SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

HOW TO USE THIS MANUAL

HOW TO USE THIS SECTION

Information

INFOID:0000000010763712

Both “Idling stop system” and “stop/start system” are used in this manual. These indicate the same system.

PRECAUTION

PRECAUTIONS

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

INFOID:0000000010709189

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. Information necessary to service the system safely is included in the “SRS AIR BAG” and “SEAT BELT” of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that 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 “SRS AIR BAG”.**
- **Never 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:

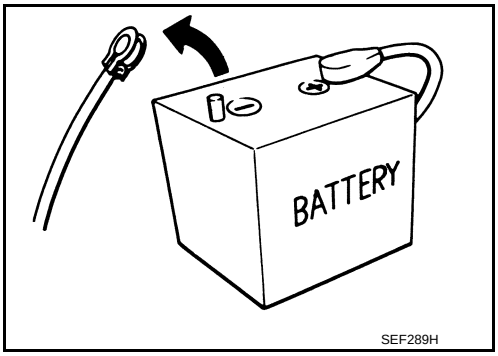
Always observe the following items for preventing accidental activation.

- **When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never 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 3 minutes before performing any service.**

Precautions for Removing Battery Terminal

INFOID:0000000010709245

- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the intelligent key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing “How to disconnect 12V battery terminal” described below.
  NOTE:
  Some ECUs operate for a certain fixed time even after ignition switch is turned OFF and ignition power supply is stopped. If the battery terminal is disconnected before ECU stops, accidental DTC detection or ECU data damage 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.



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HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to Instruction 1 or Instruction 2 described below.
For vehicles parked by ignition switch OFF, refer to Instruction 2.

INSTRUCTION 1

1. Open the hood.

2. Turn key switch to the OFF position with the driver side door opened.
3. Get out of the vehicle and close the driver side door.
4. Wait at least 3 minutes. For vehicle with the engine listed below, remove the battery terminal after a lapse of the specified time.

D4D engine	: 20 minutes
HRA2DDT	: 12 minutes
K9K engine	: 4 minutes
M9R engine	: 4 minutes
R9M engine	: 4 minutes
V9X engine	: 4 minutes

CAUTION:
While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

5. Remove 12V battery terminal.
CAUTION:
After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

INSTRUCTION 2 (FOR VEHICLES PARKED BY IGNITION SWITCH OFF)

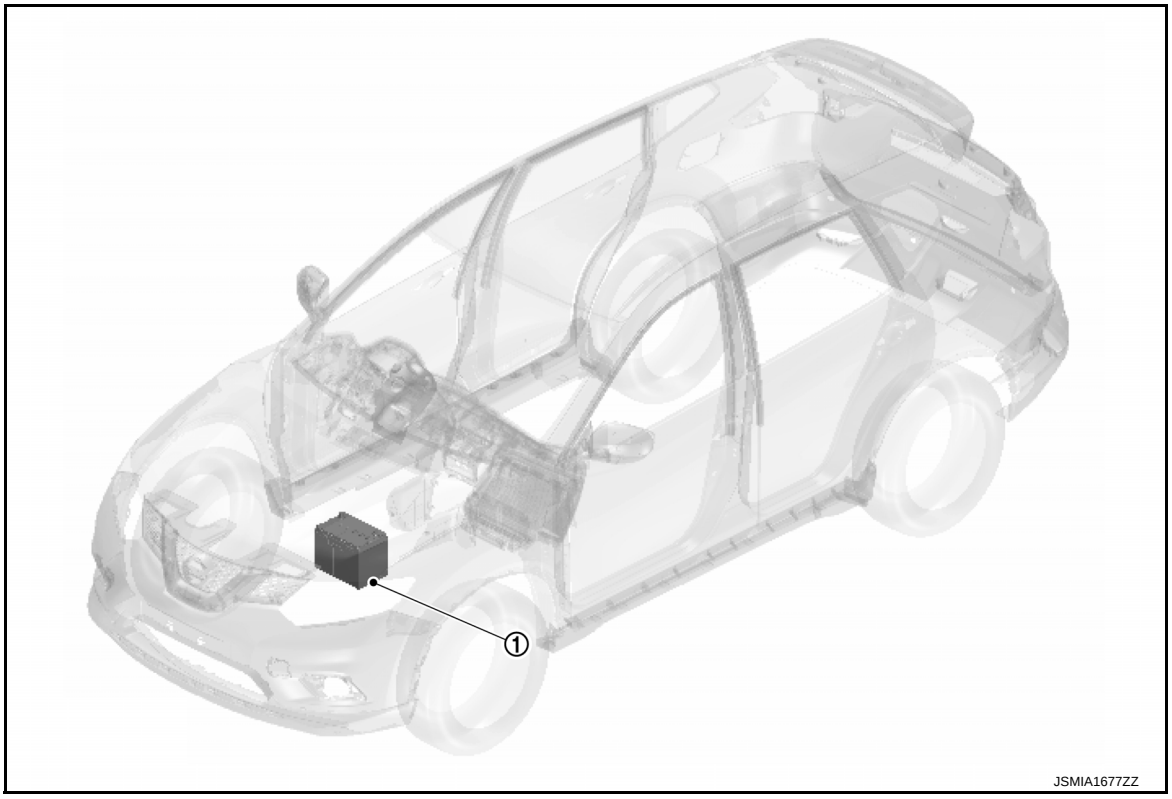
1. Unlock the door with intelligent key or remote keyless entry.
NOTE:
At this moment, ACC power is supplied.
2. Open the driver side door.
3. Open the hood.
4. Close the driver side door.
5. Wait at least 3 minutes.
CAUTION:
While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.
6. Remove 12V battery terminal.
CAUTION:
After installing 12V battery, always check self-diagnosis results of all ECUs and erase DTC.

SYSTEM DESCRIPTION

COMPONENT PARTS

Component Parts Location

INFOID:0000000010709193



No.	Component	Function
①	Battery	Refer to PG-6, "Battery".

Battery

INFOID:0000000010709194

R9M

Type		S-95
20 hour rate capacity	[V – Ah]	12 – 75
Cold cranking current (For reference value)	[A]	660

CAUTION:

It is mandatory to always use a battery designed for the stop/start system. Failure to do this causes early deterioration or system malfunction.

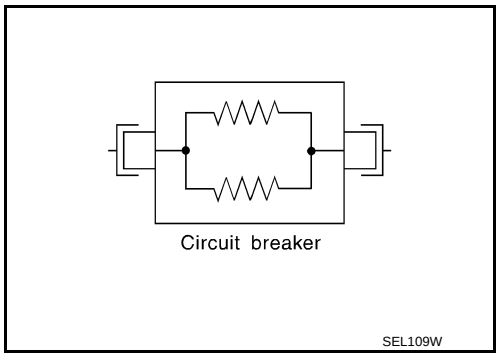
EXCEPT FOR R9M

Type		80D23L
20 hour rate capacity	[V – Ah]	12 – 62
Cold cranking current (For reference value)	[A]	582

Circuit Breaker

INFOID:0000000010709195

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.



Harness Connector

INFOID:0000000010709196

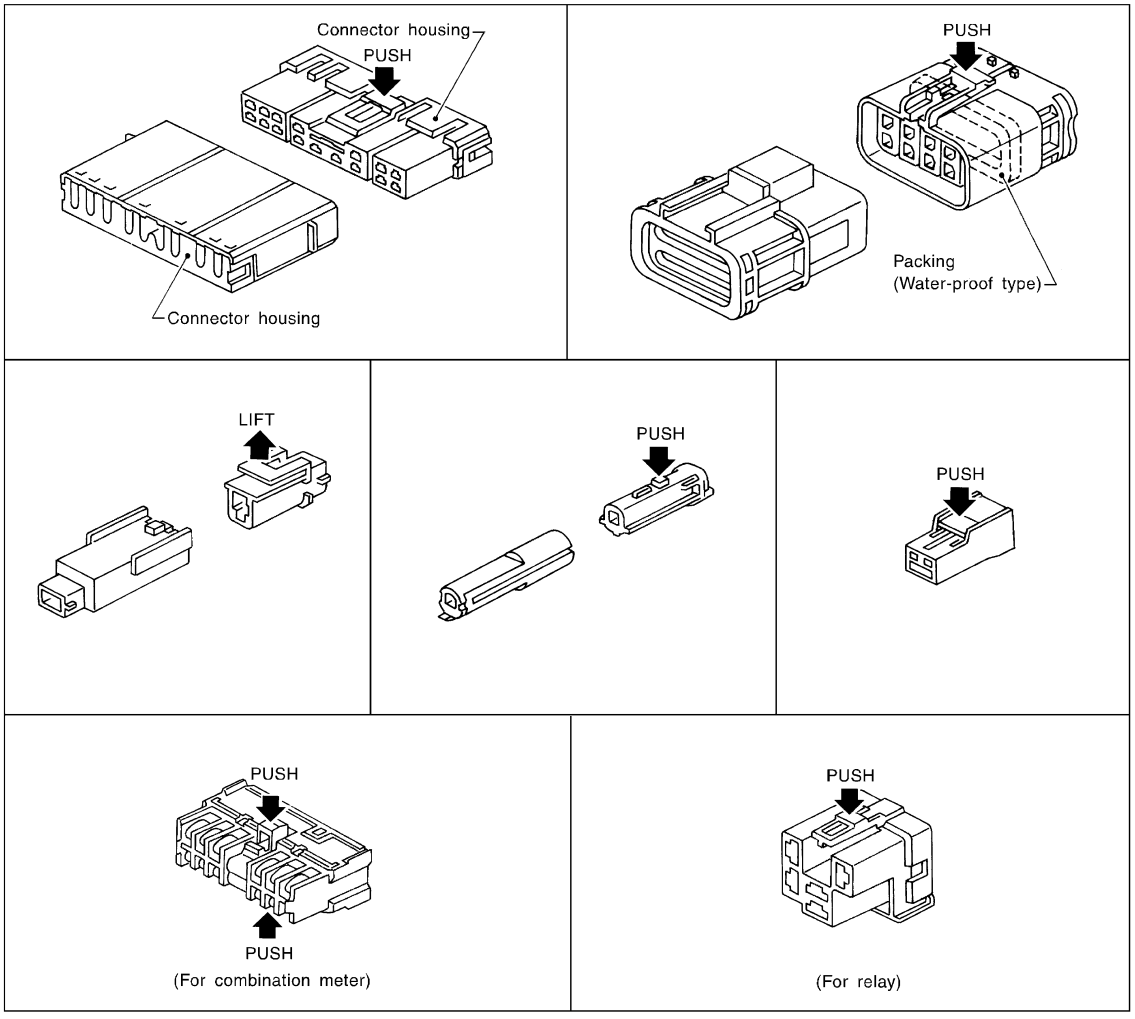
HARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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:

To prevent damage to the parts, never pull the harness or wires when disconnecting the connector.

[Example]



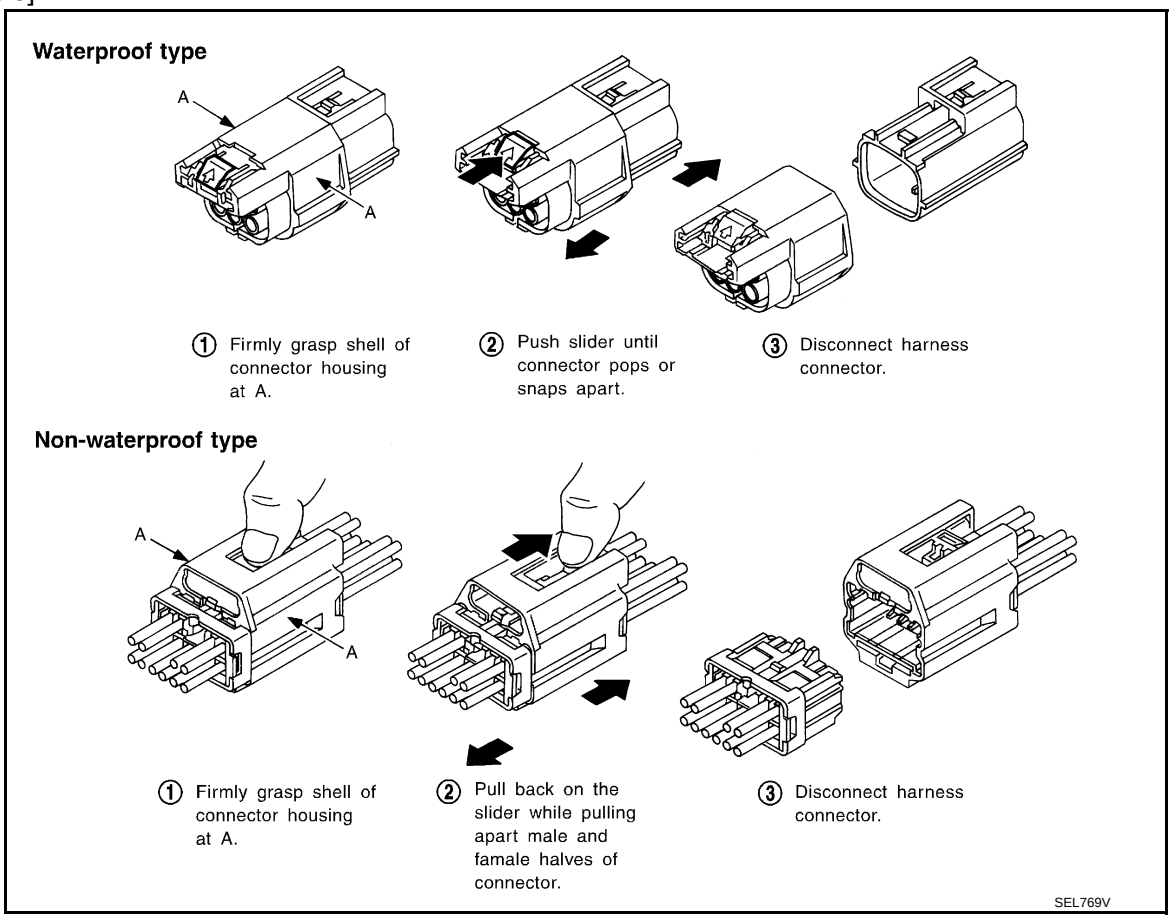
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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:

- **To prevent damage to the parts, never pull the harness or wires when disconnecting the connector.**
- **To prevent damage to the parts, be careful not to damage the connector support bracket when disconnecting the connector.**

[Example]

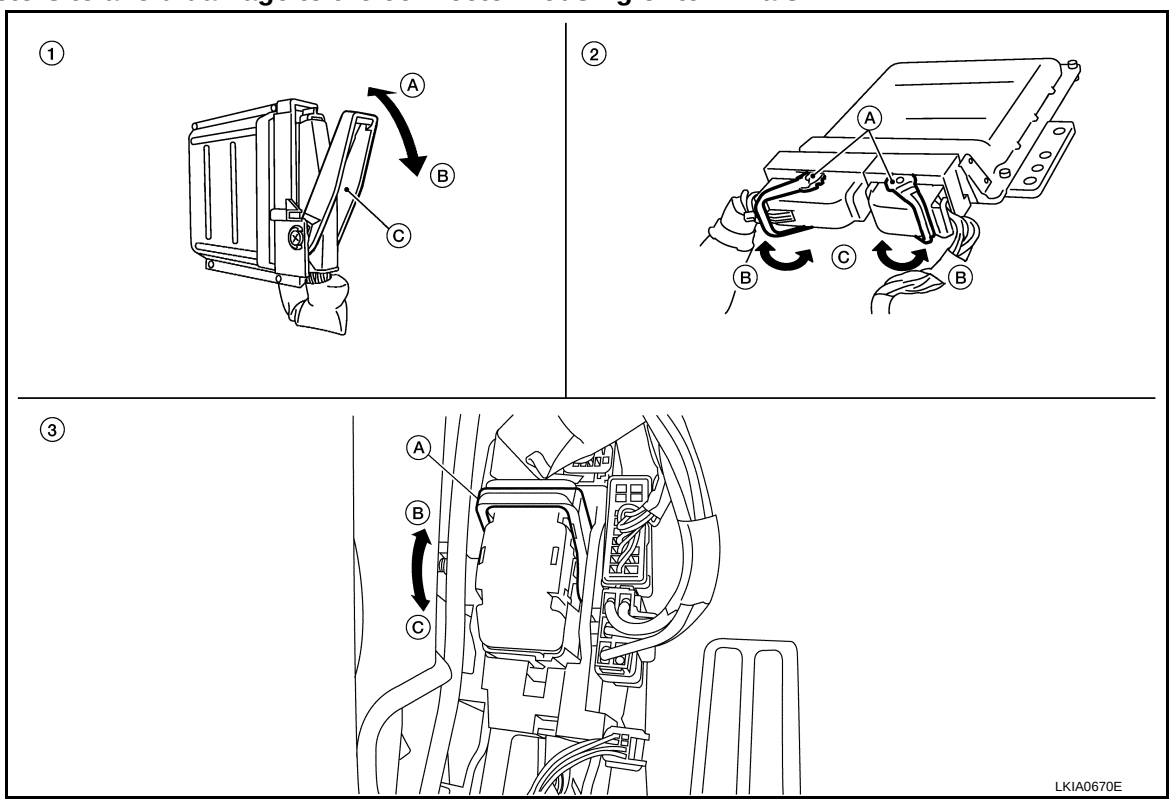


HARNESS CONNECTOR (LEVER LOCKING TYPE)

- 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
- Ⓐ Fasten
- Ⓑ Loosen
- Ⓒ Lever

② Control unit with dual levers
- Ⓐ Levers
- Ⓑ Fasten
- Ⓒ Loosen

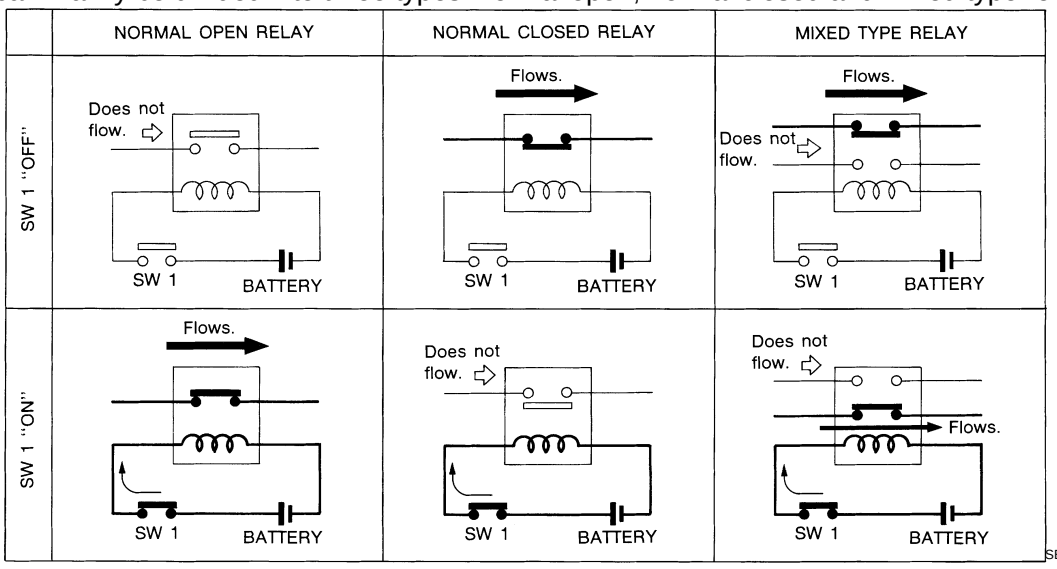
③ SMJ connector
- Ⓐ Lever
- Ⓑ Fasten
- Ⓒ Loosen

Standardized Relay

INFOID:0000000010709197

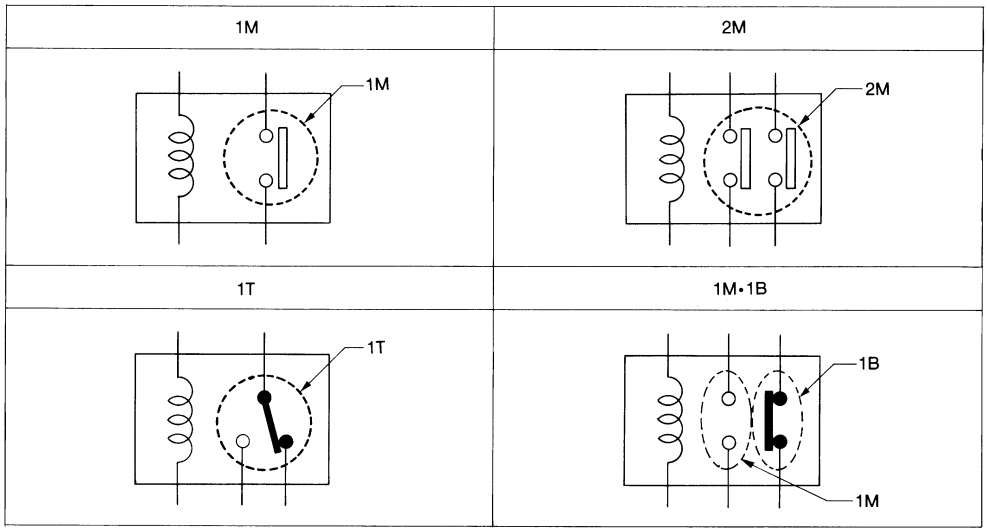
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



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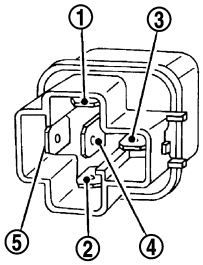
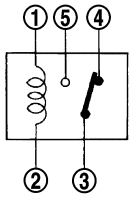
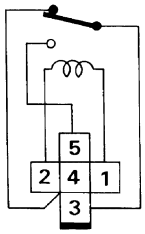
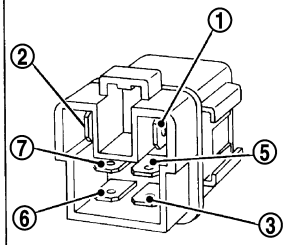
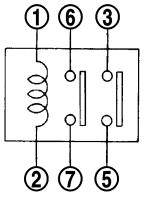
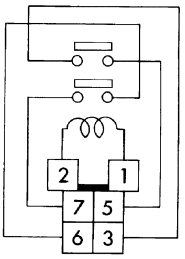
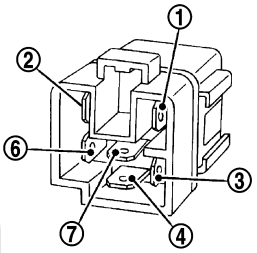
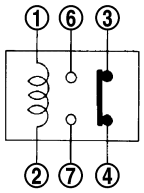
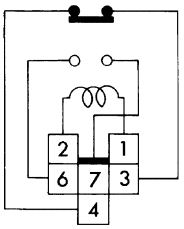
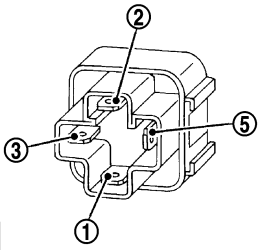
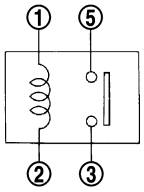
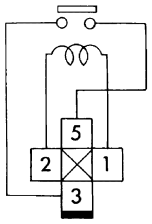
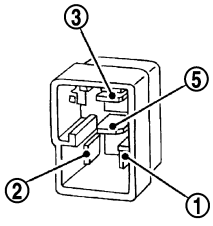
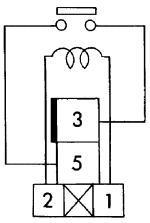
Type	Outer view	Circuit	Connector symbol and connection	Case color
1T				BLACK
2M				BROWN
1M•1B				GRAY
1M				BLACK
				BLUE

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

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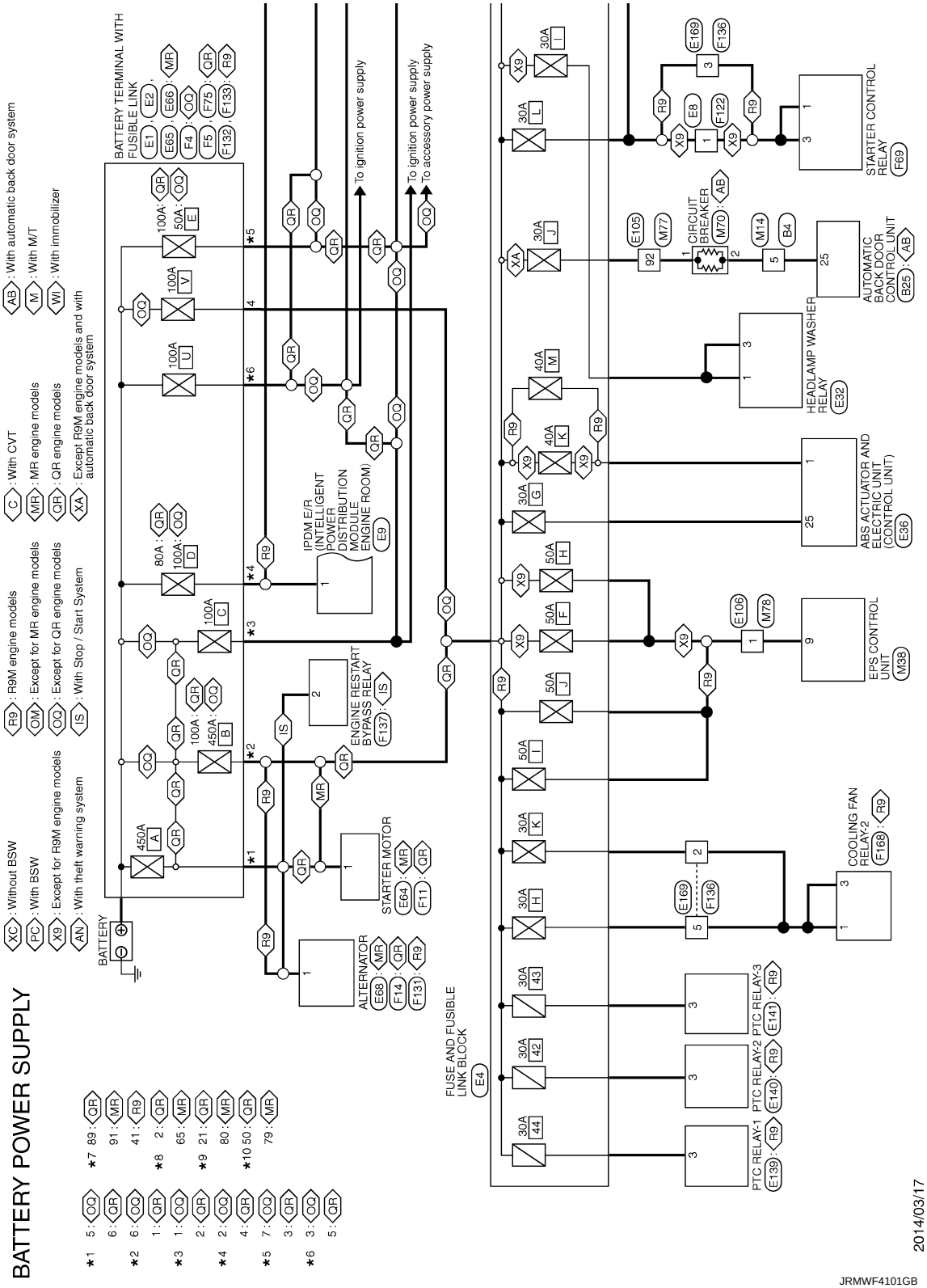
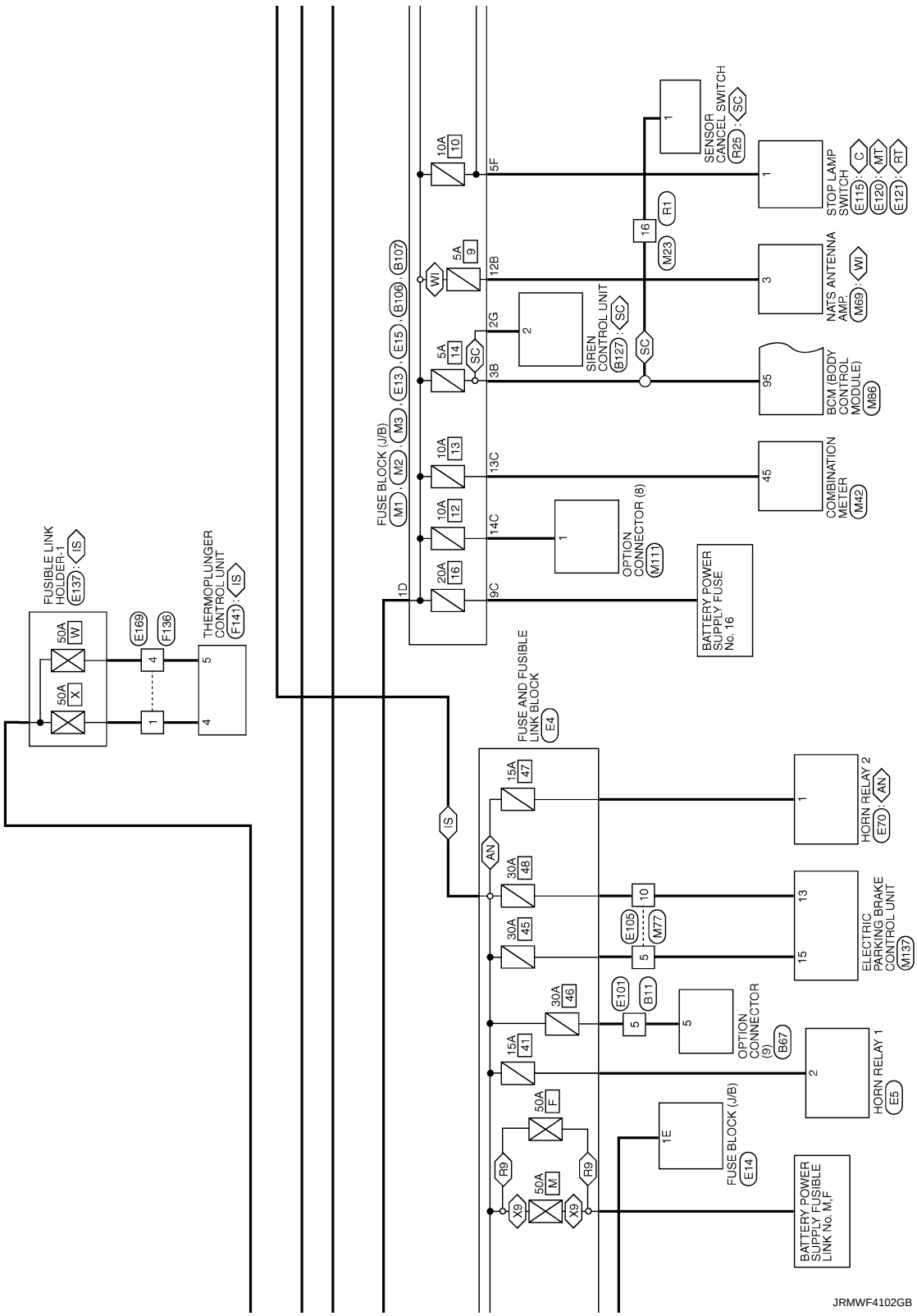
WIRING DIAGRAM

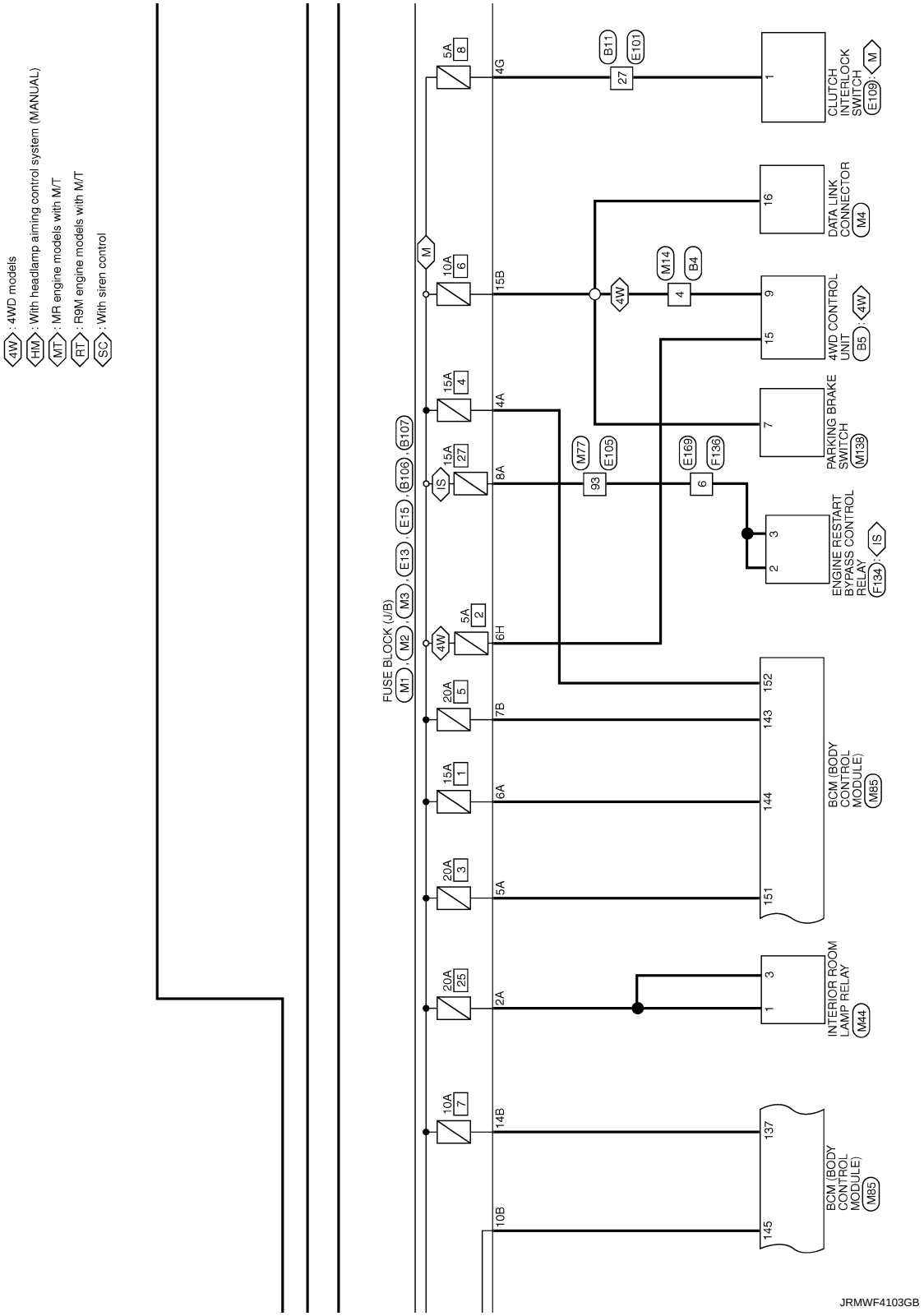
POWER SUPPLY ROUTING CIRCUIT

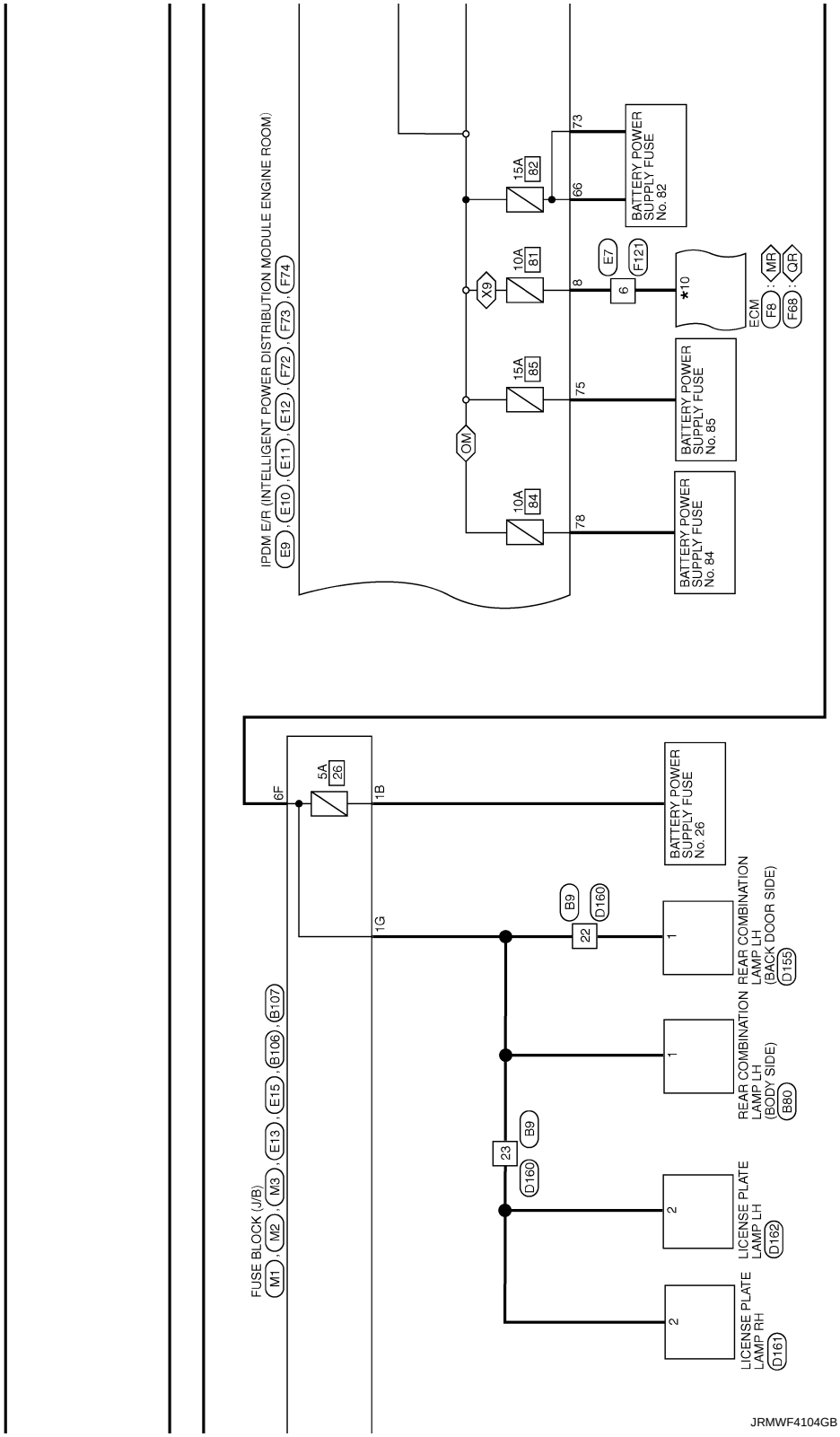
Wiring Diagram - BATTERY POWER SUPPLY -

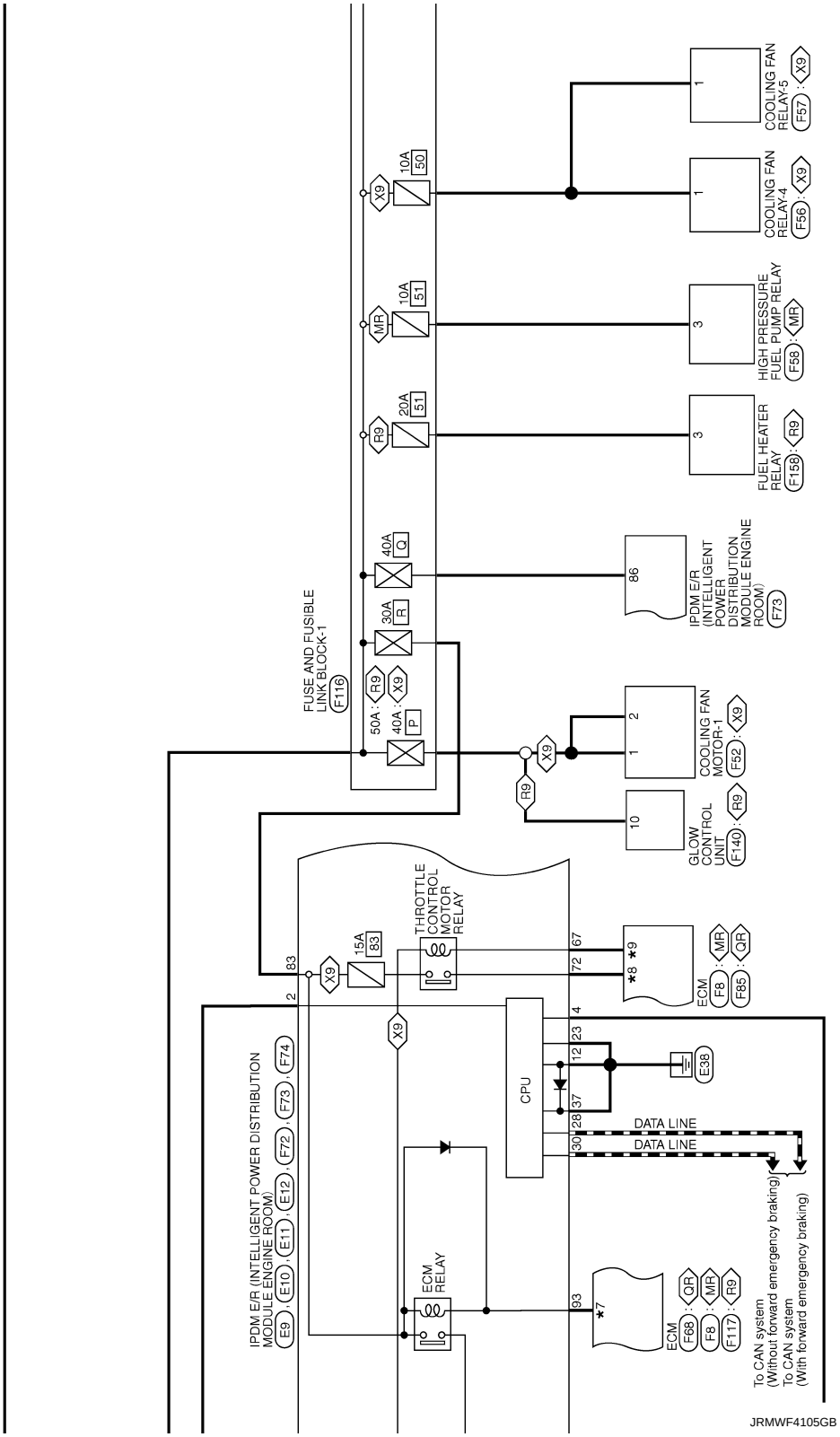
INFOID:0000000010709198

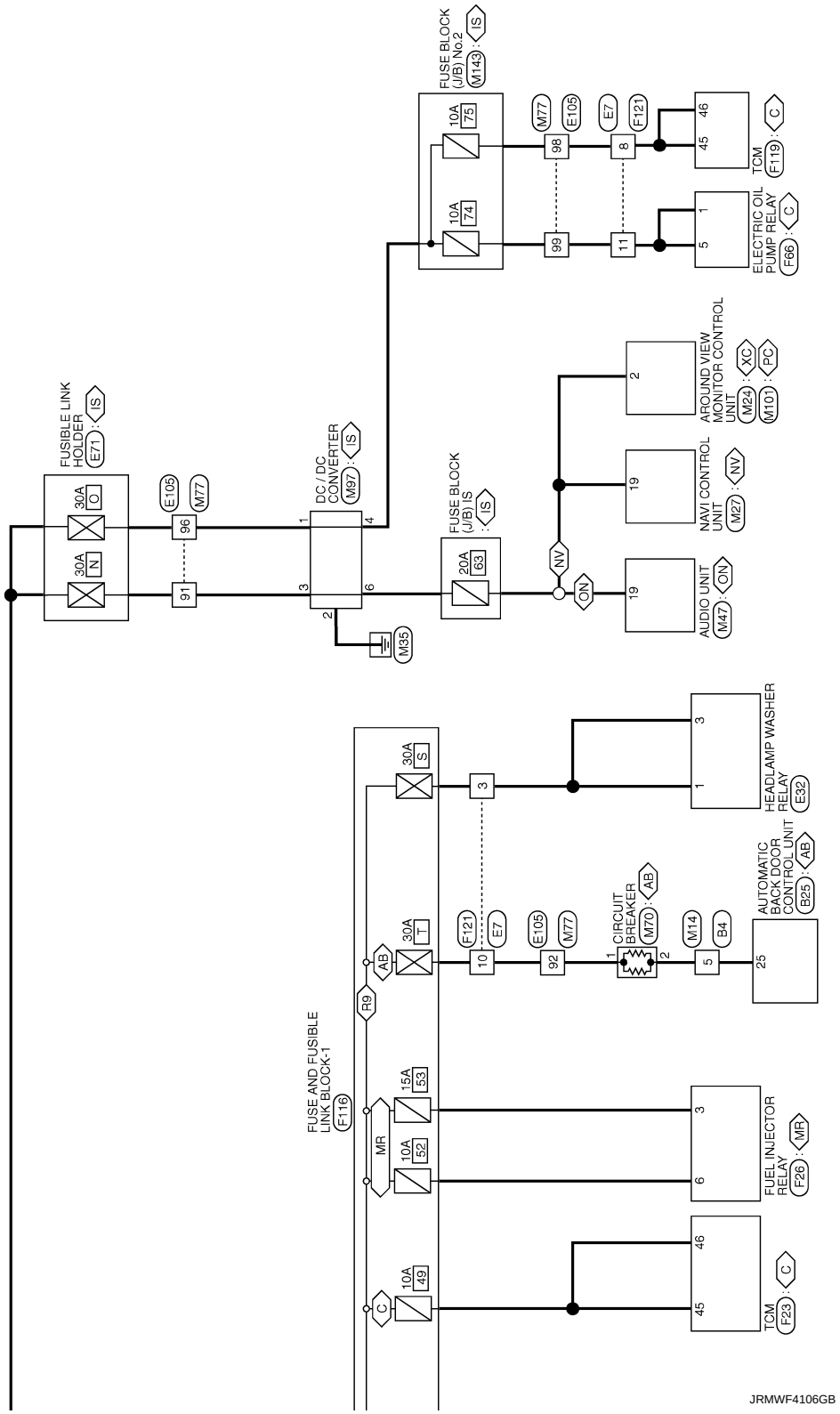


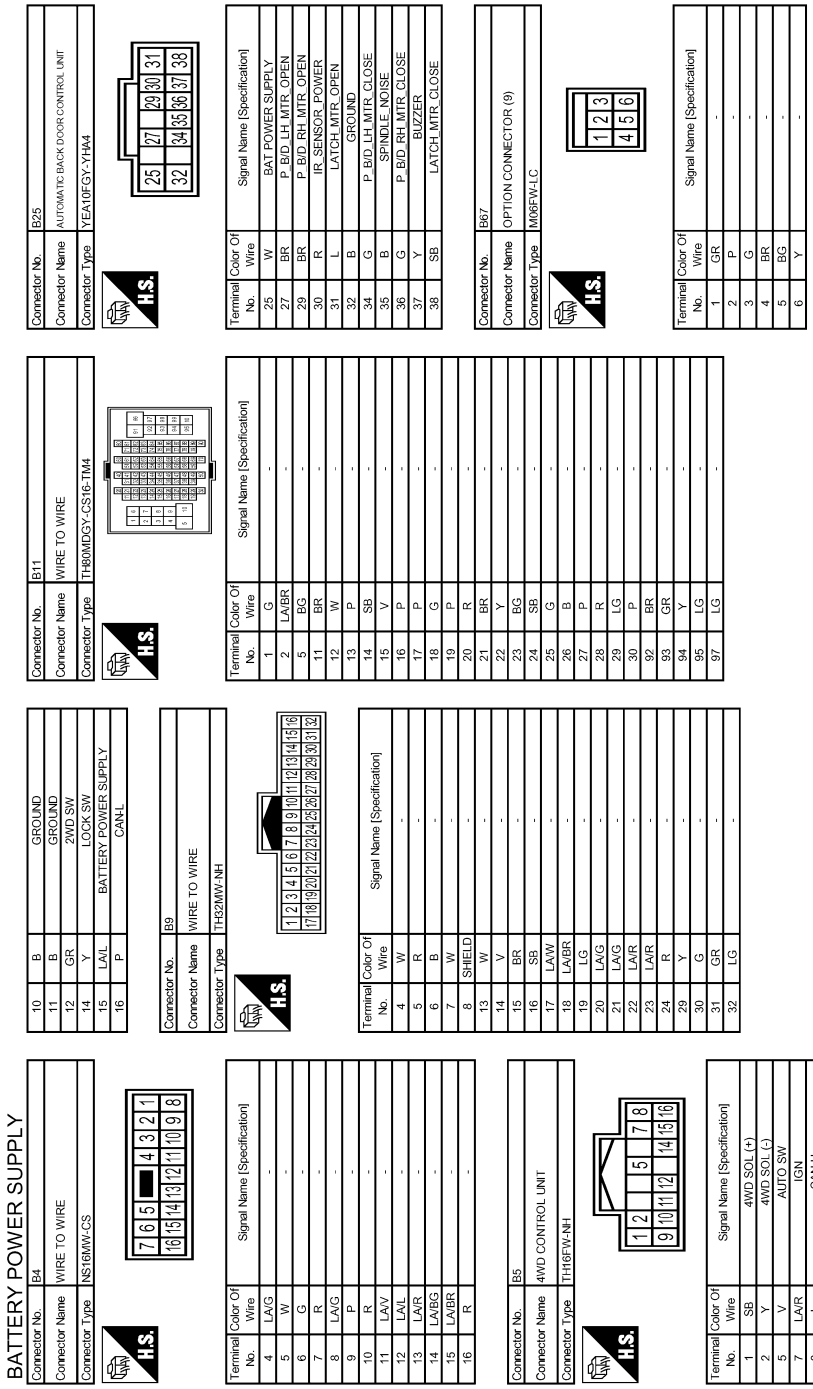

FUSIBLE LINK HOLDER-1 (E137) : IS
50A W
50A X
E169
F136
THERMOPLUNGER CONTROL UNIT (F141) : IS
FUSE BLOCK (J/B) (M1) : (M2) : M3 : E13 : E15 : B106 : B107
10A 10
5A 9
WI
5A 14
SC
10A 13
10A 12
20A 16
1D
5F
12B
2G
3B
13C
14C
9C
SENSOR CANCEL SWITCH (R25) : SC
STOP LAMP SWITCH (E115) : C (E120) : MT (E121) : RT
NATS ANTENNA AMP. (M69) : WI
SIREN CONTROL UNIT (B127) : SC
BCM (BODY CONTROL MODULE) (M66)
COMBINATION METER (M42)
OPTION CONNECTOR (8) (M111)
BATTERY POWER SUPPLY FUSE No. 16
R1
M23
FUSE AND FUSIBLE LINK BLOCK (E4)
IS
AN
15A 47
30A 48
30A 45
30A 46
15A 41
50A F
50A M
R9
X9
HORN RELAY 2 (E70) : AN
ELECTRIC PARKING BRAKE CONTROL UNIT (M137)
E105
M77
E101
B11
OPTION CONNECTOR (9) (B67)
HORN RELAY 1 (E5)
FUSE BLOCK (J/B) (E14)
BATTERY POWER SUPPLY FUSIBLE LINK No. M,F
JRMWF4102GB


4W : 4WD models
HM : With headlamp aiming control system (MANUAL)
MT : MR engine models with M/T
RT : R9M engine models with M/T
SC : With siren control
FUSE BLOCK (J/B)
M1, M2, M3, E13, E15, B106, B107
5A 8
4G
B11
E101
27
1
CLUTCH INTERLOCK SWITCH
E109
M
10A 6
15B
16
DATA LINK CONNECTOR
M4
4W
M14
4
B4
9
15
4WD CONTROL UNIT
B5
4W
15A 4
4A
7
PARKING BRAKE SWITCH
M138
IS
15A 27
8A
M77
E105
93
E169
F136
6
3
2
ENGINE RESTART BYPASS CONTROL RELAY
F134
IS
4W
5A 2
6H
20A 5
7B
152
143
15A 1
6A
144
20A 3
5A
151
BCM (BODY CONTROL MODULE)
M85
20A 25
2A
3
1
INTERIOR ROOM LAMP RELAY
M44
10A 7
14B
137
10B
145
BCM (BODY CONTROL MODULE)
M85
JRMWF4103GB


IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9, E10, E11, E12, F72, F73, F74
15A 82
10A 81
15A 85
10A 84
X9
OM
73
66
8
75
78
6
E7
F121
*10
ECM
F8 : MR
F68 : QR
BATTERY POWER SUPPLY FUSE No. 82
BATTERY POWER SUPPLY FUSE No. 85
BATTERY POWER SUPPLY FUSE No. 84
FUSE BLOCK (J/B)
M1, M2, M3, E13, E15, B106, B107
5A 26
6F
1B
1G
BATTERY POWER SUPPLY FUSE No. 26
B9
D160
22
23
1
2
REAR COMBINATION LAMP LH (BACK DOOR SIDE) D155
REAR COMBINATION LAMP LH (BODY SIDE) B80
LICENSE PLATE LAMP LH D162
LICENSE PLATE LAMP RH D161
JRMWF4104GB


FUSE AND FUSIBLE LINK BLOCK-1 (F116)
50A : R9
40A : X9
40A P
30A R
40A Q
20A 51 F9
10A 51 MR
10A 50 X9
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) (F73)
86
FUEL HEATER RELAY (F158) : R9
HIGH PRESSURE FUEL PUMP RELAY (F58) : MR
COOLING FAN RELAY-4 (F56) : X9
COOLING FAN RELAY-5 (F57) : X9
COOLING FAN MOTOR-1 (F52) : X9
GLOW CONTROL UNIT (F140) : R9
THROTTLE CONTROL MOTOR RELAY
15A 83
ECM (F8) : MR, QR (F85)
*8 *9
67
72
CPU
4
23
12
37
28
30
E38
DATA LINE
DATA LINE
ECM RELAY
93
*7
ECM (F68) : QR, MR, R9 (F8) : (F117)
To CAN system (Without forward emergency braking)
To CAN system (With forward emergency braking)
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E9 E10 E11 E12 F72 F73 F74
JRMWF4105GB


FUSE BLOCK (J/B) No.2 : IS
M143
10A 75
10A 74
M77
E105
E7
F121
98
99
8
11
46
45
C
TCM F119 : C
1
5
ELECTRIC OIL PUMP RELAY F66 : C
FUSIBLE LINK HOLDER E71 : IS
30A O
30A N
E105
M77
96
91
DC / DC CONVERTER M97 : IS
1
3
2
4
6
M35
FUSE BLOCK (J/B) IS : IS
20A 63
NV
ON
2
19
19
AROUND VIEW MONITOR CONTROL UNIT M24 : XC
M101 : PC
NAVI CONTROL UNIT M27 : NV
AUDIO UNIT M47 : ON
30A S
30A T
3
10
92
1
2
5
25
F121
E7
E105
M77
CIRCUIT BREAKER M70 : AB
M14
B4
AUTOMATIC BACK DOOR CONTROL UNIT B25 : AB
HEADLAMP WASHER RELAY E32
AB
R9
FUSE AND FUSIBLE LINK BLOCK-1 F116
MR
15A 53
10A 52
10A 49
C
FUEL INJECTOR RELAY F26 : MR
TCM F23 : C
JRMWF4106GB



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BATTERY POWER SUPPLY

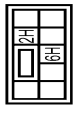
Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH(BODY SIDE)
Connector Type	NS04MW-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/R	-
2	LA/Y	-
3	GR	-
4	B	-

Connector No.	B106
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
1G	LA/R	-
2G	P	-
3G	G	-
4G	P	-
5G	G	-

Connector No.	B107
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-CS

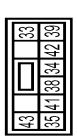


Terminal No.	Color Of Wire	Signal Name [Specification]
2H	BR	-
6H	LA/L	-

Connector No.	B127
Connector Name	SIREN CONTROL UNIT
Connector Type	RH06FB

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BLINKER_LINE
2	P	+B
3	V	COM_LINE
4	Y	SERIAL_LINE
5	B	GND

Connector No.	B472
Connector Name	POWER SEAT SWITCH (PASSENGER SIDE)
Connector Type	NS10FW-CS

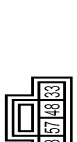


Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
34	B	-
35	G	-
38	GR	-
39	Y	-
41	V	-
42	P/B	-
43	-	-

Connector No.	B492
Connector Name	POWER SEAT SWITCH (DRIVER SIDE)
Connector Type	NS10FW-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
34	B	-
35	G	-
38	GR	-
39	Y	-
41	V	-
42	P/B	-
43	-	-

Connector No.	B505
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
48	B	-
57	W	-
58	L	-

Connector No.	B515
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FBR-CS

Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
48	B	-
57	W	-
58	L	-

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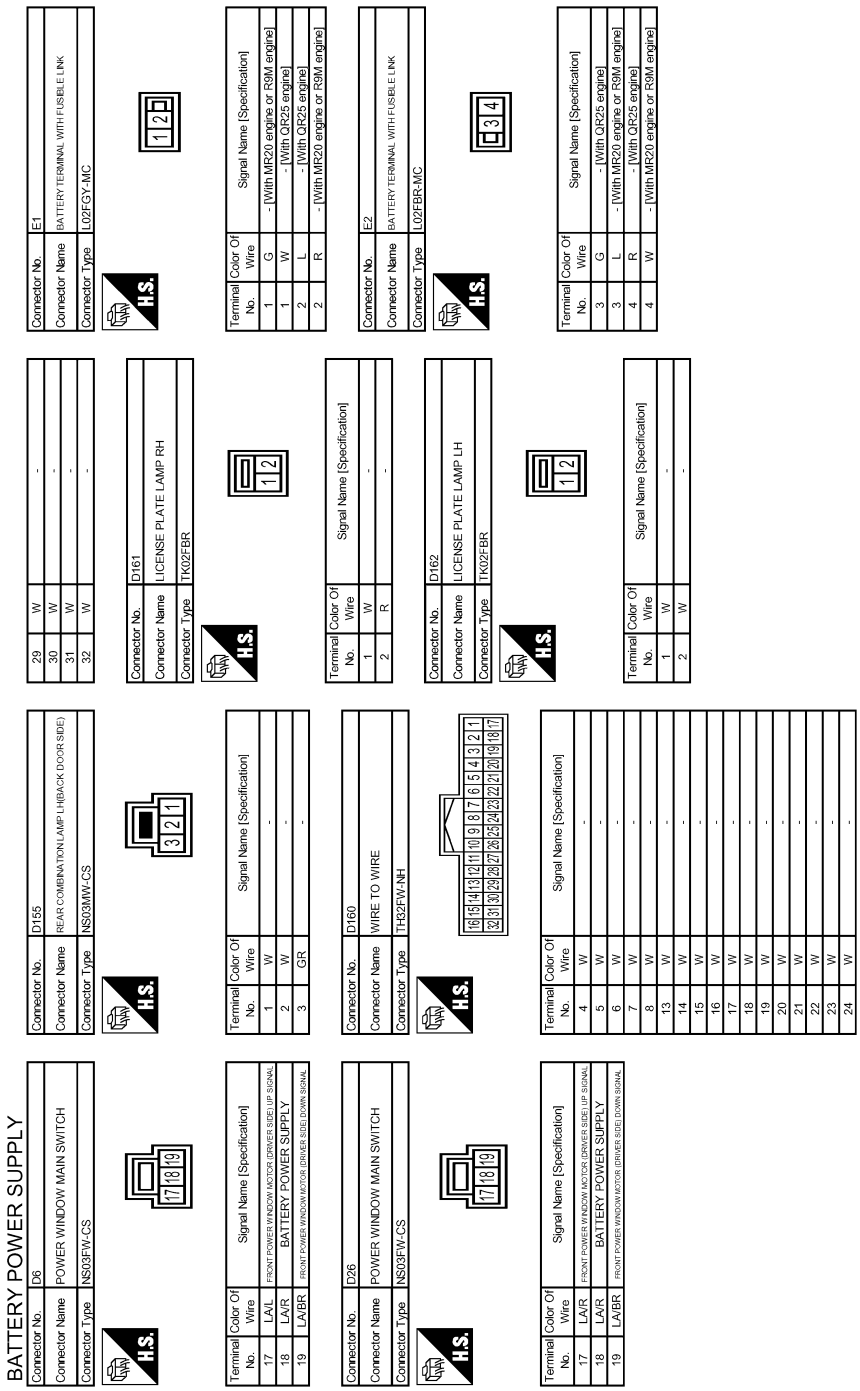

