SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

PRECAUTION

PRECAUTIONS

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

INFOID:0000000012875204

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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 Air Bag Diagnosis Sensor Unit or other Air Bag 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 or batteries and wait at least three minutes before performing any service.**

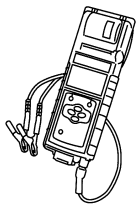
PREPARATION

PREPARATION

Special Service Tools

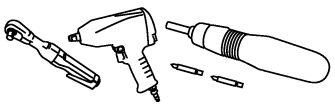
INFOID:0000000012875205

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

Tool number (TechMate No.) Tool name	Description
— (165-GR8-1200KIT-NI) Nissan battery and electronics tester  AWIIA1239ZZ	Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.
— (165-EXP-800-NI) Midtronic hand-held battery tester  JSMIA0806ZZ	Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.

Commercial Service Tool

INFOID:0000000012875206

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

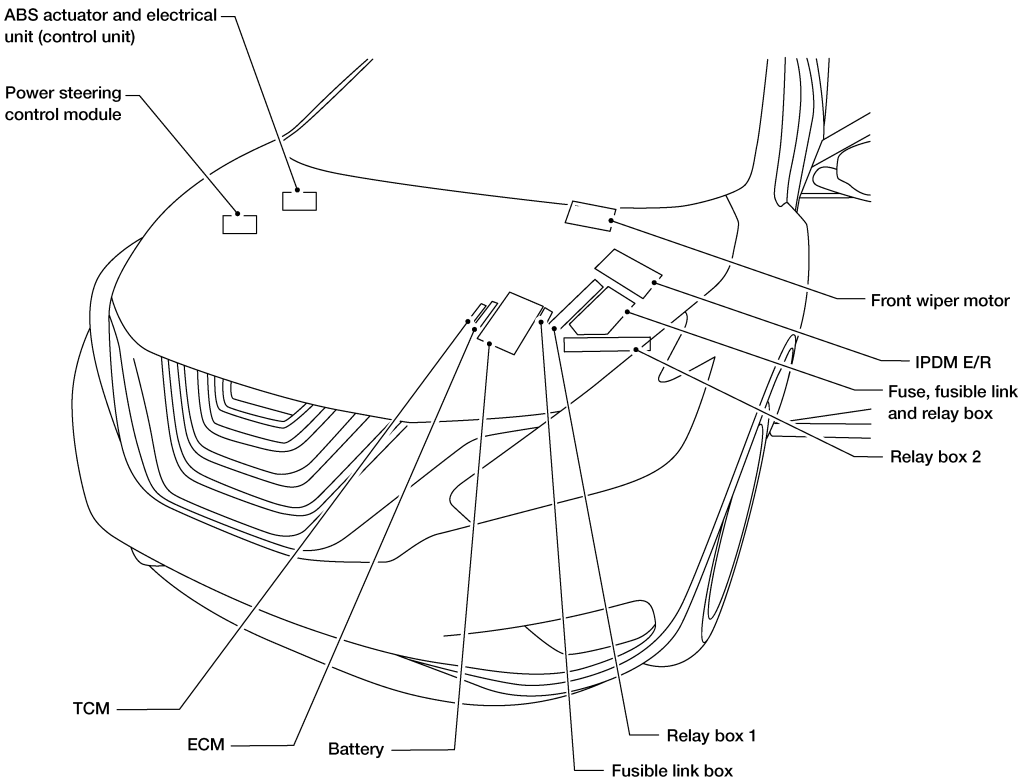
SYSTEM DESCRIPTION

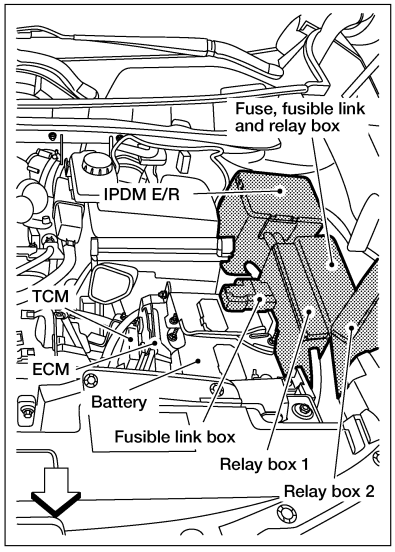
ELECTRICAL UNITS LOCATION

Electrical Units Location

INFOID:0000000012875207

ENGINE COMPARTMENT





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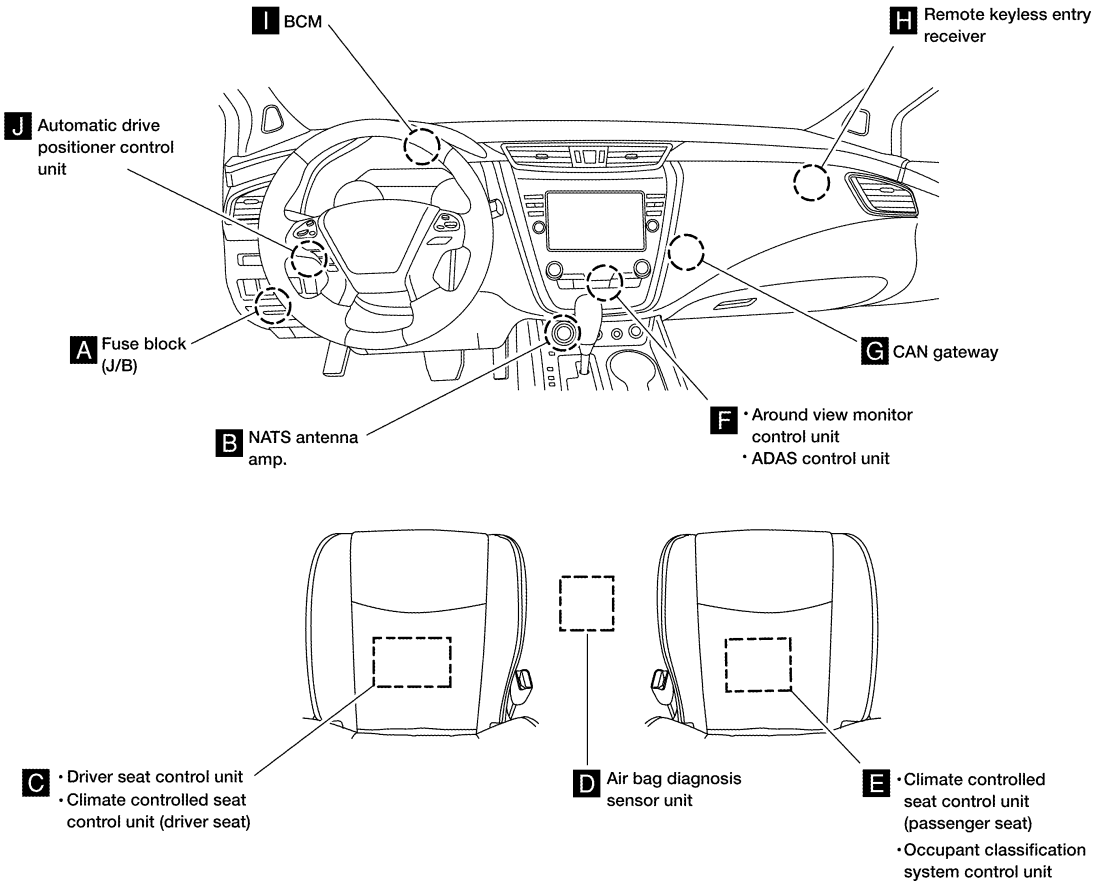

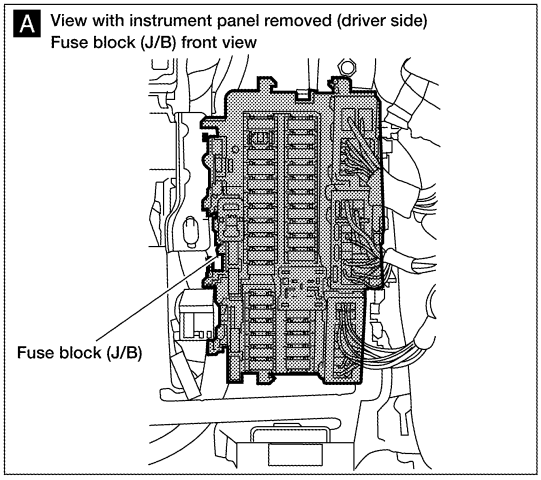

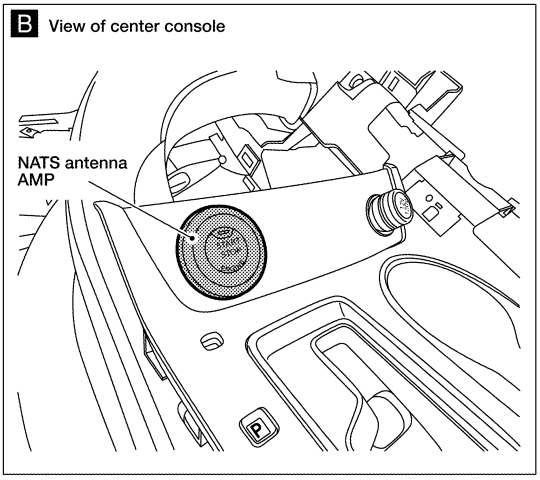

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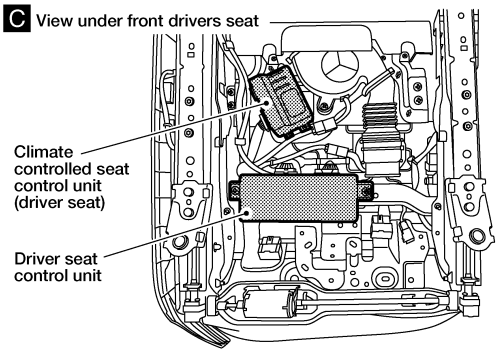
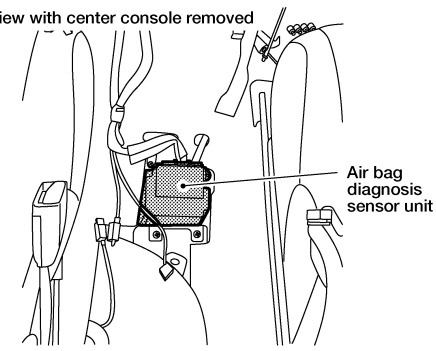
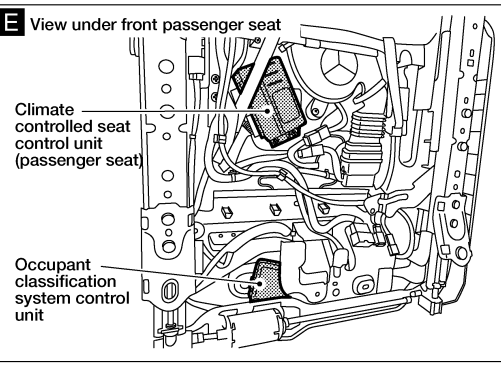
C View under front drivers seat



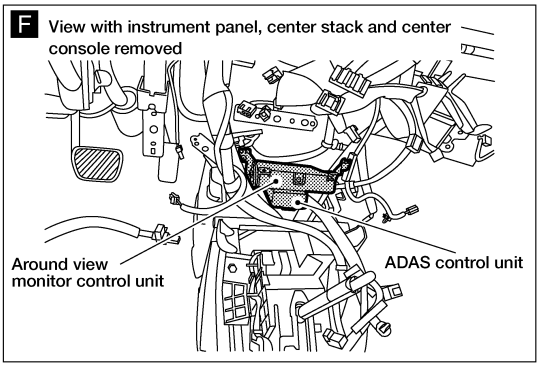
D View with center console removed



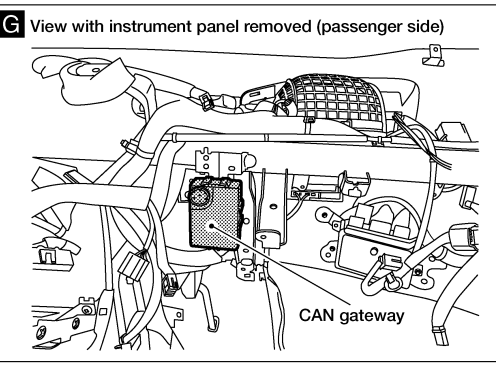
E View under front passenger seat



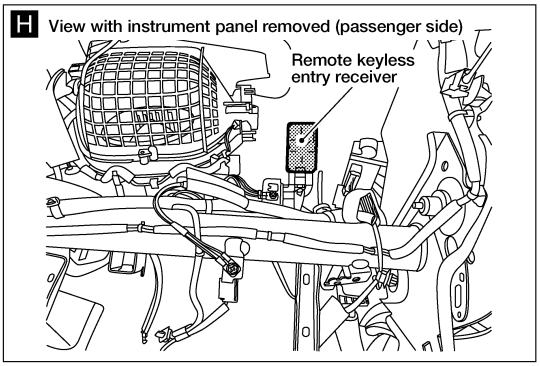
F View with instrument panel, center stack and center console removed



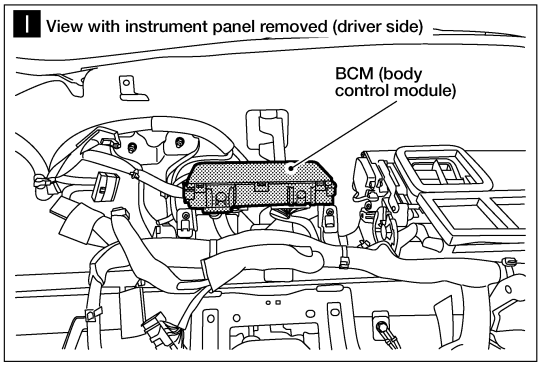
G View with instrument panel removed (passenger side)



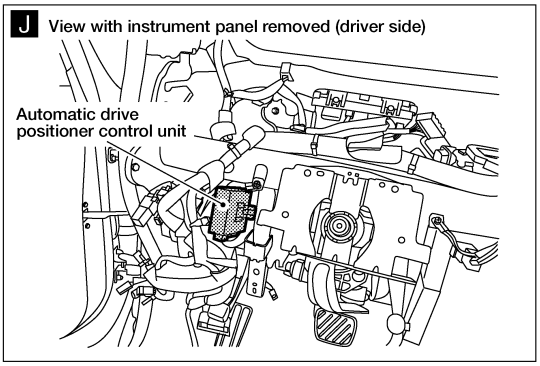
H View with instrument panel removed (passenger side)



I View with instrument panel removed (driver side)



J View with instrument panel removed (driver side)



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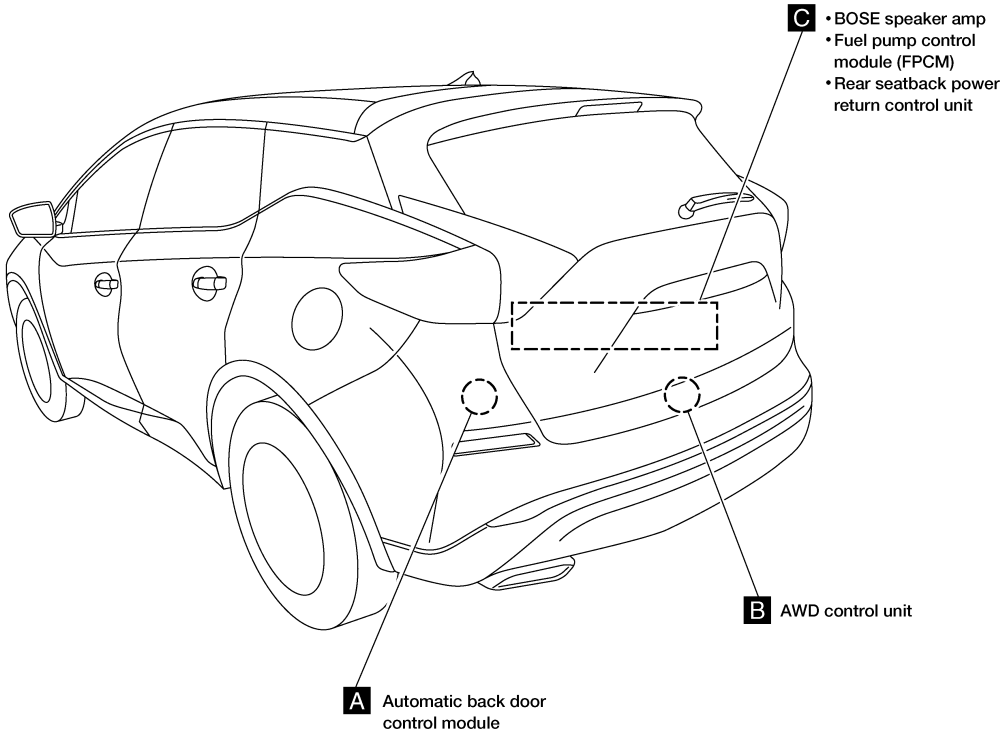

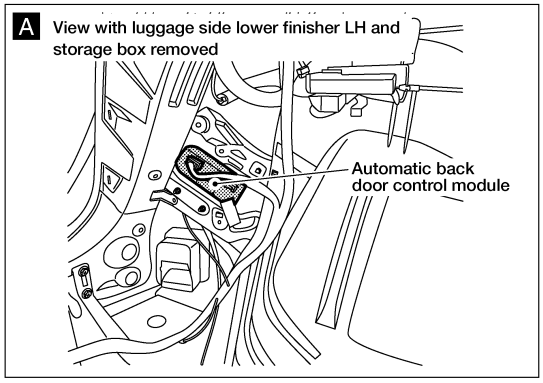

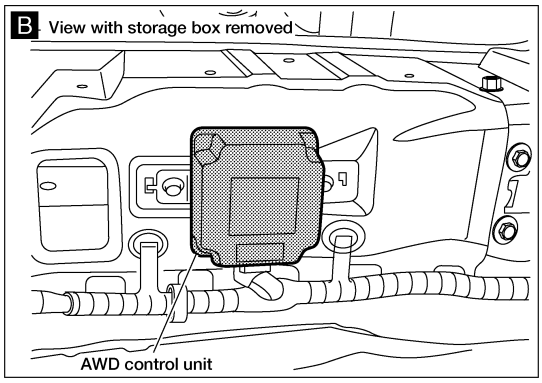

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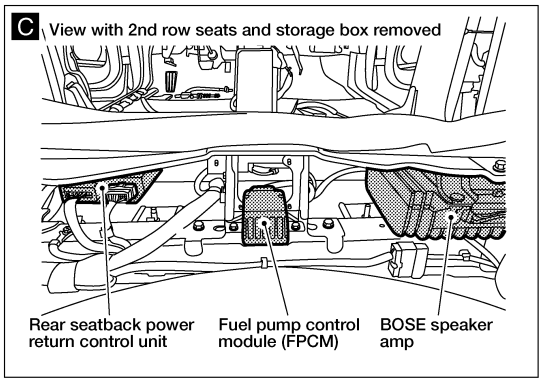

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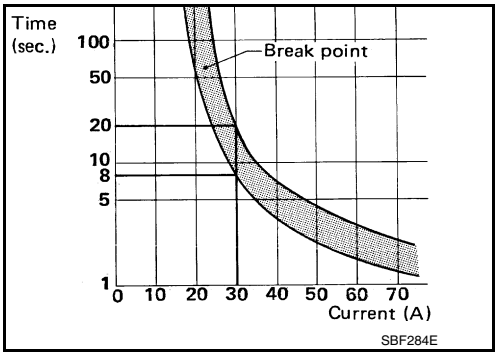
COMPONENT PARTS

Circuit Breaker (Built Into BCM)

INFOID:0000000012875208

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
- Power seat
- Power lumbar
- Power sunshade

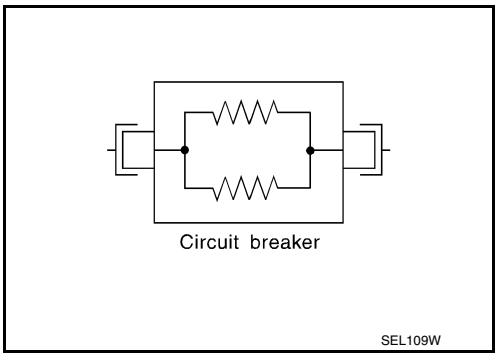


Circuit Breaker (External to BCM)

INFOID:0000000012875209

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 memory seat
- Power back door



Harness Connector

INFOID:0000000012875210

HARNESS CONNECTOR (TAB-LOCKING TYPE)

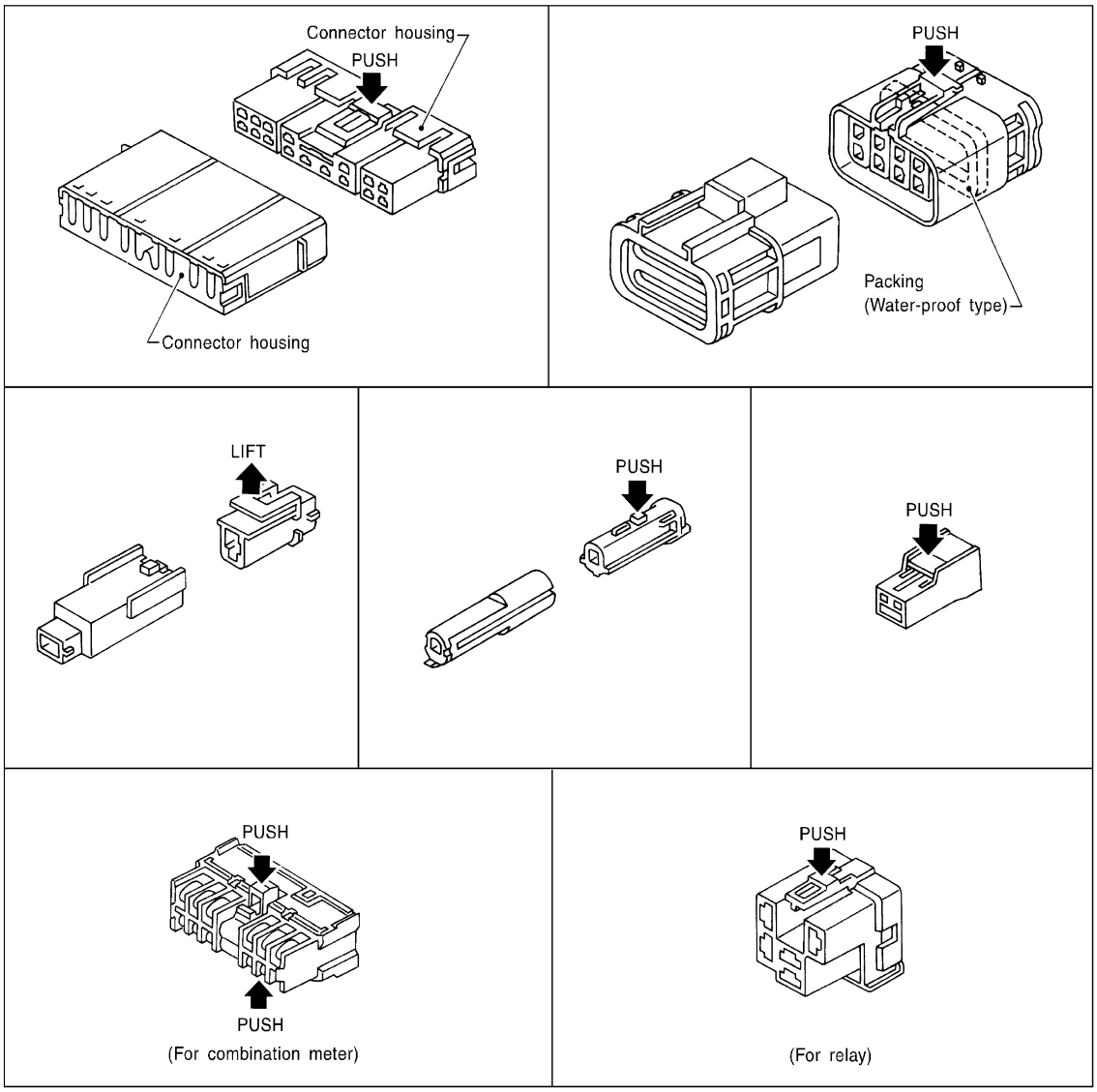
- The tab-locking type connectors help prevent accidental looseness or disconnection.
- The tab-locking type connectors are disconnected by pushing or lifting the locking tab(s). Refer to the figure below.

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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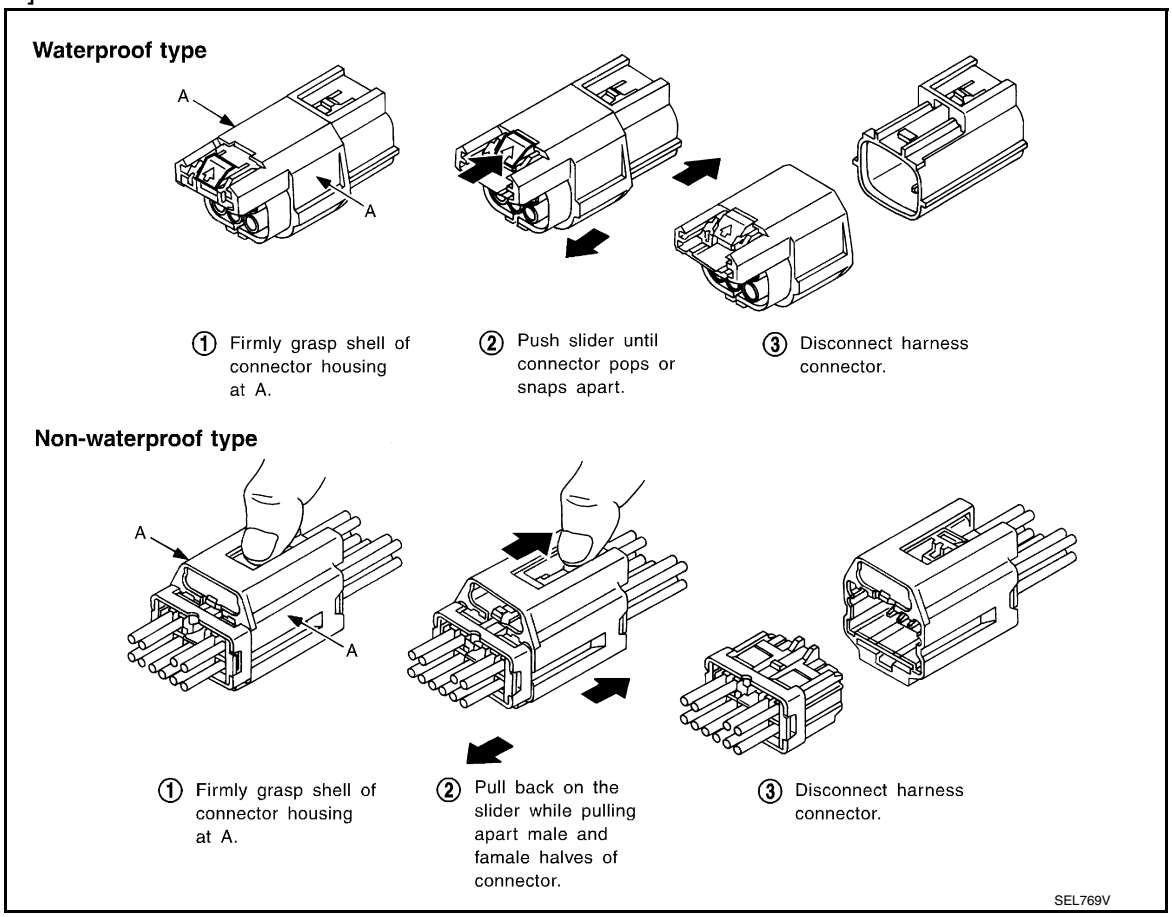
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]

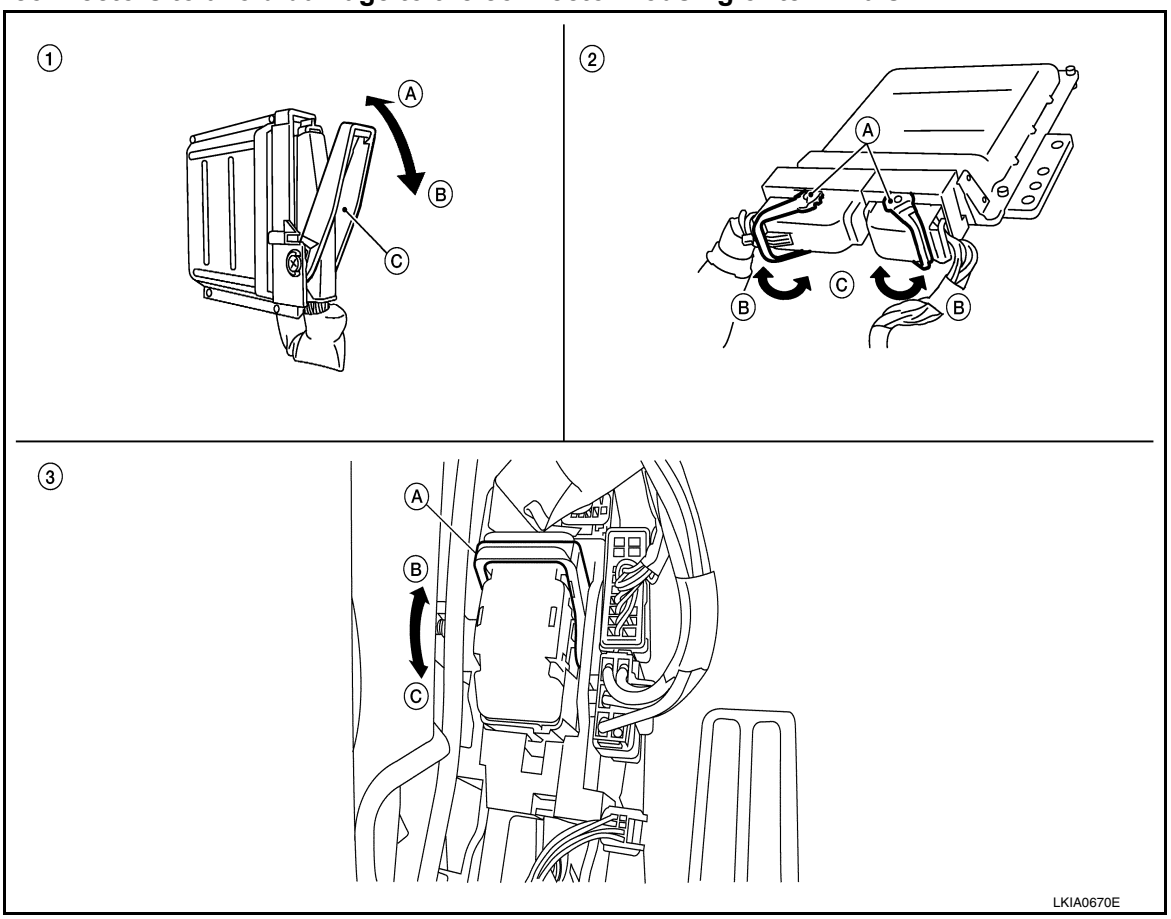


HARNESS CONNECTOR (LEVER LOCKING TYPE)

- 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.**



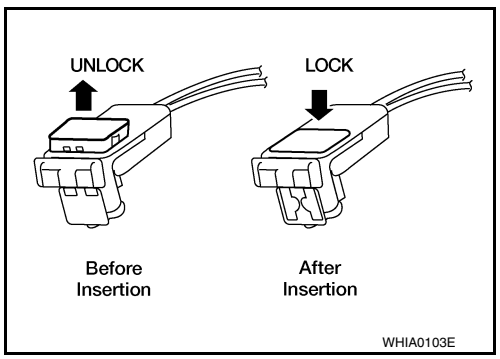
1. Control unit with single lever
   A. Fasten
   B. Loosen
   C. Lever
2. Control unit with dual lever
   A. Lever
   B. Fasten
   C. Loosen
3. SMJ connector
   A. Lever
   B. Fasten
   C. Loosen

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.**

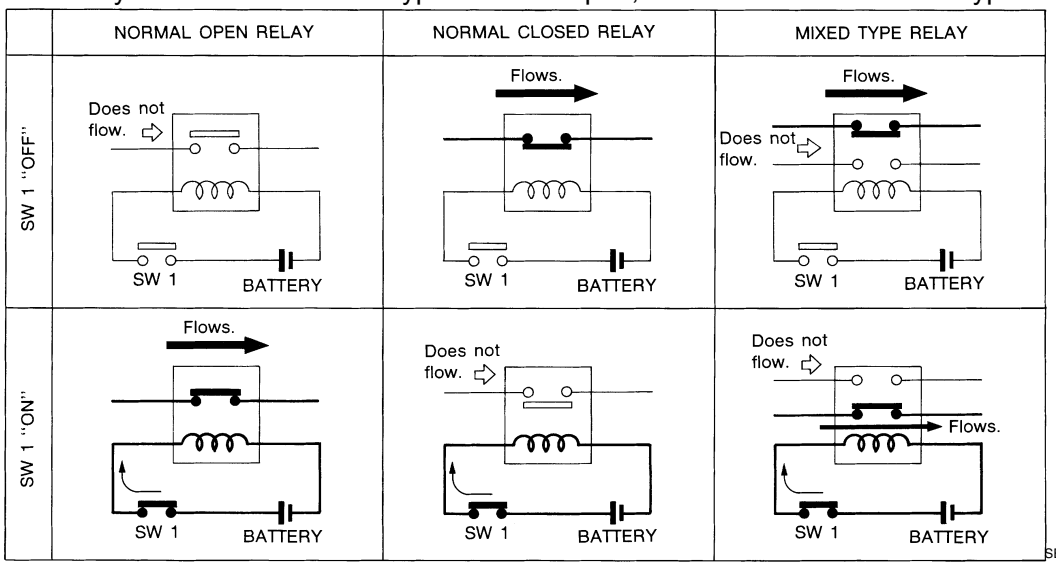


Standardized Relay

INFOID:0000000012875211

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

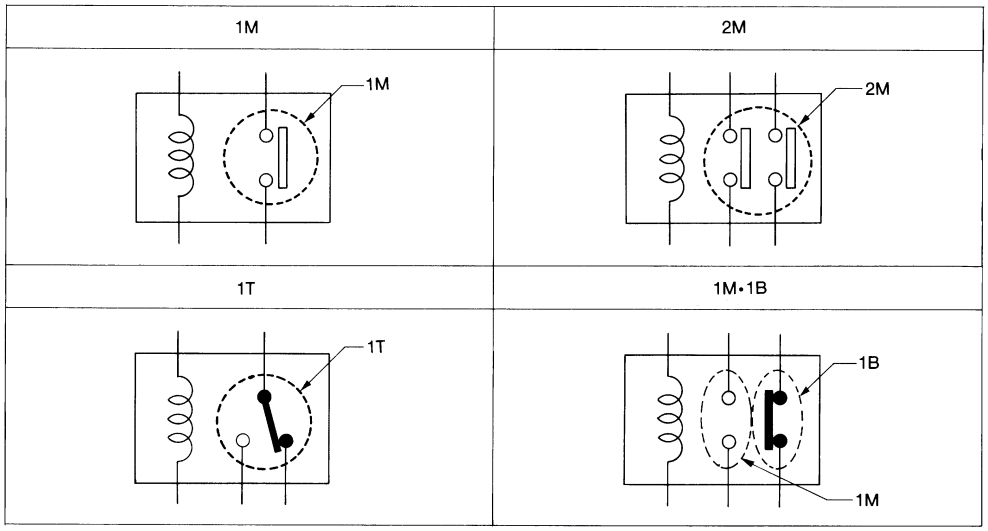
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



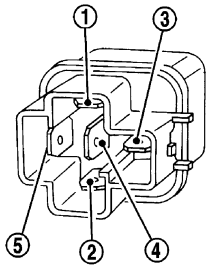
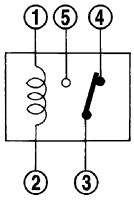
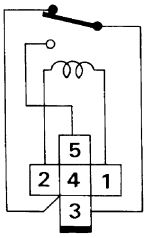
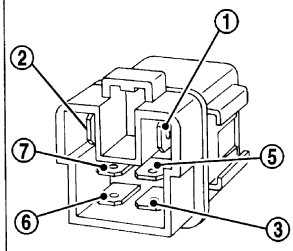
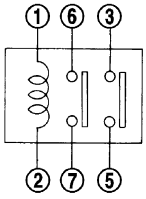
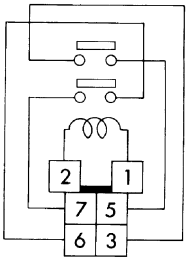
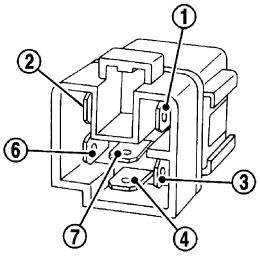
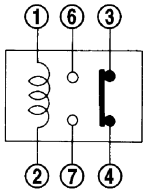
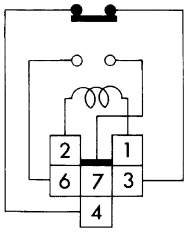
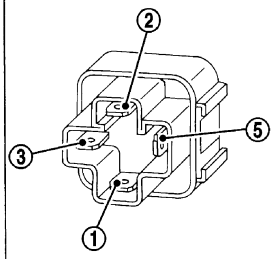
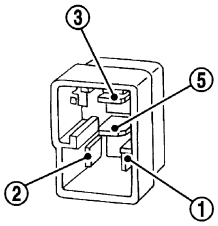
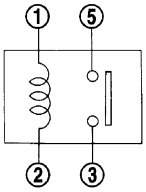
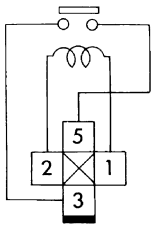
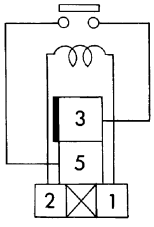
SEL881H

TYPE OF STANDARDIZED RELAYS

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



SEL882H

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.

