENGINE CONTROL SYSTEM - EXCEPT FOR MEXICO
ENGINE CONTROL SYSTEM - FOR MEXICO
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
AIR CONDITIONER CONTROL
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
BCM (BODY CONTROL MODULE)
ENGINE CONTROL SYSTEM - EXCEPT FOR MEXICO
ENGINE CONTROL SYSTEM - FOR MEXICO
INTELLIGENT KEY SYSTEM/ ENGINE START FUNCTION
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
NVIS
POWER DISTRIBUTION SYSTEM
STARTING SYSTEM
FRONT WIPER AND WASHER SYSTEM
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
BCM (BODY CONTROL MODULE)
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
INTELLIGENT KEY SYSTEM/ ENGINE START FUNCTION
NVIS
POWER DISTRIBUTION SYSTEM
STARTING SYSTEM
BCM (BODY CONTROL MODULE)
CVT CONTROL SYSTEM - EXCEPT FOR MEXICO
CVT CONTROL SYSTEM - FOR MEXICO
ENGINE CONTROL SYSTEM - EXCEPT FOR MEXICO
ENGINE CONTROL SYSTEM - FOR MEXICO
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
INTELLIGENT KEY SYSTEM/ ENGINE START FUNCTION
NVIS
POWER DISTRIBUTION SYSTEM
STARTING SYSTEM
BCM (BODY CONTROL MODULE)
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
INTELLIGENT KEY SYSTEM/ ENGINE START FUNCTION
NVIS
POWER DISTRIBUTION SYSTEM
STARTING SYSTEM
JOINT CONNECTOR-E12
JOINT CONNECTOR-E15
JOINT CONNECTOR-E14
JOINT CONNECTOR-M17
JOINT CONNECTOR- B14
JOINT CONNECTOR- B12
JOINT CONNECTOR- B10
JOINT CONNECTOR- B05
JOINT CONNECTOR- B11
JOINT CONNECTOR- B09
JOINT CONNECTOR-M18
DATA LINE
DATA LINE
TO CAN SYSTEM - WITH AROUND VIEW MONITOR SYSTEM
CAN SYSTEM - WITHOUT AROUND VIEW MONITOR SYSTEM
CAN GATEWAY SYSTEM
ABMWA3002GB



ABMWA3003GB

IGNITION POWER SUPPLY CONNECTORS

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

H.S.

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

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

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

H.S.

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

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

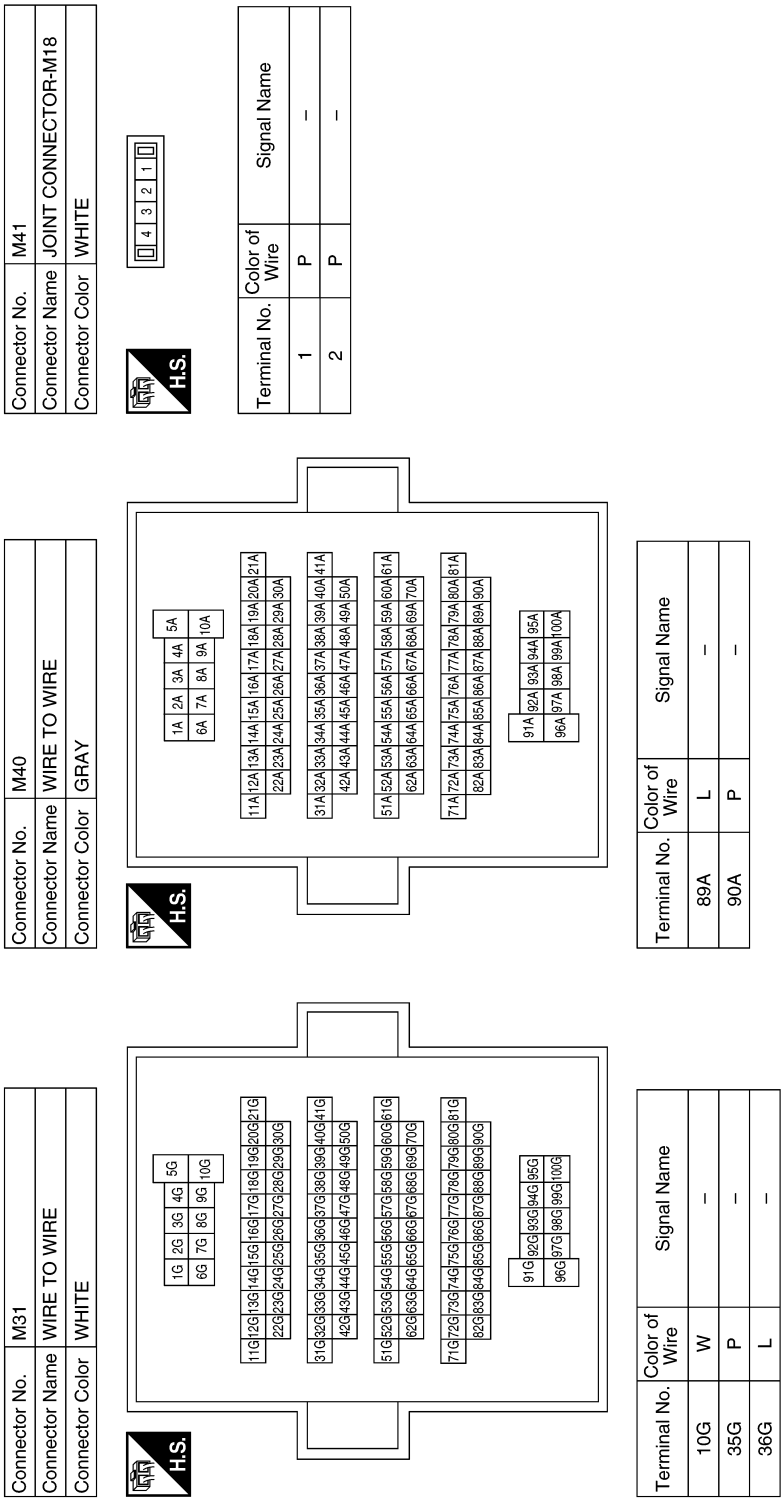
Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Color	BLACK

H.S.

60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41
80	79	78	77	76	75	74	73	72	71	70	69	68	67	66	65	64	63	62	61

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

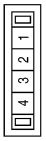
ABMIA4886GB



ABMIA4887GB

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

H.S.



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

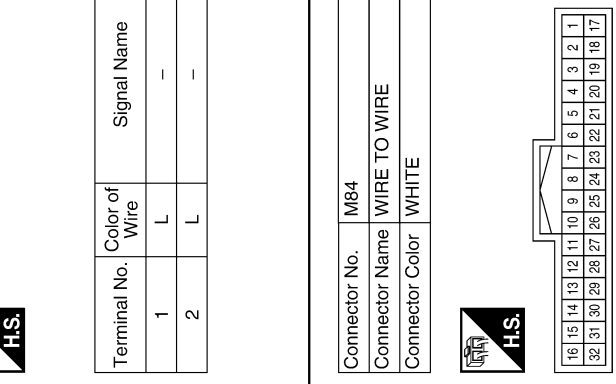
Connector No.	M68
Connector Name	FUSE BLOCK (J/B)
Connector Color	BROWN

H.S.

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

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

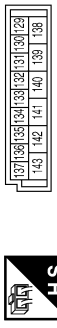
H.S.



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

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

H.S.



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

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

H.S.

Terminal No.	Color of Wire	Signal Name
4	R	–

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

H.S.

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

AAMIA1319GB

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

H.S.

1L

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

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

H.S.

1 2

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

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

H.S.

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

Terminal No.	Color of Wire	Signal Name
1M	R	–

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

H.S.

5

Terminal No.	Color of Wire	Signal Name
5	W	–

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

H.S.

12 11 10 9 8 7 6 5 4 3 2 1

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

Connector No.	E70
Connector Name	JOINT CONNECTOR-E14
Connector Color	BLACK

H.S.

6 5 4 3 2 1

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

AAMIA1320GB

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

H.S.

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

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

H.S.

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

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

H.S.

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

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

H.S.

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

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

H.S.

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

ABMIA6915GB

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

H.S.

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

21G	20G	19G	18G	17G	16G	15G	14G	13G	12G	11G
30G	29G	28G	27G	26G	25G	24G	23G	22G		

41G	40G	39G	38G	37G	36G	35G	34G	33G	32G	31G
50G	49G	48G	47G	46G	45G	44G	43G	42G		

61G	60G	59G	58G	57G	56G	55G	54G	53G	52G	51G
70G	69G	68G	67G	66G	65G	64G	63G	62G		

81G	80G	79G	78G	77G	76G	75G	74G	73G	72G	71G
90G	89G	88G	87G	86G	85G	84G	83G	82G		

95G	94G	93G	92G	91G
100G	99G	98G	97G	96G

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

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

H.S.

74		75	76
77	78	79	80	81

Terminal No.	Color of Wire	Signal Name
74	R	WASH MTR

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

H.S.

62	63	64	65	66	67
68	69	70	71	72	73

Terminal No.	Color of Wire	Signal Name
62	W	ECM IGN SW
63	L	INHIBIT SW
64	LG	START IG EGI
66	G	NP SW
69	W	FPR

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

H.S.

52	53		54	55
56	57	58	59	60	61

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

Connector No.	F17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color	BLACK

H.S.

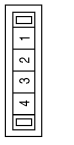
51

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

ABMIA6916GB

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

H.S.



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

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

H.S.

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

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

H.S.

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

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

H.S.

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

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

H.S.

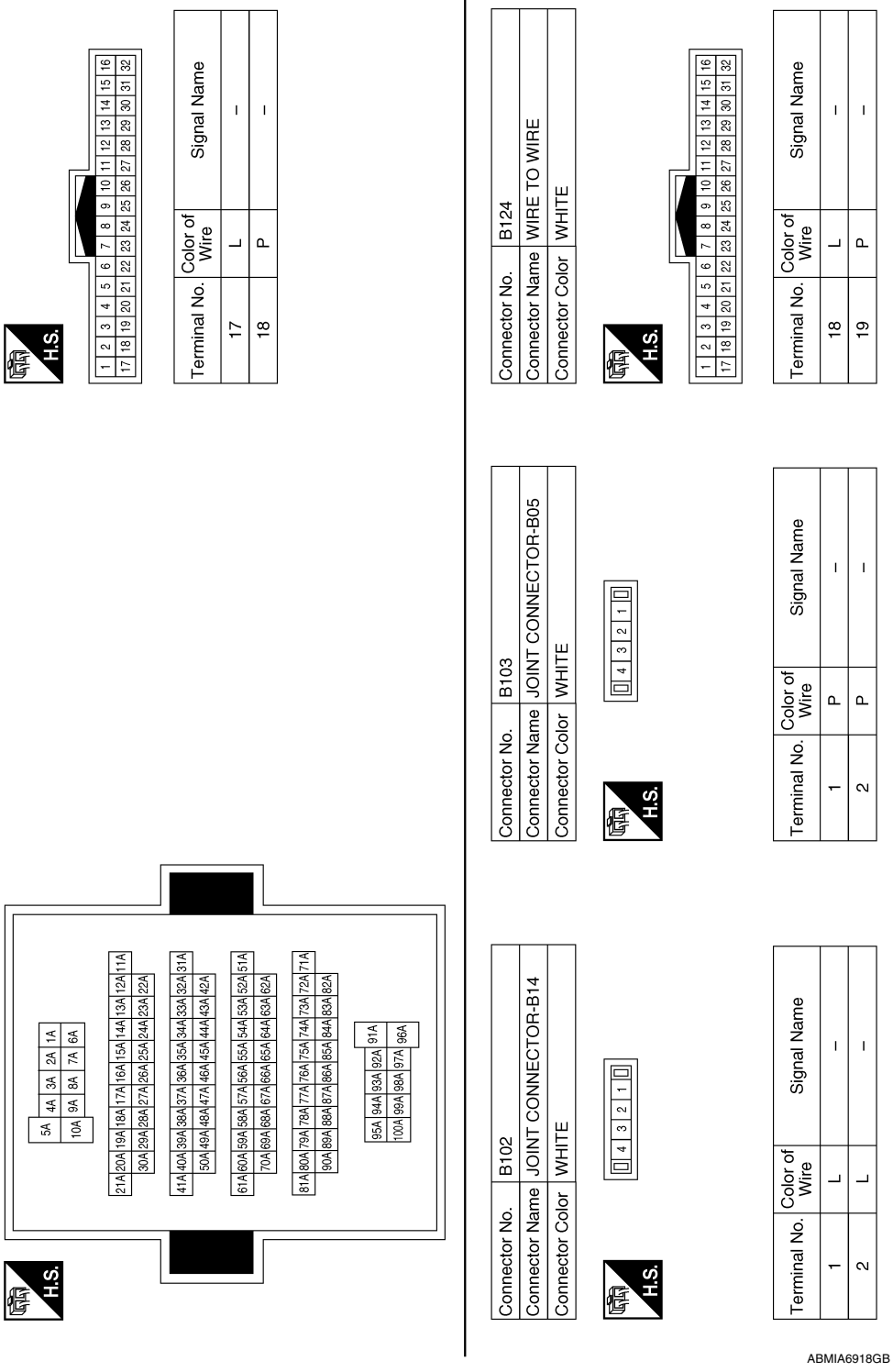
Terminal No.	Color of Wire	Signal Name
3T	W	–
5T	G	–

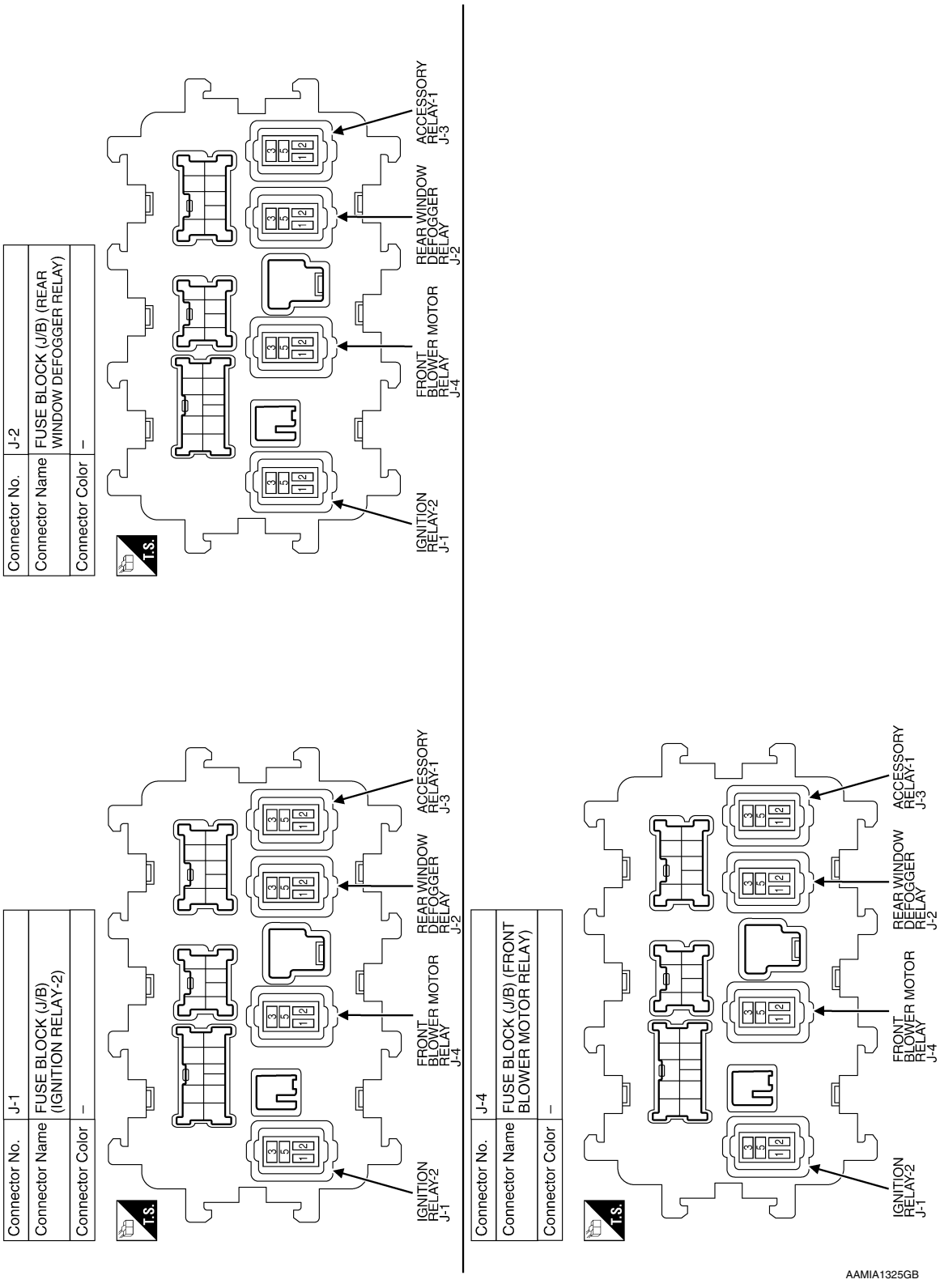
Connector No.	B32
Connector Name	WIRE TO WIRE
Connector Color	WHITE

H.S.

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

ABMIA6917GB


Connector No. B101
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Terminal No. Color of Wire Signal Name
17 L –
18 P –
Connector No. B124
Connector Name WIRE TO WIRE
Connector Color WHITE
H.S.
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
Terminal No. Color of Wire Signal Name
18 L –
19 P –
Connector No. B69
Connector Name WIRE TO WIRE
Connector Color GRAY
H.S.
5A 4A 3A 2A 1A
10A 9A 8A 7A 6A
21A 20A 19A 18A 17A 16A 15A 14A 13A 12A 11A
30A 29A 28A 27A 26A 25A 24A 23A 22A
41A 40A 39A 38A 37A 36A 35A 34A 33A 32A 31A
50A 49A 48A 47A 46A 45A 44A 43A 42A
61A 60A 59A 58A 57A 56A 55A 54A 53A 52A 51A
70A 69A 68A 67A 66A 65A 64A 63A 62A
81A 80A 79A 78A 77A 76A 75A 74A 73A 72A 71A
90A 89A 88A 87A 86A 85A 84A 83A 82A
95A 94A 93A 92A 91A
100A 99A 98A 97A 96A
Terminal No. Color of Wire Signal Name
89A L –
90A P –
Connector No. B103
Connector Name JOINT CONNECTOR-B05
Connector Color WHITE
H.S.
4 3 2 1
Terminal No. Color of Wire Signal Name
1 P –
2 P –
Connector No. B102
Connector Name JOINT CONNECTOR-B14
Connector Color WHITE
H.S.
4 3 2 1
Terminal No. Color of Wire Signal Name
1 L –
2 L –
ABMIA6918GB

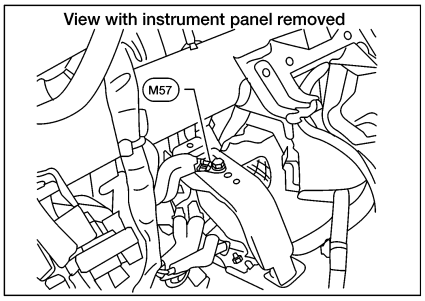

Connector No. J-2
Connector Name FUSE BLOCK (J/B) (REAR WINDOW DEFOGGER RELAY)
Connector Color –
T.S.
IGNITION RELAY-2 J-1
FRONT BLOWER MOTOR RELAY J-4
REAR WINDOW DEFOGGER RELAY J-2
ACCESSORY RELAY-1 J-3
Connector No. J-1
Connector Name FUSE BLOCK (J/B) (IGNITION RELAY-2)
Connector Color –
T.S.
IGNITION RELAY-2 J-1
FRONT BLOWER MOTOR RELAY J-4
REAR WINDOW DEFOGGER RELAY J-2
ACCESSORY RELAY-1 J-3
Connector No. J-4
Connector Name FUSE BLOCK (J/B) (FRONT BLOWER MOTOR RELAY)
Connector Color –
T.S.
IGNITION RELAY-2 J-1
FRONT BLOWER MOTOR RELAY J-4
REAR WINDOW DEFOGGER RELAY J-2
ACCESSORY RELAY-1 J-3
AAMIA1325GB

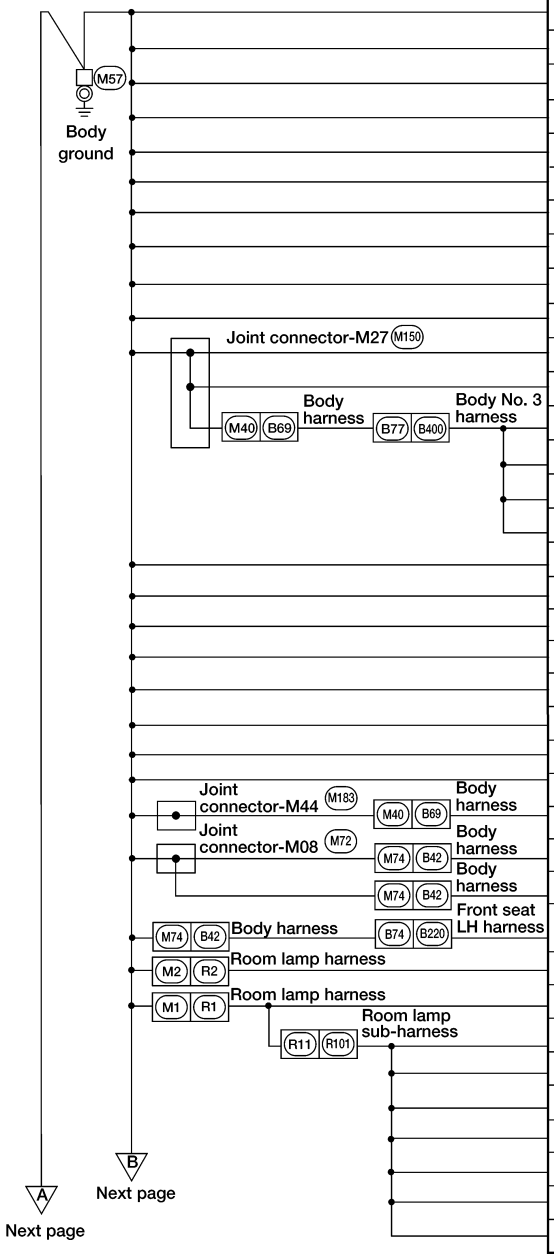
GROUND

Ground Distribution

INFOID:0000000011151110

MAIN HARNESS





CONNECTOR NUMBER	CONNECT TO
M16	ADP steering switch
M22	Data link connector (Terminal No. 4)
M22	Data link connector (Terminal No. 5)
M24	Combination meter (Terminal No. 1)
M24	Combination meter (Terminal No. 2)
M28	Combination switch
M48	Heated steering wheel switch (Terminal No. 2)
M48	Heated steering wheel switch (Terminal No. 6)
M54	Steering angle sensor
M68	Fuse block (J/B)
M70	Sonar control unit (Terminal No. 15)
M70	Sonar control unit shield
B455	Rear sonar sensor LH outer shield
B456	Rear sonar sensor RH outer shield
B457	Rear sonar sensor LH inner shield
B458	Rear sonar sensor RH inner shield
M71	VDC OFF switch
M81	BCM (body control module) (Terminal No. 134)
M81	BCM (body control module) (Terminal No. 143)
M88	A/C 120V outlet main switch
M98	A/C and AV switch assembly
M117	PTC heater (Terminal No. 2)
M185	Automatic back door main switch
M186	Automatic back door switch
B56	Automatic back door control module shield
B82	Inverter unit shield
B82	Inverter unit (Terminal No. 8)
B205	Climate controlled seat control unit (driver seat) (Terminal No. 30) (with rear entertainment system)
R4	Moonroof motor assembly (Terminal No. 10)
R10	Auto anti-dazzling inside mirror
R102	Vanity lamp RH
R103	Vanity lamp LH
R104	Cargo lamp
R106	Personal lamps 2nd row
R107	Front room/map lamp assembly
R108	Moonroof switch
R110	Sunshade switch