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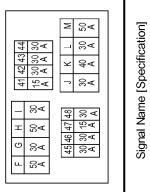
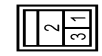
BATTERY POWER SUPPLY

Connector No.	E4
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	24381_7990A



Terminal No.	Color Of Wire	Signal Name [Specification]
41	SB	-
42	P	-
43	BG	-
44	GR	-
45	V	-
46	G	-
47	L	-
48	W	-
F	R	- [With MR20 or QR25 Engine]
F	W	- [With R9M Engine]
G	BR	-
H	G	- [With R9M Engine]
H	R	- [With MR20 or QR25 Engine]
I	G	- [With QR25 Engine]
I	R	- [With R9M Engine]
J	BR	- [With MR20 or QR25 Engine]
J	R	- [With R9M Engine]
K	BG	- [With R9M Engine]
K	Y	- [With MR20 or QR25 Engine]
L	L	-
M	W	- [With MR20 or QR25 Engine]
M	Y	- [With R9M Engine]

Connector No.	E5
Connector Name	HORN RELAY 1
Connector Type	Relay_24381_7990A

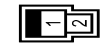


Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	SB	-
3	R	-

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS

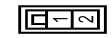
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	- [With MR20 or QR25 engine]
1	SB	- [With R9M engine]
2	BR	- [With MR20 or QR25 engine]
2	GR	- [With R9M engine]
3	G	-
4	R	-
5	B	- [With MR20 engine]
5	L	- [With R9M engine]
5	LG	- [With QR25 engine]
6	BG	-
7	G	-
8	V	- [With MR20 engine or R9M engine]
8	W	- [With QR25 engine]
9	BG	- [With R9M engine]
9	BR	- [With MR20 engine]
10	BR	-
11	Y	-
12	L	- [With R9M Engine]
12	LG	- [With QR25 engine]
13	BR	- [With MR20 or QR25 engine]
13	R	- [With R9M engine]
15	L	-
16	SB	-

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC



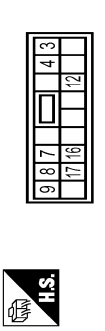
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-

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



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

Connector No.	E10
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
3	P	-
4	Y	-
7	L	-
8	BG	-
9	L	-
12	B	-
16	G	-
17	W	-

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	renault_24340540BR

Terminal No.	Color Of Wire	Signal Name [Specification]
19	V	-
20	R	-
21	LG	-
22	Y	-
23	B	-
24	W	-

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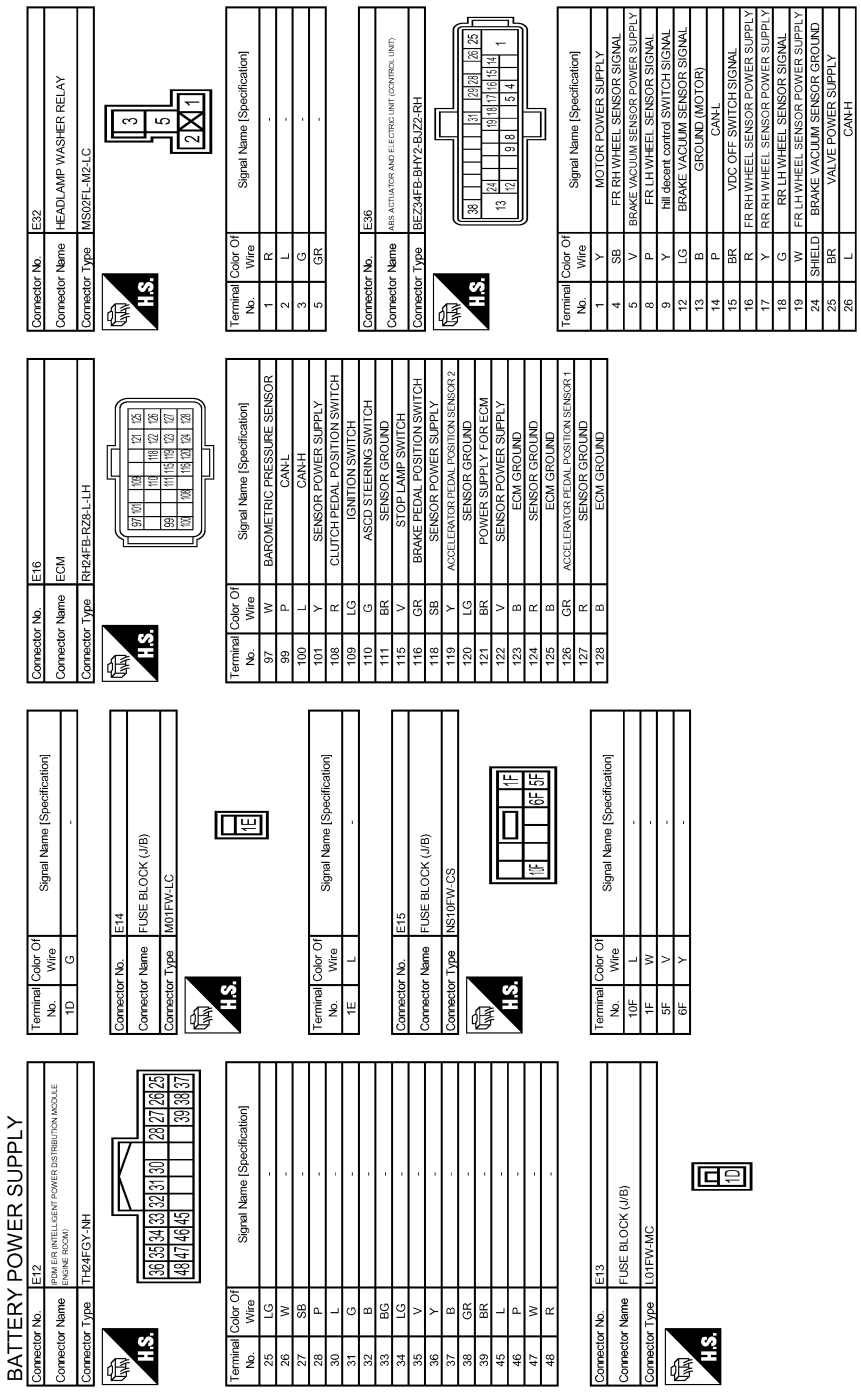
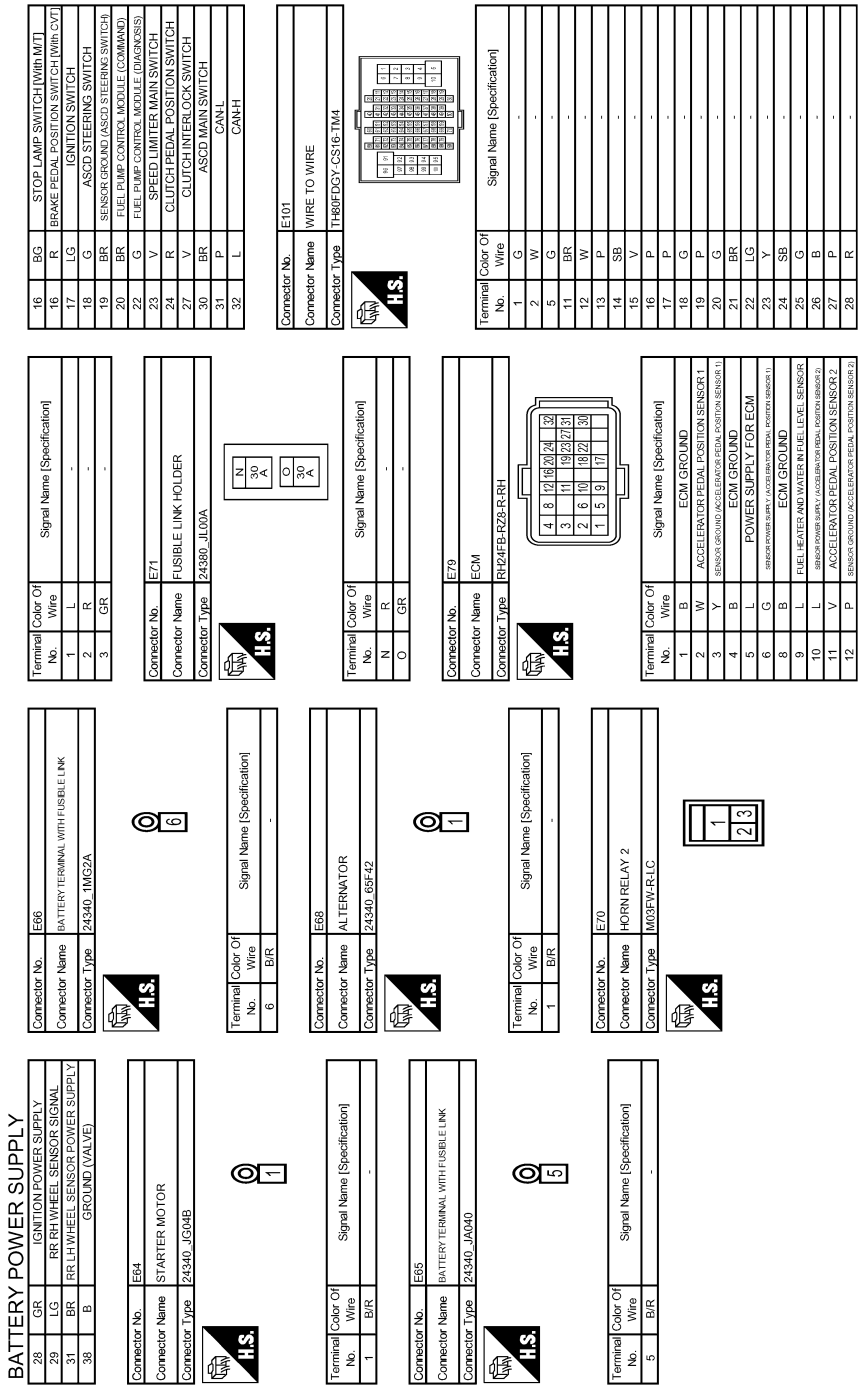


JRMWF4111GB



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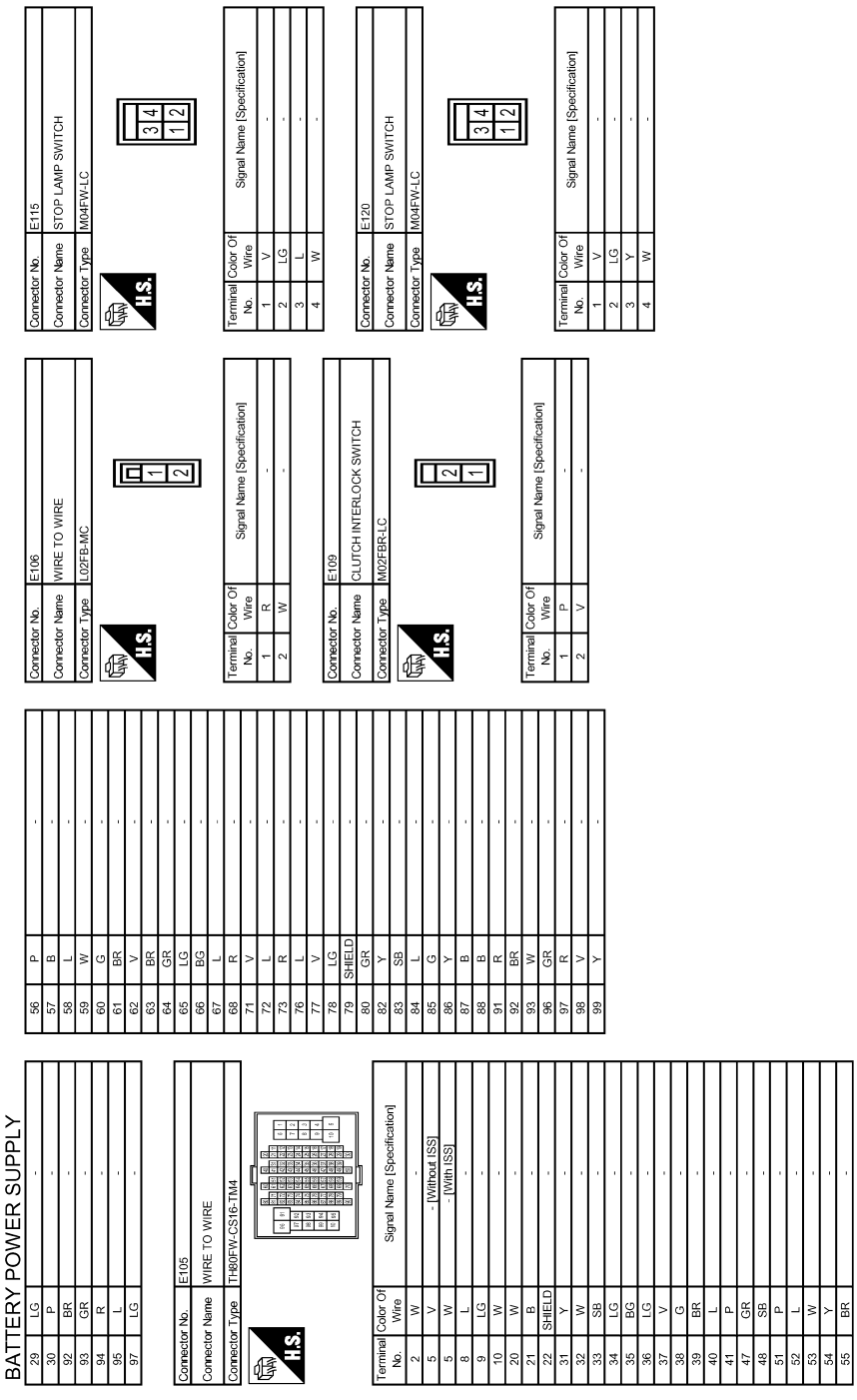

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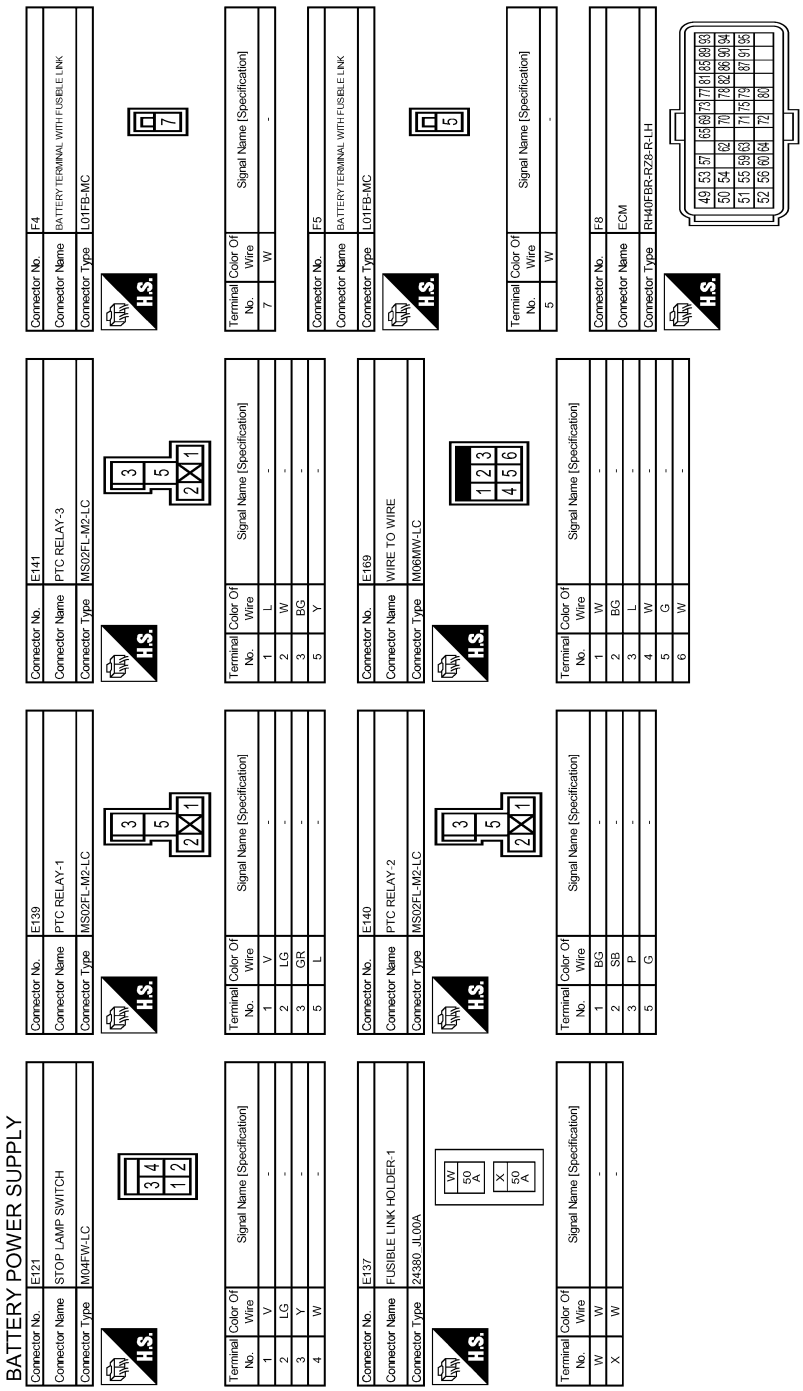
BATTERY POWER SUPPLY



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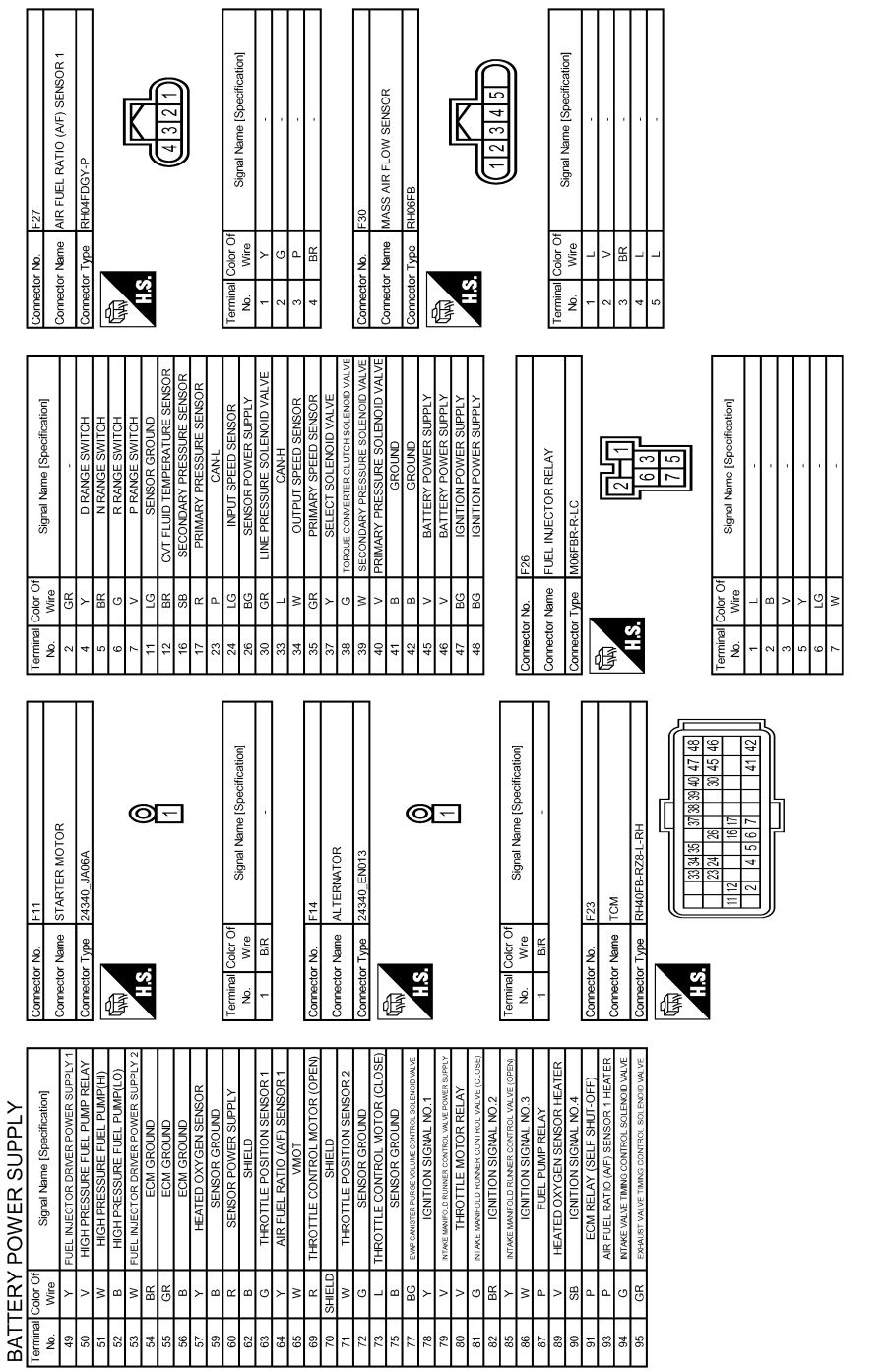

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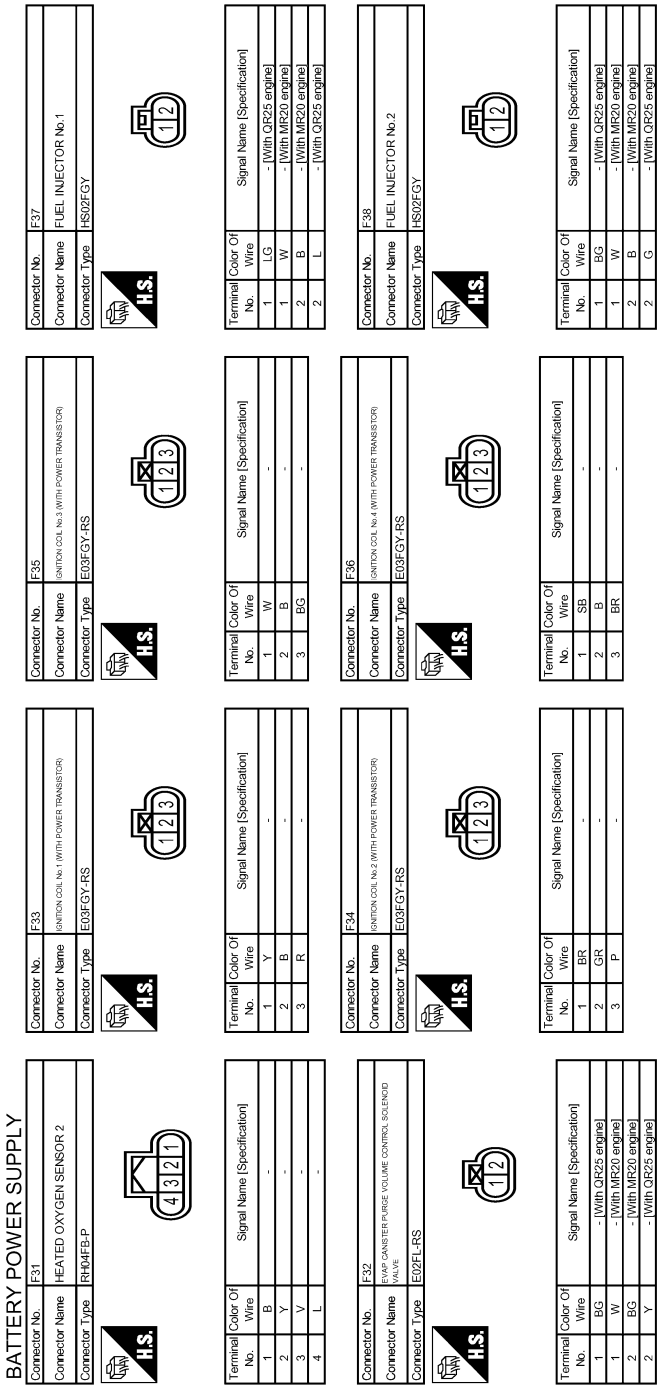

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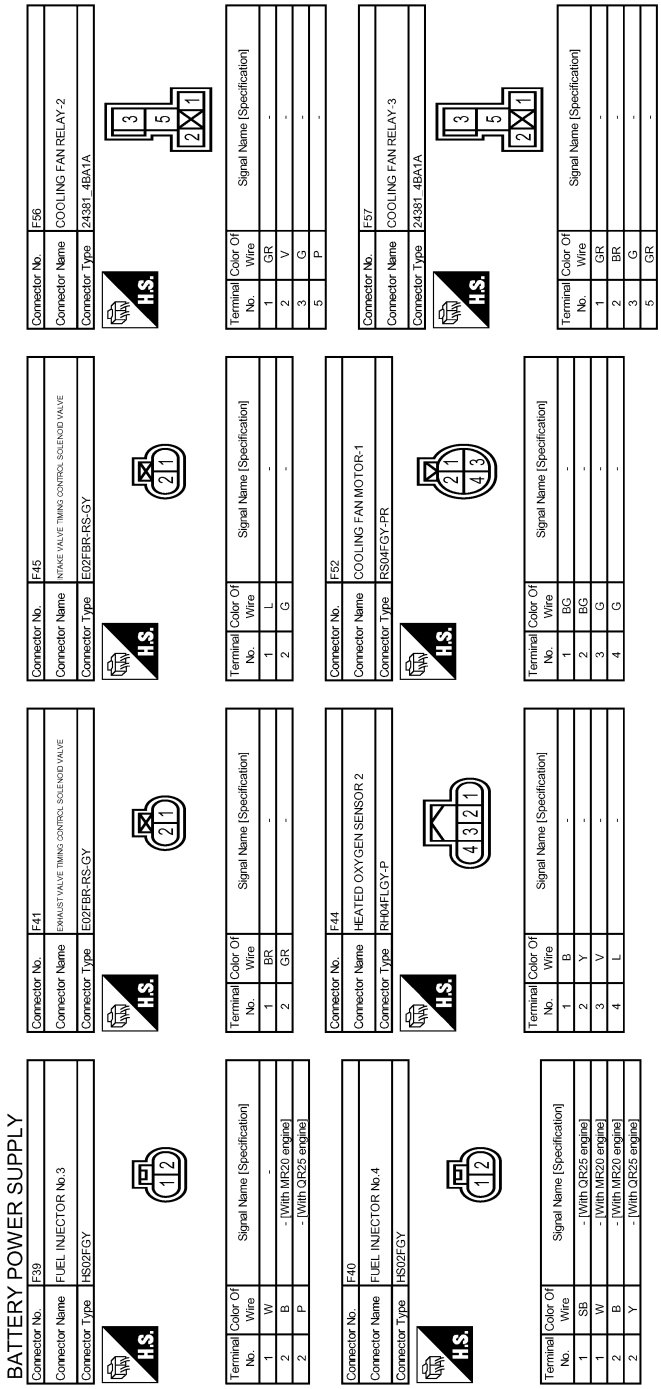
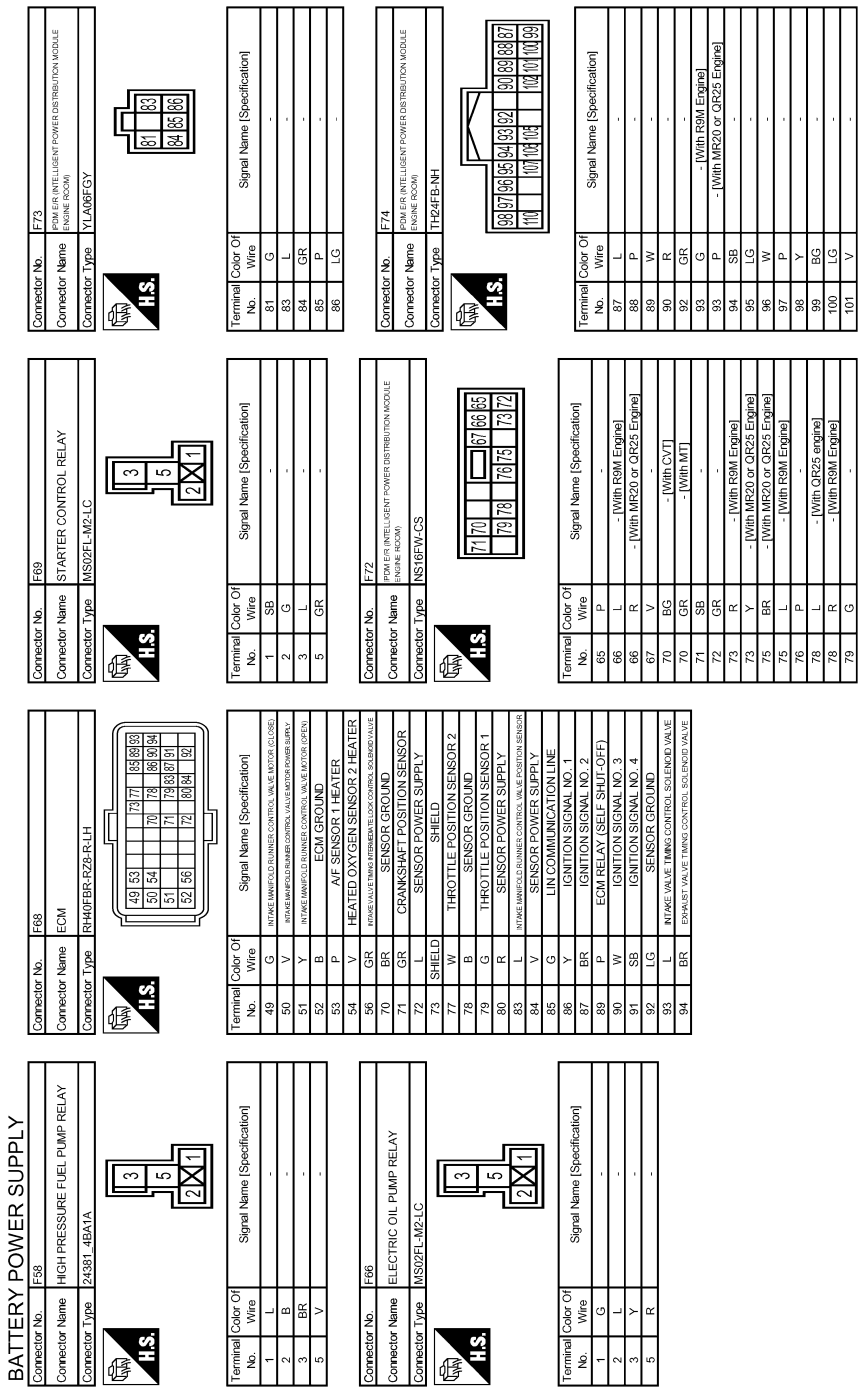


JRMWF4117GB

BATTERY POWER SUPPLY



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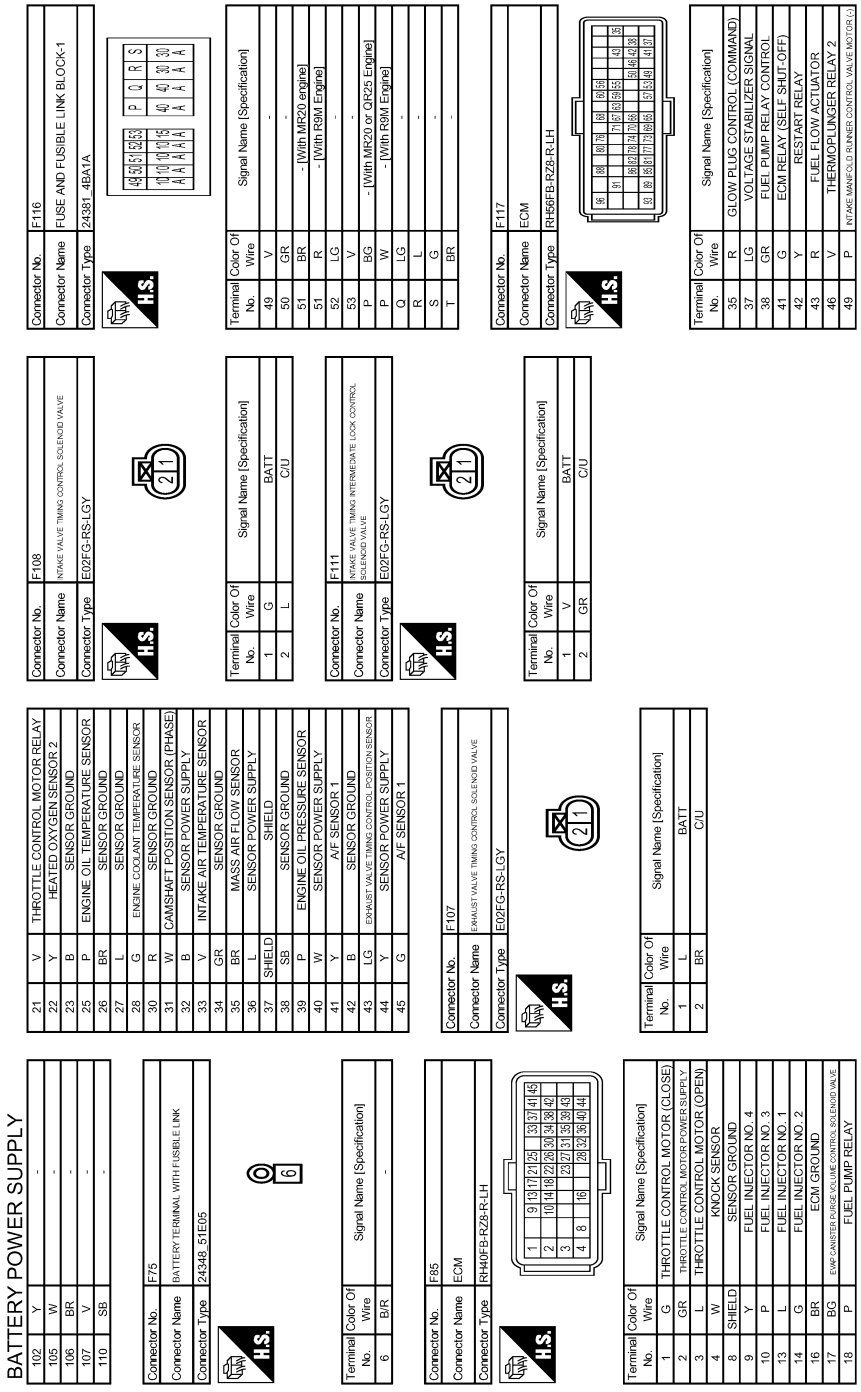
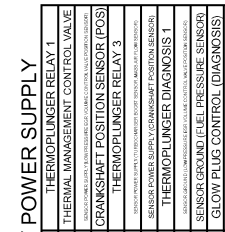


JRMWF4119GB

BATTERY POWER SUPPLY

50	BG	THERMOPLUNGER RELAY 1
53	Y	THERMAL MANAGEMENT CONTROL VALVE
55	R	
56	B	CRANKSHAFT POSITION SENSOR (POS)
57	SB	THERMOPLUNGER RELAY 3
59	Y	
60	R	
63	LG	THERMOPLUNGER DIAGNOSIS 1
65	SB	
66	SB	
67	W	GLOW PLUG CONTROL (DIAGNOSIS)
68	G	ENGINE COMMUNICATION LINE
69	GR	
70	Y	
71	L	
73	B	
74	BR	INTAKE AIR TEMPERATURE SENSOR 1
76	BR	THERMOPLUNGER DIAGNOSIS 2
77	L	FUEL RAIL PRESSURE SENSOR
78	GR	MASS AIR FLOW SENSOR
80	W	PNP SIGNAL
81	P	
82	V	
85	G	TURBOCHARGER BOOST SENSOR
86	R	INTAKE AIR TEMPERATURE SENSOR 2
88	W	FUEL PRESSURE SENSOR
89	BR	A/F SENSOR HEATER
91	G	
93	B	FUEL HEATER RELAY CONTROL
96	R	POWER SUPPLY FOR ECM (BACK-UP)

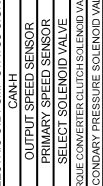
Connector No.	F119	
Connector Name	TCM	
Connector Type	RH40FB-RZ8-L-LH	



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	ELECTRIC OIL PUMP RELAY
2	GR	-
4	Y	D RANGE SWITCH
5	BR	N RANGE SWITCH

6	G	R RANGE SWITCH
7	V	P RANGE SWITCH
11	LG	SENSOR GROUND
12	BR	CVT FLUID TEMPERATURE SENSOR
14	V	G SENSOR
16	SB	SECONDARY PRESSURE SENSOR
17	R	PRIMARY PRESSURE SENSOR
23	P	CAN-L
24	LG	INPUT SPEED SENSOR
25	R	ELECTRIC OIL PUMP COMMAND SIGNAL
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
32	SB	ELECTRIC OIL PUMP STATUS SIGNAL
33	L	CAN-H
34	W	OUTPUT SPEED SENSOR
35	GR	PRIMARY SPEED SENSOR
37	Y	SELECT SOLENOID VALVE
38	G	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	W	SECONDARY PRESSURE SOLENOID VALVE
40	V	PRIMARY PRESSURE SOLENOID VALVE
41	B	GROUND
42	B	GROUND
45	V	BATTERY POWER SUPPLY
46	V	BATTERY POWER SUPPLY
47	BG	IGNITION POWER SUPPLY
48	BG	IGNITION POWER SUPPLY

Connector No.	F121
Connector Name	WIRE TO WIRE
Connector Type	NS16FBR-CS



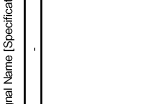
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	- [With MR20 or QR25 engine]
1	P	- [With R9M engine]
2	BR	- [With QR25 engine]
2	GR	- [With MR20 engine]
2	Y	- [With R9M engine]
3	G	-
4	BG	-
5	B	- [With MR20 engine]

5	L	- [With R9M engine]
5	LG	- [With QR25 engine]
6	V	-
7	G	-
8	V	- [With MR20 engine or R9M engine]
8	W	- [With QR25 engine]
9	B	- [With MR20 engine]
9	W	- [With R9M engine]
10	BR	-
11	P	- [Without ISS]
11	R	- [With ISS]
12	G	- [With QR25 engine]
12	L	- [With R9M Engine]
13	R	- [With R9M engine]
13	Y	- [With MR20 or QR25 engine]
15	L	-
16	LG	-

Connector No.	F122
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	F125
Connector Name	HEATED OXYGEN SENSOR 2
Connector Type	RH04FLGY-P



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

Connector No.	F131
Connector Name	ALTERNATOR
Connector Type	24340 EN013

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B/R	-

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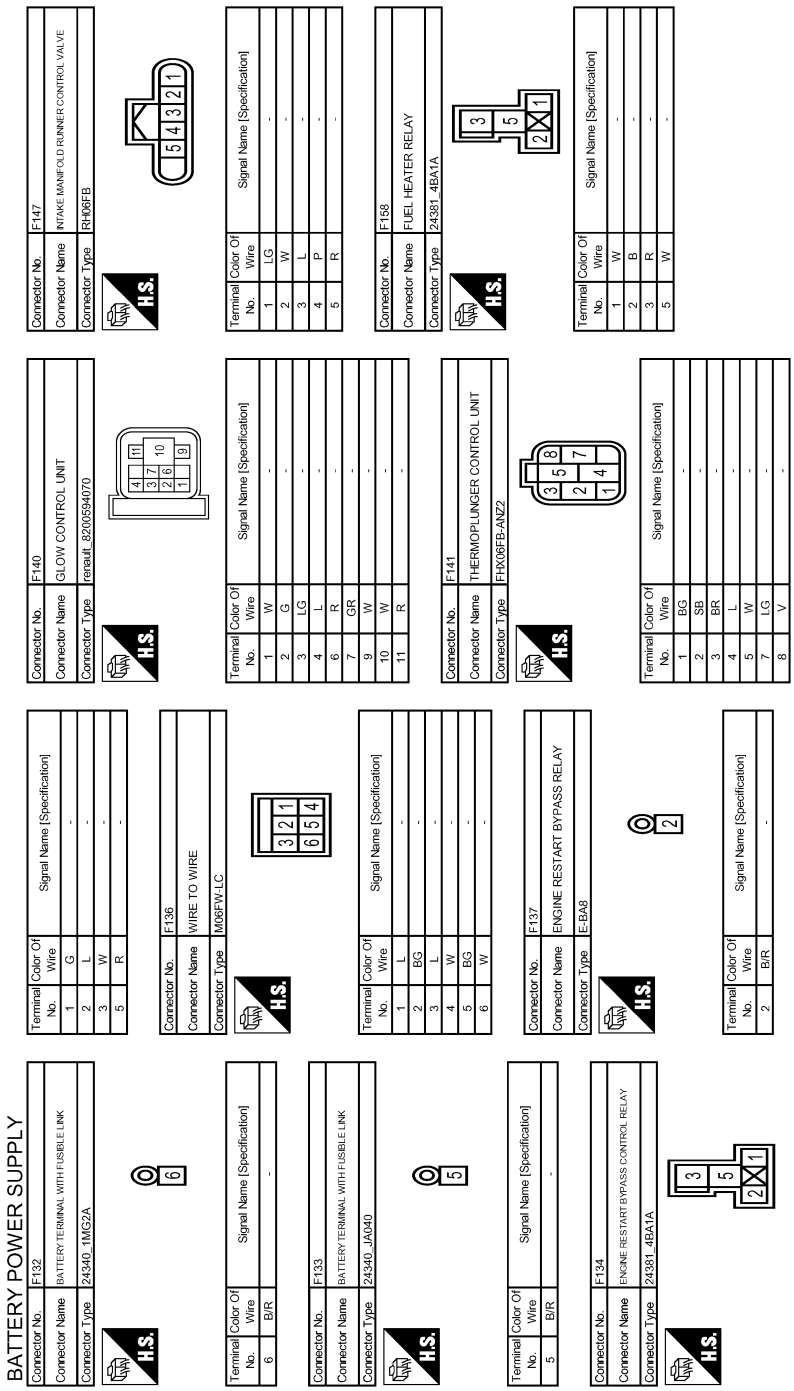


JRMWF4121GB

BATTERY POWER SUPPLY

Connector No.	F160
Connector Name	ENGINE COOLANT BYPASS VALVE CONTROL SOLENOID VALVE
Connector Type	BS02FB-AHY-S

H.S.

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

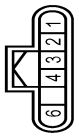
Connector No.	F161
Connector Name	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
Connector Type	BS02FB-AHY-S

H.S.

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

Connector No.	F166
Connector Name	AIR FUEL RATIO (A/F) SENSOR
Connector Type	RH06FB

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	W	-
3	BR	-
4	G	-
6	B	-

Connector No.	F167
Connector Name	FUEL FLOW ACTUATOR
Connector Type	BOSCH_1928404072

H.S.

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

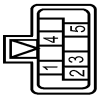
Connector No.	F168
Connector Name	COOLING FAN RELAY-2
Connector Type	24347_9F900

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	BR	-
3	BR	-
4	BR	-

Connector No.	F190
Connector Name	FUEL HEATER AND WATER IN FUEL LEVEL SENSOR
Connector Type	RS08FGY-1V

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	SGN
2	R	VB
3	B	GND
4	B	GND
5	W	VB

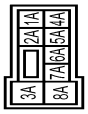
Connector No.	F213
Connector Name	CONDENSER
Connector Type	M02FW-LC

H.S.

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

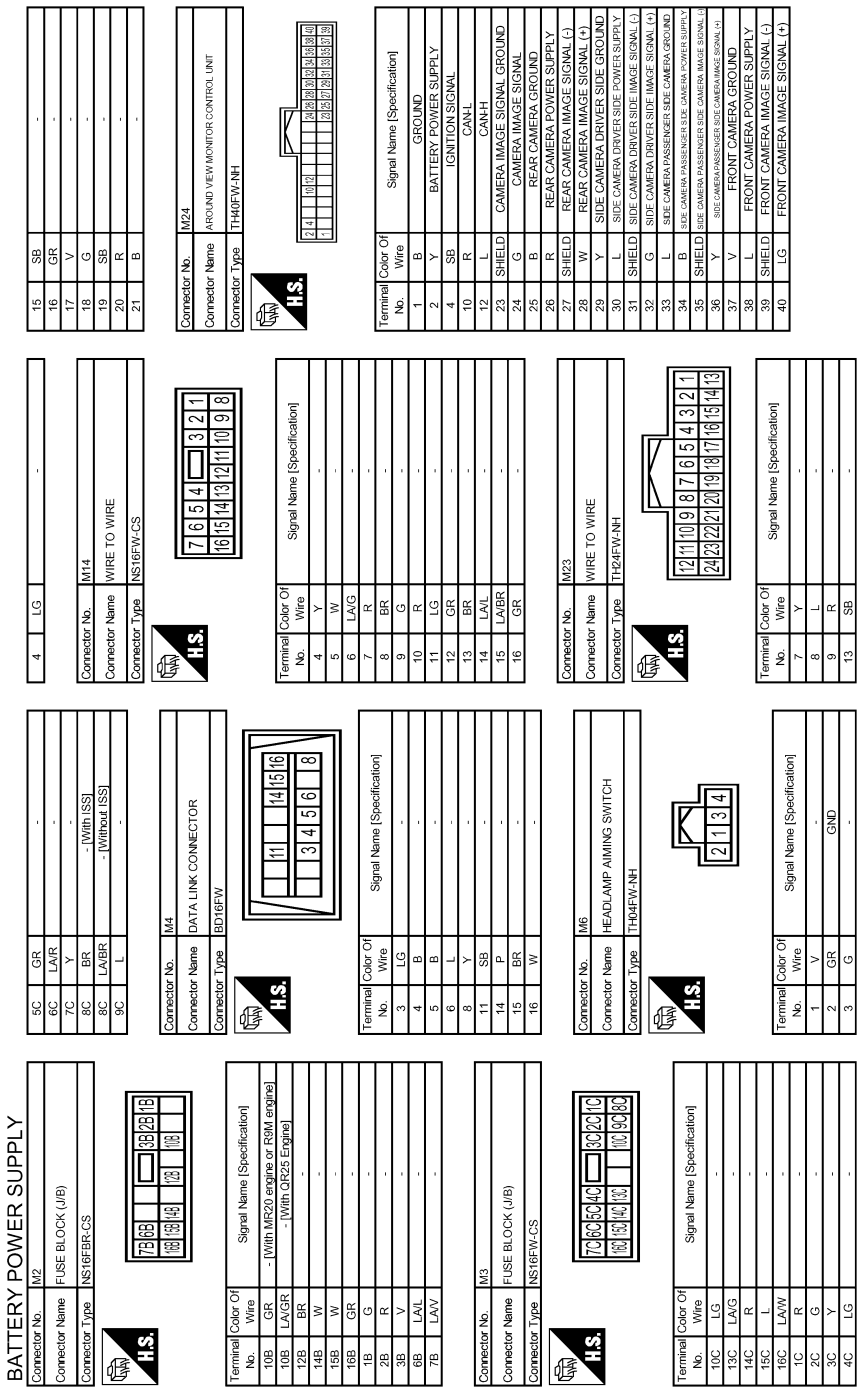
Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-M2

H.S.

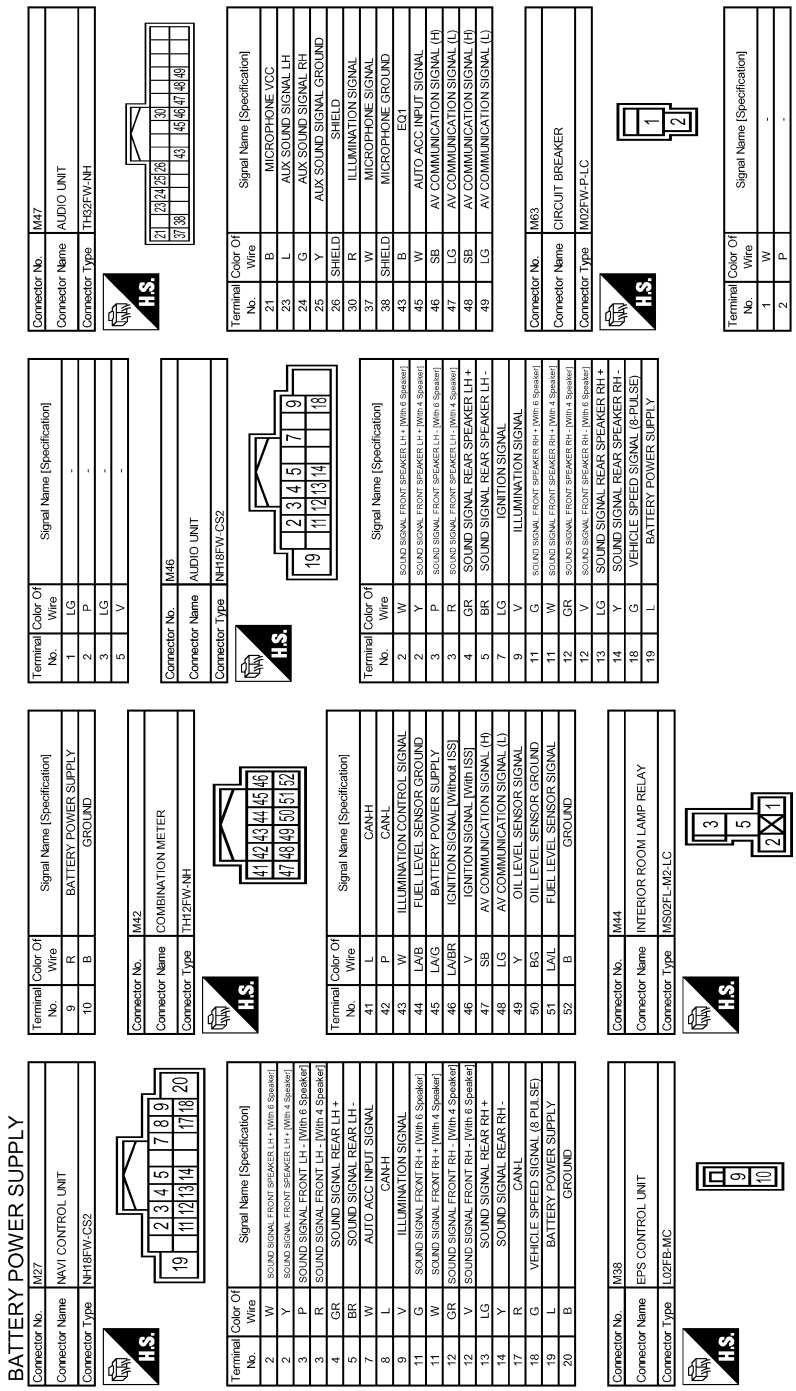


Terminal No.	Color Of Wire	Signal Name [Specification]
1A	L	-
2A	LG	-
3A	Y	-
4A	LG	-
5A	R	-
6A	BG	-
7A	BR	-
8A	SB	-

JRMWF4122GB



JRMWF4123GB



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BATTERY POWER SUPPLY

Connector No.	M64
Connector Name	POWER WINDOW RELAY
Connector Type	24347_9F900

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	W	-
3	L	-
5	P	-

Connector No.	M69
Connector Name	NATS ANTENNA AMP.
Connector Type	TH24FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CLOCK
2	GR	GND
3	BR	I_PWR
4	LG	DATA

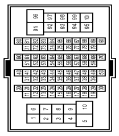
Connector No.	M70
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC

H.S.

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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LA/R	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	G	-
9	Y	-
10	R	-
20	W	-
21	B	-
22	SHIELD	-
31	V	-
32	GR	-
33	G	-
34	LG	-
35	B/G	-
36	LG	-
37	V	-
38	G	-
39	BR	-
40	L	-
41	P	-
47	Y	-
48	B/G	-
51	GR	-
52	SB	-
53	R	-
54	LA/L	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	LA/R	-
61	P	-
62	V	-
63	LA/BR	-
64	Y	-
65	GR	-
66	B/G	-
67	L	-
68	R	-
71	V	-
72	L	-
73	Y	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	L	- [With ISS]
80	LA/L	- [Without ISS]
82	GR	-
83	LG	-
84	SB	-
85	G	-
86	G	-
87	B	-
88	B	-
91	L	-
92	W	-
93	W	-
96	LG	-
97	BR	-
98	V	-
99	R	-

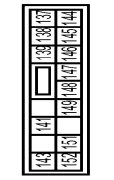
Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC

H.S.

