SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

PRECAUTION 3

PRECAUTIONS 3
Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER" 3
Precautions for Removing Battery Terminal 3

SYSTEM DESCRIPTION 5

COMPONENT PARTS 5
Battery 5
Circuit Breaker 5
Harness Connector 5
Standardized Relay 8

WIRING DIAGRAM 11

POWER SUPPLY ROUTING CIRCUIT 11
Wiring Diagram - BATTERY POWER SUPPLY - 11
Wiring Diagram - BATTERY POWER SUPPLY FUSIBLE LINK No. M - 45
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 8 - 46
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 28 - 47
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 52 - 48
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 54 - 50
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 55 - 51
Wiring Diagram - ACCESSORY POWER SUPPLY - 52
Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 14 - 58
Wiring Diagram - IGNITION POWER SUPPLY - 59
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 1 - 82
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 4 - 83
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 63 - 85
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 67 - 86
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 73 - 87
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 74 - 88

OPTION HARNESS 89
Option Harness 89
Option Harness (Front Fog Lamp) 92
Option Harness (Rear Fog Lamp) 96
Option Harness (Illumination) 100

FUSE BLOCK - JUNCTION BOX (J/B) 104
Fuse, Connector and Terminal Arrangement 104

FUSE, FUSIBLE LINK AND RELAY BOX 107
Fuse and Fusible Link Arrangement (Gasilone Engine) 107
Fuse and Fusible Link Arrangement (Diesel Engine) 108

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) 109
Fuse, Connector and Terminal Arrangement 109

HARNESS LAYOUT 110

LHD 110
LHD : Outline 110
LHD : Engine Room Harness 111
LHD : Engine Control Harness 113
LHD : Main Harness 118
LHD : Body Harness 119
LHD : Door Harness 121
LHD : Room Lamp Harness 127

RHD 127
RHD : Outline 128
RHD : Engine Room Harness 129

RHD : Engine Control Harness 131
RHD : Main Harness 136
RHD : Body Harness 137
RHD : Door Harness 139
RHD : Room Lamp Harness 145

BASIC INSPECTION 146

BATTERY INSPECTION 146
How to Handle Battery 146
Work Flow WITHOUT STOP/START SYSTEM 147
Work Flow WITH STOP/START SYSTEM 148

FUSE INSPECTION 149
How To Check 149

FUSIBLE LINK INSPECTION 153
How To Check 153

REMOVAL AND INSTALLATION 154

BATTERY 154
Exploded View 154
Removal and Installation 155

BATTERY TERMINAL WITH FUSIBLE LINK..156
Exploded View 156
Removal and Installation 156

BATTERY CURRENT SENSOR 157
Exploded View 157
Removal and Installation 157

SERVICE DATA AND SPECIFICATIONS (SDS) 158

SERVICE DATA AND SPECIFICATIONS (SDS) 158
Battery 158

PRECAUTION

PRECAUTIONS

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

INFOID:0000000010464052

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:

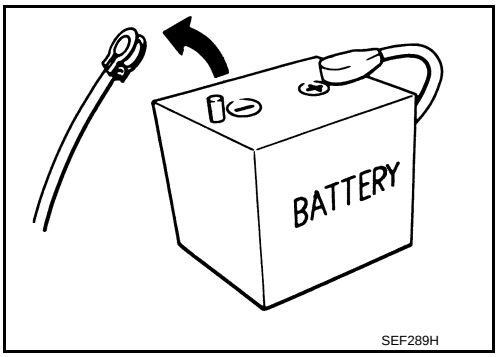
Always observe the following items for preventing accidental activation.

- **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:0000000010503765

- 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.



SEF289H

HOW TO DISCONNECT 12V BATTERY TERMINAL

Disconnect 12V battery terminal according to instruction described below.

1. Open the hood.
2. Turn ignition switch to the ON position.
3. Turn ignition switch to the OFF position with the driver side door opened.
4. Get out of the vehicle and close the driver side door.

5. 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.

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

Battery

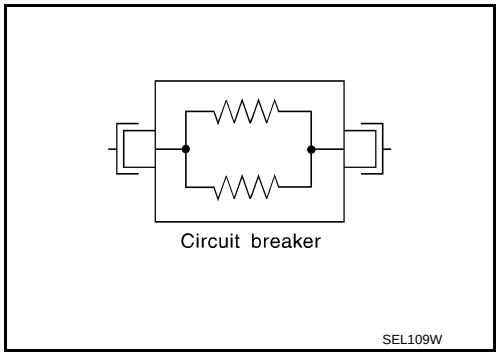
INFOID:0000000010464055

Type		L2	L3
20 hour rate capacity	[V – Ah]	12 – 60	12 – 70
Cold cranking current (For reference value)	[A]	510	720

Circuit Breaker

INFOID:0000000010464056

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:0000000010464057

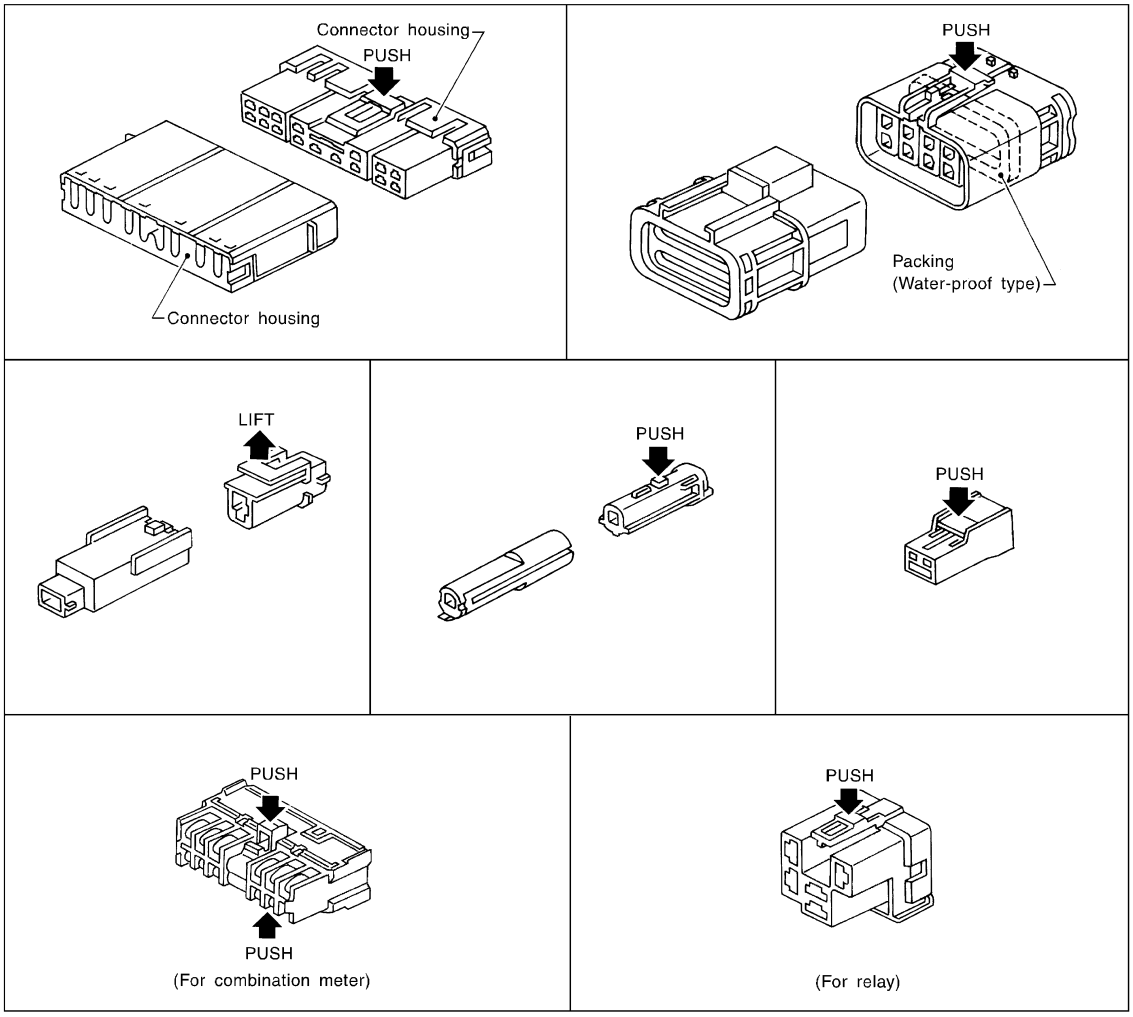
HARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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]



SEL769DA

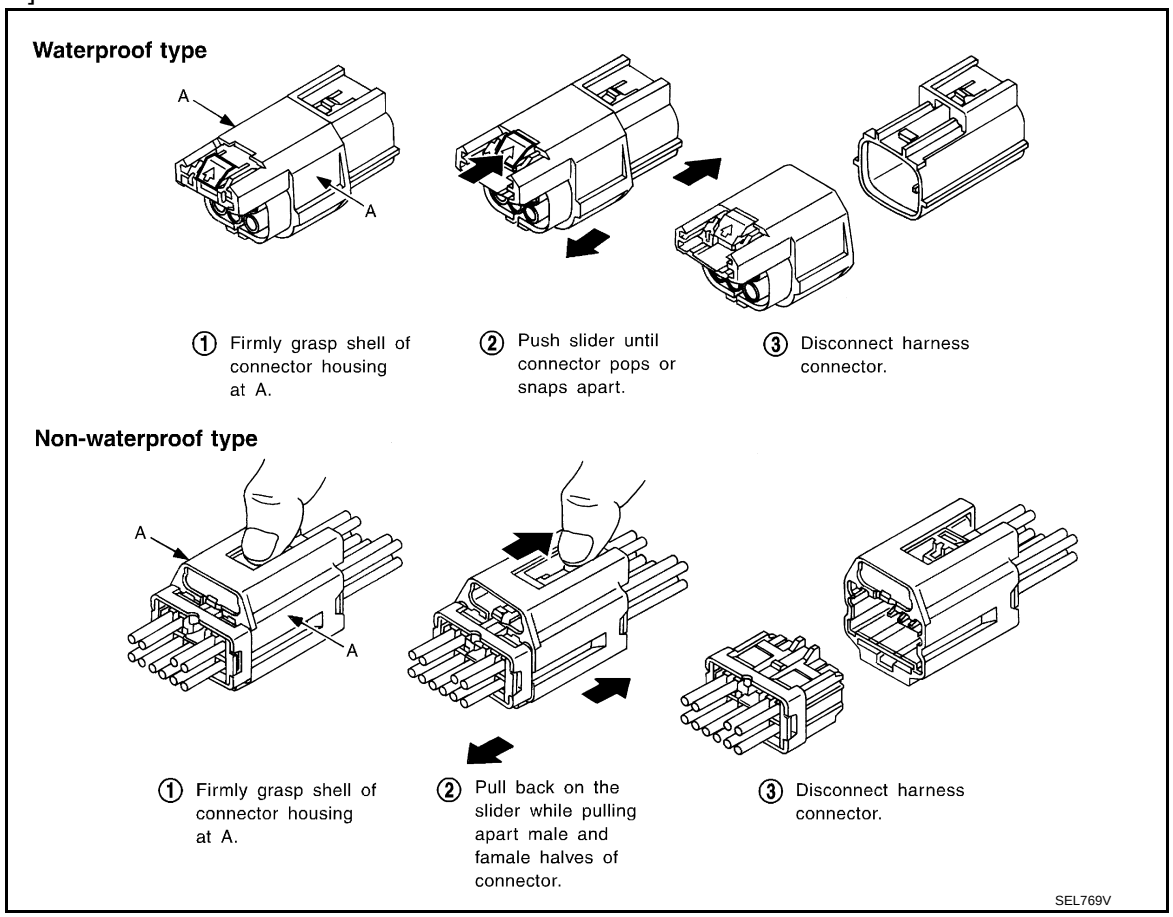
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

CAUTION:

- **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]

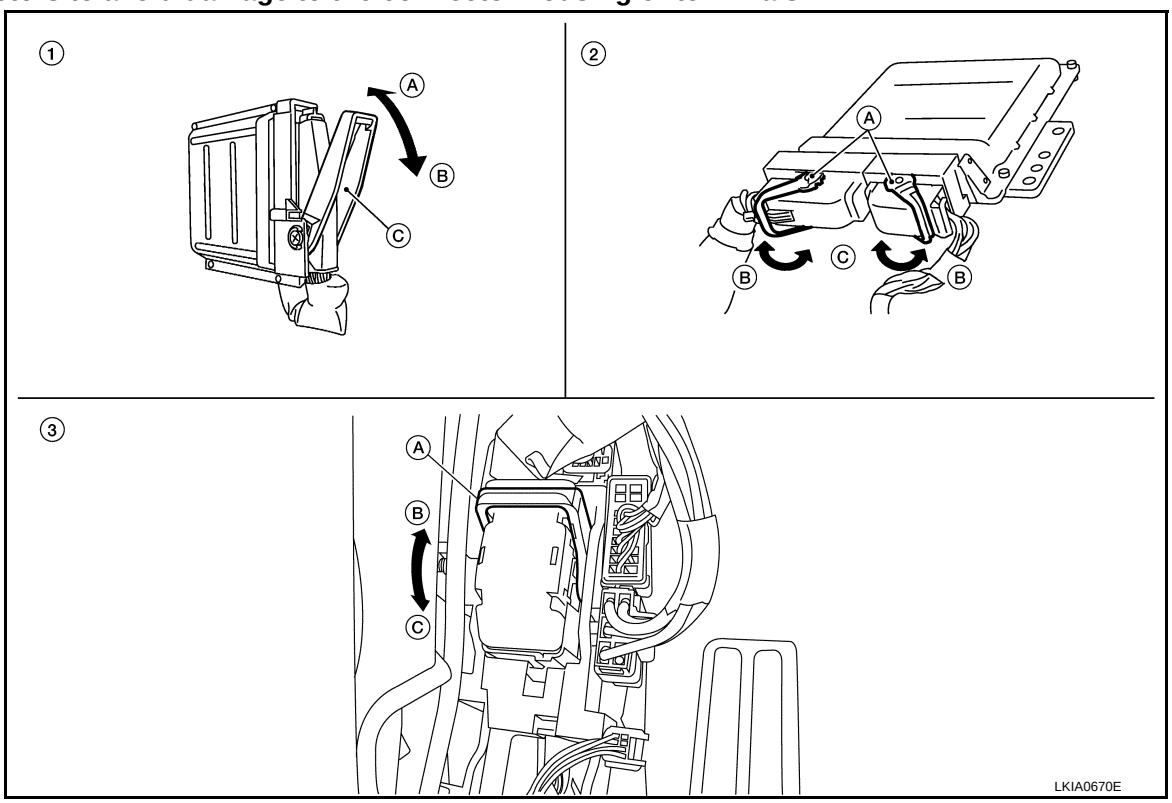


HARNESS CONNECTOR (LEVER LOCKING TYPE)

- 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

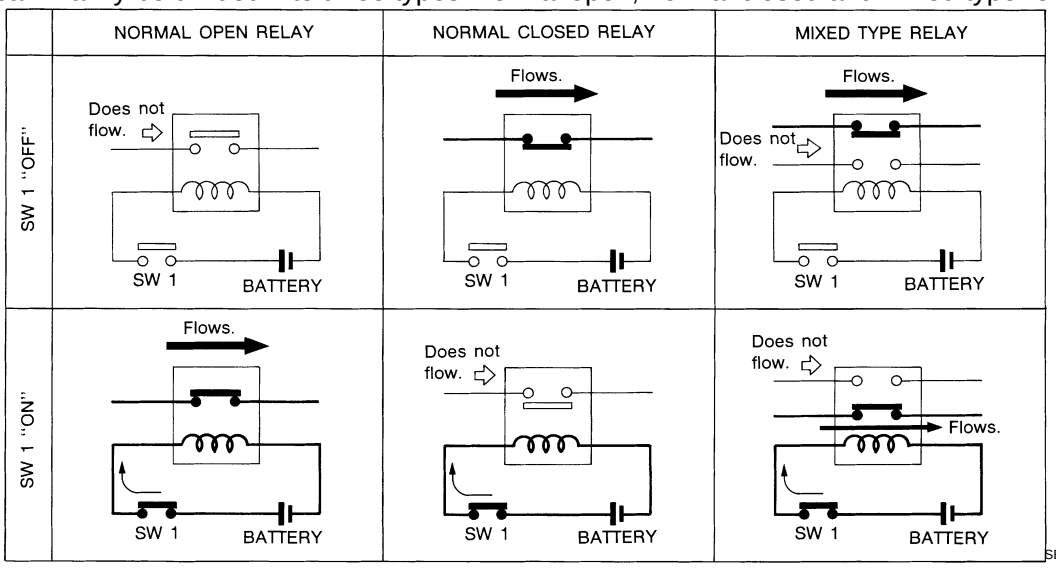
③ SMJ connector
- Ⓐ Lever
- Ⓑ Fasten
- Ⓒ Loosen

Standardized Relay

INFOID:0000000010464058

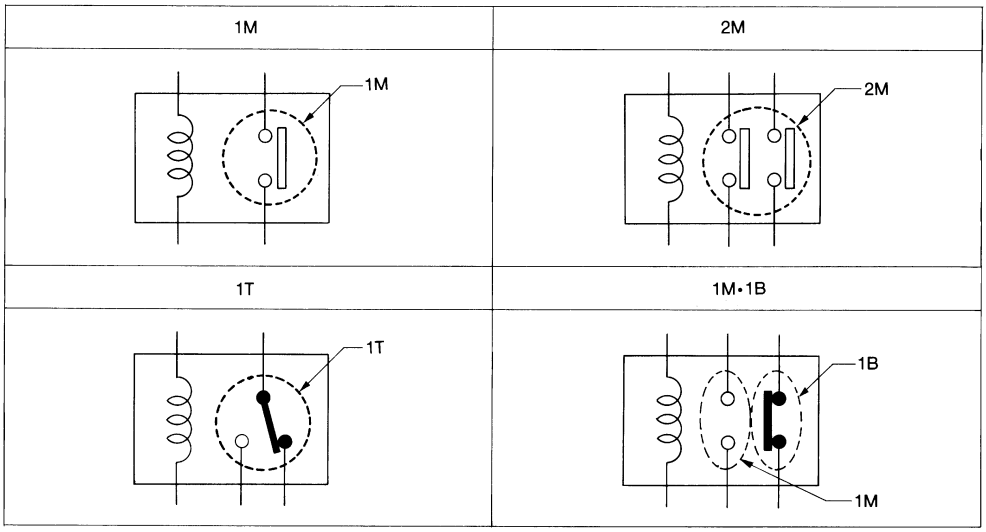
NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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

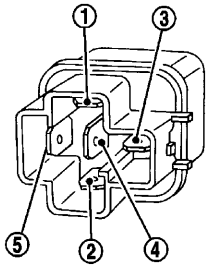
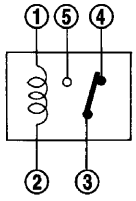
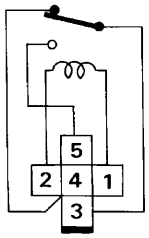
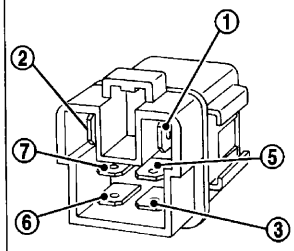
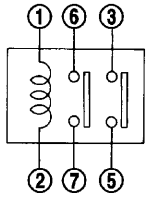
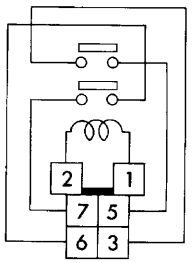
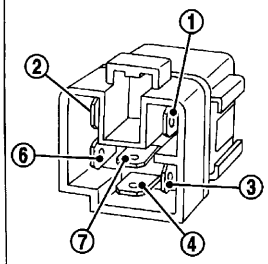
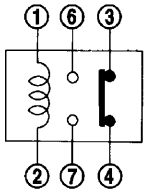
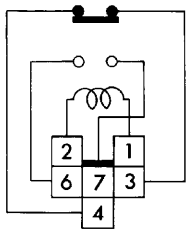
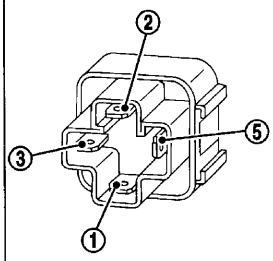
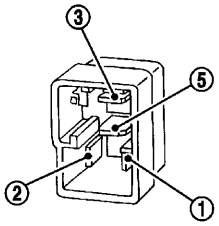
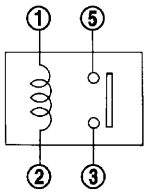
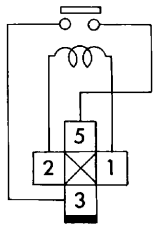
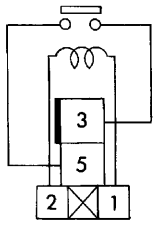


