SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000011461984

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. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the SR section.**
- **Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.**

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

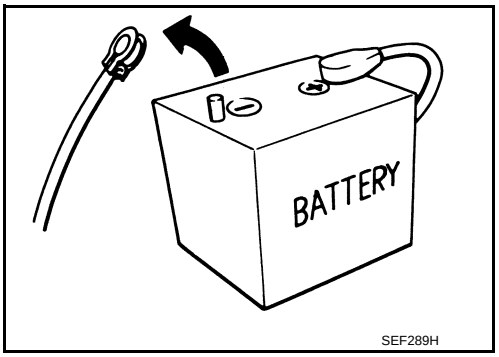
WARNING:

- **When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.**
- **When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.**

Precautions for Removing Battery Terminal

INFOID:0000000011461985

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
  NOTE:
  ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.
- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.
  NOTE:
  If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.



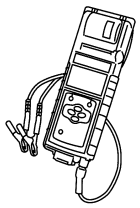
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
  NOTE:
  The removal of 12V battery may cause a DTC detection error.

PREPARATION

PREPARATION

Special Service Tools

INFOID:0000000011461986

Tool number (Techmate No.) Tool name		Description
— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station	 AWIIA1239ZZ	Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.
— (—) Model EXP-800 NI Battery and electrical diagnostic analyzer	 JSMIA0806ZZ	Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.

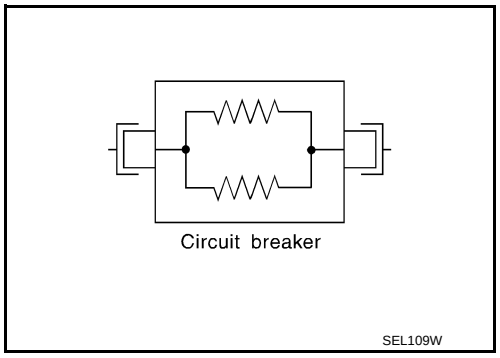
SYSTEM DESCRIPTION

COMPONENT PARTS

Circuit Breaker

INFOID:0000000011461987

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



Battery

INFOID:0000000011461988

Type		80D23L-HR*
20 hour rate capacity	[V – Ah]	12 – 62
Cold cranking current (For reference value)	[A]	570

HR*: Because of the frequent battery charge/discharge performed according to a driving condition and a battery condition, this model uses a charge/discharge capacity-enhanced battery. Therefore, it is recommended to use a genuine battery when replacement is needed.

Harness Connector

INFOID:0000000011461989

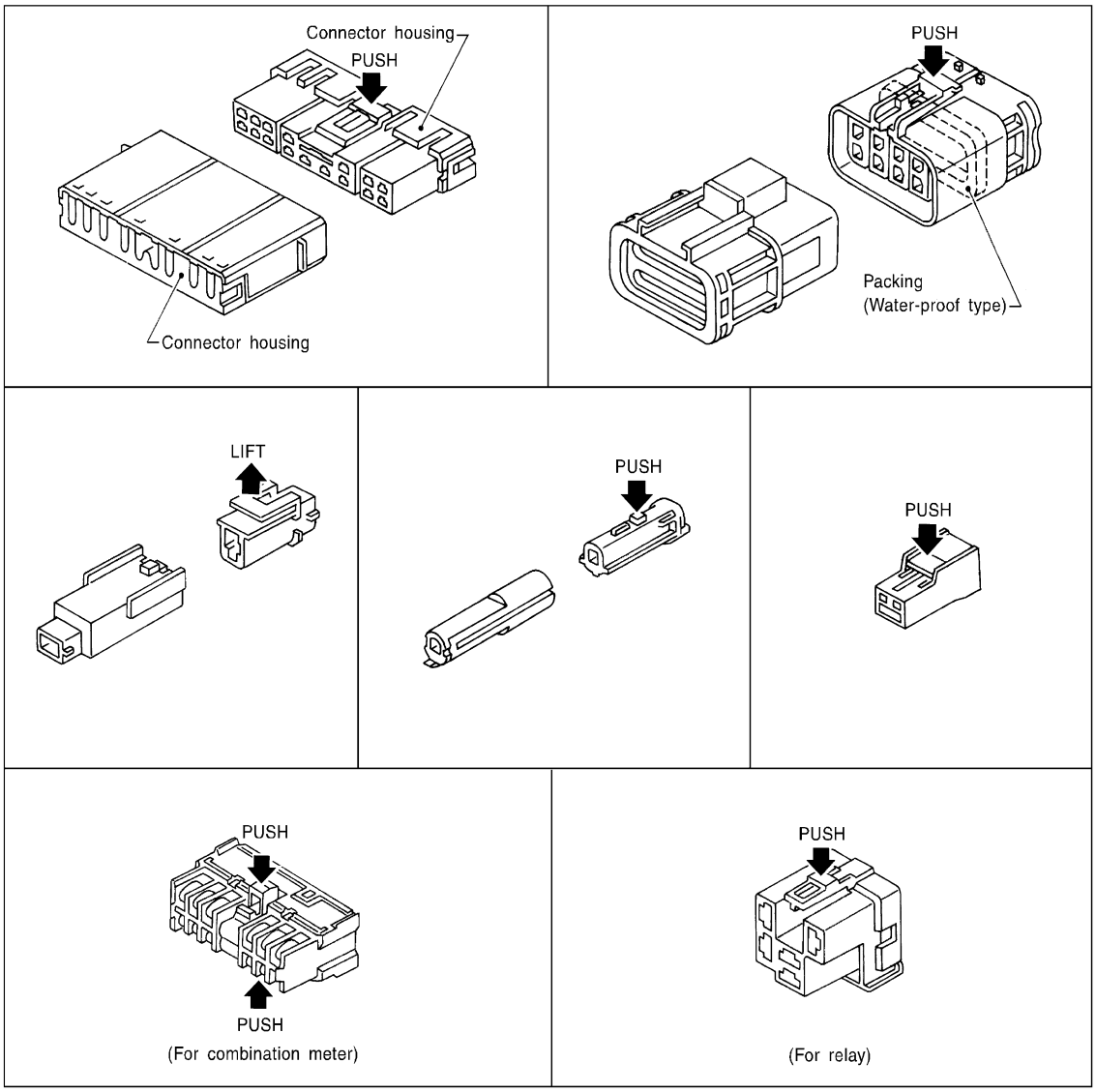
HARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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.

CAUTION:

Never pull the harness or wires when disconnecting the connector.

[Example]



SEL769DA

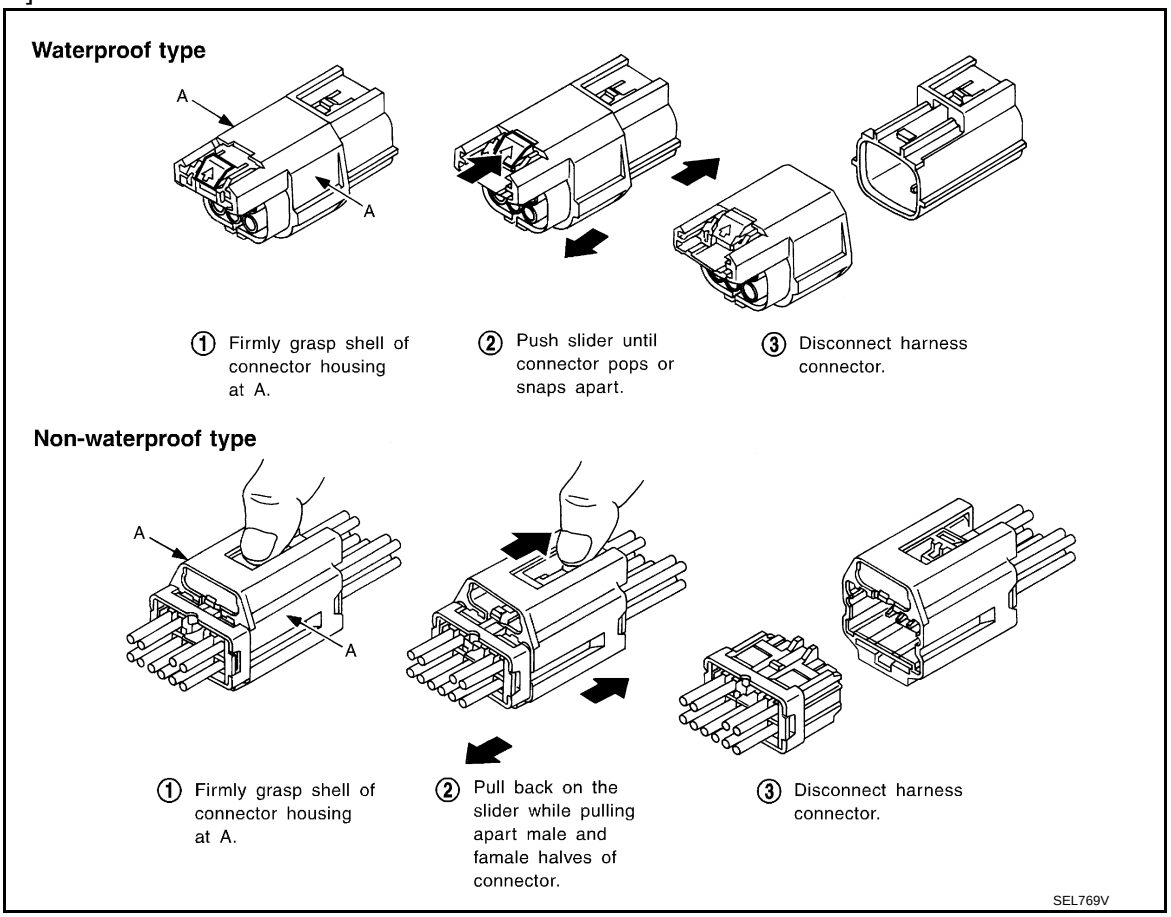
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the figure below.

CAUTION:

- **Never pull the harness or wires when disconnecting the connector.**
- **Be careful not to damage the connector support bracket when disconnecting the connector.**

[Example]

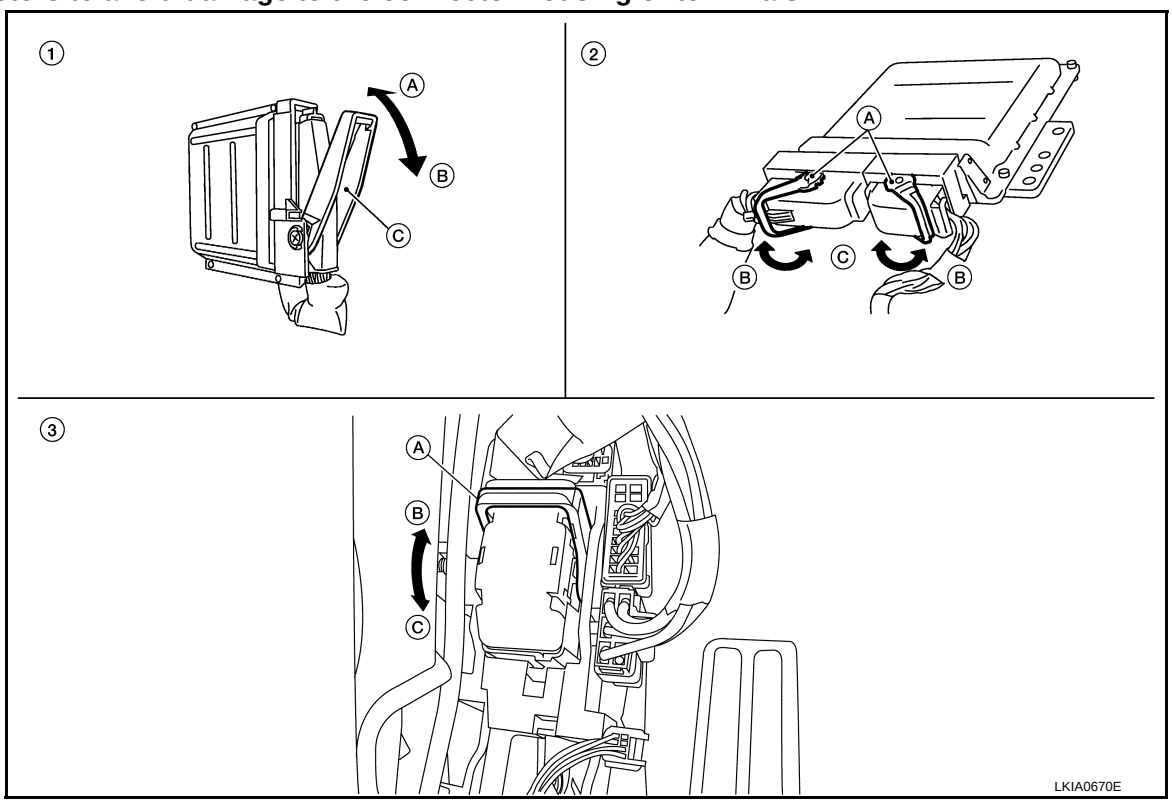


HARNESS CONNECTOR (LEVER LOCKING TYPE)

- 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.



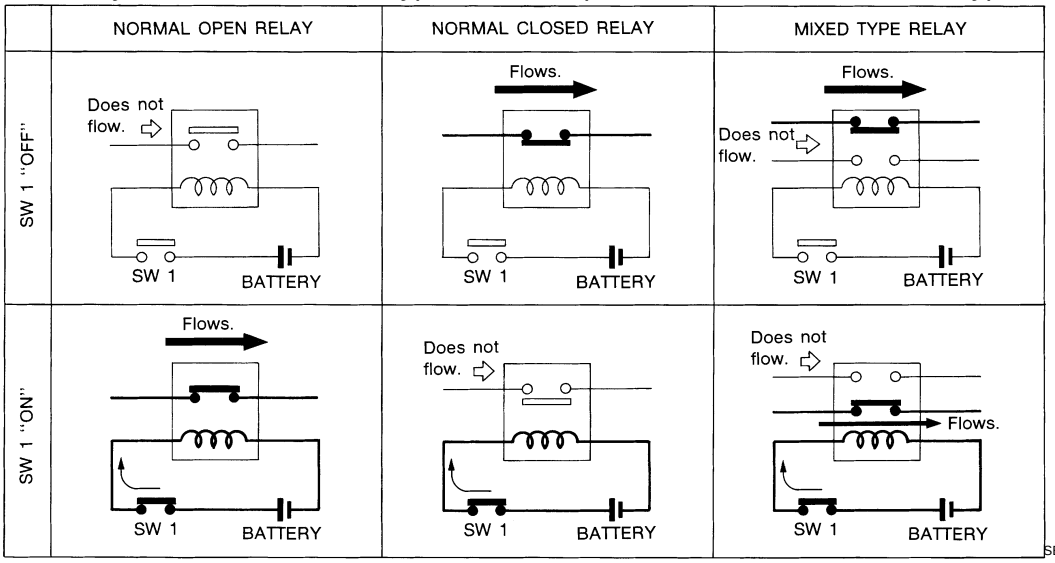
1. Control unit with single lever
   A. Fasten
   B. Loosen
   C. Lever
2. Control unit with dual levers
   A. Levers
   B. Fasten
   C. Loosen
3. SMJ connector
   A. Lever
   B. Fasten
   C. Loosen

Standardized Relay

INFOID:0000000011461990

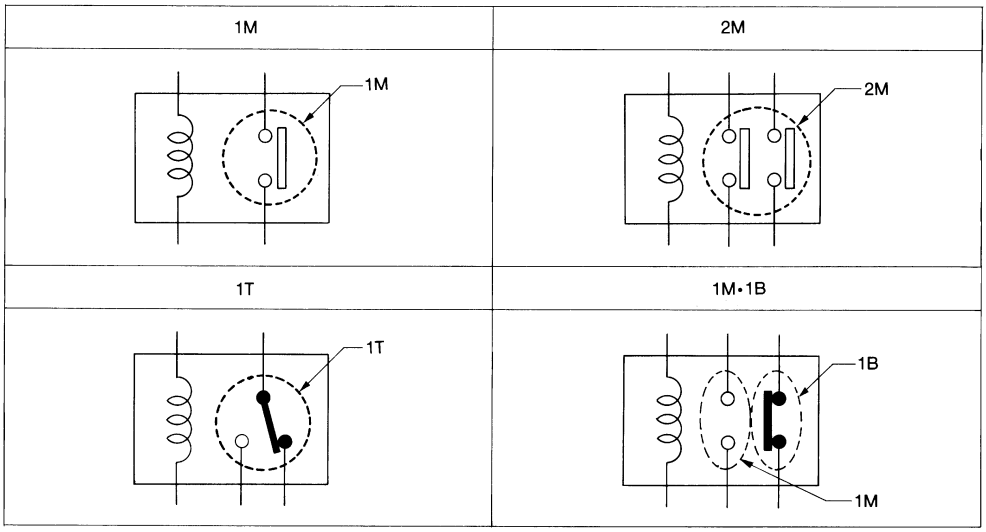
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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

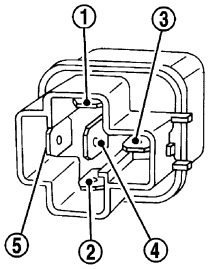
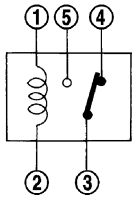
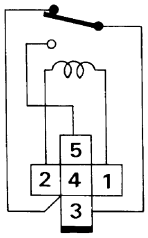
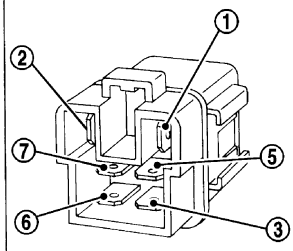
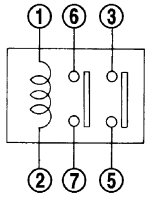
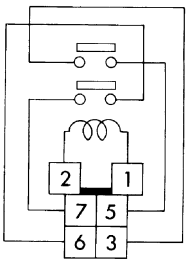
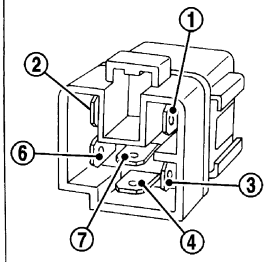
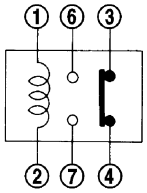
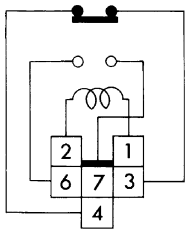
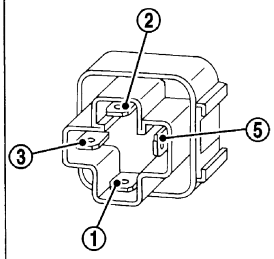
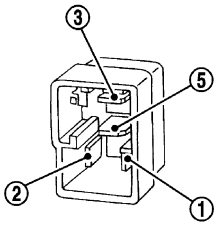
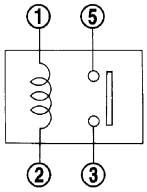
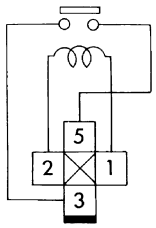
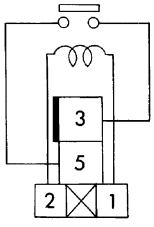


TYPE OF STANDARDIZED RELAYS

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



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.

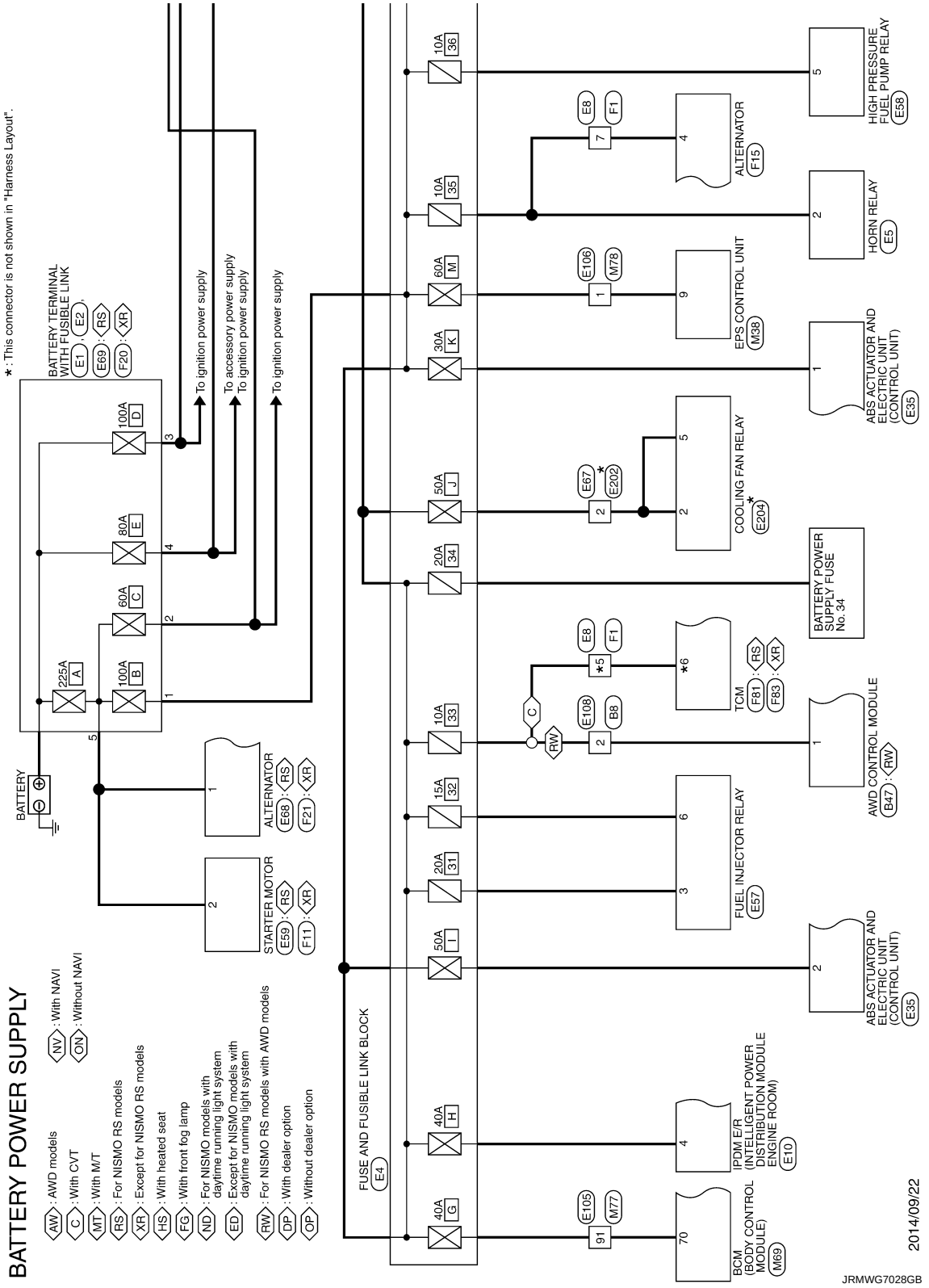
SEL188W

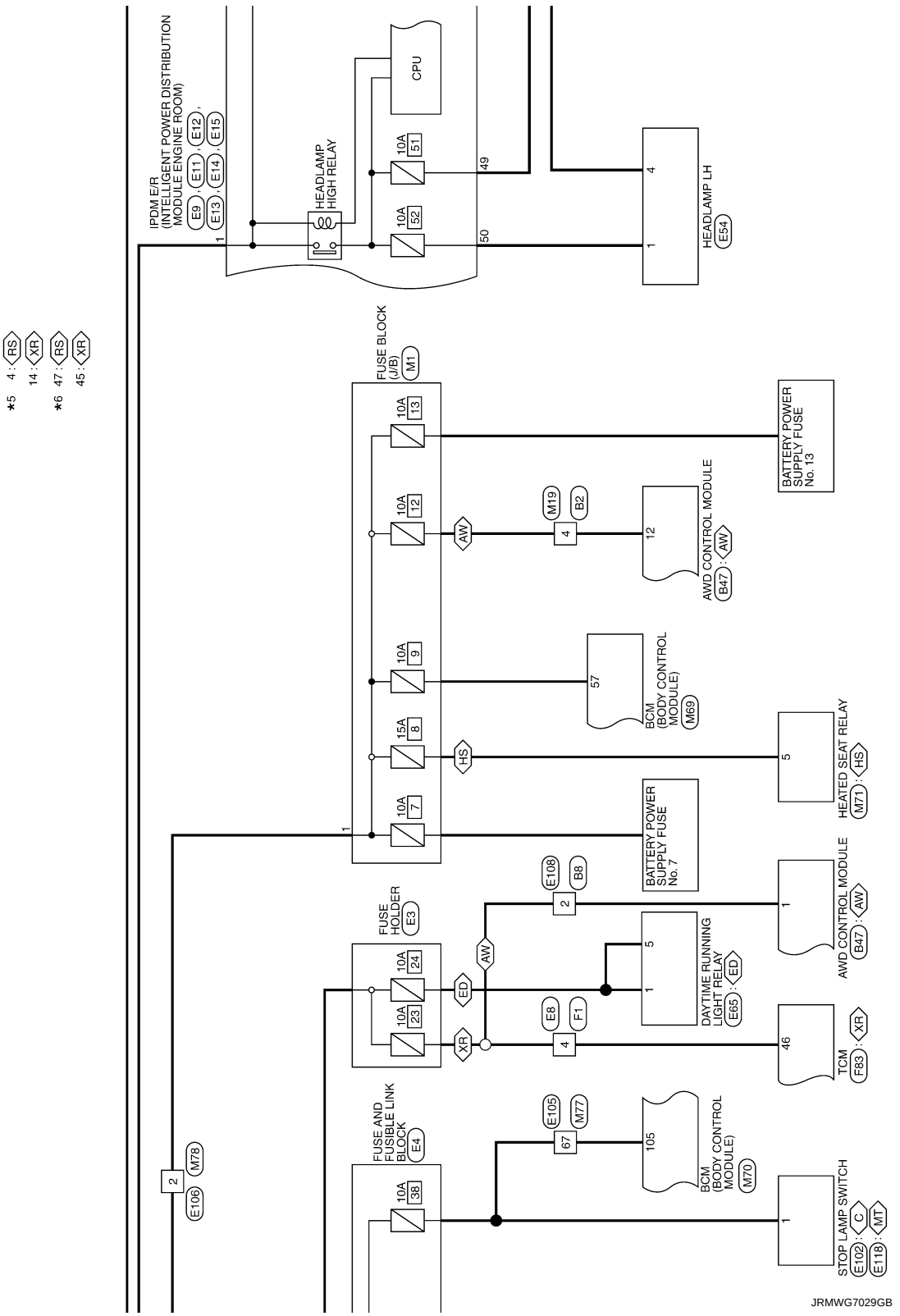
WIRING DIAGRAM

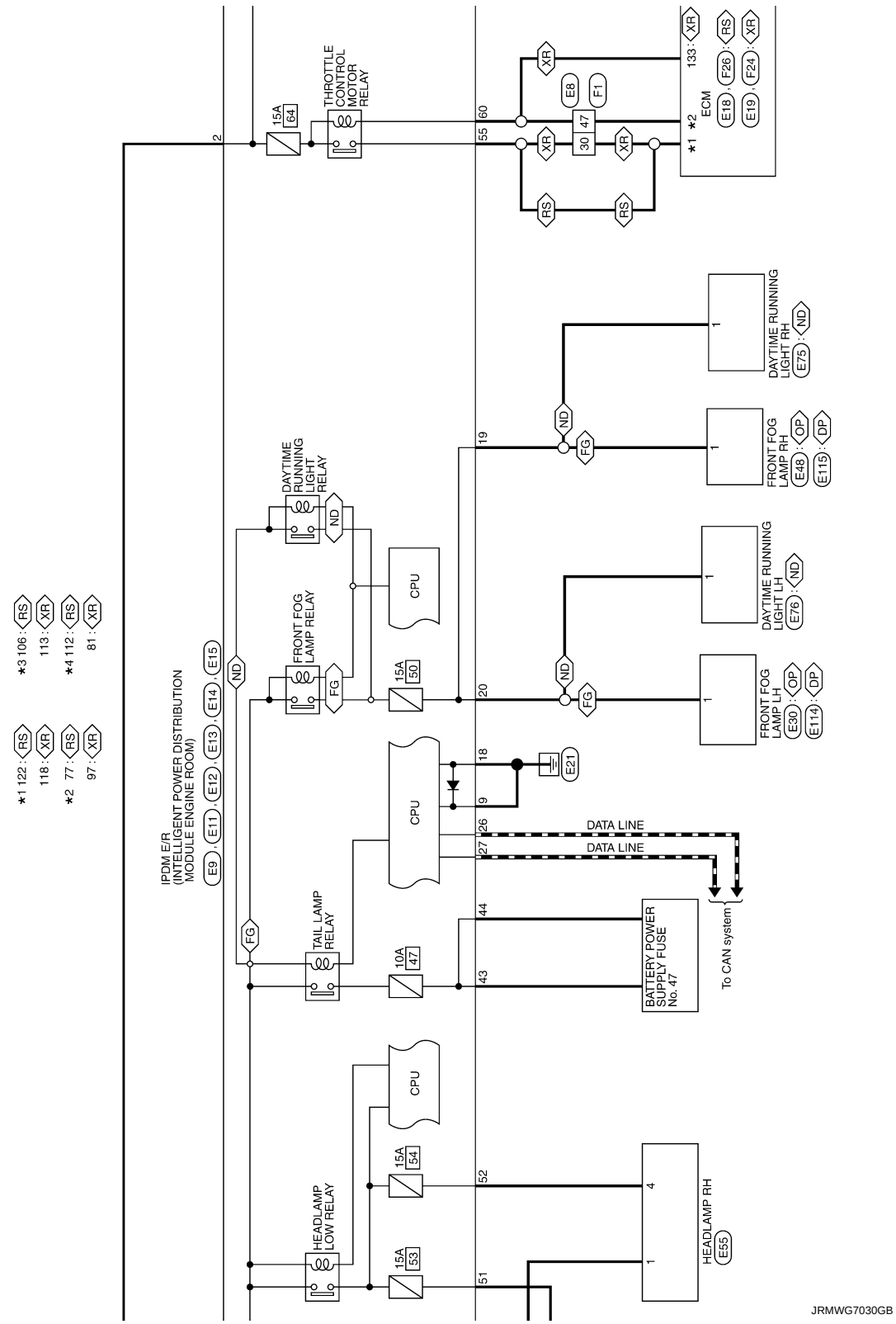
POWER SUPPLY ROUTING CIRCUIT

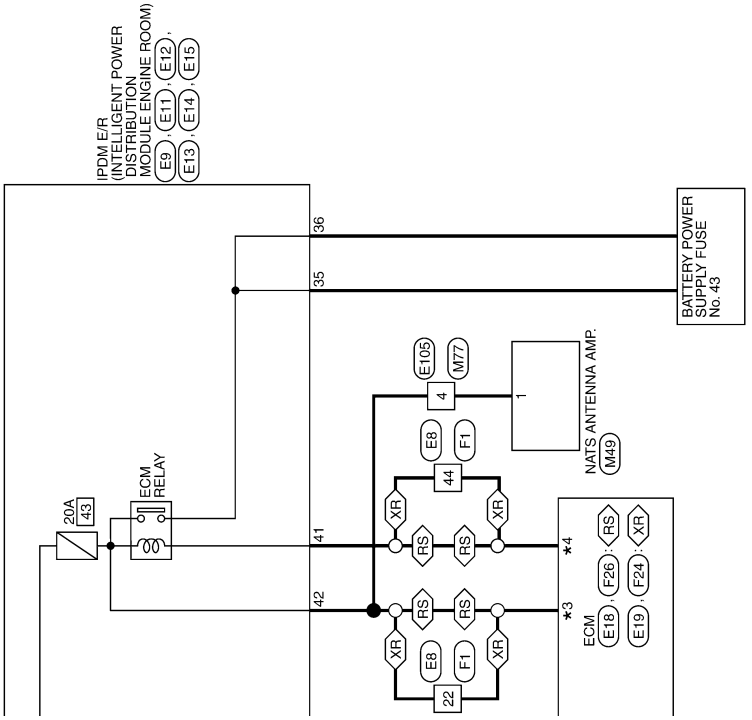
Wiring Diagram - BATTERY POWER SUPPLY -

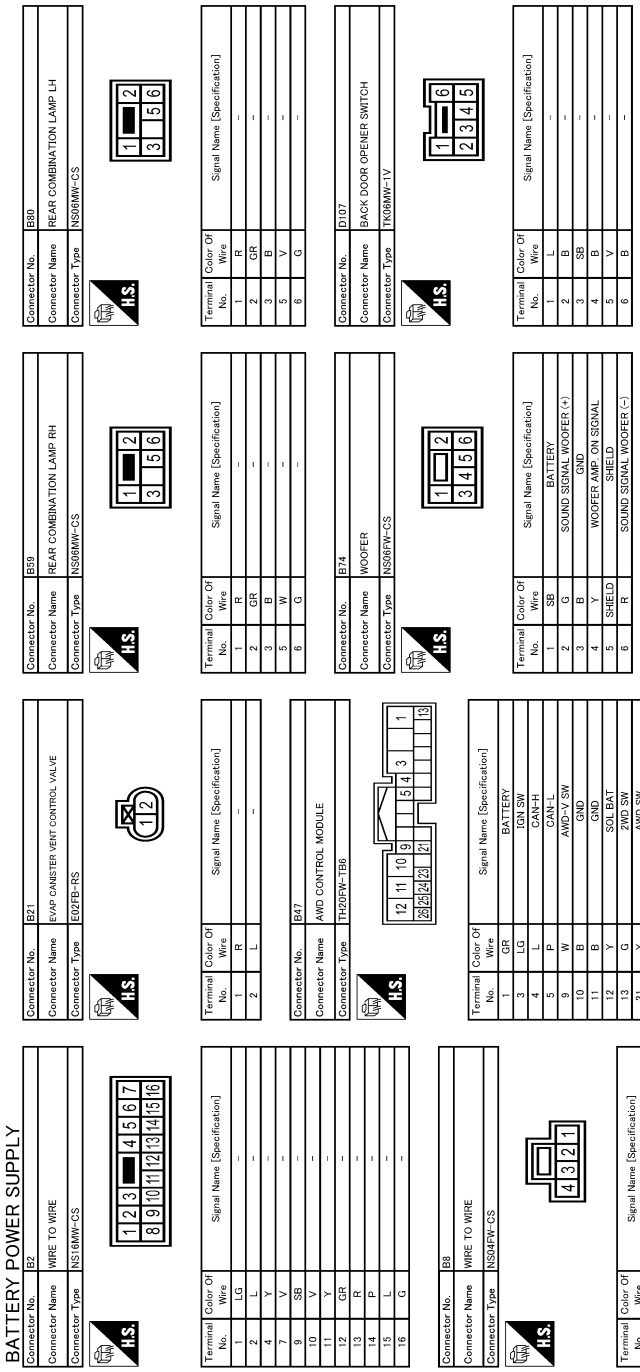
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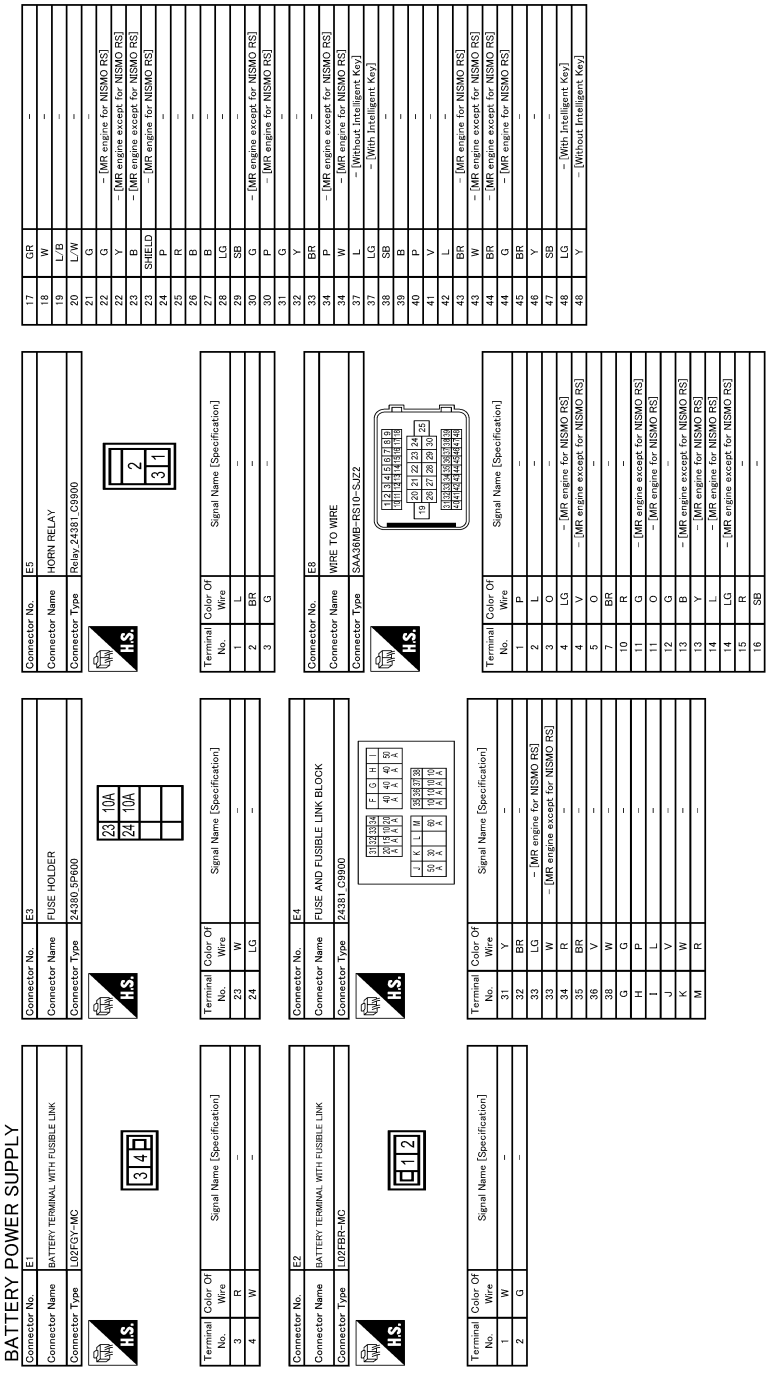

IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9, E11, E12, E13, E14, E15
HEADLAMP HIGH RELAY
CPU
10A 51
10A 52
HEADLAMP LH
E54
FUSE BLOCK (J/B)
M1
10A 13
10A 12
10A 9
15A 8
10A 7
BATTERY POWER SUPPLY FUSE No. 13
AWD CONTROL MODULE
B47
BCM (BODY CONTROL MODULE)
M69
HEATED SEAT RELAY
M71
BATTERY POWER SUPPLY FUSE No. 7
FUSE HOLDER
E3
10A 24
10A 23
DAYTIME RUNNING LIGHT RELAY
E65
TCM
F83
FUSE AND FUSIBLE LINK BLOCK
E4
10A 38
BCM (BODY CONTROL MODULE)
M70
STOP LAMP SWITCH
E102
E118
E106
M78
E108
B8
E8
F1
E105
M77
M19
B2
*5 4 : RS 14 : XR
*6 47 : RS 45 : XR
JRMWG7029GB


IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9, E11, E12, E13, E14, E15
*1 122 : RS
118 : XR
*2 77 : RS
97 : XR
*3 106 : RS
113 : XR
*4 112 : RS
81 : XR
15A 64
THROTTLE CONTROL MOTOR RELAY
ECM
E18, E19
E8
F1
47
30
133 : XR
E26 : RS
F24 : XR
DAYTIME RUNNING LIGHT RELAY
FRONT FOG LAMP RELAY
TAIL LAMP RELAY
HEADLAMP LOW RELAY
CPU
15A 50
10A 47
15A 54
15A 53
DAYTIME RUNNING LIGHT RH
E75 : ND
FRONT FOG LAMP RH
E48 : OP
E115 : DP
DAYTIME RUNNING LIGHT LH
E76 : ND
FRONT FOG LAMP LH
E30 : OP
E114 : DP
E21
DATA LINE
DATA LINE
To CAN system
BATTERY POWER SUPPLY FUSE No. 47
HEADLAMP RH
E55
JRMWG7030GB


IPDM E/R
(INTELLIGENT POWER
DISTRIBUTION
MODULE ENGINE ROOM)
E9, E11, E12,
E13, E14, E15
36
35
BATTERY POWER
SUPPLY FUSE
No. 43
E105
4
M77
1
NATS ANTENNA AMP.
M49
E8
F1
44
XR
RS
RS
XR
20A
43
ECM
RELAY
41
42
*4
*3
ECM
E18, F26, RS, XR
E19, F24, XR
XR
E8
F1
XR
22
JRMWG7031GB