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

Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
137	W	BAT POWER SUPPLY (FUSE)
138	SB	INT ROOM LAMP CONT
139	L	PASSENGER DOOR UNLOCK OUTPUT
141	V	FRONT DOOR LOCK OUTPUT
143	LA/V	POWER SUPPLY (FR DOOR LK ACT)
144	B/G	POWER SUPPLY (TURN SIGNAL)
145	GR	POWER SUPPLY (STOP LAMP)
146	B	GROUND
147	B	GROUND
148	G	DRIVER DOOR UNLOCK OUTPUT
149	W	FRONT DOOR SUPERLOCK OUTPUT
151	R	POWER SUPPLY (REAR DOOR LK ACT)
152	L/G	POWER SUPPLY (REAR WIPER)

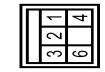
JRMWF4125GB

BATTERY POWER SUPPLY

Connector No.	M96
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH

Terminal No.	Color Of Wire	Signal Name [Specification]
81	L	KEY SWITCH
82	LA/R	KEY SW (ST) [Without Intelligent key]
82	W	PASS DOOR REQ SW [With Intelligent key]
84	BR	COMBI SW OUTPUT 2
85	SB	COMBI SW OUTPUT 1
86	P	COMBI SW OUTPUT 3
87	BG	COMBI SW OUTPUT 4
88	W	PUSH-BTN IGN SW ILL CONT
90	Y	S/L CONDITION
94	G	DETENTION SW
95	V	EXTENDED STORAGE FUSE SW
99	R	STOP/START OFF SW
100	V	DRIVER DOOR ANT +
101	Y	PUSH SW
104	R	DR DOOR UNLK SENS
105	Y	DR DOOR REQ SW
106	W	ACC OUTPUT
107	V	SENSOR CANCEL SW
109	P	NATS ANTENNA AMP.
110	BG	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP/START OFF SW INDICATOR
113	LG	NATS ANTENNA AMP.
114	Y	NATS ANTENNA AMP.
115	W	NATS ANTENNA AMP.
116	BG	ROOM ANT 1 -
117	GR	ROOM ANT 1 +
118	SB	PASSENGER DOOR ANT -
119	P	PASSENGER DOOR ANT +
120	BR	RRIVER DOOR ANT +

Connector No.	M97
Connector Name	DC / DC CONVERTER
Connector Type	M06FW-LC

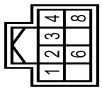


Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	POWER SUPPLY (BATTERY)
2	B	GROUND
3	L	POWER SUPPLY (BATTERY)
4	G	VOLTAGE OUTPUT
6	W	VOLTAGE OUTPUT

Connector No.	M101
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH

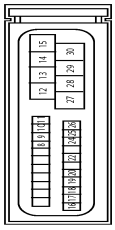
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	Y	BATTERY POWER SUPPLY
3	SB	IGNITION SIGNAL
7	R	BSW INDICATOR LH
8	G	BSW INDICATOR RH
27	L	CAN-H
28	R	CAN-L
36	Y	COMMUNICATION SIGNAL (CAMERA → PUMP)
37	V	COMM GND
38	SB	COMMUNICATION SIGNAL (PUMP → CAMERA)

Connector No.	M111
Connector Name	OPTION CONNECTOR (8)
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	V	-
4	LA/G	-
6	BR	-
8	B	-

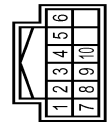
Connector No.	M137
Connector Name	ELECTRIC PARKING BRAKE CONTROL MODULE
Connector Type	Renault_8200668609



Terminal No.	Color Of Wire	Signal Name [Specification]
8	SB	PARKING BRAKE SW INDICATOR LAMP
9	BR	PARKING BRAKE SW RELEASE (NOR-OP)
10	BG	PARKING BRAKE SW RELEASE (NOR-CL)
11	V	PARKING BRAKE SW POWER SUPPLY (APPLY)
12	GR	MOTOR RH (+)
13	R	MOTOR POWER SUPPLY (RH)
14	W	MOTOR LH (+)
15	V	MOTOR POWER SUPPLY (LH)
16	L	CAN-H
17	P	CAN-L
18	BG	PARKING BRAKE SW APPLY (NOR-OP)
19	G	PARKING BRAKE SW APPLY (NOR-CL)
20	Y	PARKING BRAKE SW POWER SUPPLY (RELEASE)
22	GR	IGNITION POWER SUPPLY

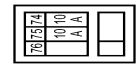
24	LG	CLUTCH PEDAL STROKE SENSOR GROUND
25	G	CLUTCH PEDAL STROKE SENSOR SIGNAL
26	GR	CLUTCH PEDAL STROKE SENSOR POWER SUPPLY
27	G	MOTOR RH (-)
28	B	GROUND (MOTOR RH)
29	BR	MOTOR LH (-)
30	B	GROUND (MOTOR LH)

Connector No.	M138
Connector Name	PARKING BRAKE SWITCH
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	-
2	BR	-
3	SB	-
4	G	-
5	Y	-
6	V	-
7	W	-
8	GR	-
9	LG	-
10	BG	-

Connector No.	M143
Connector Name	FUSE BLOCK (J/B) No. 2
Connector Type	24380_1AT0A



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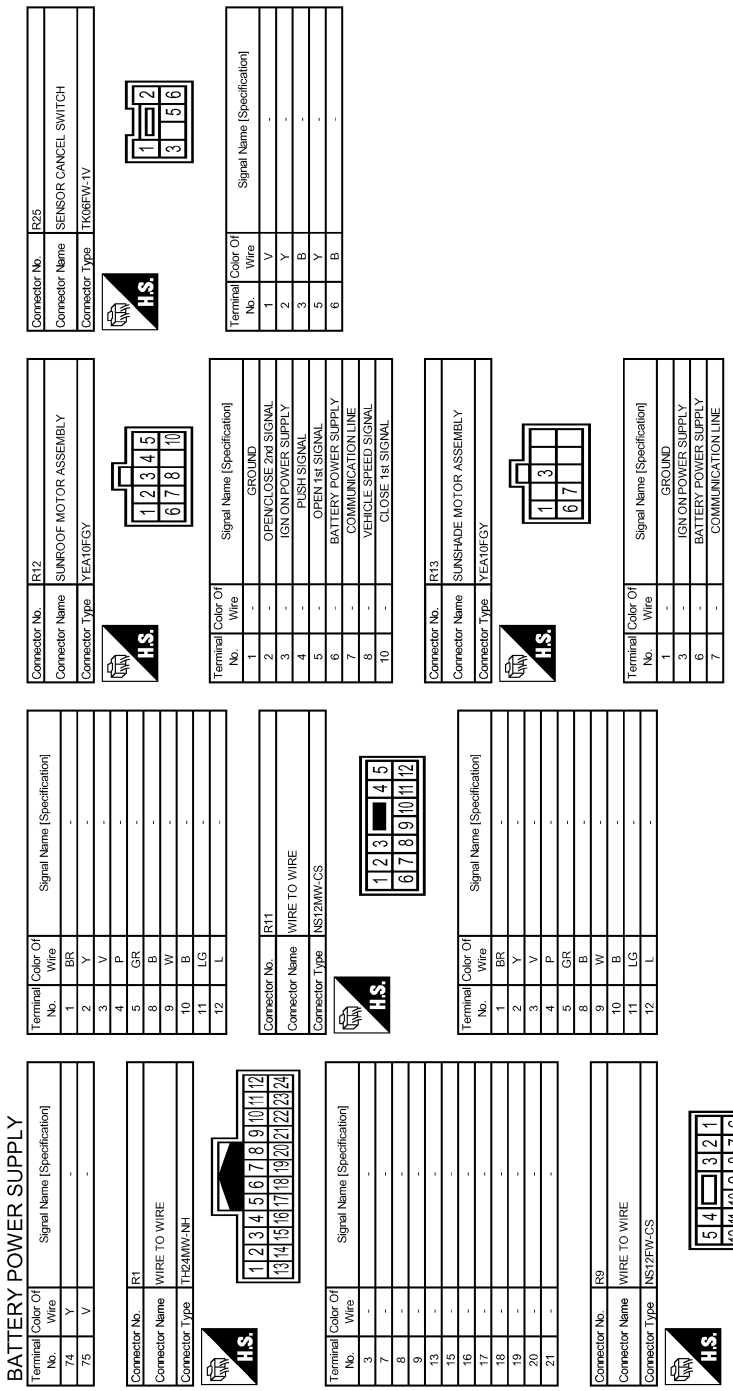
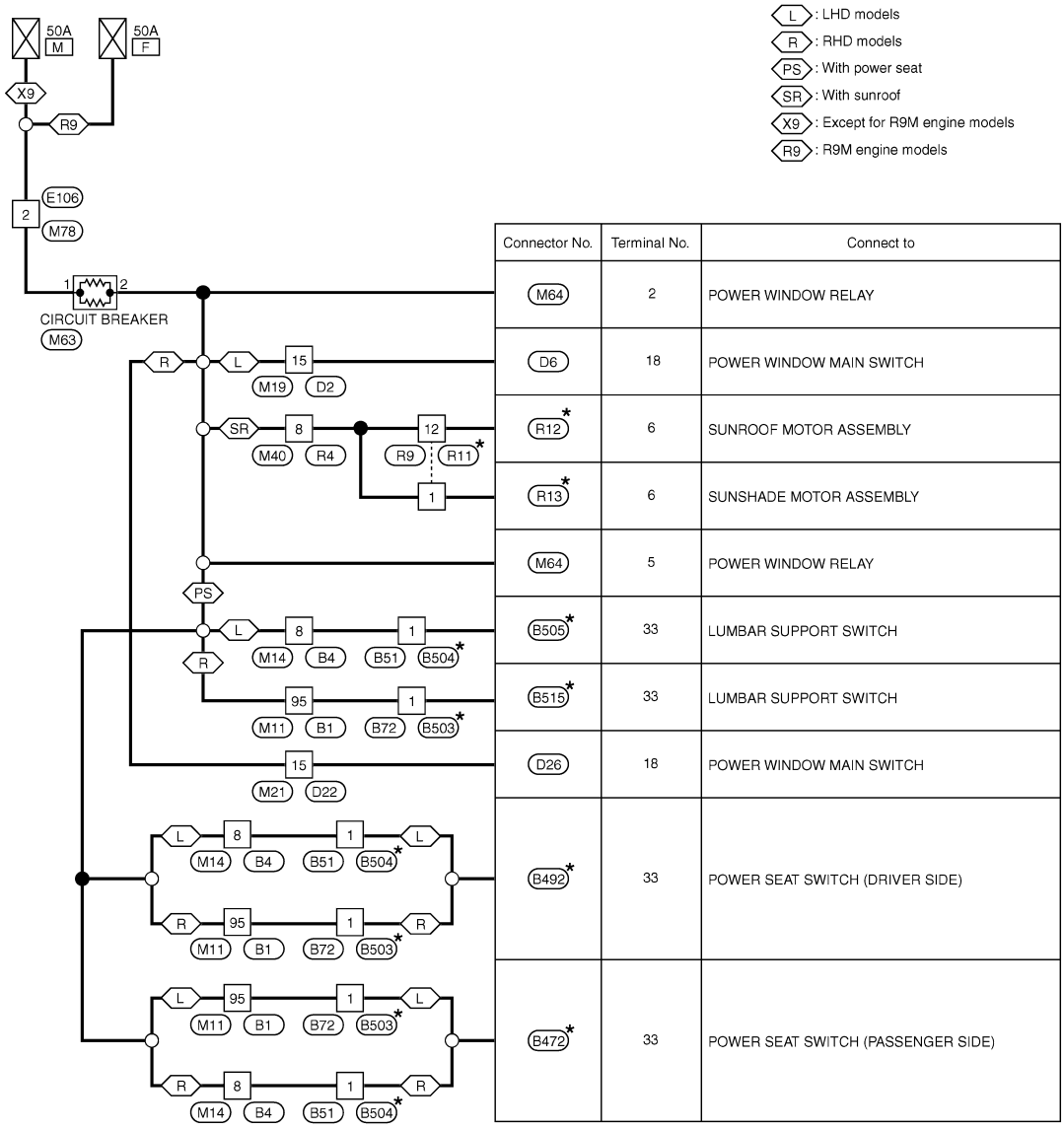


JRMWF4127GB

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

INFOID:0000000010709199

BATTERY POWER SUPPLY FUSIBLE LINK No. M, F



Connector No.	Terminal No.	Connect to
M64	2	POWER WINDOW RELAY
D6	18	POWER WINDOW MAIN SWITCH
R12*	6	SUNROOF MOTOR ASSEMBLY
R13*	6	SUNSHADE MOTOR ASSEMBLY
M64	5	POWER WINDOW RELAY
B505*	33	LUMBAR SUPPORT SWITCH
B515*	33	LUMBAR SUPPORT SWITCH
D26	18	POWER WINDOW MAIN SWITCH
B492*	33	POWER SEAT SWITCH (DRIVER SIDE)
B472*	33	POWER SEAT SWITCH (PASSENGER SIDE)

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

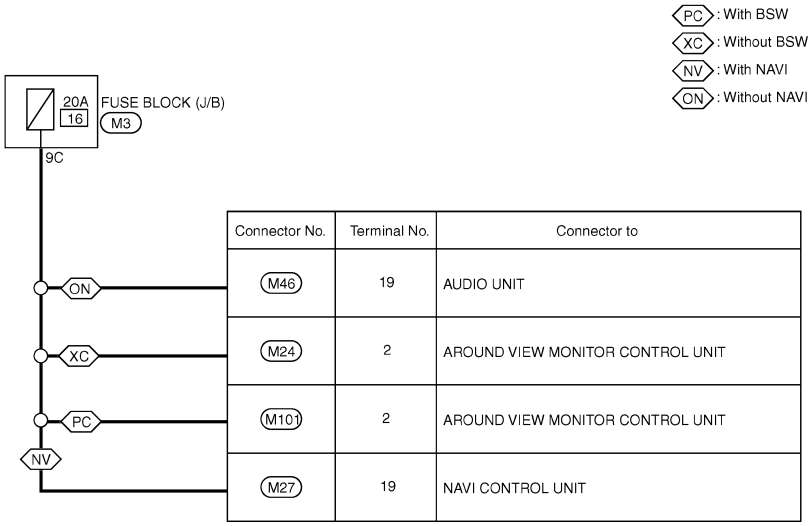
2014/03/17

JRMWF4128GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 16 -

INFOID:0000000010709200

BATTERY POWER SUPPLY FUSE No. 16



Connector No.	Terminal No.	Connector to
M46	19	AUDIO UNIT
M24	2	AROUND VIEW MONITOR CONTROL UNIT
M101	2	AROUND VIEW MONITOR CONTROL UNIT
M27	19	NAVI CONTROL UNIT

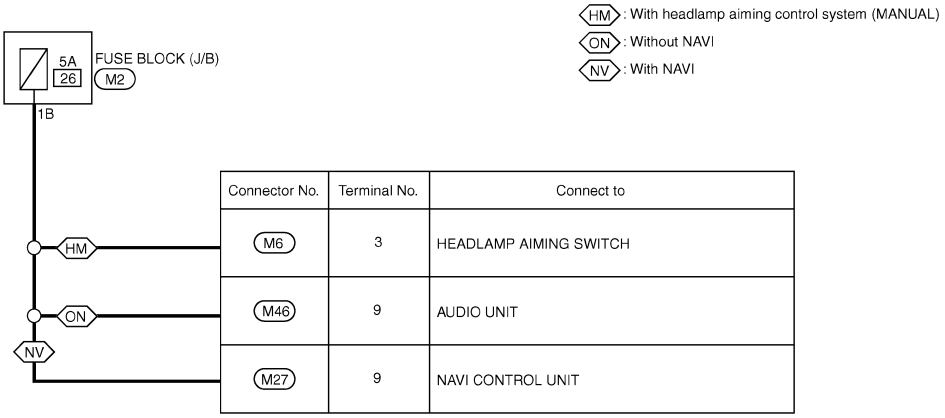
2014/03/17

JRMWF4129GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 26 -

INFOID:0000000010709201

BATTERY POWER SUPPLY FUSE No. 26



Connector No.	Terminal No.	Connect to
M6	3	HEADLAMP AIMING SWITCH
M46	9	AUDIO UNIT
M27	9	NAVI CONTROL UNIT

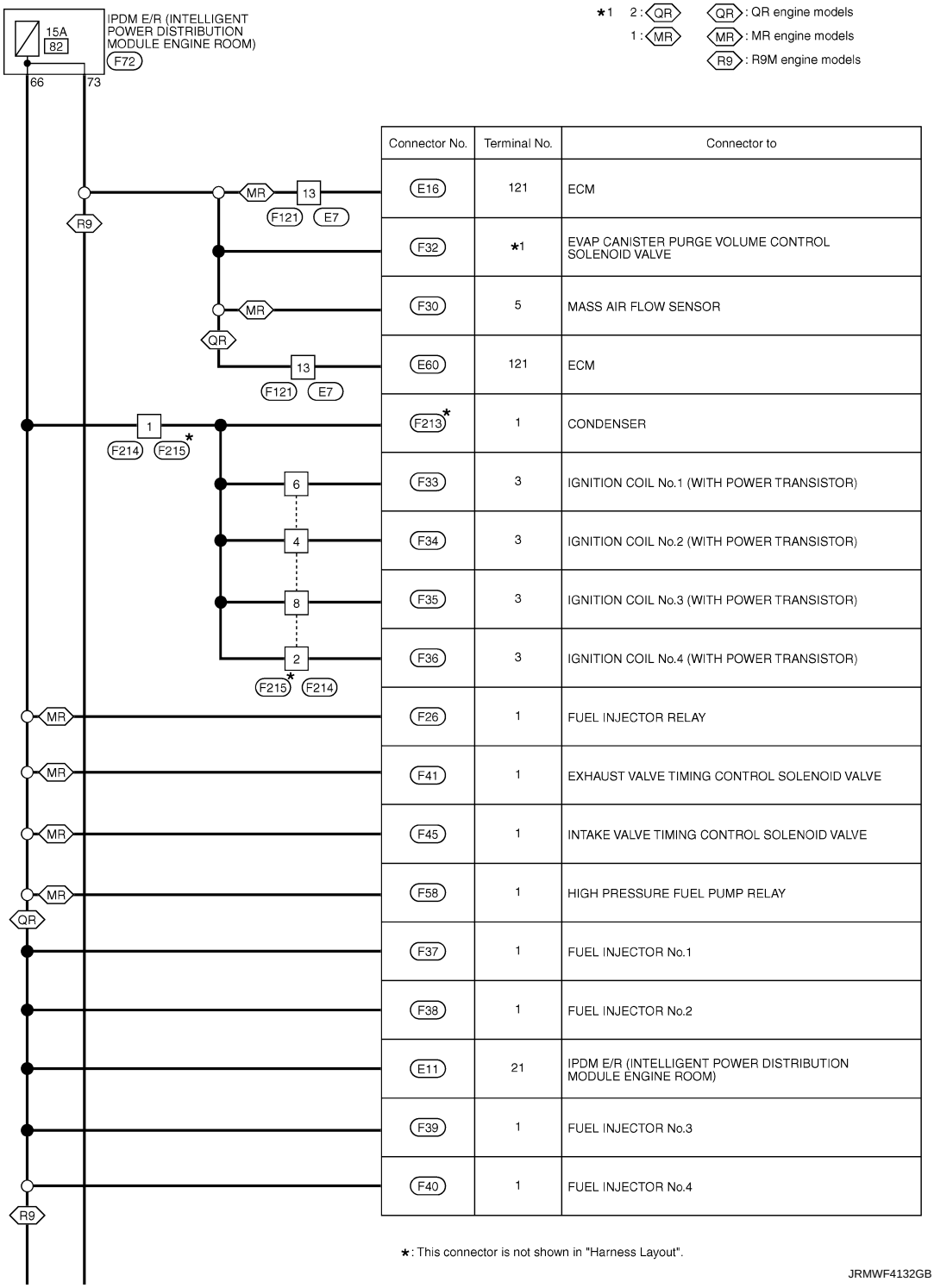
2014/03/17

JRMWF4131GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 82 -

INFOID:0000000010709202

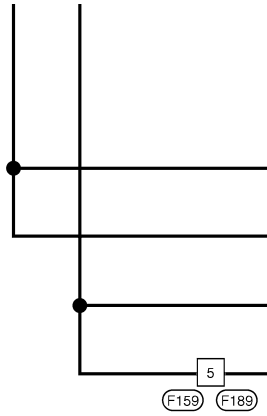
BATTERY POWER SUPPLY FUSE No. 82



Connector No.	Terminal No.	Connector to
E16	121	ECM
F32	*1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F30	5	MASS AIR FLOW SENSOR
E60	121	ECM
F213*	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)
F26	1	FUEL INJECTOR RELAY
F41	1	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
F45	1	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F58	1	HIGH PRESSURE FUEL PUMP RELAY
F37	1	FUEL INJECTOR No.1
F38	1	FUEL INJECTOR No.2
E11	21	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
F39	1	FUEL INJECTOR No.3
F40	1	FUEL INJECTOR No.4

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

JRMWF4132GB



Connector No.	Terminal No.	Connector to
F167	1	FUEL FLOW ACTUATOR
F166	4	AIR FUEL RATIO (A/F) SENSOR
F160	2	ENGINE COOLANT BYPASS VALVE CONTROL SOLENOID VALVE
F190	2	FUEL HEATER AND WATER IN FUEL LEVEL SENSOR

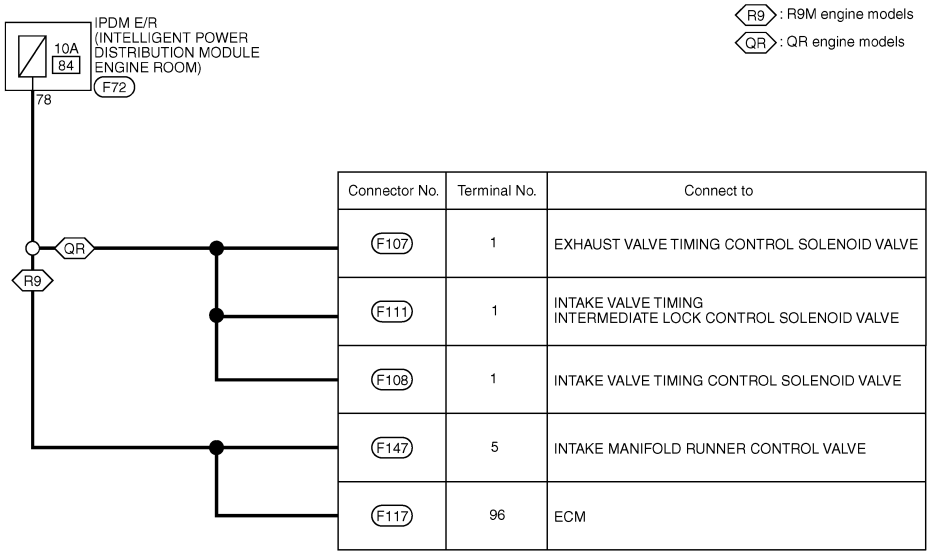
2014/03/17

JRMWF4133GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 84 -

INFOID:0000000010709203

BATTERY POWER SUPPLY FUSE No. 84



Connector No.	Terminal No.	Connect to
F107	1	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
F111	1	INTAKE VALVE TIMING INTERMEDIATE LOCK CONTROL SOLENOID VALVE
F108	1	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F147	5	INTAKE MANIFOLD RUNNER CONTROL VALVE
F117	96	ECM

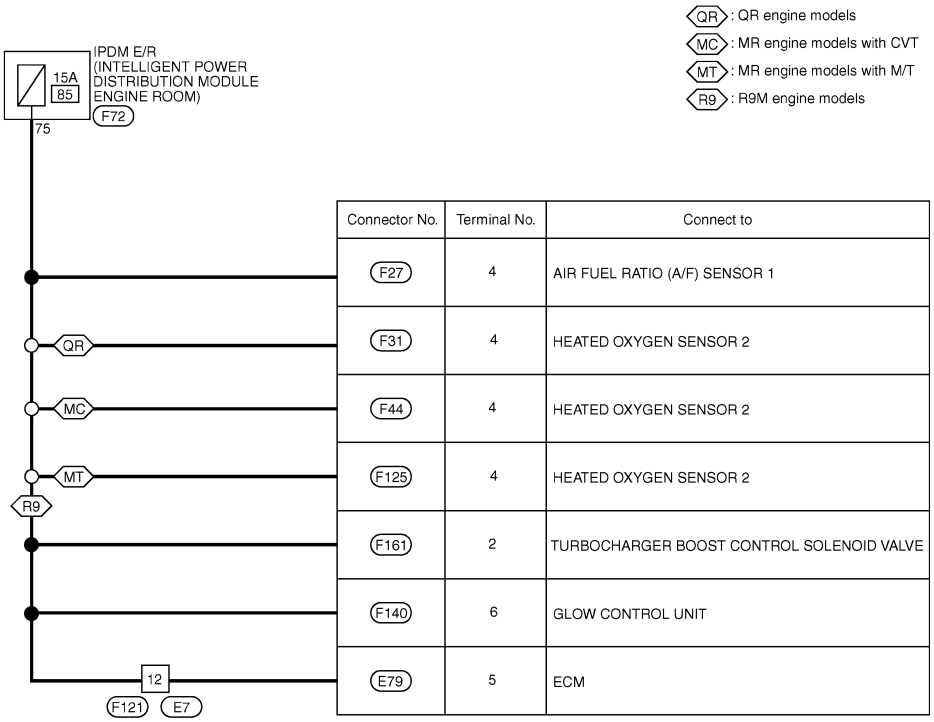
2014/03/17

JRMWF4134GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 85 -

INFOID:0000000010763705

BATTERY POWER SUPPLY FUSE No. 85



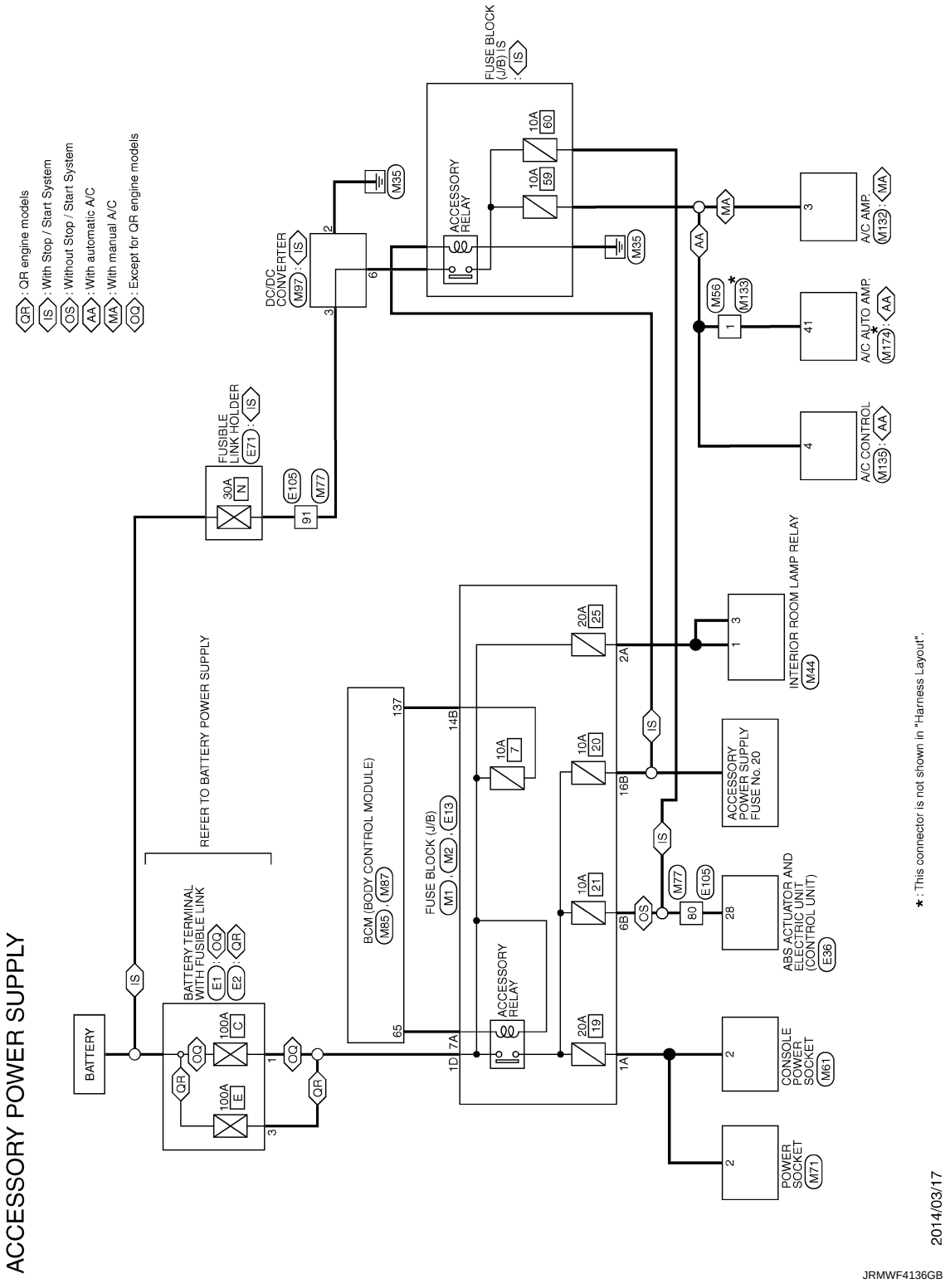
Connector No.	Terminal No.	Connect to
F27	4	AIR FUEL RATIO (A/F) SENSOR 1
F31	4	HEATED OXYGEN SENSOR 2
F44	4	HEATED OXYGEN SENSOR 2
F125	4	HEATED OXYGEN SENSOR 2
F161	2	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
F140	6	GLOW CONTROL UNIT
E79	5	ECM

2014/03/17

JRMWF4135GB

Wiring Diagram - ACCESSORY POWER SUPPLY -

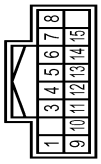
INFOID:0000000010709204



ACCESSORY POWER SUPPLY

Connector No.	D28
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TH16FB-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/W	-
3	LA/W	-
4	LA/GR	-
5	LA/L	-
6	LA/P	-
7	LA/BG	-
8	LA/SB	-
9	LA/Y	-
10	B	-
11	LA/LG	- [For LHD models]
11	LA/R	- [For RHD models]
12	LA/BR	- [For LHD models]
12	LA/G	- [For RHD models]
13	LA/R	-
14	LA/B	-
15	LA/SB	- [For RHD models]
15	LA/W	- [For LHD models]

Connector No.	E1
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FGY-MC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1D	G	-

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With MR20 engine or R9M engine]
1	W	- [With QR25 engine]
2	L	- [With QR25 engine]
2	R	- [With MR20 engine or R9M engine]

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	G	- [With QR25 engine]
3	L	- [With MR20 engine or R9M engine]
4	R	- [With QR25 engine]
4	W	- [With MR20 engine or R9M engine]

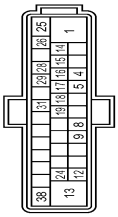
Connector No.	E13
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1D	G	-

Connector No.	E36
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BEZ34FB-BHY2-BJZ2-RH

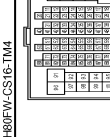
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	MOTOR POWER SUPPLY
4	SB	FR RH WHEEL SENSOR SIGNAL
5	V	BRAKE VACUUM SENSOR POWER SUPPLY
8	P	FR LH WHEEL SENSOR SIGNAL
9	Y	hill decent control SWITCH SIGNAL
12	LG	BRAKE VACUUM SENSOR SIGNAL
13	B	GROUND (MOTOR)
14	P	CAN-L
15	BR	VDC OFF SWITCH SIGNAL
16	R	FR RH WHEEL SENSOR POWER SUPPLY
17	Y	RR RH WHEEL SENSOR POWER SUPPLY
18	G	RR LH WHEEL SENSOR SIGNAL
19	W	FR LH WHEEL SENSOR POWER SUPPLY
24	SHIELD	BRAKE VACUUM SENSOR GROUND
25	BR	VALVE POWER SUPPLY
26	L	CAN-H
28	GR	IGNITION POWER SUPPLY
29	LG	RR RH WHEEL SENSOR SIGNAL
31	BR	RR LH WHEEL SENSOR POWER SUPPLY
38	B	GROUND (VALVE)

Connector No.	E71
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24380 JL00A

H.S.



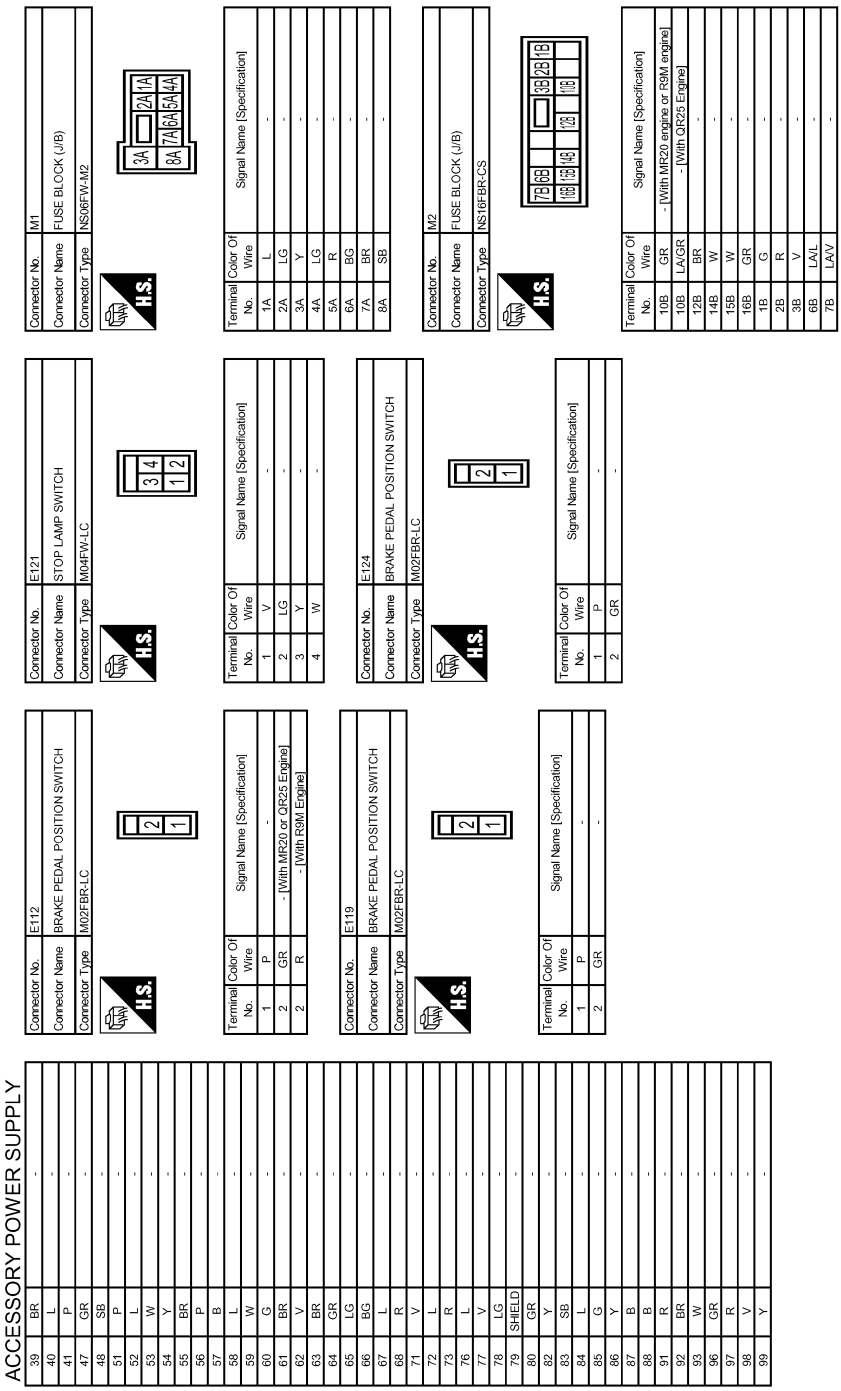
Terminal No.	Color Of Wire	Signal Name [Specification]
N	R	-
O	GR	-

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	L	-
9	LG	-
10	W	-
20	W	-
21	B	-
22	SHIELD	-
31	Y	-
32	W	-
33	SB	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-

JRMWF4137GB



JRMWF4138GB

ACCESSORY POWER SUPPLY

Connector No.	M44
Connector Name	INTERIOR ROOM LAMP RELAY
Connector Type	MS02FL-M2-LC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	P	-
3	LG	-
5	V	-

Connector No.	M56
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
3	B	-
5	LG	-
7	L	-
8	W	-
9	BG	-
10	Y	-
11	V	-
12	GR	-
13	LG	-
14	SB	-
16	BR	-
18	BR	-
19	G	-
20	Y	-
21	BG	-

23	R	-
24	SB	-
25	GR	-
26	BR	-
27	LG	-
28	W	-
29	BG	-
30	G	-

Connector No.	M61
Connector Name	CONSOLE POWER SOCKET
Connector Type	CEA01FB-CHA2

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	-
3	B	-

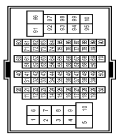
Connector No.	M71
Connector Name	POWER SOCKET
Connector Type	CEA01FB-CHW2

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	B	GND

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

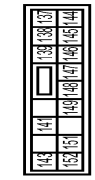


Terminal No.	Color Of Wire	Signal Name [Specification]
2	LA/R	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	G	-
9	Y	-
10	R	-
20	W	-
21	B	-
22	SHIELD	-
31	V	-
32	GR	-
33	G	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-
40	L	-
41	P	-
47	Y	-
48	BG	-
51	GR	-
52	SB	-
53	R	-
54	LA/L	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	LA/R	-
61	P	-
62	V	-
63	LA/BR	-
64	Y	-

65	GR	-
66	BG	-
67	L	-
68	R	-
71	V	-
72	L	-
73	Y	-
76	L	-
77	V	-
78	LG	-
79	SHIELD	-
80	L	- [With ISS]
80	LA/L	- [Without ISS]
82	GR	-
83	LG	-
84	SB	-
85	G	-
86	G	-
87	B	-
88	B	-
91	L	-
92	W	-
93	W	-
96	LG	-
97	BR	-
98	V	-
99	R	-

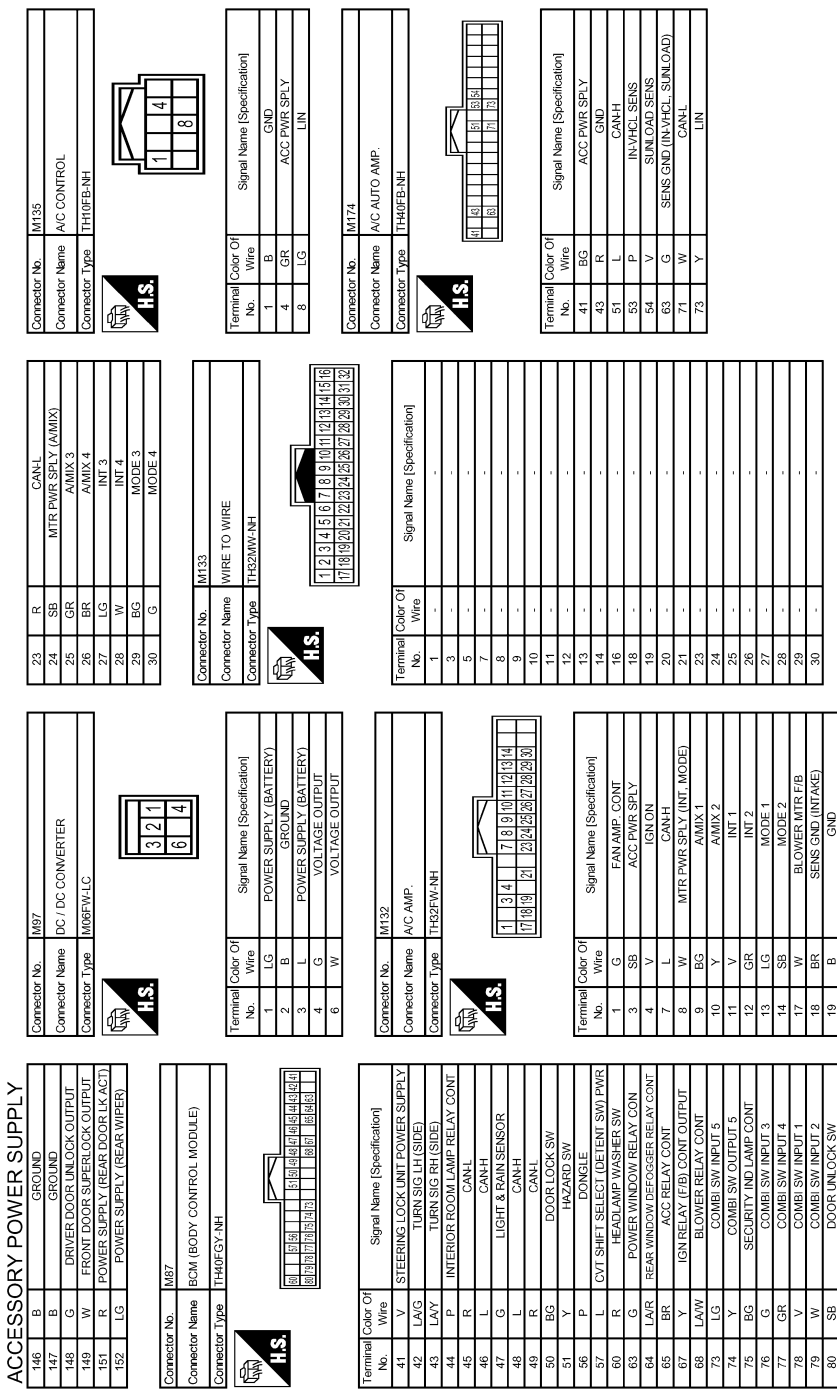
Connector No.	M85
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FBR-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
137	W	BAT POWER SUPPLY (FUSE)
138	SB	INT ROOM LAMP CONT
139	L	PASSENGER DOOR UNLOCK OUTPUT
141	V	FRONT DOOR LOCK OUTPUT
143	LA/V	POWER SUPPLY (FR DOOR LK ACT)
144	BG	POWER SUPPLY (TURN SIGNAL)
145	GR	POWER SUPPLY (STOP LAMP)

JRMWF4139GB

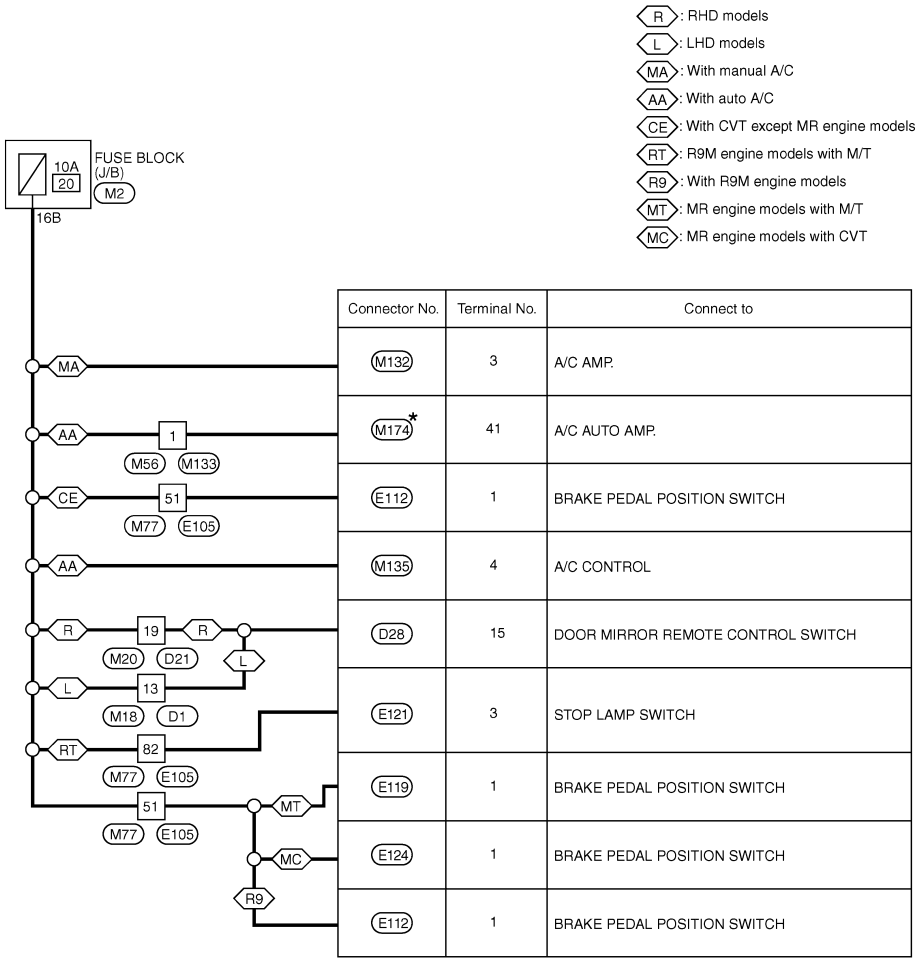


JRMWF4140GB

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 20 -

INFOID:0000000010709205

ACCESSORY POWER SUPPLY FUSE No. 20



Connector No.	Terminal No.	Connect to
M132	3	A/C AMP.
M174*	41	A/C AUTO AMP.
E112	1	BRAKE PEDAL POSITION SWITCH
M135	4	A/C CONTROL
D28	15	DOOR MIRROR REMOTE CONTROL SWITCH
E121	3	STOP LAMP SWITCH
E119	1	BRAKE PEDAL POSITION SWITCH
E124	1	BRAKE PEDAL POSITION SWITCH
E112	1	BRAKE PEDAL POSITION SWITCH

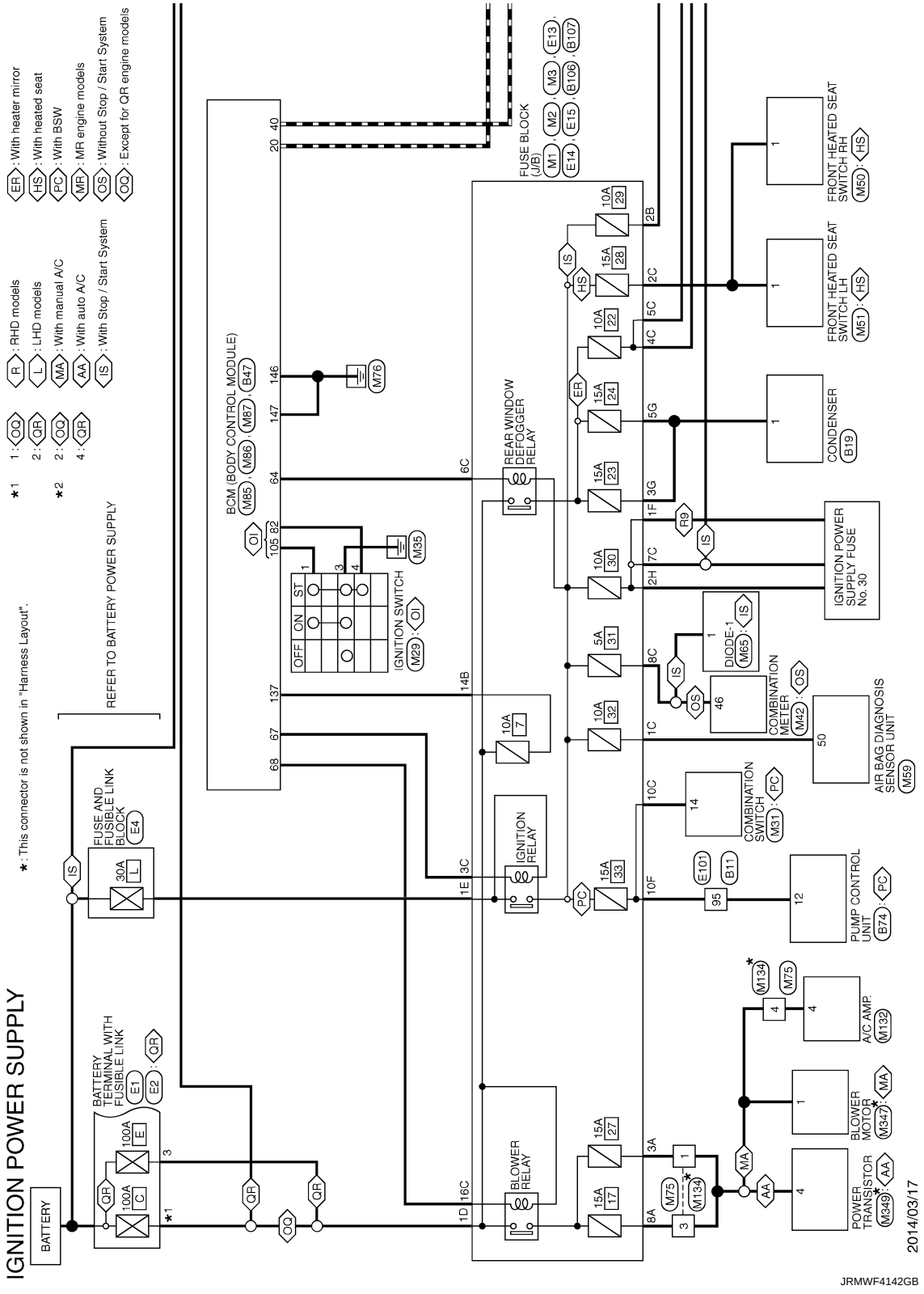
★: This connector is not shown in "Harness Layout".

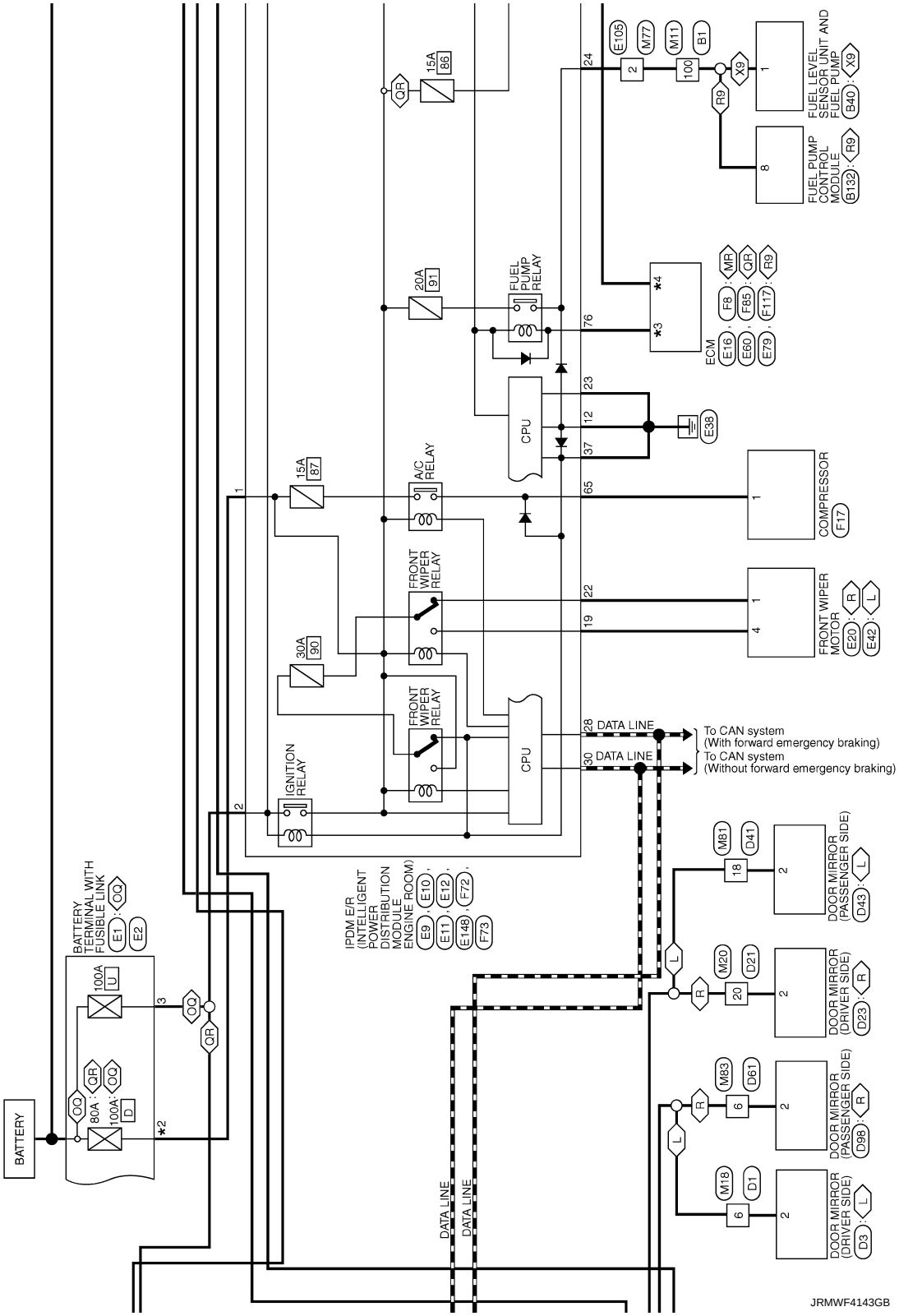
2014/03/17

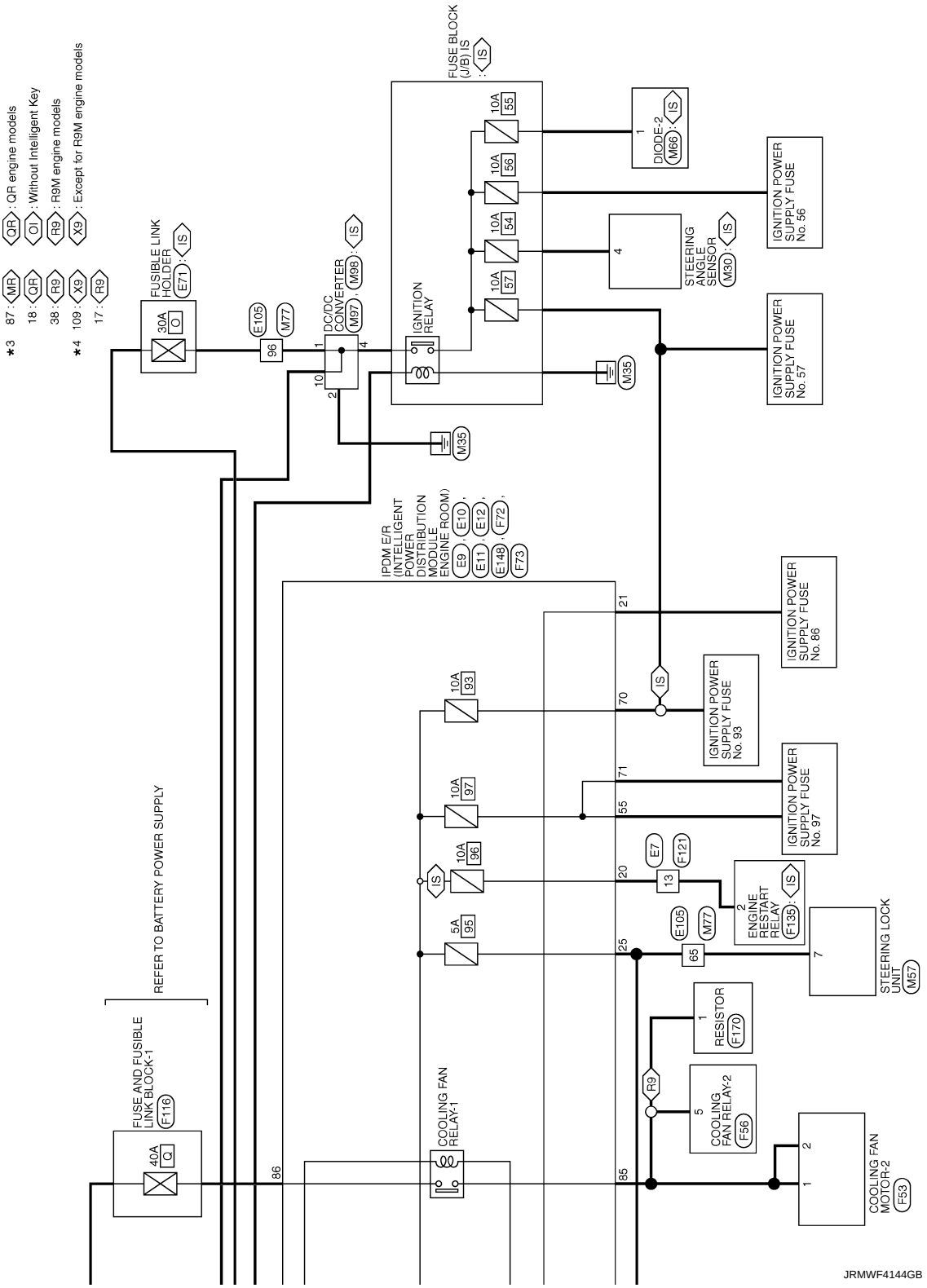
JRMWF4141GB

Wiring Diagram - IGNITION POWER SUPPLY -

INFOID:0000000010709206



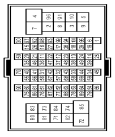

BATTERY
BATTERY TERMINAL WITH FUSIBLE LINK E1 : OQ
E2
100A U
80A : QR
OQ
100A : D
OQ
QR
OQ
QR
*2
*3
*4
15A 86
20A 91
15A 87
30A 90
FUEL PUMP RELAY
A/C RELAY
FRONT WIPER RELAY
FRONT WIPER RELAY
IGNITION RELAY
CPU
CPU
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E9 E10 E11 E12 E148 F72 F73
ECM E16 E60 E79 F8 F85 F117 MR QR R9
E105 M77 M11 B1
FUEL LEVEL SENSOR UNIT AND FUEL PUMP X9 B40
FUEL PUMP CONTROL MODULE B132 R9
E38
COMPRESSOR F17
FRONT WIPER MOTOR E20 R L E42
28 DATA LINE
30 DATA LINE
To CAN system (With forward emergency braking)
To CAN system (Without forward emergency braking)
DOOR MIRROR (PASSENGER SIDE) M81 D41 D43 L
DOOR MIRROR (DRIVER SIDE) M20 D21 D23 R
DOOR MIRROR (PASSENGER SIDE) M83 D61 D98 R
DOOR MIRROR (DRIVER SIDE) M18 D1 D3 L
DATA LINE
DATA LINE
JRMWF4143GB


QR : QR engine models
OI : Without Intelligent Key
R9 : R9M engine models
X9 : Except for R9M engine models
*3 87 : MR
18 : QR
38 : R9
109 : X9
*4 17 : R9
FUSIBLE LINK HOLDER E71 : IS
30A O
E105
96
M77
DC/DC CONVERTER M97 : M98 : IS
IGNITION RELAY
FUSE BLOCK (J/B) IS : IS
10A 55
10A 56
10A 54
10A 57
DIODE-2 M66 : IS
IGNITION POWER SUPPLY FUSE No. 56
STEERING ANGLE SENSOR M30 : IS
IGNITION POWER SUPPLY FUSE No. 57
M35
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) E9 , E10 , E11 , E12 , E148 , F72 , F73
IGNITION POWER SUPPLY FUSE No. 86
10A 93
IGNITION POWER SUPPLY FUSE No. 93
10A 97
IGNITION POWER SUPPLY FUSE No. 97
10A 96
5A 95
E7
F121
ENGINE RESTART RELAY F135 : IS
E105
M77
STEERING LOCK UNIT M57
REFER TO BATTERY POWER SUPPLY
FUSE AND FUSIBLE LINK BLOCK-1 F116
40A Q
COOLING FAN RELAY-1
RESISTOR F170
R9
COOLING FAN RELAY-2 F56
COOLING FAN MOTOR-2 F53
JRMWF4144GB

IGNITION POWER SUPPLY

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

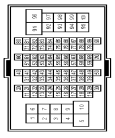
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	LA/Y	-
6	V	-
7	LA/V	-
20	L	- [With diesel engine]
20	LA/L	- [With gasoline engine]
21	B	- [With diesel engine]
21	LA/B	- [With gasoline engine]
24	G	-
25	BR	-
73	LA/Y	-
74	R	-
75	R	-
84	L	-
85	L	-
92	LA/R	-
93	LA/L	-
95	LA/BR	-
97	L	-
98	Y	-
99	LA/P	-
100	GR	- [With diesel engine]
100	LA/GR	- [With gasoline engine]

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MDGY-CS16-TM4

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	LA/BR	-
5	BG	-
11	BR	-
12	W	-
13	P	-
14	SB	-
15	V	-
16	P	-
17	P	-
18	G	-
19	P	-
20	R	-
21	BR	-
22	Y	-
23	BG	-
24	SB	-
25	G	-
26	B	-
27	P	-
28	R	-
29	LG	-
30	P	-
92	BR	-
93	GR	-
94	Y	-
95	LG	-
97	LG	-

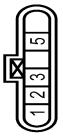
Connector No.	B19
Connector Name	CONDENSER
Connector Type	P01FB-A

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-

Connector No.	B40
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
Connector Type	E06FGY-RS

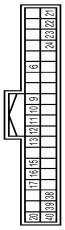
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/GR	-
2	LA/L	-
3	LA/B	-
5	LA/B	-

Connector No.	B47
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

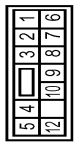
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
6	R	BACK DOOR OPENER REQUEST SW
9	G	HANDS FREE SENSOR
10	W	REAR RH DOOR SW
11	LG	BACK DOOR SW
12	R	REAR LH DOOR SW
13	SB	PASSENGER DOOR SW
15	LA/G	REAR WIPER AUTO STOP
16	Y	BACK DOOR OPENER SW
17	SB	DRIVER DOOR SW
20	L	CAN-H
21	BR	BUMPER ANTENNA(-)
22	Y	REAR ANTENNA(-)
23	L	REAR ANTENNA(+)
24	G	BUMPER ANTENNA(+)
38	V	SIREN
39	LA/W	HIGH-MOUNTED STOP LAMP
40	P	CAN-L

Connector No.	B74
Connector Name	PUMP CONTROL UNIT
Connector Type	NS12FW-CS

H.S.



JRMWF4145GB

IGNITION POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	AIR PUMP POWER SUPPLY
2	LG	AIR PUMP GROUND
3	GR	WASHER PUMP GROUND
4	Y	WASHER PUMP POWER SUPPLY
5	B	GROUND
6	V	COMMUNICATION LINE GROUND
7	L	COMMUNICATION LINE (PUMP → CAMERA)
8	BR	COMMUNICATION LINE (CAMERA → PUMP)
9	LG	REAR WASHER STATUS
10	BR	REAR WASHER SWITCH INPUT
12	LG	IGNITION POWER SUPPLY

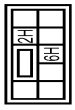
Connector No.	B106
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1G	LA/R	-
2G	P	-
3G	G	-
4G	P	-
5G	G	-

Connector No.	B107
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS08FW-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
2H	BR	-
6H	LA/L	-

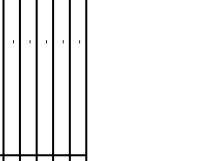
Connector No.	B132
Connector Name	FUEL PUMP CONTROL MODULE
Connector Type	FEA02FBR-RZ

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
7	B	-
8	GR	-

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LA/B	-
2	LA/B	-
3	W	-
4	V	-
5	SB	-
6	LG	-
7	GR	-
8	G	-
9	Y	-
10	B	-
11	R	-
13	LA/W	-
14	LA/Y	-
15	LA/LG	-
16	LA/V	-
17	LA/L	-
18	LA/BG	-
19	LA/R	-
22	LA/G	-
23	L	-
24	BG	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH16MW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	-
3	LA/P	-
4	LA/BR	-
5	LA/W	-
7	GR	-
8	G	-
10	B	-
11	LA/SB	-
12	LA/GR	-
14	LA/B	-
15	B	-
16	Y	-

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	B	-
4	W	-
5	V	-
6	SB	-
7	L	-
8	G	-
9	Y	-

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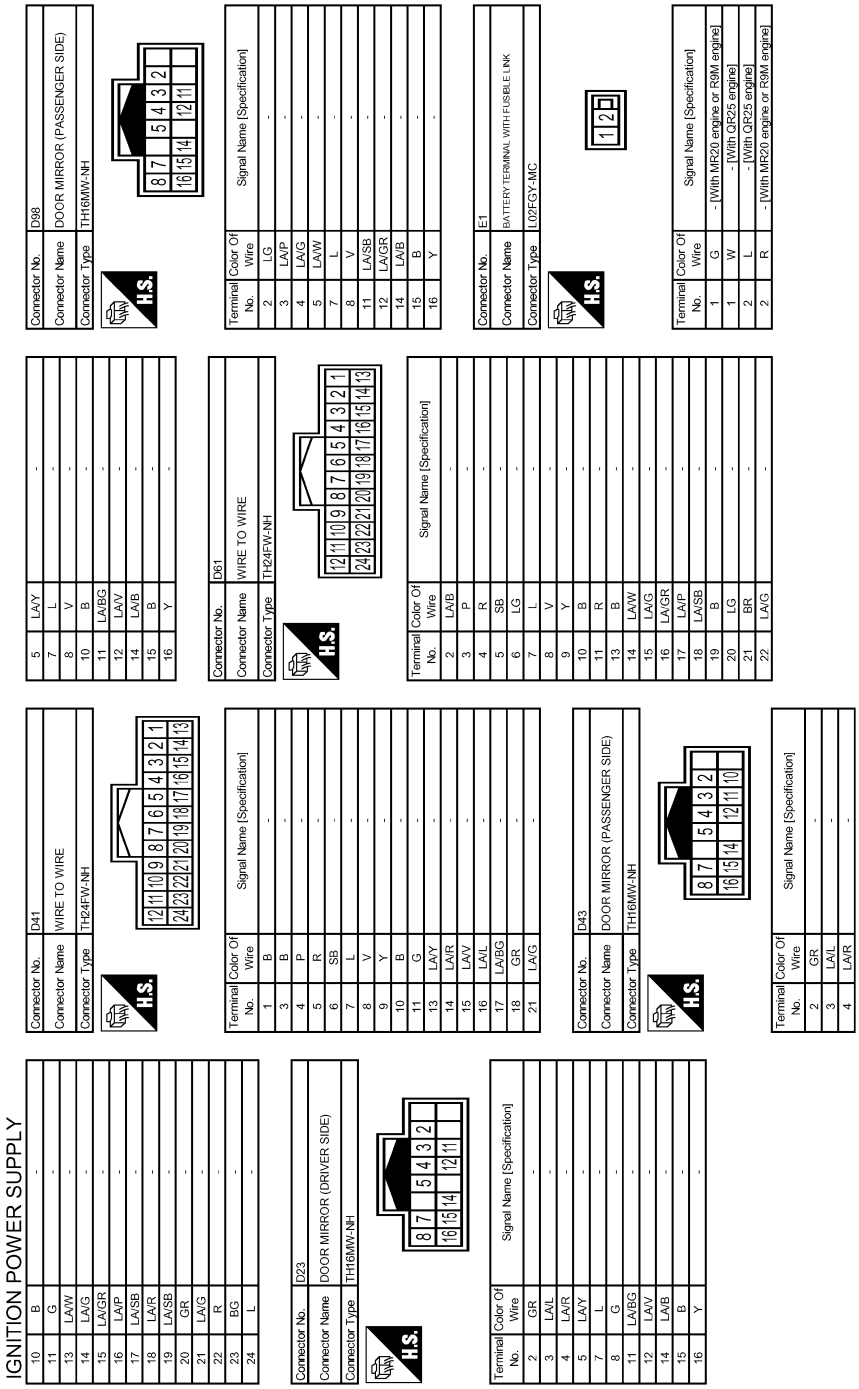


JRMWF4147GB

IGNITION POWER SUPPLY

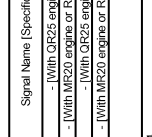
Connector No.	E2
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FBR-MC

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	G	- [With QR25 engine]
3	L	- [With MR20 engine or R9M engine]
4	R	- [With QR25 engine]
4	W	- [With MR20 engine or R9M engine]

Connector No.	E4
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	24381 7990A

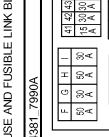
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
41	SB	-
42	P	-
43	BG	-
44	GR	-
45	V	-
46	G	-
47	L	-
48	W	-
F	R	- [With MR20 or QR25 Engine]
F	W	- [With R9M Engine]
G	BR	-
H	G	- [With R9M Engine]
H	R	- [With MR20 or QR25 Engine]
I	G	- [With QR25 Engine]
I	R	- [With R9M Engine]
J	BR	- [With MR20 or QR25 Engine]
J	R	- [With R9M Engine]
K	BG	- [With R9M Engine]
K	Y	- [With MR20 or QR25 Engine]
L	L	-
M	W	- [With MR20 or QR25 Engine]
M	Y	- [With R9M Engine]

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS16MBR-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	- [With MR20 or QR25 engine]
1	SB	- [With R9M engine]
2	BR	- [With MR20 or QR25 engine]
2	GR	- [With R9M engine]
3	G	-
4	R	-
5	B	- [With MR20 engine]
5	L	- [With R9M engine]
5	LG	- [With QR25 engine]
6	BG	-
7	G	-
8	V	- [With MR20 engine or R9M engine]
8	W	- [With QR25 engine]
9	BG	- [With R9M engine]
9	BR	- [With MR20 engine]
10	BR	-
11	Y	-
12	L	- [With R9M Engine]
12	LG	- [With QR25 engine]
13	BR	- [With MR20 or QR25 engine]
13	R	- [With R9M engine]
15	L	-
16	SB	-

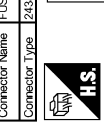
Connector No.	E9
Connector Name	PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC

H.S.