TYPE OF STANDARDIZED RELAYS

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



SEL882H

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

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

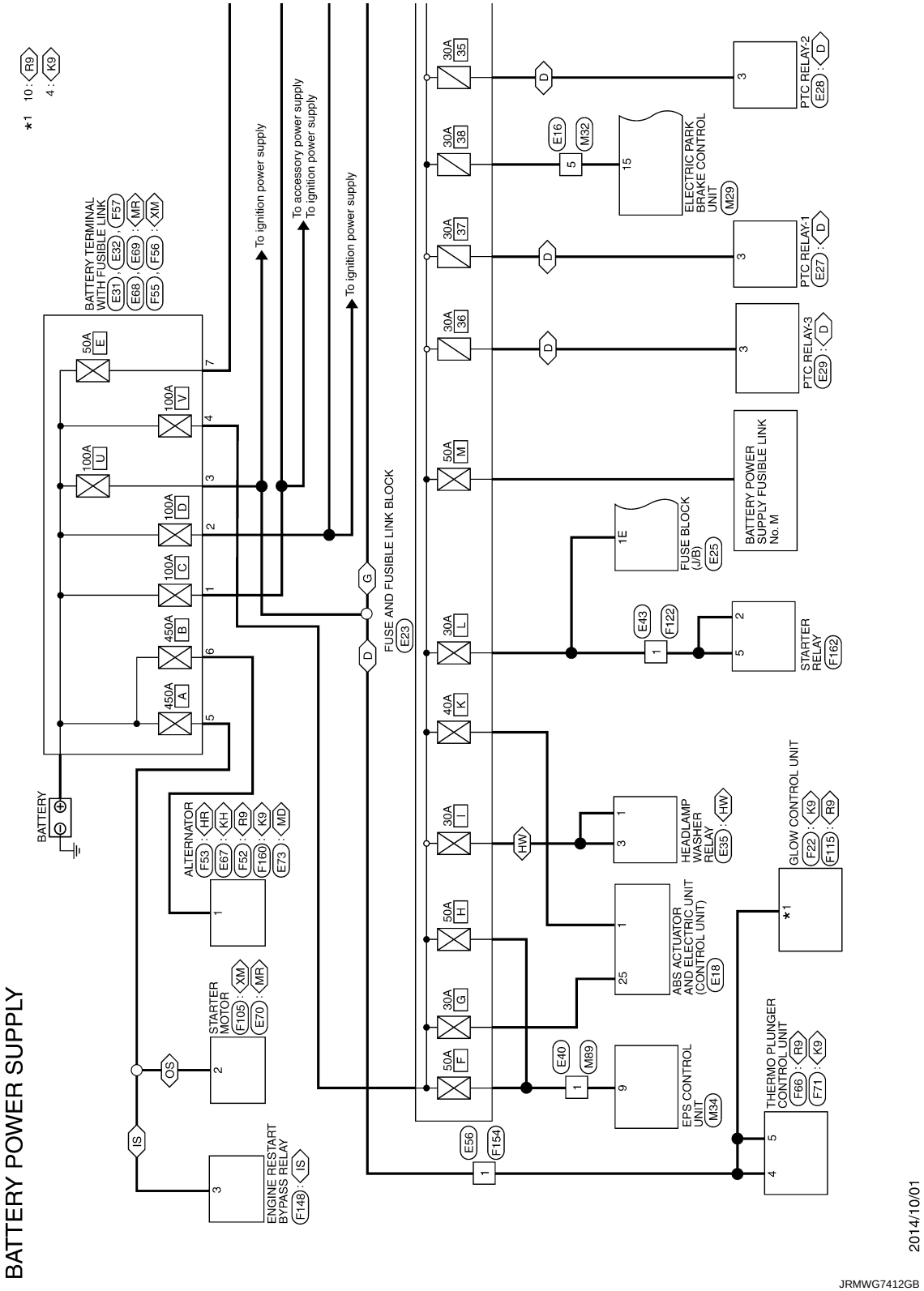
SEL188W

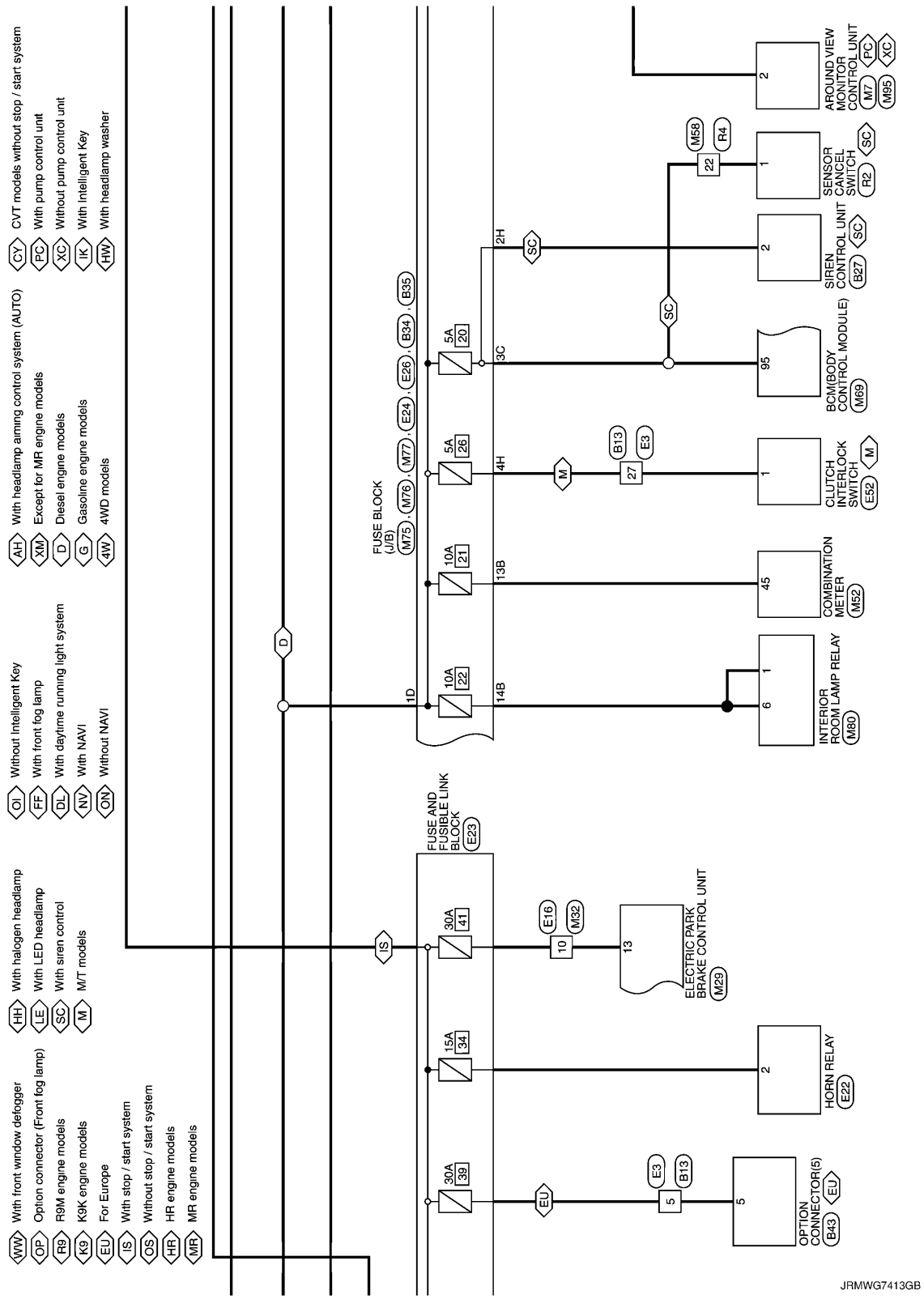
WIRING DIAGRAM

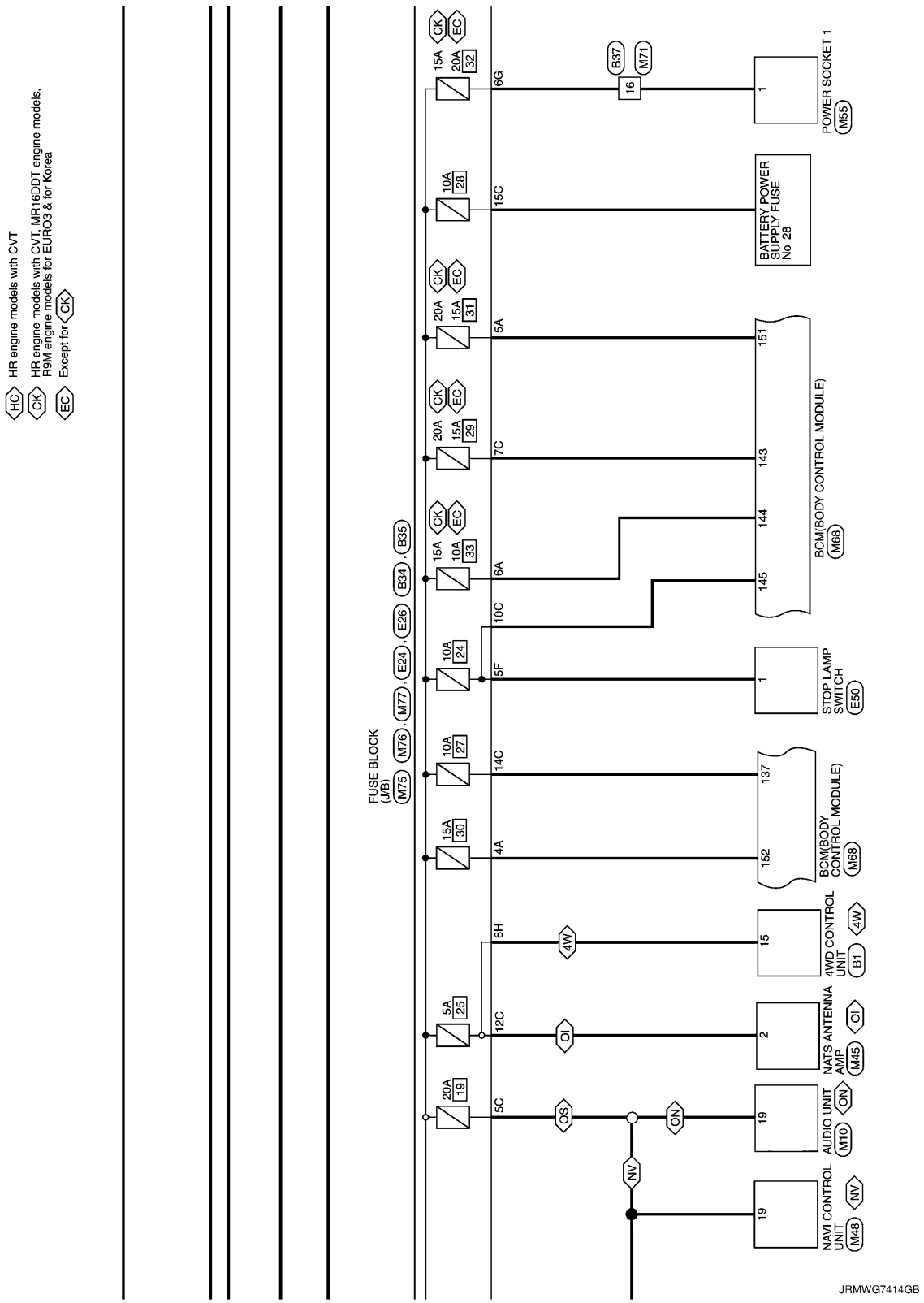
POWER SUPPLY ROUTING CIRCUIT

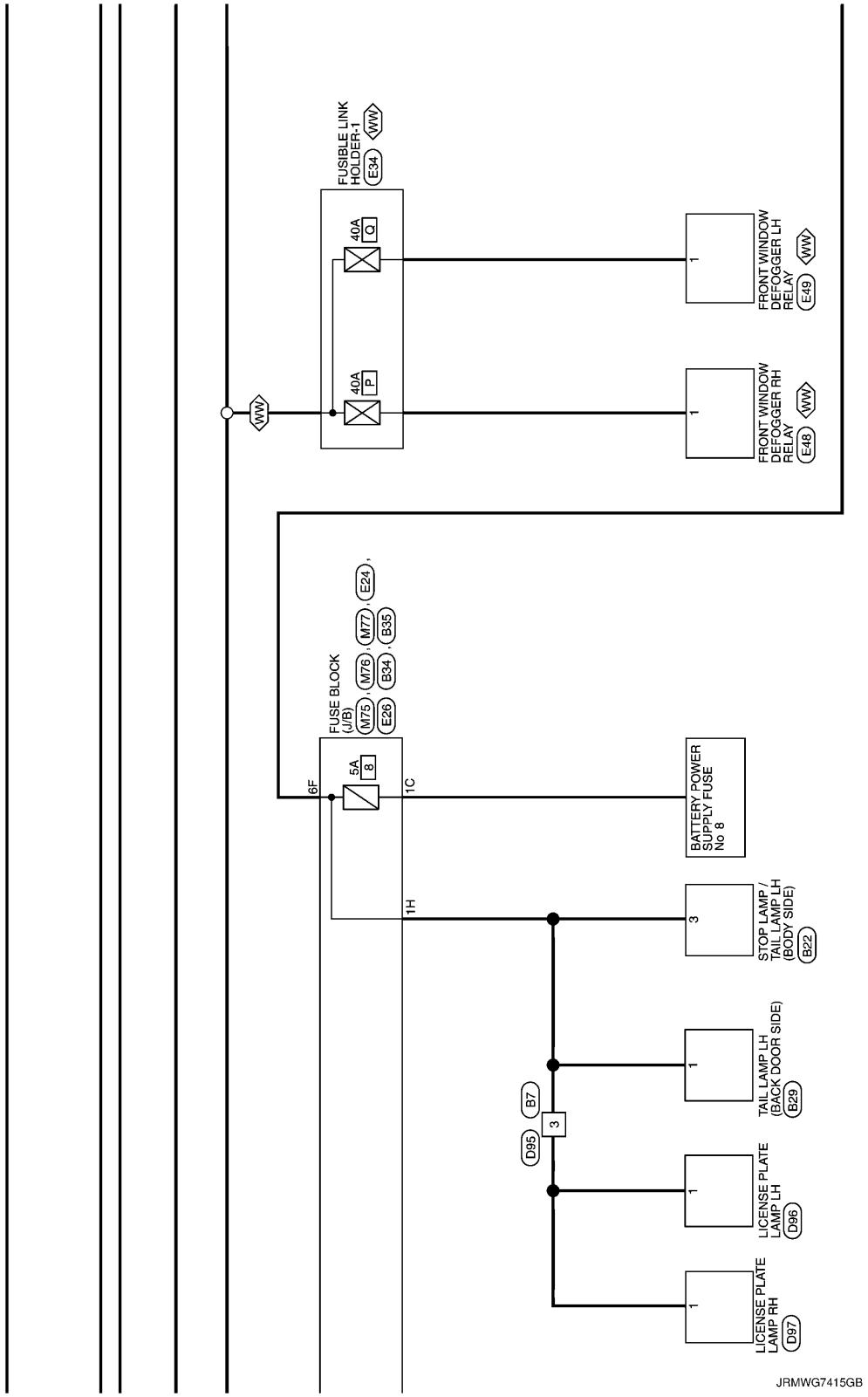
Wiring Diagram - BATTERY POWER SUPPLY -

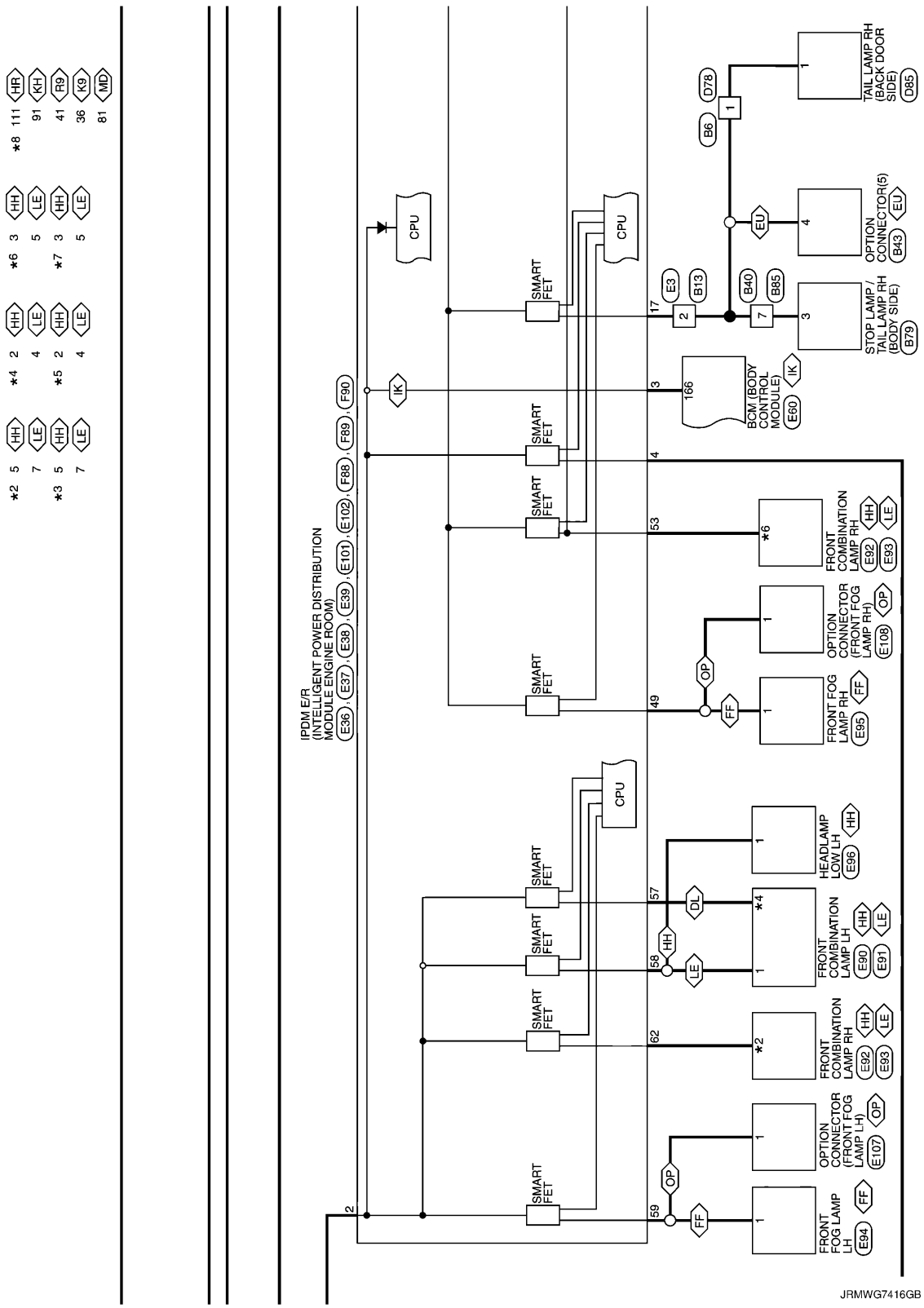
INFOID:0000000010464059

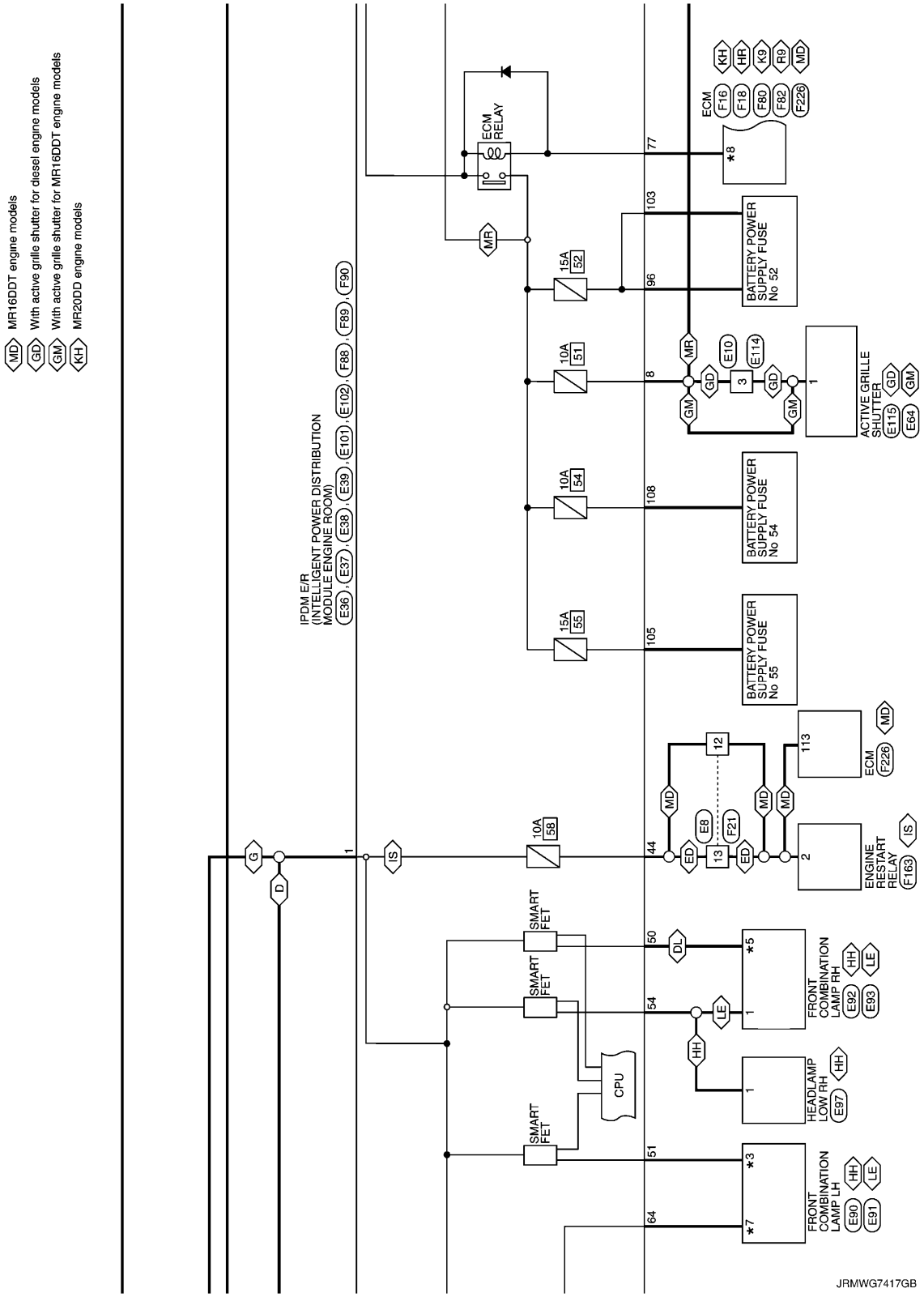


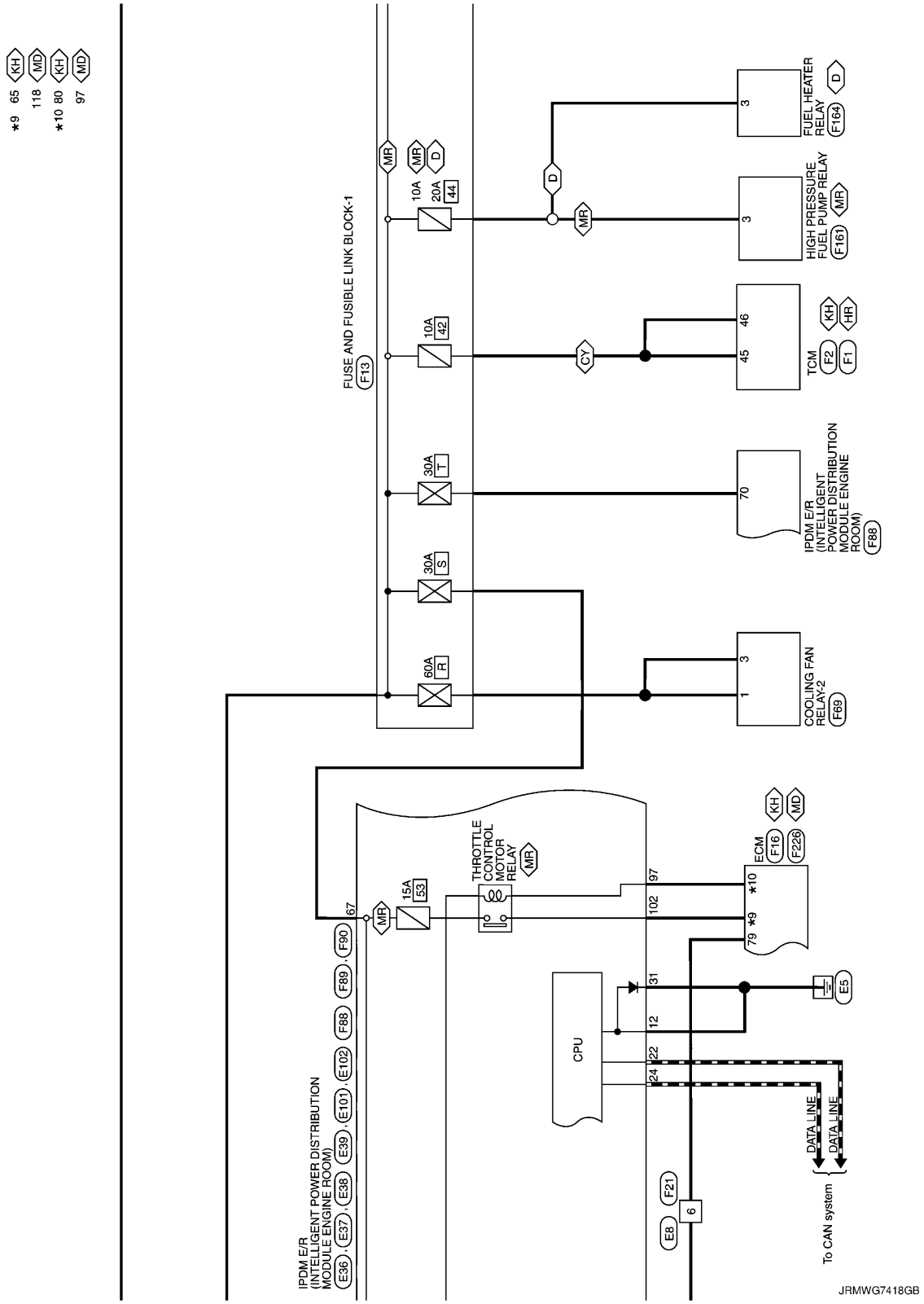

WW With front window defogger
OP Option connector (Front fog lamp)
R9 R9M engine models
K9 K9K engine models
EU For Europe
IS With stop / start system
OS Without stop / start system
HR HR engine models
MR MR engine models
HH With halogen headlamp
LE With LED headlamp
SC With siren control
M M/T models
OI Without Intelligent Key
FF With front fog lamp
DL With daytime running light system
NV With NAVI
ON Without NAVI
AH With headlamp aiming control system (AUTO)
XM Except for MR engine models
D Diesel engine models
G Gasoline engine models
4W 4WD models
CY CVT models without stop / start system
PC With pump control unit
XC Without pump control unit
IK With Intelligent Key
HW With headlamp washer
FUSE BLOCK (J/B)
M75 M76 M77 E24 E26 B34 B35
1D
10A 22
14B
10A 21
13B
5A 26
4H
5A 20
3C
2H
FUSE AND FUSIBLE LINK BLOCK E23
30A 41
15A 34
30A 39
E16 10 M32
13
ELECTRIC PARK BRAKE CONTROL UNIT M23
HORN RELAY E22
OPTION CONNECTOR(5) B43
E3 B13 5
INTERIOR ROOM LAMP RELAY M80
COMBINATION METER M52
CLUTCH INTERLOCK SWITCH E52
B13 27 E3
BCM(BODY CONTROL MODULE) M69
SIREN CONTROL UNIT B27
M58 22 R4
SENSOR CANCEL SWITCH R2
AROUND VIEW MONITOR CONTROL UNIT M7 M95
JRMWG7413GB

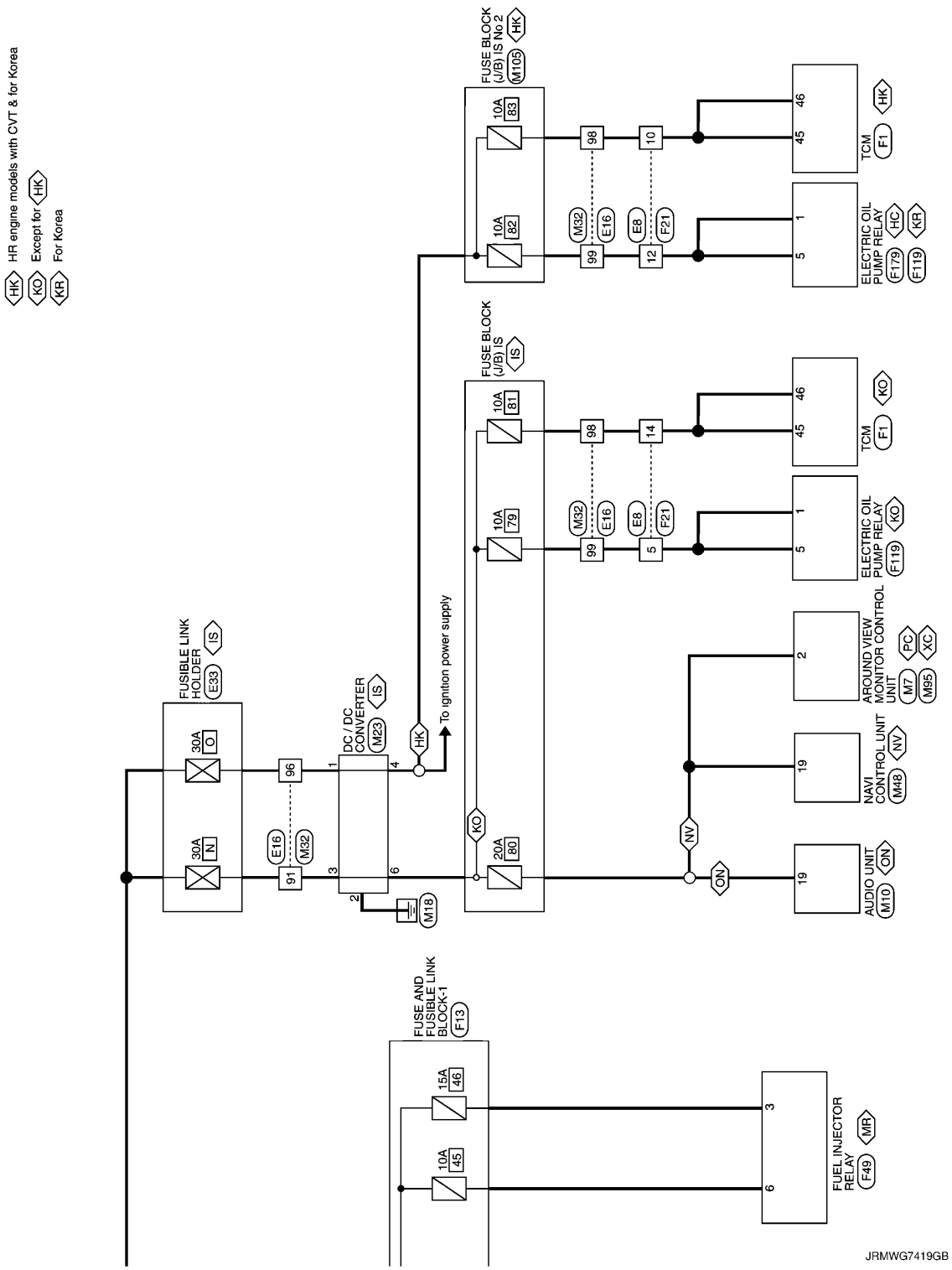

HC HR engine models with CVT
CK HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea
EC Except for CK
FUSE BLOCK (J/B) M75 M76 M77 E24 E26 B34 B35
BATTERY POWER SUPPLY FUSE No. 28
POWER SOCKET 1 M55
STOP LAMP SWITCH E50
BCM(BODY CONTROL MODULE) M68
4WD CONTROL UNIT B1
NATS ANTENNA AMP M45
AUDIO UNIT M10
NAVI CONTROL UNIT M48
JRMWG7414GB

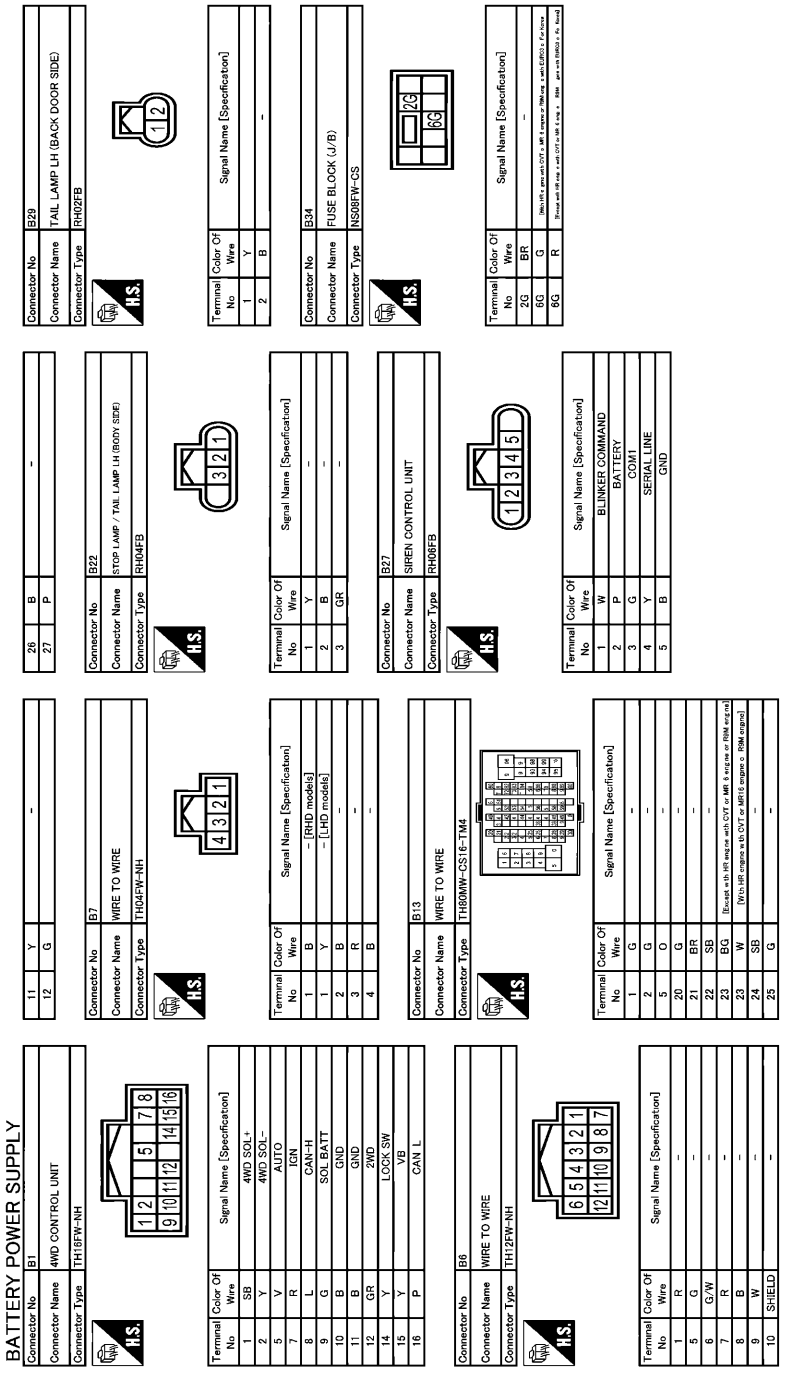

FUSIBLE LINK HOLDER-1
WW
E34
40A Q
40A P
WW
FRONT WINDOW DEFOGGER LH RELAY
E49
FRONT WINDOW DEFOGGER RH RELAY
E48
FUSE BLOCK (J/B)
M75, M76, M77, E24, E26, B34, B35
5A 8
6F
1C
1H