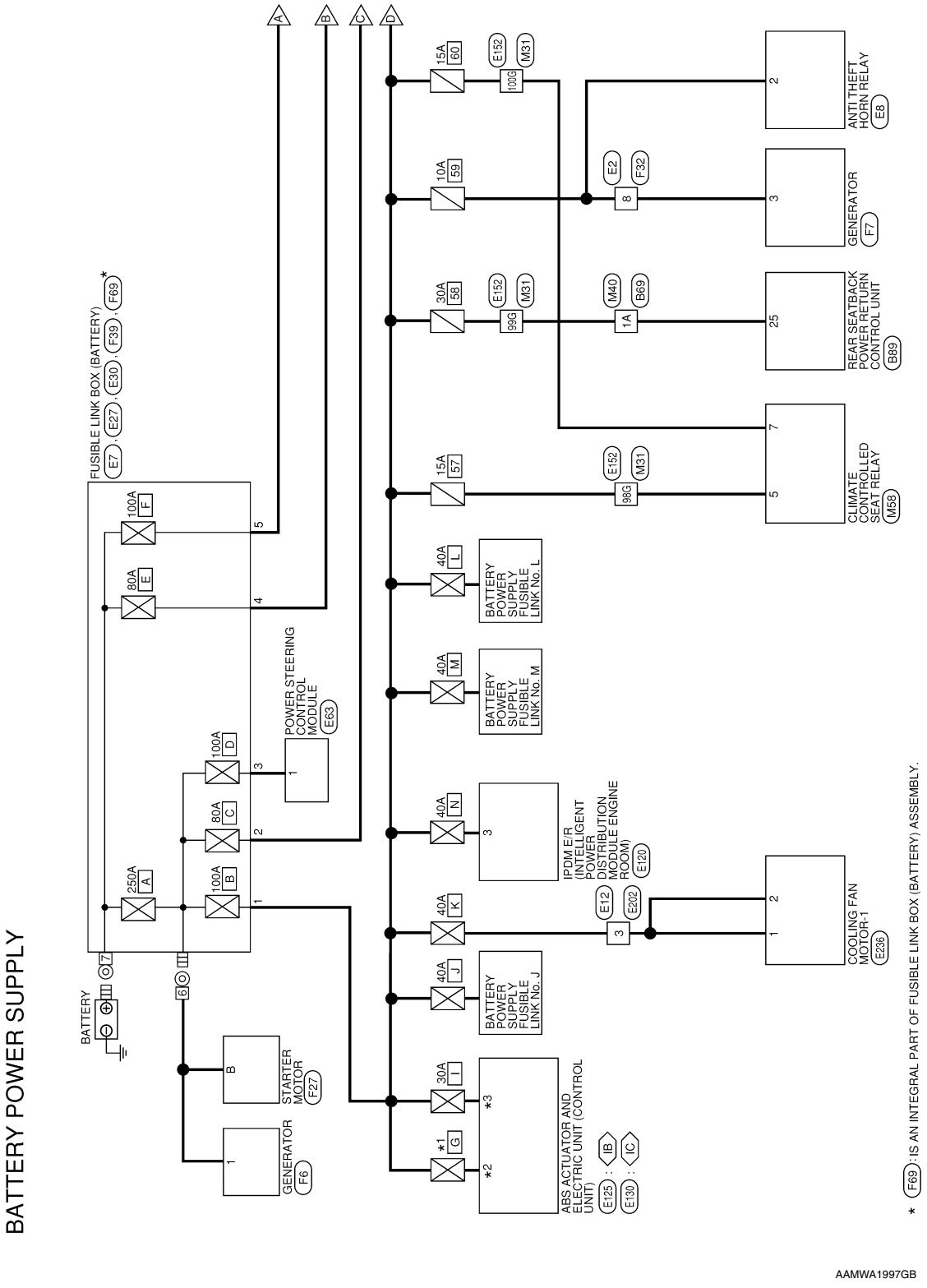
SEL188W

WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

INFOID:0000000013326335



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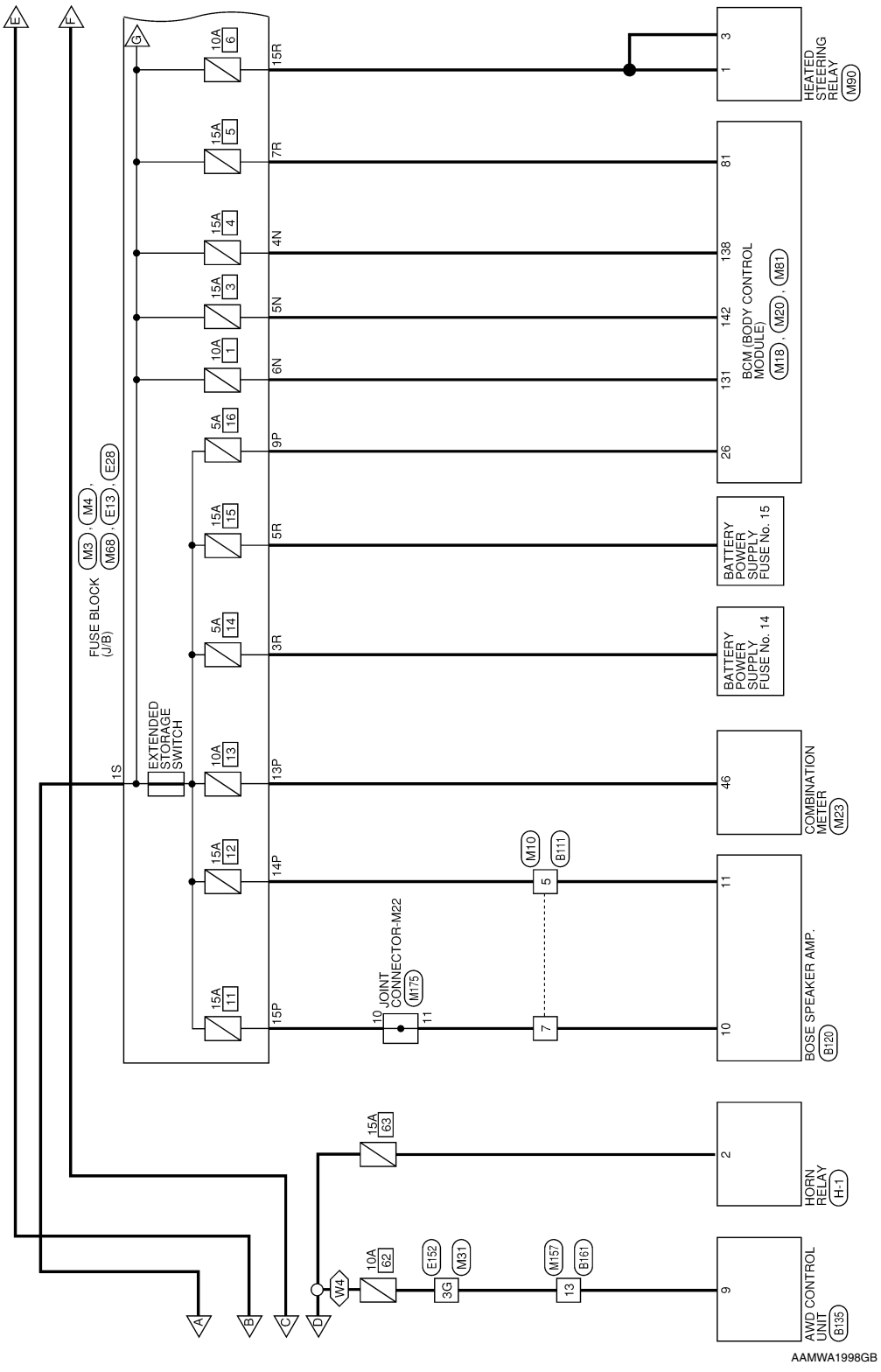
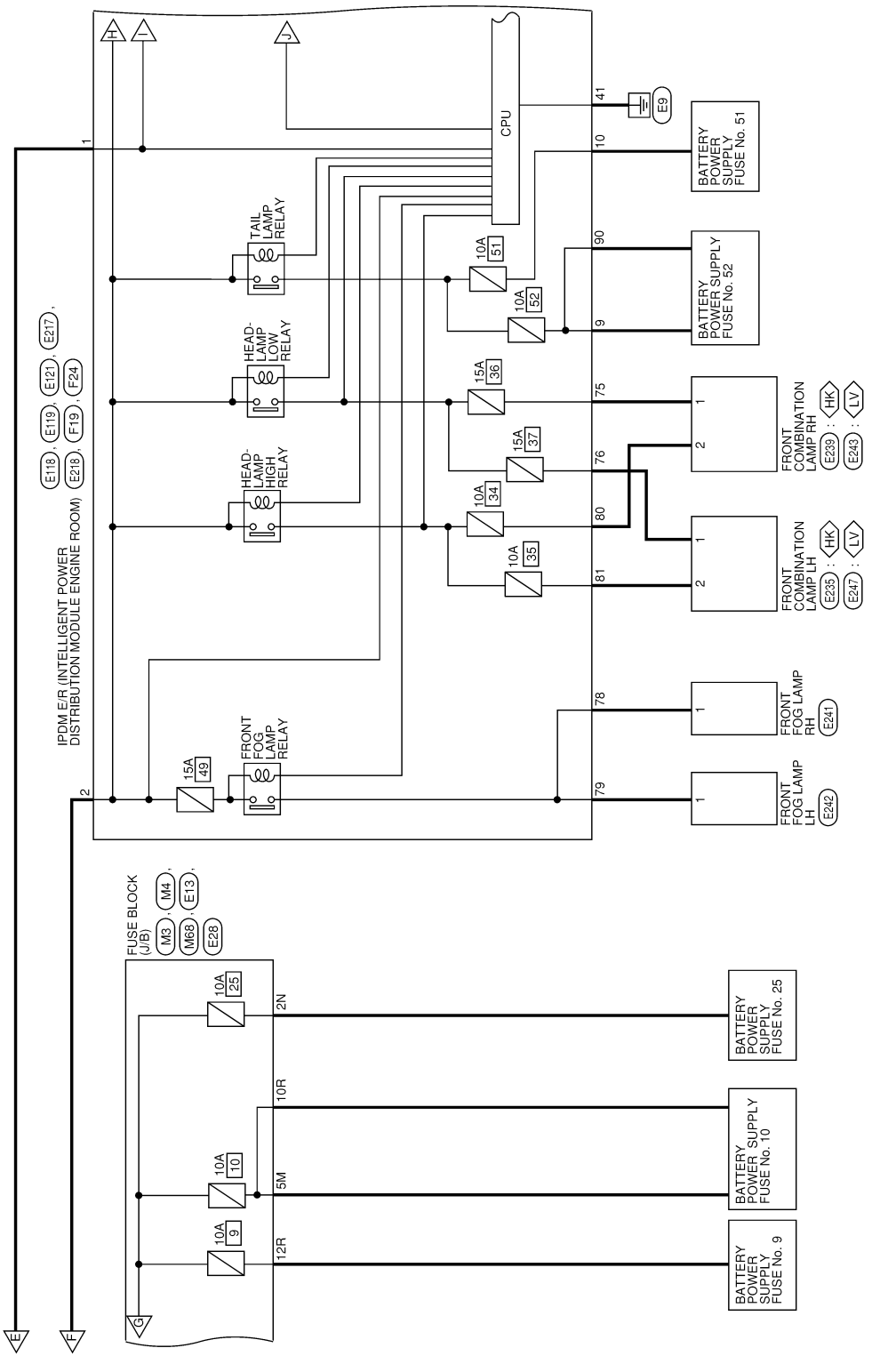

FUSE BLOCK (J/B)
M3, M4, M68, E13, E28
EXTENDED STORAGE SWITCH
1S
10A 6
15A 5
15A 4
15A 3
10A 1
5A 16
15A 15
5A 14
10A 13
15A 12
15A 11
15A 63
10A 62
15R
7R
4N
5N
6N
9P
5R
3R
13P
14P
15P
W4
HEATED STEERING RELAY M90
BCM (BODY CONTROL MODULE) M18, M20, M81
BATTERY POWER SUPPLY FUSE No. 15
BATTERY POWER SUPPLY FUSE No. 14
COMBINATION METER M23
BOSE SPEAKER AMP. B120
JOINT CONNECTOR-M22 M175
M10 B111
HORN RELAY H-1
E152 M31
M157 B161
AWD CONTROL UNIT B135
A
B
C
D
AAMWA1998GB



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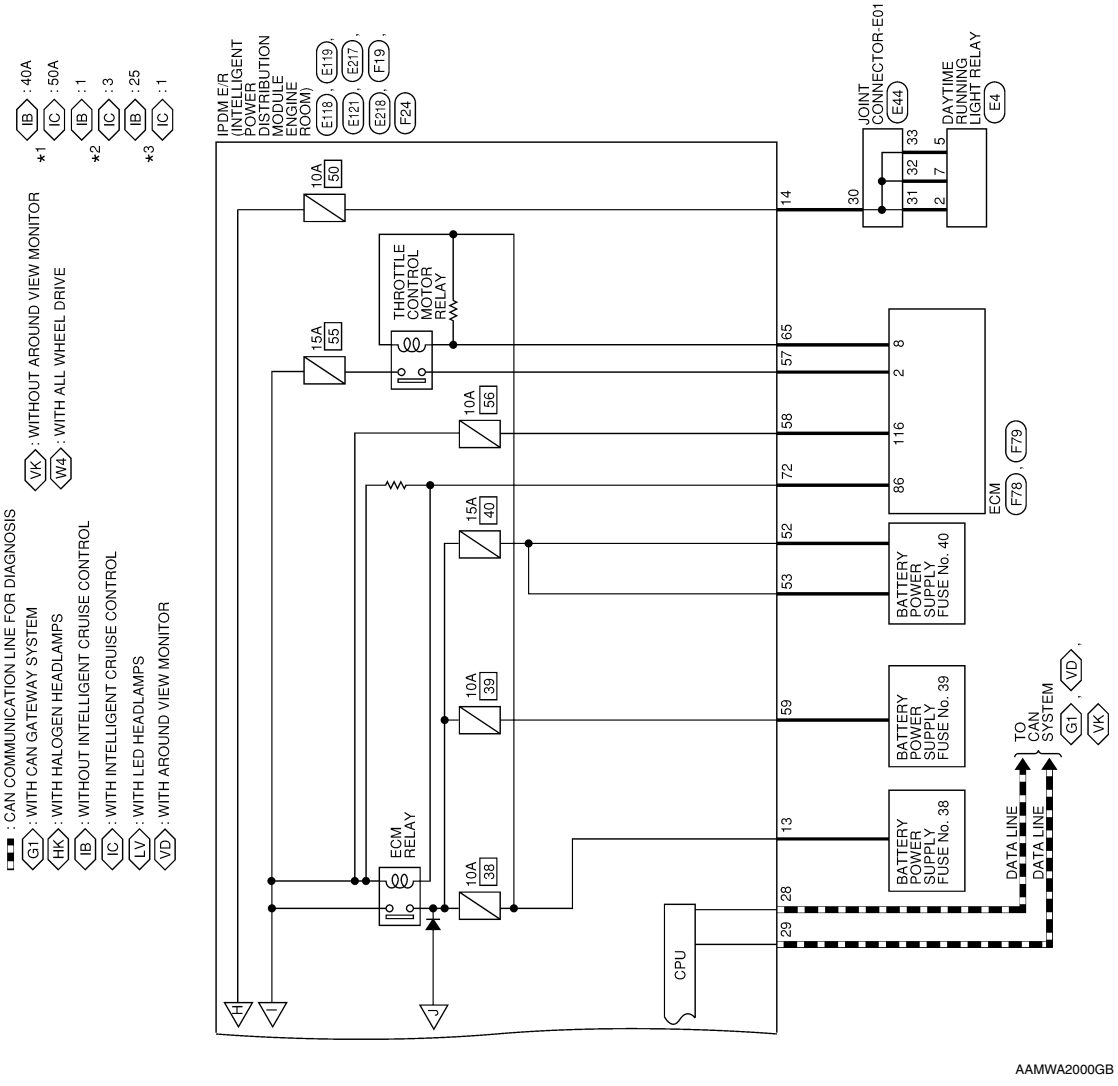

: CAN COMMUNICATION LINE FOR DIAGNOSIS
G1 : WITH CAN GATEWAY SYSTEM
HK : WITH HALOGEN HEADLAMPS
IB : WITHOUT INTELLIGENT CRUISE CONTROL
IC : WITH INTELLIGENT CRUISE CONTROL
LV : WITH LED HEADLAMPS
VD : WITH AROUND VIEW MONITOR
VK : WITHOUT AROUND VIEW MONITOR
W4 : WITH ALL WHEEL DRIVE
*1 IB : 40A
IC : 50A
*2 IB : 1
IC : 3
*3 IB : 25
IC : 1
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E119, E118, E121, E217, E218, F19, F24
JOINT CONNECTOR-E01 (E44)
DAYTIME RUNNING LIGHT RELAY (E4)
ECM (F78, F79)
THROTTLE CONTROL MOTOR RELAY
ECM RELAY
BATTERY POWER SUPPLY FUSE No. 40
BATTERY POWER SUPPLY FUSE No. 39
BATTERY POWER SUPPLY FUSE No. 38
10A 50
15A 55
10A 56
15A 40
10A 39
10A 38
CPU
DATA LINE
DATA LINE
TO CAN SYSTEM (G1, VD, VK)
AAMWA2000GB

BATTERY POWER SUPPLY CONNECTORS

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

H.S.

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

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 Type	NS16FW-CS
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	G	-
15P	SB	-

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR-CS
Connector Color	BROWN

H.S.

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

Terminal No.	Color of Wire	Signal Name
5	G	-
7	SB	-

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

H.S.

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

Terminal No.	Color of Wire	Signal Name
26	L	SHORTING INPUT

Connector No.	M20
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH24FGY-NH
Connector Color	GRAY

H.S.

92	91	90	89	88	87	86	85	84	83	82	81
104	103	102	101	100	99	98	97	96	95	94	93

Terminal No.	Color of Wire	Signal Name
81	L	BAT REAR WIPER FUSE

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

H.S.

41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56

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

Connector No.	M31
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4
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		

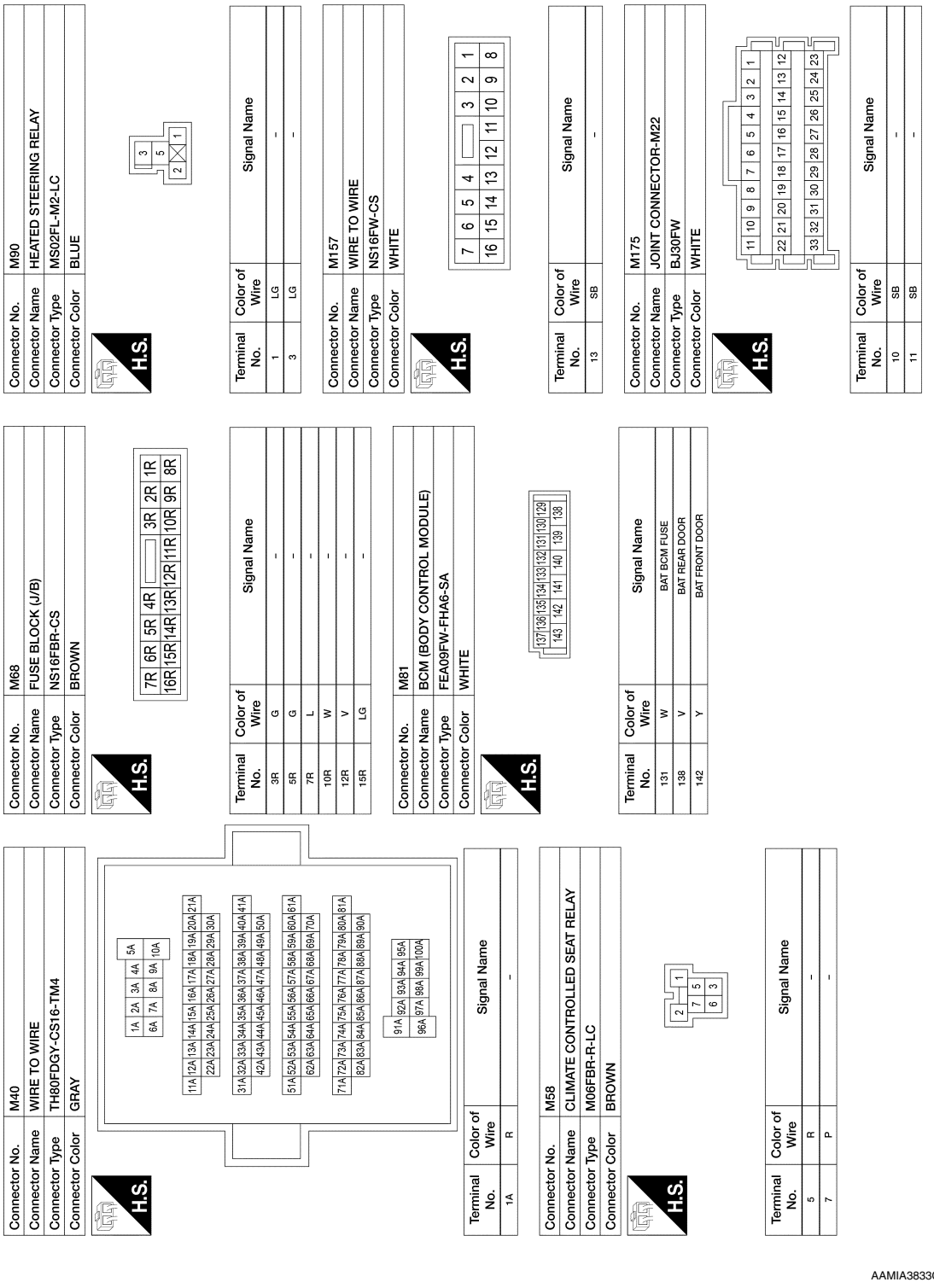
51G	52G	53G	54G	55G	56G	57G	58G	59G	60G	61G
62G	63G	64G	65G	66G	67G	68G	69G	70G		

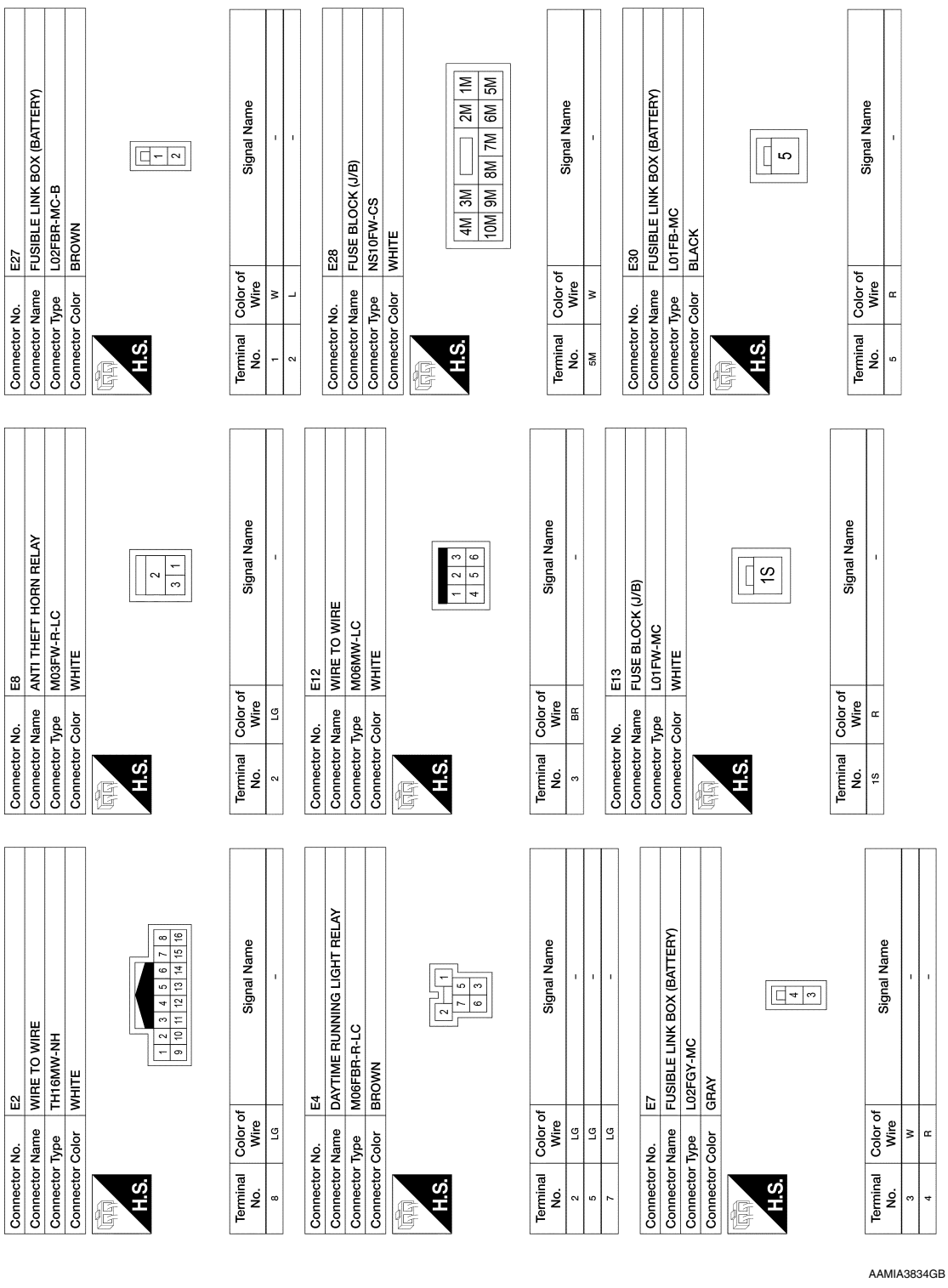
71G	72G	73G	74G	75G	76G	77G	78G	79G	80G	81G
82G	83G	84G	85G	86G	87G	88G	89G	90G		

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

Terminal No.	Color of Wire	Signal Name
3G	SB	-
98G	R	-
99G	R	-
100G	P	-

AAMIA3832GB


Connector No. M40
Connector Name WIRE TO WIRE
Connector Type TH80FDGY-CS16-TM4
Connector Color GRAY
H.S.
1A 2A 3A 4A 5A
6A 7A 8A 9A 10A
11A 12A 13A 14A 15A 16A 17A 18A 19A 20A 21A
22A 23A 24A 25A 26A 27A 28A 29A 30A
31A 32A 33A 34A 35A 36A 37A 38A 39A 40A 41A
42A 43A 44A 45A 46A 47A 48A 49A 50A
51A 52A 53A 54A 55A 56A 57A 58A 59A 60A 61A
62A 63A 64A 65A 66A 67A 68A 69A 70A
71A 72A 73A 74A 75A 76A 77A 78A 79A 80A 81A
82A 83A 84A 85A 86A 87A 88A 89A 90A
91A 92A 93A 94A 95A
96A 97A 98A 99A 100A
Terminal No. Color of Wire Signal Name
1A R -
Connector No. M68
Connector Name FUSE BLOCK (J/B)
Connector Type NS16FBR-CS
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
3R G -
5R G -
7R L -
10R W -
12R V -
15R LG -
Connector No. M81
Connector Name BCM (BODY CONTROL MODULE)
Connector Type FEA09FW-FHA6-SA
Connector Color WHITE
H.S.
137 136 135 134 133 132 131 130 129
143 142 141 140 139 138
Terminal No. Color of Wire Signal Name
131 W BAT BCM FUSE
138 V BAT REAR DOOR
142 Y BAT FRONT DOOR
Connector No. M58
Connector Name CLIMATE CONTROLLED SEAT RELAY
Connector Type M06FBR-R-LC
Connector Color BROWN
H.S.
2 1
7 5
6 3
Terminal No. Color of Wire Signal Name
5 R -
7 P -
Connector No. M90
Connector Name HEATED STEERING RELAY
Connector Type MS02FL-M2-LC
Connector Color BLUE
H.S.
3
5
2 1
Terminal No. Color of Wire Signal Name
1 LG -
3 LG -
Connector No. M157
Connector Name WIRE TO WIRE
Connector Type NS16FW-CS
Connector Color WHITE
H.S.
7 6 5 4 3 2 1
16 15 14 13 12 11 10 9 8
Terminal No. Color of Wire Signal Name
13 SB -
Connector No. M175
Connector Name JOINT CONNECTOR-M22
Connector Type BJ30FW
Connector Color WHITE
H.S.
11 10 9 8 7 6 5 4 3 2 1
22 21 20 19 18 17 16 15 14 13 12
33 32 31 30 29 28 27 26 25 24 23
Terminal No. Color of Wire Signal Name
10 SB -
11 SB -
AAMIA3833GB



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AAMIA3835GB

Connector No.	E202
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
3	BR	-

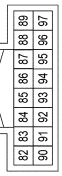
Connector No.	E217
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
75	L/W	HEADLAMP LO RH (WITH HALOGEN HEADLAMPS)
75	SB	HEADLAMP LO RH (WITH LED HEADLAMPS)
76	L	HEADLAMP LO LH
78	W	FR FOG LAMP RH
79	L	FR FOG LAMP LH
80	G/W	HEADLAMP HI RH (WITH HALOGEN HEADLAMPS)
80	LG	HEADLAMP HI RH (WITH LED HEADLAMPS)
81	G	HEADLAMP HI LH

Connector No.	E218
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH16FW-NH
Connector Color	WHITE

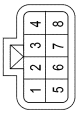
H.S.



Terminal No.	Color of Wire	Signal Name
90	GR	CLEARANCE

Connector No.	E235
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.



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

Connector No.	E236
Connector Name	COOLING FAN MOTOR-1
Connector Type	M06FBR-R-LC
Connector Color	GRAY

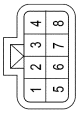
H.S.

Terminal No.	Color of Wire	Signal Name
1	BR	-

2	BR	-

Connector No.	E239
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-PR
Connector Color	BLACK

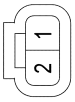
H.S.



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

Connector No.	E241
Connector Name	FRONT FOG LAMP RH
Connector Type	FHZ02FB
Connector Color	BLACK

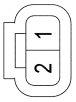
H.S.



Terminal No.	Color of Wire	Signal Name
1	W	-

Connector No.	E242
Connector Name	FRONT FOG LAMP LH
Connector Type	FHZ02FB
Connector Color	BLACK

H.S.



Terminal No.	Color of Wire	Signal Name
1	L	-

AAMIA3836GB

Connector No.	E243
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

Terminal No.	Color of Wire	Signal Name
1	SB	–
2	LG	–

Connector No.	E247
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR
Connector Color	BLACK

H.S.

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

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

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name
3	BR	–

Connector No.	F19
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.

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

Connector No.	F24
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

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

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

H.S.

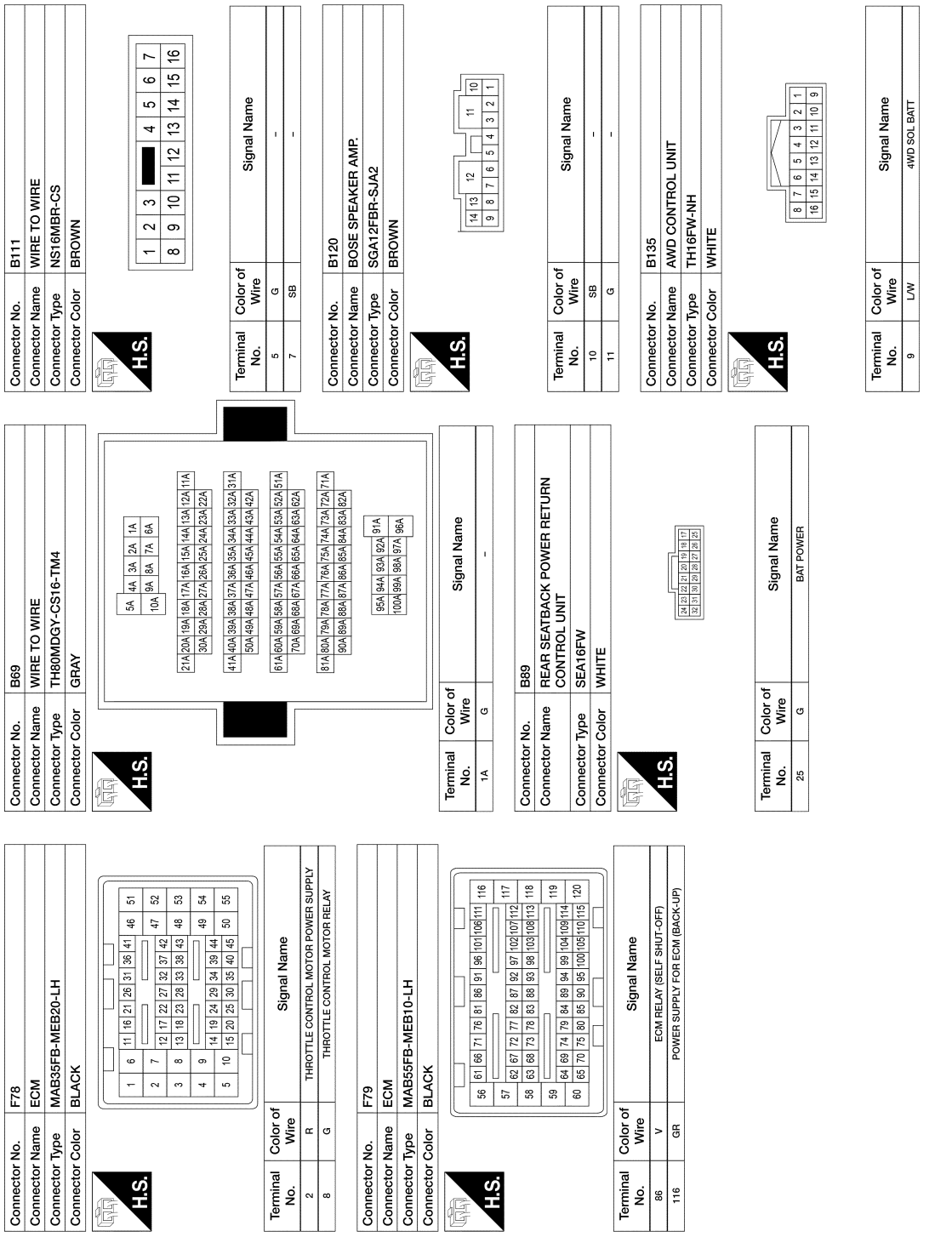
Terminal No.	Color of Wire	Signal Name
B	B/R	–

Connector No.	F32
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
8	BR	–

AAMIA3837GB



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Connector No.	B161
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

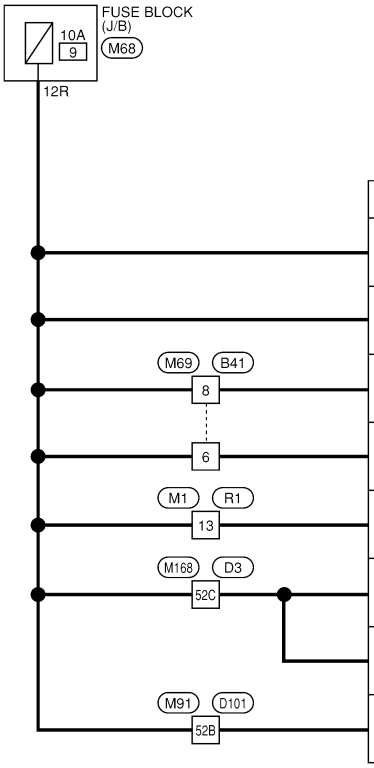
Terminal No.	Color of Wire	Signal Name
13	L/W	-

AAMIA3839GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 9 -

INFOID:0000000013326336

BATTERY POWER SUPPLY FUSE No. 9



Connector No.	Terminal No.	Connect to
M148	3	MOOD LAMP (FRONT CONSOLE RH)
M151	3	MOOD LAMP (FRONT CONSOLE LH)
B50	3	MOOD LAMP (REAR CONSOLE RH)
B78	3	MOOD LAMP (REAR CONSOLE LH)
R7	10	AUTO ANTI-DAZZLING INSIDE MIRROR
D1	3	MOOD LAMP (FRONT DOOR ARMREST LH)
D23	15	SEAT MEMORY SWITCH
D117	3	MOOD LAMP (FRONT DOOR ARMREST RH)

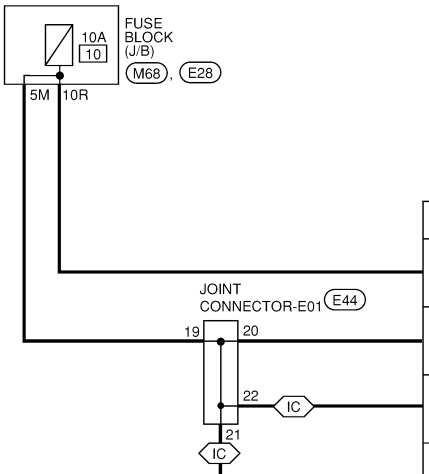
AAMIA3840GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 10 -

INFOID:0000000013326337

BATTERY POWER SUPPLY FUSE No. 10

IC :WITH INTELLIGENT CRUISE CONTROL



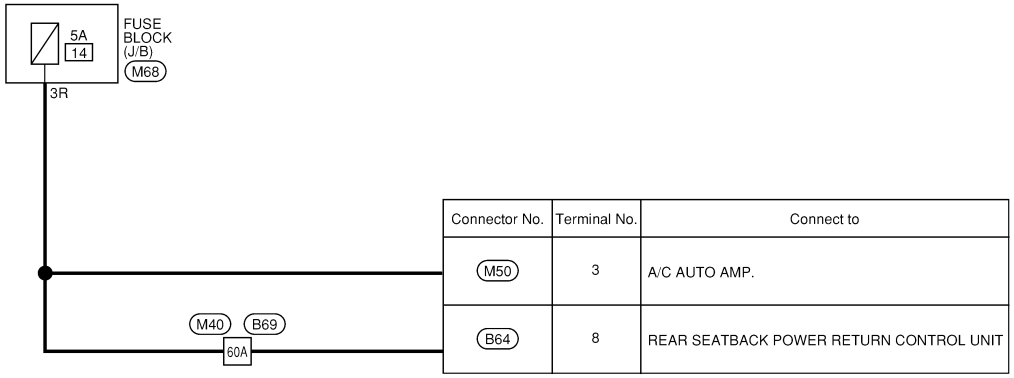
Connector No.	Terminal No.	Connect to
M18	25	BCM (BODY CONTROL MODULE)
E38	1	STOP LAMP SWITCH
E38	3	STOP LAMP SWITCH
E75	5	ICC BRAKE HOLD RELAY