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

Connector No.	E10
Connector Name	PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
3	P	-
4	Y	-
7	L	-
8	BG	-
9	L	-
12	B	-
16	G	-
17	W	-

Connector No.	E11
Connector Name	PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	Tereault_24340540BR

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
19	V	-
20	R	-
21	LG	-
22	Y	-
23	B	-
24	W	-

Connector No.	E12
Connector Name	PDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
25	LG	-
26	W	-
27	SB	-
28	P	-
30	L	-
31	G	-
32	B	-
33	BG	-
34	LG	-
35	V	-
36	Y	-
37	B	-
38	GR	-
39	BR	-

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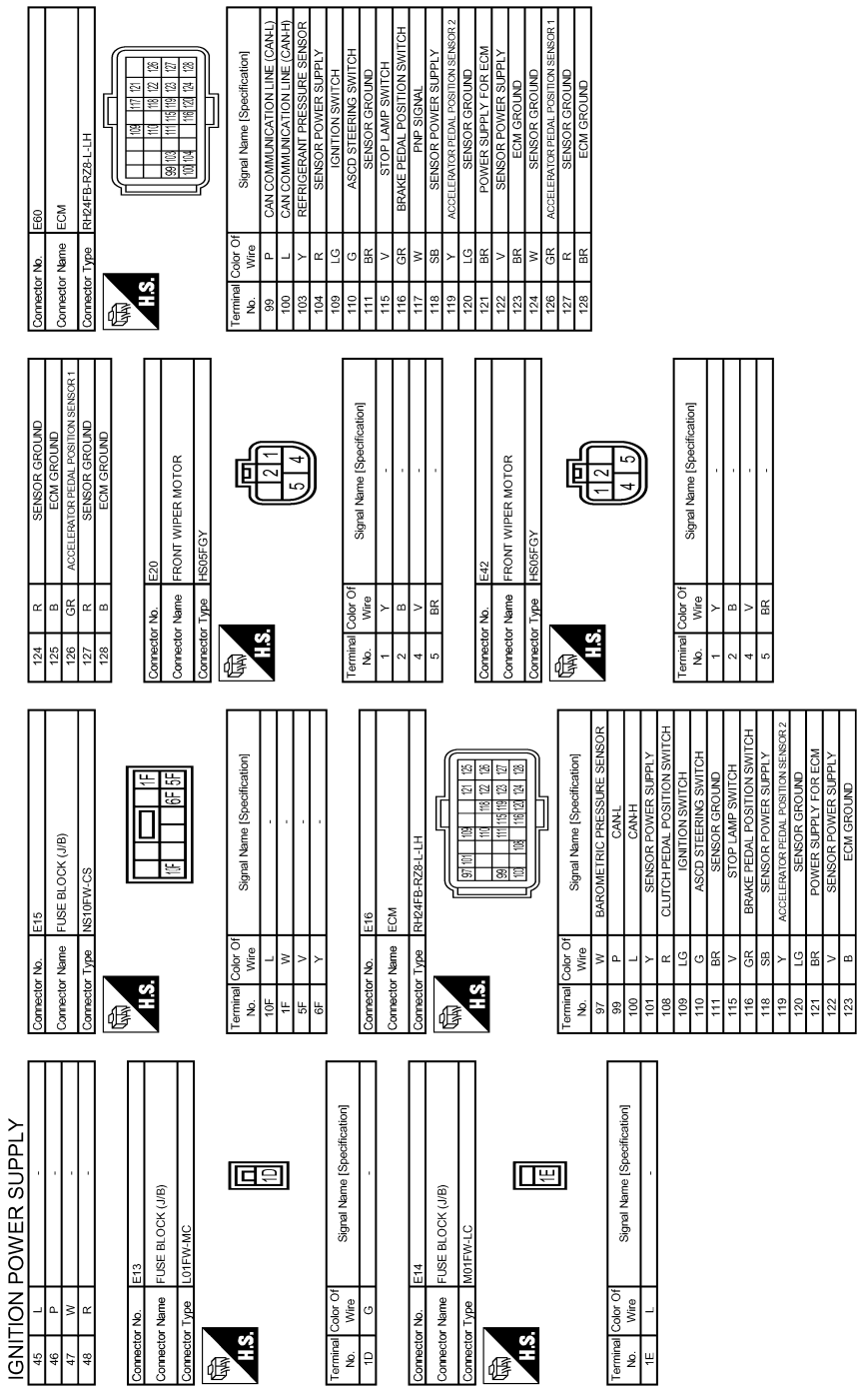

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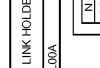
IGNITION POWER SUPPLY

Connector No.	E71
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24380_JL00A

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
N	R	-
O	GR	-

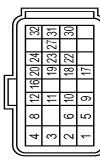
Connector No.	E78
Connector Name	DISTANCE SENSOR
Connector Type	AAZ08FB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	L	CAN-H
3	R	CAN-L
5	L	CHASSIS COMM-H
6	W	CHASSIS COMM-L
8	P	IGNITION

Connector No.	E79
Connector Name	ECM
Connector Type	RH24FB-RZ8-R-RH

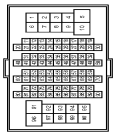
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	ECM GROUND
2	W	ACCELERATOR PEDAL POSITION SENSOR 1
3	Y	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 1)
4	B	ECM GROUND
5	L	POWER SUPPLY FOR ECM
6	G	SENSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 1)
8	B	ECM GROUND
9	L	FUEL HEATER AND WATER IN FUEL LEVEL SENSOR
10	L	SENSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 2)
11	V	ACCELERATOR PEDAL POSITION SENSOR 2
12	P	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 2)
16	BG	STOP LAMP SWITCH [With M/T]
16	R	BRAKE PEDAL POSITION SWITCH [With CVT]
17	LG	IGNITION SWITCH
18	G	ASCD STEERING SWITCH
19	BR	SENSOR GROUND (ASCD STEERING SWITCH)
20	BR	FUEL PUMP CONTROL MODULE (COMMAND)
22	G	FUEL PUMP CONTROL MODULE (DIAGNOSIS)
23	V	SPEED LIMITER MAIN SWITCH
24	R	CLUTCH PEDAL POSITION SWITCH
27	V	CLUTCH INTERLOCK SWITCH
30	BR	ASCD MAIN SWITCH
31	P	CAN-L
32	L	CAN-H

Connector No.	E101
Connector Name	WIRE TO WIRE
Connector Type	TH80FDGY-CS16-TM4

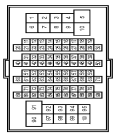
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	W	-
5	G	-
11	BR	-
12	W	-
13	P	-
14	SB	-
15	V	-
16	P	-
17	P	-
18	G	-
19	P	-
20	G	-
21	BR	-
22	LG	-
23	Y	-
24	SB	-
25	G	-
26	B	-
27	P	-
28	R	-
29	LG	-
30	P	-
92	BR	-
93	GR	-
94	R	-
95	L	-
97	LG	-

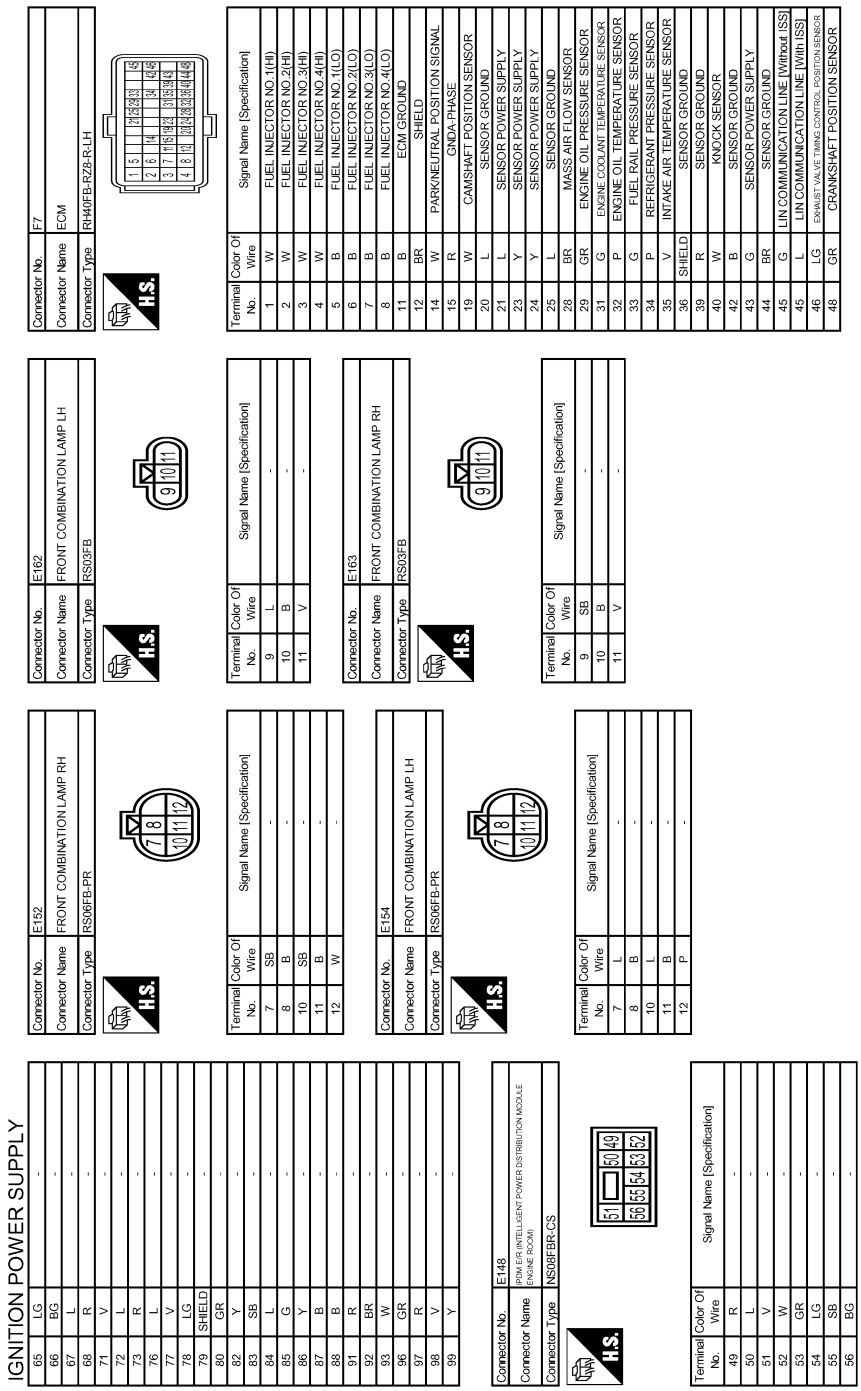
Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



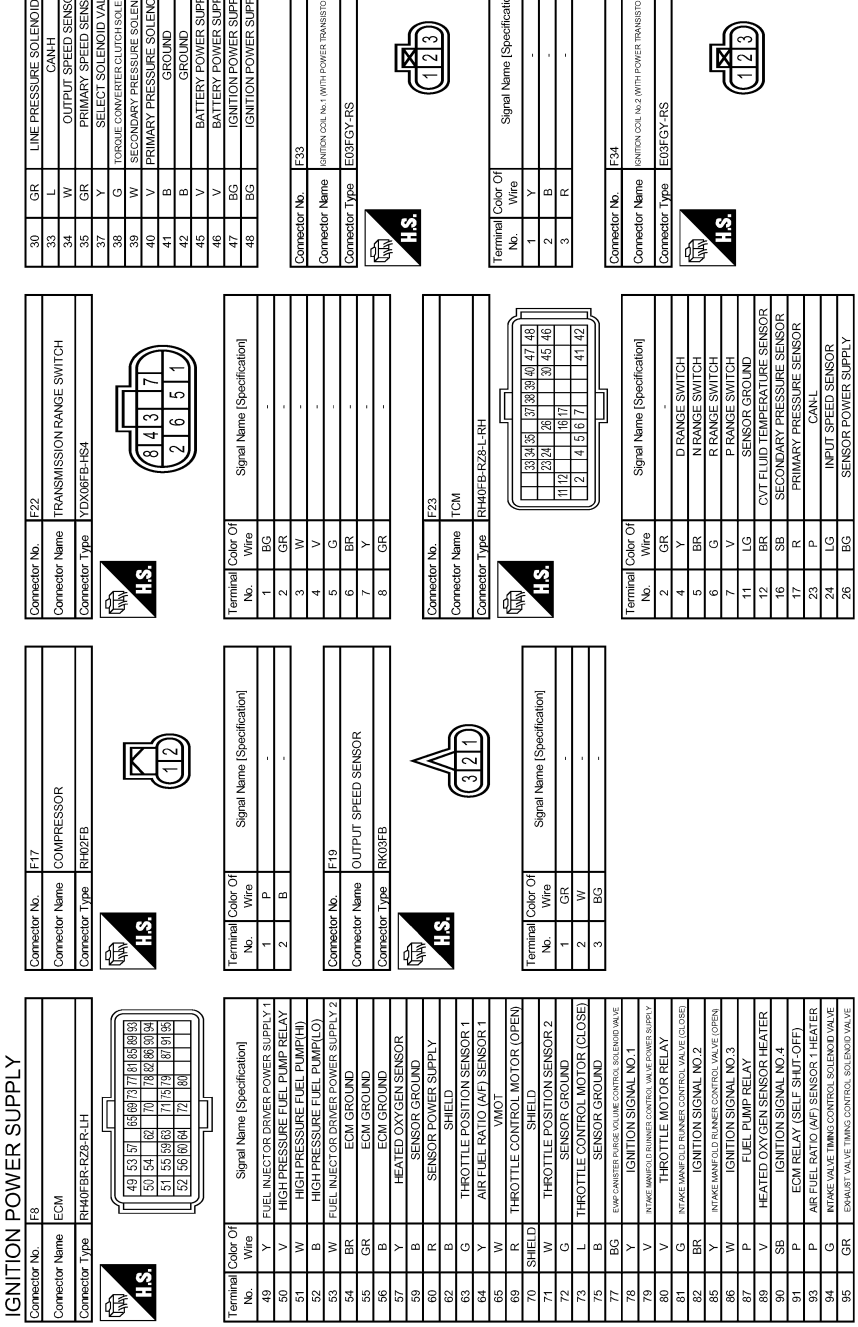
Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
5	V	- [Without ISS]
5	W	- [With ISS]
8	L	-
9	LG	-
10	W	-
20	W	-
21	B	-
22	SHIELD	-
31	Y	-
32	W	-
33	SB	-
34	LG	-
35	BG	-
36	LG	-
37	V	-
38	G	-
39	BR	-
40	L	-
41	P	-
47	GR	-
48	SB	-
51	P	-
52	L	-
53	W	-
54	Y	-
55	BR	-
56	P	-
57	B	-
58	L	-
59	W	-
60	G	-
61	BR	-
62	V	-
63	BR	-
64	GR	-

JRMWF4150GB



JRMWF4151GB

IGNITION POWER SUPPLY



JRMWF4152GB

IGNITION POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	GR	-
3	P	-

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	W	-
2	B	-
3	BG	-

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	BR	-

Connector No.	F37
Connector Name	FUEL INJECTOR No.1
Connector Type	HS02FGY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	- [With QR25 engine]
1	W	- [With MR20 engine]
2	B	- [With MR20 engine]
2	L	- [With QR25 engine]

Connector No.	F38
Connector Name	FUEL INJECTOR No.2
Connector Type	HS02FGY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	BG	- [With QR25 engine]
1	W	- [With MR20 engine]
2	B	- [With MR20 engine]
2	G	- [With QR25 engine]

Connector No.	F39
Connector Name	FUEL INJECTOR No.3
Connector Type	HS02FGY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	- [With MR20 engine]
2	P	- [With QR25 engine]

Connector No.	F40
Connector Name	FUEL INJECTOR No.4
Connector Type	HS02FGY

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	- [With QR25 engine]
1	W	- [With MR20 engine]
2	B	- [With MR20 engine]
2	Y	- [With QR25 engine]

Connector No.	F46
Connector Name	REVERSE / NEUTRAL POSITION SWITCH
Connector Type	FEA03FG-LC

H.S.

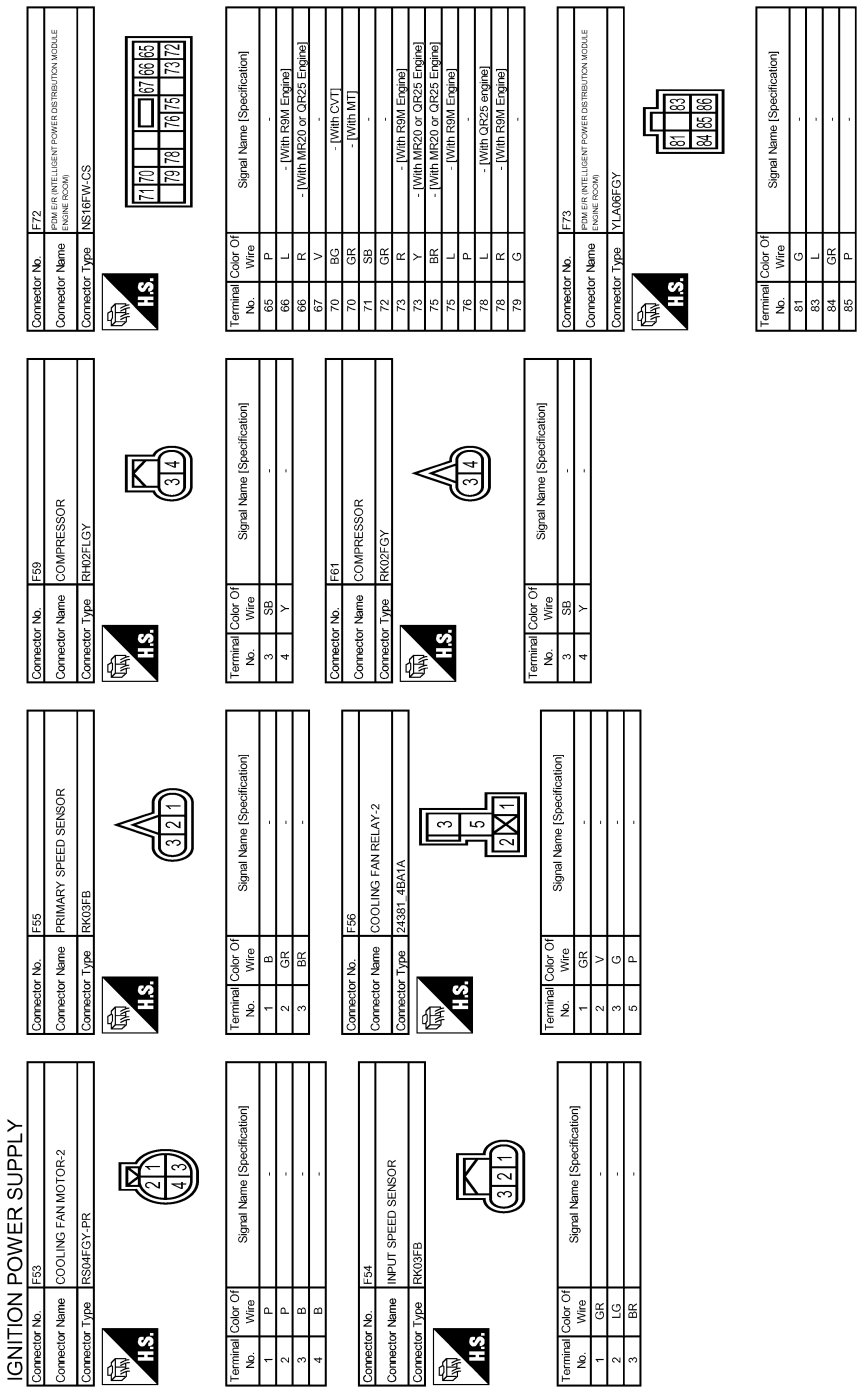
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	W	-
3	SB	-

Connector No.	F48
Connector Name	NEUTRAL POSITION SWITCH
Connector Type	RK02FB

H.S.

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

JRMWF4153GB



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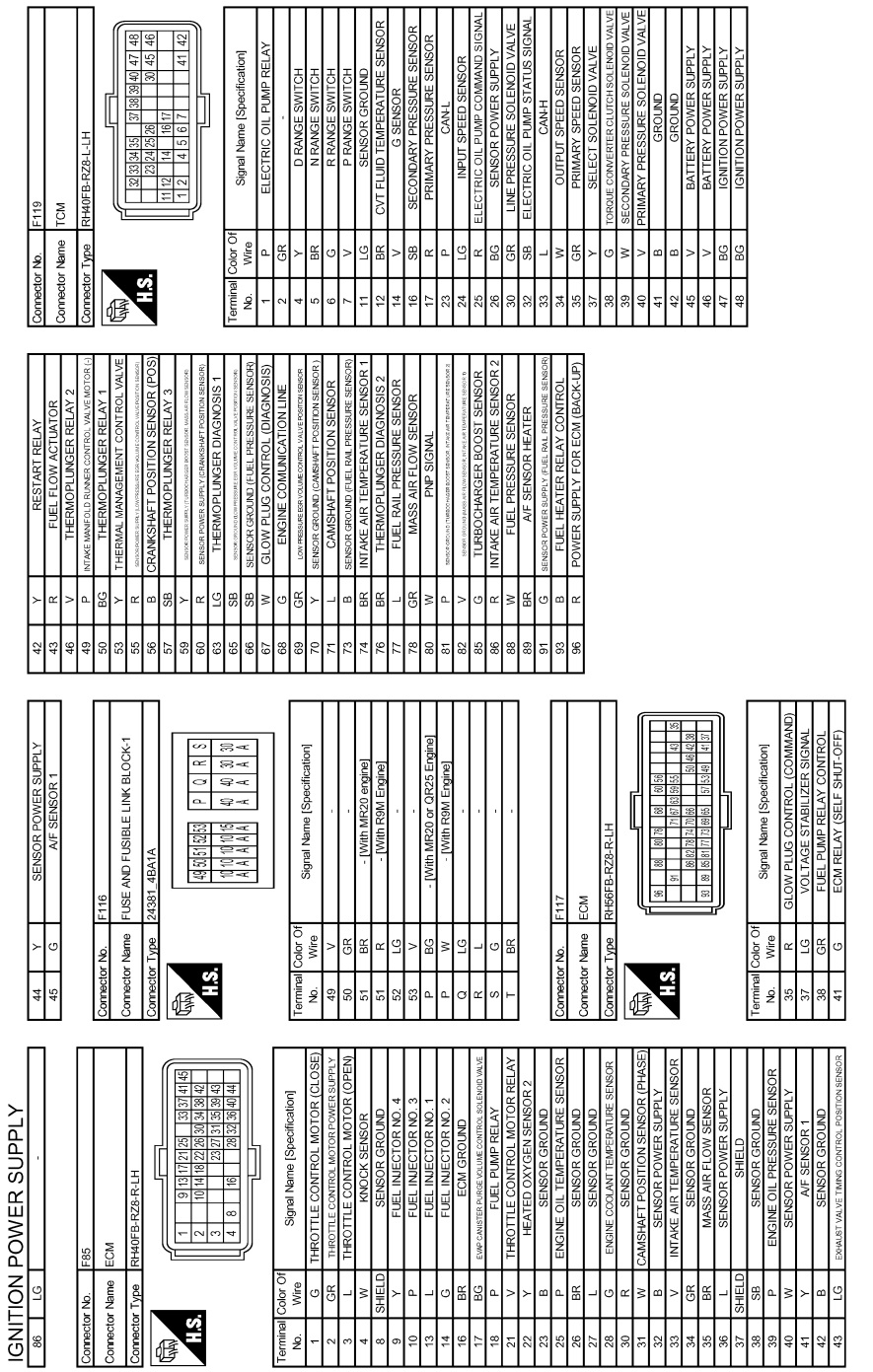
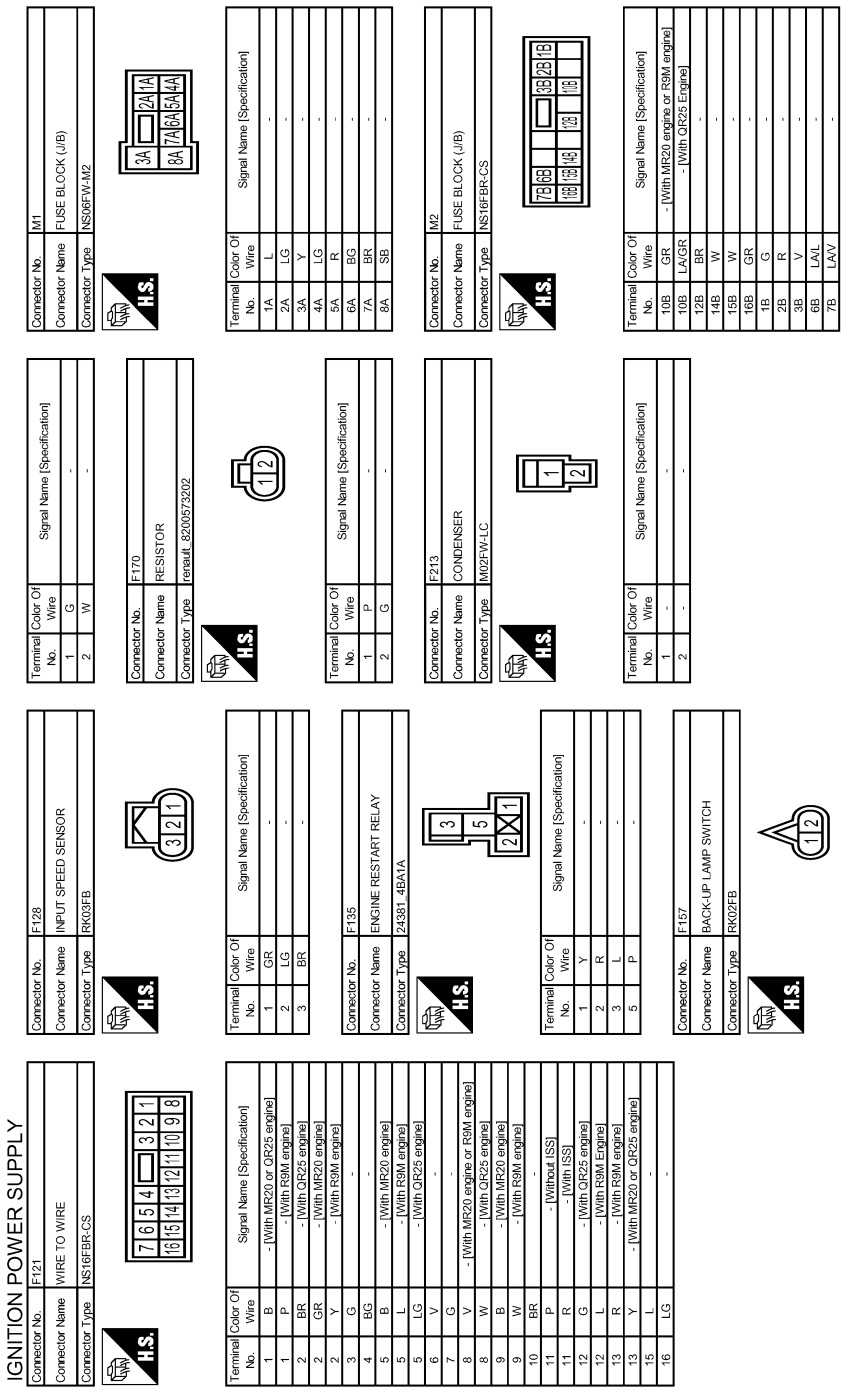


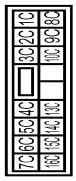
JRMWF4155GB



JRMWF4156GB

IGNITION POWER SUPPLY

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



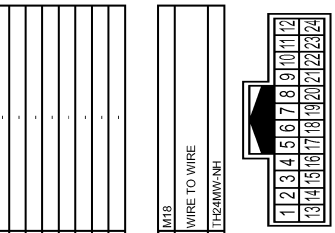
Terminal No.	Color Of Wire	Signal Name [Specification]
10C	LG	-
13C	LA/G	-
14C	R	-
15C	L	-
16C	LA/W	-
1C	R	-
2C	G	-
3C	Y	-
4C	LG	-
5C	GR	-
6C	LA/R	-
7C	Y	-
8C	BR	- [With ISS]
8C	LA/BR	- [Without ISS]
9C	L	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	Y	-
6	GR	-
7	LG	-
20	LA/L	-

21	LA/B	-
24	G	-
25	BR	-
73	Y	-
74	R	-
75	R	-
84	L	-
85	L	-
92	LA/W	-
93	LA/Y	-
95	SB	-
97	BG	-
98	Y	-
99	W	-
100	LA/R	-

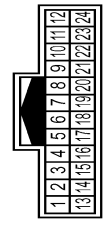
Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	Y	-
4	V	-
5	BR	-
6	LG	-
7	L	-
8	Y	-
9	G	-
10	SHIELD	-
11	R	-
13	GR	-
14	LA/SB	-
15	LA/GR	-
16	LA/V	-
17	LA/L	-
18	LA/BG	-
19	LA/R	-
22	LA/G	-

23	BG	-
24	SB	-

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

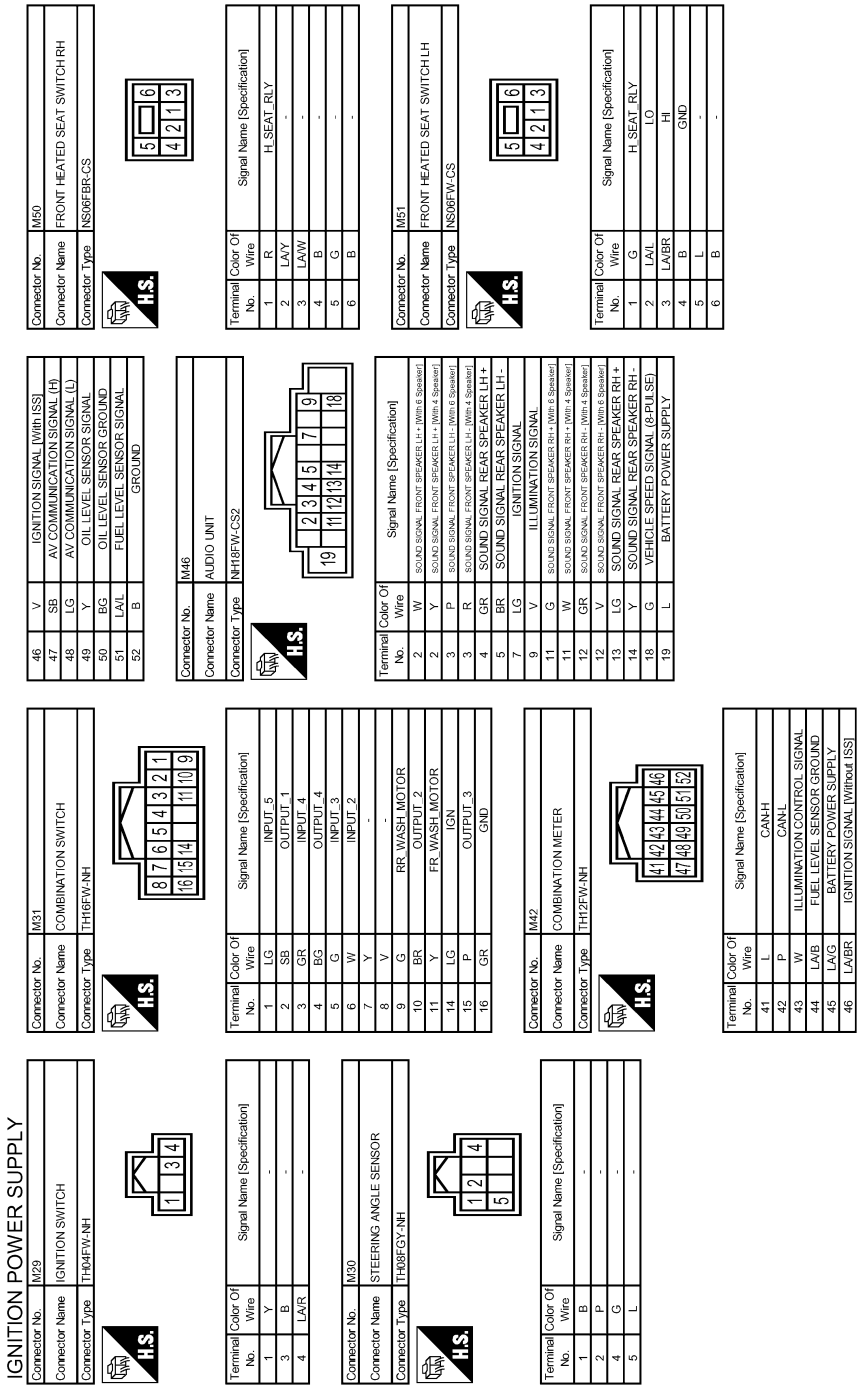


Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
3	GR	-
4	Y	-
5	V	-
6	BR	-
7	L	-
8	Y	-
9	G	-
10	SHIELD	-
11	G	-
13	LA/W	-
14	LA/G	-
15	LA/GR	-
16	LA/P	-
17	LA/SB	-
18	LA/R	-
19	GR	-
20	GR	-
21	LA/Y	-
22	R	-
23	SB	-
24	BG	-

Connector No.	M24
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH

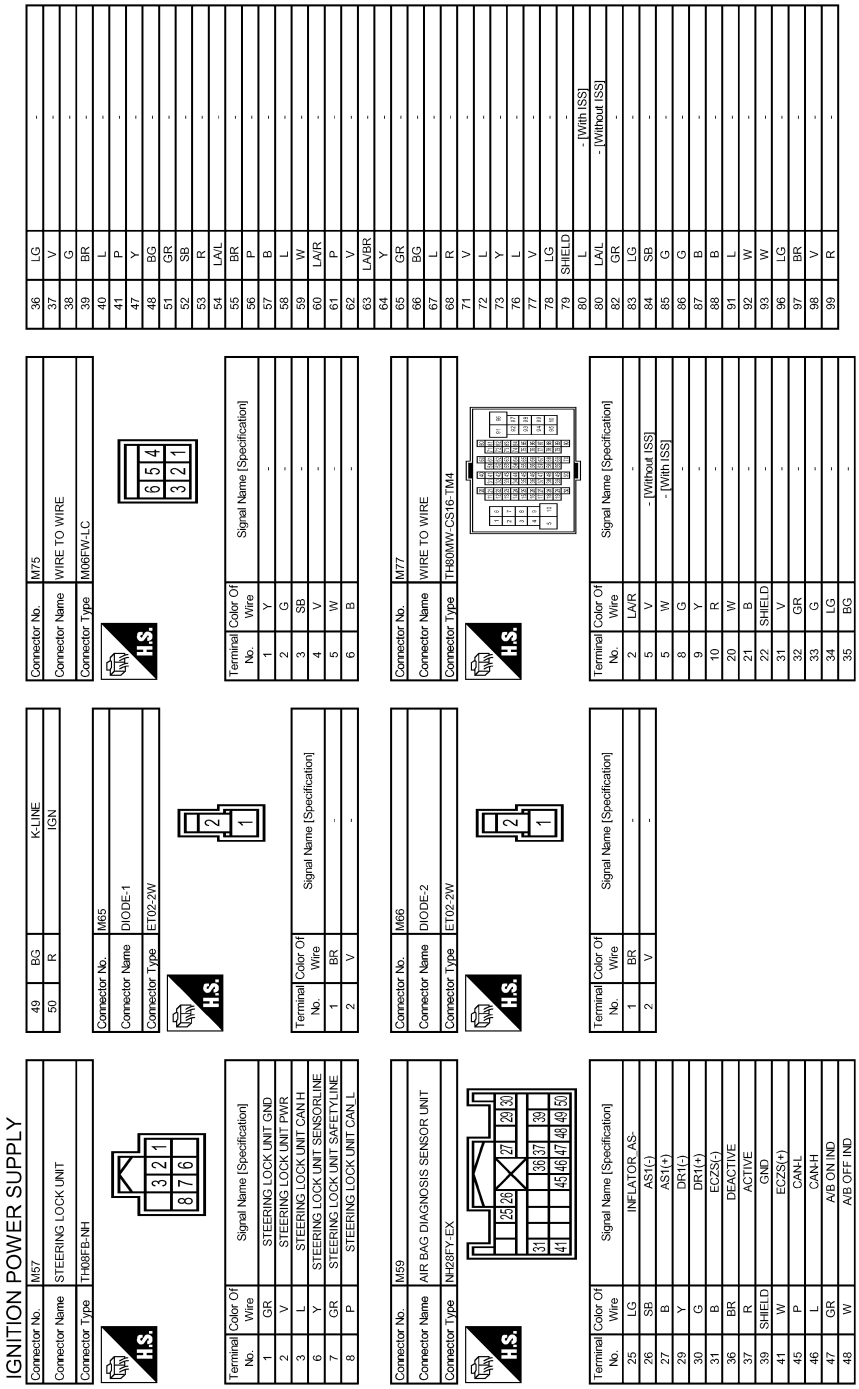
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	Y	BATTERY POWER SUPPLY
4	SB	IGNITION SIGNAL
10	R	CAN-L
12	L	CAN-H
23	SHIELD	CAMERA IMAGE SIGNAL GROUND
24	G	CAMERA IMAGE SIGNAL
25	B	REAR CAMERA GROUND
26	R	REAR CAMERA POWER SUPPLY
27	SHIELD	REAR CAMERA IMAGE SIGNAL (-)
28	W	REAR CAMERA IMAGE SIGNAL (+)
29	Y	SIDE CAMERA DRIVER SIDE GROUND
30	L	SIDE CAMERA DRIVER SIDE POWER SUPPLY
31	SHIELD	SIDE CAMERA DRIVER SIDE IMAGE SIGNAL (-)
32	G	SIDE CAMERA DRIVER SIDE IMAGE SIGNAL (+)
33	L	SIDE CAMERA PASSENGER SIDE CAMERA GROUND
34	B	SIDE CAMERA PASSENGER SIDE CAMERA POWER SUPPLY
35	SHIELD	SIDE CAMERA PASSENGER SIDE CAMERA IMAGE SIGNAL (-)
36	Y	SIDE CAMERA PASSENGER SIDE CAMERA IMAGE SIGNAL (+)
37	V	FRONT CAMERA GROUND
38	L	FRONT CAMERA POWER SUPPLY
39	SHIELD	FRONT CAMERA IMAGE SIGNAL (-)
40	LG	FRONT CAMERA IMAGE SIGNAL (+)

JRMWF4157GB

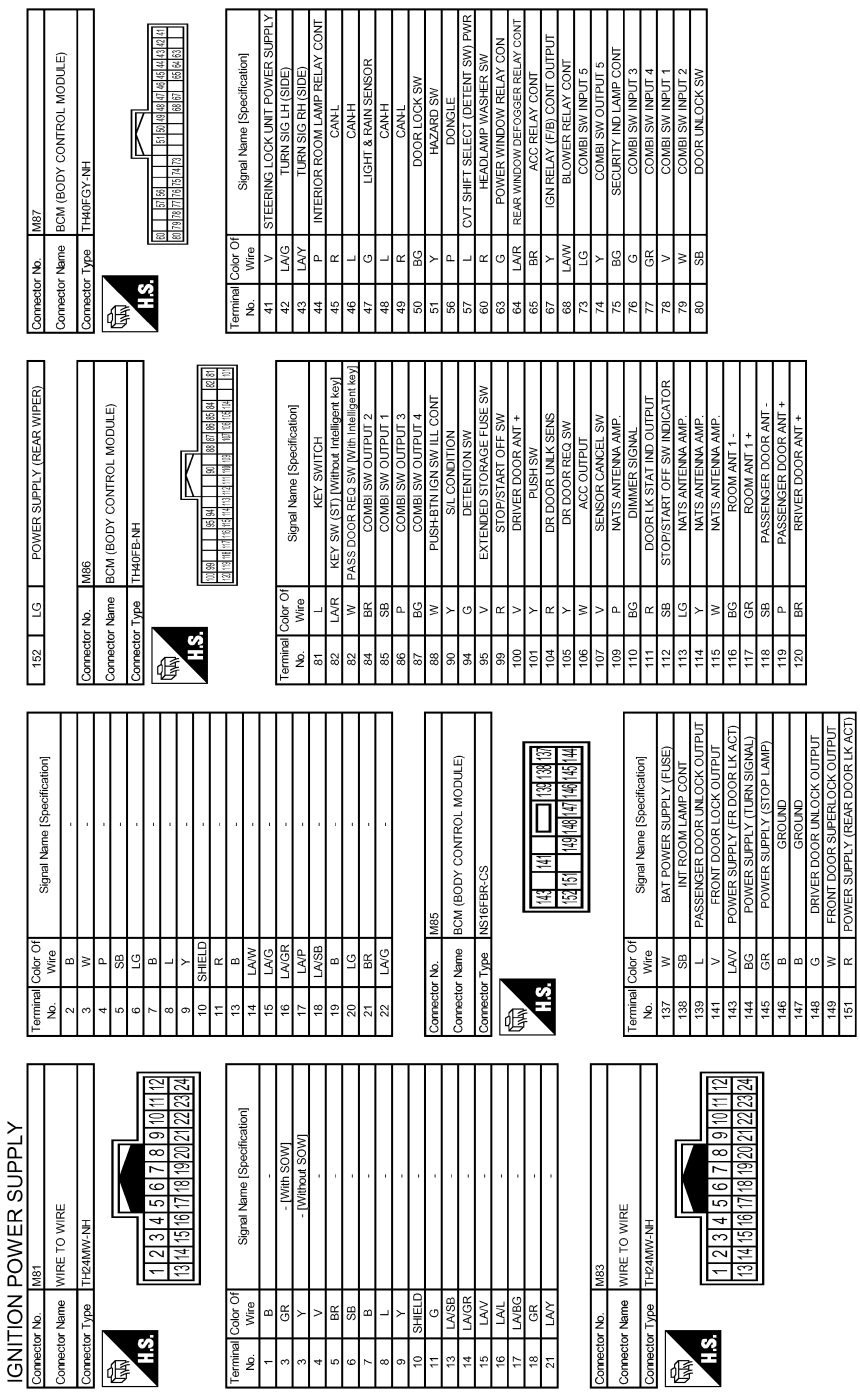


JRMWF4158GB

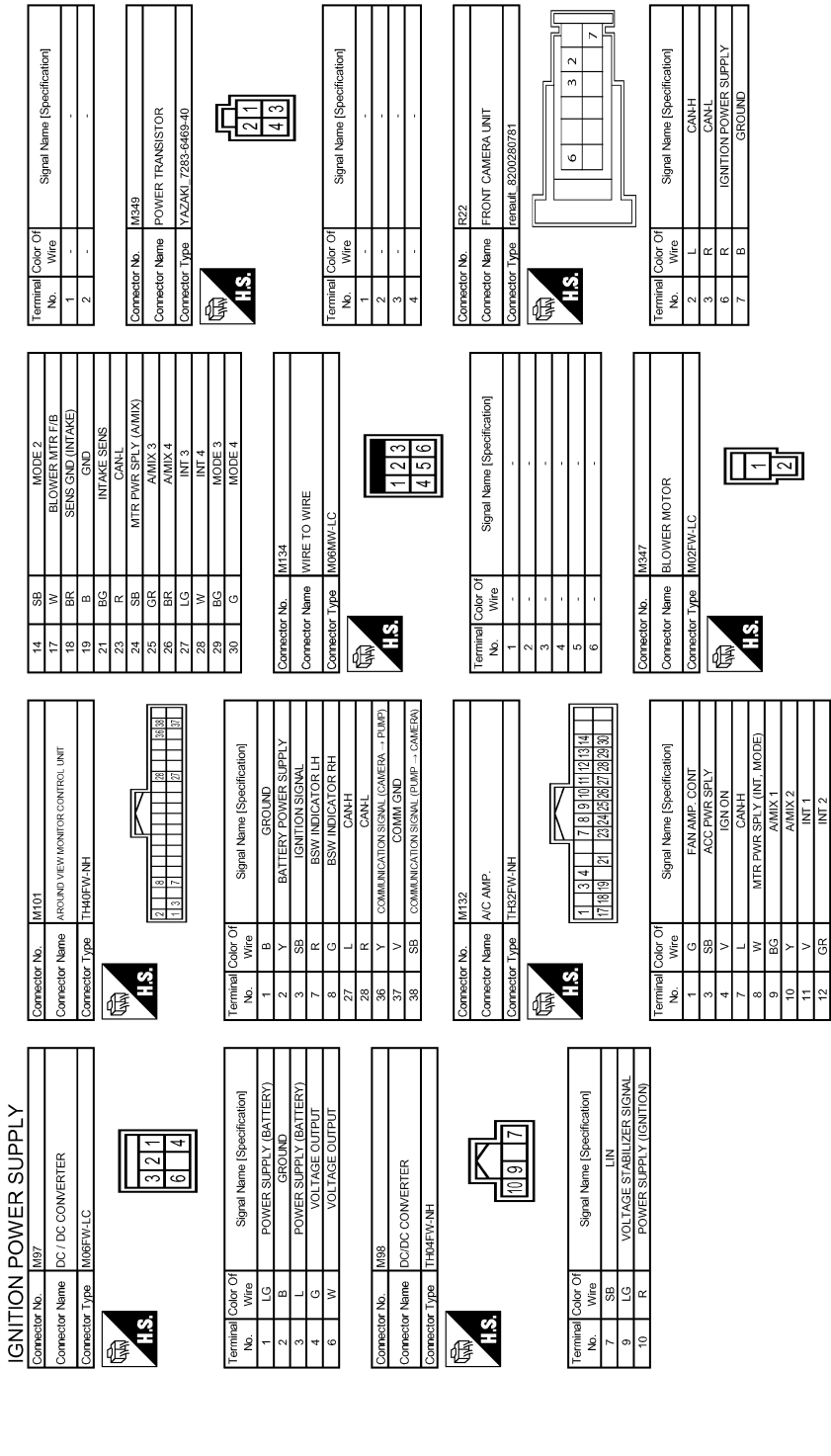
IGNITION POWER SUPPLY



JRMWF4159GB



JRMWF4160GB



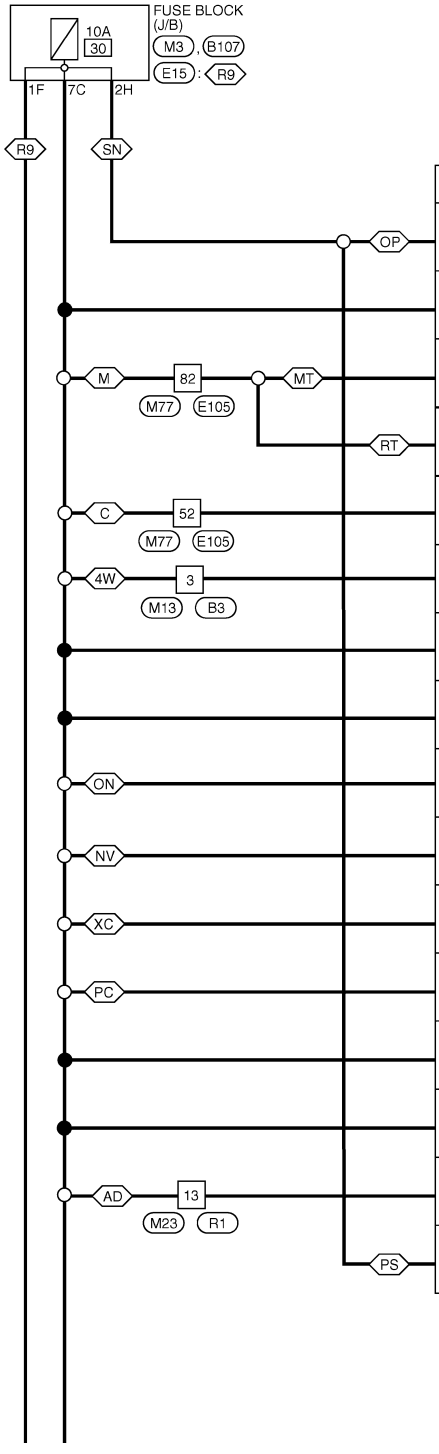
JRMWF4161GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 30 -

INFOID:0000000010709207

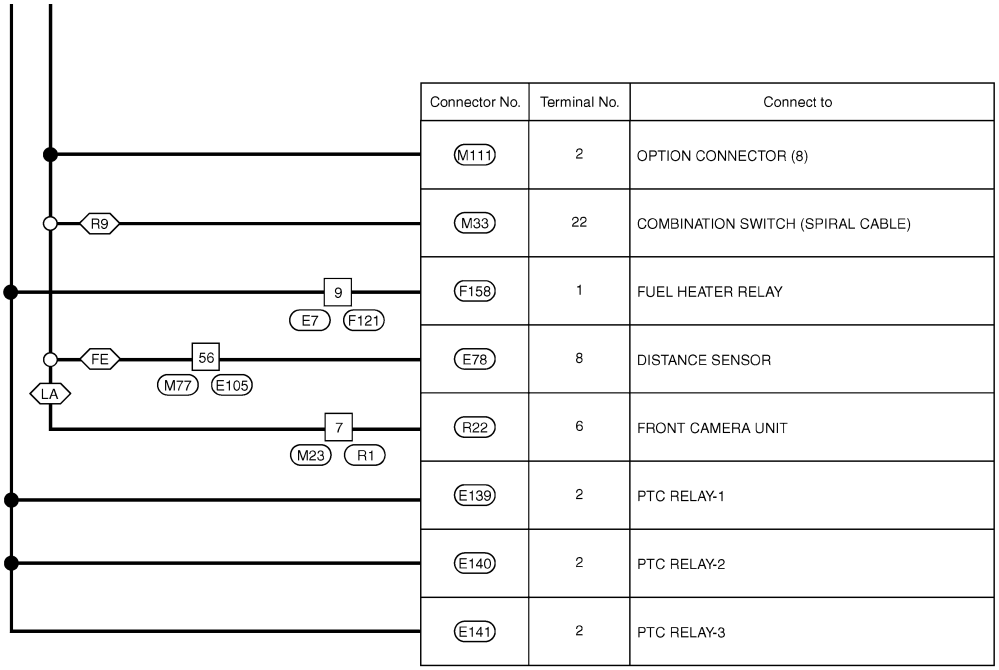
IGNITION POWER SUPPLY FUSE No. 30

RT : R9M engine models with M/T
FE : With FEB
M : With M/T
ON : Without NAVI
R9 : R9M engine models
MT : MR engine models with M/T
OP : Without park assist
PS : With park assist
SN : With sonar system
AD : With auto anti-dazzling inside mirror
4W : 4WD models
XC : Without BSW
C : With CVT
PC : With BSW
LA : With LDW
NV : With NAVI



Connector No.	Terminal No.	Connect to
B101	12	SONAR CONTROL UNIT
M30	4	STEERING ANGLE SENSOR
E120	3	STOP LAMP SWITCH
E121	3	STOP LAMP SWITCH
E115	3	STOP LAMP SWITCH
B5	7	4WD CONTROL UNIT
M37	4	EPS CONTROL UNIT
M4	8	DATA LINK CONNECTOR
M46	7	AUDIO UNIT
M28	40	NAVI CONTROL UNIT
M24	4	AROUND VIEW MONITOR CONTROL UNIT
M101	3	AROUND VIEW MONITOR CONTROL UNIT
M137	22	ELECTRIC PARKING BRAKE CONTROL MODULE
M73	10	CHASSIS CONTROL MODULE
R14	1	AUTO ANTI-DAZZLING INSIDE MIRROR
B129	14	SONAR CONTROL UNIT

JRMWF4163GB



Connector No.	Terminal No.	Connect to
M111	2	OPTION CONNECTOR (8)
M33	22	COMBINATION SWITCH (SPIRAL CABLE)
F158	1	FUEL HEATER RELAY
E78	8	DISTANCE SENSOR
R22	6	FRONT CAMERA UNIT
E139	2	PTC RELAY-1
E140	2	PTC RELAY-2
E141	2	PTC RELAY-3

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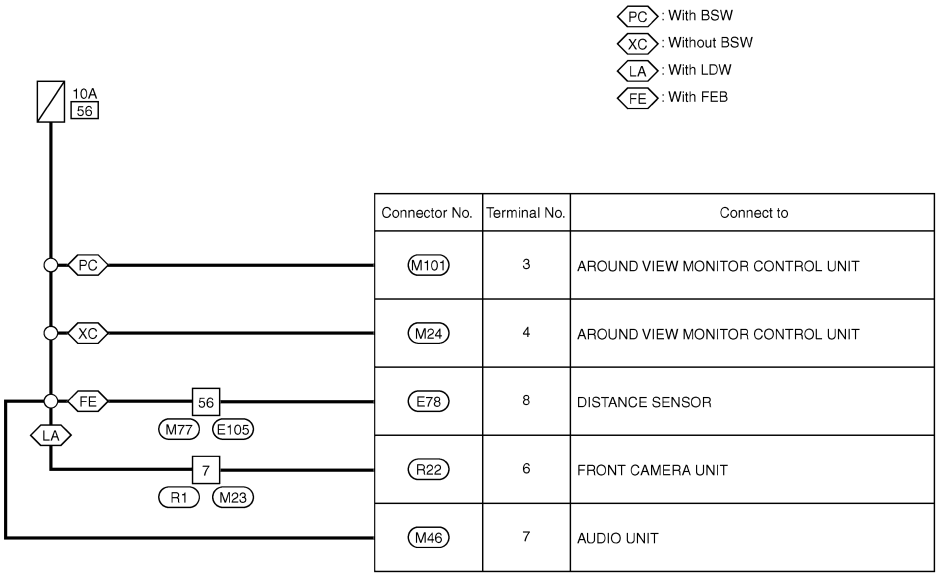
JRMWF4164GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 56 -

INFOID:0000000010709208

IGNITION POWER SUPPLY FUSE No. 56



Connector No.	Terminal No.	Connect to
M101	3	AROUND VIEW MONITOR CONTROL UNIT
M24	4	AROUND VIEW MONITOR CONTROL UNIT
E78	8	DISTANCE SENSOR
R22	6	FRONT CAMERA UNIT
M46	7	AUDIO UNIT

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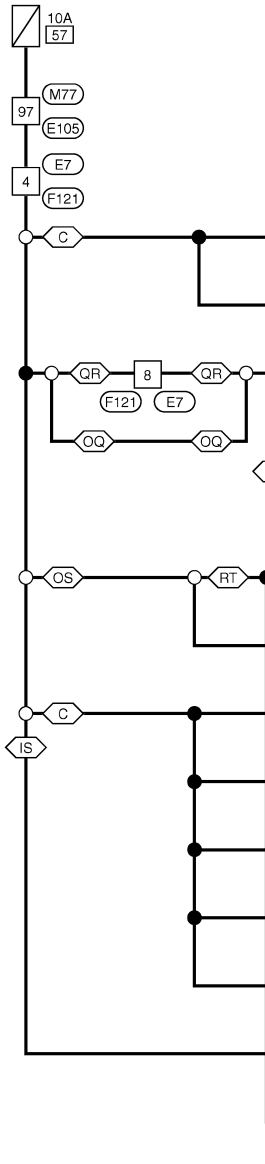
JRMWF4166GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 57 -

INFOID:0000000010709209

IGNITION POWER SUPPLY FUSE No. 57

R9 : R9M engine models
C : With CVT
OS : Without Stop / Start System
QR : QR engine models
OQ : Except for QR engine models
RT : R9M engine models with M/T
IS : With Stop / Start System
MR : MR engine models



Connector No.	Terminal No.	Connect to
F22	1	TRANSMISSION RANGE SWITCH
F72	70	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
F7	14	ECM
E60	117	ECM
F117	80	ECM
F48	2	NEUTRAL POSITION SWITCH
F72	71	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
F119	47	TCM
F55	3	PRIMARY SPEED SENSOR
F19	3	SECONDARY SPEED SENSOR
F128	3	INPUT SPEED SENSOR
F119	48	TCM
F22	3	TRANSMISSION RANGE SWITCH
F157	1	BACK-UP LAMP SWITCH