BATTERY POWER SUPPLY FUSE No 8
STOP LAMP / TAIL LAMP LH (BODY SIDE)
B22
TAIL LAMP LH (BACK DOOR SIDE)
B29
LICENSE PLATE LAMP LH
D96
LICENSE PLATE LAMP RH
D97
D95
B7
3
JRMWG7415GB


IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E36, E37, E38, E39, E101, E102, F88, F89, F90
CPU
SMART FET
IK
BCM (BODY CONTROL MODULE)
E60
166
TAIL LAMP RH (BACK DOOR SIDE)
D85
D78
B6
OPTION CONNECTOR(5)
B43
EU
STOP LAMP / TAIL LAMP RH (BODY SIDE)
B79
E3
B13
B40
B85
FRONT COMBINATION LAMP RH
E92
E93
FRONT FOG LAMP RH
E95
OPTION CONNECTOR (FRONT FOG LAMP RH)
E108
OP
FF
HEADLAMP LOW LH
E96
FRONT COMBINATION LAMP LH
E90
E91
DL
HH
LE
OPTION CONNECTOR (FRONT FOG LAMP LH)
E107
FRONT FOG LAMP LH
E94
JRMWG7416GB

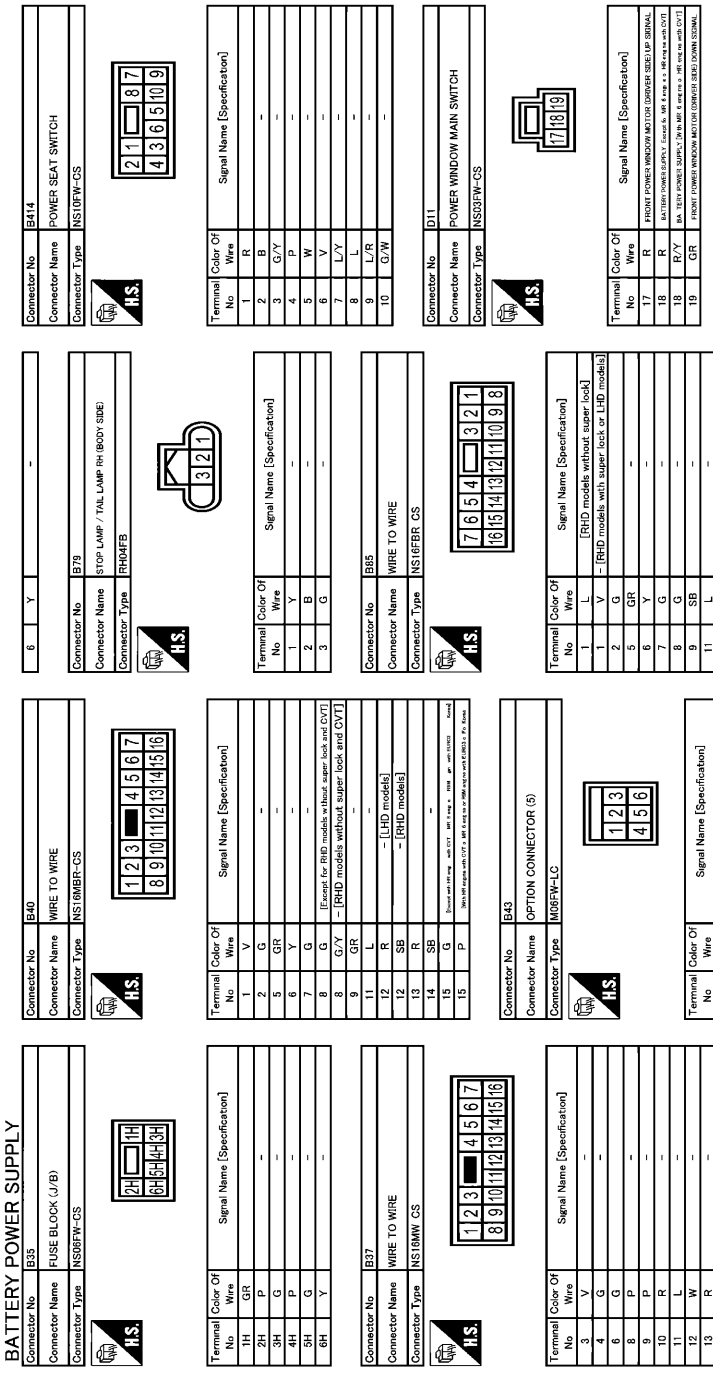

MD MR16DDT engine models
GD With active grille shutter for diesel engine models
GM With active grille shutter for MR16DDT engine models
KH MR20DD engine models
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
(E36), (E37), (E38), (E39), (E101), (E102), (F88), (F89), (F90)
ECM RELAY
BATTERY POWER SUPPLY FUSE No 52
BATTERY POWER SUPPLY FUSE No 54
BATTERY POWER SUPPLY FUSE No 55
ACTIVE GRILLE SHUTTER
(E115) (E64)
ECM
(F16) (F18) (F80) (F82) (F226)
ECM
(F226)
ENGINE RESTART RELAY
(F163)
SMART FET
CPU
FRONT COMBINATION LAMP RH
(E92) (E93)
HEADLAMP LOW RH
(E97)
FRONT COMBINATION LAMP LH
(E90) (E91)
JRMWG7417GB


FUSE AND FUSIBLE LINK BLOCK-1
F13
10A 20A 44
10A 42
30A T
30A S
60A R
FUEL HEATER RELAY
F164
HIGH PRESSURE FUEL PUMP RELAY
F161
TCM
F2
F1
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
F88
COOLING FAN RELAY-2
F69
THROTTLE CONTROL MOTOR RELAY
15A 53
ECM
F16
F229
CPU
E5
DATA LINE
To CAN system
E8
F21
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E36, E37, E38, E39, E101, E102, F88, F89, F90
JRMWG7418GB

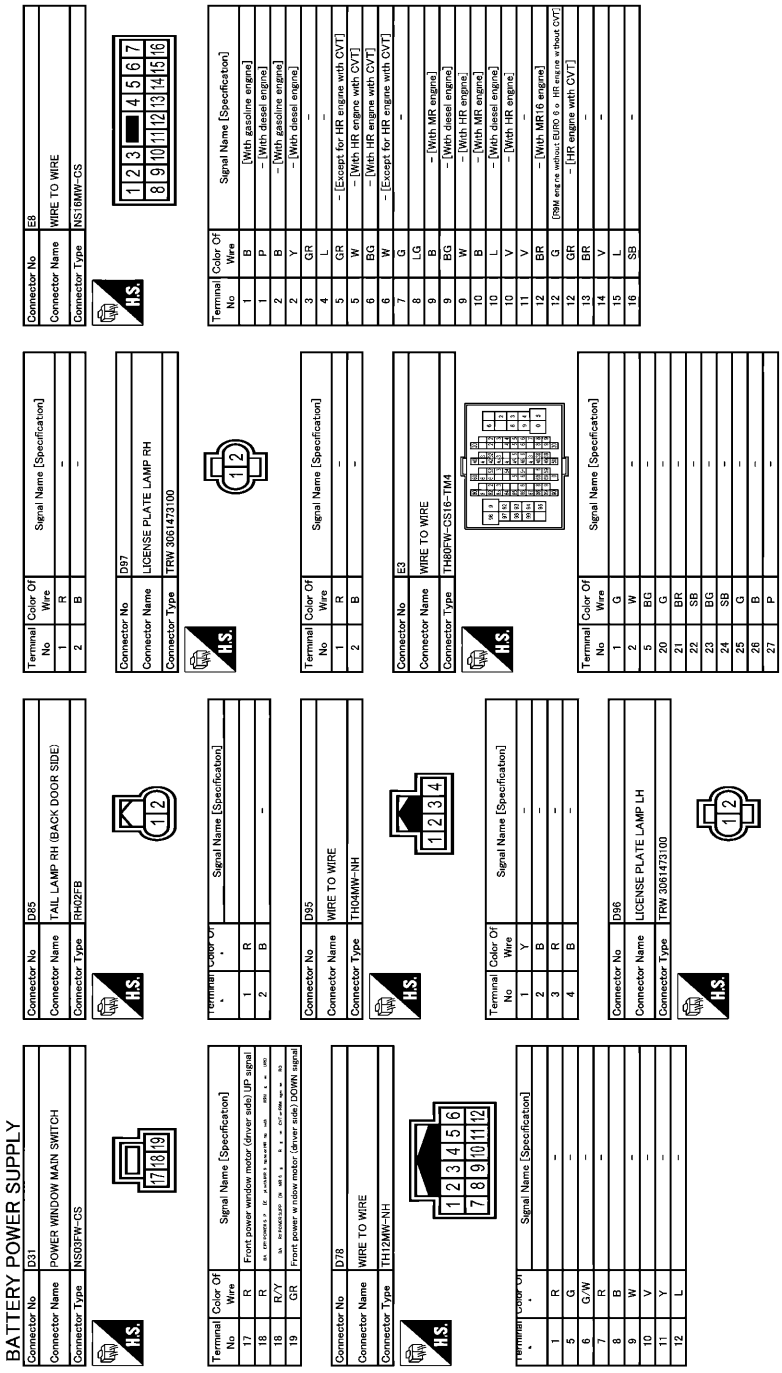

HR engine models with CVT & for Korea
HK Except for
KO For Korea
KR
FUSE BLOCK (J/B) IS No 2
HK
M105
10A 83
10A 82
98
99
M32
E16
10
12
E8
F21
46
45
1
5
TCM
F1
HK
ELECTRIC OIL PUMP RELAY
F179
HC
F119
KR
FUSE BLOCK (J/B) IS
IS
10A 81
10A 79
20A 80
14
5
KO
TCM
F1
KO
ELECTRIC OIL PUMP RELAY
F119
KO
AROUND VIEW MONITOR CONTROL UNIT
M7
M95
PC
XC
2
NAVI CONTROL UNIT
M48
NV
19
AUDIO UNIT
M10
ON
FUSIBLE LINK HOLDER
E33
IS
30A O
30A N
96
91
E16
M32
DC / DC CONVERTER
IS
M23
1
2
3
4
6
M18
To ignition power supply
FUSE AND FUSIBLE LINK BLOCK-1
F13
15A 46
10A 45
FUEL INJECTOR RELAY
F49
MR
3
6
JRMWG7419GB