AAMIA3841GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 14 -

INFOID:0000000013326338

BATTERY POWER SUPPLY FUSE No. 14



Connector No.	Terminal No.	Connect to
M50	3	A/C AUTO AMP.
B64	8	REAR SEATBACK POWER RETURN CONTROL UNIT

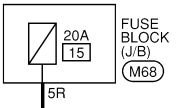
AAMIA3842GB

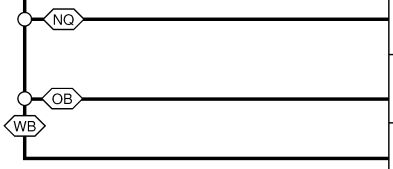
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 15 -

INFOID:0000000013326339

BATTERY POWER SUPPLY FUSE No. 15

NQ : WITH DISPLAY AUDIO SYSTEM
OB : WITHOUT BOSE AUDIO SYSTEM
WB : WITH BOSE AUDIO SYSTEM





Connector No.	Terminal No.	Connect to
M44	19	AUDIO UNIT
M122	19	AV CONTROL UNIT (WITHOUT BOSE AUDIO SYSTEM)
M161	19	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM)

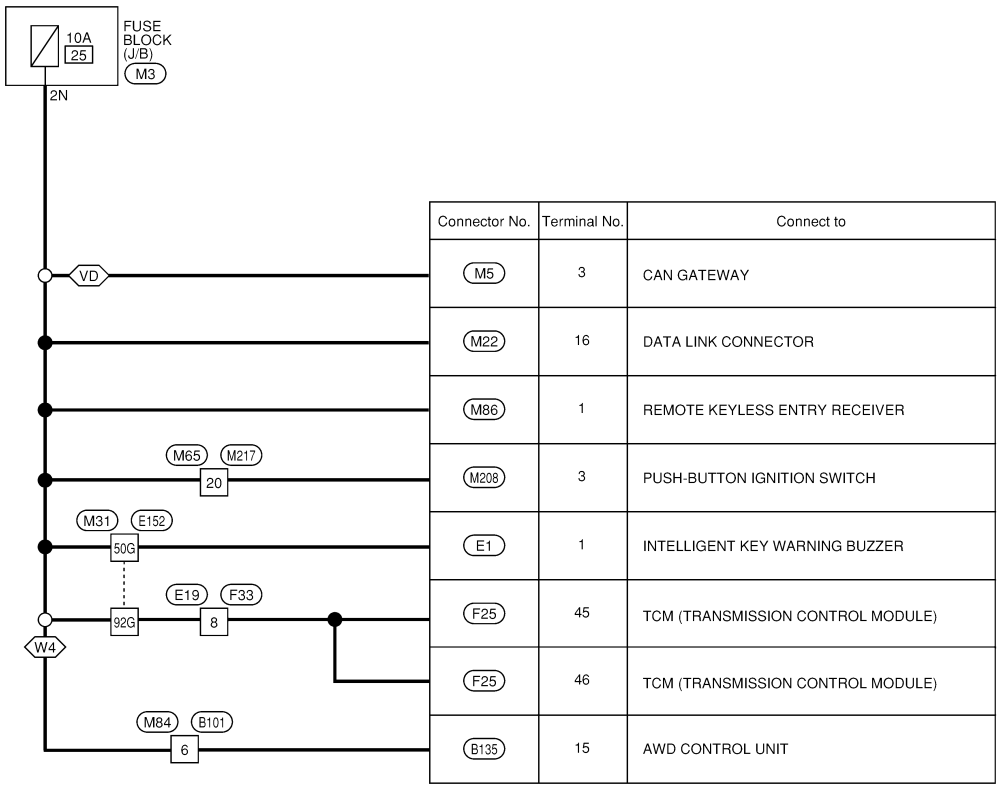
AAMIA3843GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 25 -

INFOID:0000000013326340

BATTERY POWER SUPPLY FUSE No. 25

VD : WITH AROUND VIEW MONITOR
W4 : WITH ALL WHEEL DRIVE



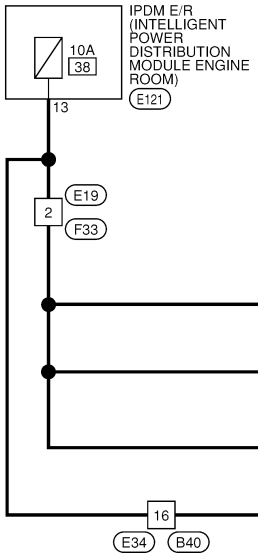
Connector No.	Terminal No.	Connect to
M5	3	CAN GATEWAY
M22	16	DATA LINK CONNECTOR
M86	1	REMOTE KEYLESS ENTRY RECEIVER
M208	3	PUSH-BUTTON IGNITION SWITCH
E1	1	INTELLIGENT KEY WARNING BUZZER
F25	45	TCM (TRANSMISSION CONTROL MODULE)
F25	46	TCM (TRANSMISSION CONTROL MODULE)
B135	15	AWD CONTROL UNIT

AAMIA3844GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 38 -

INFOID:0000000013326341

BATTERY POWER SUPPLY FUSE No. 38



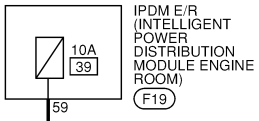
Connector No.	Terminal No.	Connect to
F63	1	VIAS CONTROL SOLENOID VALVE 1
F65	1	VIAS CONTROL SOLENOID VALVE 2
F78	51	ECM
B31	1	EVAP CANISTER VENT CONTROL VALVE

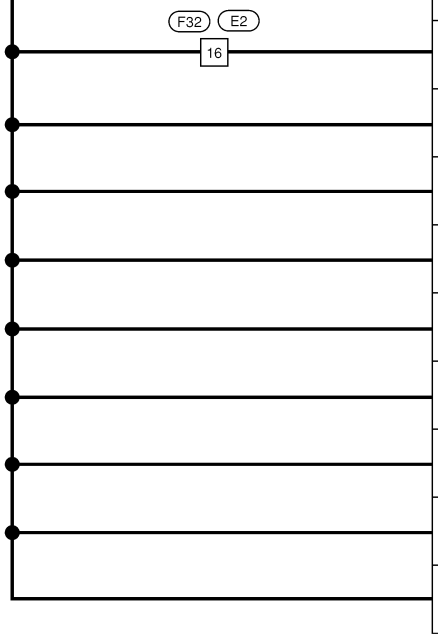
AAMIA3845GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 39 -

INFOID:0000000013326342

BATTERY POWER SUPPLY FUSE No. 39





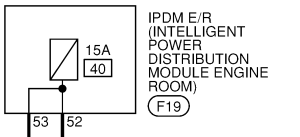
Connector No.	Terminal No.	Connect to
E32	145	ECM
F16	2	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F64	1	ELECTRONIC CONTROLLED ENGINE MOUNT CONTROL SOLENOID VALVE
F66	1	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)
F67	1	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)
F72	2	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)
F73	2	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)
F74	2	INTAKE VALVE TIMING INTERMEDIATE LOCK CONTROL SOLENOID VALVE (BANK 1)
F75	2	INTAKE VALVE TIMING INTERMEDIATE LOCK CONTROL SOLENOID VALVE (BANK 2)

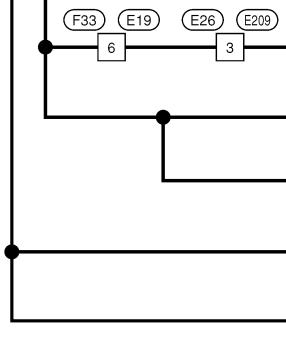
AAMIA3846GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 40 -

INFOID:0000000013326343

BATTERY POWER SUPPLY FUSE No. 40





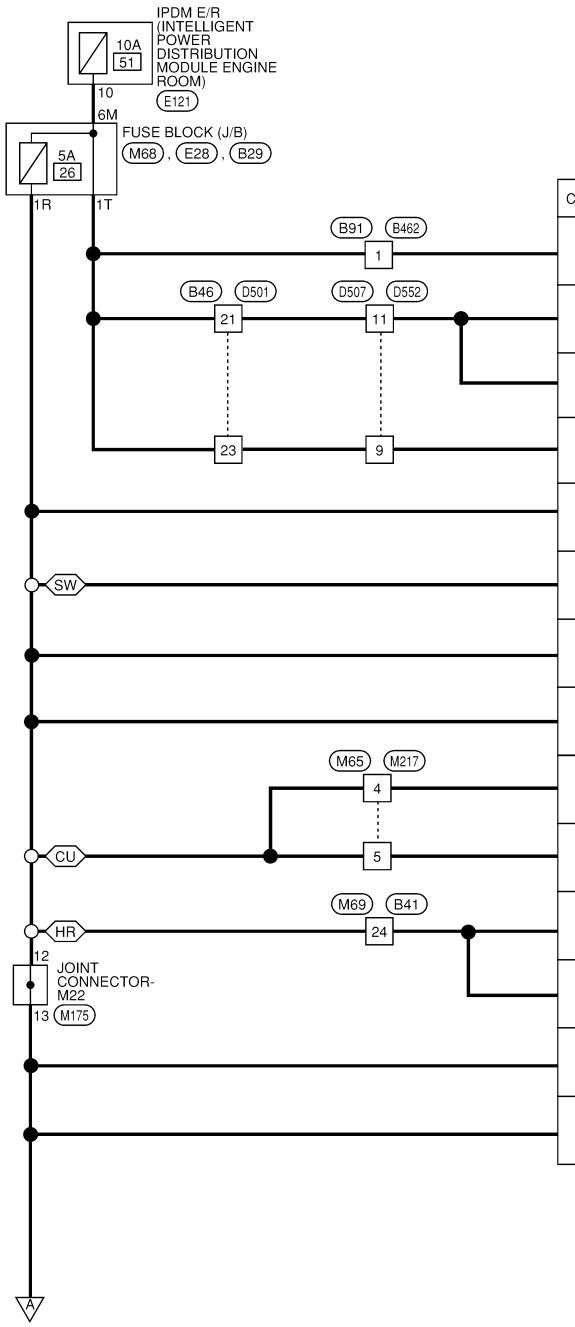
Connector No.	Terminal No.	Connect to
E238	1	ACTIVE GRILLE SHUTTER
F12	1	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 1)
F62	1	HEATED OXYGEN SENSOR 2 (BANK 1)
F54	1	HEATED OXYGEN SENSOR 2 (BANK 2)
F61	1	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 2)

AAMIA3847GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 51 -

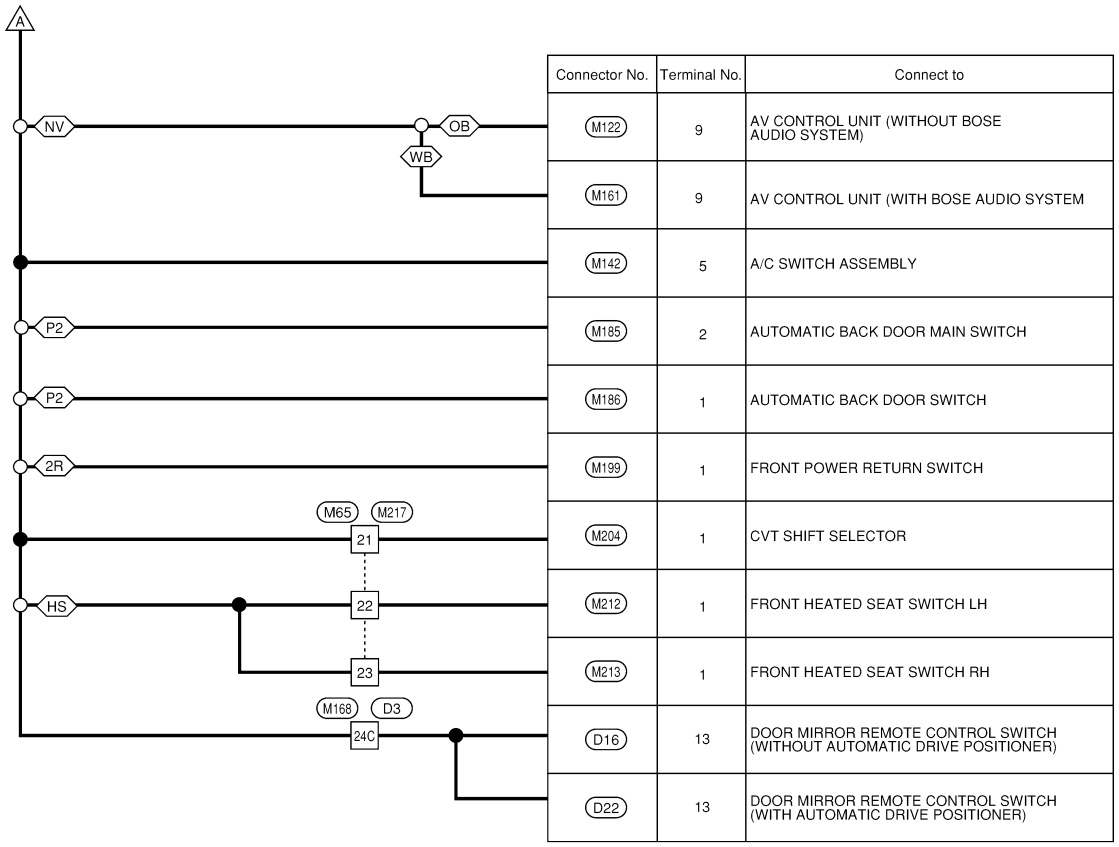
INFOID:0000000013326351

BATTERY POWER SUPPLY FUSE No. 51



Connector No.	Terminal No.	Connect to
B460	6	REAR COMBINATION LAMP LH
D561	1	LICENSE PLATE LAMP LH
D562	1	LICENSE PLATE LAMP RH
D565	4	REAR COMBINATION LAMP RH
M27	1	METER CONTROL SWITCH
M48	1	HEATED STEERING WHEEL SWITCH
M71	1	VDC OFF SWITCH
M83	4	HAZARD SWITCH
M203	6	CLIMATE CONTROLLED SEAT SWITCH (DRIVER SEAT)
M206	5	CLIMATE CONTROLLED SEAT SWITCH (PASSENGER SEAT)
B66	1	2ND ROW HEATED SEAT SWITCH LH
B68	1	2ND ROW HEATED SEAT SWITCH RH
M53	3	COMBINATION SWITCH (SPIRAL CABLE)
M59	1	GLOVE BOX LAMP

AAMIA3848GB



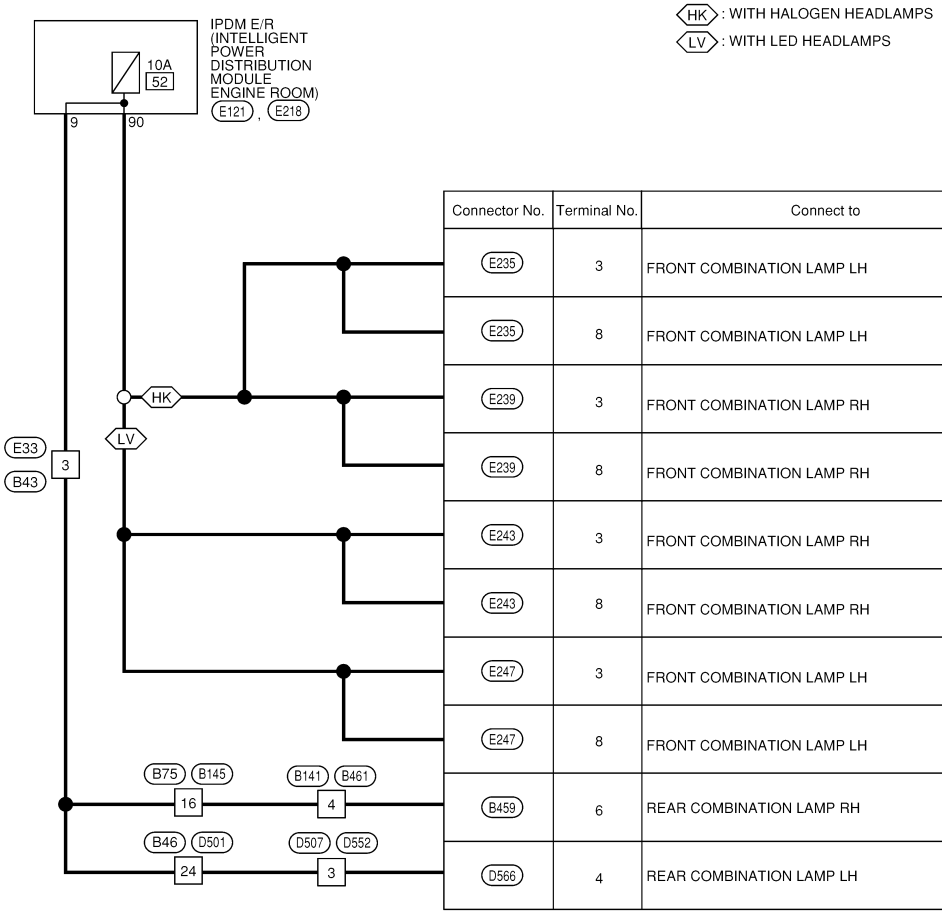
Connector No.	Terminal No.	Connect to
M122	9	AV CONTROL UNIT (WITHOUT BOSE AUDIO SYSTEM)
M161	9	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM
M142	5	A/C SWITCH ASSEMBLY
M185	2	AUTOMATIC BACK DOOR MAIN SWITCH
M186	1	AUTOMATIC BACK DOOR SWITCH
M199	1	FRONT POWER RETURN SWITCH
M204	1	CVT SHIFT SELECTOR
M212	1	FRONT HEATED SEAT SWITCH LH
M213	1	FRONT HEATED SEAT SWITCH RH
D16	13	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)
D22	13	DOOR MIRROR REMOTE CONTROL SWITCH (WITH AUTOMATIC DRIVE POSITIONER)

AAMIA3868GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 52 -

INFOID:0000000013326352

BATTERY POWER SUPPLY FUSE No. 52



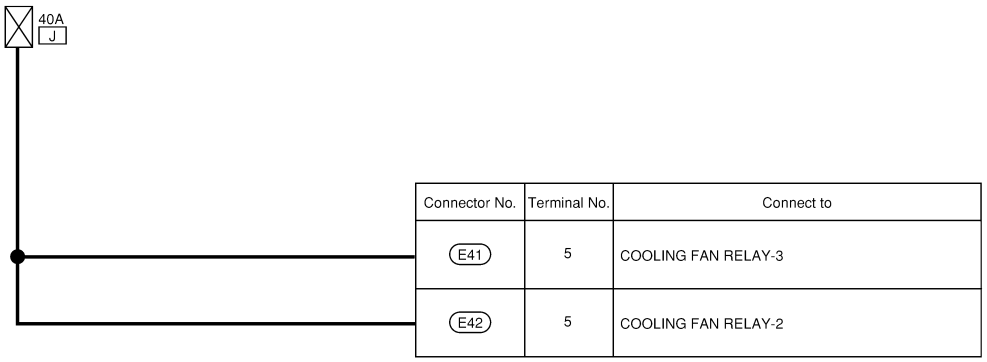
Connector No.	Terminal No.	Connect to
E235	3	FRONT COMBINATION LAMP LH
E235	8	FRONT COMBINATION LAMP LH
E239	3	FRONT COMBINATION LAMP RH
E239	8	FRONT COMBINATION LAMP RH
E243	3	FRONT COMBINATION LAMP RH
E243	8	FRONT COMBINATION LAMP RH
E247	3	FRONT COMBINATION LAMP LH
E247	8	FRONT COMBINATION LAMP LH
B459	6	REAR COMBINATION LAMP RH
D566	4	REAR COMBINATION LAMP LH

AAMIA3849GB

Wiring Diagram - BATTERY POWER SUPPLY FUSIBLE LINK No. J -

INFOID:0000000013326353

BATTERY POWER SUPPLY FUSIBLE LINK No. J



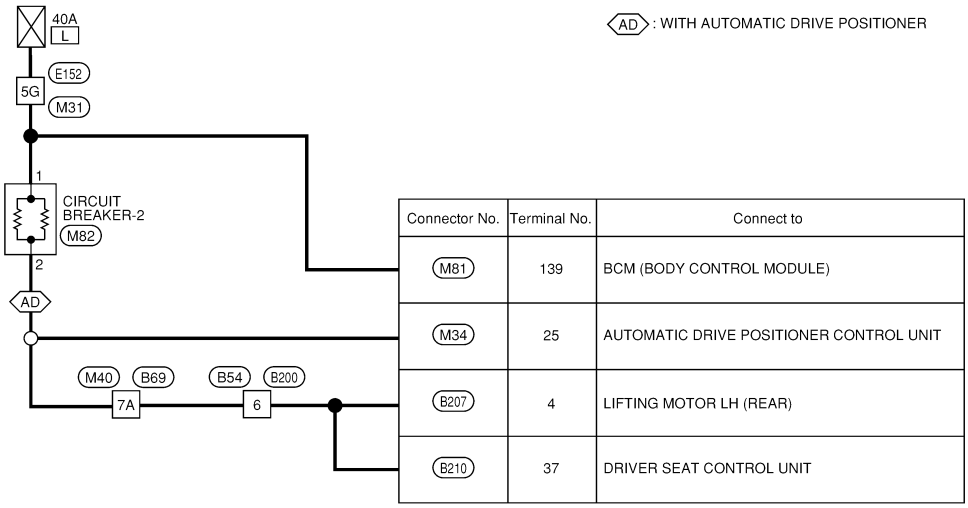
Connector No.	Terminal No.	Connect to
E41	5	COOLING FAN RELAY-3
E42	5	COOLING FAN RELAY-2

AAMIA3850GB

Wiring Diagram - BATTERY POWER SUPPLY FUSIBLE LINK No. L -

INFOID:0000000013326354

BATTERY POWER SUPPLY FUSIBLE LINK No. L



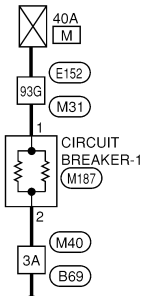
Connector No.	Terminal No.	Connect to
M81	139	BCM (BODY CONTROL MODULE)
M34	25	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
B207	4	LIFTING MOTOR LH (REAR)
B210	37	DRIVER SEAT CONTROL UNIT

AAMIA3851GB

Wiring Diagram - BATTERY POWER SUPPLY FUSIBLE LINK No. M -

INFOID:0000000013326355

BATTERY POWER SUPPLY FUSIBLE LINK No. M



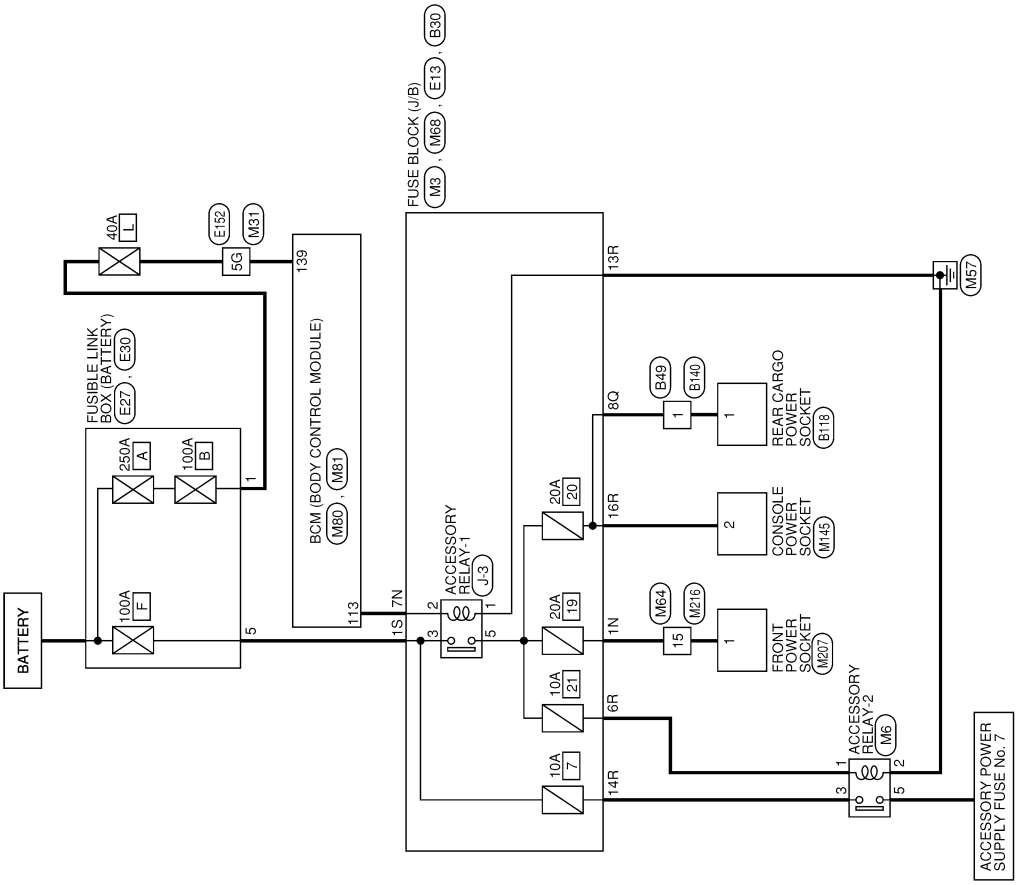
Connector No.	Terminal No.	Connect to
B56	33	AUTOMATIC BACK DOOR CONTROL MODULE
B56	34	AUTOMATIC BACK DOOR CONTROL MODULE
B93	1	BACK DOOR WARNING CHIME

AAMIA3852GB

Wiring Diagram - ACCESSORY POWER SUPPLY -

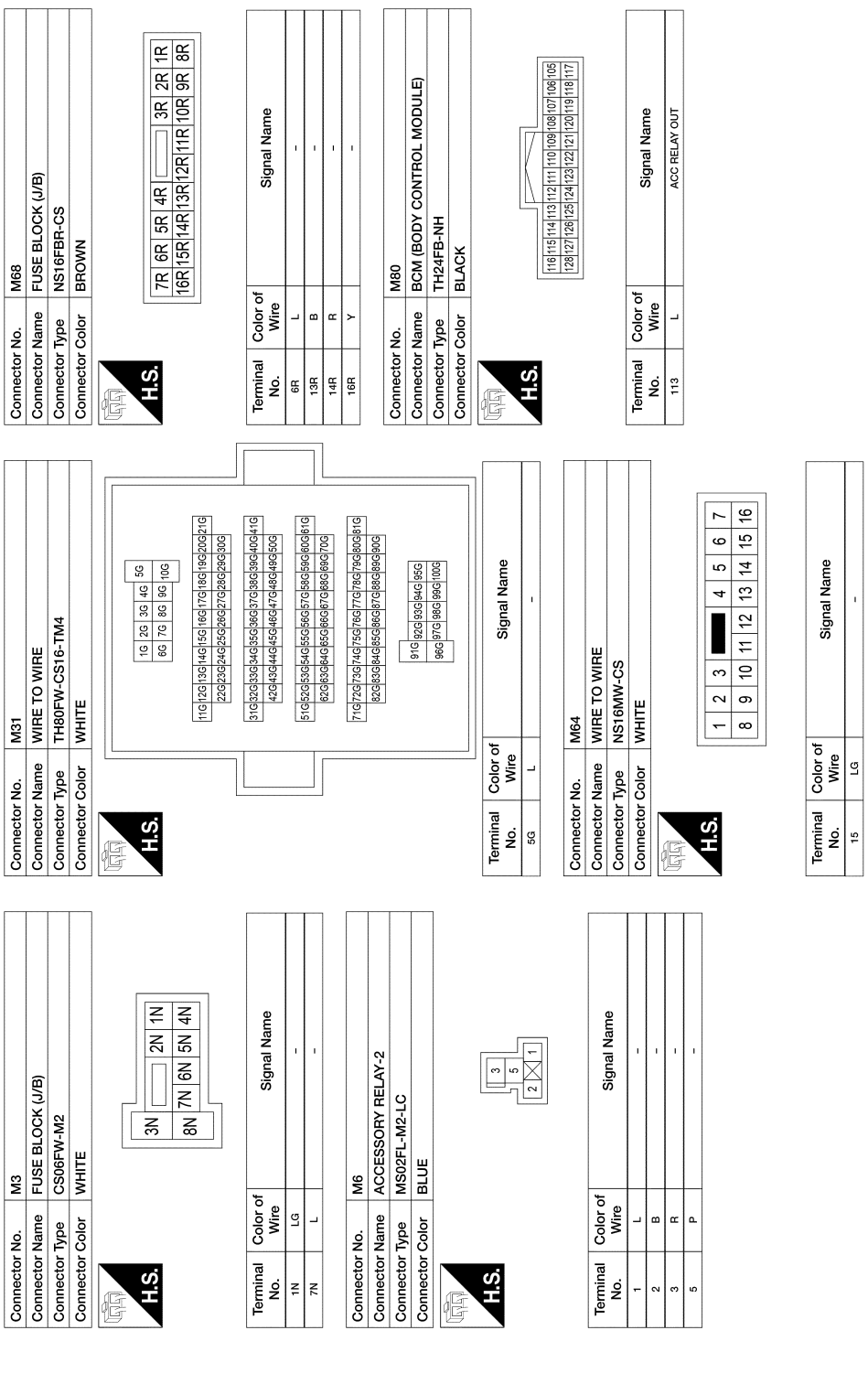
INFOID:0000000013326344

ACCESSORY POWER SUPPLY

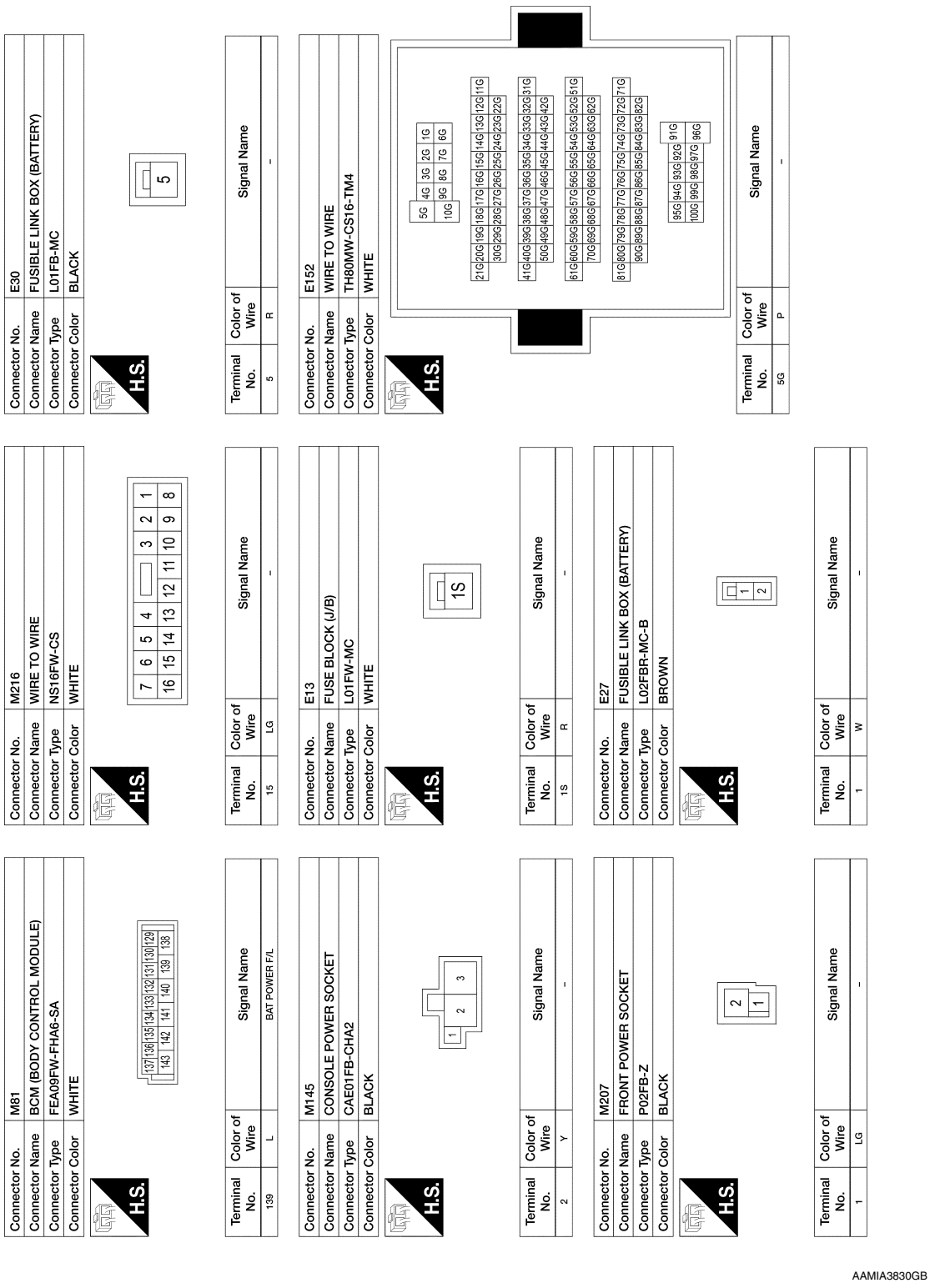


AAMWA1996GB

ACCESSORY POWER SUPPLY CONNECTORS



AAMIA3829GB



AAMIA3830GB

Connector No.	B30
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
8Q	L	-

Connector No.	B140
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	-

Connector No.	B49
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	L	-

Connector No.	B118
Connector Name	REAR CARGO POWER SOCKET
Connector Type	P02FB-Z
Connector Color	BLACK

H.S.