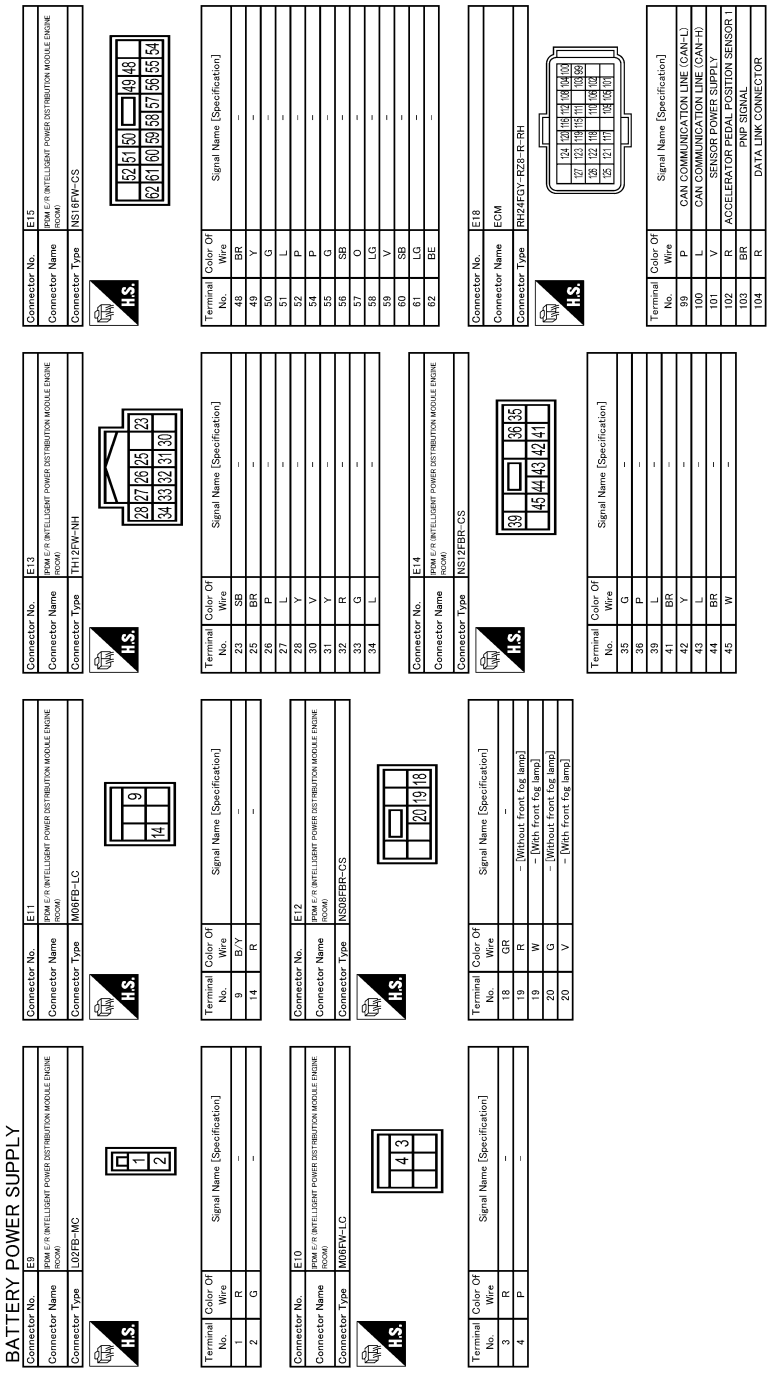


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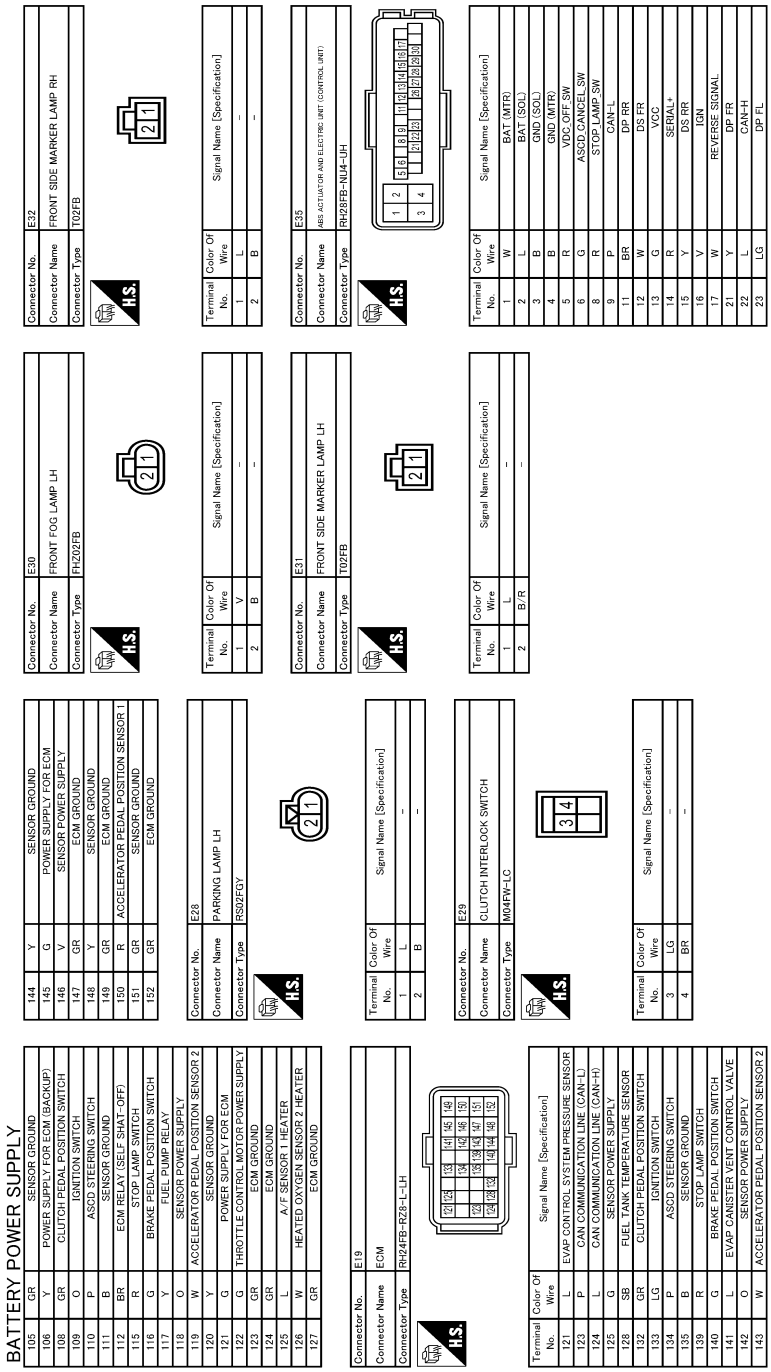


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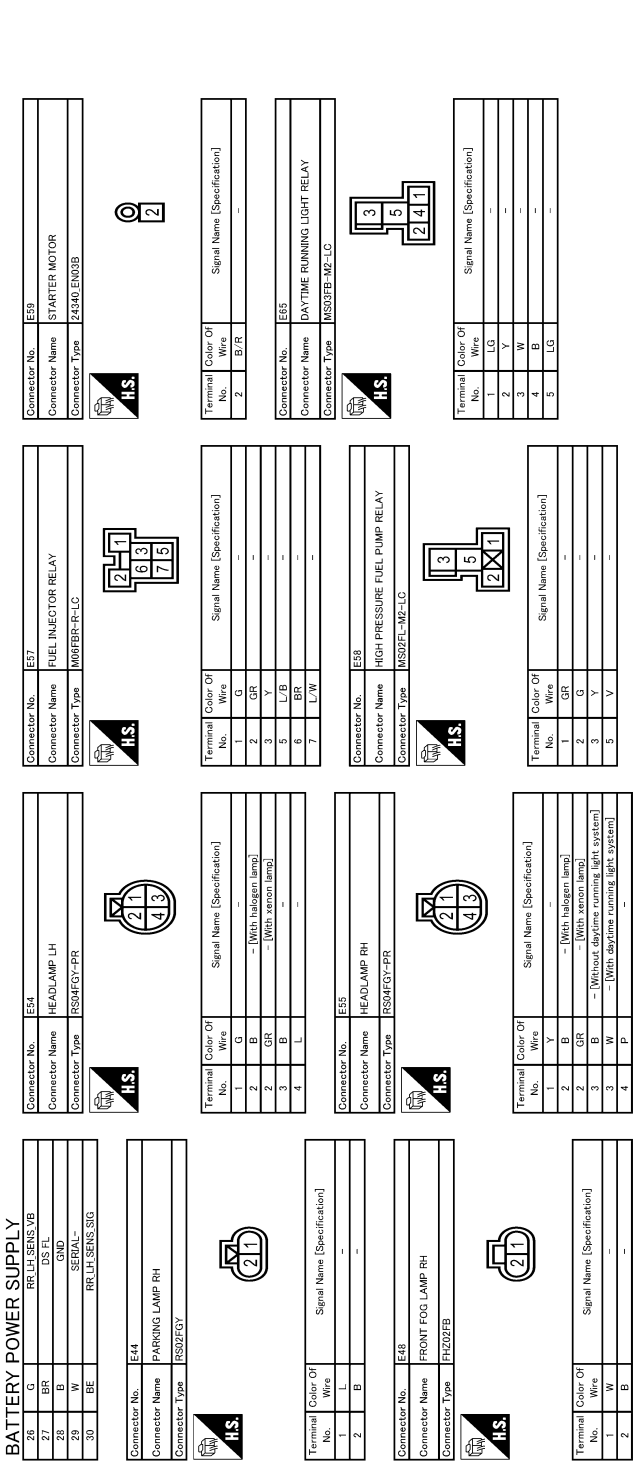
BATTERY POWER SUPPLY



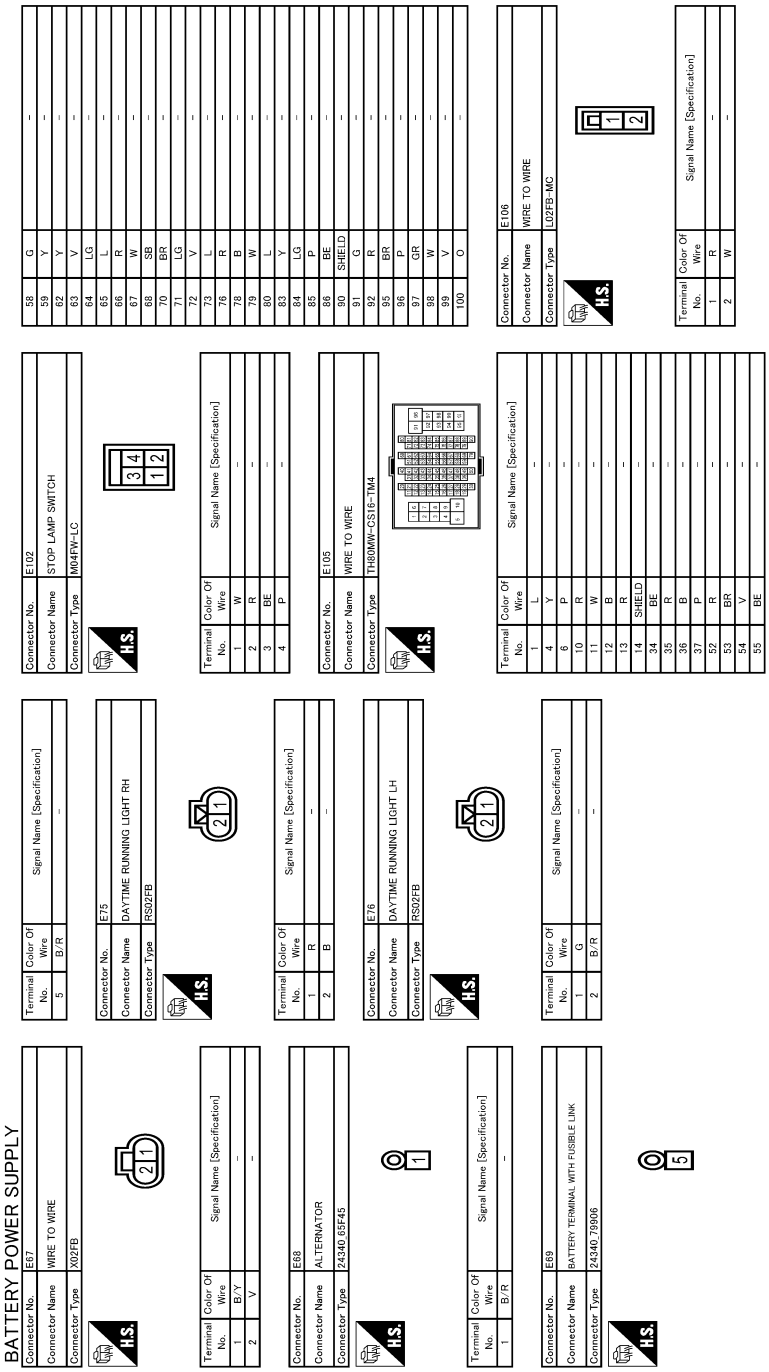
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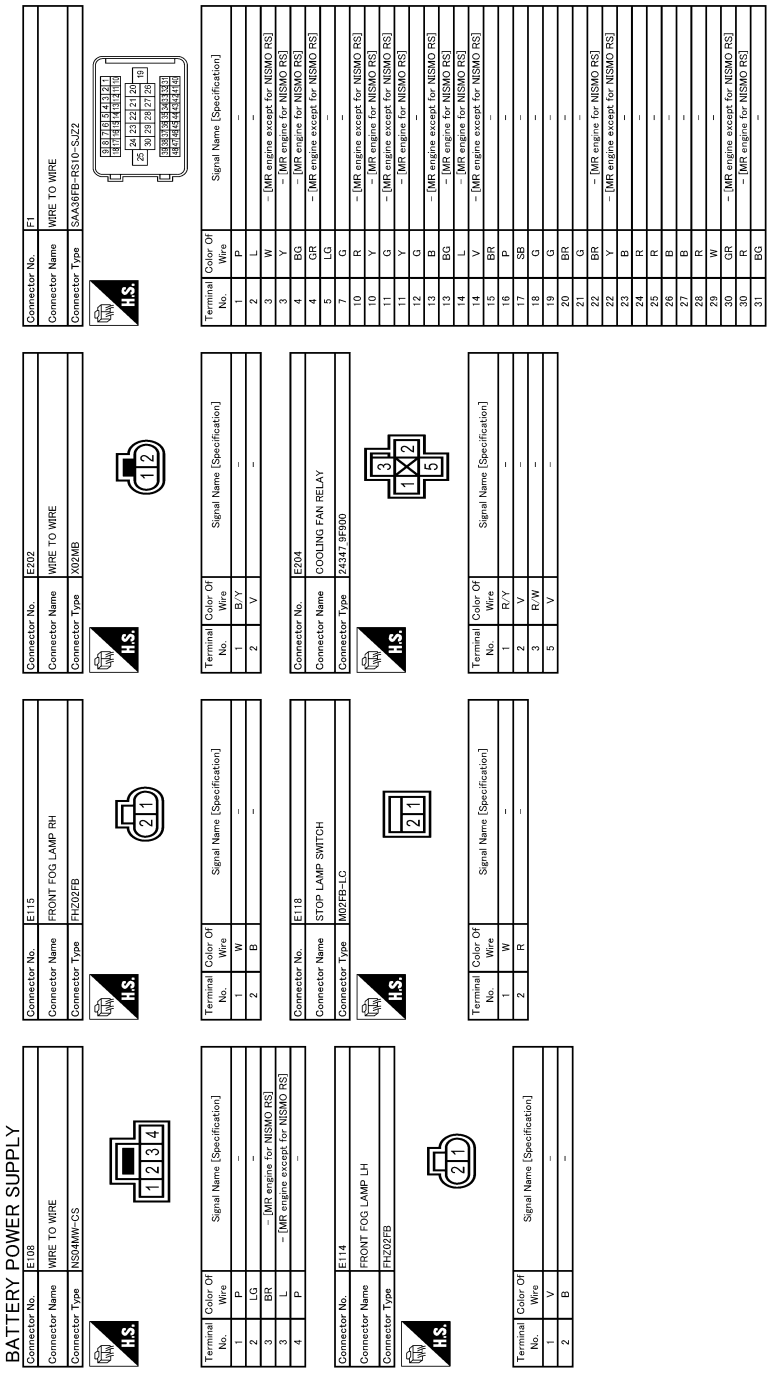
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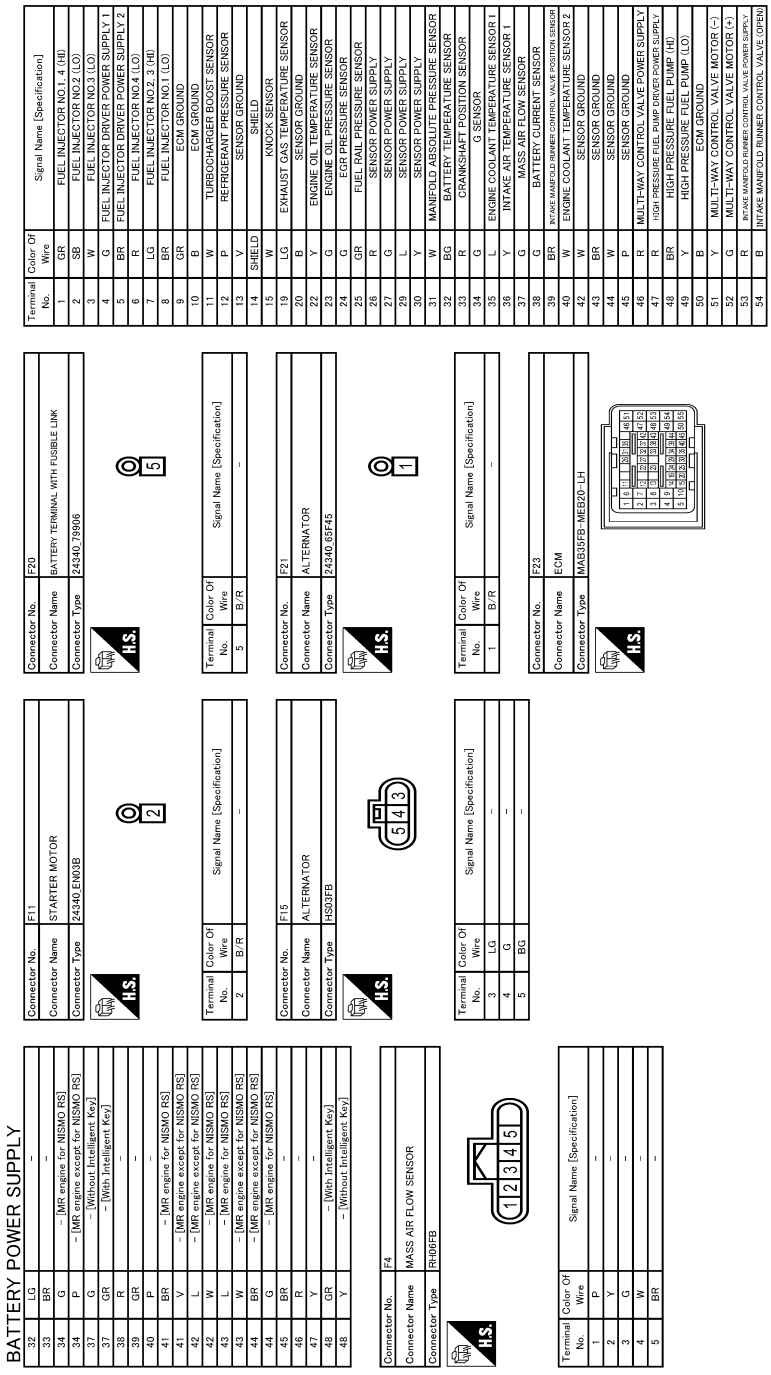
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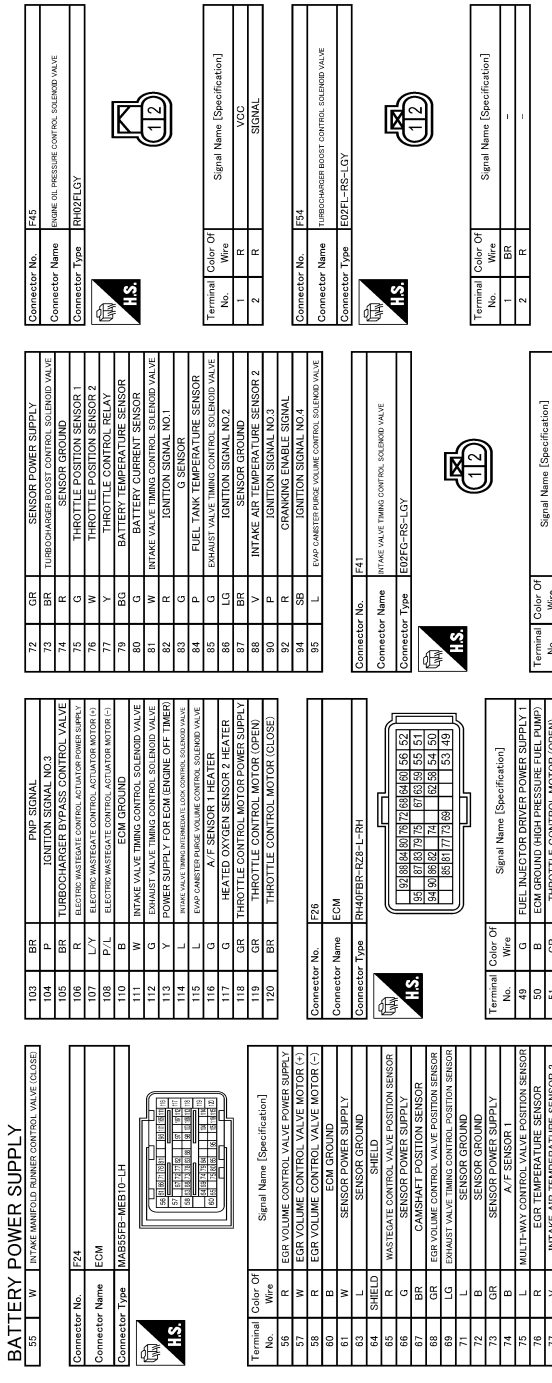
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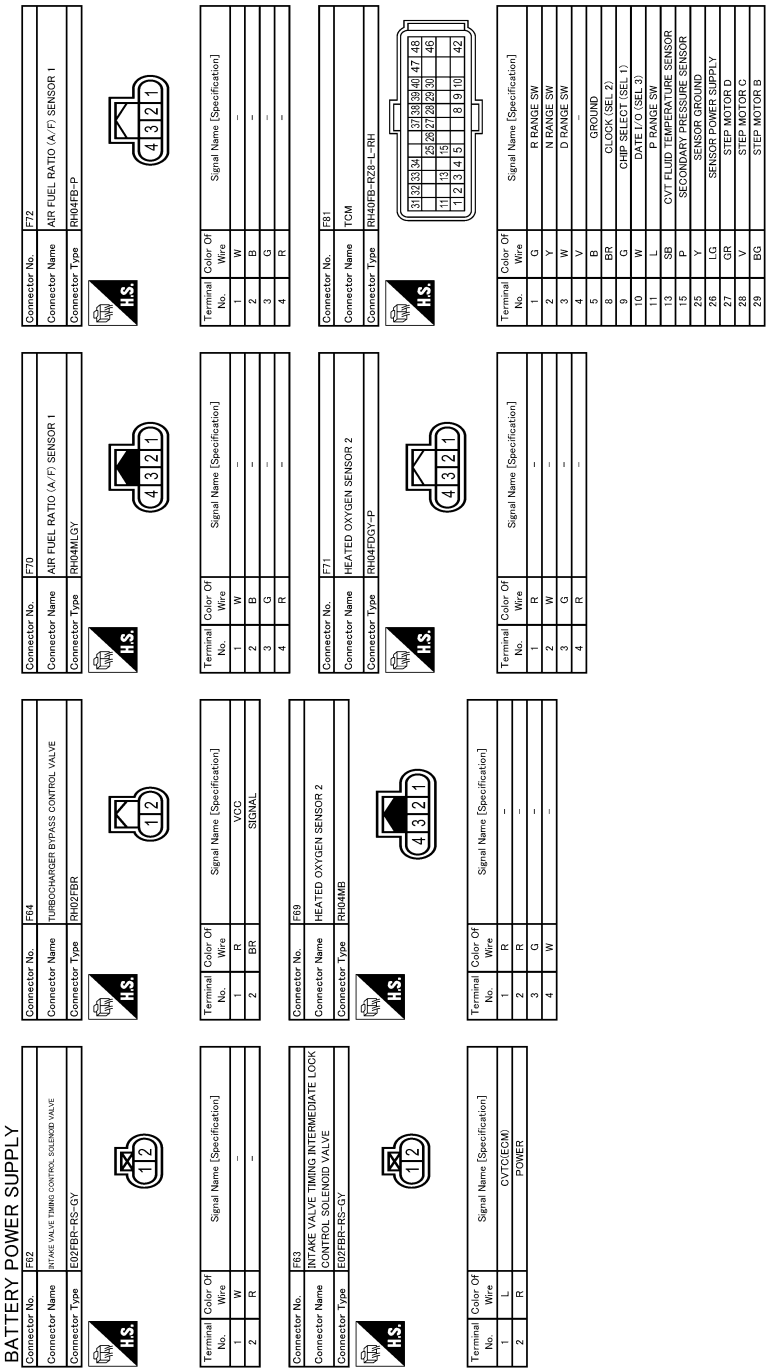
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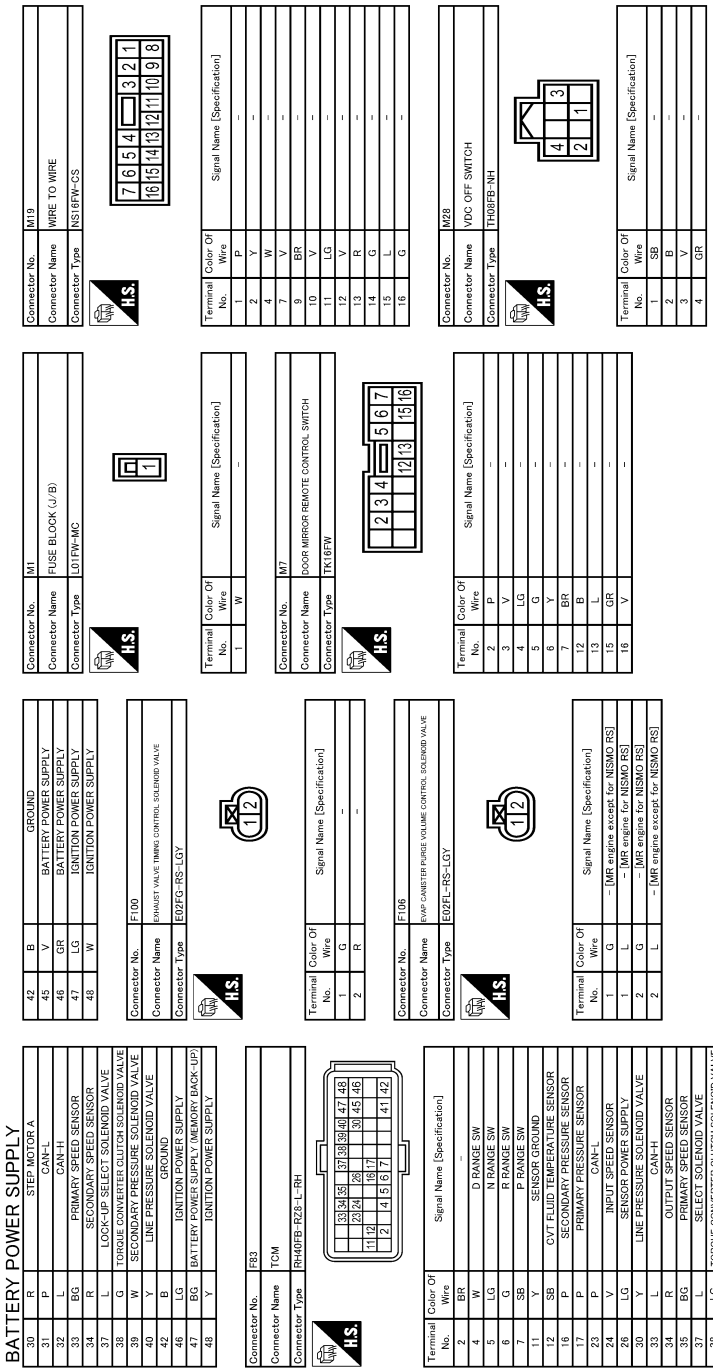
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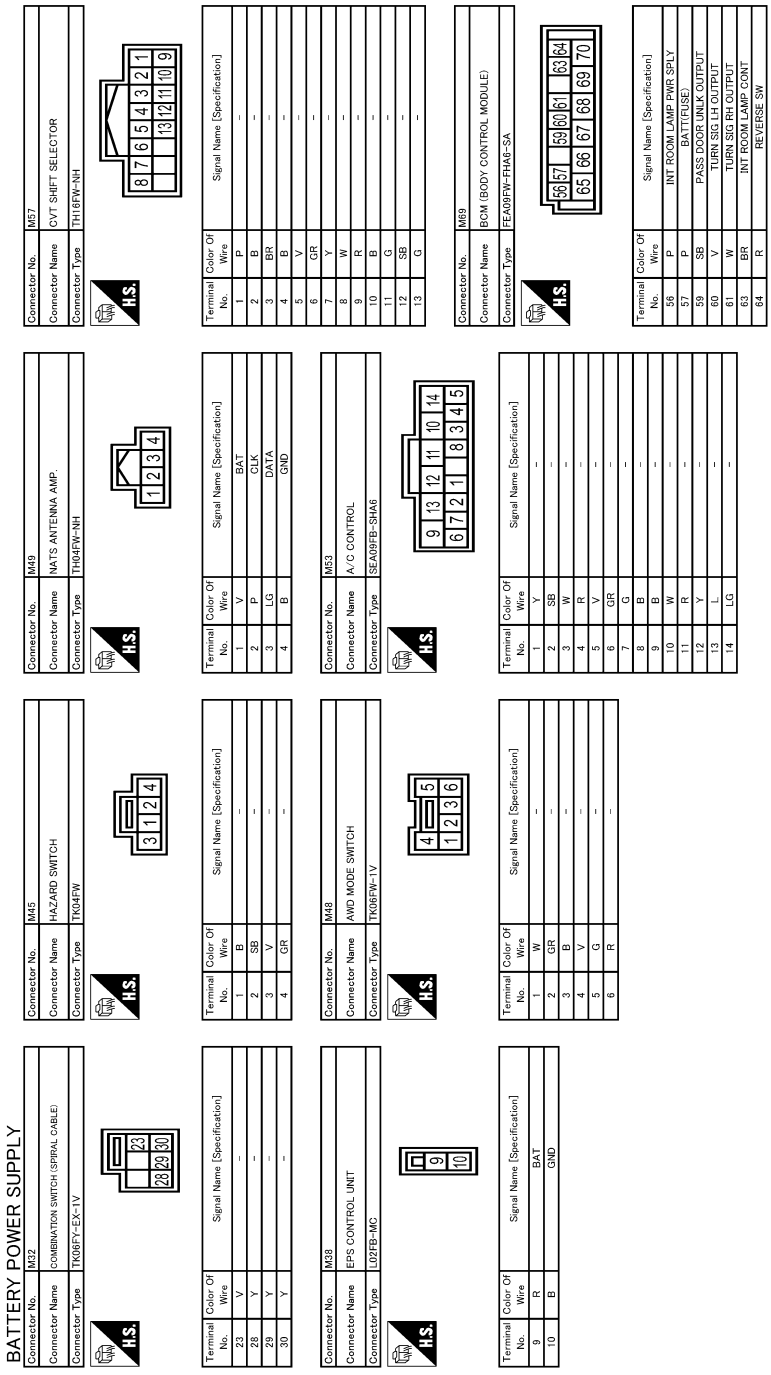
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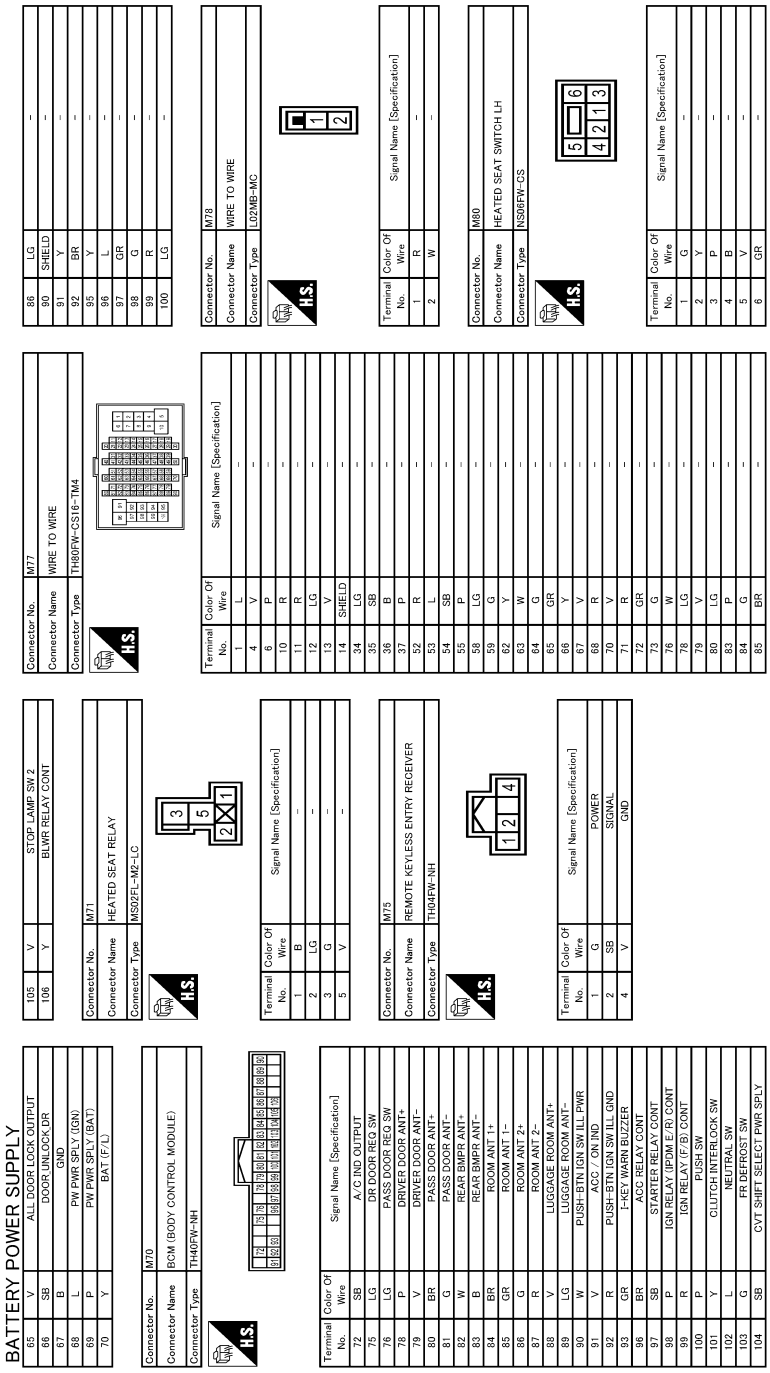
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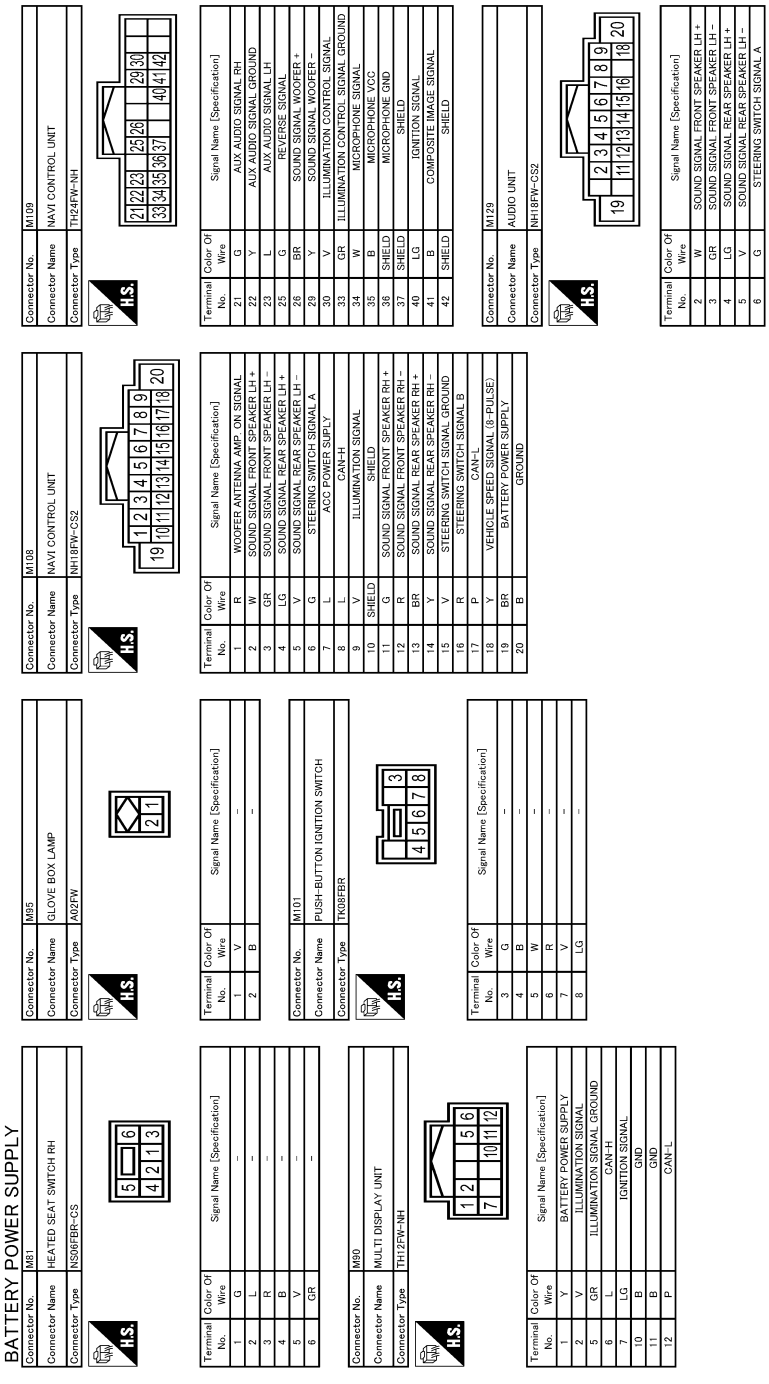
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JRMWG7043GB



JRMWG7044GB



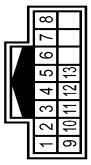
JRMWG7045GB

BATTERY POWER SUPPLY

7	L	ACC POWER SUPLY
8	GR	ILLUMINATION CONTROL SIGNAL GROUND
9	V	ILLUMINATION CONTROL SIGNAL
11	G	SOUND SIGNAL FRONT SPEAKER RH +
12	R	SOUND SIGNAL FRONT SPEAKER RH −
13	BR	SOUND SIGNAL REAR SPEAKER RH +
14	Y	SOUND SIGNAL REAR SPEAKER RH −
15	V	STEERING SWITCH SIGNAL GROUND
16	R	STEERING SWITCH SIGNAL B
18	Y	VEHICLE SPEED SIGNAL (8-PULSE)
19	BR	BATTERY POWER SUPPLY
20	B	GROUND

Connector No.	M324
Connector Name	CVT SHIFT SELECTOR
Connector Type	TH16MW-NH

H.S.



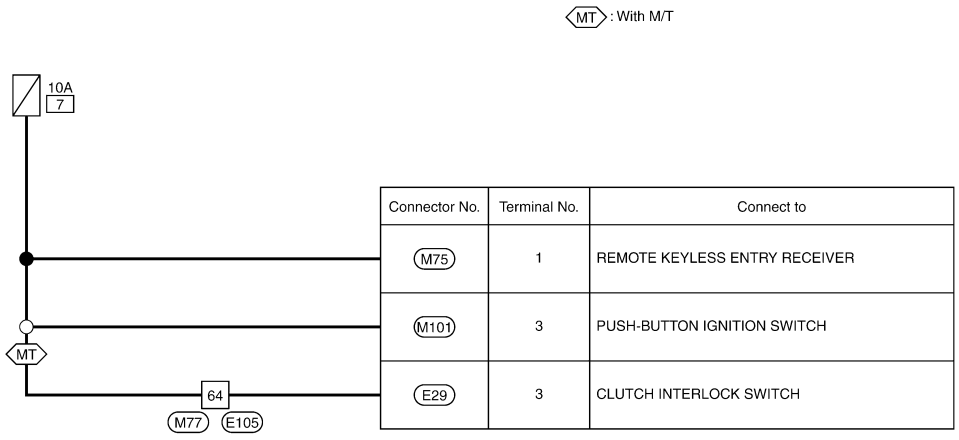
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	Y	-
3	W	-
4	P	-
5	G	-
6	G	-
7	BR	-
8	G	-
9	GR	-
10	Y	-
11	L/W	-
12	O	-
13	LG	-

JRMWG7046GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.7 -

INFOID:0000000011461992

BATTERY POWER SUPPLY FUSE No. 7



Connector No.	Terminal No.	Connect to
M75	1	REMOTE KEYLESS ENTRY RECEIVER
M101	3	PUSH-BUTTON IGNITION SWITCH
E29	3	CLUTCH INTERLOCK SWITCH

2011/08/18

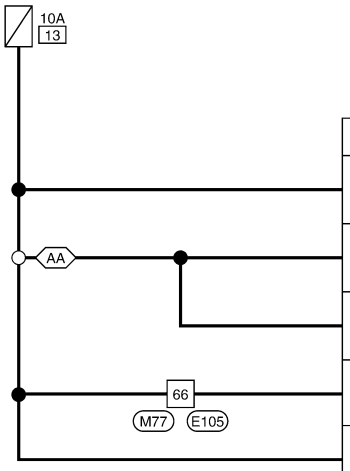
JRMWC5522GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.13 -

INFOID:0000000011461993

BATTERY POWER SUPPLY FUSE No. 13

AA : With automatic A/C



Connector No.	Terminal No.	Connect to
M4	16	DATA LINK CONNECTOR
M50	12	A/C AUTO AMP.
M90	1	MULTI DISPLAY UNIT
E25	1	INTELLIGENT KEY WARNING BUZZER
M34	27	COMBINATION METER

2014/09/22

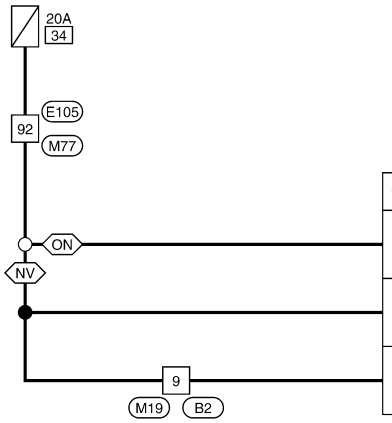
JRMWG7048GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.34 -

INFOID:0000000011461994

BATTERY POWER SUPPLY FUSE No. 34

NV : With NAVI
ON : Without NAVI



Connector No.	Terminal No.	Connect to
M129	19	AUDIO UNIT
M108	19	NAVI CONTROL UNIT
B74	1	WOOFER

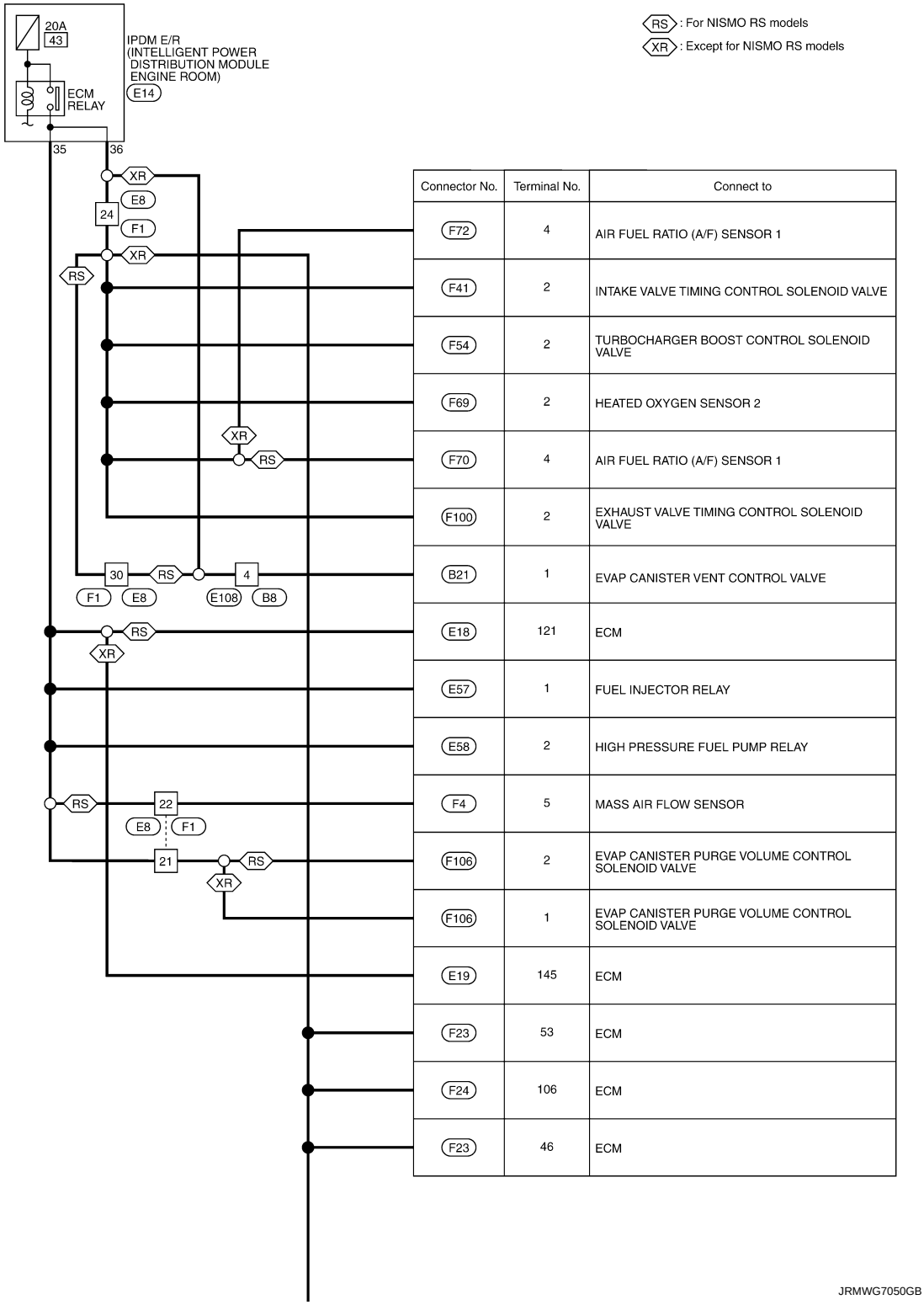
2014/09/22

JRMWG7049GB

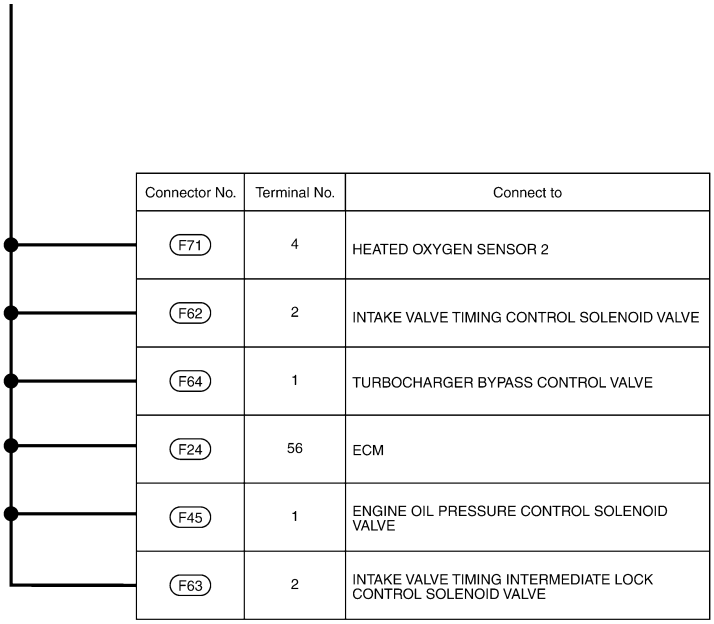
Wiring Diagram - BATTERY POWER SUPPLY FUSE No.43 -