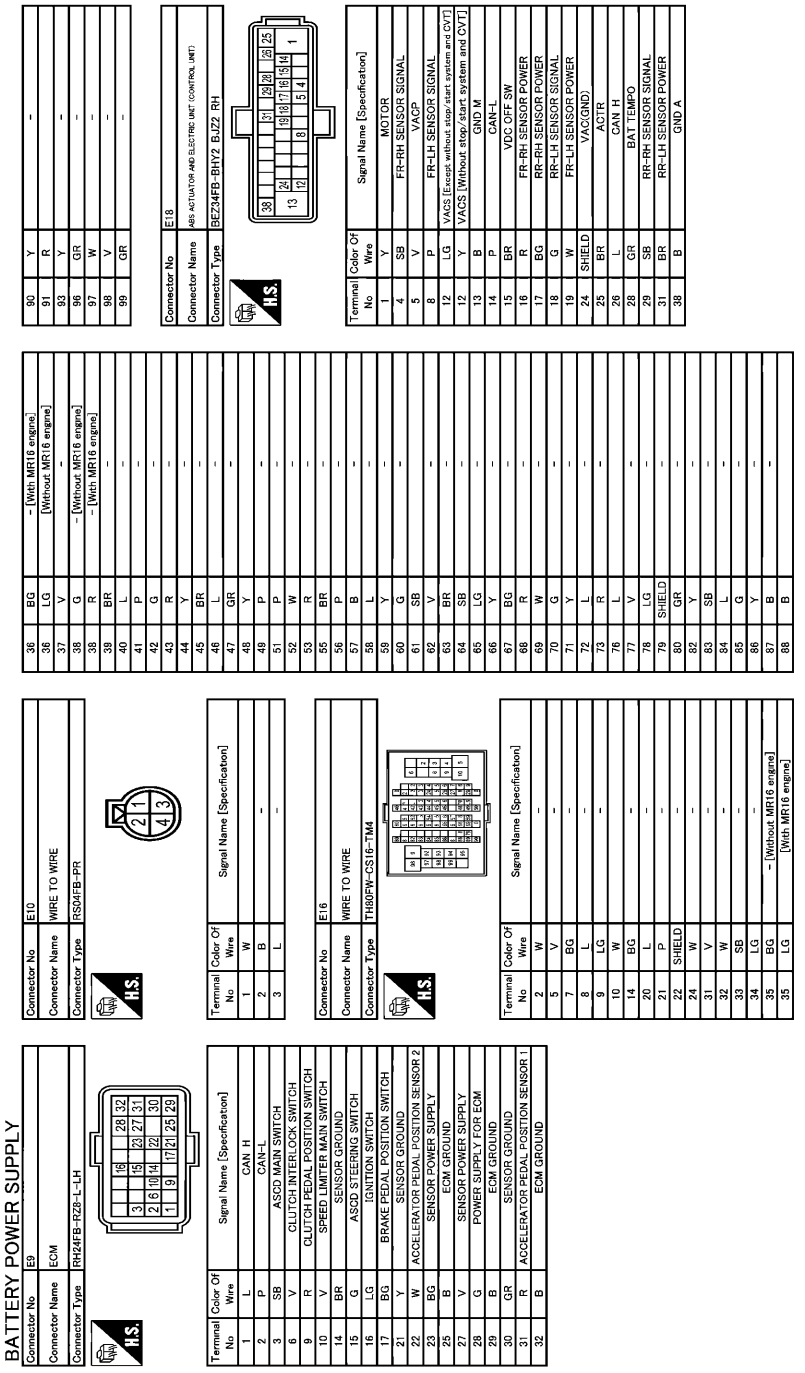
JRMWG7420GB



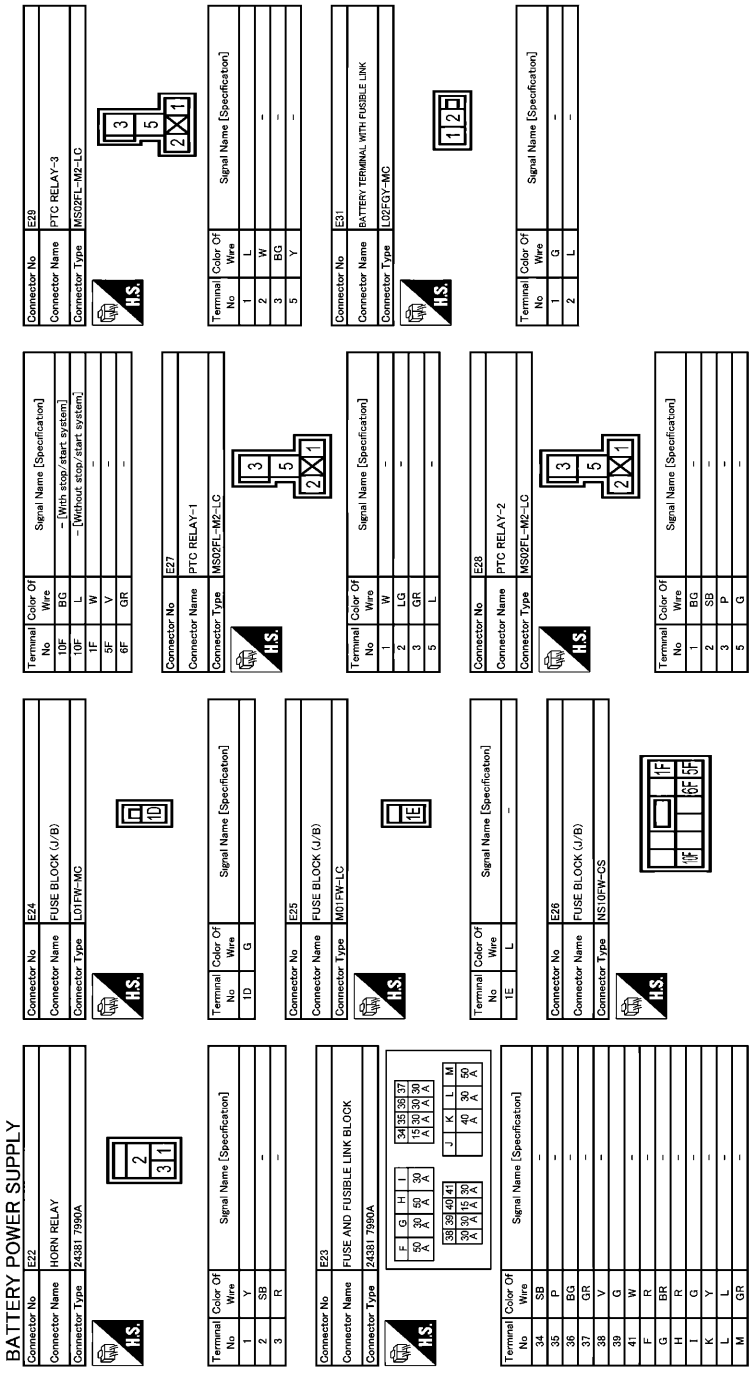
JRMWG7421GB



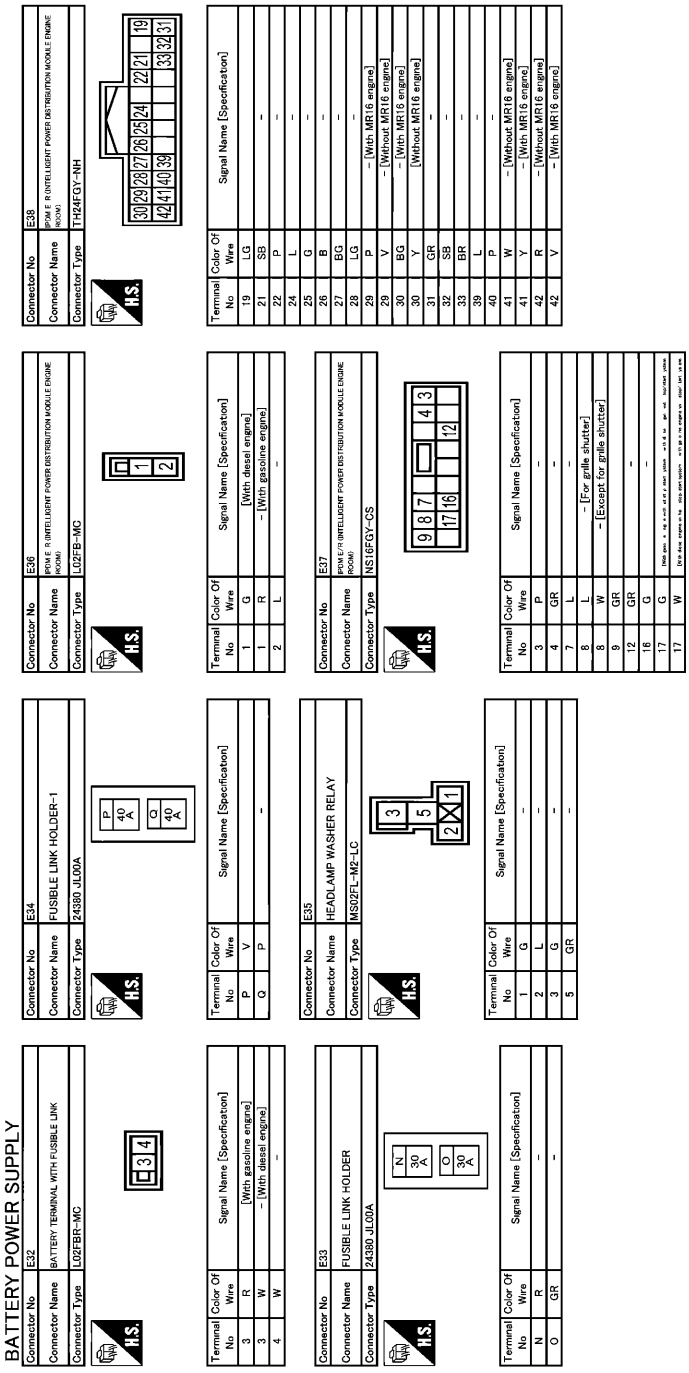
JRMWG7422GB



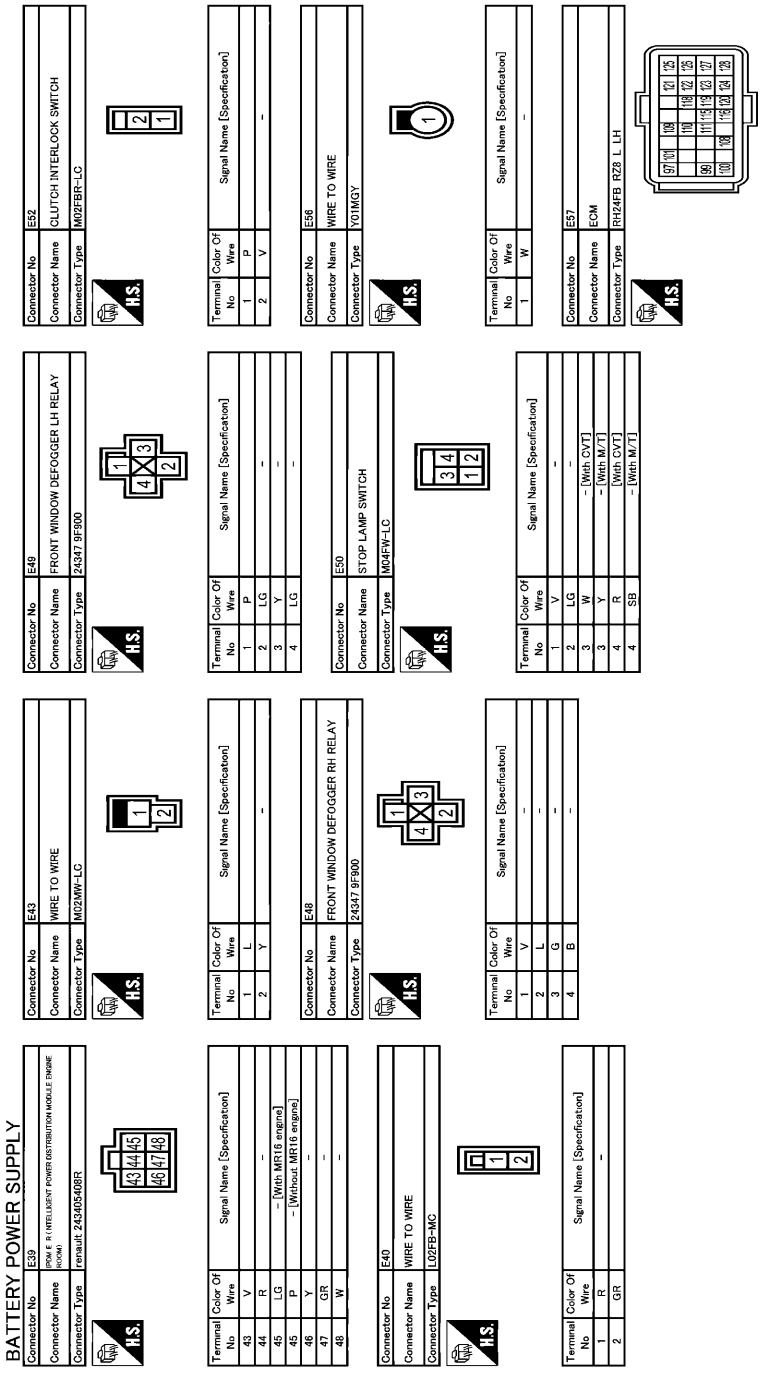
JRMWG7423GB



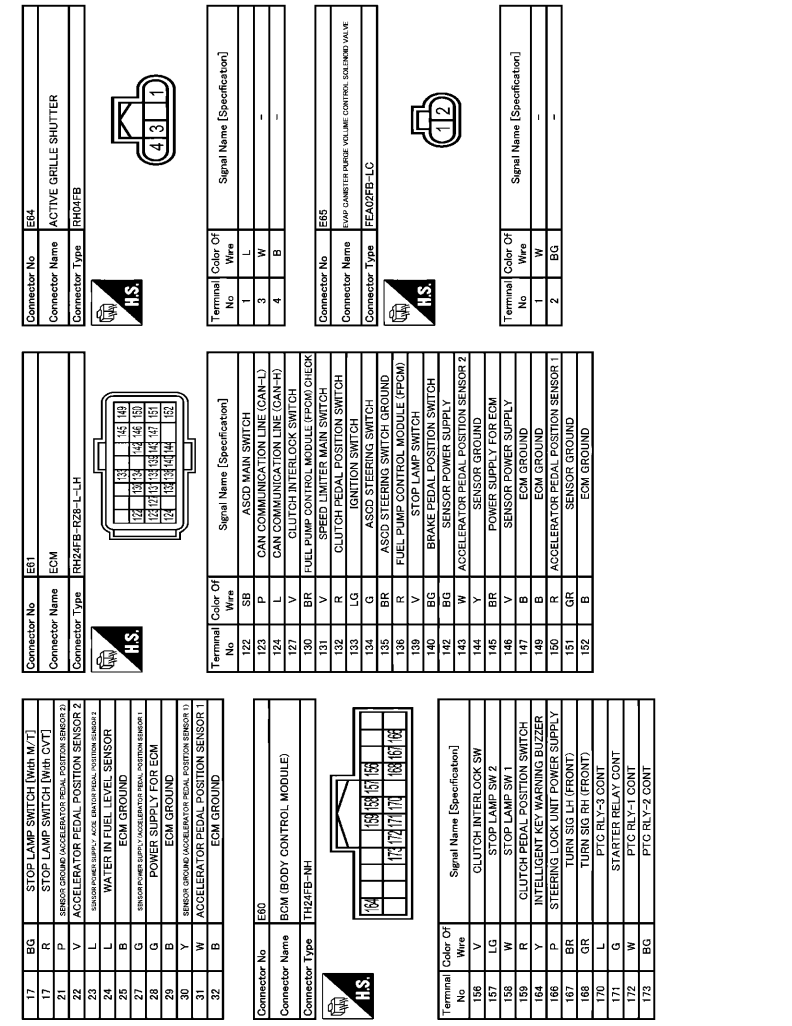
JRMWG7424GB



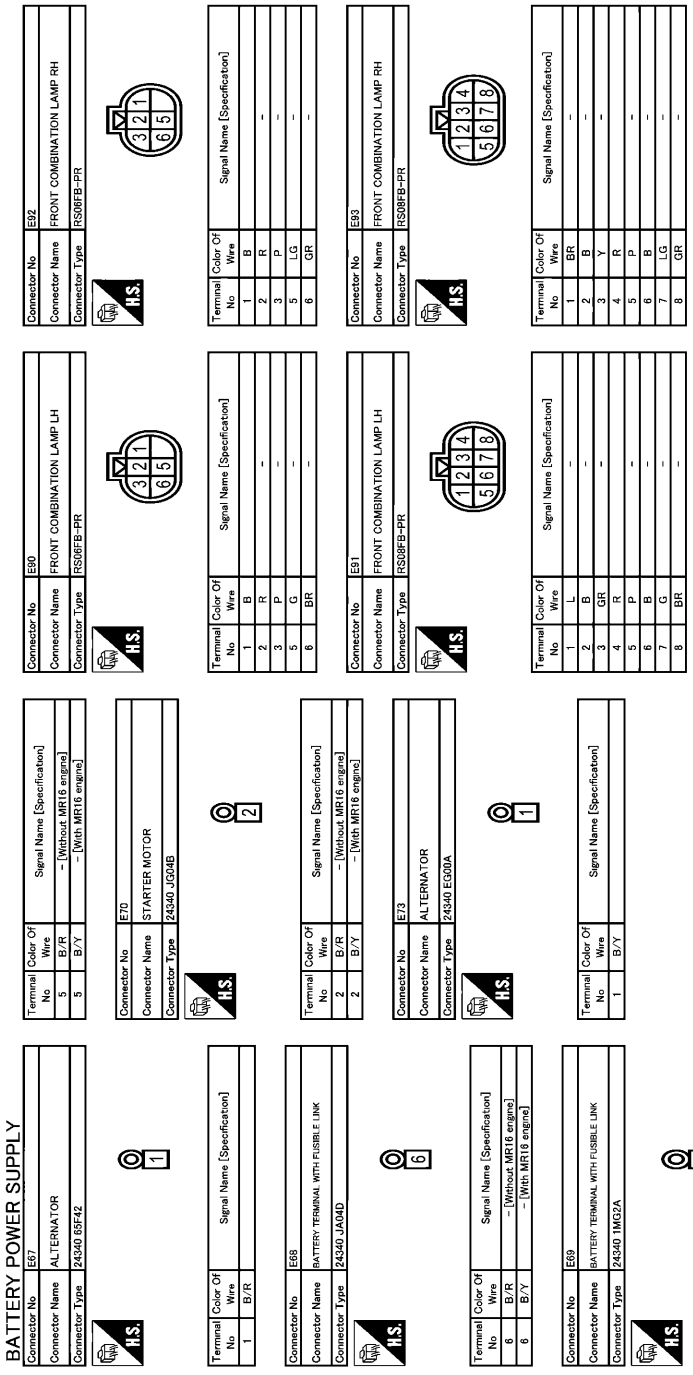
JRMWG7425GB



JRMWG7426GB



JRMWG7427GB



JRMWG7428GB

BATTERY POWER SUPPLY

Connector No	E94
Connector Name	FRONT FOG LAMP LH
Connector Type	FHZ02FB

H.S.

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

Connector No	E95
Connector Name	FRONT FOG LAMP RH
Connector Type	FHZ02FB

H.S.

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

Connector No	E96
Connector Name	HEADLAMP LOW LH
Connector Type	FHZ02FB

H.S.



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

Connector No	E97
Connector Name	HEADLAMP LOW RH
Connector Type	FHZ02FB

H.S.

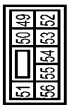


Terminal No	Color Of Wire	Signal Name [Specification]
1	BR	-
2	B	-

Connector No	E101
Connector Name	IPDM E R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FW-CS

H.S.





Terminal No	Color Of Wire	Signal Name [Specification]
49	W	
50	R	-
51	G	-
52	Y	-
53	P	-
54	BR	-
55	B	-
56	V	-

Connector No	E102
Connector Name	IPDM E R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
57	R	
58	L	-
59	V	-
60	W	-
61	GR	-
62	LG	-
63	SB	-
64	P	-

Connector No	E107
Connector Name	(OPTION CONNECTOR (FRONT FOG LAMP LH)
Connector Type	FHZ02FB

H.S.



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

Connector No	E108
Connector Name	(OPTION CONNECTOR (FRONT FOG LAMP RH)
Connector Type	FHZ02FB

H.S.