2	
1	

Terminal No.	Color of Wire	Signal Name
1	L	-

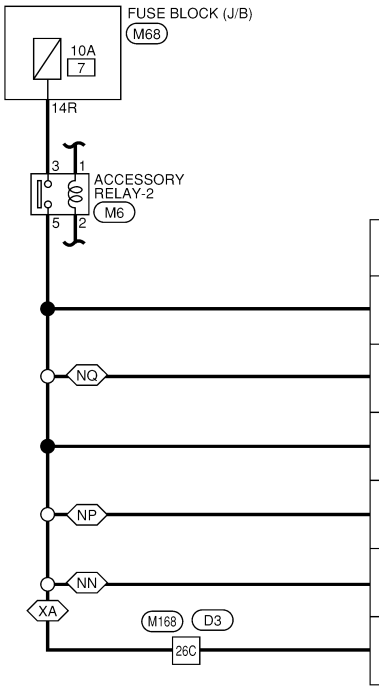
AAMIA3831GB

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 7 -

INFOID:0000000013326345

ACCESSORY POWER SUPPLY FUSE No. 7

NN : WITH NAVIGATION SYSTEM AND BOSE AUDIO SYSTEM
NP : WITH NAVIGATION SYSTEM WITHOUT BOSE AUDIO SYSTEM
NQ : WITH DISPLAY AUDIO SYSTEM
XA : WITHOUT AUTOMATIC DRIVE POSITIONER

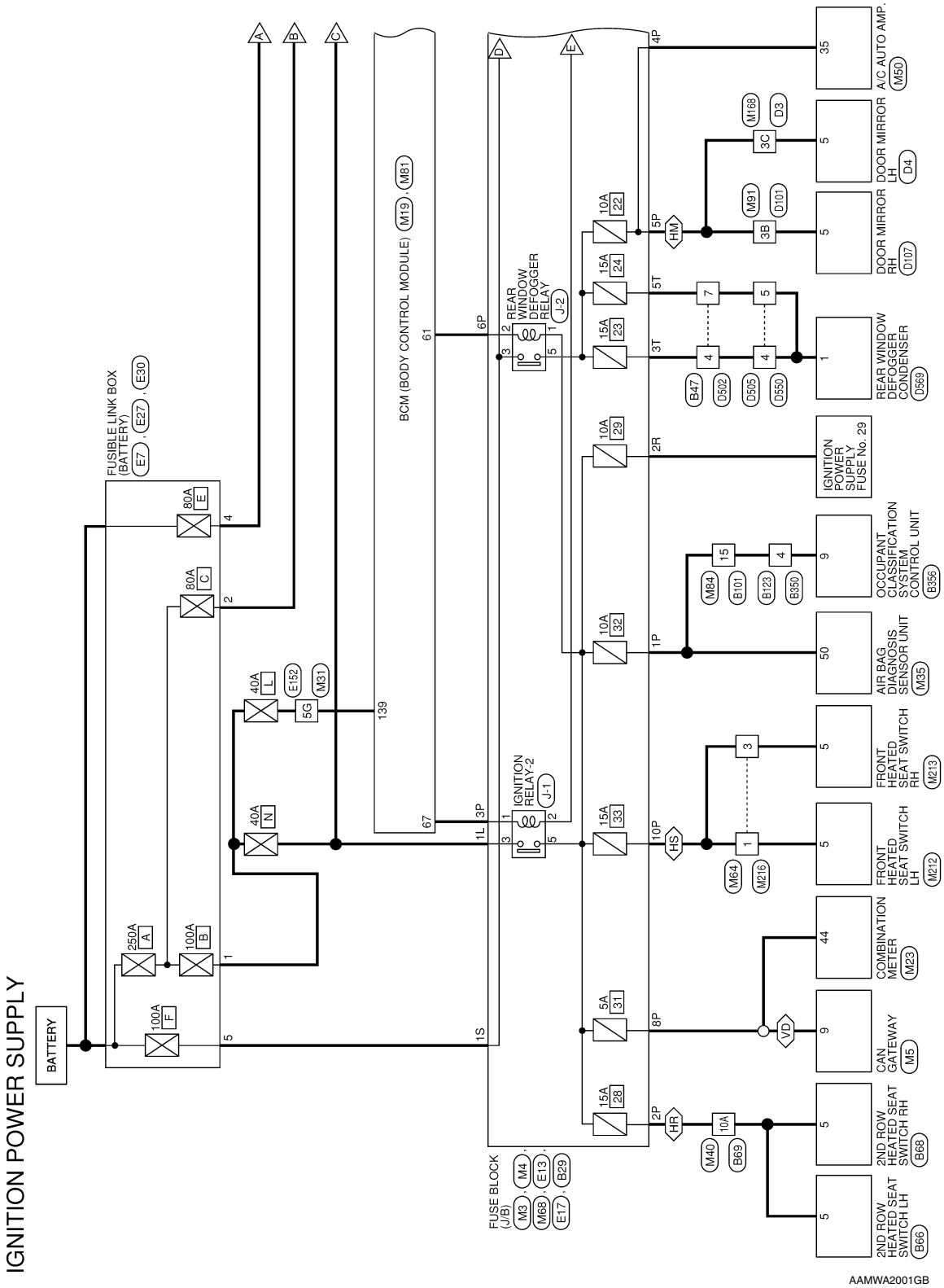


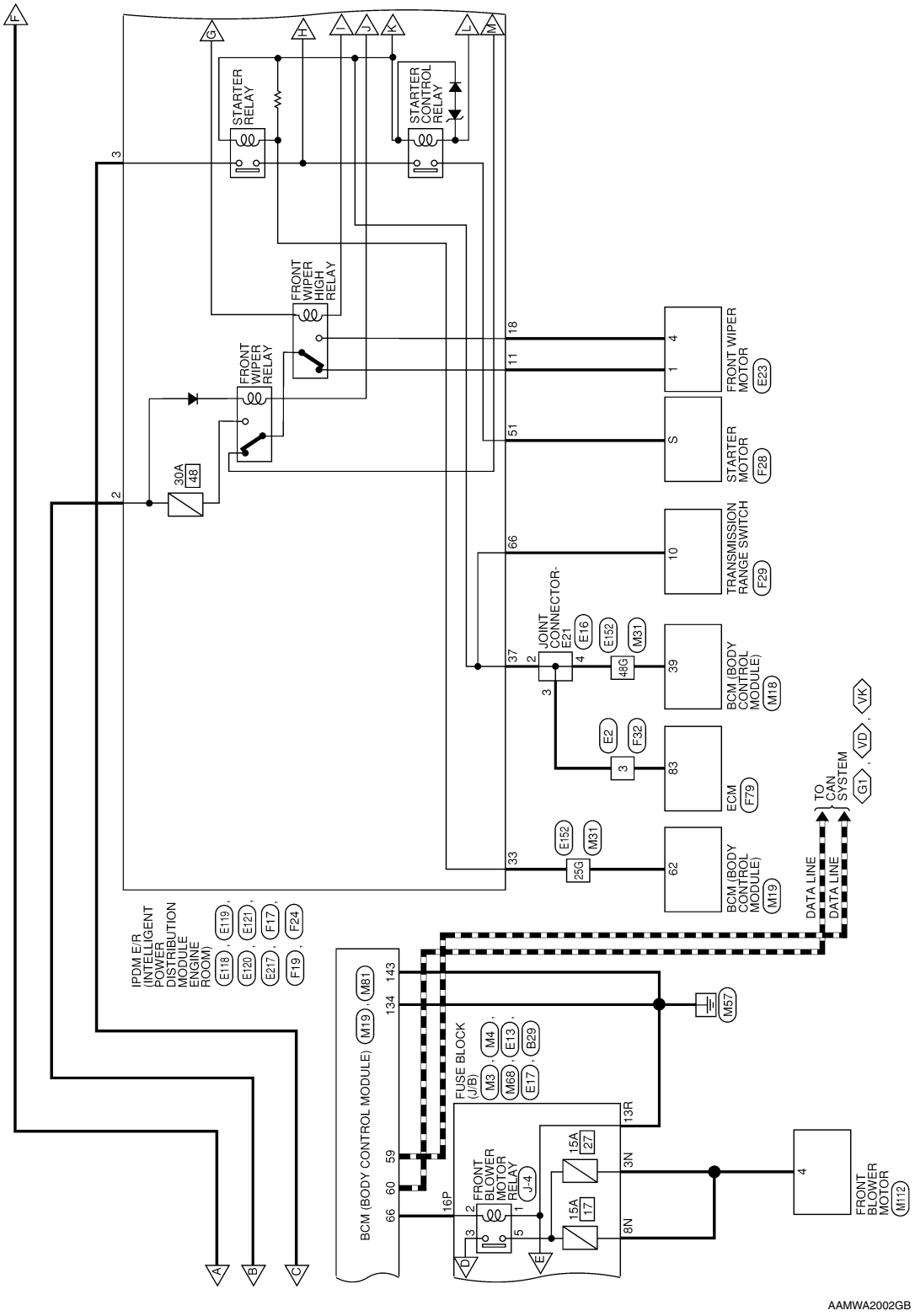
Connect No.	Terminal No.	Connect to
M24	14	COMBINATION METER
M44	7	AUDIO UNIT
M50	13	A/C AUTO AMP.
M122	7	AV CONTROL UNIT (WITHOUT BOSE AUDIO SYSTEM)
M161	7	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM)
D16	15	DOOR MIRROR REMOTE CONTROL SWITCH (WITHOUT AUTOMATIC DRIVE POSITIONER)

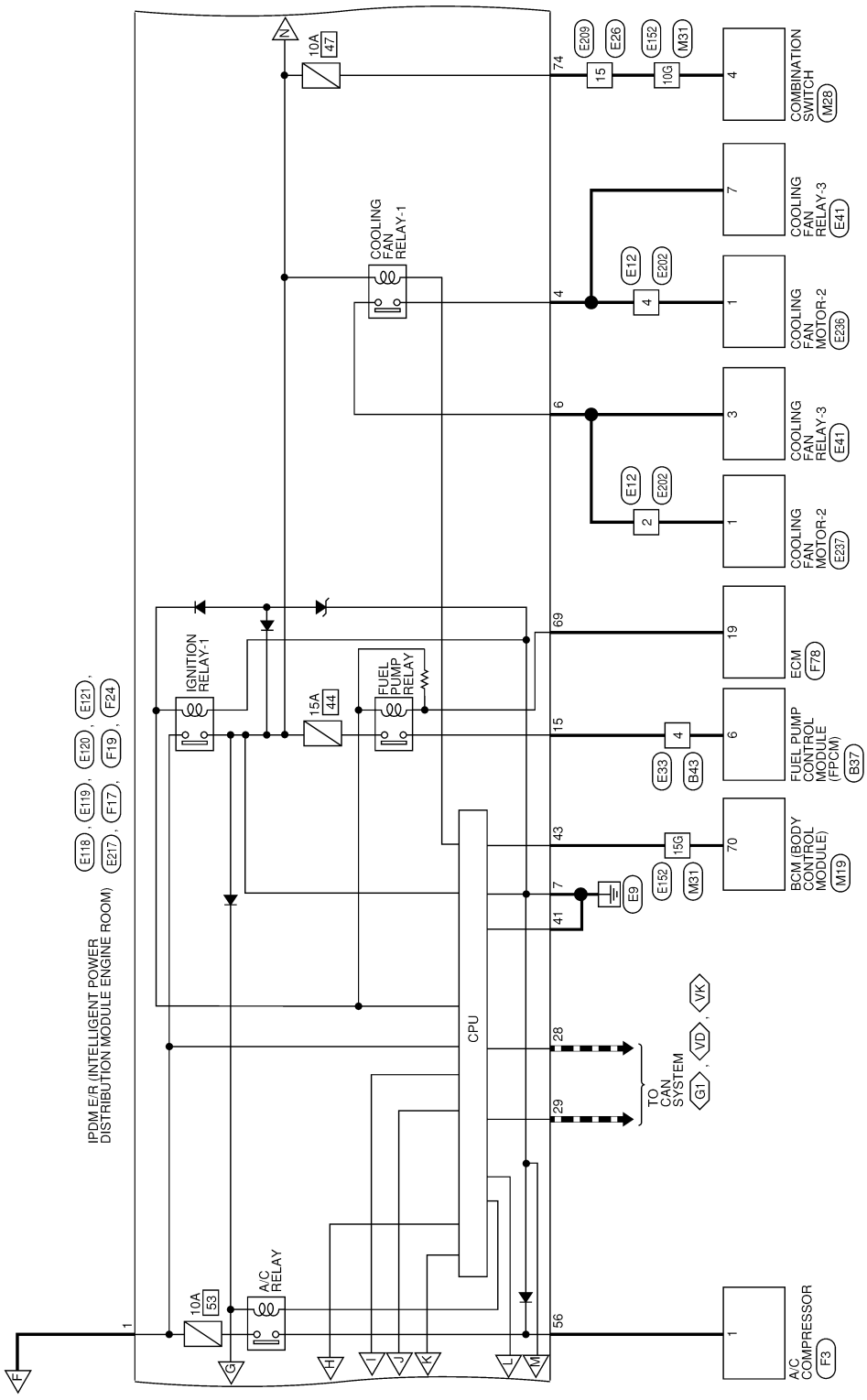
AAMIA3877GB

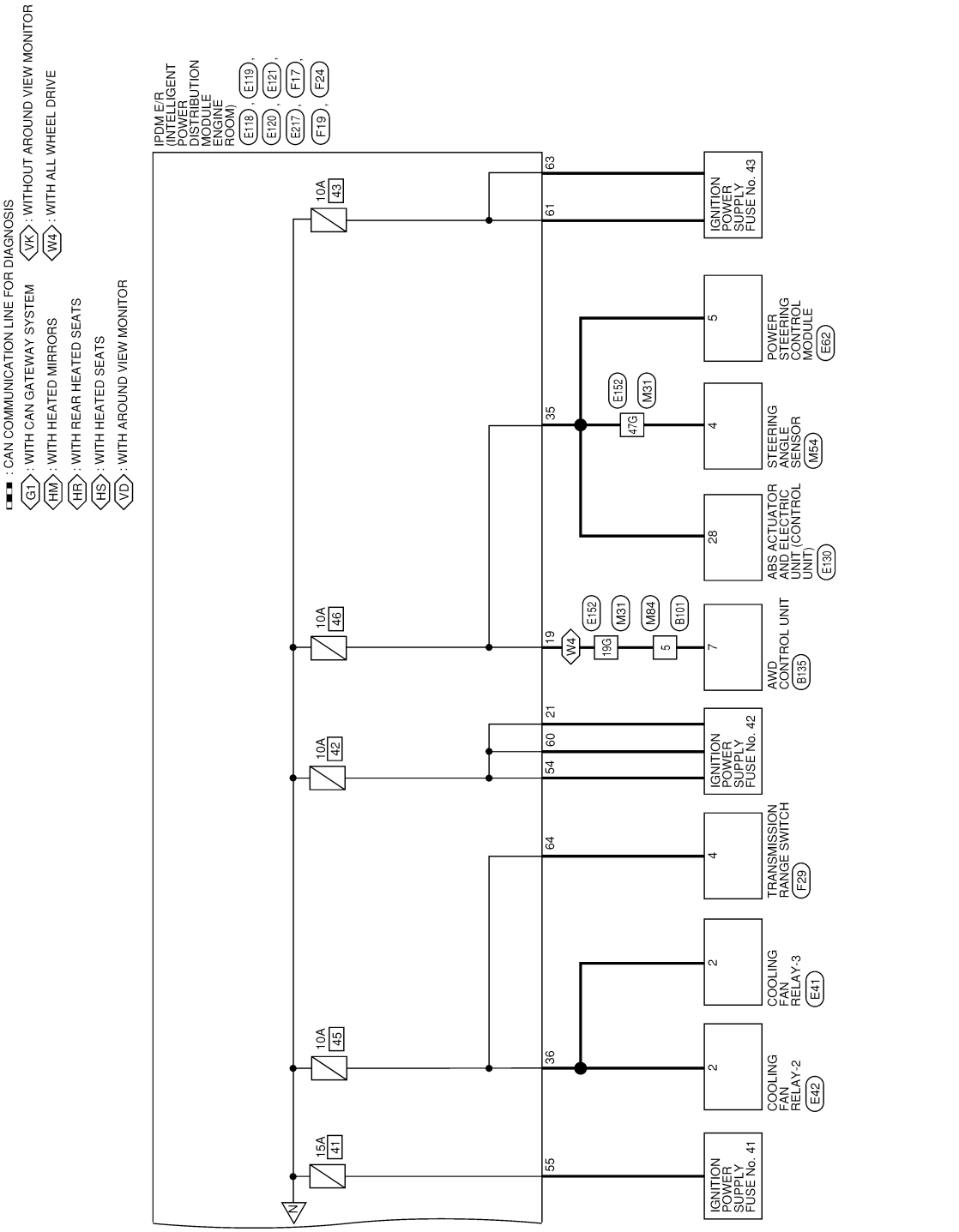
Wiring Diagram - IGNITION POWER SUPPLY -

INFOID:0000000013326346




STARTER RELAY
STARTER CONTROL RELAY
FRONT WIPER HIGH RELAY
FRONT WIPER RELAY
30A 48
FRONT WIPER MOTOR E23
STARTER MOTOR F28
TRANSMISSION RANGE SWITCH F29
JOINT CONNECTOR-E21
BCM (BODY CONTROL MODULE) M18
ECM F79
BCM (BODY CONTROL MODULE) M19
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
BCM (BODY CONTROL MODULE) (M19), (M81)
FUSE BLOCK (J/B) M3, M4, M68, E13, E17, B29
M57
FRONT BLOWER MOTOR RELAY J-4
15A 27
15A 17
FRONT BLOWER MOTOR M112
DATA LINE
DATA LINE
TO CAN SYSTEM
AAMWA2002GB


IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E118, E119, E120, E121, E217, F17, F19, F24
10A 47
10A 53
15A 44
IGNITION RELAY-1
FUEL PUMP RELAY
A/C RELAY
COOLING FAN RELAY-1
CPU
TO CAN SYSTEM
G1, VD, VK
COMBINATION SWITCH M28
COOLING FAN RELAY-3 E41
COOLING FAN MOTOR-2 E236
COOLING FAN RELAY-3 E41
COOLING FAN MOTOR-2 E237
ECM F78
FUEL PUMP CONTROL MODULE (FPCM) B37
BCM (BODY CONTROL MODULE) M19
A/C COMPRESSOR F3
E209 E26 E152 M31
E12 E202
E33 B43
E9
AAMWA2003GB



AAMWA2004GB

IGNITION POWER SUPPLY CONNECTORS

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	CS06FW-M2
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 Type	NS18FW-CS
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	P	–
5P	R	–
6P	BG	–
8P	BG	–
10P	V	–
16P	W	–

Connector No.	M5
Connector Name	CAN GATEWAY
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
9	BG	IGNITION

Connector No.	M18
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH
Connector Color	GREEN

H.S.

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

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

Connector No.	M19
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH
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

62	W	STARTER RELAY OUT
66	W	BLOWER FAN RELAY OUT
67	G	IGN ELEC RELAY OUT 2
70	P	IGN USM OUT 1

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

H.S.

41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56

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

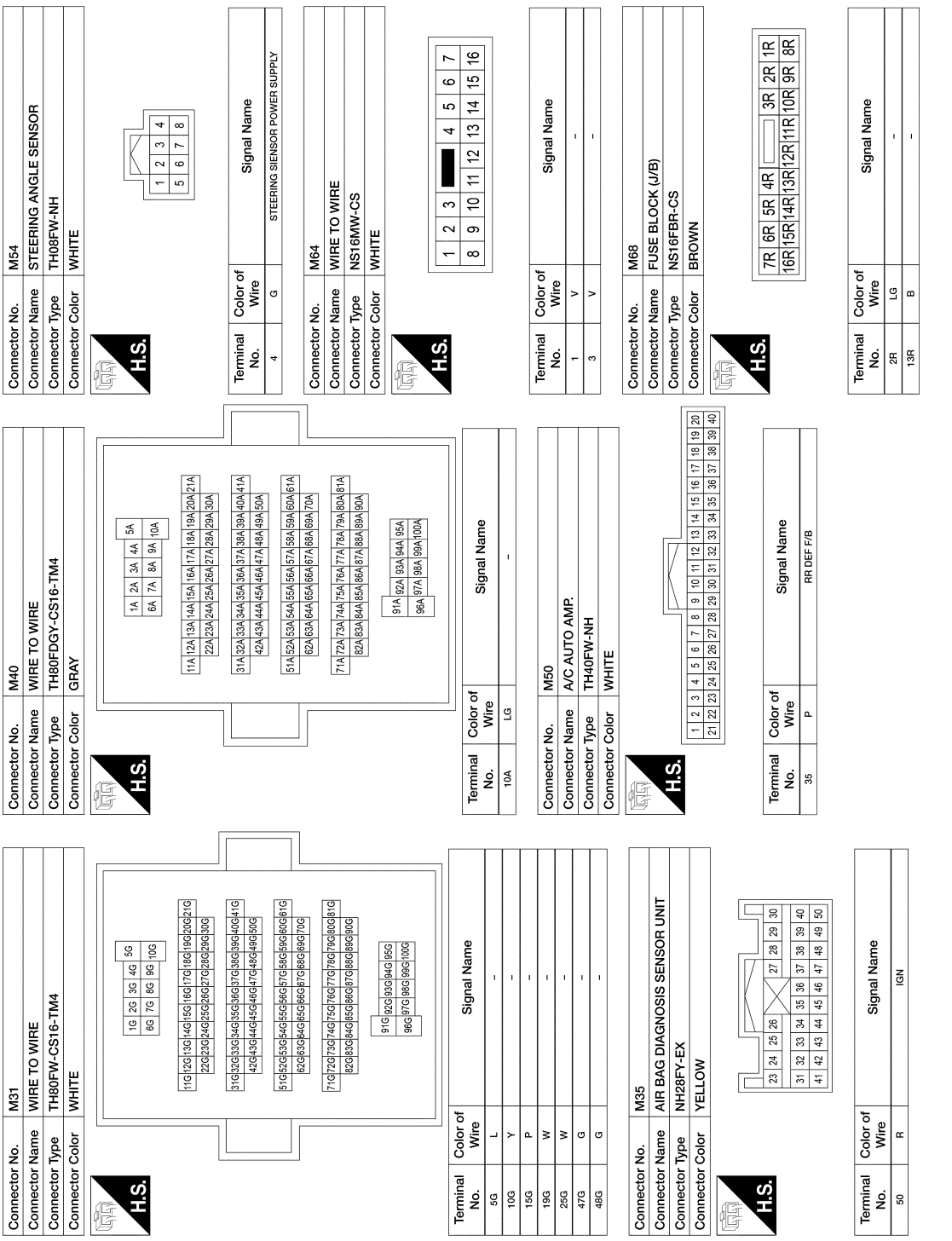
Connector No.	M28
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
4	Y	–

AAMIA3853GB



AAMIA3854GB

Connector No.	M81
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA
Connector Color	WHITE

H.S.

137	136	135	134	133	132	131	130	129
143	142	141	140	139	138			

Terminal No.	Color of Wire	Signal Name
134	GR	GND2
139	L	BAT POWER F/L
143	GR	GND1

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
5	W	–
15	R	–

Connector No.	M91
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
3B	BR/V	–

Connector No.	M112
Connector Name	FRONT BLOWER MOTOR
Connector Type	NS03FW-M3
Connector Color	WHITE

H.S.

6	5	4	3	2	1

Terminal No.	Color of Wire	Signal Name
4	L	–

Connector No.	M168
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
3C	W/O	–

Connector No.	M212
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Type	NS06FW-CS
Connector Color	WHITE

H.S.

1	2
3	4
5	6

Terminal No.	Color of Wire	Signal Name
5	V	–

Connector No.	M213
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Type	NS06FBR-CS
Connector Color	BROWN

H.S.

1	2
3	4
5	6

Terminal No.	Color of Wire	Signal Name
5	V	–

Connector No.	M216
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
1	V	–
3	V	–

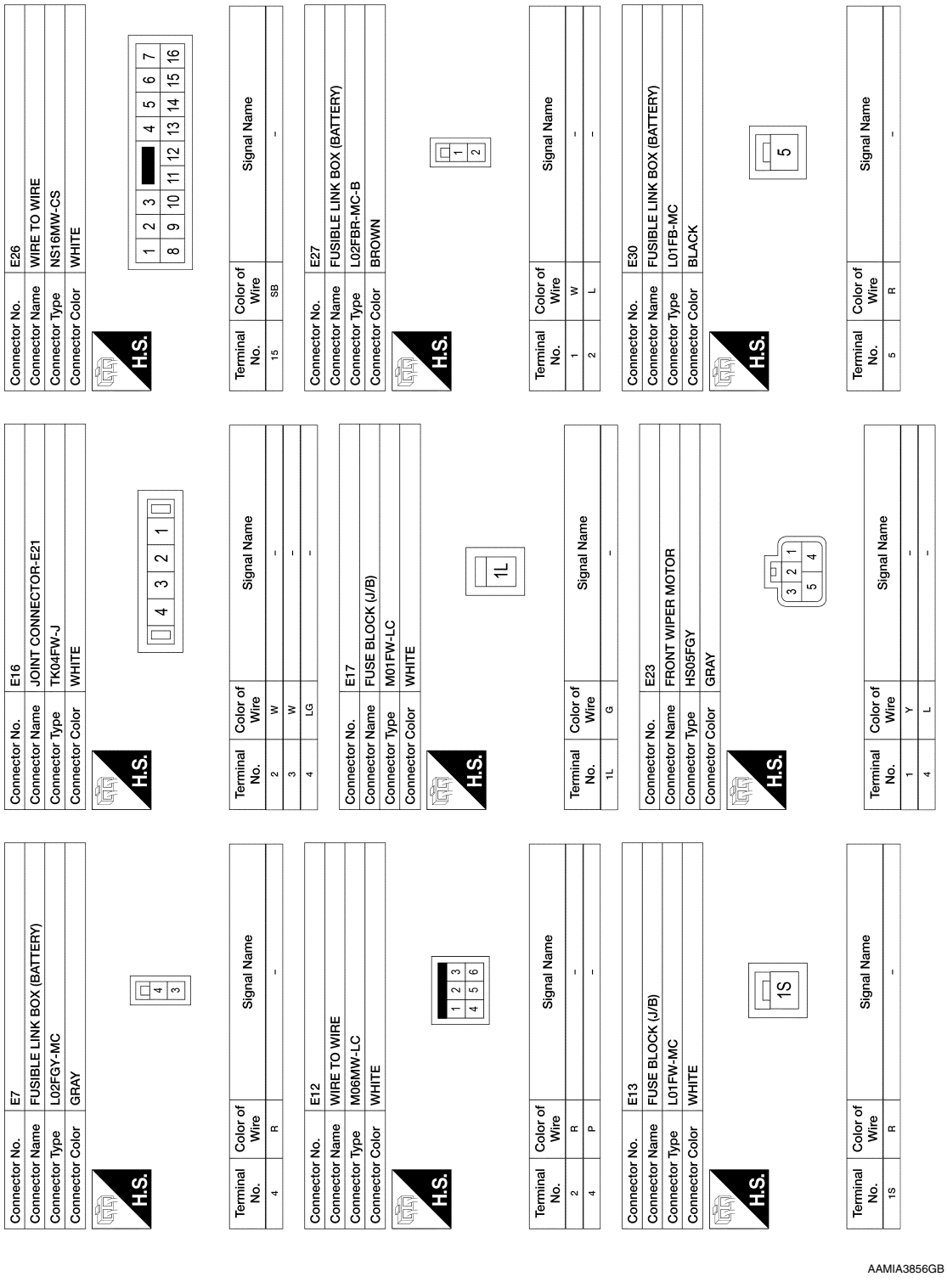
Connector No.	E2
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
3	W	–

AAMIA3855GB



AAMIA3856GB

Connector No.	E33
Connector Name	WIRE TO WIRE
Connector Type	NS08FW-CS
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
4	W	-

Connector No.	E41
Connector Name	COOLING FAN RELAY-3
Connector Type	M06FBR-R-LC
Connector Color	BROWN

H.S.

Terminal No.	Color of Wire	Signal Name
2	W	-
3	R	-
7	P	-

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

H.S.

Terminal No.	Color of Wire	Signal Name
2	W	-

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

H.S.

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

Connector No.	E118
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC
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 Type	TH32FW-NH
Connector Color	WHITE

H.S.

Terminal No.	Color of Wire	Signal Name
19	SB	SUB ECU
21	L	BCM IGNSW

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	S-GND
43	L	IGN SIGNAL

Connector No.	E120
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M04FW-LC
Connector Color	WHITE

H.S.

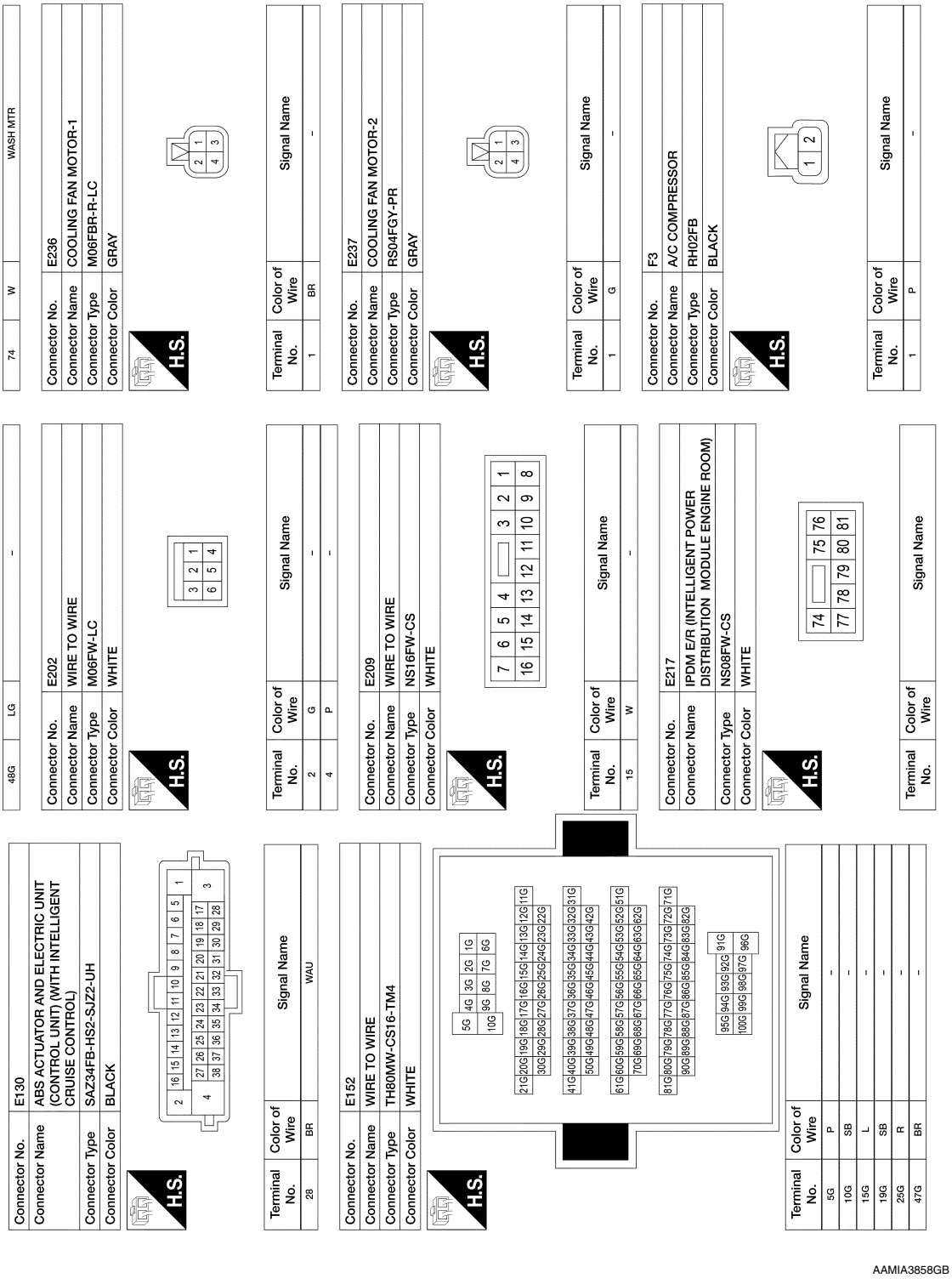
Terminal No.	Color of Wire	Signal Name
3	G	F/L IGNSW
4	P	MOTOR FAN 1
6	R	F/L MOTOR FAN

Connector No.	E121
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FW-CS
Connector Color	WHITE

H.S.

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

AAMIA3857GB



AAMIA3858GB

10	G

-	

Connector No.	F32
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH
Connector Color	WHITE

H.S.

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

Terminal No.	Color of Wire	Signal Name
3	R	-

Connector No.	F78
Connector Name	ECM
Connector Type	MAB35FB-MEB20-LH
Connector Color	BLACK

H.S.

1	6	11	16	21	26	31	36	41	46	51				
2	7	12	17	22	27	32	37	42	47	52				
3	8	13	18	23	28	33	38	43	48	53				
4	9	14	19	24	29	34	39	44	49	54				
5	10	15	20	25	30	35	40	45	50	55				

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

Connector No.	F24
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH
Connector Color	WHITE

H.S.

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

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

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

H.S.

S

Terminal No.	Color of Wire	Signal Name
S	W	-

Connector No.	F29
Connector Name	TRANSMISSION RANGE SWITCH
Connector Type	YDX06FB-HS4
Connector Color	BLACK

H.S.

6	5	4	3	2	1
10	9	8	7		

Terminal No.	Color of Wire	Signal Name
4	LG	-

Connector No.	F17
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M01FB-LC
Connector Color	BLACK

H.S.

51

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

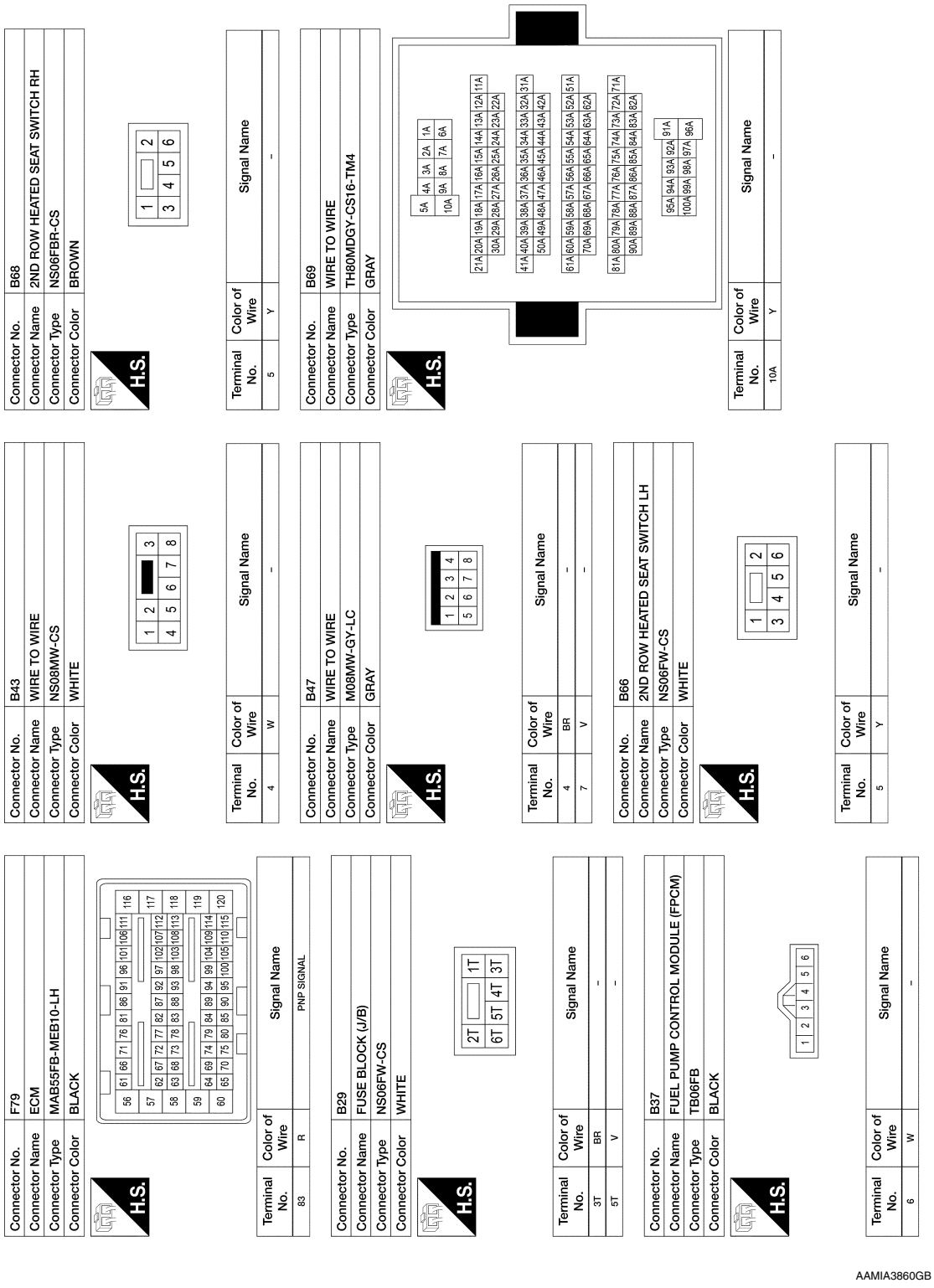
Connector No.	F19
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS10FW-CS
Connector Color	WHITE

H.S.

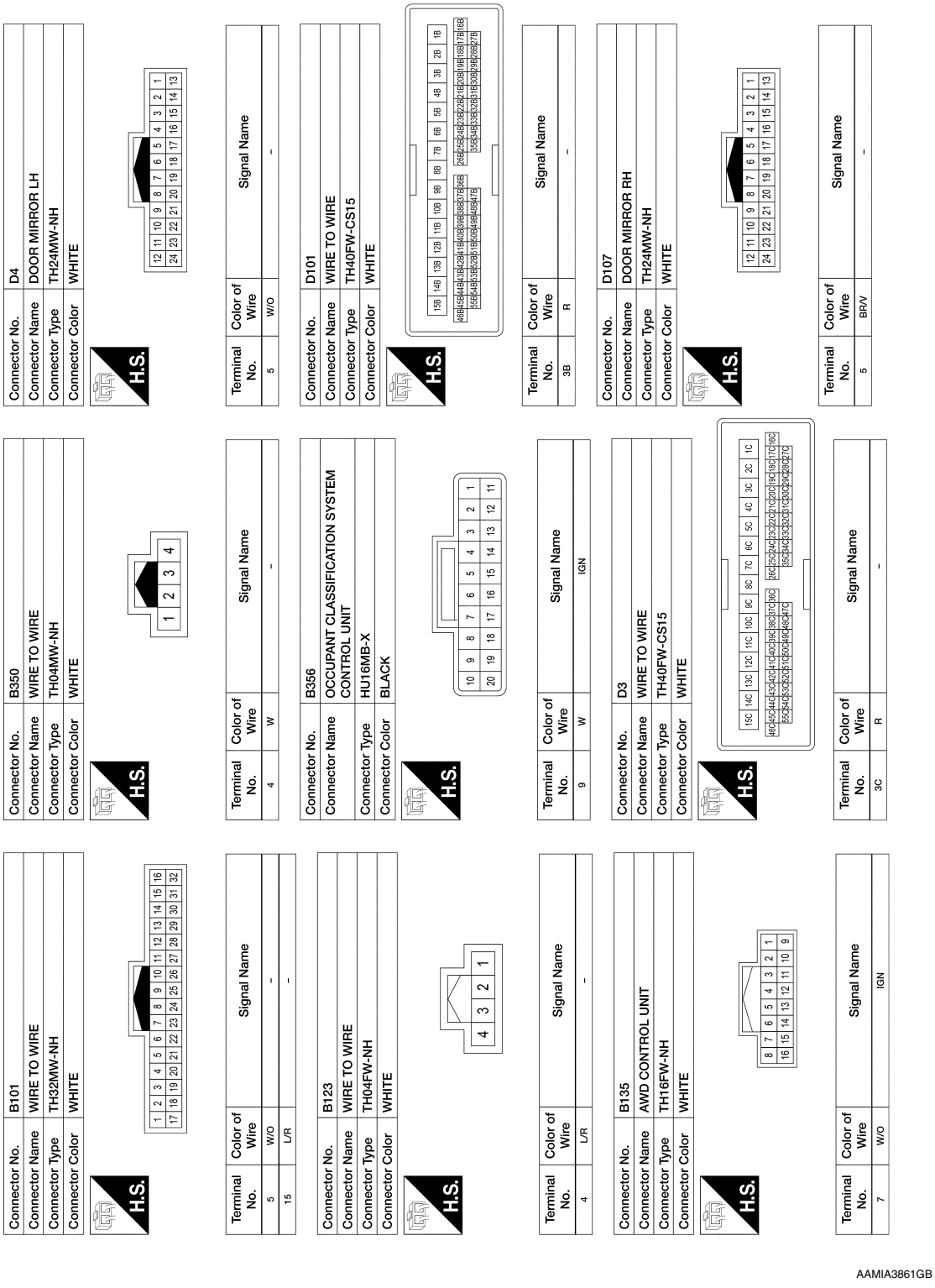
52	53				54	55	
56	57	58	59	60	61		

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

AAMIA3859GB



AAMIA3860GB



AAMIA3861GB

Connector No.	D502
Connector Name	WIRE TO WIRE
Connector Type	M08FW-GY-LC
Connector Color	GRAY

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
4	R	–
7	R	–

Connector No.	D505
Connector Name	WIRE TO WIRE
Connector Type	M08FW-GY-LC
Connector Color	GRAY

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name
4	R	–
5	R	–

Connector No.	D550
Connector Name	WIRE TO WIRE
Connector Type	M08MW-GY-LC
Connector Color	GRAY

H.S.

1	2	3	4
5	6	7	8

Terminal No.	Color of Wire	Signal Name
4	G	–
5	R	–

Connector No.	D569
Connector Name	REAR WINDOW DEFOGGER CONDENSER
Connector Type	M01FW-GY-LC
Connector Color	GRAY

H.S.