INFOID:0000000011461995

BATTERY POWER SUPPLY FUSE No. 43



Connector No.	Terminal No.	Connect to
F72	4	AIR FUEL RATIO (A/F) SENSOR 1
F41	2	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F54	2	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
F69	2	HEATED OXYGEN SENSOR 2
F70	4	AIR FUEL RATIO (A/F) SENSOR 1
F100	2	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
B21	1	EVAP CANISTER VENT CONTROL VALVE
E18	121	ECM
E57	1	FUEL INJECTOR RELAY
E58	2	HIGH PRESSURE FUEL PUMP RELAY
F4	5	MASS AIR FLOW SENSOR
F106	2	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F106	1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
E19	145	ECM
F23	53	ECM
F24	106	ECM
F23	46	ECM



Connector No.	Terminal No.	Connect to
F71	4	HEATED OXYGEN SENSOR 2
F62	2	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F64	1	TURBOCHARGER BYPASS CONTROL VALVE
F24	56	ECM
F45	1	ENGINE OIL PRESSURE CONTROL SOLENOID VALVE
F63	2	INTAKE VALVE TIMING INTERMEDIATE LOCK CONTROL SOLENOID VALVE

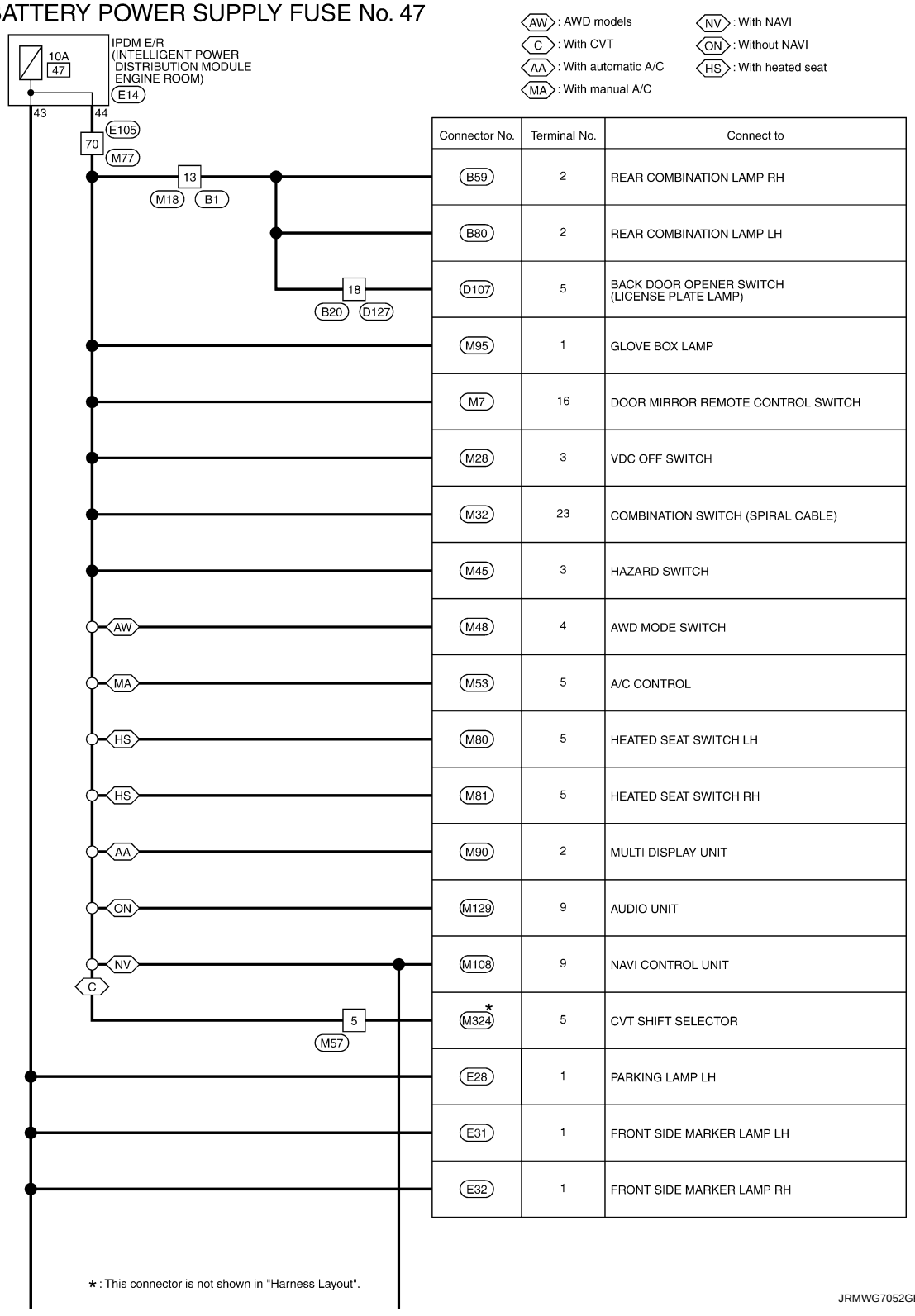
2014/09/22

JRMWG7051GB

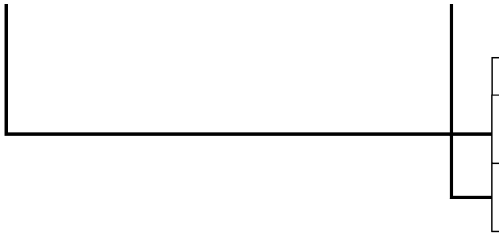
Wiring Diagram - BATTERY POWER SUPPLY FUSE No.47 -

INFOID:0000000011461996

BATTERY POWER SUPPLY FUSE No. 47



Connector No.	Terminal No.	Connect to
B59	2	REAR COMBINATION LAMP RH
B80	2	REAR COMBINATION LAMP LH
D107	5	BACK DOOR OPENER SWITCH (LICENSE PLATE LAMP)
M95	1	GLOVE BOX LAMP
M7	16	DOOR MIRROR REMOTE CONTROL SWITCH
M28	3	VDC OFF SWITCH
M32	23	COMBINATION SWITCH (SPIRAL CABLE)
M45	3	HAZARD SWITCH
M48	4	AWD MODE SWITCH
M53	5	A/C CONTROL
M80	5	HEATED SEAT SWITCH LH
M81	5	HEATED SEAT SWITCH RH
M90	2	MULTI DISPLAY UNIT
M129	9	AUDIO UNIT
M108	9	NAVI CONTROL UNIT
M324*	5	CVT SHIFT SELECTOR
E28	1	PARKING LAMP LH
E31	1	FRONT SIDE MARKER LAMP LH
E32	1	FRONT SIDE MARKER LAMP RH



Connector No.	Terminal No.	
E44	1	PARKING LAMP RH
M109	30	NAVI CONTROL UNIT

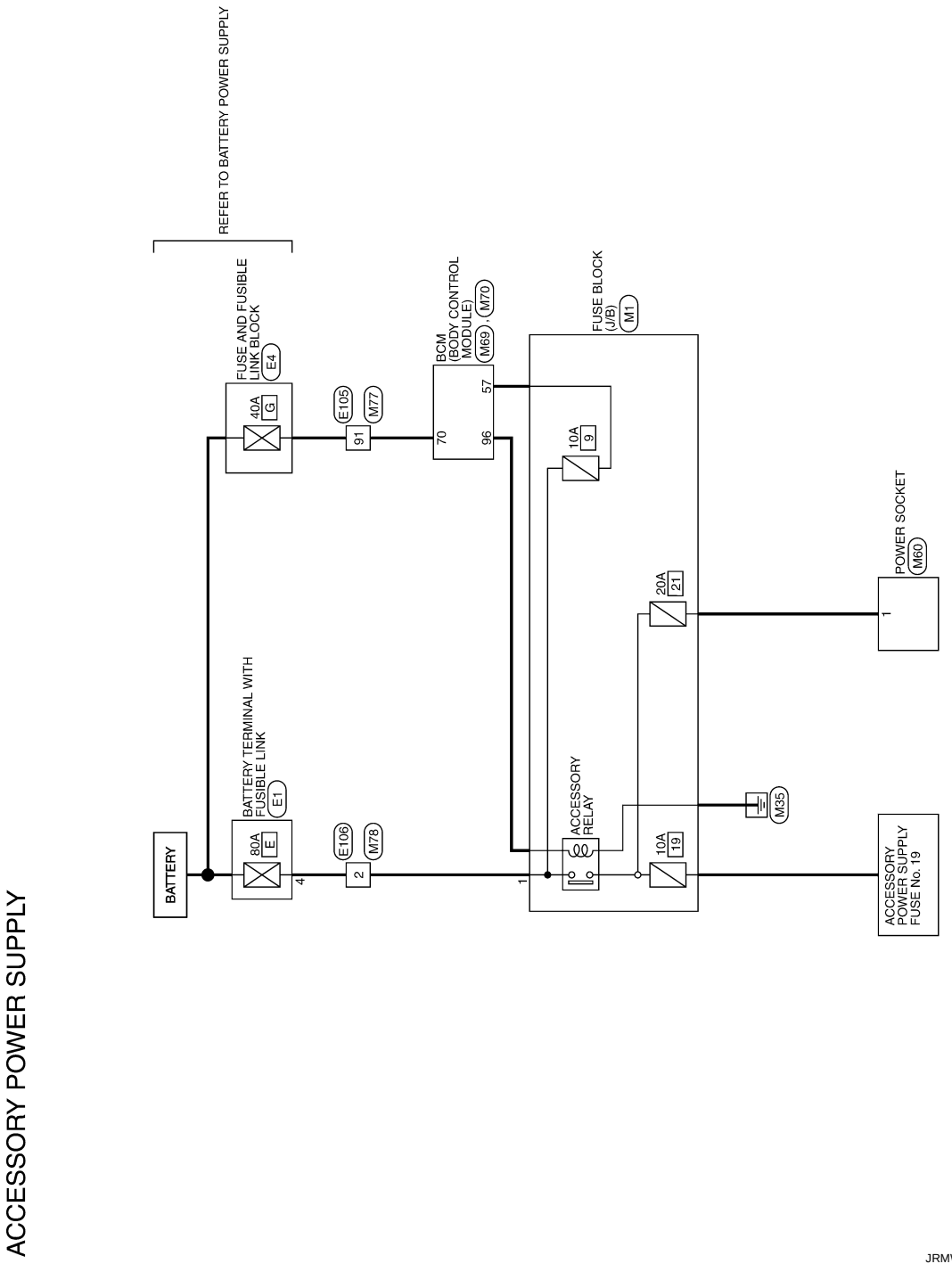
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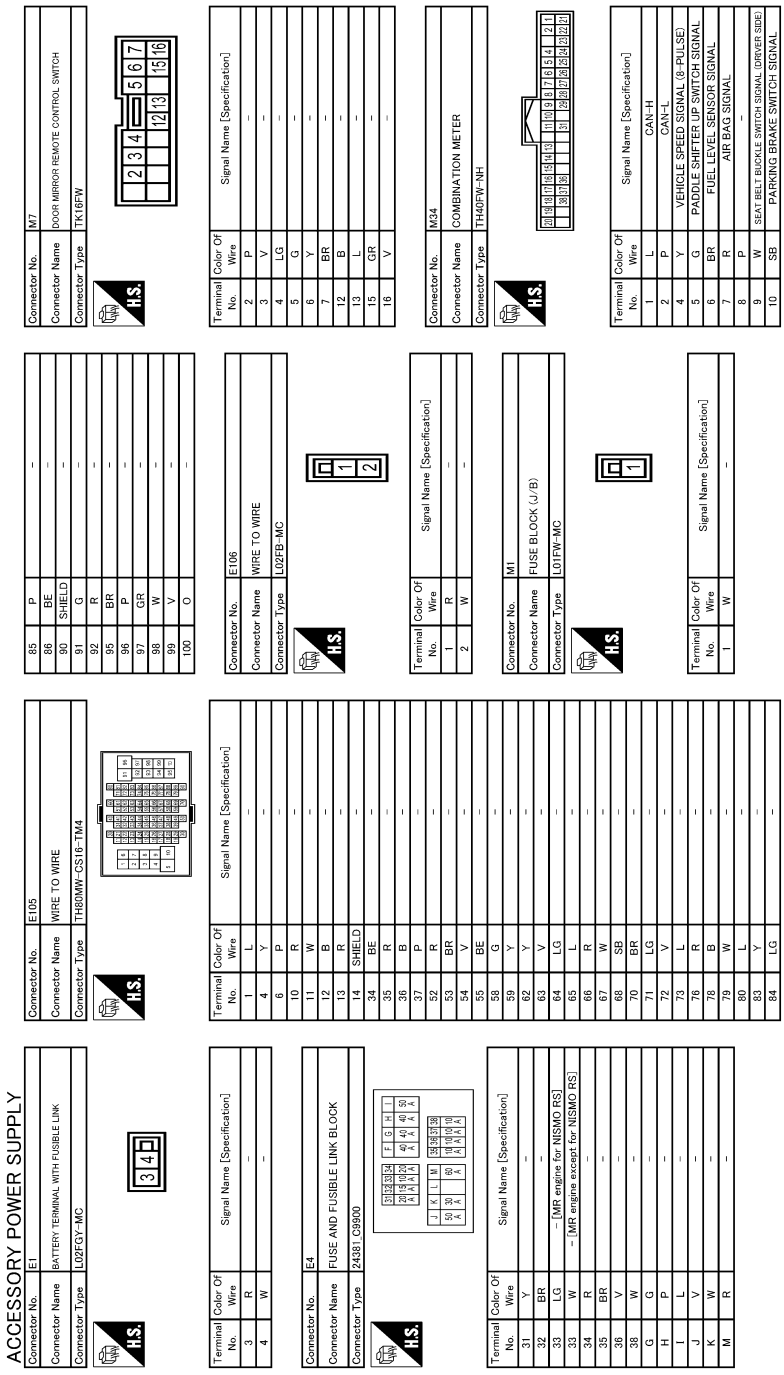
JRMWG7053GB

Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:0000000011461997

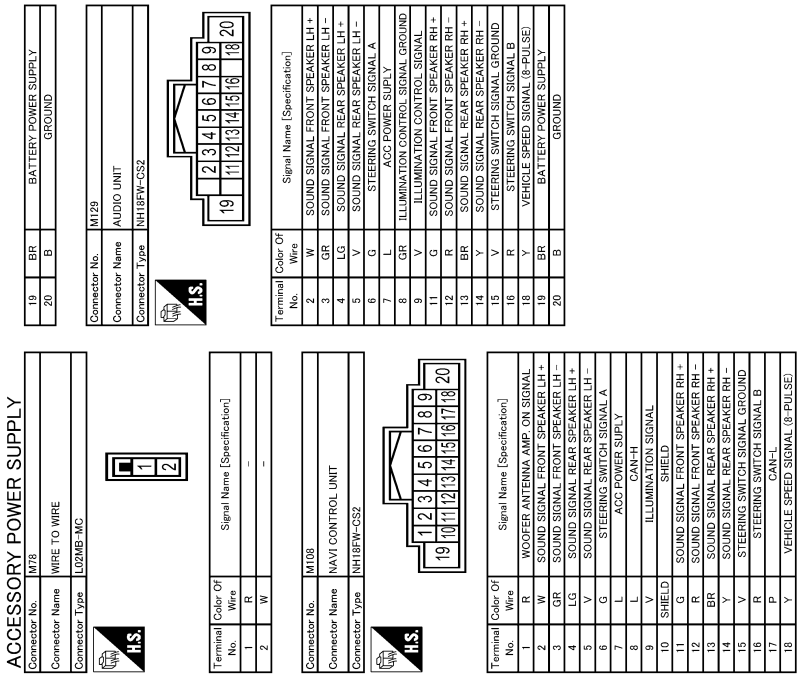
ACCESSORY POWER SUPPLY





JRMWG7055GB

JRMWG7056GB



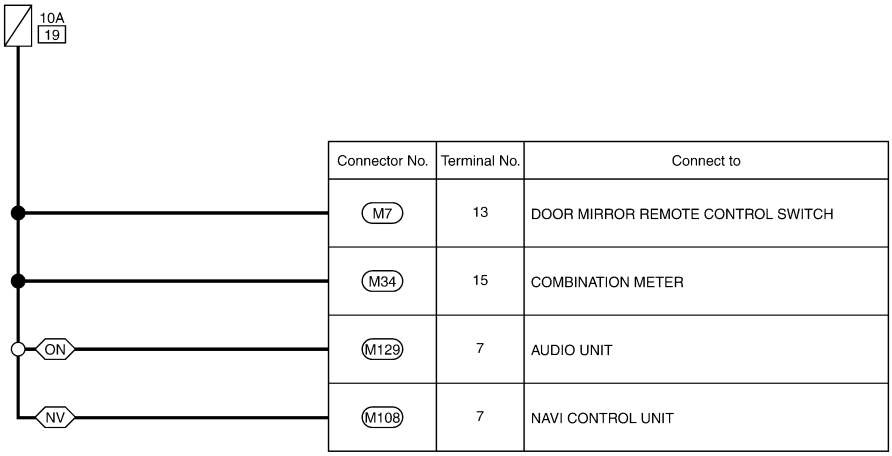
JRMWG7057GB

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No.19 -

INFOID:0000000011461999

ACCESSORY POWER SUPPLY FUSE No. 19

NV : With NAVI
ON : Without NAVI



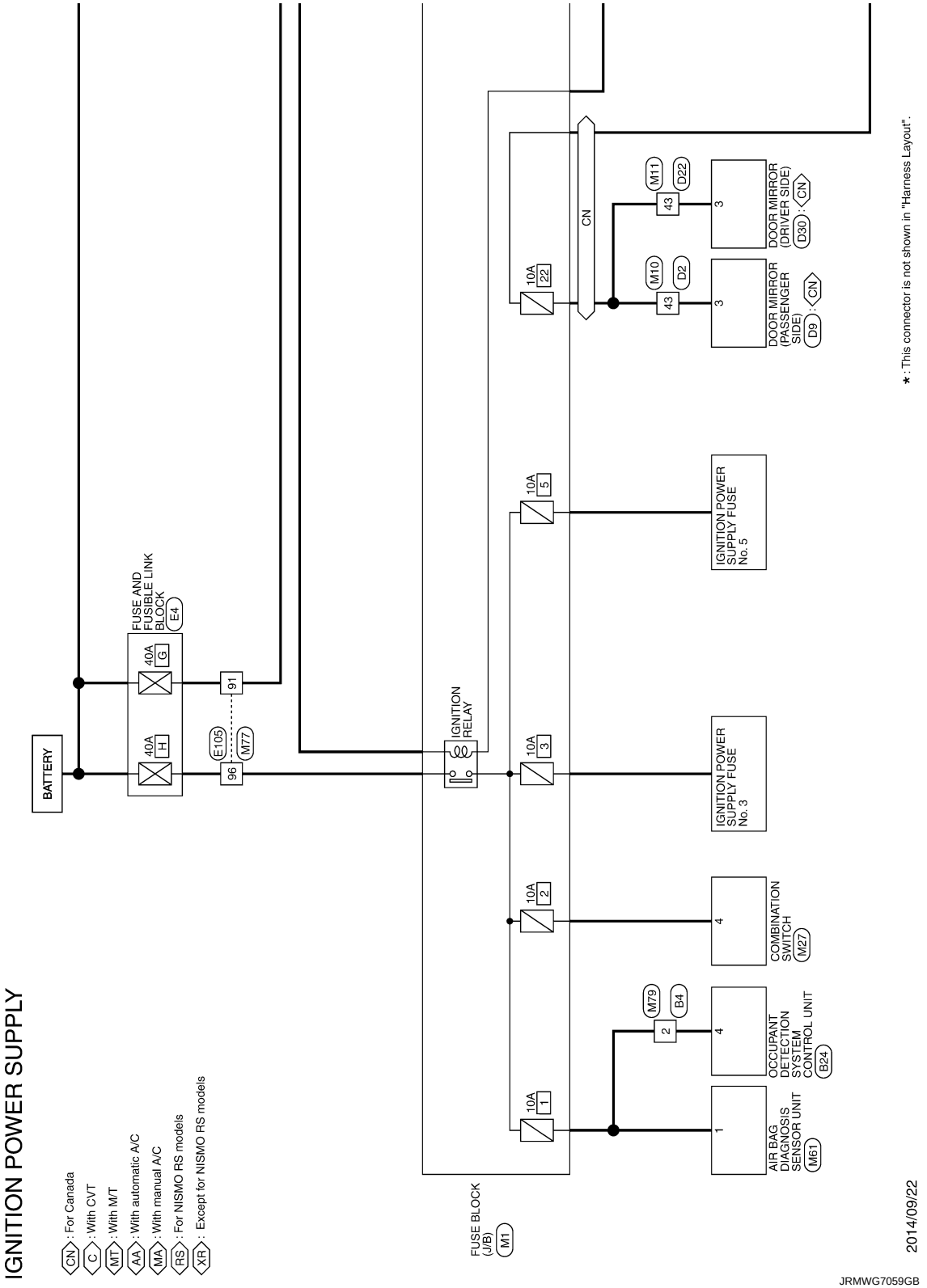
Connector No.	Terminal No.	Connect to
M7	13	DOOR MIRROR REMOTE CONTROL SWITCH
M34	15	COMBINATION METER
M129	7	AUDIO UNIT
M108	7	NAVI CONTROL UNIT

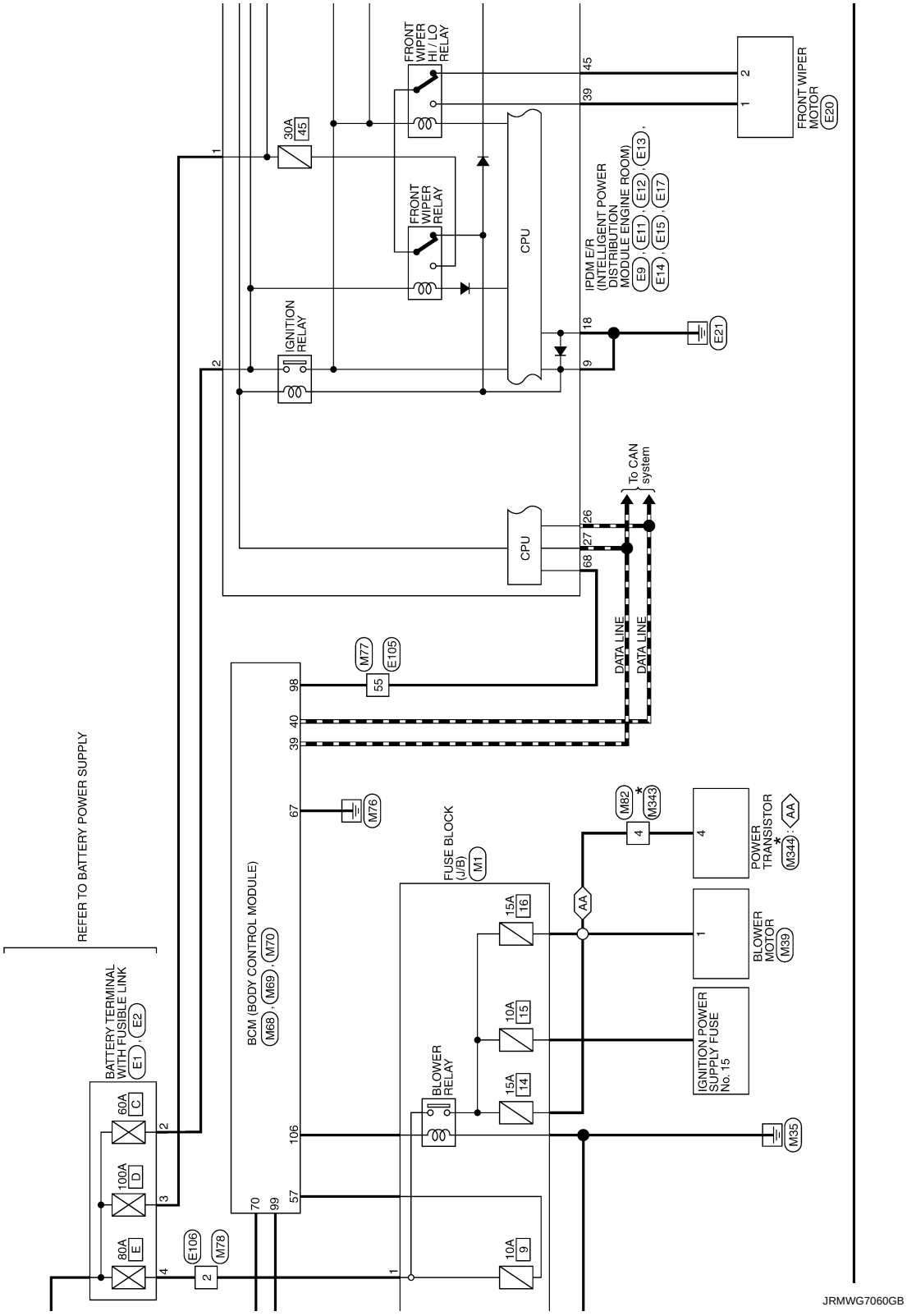
2014/09/22

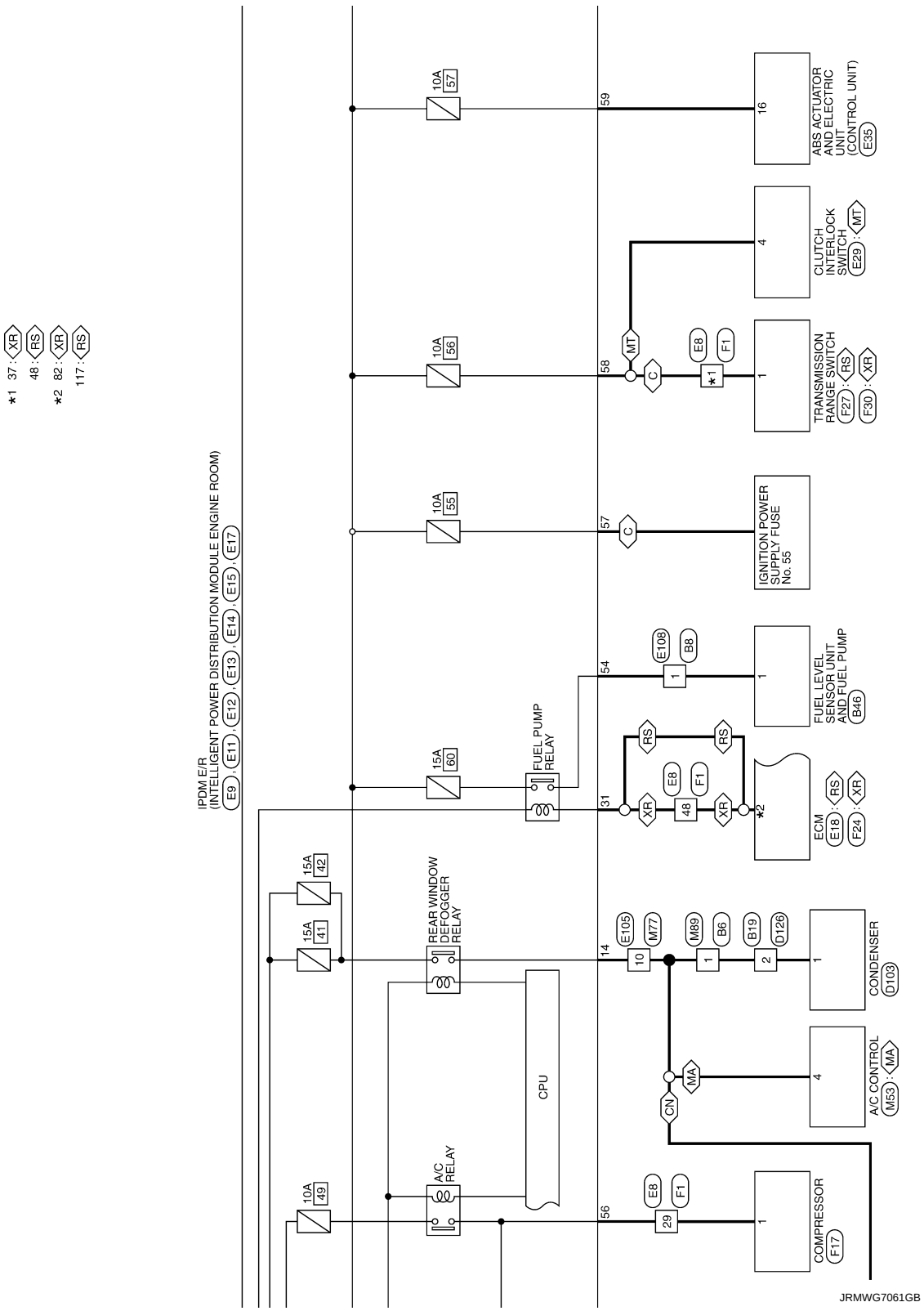
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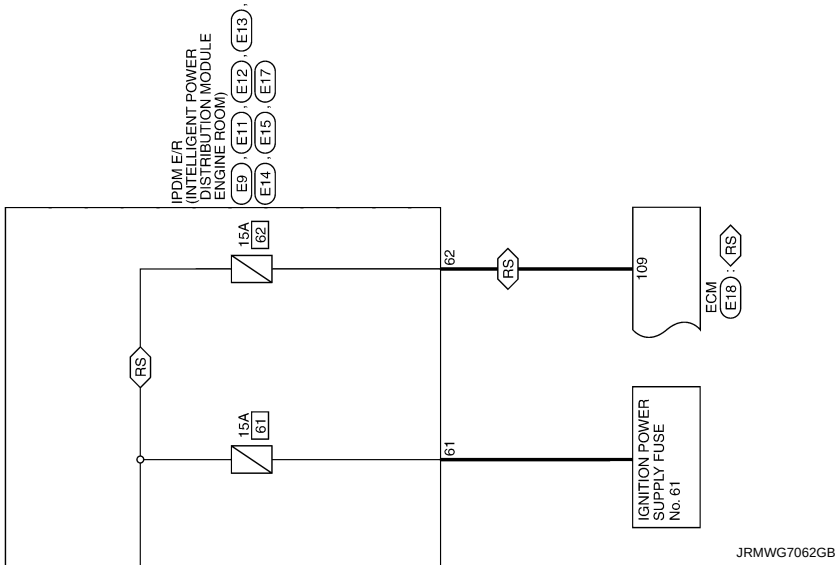
Wiring Diagram - IGNITION POWER SUPPLY -

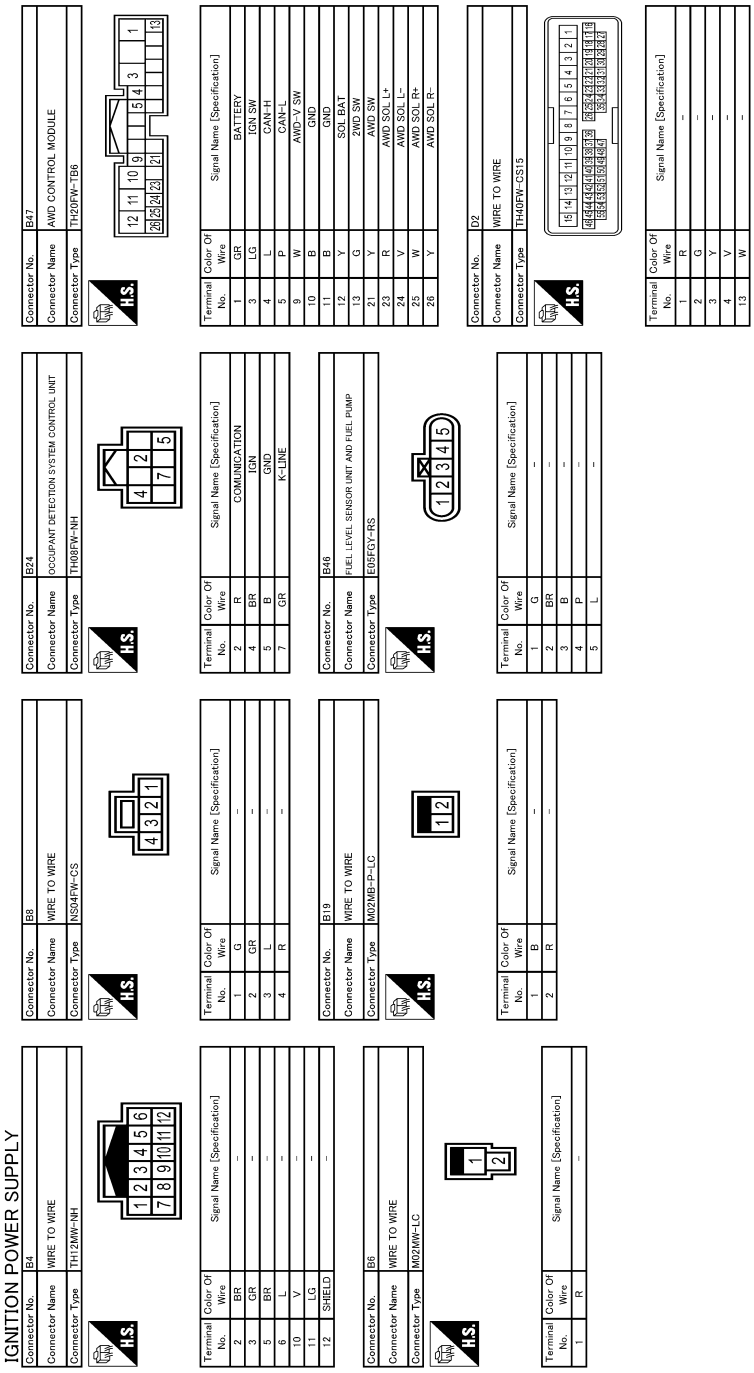
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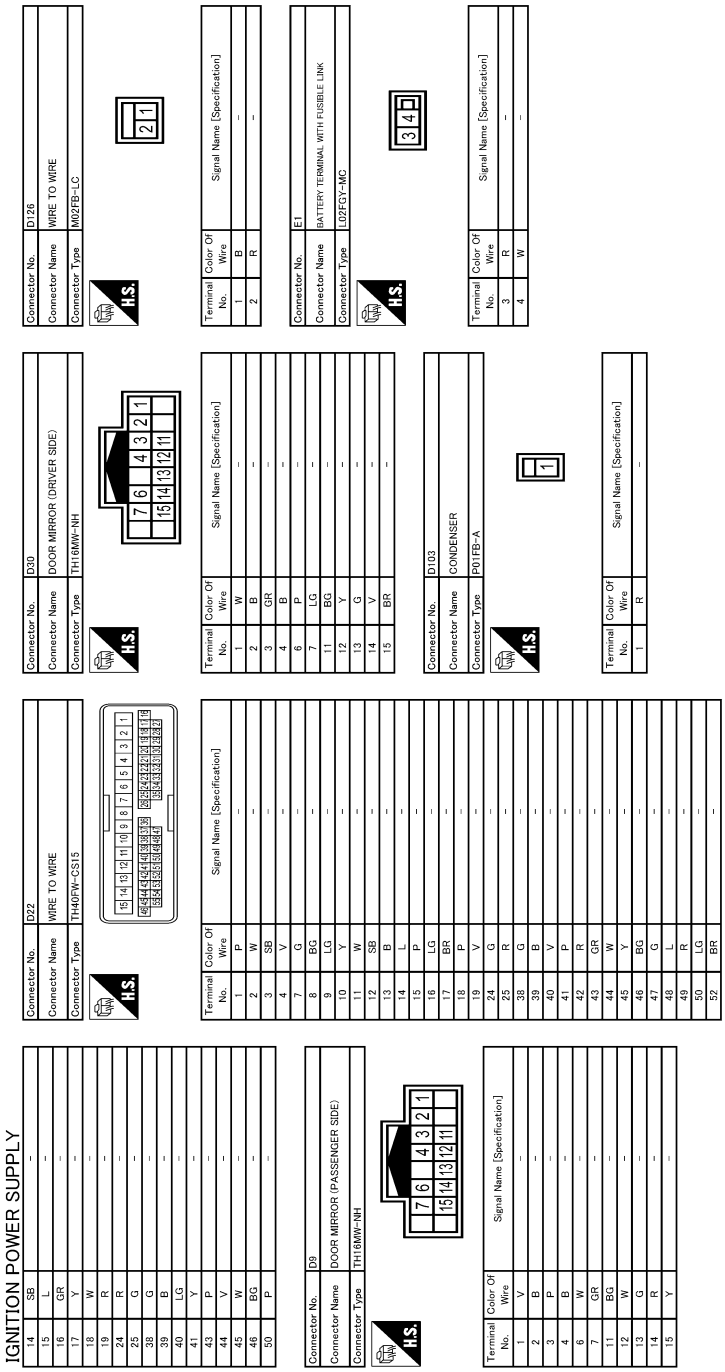

REFER TO BATTERY POWER SUPPLY
BATTERY TERMINAL WITH FUSIBLE LINK (E1), (E2)
60A C
100A D
80A E
BCM (BODY CONTROL MODULE) (M68), (M69), (M70)
E106
M78
IGNITION RELAY
FRONT WIPER HI / LO RELAY
FRONT WIPER RELAY
30A 45
CPU
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (E9), (E11), (E12), (E13), (E14), (E15), (E17)
E21
FRONT WIPER MOTOR E20
To CAN system
DATA LINE
DATA LINE
M77
E105
M76
FUSE BLOCK (J/B) M1
BLOWER RELAY
15A 16
10A 15
15A 14
10A 9
M82
M343
POWER TRANSISTOR * M344: AA
BLOWER MOTOR M39
IGNITION POWER SUPPLY FUSE No. 15
M35
JRMWG7060GB


*1 37 : XR
48 : RS
*2 82 : XR
117 : RS
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9 , E11 , E12 , E13 , E14 , E15 , E17
10A 57
10A 56
10A 55
15A 60
15A 42
15A 41
10A 49
FUEL PUMP RELAY
REAR WINDOW DEFOGGER RELAY
A/C RELAY
CPU
59
58
57
54
31
14
56
16
ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
E35
CLUTCH INTERLOCK SWITCH
E29 : MT
TRANSMISSION RANGE SWITCH
F27 : RS
F30 : XR
IGNITION POWER SUPPLY FUSE No. 55
FUEL LEVEL SENSOR UNIT AND FUEL PUMP
B46
ECM
E18 : RS
F24 : XR
CONDENSER
D103
A/C CONTROL
M53 : MA
COMPRESSOR
F17
E108
B8
E8
F1
M77
M89
B6
B19
D126
JRMWG7061GB


IPDM E/R
(INTELLIGENT POWER
DISTRIBUTION MODULE
ENGINE ROOM)
E9, E11, E12, E13,
E14, E15, E17
15A
62
15A
61
62
61
RS
RS
RS
109
ECM
E18
IGNITION POWER
SUPPLY FUSE
No. 61
JRMWG7062GB



JRMWG7063GB


IGNITION POWER SUPPLY
Connector No. D22
Connector Name WIRE TO WIRE
Connector Type TH40FW-CS15
Connector No. D30
Connector Name DOOR MIRROR (DRIVER SIDE)
Connector Type TH16MW-NH
Connector No. D126
Connector Name WIRE TO WIRE
Connector Type M02FB-LC
Connector No. E1
Connector Name BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type L02FGY-MC
Connector No. D103
Connector Name CONDENSER
Connector Type P01FB-A
Connector No. D9
Connector Name DOOR MIRROR (PASSENGER SIDE)
Connector Type TH16MW-NH
H.S.
Terminal No. Color Of Wire Signal Name [Specification]
JRMWG7064GB

IGNITION POWER SUPPLY

Connector No.	E2
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FBR-MC

H.S.

E112

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	–
2	G	–

Connector No.	E4
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	24381 C9900

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
31	Y	–
32	BR	–
33	LG	– [MR engine for NISMO RS]
33	W	– [MR engine except for NISMO RS]
34	R	–
35	BR	–
36	V	–
38	W	–
G	G	–
H	P	–
I	L	–
J	V	–
K	W	–
M	R	–

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SAA36MB-RS10-SJ22

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	–
2	L	–
3	O	–
4	LG	– [MR engine for NISMO RS]
4	V	– [MR engine except for NISMO RS]
5	O	–
7	BR	–
10	R	–
11	G	– [MR engine except for NISMO RS]
11	O	– [MR engine for NISMO RS]
12	G	–
13	B	– [MR engine except for NISMO RS]
13	Y	– [MR engine for NISMO RS]
14	L	– [MR engine for NISMO RS]
14	LG	– [MR engine except for NISMO RS]
15	R	–
16	SB	–
17	GR	–
18	W	–
19	L/B	–
20	L/W	–
21	G	–
22	G	– [MR engine for NISMO RS]
22	Y	– [MR engine except for NISMO RS]
23	B	– [MR engine except for NISMO RS]
23	SHIELD	– [MR engine for NISMO RS]
24	P	–
25	R	–
26	B	–
27	B	–
28	LG	–
29	SB	–
30	G	– [MR engine except for NISMO RS]
30	P	– [MR engine for NISMO RS]
31	G	–
32	Y	–

33	BR	–
34	P	– [MR engine except for NISMO RS]
34	W	– [MR engine for NISMO RS]
37	L	– [Without Intelligent Key]
37	LG	– [With Intelligent Key]
38	SB	–
39	B	–
40	P	–
41	V	–
42	L	–
43	BR	– [MR engine for NISMO RS]
43	W	– [MR engine except for NISMO RS]
44	BR	– [MR engine except for NISMO RS]
44	G	– [MR engine for NISMO RS]
45	BR	–
46	Y	–
47	SB	–
48	LG	– [With Intelligent Key]
48	Y	– [Without Intelligent Key]

Connector No.	E9
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	G	–

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

H.S.