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

JRMWG7429GB

BATTERY POWER SUPPLY

Connector No	E114
Connector Name	WIRE TO WIRE
Connector Type	RS04MB

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

Connector No	E115
Connector Name	ACTIVE GRILLE SHUTTER
Connector Type	RH04FB

Terminal No	Color Of Wire	Signal Name [Specification]
1	L	–
3	W	–
4	B	–

Connector No	F1
Connector Name	TCM
Connector Type	RH40FB-RZ8-L-LH

Terminal No	Color Of Wire	Signal Name [Specification]
1	GR	ELECTRIC OIL PUMP RELAY
2	SB	–
4	Y	D RANGE SW
5	P	N RANGE SW
6	G	R RANGE SW
7	V	P RANGE SW
11	LG	SENSOR GROUND
12	BR	CVT FLUID TEMPERATURE SENSOR
14	P	G SENSOR [Except for HR engine with CVT]
14	Y	G SENSOR [HR engine with CVT]
16	L	SECONDARY PRESSURE SENSOR
17	P	PRIMARY PRESSURE SENSOR
21	R	ROM ASSY (CHIP SELECT)
22	V	ROM ASSY (DATA I/O)
23	P	CAN–L
24	LG	INPUT SPEED SENSOR
25	GR	ELECTRIC OIL PUMP COMMAND SIGNAL
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
31	L	ROM ASSY (CLOCK)
32	SB	ELECTRIC OIL PUMP STATUS SIGNAL
33	L	CAN–H
34	W	OUTPUT SPEED SENSOR
35	R	PRIMARY SPEED SENSOR
37	SB	SELECT SOLENOID VALVE
38	G	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	Y	SECONDARY PRESSURE SOLENOID VALVE
40	V	PRIMARY PRESSURE SOLENOID VALVE
41	B	GROUND
42	B	GROUND
45	V	BATTERY POWER SUPPLY (MEMORY BACK–UP)
46	P	BATTERY POWER SUPPLY (MEMORY BACK–UP)
47	BG	IGNITION POWER SUPPLY [Except for HR engine without ISS]
47	BR	IGNITION POWER SUPPLY [HR engine without ISS]
48	BR	IGNITION POWER SUPPLY

Connector No	F2
Connector Name	TCM
Connector Type	RH40FB-RZ8-L-RH

Terminal No	Color Of Wire	Signal Name [Specification]
2	SB	
4	Y	D RANGE SW
5	R	N RANGE SW
6	G	R RANGE SW
7	V	P RANGE SW
11	LG	SENSOR GROUND
12	BR	CVT FLUID TEMPERATURE SENSOR
16	L	SECONDARY PRESSURE SENSOR
17	P	PRIMARY PRESSURE SENSOR
23	P	CAN–L
24	LG	INPUT SPEED SENSOR
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
33	L	CAN–H
34	W	OUTPUT SPEED SENSOR
35	R	PRIMARY SPEED SENSOR
37	SB	SELECT SOLENOID VALVE
38	G	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	Y	SECONDARY PRESSURE SOLENOID VALVE
40	V	PRIMARY PRESSURE SOLENOID VALVE
41	B	GROUND
42	B	GROUND
45	V	BATTERY POWER SUPPLY (MEMORY BACK–UP)
46	V	BATTERY POWER SUPPLY (MEMORY BACK–UP)
47	BR	IGNITION POWER SUPPLY
48	BR	IGNITION POWER SUPPLY

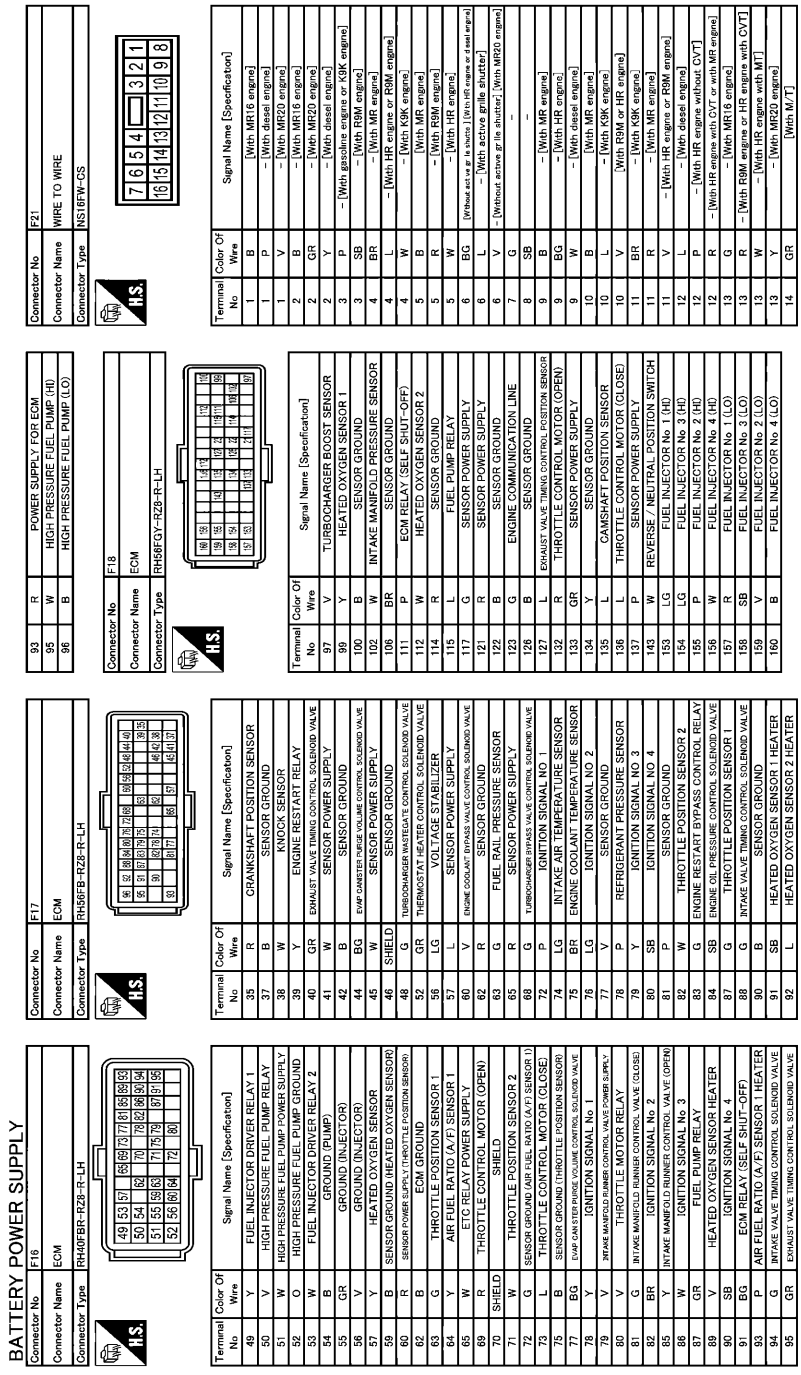
Connector No	F10
Connector Name	HEATED OXYGEN SENSOR 2
Connector Type	RH04FLGY

Terminal No	Color Of Wire	Signal Name [Specification]
1	B	
2	W	–
3	L	–
4	R	–

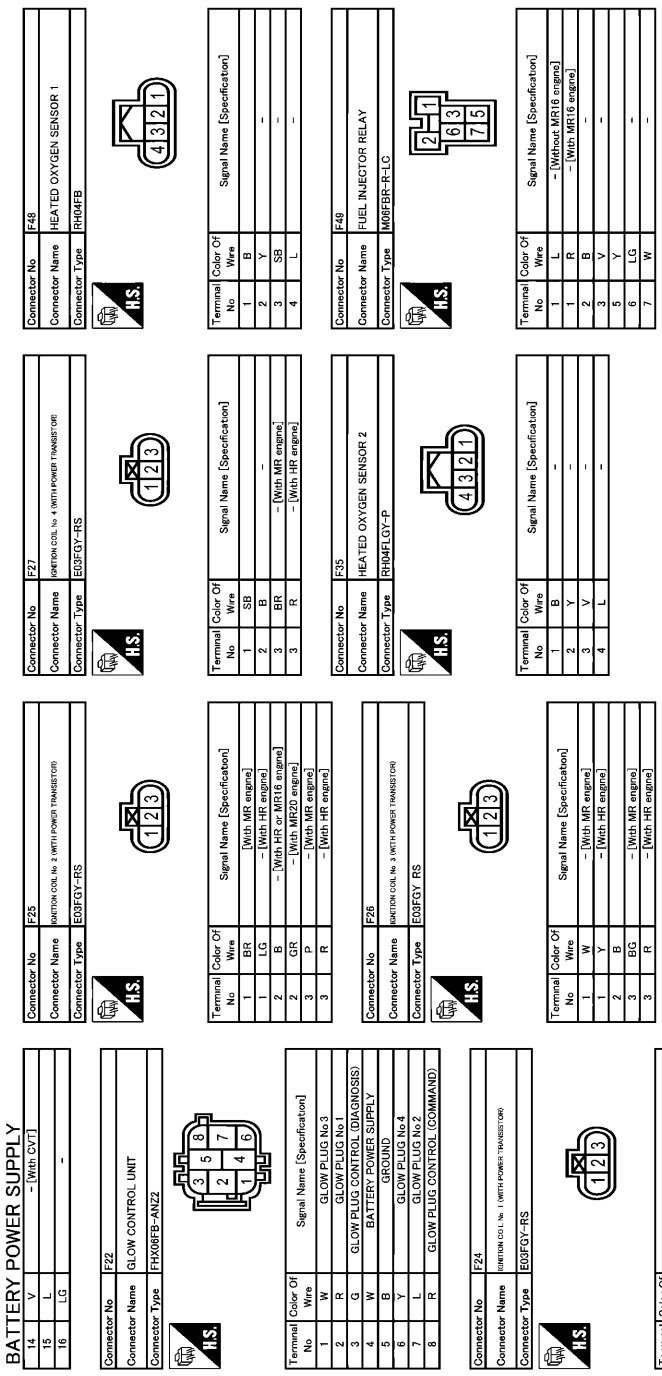
Connector No	F13
Connector Name	FUSE AND FUSIBLE LINK BLOCK–1
Connector Type	24381 4BA1A

Terminal No	Color Of Wire	Signal Name [Specification]
42	V	–
44	BR	– [With gasoline engine without ISS]
44	R	[With diesel engine]
44	V	– [With gasoline engine with ISS]
45	LG	–
46	V	–
R	BG	–
S	BR	[Except with gasoline engine without stop/start system]
S	W	[With gasoline engine without stop/start system]
T	LG	–

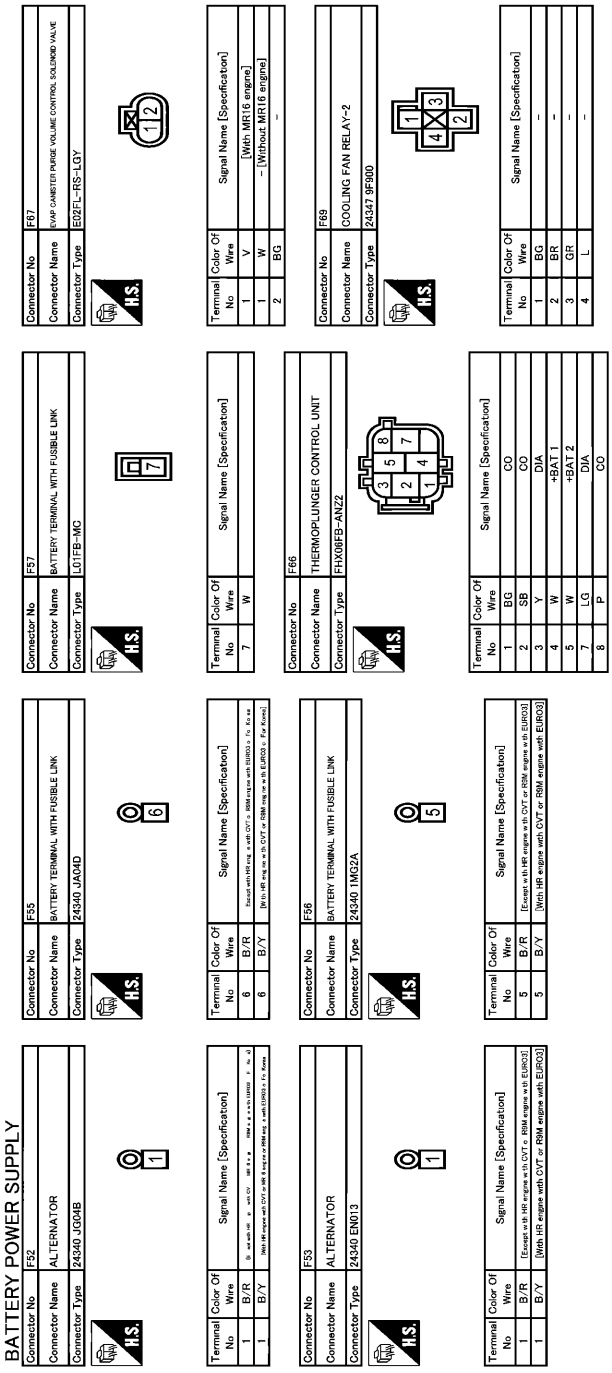
JRMWG7430GB



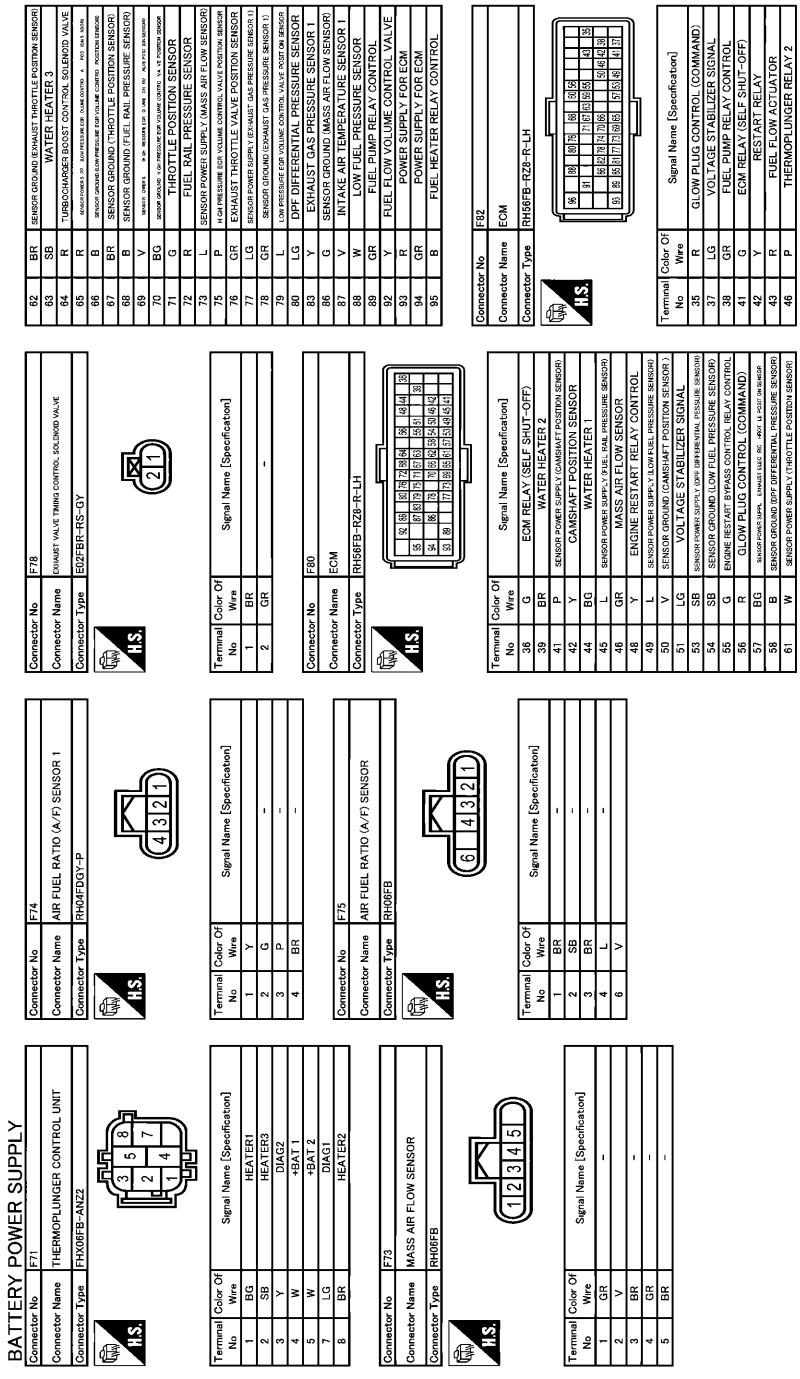
JRMWG7431GB



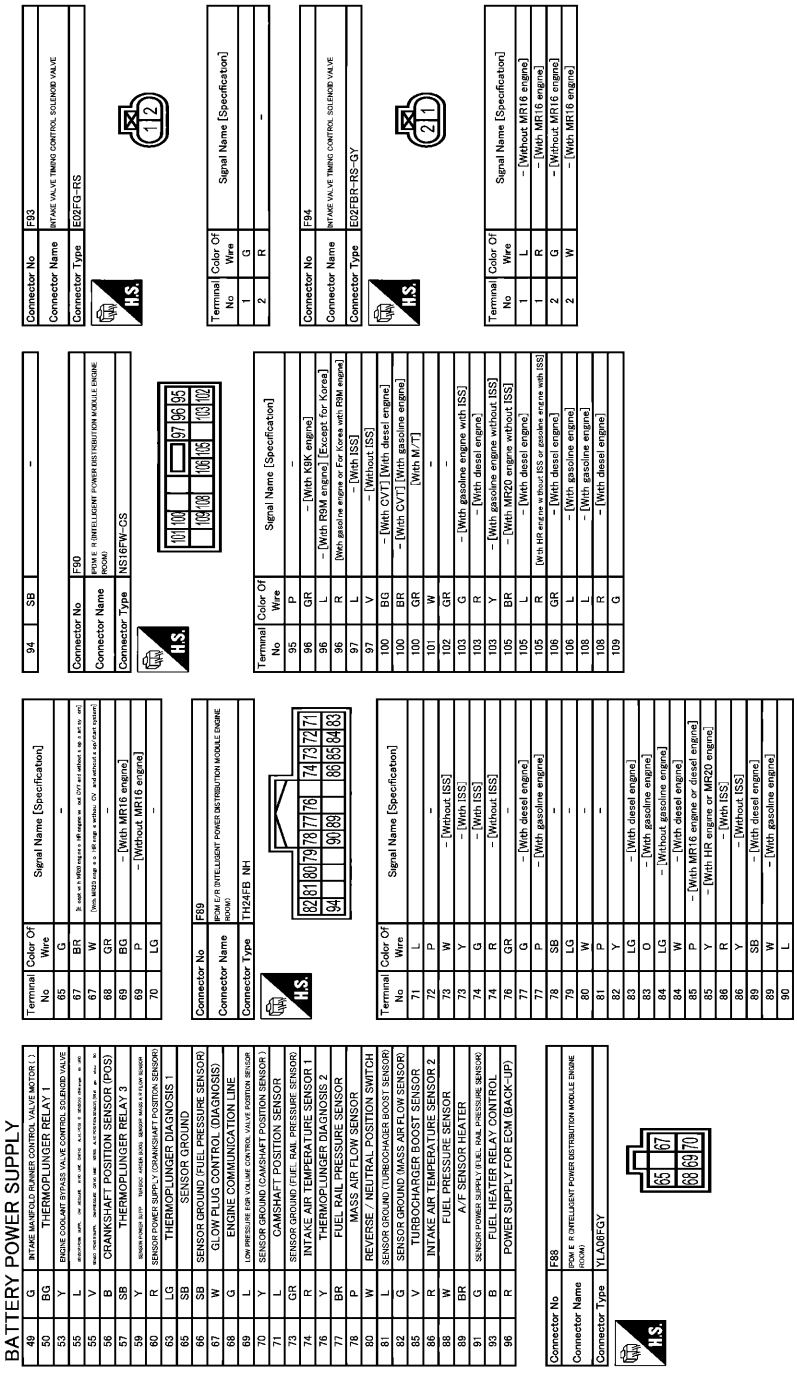
JRMWG7432GB



JRMWG7433GB



JRMWG7434GB


BATTERY POWER SUPPLY
THERMOPLUNGER RELAY 1
THERMOPLUNGER RELAY 3
THERMOPLUNGER DIAGNOSIS 1
THERMOPLUNGER DIAGNOSIS 2
CAMSHAFT POSITION SENSOR (POS)
A/F SENSOR HEATER
FUEL HEATER RELAY CONTROL
POWER SUPPLY FOR ECM (BACK-UP)
Connector No F88
Connector Name IPDM E.R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type YLA06FGY
Connector No F69
Connector Name IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type TH24FB-NH
Connector No F90
Connector Name IPDM E.R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type NS16FW-CS
Connector No F93
Connector Name INTAKE VALVE TIMING CONTROL SOLENOID VALVE
Connector Type E02FG-RS
Connector No F94
Connector Name INTAKE VALVE TIMING CONTROL SOLENOID VALVE
Connector Type E02FBR-RS-GY

BATTERY POWER SUPPLY

Connector No	F101
Connector Name	TURBOCHARGED BYPASS VALVE CONTROL SOLENOID VALVE
Connector Type	RH02FBR

H.S.



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

Connector No	F105
Connector Name	STARTER MOTOR
Connector Type	24340 JG04B

H.S.

Terminal No	Color Of Wire	Signal Name [Specification]
2	B/R	– [Except for HR engine with CVT]
2	B/Y	– [HR engine with CVT]

Connector No	F107
Connector Name	INTAKE MANIFOLD RUNNER CONTROL VALVE
Connector Type	RH06FB

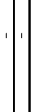
H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
1	LG	+5V
2	W	GND
3	L	SGN
4	G	MOR-
5	R	MOR+

Connector No	F108
Connector Name	TURBOCHARGER WASTEGATE CONTROL SOLENOID VALVE
Connector Type	renault 7703297285

H.S.



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

Connector No	F113
Connector Name	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
Connector Type	E02FG-RS

H.S.



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

Connector No	F115
Connector Name	GLOW CONTROL UNIT
Connector Type	renault 8200594070

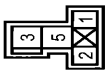
H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
1	W	GLOW PLUG NO.1
2	R	GLOW PLUG NO.2
3	LG	GLOW PLUG NO.3
4	L	GLOW PLUG NO.4
6	R	POWER SUPPLY (IGNITION)
7	GR	GROUND
9	W	GLOW PLUG CONTROL (DIAGNOSIS)
10	W	POWER SUPPLY (BATTERY)
11	R	GLOW PLUG CONTROL (COMMAND)

Connector No	F119
Connector Name	ELECTRIC OIL PUMP RELAY
Connector Type	MS12FL-M2-LC

H.S.



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

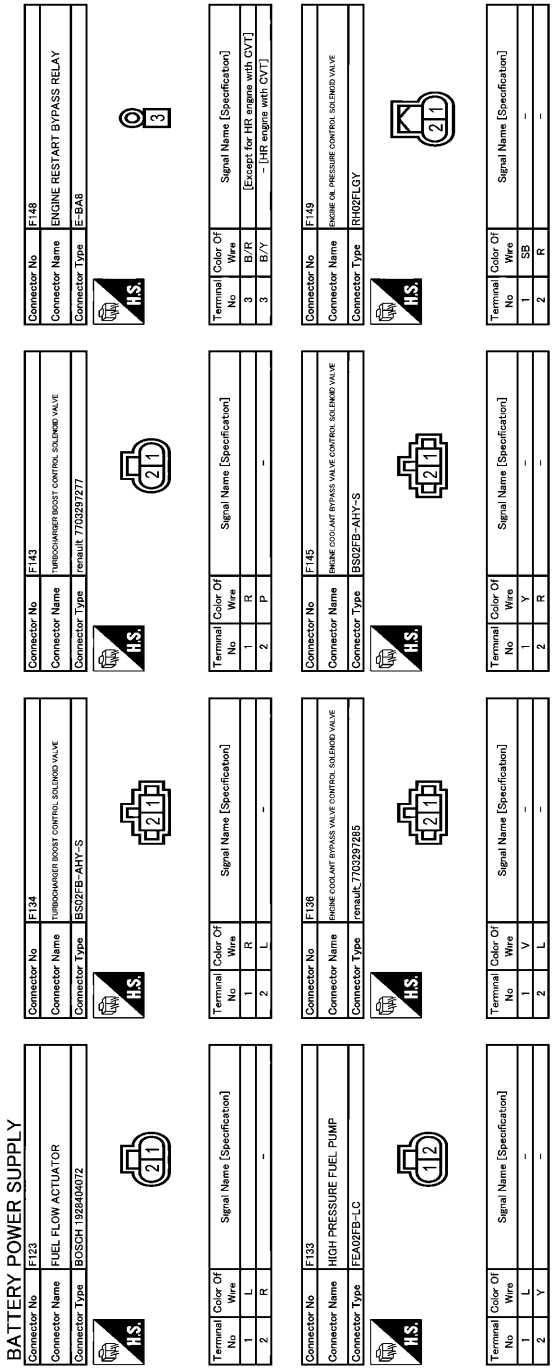
Connector No	F122
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

H.S.