1

Terminal No.	Color of Wire	Signal Name
1	G	–

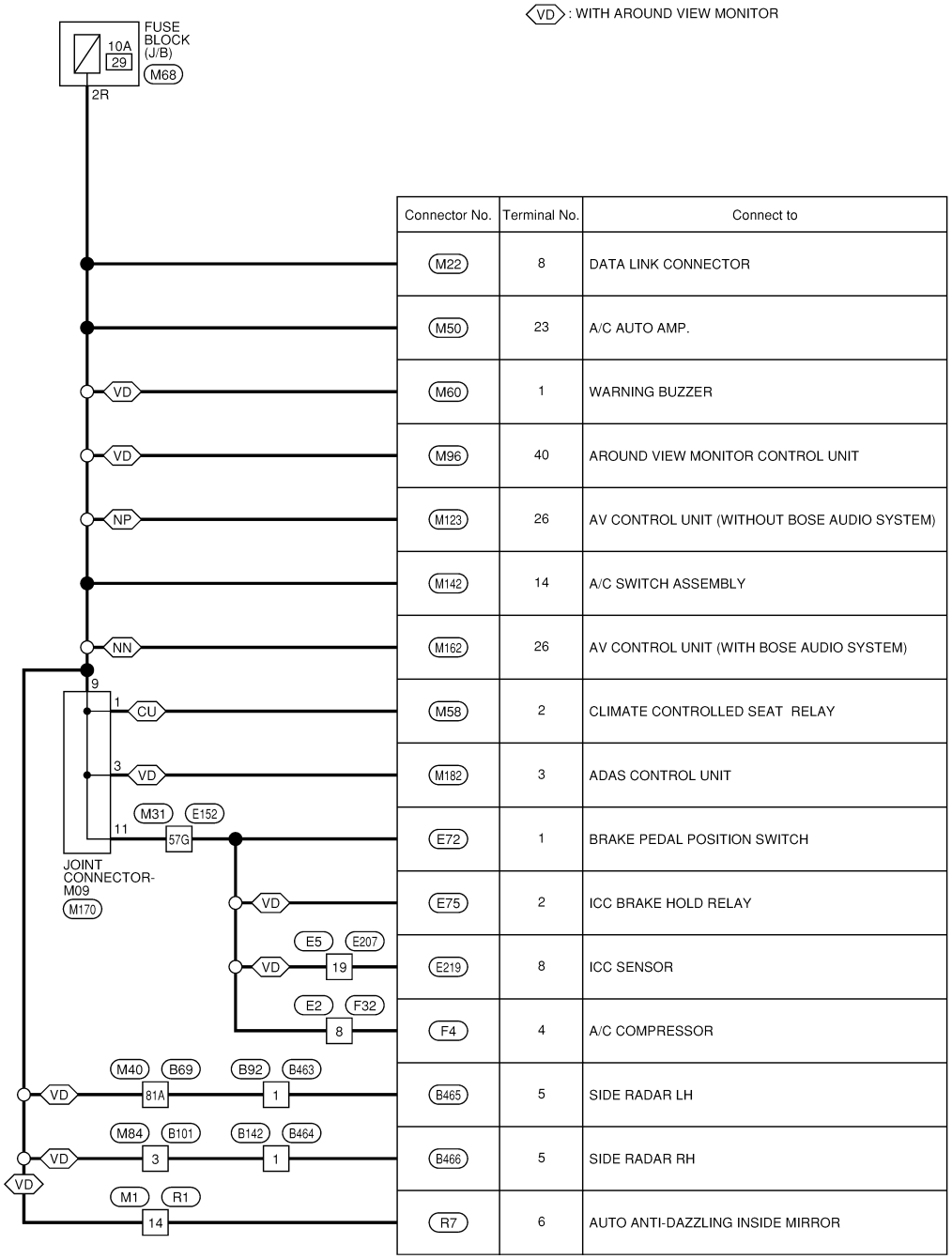
AAMIA3862GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 29 -

INFOID:0000000013326347

IGNITION POWER SUPPLY FUSE No. 29

CU : WITH CLIMATE CONTROLLED SEAT
NN : WITH NAVIGATION SYSTEM AND BOSE AUDIO SYSTEM
NP : WITH NAVIGATION SYSTEM WITHOUT BOSE AUDIO SYSTEM
VD : WITH AROUND VIEW MONITOR



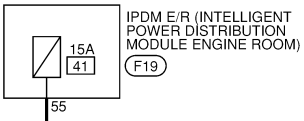
Connector No.	Terminal No.	Connect to
M22	8	DATA LINK CONNECTOR
M50	23	A/C AUTO AMP.
M60	1	WARNING BUZZER
M96	40	AROUND VIEW MONITOR CONTROL UNIT
M123	26	AV CONTROL UNIT (WITHOUT BOSE AUDIO SYSTEM)
M142	14	A/C SWITCH ASSEMBLY
M162	26	AV CONTROL UNIT (WITH BOSE AUDIO SYSTEM)
M58	2	CLIMATE CONTROLLED SEAT RELAY
M182	3	ADAS CONTROL UNIT
E72	1	BRAKE PEDAL POSITION SWITCH
E75	2	ICC BRAKE HOLD RELAY
E219	8	ICC SENSOR
F4	4	A/C COMPRESSOR
B465	5	SIDE RADAR LH
B466	5	SIDE RADAR RH
R7	6	AUTO ANTI-DAZZLING INSIDE MIRROR

AAMIA3864GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 41-

INFOID:0000000013326348

IGNITION POWER SUPPLY FUSE No. 41



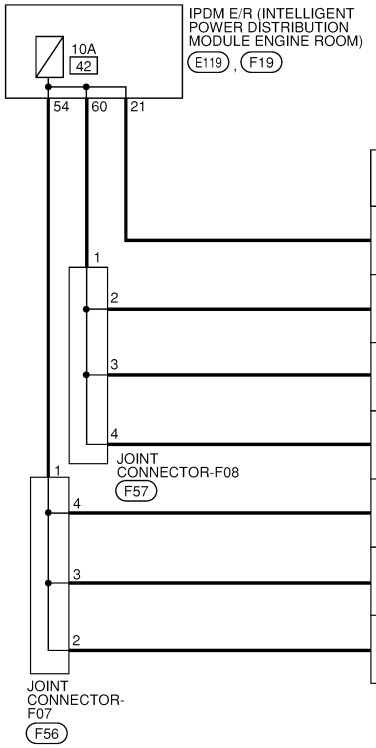
Connect No.	Terminal No.	Connect to
F8	3	IGNITION COIL NO. 2 (WITH POWER TRANSISTOR)
F9	3	IGNITION COIL NO. 4 (WITH POWER TRANSISTOR)
F10	3	IGNITION COIL NO. 6 (WITH POWER TRANSISTOR)
F26	1	CONDENSER-1
F47	3	IGNITION COIL NO. 1 (WITH POWER TRANSISTOR)
F48	3	IGNITION COIL NO. 3 (WITH POWER TRANSISTOR)
F49	3	IGNITION COIL NO. 5 (WITH POWER TRANSISTOR)

AAMIA3865GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 42 -

INFOID:0000000013326349

IGNITION POWER SUPPLY FUSE No. 42



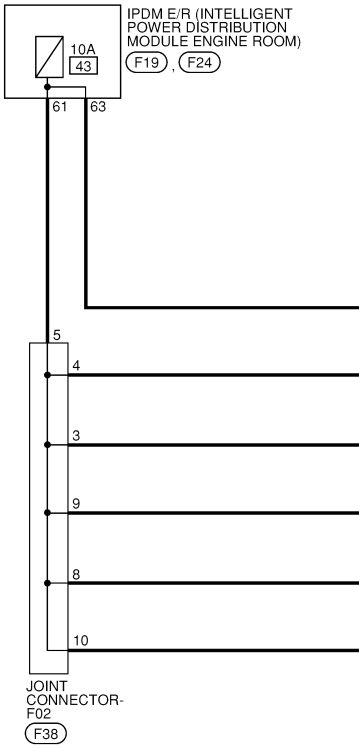
Connect No.	Terminal No.	Connect to
E32	133	ECM
F18	1	FUEL INJECTOR NO. 2
F20	1	FUEL INJECTOR NO. 4
F22	1	FUEL INJECTOR NO. 6
F21	1	FUEL INJECTOR NO. 5
F41	1	FUEL INJECTOR NO. 3
F42	1	FUEL INJECTOR NO. 1

AAMIA3866GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 43 -

INFOID:0000000013326350

IGNITION POWER SUPPLY FUSE No. 43



Connect No.	Terminal No.	Connect to
F29	7	TRANSMISSION RANGE SWITCH
F25	47	TCM (TRANSMISSION CONTROL MODULE)
F25	48	TCM (TRANSMISSION CONTROL MODULE)
F35	3	PRIMARY SEED SENSOR
F36	3	OUTPUT SEED SENSOR
F37	3	INTPUT SEED SENSOR

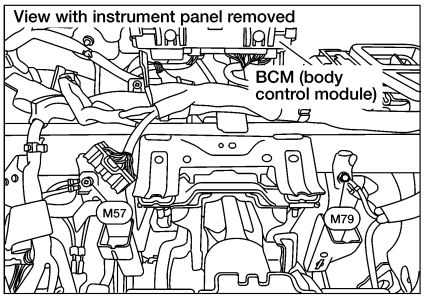
AAMIA3867GB

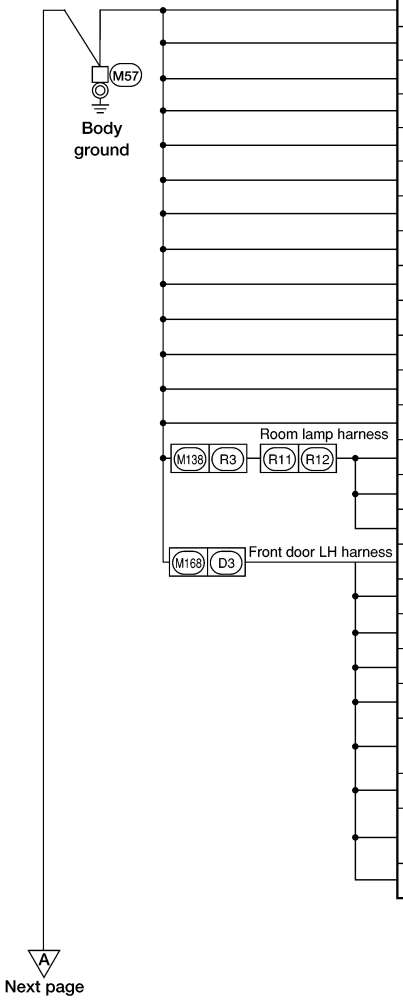
GROUND

Ground Distribution

INFOID:0000000012875215

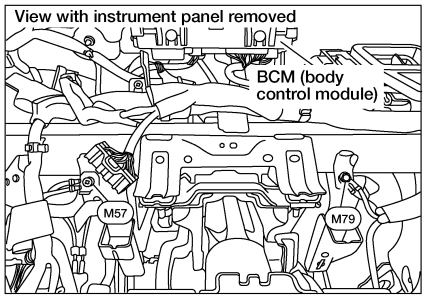
MAIN HARNESS

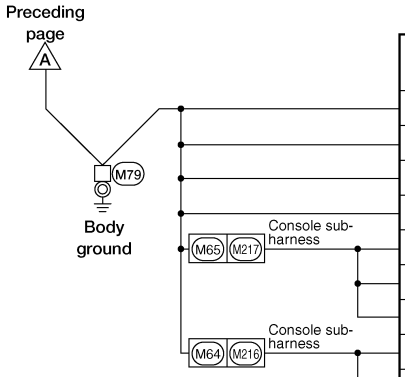




CONNECTOR NUMBER	CONNECT TO
M6	Accessory relay-2
M34	Automatic drive positioner control unit (Terminal No. 30)
M48	Heated steering wheel switch (Terminal No. 3)
M48	Heated steering wheel switch (Terminal No. 8)
M60	Warning buzzer
M68	Fuse block J/B
M71	VDC OFF switch
M81	BCM (body control module) (Terminal No. 134)
M81	BCM (body control module) (Terminal No. 143)
M112	Front blower motor
M186	Automatic back door switch
M198	ECO mode switch
M199	Front power return switch
R4	Moonroof motor assembly
R5	Sunshade motor assembly
R9	Moonroof switch
D4	Door mirror LH (Terminal No. 17)
D4	Door mirror LH (Terminal No. 21)
D7	Main power window and door lock/unlock switch (Terminal No. 1)
D14	Front door lock assembly LH
D15	Front outside handle assembly LH
D16	Door mirror remote control switch (without automatic drive positioner) (Terminal No. 10)
D21	Blind spot warning indicator LH
D22	Door mirror remote control switch (with automatic drive positioner) (Terminal No. 15)
D23	Seat memory switch

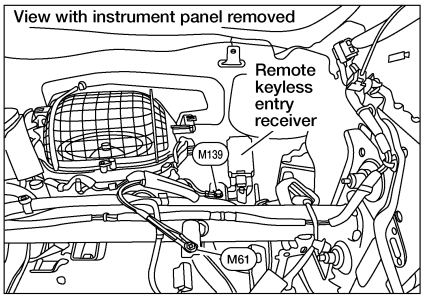
AAMIA3434GB

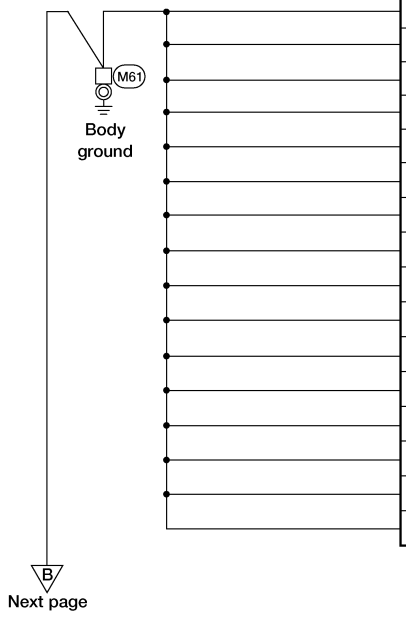




CONNECTOR NUMBER	CONNECT TO
M78	CVT shift selector (Terminal No. 4)
M78	CVT shift selector (Terminal No. 11)
M83	Hazard switch
M145	Console power socket
M203	Climate controlled seat switch (driver seat)
M206	Climate controlled seat switch (passenger seat)
M208	Push-button ignition switch
M207	Front power socket
M212	Front heated seat switch LH
M213	Front heated seat switch RH

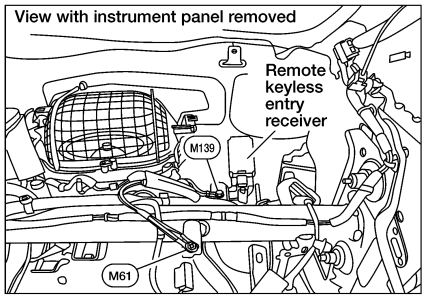
AAMIA3013GB

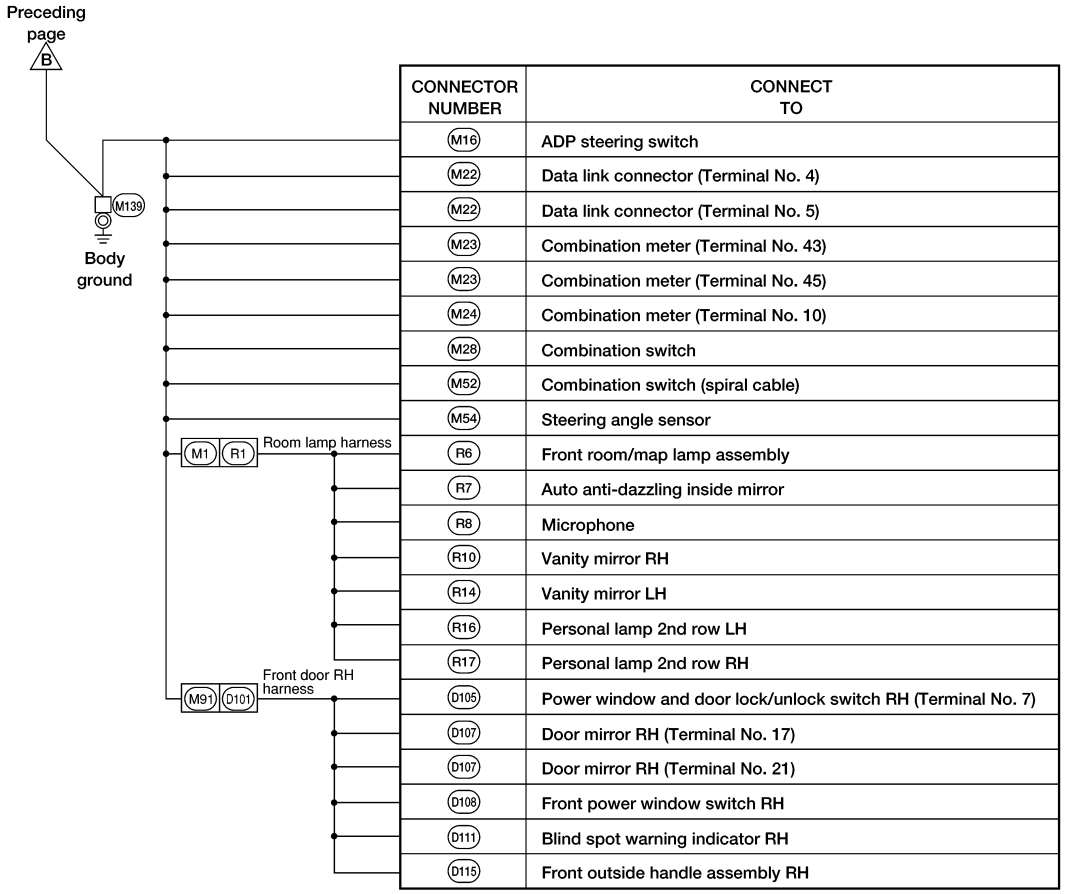




CONNECTOR NUMBER	CONNECT TO
M5	Can gateway (Terminal No. 5)
M5	Can gateway (Terminal No. 11)
M29	Dongle unit
M35	Air bag diagnosis sensor unit (Terminal No. 27)
M42	Audio unit (Terminal No. 44)
M42	Audio unit (Terminal No. 45)
M44	Audio unit (Terminal No. 20)
M50	A/C auto amp. (Terminal No. 2)
M50	A/C auto amp. (Terminal No. 22)
M58	Climate controlled seat relay
M86	Remote keyless entry receiver
M113	Front passenger air bag OFF indicator
M119	Ionizer
M142	A/C switch assembly
M182	Adas control unit (Terminal No. 1)
M185	Automatic back door main switch

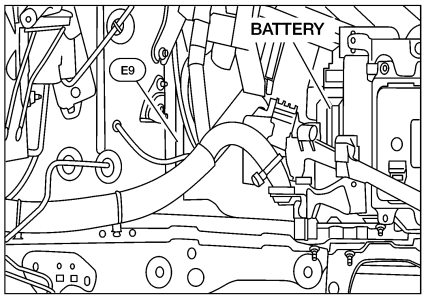
AAMIA3014GB

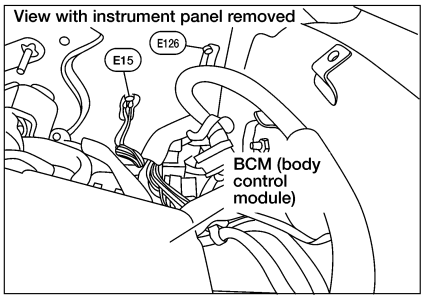


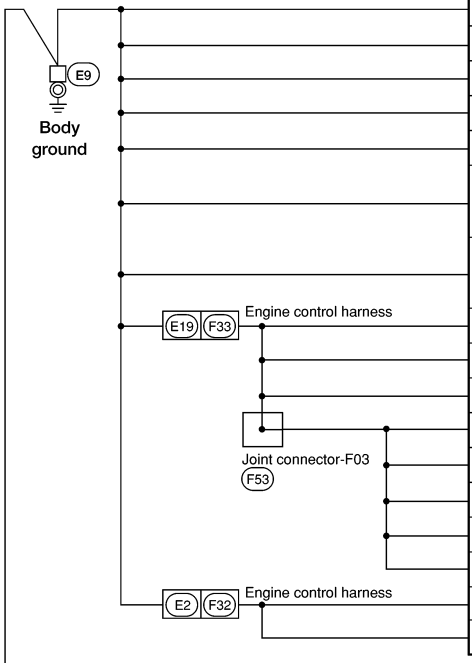


CONNECTOR NUMBER	CONNECT TO
M16	ADP steering switch
M22	Data link connector (Terminal No. 4)
M22	Data link connector (Terminal No. 5)
M23	Combination meter (Terminal No. 43)
M23	Combination meter (Terminal No. 45)
M24	Combination meter (Terminal No. 10)
M28	Combination switch
M52	Combination switch (spiral cable)
M54	Steering angle sensor
R6	Front room/map lamp assembly
R7	Auto anti-dazzling inside mirror
R8	Microphone
R10	Vanity mirror RH
R14	Vanity mirror LH
R16	Personal lamp 2nd row LH
R17	Personal lamp 2nd row RH
D105	Power window and door lock/unlock switch RH (Terminal No. 7)
D107	Door mirror RH (Terminal No. 17)
D107	Door mirror RH (Terminal No. 21)
D108	Front power window switch RH
D111	Blind spot warning indicator RH
D115	Front outside handle assembly RH

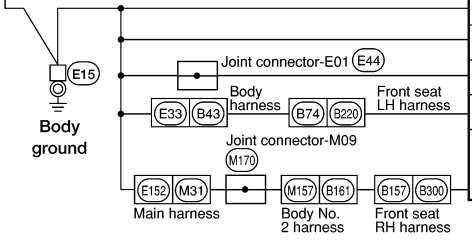
AAMIA3435GB





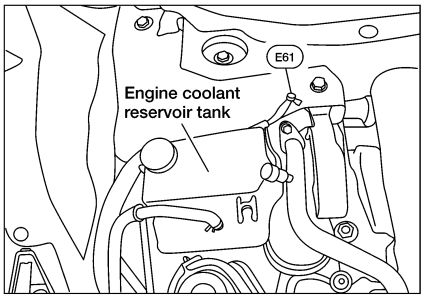


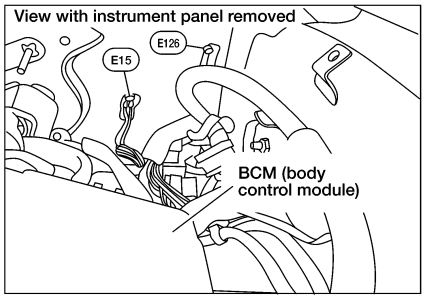
CONNECTOR NUMBER	CONNECT TO
E32	ECM (Terminal No. 147)
E32	ECM (Terminal No. 149)
E32	ECM (Terminal No. 152)
E41	Cooling fan relay-3
E42	Cooling fan relay-2
E119	IPDM E/R (intelligent power distribution module engine room) (Terminal No. 41)
E121	IPDM E/R (intelligent power distribution module engine room) (Terminal No. 7)
F3	A/C compressor
F78	ECM (Terminal No. 10)
F78	ECM (Terminal No. 55)
F25	TCM (transmission control module) (Terminal No. 41)
F25	TCM (transmission control module) (Terminal No. 42)
F35	Primary speed sensor
F36	Output speed sensor
F37	Input speed sensor
F79	ECM (Terminal No. 110)
F79	ECM (Terminal No. 105)

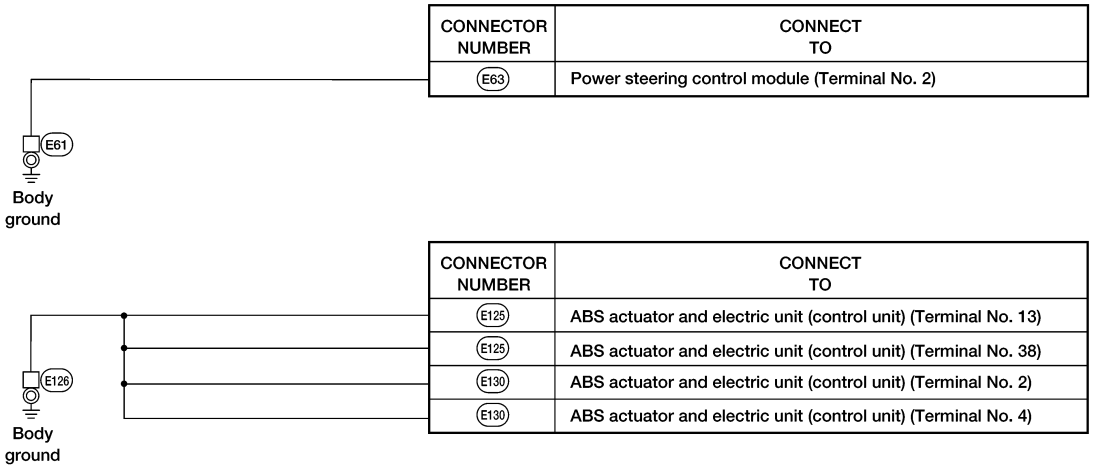


CONNECTOR NUMBER	CONNECT TO
E21	Brake fluid level switch
E56	VDC resistor
E23	Front wiper motor
B205	Climate controlled seat control unit (driver seat) (Terminal No. 27)
B304	Climate controlled seat control unit (passenger seat) (Terminal No. 27)

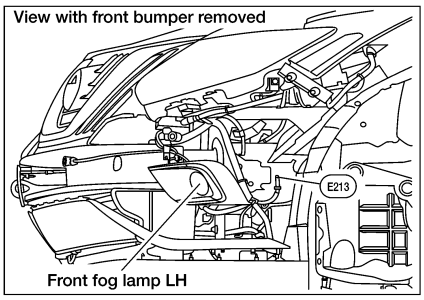
AAMIA3436GB

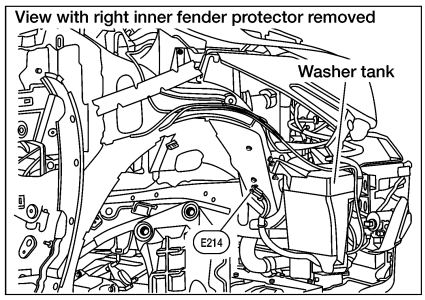


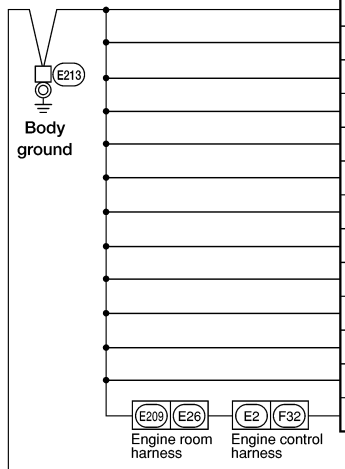




AAMIA3017GB



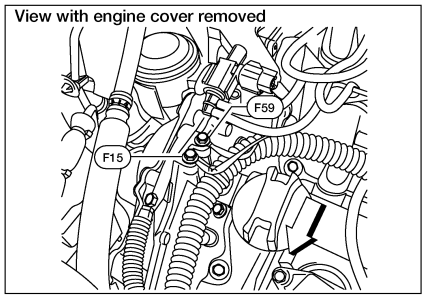


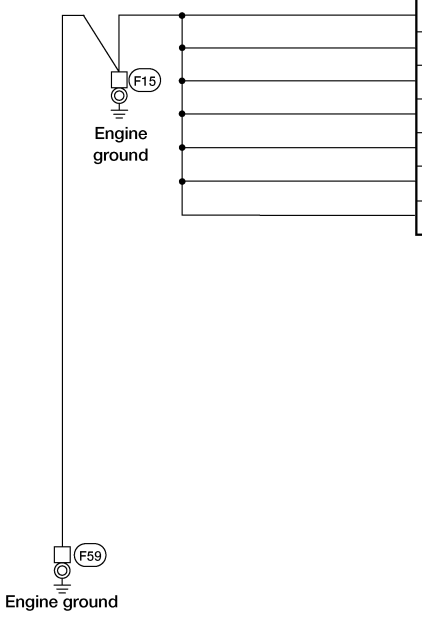


CONNECTOR NUMBER	CONNECT TO
E205	Hood switch
E219	ICC sensor (Terminal No. 1)
E227	Exhaust gas/outside odor detecting sensor
E234	Front combination lamp LH (Terminal No. 10)
E235	Front combination lamp LH (halogen) (Terminal No. 5)
E235	Front combination lamp LH (halogen) (Terminal No. 6)
E237	Cooling fan motor-2 (Terminal No. 4)
E238	Active grille shutter
E239	Front combination lamp RH (halogen) (Terminal No. 7)
E241	Front fog lamp RH
E247	Front combination lamp LH (led) (Terminal No. 5) (led)
E247	Front combination lamp LH (led) (Terminal No. 7)
F79	ECM shield

CONNECTOR NUMBER	CONNECT TO
E208	Washer fluid level switch
E221	Horn (high)
E223	Horn (low)
E235	Front combination lamp LH (halogen) (Terminal No. 7)
E237	Cooling fan motor-2 (Terminal No. 3)
E239	Front combination lamp RH (halogen) (Terminal No. 5)
E239	Front combination lamp RH (halogen) (Terminal No. 6)
E240	Front combination lamp RH (Terminal No. 10)
E242	Front fog lamp LH
E243	Front combination lamp RH (led) (Terminal No. 5)
E243	Front combination lamp RH (led) (Terminal No. 7)

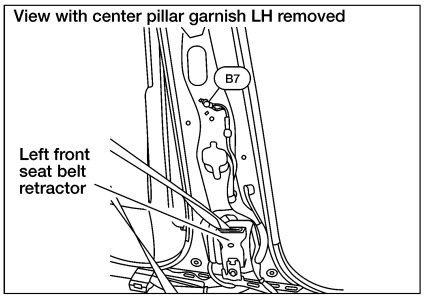
AAMIA3018GB

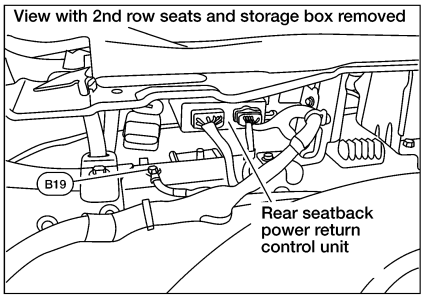


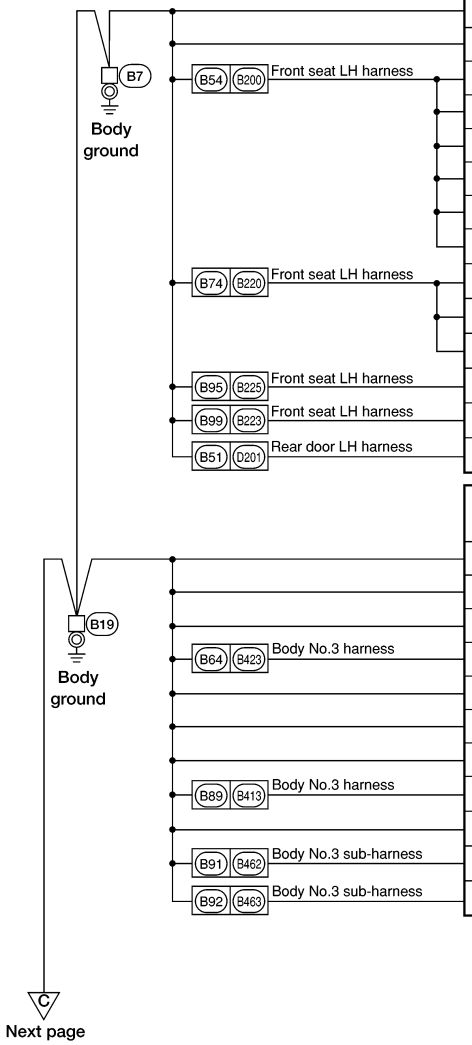


CONNECTOR NUMBER	CONNECT TO
F8	Ignition coil No. 2 (with power transistor)
F9	Ignition coil No. 4 (with power transistor)
F10	Ignition coil No. 6 (with power transistor)
F26	Condenser-1
F47	Ignition coil No. 1 (with power transistor)
F48	Ignition coil No. 3 (with power transistor)
F49	Ignition coil No. 5 (with power transistor)

AAMIA3019GB



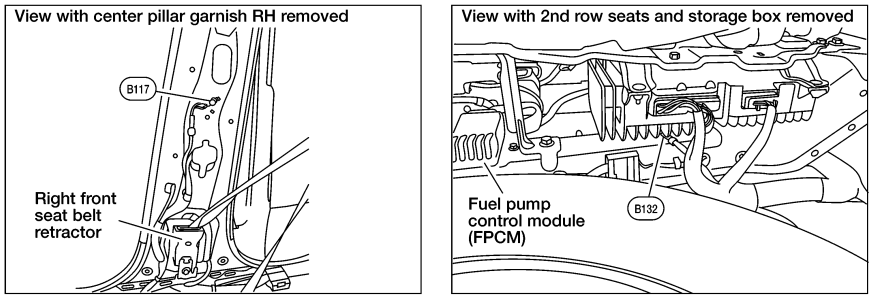


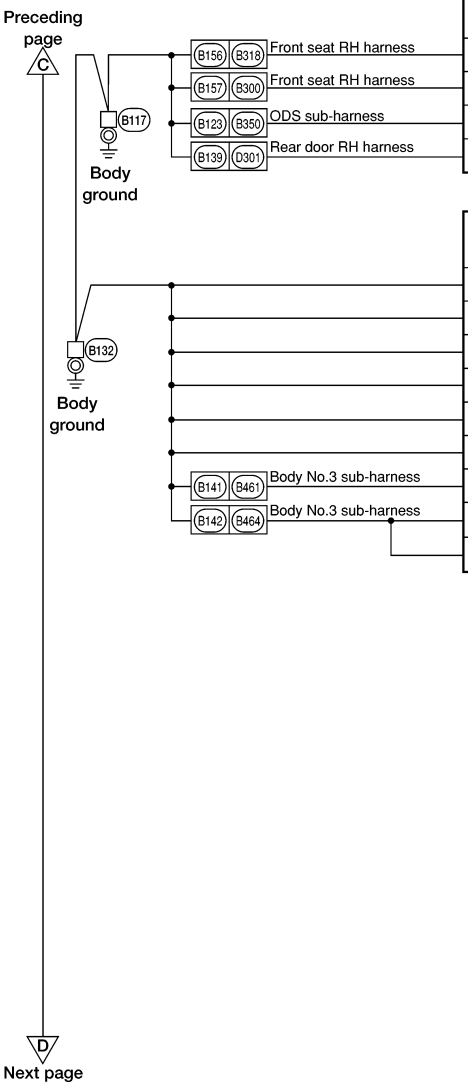


CONNECTOR NUMBER	CONNECT TO
B66	2ND row heated seat switch LH
B68	2ND row heated seat switch RH
B207	Lifting motor LH (rear)
B208	Power seat switch LH
B210	Driver seat control unit (Terminal No. 39)
B211	Sliding motor LH
B217	Reclining motor LH
B218	Lifting motor LH (front)
B201	Lumbar support switch
B214	Front seat heater LH (Terminal No. 1)
B231	Seat belt buckle switch LH (Terminal No. 3)
B231	Seat belt buckle switch LH (Terminal No. 3)
B214	Front seat heater LH (Terminal No. 1)
D203	Rear power window switch LH

CONNECTOR NUMBER	CONNECT TO
B37	Fuel pump control module (FPCM) (Terminal No. 3)
B56	Automatic back door control module (Terminal No. 41)
B56	Automatic back door control module (Terminal No. 42)
B64	Rear seatback power return control unit (Terminal No. 9)
B72	Fuel level sensor unit and fuel pump (main) shield
B79	2ND row seat heater LH
B86	2ND row seat heater RH
B89	Rear seatback power return control unit (Terminal No. 28)
B90	Rear power return switch LH
B460	Rear combination lamp RH
B465	Side radar LH (Terminal No. 8)

AAMIA3020GB

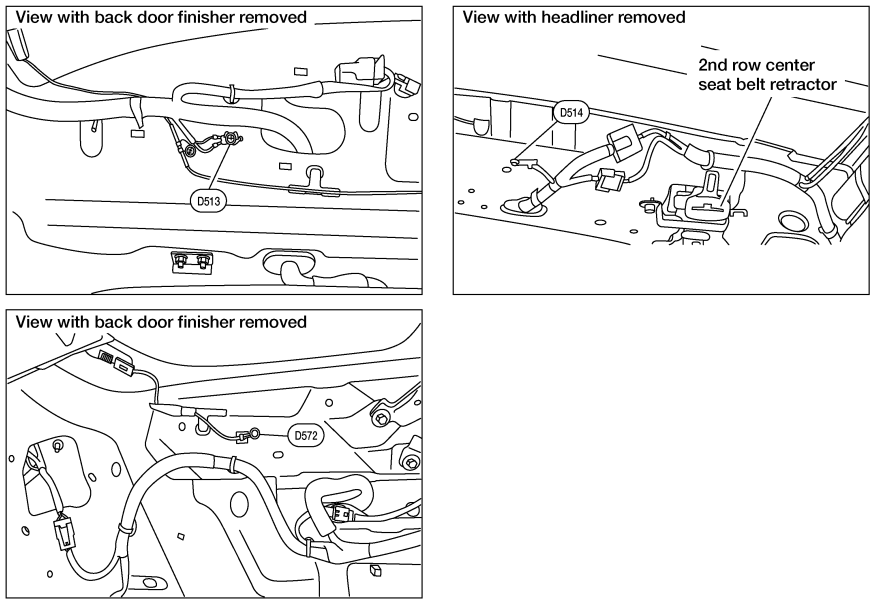




CONNECTOR NUMBER	CONNECT TO
B314	Front seat heater RH (Terminal No. 1)
B314	Front seat heater RH (Terminal No. 1)
B356	Occupant classification system control unit (Terminal No. 2)
D303	Rear power window switch RH

CONNECTOR NUMBER	CONNECT TO
B118	Rear cargo power socket
B120	BOSE speaker amp. (Terminal No. 7)
B120	BOSE speaker amp. (Terminal No. 12)
B135	AWD control unit (Terminal No. 10)
B135	AWD control unit (Terminal No. 11)
B138	Rear power return switch RH
B459	Rear combination lamp RH
B466	Side radar RH (Terminal No. 3)
B466	Side radar RH (Terminal No. 8)

AAMIA3437GB



CONNECTOR NUMBER	CONNECT TO
D503	High mounted stop lamp
D512	Condenser-2

CONNECTOR NUMBER	CONNECT TO
D559	Back door opener switch (Terminal No. 2)
D559	Back door opener switch (Terminal No. 4)
D560	Automatic back door close switch
D561	License plate lamp LH
D562	License plate lamp RH
D565	Rear combination lamp RH
D566	Rear combination lamp LH
D567	Back door lock assembly (Terminal No. 4)
D553	Rear wiper motor
D567	Back door lock assembly (Terminal No. 2)