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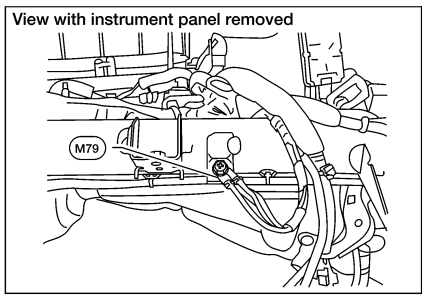

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B

M167 D2 Front door LH harness

D19 D52 Front door LH sub-harness

CONNECTOR NUMBER	CONNECT TO
D4	Door mirror LH (without around view monitor system)
D14	Front door lock assembly LH
D15	Front outside handle assembly LH
D22	Door mirror remote control switch (with automatic drive positioner)
D23	Main power window and door lock/unlock switch (Terminal No. 1) (with left front only auto down)
D25	Main power window and door lock/unlock switch (Terminal No. 1) (with left and right front auto up/down)
D27	Door mirror remote control switch (without automatic drive positioner)
D28	Door mirror LH (with around view monitor system)
D60	Seat memory switch

Preceding page

A

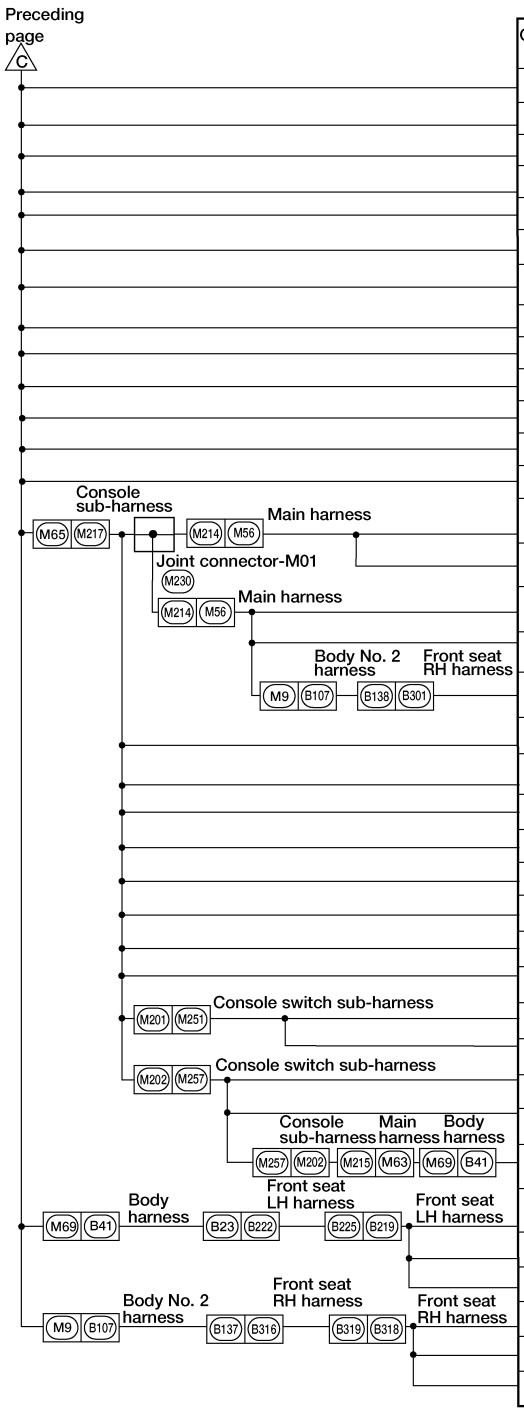
M79 Body ground

CONNECTOR NUMBER	CONNECT TO
M6	Tow mode switch
M17	Push-button ignition switch
M26	Hazard switch
M34	Automatic drive positioner control unit (Terminal No. 30) (without automatic drive positioner)
M35	Air bag diagnosis sensor unit (Terminal No. 2)
M50	A/C auto amp. (Terminal No. 2)
M50	A/C auto amp. (Terminal No. 22)
M52	Combination switch (spiral cable)
M59	Glove box lamp
M76	Electric brake (pre-wiring)

C

Next page

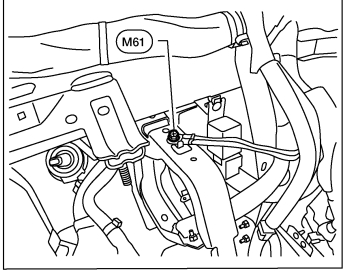
ABMIA6920GB



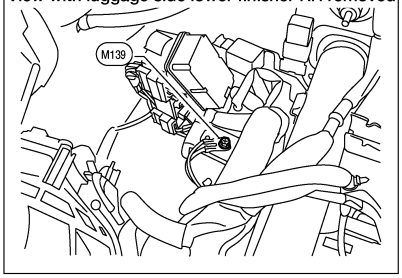
CONNECTOR NUMBER	CONNECT TO
M78	CVT shift selector (Terminal No. 2)
M78	CVT shift selector (Terminal No. 4)
M92	Display unit (Terminal No. 12) (with premium audio system)
M93	Display unit (Terminal No. 1) (with mid audio system)
M117	PTC heater (Terminal No. 4)
M125	AV control unit (Terminal No. 52) (with mid audio system)
M133	Warning system switch
M146	A/C switch assembly
M147	Front passenger air bag OFF indicator
M148	A/C display unit
M160	Yaw rate/side/decel G sensor
M161	AV control unit (Terminal No. 20) (with premium audio system)
M192	Display unit (Terminal No. 3) (with base audio system)
M137	AV control unit (shield wire) (Terminal No. 90) (with mid audio system)
M164	AV control unit (shield wire) (Terminal No. 94) (with premium audio system)
M124	AV control unit (shield wire) (Terminal No. 25) (with mid audio system)
M162	AV control unit (shield wire) (Terminal No. 37) (with premium audio system)
B302	Headrest display unit (passenger seat) (pre-wire) shield
M203	Climate controlled seat switch (driver seat)
M206	Climate controlled seat switch (passenger seat)
M207	Front power socket LH
M212	4WD shift switch
M220	Front heated seat switch LH
M221	Front heated seat switch RH
M228	Front power socket RH (for cigarette lighter)
M231	Console power socket
M252	2nd row heated seat switch LH
M253	2nd row heated seat switch RH
M254	Rear auxiliary input jacks
M258	Rear air control (Terminal No. 1)
B25	Video distributor (shield wire)
B223	Headrest display unit (driver seat) (Terminal No. 12)
B223	Headrest display unit (driver seat) (Terminal No. 31)
B223	Headrest display unit (driver seat) (Terminal No. 32)
B317	Headrest display unit (passenger seat) (Terminal No. 28)
B317	Headrest display unit (passenger seat) (Terminal No. 31)
B317	Headrest display unit (passenger seat) (Terminal No. 32)

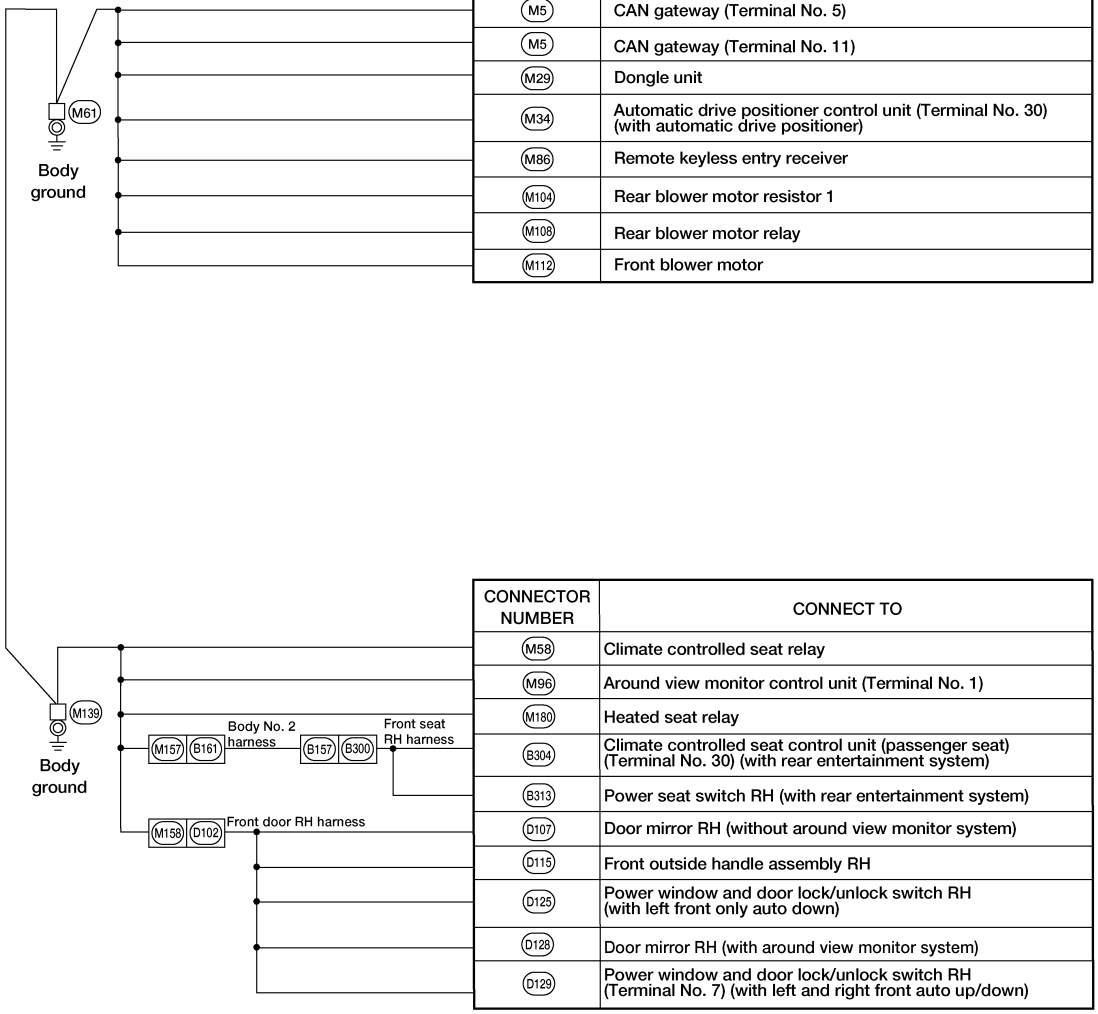
ABMIA6921GB

View with instrument panel removed



View with luggage side lower finisher RH removed





CONNECTOR NUMBER	CONNECT TO
M5	CAN gateway (Terminal No. 5)
M5	CAN gateway (Terminal No. 11)
M29	Dongle unit
M34	Automatic drive positioner control unit (Terminal No. 30) (with automatic drive positioner)
M86	Remote keyless entry receiver
M104	Rear blower motor resistor 1
M108	Rear blower motor relay
M112	Front blower motor

CONNECTOR NUMBER	CONNECT TO
M58	Climate controlled seat relay
M96	Around view monitor control unit (Terminal No. 1)
M180	Heated seat relay
B304	Climate controlled seat control unit (passenger seat) (Terminal No. 30) (with rear entertainment system)
B313	Power seat switch RH (with rear entertainment system)
D107	Door mirror RH (without around view monitor system)
D115	Front outside handle assembly RH
D125	Power window and door lock/unlock switch RH (with left front only auto down)
D128	Door mirror RH (with around view monitor system)
D129	Power window and door lock/unlock switch RH (Terminal No. 7) (with left and right front auto up/down)

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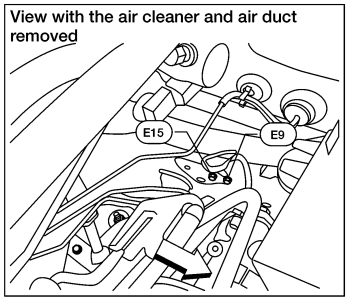
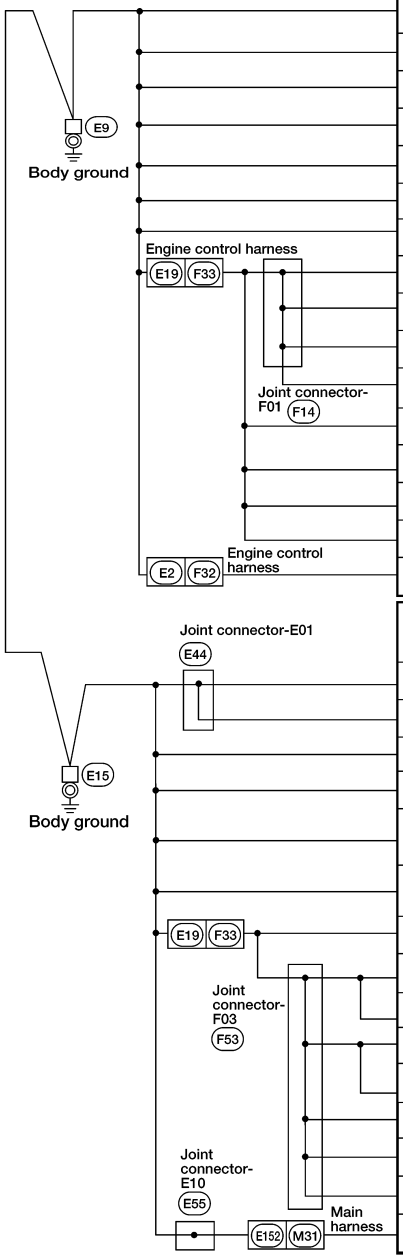
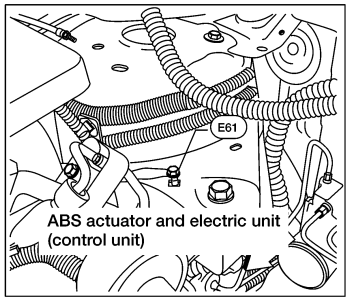


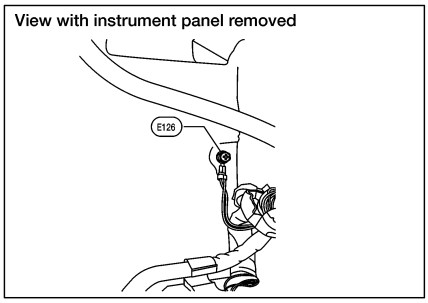


CONNECTOR NUMBER	CONNECT TO
E16	ECM (Terminal No. 123) (for Mexico)
E16	ECM (Terminal No. 124) (for Mexico)
E16	ECM (Terminal No. 127) (for Mexico)
E16	ECM (Terminal No. 128) (for Mexico)
E32	ECM (Terminal No. 147) (except for Mexico)
E32	ECM (Terminal No. 149) (except for Mexico)
E32	ECM (Terminal No. 152) (except for Mexico)
F5	Air fuel ratio (A/F) sensor 1 (bank 1) shield
F50	Electric throttle control actuator shield
F51	ECM (Terminal No. 12) (for Mexico)
F65	Air fuel ratio (A/F) sensor 1 (bank 2) shield
F51	ECM (Terminal No. 16) (for Mexico)
F78	ECM (Terminal No. 10) (except for Mexico)
F78	ECM (Terminal No. 55) (except for Mexico)
F79	ECM (Terminal No. 105) (except for Mexico)
F79	ECM (Terminal No. 110) (except for Mexico)

CONNECTOR NUMBER	CONNECT TO
E22	Accessory relay-2
E23	Front wiper motor
E21	Brake fluid level switch
E39	Stop lamp relay
E119	IPDM E/R (intelligent power distribution module engine room) (Terminal No. 41)
E121	IPDM E/R (intelligent power distribution module engine room) (Terminal No. 7)
F3	A/C compressor
F15	TCM (transmission control module) (Terminal No. 41) (for Mexico)
F89	TCM (transmission control module) (Terminal No. 41) (except for Mexico)
F15	TCM (transmission control module) (Terminal No. 42) (for Mexico)
F89	TCM (transmission control module) (Terminal No. 42) (except for Mexico)
F23	Output speed sensor
F25	Primary speed sensor
F29	Input speed sensor
M187	Circuit breaker shield

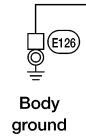
ABMIA6922GB





CONNECTOR NUMBER	CONNECT TO
E63	Power steering control module (Terminal No. 2)

CONNECTOR NUMBER	CONNECT TO
E125	ABS actuator and electric unit (control unit) (Terminal No. 1)
E125	ABS actuator and electric unit (control unit) (Terminal No. 2)



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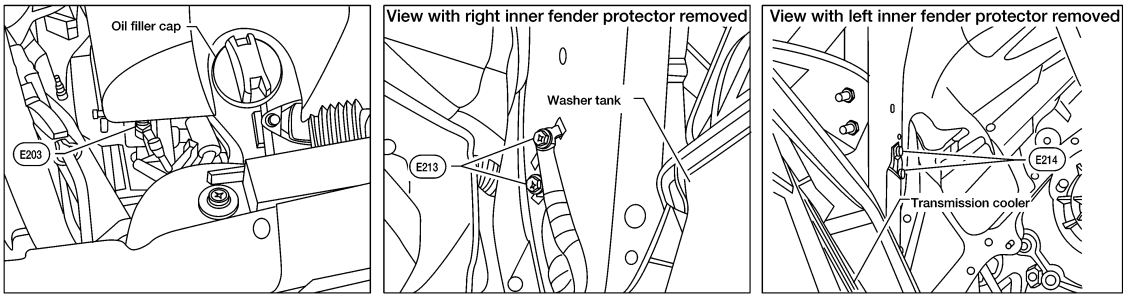
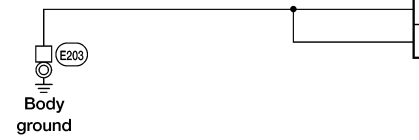
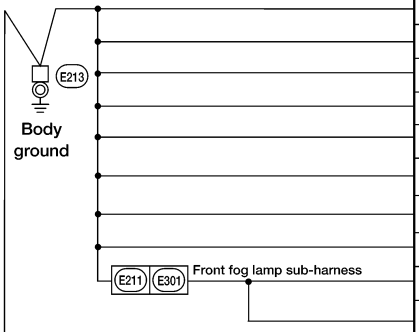
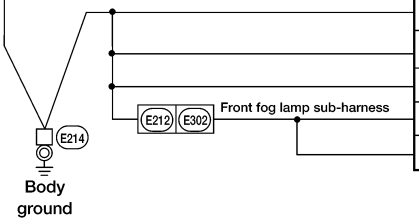




CONNECTOR NUMBER	CONNECT TO
E204	Generator (Terminal No. 5)
E204	Generator (Terminal No. 6)

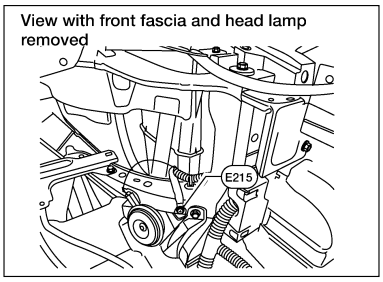


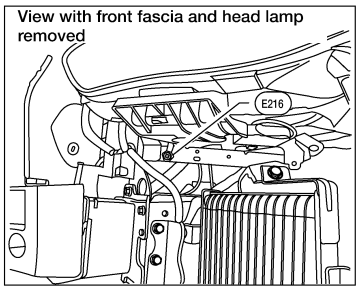
CONNECTOR NUMBER	CONNECT TO
E205	Hood switch
E208	Washer fluid level switch
E221	Horn (high)
E223	Horn (low)
E237	Front combination lamp RH
E238	Front combination lamp RH
E240	Front combination lamp RH
E241	Front combination lamp RH
E304	Front fog lamp RH (with daytime running light system)
E306	Front fog lamp RH (without daytime running light system)

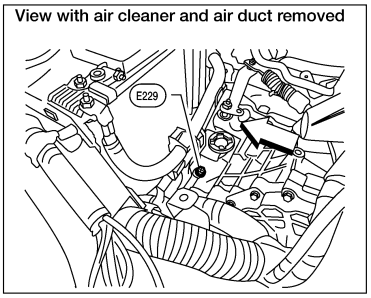


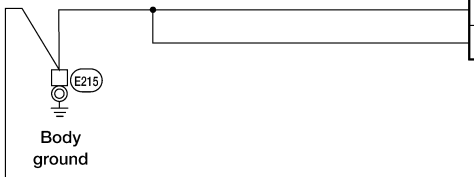
CONNECTOR NUMBER	CONNECT TO
E232	Front combination lamp LH
E233	Front combination lamp LH
E236	Front combination lamp LH
E303	Front fog lamp LH (with daytime running light system)
E305	Front fog lamp LH (without daytime running light system)

ABMIA6923GB

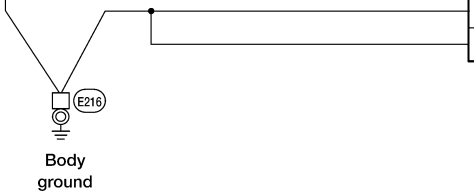




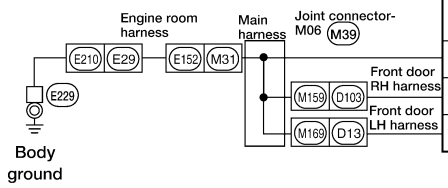




CONNECTOR NUMBER	CONNECT TO
E235	Front combination lamp LH
E239	Front combination lamp RH



CONNECTOR NUMBER	CONNECT TO
E225	Cooling fan control module (Terminal No. 1)
E234	Front combination lamp LH



CONNECTOR NUMBER	CONNECT TO
M35	Air bag diagnosis sensor unit (shield wire) (Terminal No. 22)
D126	Front door satellite sensor RH shield
D26	Front door satellite sensor LH shield

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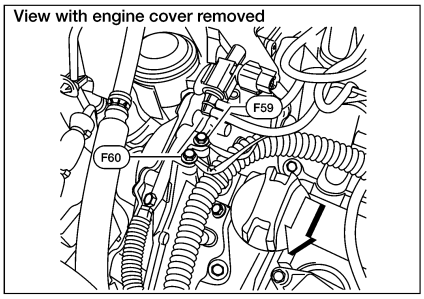
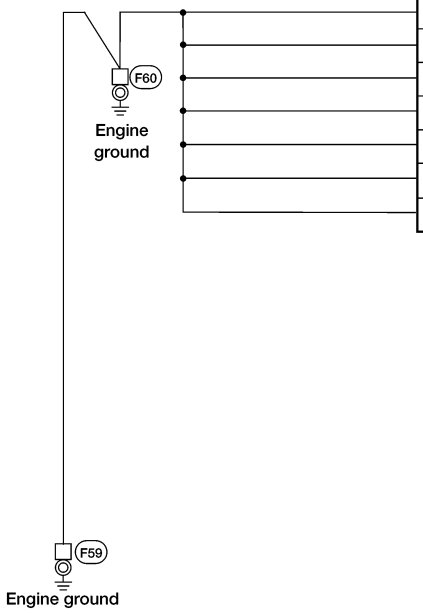
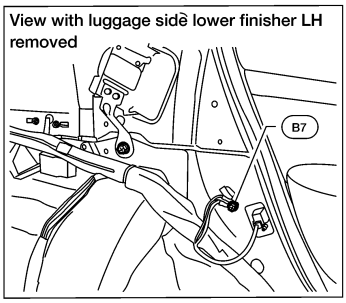
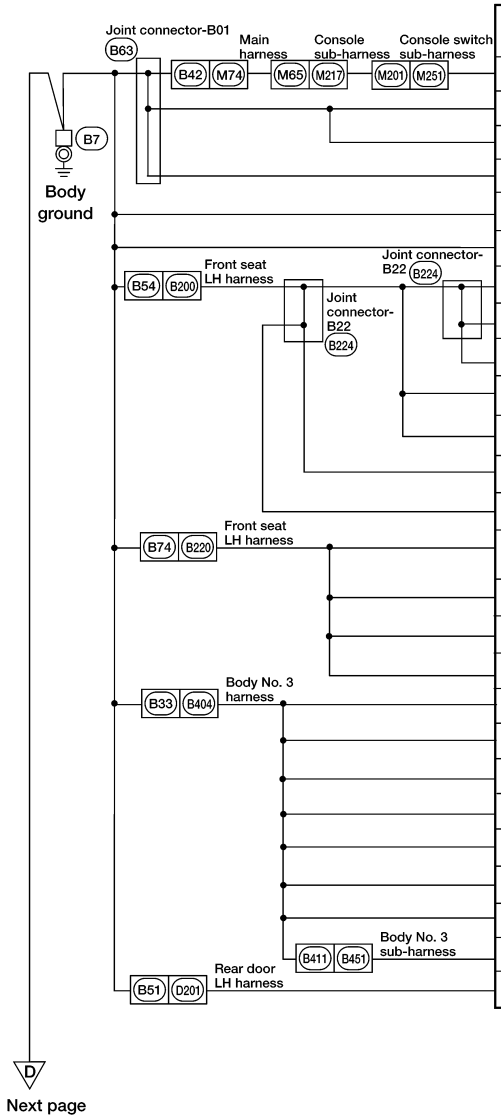