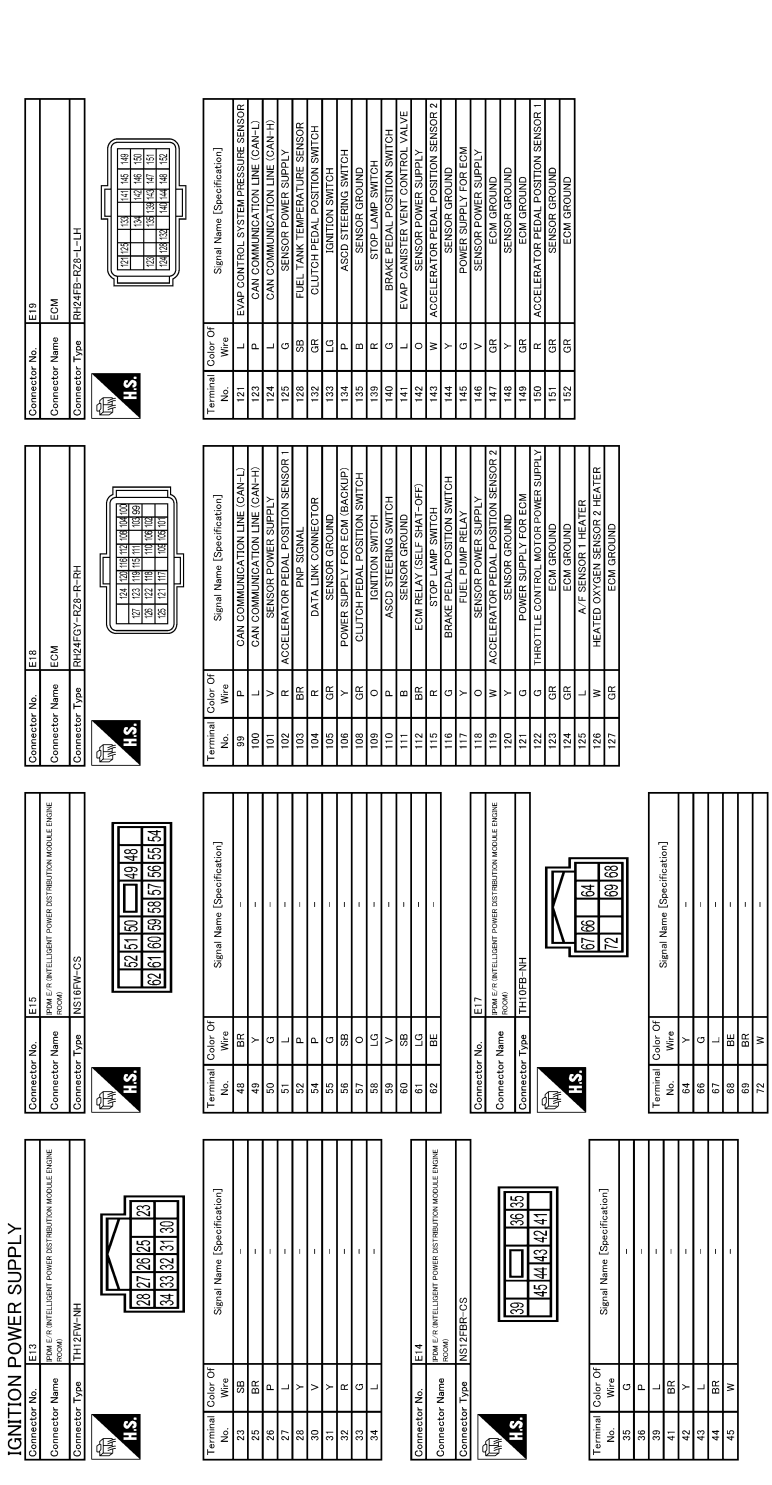
Terminal No.	Color Of Wire	Signal Name [Specification]
9	B/Y	–
14	R	–

Connector No.	E12
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS

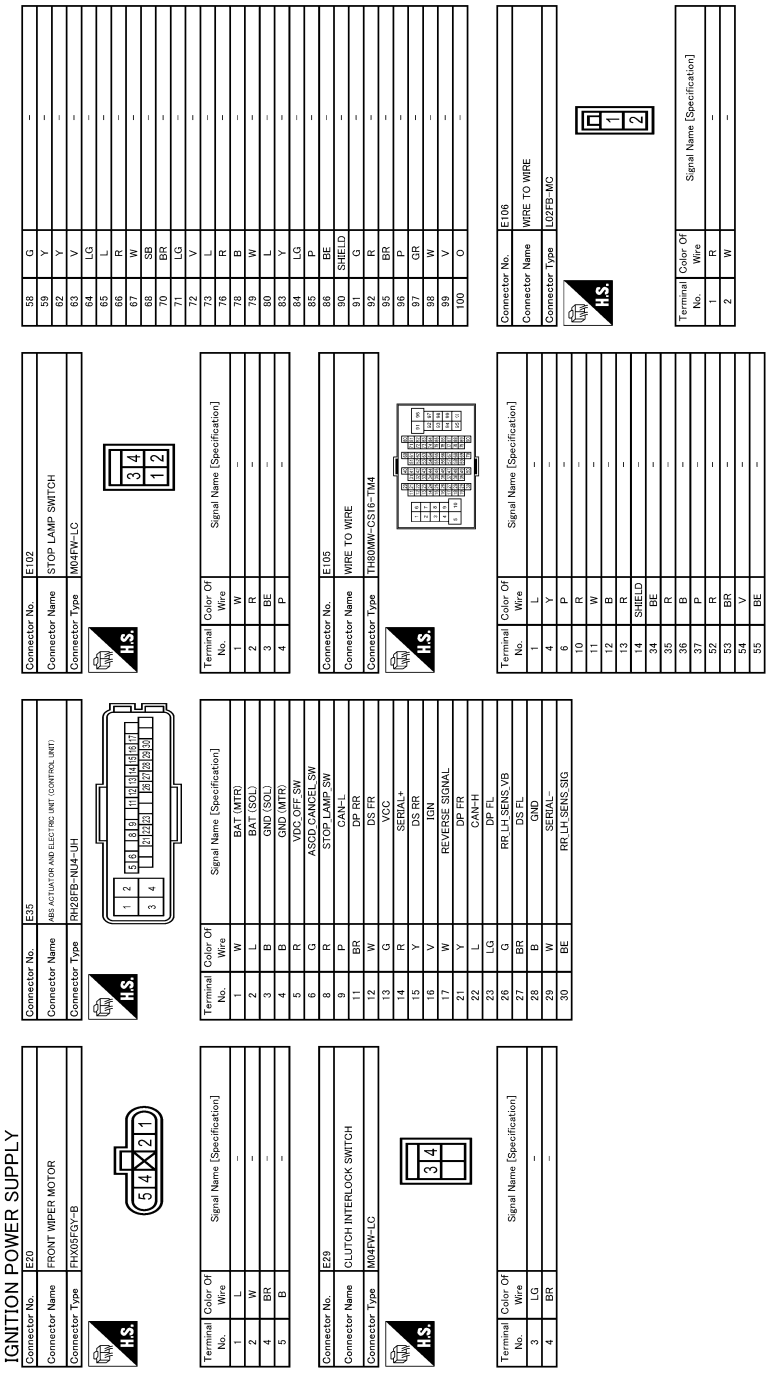
H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
18	GR	–
19	R	– [Without Front fog lamp]
19	W	– [With Front fog lamp]
20	G	– [Without Front fog lamp]
20	V	– [With Front fog lamp]

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JRMWG7066GB



JRMWG7067GB

IGNITION POWER SUPPLY

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	NS04MW-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	–
2	LG	–
3	BR	– [MR engine for NISMO RS]
3	L	– [MR engine except for NISMO RS]
4	P	–

Connector No.	E112
Connector Name	BRAKE PEDAL POSITION SWITCH
Connector Type	M02FBR-LC

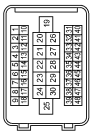
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BE	–
2	G	–

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA36FB-RS10-SJZ2

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	–
2	L	–
3	W	– [MR engine except for NISMO RS]
3	Y	– [MR engine for NISMO RS]
4	BG	– [MR engine for NISMO RS]
4	GR	– [MR engine except for NISMO RS]
5	LG	–
7	G	–
10	R	– [MR engine except for NISMO RS]
10	Y	– [MR engine for NISMO RS]
11	G	– [MR engine except for NISMO RS]
11	Y	– [MR engine for NISMO RS]
12	G	–
13	B	– [MR engine except for NISMO RS]
13	BG	– [MR engine for NISMO RS]
14	L	– [MR engine for NISMO RS]
14	V	– [MR engine except for NISMO RS]
15	BR	–
16	P	–
17	SB	–
18	G	–
19	G	–
20	BR	–
21	G	–
22	BR	– [MR engine for NISMO RS]
22	Y	– [MR engine except for NISMO RS]
23	B	–
24	R	–
25	R	–
26	B	–
27	B	–
28	R	–
29	W	–
30	GR	– [MR engine except for NISMO RS]
30	R	– [MR engine for NISMO RS]
31	BG	–
32	LG	–
33	BR	–
34	G	– [MR engine for NISMO RS]
34	P	– [MR engine except for NISMO RS]
37	G	– [Without Intelligent Key]
37	GR	– [With Intelligent Key]
38	R	–
39	GR	–
40	P	–
41	BR	– [MR engine for NISMO RS]
41	V	– [MR engine except for NISMO RS]
42	L	– [MR engine except for NISMO RS]
42	W	– [MR engine for NISMO RS]
43	L	– [MR engine for NISMO RS]
43	W	– [MR engine except for NISMO RS]
44	BR	– [MR engine except for NISMO RS]
44	G	– [MR engine for NISMO RS]
45	BR	–
46	R	–
47	Y	–
48	GR	– [With Intelligent Key]
48	Y	– [Without Intelligent Key]

Connector No.	F13
Connector Name	CONDENSER
Connector Type	M02FW-LC

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	B	–

Connector No.	F17
Connector Name	COMPRESSOR
Connector Type	RS01FB

H.S.

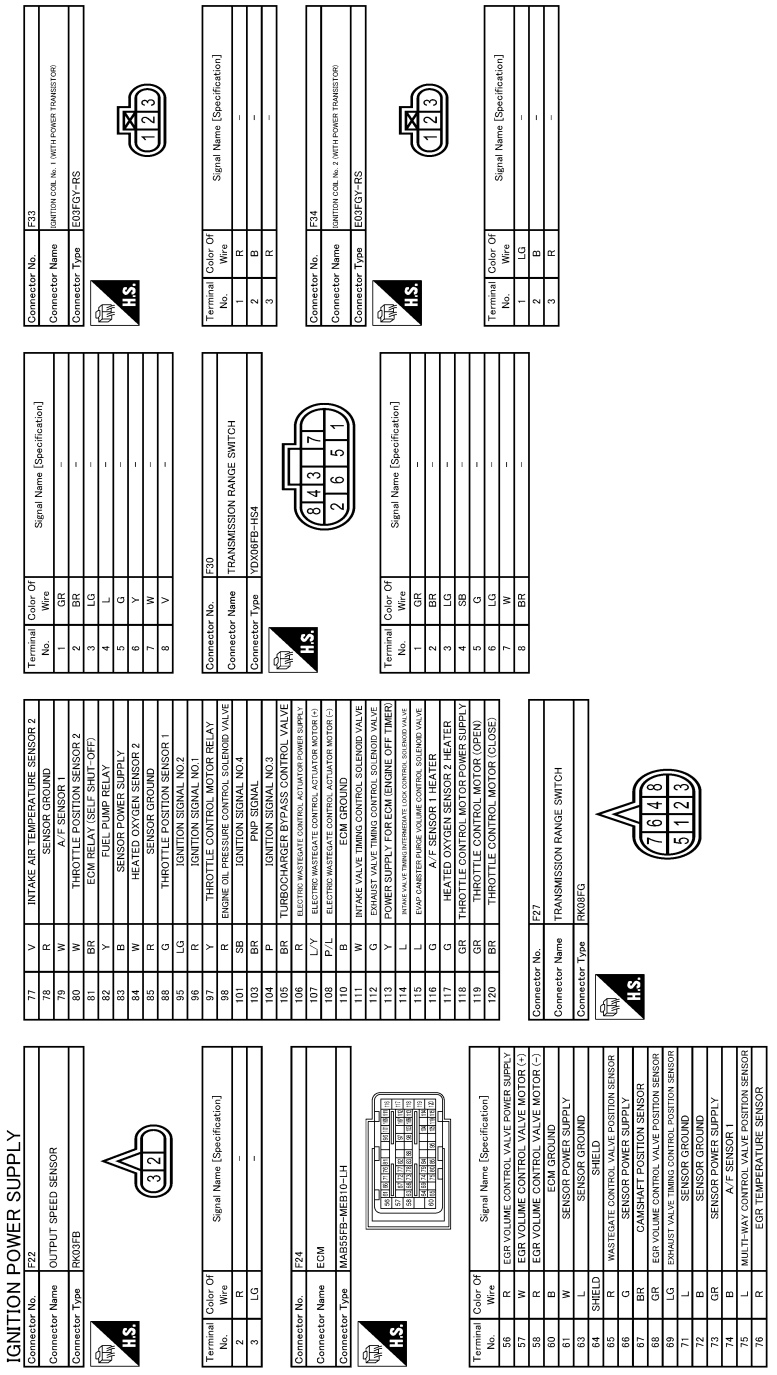
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	MAGNET CLUTCH POWER SUPPLY

Connector No.	F19
Connector Name	SECONDARY SPEED SENSOR
Connector Type	RK03FB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	–
2	R	–
3	LG	–

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JRMWG7069GB

IGNITION POWER SUPPLY

Connector No.	F35
Connector Name	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	–
2	B	–
3	R	–

Connector No.	F36
Connector Name	IGNITION COIL No. 4 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	–
2	B	–
3	R	–

Connector No.	F49
Connector Name	PARK / NEUTRAL POSITION SWITCH
Connector Type	FEA03FG-LC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	–
2	SB	–
3	BR	–

Connector No.	F55
Connector Name	PRIMARY SPEED SENSOR
Connector Type	RK03FB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	– [MR engine except for NISMO RS]
1	Y	– [MR engine for NISMO RS]
2	BG	–
3	LG	–

Connector No.	F56
Connector Name	PARK / NEUTRAL POSITION SWITCH
Connector Type	RK02FB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	–
2	SB	–

Connector No.	F57
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	–
2	SB	–

Connector No.	F77
Connector Name	INPUT SPEED SENSOR
Connector Type	RK03FB

H.S.

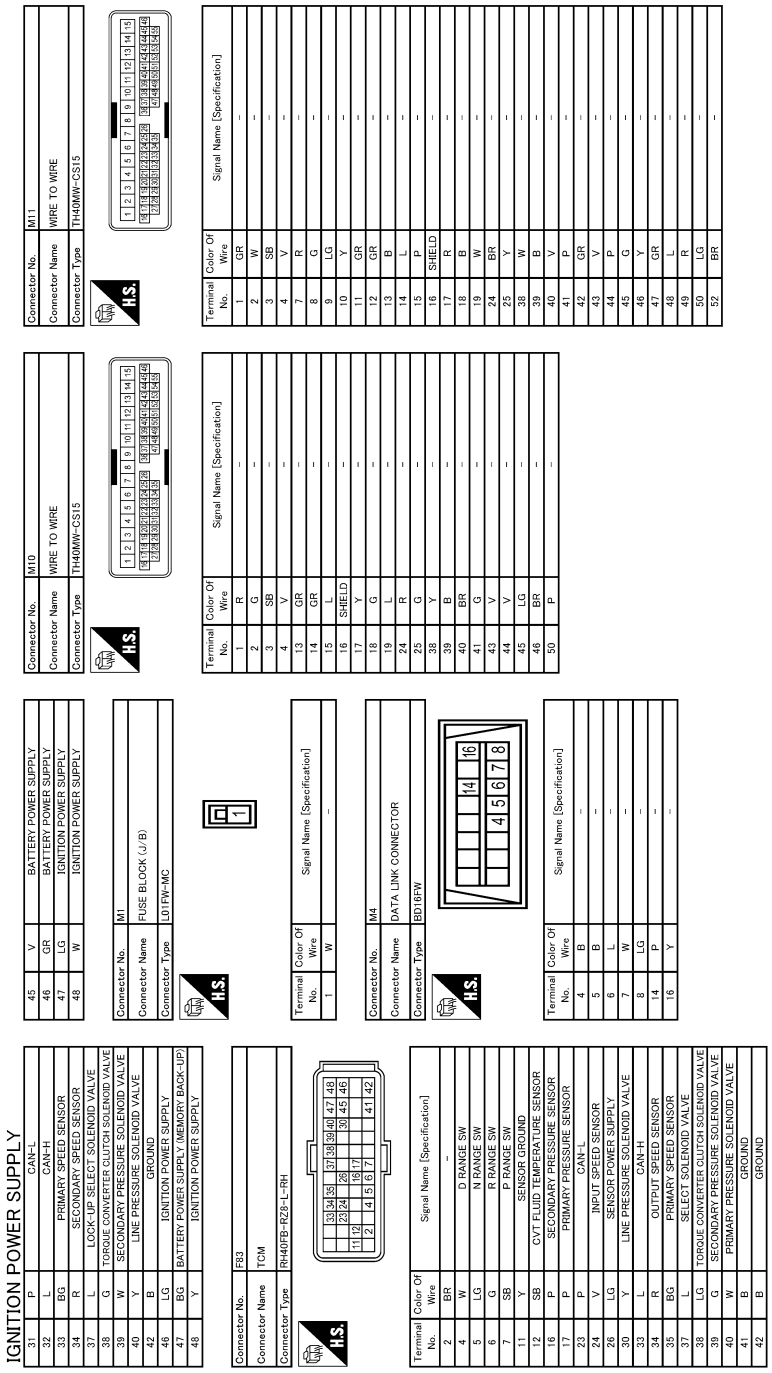
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	SENSOR GND
2	V	TURBIN SENSOR
3	LG	VIGN

Connector No.	F81
Connector Name	TCM
Connector Type	RH40FB-RZ8-L-RH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	R RANGE SW
2	Y	N RANGE SW
3	W	D RANGE SW
4	V	–
5	B	GROUND
8	BR	CLOCK (SEL 2)
9	G	CHIP SELECT (SEL 1)
10	W	DATE I/O (SEL 3)
11	L	P RANGE SW
13	SB	CVT FLUID TEMPERATURE SENSOR
15	P	SECONDARY PRESSURE SENSOR
25	Y	SENSOR GROUND
26	LG	SENSOR POWER SUPPLY
27	GR	STEP MOTOR D
28	V	STEP MOTOR C
29	BG	STEP MOTOR B
30	R	STEP MOTOR A

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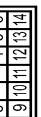


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IGNITION POWER SUPPLY

Connector No.	M27
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	WASHER (RR)
2	GR	OUTPUT 4
3	R	WASHER (FR)
4	W	IGN
5	BR	OUTPUT 3
6	B	GND
7	V	OUTPUT 3
8	L	OUTPUT 5
9	R	INPUT 2
10	Y	INPUT 4
11	P	INPUT 1
12	W	OUTPUT 1
13	LG	INPUT 5
14	G	OUTPUT 2

Connector No.	M30
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
2	P	CAN-L
4	LG	IGN
5	L	CAN-H

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
4	Y	VEHICLE SPEED SIGNAL (8 - PULSE)
5	G	PADDLE SHIFTER UP SWITCH SIGNAL
6	BR	FUEL LEVEL SENSOR SIGNAL
7	R	AIR BAG SIGNAL
8	P	-
9	W	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G	BRAKE FLUID LEVEL SWITCH SIGNAL
13	GR	ILLUMINATION CONTROL SIGNAL
14	R	MANUAL MODE SHIFT UP SIGNAL
15	L	ACC POWER SUPPLY
16	W	MANUAL MODE SHIFT DOWN SIGNAL
17	G	WASHER LEVEL SWITCH SIGNAL
18	R	SECURITY SIGNAL
19	GR	AMBIENT SENSOR SIGNAL
20	R	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	L	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
26	V	PADDLE SHIFTER DOWN SWITCH SIGNAL
27	LG	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	V	PASSENGER SEAT BELT WARNING SIGNAL
31	P	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
36	Y	MANUAL MODE SIGNAL
37	G	NON-MANUAL MODE SIGNAL
38	P	ALTERNATOR SIGNAL

Connector No.	M37
Connector Name	EPS CONTROL UNIT
Connector Type	TH08FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CAN-L
2	L	CAN-H
4	LG	IGN

Connector No.	M39
Connector Name	BLOWER MOTOR
Connector Type	TM02FW

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	L	-

Connector No.	M44
Connector Name	THERMO CONTROL AMP.
Connector Type	S06FW

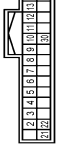
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BR	-
3	B	-
4	R	-
5	L	-

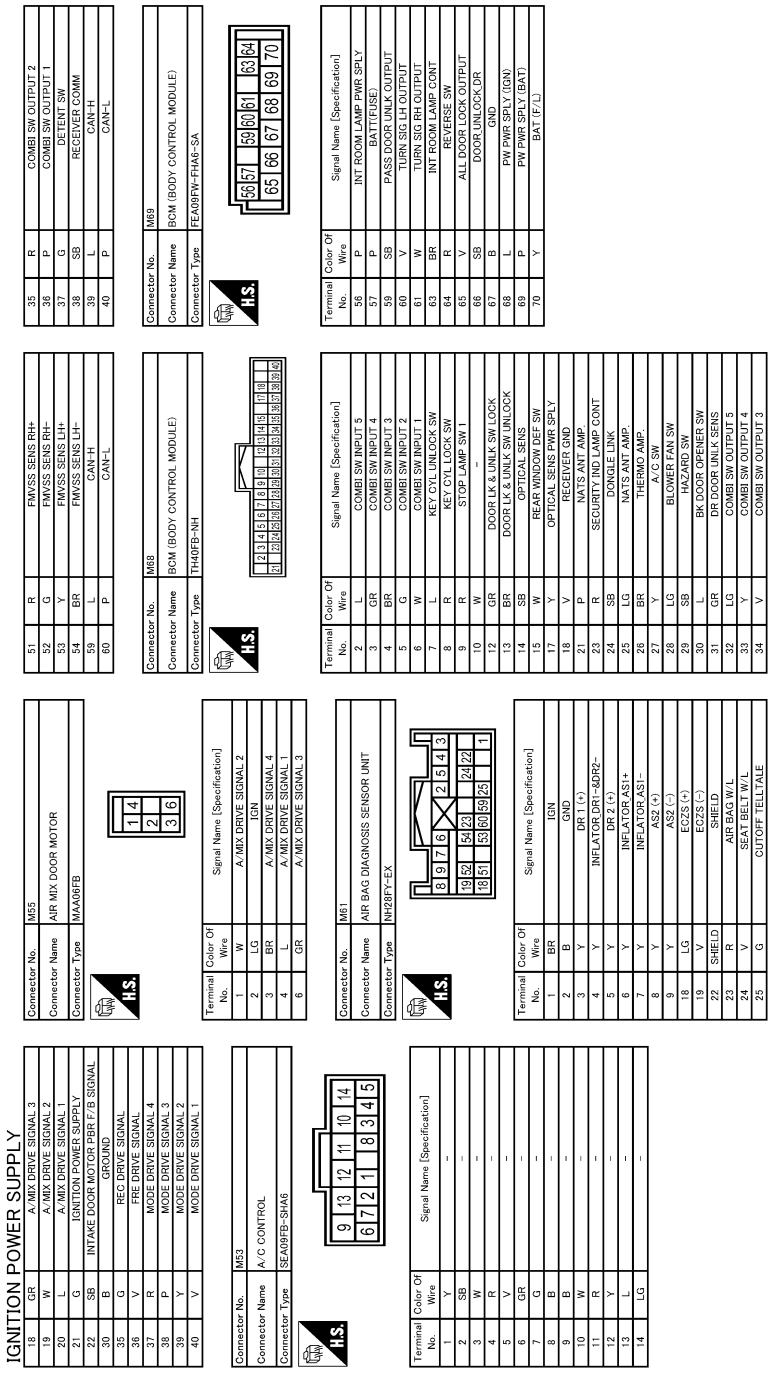
Connector No.	M50
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	IN-VEHICLE SENSOR SIGNAL
3	V	INTAKE SENSOR SIGNAL
4	GR	AMBIENT SENSOR SIGNAL
5	P	SUNLOAD SENSOR SIGNAL
6	L	CAN-H
7	P	CAN-L
8	W	INTAKE DOOR MOTOR PBR POWER SUPPLY
9	P	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
10	R	SENSOR GROUND
11	LG	IGN-1
12	V	BATTERY POWER SUPPLY
13	GR	POWER TRANSISTOR CONTROL SIGNAL
14	LG	BLOWER FAN ON SIGNAL
15	Y	A/C ON SIGNAL
17	BR	A/MIX DRIVE SIGNAL 4

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JRMWG7073GB

IGNITION POWER SUPPLY

Connector No.	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
72	SB	A/C IND OUTPUT
75	LG	DR DOOR REQ SW
76	LG	PASS DOOR REQ SW
78	P	DRIVER DOOR ANT+
79	V	DRIVER DOOR ANT–
80	BR	PASS DOOR ANT+
81	G	PASS DOOR ANT–
82	W	REAR BMPR ANT+
83	B	REAR BMPR ANT–
84	BR	ROOM ANT 1+
85	GR	ROOM ANT 1–
86	G	ROOM ANT 2+
87	R	ROOM ANT 2–
88	V	LUGGAGE ROOM ANT+
89	LG	LUGGAGE ROOM ANT–
90	W	PUSH–BTN IGN SW ILL PWR
91	V	ACC / ON IND
92	R	PUSH–BTN IGN SW ILL GND
93	GR	I-KEY WARN BUZZER
96	BR	ACC RELAY CONT
97	SB	STARTER RELAY CONT
98	P	IGN RELAY (IPDM E/R) CONT
99	R	IGN RELAY (F/B) CONT
100	P	PUSH SW
101	Y	CLUTCH INTERLOCK SW
102	L	NEUTRAL SW
103	G	FR DEFROST SW
104	SB	CVT SHIFT SELECT PWR SPLY
105	V	STOP LAMP SW 2
106	Y	BLWR RELAY CONT

Connector No.	M71
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2-LC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	–
2	LG	–
3	G	–
5	V	–

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	–
4	V	–
6	P	–
10	R	–
11	R	–
12	LG	–
13	V	–
14	SHIELD	–
34	LG	–
35	SB	–
36	B	–
37	P	–
52	R	–
53	L	–
54	SB	–
55	P	–
58	LG	–
59	G	–
62	Y	–
63	W	–
64	G	–
65	GR	–
66	Y	–
67	V	–
68	R	–
70	V	–
71	R	–
72	GR	–
73	G	–
76	W	–
78	LG	–
79	V	–
80	LG	–
83	P	–
84	G	–
85	BR	–
86	LG	–
90	SHIELD	–
91	Y	–
92	BR	–
95	Y	–
96	L	–
97	GR	–
98	G	–
99	R	–
100	LG	–

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	W	–

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	–
3	W	–
5	BR	–
6	L	–
10	V	–
11	LG	–

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	M04FW-LC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	–
2	GR	–
3	B	–
4	Y	–

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IGNITION POWER SUPPLY

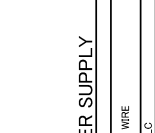
Connector No.	M89
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2		

Connector No.	M90
Connector Name	MULTI DISPLAY UNIT
Connector Type	TH12FW-NH

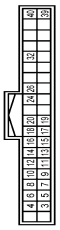
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY POWER SUPPLY
2	V	ILLUMINATION SIGNAL
5	GR	ILLUMINATION SIGNAL GROUND
6	L	CAN-H
7	LG	IGNITION SIGNAL
10	B	GND
11	B	GND
12	P	CAN-L

Connector No.	M98
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH

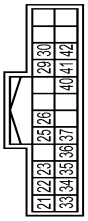
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SHIELD	SHIELD
4	B	CAMERA IMAGE SIGNAL
5	LG	FRONT CAMERA GROUND
6	R	FRONT CAMERA POWER SUPPLY
7	SHIELD	SHIELD
8	V	FRONT CAMERA IMAGE SIGNAL
9	G	SIDE CAMERA PASSENGER SIDE GROUND
10	L	SIDE CAMERA PASSENGER SIDE POWER SUPPLY
11	SHIELD	SHIELD
12	Y	SIDE CAMERA PASSENGER SIDE IMAGE SIGNAL
13	B	SIDE CAMERA DRIVER SIDE GROUND
14	W	SIDE CAMERA DRIVER SIDE POWER SUPPLY
15	SHIELD	SHIELD
16	R	SIDE CAMERA DRIVER SIDE IMAGE SIGNAL
17	L	REAR CAMERA GROUND
18	LG	REAR CAMERA POWER SUPPLY
19	SHIELD	SHIELD
20	V	REAR CAMERA IMAGE SIGNAL
24	P	CAN-L
26	L	CAN-H
32	G	REVERSE SIGNAL
39	B	GROUND
40	LG	IGNITION SIGNAL

Connector No.	M109
Connector Name	NAVI CONTROL UNIT
Connector Type	TH24FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
21	G	AUX AUDIO SIGNAL RH
22	Y	AUX AUDIO SIGNAL GROUND
23	L	AUX AUDIO SIGNAL LH
25	G	REVERSE SIGNAL
26	BR	SOUND SIGNAL WOOFER +
29	Y	SOUND SIGNAL WOOFER –
30	V	ILLUMINATION CONTROL SIGNAL
33	GR	ILLUMINATION CONTROL SIGNAL GROUND
34	W	MICROPHONE SIGNAL
35	B	MICROPHONE VCC
36	SHIELD	MICROPHONE GND
37	SHIELD	SHIELD
40	LG	IGNITION SIGNAL
41	B	COMPOSITE IMAGE SIGNAL
42	SHIELD	SHIELD

Connector No.	M342
Connector Name	MODE DOOR MOTOR
Connector Type	98192-1001

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	–	MODE DRIVE SIGNAL 1
2	–	MODE DRIVE SIGNAL 2
3	–	MODE DRIVE SIGNAL 3
4	–	MODE DRIVE SIGNAL 4
5	–	IGNITION POWER SUPPLY

Connector No.	M343
Connector Name	WIRE TO WIRE
Connector Type	M04MW

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	G	–
3	B	–
4	Y	–

Connector No.	M344
Connector Name	POWER TRANSISTOR
Connector Type	TRW 8512100-F

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	BLOWER MOTOR CONTROL OUTPUT
2	G	POWER TRANSISTOR CONTROL SIGNAL
3	B	GROUND
4	Y	IGNITION POWER SUPPLY

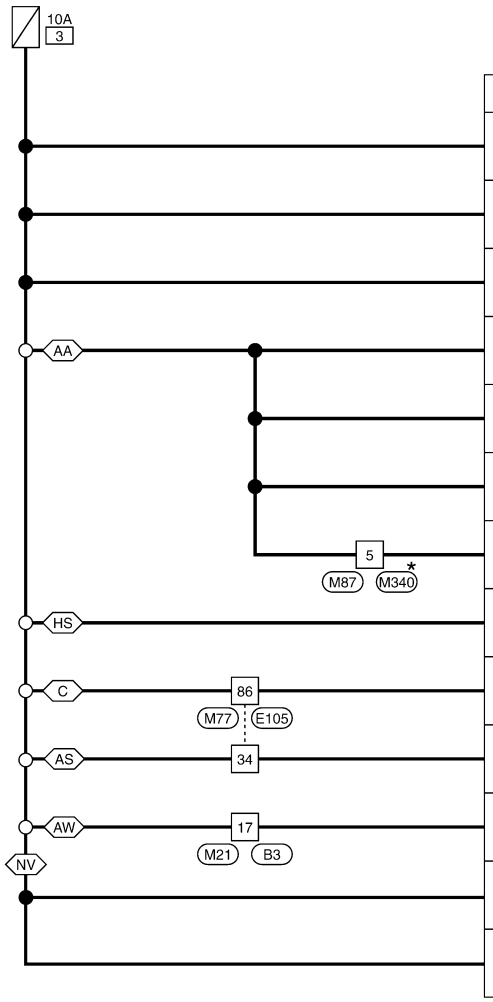
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Wiring Diagram - IGNITION POWER SUPPLY FUSE No.3 -

INFOID:0000000011462001

IGNITION POWER SUPPLY FUSE No. 3

AW : AWD models
C : With CVT
AA : With automatic A/C
HS : With heated seat
AS : With ASCD
NV : With NAVI



Connector No.	Terminal No.	Connect to
M4	8	DATA LINK CONNECTOR
M30	4	STEERING ANGLE SENSOR
M37	4	EPS CONTROL UNIT
M50	11	A/C AUTO AMP.
M55	2	AIR MIX DOOR MOTOR
M90	7	MULTI DISPLAY UNIT
M342*	5	MODE DOOR MOTOR
M71	2	HEATED SEAT RELAY
E102	3	STOP LAMP SWITCH
E112	1	BRAKE PEDAL POSITION SWITCH
B47	3	AWD CONTROL MODULE
M109	40	NAVI CONTROL UNIT
M98	40	AROUND VIEW MONITOR CONTROL UNIT

* : This connector is not shown in "Harness Layout".

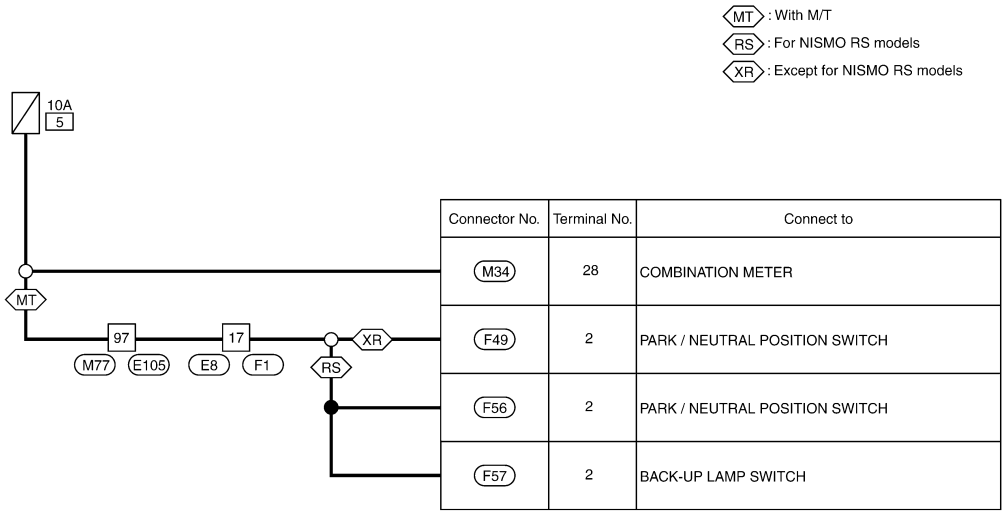
2014/09/22

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Wiring Diagram - IGNITION POWER SUPPLY FUSE No.5 -

INFOID:0000000011462002

IGNITION POWER SUPPLY FUSE No. 5



Connector No.	Terminal No.	Connect to
M34	28	COMBINATION METER
F49	2	PARK / NEUTRAL POSITION SWITCH
F56	2	PARK / NEUTRAL POSITION SWITCH
F57	2	BACK-UP LAMP SWITCH

2014/09/22

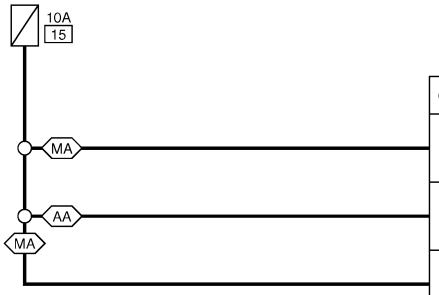
JRMWG7077GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No.15 -

INFOID:0000000011462003

IGNITION POWER SUPPLY FUSE No. 15

AA : With auto A/C
MA : With manual A/C



Connector No.	Terminal No.	Connect to
M44	1	THERMO CONTROL AMP.
M50	21	A/C AUTO AMP.
M53	7	A/C CONTROL

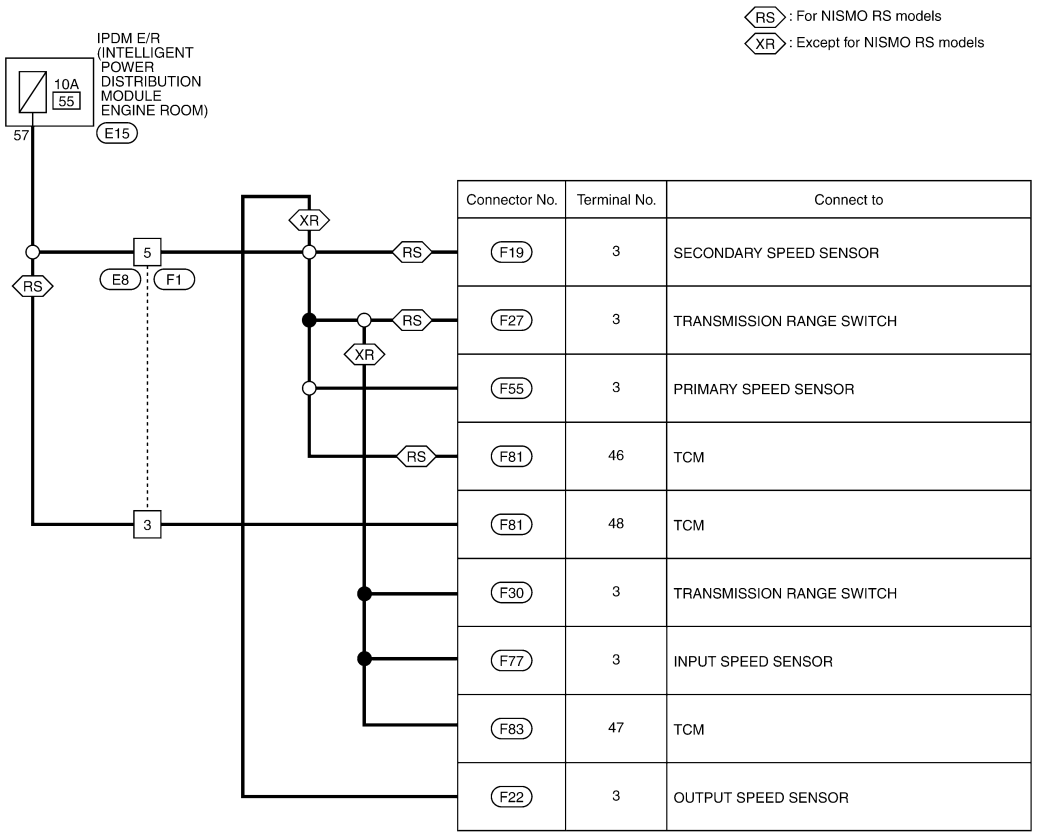
2010/08/30

JCMWA6152GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No.55 -

INFOID:0000000011462004

IGNITION POWER SUPPLY FUSE No. 55



Connector No.	Terminal No.	Connect to
F19	3	SECONDARY SPEED SENSOR
F27	3	TRANSMISSION RANGE SWITCH
F55	3	PRIMARY SPEED SENSOR
F81	46	TCM
F81	48	TCM
F30	3	TRANSMISSION RANGE SWITCH
F77	3	INPUT SPEED SENSOR
F83	47	TCM
F22	3	OUTPUT SPEED SENSOR

2014/09/22

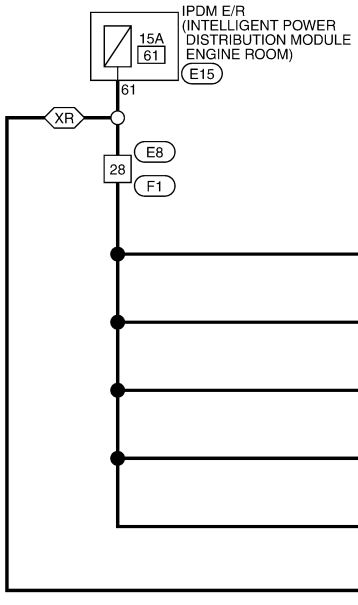
JRMWG7078GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No.61 -

INFOID:0000000011462005

IGNITION POWER SUPPLY FUSE No. 61

XR : Except for NISMO RS models



Connector No.	Terminal No.	Connect to
F13	1	CONDENSER
F33	3	IGNITION COIL No. 1 (WITH POWER TRANSISTOR)
F34	3	IGNITION COIL No. 2 (WITH POWER TRANSISTOR)
F35	3	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)
F36	3	IGNITION COIL No. 4 (WITH POWER TRANSISTOR)
E19	133	ECM

2014/09/22

JRMWG7079GB

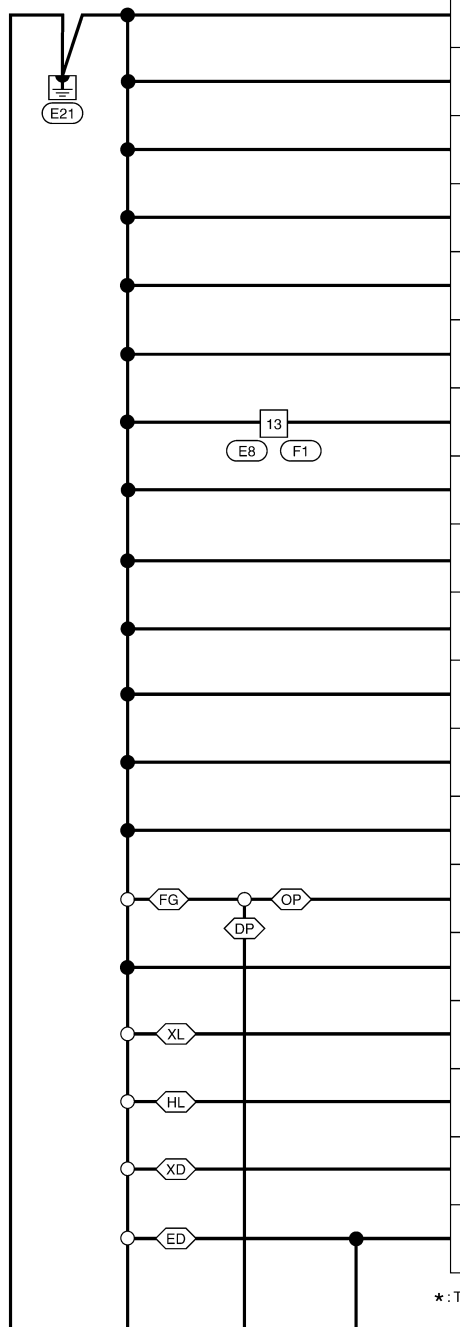
GROUND DISTRIBUTION

Engine Room Harness

INFOID:0000000011773209

ENGINE ROOM HARNESS

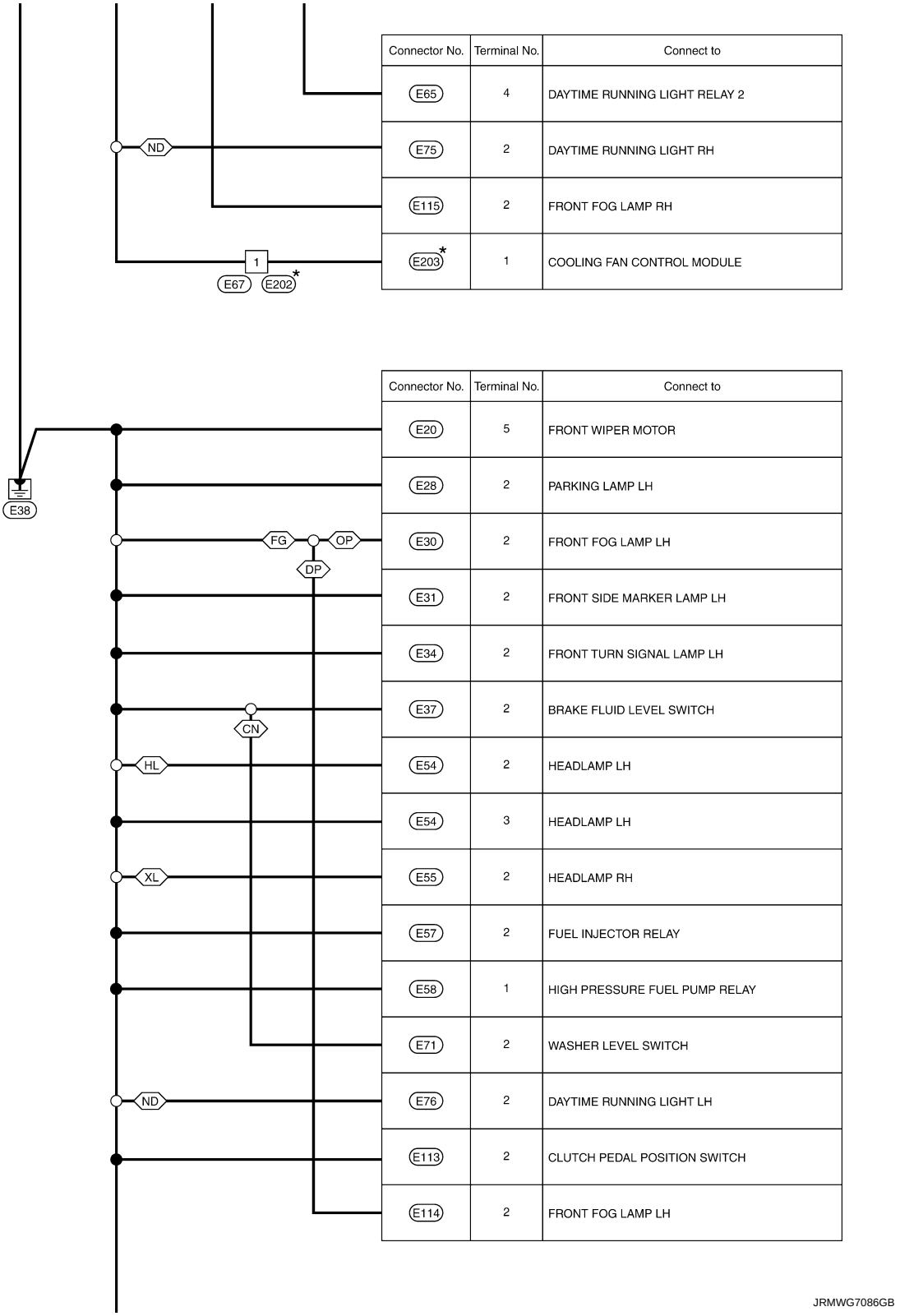
XR : Except for NISMO RS models
RS : For NISMO RS models
DP : With dealer option
OP : Without dealer option
CN : For Canada
XL : With xenon lamp
HL : With halogen lamp
OD : Without daytime running light system
FG : With front fog lamp
ED : Except for NISMO models with daytime running light system
ND : For NISMO models with daytime running light system
XD : For NISMO models with daytime running light system and without daytime running light system



Connector No.	Terminal No.	Connect to
E7	2	HORN HIGH
E11	9	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E12	18	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E18	123	ECM
E18	124	ECM
E18	127	ECM
F24	110	ECM
E19	147	ECM
E19	149	ECM
E19	152	ECM
E32	2	FRONT SIDE MARKER LAMP RH
E44	2	PARKING LAMP RH
E47	2	FRONT TURN SIGNAL LAMP RH
E48	2	FRONT FOG LAMP RH
E51	2	HORN LOW
E54	2	HEADLAMP LH
E55	2	HEADLAMP RH
E55	3	HEADLAMP RH
E65	3	DAYTIME RUNNING LIGHT RELAY 2

∗ : This connector is not shown in "Harness Layout".