CONNECTOR NUMBER	CONNECT TO
D570	Rear window defogger

AAMIA3022GB

HARNESS

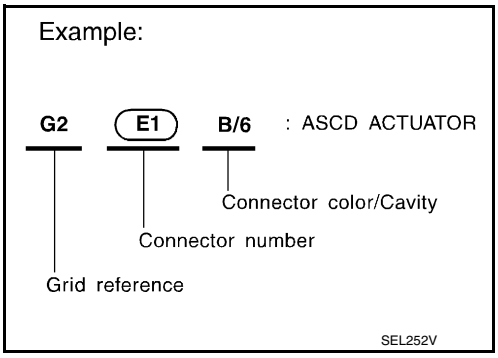
Harness Layout

INFOID:0000000012875216

HOW TO READ HARNESS LAYOUT

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

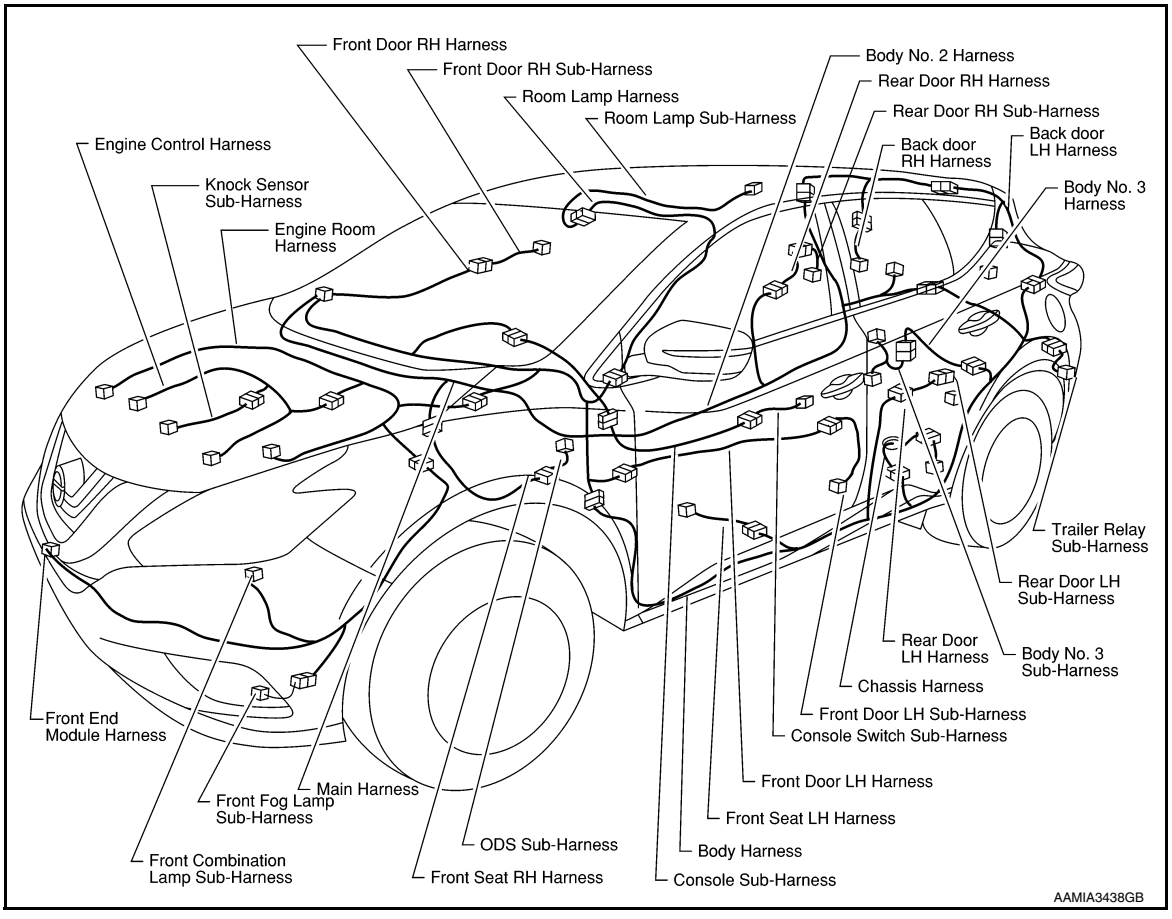
- Main Harness 1, Main Harness 2, Console Sub-harness and Console Switch Sub-harness
- Engine Room Harness
- Engine Room Harness (Passenger Compartment)
- Front End Module Harness, Front Fog Lamp Sub-harness and Front Combination Lamp Sub-harness
- Engine Control Harness and Knock Sensor Sub-harness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

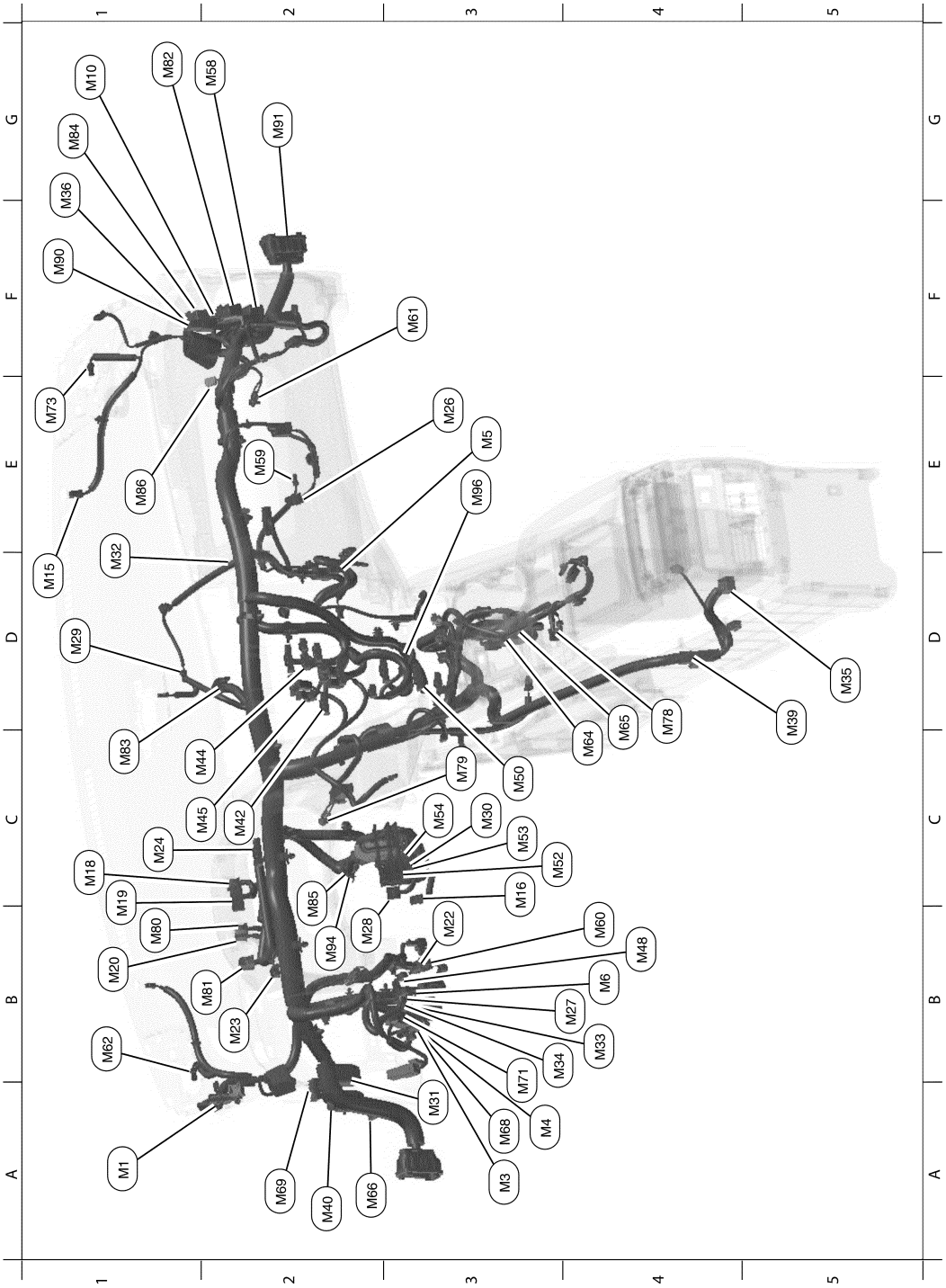


To use the grid reference

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

OUTLINE

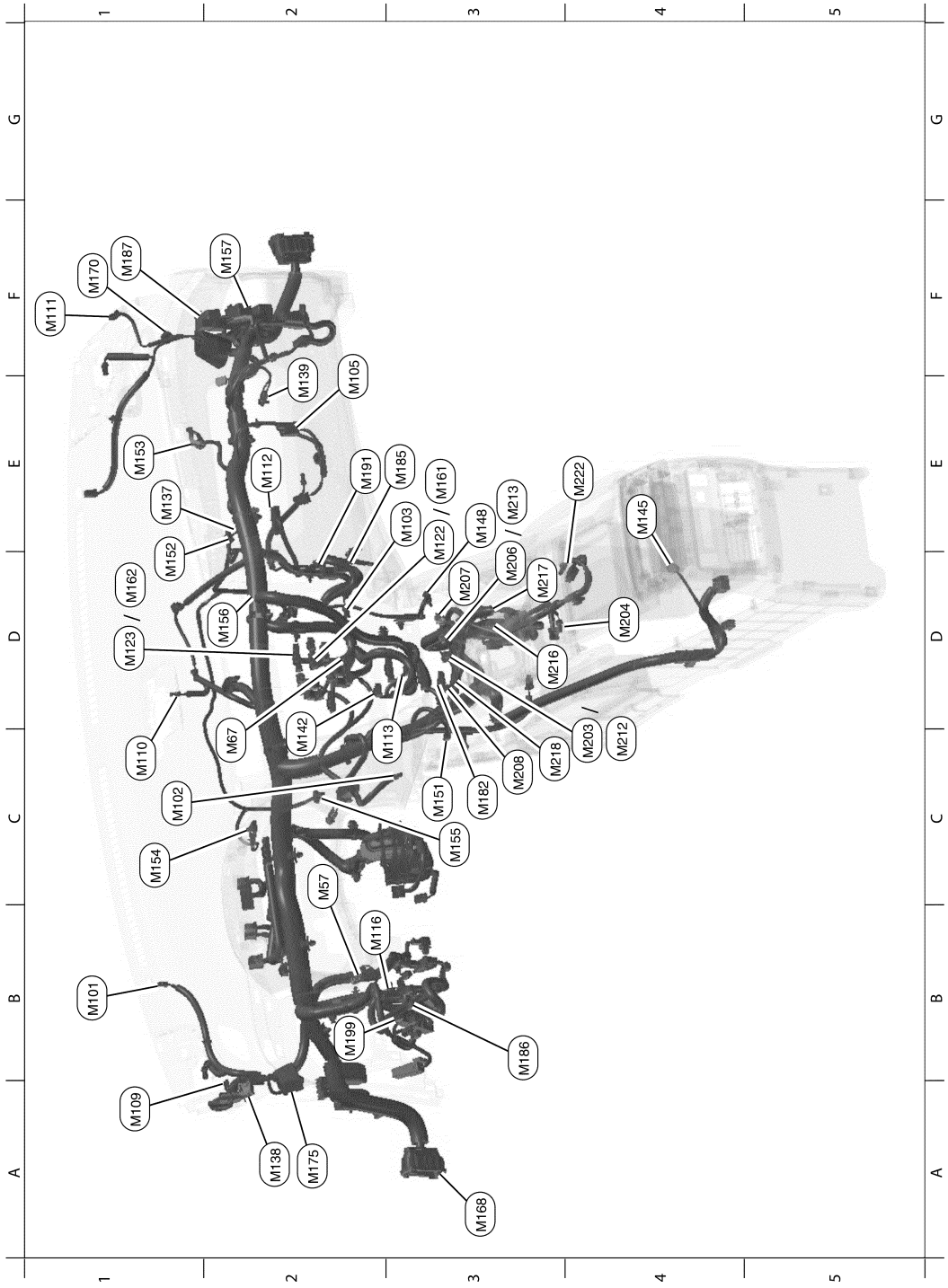




AAMIA0613ZZ

A1	M1	W/32	: To R1	C3	M50	W/40	: A/C auto amp.
A3	M3	W/8	: Fuse block (J/B)	C3	M52	W/2	: Combination switch (Spiral cable)
A3	M4	W/16	: Fuse block (J/B)	C3	M53	Y/6	: Combination switch (Spiral cable)
E3	M5	W/12	: Can gateway	C3	M54	W/8	: Steering angle sensor
B4	M6	B/4	: Accessory relay-2	C2	M57	—	: Body ground

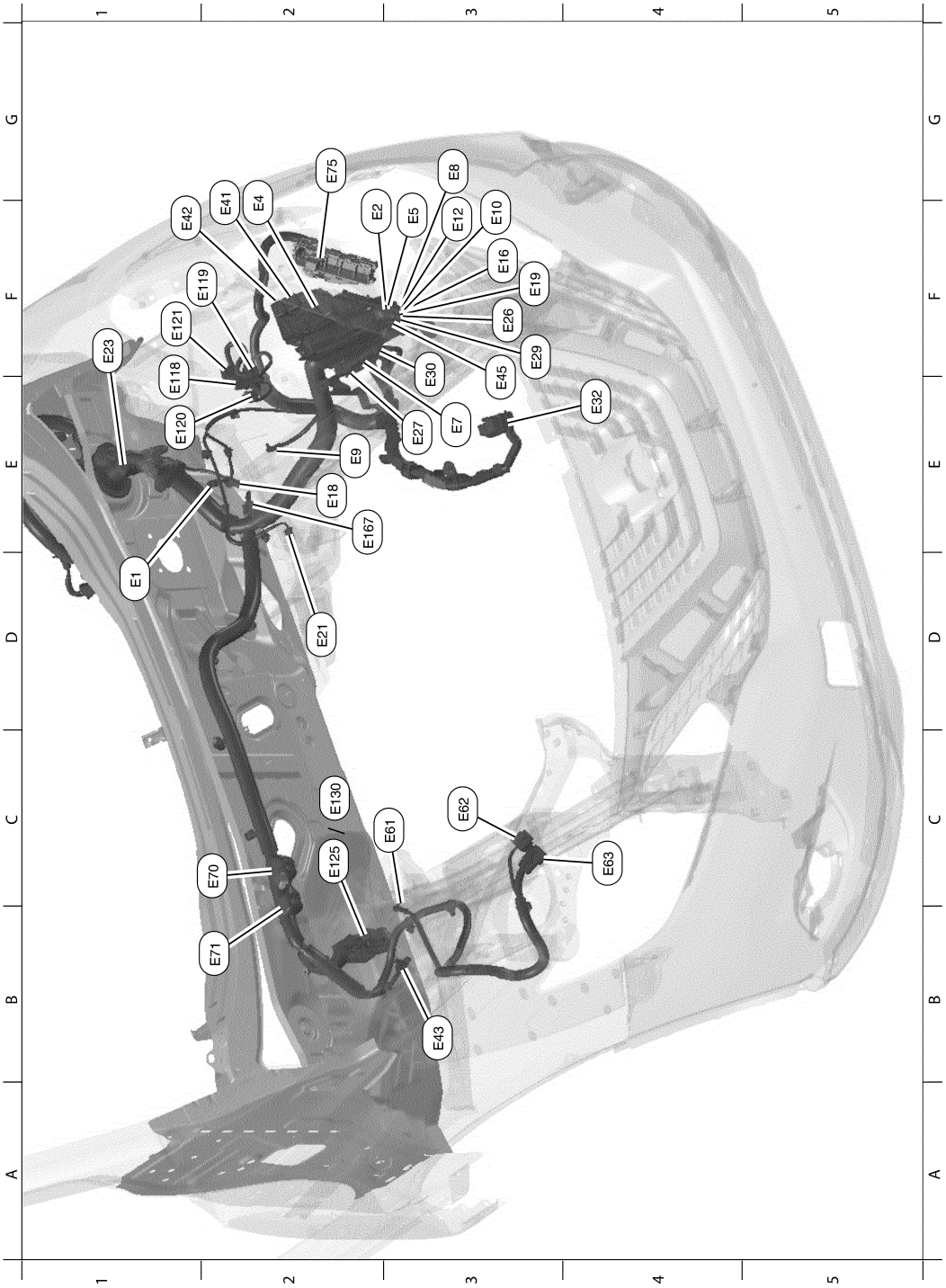
G1	M10	BR/16	: To B111	G2	M58	BR/6	: Climate controlled seat relay
D1	M15	W/3	: Optical sensor	E2	M59	W/2	: Glove box lamp
C3	M16	GR/6	: ADP steering switch	B4	M60	BR/4	: Warning buzzer
C1	M18	G/40	: BCM (Body control module)	F3	M61	—	: Body ground
C1	M19	B/40	: BCM (Body control module)	B1	M62	BR/2	: Instrument panel tweeter LH
B1	M20	GR/24	: BCM (Body control module)	C4	M64	W/16	: To M216
B3	M22	W/16	: Data link connector	D4	M65	W/40	: To M217
B2	M23	W/16	: Combination meter	A2	M66	W/24	: To B6
C1	M24	W/40	: Combination meter	C2	M67	W/4	: Joint connector-M04
E3	M26	Y/2	: Front passenger air bag module	A3	M68	BR/16	: Fuse block (J/B)
B4	M27	W/8	: Meter control switch	A2	M69	W/32	: To B41
B2	M28	W/14	: Combination switch	B3	M71	B/8	: VDC off switch
D1	M29	W/4	: Dongle unit	E1	M73	BR/2	: Instrument panel tweeter RH
C3	M30	GR/8	: Combination switch (Spiral cable)	D4	M78	W/12	: CVT shift selector
A3	M31	W/100	: To E152	C3	M79	—	: Body ground
D1	M32	B/2	: Diode-1	B1	M80	B/24	: BCM (Body control module)
B4	M33	W/24	: Automatic drive positioner control unit	B2	M81	W/15	: BCM (Body control module)
B3	M34	W/6	: Automatic drive positioner control unit	G1	M82	W/2	: Circuit breaker-2
D5	M35	Y/21	: Air bag diagnosis sensor unit	C1	M83	W/4	: Hazard switch
G1	M36	W/40	: To B136	G1	M84	W/32	: To B101
D5	M39	W/4	: Joint connector-M06	C2	M85	W/6	: Tilt motor
A2	M40	GR/ 100	: To B69	E1	M86	B/4	: Remote keyless entry receiver
C2	M42	W/32	: Audio unit	F1	M90	B/4	: Heated steering relay
C1	M44	W/20	: Audio unit	G2	M91	W/55	: To D101
C1	M45	W/8	: Audio unit	B2	M94	BR/6	: Telescopic motor
B4	M48	B/8	: Heated steering wheel switch	E3	M96	W/40	: Around view monitor control unit



AAMIA0426ZZ

B1	M101	B/2	: Sunload sensor	D1	M162	W/40	: AV control unit (With BOSE audio system)
C1	M102	W/2	: In-vehicle sensor	B3	M166	W/8	: Calibration control
E3	M103	W/2	: Intake sensor	A3	M168	W/55	: To D3
E2	M105	Y/4	: Front passenger air bag module	F1	M170	W/33	: Joint connector-M09
A1	M109	BR/2	: Front tweeter LH	E1	M171	W/4	: Joint connector-M10

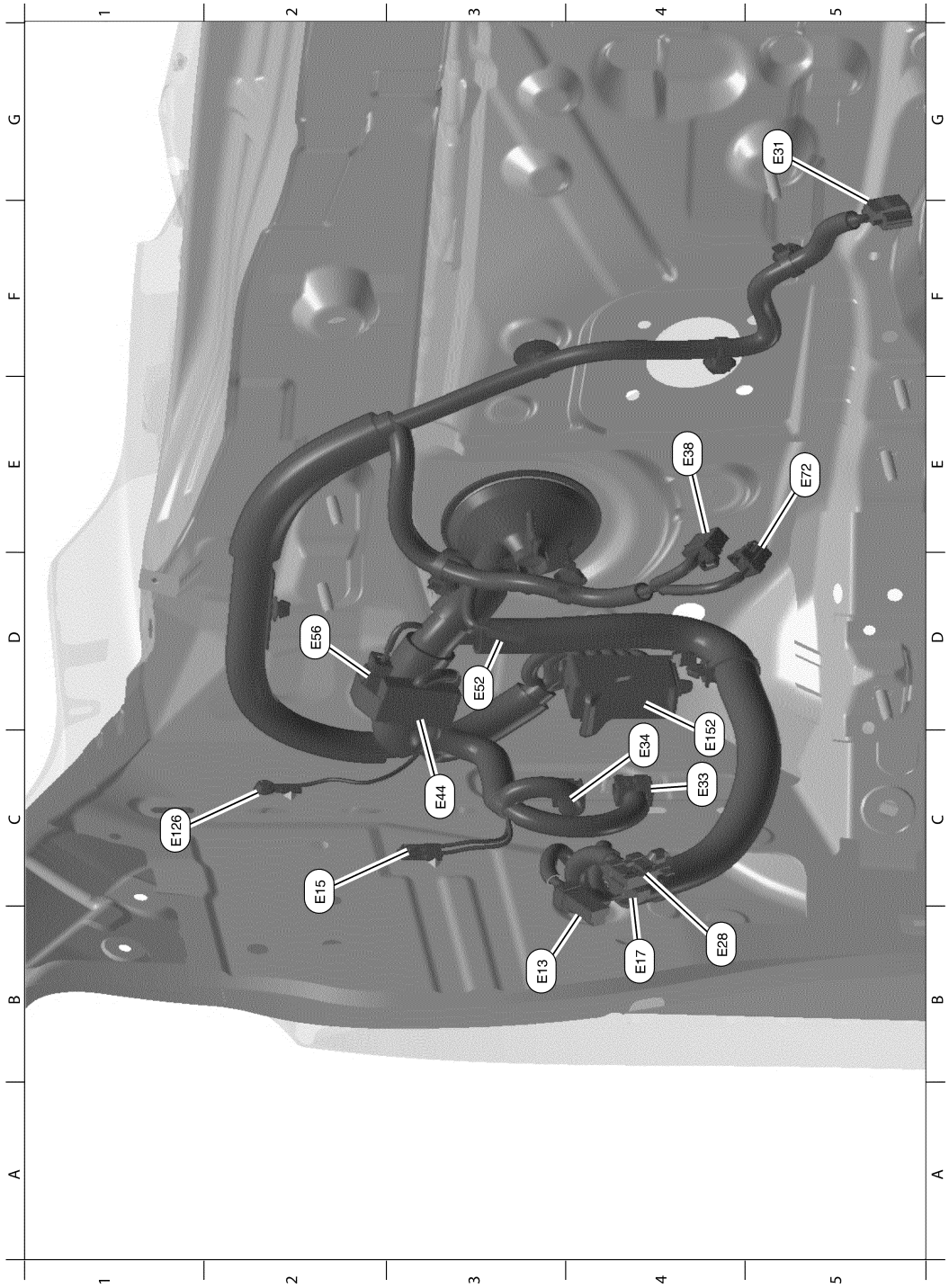
C1	M110	W/2	: Center speaker	E3	M161	W/20	: AV control unit (With BOSE audio system)
F1	M111	BR/2	: Front tweeter RH	A2	M175	W/33	: Joint connector-M22
E2	M112	W/6	: Front blower motor	C3	M182	W/24	: ADAS control unit
C3	M113	B/5	: Front passenger air bag off indicator	E3	M185	W/10	: Automatic back door main switch
B2	M116	Y/2	: Knee air bag module	B3	M186	G/8	: Automatic back door switch
E3	M122	W/20	: AV control unit (Without BOSE audio system)	F1	M187	W/2	: Circuit breaker-1
D1	M123	W/40	: AV control unit (Without BOSE audio system)	E2	M191	W/12	: Accessory prewire RH
E1	M137	W/3	: To M152	B2	M199	W/8	: Front power return switch
A2	M138	W/6	: To R3	Console sub harness			
E2	M139	—	: Body ground	C4	M203	W/10	: Climate controlled seat switch (Driver seat)
C2	M142	W/16	: A/C switch assembly	D4	M204	BR/2	: CVT shift selector
E4	M145	B/3	: Console power socket	D3	M206	BR/8	: Climate controlled seat switch (Passenger seat)
E3	M148	W/4	: Mood lamp (Front console RH)	D3	M207	B/2	: Front power socket
C3	M151	W/4	: Mood lamp (Front console LH)	C3	M208	W/6	: Push-button ignition switch
D1	M152	W/3	: To M137	C4	M212	W/6	: Front heated seat switch LH
E1	M153	W/3	: Intake door motor	E3	M213	BR/6	: Front heated seat switch RH
C1	M154	W/3	: Mode door motor	D3	M216	W/16	: To M64
C3	M155	W/3	: Mode door motor	D3	M217	W/40	: To M65
D2	M156	W/3	: Mode door motor	C3	M218	W/3	: NATS antenna amp.
F2	M157	W/16	: To B161	E4	M222	W/4	: Aux in jack
E3	M161	W/20	: AV control unit (With BOSE audio system)				



AAMIA0427ZZ

D1	E1	BR/3	: Intelligent Key warning buzzer	E4	E32	B/32	: ECM
F2	E2	W/16	: To F32	F2	E41	BR/6	: Cooling fan relay-3
F2	E4	BR/6	: Daytime light relay	F1	E42	BR/6	: Cooling fan relay-2
F3	E5	W/24	: To E207	B3	E43	B/2	: Front wheel sensor RH
E3	E7	GR/2	: Fusible link box (Battery)	E3	E45	B/12	: Joint connector-E12

G3	E8	W/3	: Anti theft horn relay	C3	E61	—	: Body ground
E2	E9	—	: Engine ground	C3	E62	B/6	: Power steering control module
F3	E10	W/12	: To E230	C4	E63	B/2	: Power steering control module
F3	E12	W/6	: To E202	C2	E70	B/6	: Joint connector-E14
F3	E16	W/4	: Joint connector-E21	B2	E71	B/6	: Joint connector-E15
E2	E18	B/2	: Front wheel sensor LH	G2	E75	B/4	: ICC brake hold relay
F3	E19	BR/8	: To F33	E1	E118	B/2	: IPDM E/R (Intelligent power distribution module engine room)
D2	E21	GR/2	: Brake fluid level switch	F2	E119	W/32	: IPDM E/R (Intelligent power distribution module engine room)
F1	E23	GR/5	: Front wiper motor	E1	E120	W/4	: IPDM E/R (Intelligent power distribution module engine room)
F3	E26	W/16	: To E209	F1	E121	W/12	: IPDM E/R (Intelligent power distribution module engine room)
E3	E27	BR/2	: Fusible link box (Battery)	C2	E125	B/38	: ABS actuator and electric unit (Control unit) (Without ICC)
F3	E29	Y/4	: To E210	C2	E130	B/38	: ABS actuator and electric unit (Control unit) (With ICC)
F3	E30	B/1	: Fusible link box (Battery)	E2	E167	B/3	: Vacuum sensor

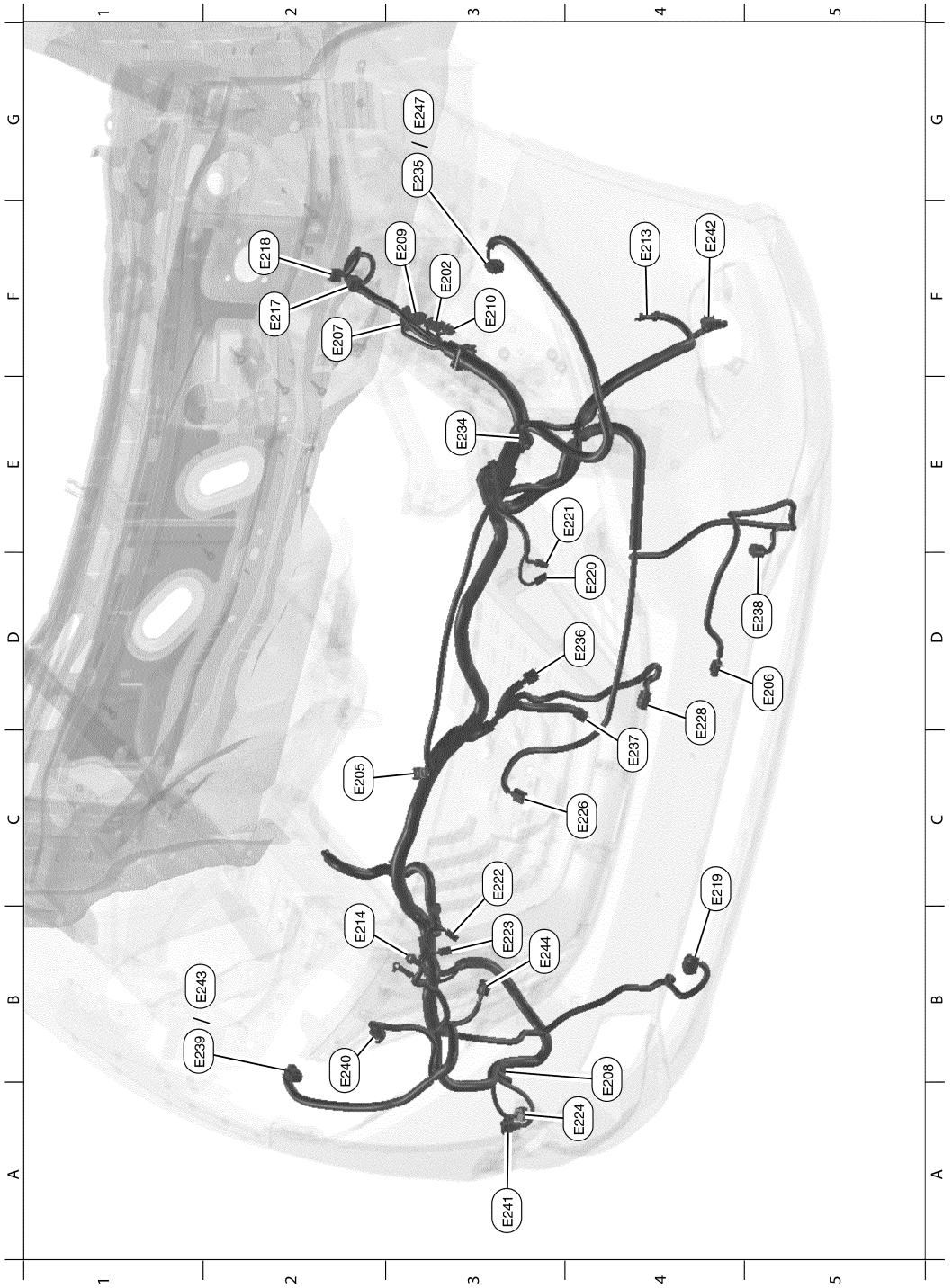


AAMIA0428ZZ

B3	E13	W/1	: Fuse block (J/B)	E4	E38	W/4	: Stop lamp switch
C2	E15	—	: Engine ground	C3	E44	W/33	: Joint connector-E01
B4	E17	W/1	: Fuse block (J/B)	D3	E52	B/1	: Parking brake switch
B4	E28	W/10	: Fuse block (J/B)	D2	E56	BR/2	: VDC resistor
G5	E31	B/6	: Accelerator pedal position sensor	E5	E72	BR/2	: Brake pedal position switch (With intelligent cruise control)

C4	E33	W/8	: To B43	C1	E126	—	: Engine ground
C4	E34	W/16	: To B40	C4	E152	W/100	: To M31

FRONT END MODULE HARNESS



AAMIA0615ZZ

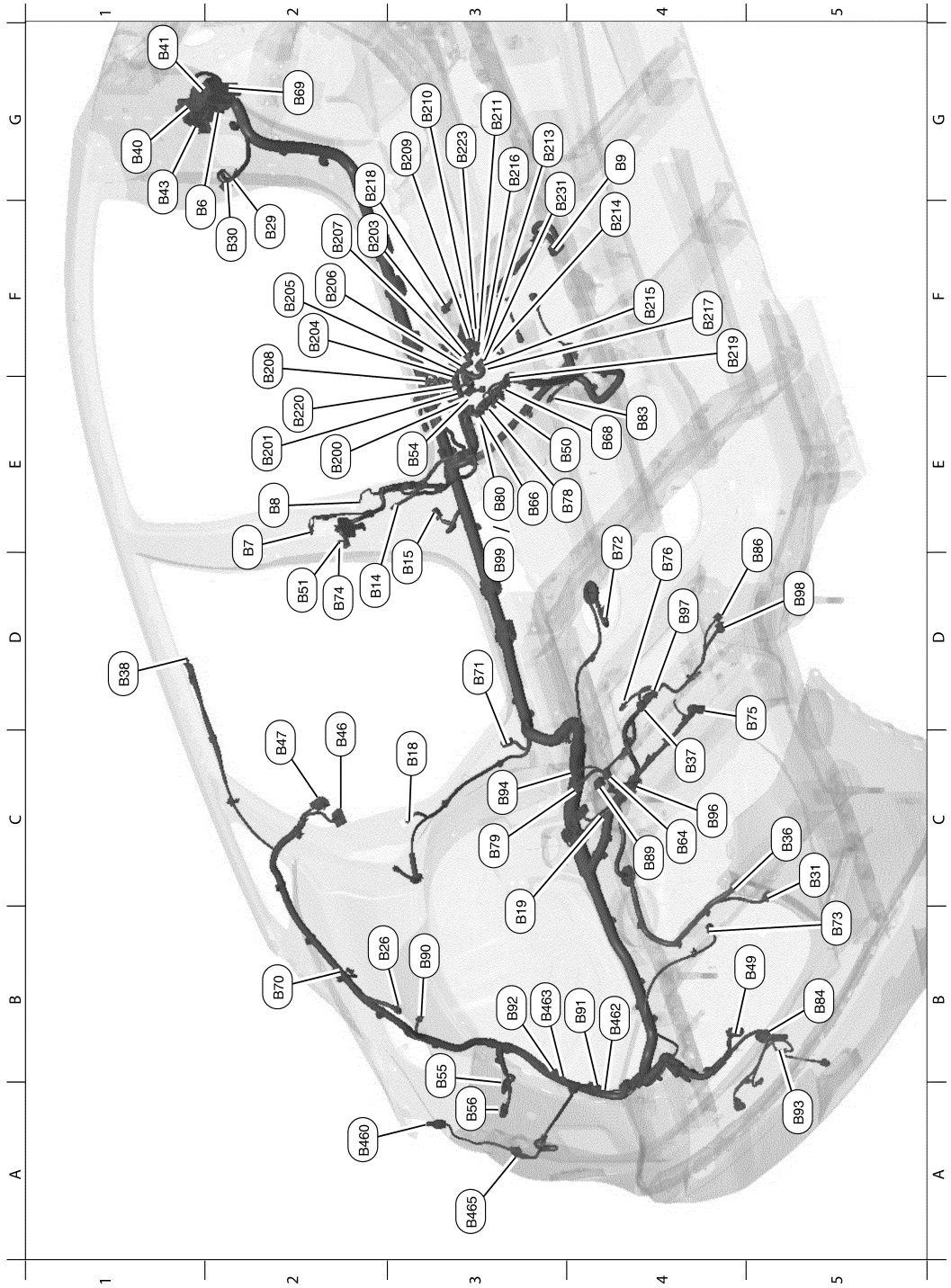
F2	E202	W/6	: To E12	A4	E224	GR/2	: Front and rear washer motor
C2	E205	BR/3	: Hood switch	C4	E226	B/6	: Front camera
D5	E206	B/2	: Ambient sensor	D4	E228	Y/2	: Crash zone sensor

F2	E207	W/24	: To E5	E3	E234	GR/3	: Front combination lamp LH turn signal
B4	E208	GR/2	: Washer fluid level switch	G3	E235	B/8	: Front combination lamp LH
F3	E209	W/16	: To E26	D4	E236	GR/4	: Cooling fan motor-1
F3	E210	Y/4	: To E29	C4	E237	GR/4	: Cooling fan motor-2
F4	E213	—	: Body ground	D5	E238	B/4	: Active grille shutter
B2	E214	—	: Body ground	B1	E239	B/8	: Front combination lamp RH
F2	E217	W/8	: IPDM E/R (Intelligent power distribution module engine room)	B2	E240	GR/3	: Front combination lamp RH turn signal
F2	E218	W/16	: IPDM E/R (Intelligent power distribution module engine room)	A3	E241	B/2	: Front fog lamp RH
C4	E219	B/8	: ICC sensor	F4	E242	B/2	: Front fog lamp LH
D4	E220	BR/1	: Horn (High)	B1	E243	B/8	: Front combination lamp RH
E4	E221	B/1	: Horn (High)	B3	E244	B/3	: Refrigerant pressure sensor
C3	E222	BR/1	: Horn (Low)	G3	E247	B/8	: Front combination lamp LH
B3	E223	B/1	: Horn (Low)				

AAMIA0614ZZ

B5	F3	B/2	: A/C compressor	C2	F47	GR/3	: Ignition coil no.1 (With power transistor)
B5	F4	GR/2	: A/C compressor	C2	F48	GR/3	: Ignition coil no. 3 (With power transistor)
C4	F6	—	: Generator	D2	F49	GR/3	: Ignition coil no. 5 (With power transistor)