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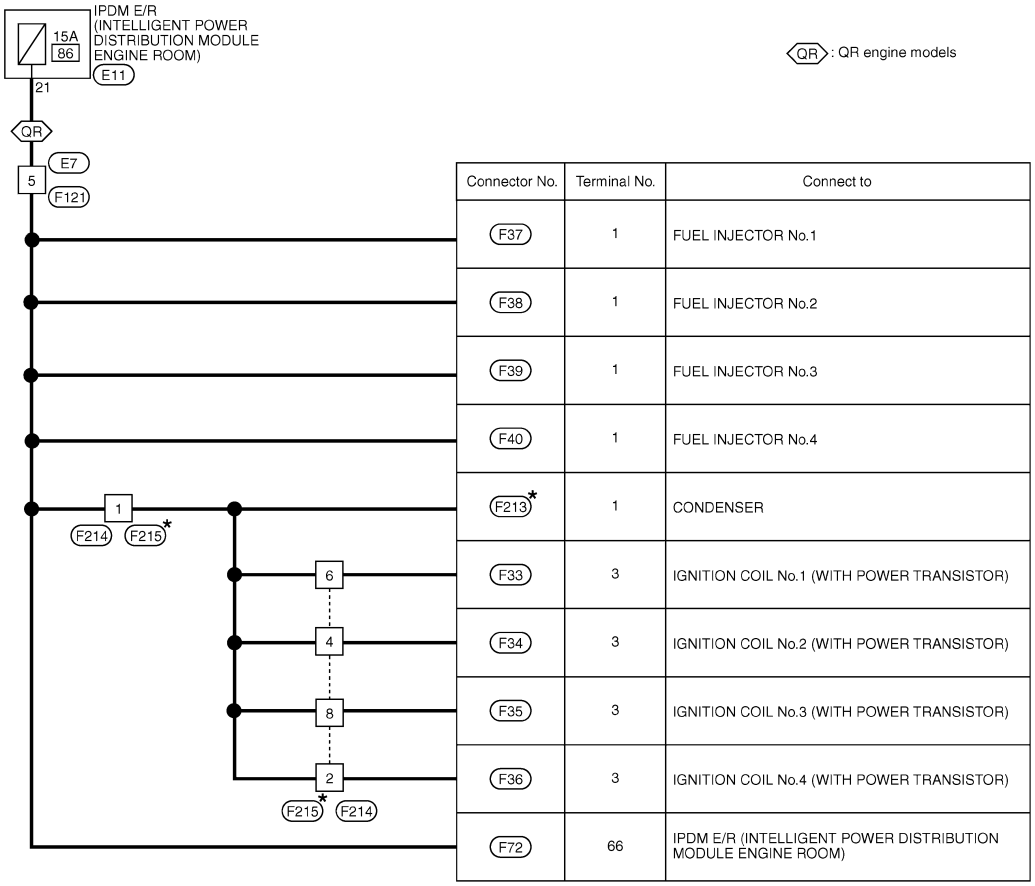
JRMWF4167GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 86 -

INFOID:0000000010763706

IGNITION POWER SUPPLY FUSE No. 86



Connector No.	Terminal No.	Connect to
F37	1	FUEL INJECTOR No.1
F38	1	FUEL INJECTOR No.2
F39	1	FUEL INJECTOR No.3
F40	1	FUEL INJECTOR No.4
F213*	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)
F72	66	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

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

2014/03/17

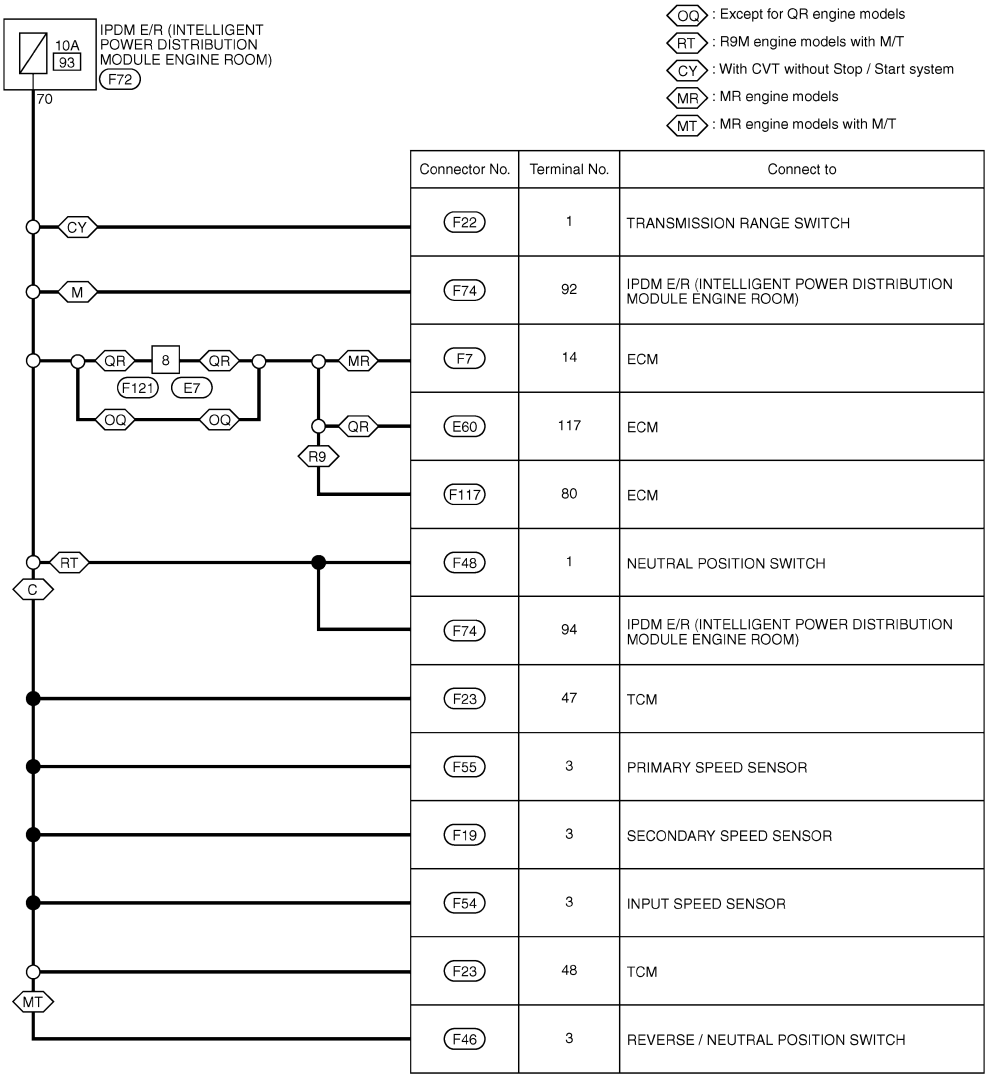
JRMWF4168GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 93 -

INFOID:0000000010763707

IGNITION POWER SUPPLY FUSE No. 93

R9 : R9M engine models
C : With CVT
M : With M/T
QR : QR engine models
OQ : Except for QR engine models
RT : R9M engine models with M/T
CY : With CVT without Stop / Start system
MR : MR engine models
MT : MR engine models with M/T



Connector No.	Terminal No.	Connect to
F22	1	TRANSMISSION RANGE SWITCH
F74	92	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
F7	14	ECM
E60	117	ECM
F117	80	ECM
F48	1	NEUTRAL POSITION SWITCH
F74	94	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
F23	47	TCM
F55	3	PRIMARY SPEED SENSOR
F19	3	SECONDARY SPEED SENSOR
F54	3	INPUT SPEED SENSOR
F23	48	TCM
F46	3	REVERSE / NEUTRAL POSITION SWITCH

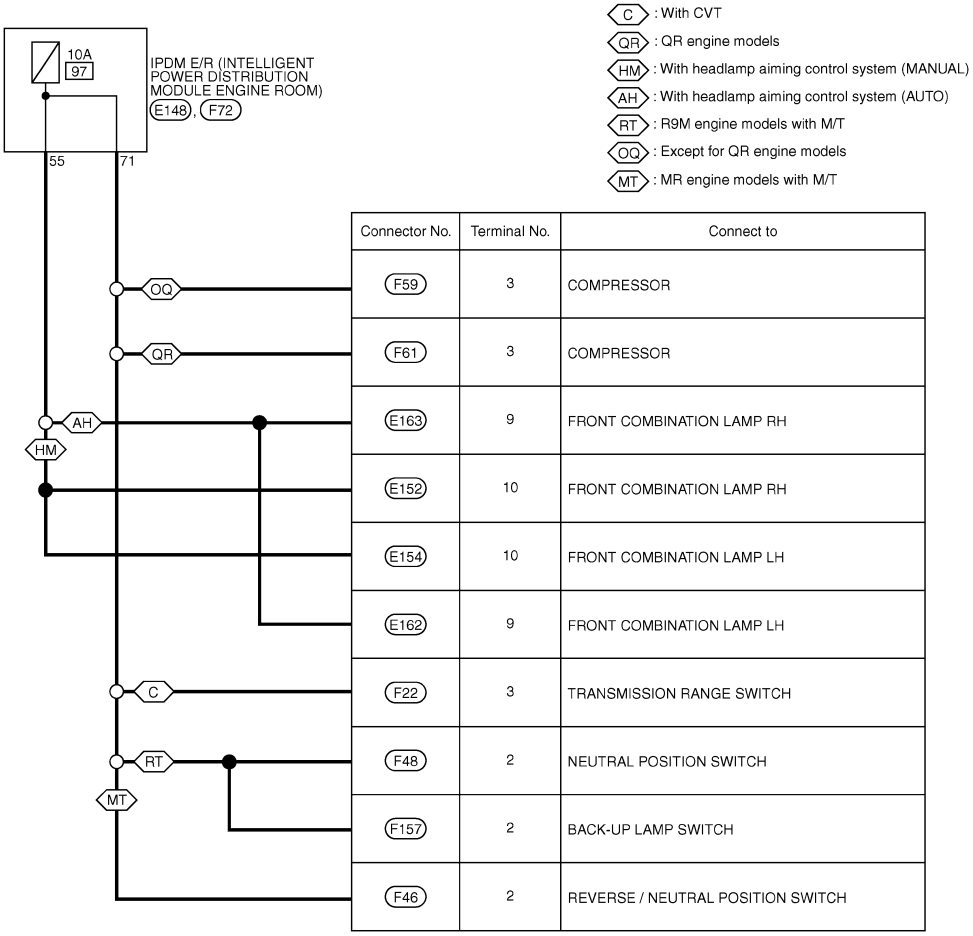
2014/03/17

JRMWF4169GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 97 -

INFOID:0000000010763708

IGNITION POWER SUPPLY FUSE No. 97



Connector No.	Terminal No.	Connect to
F59	3	COMPRESSOR
F61	3	COMPRESSOR
E163	9	FRONT COMBINATION LAMP RH
E152	10	FRONT COMBINATION LAMP RH
E154	10	FRONT COMBINATION LAMP LH
E162	9	FRONT COMBINATION LAMP LH
F22	3	TRANSMISSION RANGE SWITCH
F48	2	NEUTRAL POSITION SWITCH
F157	2	BACK-UP LAMP SWITCH
F46	2	REVERSE / NEUTRAL POSITION SWITCH

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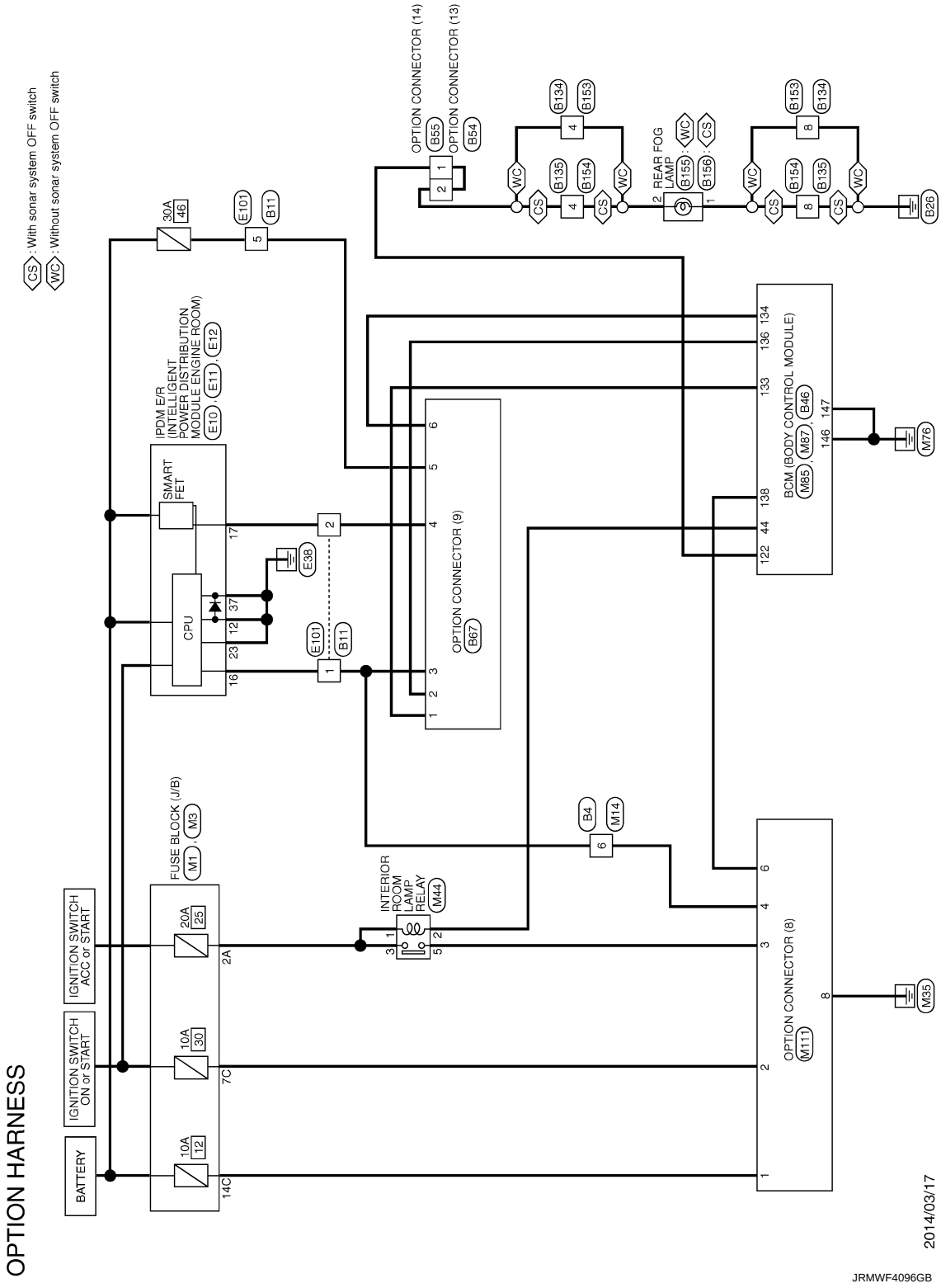
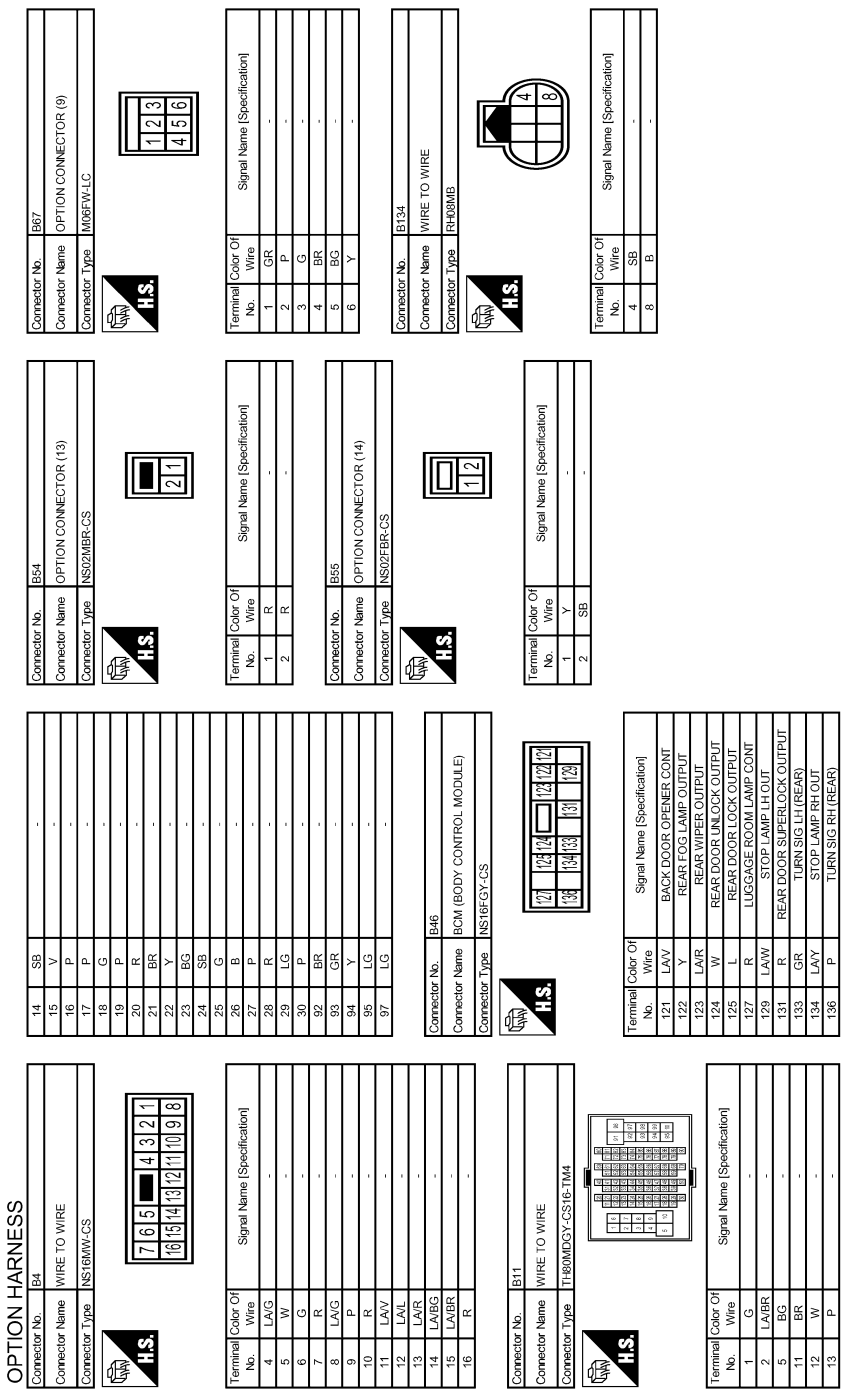
JRMWF4170GB

OPTION HARNESS

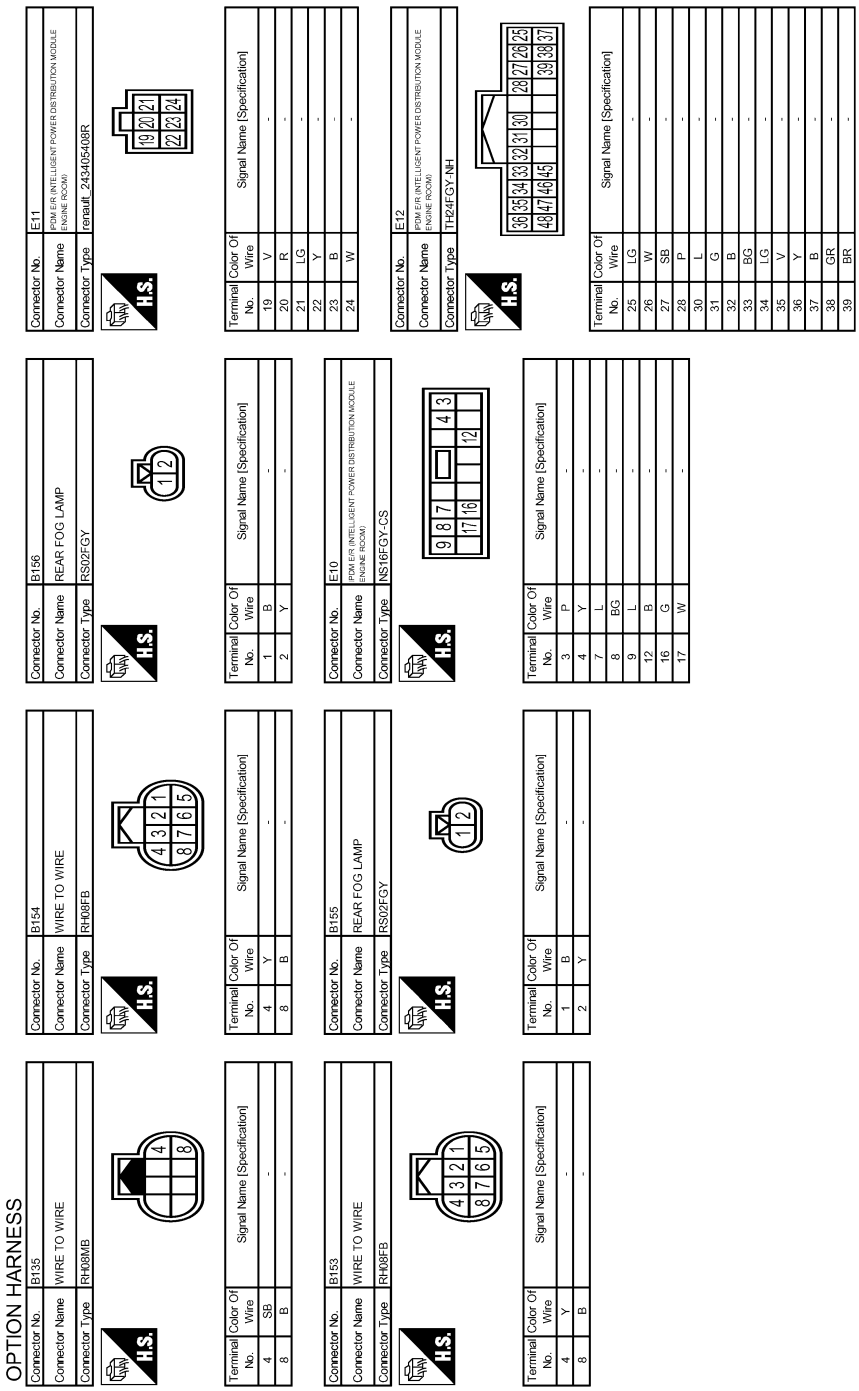
Wiring Diagram

INFOID:0000000010763709

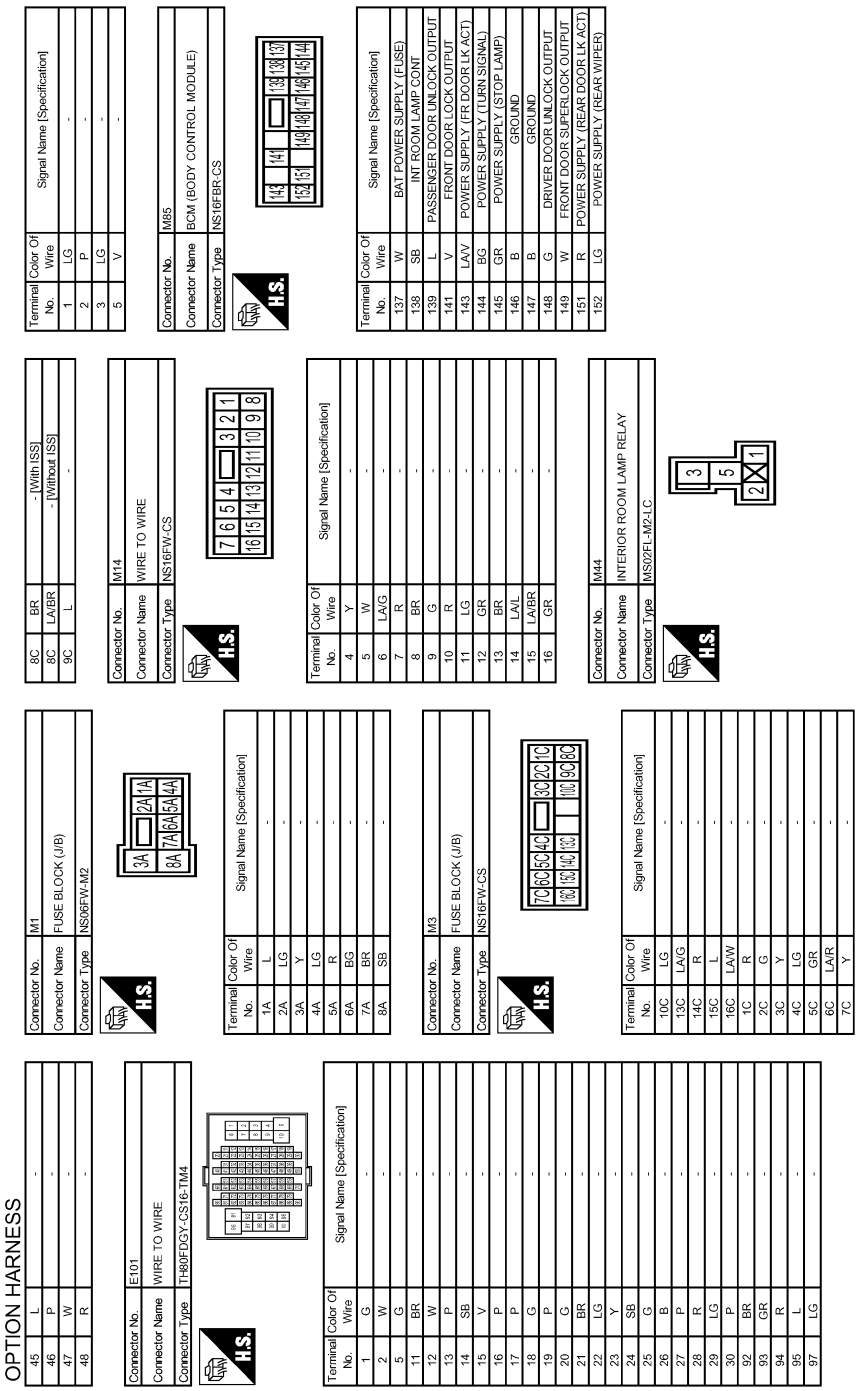




JRMWF4097GB



JRMWF4098GB



JRMWF4099GB

OPTION HARNESS

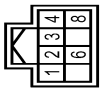
Connector No.	M87
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT POWER SUPPLY
42	LA/G	TURN SIG LH (SIDE)
43	LA/Y	TURN SIG RH (SIDE)
44	P	INTERIOR ROOM LAMP RELAY CONT
45	R	CAN-L
46	L	CAN-H
47	G	LIGHT & RAIN SENSOR
48	L	CAN-H
49	R	CAN-L
50	BG	DOOR LOCK SW
51	Y	HAZARD SW
56	P	DONGLE
57	L	CVT SHIFT SELECT (DETENT SW) PWR
60	R	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	LA/R	REAR WINDOW DEFOGGER RELAY CONT
65	BR	ACC RELAY CONT
67	Y	IGN RELAY (F/B) CONT OUTPUT
68	LA/W	BLOWER RELAY CONT
73	LG	COMBI SW INPUT 5
74	Y	COMBI SW OUTPUT 5
75	BG	SECURITY IND LAMP CONT
76	G	COMBI SW INPUT 3
77	GR	COMBI SW INPUT 4
78	V	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	SB	DOOR UNLOCK SW

Connector No.	M111
Connector Name	OPTION CONNECTOR (8)
Connector Type	TH08FW-NH

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	V	-
4	LA/G	-
6	BR	-
8	B	-

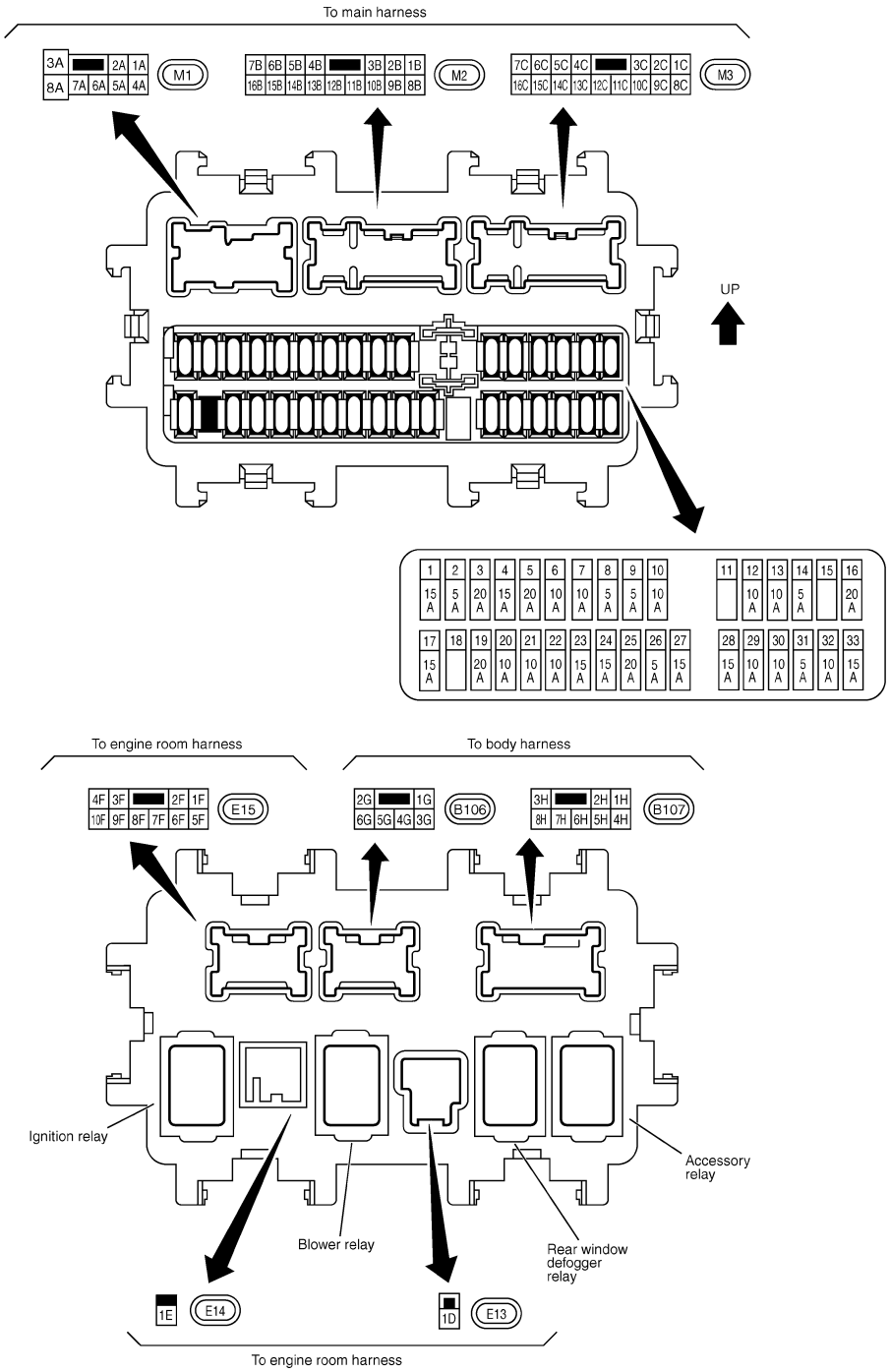
JRMWF4100GB

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:0000000010709210

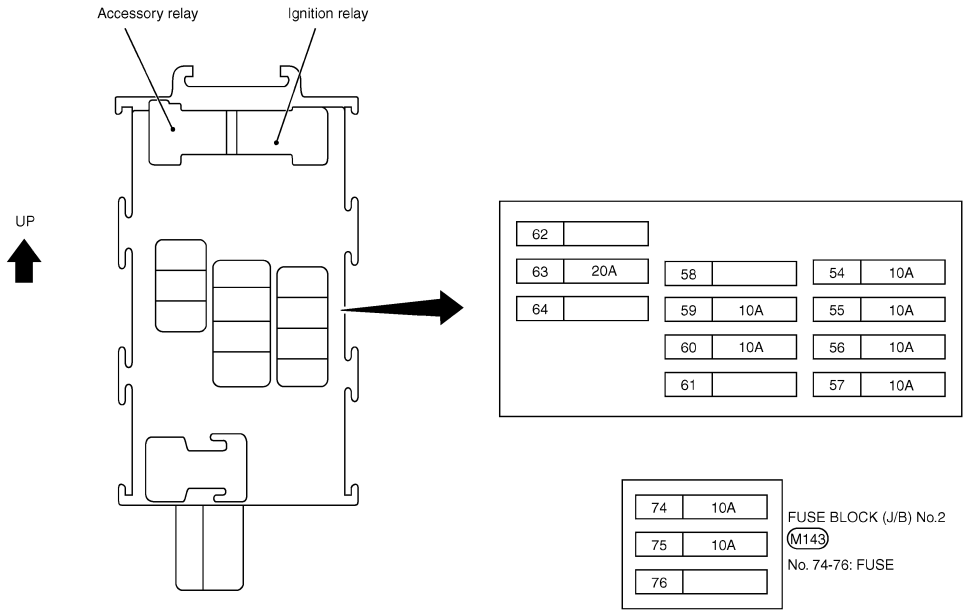
FUSE BLOCK-JUNCTION BOX (J/B)
Fuse, Connector and Terminal Arrangement



2014/03/17

JRMWF4171GB

FUSE BLOCK-JUNCTION BOX (J/B) IS Fuse, Connector and Terminal Arrangement



2014/03/17

JRMWF4172GB

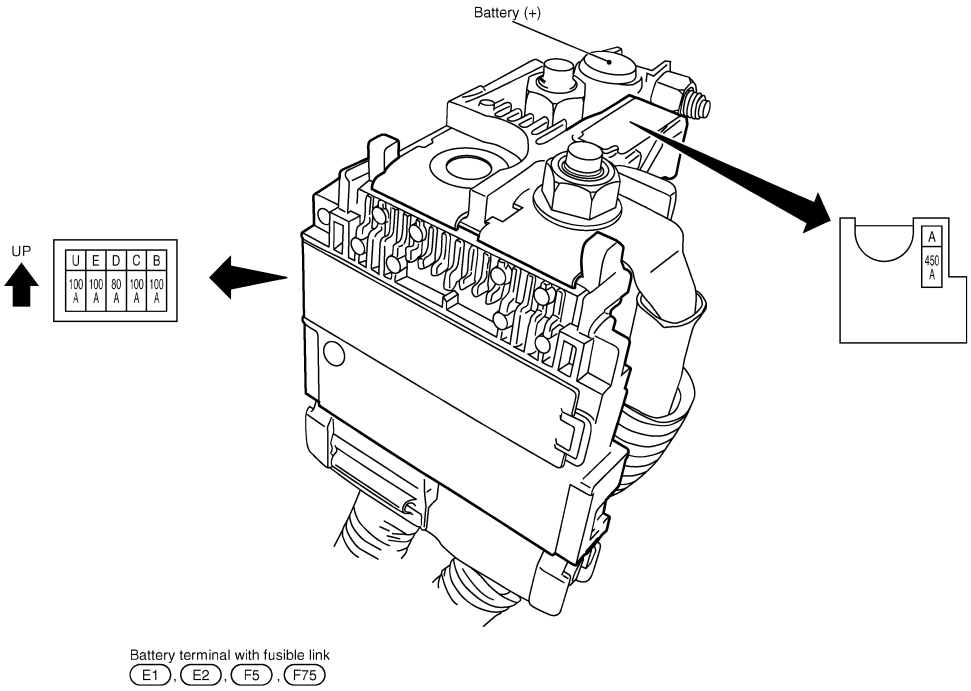
FUSE, FUSIBLE LINK AND RELAY BOX

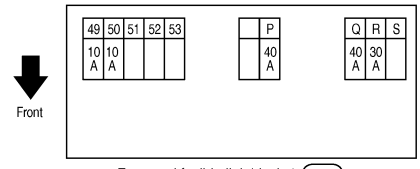
Fuse and Fusible Link Arrangement

INFOID:0000000010709211

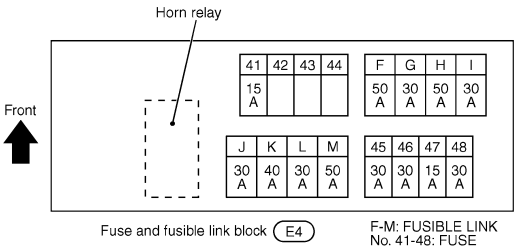
QR ENGINE

FUSE, FUSIBLE LINK AND RELAY BOX
Fuse and Fusible Link Arrangement (QR engine)





Fuse and fusible link block-1 (F116)
P-S: FUSIBLE LINK
No. 49-53: FUSE

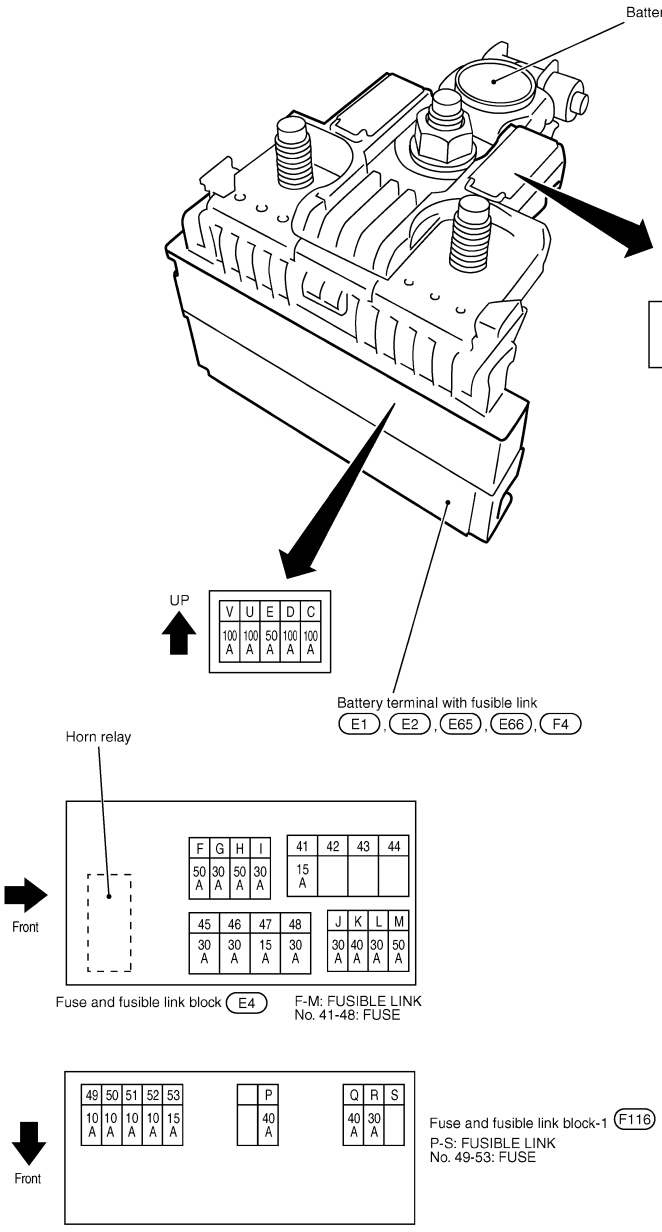


Fuse and fusible link block (E4)
F-M: FUSIBLE LINK
No. 41-48: FUSE

2014/03/17

JRMWF4173GB

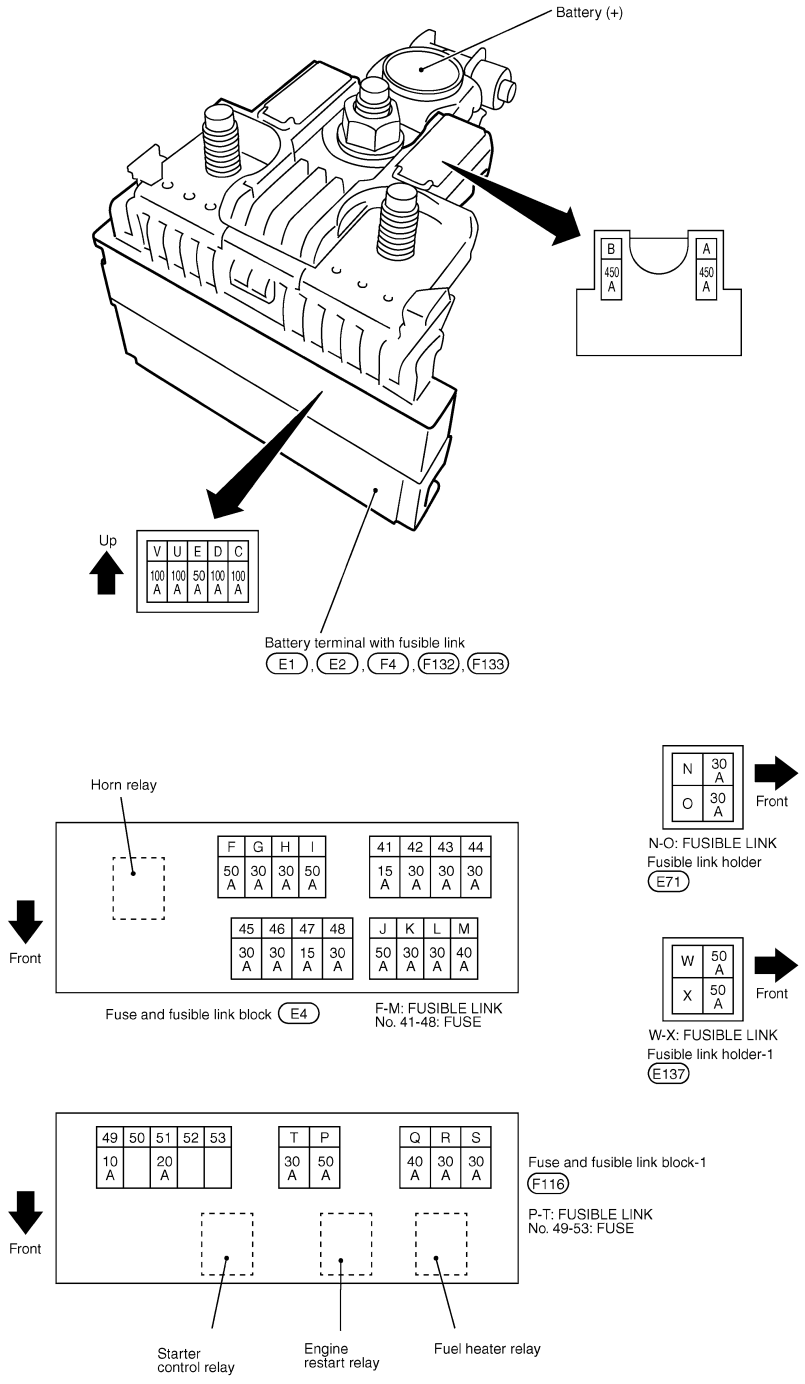
FUSE, FUSIBLE LINK AND RELAY BOX
Fuse and Fusible Link Arrangement (MR engine)



2014/03/17

JRMWF4174GB

FUSE, FUSIBLE LINK AND RELAY BOX Fuse and Fusible Link Arrangement (R9M engine)



2014/03/17

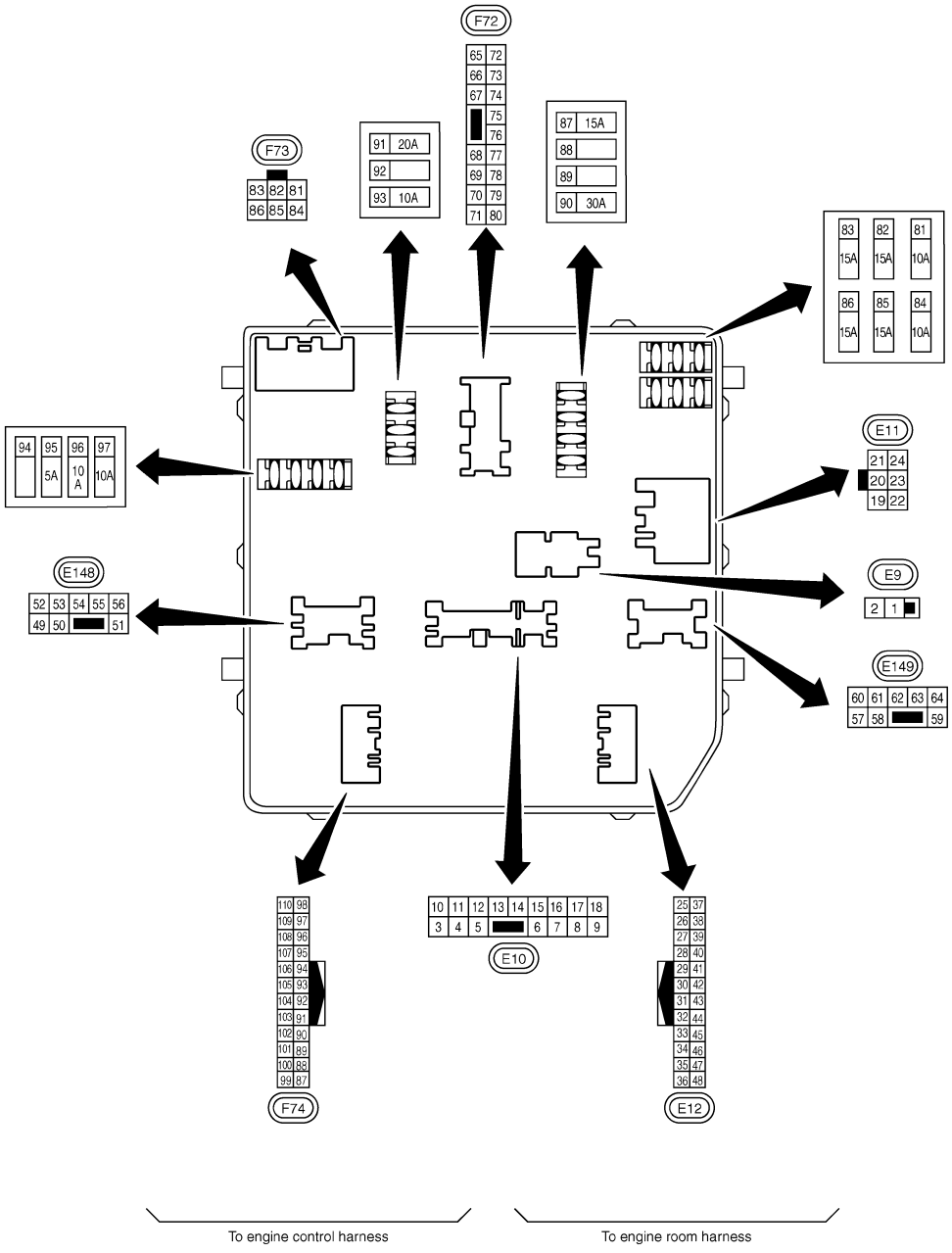
JRMWF4175GB

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

Fuse, Connector and Terminal Arrangement

INFOID:0000000010709212

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
(fuse, connector and terminal arrangement)



2014/03/17

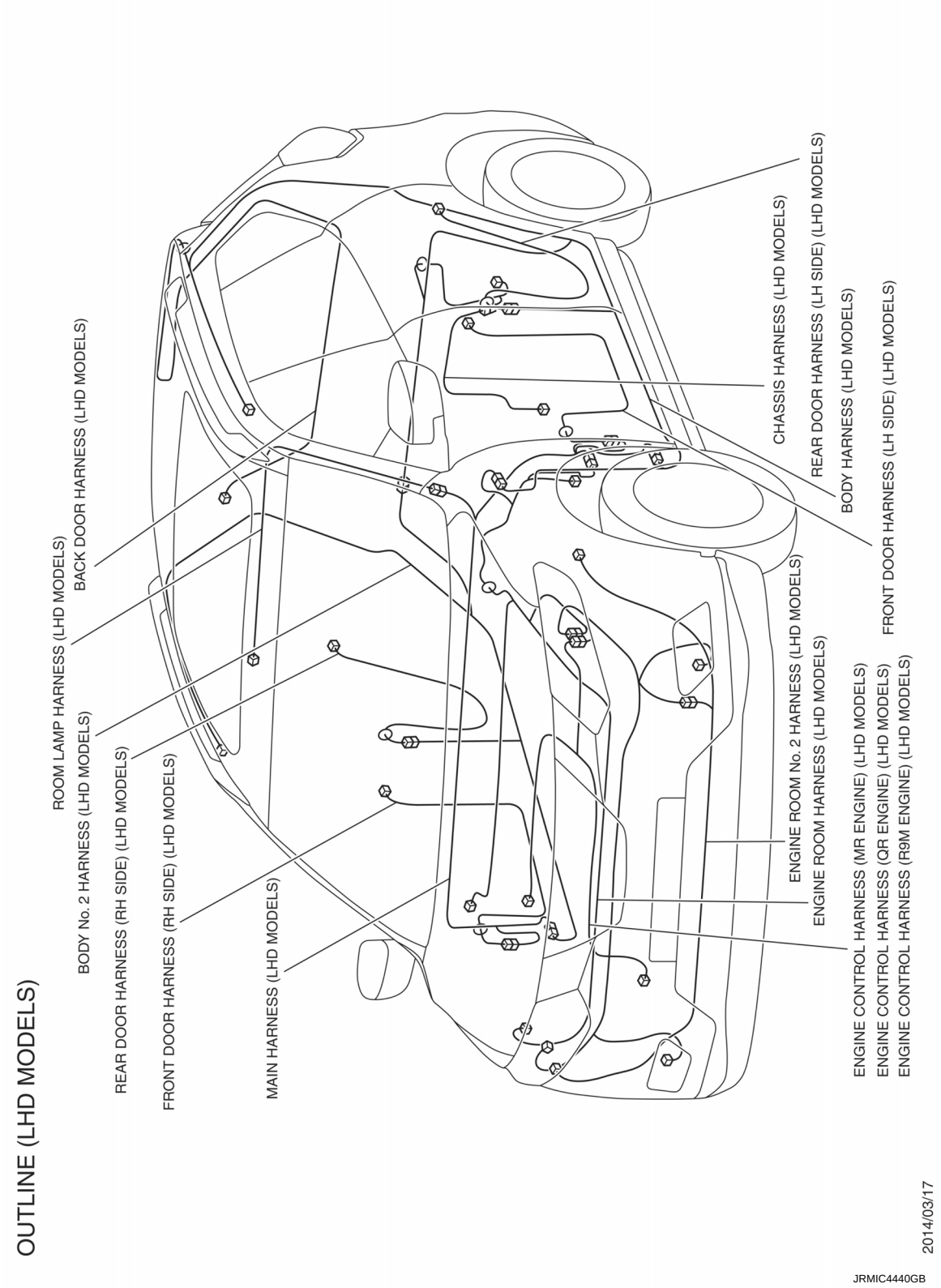
JRMWF4176GB

HARNESS LAYOUT

LHD

LHD : Outline

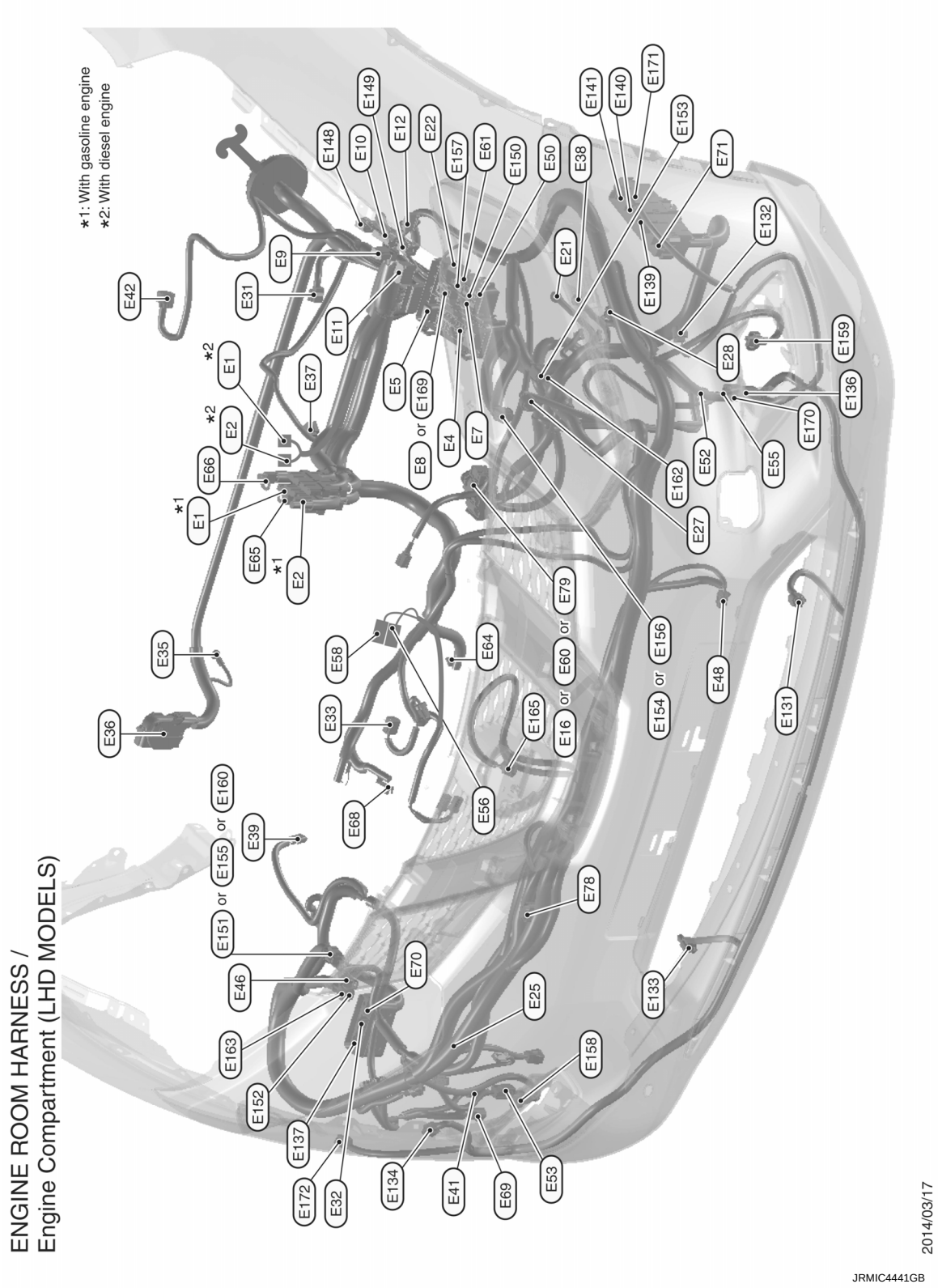
INFOID:0000000010709213

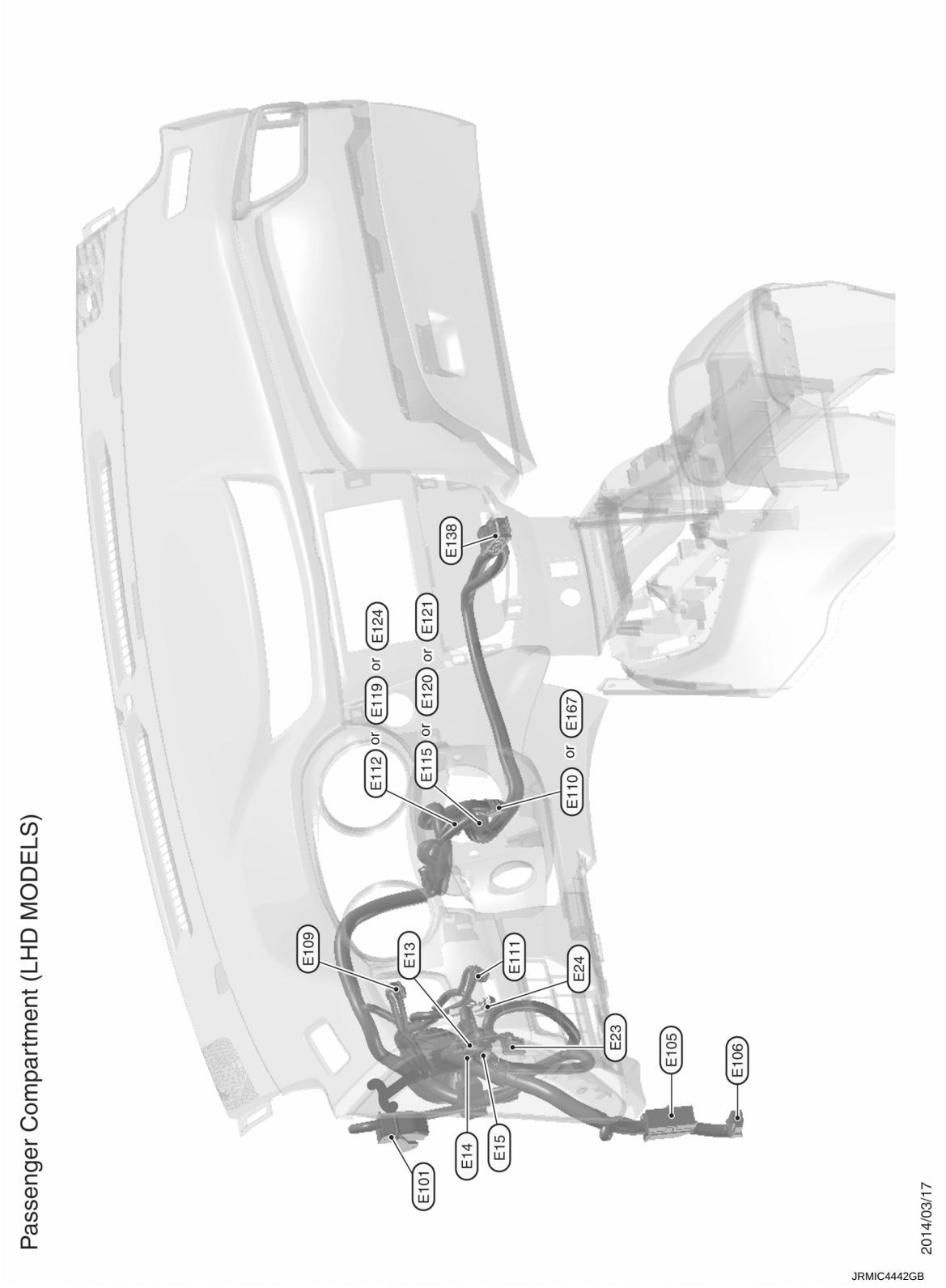


LHD : Engine Room Harness

INFOID:0000000010709214

ENGINE COMPARTMENT

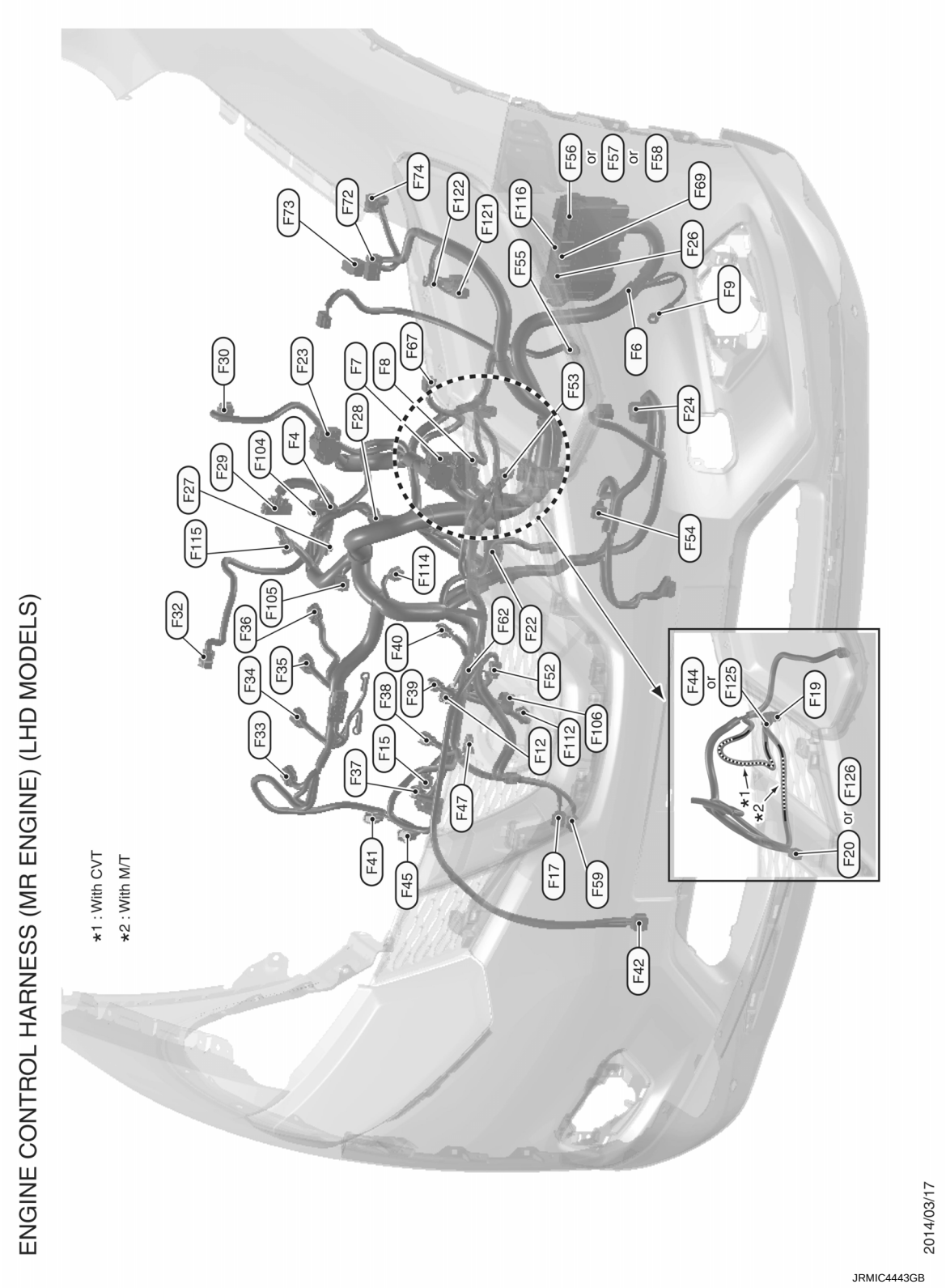



Passenger Compartment (LHD MODELS)
E138
E121
E124
E120
E119
E115
E112
E167
E110
E109
E13
E111
E24
E23
E105
E106
E14
E15
E101
2014/03/17
JRMIC4442GB