CONNECTOR NUMBER	CONNECT TO
F8	Ignition coil No. 2 (with power transistor)
F9	Ignition coil No. 4 (with power transistor)
F10	Ignition coil No. 6 (with power transistor)
F21	Condenser-1
F47	Ignition coil No. 1 (with power transistor)
F48	Ignition coil No. 3 (with power transistor)
F49	Ignition coil No. 5 (with power transistor)

ABMIA6924GB





CONNECTOR NUMBER	CONNECT TO
M256	A/C 120V outlet (shield wire)
B52	Condenser-2
B72	Fuel level sensor unit and fuel pump
B79	2nd row seat heater LH
B67	4WD control unit (Terminal No. 10)
B67	4WD control unit (Terminal No. 11)
B207	Lifting motor LH (rear)
B211	Sliding motor LH
B218	Lifting motor LH (front)
B208	Power seat switch LH (with automatic drive positioner)
B217	Reclining motor LH
B210	Driver seat control unit (Terminal No. 39)
B214	Lumbar support switch
B205	Climate controlled seat control unit (driver seat) (Terminal No. 30) (without rear entertainment system)
B208	Power seat switch LH (without automatic drive positioner)
B216	Front seat heater (driver seat)
B221	Seat belt buckle switch (driver seat)
B402	Back door warning chime
B406	Rear combination lamp LH
B407	Rear combination lamp RH
B408	Rear combination lamp LH
B409	Rear combination lamp RH
B412	Rear combination lamp LH
B413	Rear combination lamp RH
B453	Trailer
D208	Rear power window switch LH

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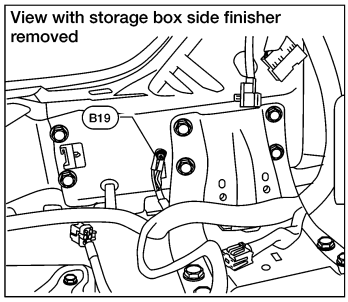

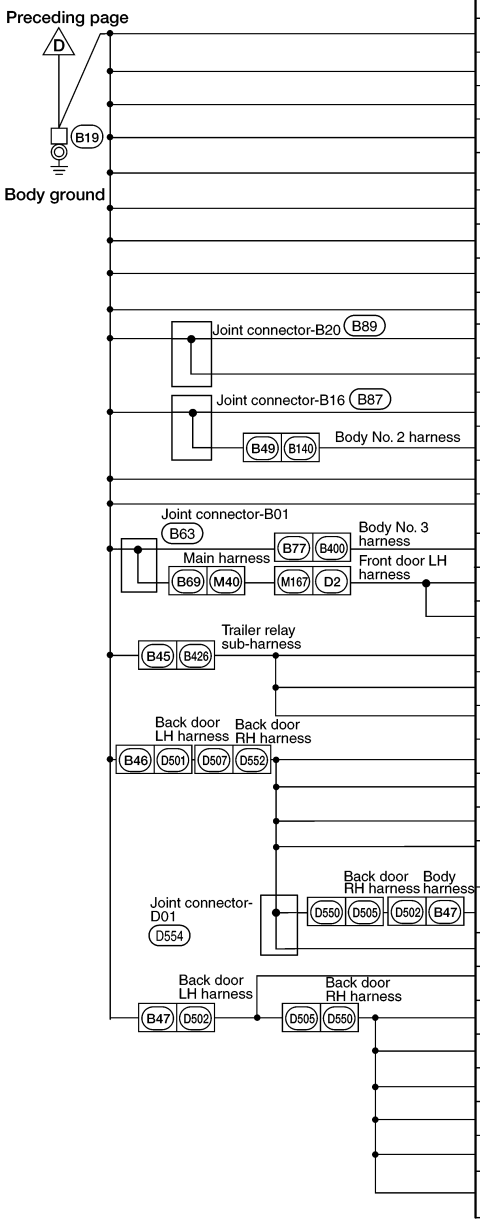

CONNECTOR NUMBER	CONNECT TO
B2	Satellite radio tuner (Terminal No. 35)
B3	Bluetooth® control unit (Terminal No. 4)
B3	Bluetooth® control unit (Terminal No. 20)
B3	Bluetooth® control unit (Terminal No. 22)
B3	Bluetooth® control unit (Terminal No. 24)
B3	Bluetooth® control unit (Terminal No. 27)
B24	Video distributor (Terminal No. 1)
B24	Video distributor (Terminal No. 3)
B55	Automatic back door control module (Terminal No. 4)
B56	Automatic back door control module (Terminal No. 32)
B56	Automatic back door control module shield
B70	Spindle unit LH (shield wire)
B162	Spindle unit RH (shield wire)
B81	Rear cargo power socket
B85	Sunshade motor assembly
B416	Side radar LH
D21	Blind spot warning indicator LH
D21	Blind spot warning indicator LH shield
B427	Trailer tow relay 1
B428	Trailer tow relay 2
B431	Trailer back-up relay
D557	Back door lock assembly (with power back door)
D559	Back door opener switch (Terminal No. 2)
D559	Back door opener switch (Terminal No. 3)
D565	Back door lock assembly (Terminal No. 4) (without power back door)
B56	Automatic back door control module (shield wire) (Terminal No. 28)
D566	Automatic back door close switch
D503	High-mounted stop lamp
D553	Rear wiper motor
D561	License plate lamp LH
D562	License plate lamp RH
D563	Back-up lamp RH
D564	Back-up lamp LH
D565	Back door lock assembly (Terminal No. 2) (without power back door)

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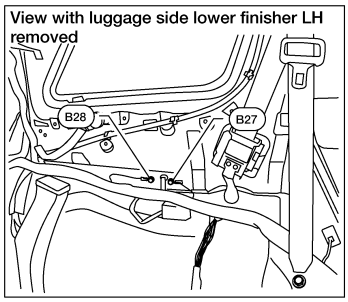

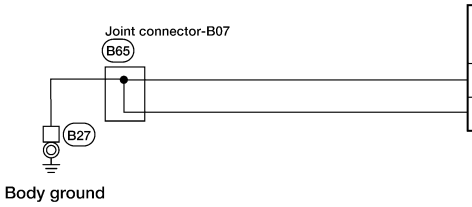

CONNECTOR NUMBER	CONNECT TO
B9	Air bag diagnosis sensor unit (shield wire) (Terminal No. 55)
B71	Rear side air bag satellite sensor LH shield

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

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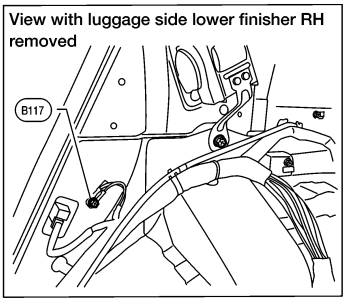
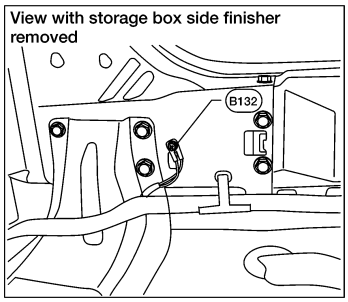
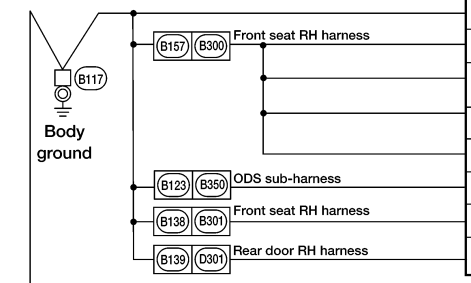
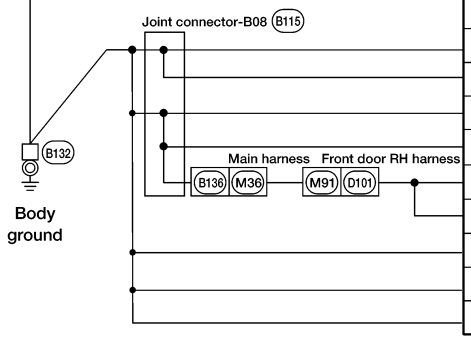






CONNECTOR NUMBER	CONNECT TO
B105	2nd row seat heater RH
B303	Seat belt buckle switch (passenger seat)
B304	Climate controlled seat control unit (passenger seat) (Terminal No. 30) (without rear entertainment system)
B313	Power seat switch RH (without rear entertainment system)
B315	Front seat heater (passenger seat)
B356	Occupant classification system control unit (Terminal No. 9)
B302	Headrest display unit (passenger seat) (pre-wire)
D308	Rear power window switch RH



CONNECTOR NUMBER	CONNECT TO
B104	ADAS control unit shield
B104	ADAS control unit (Terminal No. 15)
B109	Side radar RH (Terminal No. 3)
B109	Side radar RH (Terminal No. 8)
D111	Blind spot warning indicator RH
D111	Blind spot warning indicator RH shield
B129	BOSE speaker amp. (Terminal No. 7)
B129	BOSE speaker amp. (Terminal No. 12)
B133	Rear blower motor resistor 2

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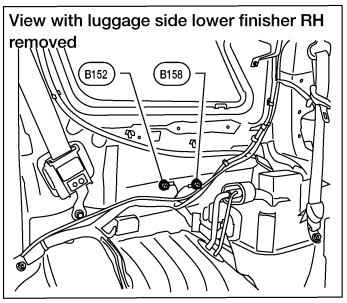
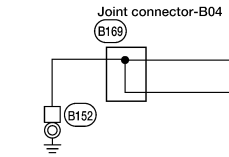
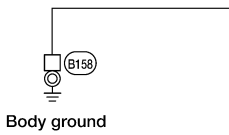




CONNECTOR NUMBER	CONNECT TO
B113	Air bag diagnosis sensor unit (shield wire) (Terminal No. 56)
B170	Rear side air bag satellite sensor RH shield



CONNECT TO	
B128	RH side curtain air bag module shield

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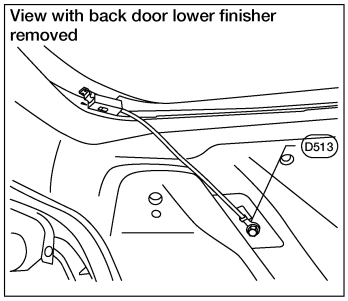
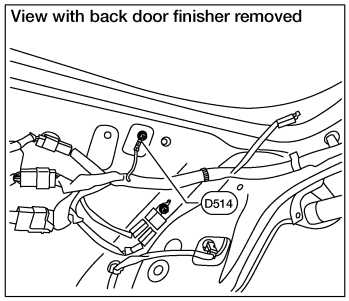
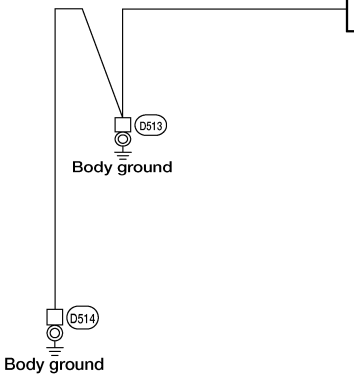




CONNECTOR NUMBER	CONNECT TO
D525	Rear window defogger



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HARNESS

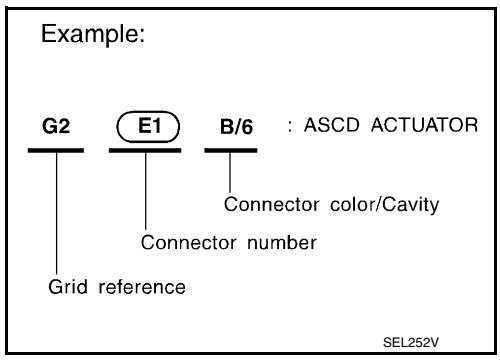
Harness Layout

INFOID:0000000011151111

HOW TO READ HARNESS LAYOUT

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

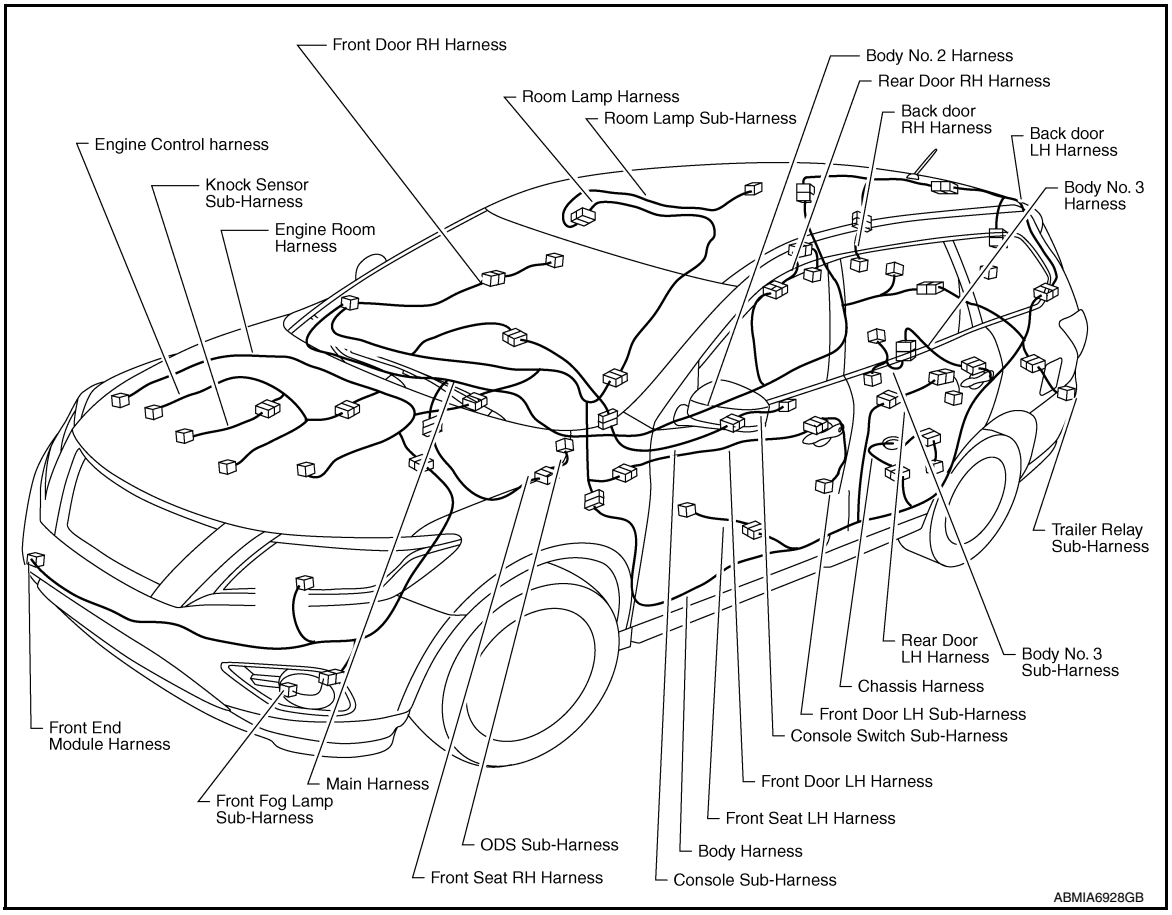
- Main Harness 1, Main Harness 2, Console Sub-harness and Console Switch Sub-harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Front End Module Harness and Front Fog Lamp Sub-harness
- Engine Control Harness, Knock Sensor Sub-harness
- Body Harness, Front Seat LH Harness,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

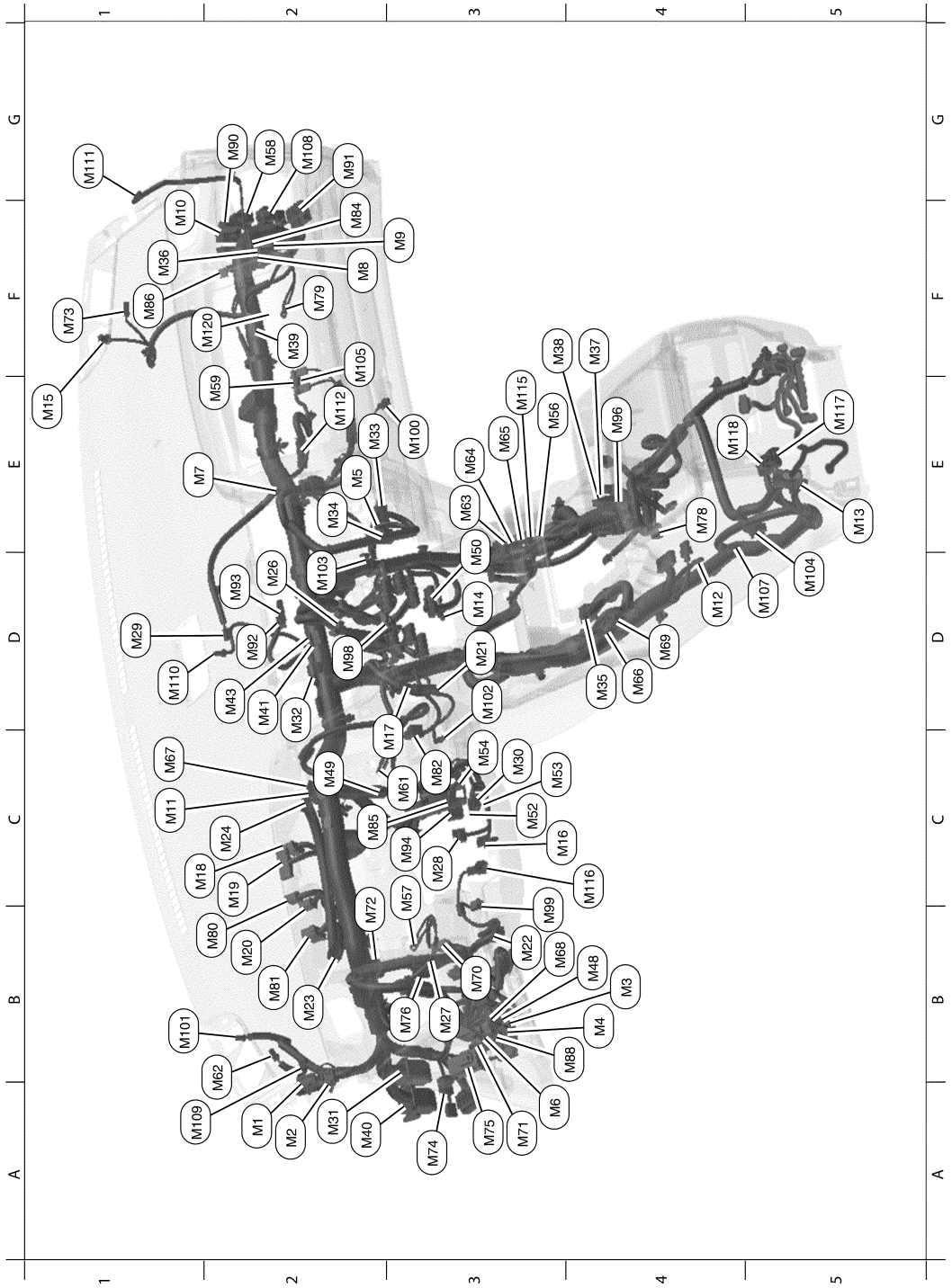


To use the grid reference

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

OUTLINE





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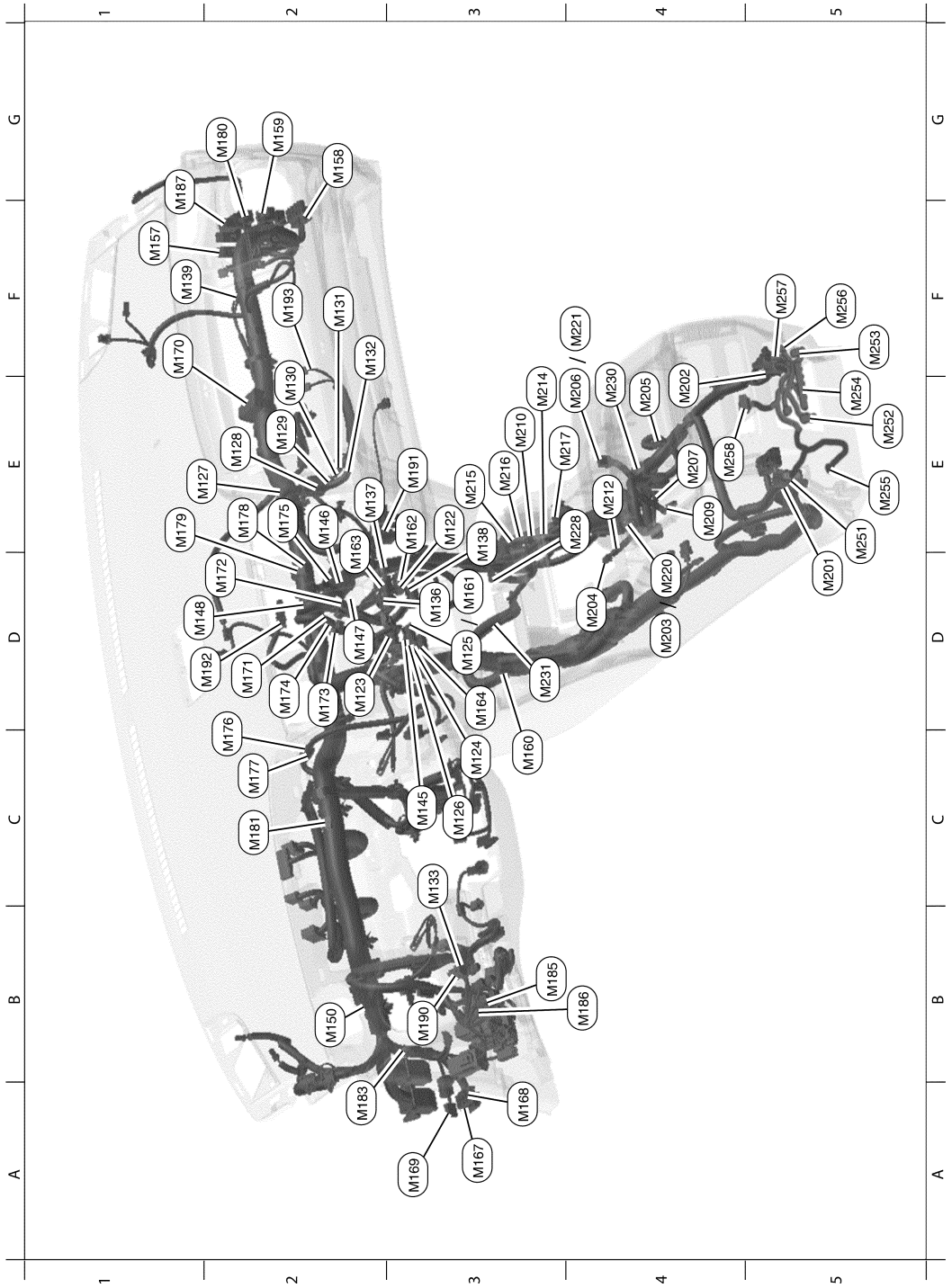
A2	M1	W/24	: To R1	C3	M61	—	: Body ground
A2	M2	W/6	: To R2	B2	M62	BR/2	: Instrument panel tweeter LH
B4	M3	W/8	: Fuse block (J/B)	E3	M63	W/40	: To M215
B4	M4	W/16	: Fuse block (J/B)	E3	M64	W/6	: To M216
E2	M5	W/12	: CAN gateway	E3	M65	W/16	: To M217