C4	F7	B/3	: Generator	E2	F50	B/6	: Electric throttle control actuator
C5	F8	GR/3	: Ignition coil no. 2 (With power transistor)	E5	F53	B/10	: Joint connector-F03
C5	F9	GR/3	: Ignition coil no. 4 (With power transistor)	E5	F54	GR/4	: Heated oxygen sensor 2 (Bank 2)
D5	F10	GR/3	: Ignition coil no. 6 (With power transistor)	F5	F55	B/10	: Joint connector-F04
E3	F11	GR/2	: Engine coolant temperature sensor	G4	F56	W/4	: Joint connector-F07
C2	F12	GR/4	: Air fuel ratio (A/F) sensor (Bank 1)	G4	F57	W/4	: Joint connector-F08
F5	F14	B/10	: Joint connector-F01	B4	F59	—	: Engine ground
B4	F15	—	: Engine ground	D4	F60	B/3	: Intake camshaft position sensor (PHASE) (Bank 2)
D4	F16	B/2	: Evap canister purge volume control solenoid valve	C5	F61	GR/4	: Air fuel ratio (A/F) sensor (Bank 2)
F3	F17	B/1	: IPDM E/R (Intelligent power distribution module engine room)	A2	F62	GR/4	: Heated oxygen sensor 2 (Bank 1)
C3	F18	GR/2	: Fuel injector no. 2	C3	F63	B/2	: VIAS control solenoid valve 2
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	C3	F65	B/2	: VIAS control solenoid valve 2
D3	F21	GR/2	: Fuel injector no. 5	A4	F66	GR/2	: Intake valve timing control solenoid valve (Bank 2)
D3	F22	GR/2	: Fuel injector no. 6	A3	F67	GR/2	: Intake valve timing control solenoid valve (Bank 1)
F3	F24	W/12	: IPDM E/R (Intelligent power distribution module engine room)	B3	F68	GR/2	: Engine oil temperature sensor
E5	F25	B/48	: TCM (Transmission control module)	F4	F69	—	: Fusible link box (Battery)
C4	F26	W/2	: Condenser-1	D5	F70	B/3	: Exhaust camshaft position sensor (PHASE) (Bank 2)
F4	F27	—	: Starter motor	A3	F72	GR/2	: Exhaust valve timing control solenoid valve (Bank 1)
F4	F28	GR/1	: Starter motor	B4	F73	GR/2	: Exhaust valve timing control solenoid valve (Bank 2)
E4	F29	B/10	: Transmission range switch	A2	F74	GR/2	: Intake valve timing intermediate lock control solenoid valve (Bank 1)
D5	F30	B/3	: Crankshaft position sensor (POS)	A4	F75	GR/2	: Intake valve timing intermediate lock control solenoid valve (Bank 2)
D2	F31	B/3	: Exhaust camshaft position sensor (PHASE) (Bank 1)	D3	F76	B/4	: To F201
F4	F32	W/16	: To E2	D2	F77	B/3	: Intake camshaft position sensor (PHASE) (Bank 1)
G4	F33	BR/8	: To E19	E5	F78	B/55	: ECM
F3	F35	B/3	: Primary speed sensor	E5	F79	B/65	: ECM
F2	F36	B/3	: Output speed sensor	A3	F87	B/3	: Engine oil pressure sensor
E4	F37	B/3	: Input speed sensor	E3	F93	B/4	: Mass air flow sensor
G5	F38	B/10	: Joint connector-F02	Knock sensor sub-harness			
F4	F39	—	: Fusible link box (Battery)	D3	F201	B/4	: To F76
C3	F41	GR/2	: Fuel injector no. 3	C3	F202	GR/2	: Knock sensor (Bank 1)
B3	F42	GR/2	: Fuel injector no. 1	C3	F203	GR/2	: Knock sensor (Bank 2)
F4	F43	GR/22	: CVT unit				



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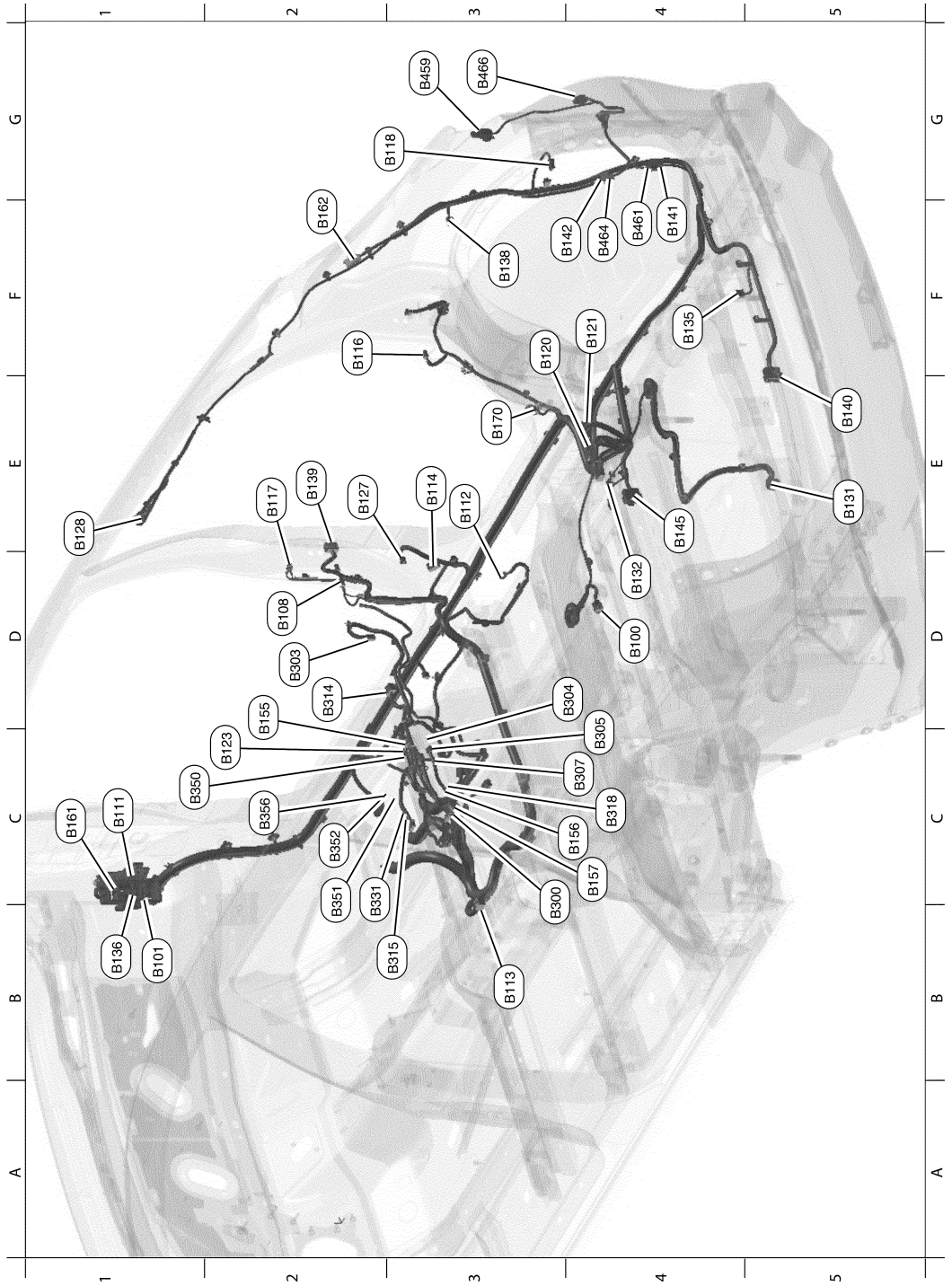
F1	B6	W/24	: To M66	E4	B83	GR/2	: Inside key antenna (Console)
E2	B7	—	: Body ground	B5	B84	GR/2	: Outside key antenna (Rear bumper)
E2	B8	W/4	: Front door switch LH	E5	B86	W/3	: 2nd row seat heater RH
G4	B9	Y/14	: Air bag diagnosis sensor unit	C4	B89	W/16	: Rear seatback power return control unit
D2	B14	Y/2	: Front LH seat belt pre-tensioner	B3	B90	W/4	: Rear power return switch LH

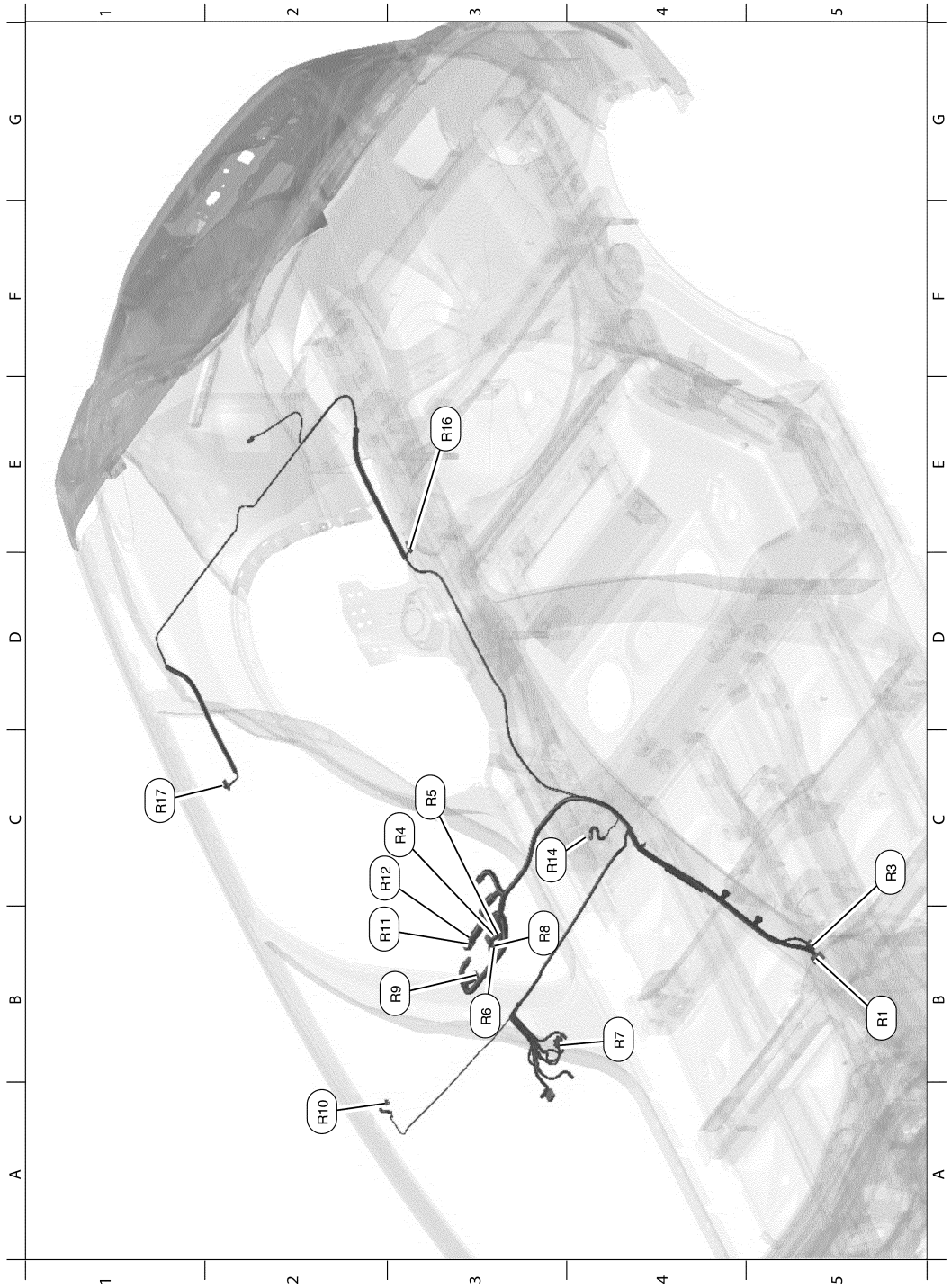
D3	B15	Y/2	: Front side air bag satellite sensor LH	B4	B91	W/4	: To B462
C3	B18	W/4	: Rear door swtich LH	B3	B92	W/8	: To B463
B2	B26	W/2	: Luggage room lamp	A5	B93	BR/2	: Back door warning chime
F2	B29	W/6	: Fuse block (J/B)	C3	B94	W/8	: To B402
F2	B30	W/8	: Fuse block (J/B)	C4	B96	B/2	: Diode-2
C5	B31	B/2	: Evap canister vent control valve	D4	B97	B/2	: Diode-3
C5	B36	GR/3	: Evap control system pressure sensor	D5	B98	W/8	: To B424
C4	B37	B/6	: Fuel pump control module (FPCM)	D3	B99	W/6	: To B223
D1	B38	Y/2	: LH side curtain air bag module	Front seat LH harness			
G1	B40	W/16	: To E34	E2	B200	BR/12	: To B54
G1	B41	W/32	: To M69	E2	B201	BR/4	: Lumbar support switch
G1	B43	W/8	: To E33	F2	B203	B/16	: Climate controlled seat control unit (Driver seat)
C2	B46	W/32	: To D501	F2	B204	B/8	: Climate controlled seat control unit (Driver seat)
C2	B47	GR/8	: To D502	F2	B205	B/6	: Climate controlled seat control unit (Driver seat)
B5	B49	W/16	: To B140	F2	B206	W/4	: Seat cushion thermal electric device
E3	B50	W/4	: Mood lamp (Rear console RH)	F2	B207	W/6	: Lifting motor LH (Rear)
D2	B51	W/12	: To D201	F2	B208	W/10	: Power seat switch LH
E3	B54	BR/12	: To B200	G3	B209	W/32	: Driver seat control unit
B3	B55	W/32	: Automatic back door control module	G3	B210	W/12	: Driver seat control unit
A3	B56	W/12	: Automatic back door control module	G3	B211	GR/5	: Sliding motor LH
C4	B64	W/16	: Rear seatback power return control unit	G3	B213	W/5	: Climate controlled seat blower motor (Driver seat)
E3	B66	W/6	: 2nd row heated seat switch LH	F4	B214	W/3	: Front seat heater LH
E4	B68	BR/6	: 2nd row heated seat switch RH	F4	B215	W/2	: Seat heater (Cushion) LH
G2	B69	GR/ 100	: To M40	G3	B216	B/2	: Lumbar support motor
B2	B70	B/10	: Spindle unit LH	F4	B217	W/6	: Reclining motor LH
D3	B71	Y/2	: Rear side air bag satellite sensor LH	G2	B218	W/6	: Lifting motor LH (Front)
E4	B72	GR/6	: Fuel level sensor unit and fuel pump (Main)	F4	B219	Y/2	: To B80
B5	B73	GR/4	: Subwoofer	E2	B220	W/12	: To B74
D2	B74	W/12	: To B220	G3	B223	W/6	: To B99
D5	B75	GR/16	: To B145	Body No.3 sub-harness			
D4	B76	GR/2	: Inside key antenna (Luggage room)	A2	B460	GR/4	: Rear combination lamp LH
E4	B78	W/4	: Mood lamp (Rear console LH)	B4	B462	W/4	: To B91
C3	B79	W/3	: 2nd row seat heater LH	B3	B463	W/8	: To B92
E3	B80	Y/2	: To B219	A3	B465	B/8	: Side radar LH



AAMIA0432ZZ

D4	B100	GR/2	: Fuel level sensor unit	C4	B156	W/6	: To B318
B1	B101	W/32	:To M84	C4	B157	W/12	: To B300
D2	B108	W/4	: Front door switch RH	C1	B161	W/16	: To M157
C1	B111	BR/16	: To M10	F2	B162	B/10	: Spindle unit RH
E3	B112	O/2	: Front RH seat belt pre-tensioner	E3	B170	Y/2	: Rear side air bag satellite sensor RH

B3	B113	Y/16	: Air bag diagnosis sensor unit	Front seat RH harness			
E3	B114	Y/2	: Front side air bag satellite sensor RH	C3	B300	W/12	: To B157
F2	B116	W/4	: Rear door switch RH	D2	B303	Y/12	: Right side air bag module
E2	B117	—	: Body ground	D4	B304	B/6	: Climate controlled seat control unit (Passenger seat)
G3	B118	B/2	: Rear cargo power socket	C4	B305	B/8	: Climate controlled seat control unit (Passenger seat)
F3	B120	BR/14	: BOSE speaker amp.	C4	B307	W/2	: To B155
F4	B121	BR/23	: BOSE speaker amp.	D2	B314	W/3	: Front seat heater RH
C2	B123	W/4	: To B350	B3	B315	W/2	: Seat heater (Cushion) RH
E2	B127	Y/2	: Front RH seat belt pre-tensioner	C4	B318	W/6	: To B156
E1	B128	Y/2	: RH side curtain air bag module	C2	B331	W/4	: Seat belt buckle switch passenger seat
E5	B131	B/12	: To C13	ODS sub-harness			
D4	B132	—	: Body ground	C1	B350	W/4	: To B123
F4	B135	W/16	: Awd control unit	C2	B351	B/3	: Occupant classification system sensor FI
B1	B136	W/40	: To M36	C2	B352	B/3	: Occupant classification system sensor RI
F3	B138	W/4	: Rear power return switch RH	C2	B356	B/20	: Occupant classification system control unit
E2	B139	W/12	: To D301	Body No.3 sub-harness			
E5	B140	W/16	: To B49	G3	B459	GR/4	: Rear combination lamp RH
F4	B141	W/4	: To B461	F4	B461	W/4	: To B141
F4	B142	W/8	: To B464	F4	B464	W/8	: To B142
E4	B145	GR/16	: To B75	G3	B466	B/8	: Side radar RH
D2	B155	W/2	: To B307				

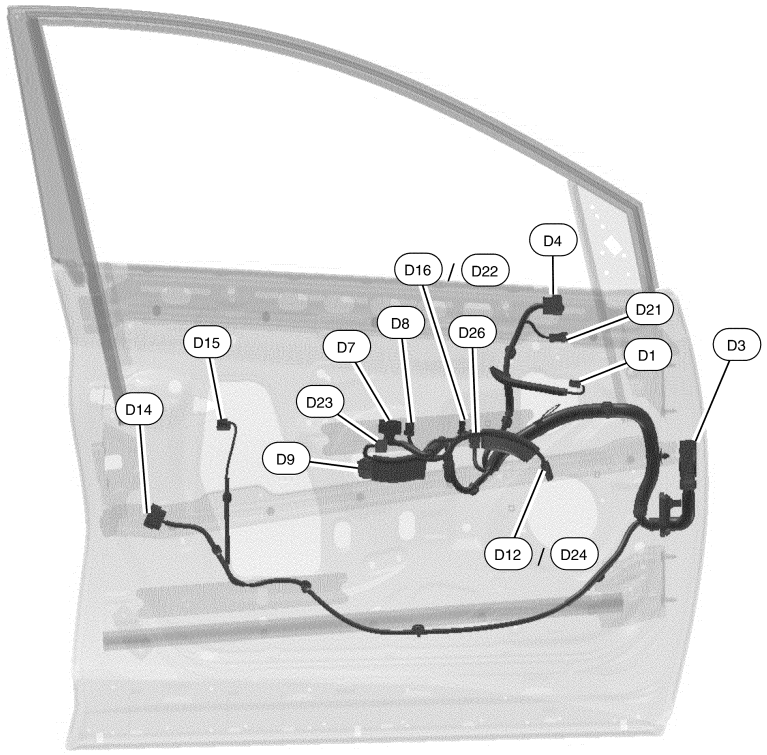


AAMIA0433ZZ

B5	R1	W/32	: To M1	B3	R9	W/12	: Moonroof switch
C5	R3	W/6	: To M138	A2	R10	W/2	: Vanity lamp RH
C3	R4	GR/10	: Moonroof motor assembly	B2	R11	GR/10	: To R12
C3	R5	GR/10	: Sunshade motor assembly	C2	R12	GR/10	: To R10
B3	R6	W/8	: Front room/map lamp assembly	C3	R14	W/2	: Vanity lamp LH

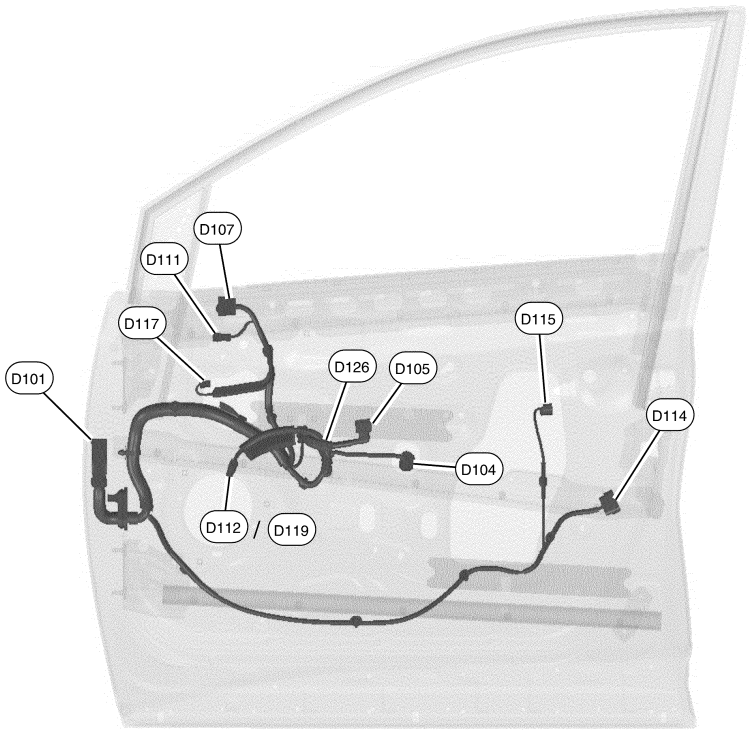
B4	R7	B/10	: Auto anti-dazzling inside mirror	E3	R16	W/4	: Personal lamp second row LH
B3	R8	W/6	: Microphone	C1	R17	W/4	: Personal lamp second row RH

FRONT DOOR LH HARNESS



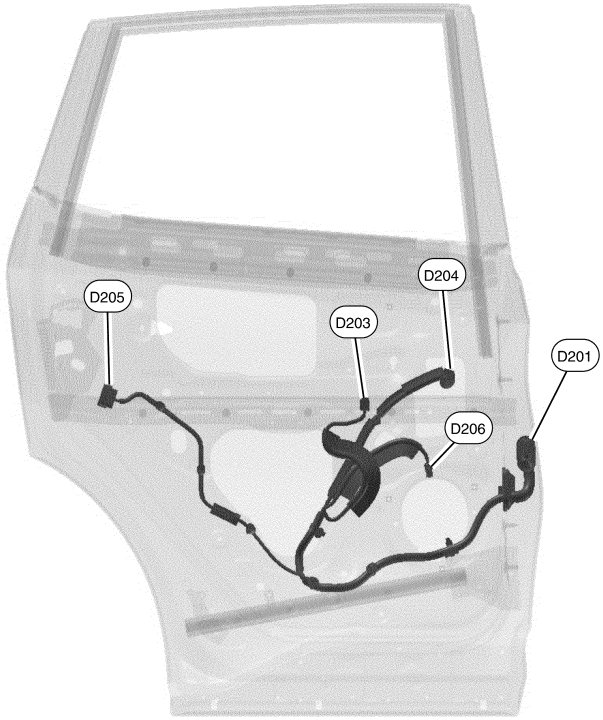
AAMIA0434ZZ

D1	W/4	: Mood lamp (Front door armrest LH)	D15	B/4	: Front outside handle assembly LH
D3	W/55	: To M168	D16	B/16	: Door mirror remote control switch (Without automatic drive positioner)
D4	W/24	: Door mirror LH	D21	W/4	: Blind spot warning/blind spot intervention indicator LH
D7	W/16	: Main power window and door lock/unlock switch	D22	GR/16	: Door mirror remote control switch (With automatic drive positioner)
D8	W/3	: Main power window and door lock/unlock switch	D23	W/16	: Seat memory switch
D9	G/6	: Front power window motor LH	D24	BR/2	: Front door speaker LH (With BOSE audio system)
D12	W/2	: Front door speaker LH (Without BOSE audio system)	D26	Y/2	: Front door satellite sensor LH
D14	GR/6	: Front door lock assembly LH			



AAMIA0435ZZ

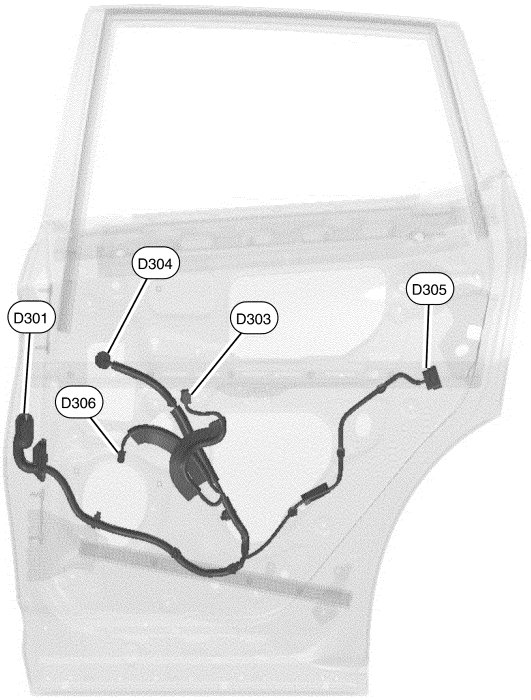
D101	W/40	: To M91	D114	GR/6	: Front door lock actuator RH
D104	G/6	: Front power window motor RH	D115	B/4	: Front outside handle assembly RH
D105	W/12	: Power window and door lock/unlock switch RH	D117	W/4	: Mood lamp (Front door armrest RH)
D107	W/24	: Door mirror RH	D119	BR/2	: Front door speaker RH (With BOSE audio system)
D111	W/4	: Blind spot warning/blind spot intervention indicator RH	D126	Y/2	: Front door satellite sensor RH
D112	W/2	: Front door speaker RH (Without BOSE audio system)			



AAMIA0436ZZ

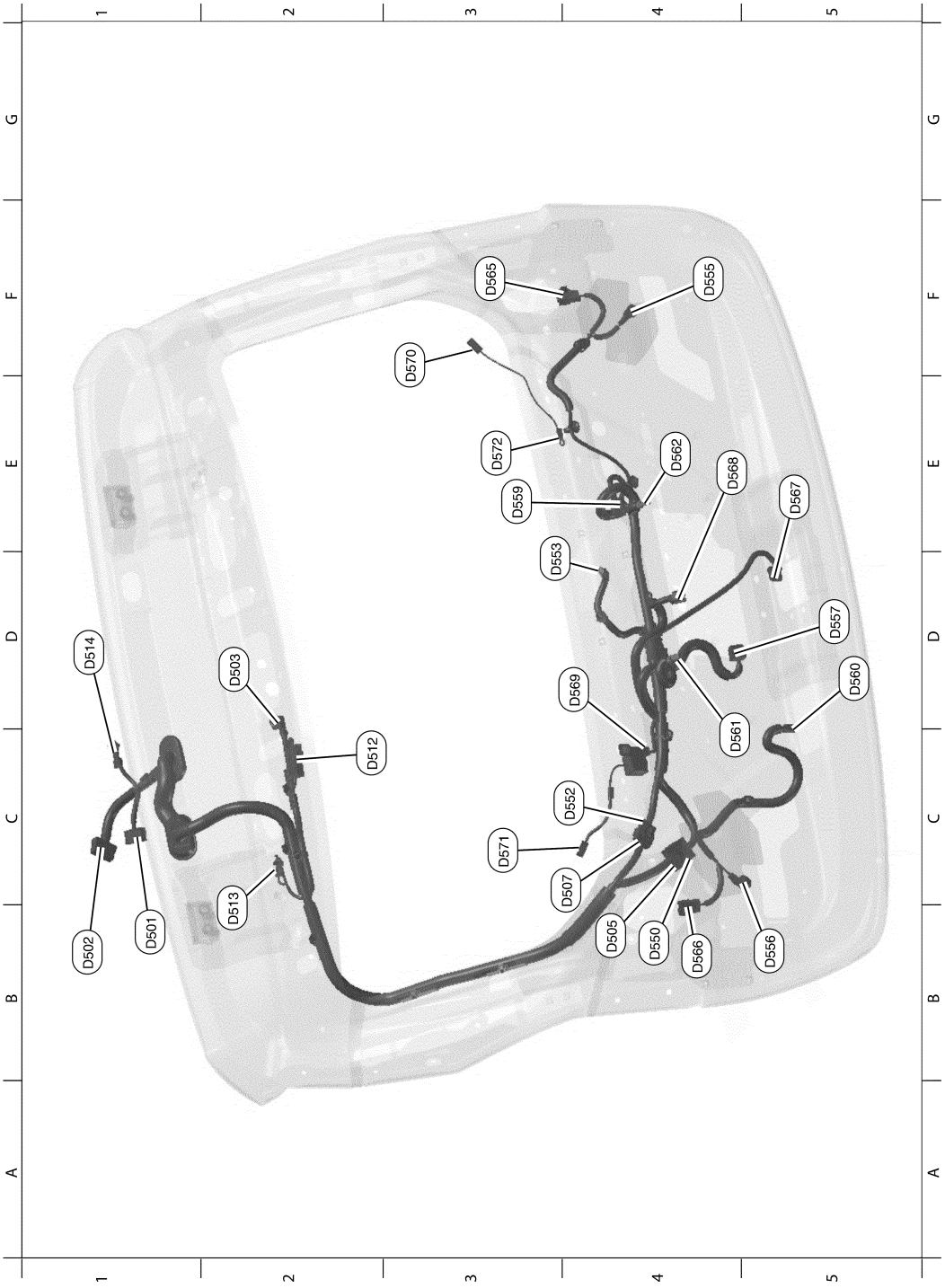
D201	W/12	: To B51	D205	GR/6	: Rear door lock actuator LH
D203	W/8	: Rear power window switch LH	D206	W/2	: Rear door speaker LH
D204	G/6	: Rear power window motor LH			

REAR DOOR RH HARNESS



AAMIA0437ZZ

D301	W/12	: To B139	D305	GR/6	: Rear door lock actuator RH
D303	W/8	: Rear power window switch RH	D306	W/2	: Rear door speaker RH
D304	G/6	: Rear power window motor RH			



AAMIA0438ZZ

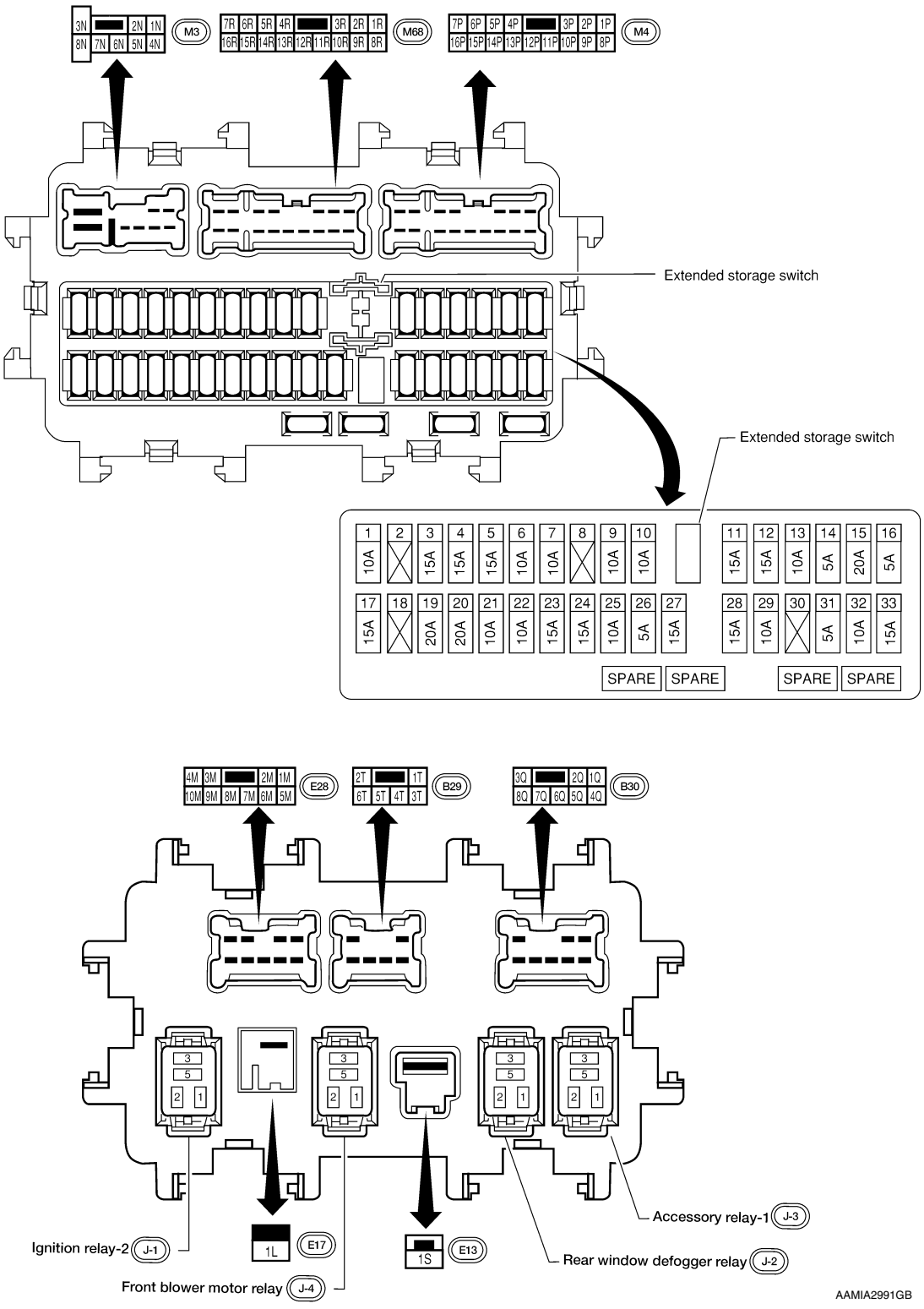
B1	D501	W/32	: To B46	D5	D557	W/8	: Back door lock assembly
B1	D502	GR/8	: To B47	E3	D559	W/4	: Back door opener switch
D2	D503	BR/2	: High-mounted stop lamp	D5	D560	G/8	: Automatic back door close switch
B4	D505	GR/8	: To D550	C4	D561	BR/2	: License plate lamp LH
C4	D507	W/24	: To D552	E4	D562	BR/2	: License plate lamp RH

C2	D512	GR/2	: Condenser-2	F3	D565	W/4	: Rear combination lamp RH
B2	D513	—	: Body ground	B4	D566	W/4	: Rear combination lamp LH
D1	D514	—	: Body ground	E5	D567	W/4	: Back door lock assembly
B4	D550	GR/8	: To D505	E4	D568	B/6	: Rear view camera
C4	D552	W/24	: To D507	D4	D569	GR/1	: Rear window defogger condenser
D3	D553	W/3	: Rear wiper motor	F3	D570	B/1	: Rear window defogger
F4	D555	GR/2	: Touch sensor RH	C3	D571	B/1	: Rear window defogger
B5	D556	W/2	: Touch sensor LH	E3	D572	—	: Body ground

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

INFOID:0000000012875217

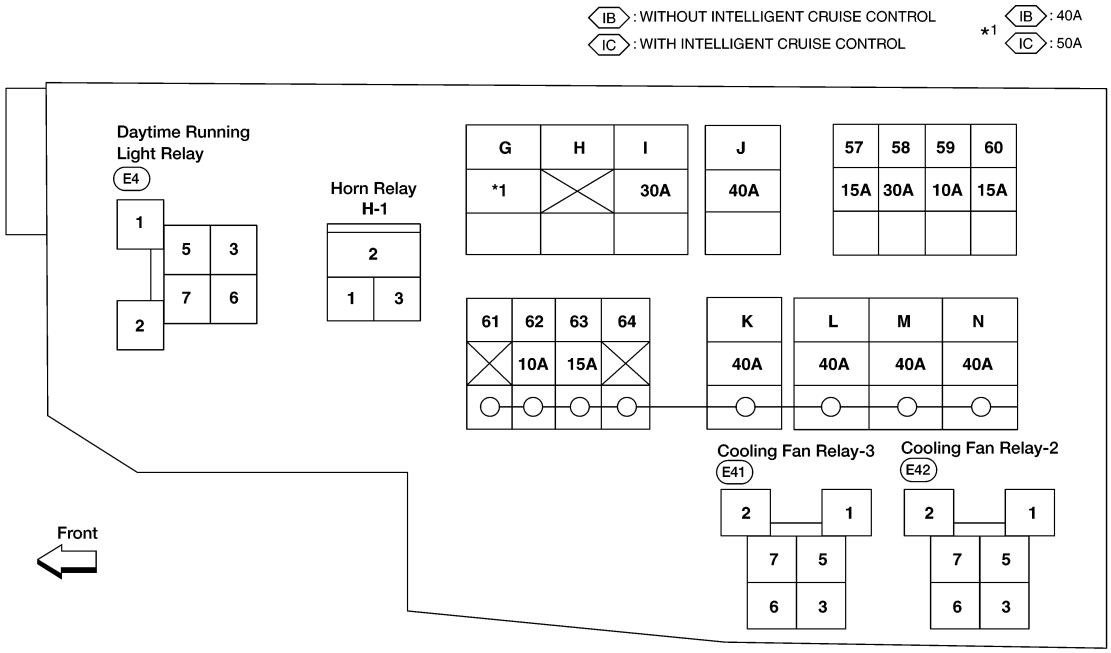


FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

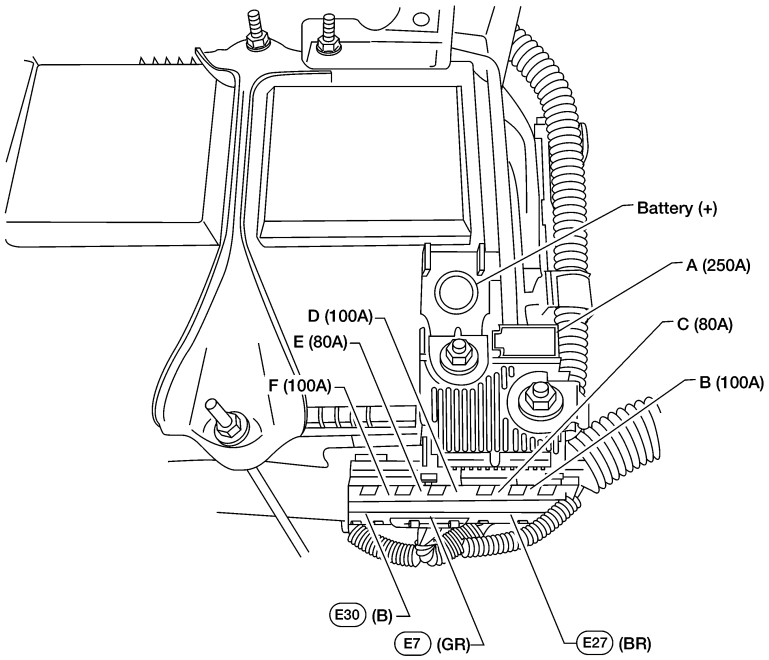
INFOID:0000000012875218

FUSE AND FUSIBLE LINK AND RELAY BOX

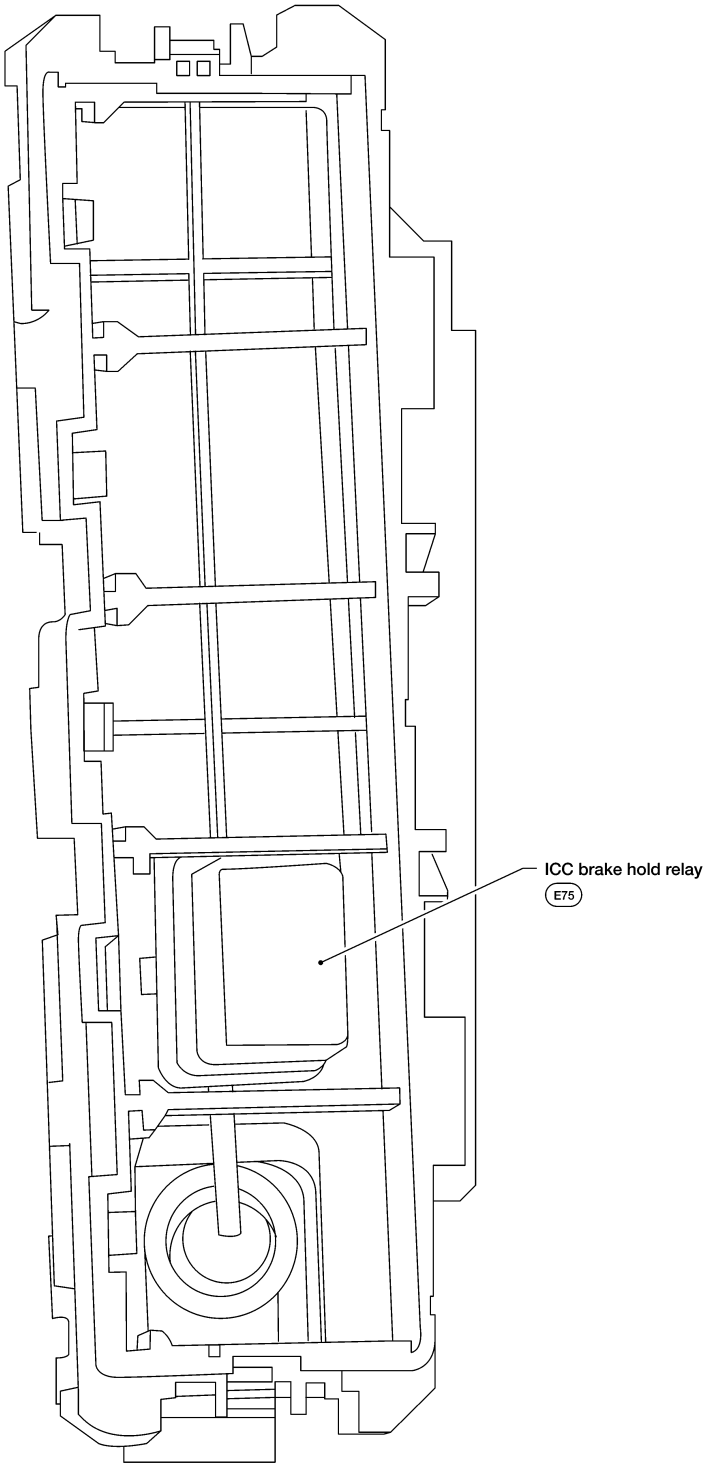


NO. 57 - 64 : FUSE G - N : FUSIBLE LINK

FUSIBLE LINK BOX (BATTERY)