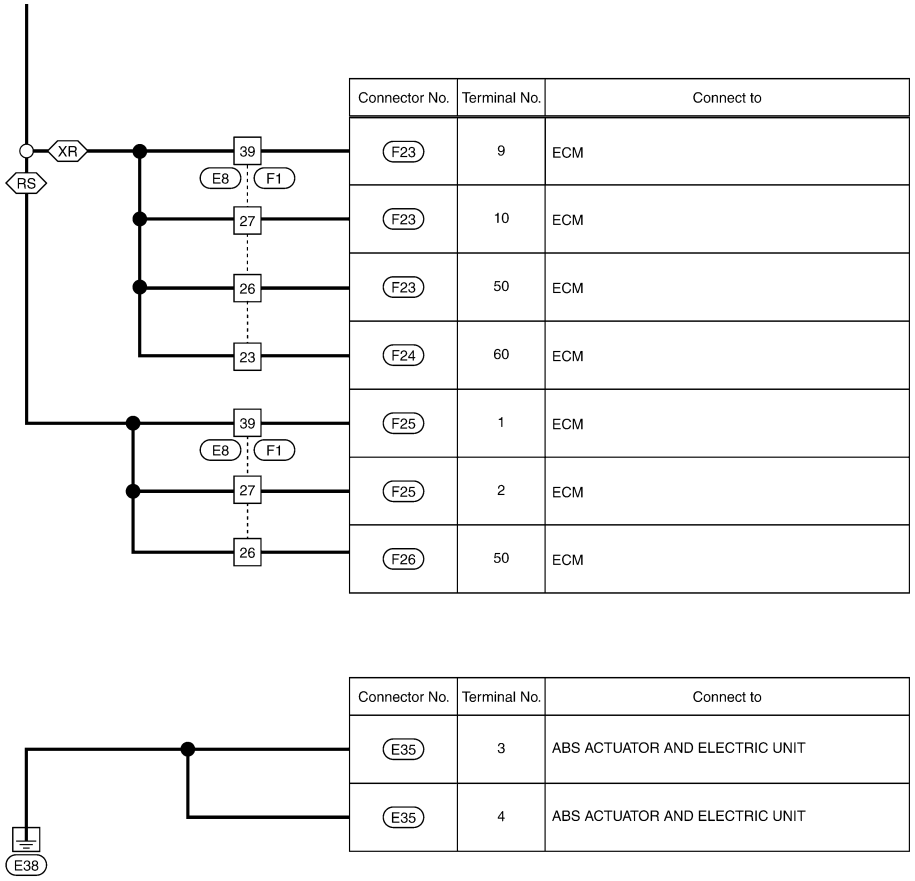
JRMWG7085GB



Connector No.	Terminal No.	Connect to
E65	4	DAYTIME RUNNING LIGHT RELAY 2
E75	2	DAYTIME RUNNING LIGHT RH
E115	2	FRONT FOG LAMP RH
E203*	1	COOLING FAN CONTROL MODULE

Connector No.	Terminal No.	Connect to
E20	5	FRONT WIPER MOTOR
E28	2	PARKING LAMP LH
E30	2	FRONT FOG LAMP LH
E31	2	FRONT SIDE MARKER LAMP LH
E34	2	FRONT TURN SIGNAL LAMP LH
E37	2	BRAKE FLUID LEVEL SWITCH
E54	2	HEADLAMP LH
E54	3	HEADLAMP LH
E55	2	HEADLAMP RH
E57	2	FUEL INJECTOR RELAY
E58	1	HIGH PRESSURE FUEL PUMP RELAY
E71	2	WASHER LEVEL SWITCH
E76	2	DAYTIME RUNNING LIGHT LH
E113	2	CLUTCH PEDAL POSITION SWITCH
E114	2	FRONT FOG LAMP LH

JRMWG7086GB



Connector No.	Terminal No.	Connect to
F23	9	ECM
F23	10	ECM
F23	50	ECM
F24	60	ECM
F25	1	ECM
F25	2	ECM
F26	50	ECM

Connector No.	Terminal No.	Connect to
E35	3	ABS ACTUATOR AND ELECTRIC UNIT
E35	4	ABS ACTUATOR AND ELECTRIC UNIT

2014/09/22

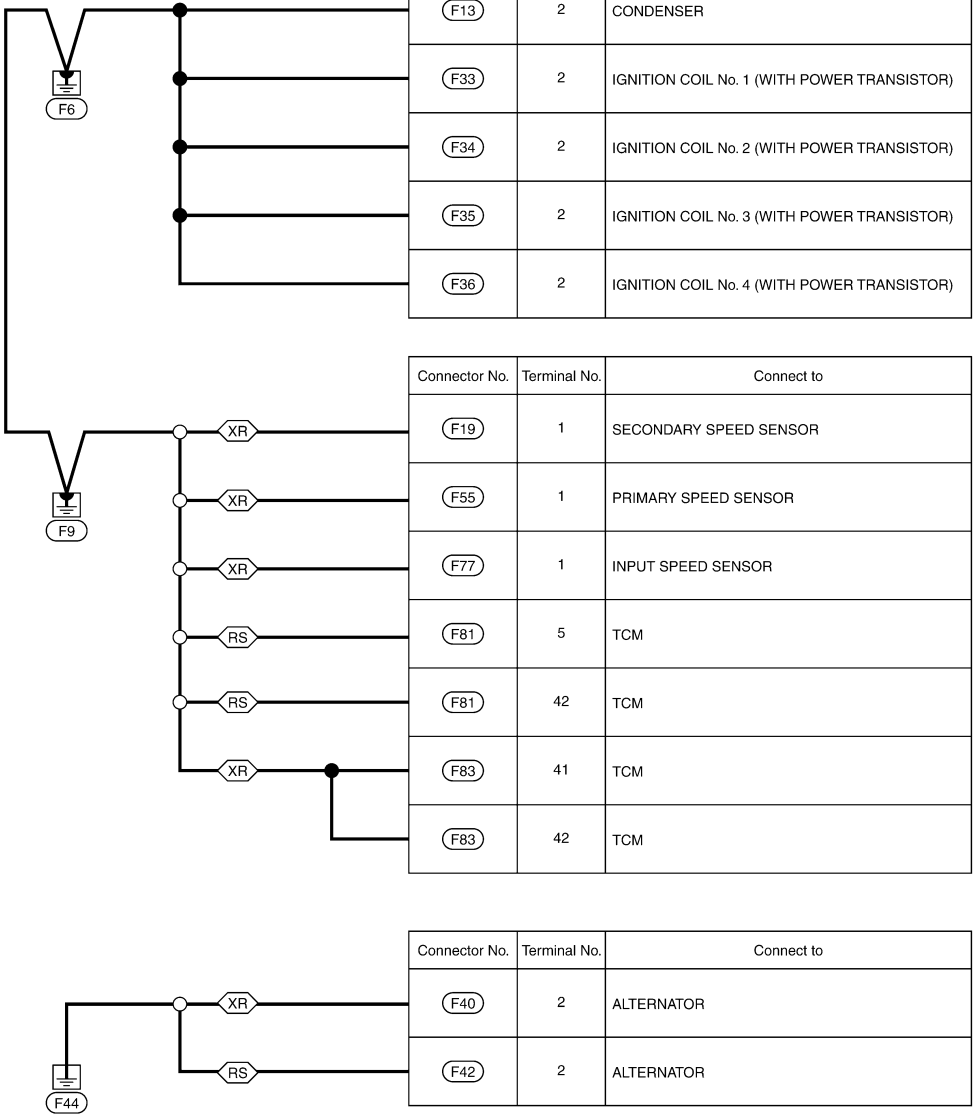
JRMWG7087GB

Engine Control Harness

INFOID:0000000011773219

ENGINE CONTROL HARNESS

XR : Except for NISMO RS models
RS : For NISMO RS models



Connector No.	Terminal No.	Connect to
F13	2	CONDENSER
F33	2	IGNITION COIL No. 1 (WITH POWER TRANSISTOR)
F34	2	IGNITION COIL No. 2 (WITH POWER TRANSISTOR)
F35	2	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)
F36	2	IGNITION COIL No. 4 (WITH POWER TRANSISTOR)

Connector No.	Terminal No.	Connect to
F19	1	SECONDARY SPEED SENSOR
F55	1	PRIMARY SPEED SENSOR
F77	1	INPUT SPEED SENSOR
F81	5	TCM
F81	42	TCM
F83	41	TCM
F83	42	TCM

Connector No.	Terminal No.	Connect to
F40	2	ALTERNATOR
F42	2	ALTERNATOR

2014/09/22

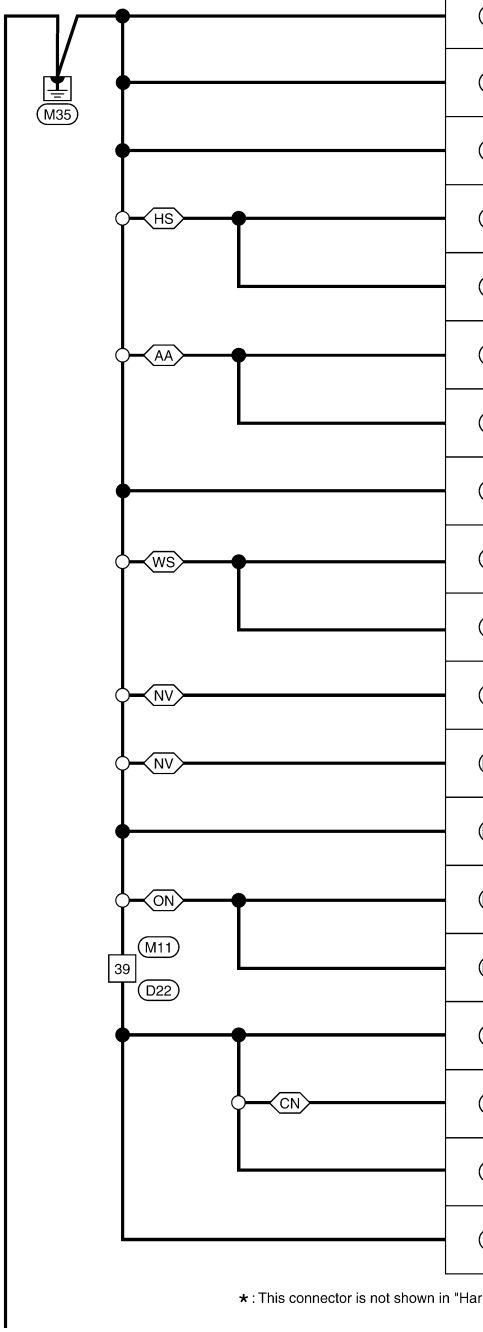
JRMWG7088GB

Main Harness

INFOID:0000000011773210

MAIN HARNESS

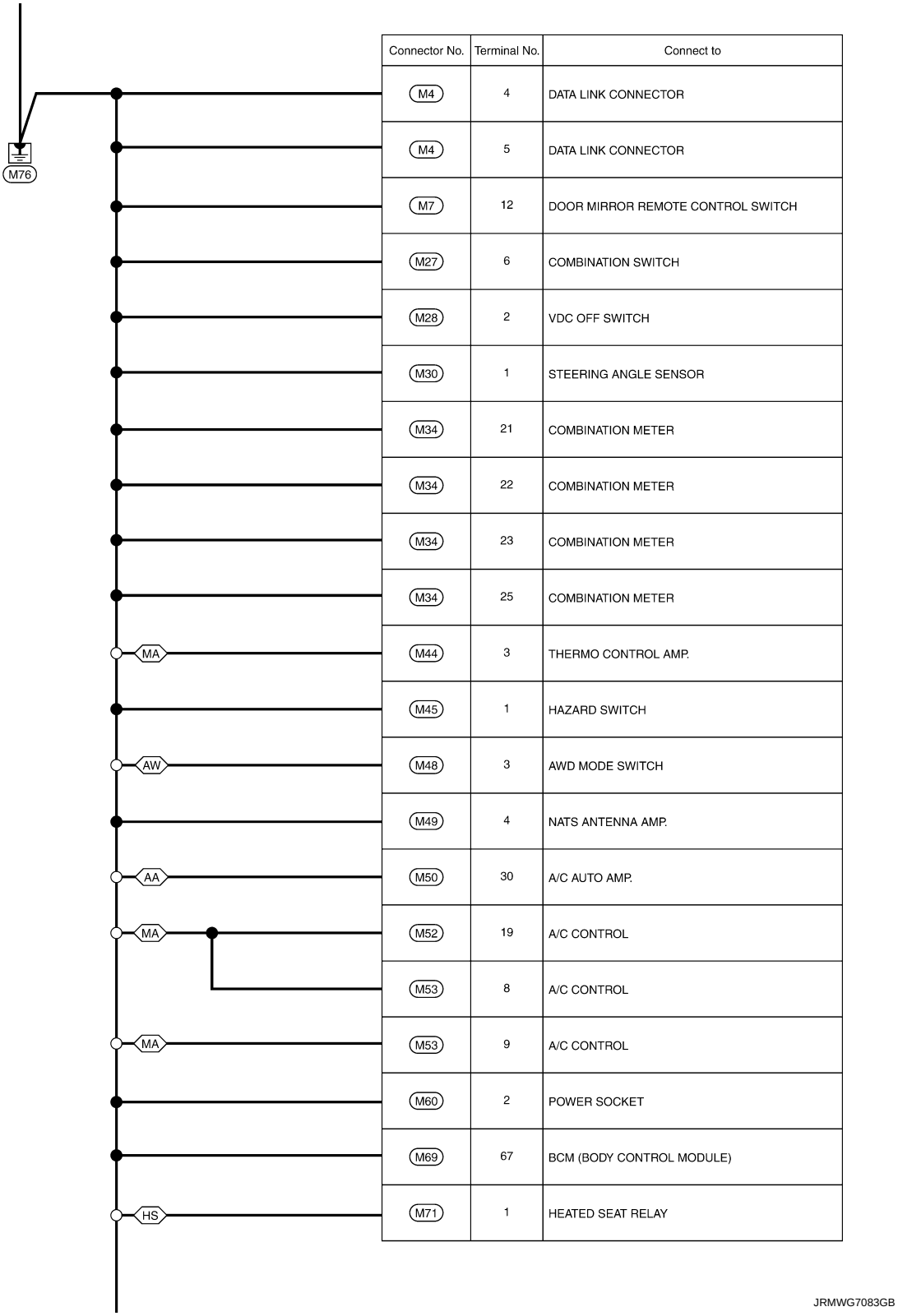
AA : With automatic A/C
NV : With NAVI
MA : With manual A/C
HS : With heated seat
ON : Without NAVI
AW : AWD models
WR : With sunroof
CN : For Canada
WS : With paddle shifter
C : With CVT



Connector No.	Terminal No.	Connect to
M27	6	COMBINATION SWITCH
M45	1	HAZARD SWITCH
M61	2	AIR BAG DIAGNOSIS SENSOR UNIT
M80	4	HEATED SEAT SWITCH LH
M81	4	HEATED SEAT SWITCH RH
M90	10	MULTI DISPLAY UNIT
M90	11	MULTI DISPLAY UNIT
M95	2	GLOVE BOX LAMP
M96	1	PADDLE SHIFTER (SHIFT-DOWN)
M97	1	PADDLE SHIFTER (SHIFT-UP)
M98	39	AROUND VIEW MONITOR CONTROL UNIT
M108	20	NAVI CONTROL UNIT
M126	2	FRONT PASSENGER AIR BAG OFF INDICATOR
M129	20	AUDIO UNIT
M130	44	AUDIO UNIT
D30	2	DOOR MIRROR (DRIVER SIDE)
D30	4	DOOR MIRROR (DRIVER SIDE)
D34	1	FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
D38	4	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)

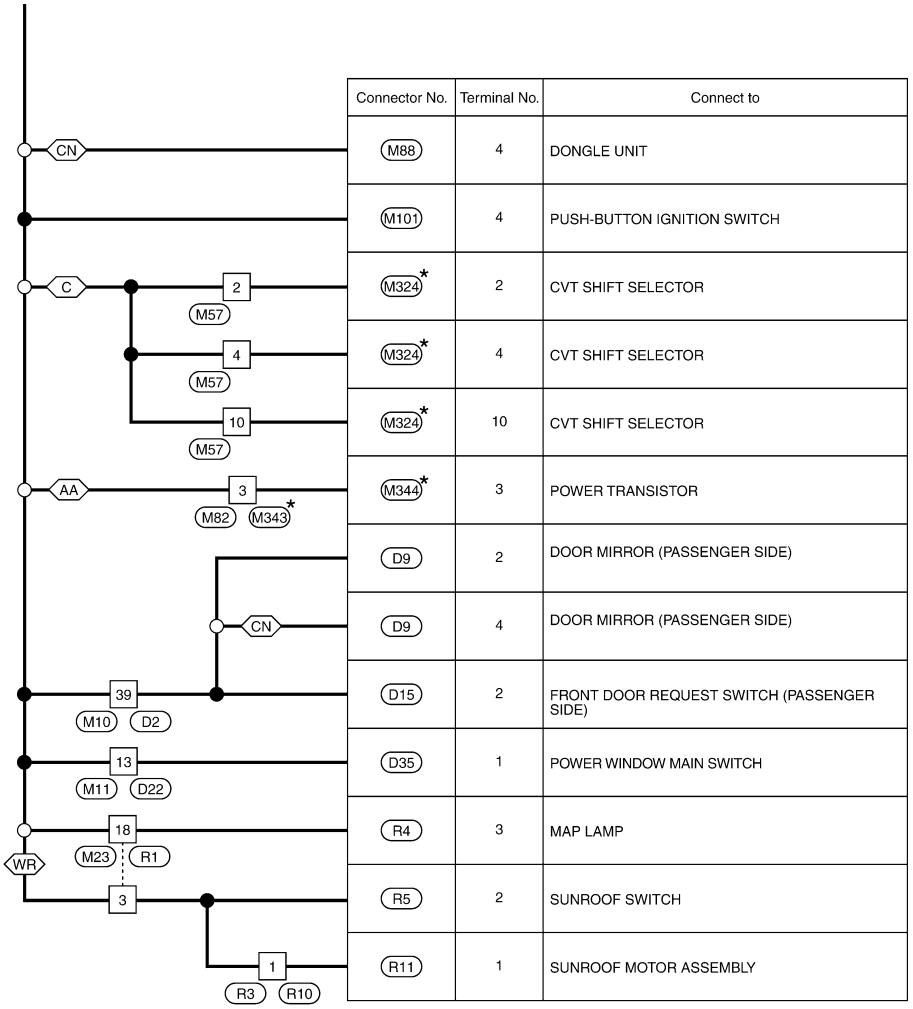
★ : This connector is not shown in "Harness Layout".

JRMWG7082GB



Connector No.	Terminal No.	Connect to
M4	4	DATA LINK CONNECTOR
M4	5	DATA LINK CONNECTOR
M7	12	DOOR MIRROR REMOTE CONTROL SWITCH
M27	6	COMBINATION SWITCH
M28	2	VDC OFF SWITCH
M30	1	STEERING ANGLE SENSOR
M34	21	COMBINATION METER
M34	22	COMBINATION METER
M34	23	COMBINATION METER
M34	25	COMBINATION METER
M44	3	THERMO CONTROL AMP.
M45	1	HAZARD SWITCH
M48	3	AWD MODE SWITCH
M49	4	NATS ANTENNA AMP.
M50	30	A/C AUTO AMP.
M52	19	A/C CONTROL
M53	8	A/C CONTROL
M53	9	A/C CONTROL
M60	2	POWER SOCKET
M69	67	BCM (BODY CONTROL MODULE)
M71	1	HEATED SEAT RELAY

JRMWG7083GB



Connector No.	Terminal No.	Connect to
M88	4	DONGLE UNIT
M101	4	PUSH-BUTTON IGNITION SWITCH
M324*	2	CVT SHIFT SELECTOR
M324*	4	CVT SHIFT SELECTOR
M324*	10	CVT SHIFT SELECTOR
M344*	3	POWER TRANSISTOR
D9	2	DOOR MIRROR (PASSENGER SIDE)
D9	4	DOOR MIRROR (PASSENGER SIDE)
D15	2	FRONT DOOR REQUEST SWITCH (PASSENGER SIDE)
D35	1	POWER WINDOW MAIN SWITCH
R4	3	MAP LAMP
R5	2	SUNROOF SWITCH
R11	1	SUNROOF MOTOR ASSEMBLY



Connector No.	Terminal No.	Connect to
M38	10	EPS CONTROL UNIT

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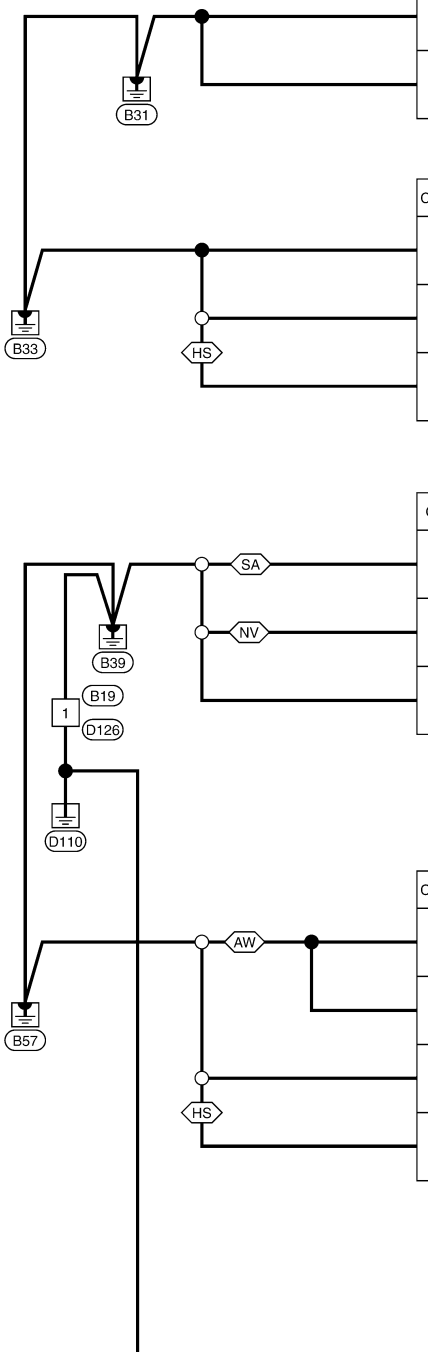
JRMWG7084GB

Body Harness

INFOID:0000000011773211

BODY HARNESS

HS : With heated seat
NV : With NAVI
SA : With satellite radio
AW : AWD models



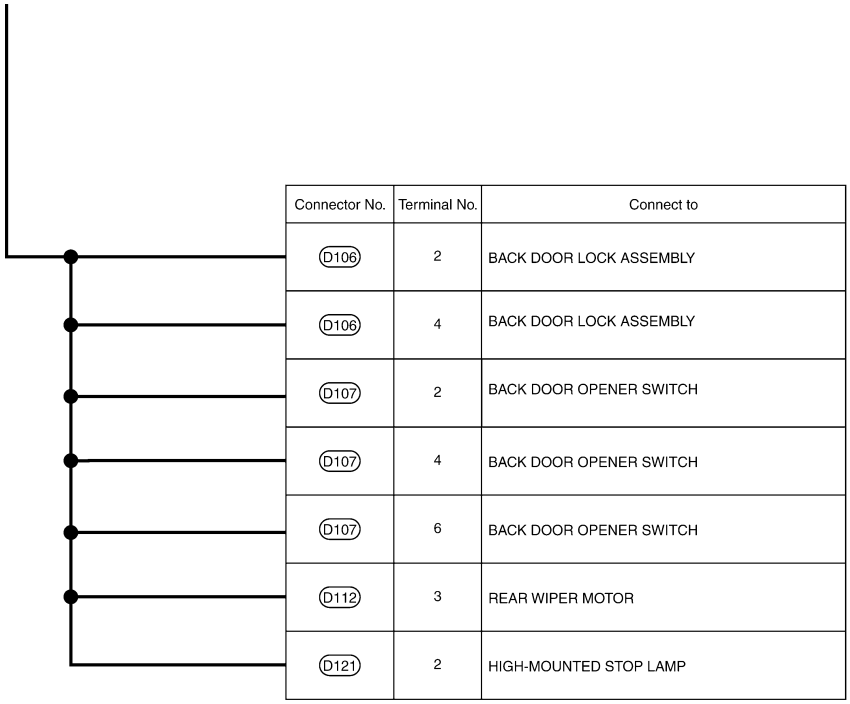
Connector No.	Terminal No.	Connect to
B46	3	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
B59	3	REAR COMBINATION LAMP RH

Connector No.	Terminal No.	Connect to
B24	5	OCCUPANT DETECTION SYSTEM CONTROL UNIT
B51	2	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
B55	40	SEAT HEATER

Connector No.	Terminal No.	Connect to
B69	15	SATELLITE RADIO TUNER
B74	3	WOOFER
B80	3	REAR COMBINATION LAMP LH

Connector No.	Terminal No.	Connect to
B47	10	AWD CONTROL MODULE
B47	11	AWD CONTROL MODULE
B50	2	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
B54	40	SEAT HEATER

JRMWG7089GB



Connector No.	Terminal No.	Connect to
D106	2	BACK DOOR LOCK ASSEMBLY
D106	4	BACK DOOR LOCK ASSEMBLY
D107	2	BACK DOOR OPENER SWITCH
D107	4	BACK DOOR OPENER SWITCH
D107	6	BACK DOOR OPENER SWITCH
D112	3	REAR WIPER MOTOR
D121	2	HIGH-MOUNTED STOP LAMP

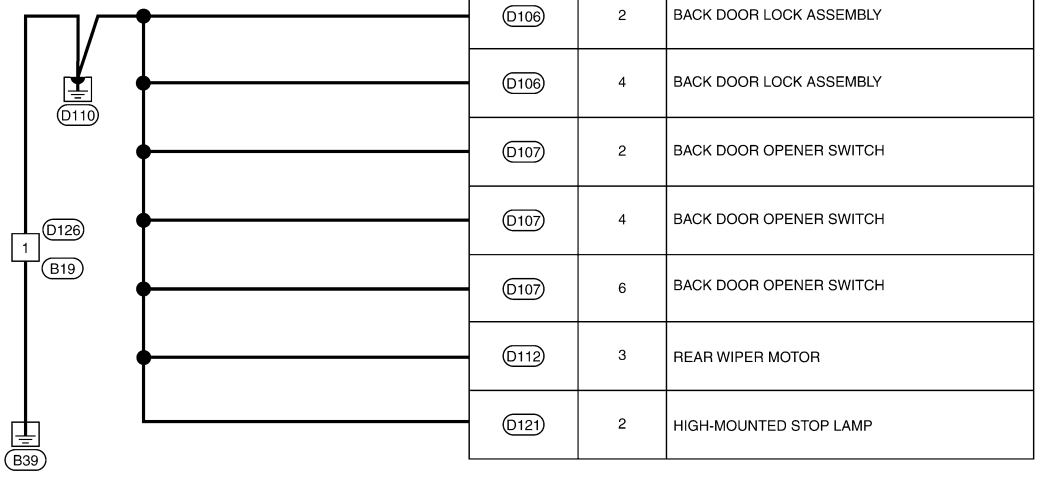
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JRMWG7090GB

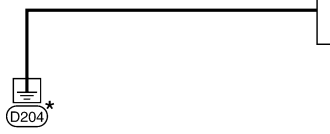
Door Harness

INFOID:0000000011773212

DOOR HARNESS



Connector No.	Terminal No.	Connect to
D106	2	BACK DOOR LOCK ASSEMBLY
D106	4	BACK DOOR LOCK ASSEMBLY
D107	2	BACK DOOR OPENER SWITCH
D107	4	BACK DOOR OPENER SWITCH
D107	6	BACK DOOR OPENER SWITCH
D112	3	REAR WIPER MOTOR
D121	2	HIGH-MOUNTED STOP LAMP



Connector No.	Terminal No.	Connect to
D203*	2	REAR WINDOW DEFOGGER

2014/09/22

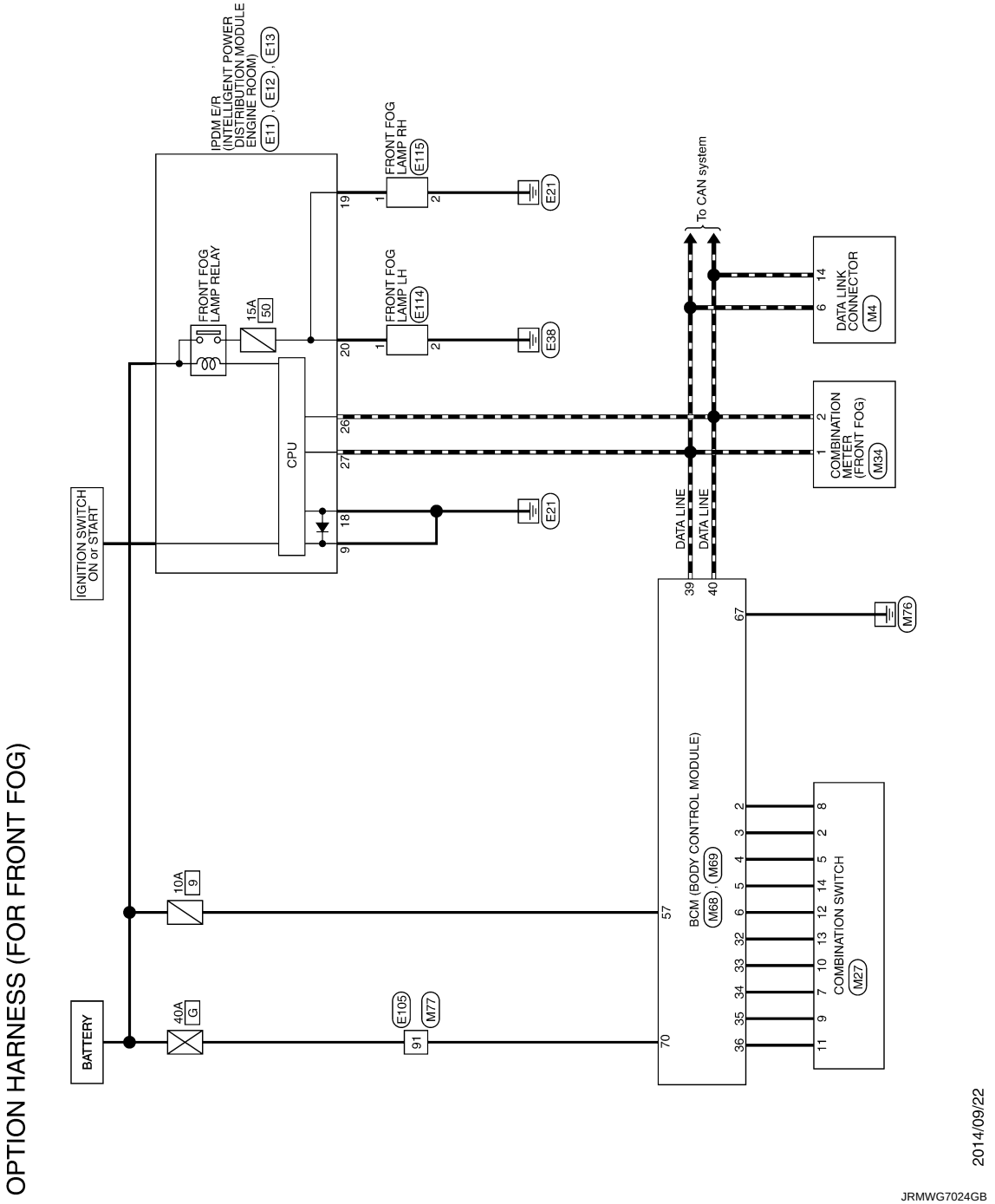
* : This connector is not shown in "Harness Layout".

JRMWG7091GB

OPTION HARNESS

Wiring Diagram

INFOID:0000000011773213



OPTION HARNESS (FOR FRONT FOG)

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC



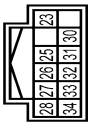
Terminal No.	Color Of Wire	Signal Name [Specification]
9	B/Y	–
14	R	–

Connector No.	E12
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS



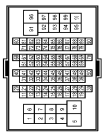
Terminal No.	Color Of Wire	Signal Name [Specification]
18	GR	–
19	R	– [Without front fog lamp]
19	W	– [With front fog lamp]
20	G	– [Without front fog lamp]
20	V	– [With front fog lamp]

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
23	SB	–
25	BR	–
26	P	–
27	L	–
28	Y	–
30	V	–
31	Y	–
32	R	–
33	G	–
34	L	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	–
4	Y	–
6	P	–
10	R	–
11	W	–
12	B	–
13	R	–
14	SHIELD	–
34	BE	–

35	R	–
36	B	–
37	P	–
52	R	–
53	BR	–
54	V	–
55	BE	–
58	G	–
59	Y	–
62	Y	–
63	V	–
64	LG	–
65	L	–
66	R	–
67	W	–
68	SB	–
70	BR	–
71	LG	–
72	V	–
73	L	–
76	R	–
78	B	–
79	W	–
80	L	–
83	Y	–
84	LG	–
85	P	–
86	BE	–
90	SHIELD	–
91	G	–
92	R	–
95	BR	–
96	P	–
97	GR	–
98	W	–
99	V	–
100	O	–

Connector No.	E114
Connector Name	FRONT FOG LAMP LH
Connector Type	FH202FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	–
2	B	–

Connector No.	E115
Connector Name	FRONT FOG LAMP RH
Connector Type	FH202FB



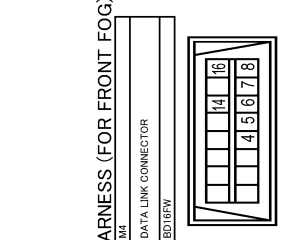
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	–
2	B	–

JRMWG7025GB

OPTION HARNESS (FOR FRONT FOG)

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
4	B	–
5	B	–
6	L	–
7	W	–
8	LG	–
14	P	–
16	Y	–

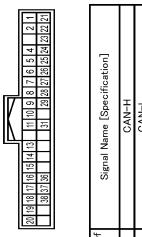
Connector No.	M27
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	WASHER (RR)
2	GR	OUTPUT 4
3	R	WASHER (FR)
4	W	IGN
5	BR	OUTPUT 3
6	B	GND
7	V	OUTPUT 3
8	L	OUTPUT 5
9	R	INPUT 2
10	Y	INPUT 4
11	P	INPUT 1
12	W	OUTPUT 1
13	LG	INPUT 5
14	G	OUTPUT 2

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH

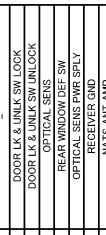
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
4	Y	VEHICLE SPEED SIGNAL (8-PULSE)
5	G	PADDLE SHIFTER UP SWITCH SIGNAL
6	BR	FUEL LEVEL SENSOR SIGNAL
7	R	AIR BAG SIGNAL
8	P	–
9	W	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
10	SB	PARKING BRAKE SWITCH SIGNAL
11	G	BRAKE FLUID LEVEL SWITCH SIGNAL
13	GR	ILLUMINATION CONTROL SIGNAL
14	R	MANUAL MODE SHIFT UP SIGNAL
15	L	ACC POWER SUPPLY
16	W	MANUAL MODE SHIFT DOWN SIGNAL
17	G	WASHER LEVEL SWITCH SIGNAL
18	R	SECURITY SIGNAL
19	GR	AMBIENT SENSOR SIGNAL
20	R	AMBIENT SENSOR GROUND
21	B	GROUND
22	B	GROUND
23	B	GROUND
24	L	FUEL LEVEL SENSOR GROUND
25	B	VDC GROUND
26	V	PADDLE SHIFTER DOWN SWITCH SIGNAL
27	LG	BATTERY POWER SUPPLY
28	GR	IGNITION SIGNAL
29	V	PASSENGER SEAT BELT WARNING SIGNAL
31	P	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
36	Y	MANUAL MODE SIGNAL
37	G	NON-MANUAL MODE SIGNAL
38	P	ALTERNATOR SIGNAL

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

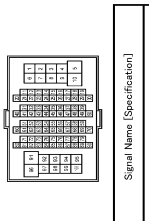
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	BR	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	W	COMBI SW INPUT 1
7	L	KEY CYL UNLOCK SW
8	R	KEY CYL LOCK SW
9	R	STOP LAMP SW 1
10	W	–
12	GR	DOOR LK & UNLK SW LOCK
13	BR	DOOR LK & UNLK SW UNLOCK
14	SB	OPTICAL SENS
15	W	REAR WINDOW DEF SW
17	Y	OPTICAL SENS PWR SPLY
18	V	RECEIVER GND
21	P	NATS ANT AMP.
23	R	SECURITY IND LAMP CONT
24	SB	DONGLE LINK
25	LG	NATS ANT AMP.
26	BR	THERMO AMP.
27	Y	A/C SW
28	LG	BLOWER FAN SW
29	SB	HAZARD SW
30	L	BK DOOR OPENER SW
31	GR	DR DOOR UNLK SENS
32	LG	COMBI SW OUTPUT 5
33	Y	COMBI SW OUTPUT 4
34	V	COMBI SW OUTPUT 3
35	R	COMBI SW OUTPUT 2
36	P	COMBI SW OUTPUT 1
37	G	DETENT SW
38	SB	RECEIVER COMM
39	L	CAN-H
40	P	CAN-L

Connector No.	M69
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA

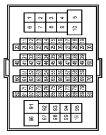
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	P	BATT(FUSE)
59	SB	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	W	TURN SIG RH OUTPUT
63	BR	INT ROOM LAMP CONT
64	R	REVERSE SW
65	V	ALL DOOR LOCK OUTPUT
66	SB	DOOR UNLOCK,DR
67	B	GND
68	L	PW PWR SPLY (IGN)
69	P	PW PWR SPLY (BAT)
70	Y	BAT (F/L)

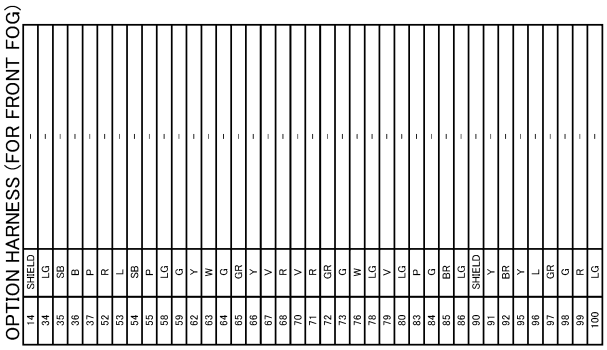
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	–
4	V	–
6	P	–
10	R	–
11	R	–
12	LG	–
13	V	–