A3	M6	GR/4	: Tow mode switch	D4	M66	W/24	: To B6
E1	M7	W/3	: To M127	C1	M67	W/4	: Joint connector-M04
F2	M8	GR/1	: To B106	B3	M68	BR/16	: Fuse block (J/B)
F3	M9	W/24	: To B107	D4	M69	W/32	: To B41
F1	M10	BR/16	: To B111	B3	M70	W/24	: Sonar control unit
C1	M11	W/4	: Joint connector-M03	A3	M71	B/8	: VDC OFF switch
D4	M12	W/3	: Rear shut-off door motor	B2	M72	W/6	: Joint connector-M08
E5	M13	W/3	: Mode door motor (Rear)	F1	M73	BR/2	: Instrument panel tweeter RH
D3	M14	GR/2	: Inside key antenna (Instrument center)	A3	M74	BR/12	: To B42
E1	M15	W/3	: Optical sensor	A3	M75	W/3	: To E36
C3	M16	GR/6	: ADP steering switch	B3	M76	W/6	: Electric brake (Pre-wiring)
C3	M17	W/8	: Push-button ignition switch	E4	M78	W/12	: CVT shift selector
C1	M18	G/40	: BCM (Body control module)	F2	M79	—	: Body ground
C2	M19	B/40	: BCM (Body control module)	B2	M80	B/24	: BCM (Body control module)
B2	M20	GR/24	: BCM (Body control module)	B2	M81	W/15	: BCM (Body control module)
D3	M21	W/3	: NATS antenna amp.	C3	M82	W/2	: Circuit breaker-2
B3	M22	W/16	: Data link connector	F2	M84	W/32	: To B101
B2	M23	W/12	: Combination meter	C2	M85	W/6	: Tilt motor
C2	M24	W/40	: Combination meter	F1	M86	B/4	: Remote keyless entry receiver
D2	M26	W/4	: Hazard switch	B4	M88	B/10	: A/C 120V outlet main switch
B3	M27	W/8	: To M55	G2	M90	L/4	: Heated steering relay
C3	M28	W/16	: Combination switch	G2	M91	W/32	: To D101
D1	M29	W/4	: Dongle unit	D2	M92	W/24	: Display unit (With premium audio system)
C3	M30	GR/8	: Combination switch (Spiral cable)	D2	M93	W/24	: Display unit (With mid audio system)
A2	M31	SMJ	: To E152	C3	M94	BR/6	: Telescopic motor
D2	M32	B/2	: Diode-3	E4	M96	W/40	: Around view monitor control unit
E2	M33	W/24	: Automatic drive positioner control unit	D2	M98	W/16	: A/C and AV switch assembly
E2	M34	W/6	: Automatic drive positioner control unit	B3	M99	B/2	: Foot lamp LH
D4	M35	Y/28	: Air bag diagnosis sensor unit	E3	M100	B/2	: Foot lamp RH
F1	M36	W/40	: To B136	B1	M101	B/2	: Sunload sensor
F4	M37	W/4	: Joint connector-M28	D3	M102	W/2	: In-vehicle sensor
F3	M38	W/4	: Joint connector-M29	D2	M103	W/2	: Intake sensor
F2	M39	W/4	: Joint connector-M06	D5	M104	W/4	: Rear blower motor resistor 1
A2	M40	SMJ	: To B69	F2	M105	Y/4	: Front passenger air bag module
D2	M41	W/4	: Joint connector-M18	D5	M107	W/2	: Rear blower motor 1
D2	M43	W/4	: Joint connector-M17	G2	M108	BR/6	: Rear blower motor relay
B4	M48	L/8	: Heated steering wheel switch	A1	M109	BR/2	: Front tweeter LH
C2	M49	W/4	: To M83	D1	M110	BR/2	: Center speaker
E3	M50	W/40	: A/C auto amp.	G1	M111	BR/2	: Front tweeter RH
C3	M52	W/2	: Combination switch (Spiral cable)	E2	M112	W/6	: Front blower motor
C3	M53	Y/6	: Combination switch (Spiral cable)	E3	M115	GR/7	: To M210
C3	M54	W/8	: Steering angle sensor	C4	M116	W/8	: Calibration control
E3	M56	W/24	: To M214	E5	M117	W/2	: PTC heater
C3	M57	—	: Body ground	E4	M118	W/3	: PTC heater

G2	M58	BR/6	: Climate controlled seat relay	F2	M120	W/4	: Joint connector-M21
E2	M59	B/2	: Glove box lamp				

MAIN HARNESS 2



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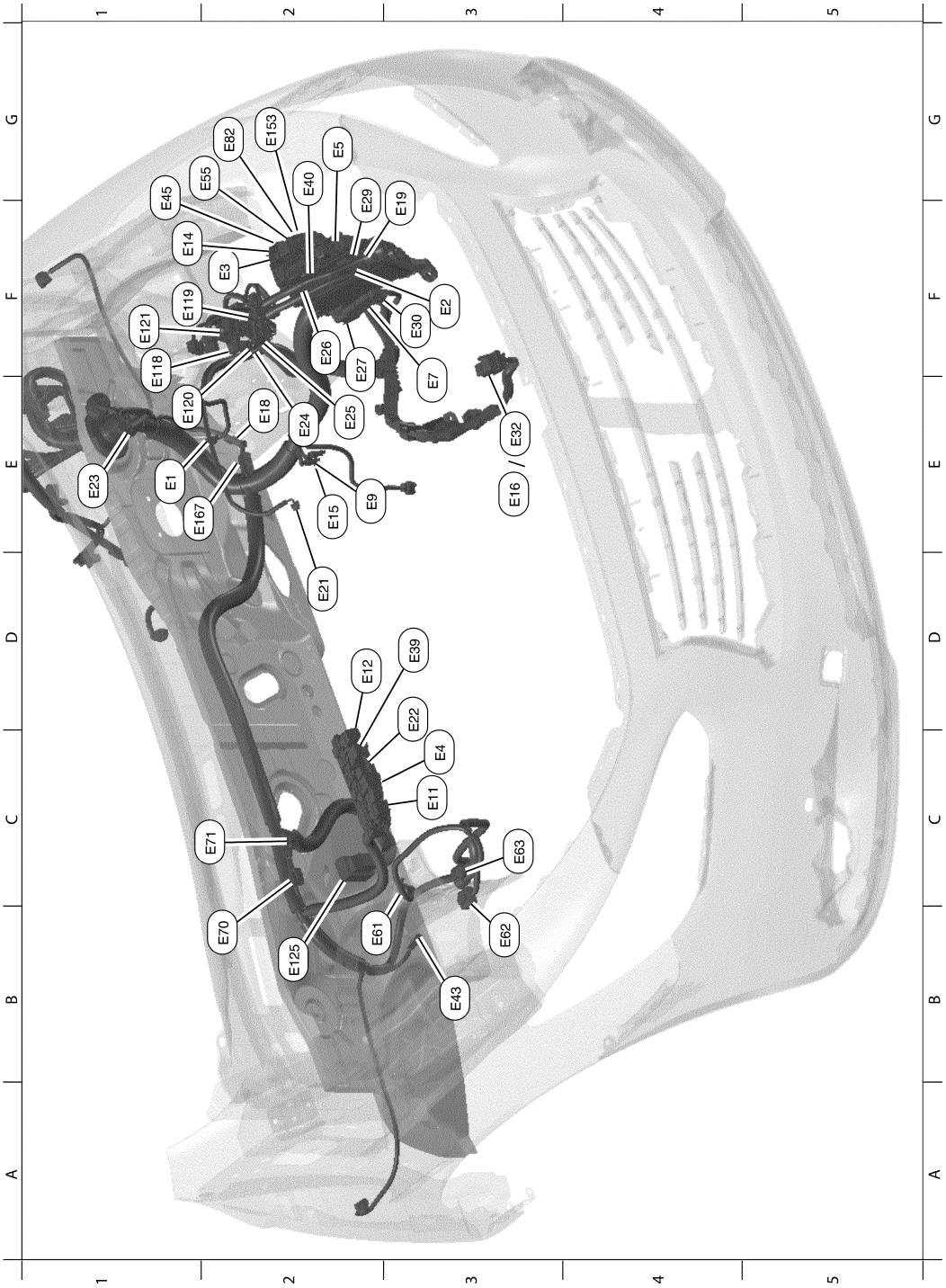
E3	M122	W/12	: Audio unit	E1	M179	W/4	: Joint connector-M59
D2	M123	W/20	: Audio unit	G2	M180	BR/6	: Heated seat relay
C3	M124	W/32	: AV control unit (With mid audio system)	C2	M181	W/4	: Joint connector-M36

D3	M125	W/20	: AV control unit (With mid audio system)	A2	M183	W/4	: Joint connector-M44
C3	M126	L/5	: AV Control unit (With premium audio system)	B3	M185	W/10	: Automatic back door main switch
E1	M127	W/3	: To M7	B4	M186	G/8	: Automatic back door switch
E2	M128	W/3	: Intake door motor	G1	M187	W/2	: Circuit breaker-1
E2	M129	W/3	: Mode door motor (Front)	B3	M190	W/12	: Accessory prewire LH
E2	M130	W/3	: Air mix door motor driver side	E3	M191	W/12	: Accessory prewire RH
F2	M131	W/3	: Air mix door motor passenger side	D2	M192	W/12	: Display unit (With base audio system)
F2	M132	W/3	: Air mix door motor (Rear)	F2	M193	Y/2	: Front passenger air bag module
C3	M133	W/8	: Warning system switch	Console sub-harness			
D3	M136	W/24	: AV control unit (With mid audio system)	D5	M201	W/16	: To M251
E2	M137	W/16	: AV control unit (With mid audio system)	E4	M202	W/40	: To M257
E3	M138	W/12	: AV control unit (With mid audio system)	D4	M203	W/10	: Climate controlled seat switch (Driver seat)
F1	M139	—	: Body ground	D4	M204	BR/2	: CVT shift selector indicator lamp
C3	M145	L/5	: AV control unit (With mid audio system)	E4	M205	W/8	: Front auxiliary input jacks
E2	M146	W/12	: A/C switch assembly	E4	M206	BR/8	: Climate controlled seat switch (Passenger seat)
D2	M147	W/3	: Front passenger air bag off indicator	E4	M207	GR/3	: Front power socket LH
D1	M148	B/10	: A/C display unit	E4	M209	G/5	: USB interface
B2	M150	W/33	: Joint connector-M27	E3	M210	GR/7	: To M115
F1	M157	W/16	: To B161	E4	M212	W/8	: 4WD shift switch
G2	M158	W/10	: To D102	E3	M214	W/24	: To M56
G2	M159	Y/4	: To D103	E3	M215	W/40	: To M63
C3	M160	B/6	: Yaw rate/side/decel G sensor	E3	M216	W/6	: To M64
D3	M161	W/20	: AV control unit (With premium audio system)	E3	M217	W/16	: To M65
E3	M162	W/28	: AV control unit (With premium audio system)	D4	M220	W/6	: Front heated seat switch LH
E2	M163	W/32	: AV control unit (With premium audio system)	F4	M221	BR/6	: Front heated seat switch RH
D3	M164	W/40	: AV control unit (With premium audio system)	E4	M228	GR/3	: Front power socket RH (For cigarette lighter)
A3	M167	W/16	: To D2	E4	M230	GR/6	: Joint connector-M01
A3	M168	W/40	: To D3	D3	M231	GR/3	: Console power socket
A3	M169	Y/4	: To D103	Console switch sub-harness			
F1	M170	W/33	: Joint connector-M09	E5	M251	W/16	: To M201
D2	M171	W/4	: Joint connector-M10	E5	M252	W/6	: 2nd row heated seat switch LH
D2	M172	W/4	: Joint connector-M11	F5	M253	BR/6	: 2nd row heated seat switch RH
D2	M173	W/4	: Joint connector-M12	E5	M254	W/40	: Rear auxiliary input jacks
D2	M174	W/4	: Joint connector-M13	E5	M255	GR/2	: Inside key antenna (Console)
E2	M175	W/33	: Joint connector-M22	F5	M256	W/4	: A/C 120V outlet
C2	M176	W/4	: Joint connector-M56	F5	M257	W/40	: To M202
C2	M177	W/4	: Joint connector-M57	E4	M258	W/12	: Rear air control
E2	M178	W/4	: Joint connector-M58				



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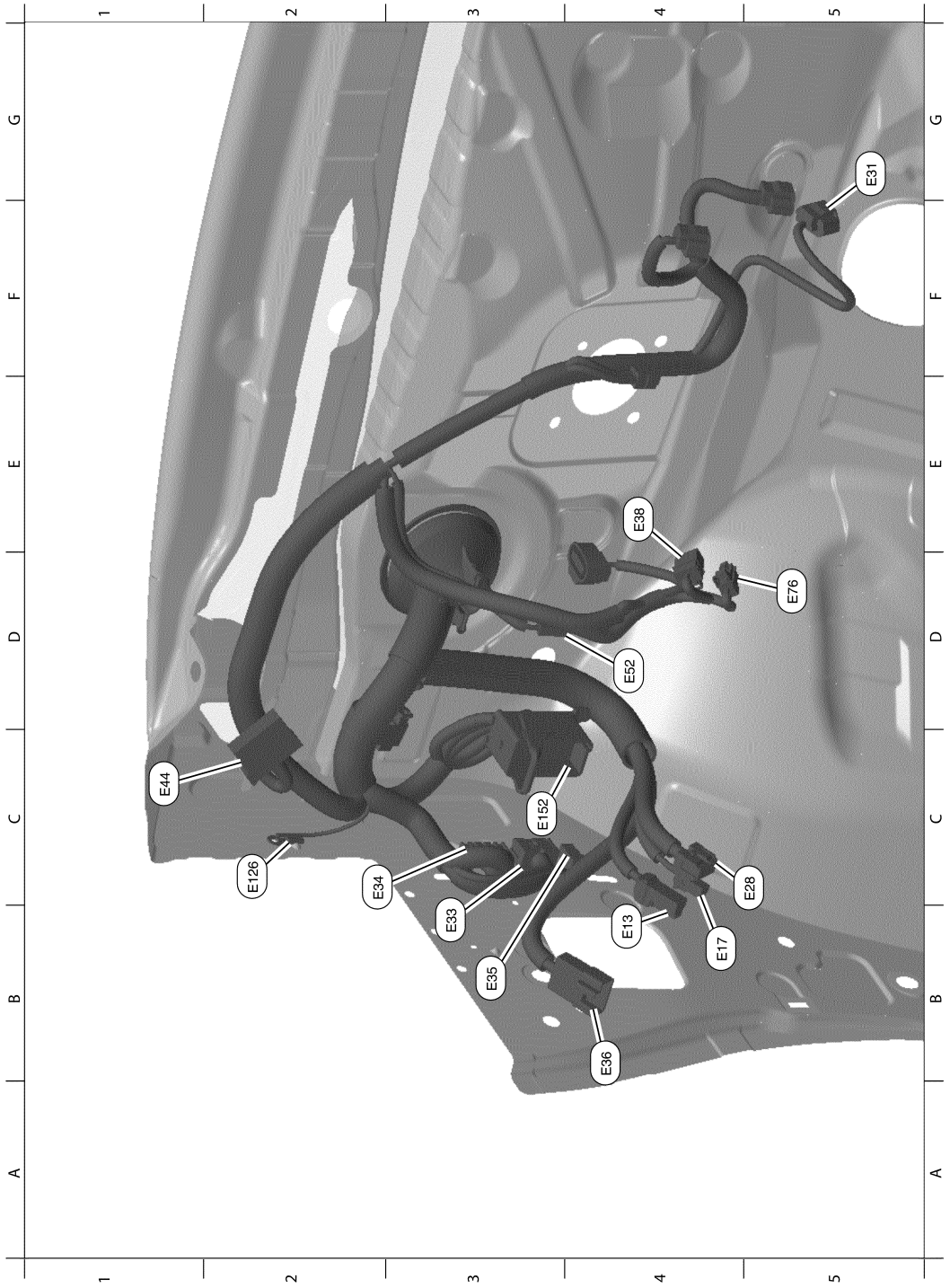
E1	E1	BR/3	: Intelligent Key warning buzzer	G2	E29	Y/4	: To E210
F3	E2	W/16	: To F32	F3	E30	B/1	: Fusible link box (Battery)
F2	E3	B/2	: Anti theft diode	E3	E32	B/32	: ECM (Except for Mexico)
C3	E4	BR/6	: Daytime running light relay	D3	E39	L/4	: Stop lamp relay
G2	E5	W/16	: To E207	G2	E40	B/2	: To E201

E3	E7	GR/2	: Fusible link box (Battery)	B3	E43	B/2	: Front wheel sensor RH
E2	E9	—	: Body ground	G1	E45	L/12	: Joint connector-E12
C3	E11	L/5	: PTC relay-1	G2	E55	W/4	: Joint connector-E10
D2	E12	L/5	: PTC relay-2	B2	E61	—	: Body ground
F1	E14	B/12	: Joint connector-E05	B3	E62	B/6	: Power steering control module
E2	E15	—	:Body ground	C3	E63	B/2	: Power steering control module
E3	E16	GR/32	: ECM (For Mexico)	B2	E70	B/6	: Joint connector-E14
E2	E18	B/2	: Front wheel sensor LH	C2	E71	B/6	: Joint connector-E15
F3	E19	W/10	: To F33	G2	E82	BR/4	: Cooling fan relay
D2	E21	GR/2	: Brake fluid level switch	F1	E118	B/2	: IPDM E/R (Intelligent power distribution module engine room)
D3	E22	L/4	: Accessory relay-2	F1	E119	W/32	: IPDM E/R (Intelligent power distribution module engine room)
E1	E23	GR/5	: Front wiper motor	E1	E120	W/4	: IPDM E/R (Intelligent power distribution module engine room)
E2	E24	L/4	: Trailer turn relay LH	F1	E121	W/12	: IPDM E/R (Intelligent power distribution module engine room)
E2	E25	L/4	: Trailer turn relay RH	B2	E125	B/34	: ABS actuator and electric unit (Control unit)
F2	E26	W/24	: To E209	G2	E153	L/4	: Hill descent control relay
F2	E27	BR/2	: Fusible link box (Battery)	E1	E167	B/3	: Vacuum sensor



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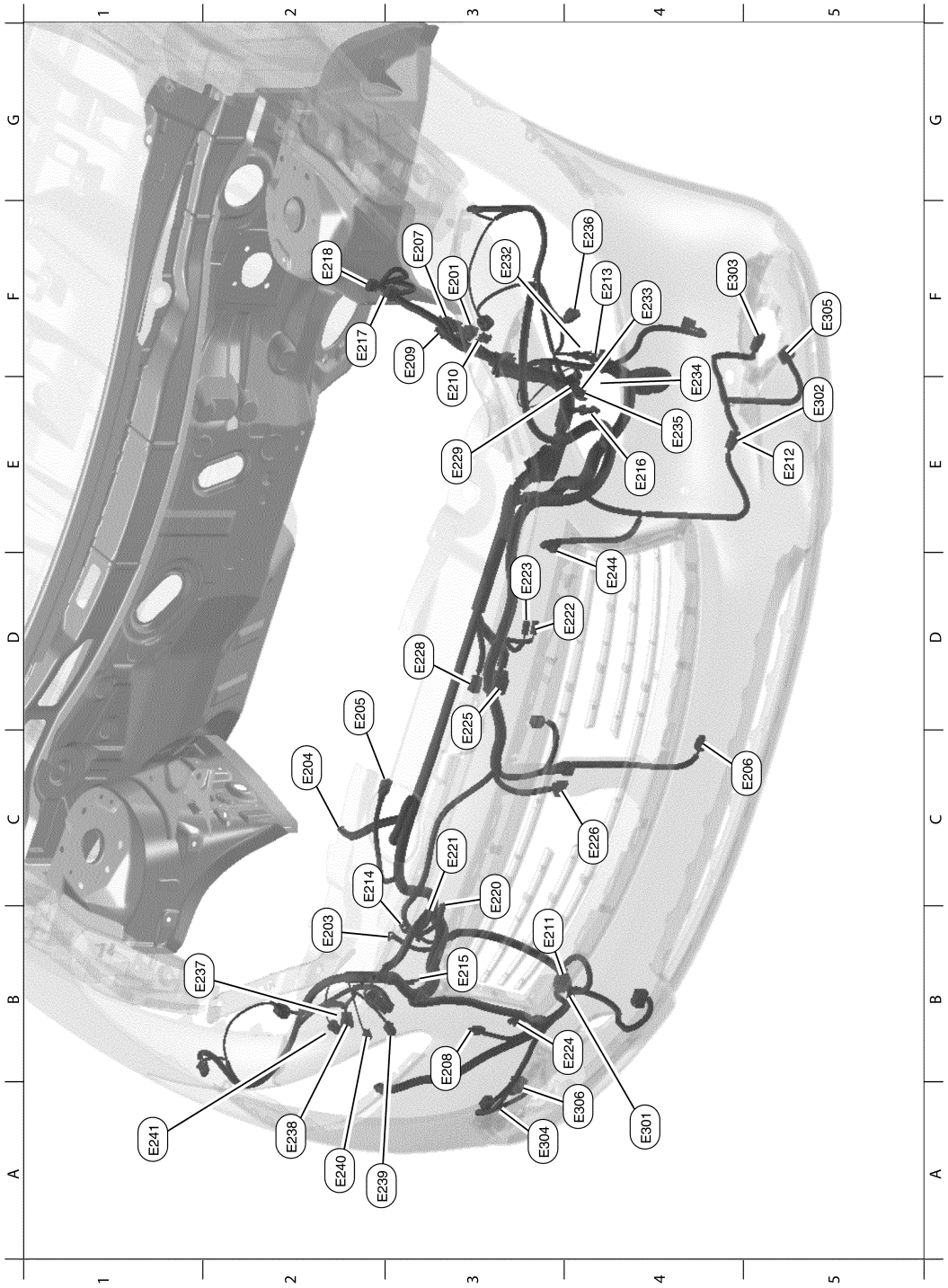
B4	E13	W/1	: Fuse block (J/B)	B4	E36	W/3	: To M75
B4	E17	W/1	: Fuse block (J/B)	E4	E38	W/4	: Stop lamp switch
C5	E28	W/10	: Fuse block (J/B)	C1	E44	W/33	: Joint connector-E01
G5	E31	B/6	: Accelerator pedal position sensor	D4	E52	B/1	: Parking brake switch
B3	E33	W/12	: To B43	D5	E76	BR/2	: Brake pedal position switch

C2	E34	W/24	: To B40	C2	E126	—	: Body ground
B3	E35	GR/1	: To B48	C3	E152	SMJ	:To M31

FRONT END MODULE HARNESS



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F3	E201	B/2	: To E40	D3	E225	GR/3	: Cooling fan control module
B2	E203	—	: Body ground	C4	E226	B/4	: Front camera
C2	E204	-/2	: Generator	D3	E228	Y/2	: Crash zone sensor