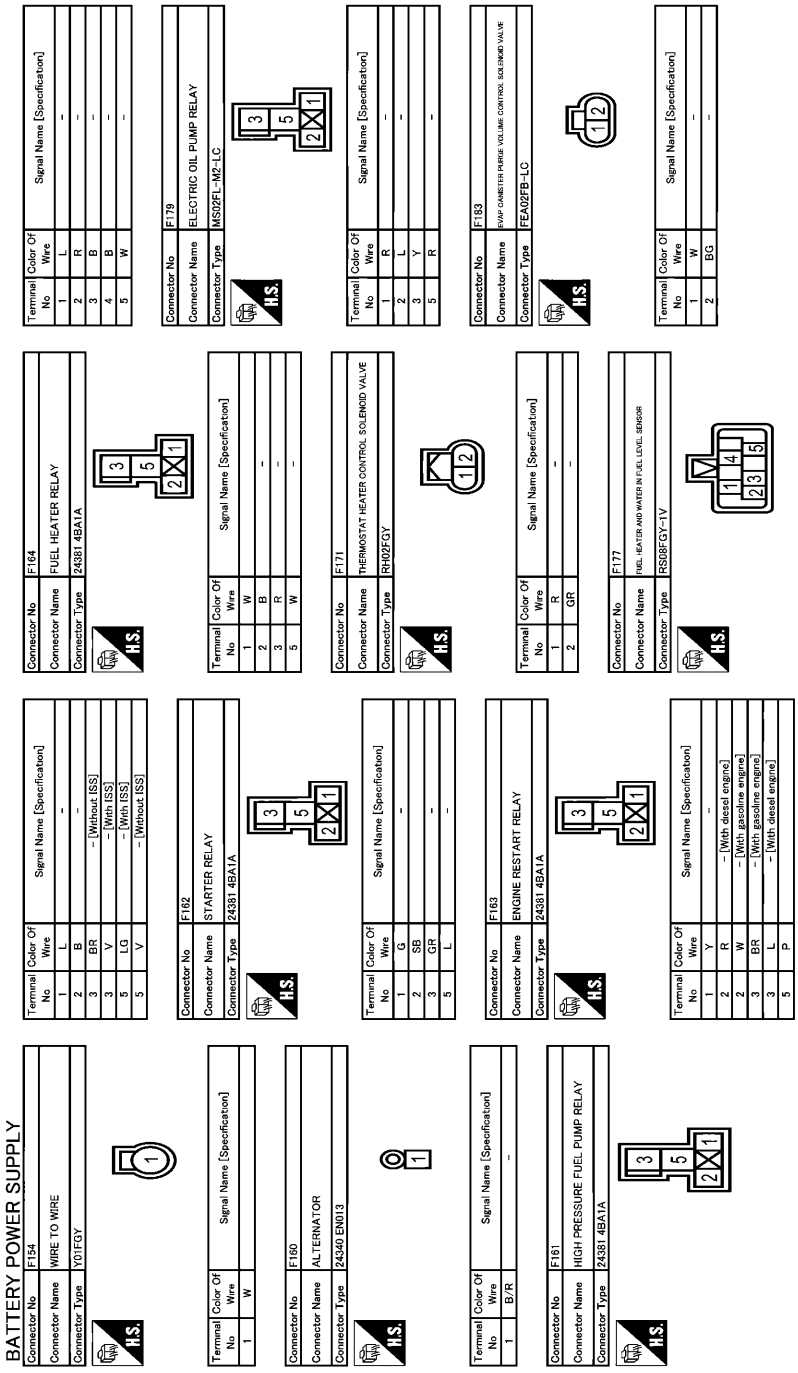


Terminal No	Color Of Wire	Signal Name [Specification]
1	L	–
2	W	–

JRMWG7436GB



JRMWG7437GB

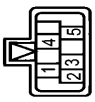


JRMWG7438GB

BATTERY POWER SUPPLY

Connector No	F191
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	
2	R	–
3	B	–
4	B	–
5	W	–

Connector No	F197
Connector Name	AIR FUEL RATIO (A/F) SENSOR
Connector Type	RH04FB-P

H.S.

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

Connector No	F200
Connector Name	CONDENSER
Connector Type	M02FW-LC

H.S.



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

Connector No	F210
Connector Name	ENGINE OIL PRESSURE CONTROL SOLENOID VALVE
Connector Type	RH02FLGY

H.S.

Terminal No	Color Of Wire	Signal Name [Specification]
1	R	VCC
2	R	SIGNAL

Connector No	F215
Connector Name	TURBOCHARGER BYPASS CONTROL VALVE
Connector Type	RH02FBR

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
1	R	VCC
2	BR	SIGNAL

Connector No	F217
Connector Name	EXHAUST VALVE TIMING CONTRO SOLENOID VA VE
Connector Type	E02FG-RS-LGY

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
1	G	CVTC(ECM)
2	R	POWER

Connector No	F224
Connector Name	INTAKE VALVE TIMING INTERMEDIATE LOCK CONTROL SOLENOID VA VE
Connector Type	E02FBR-RS-GY

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
1	L	CVTC(ECM)
2	R	POWER

Connector No	F226
Connector Name	ECM
Connector Type	MAB56FB-MEB10-LH

H.S.

Terminal No	Color Of Wire	Signal Name [Specification]
56	R	TURBOCHARGER BYPASS CONTROL VALVE POWER SUPPLY
57	W	EGR VOLUME CONTROL VALVE MOTOR (+)
58	R	EGR VOLUME CONTROL VALVE MOTOR (-)
60	B	ECM GROUND
61	W	SENSOR POWER SUPPLY
63	B	SENSOR GROUND
64	SHIELD	SHIELD
65	V	ELECTRIC WASTEGATE CONTROL ACTUATOR
66	R	SENSOR POWER SUPPLY
67	W	CAMSHAFT POSITION SENSOR
68	BR	EGR VOLUME CONTROL VALVE
69	LG	EXHAUST VALVE TIMING CONTROL POSITION SENSOR
71	B	SENSOR GROUND
72	B	SENSOR GROUND
73	Y	SENSOR POWER SUPPLY
74	G	AIR FUEL RATIO (A/F) SENSOR 1
75	L	MULTI-WAY CONTROL VALVE
76	R	EGR TEMPERATURE SENSOR

JRMWG7439GB

BATTERY POWER SUPPLY

77	V	INTAKE AIR TEMPERATURE SENSOR 2
78	R	SENSOR GROUND
79	Y	AIR FUEL RATIO (A/F) SENSOR 1
80	W	THROTTLE POSITION SENSOR 2
81	BR	ECM RELAY (SELF SHUT−OFF)
82	Y	FUEL PUMP RELAY
83	B	SENSOR POWER SUPPLY
84	W	HEATED OXYGEN SENSOR 2
85	R	SENSOR GROUND
86	L	ENGINE COMMUNICATION LINE (DCI/DCI CONVERTER)
87	W	ENGINE RESTART BYPASS CONTROL RELAY
88	G	THROTTLE POSITION SENSOR 1
89	LG	VOLTAGE STABILIZER SIGNAL
94	Y	ENGINE RESTART RELAY CONTROL SIGNAL
95	BR	IGNITION SIGNAL No. 2
96	Y	IGNITION SIGNAL No. 1
97	Y	THROTTLE MOTOR RELAY
98	R	ENGINE OIL PRESSURE CONTROL SOLENOID VALVE
101	SB	IGNITION SIGNAL No. 4
103	SB	PNP SIGNAL
104	W	IGNITION SIGNAL No. 3
105	BR	TURBOCHARGER BYPASS CONTROL VALVE
106	R	E. ECTRIC WASTEGATE CONTROL ACTUATOR POWER SUPPLY
107	R	ELECTRIC WASTEGATE CONTROL ACTUATOR MOTOR (+)
108	G	ELECTRIC WASTEGATE CONTROL ACTUATOR MOTOR (−)
110	B	ECM GROUND
111	W	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
112	G	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
113	R	POWER SUPPLY FOR ECM
114	L	INTAKE VALVE TIMING INTERMEDIATE LOCK CONTROL SOLENOID VALVE
115	BG	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
116	P	AIR FUEL RATIO (A/F) SENSOR 1 HEATER
117	G	HEATED OXYGEN SENSOR 2 HEATER
118	GR	THROTTLE CONTROL MOTOR POWER SUPPLY
119	GR	THROTTLE CONTROL MOTOR (OPEN)
120	BR	THROTTLE CONTROL MOTOR (CLOSE)

Connector No	F227
Connector Name	ECM
Connector Type	MAB35FB-MEB20-LH

H.S.

Terminal No	Color Of Wire	Signal Name [Specification]
1	W	FUEL INJECTOR NO.1 4 (HI)
2	B	FUEL INJECTOR NO.2 (LO)
3	B	FUEL INJECTOR NO.3 (LO)
4	Y	FUEL INJECTOR DRIVER POWER SUPPLY 1
5	W	FUEL INJECTOR DRIVER POWER SUPPLY 2
6	B	FUEL INJECTOR NO.4 (LO)
7	W	FUEL INJECTOR NO.2 3 (HI)
8	B	FUEL INJECTOR NO.1 (LO)
9	B	ECM GROUND
10	B	ECM GROUND
11	W	TURBOCHARGER BOOST SENSOR
12	P	REFRIGERANT PRESSURE SENSOR
13	R	SENSOR GROUND
14	B	SHIELD
15	W	KNOCK SENSOR
19	LG	EXHAUST GAS TEMPERATURE SENSOR
20	SHIELD	SENSOR GROUND
22	P	ENGINE OIL TEMPERATURE SENSOR
23	GR	ENGINE OIL PRESSURE SENSOR
24	G	EGR PRESSURE SENSOR
25	G	FUEL RAIL PRESSURE SENSOR
26	R	SENSOR POWER SUPPLY
27	L	SENSOR POWER SUPPLY
29	BR	SENSOR POWER SUPPLY
30	LG	SENSOR POWER SUPPLY
31	W	MANIFOLD ABSOLUTE PRESSURE SENSOR
33	GR	CRANKSHAFT POSITION SENSOR G SENSOR
34	G	
35	G	ENGINE COOLANT TEMPERATURE SENSOR 1
36	Y	INTAKE AIR TEMPERATURE SENSOR 1
37	G	MASS AIR FLOW SENSOR
40	W	ENGINE COOLANT TEMPERATURE SENSOR 2
42	W	SENSOR GROUND
43	BR	SENSOR GROUND
44	BR	SENSOR GROUND
45	P	SENSOR GROUND

46	R	MULTI-WAY CONTROL VALVE POWER SUPPLY
47	LG	HIGH PRESSURE FUEL PUMP DRIVER POWER SUPPLY
48	W	HIGH PRESSURE FUEL PUMP (HI)
49	B	HIGH PRESSURE FUEL PUMP (LO)
50	B	ECM GROUND
51	Y	MULTI-WAY CONTROL VALVE MOTOR (−)
52	G	MULTI-WAY CONTROL VALVE MOTOR (+)
53	V	INTAKE MANIFOLD RUNNER CONTROL VALVE POWER SUPPLY
54	G	INTAKE MANIFOLD RUNNER CONTROL VALVE (OPEN)
55	Y	INTAKE MANIFOLD RUNNER CONTROL VALVE (CLOSE)

Connector No	F228
Connector Name	HEATED OXYGEN SENSOR
Connector Type	RH04FDGY-P

H.S.

Terminal No	Color Of Wire	Signal Name [Specification]
1	R	−
2	W	−
3	G	−
4	R	−

Connector No	M7
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH

H.S.

Terminal No	Color Of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	SB	IGN

7	R	INDICATOR L
8	P	INDICATOR R
27	L	V-CAN-H
28	R	V CAN L
36	BR	FROM C/U TO PUMP
37	V	SIGNAL GND
38	GR	FROM PUMP TO C/U

Connector No	M10
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2

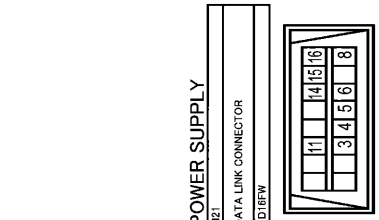
H.S.

Terminal No	Color Of Wire	Signal Name [Specification]
2	L	SOUND SIGNAL FRONT SPEAKER LH (+)
3	V	SOUND SIGNAL FRONT SPEAKER LH (−)
4	W	SOUND SIGNAL REAR SPEAKER LH (+)
5	Y	SOUND SIGNAL REAR SPEAKER LH (−)
7	LG	IGNITION SIGNAL
8	R	ILLUMINATION SIGNAL (−)
9	BR	ILLUMINATION SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (−)
13	LG	SOUND SIGNAL REAR SPEAKER RH (+)
14	GR	SOUND SIGNAL REAR SPEAKER RH (−)
17	P	DONGLE / AUDIO LINK
18	P	VEHICLE SPEED SIGNAL (8-PULSE)
19	L	BATTERY
20	B	GROUND

JRMWG7440GB

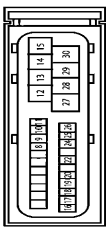
BATTERY POWER SUPPLY

Connector No	M21
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No	Color Of Wire	Signal Name [Specification]
3	LG	–
4	B	–
5	B	–
6	L	–
8	Y	–
11	SB	–
14	P	–
15	BR	–
16	W	–

Connector No	M29
Connector Name	ELECTRIC PARK BRAKE CONTROL UNIT
Connector Type	renault 8200668809

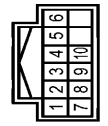


Terminal No	Color Of Wire	Signal Name [Specification]
8	SB	DEMAND LAMP
9	BR	SW REL NO
10	R	SW REL NC
11	V	SW SUP 2
12	GR	MOTOR R+
13	R	B+MOTOR R
14	W	MOTOR L+
15	V	B+MOTOR L
16	L	V–CAN–H
17	P	V–CAN–L
18	BG	SW APP NO
19	G	SW APP NC
20	Y	SW SUP 1
22	W	IGN
24	LG	CLUTCH GND
25	G	CLUTCH IN
26	GR	CLUTCH SUP
27	G	MOTOR R–
28	B	GND
29	BR	MOTOR L–
30	B	GND

Connector No	M23
Connector Name	DC/DC CONVERTER
Connector Type	M06FW-LC

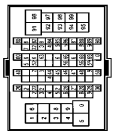
Terminal No	Color Of Wire	Signal Name [Specification]
1	LG	POWER SUPPLY INPUT 1
2	B	GROUND
3	L	POWER SUPPLY INPUT 2
4	G	POWER SUPPLY OUTPUT 1
6	W	POWER SUPPLY OUTPUT 2

Connector No	M30
Connector Name	ELECTRIC PARK BRAKE SWITCH ASSEMBLY
Connector Type	TH12FW-NH



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

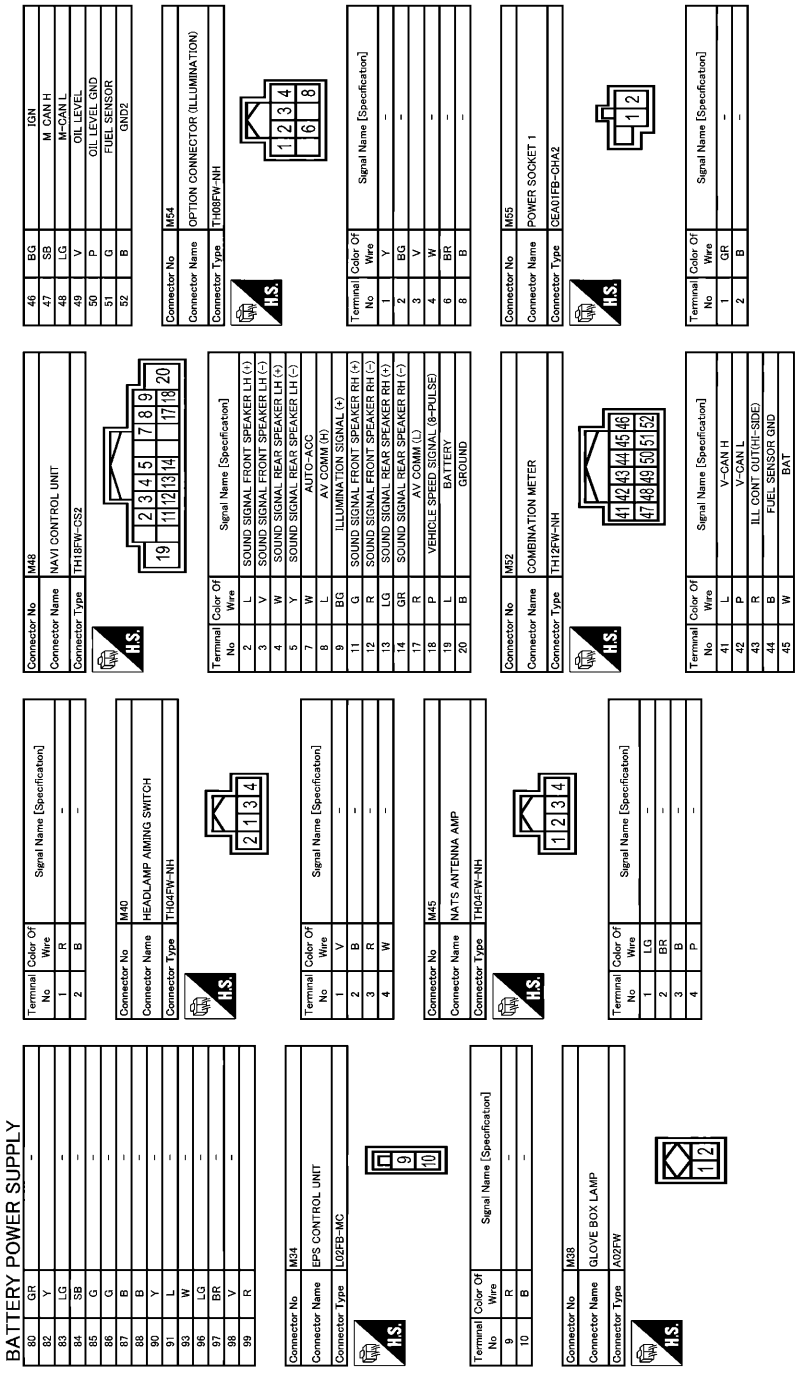
Connector No	M32
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



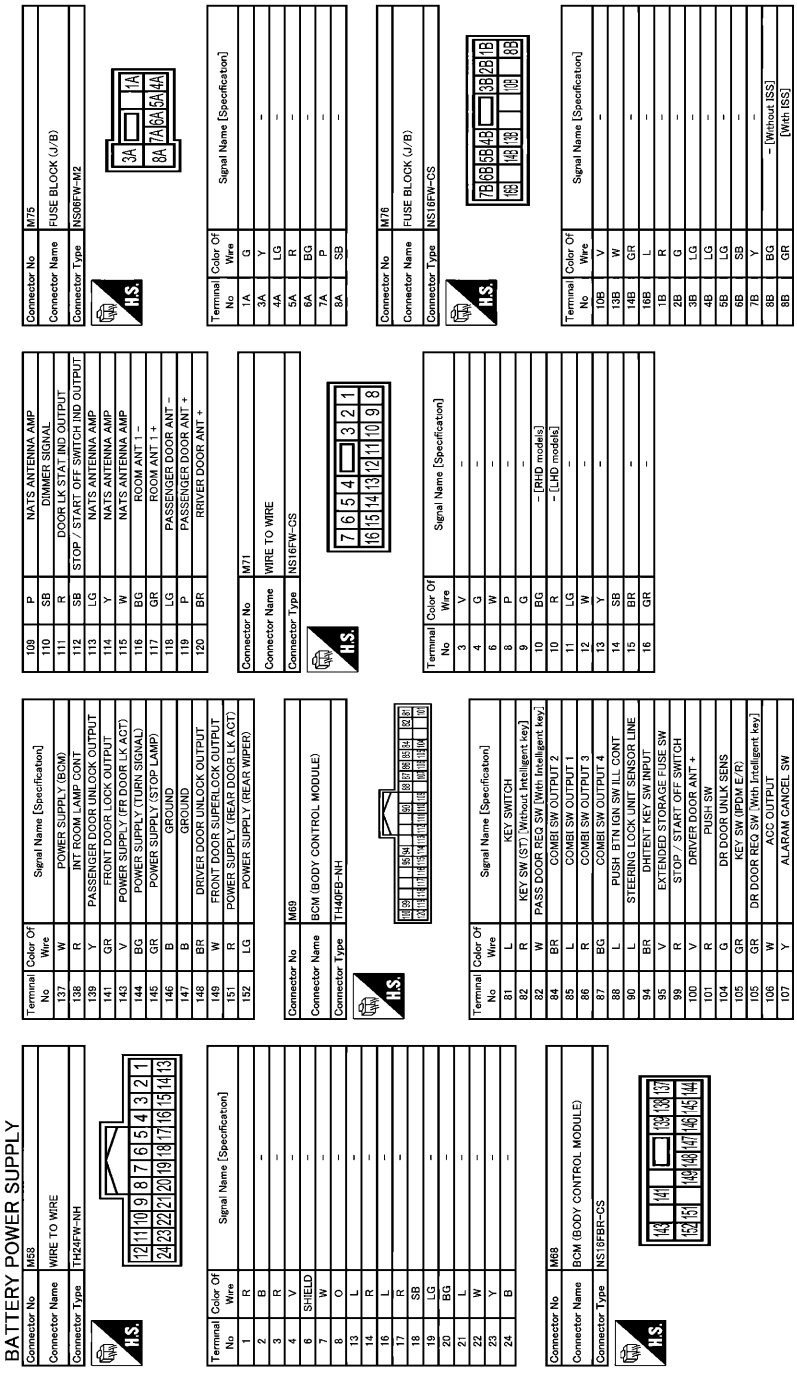
Terminal No	Color Of Wire	Signal Name [Specification]
2	R	–
5	V	–
7	GR	–
8	P	–
9	SB	–
10	R	–
14	W	–
20	L	–
21	P	–
22	SHIELD	

Terminal No	Color Of Wire	Signal Name [Specification]
24	BR	–
31	V	–
32	GR	–
33	G	–
34	LG	–
35	BG	– [Without MR16 engine]
35	LG	– [With MR16 engine]
36	BG	– [With MR16 engine]
36	LG	– [Without MR16 engine]
37	V	–
38	G	– [Without MR16 engine]
38	R	– [With MR16 engine]
39	BR	–
40	L	–
41	P	–
42	W	–
43	R	–
44	Y	–
45	LG	–
46	L	–
47	BG	–
48	V	–
49	P	–
51	BR	–
52	SB	–
53	LG	[With Intelligent Key and HR engine without CVT]
53	W	[Except with Intelligent Key and MR engine without CVT]
55	BR	–
56	P	–
57	B	–
58	L	–
59	GR	–
60	G	–
61	SB	–
62	V	–
63	BR	–
64	Y	–
65	GR	–
66	P	–
67	L	–
68	R	–
69	W	–
70	G	–
71	Y	–
72	BG	–
73	R	–
76	L	–
77	V	–
78	LG	–
79	SHIELD	