JRMWG7026GB

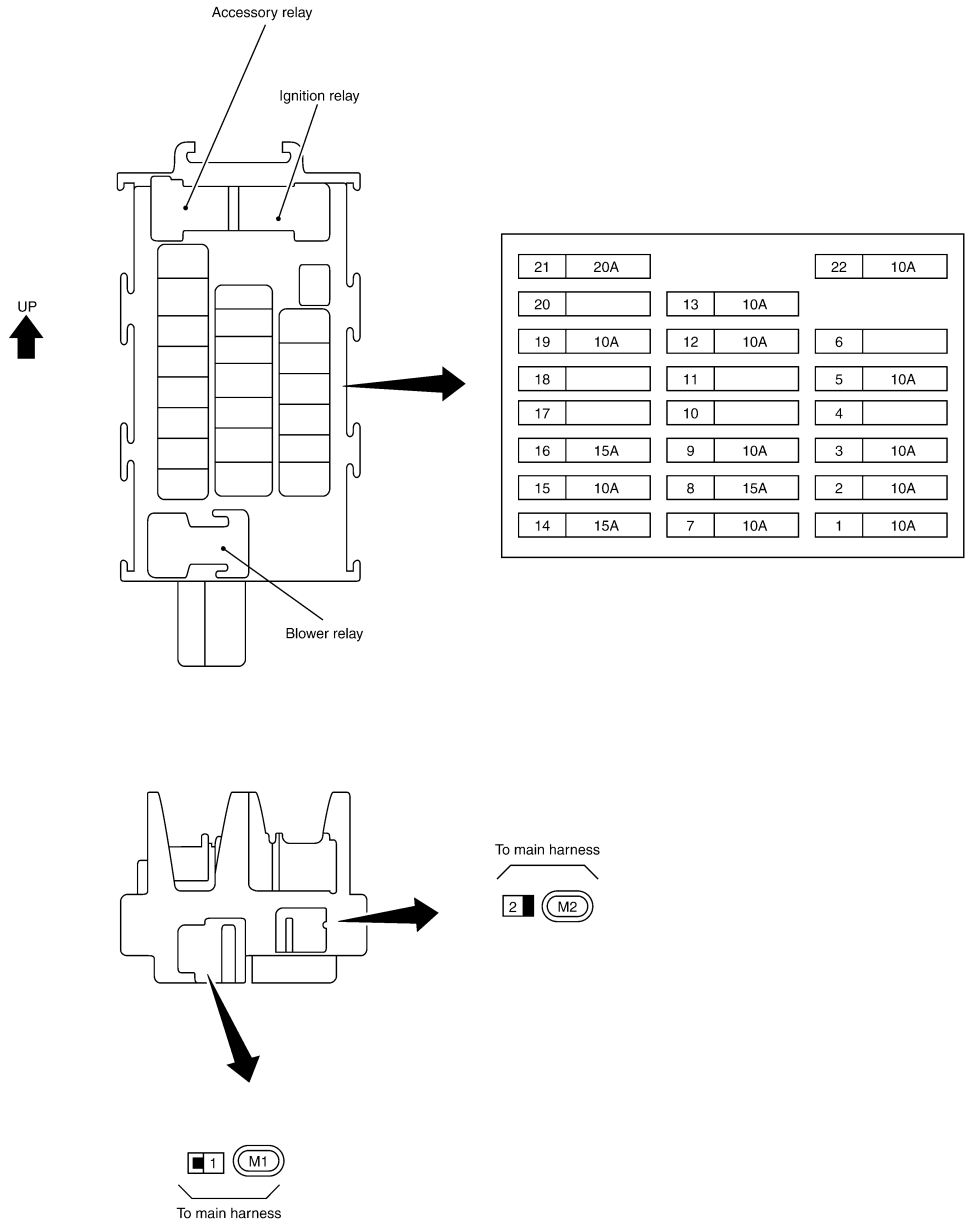


JRMWG7027GB

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:0000000011462006



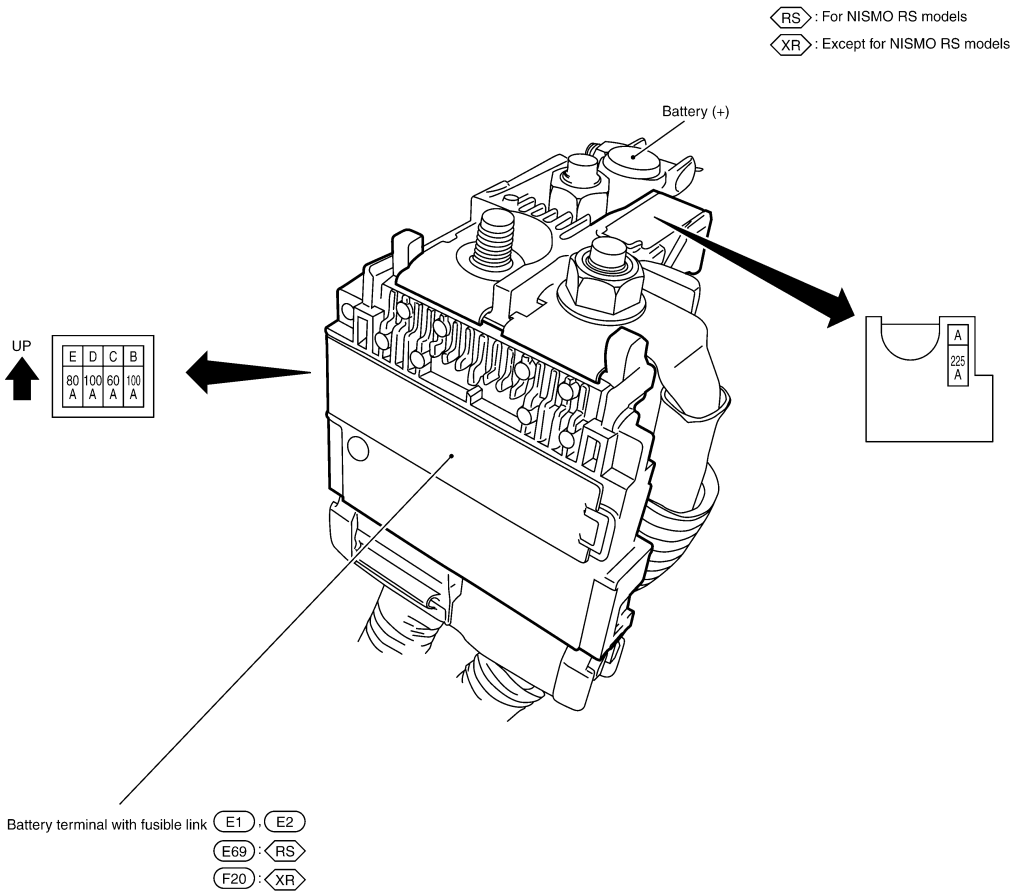
2014/09/22

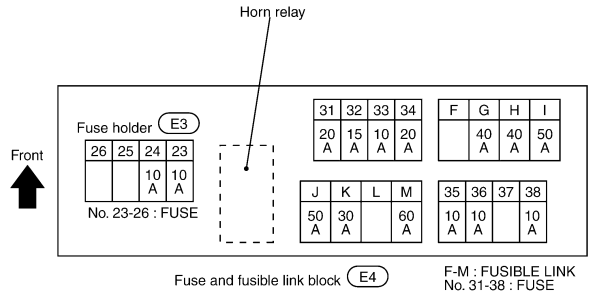
JRMWG7080GB

FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement

INFOID:0000000011462007





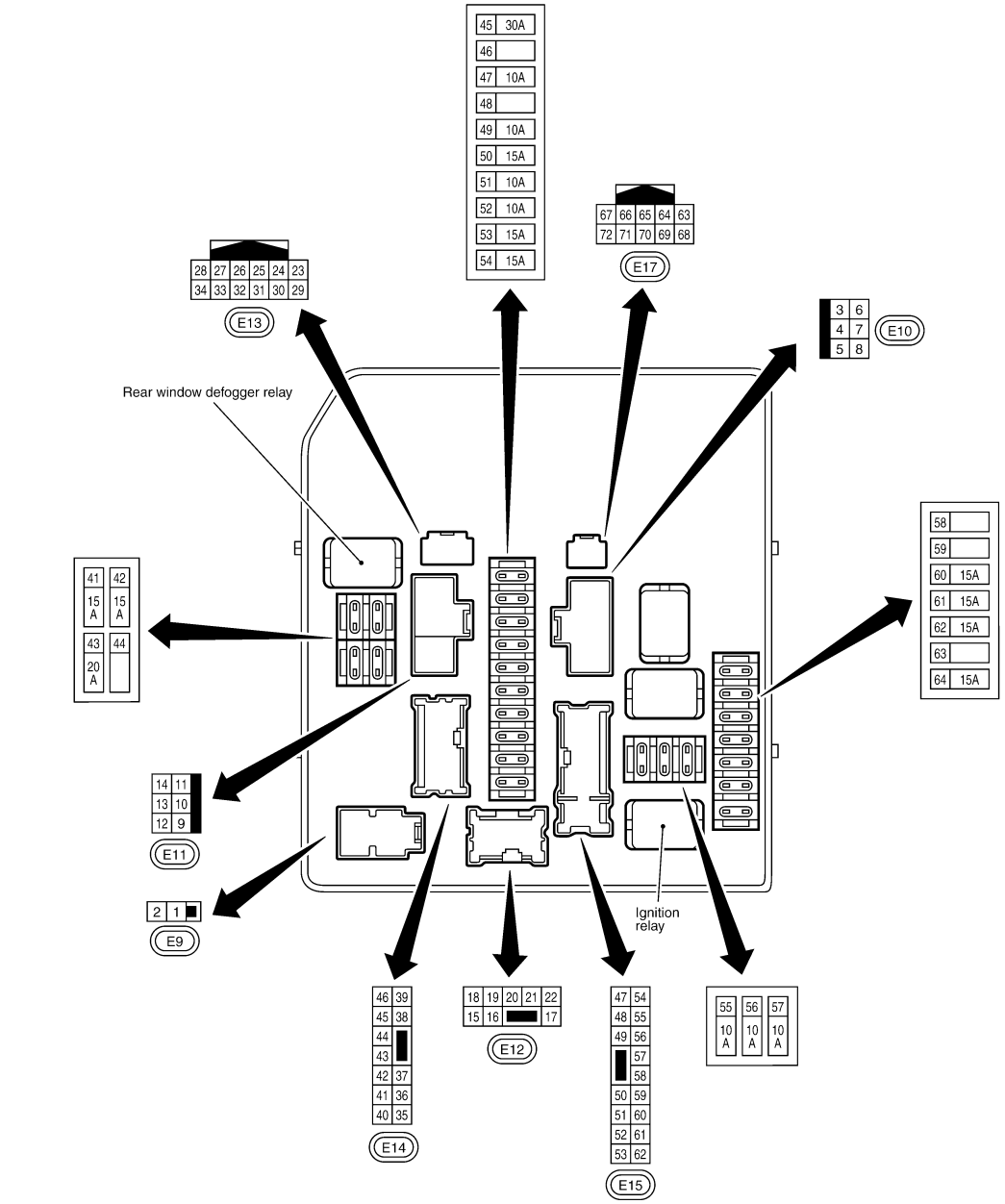
2014/09/22

JRMWG7081GB

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

Fuse, Connector and Terminal Arrangement

INFOID:0000000011462008

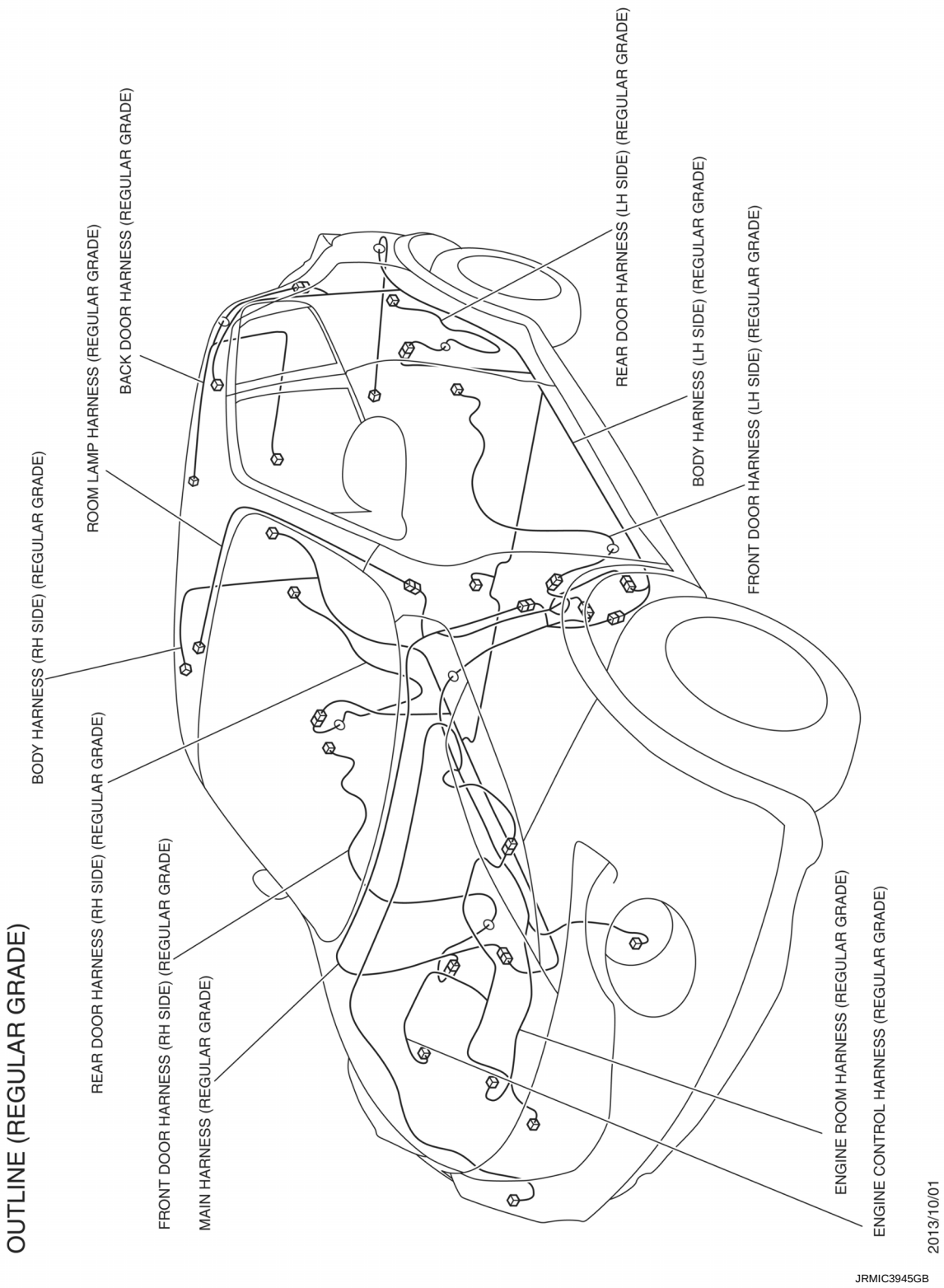


2013/10/01

JRMWE7961GB

HARNESS LAYOUT
REGULAR GRADE
REGULAR GRADE : Outline

INFOID:0000000011462009

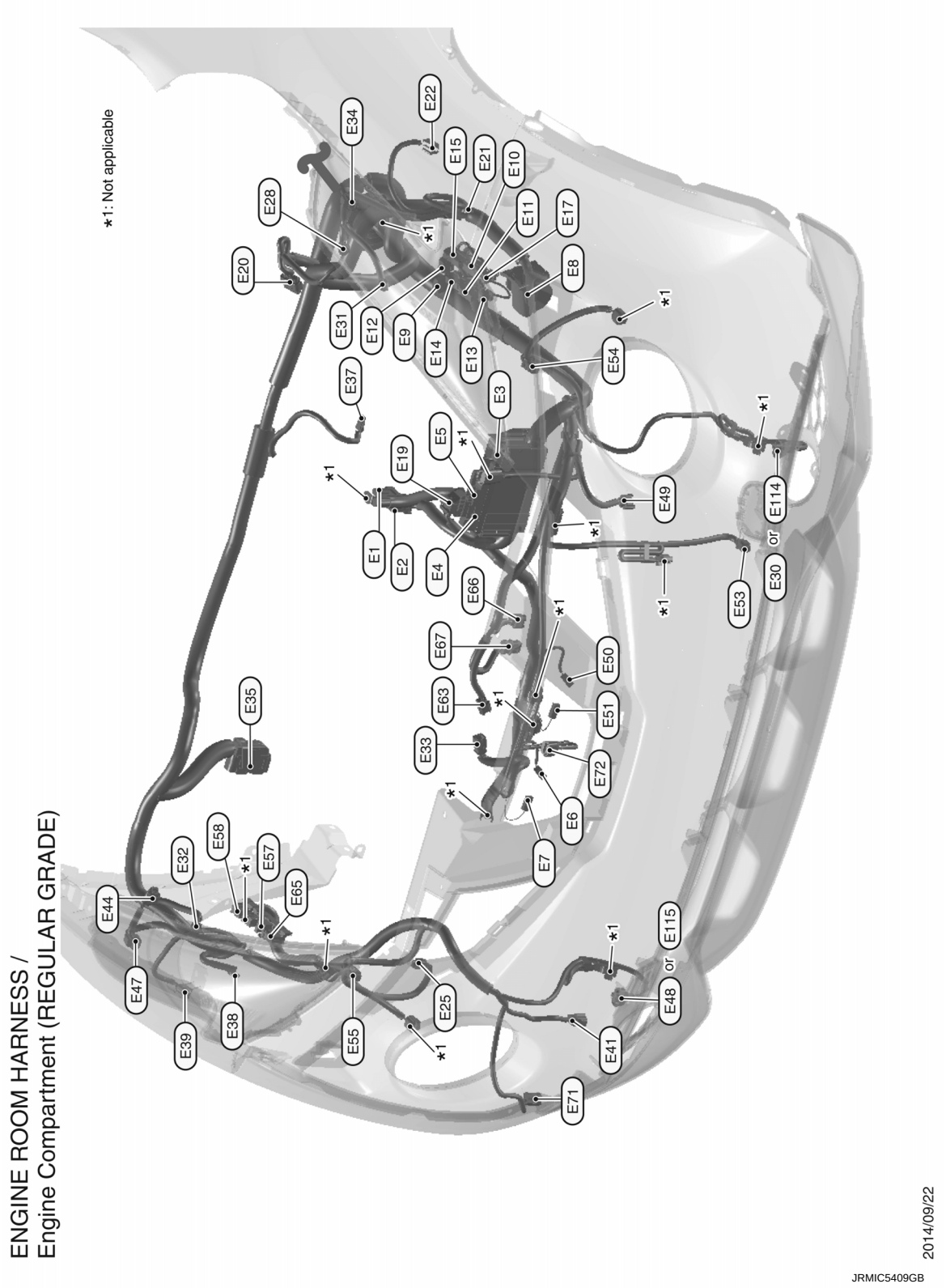


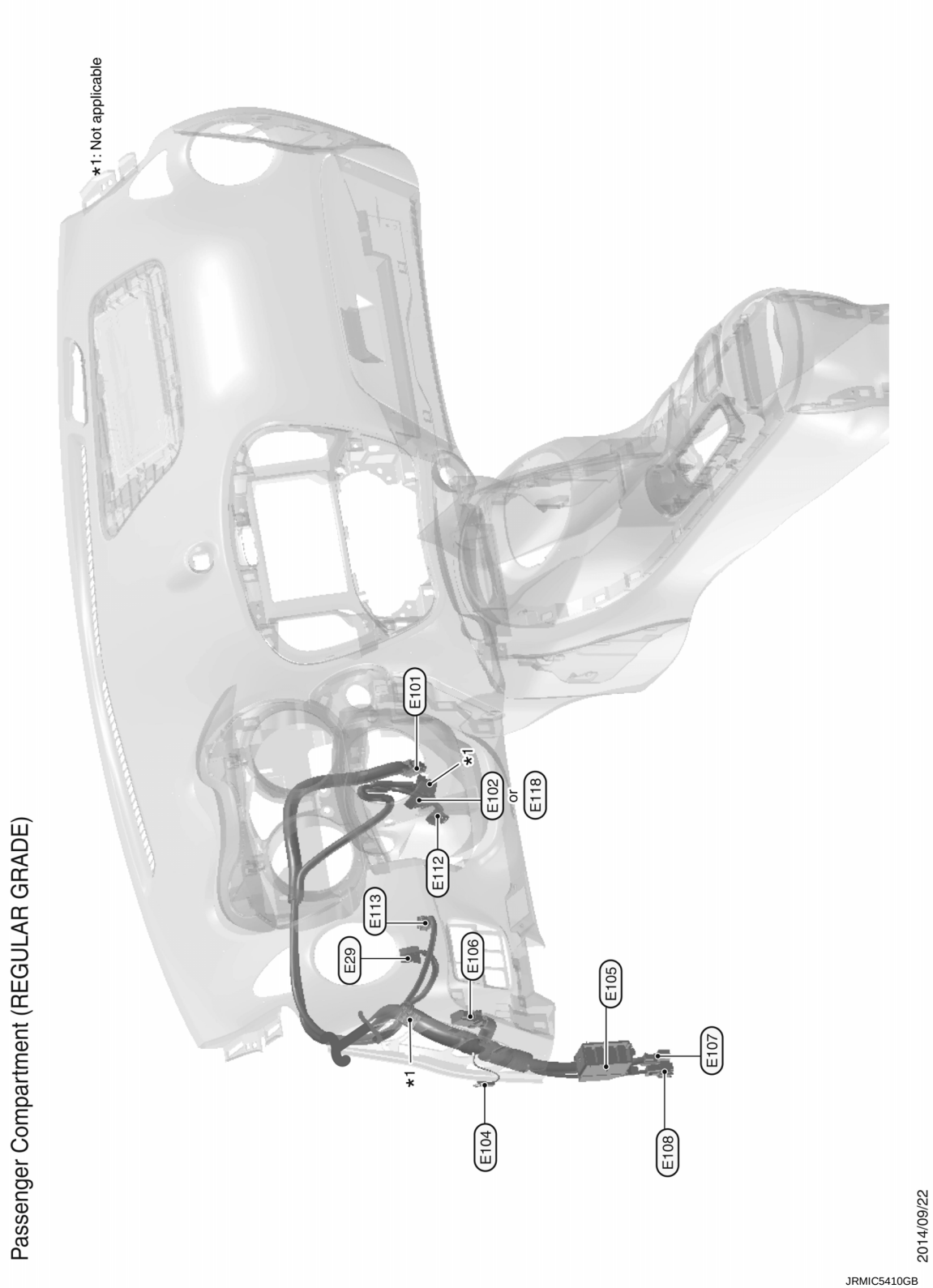
JRMIC3945GB

REGULAR GRADE : Engine Room Harness

INFOID:0000000011462010

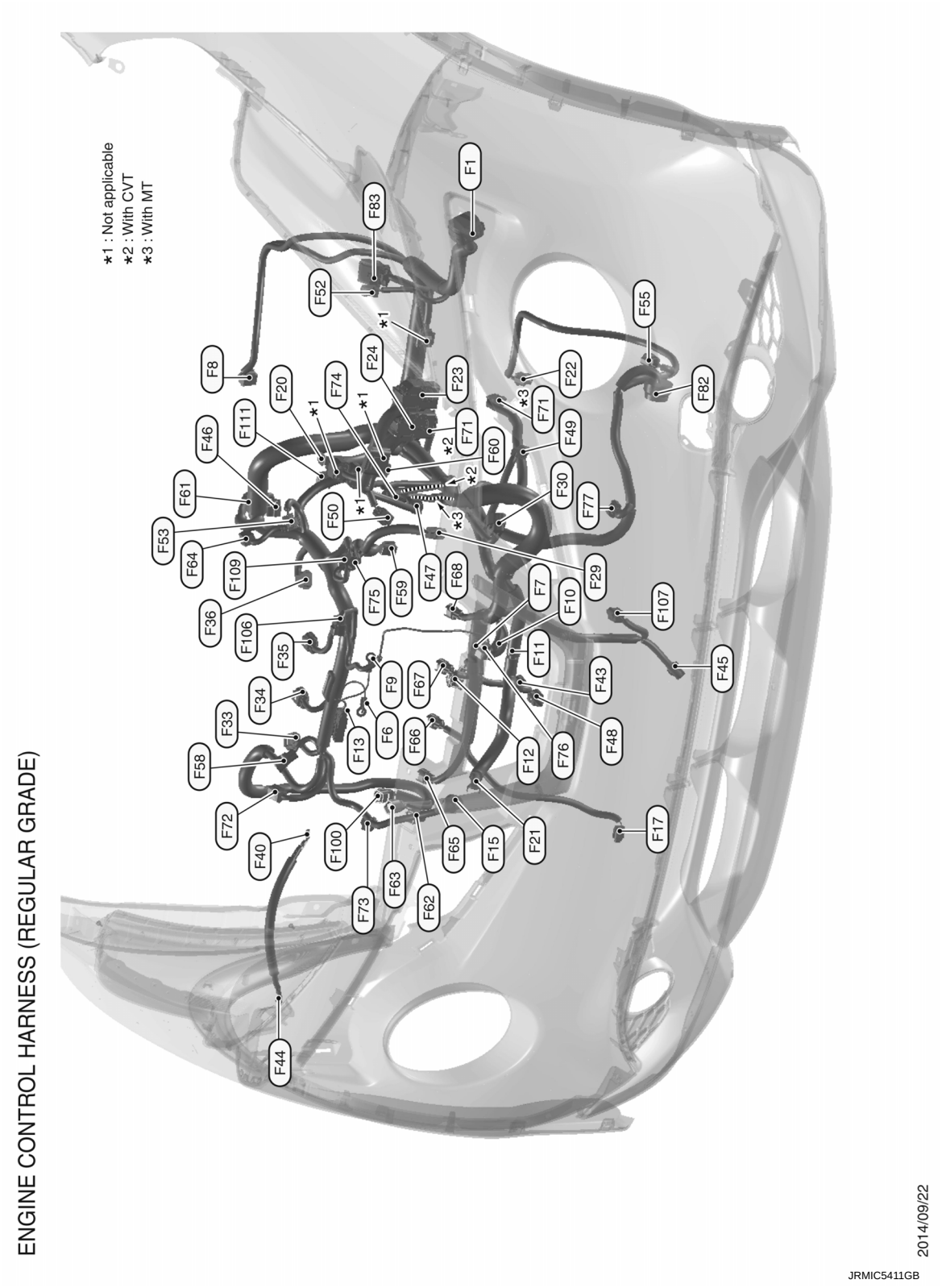
ENGINE COMPARTMENT




*1: Not applicable
E101
*1
E102
or
E118
E112
E113
E29
E106
E105
E107
*1
E104
E108
Passenger Compartment (REGULAR GRADE)
2014/09/22
JRMIC5410GB

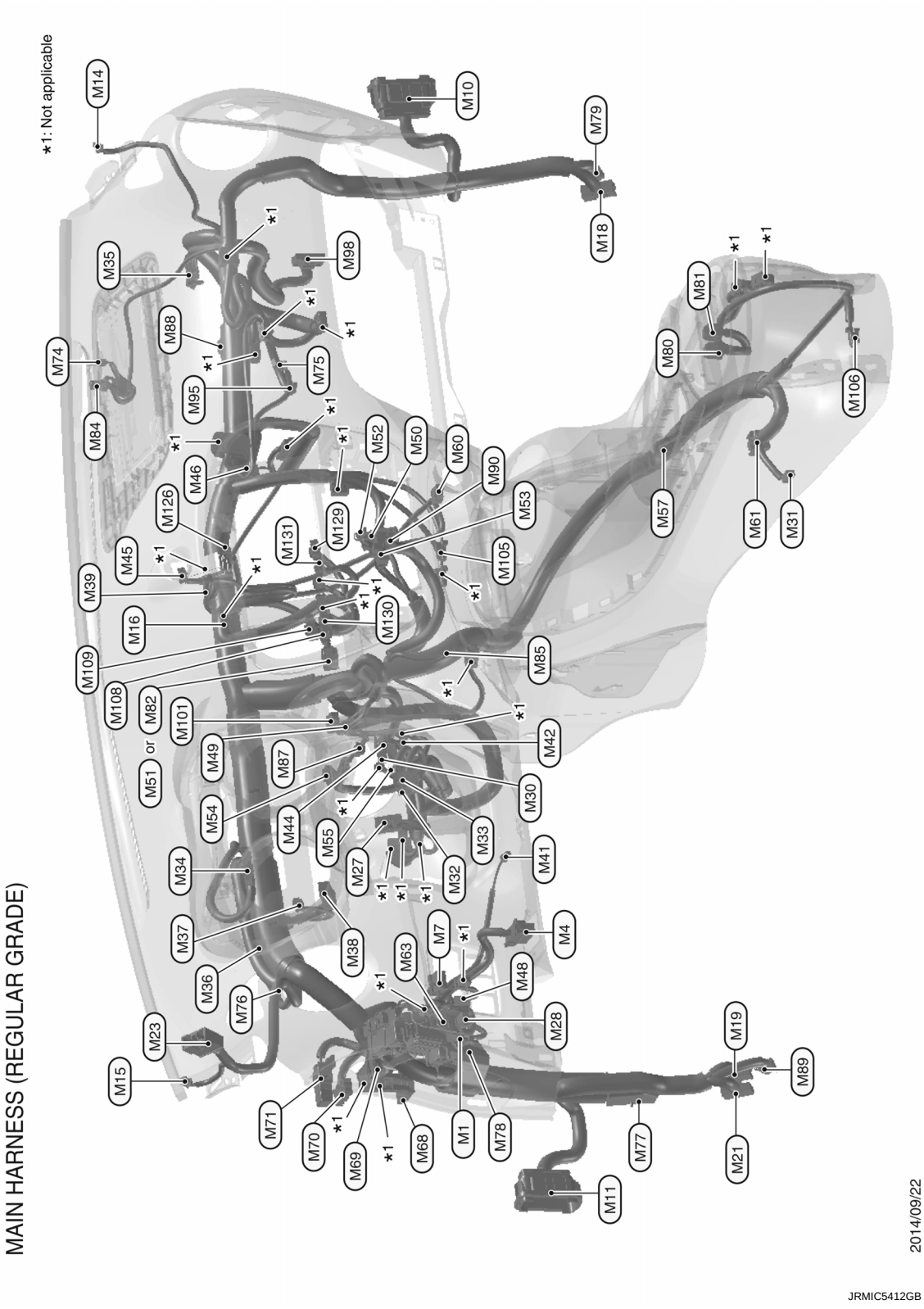
REGULAR GRADE : Engine Control Harness

INFOID:0000000011462011



REGULAR GRADE : Main Harness

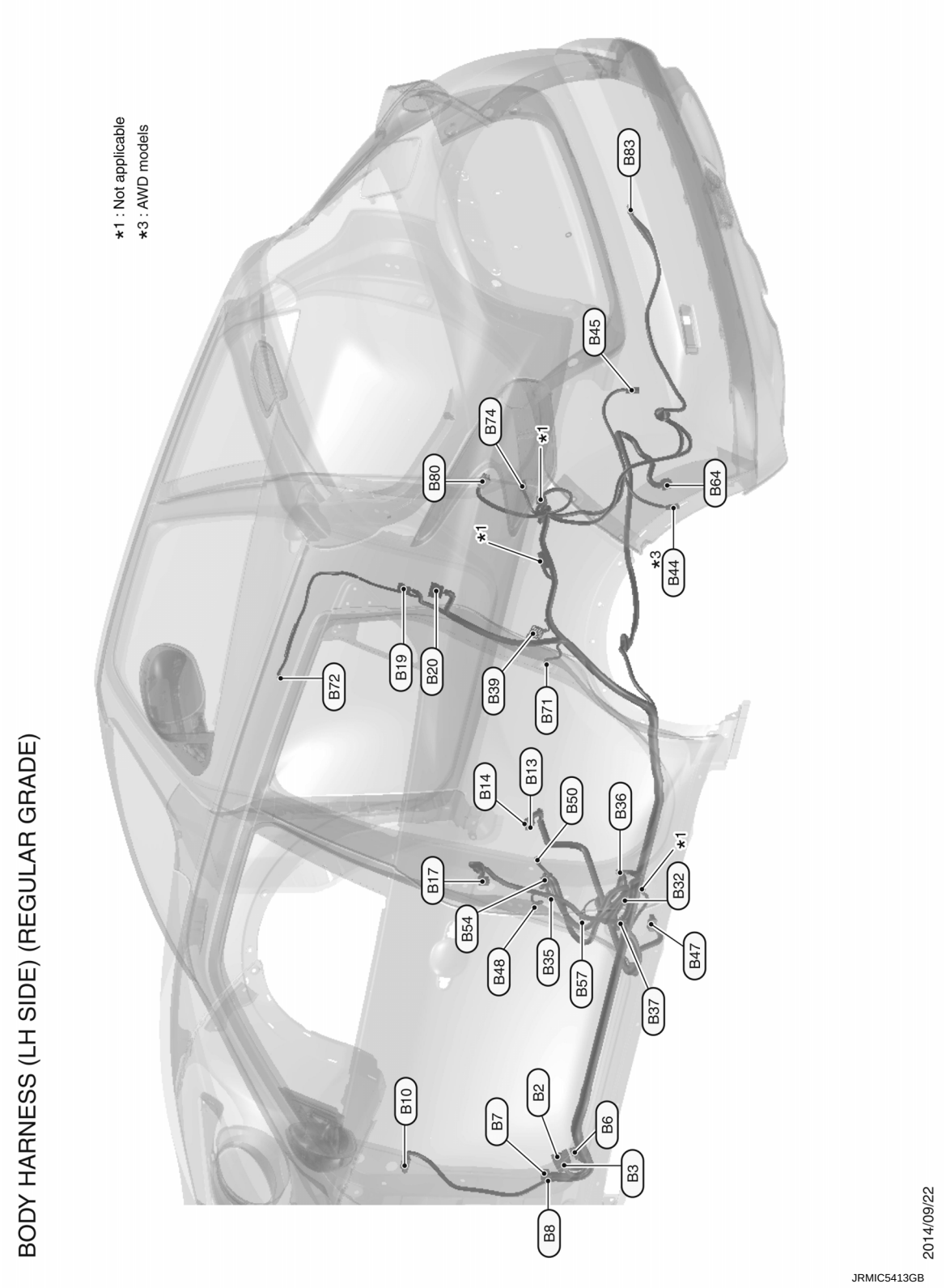
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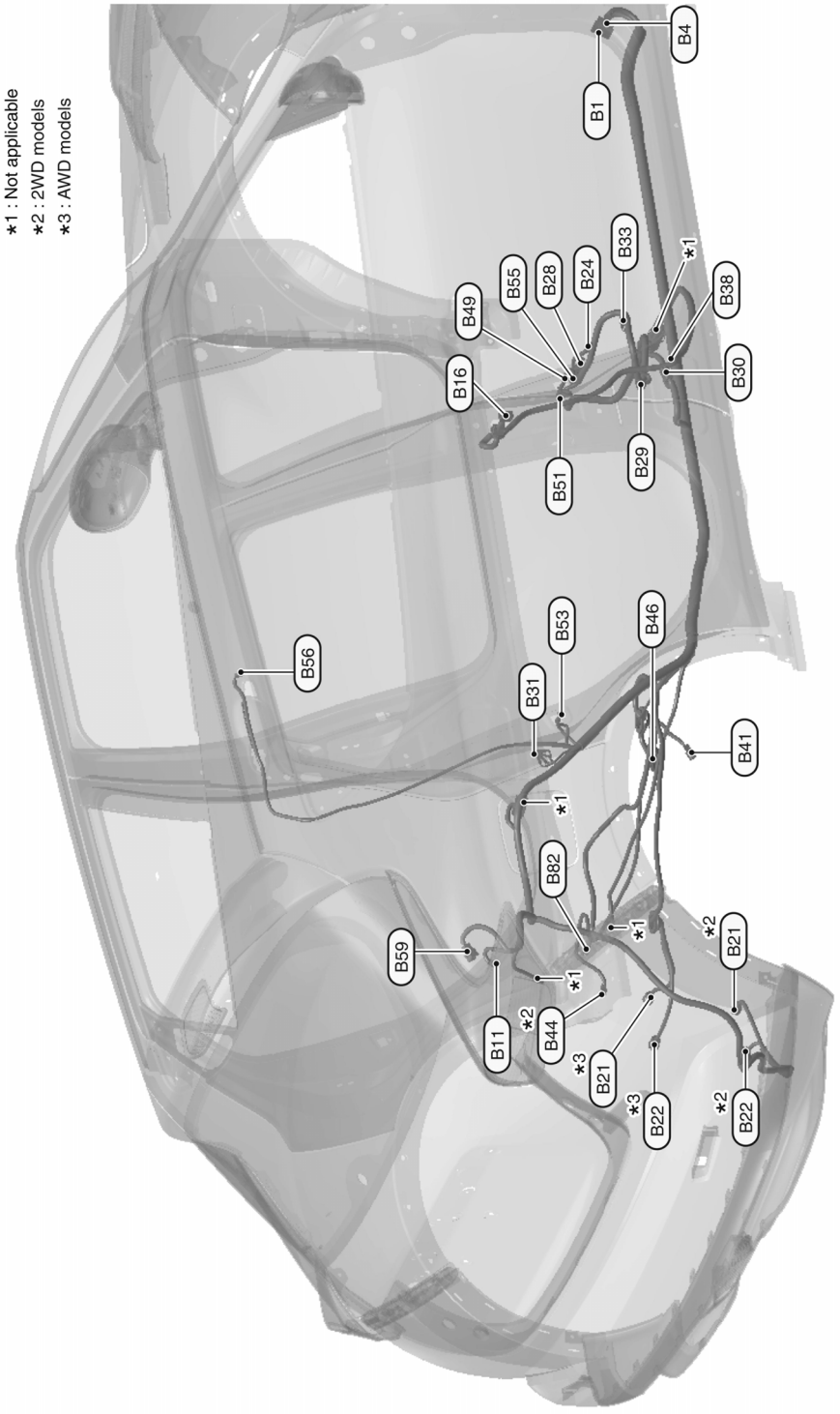
REGULAR GRADE : Body Harness

INFOID:0000000011462013

LH SIDE



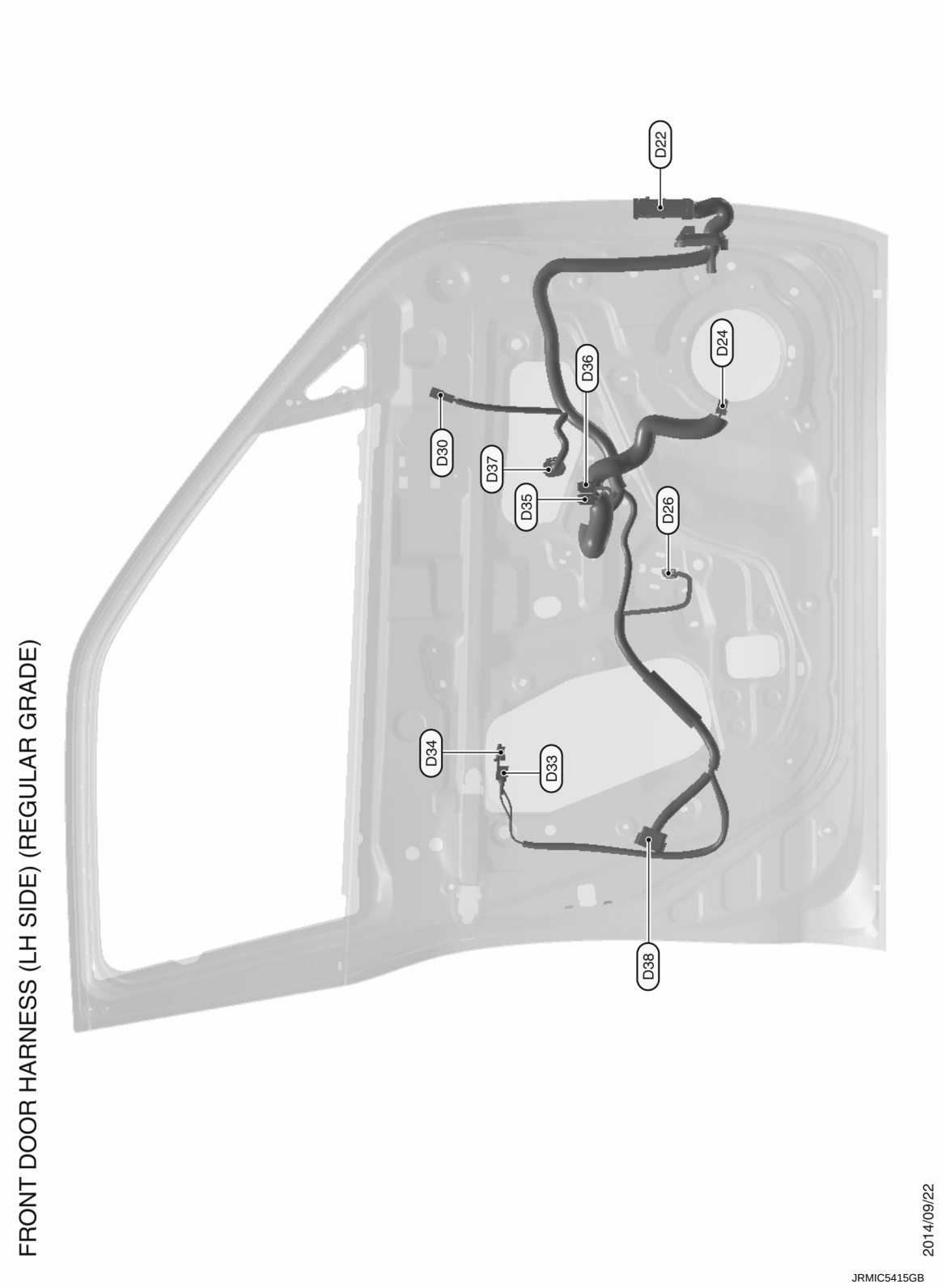
BODY HARNESS (RH SIDE) (REGULAR GRADE)



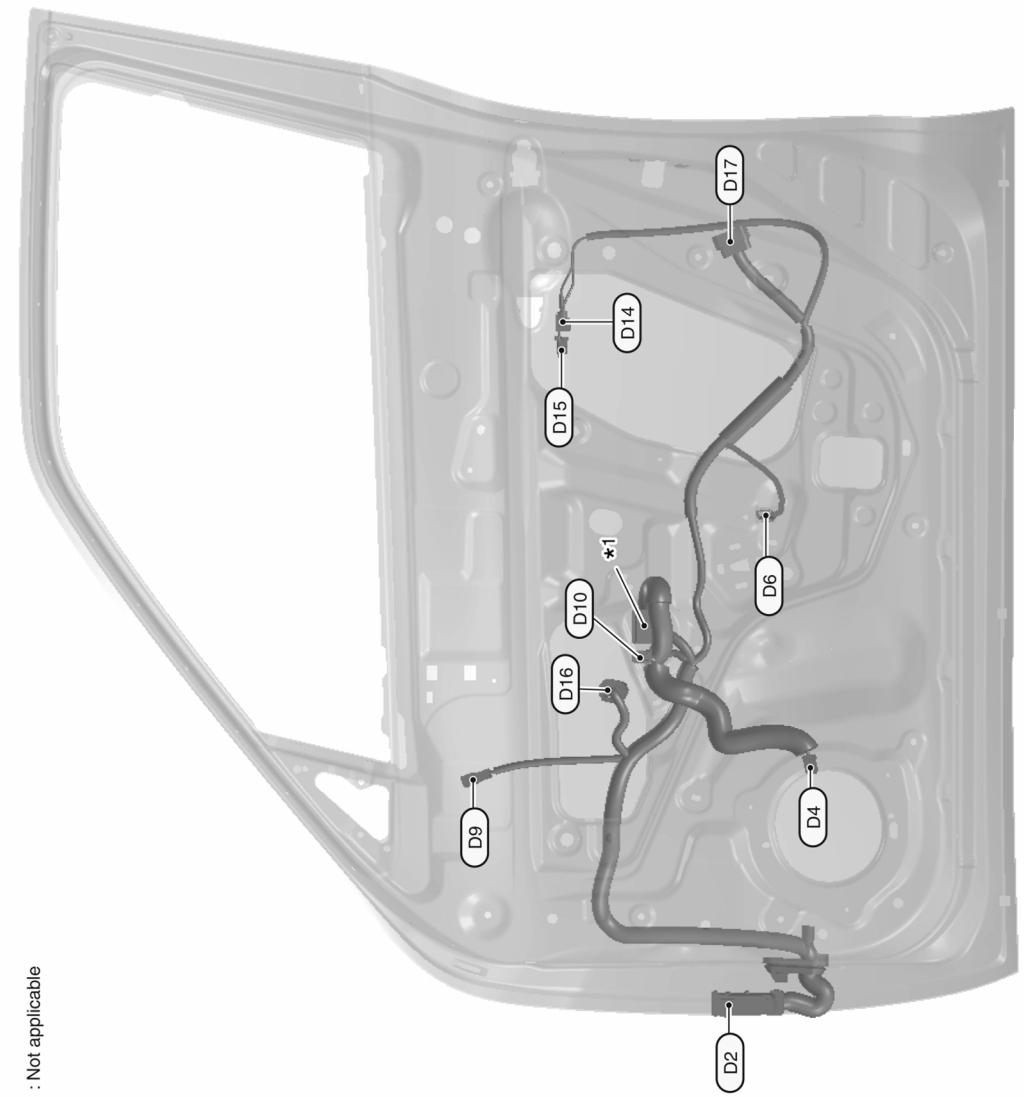
REGULAR GRADE : Door Harness

INFOID:0000000011462014

FRONT DOOR HARNESS (LH SIDE)