D2	E205	BR/3	: Hood switch	E3	E229	—	: Body ground
C5	E206	B/2	: Ambient sensor	F3	E232	B/2	: Front combination lamp LH
F3	E207	W/16	: To E5	F4	E233	B/2	: Front combination lamp LH
B3	E208	B/2	: Washer fluid level switch	E4	E234	GR/2	: Front combination lamp LH
F3	E209	W/24	: To E26	E4	E235	GR/2	: Front combination lamp LH
E3	E210	Y/4	: To E29	F4	E236	GR/2	: Front combination lamp LH
B3	E211	GR/4	: To E301	B1	E237	B/2	: Front combination lamp RH
E5	E212	GR/4	: To E302	A2	E238	B/2	: Front combination lamp RH
F4	E213	—	: Body ground	A2	E239	GR/2	: Front combination lamp RH
C2	E214	—	: Body ground	A2	E240	GR/2	: Front combination lamp RH
B3	E215	—	: Body ground	A1	E241	GR/2	: Front combination lamp RH
E4	E216	—	: Body ground	D4	E244	B/3	: Refrigerant pressure sensor
F2	E217	W/8	: IPDM E/R (Intelligent power distribution module engine room)	Front fog lamp sub-harness			
F2	E218	W/16	: IPDM E/R (Intelligent power distribution module engine room)	A4	E301	GR/4	: To E211
C3	E220	B/1	: Horn (High)	E5	E302	GR/4	: To E212
C3	E221	B/1	: Horn (High)	F4	E303	GR/2	: Front fog lamp LH
D4	E222	B/1	: Horn (Low)	A3	E304	GR/2	: Front fog lamp RH
D3	E223	B/1	: Horn (Low)	F5	E305	B/2	: Front fog lamp LH
B4	E224	B/2	: Front and rear washer motor	A4	E306	B/2	: Front fog lamp RH

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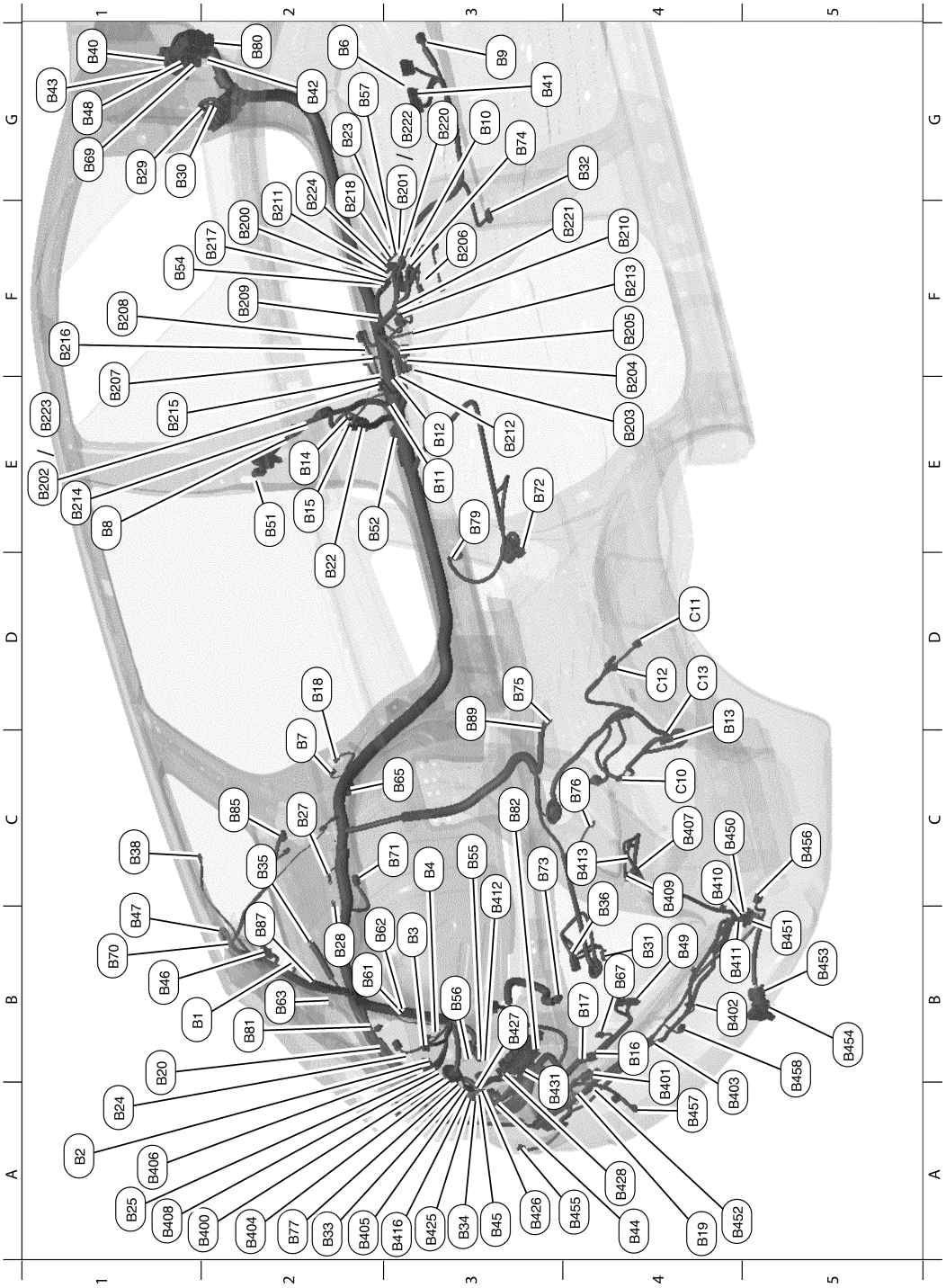
B4	F3	B/2	: A/C compressor	D2	F49	GR/3	: Ignition coil No. 5 (With power transistor)
C2	F5	BR/4	: Air fuel ratio (A/F) sensor 1 (Bank 1) (For Mexico)	E2	F50	B/6	: Electric throttle control actuator
C5	F6	-/1	: Generator	E5	F51	B/48	: ECM (For Mexico)
C4	F7	B/3	: Generator	F4	F52	BR/48	: ECM (For Mexico)

C4	F8	GR/3	: Ignition coil No. 2 (With power transistor)	E5	F53	B/10	: Joint connector-F03
D4	F9	GR/3	: Ignition coil No. 4 (With power transistor)	B3	F54	B/3	: Engine oil pressure sensor
D4	F10	GR/3	: Ignition coil No. 6 (With power transistor)	F5	F55	B/10	: Joint connector-F04
D4	F11	B/3	: Crankshaft position sensor (POS)	G4	F56	W/4	: Joint connector-F07
D5	F12	B/4	: Heated oxygen sensor 2 (Bank 2) (For Mexico)	G4	F57	W/4	: Joint connector-F08
B1	F13	B/4	: Heated oxygen sensor 2 (Bank 1) (For Mexico)	C1	F58	G/6	: Joint connector-F09
F5	F14	B/10	: Joint connector-F01	B4	F59	—	: Engine ground
E5	F15	B/48	: TCM (Transmission control module) (For Mexico)	B3	F60	—	: Engine ground
D3	F16	GR/2	: EVAP canister purge volume control solenoid valve	E3	F61	GR/2	: Engine coolant temperature sensor
F3	F17	B/1	: IPDM E/R (Intelligent power distribution module engine room)	B2	F62	GR/2	: Intake valve timing control solenoid valve (Bank 1) (For Mexico)
C3	F18	GR/2	: Fuel injector No. 2	B3	F63	GR/2	: Intake valve timing control solenoid valve (Bank 2) (For Mexico)
G3	F19	W/10	: IPDM E/R (Intelligent power distribution module engine room)	B3	F64	BR/2	: Electronic controlled engine mount control solenoid valve
C4	F20	GR/2	: Fuel injector No. 4	C5	F65	BR/4	: Air fuel ratio (A/F) sensor 1 (Bank 2) (For Mexico)
D3	F21	GR/2	: Condenser-1	C3	F66	B/2	: VIAS control solenoid valve 1
D3	F22	GR/2	: Fuel injector No. 6	C3	F67	B/2	: VIAS control solenoid valve 2
E2	F23	B/3	: Output speed sensor	C2	F68	GR/2	: Engine oil temperature sensor
G2	F24	W/12	: IPDM E/R (Intelligent power distribution module engine room)	D2	F72	GR/4	: Air fuel ratio (A/F) sensor 1 (Bank 1) (Except for Mexico)
E3	F25	B/3	: Primary speed sensor	D5	F73	GR/4	: Air fuel ratio (A/F) sensor 1 (Bank 2) (Except for Mexico)
E3	F26	L/4	: To F201	F3	F74	B/4	: Mass air flow sensor (Except for Mexico)
F4	F27	—	: Starter motor	1	F75	GR/4	: Heated oxygen sensor 2 (Bank 1) (Except for Mexico)
E4	F28	GR/1	: Starter motor	5	F76	GR/4	: Heated oxygen sensor 2 (Bank 2) (Except for Mexico)
F4	F29	B/3	: Input speed sensor	B2	F77	GR/2	: Intake valve timing control solenoid valve (Bank 1) (Except for Mexico)
C3	F30	GR/2	: Fuel injector No. 1	E5	F78	B/55	: ECM (Except for Mexico)
F3	F31	B/6	: Mass air flow sensor (For Mexico)	F4	F79	B/65	: ECM (Except for Mexico)
G3	F32	W/16	: To E2	3	F80	GR/2	: Intake valve timing control solenoid valve (Bank 2) (Except for Mexico)
F4	F33	W/10	: To E19	C2	F81	GR/2	: Intake valve timing intermediate lock control solenoid valve (Bank 1)
F4	F34	GR/4	: Battery current sensor	B5	F82	GR/2	: Intake valve timing intermediate lock control solenoid valve (Bank 2)
G5	F35	B/10	: Joint connector-F02	D2	F83	B/3	: Exhaust valve timing control position sensor (PHASE) (Bank 1)
E4	F36	B/10	: Transmission range switch	D5	F84	B/3	: Exhaust valve timing control position sensor (PHASE) (Bank 2)
F5	F38	B/10	: Joint connector-F02	B4	F85	GR/2	: Exhaust valve timing control solenoid valve (Bank 2)

F3	F39	-/1	: Fusible link box (Battery)	B2	F86	GR/2	: Exhaust valve timing control solenoid valve (Bank 1)
C3	F41	GR/2	: Fuel injector No. 3	D2	F87	B/3	: Camshaft position sensor (PHASE) (Bank 1) (Except for Mexico)
D3	F42	GR/2	: Fuel injector No. 5	D4	F88	B/3	: Camshaft position sensor (PHASE) (Bank 2) (Except for Mexico)
D2	F44	B/3	: Camshaft position sensor (PHASE) (Bank1) (For Mexico)	E5	F89	B/48	: TCM (Transmission control module) (Except for Mexico)
D4	F45	B/3	: Camshaft position sensor (PHASE) (Bank2) (For Mexico)	Knock sensor sub-harness			
F4	F46	GR/22	: CVT unit	D3	F201	L/4	: To F26
C2	F47	GR/3	: Ignition coil No. 1 (With power transistor)	D3	F202	GR/2	: Knock sensor (Bank 1)
C2	F48	GR/3	: Ignition coil No. 3 (With power transistor)	C3	F204	GR/2	: Knock sensor (Bank 2)



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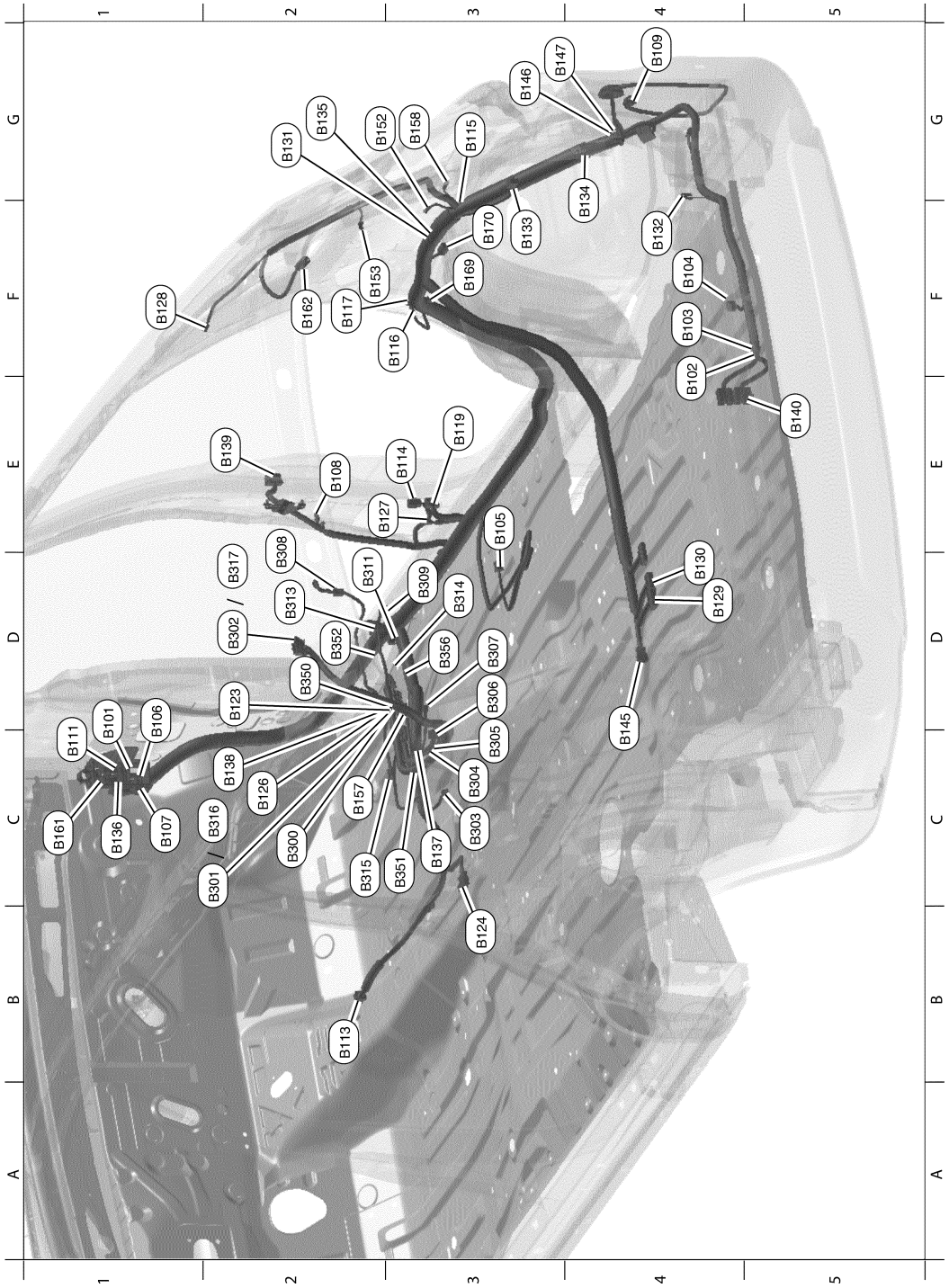
B1	B1	BR/2	: Rear side speaker LH	C2	B85	W/10	: Sunshade motor assembly
A1	B2	W/16	: Satellite radio tuner	B2	B87	W/4	: Joint connector-B16
B3	B3	W/32	: Bluetooth® control unit	D3	B89	W/4	: Joint connector-B20
C3	B4	W/8	: Bluetooth® control unit	Front seat LH harness			
G2	B6	W/24	: To M66	G2	B200	BR/12	: To B54

C2	B7	—	: Body ground	G3	B201	W/16	: To B57
E1	B8	W/4	: Front door switch LH	E1	B202	W/24	: Headrest display unit (Driver seat) (Pre-wire)
G3	B9	Y/22	: Air bag diagnosis sensor unit	E4	B203	B/16	: Climate controlled seat control unit (Driver seat)
G3	B10	Y/2	: Front LH side air bag module	F4	B204	B/8	: Climate controlled seat control unit (Driver seat)
E3	B11	W/4	: Joint connector-B09	F4	B205	B/6	: Climate controlled seat control unit (Driver seat)
E3	B12	W/4	: Joint connector-B10	F3	B206	W/4	: Seat cushion thermal electric device (Driver seat)
D4	B13	B/14	: To C13	E1	B207	W/6	: Lifting motor LH (Rear)
E2	B14	Y/2	: Front LH seat belt pre-tensioner	F1	B208	W/10	: Power seat switch LH
E2	B15	Y/2	: Front side air bag satellite sensor LH	F2	B209	W/32	: Driver seat control unit
B4	B16	W/4	: Joint connector-B11	F4	B210	W/12	: Driver seat control unit
B4	B17	W/4	: Joint connector-B12	G2	B211	GR/5	: Sliding motor LH
D2	B18	W/4	: Rear door switch LH	E3	B212	W/4	: Seat back thermal electric device (Driver seat)
A4	B19	—	: Body ground	F4	B213	W/5	: Climate controlled seat blower motor (Driver seat)
B1	B20	W/4	: Fuel lid door lock actuator	E1	B214	BR/4	: Lumbar support switch
D2	B22	O/2	: Front LH seat belt pre-tensioner	E1	B215	B/2	: Lumbar support motor
G2	B23	W/24	: To B222	F1	B216	W/3	: Front seat heater (Driver seat)
A1	B24	W/32	: Video distributor	F2	B217	W/6	: Reclining motor LH
A1	B25	W/24	: Video distributor	G2	B218	W/6	: Lifting motor LH (Front)
C2	B27	—	: Body ground	G3	B220	W/12	: To B74
B2	B28	—	: Body ground	F4	B221	W/4	: Seat belt buckle switch (Driver seat)
G1	B29	W/6	: Fuse block (J/B)	G3	B222	W/24	: To B23
G1	B30	W/8	: Fuse block (J/B)	E1	B223	W/32	: Headrest display unit (Driver seat)
B4	B31	B/2	: EVAP canister vent control valve	G3	B222	W/24	: To B23
G4	B32	W/32	: To B124	E1	B223	W/32	: Headrest display unit (Driver seat)
A2	B33	B/2	: To B404	G2	B224	P/20	: Joint connector-B22
A3	B34	W/8	: To B405	Body No. 3 harness			
C2	B35	W/4	: Sonar buzzer	A2	B400	W/32	: To B77
C4	B36	GR/3	: EVAP control system pressure sensor	A4	B401	B/12	: To B452
C1	B38	Y/2	: LH side curtain air bag module	B4	B402	BR/2	: Back door warning chime
G1	B40	W/24	: To E34	A4	B403	GR/2	: Outside key antenna (Rear bumper)
G3	B41	W/32	: To M69	A2	B404	B/2	: To B33
G2	B42	BR/12	: To M74	A2	B405	W/8	: To B34
G1	B43	W/12	: To E33	A1	B406	GR/3	: Rear combination lamp LH
A4	B44	B/2	: To B425	C4	B407	GR/3	: Rear combination lamp RH
A3	B45	W/16	: To B426	A1	B408	GR/2	: Rear combination lamp LH
B1	B46	W/24	: To D501	C4	B409	GR/2	: Rear combination lamp RH
B1	B47	GR/8	: To D502	C4	B410	GR/6	: To B450
G1	B48	GR/1	: To E35	B4	B411	B/2	: To B451
B4	B49	W/16	: To B140	C3	B412	W/2	: Rear combination lamp LH
E2	B51	W/12	: To D201	C4	B413	W/2	: Rear combination lamp RH
E2	B52	W/2	: Condenser-2	A3	B416	B/8	: Side radar LH

F1	B54	BR/12	: To B200	Trailer relay sub-harness			
C3	B55	B/24	: Automatic back door control module	A3	B425	B/2	: To B44
B3	B56	GR/14	: Automatic back door control module	A3	B426	W/16	: To B45
G2	B57	W/16	: To B201	B3	B427	L/4	: Trailer tow relay 1
B2	B61	W/4	: Joint connector-B18	A4	B428	BR/6	: Trailer tow relay 2
B2	B62	W/4	: Joint connector-B19	A3	B431	L/4	: Trailer back-up relay
B2	B63	W/33	: Joint connector-B01	Body No. 3 sub-harness			
C3	B65	W/4	: Joint connector-B07	C4	B450	GR/6	: To B410
B4	B67	W/16	: 4WD control unit	B5	B451	B/2	: To B411
G1	B69	SMJ	: To M40	A4	B452	B/12	: To B401
B1	B70	B/10	: Spindle unit LH	B5	B453	B/7	: Trailer
C3	B71	Y/2	: Rear side air bag satellite sensor LH	B5	B454	B/7	: Trailer receptacle
E3	B72	GR/6	: Fuel level sensor unit and fuel pump	A4	B455	B/3	: Rear sonar sensor LH outer
B3	B73	GR/4	: Subwoofer	C5	B456	B/3	: Rear sonar sensor RH outer
G3	B74	W/12	: To B220	A4	B457	B/3	: Rear sonar sensor LH inner
D3	B75	W/16	: To B145	B5	B458	B/3	: Rear sonar sensor RH inner
C4	B76	GR/2	: Inside key antenna (Luggage room)	Chassis harness			
A2	B77	W/32	: To B400	C4	C10	B/2	: Rear wheel sensor LH
E3	B79	W/6	: 2nd row seat heater LH	D4	C11	GR/2	: Rear wheel sensor RH
G2	B80	W/4	: Joint connector-B15	D4	C12	GR/2	: 4WD solenoid
B2	B81	GR/3	: Rear cargo power socket	D4	C13	B/14	: To B13
C3	B82	B/8	: Inverter unit				



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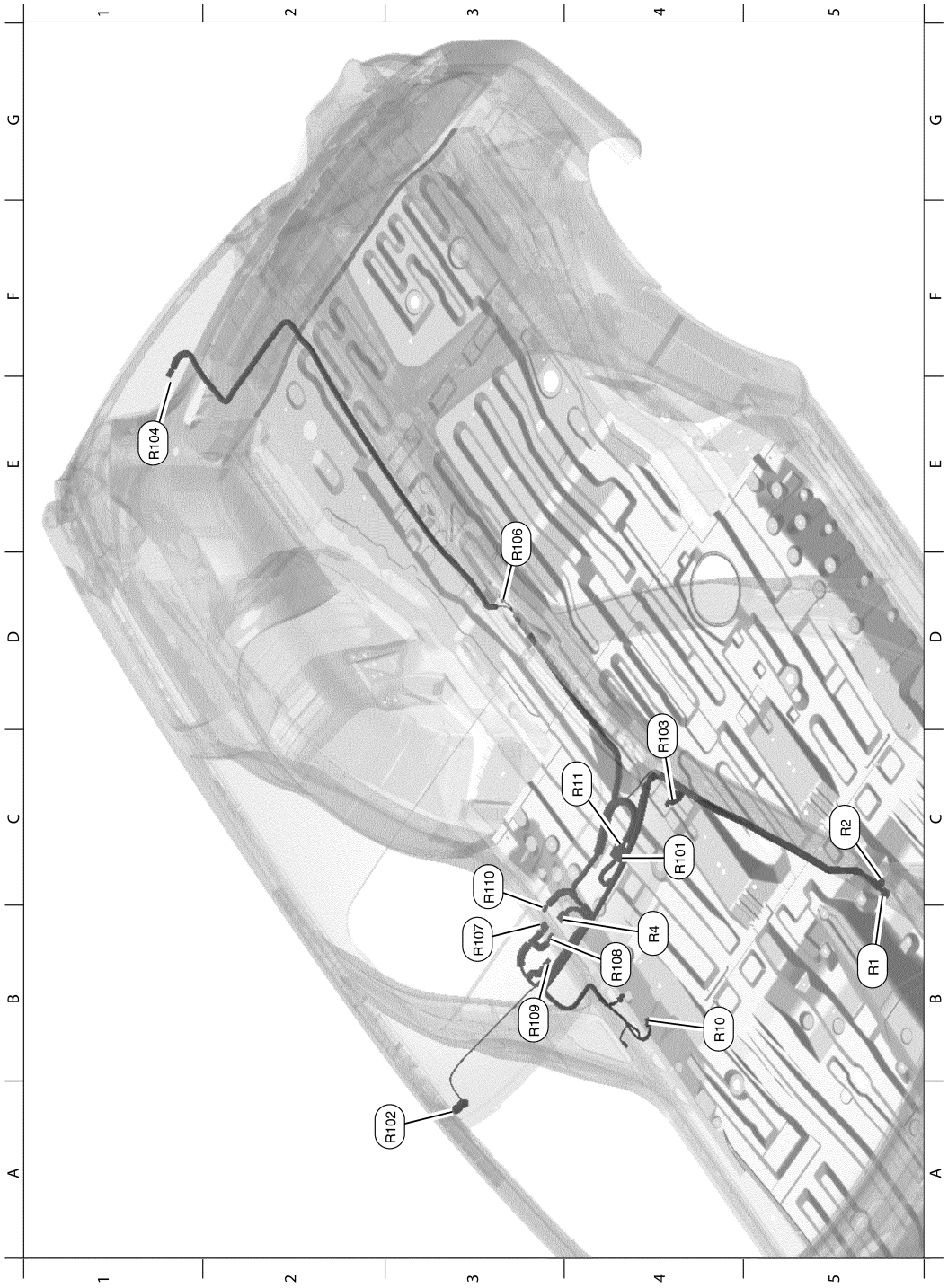
D1	B101	W/32	: To M84	D4	B145	W/16	: To B75
E4	B102	W/4	: Joint connector-B14	G3	B146	W/4	: Joint connector-B12
F4	B103	W/4	: Joint connector-B05	G3	B147	W/4	: Joint connector-B13
F4	B104	W/24	: ADAS control unit	F3	B152	—	: Body ground
E2	B105	W/6	: 2nd row seat heater RH	F2	B153	BR/2	: Rear side speaker RH