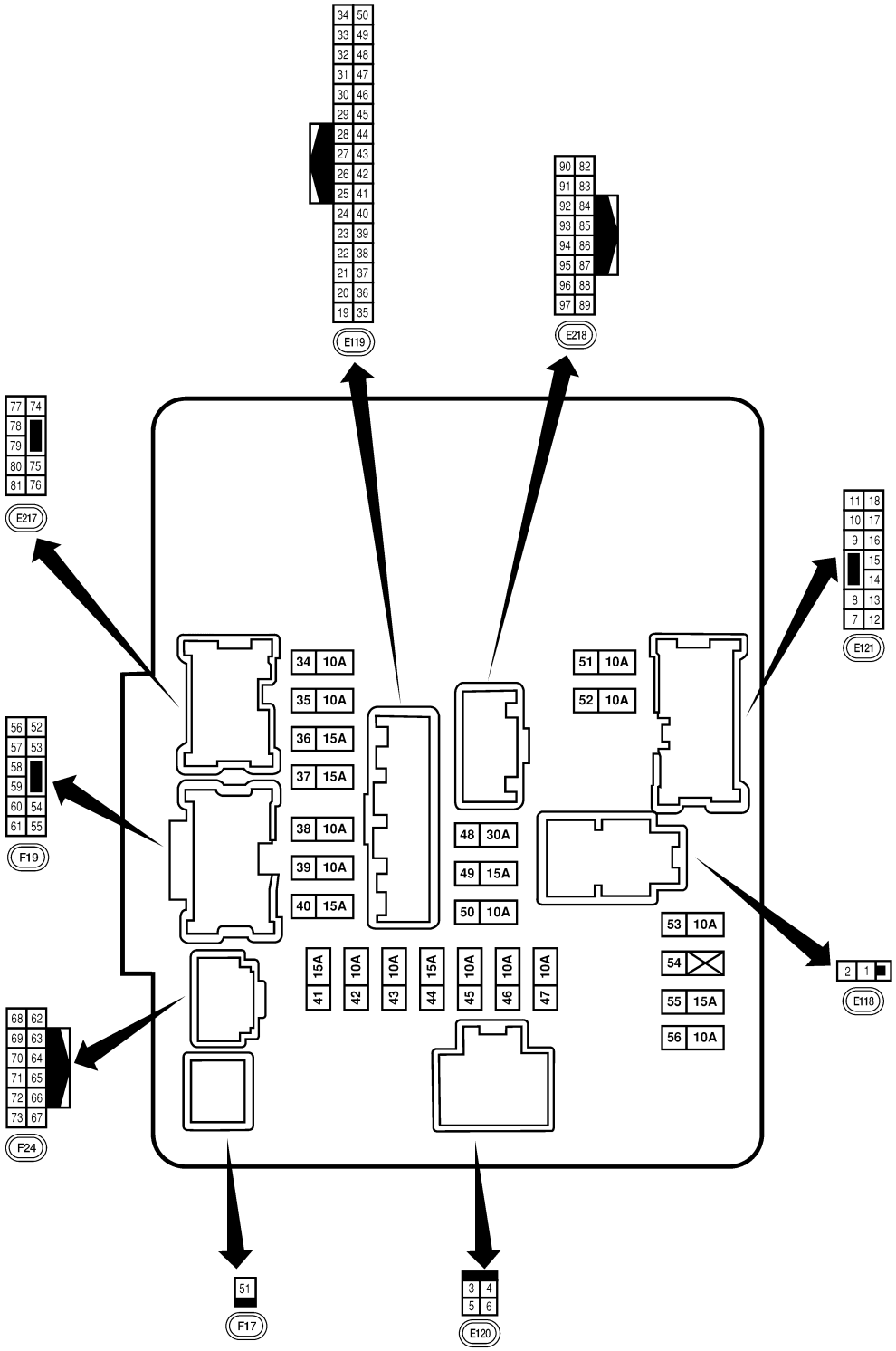
AAMIA2992GB


ICC brake hold relay
E75
AAMIA2993GB

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

IPDM E/R Terminal Arrangement

INFOID:0000000012875219



AAMIA0424ZZ

BASIC INSPECTION

BATTERY

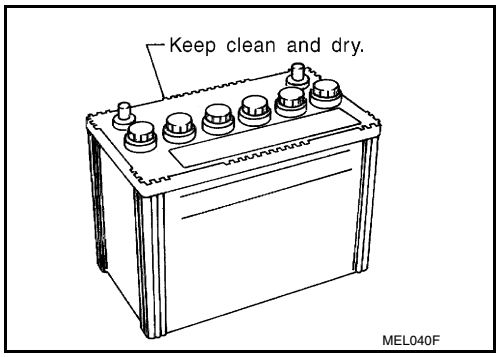
How to Handle Battery

INFOID:0000000012875220

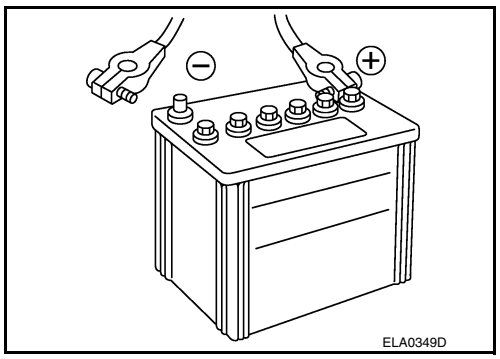
CAUTION:
- **If it becomes necessary to start the engine with a booster battery and jumper cables, use a 12-volt booster battery.**
- **After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.**
- **Never add distilled water through the hole used to 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:0000000012875221

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

To diagnose and confirm the condition of the battery, use the following special service tools:
- EXP-800 NI Battery and electrical diagnostic analyzer
- GR8-1200 NI Multitasking battery and electrical diagnostic station

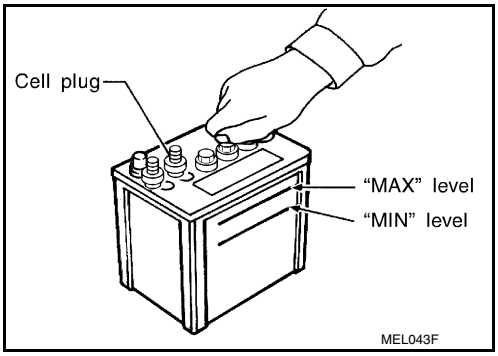
NOTE:
Refer to the applicable Instruction Manual for proper battery diagnosis procedures.

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

Checking Electrolyte Level

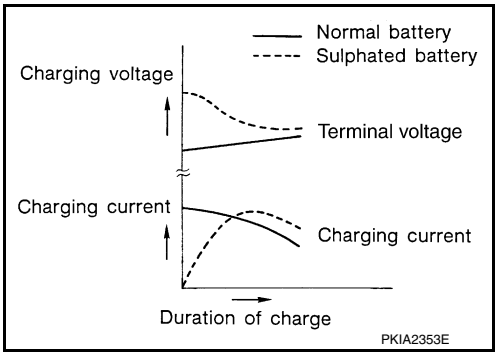
WARNING:
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical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

- 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.**



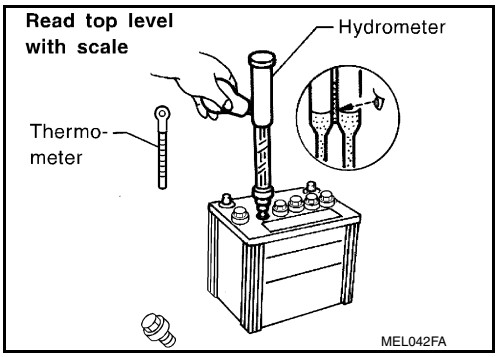
Specific Gravity Check

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:0000000012875222

Required Procedure After Battery Disconnection

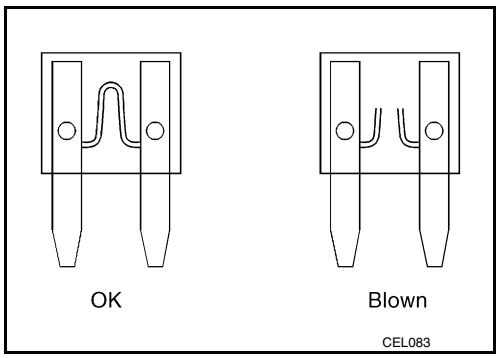
System	Item	Reference
Engine Control System	Idle Air Volume Learning	EC-154
Door & Lock	Automatic Back Door Initialization	DLK-107
Power Window Control System	Power Window System Initialization	PWC-30
Roof	Moonroof Memory Reset/Initialization Sunshade Memory Reset/Initialization	RF-23
Automatic Drive Positioner	Automatic Drive Positioner System Initialization	Refer to Owner's Manual.
Heater & Air Conditioning Control System	Temperature Setting Trimmer (front)	HAC-43
	Foot Position Setting Trimmer	HAC-43
	Inlet Port Memory Function (FRE)	HAC-44
	Inlet Port Memory Function (REC)	HAC-44
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:0000000012875223

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

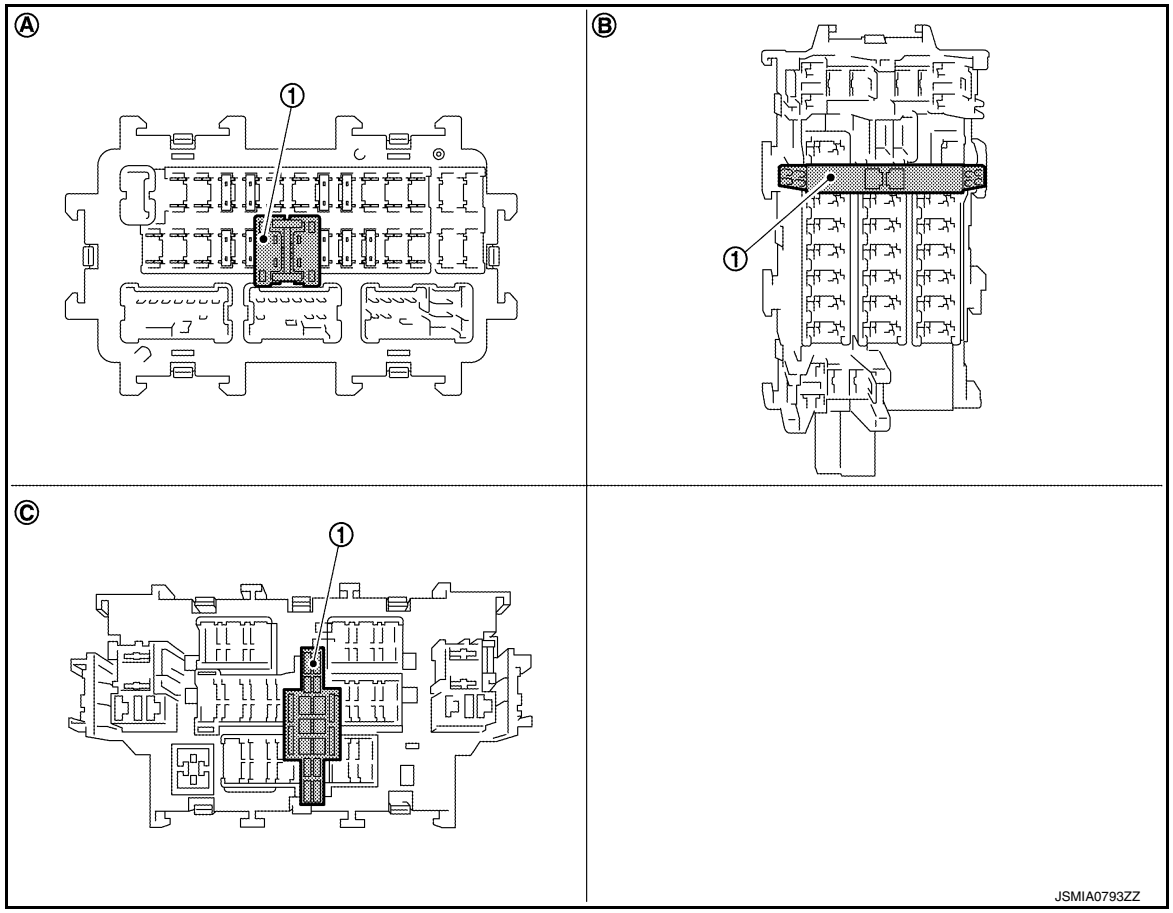


EXTENDED STORAGE SWITCH (IF EQUIPPED)

NOTE:

- When extended storage switch is pulled out, a message may be shown in the meter or display. To turn message/display off, push extended storage switch in.
- The following information is related to extended storage switch (shipping mode). For information related to BCM transit mode, refer to BCS-6, "BODY CONTROL SYSTEM : System Description".

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



① Extended storage switch

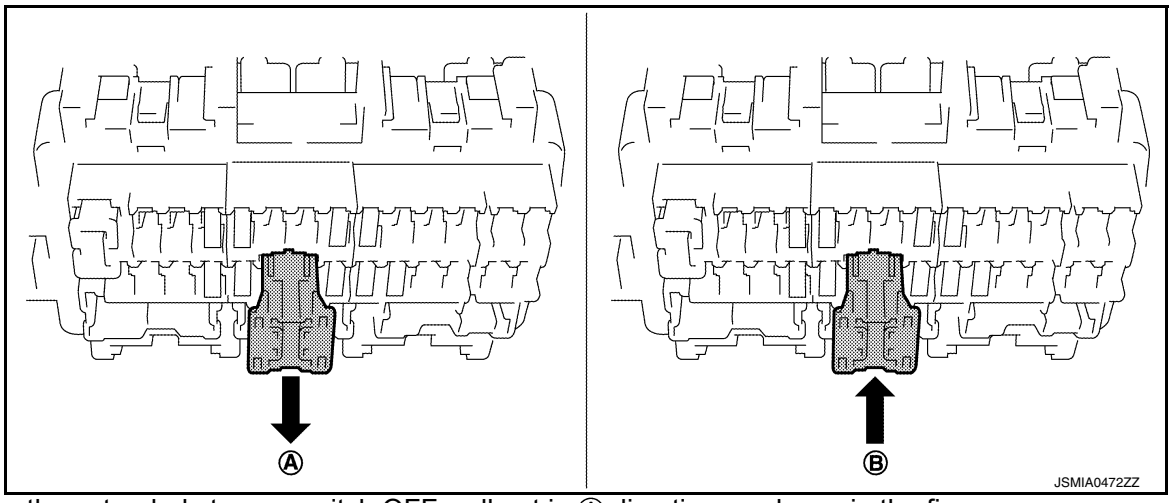
Ⓐ Type A Ⓑ Type B Ⓒ Type C

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

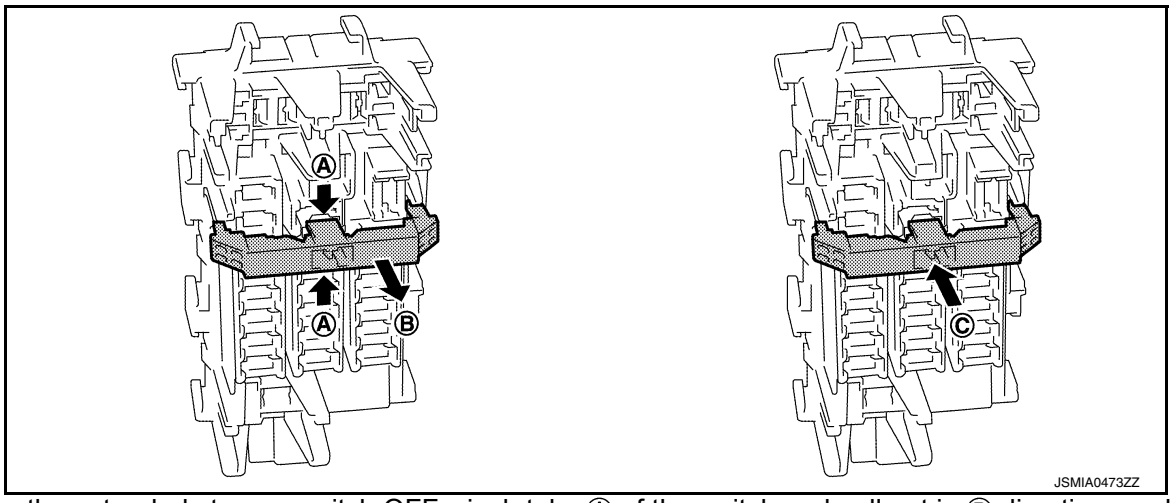
How/When to turn Extended Storage Switch ON/OFF

CAUTION:

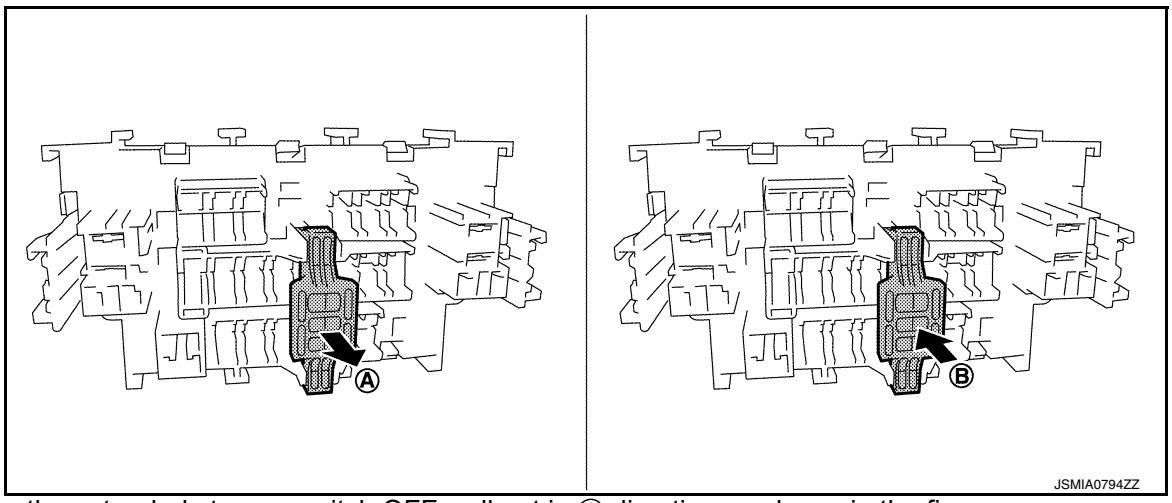
- **Turn the ignition switch OFF when operating the extended storage switch.**
- **Under normal conditions, keep the extended storage switch in ON state. Never operate the extended storage switch except when necessary.**
- Type A



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



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

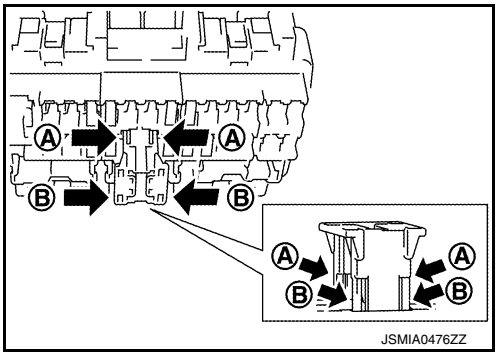


- To turn the extended storage switch OFF, pull out in Ⓐ direction as shown in the figure.
- To turn the extended storage switch ON, press in Ⓑ direction as shown in the figure.

How To Remove Extended Storage Switch

Type A

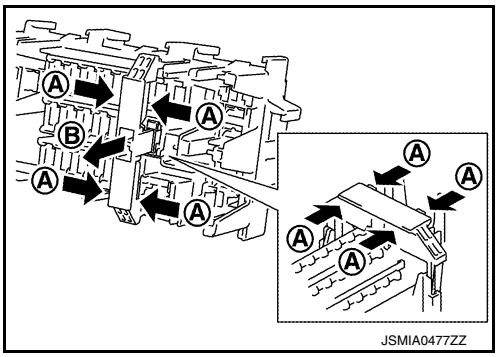
1. Turn the ignition switch OFF.
2. Turn the extended storage switch OFF.
3. Pinch tabs Ⓐ and tilt to disengage the extended storage switch. Pinch tabs Ⓑ to remove the extended storage switch.



CAUTION:
For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.
NOTE:
- Extended storage switch and fuse (or bus bar) are removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

Type B

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

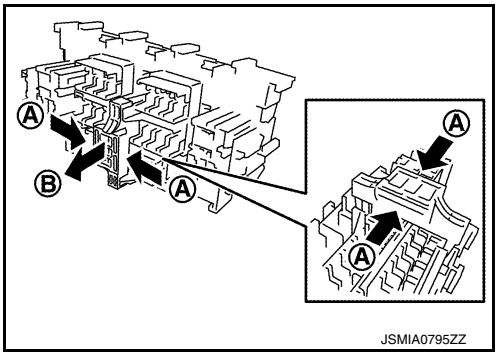


CAUTION:
For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.
NOTE:
- Extended storage switch and fuse (or bus bar) may be removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

Type C

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

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



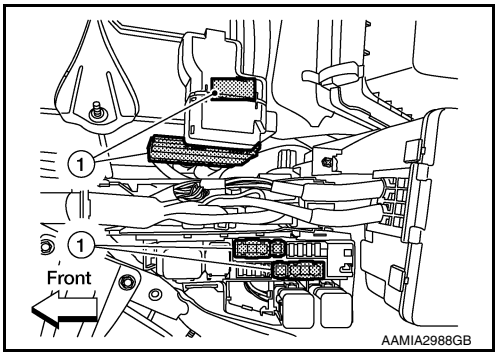
CAUTION:
For bus bar type extended storage switch, never replace bus bar with a fuse, or fuse may continually open.
NOTE:
- Extended storage switch and fuse (or bus bar) are removed together. Remove fuse (or bus bar) from extended storage switch, if necessary.
- Install removed fuse (or bus bar) to fuse block.
- Extended storage switch is for transportation and storage. Reinstallation of switch is not required after removal, but fuse (or bus bar) must be reinstalled/pushed back in to activate all electrical systems and turn message off (which may be shown in meter/display).

FUSIBLE LINK INSPECTION

Fusible Link

INFOID:0000000012875224

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:

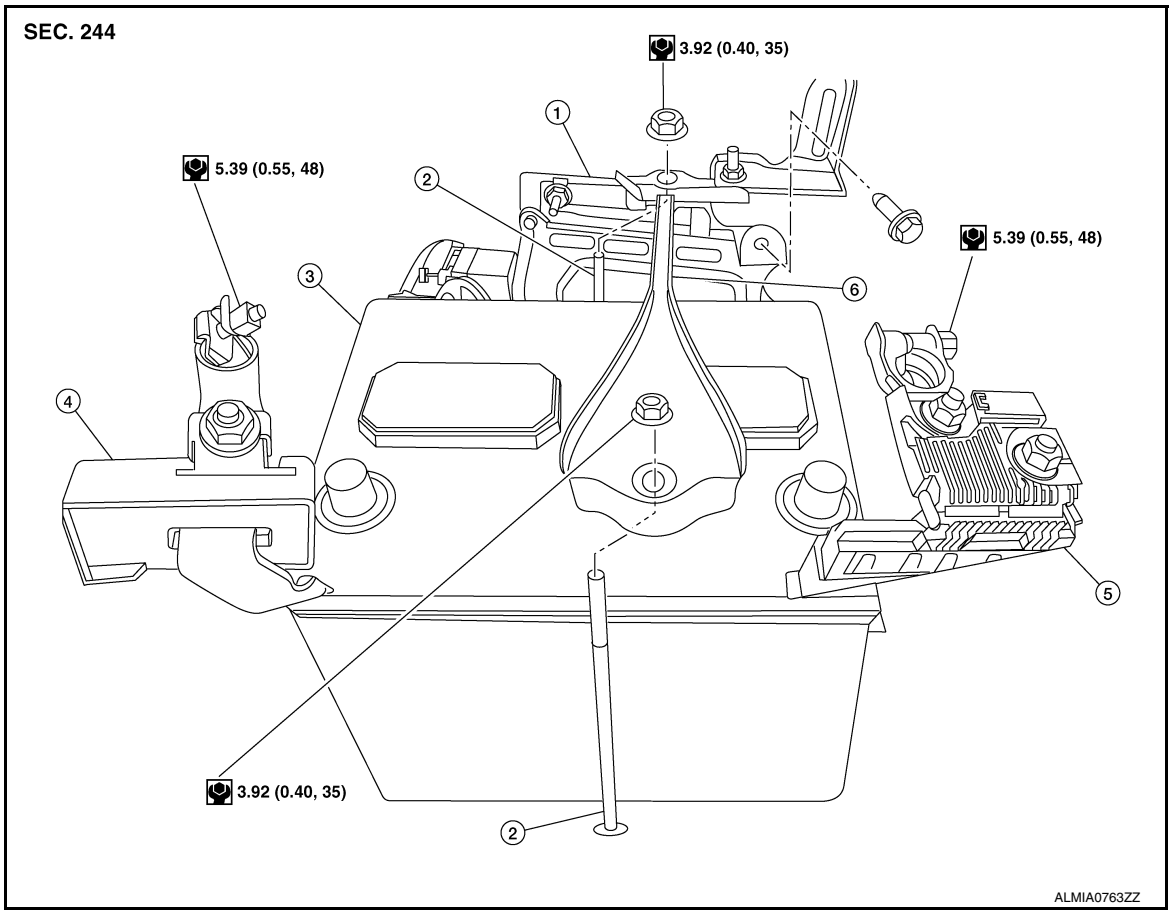
- **If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.**
- **Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any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

REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:0000000012875225



1.	ECM	2.	Battery rods	3.	Battery
4.	Current sensor	5.	Fusible link box (battery)	6.	Battery frame

Removal and Installation

INFOID:0000000012875226

REMOVAL

1. Disconnect the negative battery terminal.
   CAUTION:
   To prevent damage to the parts, disconnect the negative terminal from the battery negative post first.
2. Remove the cover of the battery positive terminal and disconnect the positive battery terminal.
3. Remove battery frame nuts, battery frame and battery rods.
4. Remove battery cover. Refer to PG-114, "Exploded View".
5. Remove battery.

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

- **To prevent damage to the parts, connect the positive terminal to the battery positive post first.**
- **After connecting the positive and negative terminals to securely supply battery voltage, ensure that the positive and negative terminals are tightly clamped to battery positive and negative posts for good contact.**

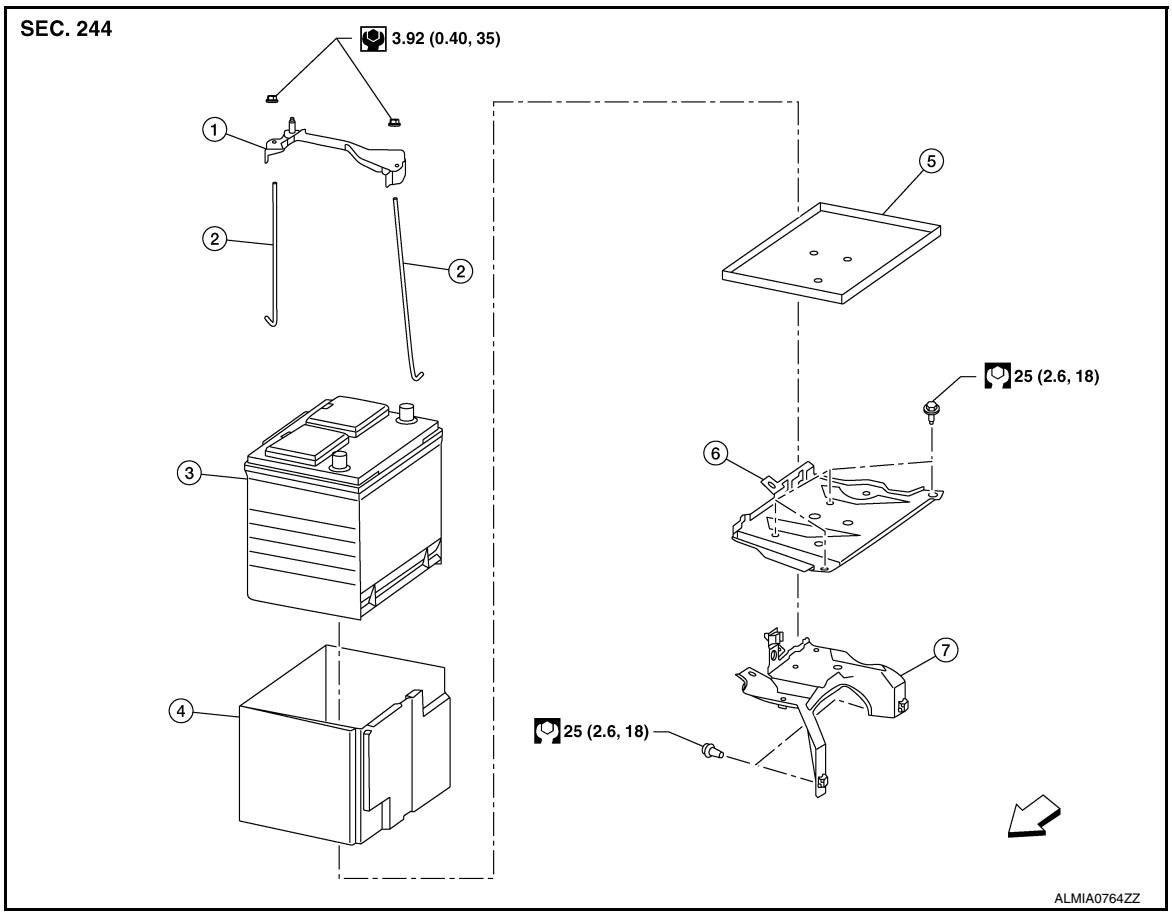
- **To securely supply battery voltage, check the positive and negative terminals for poor connection caused by corrosion.**

Reset electronic systems as necessary. Refer to PG-106, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

BATTERY TRAY

Exploded View

INFOID:0000000012875227



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

Removal and Installation

INFOID:0000000012875228

REMOVAL

1. Remove the battery. Refer to PG-112, "Removal and Installation".
2. Remove the air cleaner and air duct. Refer to EM-26, "Removal and Installation".
3. Disconnect the transmission control module (TCM). Refer to TM-201, "Exploded View".
4. Remove the ECM bracket.
5. Remove the battery tray bolts and battery tray.
6. Remove the battery tray support bolts and battery tray support.

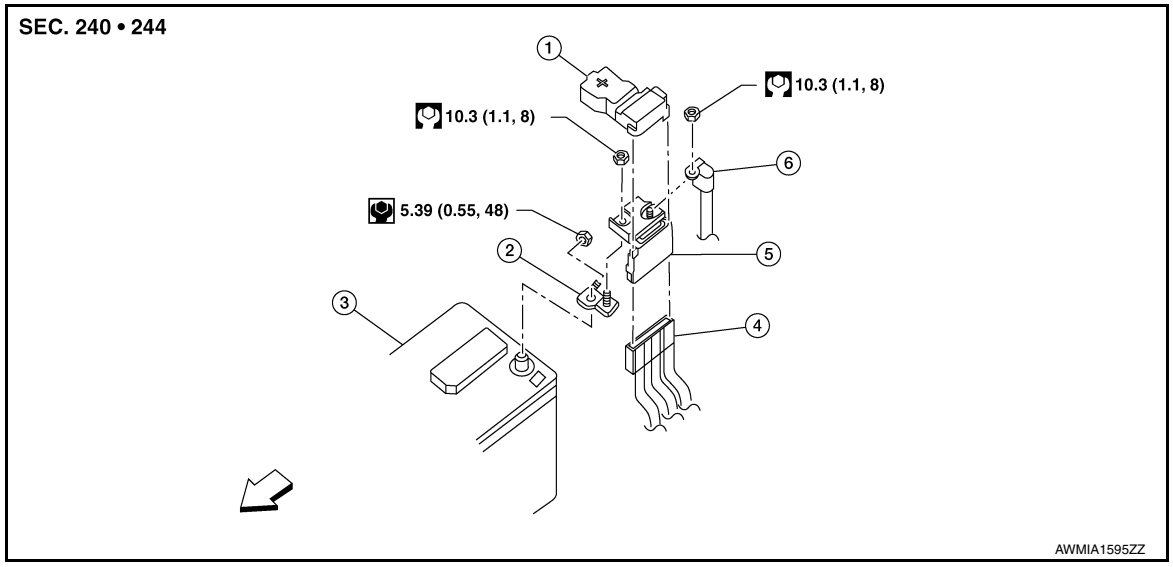
INSTALLATION

Installation is in the reverse order of removal.
Reset electronic systems as necessary. Refer to PG-106, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:0000000012875229



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

⇦ Front

Removal and Installation

INFOID:0000000012875230

REMOVAL

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

INSTALLATION

Installation is in the reverse order of removal.

CAUTION:

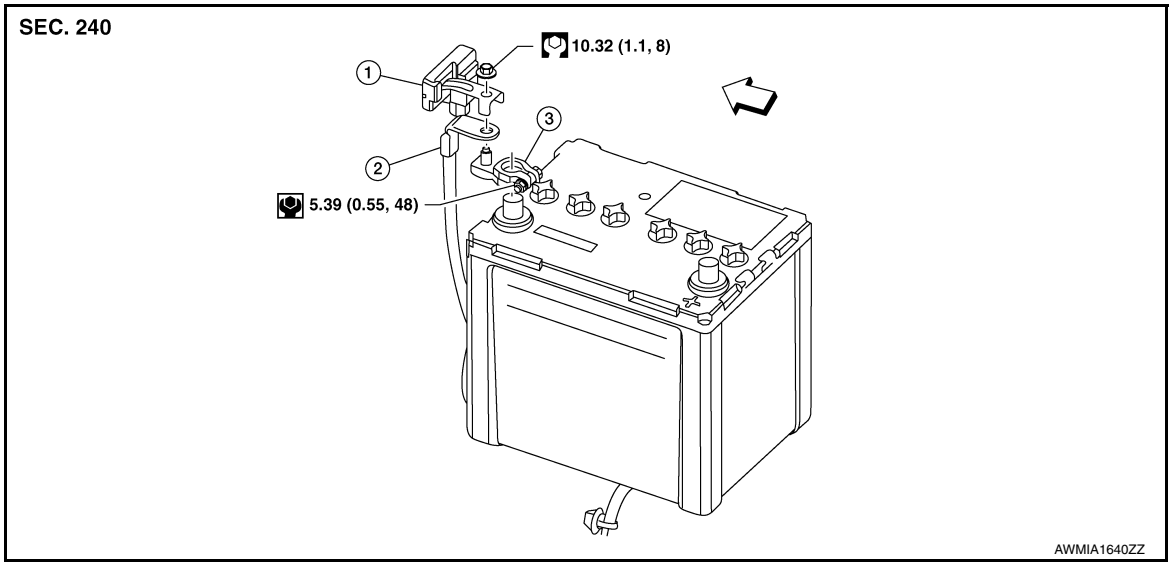
- **To prevent damage to the parts, connect the positive terminal to the battery positive post first.**
- **After connecting the positive and negative terminals to securely supply battery voltage, ensure that the positive and negative terminals are tightly clamped to battery positive and negative posts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

Reset electronic systems as necessary. Refer to PG-106, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

BATTERY CURRENT SENSOR

Exploded View

INFOID:0000000012875231



1. Current sensor
2. Negative cable
3. Negative terminal

⇦ : Front

Removal and Installation

INFOID:0000000012875232

REMOVAL

1. Disconnect negative terminal from the battery.
2. Disconnect harness connector from current sensor.
3. 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:

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

Reset electronic systems as necessary. Refer to PG-106, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Special Repair Requirement".

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:0000000012875233

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

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