FRONT DOOR HARNESS (RH SIDE) (REGULAR GRADE)

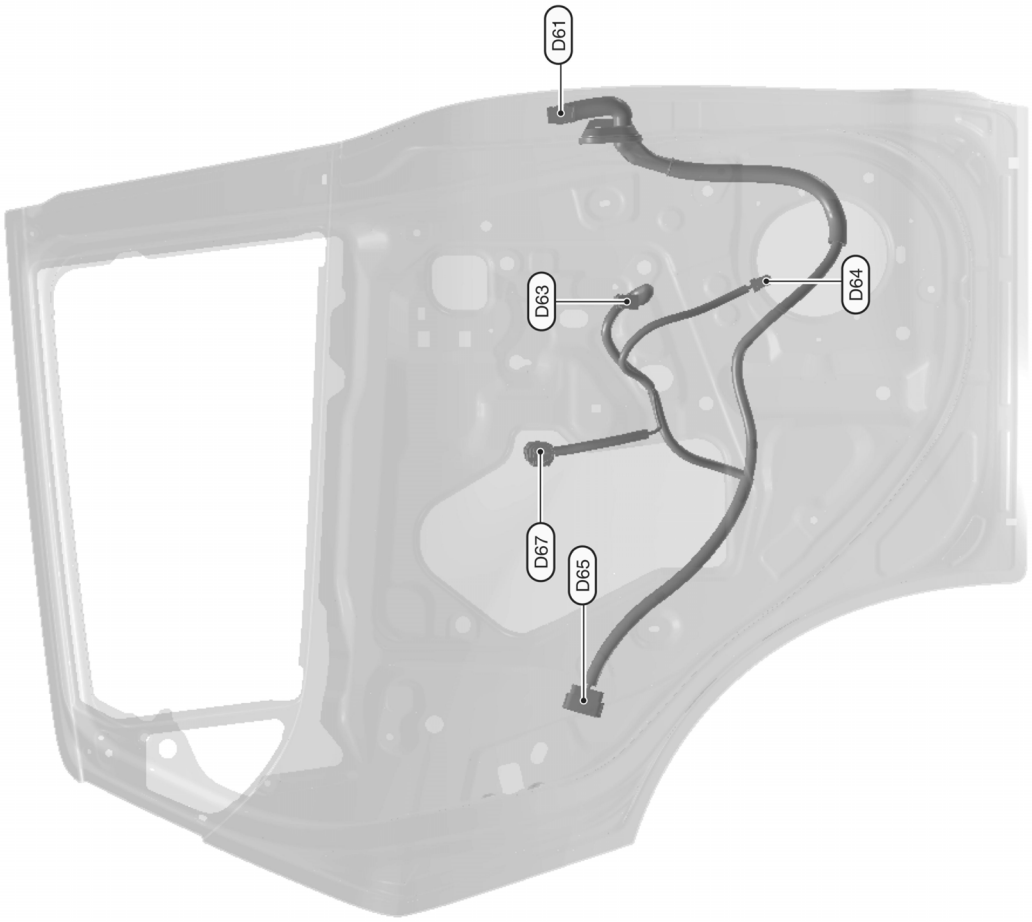


*1 : Not applicable

2014/09/22

JRMIC5416GB

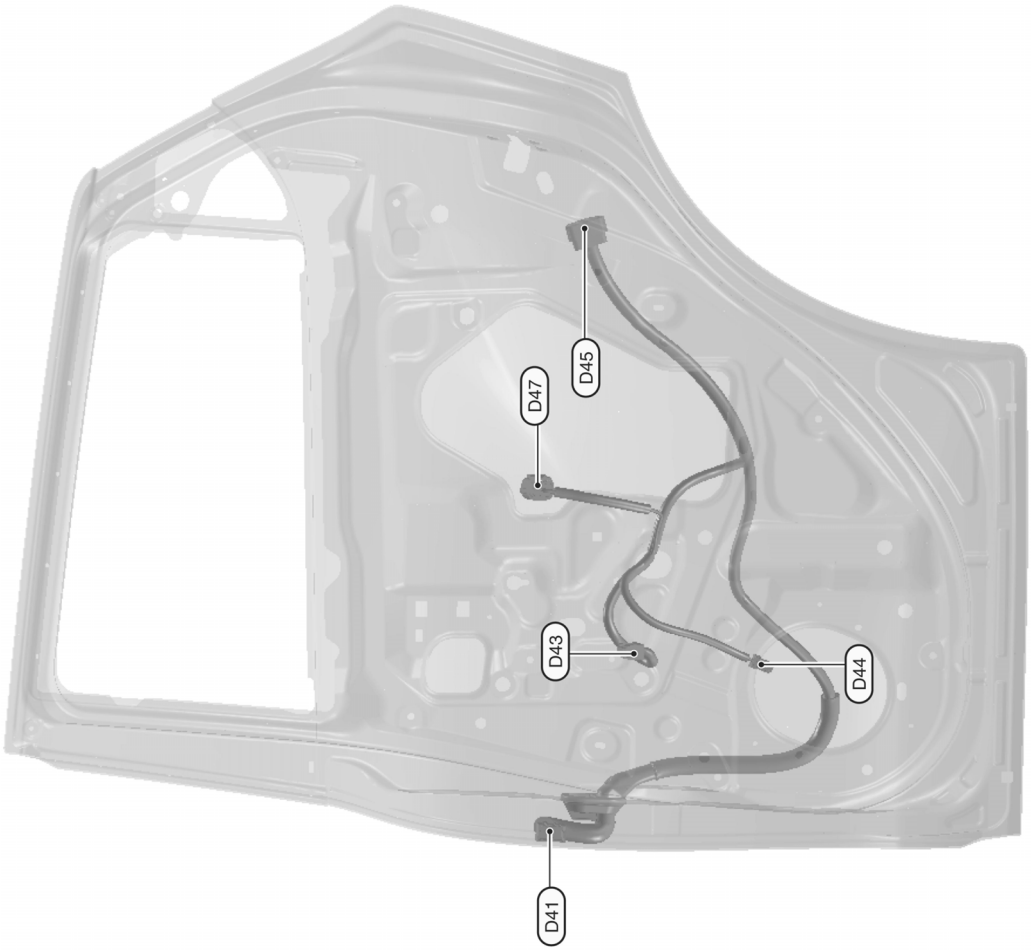
REAR DOOR HARNESS (LH SIDE) (REGULAR GRADE)



2013/10/01

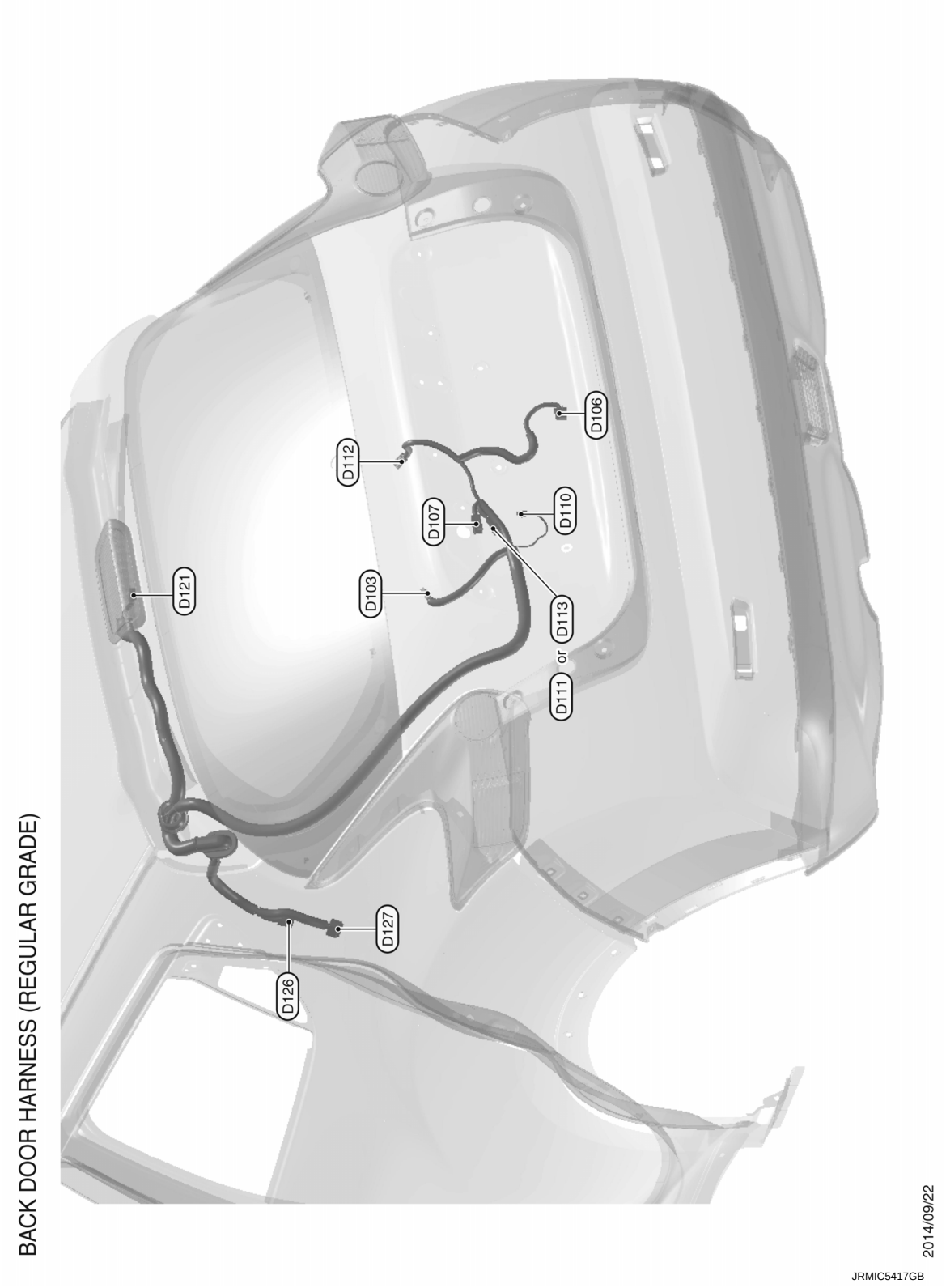
JRMIC3954GB

REAR DOOR HARNESS (RH SIDE) (REGULAR GRADE)



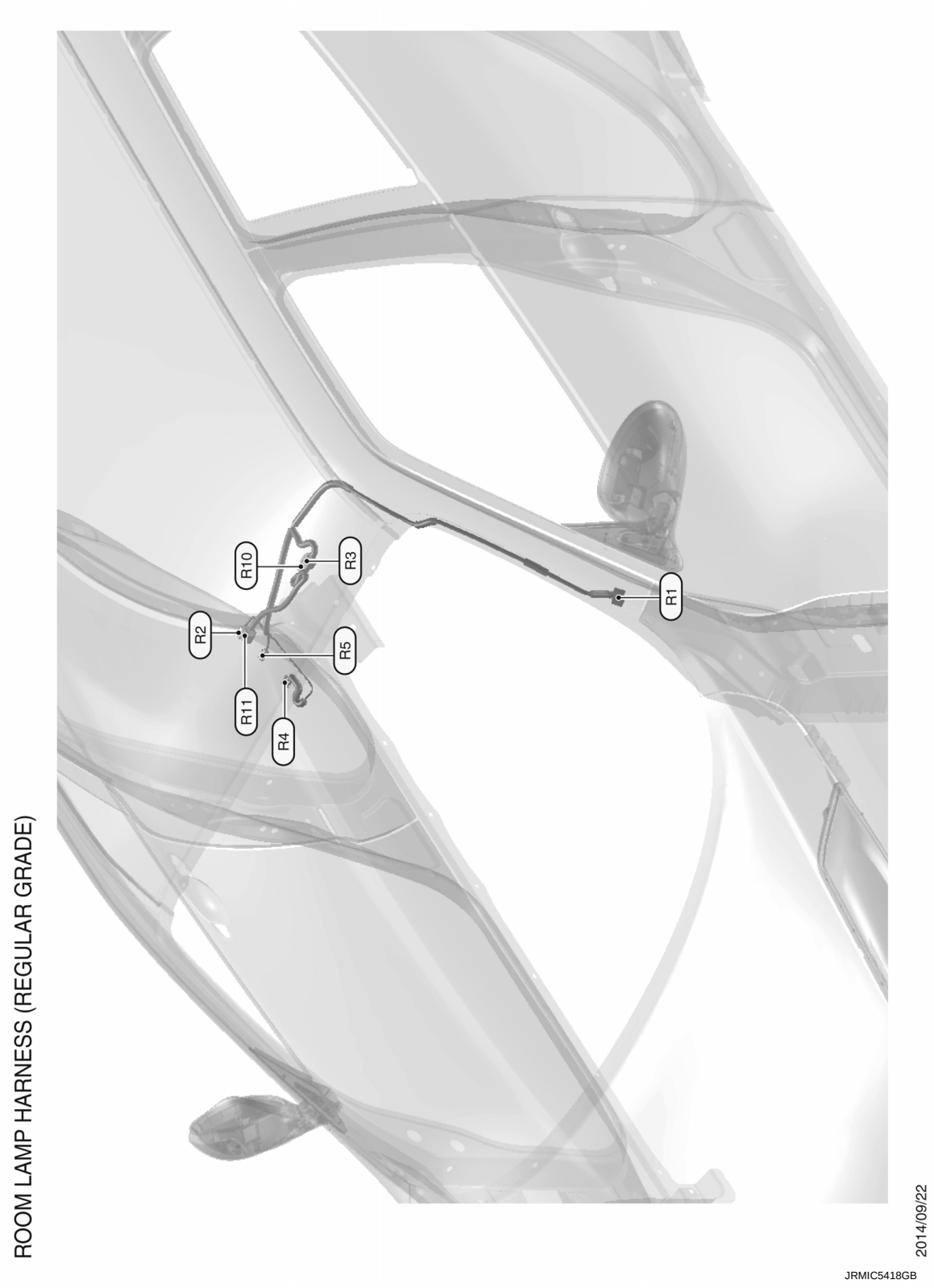
2013/10/01

JRMIC3955GB


BACK DOOR HARNESS (REGULAR GRADE)
D106
D112
D107
D110
D121
D103
D113
or
D111
D127
D126
2014/09/22
JRMIC5417GB

REGULAR GRADE : Room Lamp Harness

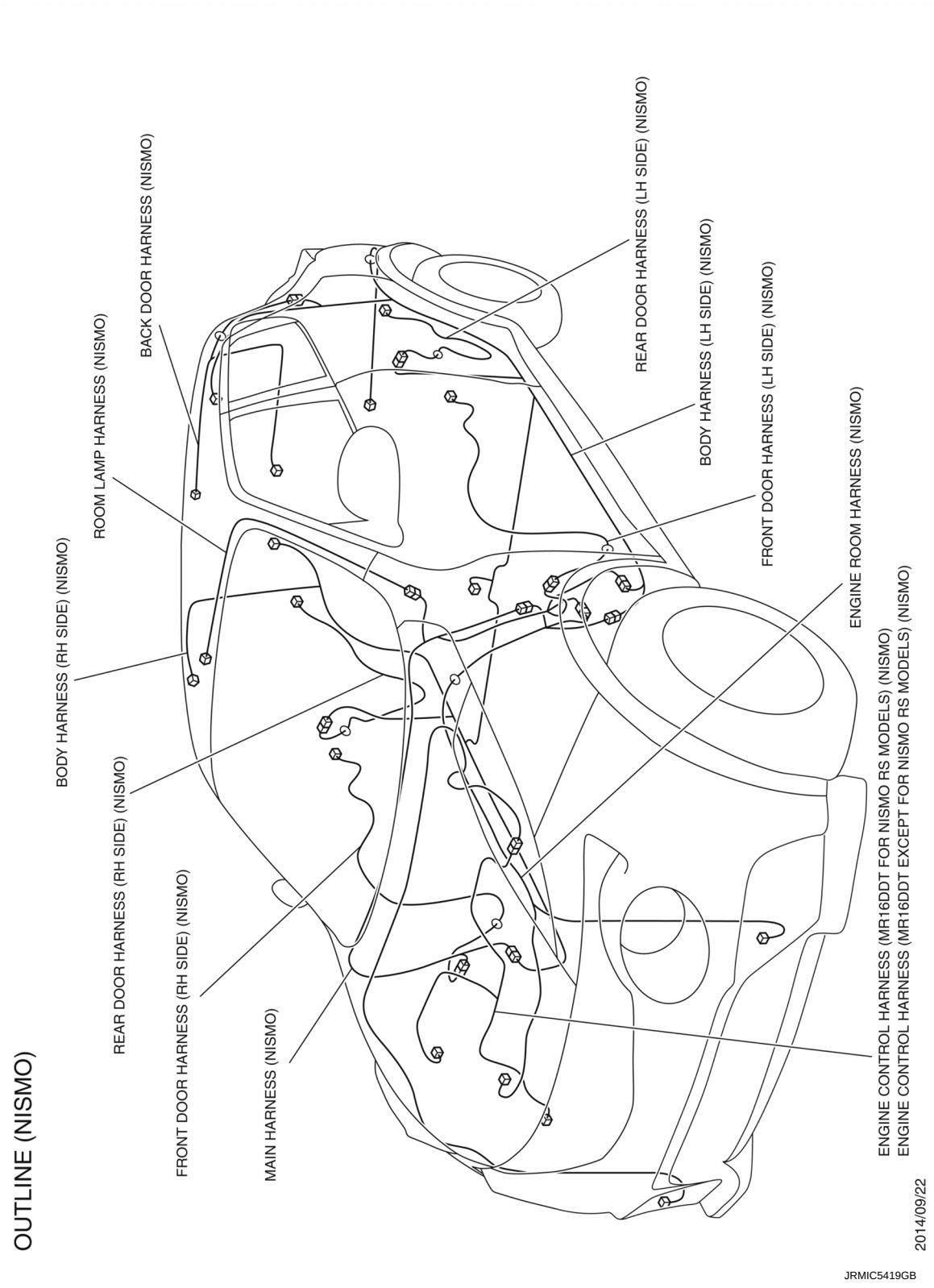
INFOID:0000000011462015



NISMO

NISMO : Outline

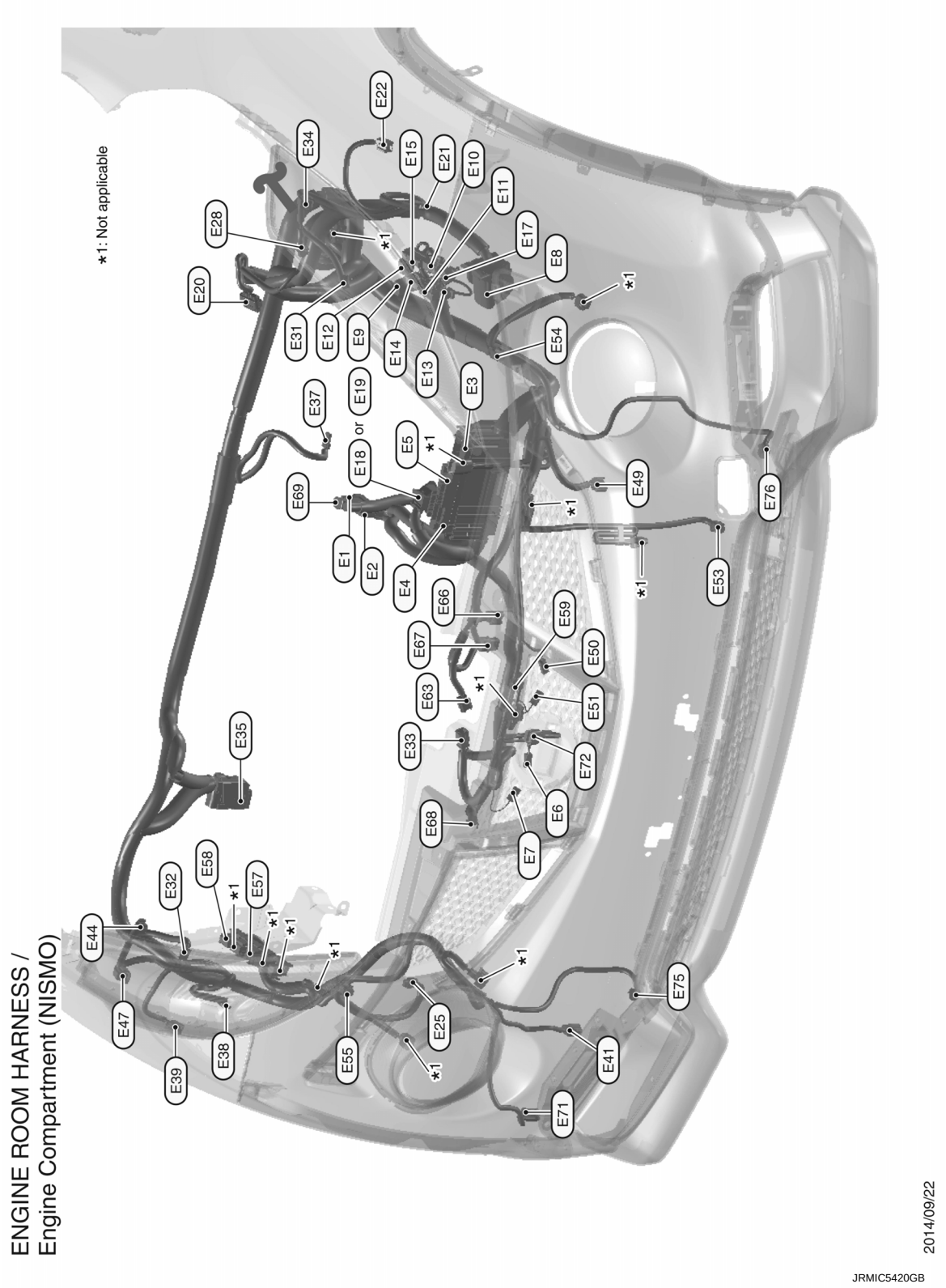
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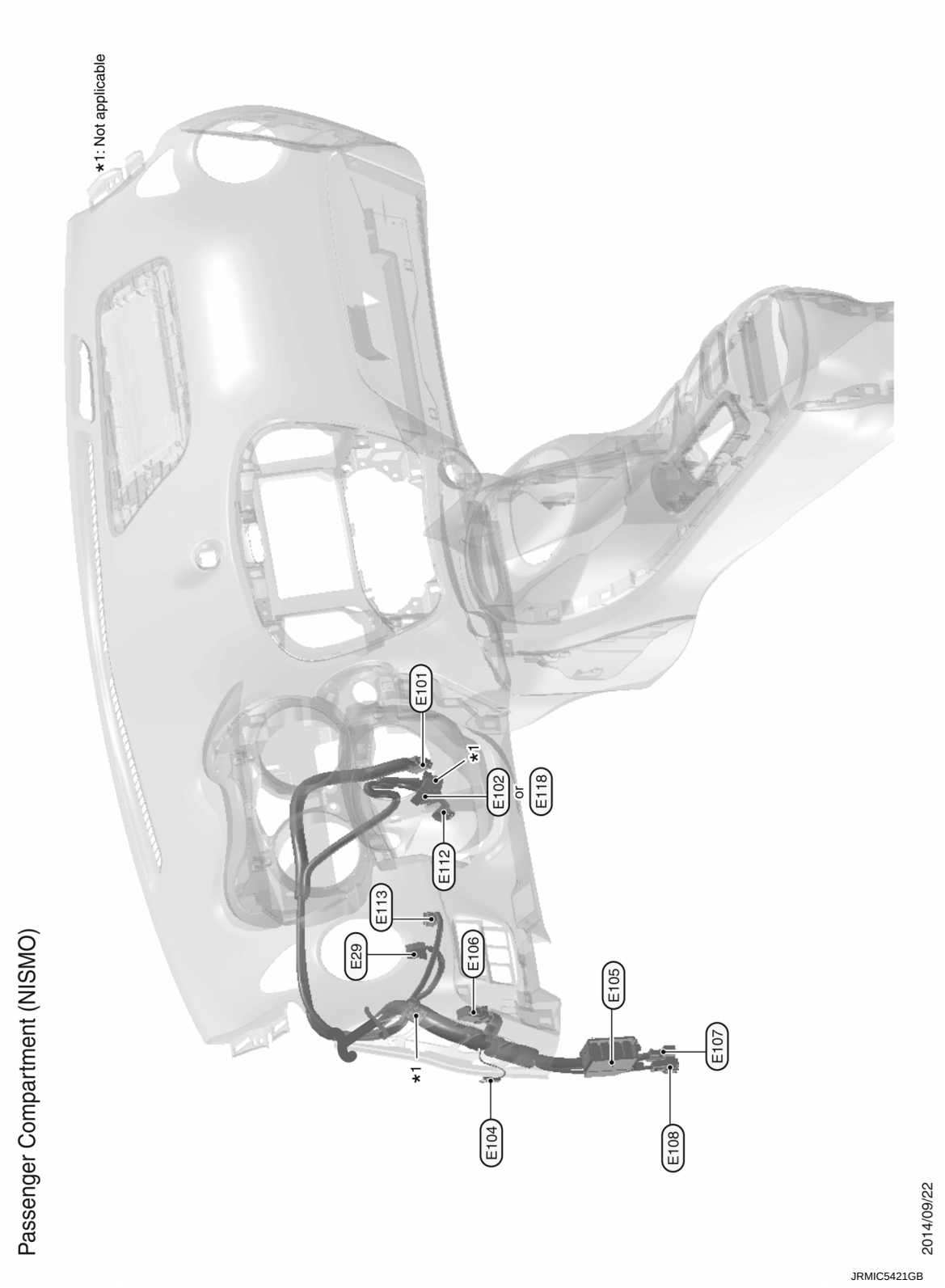


NISMO : Engine Room Harness

INFOID:0000000011462017

ENGINE COMPARTMENT

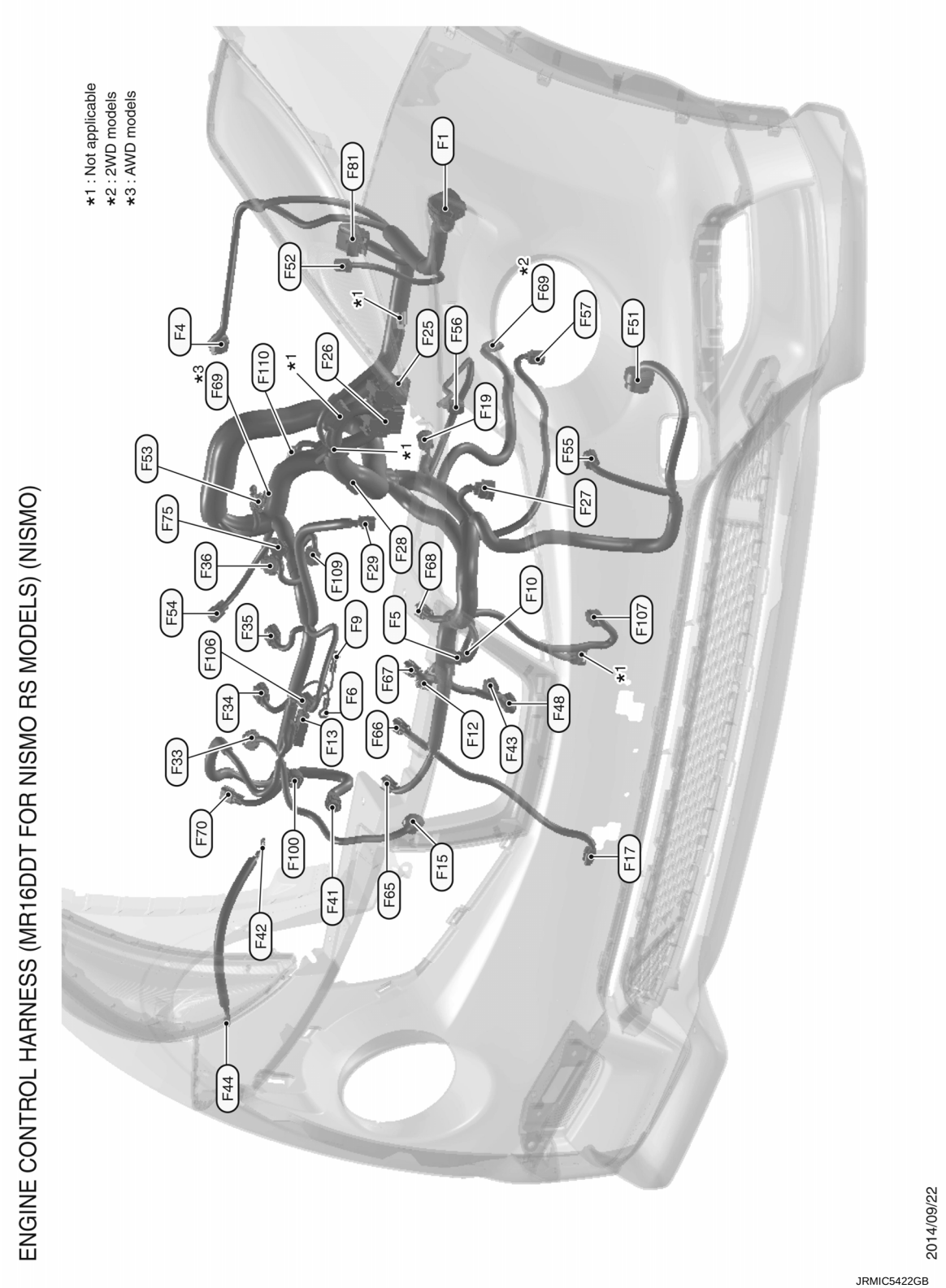



*1: Not applicable
E101
*1
E102
or
E118
E112
E113
E29
E106
E105
E107
*1
E104
E108
Passenger Compartment (NISMO)
2014/09/22
JRMIC5421GB

NISMO : Engine Control Harness

INFOID:0000000011462018

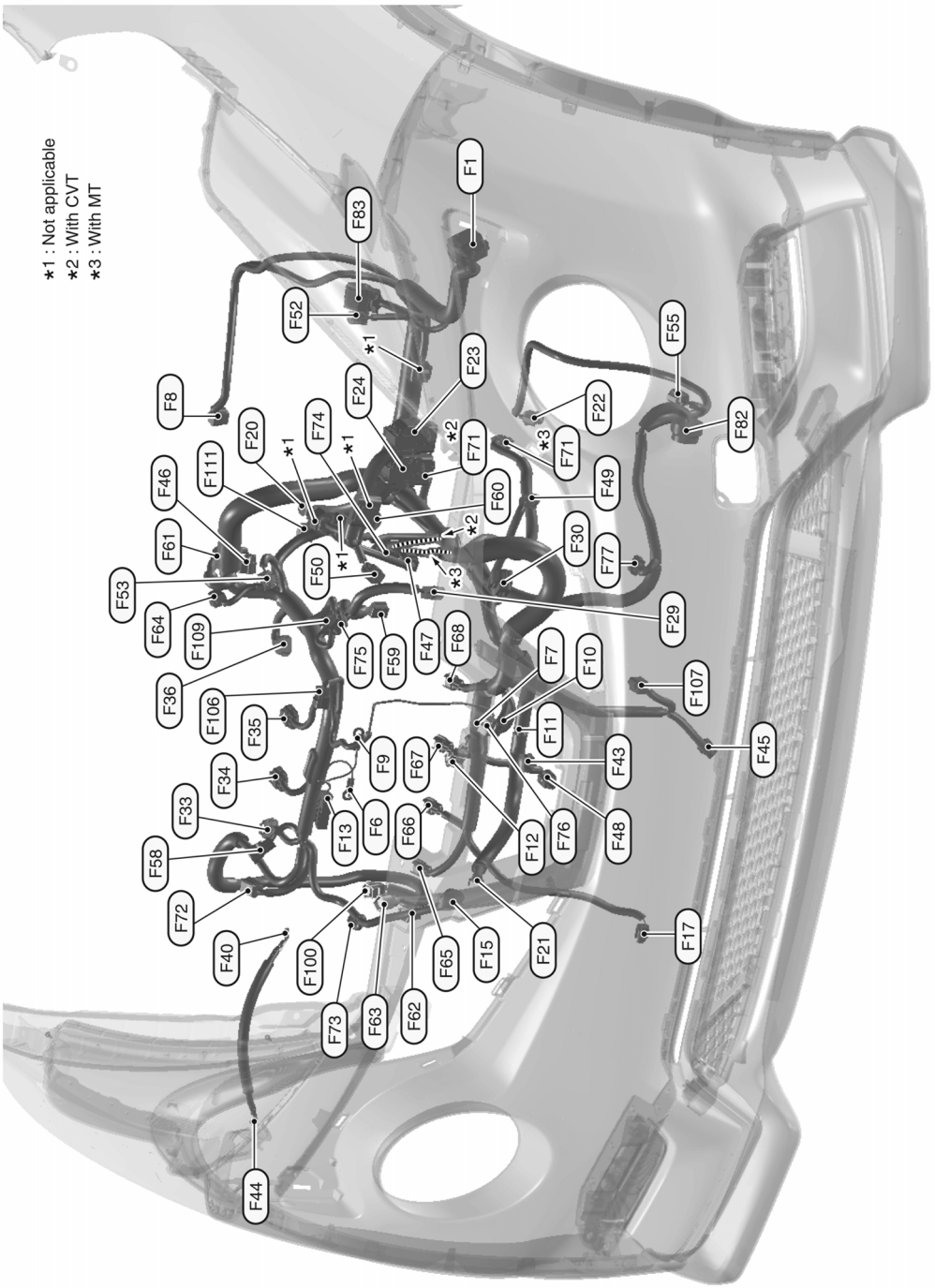
MR16DDT FOR NISMO RS MODELS



ENGINE CONTROL HARNESS (MR16DDT FOR NISMO RS MODELS) (NISMO)

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

ENGINE CONTROL HARNESS (MR16DDT EXCEPT FOR NISMO RS MODELS) (NISMO)