D1	B106	GR/1	: To M8	C2	B157	W/12	: To B300
C1	B107	W/24	: To M9	G3	B158	—	: Body ground
E2	B108	W/4	: Front door switch RH	C1	B161	W/16	: To M157
G4	B109	B/8	: Side radar RH	F2	B162	B/10	: Spindle unit RH
C1	B111	BR/16	: To M10	F3	B169	W/4	: Joint connector-B04
B2	B113	Y/22	: Air bag diagnosis sensor unit	F3	B170	Y/2	: Rear side air bag satellite sensor RH
E3	B114	Y/2	: Front side air bag satellite sensor RH	Front seat RH harness			
G3	B115	W/33	: Joint connector-B08	C2	B300	W/12	: To B157
F3	B116	W/4	: Rear door switch RH	C2	B301	W/24	: To B138
F2	B117	—	: Body ground	D2	B302	W/24	: Headrest display unit (Passenger seat) (Pre-wire)
E3	B119	O/2	: Front RH seat belt pre-tensioner	C3	B303	W/4	: Seat belt buckle switch (Passenger seat)
D2	B123	W/4	: To B350	C3	B304	B/6	: Climate controlled seat control unit (Passenger seat)
B3	B124	W/32	: To B32	C3	B305	B/8	: Climate controlled seat control unit (Passenger seat)
C2	B126	Y/2	: Front RH side air bag module	D3	B306	B/16	: Climate controlled seat control unit (Passenger seat)
E2	B127	Y/2	: Front RH seat belt pre-tensioner	D3	B307	W/5	: Climate controlled seat blower motor (Passenger seat)
F1	B128	Y/2	: RH side curtain air bag module	E2	B308	W/4	: Seat cushion thermal electric device (Passenger seat)
D4	B129	BR/14	: BOSE speaker amp.	D3	B309	W/4	: Seat back thermal electric device (Passenger seat)
D4	B130	BR/23	: BOSE speaker amp.	D2	B311	W/6	: Reclining motor RH
G2	B131	W/4	: Joint connector-B25	D2	B313	W/10	: Power seat switch RH
F4	B132	—	: Body ground	D3	B314	W/5	: Sliding motor RH
F3	B133	W/4	: Rear blower motor resistor 2	C2	B315	W/3	: Front seat heater (Passenger seat)
G4	B134	W/2	: Rear blower motor 2	C2	B316	W/24	: To B137
G2	B135	W/4	: Joint connector-B17	D2	B317	W/32	: Headrest display unit (Passenger seat)
C1	B136	W/40	: To M36	ODS sub-harness			
C3	B137	W/24	: To B316	D2	B350	W/4	: To B123
C2	B138	W/24	: To B301	C3	B351	P/3	: Occupant classification system sensor FI
E2	B139	W/12	: To D301	D2	B352	P/3	: Occupant classification system sensor RI
E5	B140	W/16	: To B49	D3	B356	B/20	: Occupant classification system control unit



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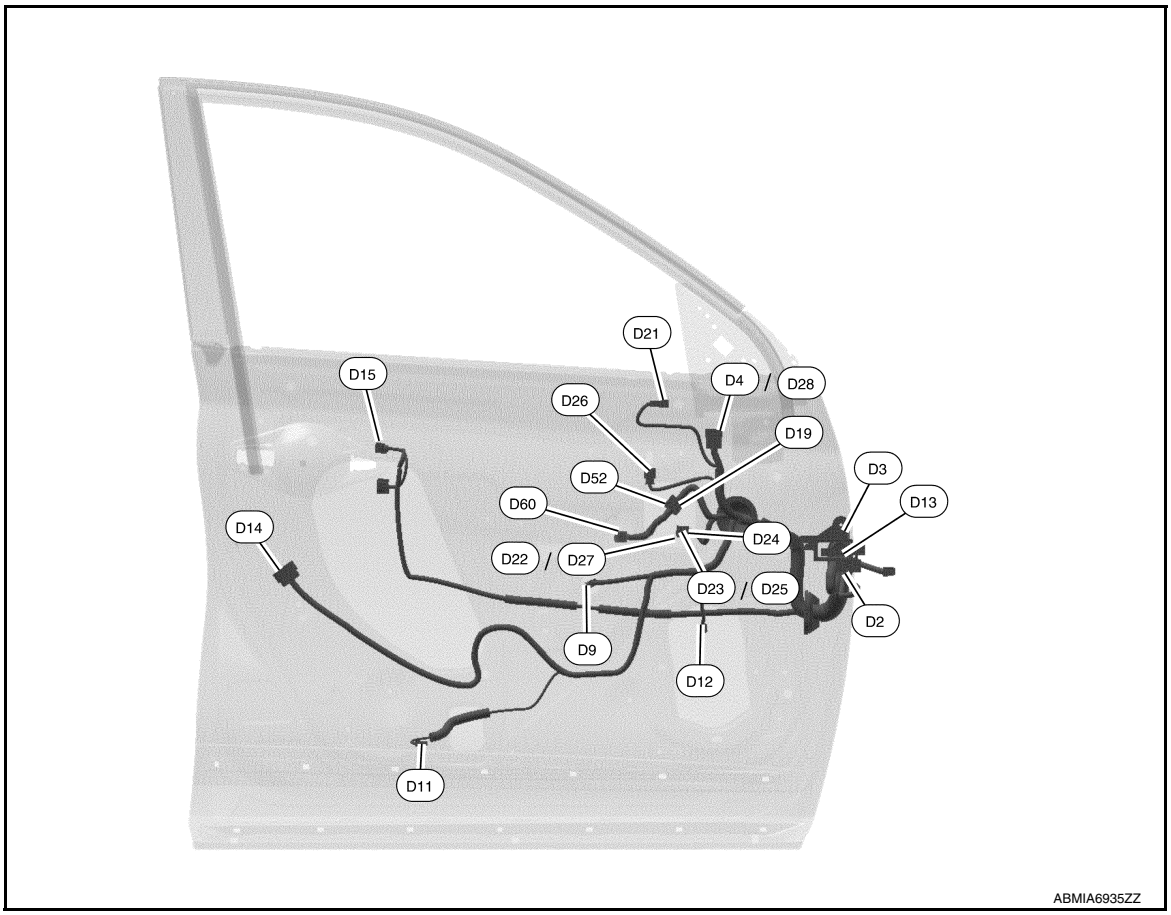
B5	R1	W/24	: To M1	C4	R103	W/2	: Vanity lamp LH
C5	R2	W/6	: To M2	E1	R104	W/3	: Cargo lamp
B4	R4	GR/10	: Moonroof motor assembly	E3	R106	W/4	: Personal lamps 2nd row
B4	R10	B/10	: Auto anti-dazzling inside mirror	B3	R107	W/8	: Front room/map lamp assembly
C4	R11	W/24	: To R101	B4	R108	W/12	: Moonroof switch

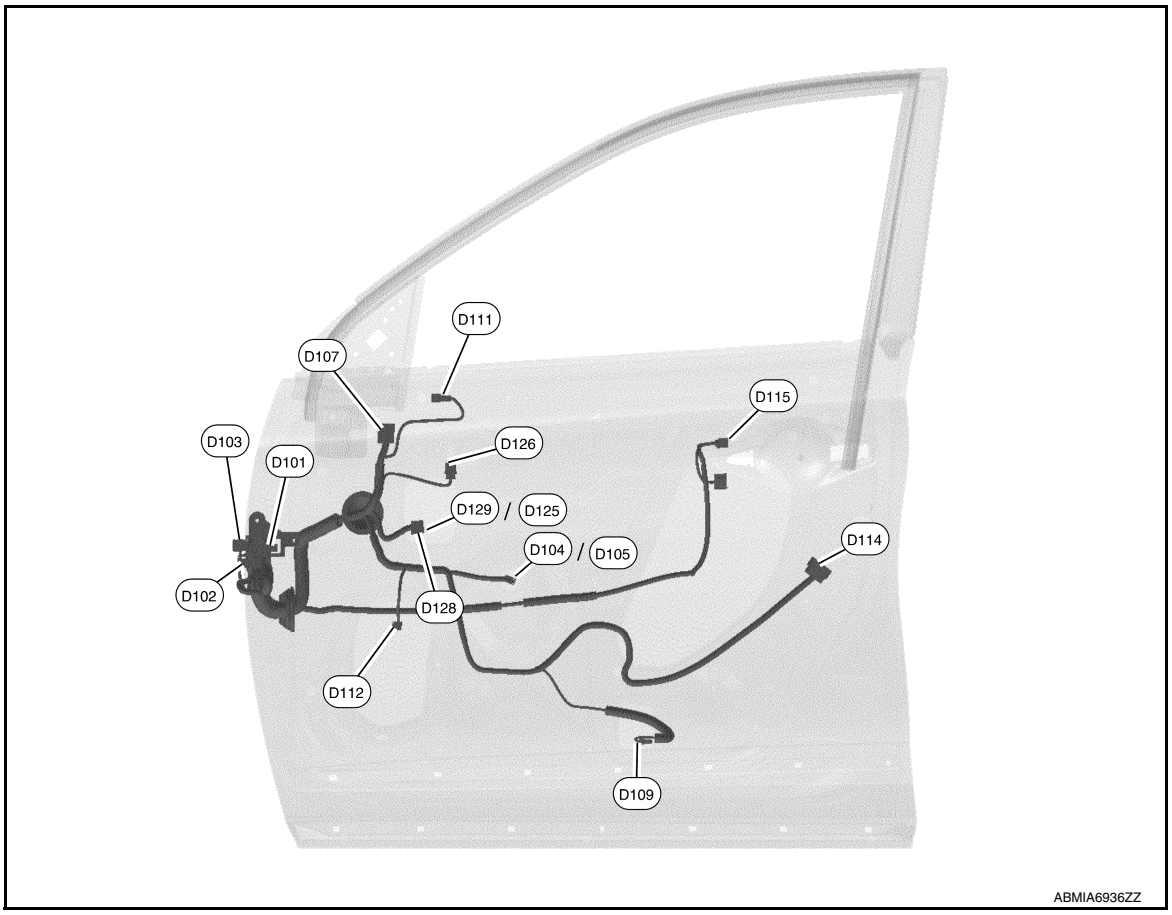
Room lamp sub harness				B3	R109	W/6	: Microphone
C4	R101	W/24	: To R11	C3	R110	W/4	: Sunshade switch
A3	R102	W/2	: Vanity lamp RH				

FRONT DOOR LH HARNESS



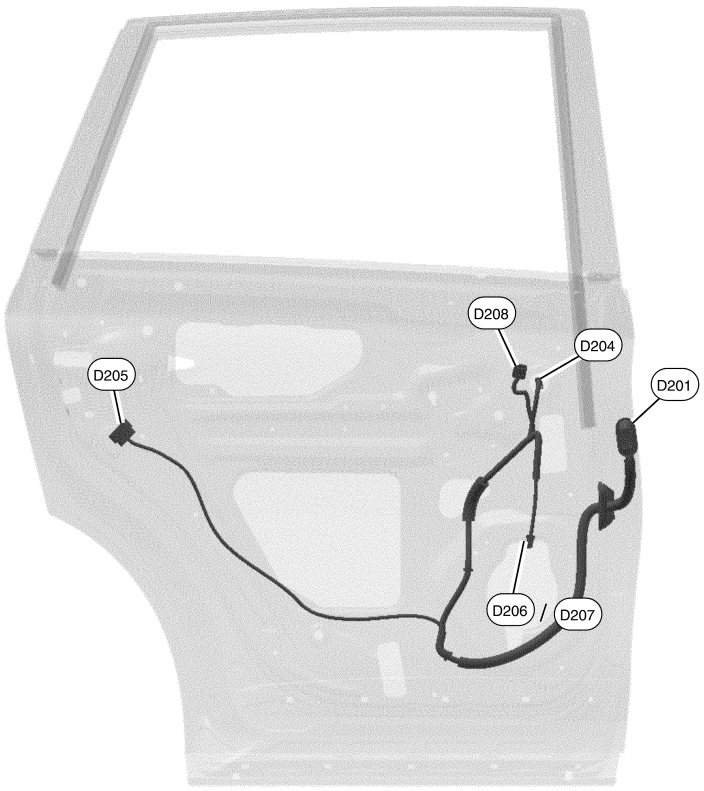
D2	W/16	: To M167	D22	GR/16	: Door mirror remote control switch (With automatic drive positioner)
D3	W/40	: To M168	D23	W/16	: Main power window and door lock/unlock switch (With left front only auto down)
D4	W/12	: Door mirror LH (Without around view monitor system)	D24	W/3	: Main power window and door lock/unlock switch
D9	W/6	: Front power window motor LH	D25	W/16	: Main power window and door lock/unlock switch (With left and right front auto up/down)
D11	W/2	: Front step lamp LH	D26	Y/2	: Front door satellite sensor LH
D12	W/2	: Front door speaker LH	D27	B/16	: Door mirror remote control switch (Without automatic drive positioner)
D13	Y/4	:To M169	D28	W/24	: Door mirror LH (With around view monitor system)
D14	GR/6	: Front door lock assembly LH	Front door LH sub-harness		
D15	B/4	: Front outside handle assembly LH	D52	W/16	: To D19
D19	W/16	: To D52	D60	W/16	: Seat memory switch
D21	W/4	: Blind spot warning indicator LH			

FRONT DOOR RH HARNESS



D101	W/32	: To M91	D112	W/2	: Front door speaker RH
D102	W/10	: To M158	D114	GR/6	: Front door lock actuator RH
D103	Y/4	: To M159	D115	B/4	: Front outside handle assembly RH
D104	W/6	: Front power window motor RH (With left front only auto down)	D125	W/12	: Power window and door lock/unlock switch RH (With left front only auto down)
D105	W/6	: Front power window motor RH (With left and right front auto up/down)	D126	Y/2	: Front door satellite sensor RH
D107	W/12	: Door mirror RH (Without around view monitor system)	D128	W/24	: Door mirror RH (With around view monitor system)
D109	W/2	: Front step lamp RH	D129	W/12	: Power window and door lock/unlock switch RH (With left and right auto up/down)
D111	W/4	: Blind spot warning indicator RH			

REAR DOOR LH HARNESS



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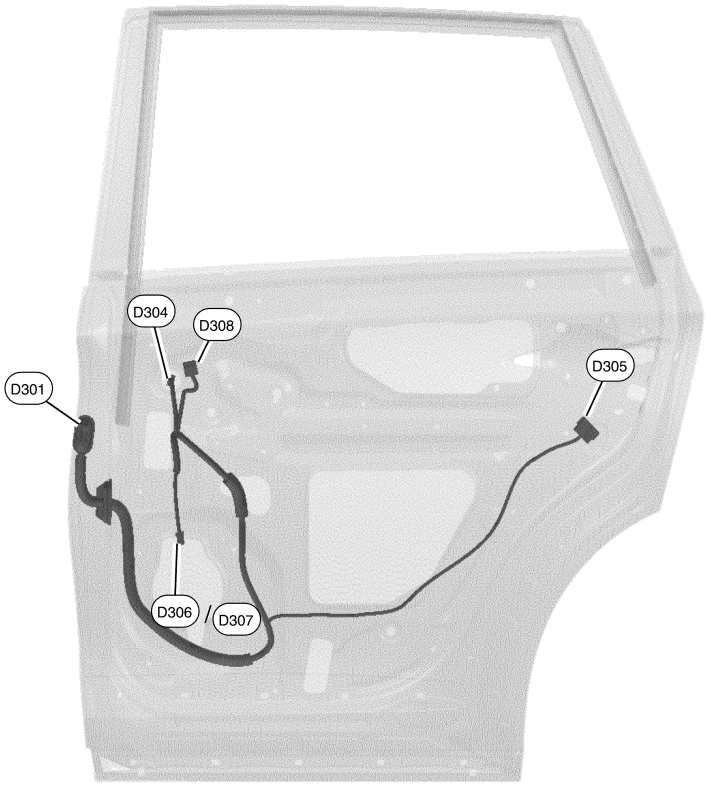
D201	W/12	: To B51	D206	W/2	: Rear door speaker LH
D204	W/6	: Rear power window motor LH	D207	BR/2	: Rear door speaker LH
D205	GR/6	: Rear door lock actuator LH	D208	W/8	: Rear power window switch LH

REAR DOOR RH HARNESS



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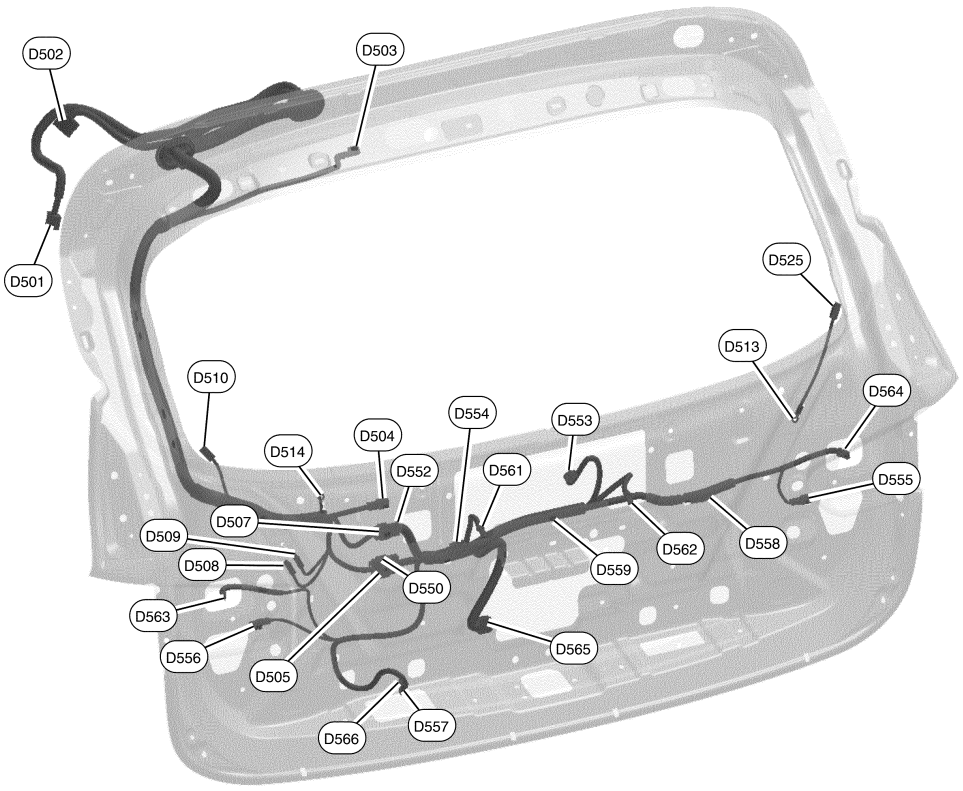
D301	W/12	: To B139	D306	W/2	: Rear door speaker RH
D304	W/6	: Rear power window motor RH	D307	BR/2	: Rear door speaker RH
D305	GR/6	: Rear door lock actuator RH	D308	W/8	: Rear power window switch RH



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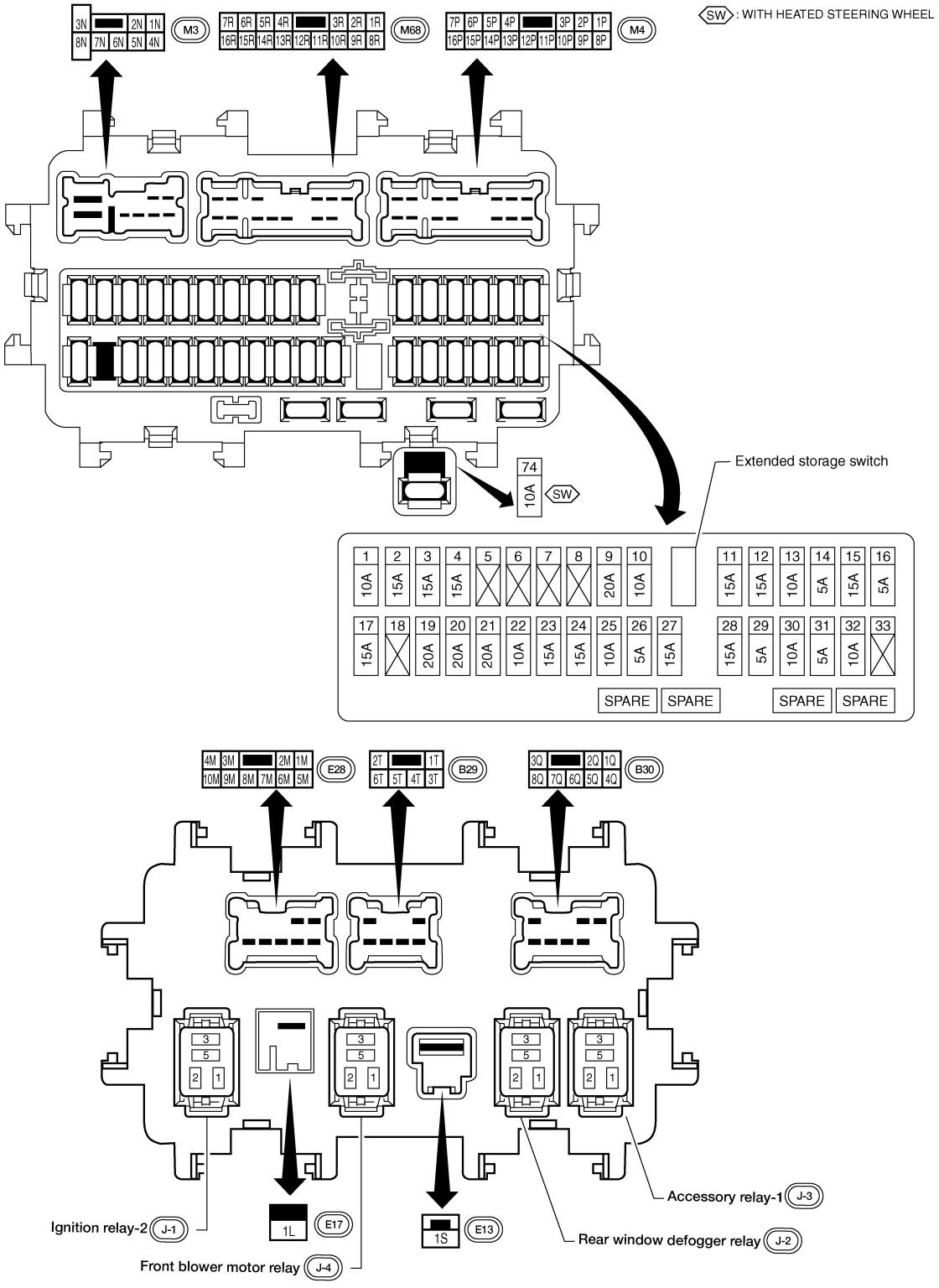
D501	W/24	: To B46	D552	W/16	: To D507
D502	GR/8	: To B47	D553	W/3	: Rear wiper motor
D503	BR/2	: High-mounted stop lamp	D554	W/4	: Joint connector-D01
D504	W/4	: Rear view camera	D555	GR/2	: Touch sensor RH
D505	W/6	: To D550	D556	W/2	: Touch sensor LH
D507	W/16	: To D552	D557	W/8	: Back door lock assembly (With power back door)
D508	B/1	: Rear window defogger condenser	D558	B/2	: Diode-2
D509	B/1	: Rear window defogger condenser	D559	W/4	: Back door opener switch
D510	B/1	: Rear window defogger	D561	BR/2	: License plate lamp LH
D513	—	: Body ground	D562	BR/2	: License plate lamp RH
D514	—	: Body ground	D563	W/2	: Back-up lamp RH
D525	B/1	: Rear window defogger	D564	W/2	: Back-up lamp LH
Back door RH harness			D565	W/4	: Back door lock assembly (Without power back door)
D550	W/6	: To D505	D566	G/8	: Automatic back door close switch