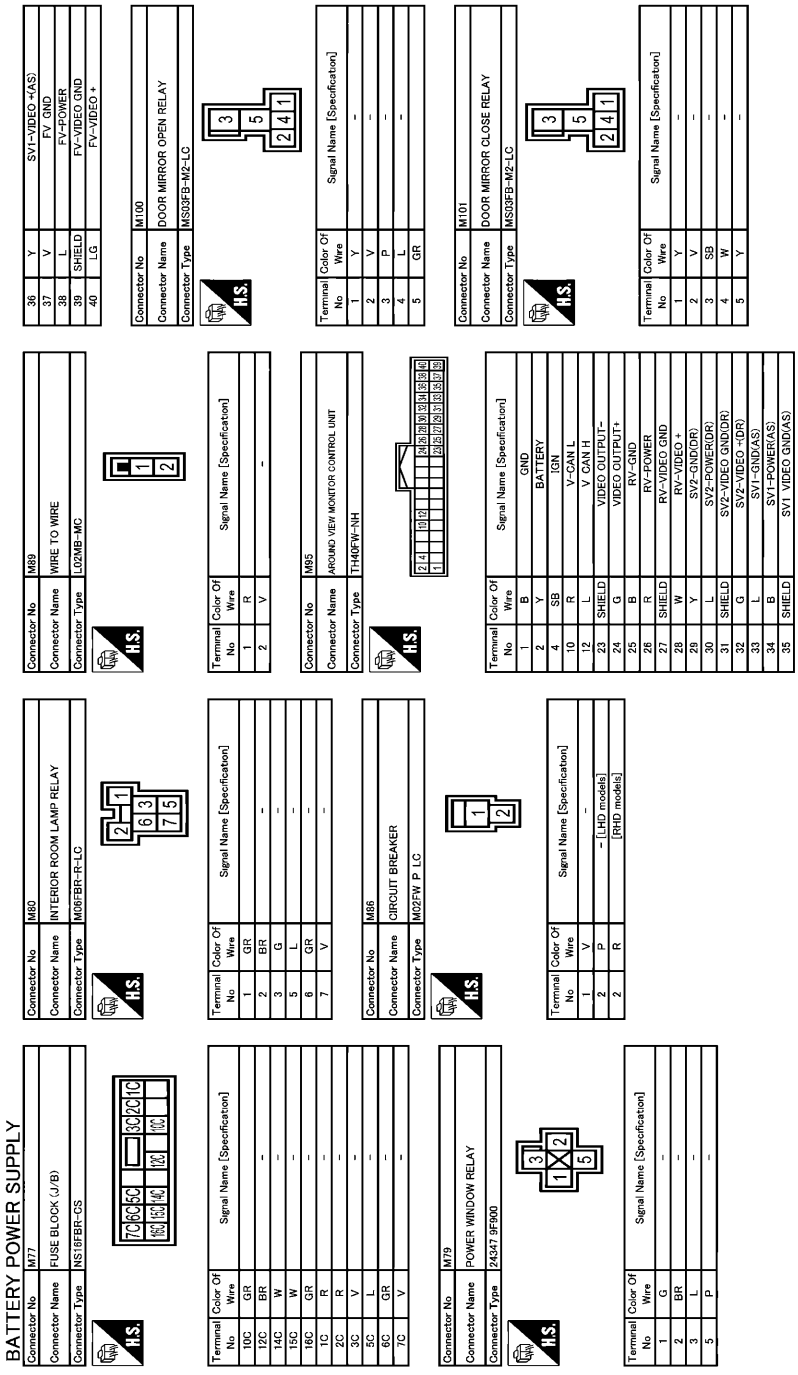
JRMWG7441GB



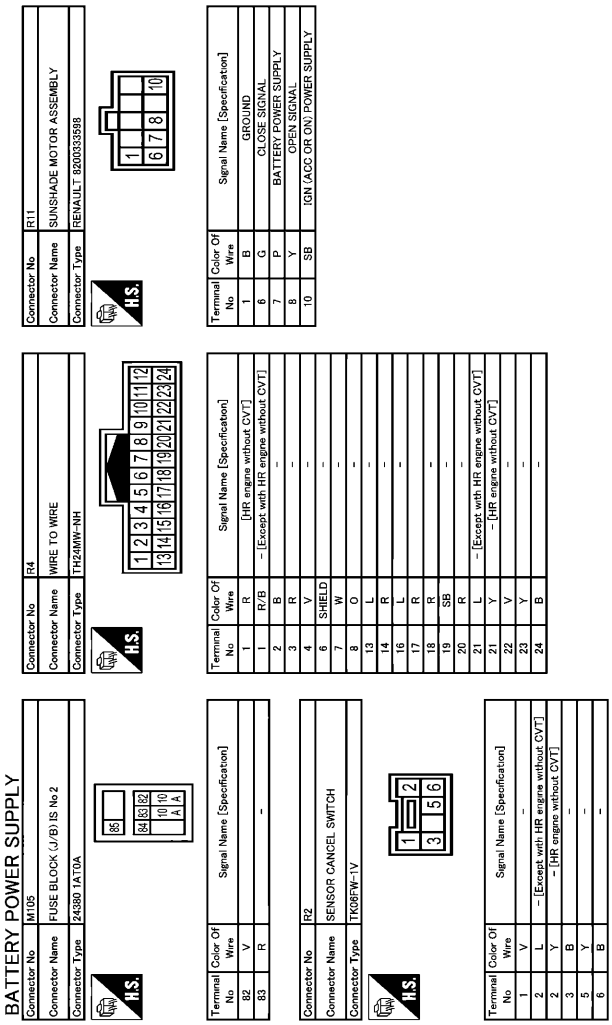
JRMWG7442GB



JRMWG7443GB



JRMWG7444GB

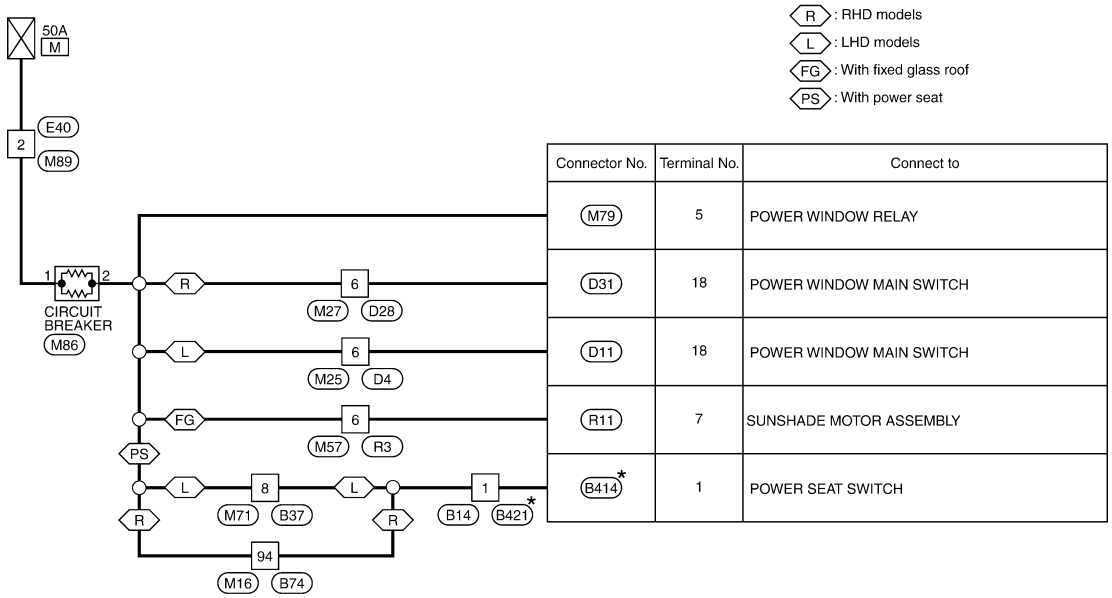


JRMWG7445GB

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

INFOID:0000000010464060

BATTERY POWER SUPPLY FUSIBLE LINK No. M



Connector No.	Terminal No.	Connect to
M79	5	POWER WINDOW RELAY
D31	18	POWER WINDOW MAIN SWITCH
D11	18	POWER WINDOW MAIN SWITCH
R11	7	SUNSHADE MOTOR ASSEMBLY
B414*	1	POWER SEAT SWITCH

2014/06/13

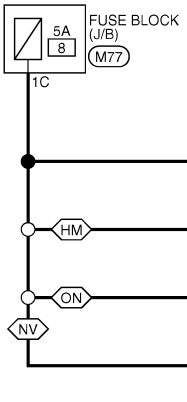
JRMWF9687GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 8 -

INFOID:0000000010464061

BATTERY POWER SUPPLY FUSE No. 8

NV : With NAVI
ON : Without NAVI
HM : With headlamp aiming control system (MANUAL)



Connector No.	Terminal No.	Connect to
M38	1	GLOVE BOX LAMP
M40	3	HEADLAMP AIMING SWITCH
M10	9	AUDIO UNIT
M48	9	NAVI CONTROL UNIT

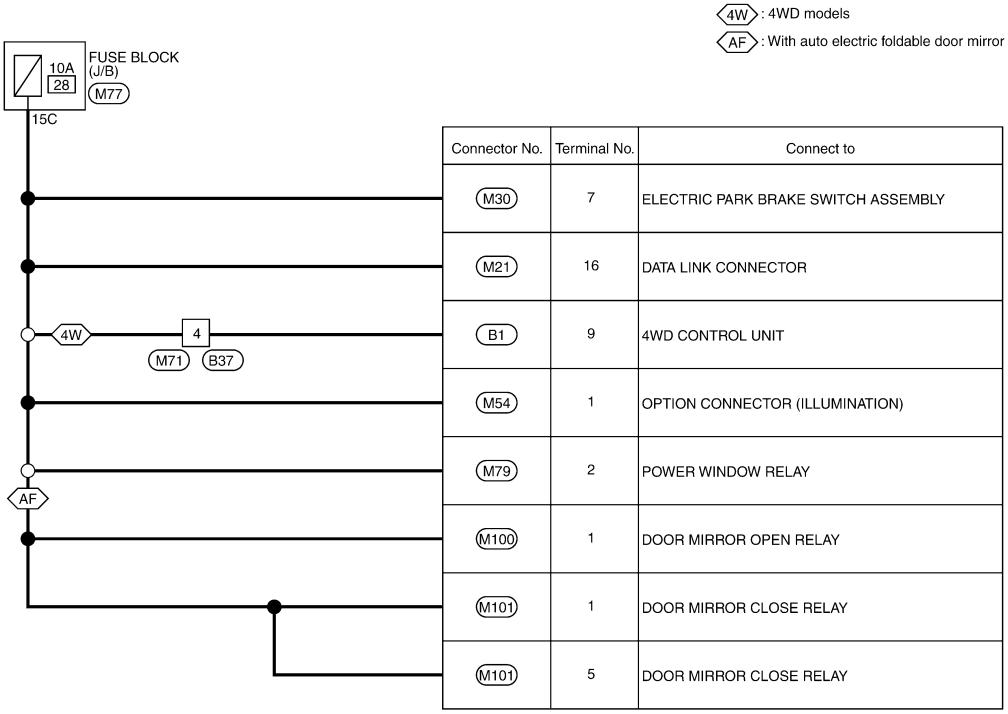
2013/11/20

JRMWE9298GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 28 -

INFOID:0000000010464062

BATTERY POWER SUPPLY FUSE No. 28



Connector No.	Terminal No.	Connect to
M30	7	ELECTRIC PARK BRAKE SWITCH ASSEMBLY
M21	16	DATA LINK CONNECTOR
B1	9	4WD CONTROL UNIT
M54	1	OPTION CONNECTOR (ILLUMINATION)
M79	2	POWER WINDOW RELAY
M100	1	DOOR MIRROR OPEN RELAY
M101	1	DOOR MIRROR CLOSE RELAY
M101	5	DOOR MIRROR CLOSE RELAY

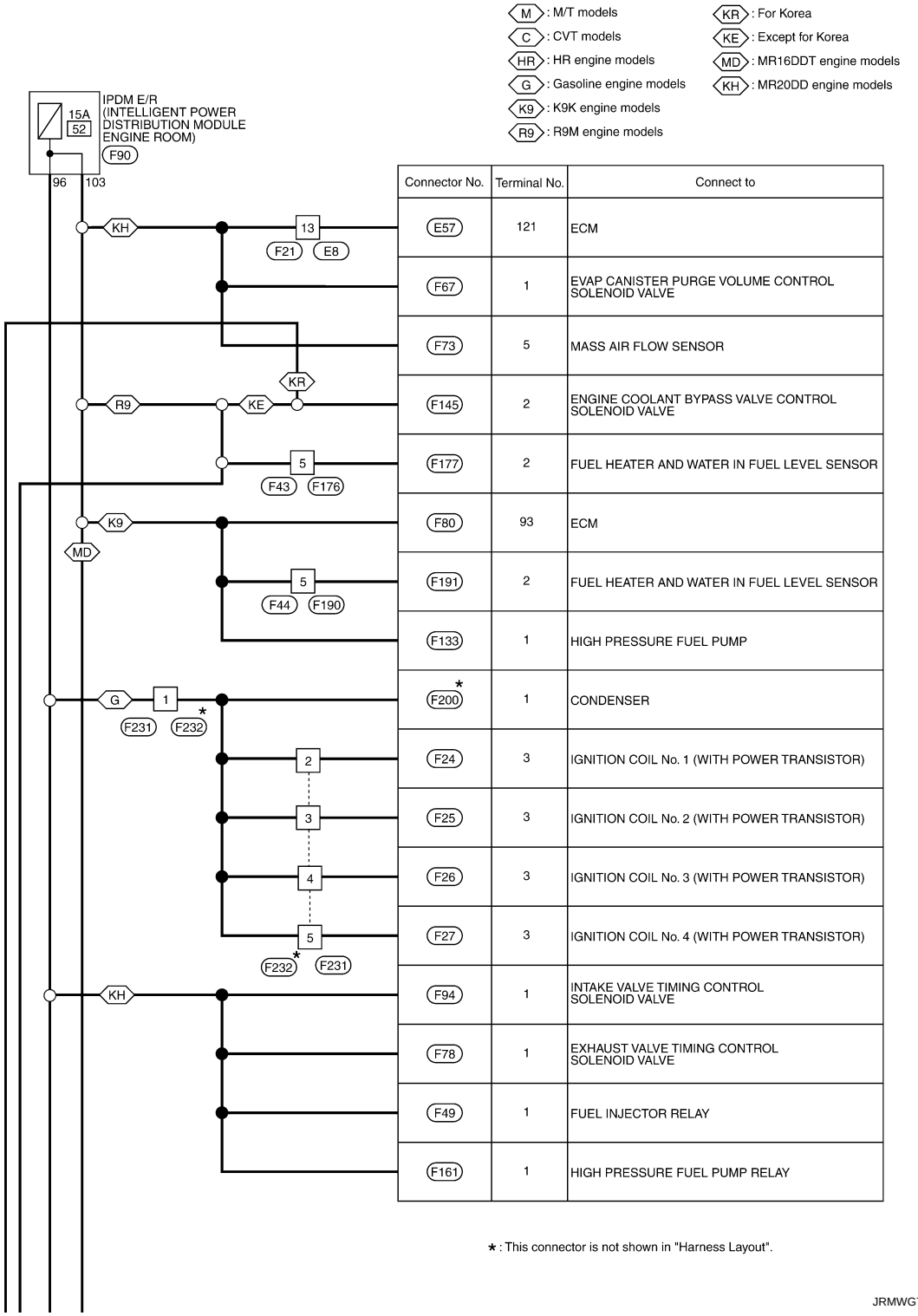
2014/06/13

JRMWF9688GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 52 -

INFOID:0000000010464063

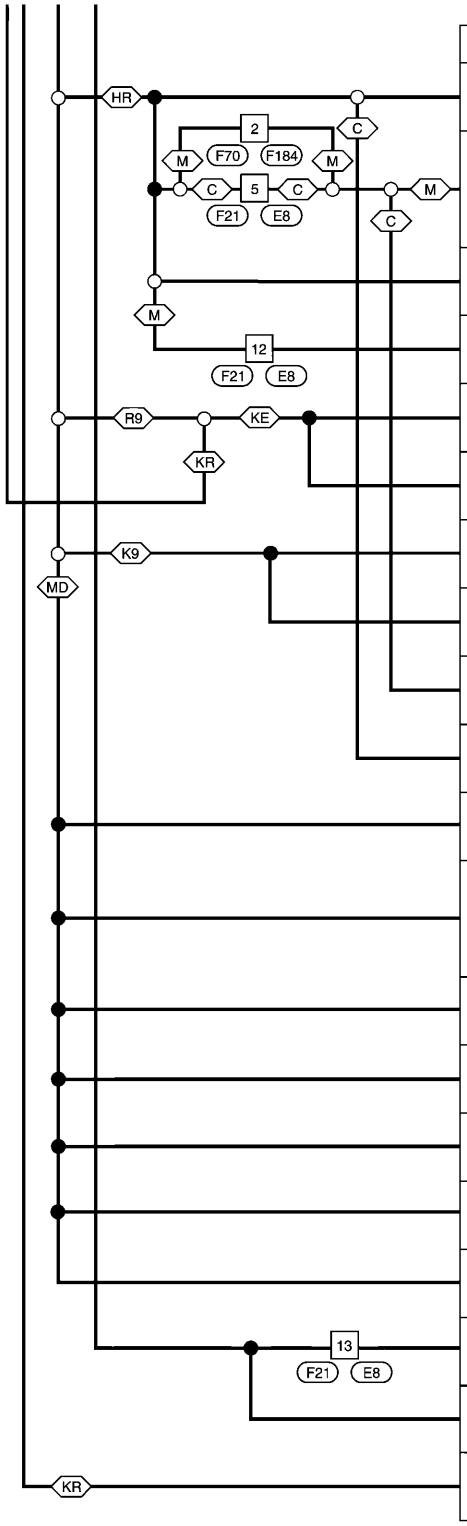
BATTERY POWER SUPPLY FUSE No. 52



Connector No.	Terminal No.	Connect to
E57	121	ECM
F67	1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F73	5	MASS AIR FLOW SENSOR
F145	2	ENGINE COOLANT BYPASS VALVE CONTROL SOLENOID VALVE
F177	2	FUEL HEATER AND WATER IN FUEL LEVEL SENSOR
F80	93	ECM
F191	2	FUEL HEATER AND WATER IN FUEL LEVEL SENSOR
F133	1	HIGH PRESSURE FUEL PUMP
F200*	1	CONDENSER
F24	3	IGNITION COIL No. 1 (WITH POWER TRANSISTOR)
F25	3	IGNITION COIL No. 2 (WITH POWER TRANSISTOR)
F26	3	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)
F27	3	IGNITION COIL No. 4 (WITH POWER TRANSISTOR)
F94	1	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F78	1	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
F49	1	FUEL INJECTOR RELAY
F161	1	HIGH PRESSURE FUEL PUMP RELAY

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

JRMWG7446GB



Connector No	Terminal No	Connect to
F48	4	HEATED OXYGEN SENSOR 1
F183	1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F108	2	TURBOCHARGER WASTE GATE CONTROL SOLENOID VALVE
E9	28	ECM
F75	4	AIR FUEL RATIO (A/F) SENSOR
F123	1	FUEL FLOW ACTUATOR
F80	94	ECM
F143	2	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
E65	1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F10	4	HEATED OXYGEN SENSOR 2
F161	1	HIGH PRESSURE FUEL PUMP RELAY
F49	1	FUEL INJECTOR RELAY
F224	2	INTAKE VALVE TIMING INTERMEDIATE LOCK CONTROL SOLENOID VALVE
F217	2	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
F94	2	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F215	1	TURBOCHARGER BYPASS CONTROL VALVE
F210	1	ENGINE OIL PRESSURE CONTROL SOLENOID VALVE
E61	145	ECM
F67	1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F134	2	TURBOCHARGER BOOST CONTROL SOLENOID VALVE

2014/10/30

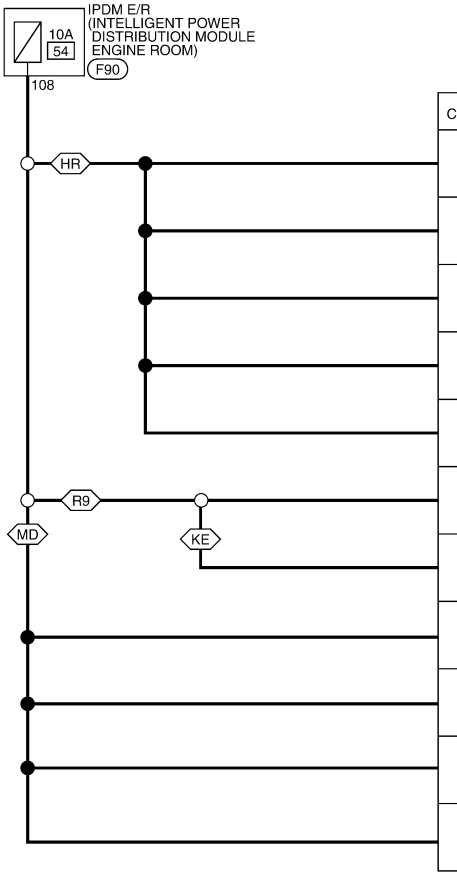
JRMWG7985GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 54 -

INFOID:0000000010464064

BATTERY POWER SUPPLY FUSE No. 54

HR : HR engine models
R9 : R9M engine models
KE : Except for Korea
MD : MR16DDT engine models



Connector No.	Terminal No.	Connect to
F136	2	ENGINE COOLANT BYPASS VALVE CONTROL SOLENOID VALVE
F149	2	ENGINE OIL PRESSURE CONTROL SOLENOID VALVE
F113	2	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
F93	2	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F101	2	TURBOCHARGER BYPASS VALVE CONTROL SOLENOID VALVE
F82	96	ECM
F107	5	INTAKE MANIFOLD RUNNER CONTROL VALVE
F227	46	ECM
F227	53	ECM
F226	56	ECM
F226	106	ECM