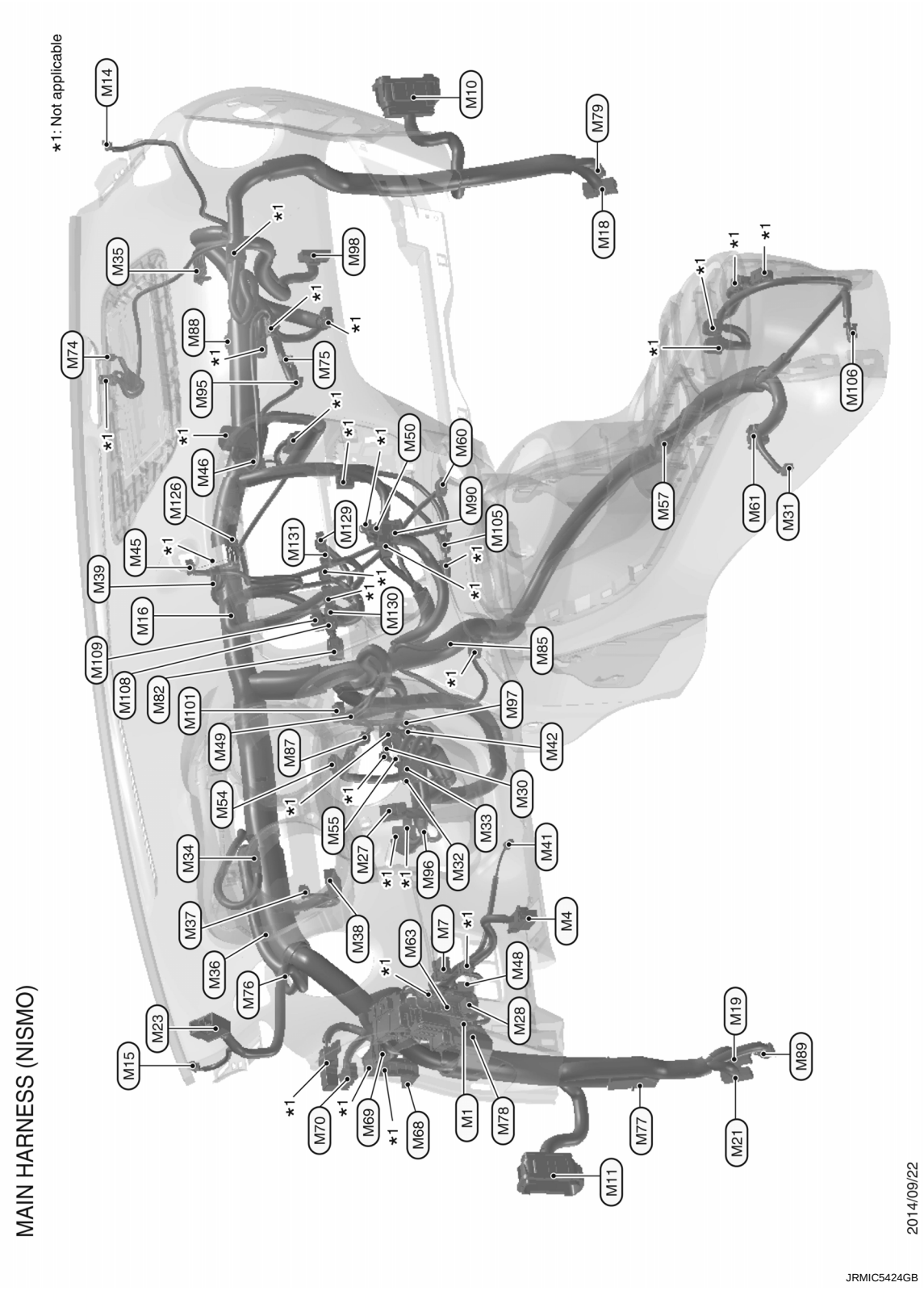


2014/09/22

JRMIC5423GB

NISMO : Main Harness

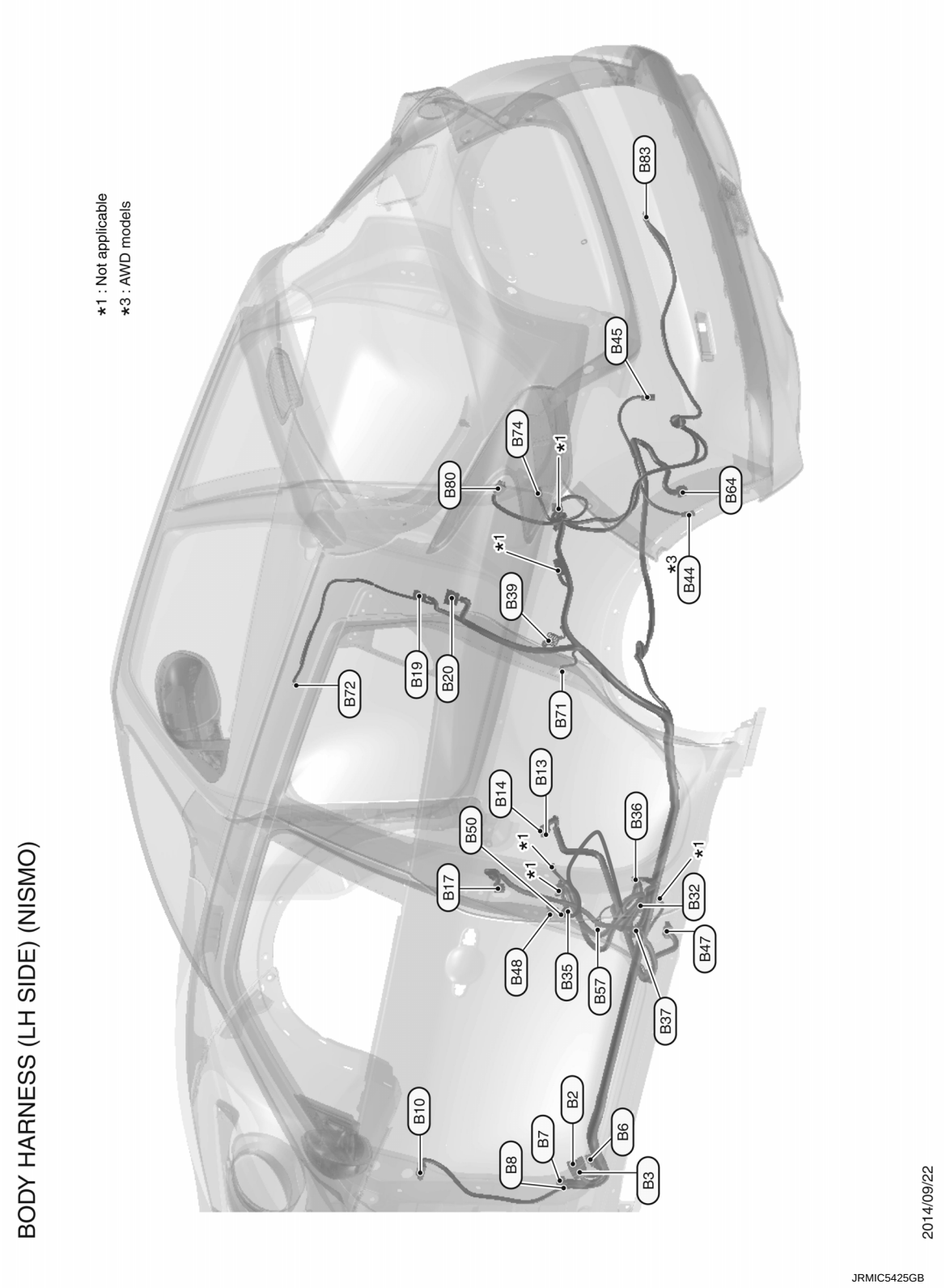
INFOID:0000000011462019

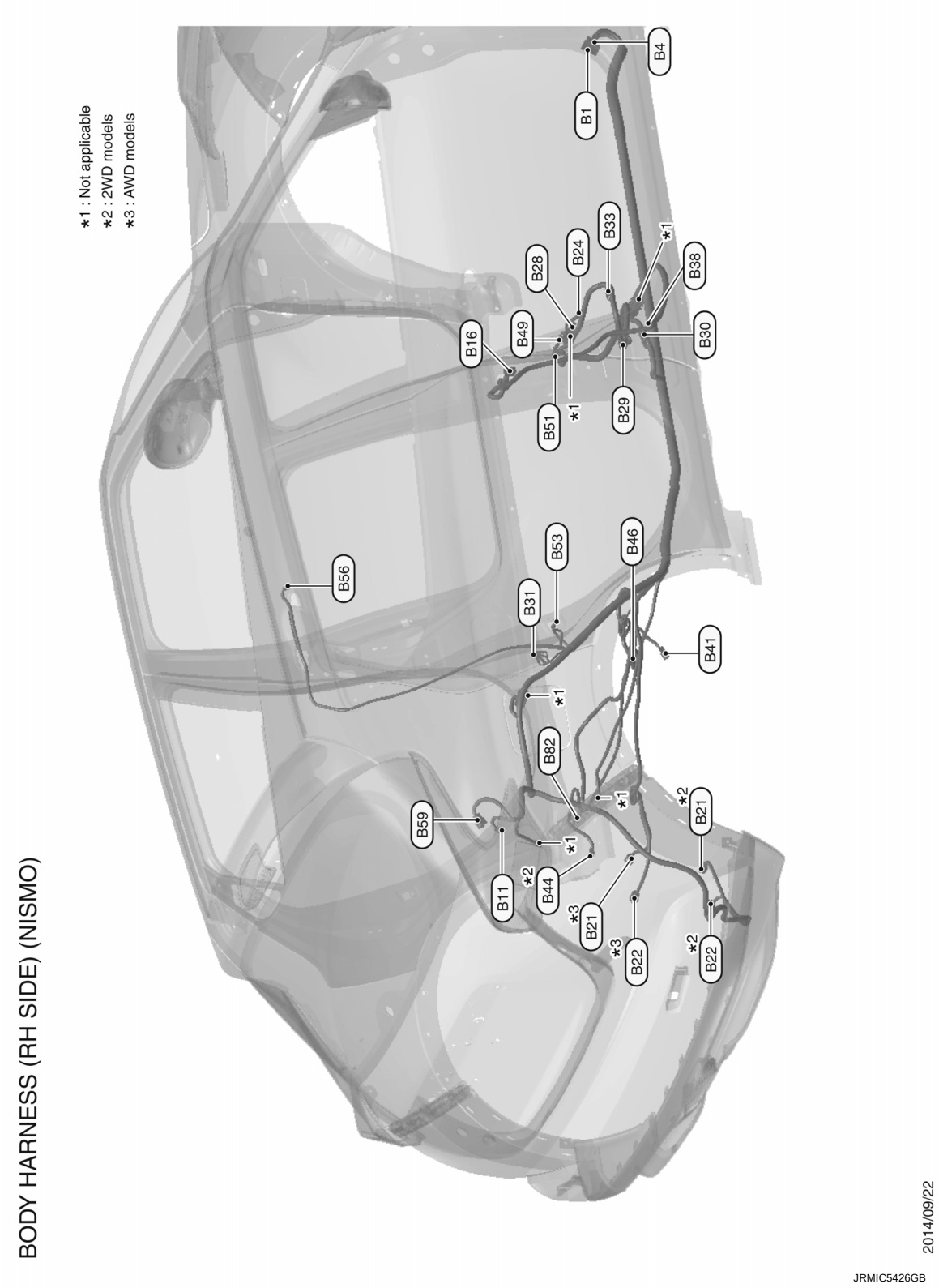


NISMO : Body Harness

INFOID:0000000011462020

LH SIDE

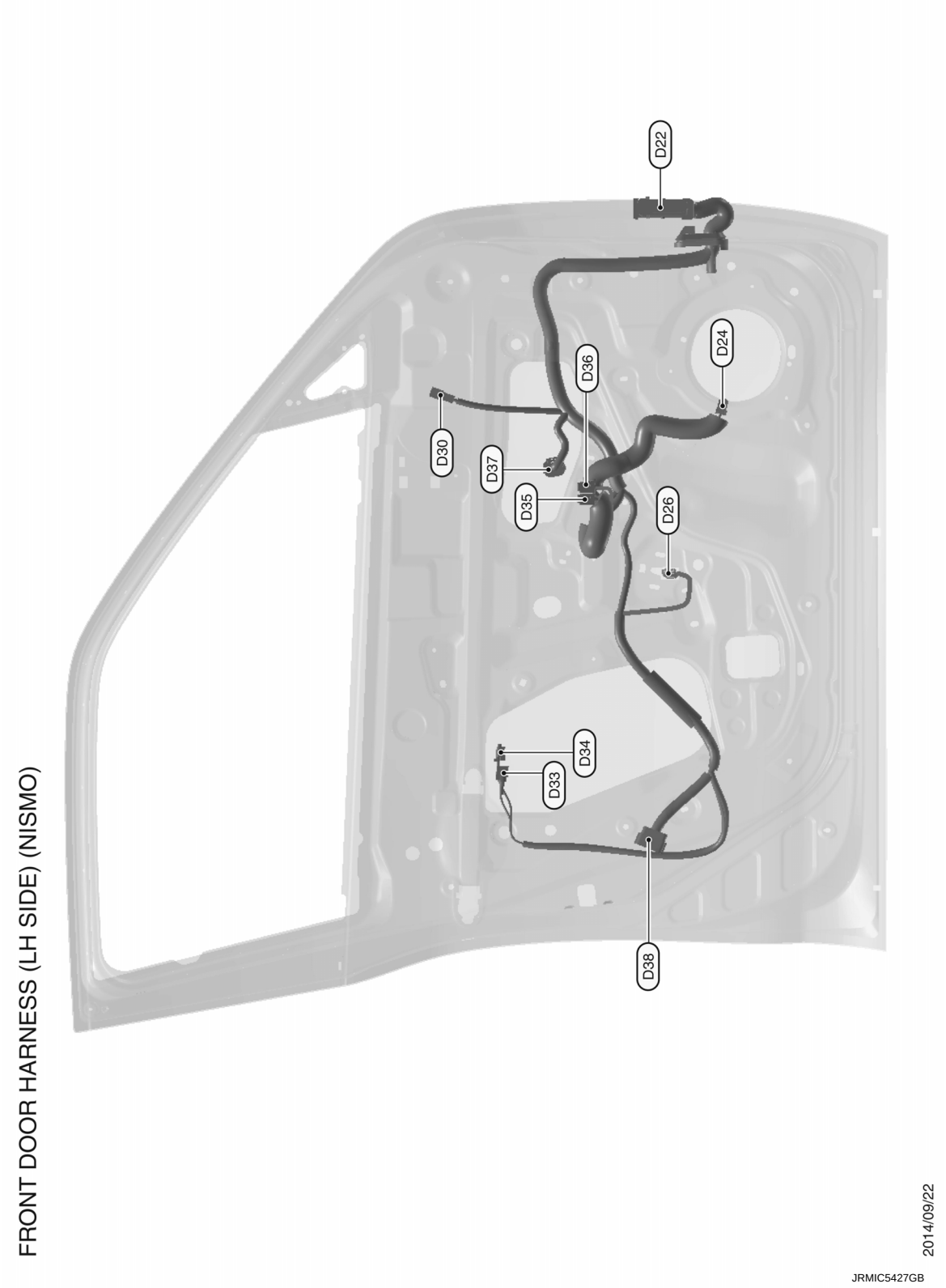



BODY HARNESS (RH SIDE) (NISMO)
∗1 : Not applicable
∗2 : 2WD models
∗3 : AWD models
B4
B1
B33
∗1
B28
B24
B38
B49
B16
B30
B51
∗1
B29
B53
B46
B56
B31
B41
∗1
B82
∗1
∗2
B21
B59
∗1
B11
∗2
B44
∗3
B21
∗3
B22
∗2
B22
2014/09/22
JRMIC5426GB

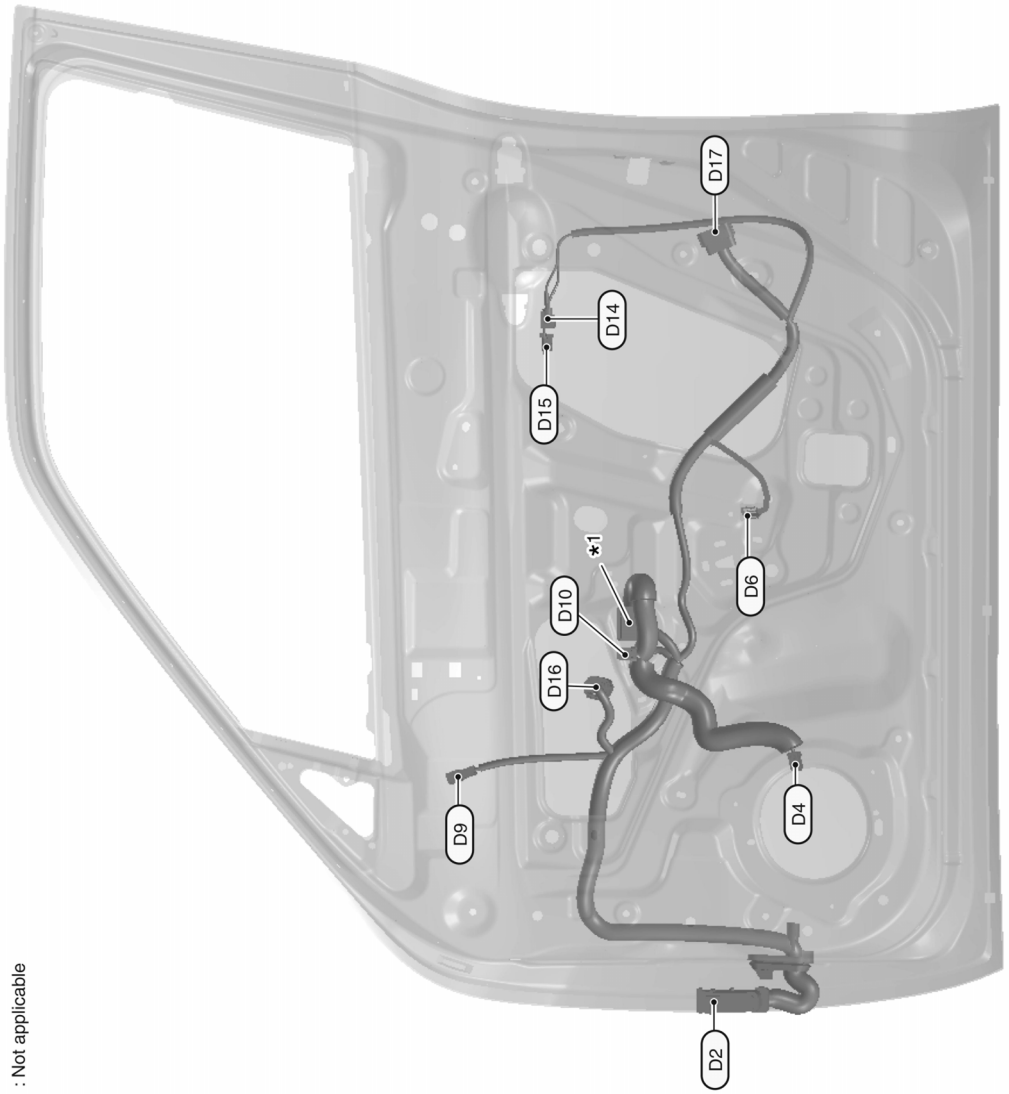
NISMO : Door Harness

INFOID:0000000011462021

FRONT DOOR HARNESS (LH SIDE)

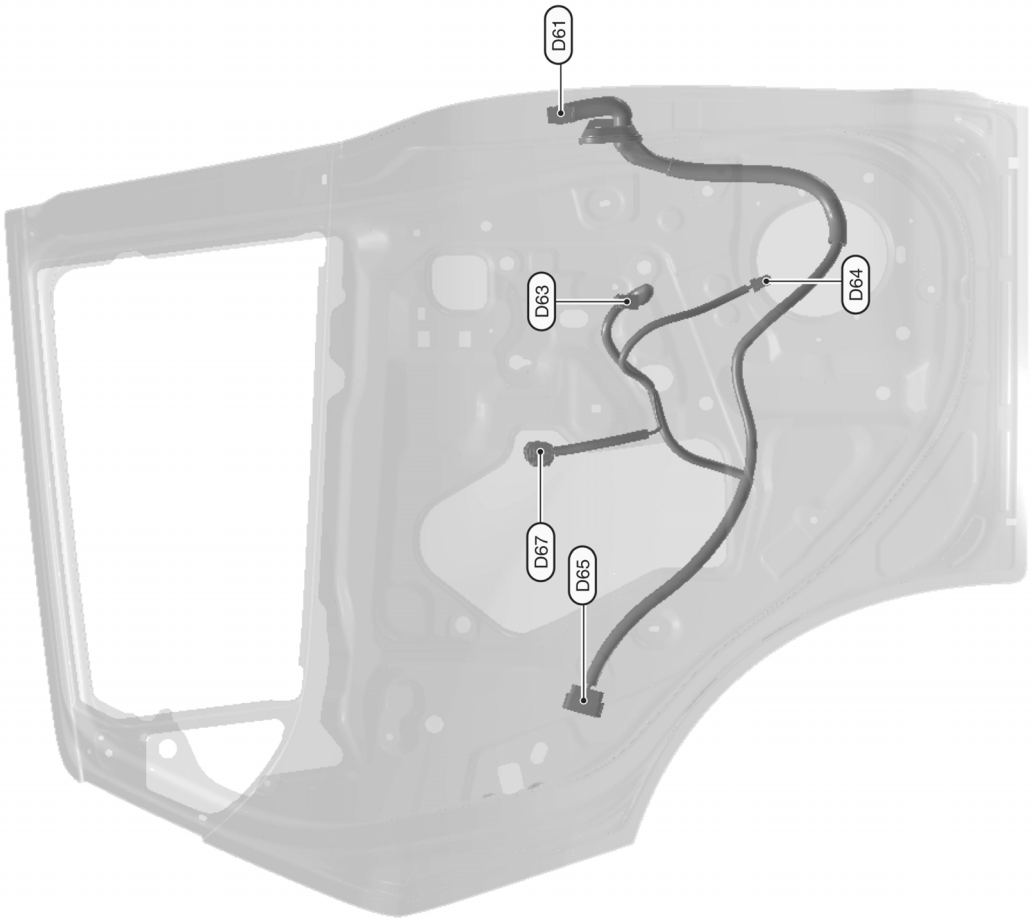


FRONT DOOR HARNESS (RH SIDE) (NISMO)



*1 : Not applicable

REAR DOOR HARNESS (LH SIDE)

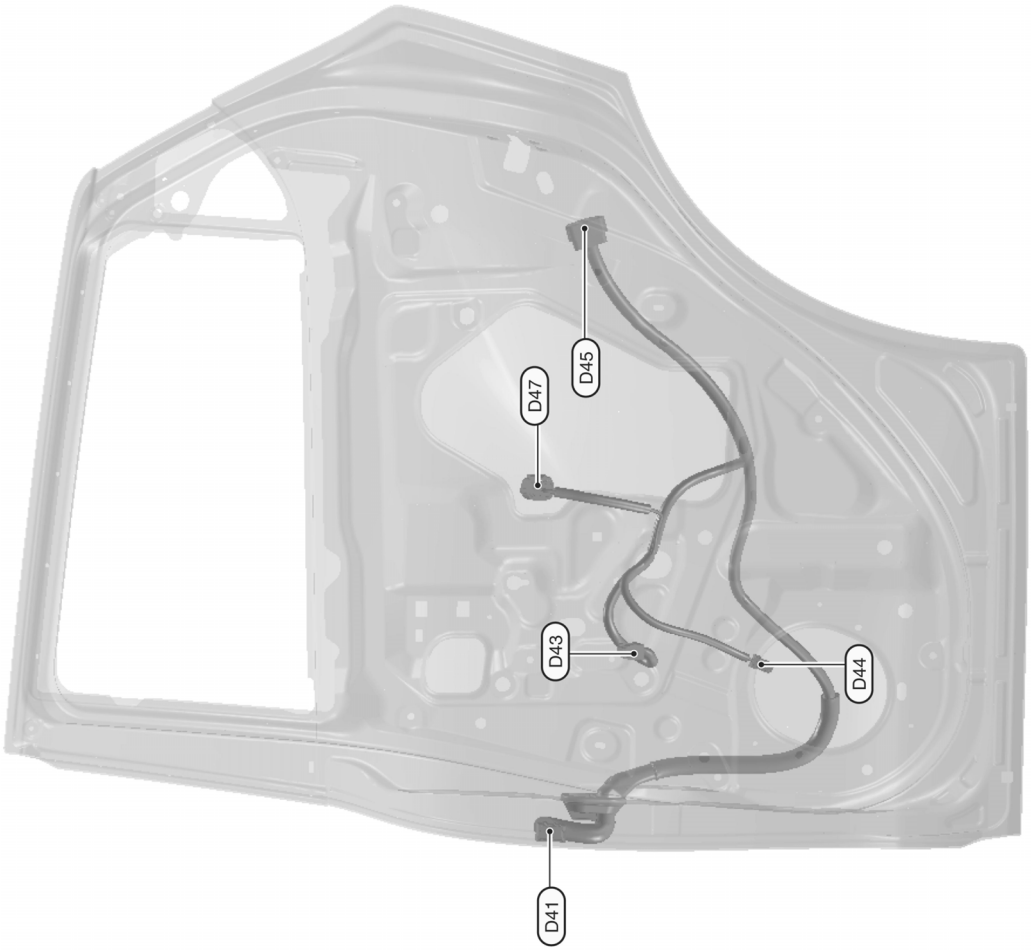


REAR DOOR HARNESS (LH SIDE) (NISMO)

2013/10/01

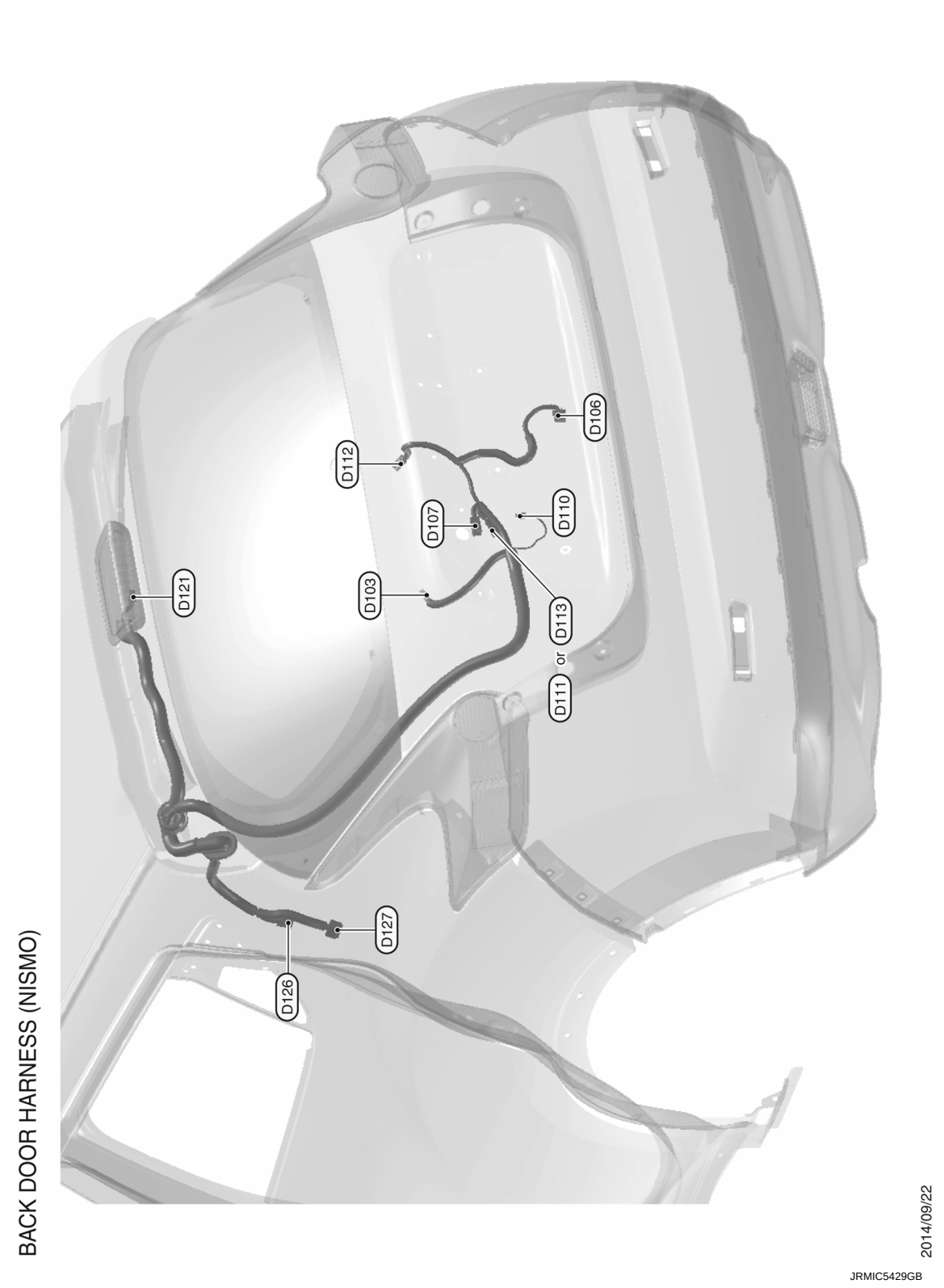
JRMIC3967GB

REAR DOOR HARNESS (RH SIDE) (NISMO)



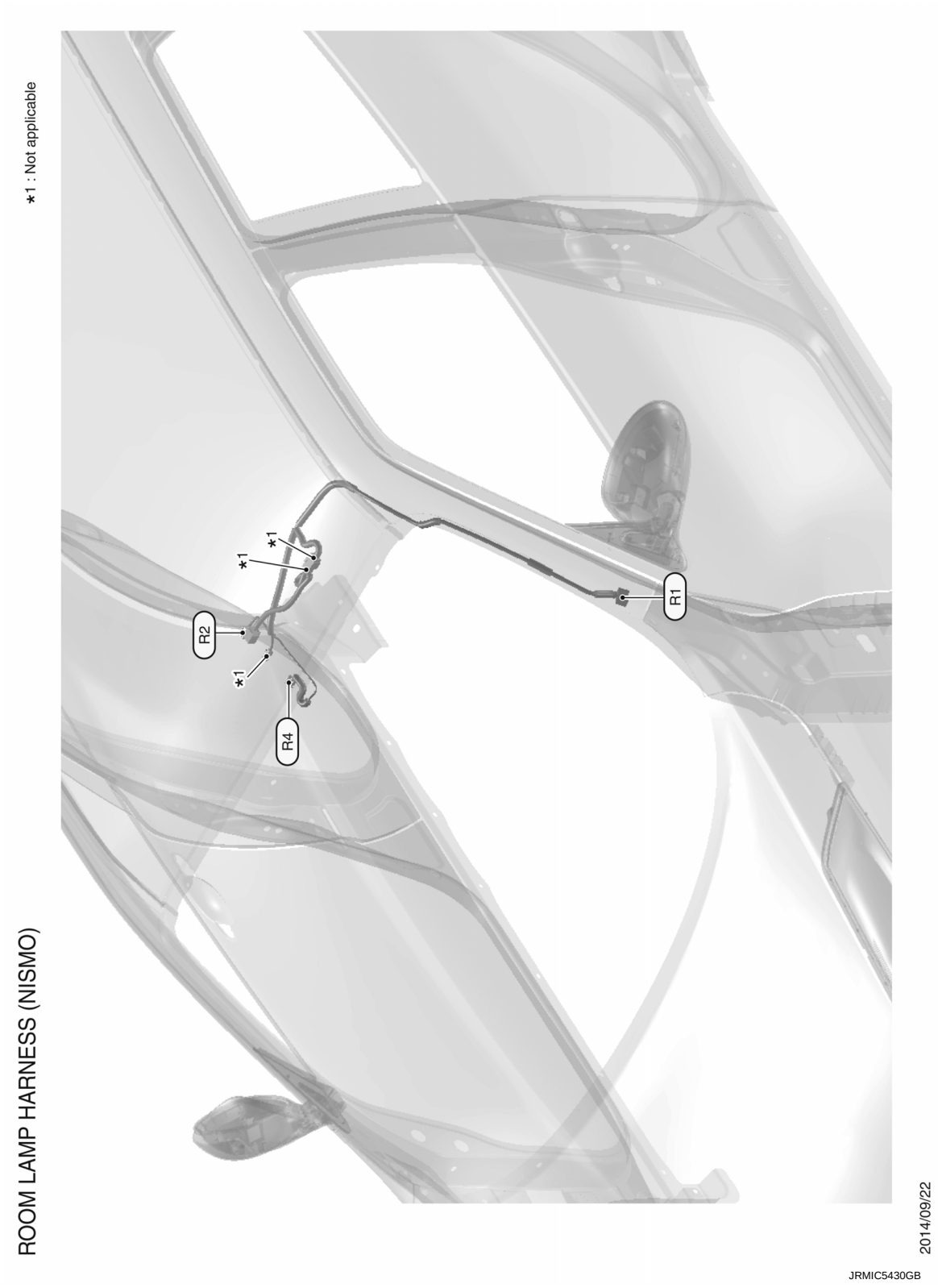
2013/10/01

JRMIC3968GB


BACK DOOR HARNESS (NISMO)
D106
D112
D107
D110
D121
D103
D113
or
D111
D127
D126
2014/09/22
JRMIC5429GB

NISMO : Room Lamp Harness

INFOID:0000000011462022



BASIC INSPECTION

BATTERY INSPECTION

How to Handle Battery

INFOID:0000000011462023

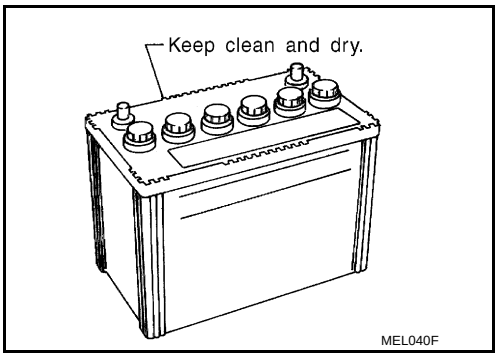
CAUTION:

- **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.**

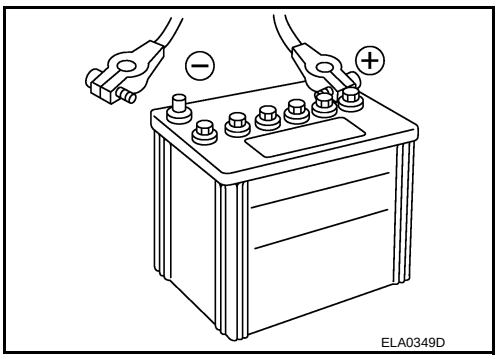
METHODS OF PREVENTING OVER-DISCHARGE

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 fuse switch, turn it off.)



Work Flow

INFOID:0000000011462024

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

To diagnose and confirm the condition of the battery, use the following special service tools:

- EXP-800 NI Battery and electrical diagnostic analyzer
- GR8-1200 NI Multitasking battery and electrical diagnostic station

NOTE:

Refer to the applicable instruction manual for proper battery diagnosis procedures.

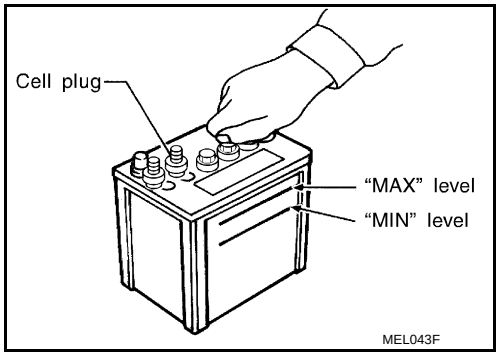
BATTERY DIAGNOSIS WITHOUT EXP-800 NI OR GR8-1200 NI

Check Electrolyte Level

WARNING:

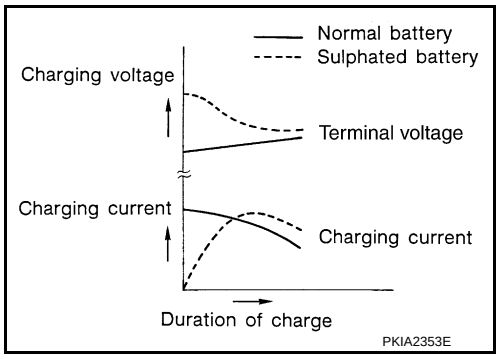
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.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

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



SULPHATION

- **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 sulphation on the cell plates.**
- **To determine if a battery has been "sulphated", 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 sulphated batteries.**
- **A sulphated 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.**



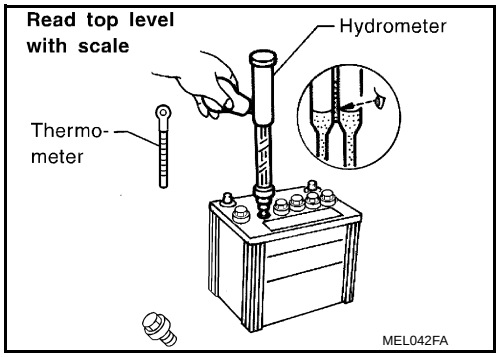
Specific Gravity Check

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	5	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	13	0.5
1/2 charged	26	
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.

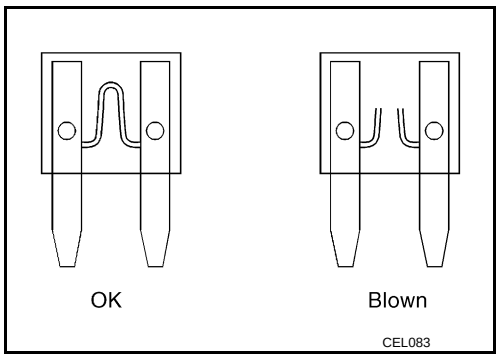
- If, after charging, the specific gravity of any two cells varies more than 0.050, the battery should be replaced.

FUSE INSPECTION

How To Check

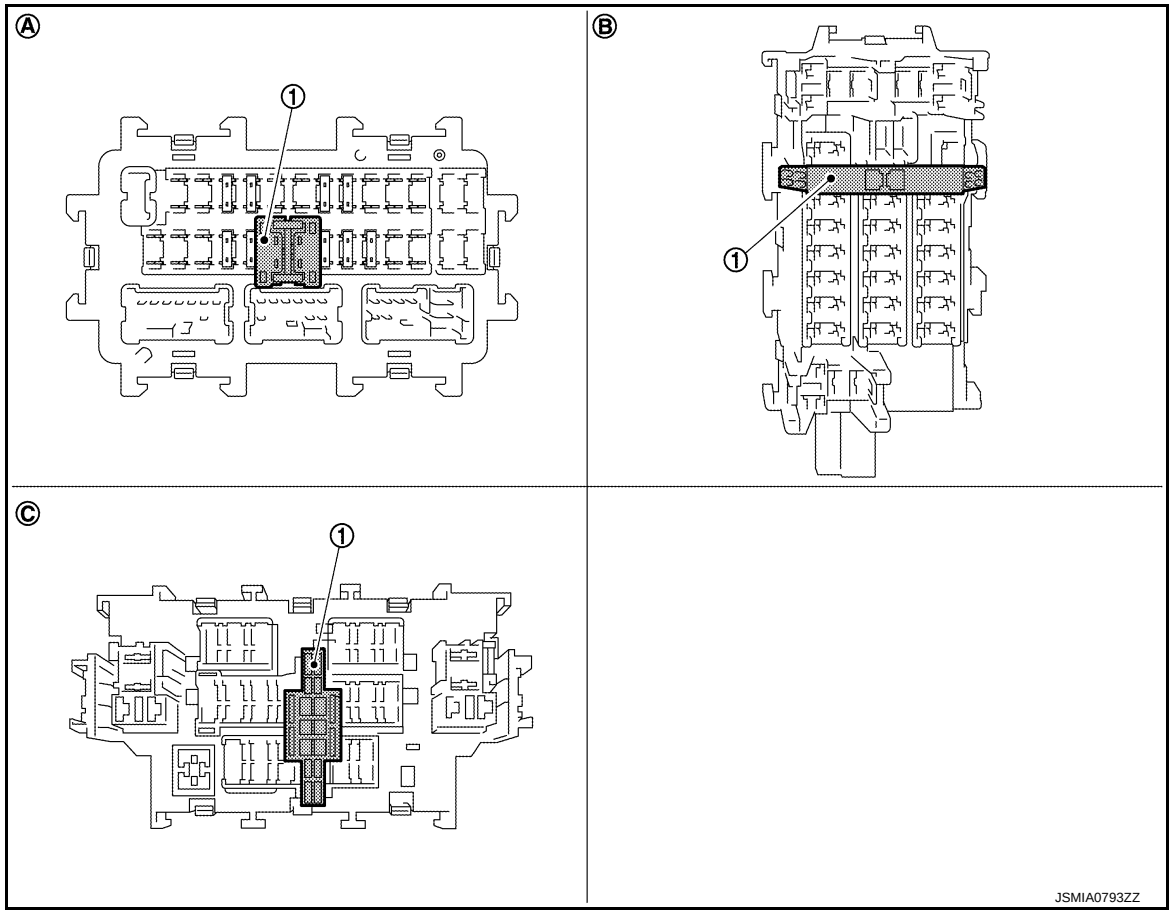
INFOID:0000000011462025

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



EXTENDED STORAGE FUSE SWITCH (IF EQUIPPED)

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



1. Extended storage fuse switch

A. Type A B. Type B C. Type C

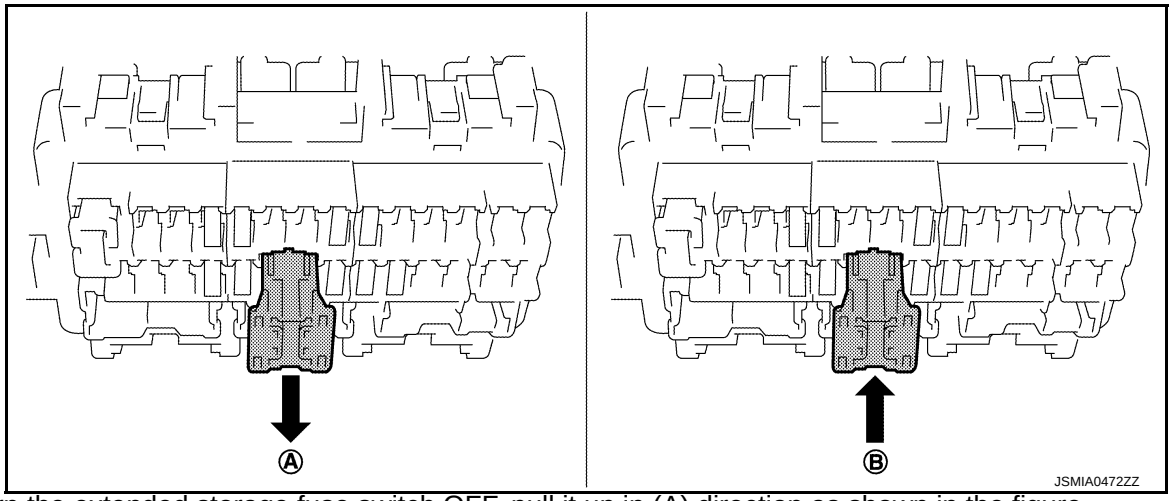
- Remove the extended storage fuse switch when replacing the fuse of extended storage fuse switch.
- Remove the extended storage fuse switch if it causes the interference when the fuse or the other fuses is checked.

How To Extended Storage Fuse Switch ON/OFF

CAUTION:

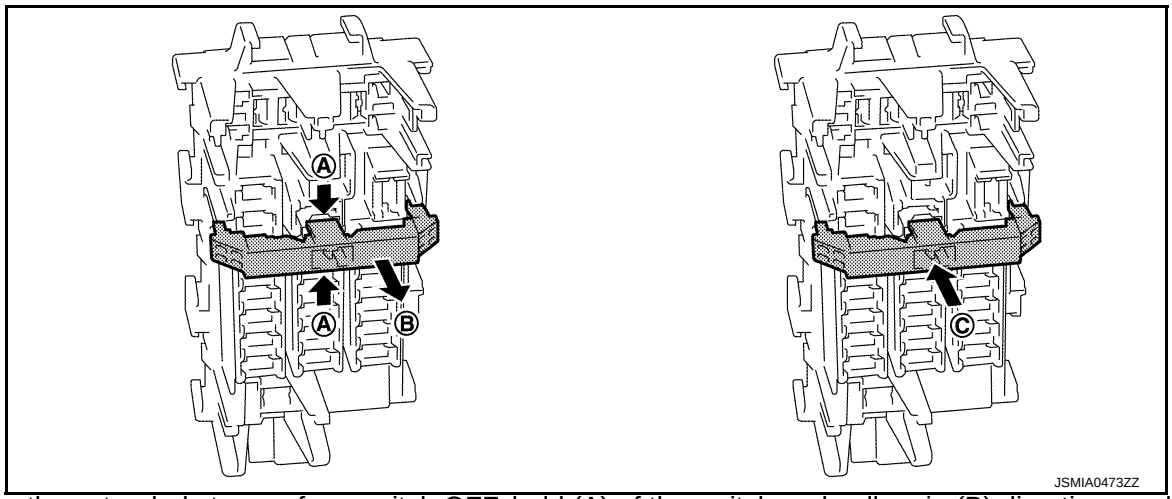
- **Turn the ignition switch OFF when operating the extended storage fuse switch.**
- **Under normal conditions, keep the extended storage fuse switch in ON state. Never operate the extended storage fuse switch except when necessary.**

• Type A



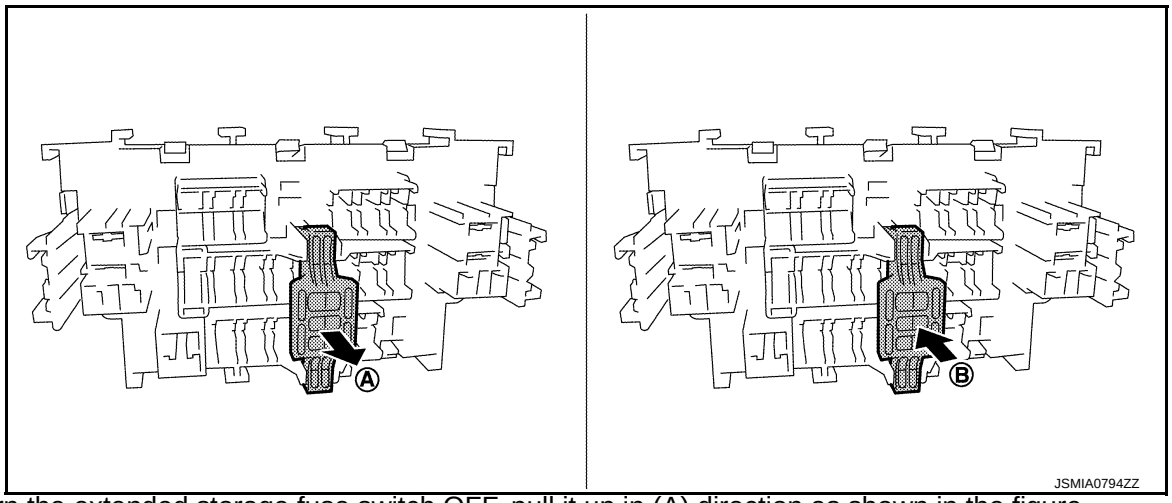
- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

• Type B



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

• Type C

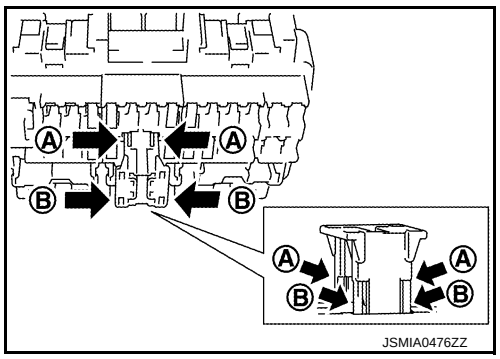


- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

How To Remove Extended Storage Fuse Switch

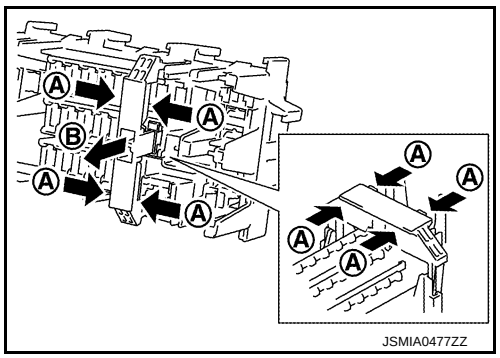
Type A

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



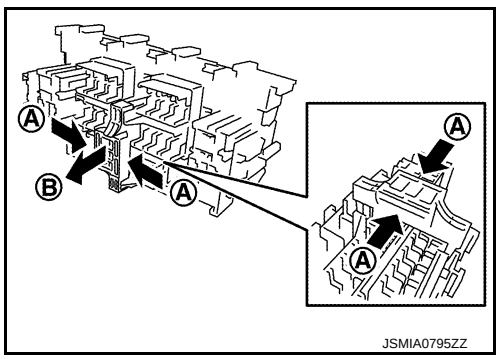
NOTE:
- Extended storage fuse switch and fuse are removed together. Remove fuse from extended storage fuse switch, if necessary.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

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



NOTE:
- Extended storage fuse switch and fuse may be removed together. Remove fuse from extended storage fuse switch, if necessary.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

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



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

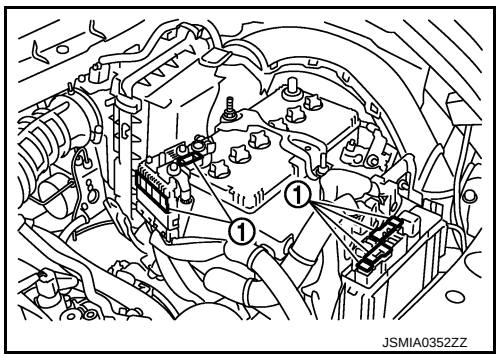
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

FUSIBLE LINK INSPECTION

How To Check

INFOID:0000000011462026

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



1 : Fusible link

CAUTION:

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

REMOVAL AND INSTALLATION

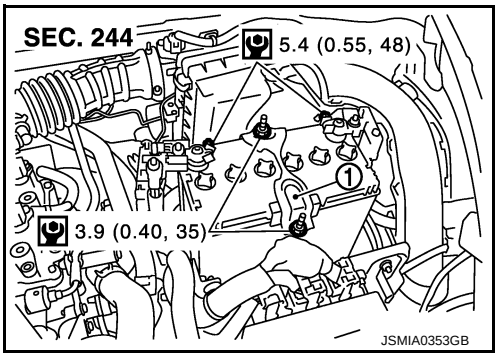
BATTERY

Exploded View

INFOID:0000000011462027

1 : Battery fix frame

: N·m (kg-m, in-lb)



Removal and Installation

INFOID:0000000011462028

REMOVAL

1. Disconnect the battery cable from the negative terminal.
   CAUTION:
   When disconnecting, disconnect the battery cable from the negative terminal first.
2. Remove cover of battery positive terminal.
3. Disconnect the battery cable from the positive terminal.
4. Remove battery fix frame mounting nuts and battery fix frame.
5. Remove battery.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

To install the battery, carefully read the following instructions.

- **When connecting, connect the battery cable to the positive terminal first.**
- **After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.**
- **Check battery terminal for poor connection caused by corrosion.**

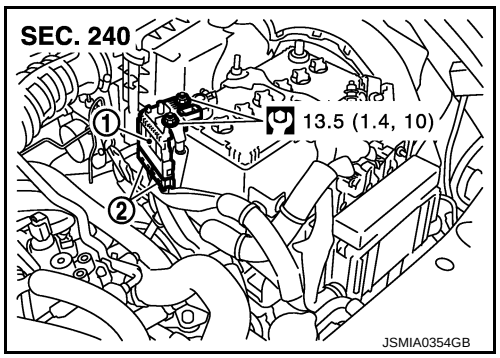
Reset electronic systems as necessary. Refer to GI-60, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection".

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:0000000011462029

1 : Battery terminal with fusible link
2 : Harness connector
: N·m (kg-m, ft-lb)



Removal and Installation

INFOID:0000000011462030

REMOVAL

1. Disconnect the battery cable from the negative terminal.
2. Remove cover of battery positive terminal.
3. Remove harness mounting nut and battery terminal with fusible link mounting nut.
4. Disconnect harness connector and remove battery terminal with fusible link.

INSTALLATION

Install in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:0000000011462031

Type		80D23L-HR
20 hour rate capacity	[V – Ah]	12 – 62
Cold cranking current (For reference value)	[A]	570