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:0000000011151115



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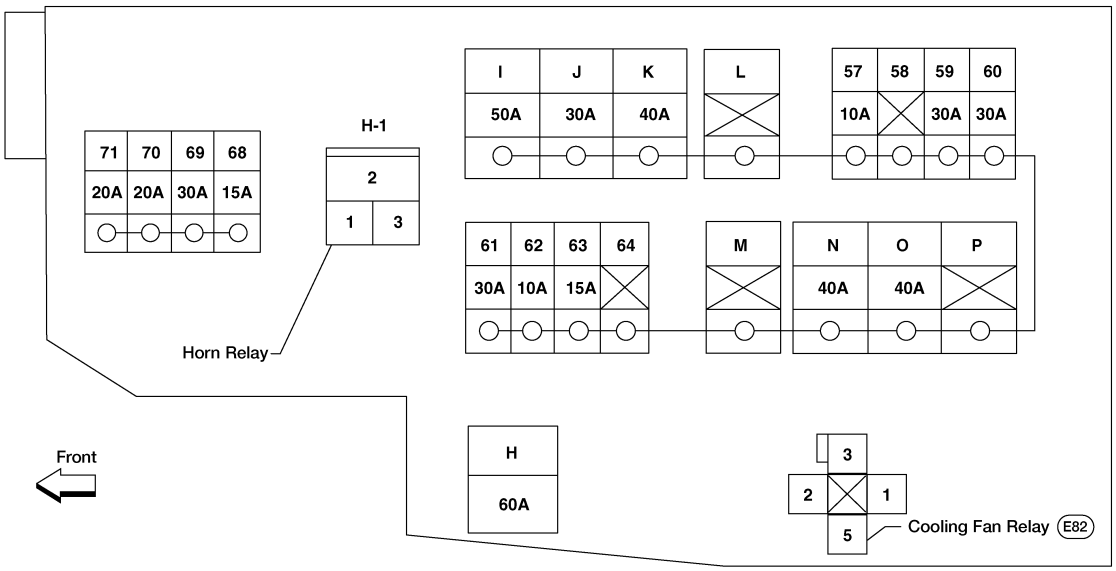
FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

INFOID:0000000011151116

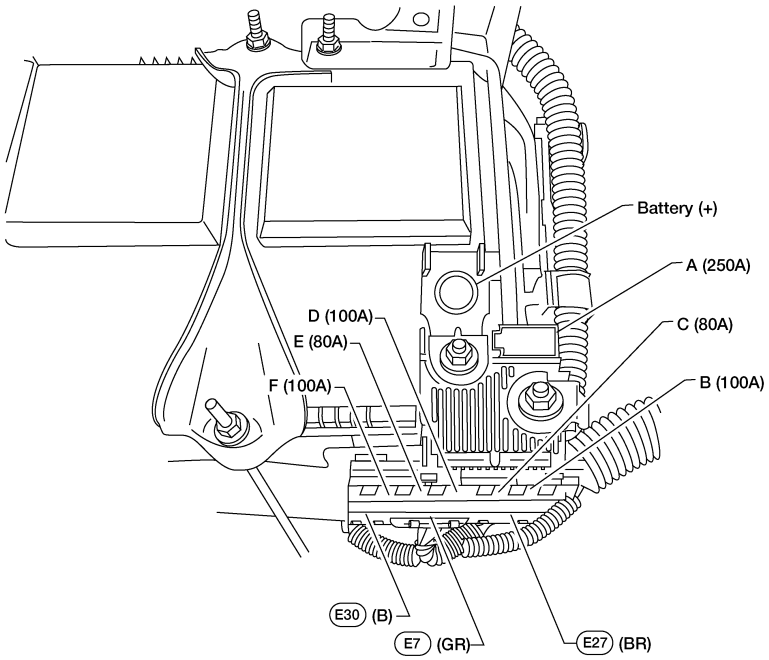
FUSE, FUSIBLE LINK AND RELAY BOX 1

FUSE AND FUSIBLE LINK BOX



NO. 57 - 71 : FUSE H - P : FUSIBLE LINK

FUSIBLE LINK BOX (BATTERY)



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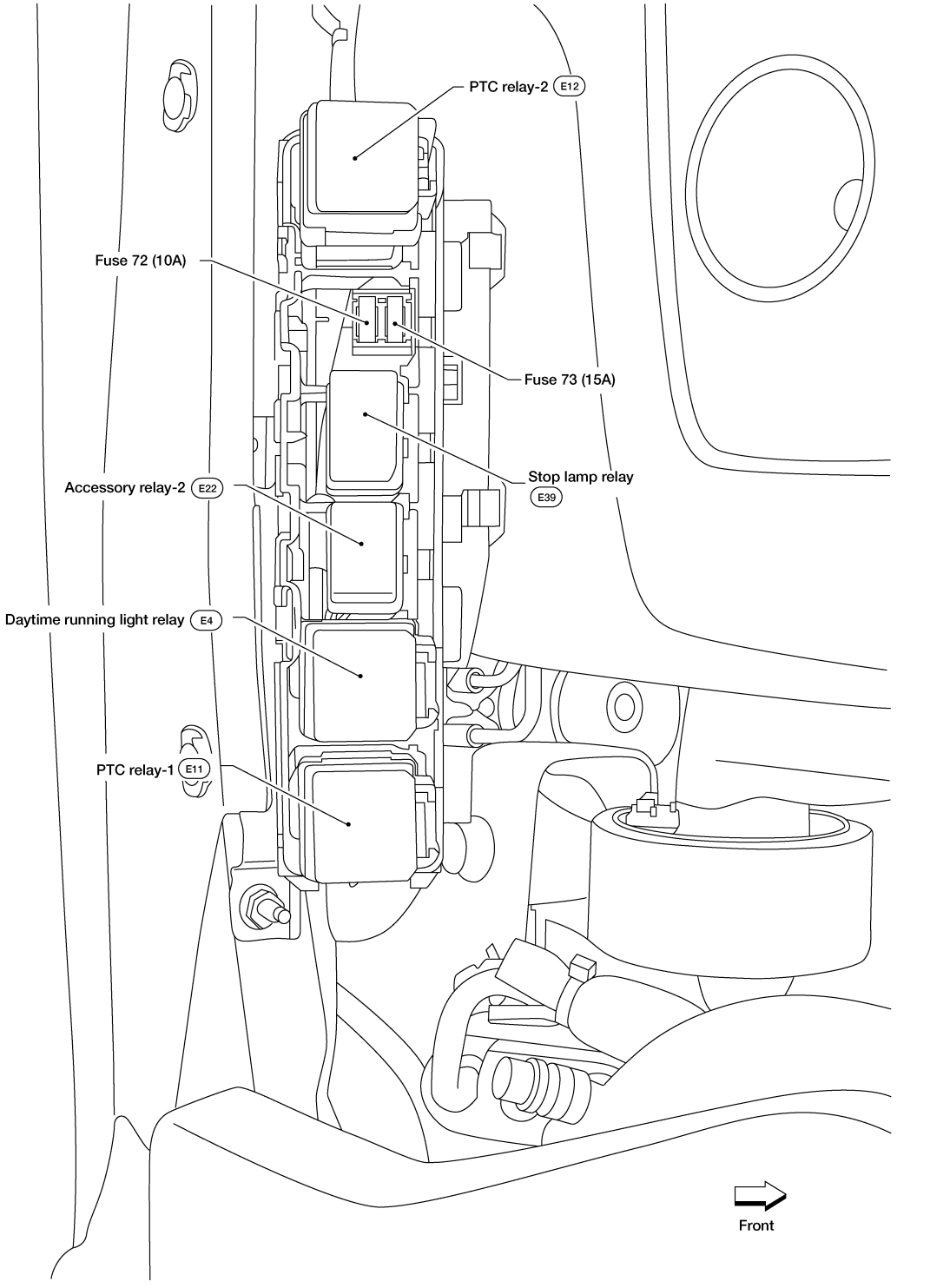
FUSE AND RELAY BOX



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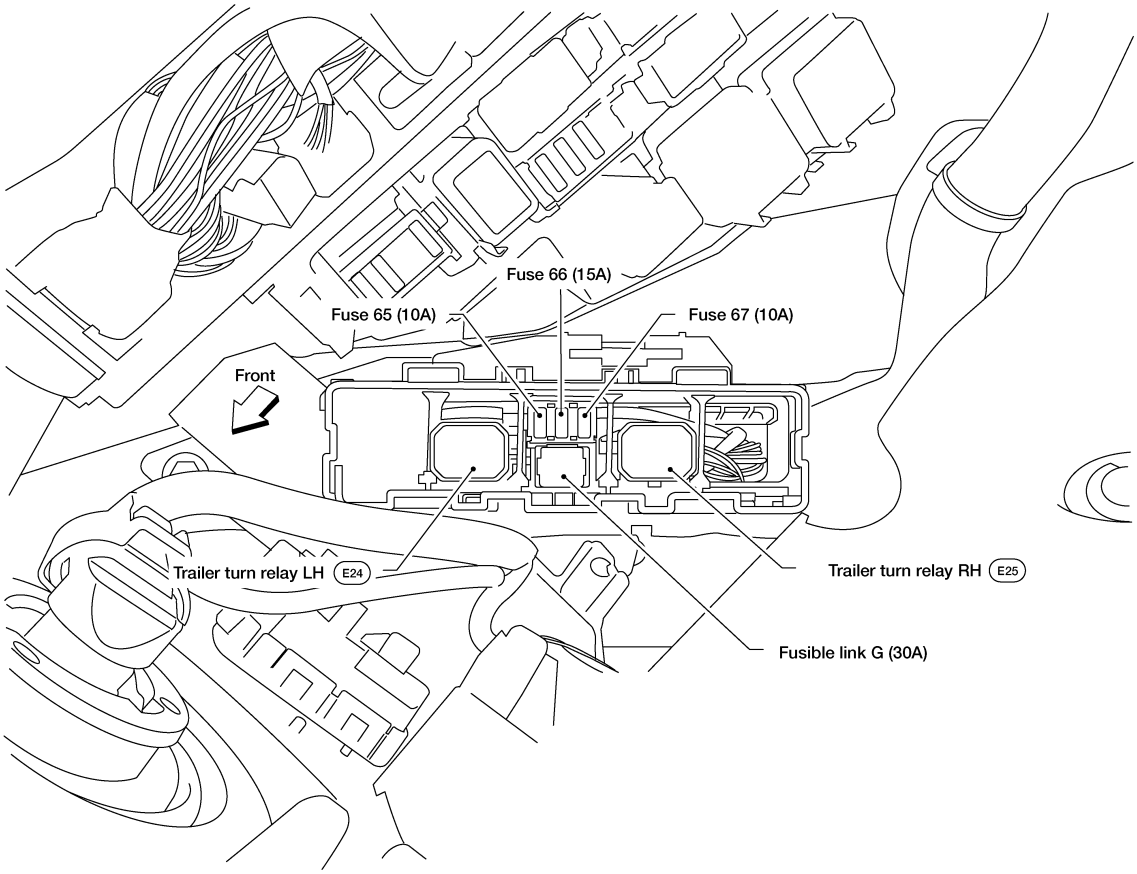
FUSE, FUSIBLE LINK AND RELAY BOX 2



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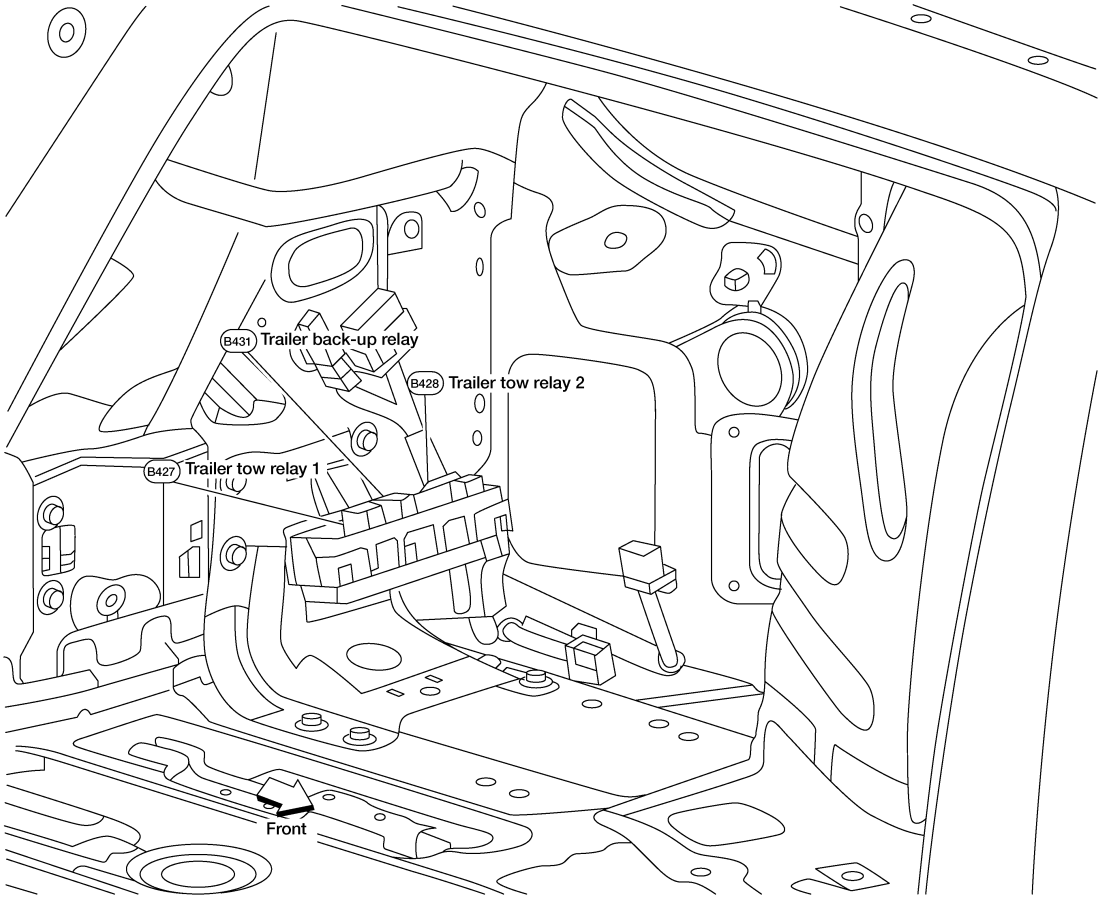
TRAILER RELAY BOX

View with luggage side lower finisher LH removed



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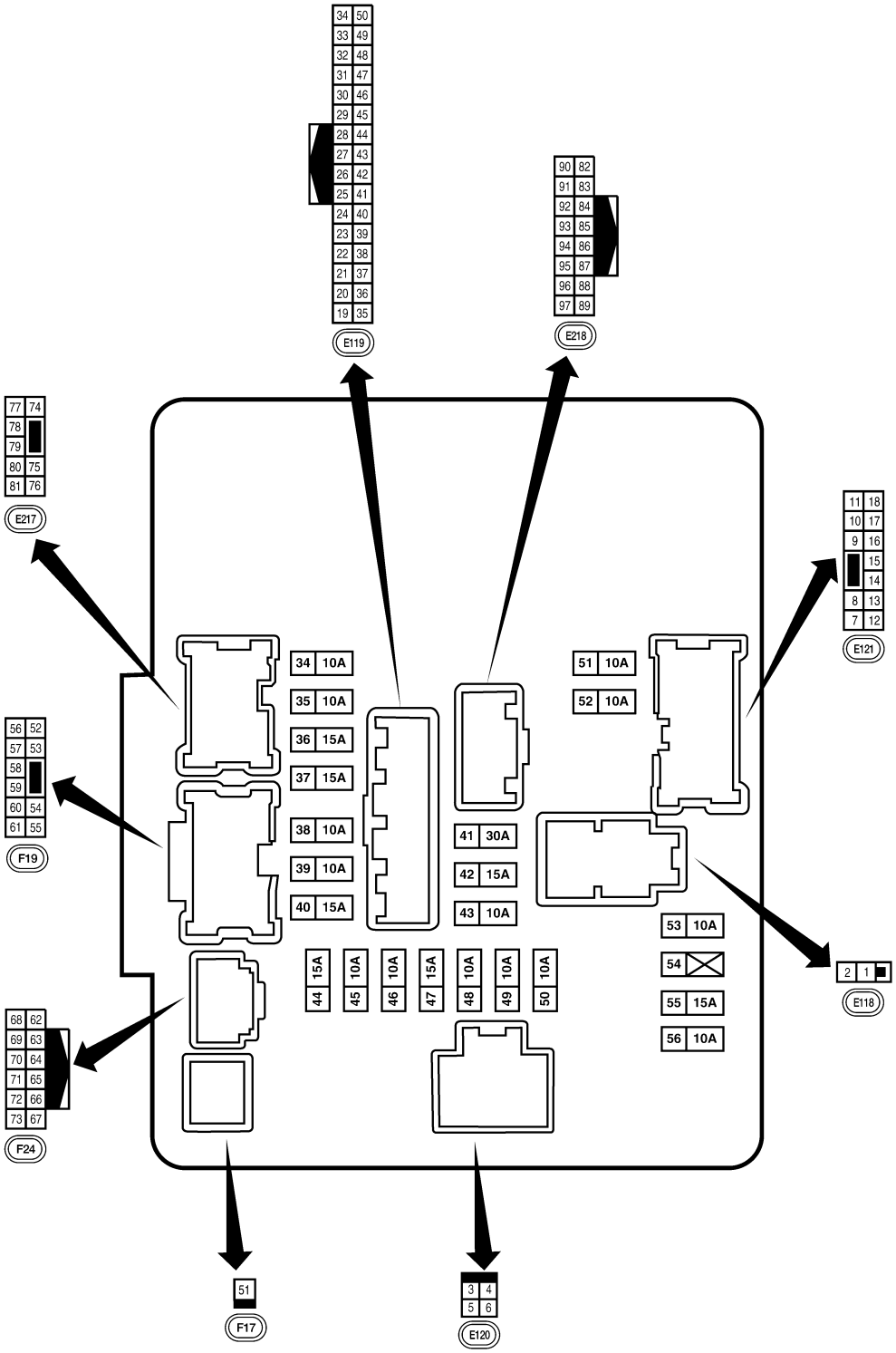
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

IPDM E/R Terminal Arrangement

INFOID:0000000011151117



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BASIC INSPECTION

BATTERY

How to Handle Battery

INFOID:0000000011151118

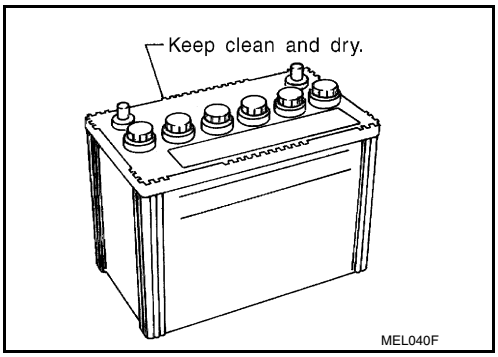
CAUTION:

- **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.**

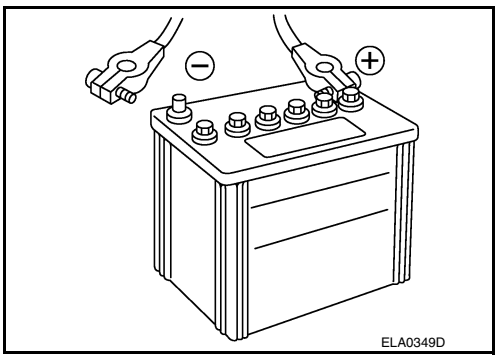
METHODS OF PREVENTING OVER-DISCHARGE

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:0000000011151119

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.

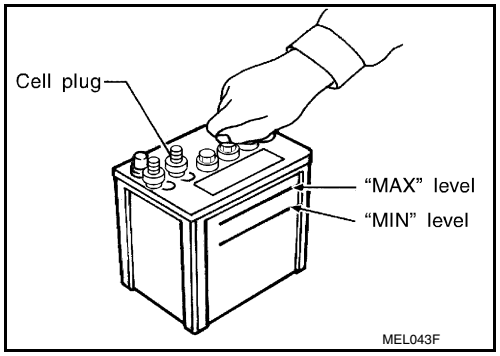
BATTERY DIAGNOSIS WITHOUT EXP-800 NI OR GR8-1200 NI

Check Electrolyte Level

WARNING:

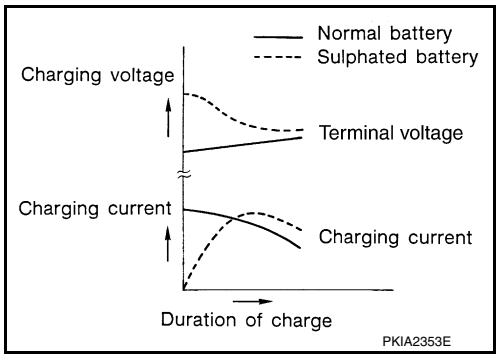
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention. Failure to do this may cause personal injury or damage to clothing or the painted surfaces.

- 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.**



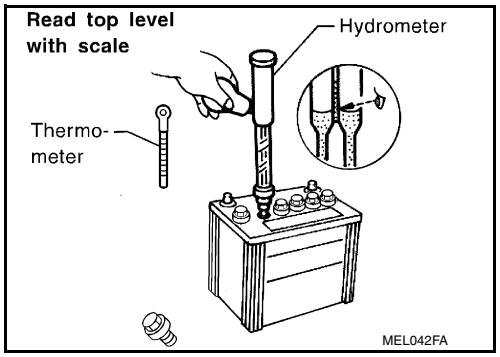
Specific Gravity Check

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 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

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL

ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement

INFOID:0000000011151120

Required Procedure After Battery Disconnection

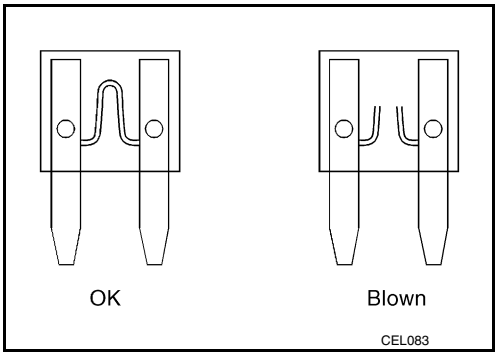
System	Item	Reference
Engine Control System	Idle Air Volume Learning	EC-160 (USA and Canada) EC-661 (Mexico)
Brake Control System	Steering Angle Sensor Neutral Position	BRC-61 (Type 1) BRC-190 (Type 2)
Door & Lock	Calibration Of Automatic Back Door Position Information	DLK-116
Power Window Control System	Power Window System Initialization	PWC-93
Roof	Moonroof Memory Reset/Initialization Sunshade Memory Reset/Initialization	RF-24
Automatic Drive Positioner	Automatic Drive Positioner System Initialization	Refer to Owner's Manual.
Heater & Air Conditioning Control System	Temperature Setting Trimmer (front)	HAC-78
	Temperature Setting Trimmer (rear)	HAC-79
	Foot Position Setting Trimmer	HAC-78
	Inlet Port Memory Function (FRE)	HAC-79
	Inlet Port Memory Function (REC)	HAC-79
Audio, Visual & Navigation System	Audio (Radio Preset)	Refer to Owner's Manual.
	Navigation System	Refer to Owner's Manual.