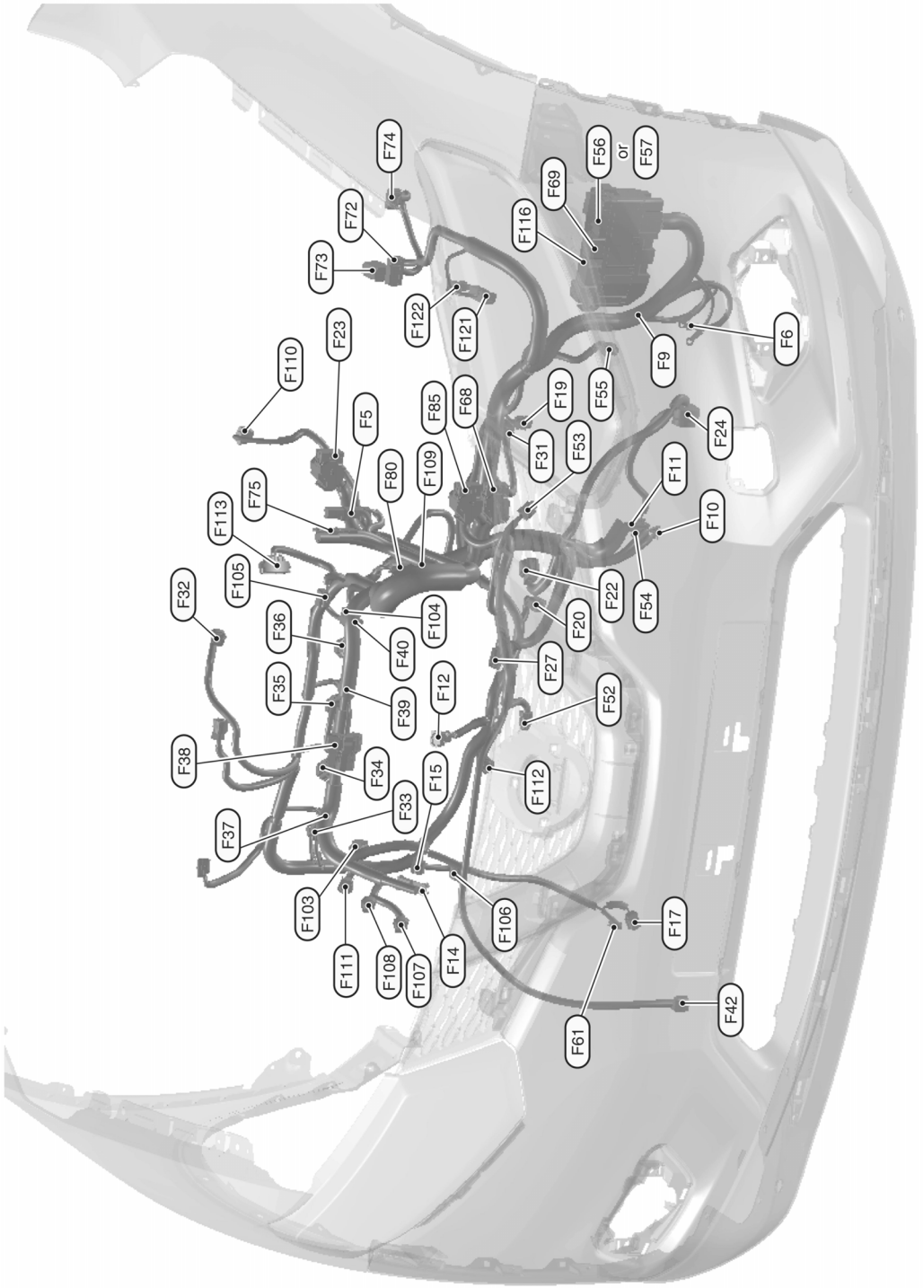
LHD : Engine Control Harness

INFOID:0000000010709215

MR ENGINE



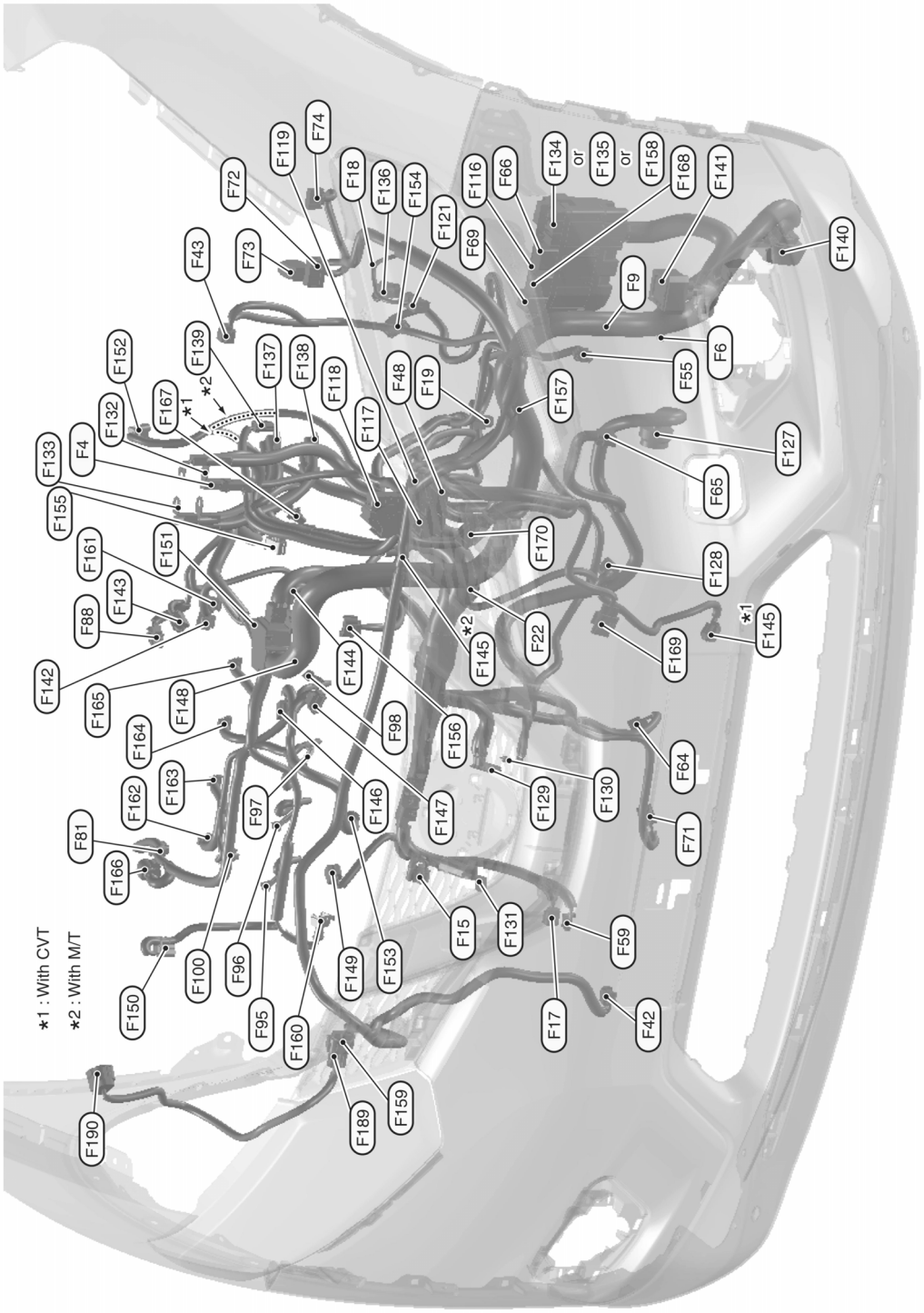
ENGINE CONTROL HARNESS (QR ENGINE) (LHD MODELS)



2014/03/17

JRMIC4444GB

ENGINE CONTROL HARNESS (R9M ENGINE) (LHD MODELS)

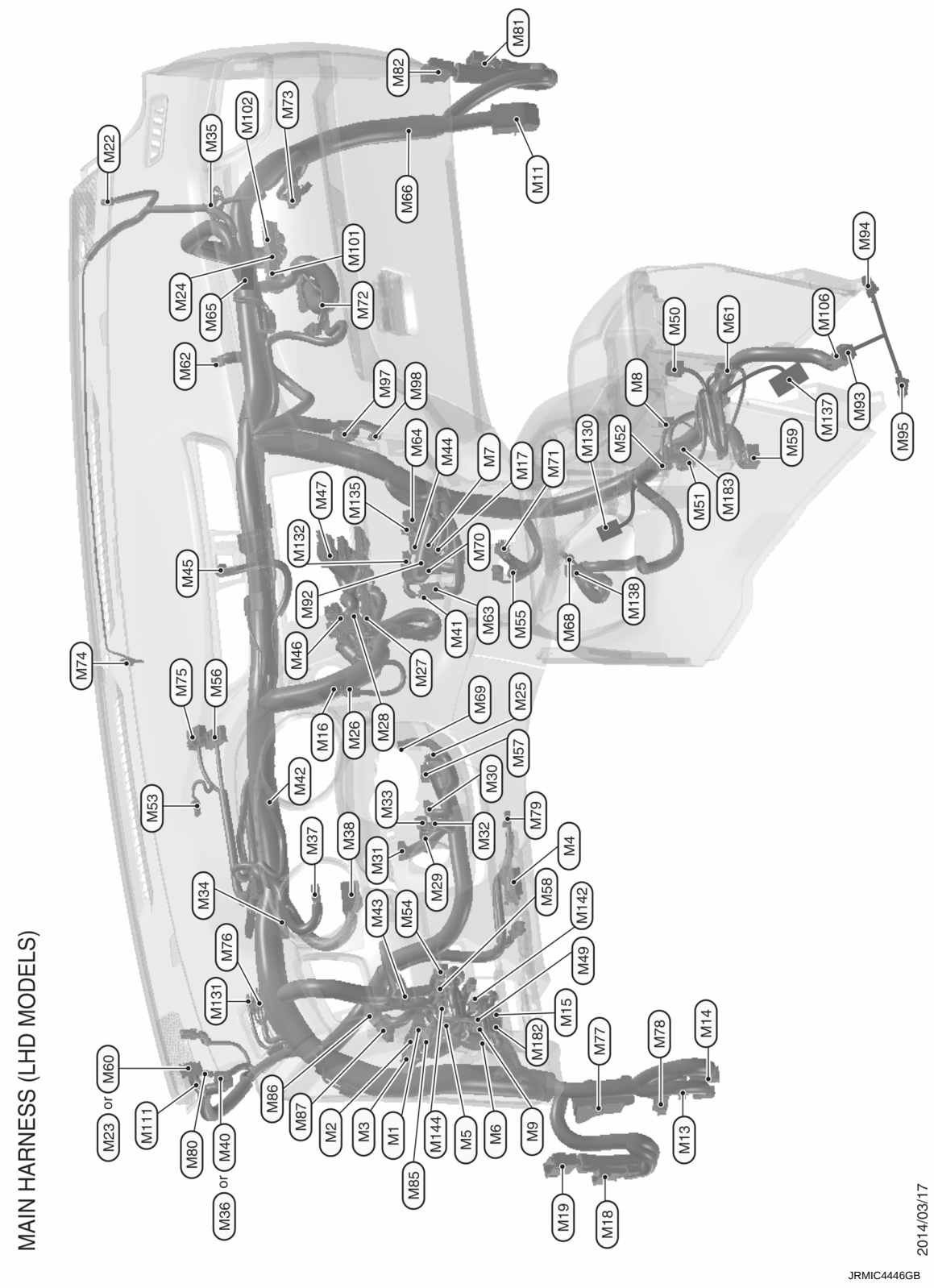


2014/03/17

JRMIC4445GB

LHD : Main Harness

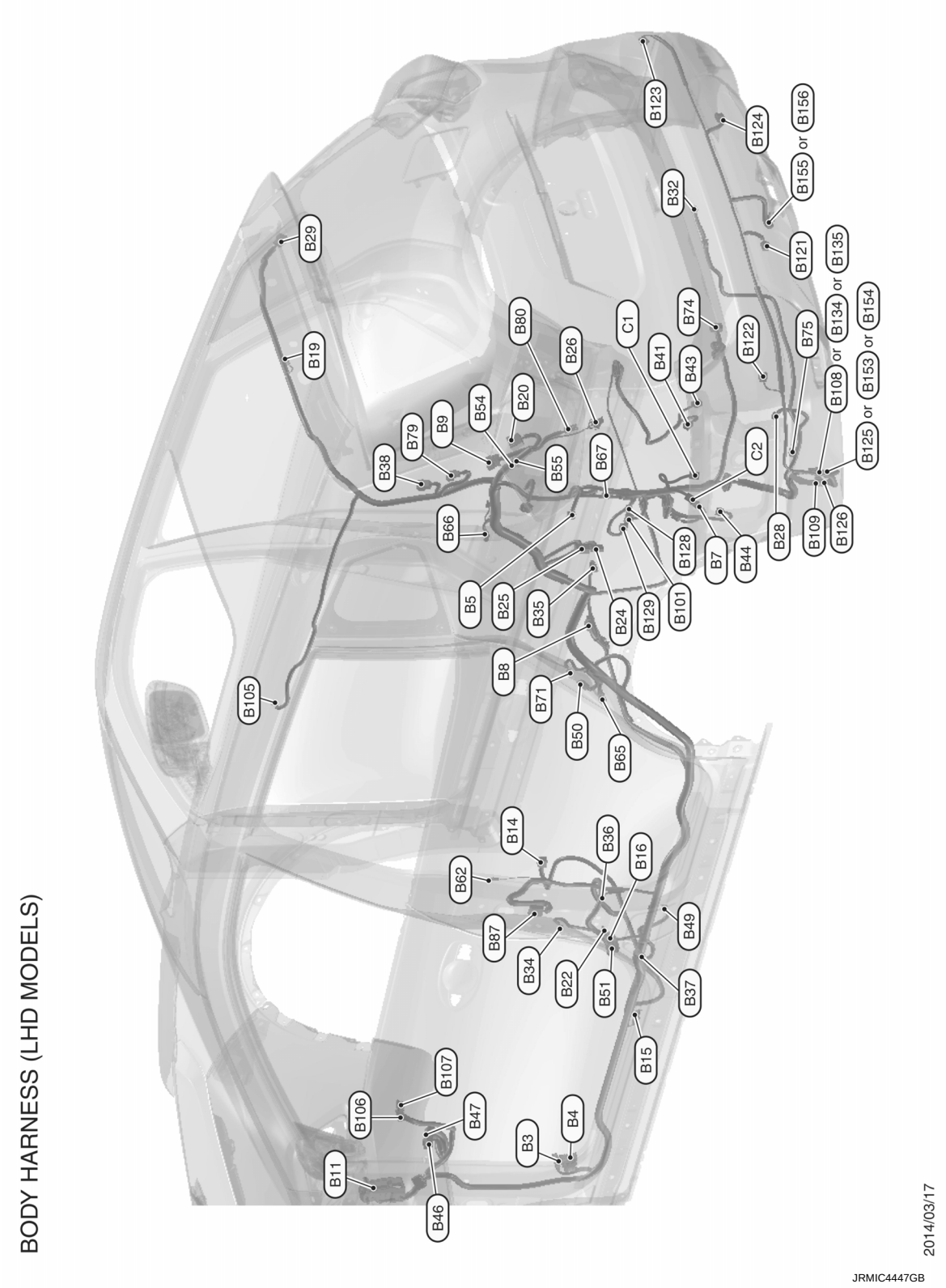
INFOID:0000000010709216

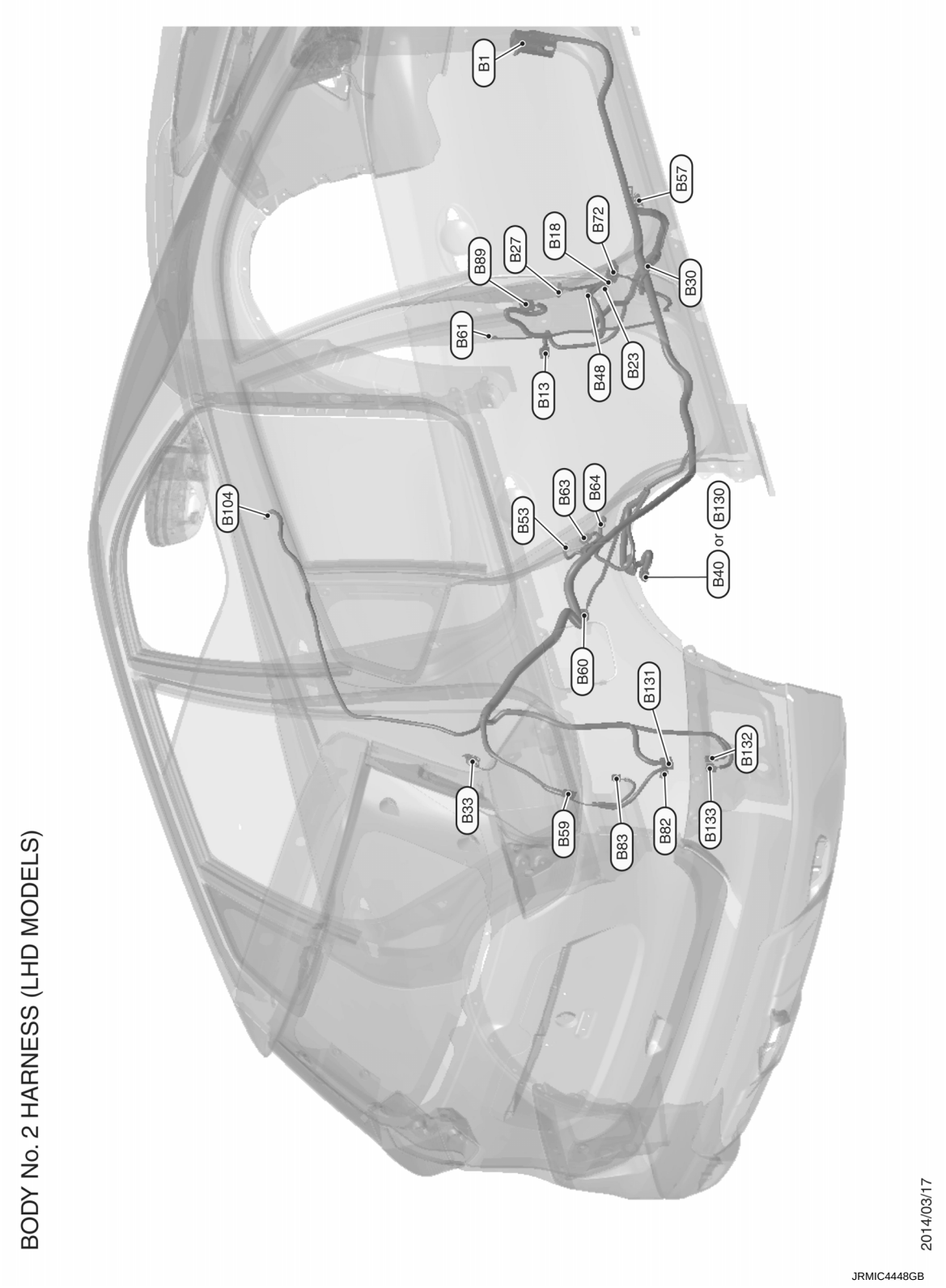


LHD : Body Harness

INFOID:0000000010709217

BODY HARNESS

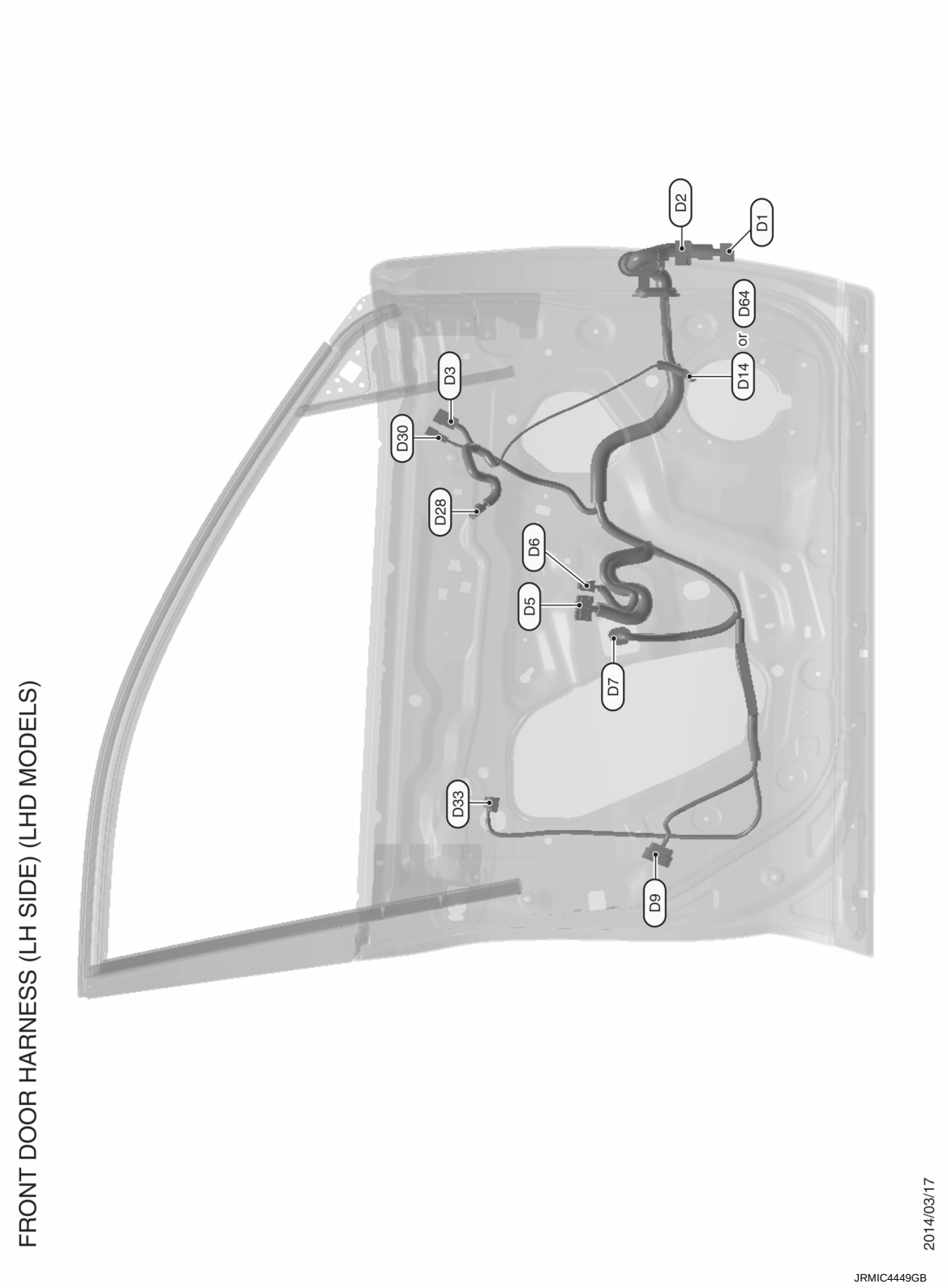



B1
B57
B72
B18
B27
B89
B30
B61
B48
B23
B13
B104
B63
B64
B53
B130
or
B40
B60
B131
B132
B33
B59
B83
B82
B133
BODY No. 2 HARNESS (LHD MODELS)
2014/03/17
JRMIC4448GB

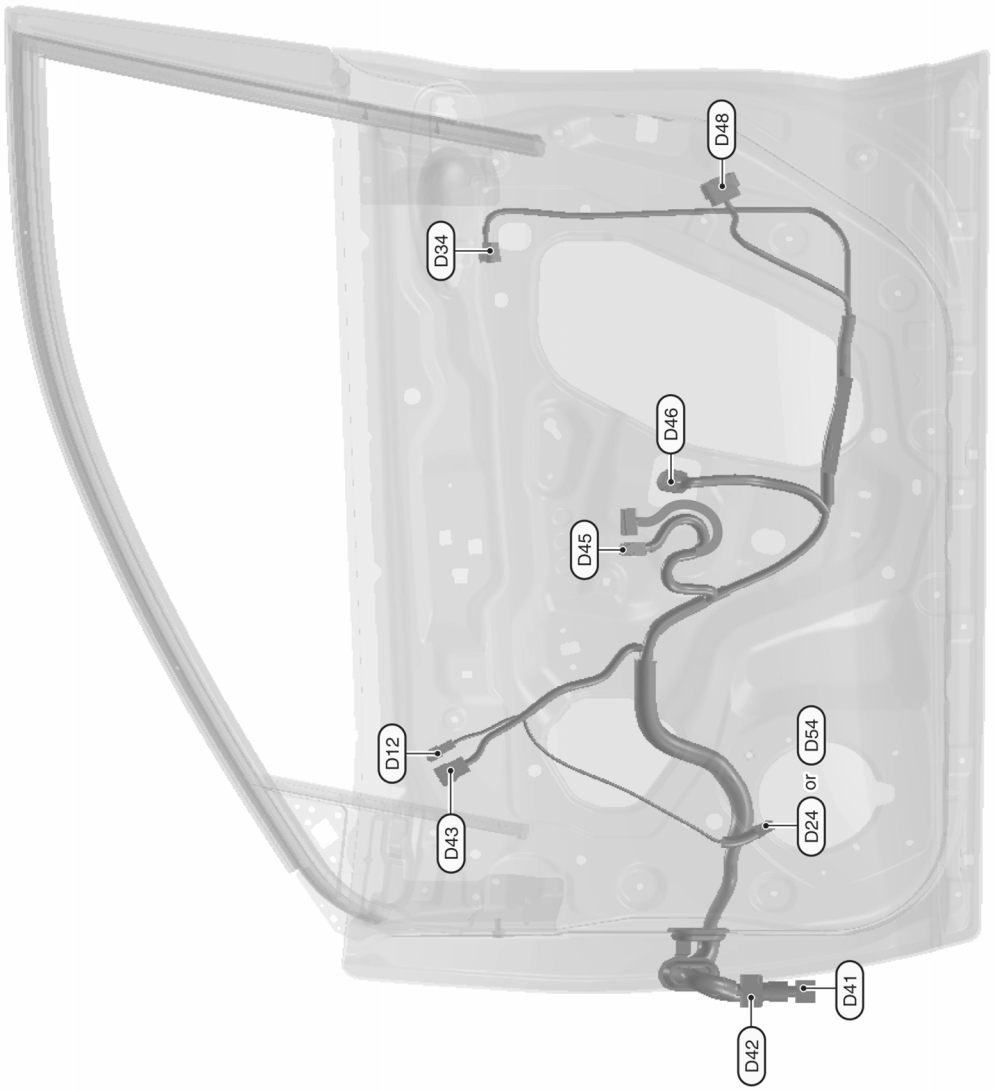
LHD : Door Harness

INFOID:0000000010709218

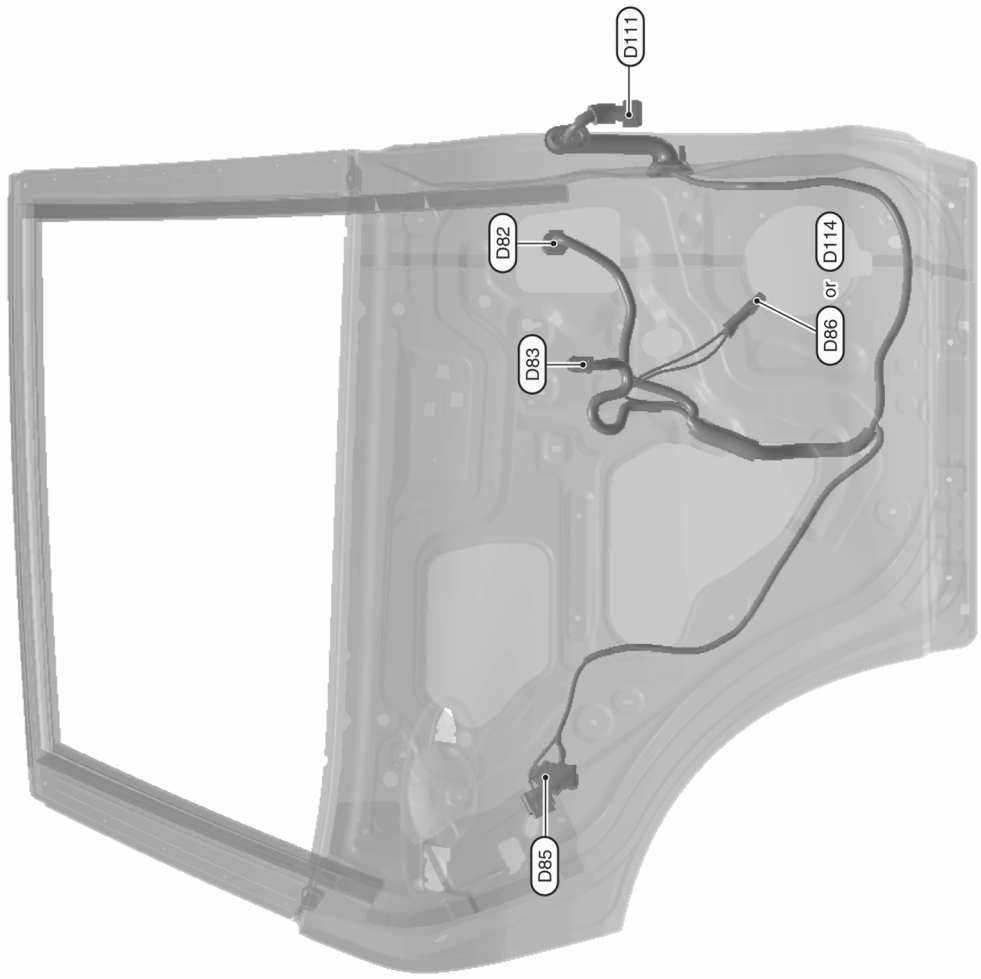
FRONT DOOR HARNESS (LH SIDE)



FRONT DOOR HARNESS (RH SIDE) (LHD MODELS)



REAR DOOR HARNESS (LH SIDE) (LHD MODELS)

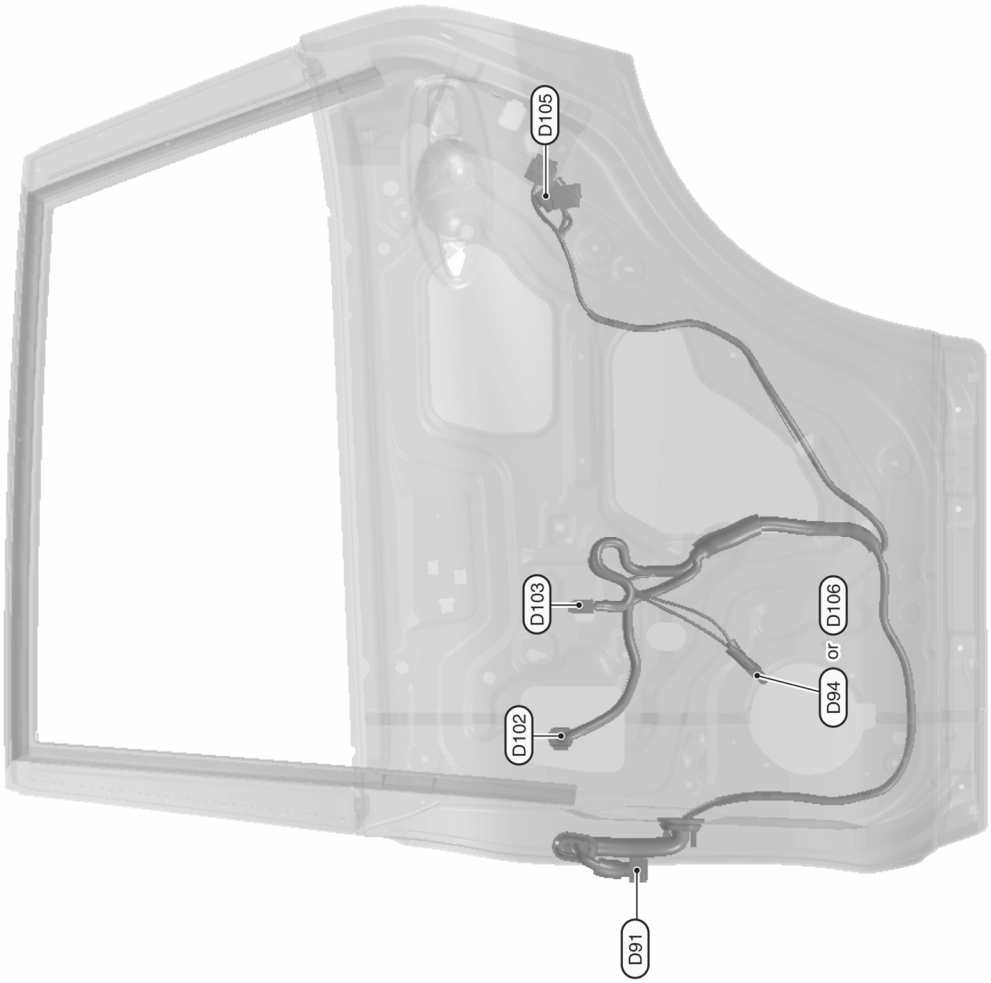


2014/03/17

JRMIC4451GB

REAR DOOR HARNESS (RH SIDE)

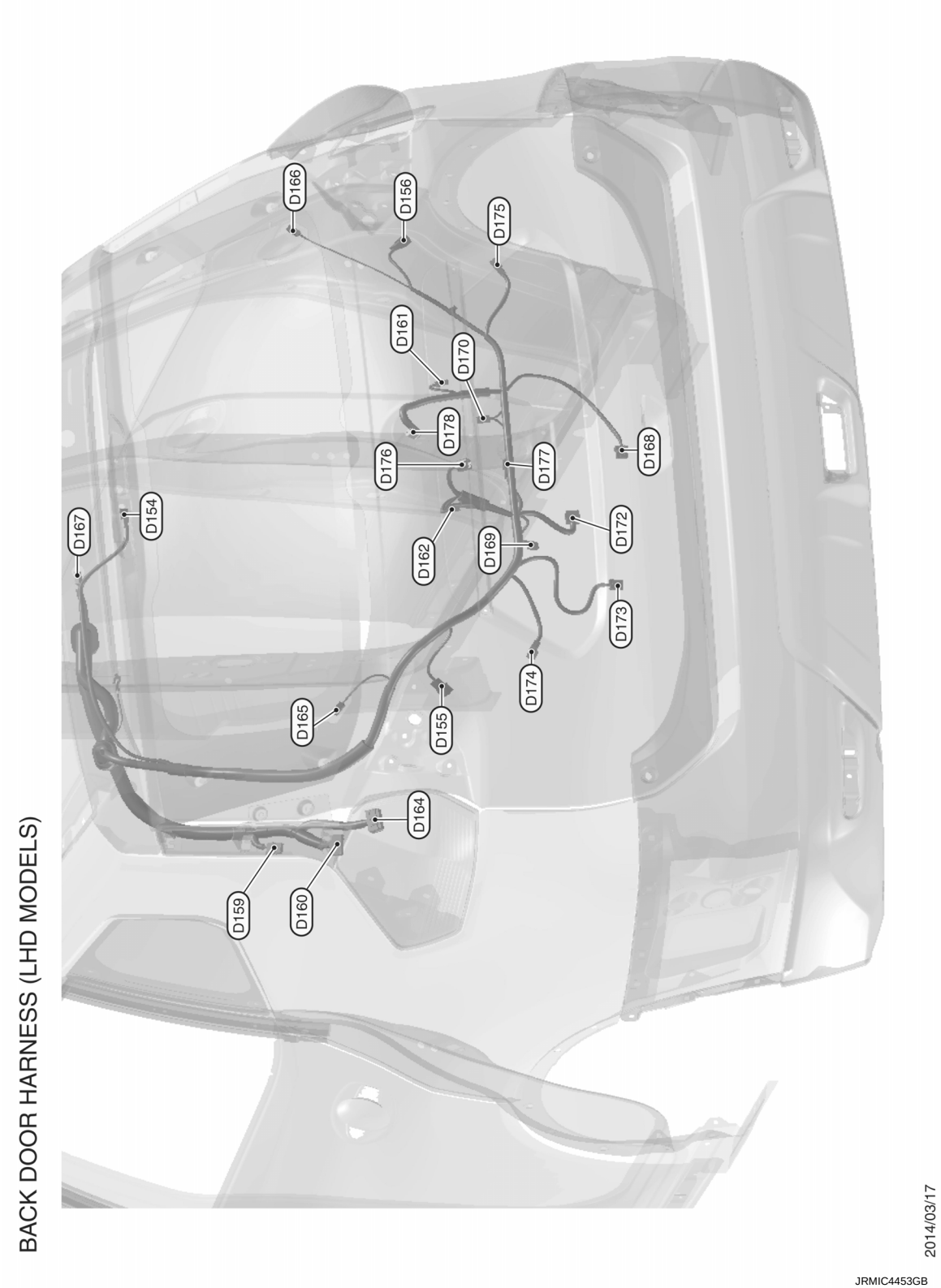
REAR DOOR HARNESS (RH SIDE) (LHD MODELS)



2014/03/17

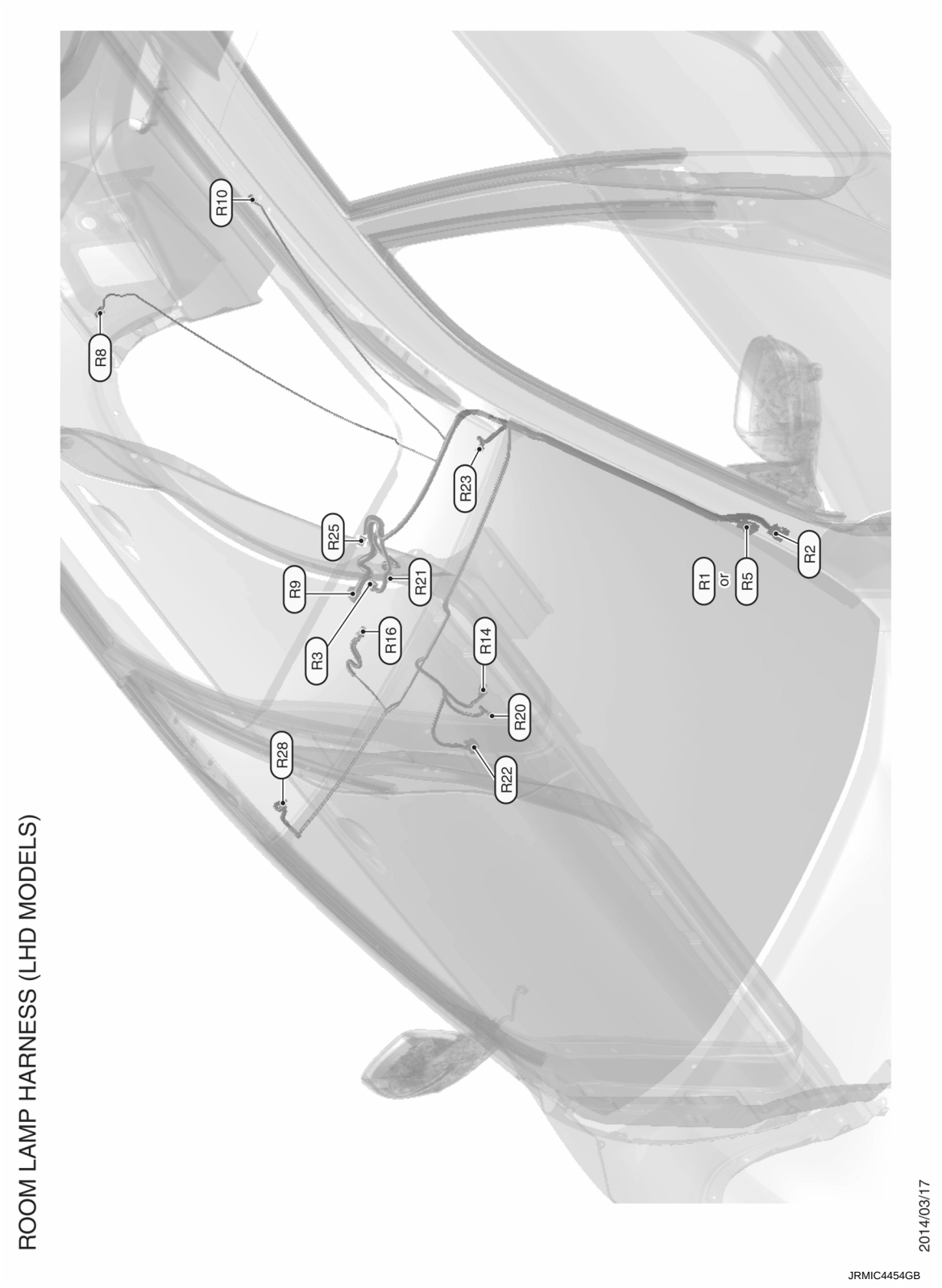
JRMIC4452GB

BACK DOOR HARNESS (LHD MODELS)



LHD : Room Lamp Harness

INFOID:0000000010709219

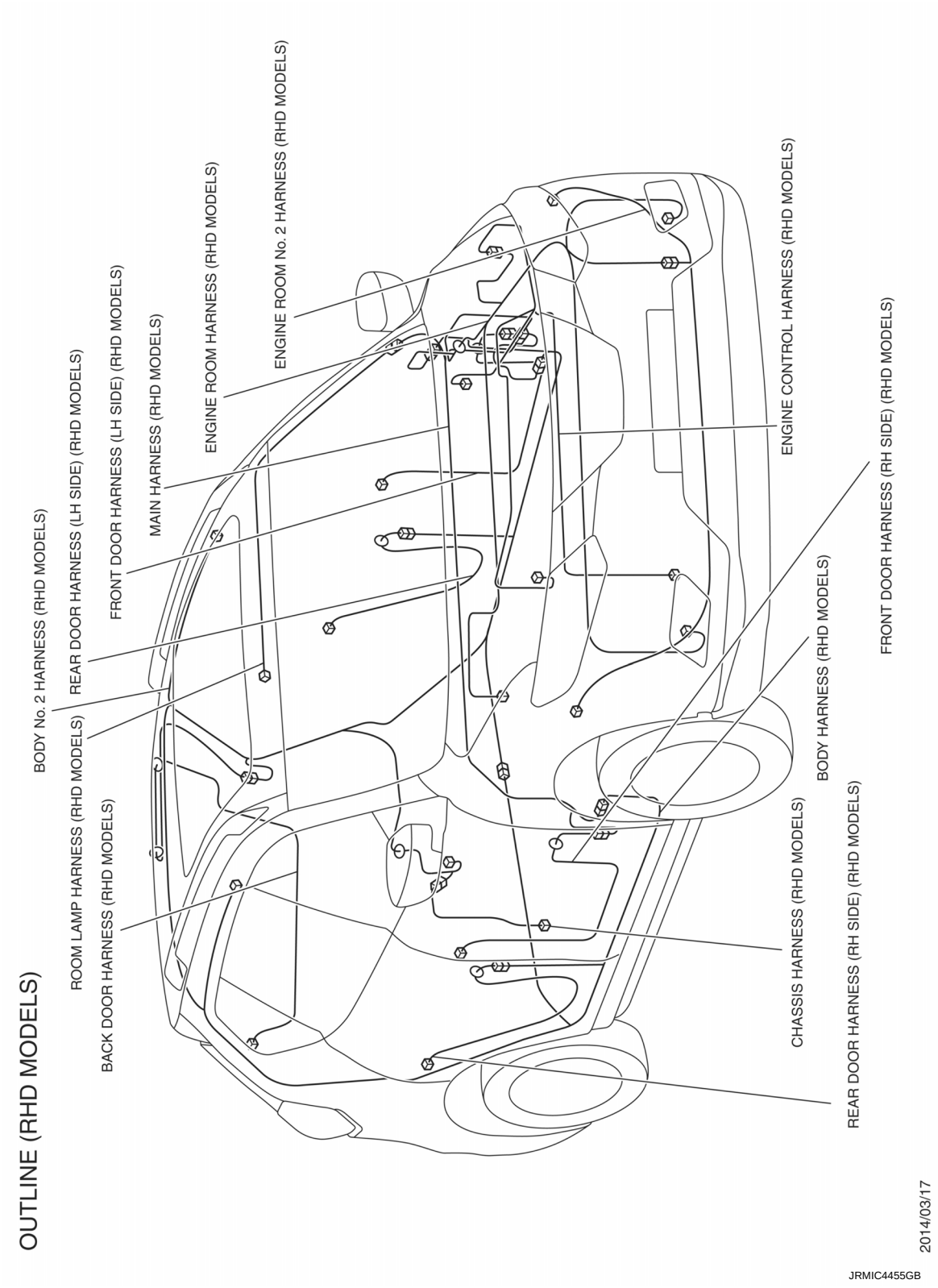


RHD

RHD : Outline

INFOID:0000000010709220

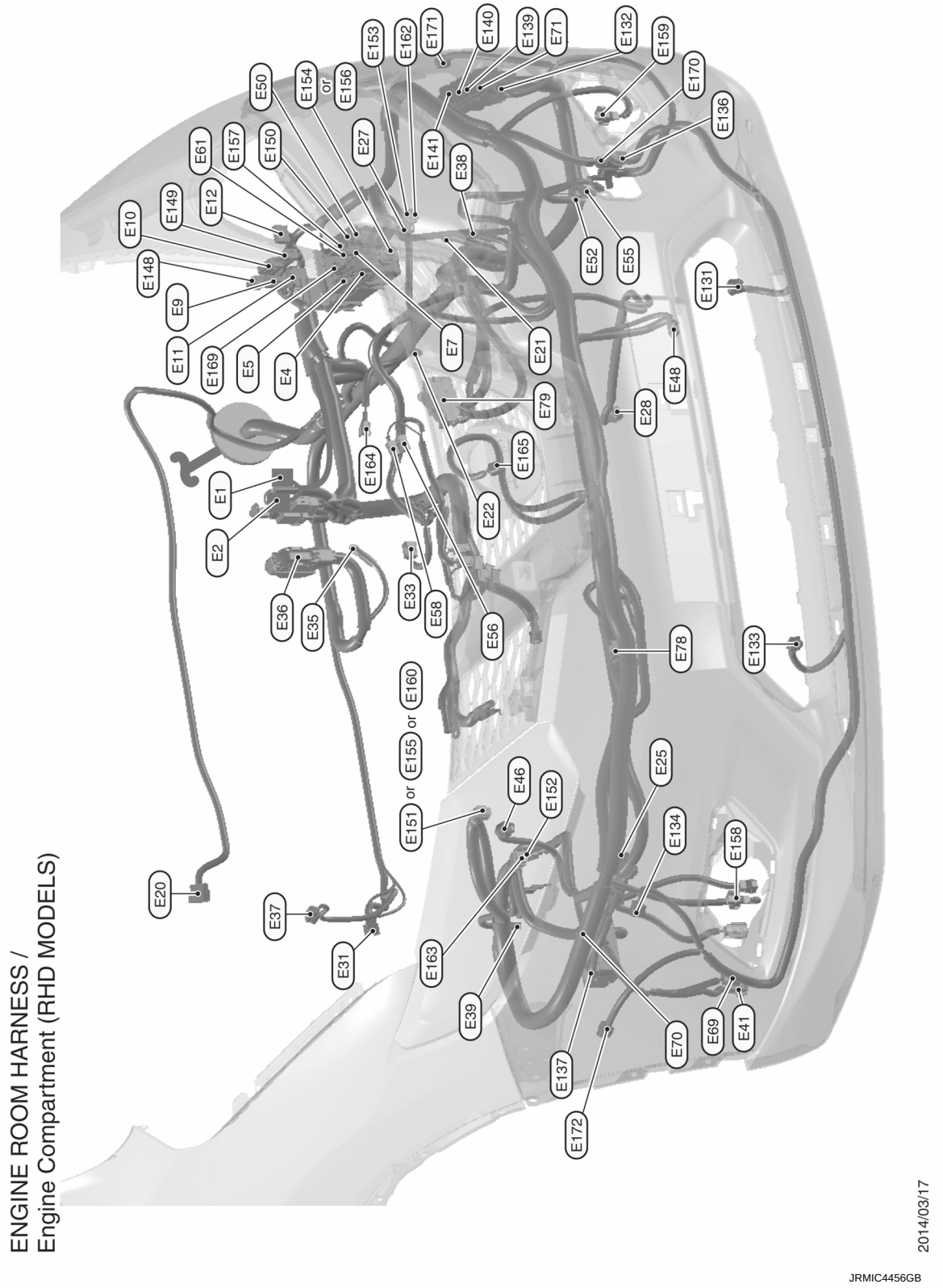
OUTLINE (RHD MODELS)

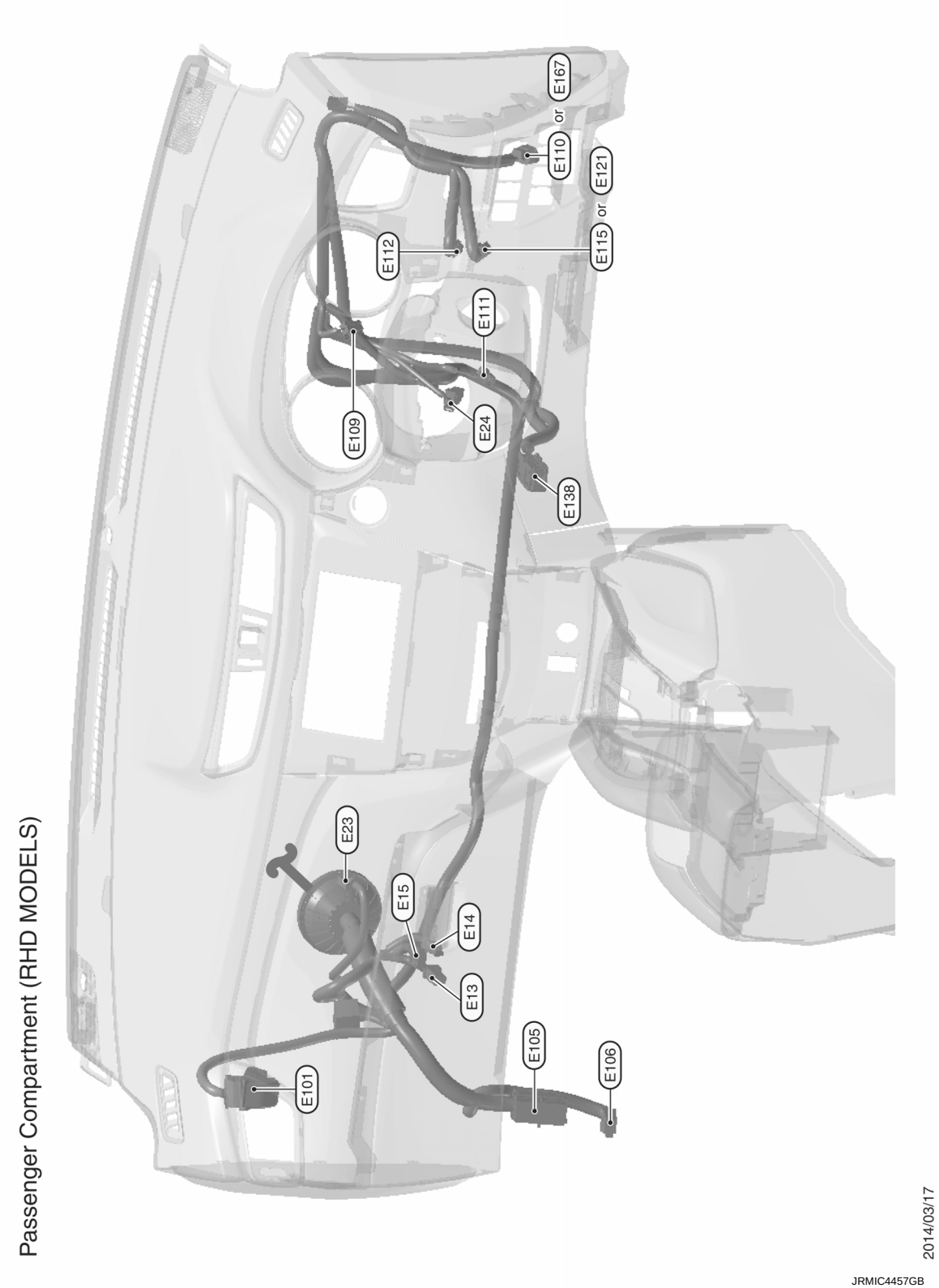


RHD : Engine Room Harness

INFOID:0000000010709221

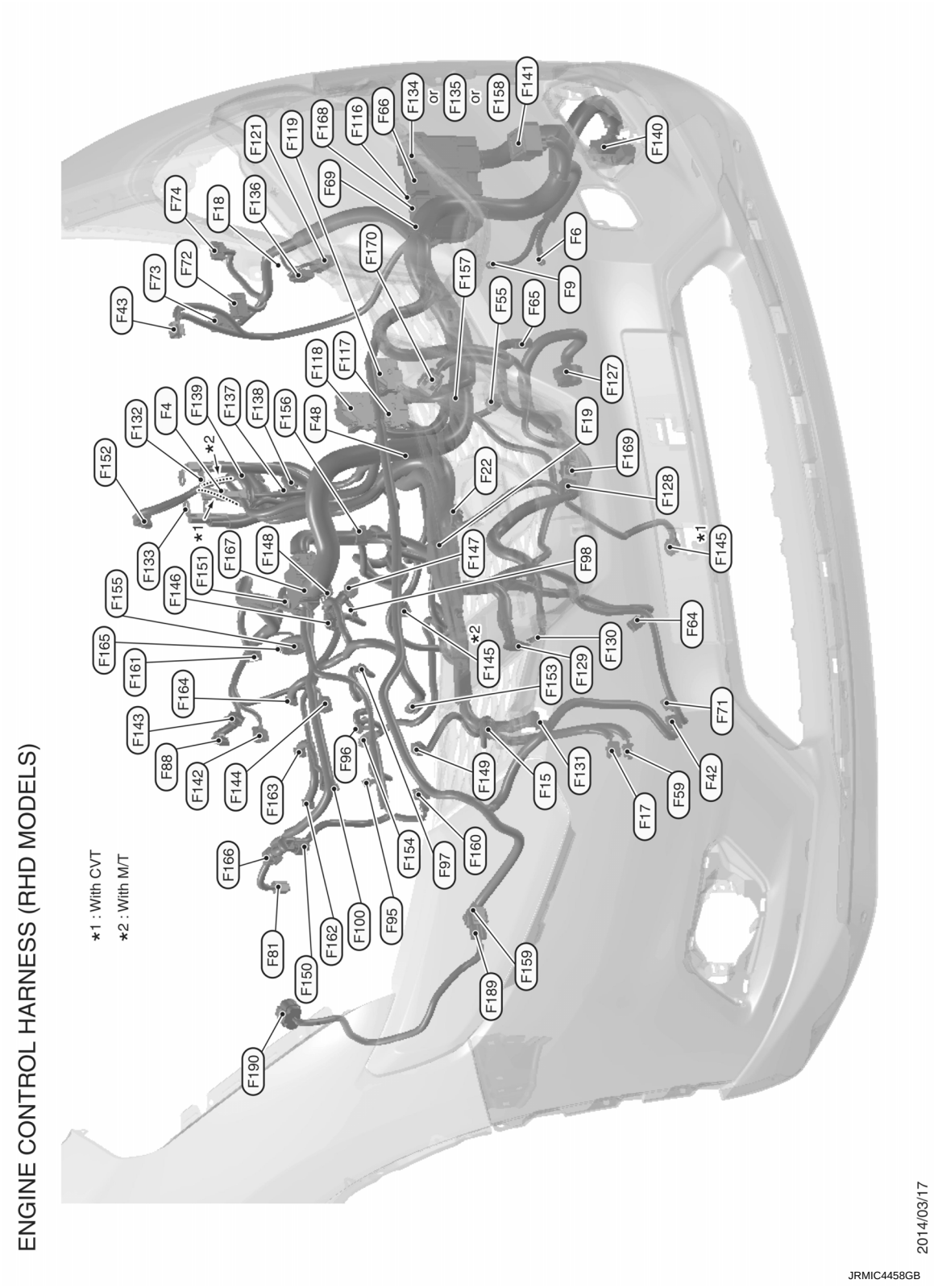
ENGINE COMPARTMENT




Passenger Compartment (RHD MODELS)
E167
or
E110
E121
or
E115
E112
E111
E109
E24
E138
E23
E15
E14
E13
E105
E106
E101
2014/03/17
JRMIC4457GB