FUSE INSPECTION

How To Check

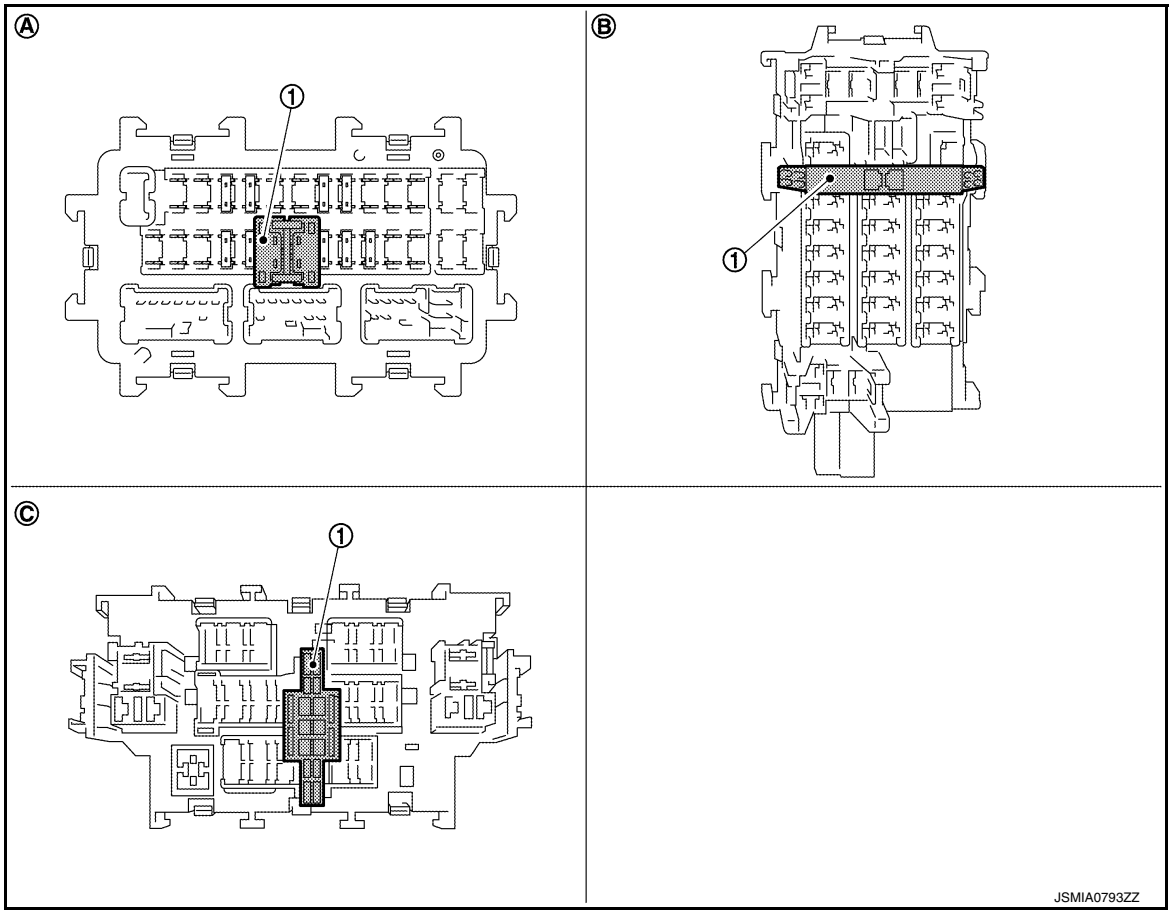
INFOID:0000000011240698

- 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

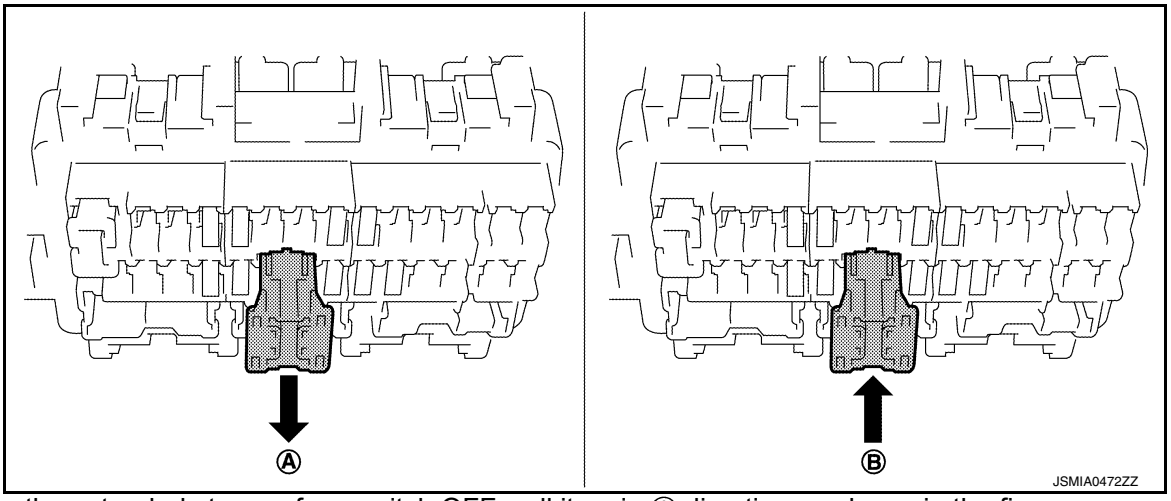
Remove the extended storage fuse switch if it causes the interference when checking fuses.

How To Extended Storage Fuse Switch ON/OFF

CAUTION:

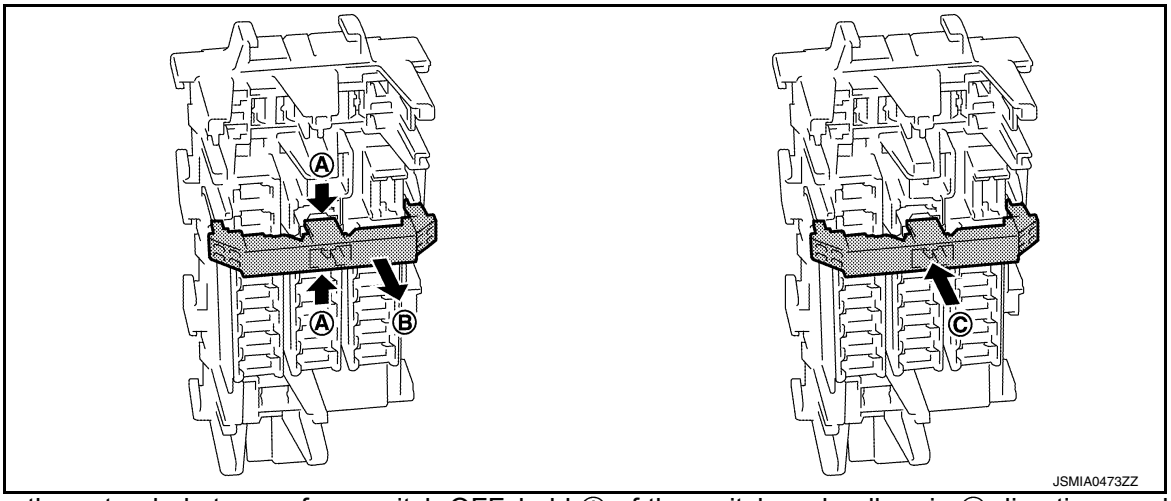
- **Turn the ignition switch OFF when operating the extended storage fuse switch.**
- **Under normal conditions, keep the extended storage fuse switch in ON state. Never operate the extended storage fuse switch except when necessary.**

• Type A



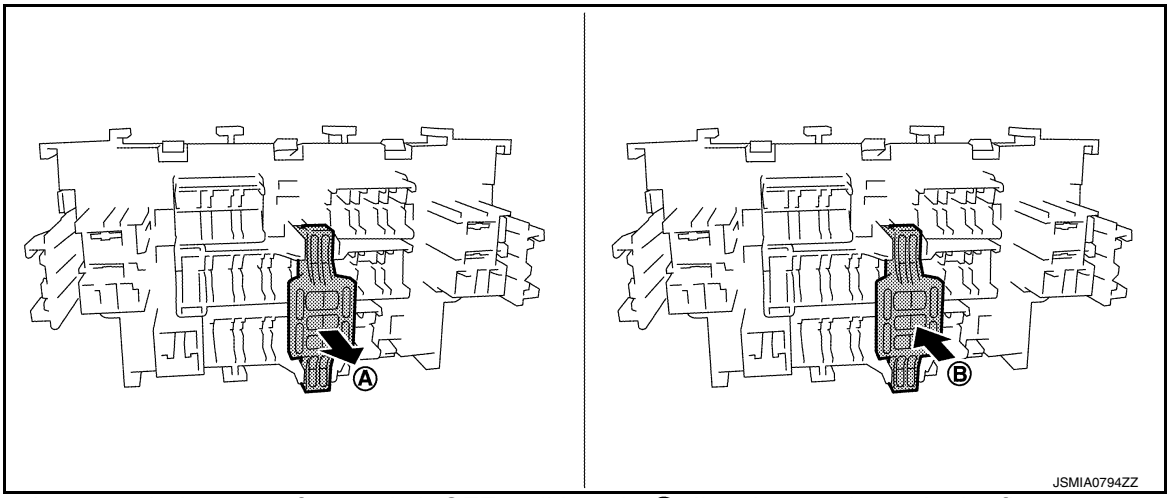
- To turn the extended storage fuse switch OFF, pull it up in Ⓐ direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in Ⓑ direction as shown in the figure.

• Type B



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

• Type C

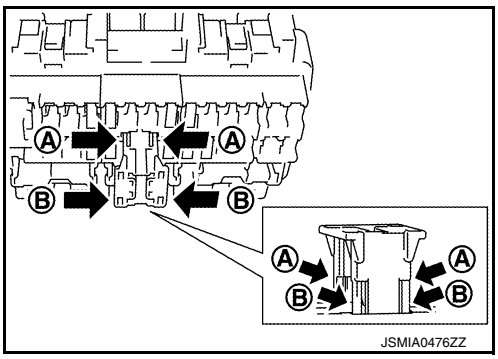


- To turn the extended storage fuse switch OFF, pull it up in Ⓐ direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in Ⓑ direction as shown in the figure.

How To Remove Extended Storage Fuse Switch

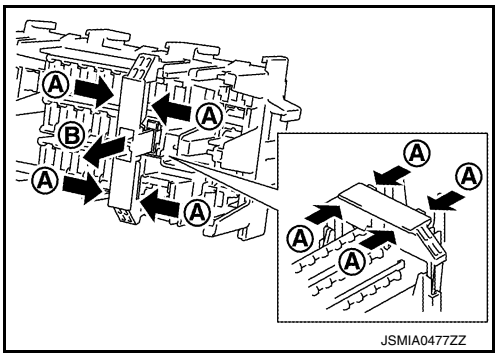
Type A

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

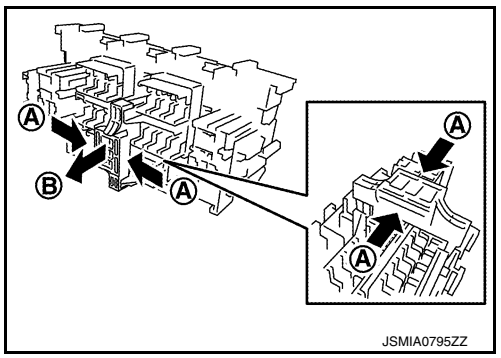
Type B
1. Turn the ignition switch OFF.
2. Turn the extended storage fuse switch OFF.
3. Hold Ⓐ and pull up the extended storage fuse switch hard in Ⓑ direction.



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.

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



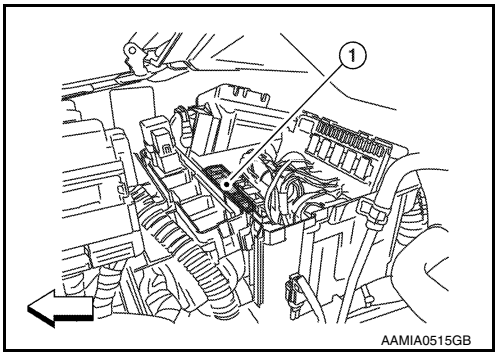
CAUTION:
Never use fuse for bus bar.
NOTE:
- Extended storage fuse switch and bus bar are removed together. Remove bus bar from extended storage fuse switch, if necessary.
- Install removed bus bar to fuse block.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

FUSIBLE LINK INSPECTION

Fusible Link

INFOID:0000000011240699

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



1 : Fusible link

⇦: Vehicle front

CAUTION:

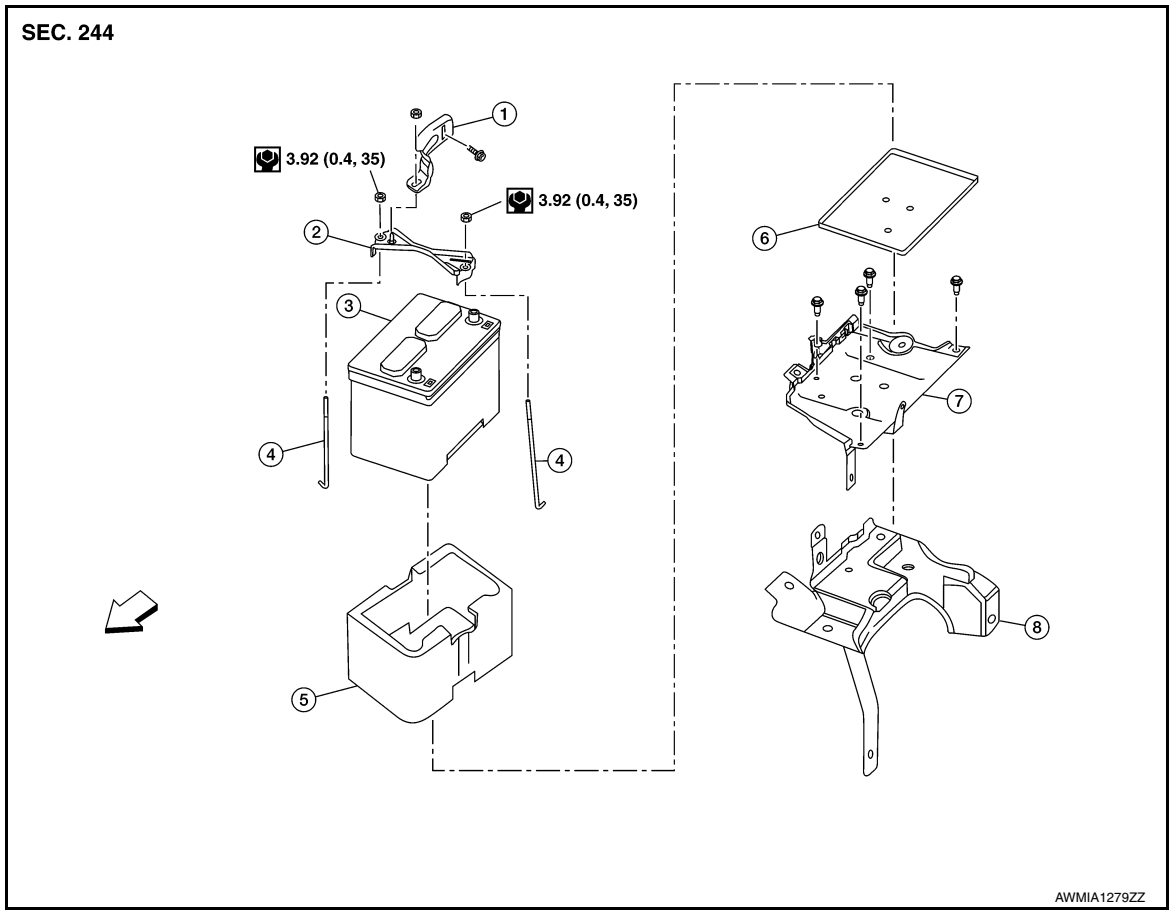
- **If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.**
- **Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any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

REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:0000000011151121



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

Removal and Installation

INFOID:0000000011151122

REMOVAL

1. Remove cover of battery positive terminal.
2. Loosen battery terminal nuts and disconnect both battery negative and positive terminals.
   CAUTION:
   When disconnecting, disconnect the battery negative terminal first.
3. Remove upper ECM bracket bolts and upper ECM bracket.
4. Remove battery frame nuts and battery frame and battery rods.
5. Remove battery cover.
6. Remove battery.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Replace the 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-89, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

BATTERY TRAY

Removal and Installation

INFOID:0000000011151123

REMOVAL

1. Remove battery and battery tray liner. Refer to PG-95, "Removal and Installation".
2. Remove air cleaner assembly. Refer to EM-24, "Removal and Installation".
3. Disconnect harness connector and then remove ECM.
4. Disconnect the harness connector from the transmission control module (TCM). Refer to TM-198, "Removal and Installation".
5. Remove the ECM bracket.
6. Remove the battery tray bolts and battery tray.
7. Remove the battery tray support bolts and battery tray support.

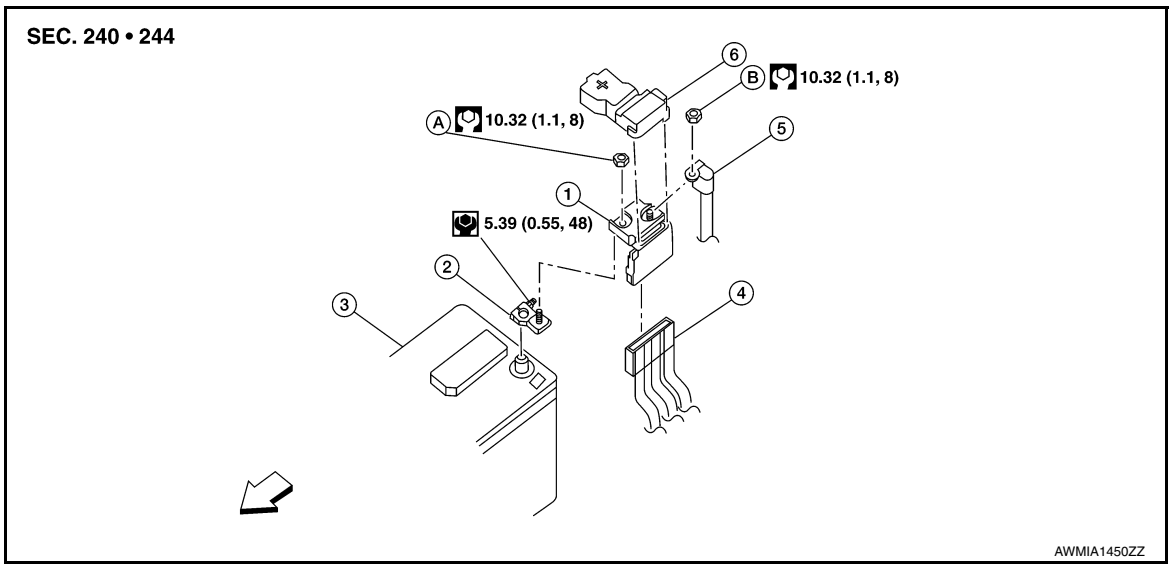
INSTALLATION

Installation is in the reverse order of removal.
Reset electronic systems as necessary. Refer to PG-89, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:0000000011151124



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

Removal and Installation

INFOID:0000000011151125

REMOVAL

1. Disconnect both battery negative and positive terminals. Refer to PG-95, "Exploded View".
   CAUTION:
   To prevent damage to the parts, disconnect the battery negative terminal first.
2. Disconnect positive cable from fusible link box (battery).
3. Disconnect harness connectors and separate positive terminal from fusible link box (battery).

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

Replace the fusible link box battery if it has been dropped or sustained and impact.
To install the battery, carefully read the following instructions:

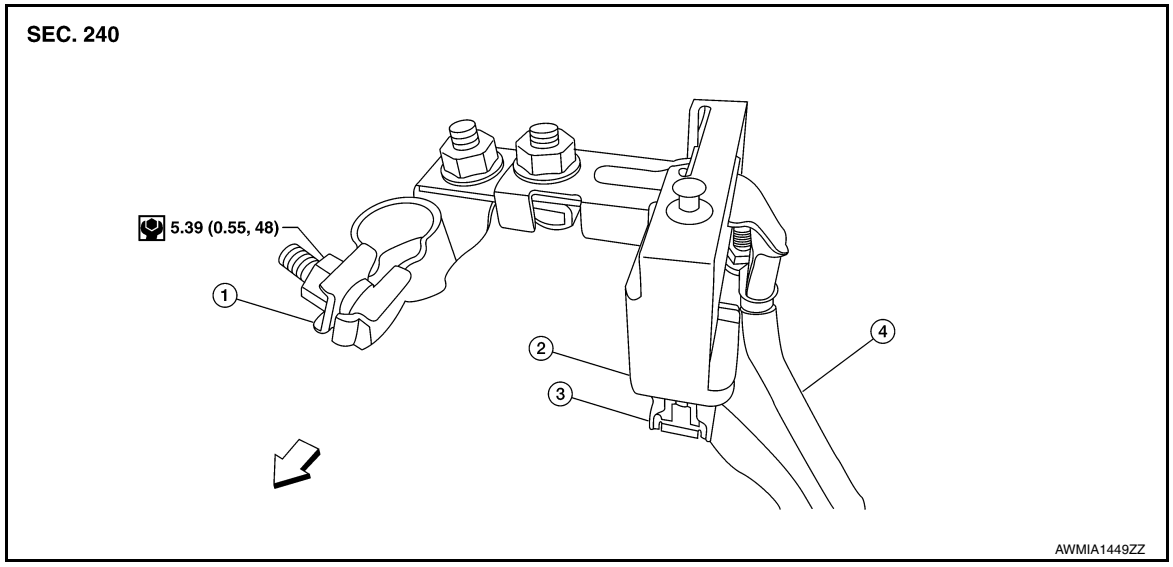
- **To prevent damage to the parts, connect the battery cable to the positive terminal first.**
- **After connecting battery cables, to securely supply battery voltage, ensure that they are tightly clamped to battery terminals for good contact.**
- **To securely supply battery voltage, check battery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

Reset electronic systems as necessary. Refer to PG-89, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

BATTERY CURRENT SENSOR

Exploded View

INFOID:0000000011151126



1. Terminal
2. Current sensor
3. Harness connector
4. Negative cable
⇦ Front

Removal and Installation

INFOID:0000000011151127

REMOVAL

1. Disconnect negative terminal from the battery. Refer to PG-95, "Exploded View".
2. Disconnect harness connector from current sensor.
3. Remove nut and separate current sensor from the negative terminal.
4. Remove nut and separate negative cable from the current sensor and remove the current sensor.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

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

To install the battery, carefully read the following instructions:

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

Reset electronic systems as necessary. Refer to PG-89, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:0000000011151128

Type		GR35
20 hour rate capacity	[V–Ah]	12–60
Cold cranking current (For reference value)	[A]	550