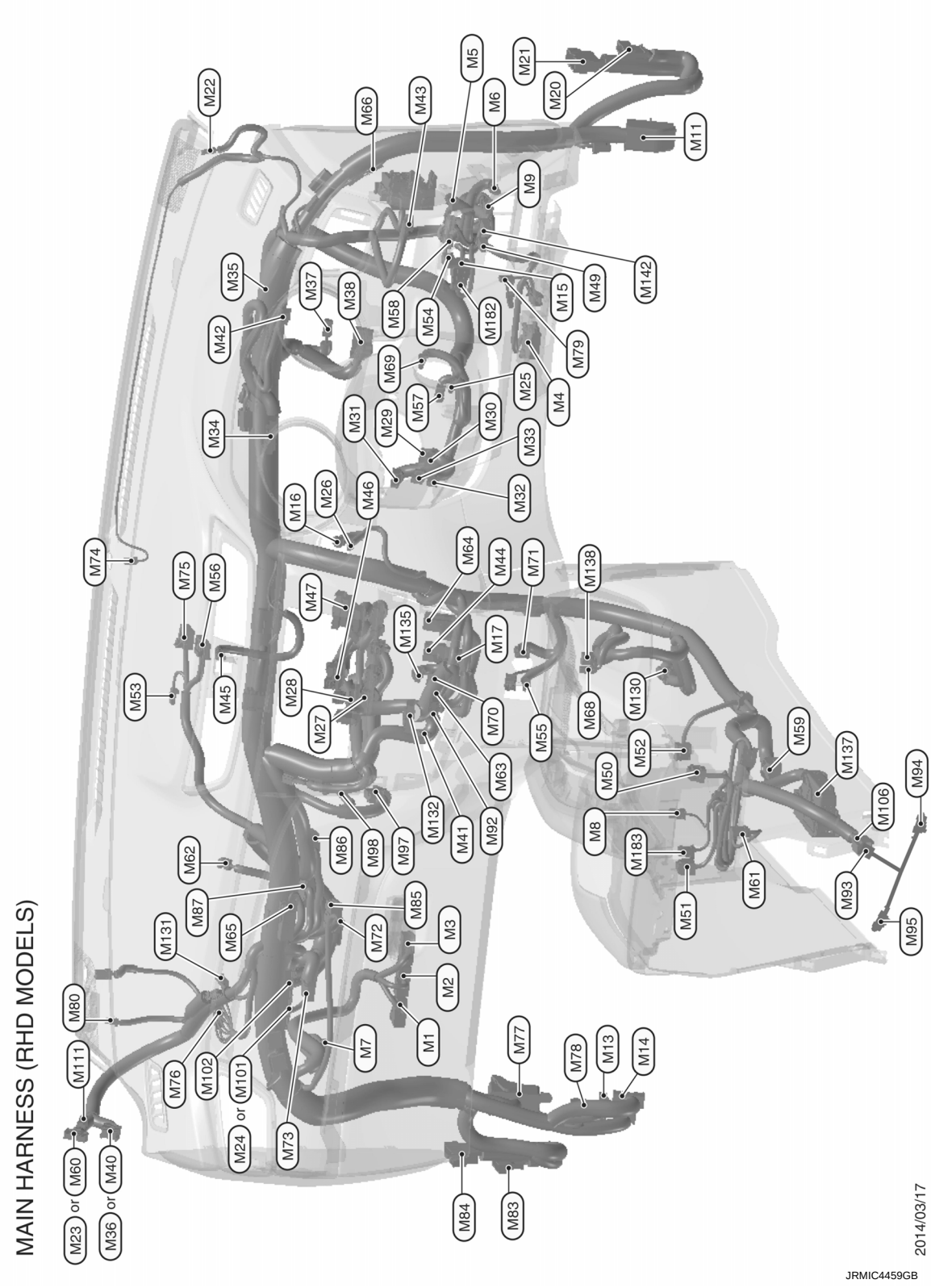
RHD : Engine Control Harness

INFOID:0000000010709222



RHD : Main Harness

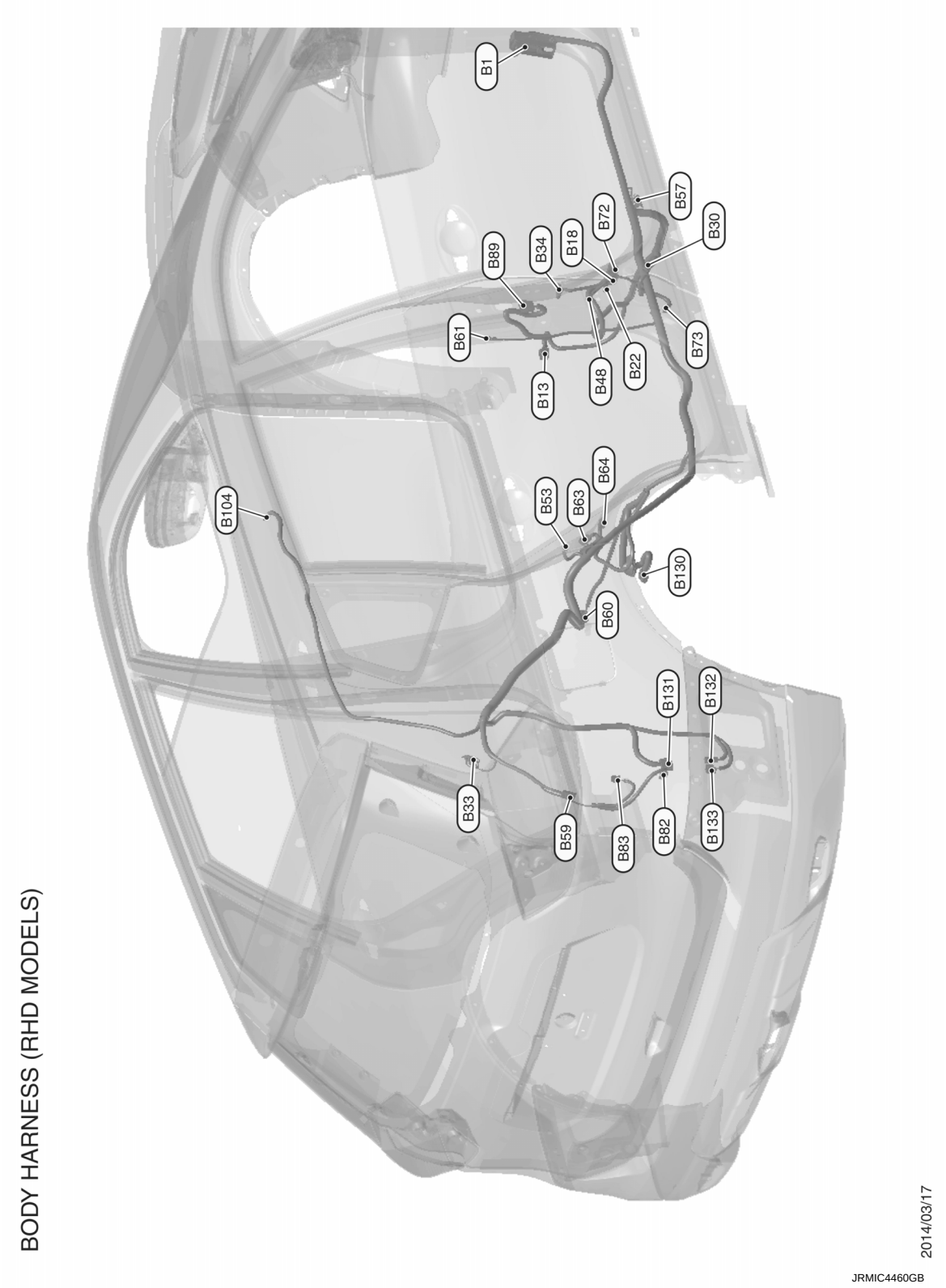
INFOID:0000000010709223

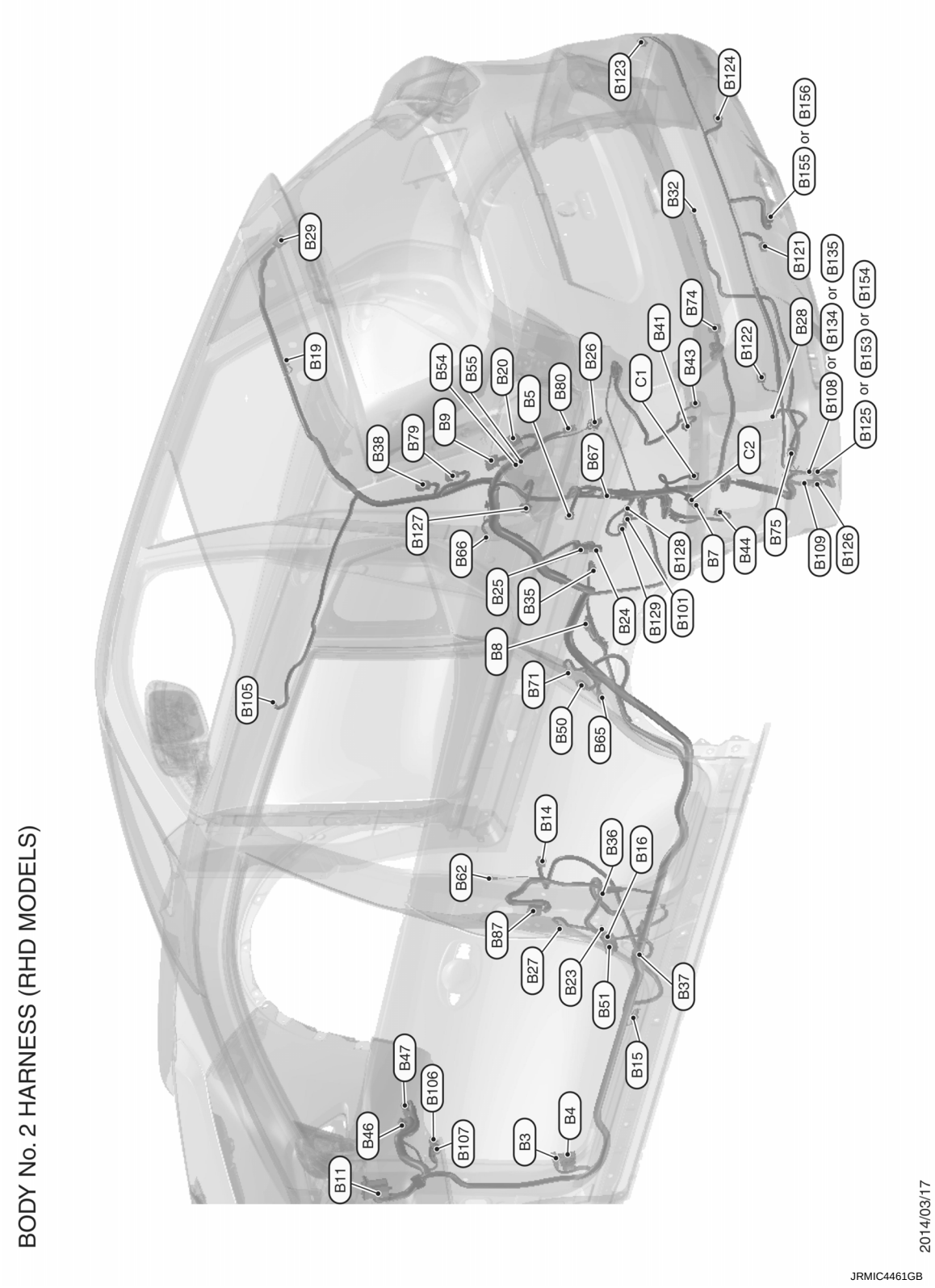


RHD : Body Harness

INFOID:0000000010709224

BODY HARNESS

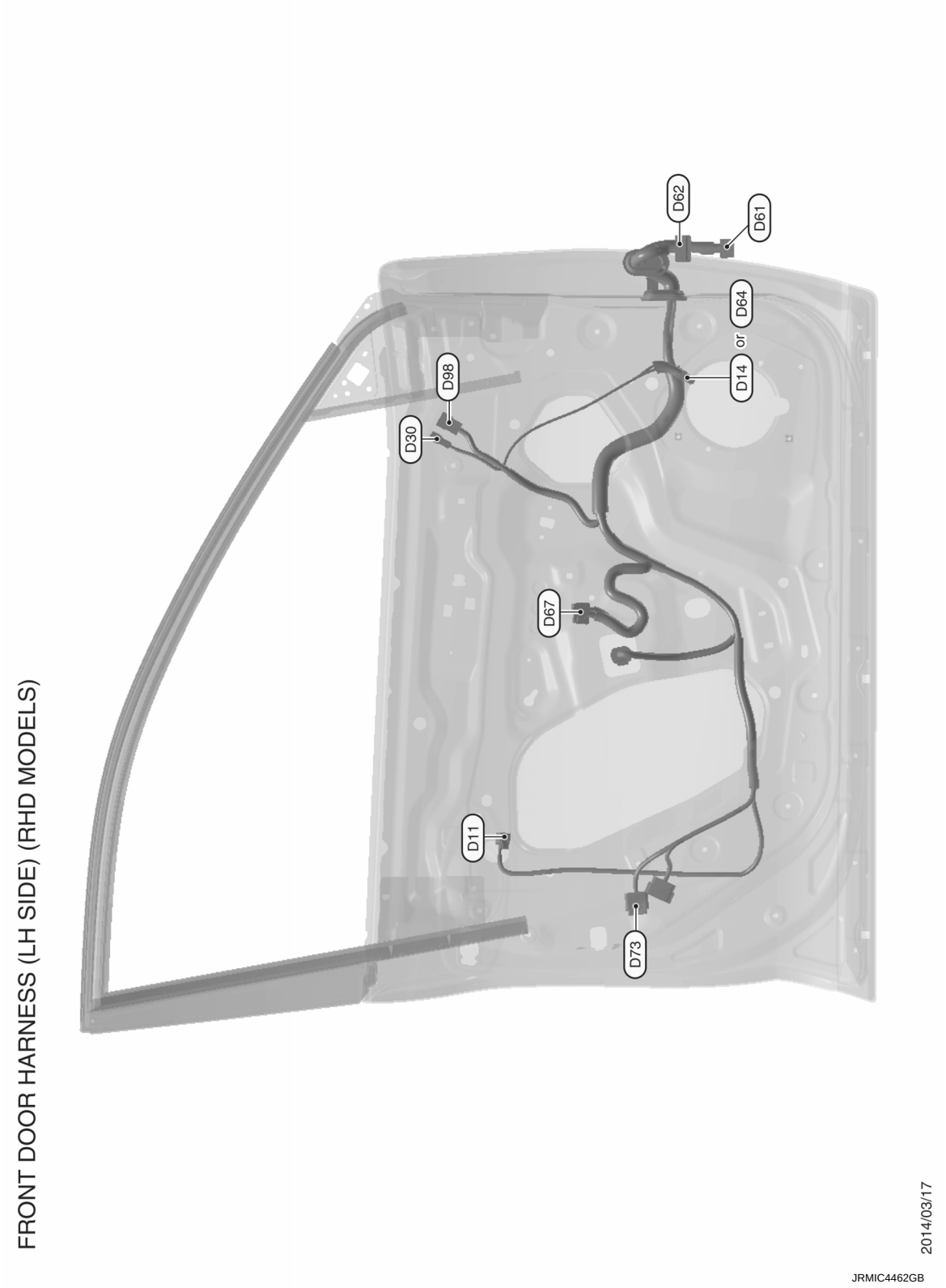



BODY No. 2 HARNESS (RHD MODELS)
B123
B124
B156
B155
B32
B29
B121
B135
B134
B154
B153
B74
B41
B28
B19
B122
B108
B125
B54
B55
B20
B5
B80
B26
C1
B43
B38
B79
B9
B67
C2
B127
B66
B128
B7
B44
B75
B109
B126
B25
B35
B24
B129
B101
B8
B71
B105
B50
B65
B14
B36
B16
B62
B87
B27
B23
B51
B37
B15
B47
B106
B46
B107
B3
B4
B11
2014/03/17
JRMIC4461GB

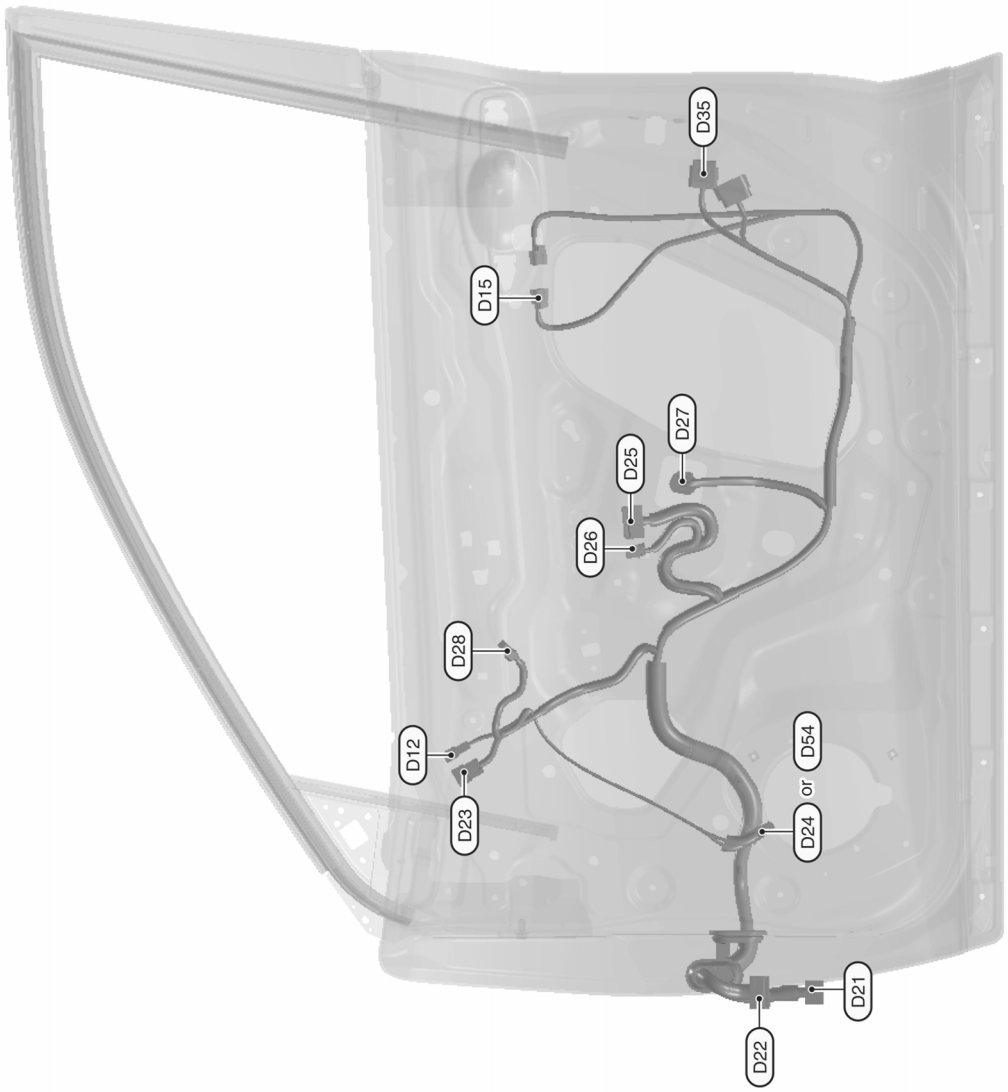
RHD : Door Harness

INFOID:0000000010709225

FRONT DOOR HARNESS (LH SIDE)



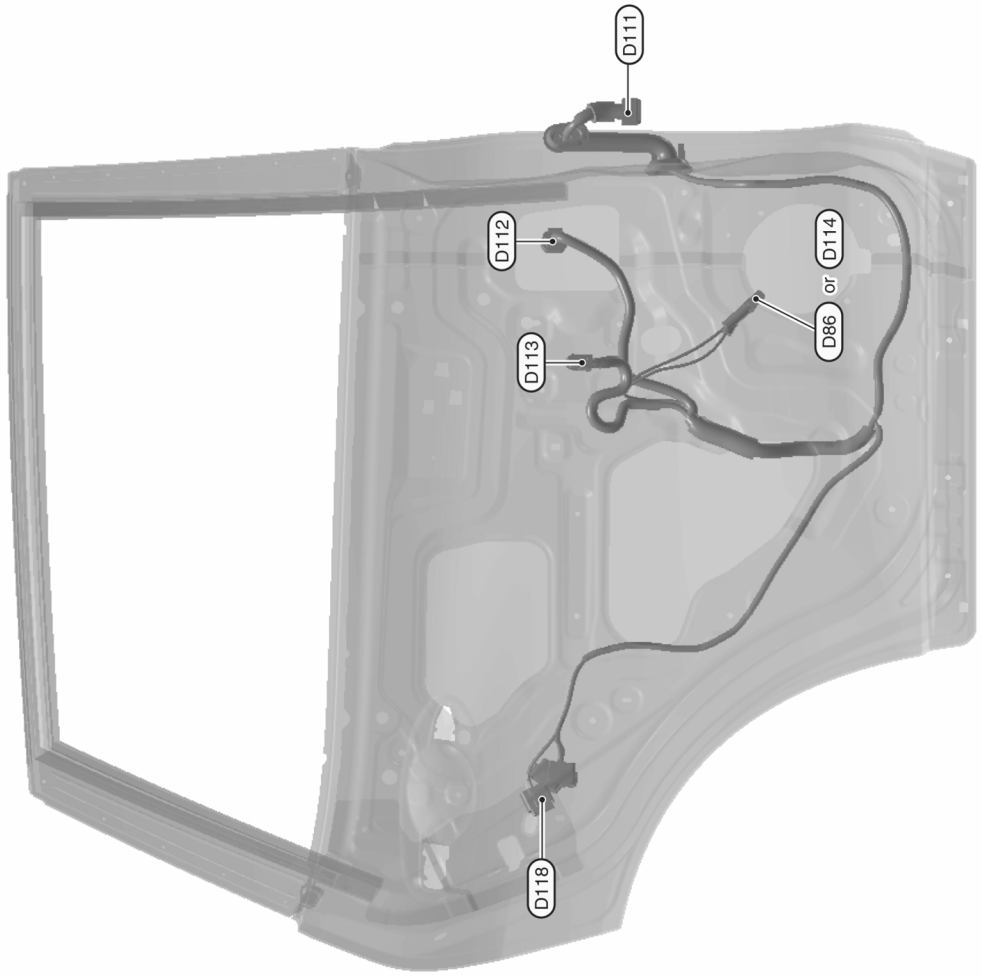
FRONT DOOR HARNESS (RH SIDE) (RHD MODELS)



2014/03/17

JRMIC4463GB

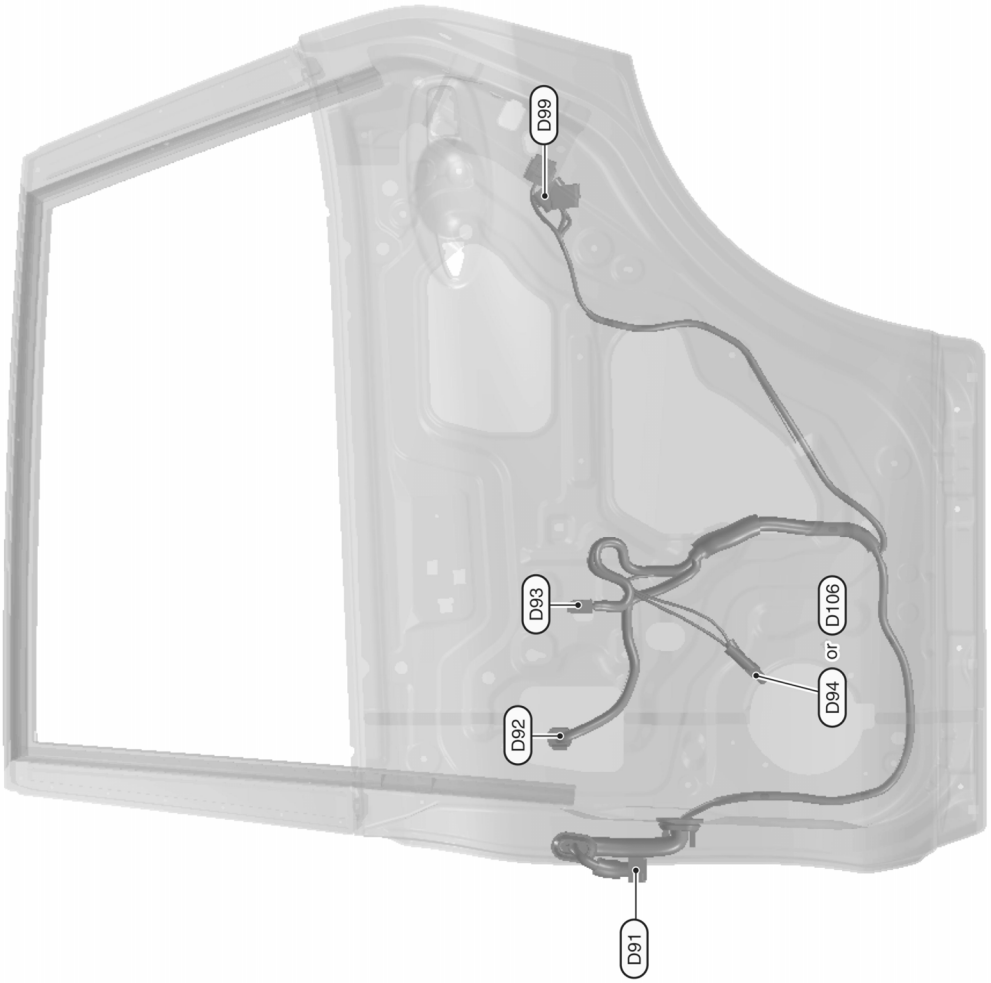
REAR DOOR HARNESS (LH SIDE) (RHD MODELS)



2014/03/17

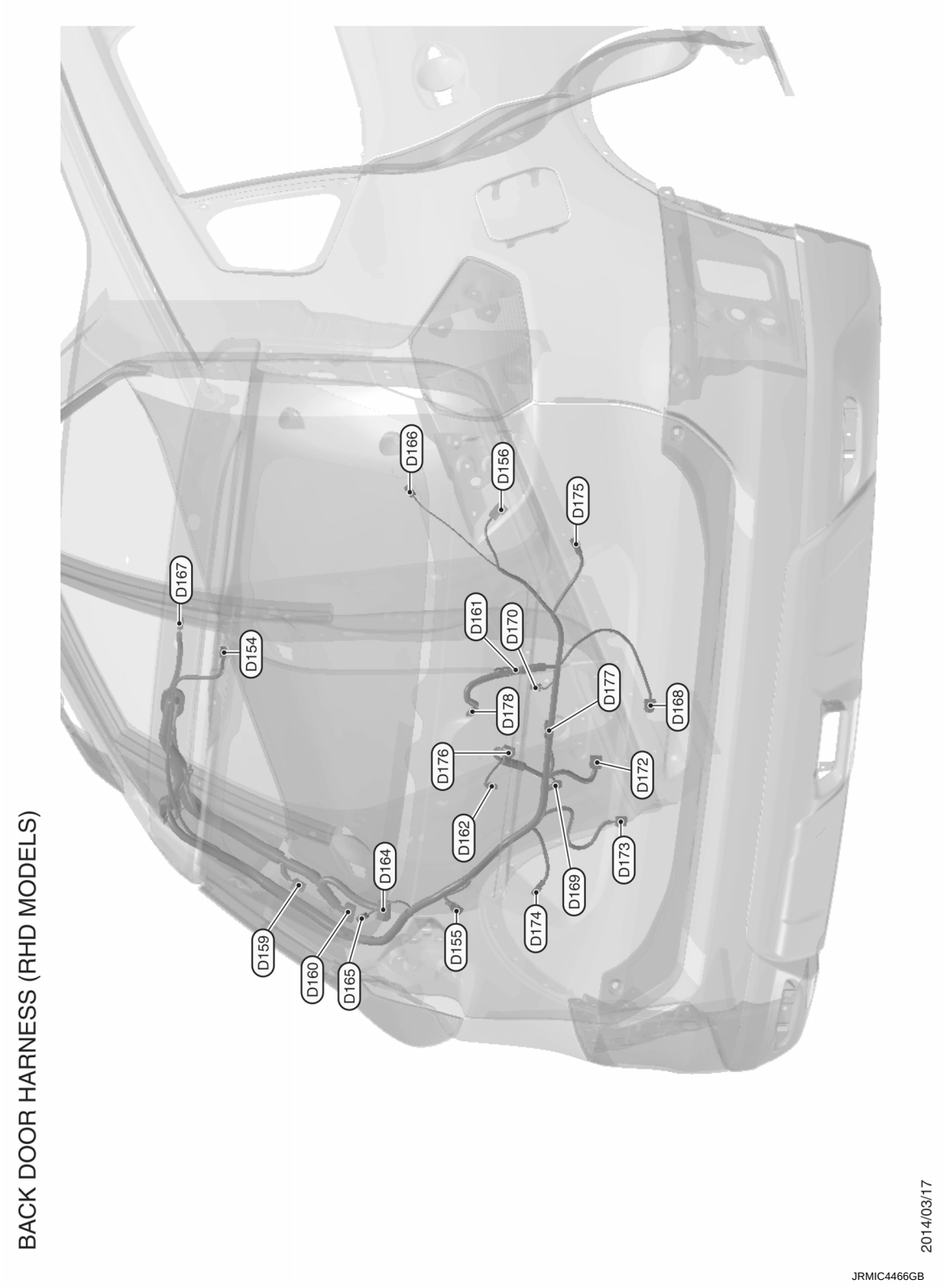
JRMIC4464GB

REAR DOOR HARNESS (RH SIDE) (RHD MODELS)



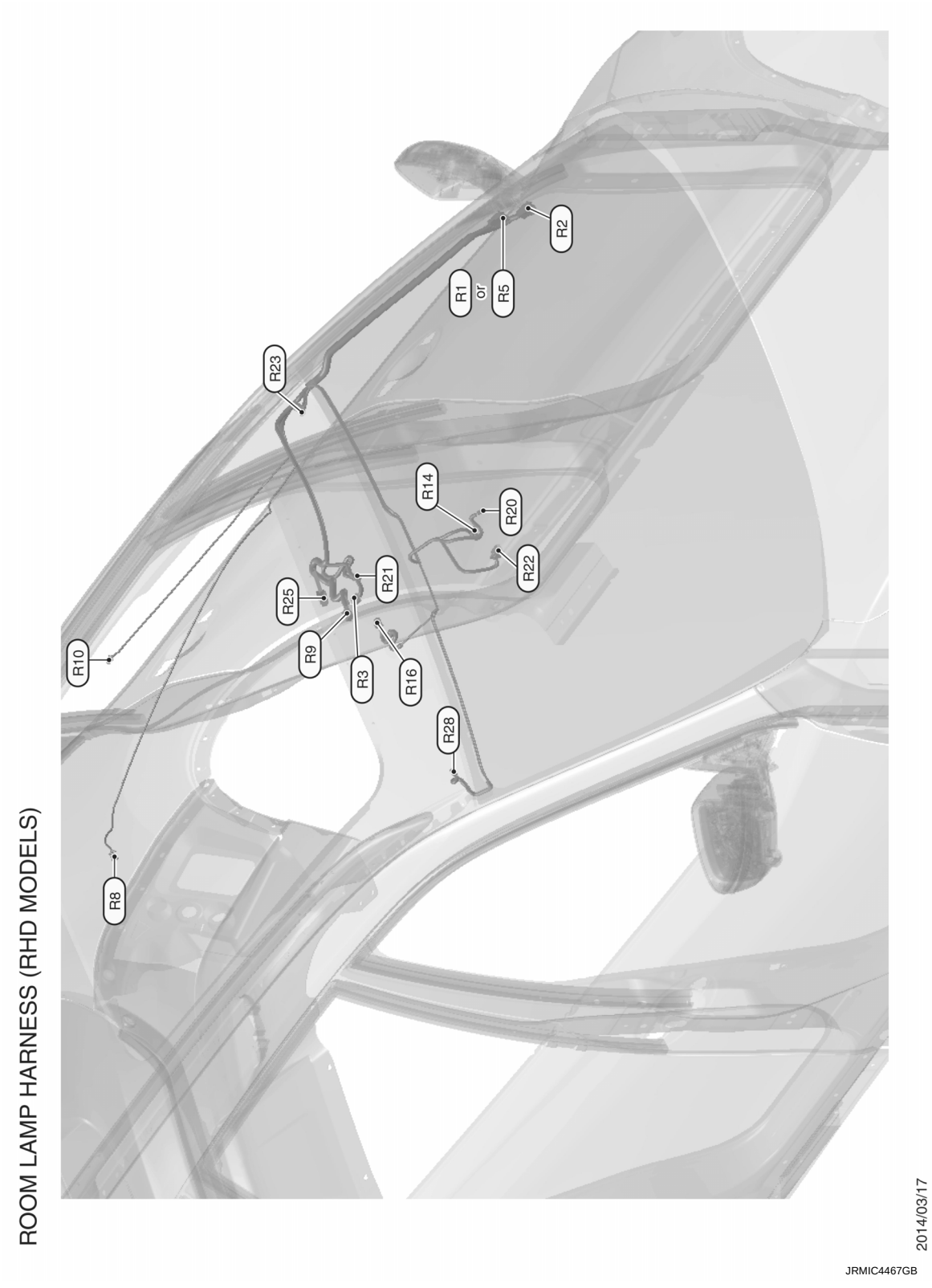
2014/03/17

JRMIC4465GB


BACK DOOR HARNESS (RHD MODELS)
D166
D156
D175
D167
D161
D170
D154
D177
D168
D178
D176
D172
D162
D173
D164
D169
D159
D174
D155
D160
D165
2014/03/17
JRMIC4466GB

RHD : Room Lamp Harness

INFOID:0000000010709226



BASIC INSPECTION

BATTERY INSPECTION

R9M

R9M : How to Handle Battery

INFOID:0000000010713253

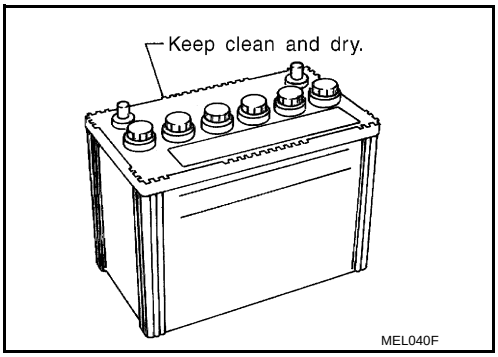
CAUTION:

- **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.**

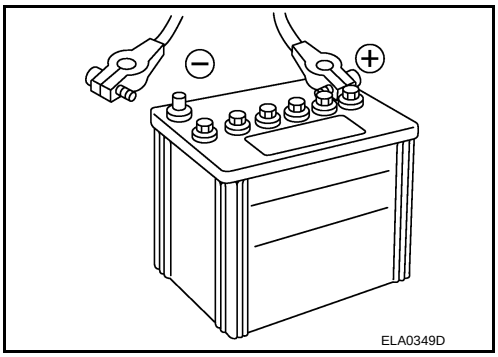
Methods of Preventing Over-discharge

The following precautions must be taken to prevent over-discharging a battery.

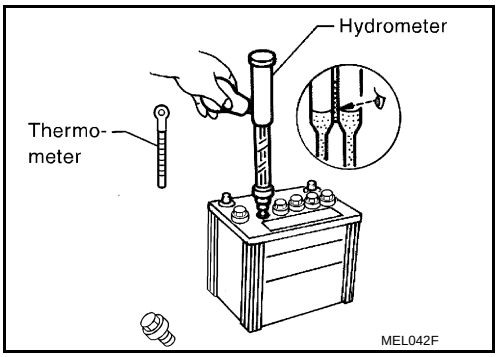
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level.
  This also applies to batteries designated as “low maintenance” and “maintenance-free”.



- 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.)



- 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.

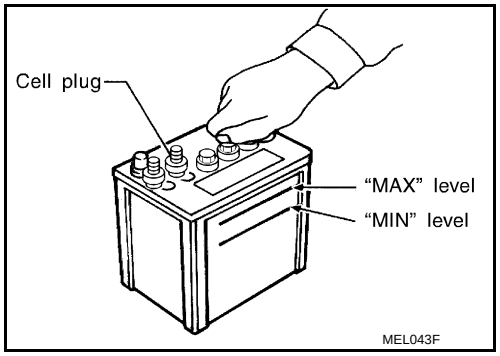


Checking Electrolyte Level

WARNING:

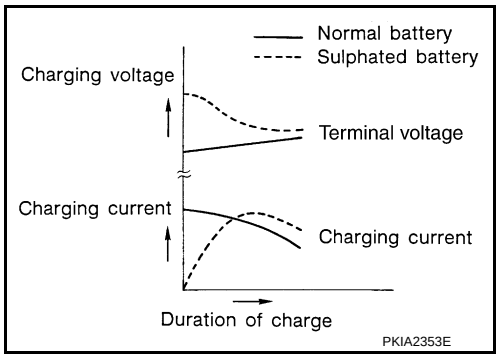
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.

- 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.**

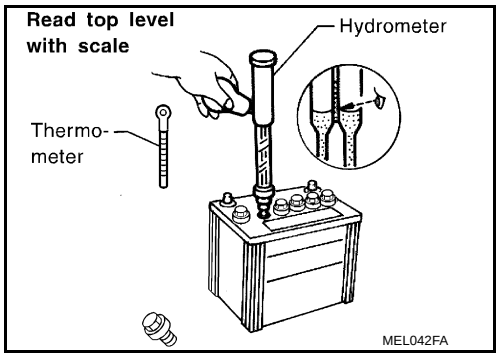


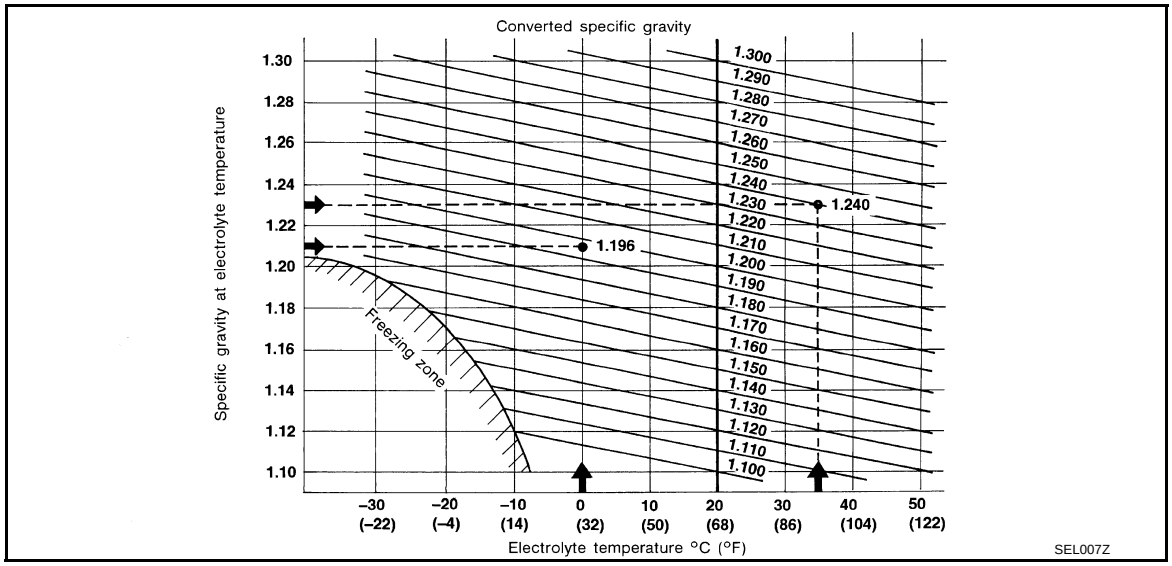
Specific Gravity Check

1. Read hydrometer and thermometer indications at eye level.
2. Convert into specific gravity at 20°C (68°F).

Example:

- When electrolyte temperature is 35°C (95°F) and specific gravity of electrolyte is 1.230, converted specific gravity at 20°C (68°F) is 1.240.
- When electrolyte temperature is 0°C (32°F) and specific gravity of electrolyte is 1.210, converted specific gravity at 20°C (68°F) is 1.196.





R9M : Work Flow

INFOID:0000000010713254

1. CHECK BATTERY (USE CONSULT)

Check the battery, using CONSULT. Refer to EC-1222, "Diagnosis Procedure".

Is the check result normal?

YES >> GO TO 2.
NO >> Replace battery. Refer to PG-139, "R9M : Removal and Installation".

2. CHECK FLUID LEVEL

Visually check that the fluid level of each battery cell is within specifications.

Is the fluid level of each battery cell within specifications (between MAX. and MIN. limits)?

YES >> GO TO 4.
NO >> GO TO 3.

3. FILL WITH BATTERY FLUID

Remove cell plug to add distilled water to the MAX. level.

CAUTION:

- **Since battery fluid is highly corrosive, never allow physical contact and a splash on clothing and the vehicle. After touching the battery, never touch eyes until after hand-washing. In case of skin (or clothing) contact, immediately wash the contacted area with water for 15 minutes. If the battery fluid gets in eyes, wash them with clean water and consult with the doctor.**
- **If the battery surface gets dirty, remove the battery and wash it with water or warm water. After washing the battery, wipe it dry with a dry cloth.**
- **Use battery fluid or distilled water. Never add tap water. Failure to do this will cause low fluid level and battery discharge.**
- **Never allow battery fluid to spill over.**

>> GO TO 4.

4. CHECK BATTERY VOLTAGE

1. Turn the ignition switch OFF. Turn ON the headlamps and let them stay ON for 30 seconds.
2. Turn OFF the headlamps and let it stand for one minute.
3. Check battery voltage.

Is battery voltage 12.4 V or more?

YES >> GO TO 6.
NO >> GO TO 5.

5. RECHARGE BATTERY

Recharge the battery according to the battery charger instructions.

CAUTION:

- **There are two charging methods: Quick charging and standard charging.**
  "Standard charging" is used for recovering the state of charge.
  "Quick charging" is used for the emergency recovery of the battery to the state that the engine can be started.
- **Never perform the "Quick charging" for an uncharged battery.**
  Perform "Standard charging" under normal conditions.
- **Comply with the following charging current.**
  For "Standard charging", use approximately 1/10 of the current in 20-hour-rate capacity.
  For "Quick charging", use approximately 1/2 of the current in 20-hour-rate capacity.
- **Leave all the cell plugs open during charging.**
- **Never put the battery close to fire while charging.**
- **When connecting to the battery charger, connect lead wire before turning ON the battery charger. If the battery charger is turned ON before connecting the lead wire, sparks are emitted.**
- **While charging the battery, maintain battery fluid temperature as follows:**
  Standard charging: 45 °C (113 °F) or less
  Quick charging: 55 °C (131 °F) or less
- **Battery charging completes when the specific gravity reaches 1.25 - 1.29 and a steady value is maintained for more than 1 hour.**

- **Since quick charging requires a large current and has a high heating value, never perform this continuously for 30 minutes or more.**

NOTE:
During a battery charge, the charger current value decreases naturally with time. This means a battery voltage value is normally increasing by charging.

>> GO TO 6.

6. CHECK SPECIFIC GRAVITY

Check that the specific gravity among the battery cells is within specifications, using a hydrometer or battery coolant tester. Refer to PG-118, "R9M : How to Handle Battery".

CAUTION:
- **Check all the cells for variation.**
- **After the battery charge, if the variation in specific gravity among the cells is 0.05 or more, replace the battery.**

Is the specific gravity among the battery cells within specifications?

YES >> INSPECTION END (The battery is normal.)
NO >> Replace battery. Refer to PG-139, "R9M : Removal and Installation".

EXCEPT FOR R9M

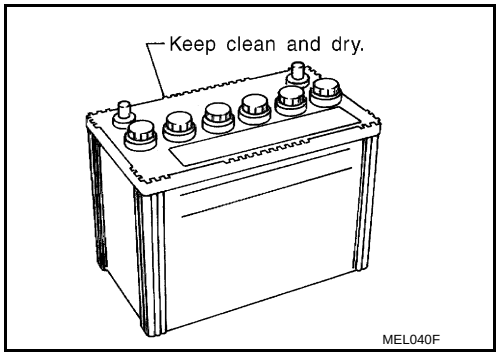
EXCEPT FOR R9M : How to Handle Battery

INFOID:0000000010709227

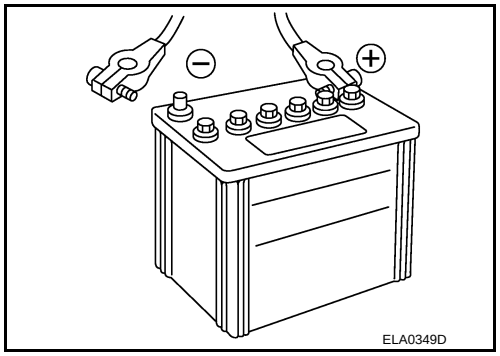
CAUTION:
- **If it becomes necessary to start the engine with a booster battery and jumper cables, use a 12-volt booster battery.**
- **After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.**
- **Never add distilled water through the hole used to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

METHODS OF PREVENTING OVER-DISCHARGE

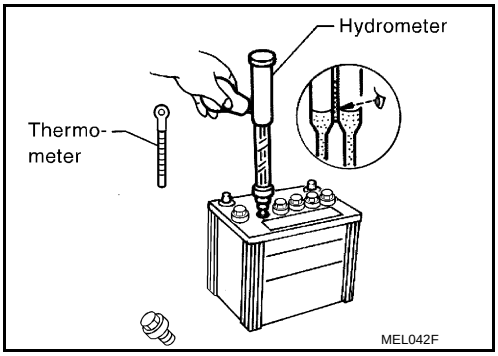
The following precautions must be taken to prevent over-discharging a battery.
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level. This also applies to batteries 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.)



- 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.

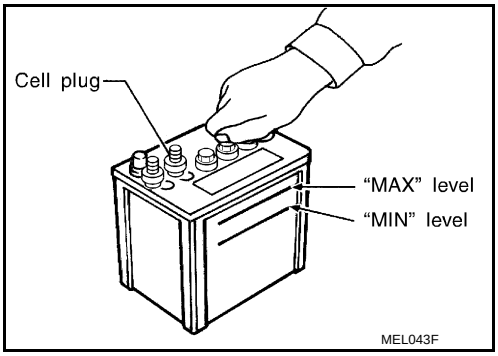


CHECKING ELECTROLYTE LEVEL

WARNING:

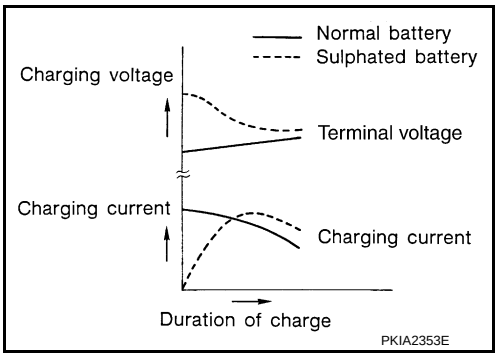
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.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

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



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.

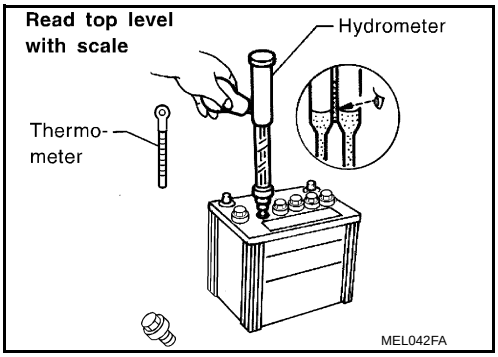


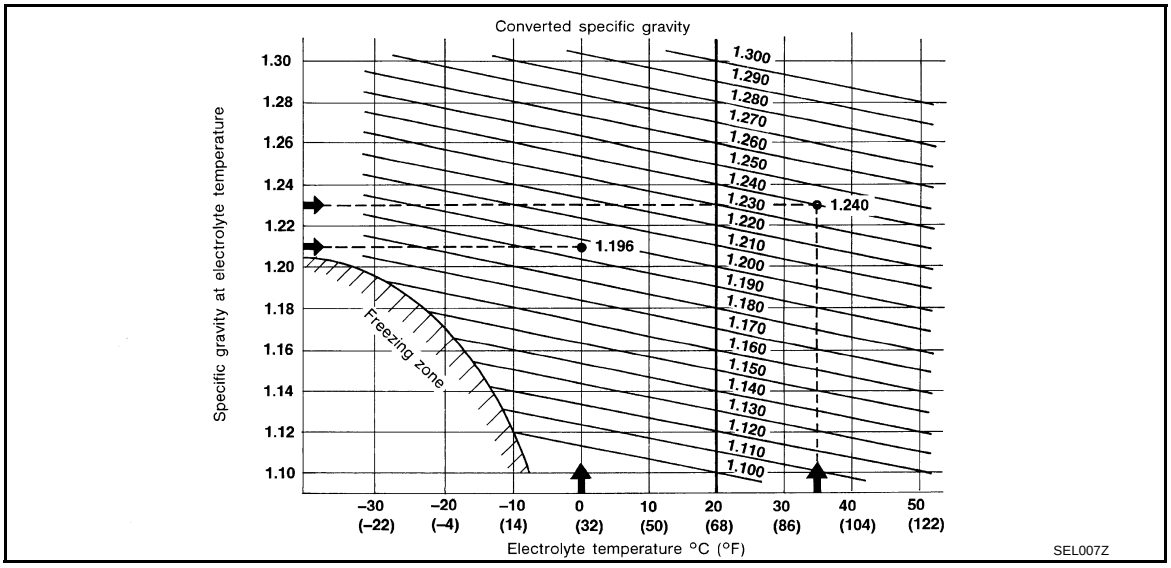
SPECIFIC GRAVITY CHECK

1. Read hydrometer and thermometer indications at eye level.
2. Convert into specific gravity at 20°C (68°F).

Example:

- When electrolyte temperature is 35°C (95°F) and specific gravity of electrolyte is 1.230, converted specific gravity at 20°C (68°F) is 1.240.
- When electrolyte temperature is 0°C (32°F) and specific gravity of electrolyte is 1.210, converted specific gravity at 20°C (68°F) is 1.196.

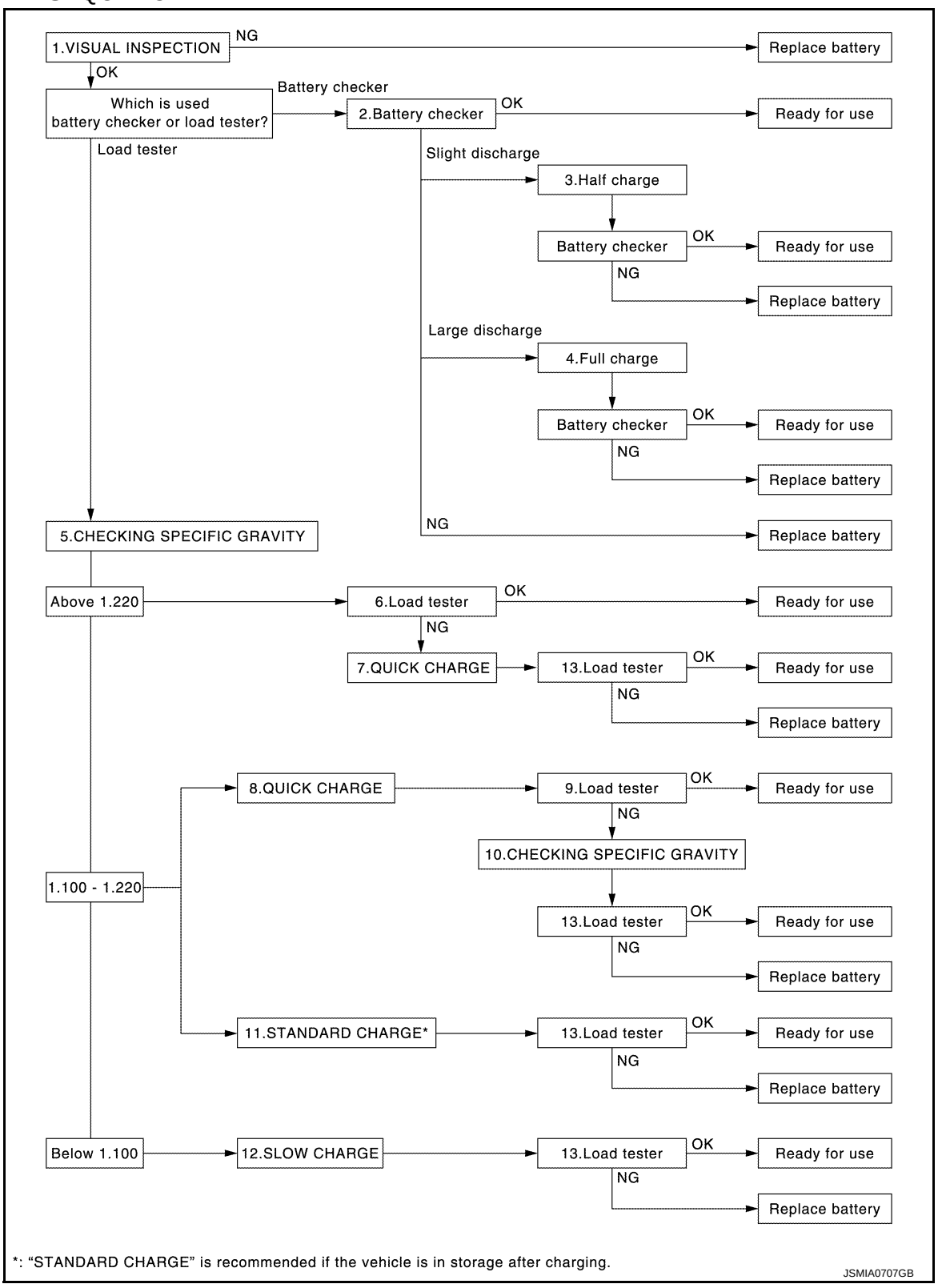



Converted specific gravity
Specific gravity at electrolyte temperature
1.30
1.28
1.26
1.24
1.22
1.20
1.18
1.16
1.14
1.12
1.10
1.300
1.290
1.280
1.270
1.260
1.250
1.240
1.230
1.220
1.210
1.200
1.190
1.180
1.170
1.160
1.150
1.140
1.130
1.120
1.110
1.100
1.240
1.196
Freezing zone
–30 (–22)
–20 (–4)
–10 (14)
0 (32)
10 (50)
20 (68)
30 (86)
40 (104)
50 (122)
Electrolyte temperature °C (°F)
SEL007Z

EXCEPT FOR R9M : Work Procedure

INFOID:0000000010709228

OVERALL SEQUENCE



DETAILED FLOW

1.VISUAL INSPECTION

1. Check battery case for cracks or bends.
2. Check battery terminals for damage.

3. Check that battery fluid level is between MAX and MIN. If the battery fluid level is outside the specified level, add fluid to satisfy the specified level.

Are these inspection results normal?

YES-1 (Test using battery checker)>>GO TO 2.
YES-2 (Test using load tester)>>GO TO 5.
NO >> Replace battery.

2.CAPACITY TEST

Test using battery checker.

Is the inspection result normal?

YES-1 (OK)>>Ready for use. Mount battery again and check loose terminals. Also check other related circuits.
YES-2 (Slight discharge)>>GO TO 3.
NO-1 (Large discharge)>>GO TO 4.
NO-2 (NG)>>Replace battery.

3.HALF CHARGE

1. Perform half charge, according to the following table.

Type	Current (A)	Charging time (h)	Charge type
80D23L	26	0.5	Quick
	5	5	Standard

2. Test using battery checker.

Is the inspection result normal?

YES (OK)>>Ready for use.
NO (Other than OK)>>Replace battery.

4.FULL CHARGE

1. Perform full charge, according to the following table.

Type	Current (A)	Charging time (h)	Charge type
80D23L	5	10	Standard

2. Test using battery checker.

Is the inspection result normal?

YES (OK)>>Ready for use.
NO (Other than OK)>>Replace battery.

5.CHECKING SPECIFIC GRAVITY

Check specific gravity. Refer to PG-121, "EXCEPT FOR R9M : How to Handle Battery".

Inspection results

Above 1.220>>GO TO 6.
1.100 - 1.220 (When performing quick charge)>>GO TO 8.
1.100 - 1.220 (When performing standard charge)>>GO TO 11.
Below 1.100>>GO TO 12.

6.CAPACITY TEST

1. Test using load tester.
2. Check battery type and determine the specified current using the table.

Discharging Current (Load Tester)

Type	Current (A)
28B19L/R	90
34B19L/R	99

Type	Current (A)
46B24L/R	135
55B24L/R	
55B24L(S)	
50D23L/R	150
55D23L/R	180
80D23L/R	195
65D26L/R	
80D26L/R	
75D31L/R	210
95D31L/R	240
115D31L/R	
025 [YUASA type code]	
027 [YUASA type code]	285
110D26L/R	300
95E41L/R	
067 [YUASA type code]	325
130E41L/R	330
096 [YUASA type code]	375

3. Read load tester voltage when specified discharging current flows through battery for 15 seconds.

Is the voltage 9.6 V or more?

YES >> Ready for use.
NO >> GO TO 7.

7. QUICK CHARGE

1. Perform quick charge. Time required: 45 min. Refer to PG-136, "Quick Charge".
2. Perform capacity test.

>> GO TO 13.

8. QUICK CHARGE

1. Perform quick charge. Refer to PG-136, "Quick Charge".
2. Perform capacity test.

>> GO TO 9.

9. CAPACITY TEST

1. Test using load tester.
2. Check battery type and determine the specified current using the table.

Discharging Current (Load Tester)

Type	Current (A)
28B19L/R	90
34B19L/R	99
46B24L/R	135
55B24L/R	
55B24L(S)	
50D23L/R	150
55D23L/R	180

Type	Current (A)
80D23L/R	195
65D26L/R	
80D26L/R	
75D31L/R	210
95D31L/R	240
115D31L/R	
025 [YUASA type code]	
027 [YUASA type code]	285
110D26L/R	300
95E41L/R	
067 [YUASA type code]	325
130E41L/R	330
096 [YUASA type code]	375

3. Read load tester voltage when specified discharging current flows through battery for 15 seconds.

Is the voltage 9.6 V or more?

YES >> Ready for use.
NO >> GO TO 10.

10. CHECKING SPECIFIC GRAVITY

1. Check specific gravity. Refer to PG-121, "EXCEPT FOR R9M : How to Handle Battery".
2. Perform recharge. Refer to PG-136, "Quick Charge".
   NOTE:
   If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).
3. Perform capacity test.

>> GO TO 13.

11. STANDARD CHARGE

NOTE:
"STANDARD CHARGE" is recommended if the vehicle is in storage after charging.

1. Perform standard charge. Refer to PG-135, "Standard Charge".
2. Perform capacity test.

>> GO TO 13.

12. SLOW CHARGE

1. Perform slow charge. Refer to PG-134, "Slow Charge".
2. Perform capacity test.

>> GO TO 13.

13. CAPACITY TEST

1. Test using load tester.
2. Check battery type and determine the specified current using the table.

Discharging Current (Load Tester)

Type	Current (A)
28B19L/R	90
34B19L/R	99

Type	Current (A)
46B24L/R	135
55B24L/R	
55B24L(S)	
50D23L/R	150
55D23L/R	180
80D23L/R	195
65D26L/R	
80D26L/R	
75D31L/R	210
95D31L/R	240
115D31L/R	
025 [YUASA type code]	
027 [YUASA type code]	285
110D26L/R	300
95E41L/R	
067 [YUASA type code]	325
130E41L/R	330
096 [YUASA type code]	375

3. Read load tester voltage when specified discharging current flows through battery for 15 seconds.

Is the voltage 9.6 V or more?

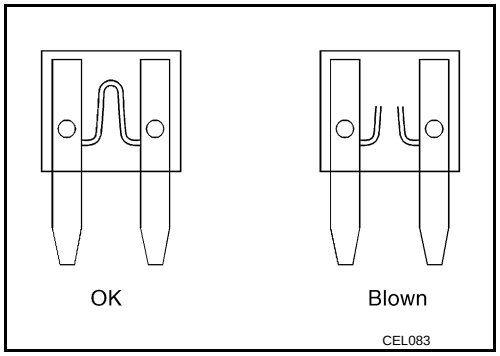
YES >> Ready for use.
NO >> Replace battery.

FUSE INSPECTION

How To Check

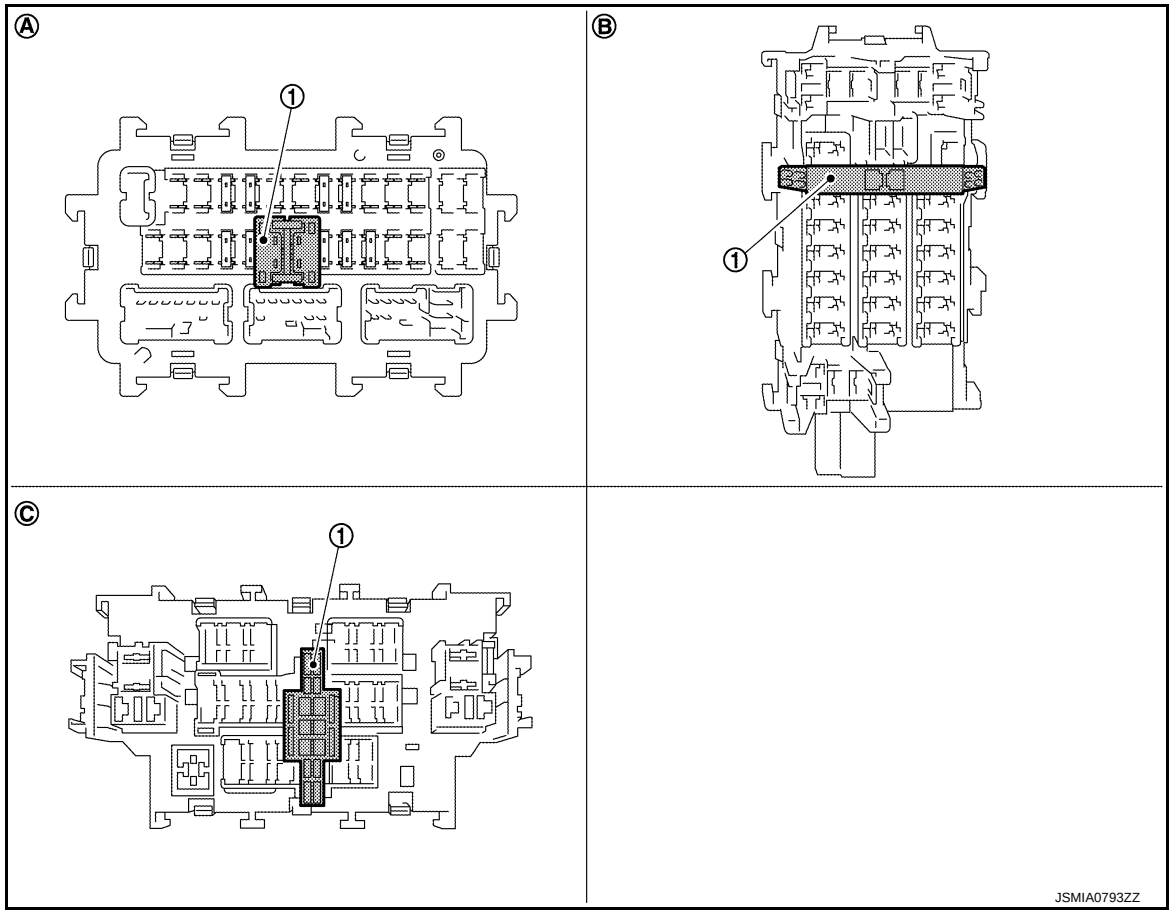
INFOID:0000000010709231

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



EXTENDED STORAGE FUSE SWITCH (IF EQUIPPED)

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



① Extended storage fuse switch

Ⓐ Type A Ⓑ Type B Ⓒ Type C

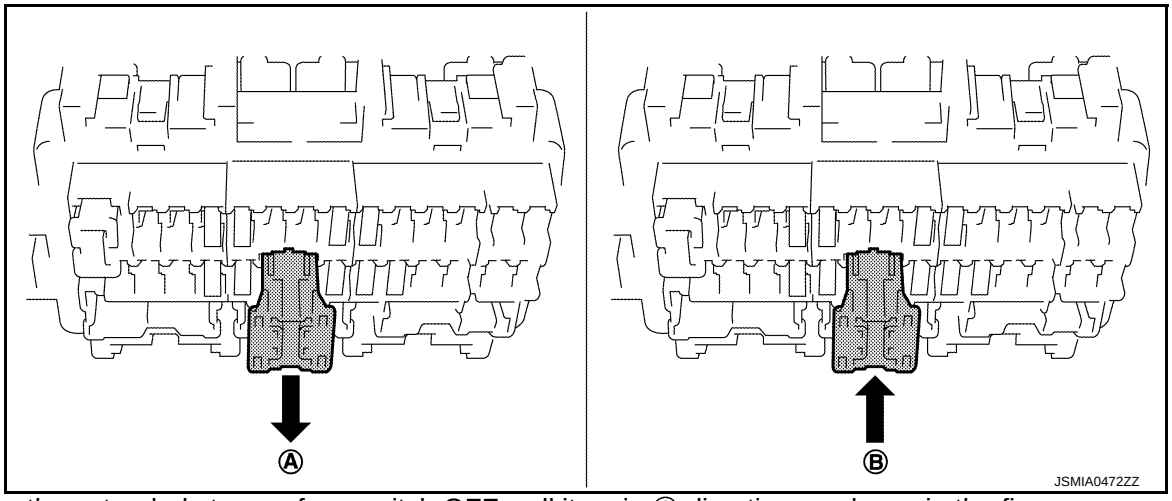
Remove the extended storage fuse switch if it causes the interference when checking fuses.

How To Extended Storage Fuse Switch ON/OFF

CAUTION:

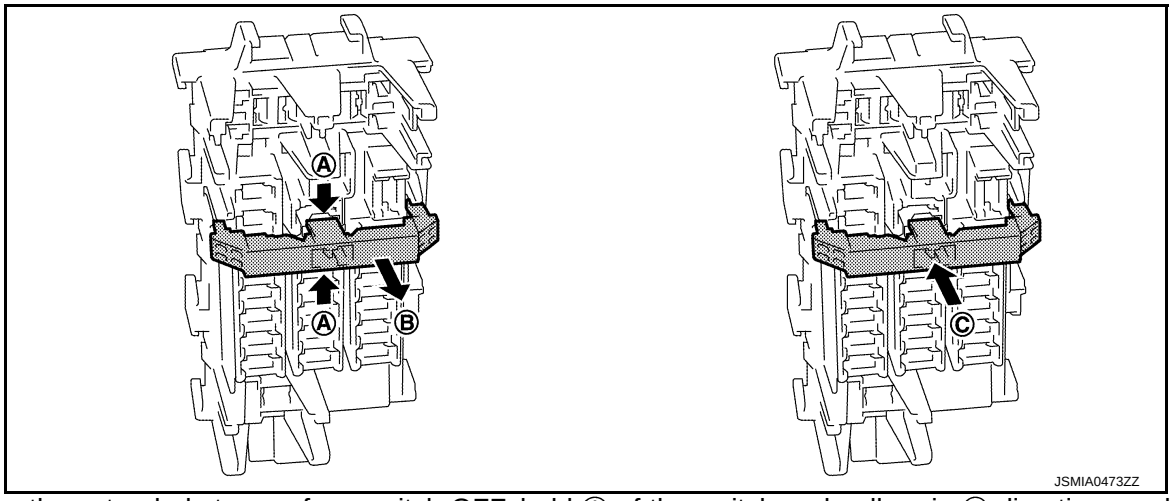
- **Turn the ignition switch OFF when operating the extended storage fuse switch.**
- **Under normal conditions, keep the extended storage fuse switch in ON state. Never operate the extended storage fuse switch except when necessary.**

• Type A



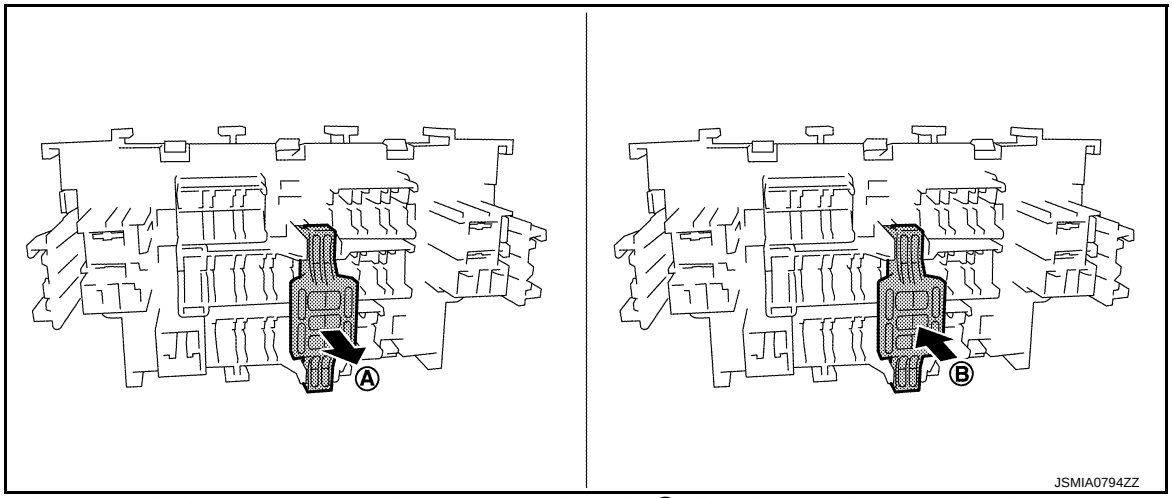
- To turn the extended storage fuse switch OFF, pull it up in Ⓐ direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in Ⓑ direction as shown in the figure.

• Type B



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

• Type C

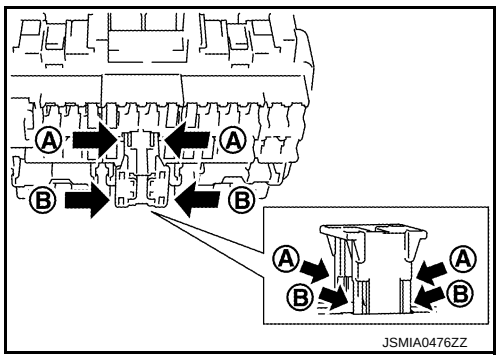


- To turn the extended storage fuse switch OFF, pull it up in Ⓐ direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in Ⓑ direction as shown in the figure.

How To Remove Extended Storage Fuse Switch

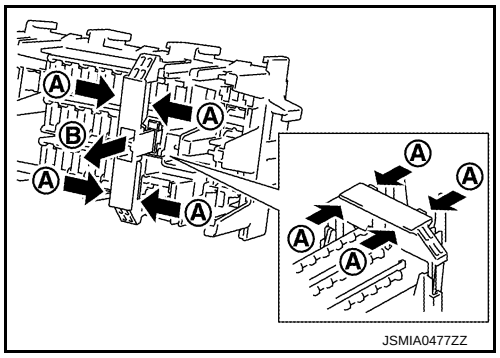
Type A

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



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

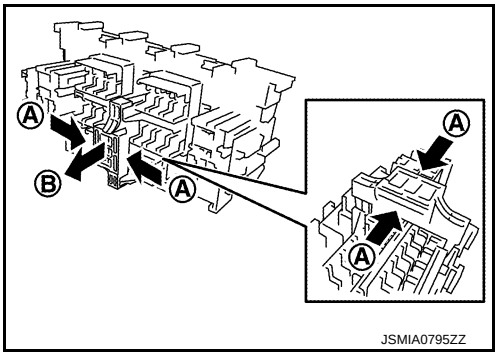
Type B
1. Turn the ignition switch OFF.
2. Turn the extended storage fuse switch OFF.
3. Hold Ⓐ and pull up the extended storage fuse switch hard in Ⓑ direction.



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

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

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



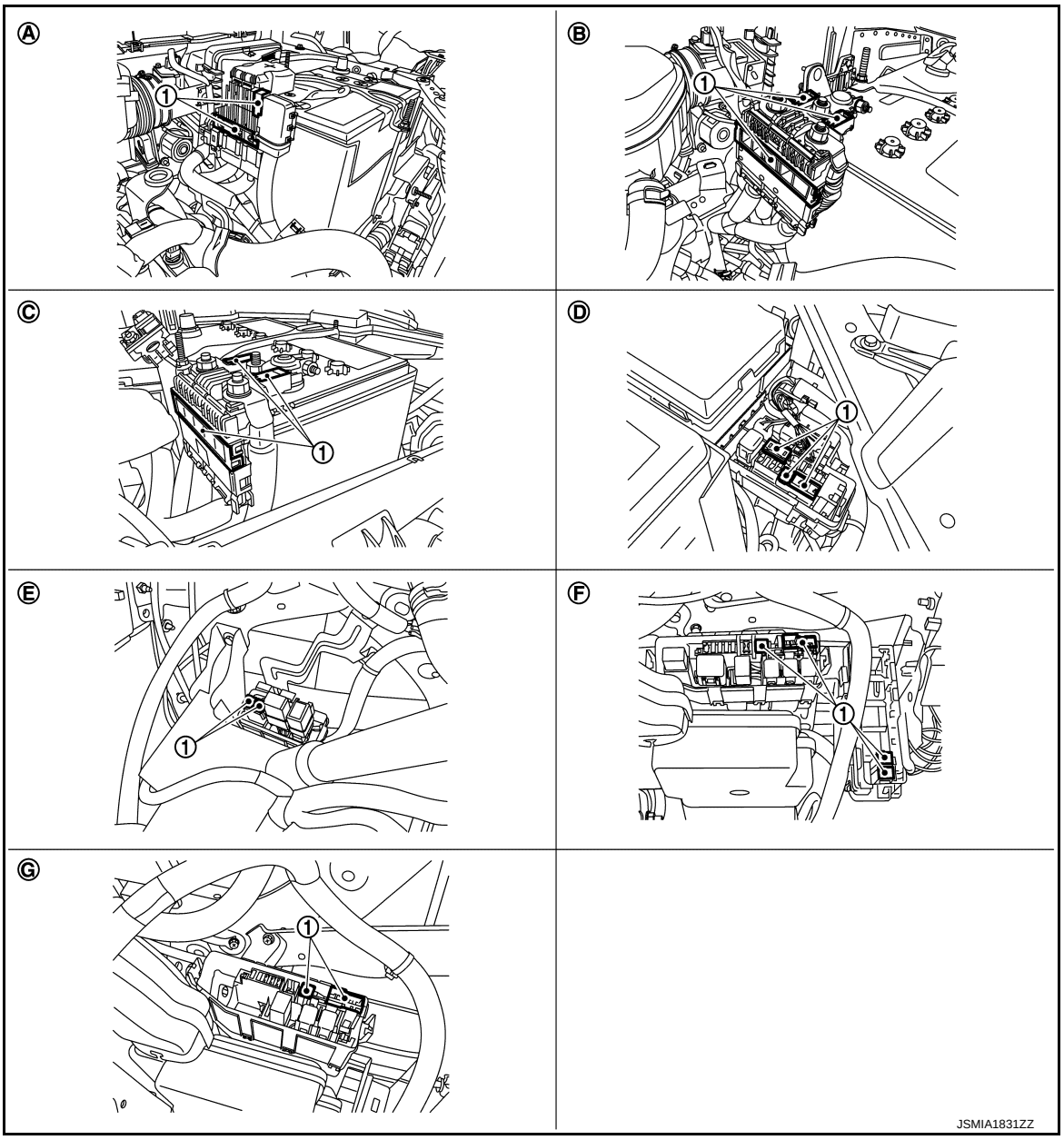
CAUTION:
Never use fuse for bus bar.
NOTE:
- Extended storage fuse switch and bus bar are removed together. Remove bus bar from extended storage fuse switch, if necessary.
- Install removed bus bar to fuse block.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not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

FUSIBLE LINK INSPECTION

How To Check

INFOID:0000000010709232

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

Ⓐ Battery - QR25DE engine models

Ⓑ Battery - MR20DD engine models

Ⓒ Battery - R9M engine models

Ⓓ Engine room fuse box

Ⓔ Under the headlamp right - R9M engine models

Ⓕ Under the headlamp left- R9M engine models

Ⓖ Under the headlamp - Except for R9M engine models

CAUTION:

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

BATTERY CHARGING CHART

Slow Charge

INFOID:0000000010709233

1.DETERMINE INITIAL CHARGING CURRENT

1. Determine initial charging current from specific gravity.
2. Check battery type and determine the specified current using the table.

NOTE:
After starting charging, adjustment of charging current is not necessary.

Initial Charging Current Setting (Slow Charge)

CONVERTED SPECIFIC GRAVITY	BATTERY TYPE																	
	28B19L/R	34B19L/R	46B24L/R	55B24L/R	50D23L/R	55D23L/R	025 [YUASA type code]	027 [YUASA type code]	80D23L/R	65D26L/R	80D26L/R	067 [YUASA type code]	096 [YUASA type code]	75D31L/R	95D31L/R	115D31L/R	110D26L/R	95E41L/R	130E41L/R
Below 1.100	4.0 (A)		5.0 (A)		7.0 (A)				8.0 (A)				8.5 (A)	9.0 (A)	10.0 (A)				14.0 (A)

>> GO TO 2.

2.CHARGE BATTERY

1. Charge battery.
2. Check charge voltage 30 minutes after starting the battery charge.

Is the voltage between 12 V and 15 V?

YES >> GO TO 3.
NO >> Replace battery.

3.CHARGE BATTERY

Continue to charge for 12 hours.

>> GO TO 4.

4.CHECKING SPECIFIC GRAVITY

Check specific gravity. Refer to PG-121, "EXCEPT FOR R9M : How to Handle Battery".

Is the specific gravity 1.240 or more?

YES >> Complete slow charge. Perform “CAPACITY TEST”. Refer to PG-124, "EXCEPT FOR R9M : Work Procedure".
NO >> GO TO 5.

5.CONDUCT ADDITIONAL CHARGE

Add charging time depending on specific gravity.

Additional Charge (Slow Charge)

SPECIFIC GRAVITY	CHARGING TIME (h)
Below 1.150	5
1.150 - 1.200	4
1.200 - 1.240	2

>> Complete slow charge. Perform “CAPACITY TEST”. Refer to PG-124, "EXCEPT FOR R9M : Work Procedure".

CAUTION:

- **Set charging current to value specified in “Initial Charging Current Setting (Slow Charge)”. If charger is not capable of producing specified current value, set its charging current as close to that value as possible.**
- **Keep battery away from open flame while it is being charged.**
- **When connecting charger, connect leads first, then turn on charger. Never turn on charger first, as this may cause a spark.**
- **If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).**

Standard Charge

INFOID:0000000010709234

1.DETERMINE INITIAL CHARGING CURRENT

1. Determine initial charging current from specific gravity.
2. Check battery type and determine the specified current using the table.

NOTE:
After starting charging, adjustment of charging current is not necessary.

Initial Charging Current Setting (Standard Charge)

CONVERTED SPECIFIC GRAVITY	BATTERY TYPE																	
	28B19L/R	34B19L/R	46B24L/R	55B24L/R	50D23L/R	55D23L/R	025 [YUASA type code]	027 [YUASA type code]	80D23L/R	65D26L/R	80D26L/R	067 [YUASA type code]	096 [YUASA type code]	75D31L/R	95D31L/R	115D31L/R	110D26L/R	95E41L/R	130E41L/R
1.100 - 1.130	4.0 (A)		5.0 (A)		6.0 (A)				7.0 (A)					8.0 (A)	9.0 (A)				13.0 (A)
1.130 - 1.160	3.0 (A)		4.0 (A)		5.0 (A)				6.0 (A)					7.0 (A)	8.0 (A)				11.0 (A)
1.160 - 1.190	2.0 (A)		3.0 (A)		4.0 (A)				5.0 (A)					6.0 (A)	7.0 (A)				9.0 (A)
1.190 - 1.220	2.0 (A)		2.0 (A)		3.0 (A)				4.0 (A)					5.0 (A)	5.0 (A)				7.0 (A)

>> GO TO 2.

2.CHARGE BATTERY

Charge battery for 8 hours.

>> GO TO 3.

3.CHECKING SPECIFIC GRAVITY

Check specific gravity. Refer to PG-121, "EXCEPT FOR R9M : How to Handle Battery".

Is the specific gravity 1.240 or more?

YES >> Complete standard charge. Perform “CAPACITY TEST”. Refer to PG-124, "EXCEPT FOR R9M : Work Procedure".

NO >> GO TO 4.

4.CONDUCT ADDITIONAL CHARGE

Add charging time depending on specific gravity.

Additional Charge (Standard Charge)

SPECIFIC GRAVITY	CHARGING TIME (h)
Below 1.150	3.5

SPECIFIC GRAVITY	CHARGING TIME (h)
1.150 - 1.200	2.5
1.200 - 1.240	1.5

>> Complete standard charge. Perform “CAPACITY TEST”. Refer to PG-124, "EXCEPT FOR R9M : Work Procedure".

CAUTION:

- **Never use standard charge method on a battery whose specific gravity is less than 1.100.**
- **Set charging current to value specified in “Initial Charging Current Setting (Standard Charge)”. If charger is not capable of producing specified current value, set its charging current as close to that value as possible.**
- **Keep battery away from open flame while it is being charged.**
- **When connecting charger, connect leads first, then turn on charger. Never turn on charger first, as this may cause a spark.**
- **If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).**

Quick Charge

INFOID:0000000010709235

1. DETERMINE INITIAL CHARGING CURRENT

1. Determine initial charging current setting and charging time from specific gravity.
2. Check battery type and determine the specified current using the table.

NOTE:

After starting charging, adjustment of charging current is not necessary.

Initial Charging Current Setting and Charging Time (Quick Charge)

BATTERY TYPE		28B19L/R	34B19L/R	46B24L/R	55B24L/R	50D23L/R	55D23L/R	80D23L/R	65D26L/R	80D26L/R	025 [YUASA type code]	027 [YUASA type code]	067 [YUASA type code]	096 [YUASA type code]	75D31L/R	95D31L/R	115D31L/R	110D26L/R	95E41L/R	130E41L/R
CURRENT [A]		10		15			20						25		30					40
CONVERTED SPECIFIC GRAVITY	1.100 - 1.130	2.5 hours																		
	1.130 - 1.160	2.0 hours																		
	1.160 - 1.190	1.5 hours																		
	1.190 - 1.220	1.0 hour																		
	Above 1.220	0.75 hour (45 min.)																		

CAUTION:

- **Never use quick charge method on a battery whose specific gravity is less than 1.100.**
- **Set initial charging current to value specified in “Initial Charging Current Setting and Charging Time (Quick Charge)”. If charger is not capable of producing specified current value, set its charging current as close to that value as possible.**
- **Keep battery away from open flame while it is being charged.**
- **When connecting charger, connect leads first, then turn on charger. Never turn on charger first, as this may cause a spark.**
- **Be careful of a rise in battery temperature because a large current flow is required during quick-charge operation.**

If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).

- **Never exceed the charging time specified in "Initial Charging Current Setting and Charging Time (Quick Charge)", because charging battery over the charging time can cause deterioration of the battery.**

>> GO TO 2.

2. CHARGE BATTERY

Charge battery.

>> Complete quick charge. Perform "CAPACITY TEST". Refer to PG-124, "EXCEPT FOR R9M : Work Procedure".

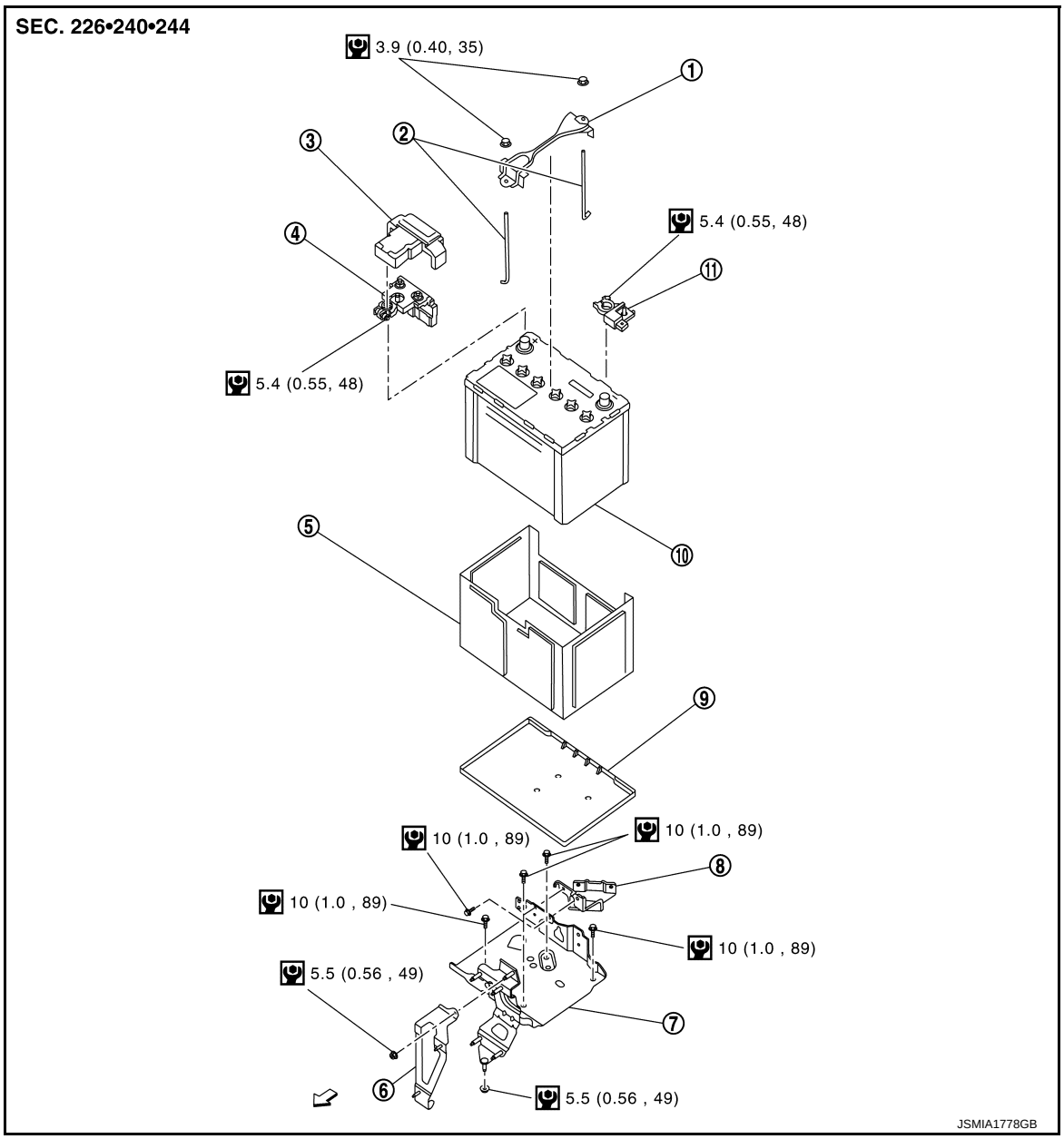
REMOVAL AND INSTALLATION

BATTERY

R9M

R9M : Exploded View

INFOID:0000000010763259



① Battery fix frame
② Battery fix rod
③ Battery positive terminal cover
④ Battery terminal with fusible link
⑤ Battery cover
⑥ TCM mounting bracket
⑦ Battery tray
⑧ Starter relay bracket
⑨ Battery under cover
⑩ Battery
⑪ Battery current sensor

: N·m (kg-m, in-lb)

⇦ : Vehicle front

R9M : Removal and Installation

INFOID:0000000010763260

REMOVAL

1. Disconnect the battery cable from the negative terminal.
   CAUTION:
   To prevent damage to the parts, 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.

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

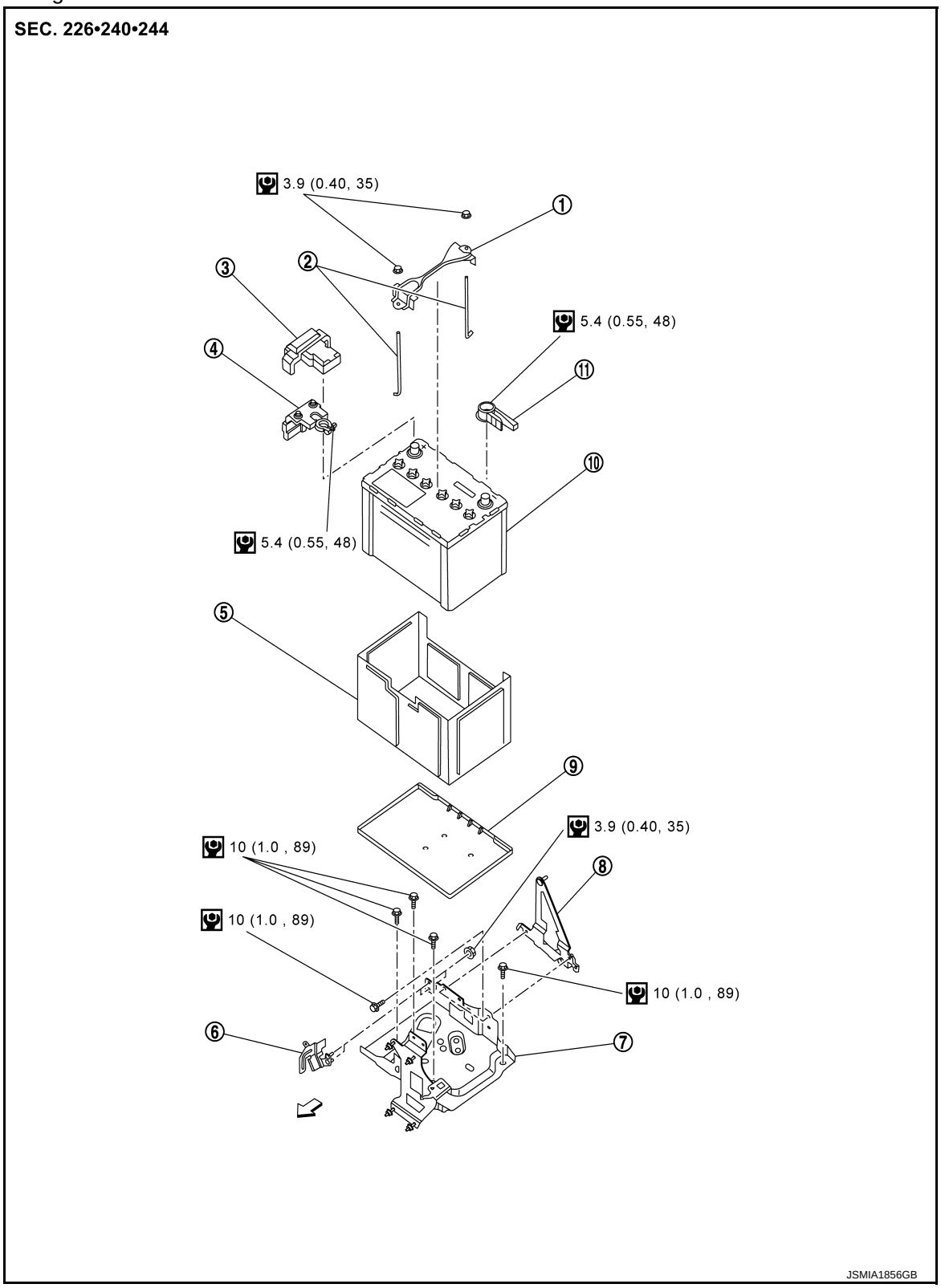
Reset electronic systems as necessary. Refer to GI-61, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection".

EXCEPT FOR R9M

EXCEPT FOR R9M : Exploded View

INFOID:0000000010709236

MR20DD engine models



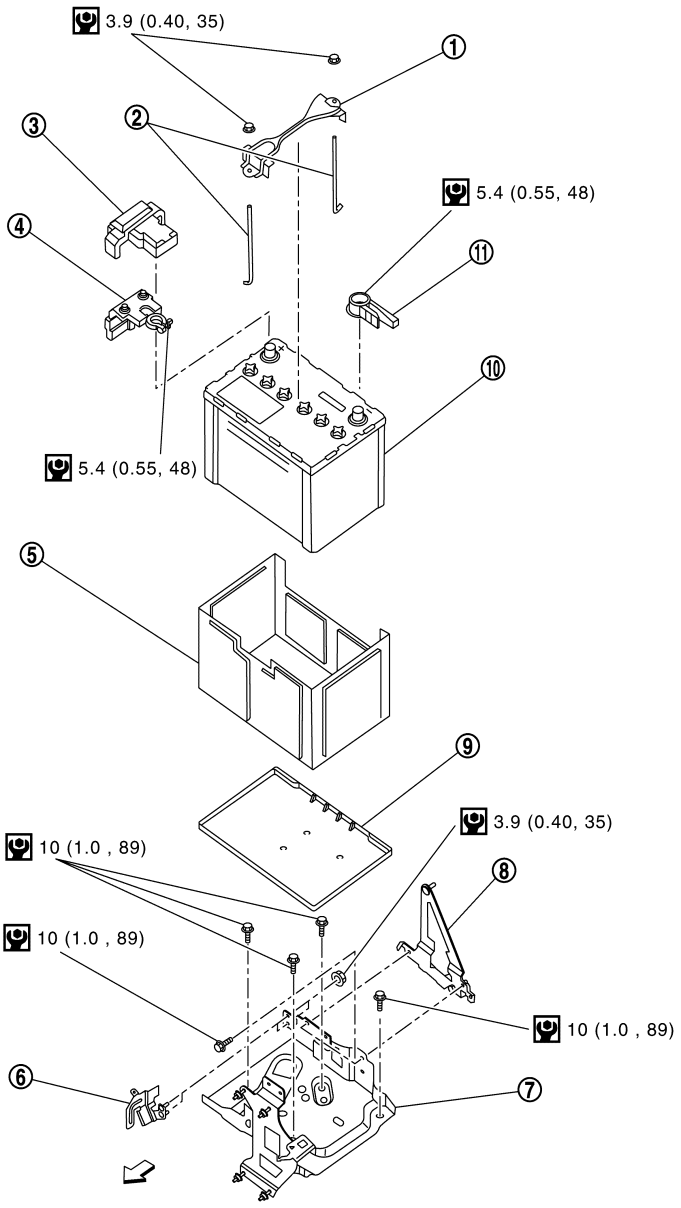
① Battery fix frame
② Battery fix rod
③ Battery positive terminal cover
④ Battery terminal with fusible link
⑤ Battery cover
⑥ Battery tray harness clamp
⑦ Battery tray
⑧ TCM mounting bracket
⑨ Battery under cover
⑩ Battery
⑪ Battery negative terminal

: N·m (kg-m, in-lb)

⇦ : Vehicle front

QR25DE engine models

SEC. 226•240•244



JSMIA1723GB

① Battery fix frame ② Battery fix rod ③ Battery positive terminal cover

④ Battery terminal with fusible link ⑤ Battery cover ⑥ Battery tray harness clamp

⑦ Battery tray
⑧ TCM mounting bracket
⑨ Battery under cover
⑩ Battery
⑪ Battery negative terminal

: N·m (kg-m, in-lb)

⇦ : Vehicle front

EXCEPT FOR R9M : Removal and Installation

INFOID:0000000010709237

REMOVAL

1. Disconnect the battery cable from the negative terminal.
   CAUTION:
   To prevent damage to the parts, 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.

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

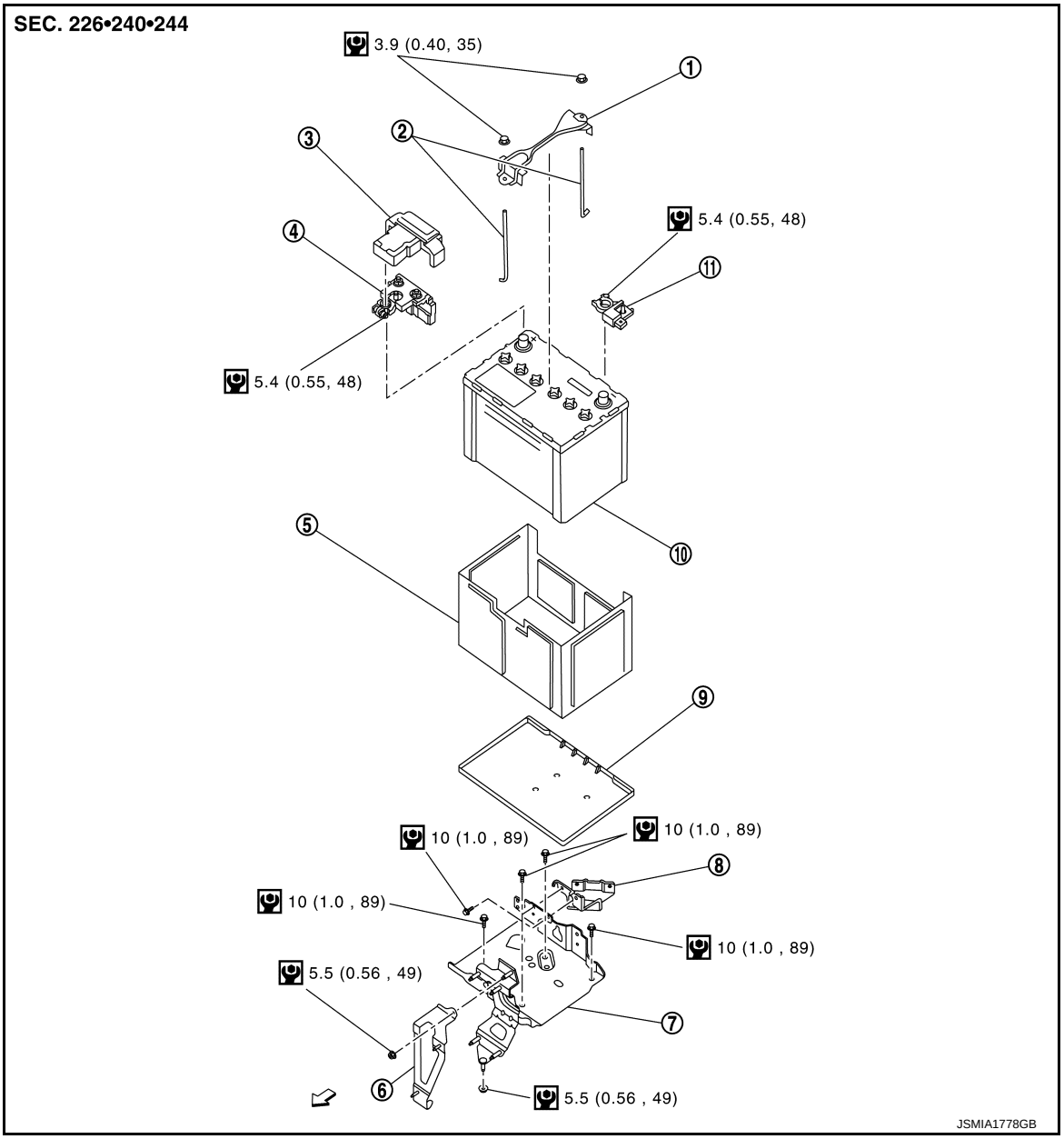
Reset electronic systems as necessary. Refer to GI-61, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection".

BATTERY TRAY

R9M

R9M : Exploded View

INFOID:0000000010763413



① Battery fix frame
② Battery fix rod
③ Battery positive terminal cover
④ Battery terminal with fusible link
⑤ Battery cover
⑥ TCM mounting bracket
⑦ Battery tray
⑧ Starter relay bracket
⑨ Battery under cover
⑩ Battery
⑪ Battery current sensor

: N·m (kg-m, in-lb)

⇦ : Vehicle front

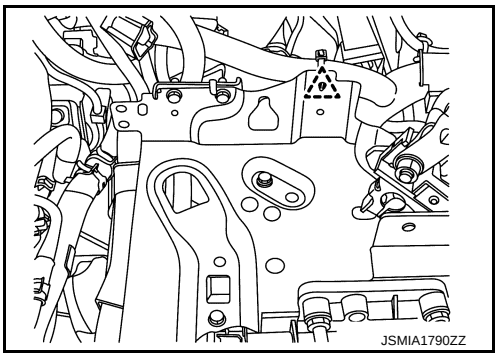
R9M : Removal and Installation

INFOID:0000000010763262

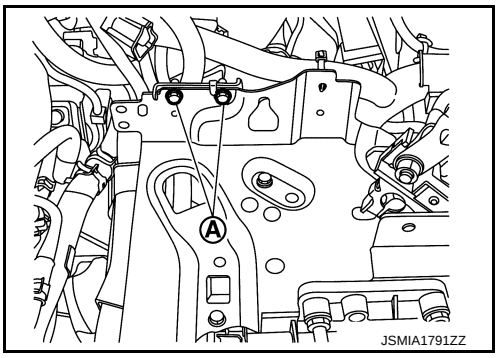
REMOVAL

1. Remove battery. Refer to : PG-139, "R9M : Removal and Installation".
2. Remove air duct. Refer to : EM-308, "Removal and Installation"
3. Remove battery tray under cover.
4. Remove barometric pressure sensor. (If equipped)
5. Disengage wiring harness fixing pawls from battery tray.

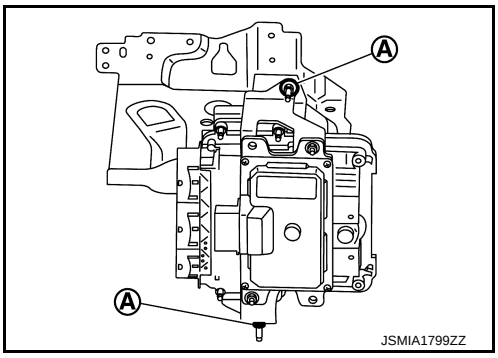
: Pawl



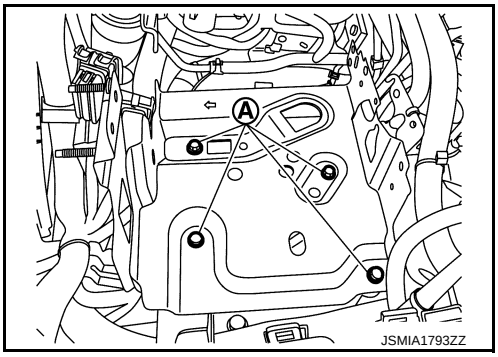
6. Remove starter relay bolts Ⓐ from battery tray.



7. Remove TCM mounting nuts Ⓐ from battery tray.



8. Remove ECM. Refer to : EC-1226, "Removal and Installation".
9. Remove battery tray mounting bolts Ⓐ.



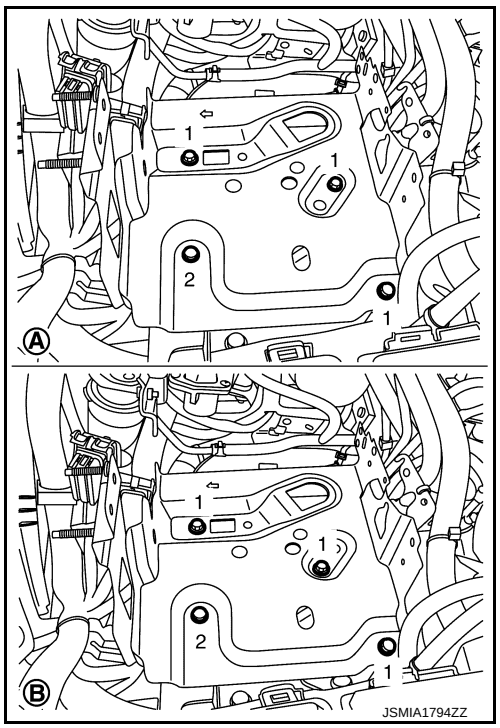
INSTALLATION

1. Install bolts to battery tray.
   - Temporarily tighten bolts 1.
   - Tighten bolt 2 to the specified torque.
   - Tighten bolts 1 to the specified torque.

   Ⓐ : M/T models

   Ⓑ : CVT models

2. Install in the reverse order of removal.



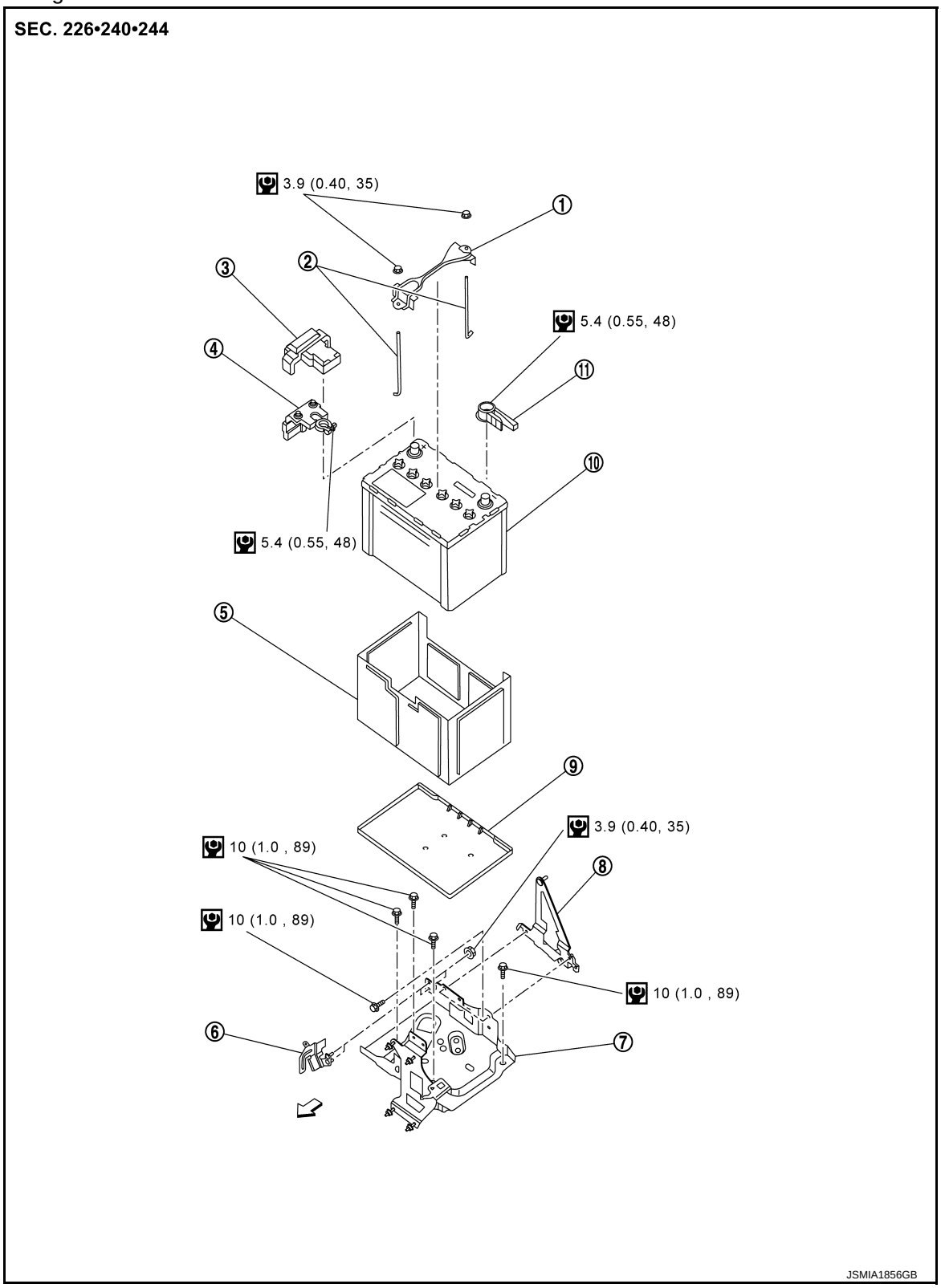
EXCEPT FOR R9M

EXCEPT FOR R9M : Exploded View

INFOID:0000000010763414

MR20DD engine models

SEC. 226•240•244



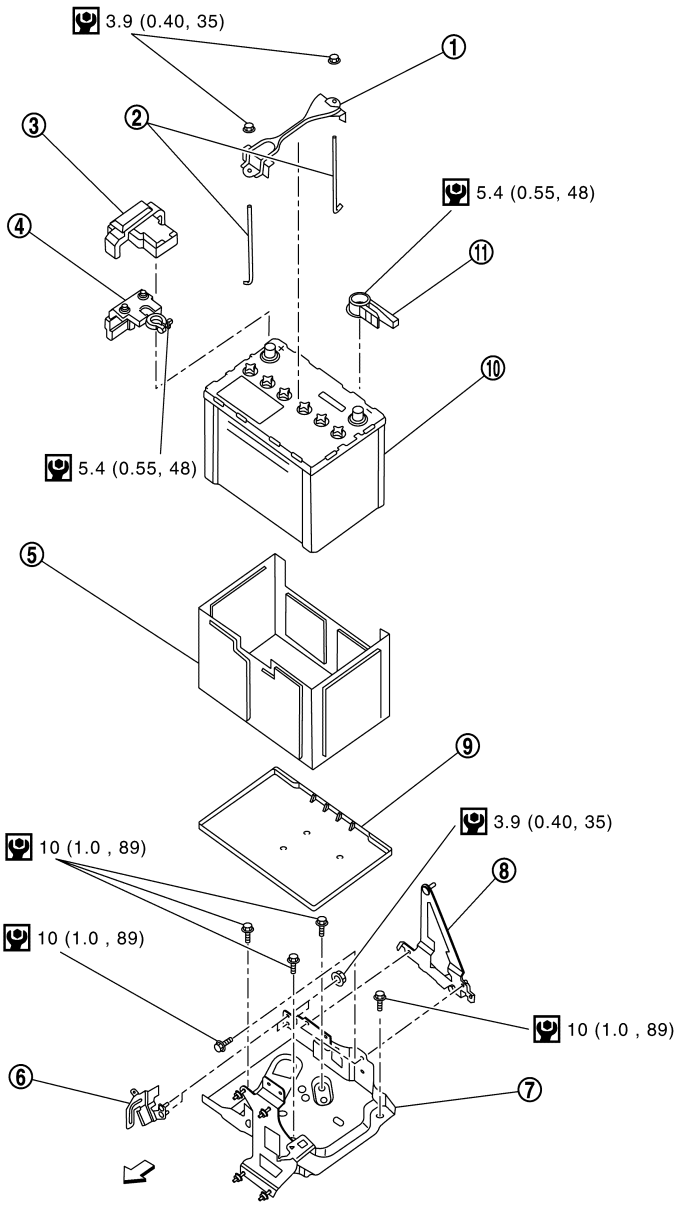
① Battery fix frame
② Battery fix rod
③ Battery positive terminal cover
④ Battery terminal with fusible link
⑤ Battery cover
⑥ Battery tray harness clamp
⑦ Battery tray
⑧ TCM mounting bracket
⑨ Battery under cover
⑩ Battery
⑪ Battery negative terminal

: N·m (kg-m, in-lb)

⇦ : Vehicle front

QR25DE engine models

SEC. 226•240•244



① Battery fix frame
② Battery fix rod
③ Battery positive terminal cover
④ Battery terminal with fusible link
⑤ Battery cover
⑥ Battery tray harness clamp

⑦ Battery tray ⑧ TCM mounting bracket ⑨ Battery under cover
⑩ Battery ⑪ Battery negative terminal
: N·m (kg-m, in-lb)
: Vehicle front

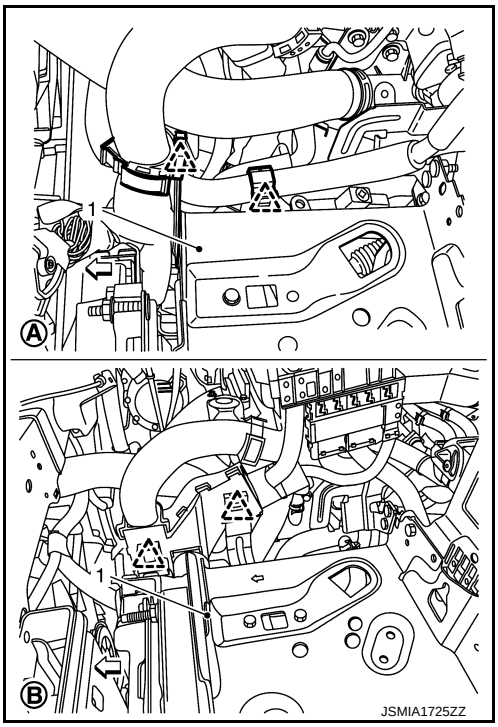
EXCEPT FOR R9M : Removal and Installation

INFOID:0000000010709239

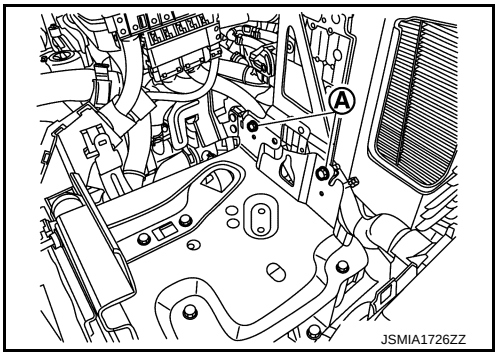
REMOVAL

1. Remove battery. Refer to : PG-142, "EXCEPT FOR R9M : Removal and Installation".
2. Remove air duct. Refer to : EM-31, "Removal and Installation" (MR20DD engine models) or EM-175, "Removal and Installation" (QR25DE engine models).
3. Remove battery tray under cover.
4. Remove barometric pressure sensor. (If equipped)
5. Disengage wiring harness fixing pawls from battery tray.

Ⓐ : MR20DD engine models
Ⓑ : QR25DE engine models
: QR25DE engine models
: Vehicle front

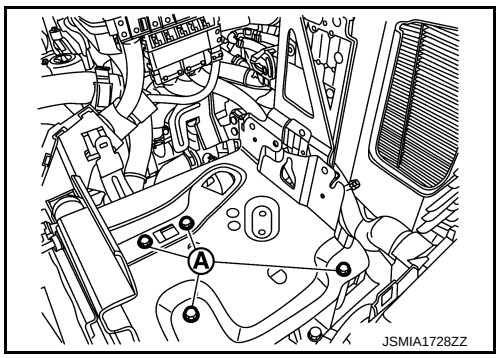


6. Remove TCM mounting bolts Ⓐ from battery tray.



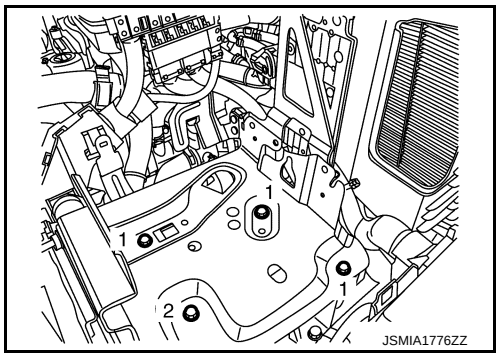
7. Remove ECM. Refer to : EC-430, "Removal and Installation" (MR20DD engine models) or EC-806, "Removal and Installation" (QR25DE engine models).

8. Remove battery tray mounting bolts Ⓐ.

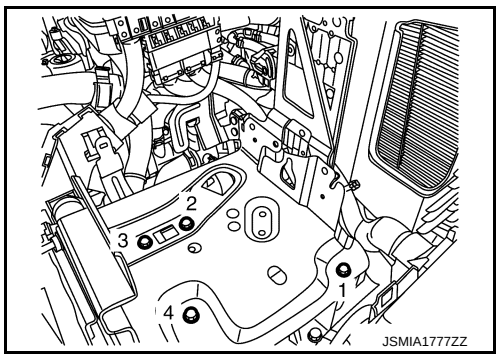


INSTALLATION

1. Install bolts to battery tray.
   (MR20DD engine models)
   - Temporarily tighten bolts 1.
   - Tighten bolt 2 to the specified torque.
   - Tighten bolts 1 to the specified torque.



   (QR25DE engine models)
   - Temporarily tighten bolt 1.
   - Tighten bolts to the specified torque in the order of 2→3→4.
   - Tighten bolt 1 to the specified torque.

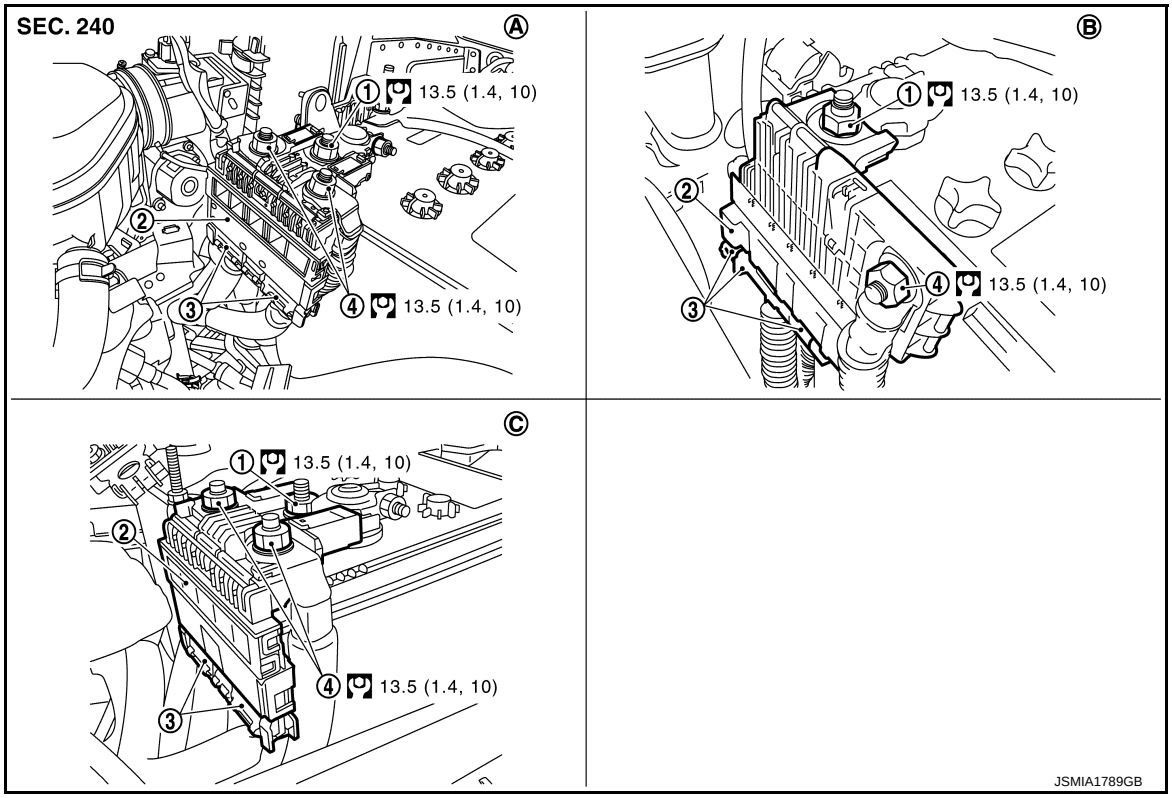


2. Install in the reverse order of removal.

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:0000000010709240



① : Fusible link holder mounting nut ② : Battery terminal with fusible link ③ : Harness connector

④ : Harness mounting nut

Ⓐ : MR20DD engine models

Ⓑ : QR25DE engine models

Ⓒ : R9M engine models

: N·m (kg-m, ft-lb)

Removal and Installation

INFOID:0000000010709241

REMOVAL

1. Disconnect the battery cable from the negative terminal. Refer to : PG-138, "R9M : Exploded View" (R9M engine models) or PG-140, "EXCEPT FOR R9M : Exploded View" (except for R9M engine models).
   CAUTION:
   To prevent damage to the parts, 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. Refer to PG-138, "R9M : Exploded View" (R9M engine models) or PG-140, "EXCEPT FOR R9M : Exploded View" (except for R9M engine models).
4. Remove harness mounting nut and battery terminal with fusible link mounting nut.
5. Disconnect harness connector and remove battery terminal with fusible link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

To prevent damage to the parts, connect the battery cable to the positive terminal first.

BATTERY CURRENT SENSOR

R9M

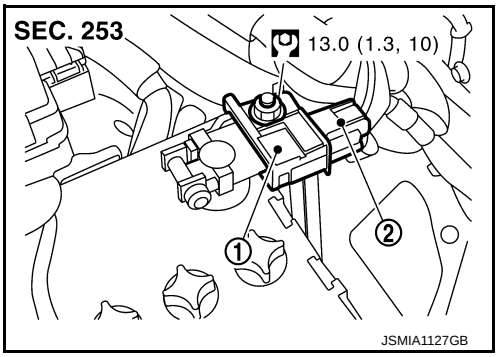
R9M : Exploded View

INFOID:0000000010713257

① : Battery current sensor
(With battery temperature sensor)

② : Harness connector

: N·m (kg-m, ft-lb)



R9M : Removal and Installation

INFOID:0000000010713258

REMOVAL

1. Disconnect the battery cable from the negative terminal. Refer to PG-138, "R9M : Exploded View".
2. Disconnect the battery current sensor connector.
3. Remove the battery current sensor mounting nut.
4. Remove the battery current sensor from battery cable.

INSTALLATION

Install in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:0000000010713252

R9M

Type		S-95
20 hour rate capacity	[V – Ah]	12 – 75
Cold cranking current (For reference value)	[A]	660

CAUTION:

It is mandatory to always use a battery designed for the stop/start system. Failure to do this causes early deterioration or system malfunction.

EXCEPT FOR R9M

Type		80D23L
20 hour rate capacity	[V – Ah]	12 – 62
Cold cranking current (For reference value)	[A]	582