2014/10/01

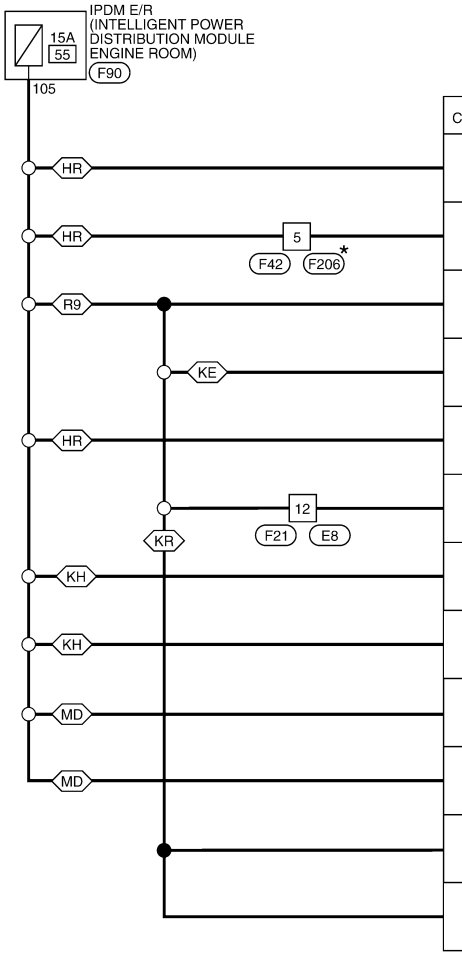
JRMWG7447GB

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 55 -

INFOID:0000000010464065

BATTERY POWER SUPPLY FUSE No. 55

KR : For Korea
KE : Except for Korea
R9 : R9M engine models
HR : HR engine models
MD : MR16DDT engine models
KH : MR20DD engine models



Connector No.	Terminal No.	Connect to
F10	4	HEATED OXYGEN SENSOR 2
F171*	1	THERMOSTAT HEATER CONTROL SOLENOID VALVE
F115	6	GLOW CONTROL UNIT
F134	2	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
F17	93	ECM
E58	28	ECM
F74	4	AIR FUEL RATIO (A/F) SENSOR 1
F35	4	HEATED OXYGEN SENSOR 2
F197	4	AIR FUEL RATIO (A/F) SENSOR
F228	4	HEATED OXYGEN SENSOR
F123	1	FUEL FLOW ACTUATOR
F107	5	INTAKE MANIFOLD RUNNER CONTROL VALVE

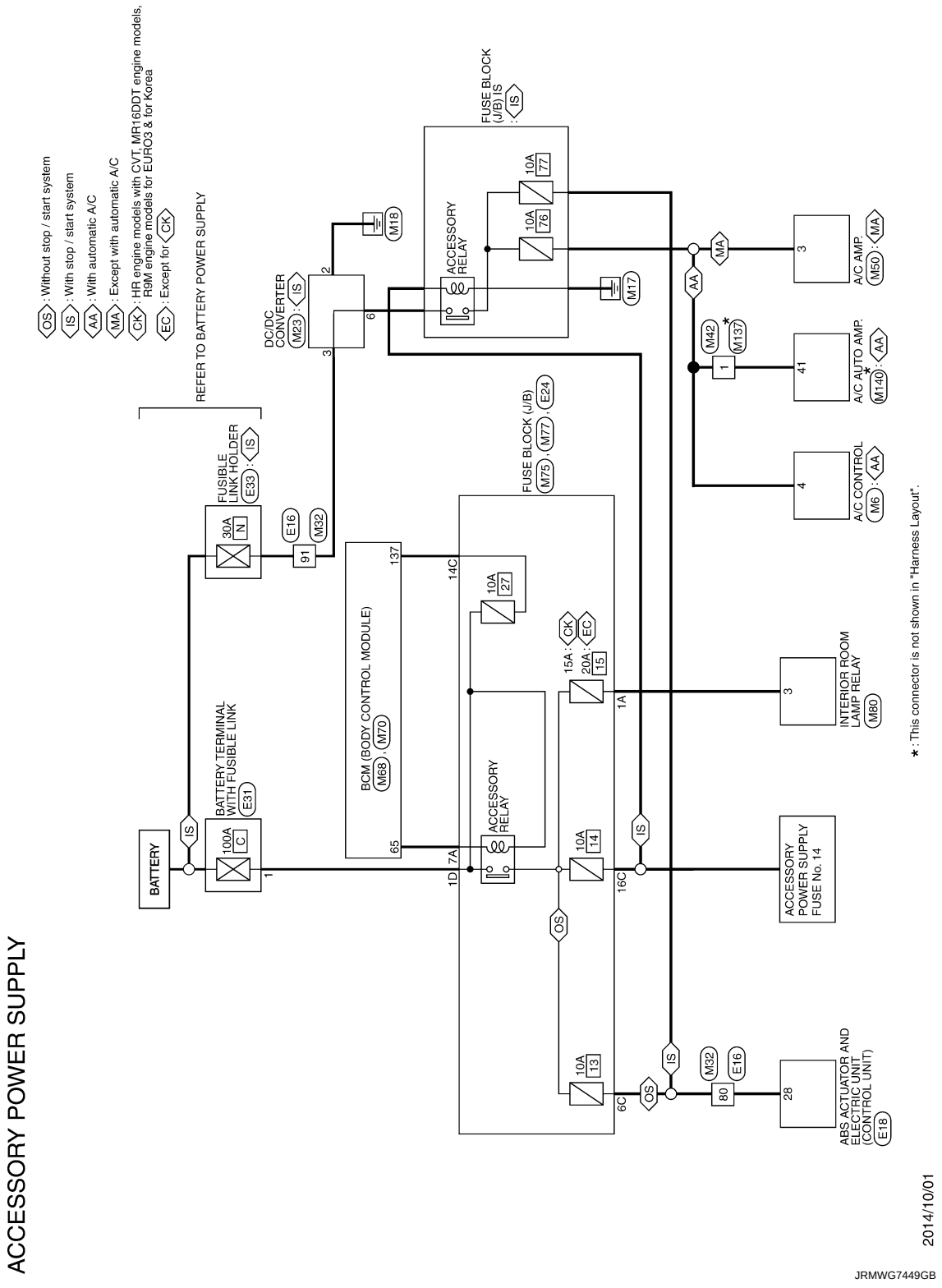
★ : This connector is not shown in "Harness Layout".

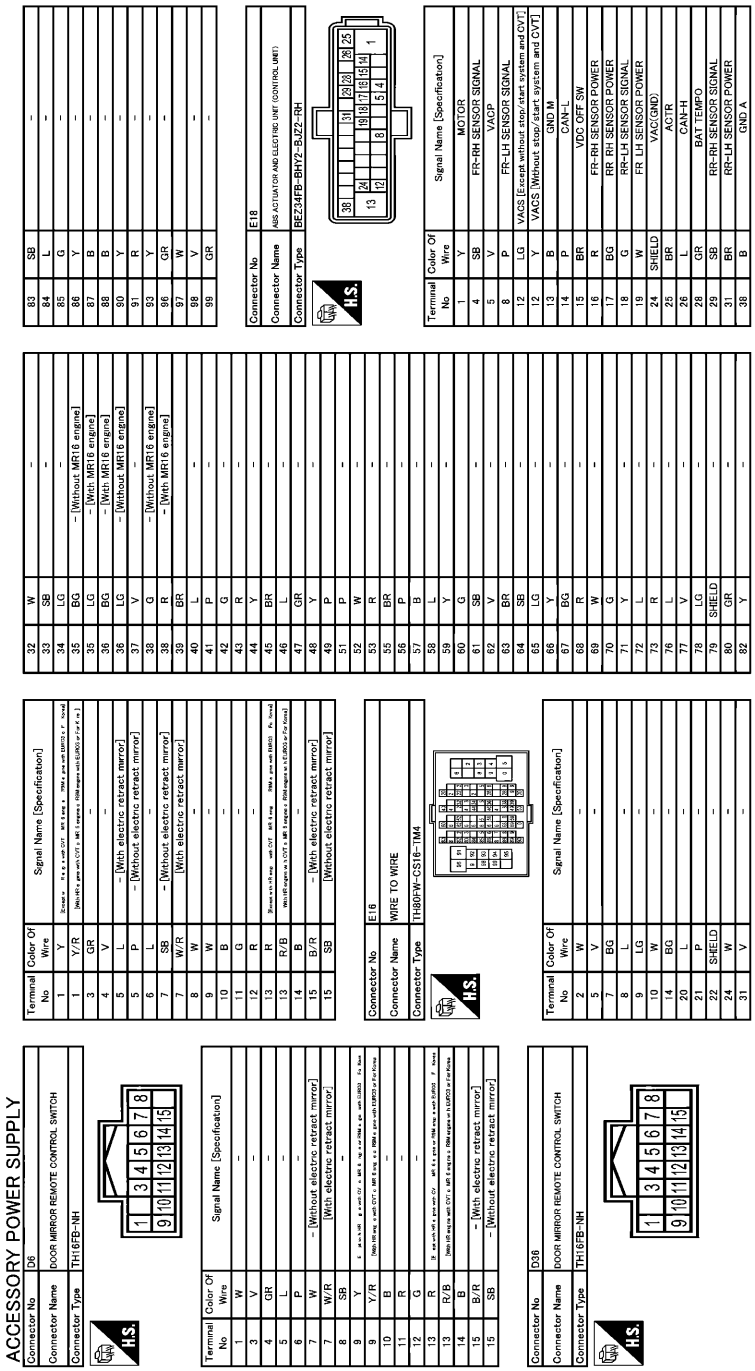
2014/10/01

JRMWG7448GB

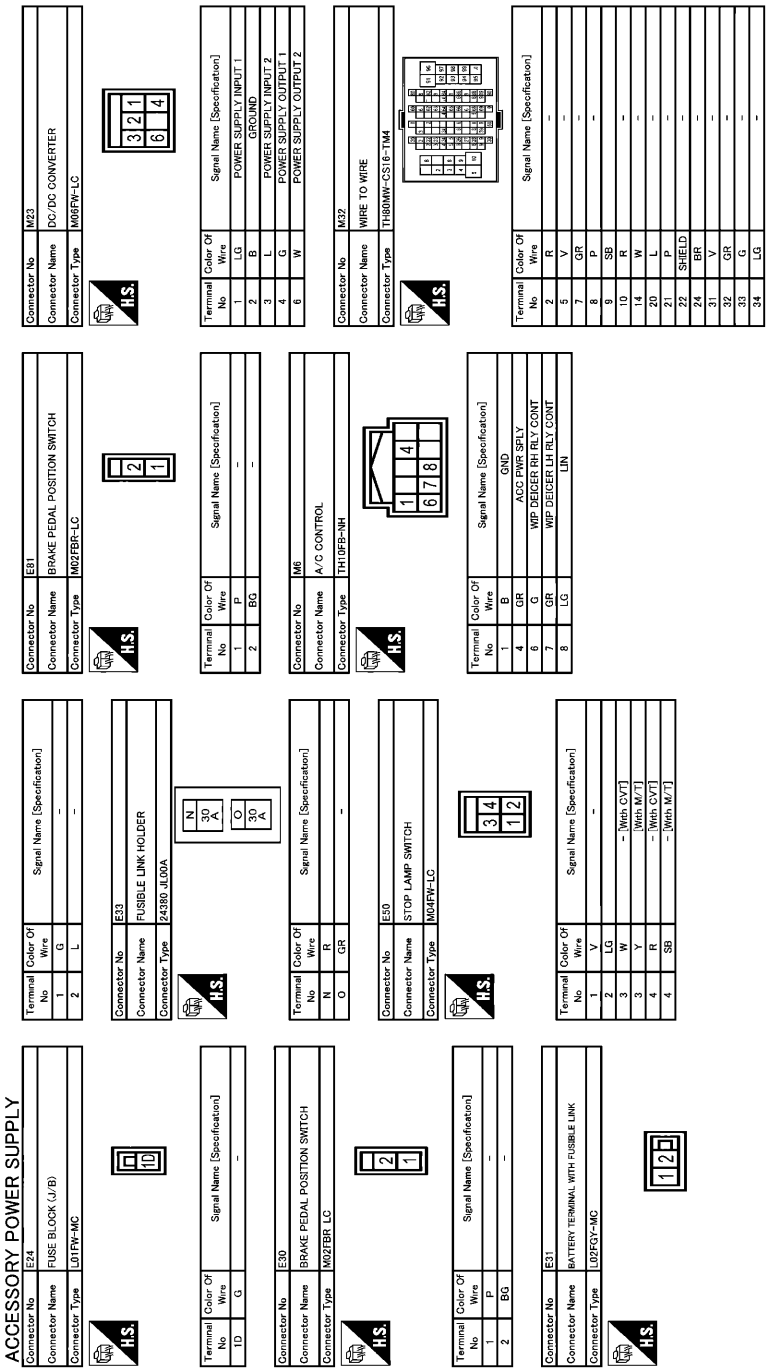
Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:0000000010464068

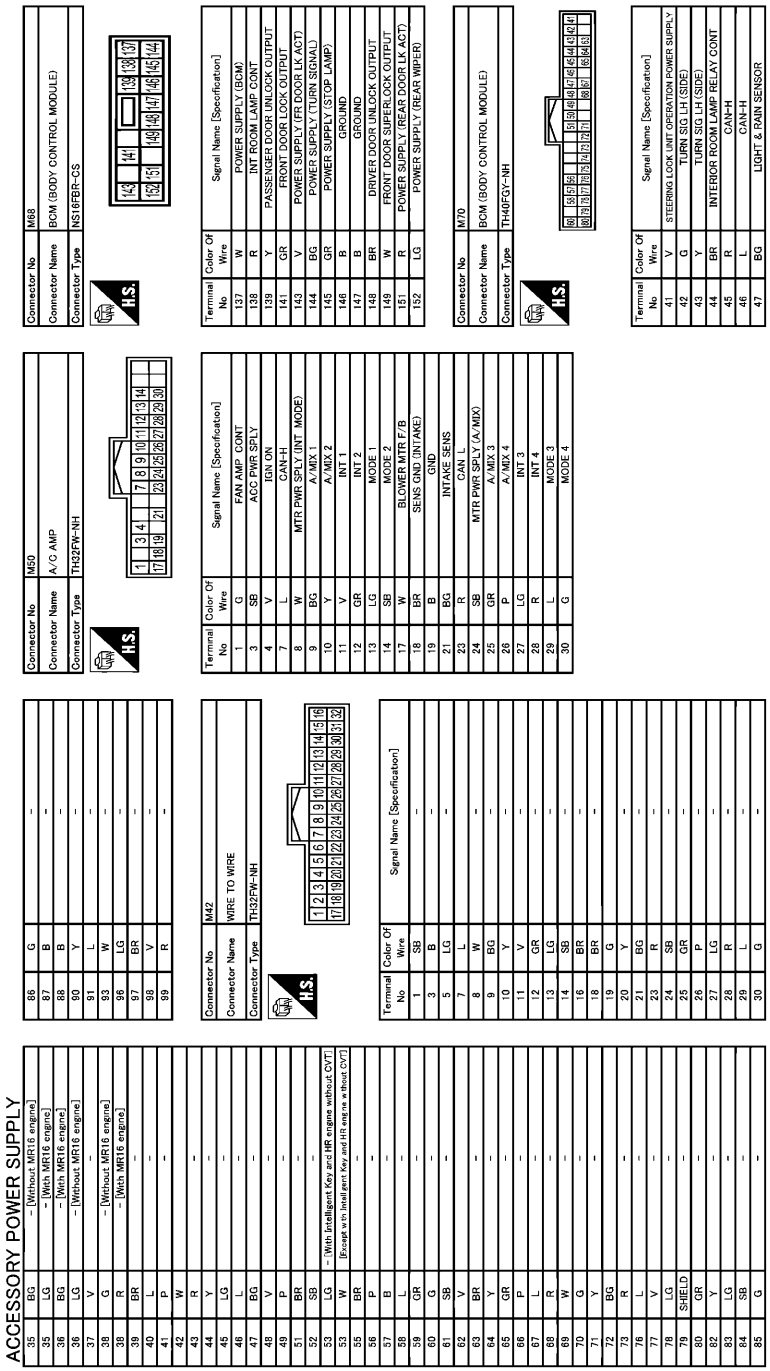




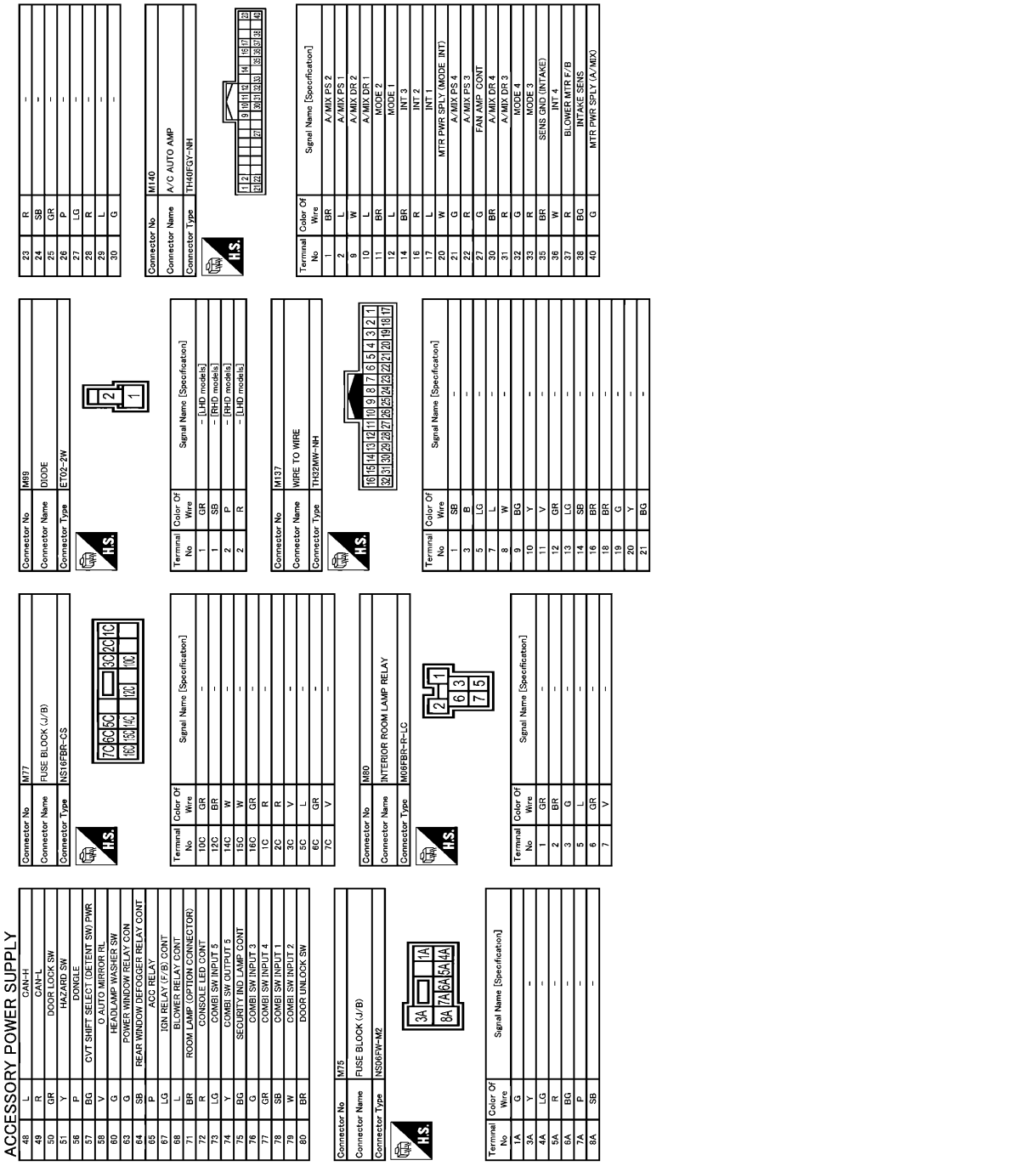
JRMWG7450GB



JRMWG7451GB



JRMWG7452GB

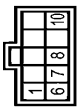


JRMWG7453GB

ACCESSORY POWER SUPPLY

Connector No	R11
Connector Name	SUNSHADE MOTOR ASSEMBLY
Connector Type	RENAULT 8200333598

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
1	B	GROUND
6	G	CLOSE SIGNAL
7	P	BATTERY POWER SUPPLY
8	Y	OPEN SIGNAL
10	SB	IGN (ACC OR ON) POWER SUPPLY

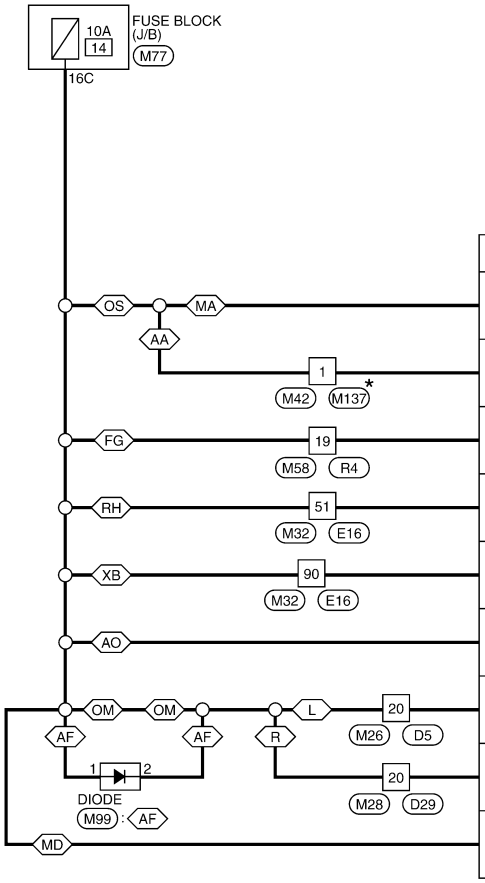
JRMWG7454GB

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 14 -

INFOID:0000000010464069

ACCESSORY POWER SUPPLY FUSE No. 14

R : RHD models
L : LHD models
AO : With automatic A/C and without stop / start system
FG : With fixed glass roof
AA : With automatic A/C
OS : Without stop / start system
MA : Except with automatic A/C
MD : MR16DDT engine models
XB : Without secondary brake switch
AF : With auto electric foldable door mirror
OM : Without auto electric foldable door mirror
RH : HR engine models & R9M engine models with CVT



Connector No.	Terminal No.	Connect to
M50	3	A/C AMP.
M140 *	41	A/C AUTO AMP.
R11	10	SUNSHADE MOTOR ASSEMBLY
E30	1	BRAKE PEDAL POSITION SWITCH
E50	3	STOP LAMP SWITCH
M6	4	A/C CONTROL
D6	15	DOOR MIRROR REMOTE CONTROL SWITCH
D36	15	DOOR MIRROR REMOTE CONTROL SWITCH
E81	2	BRAKE PEDAL POSITION SWITCH

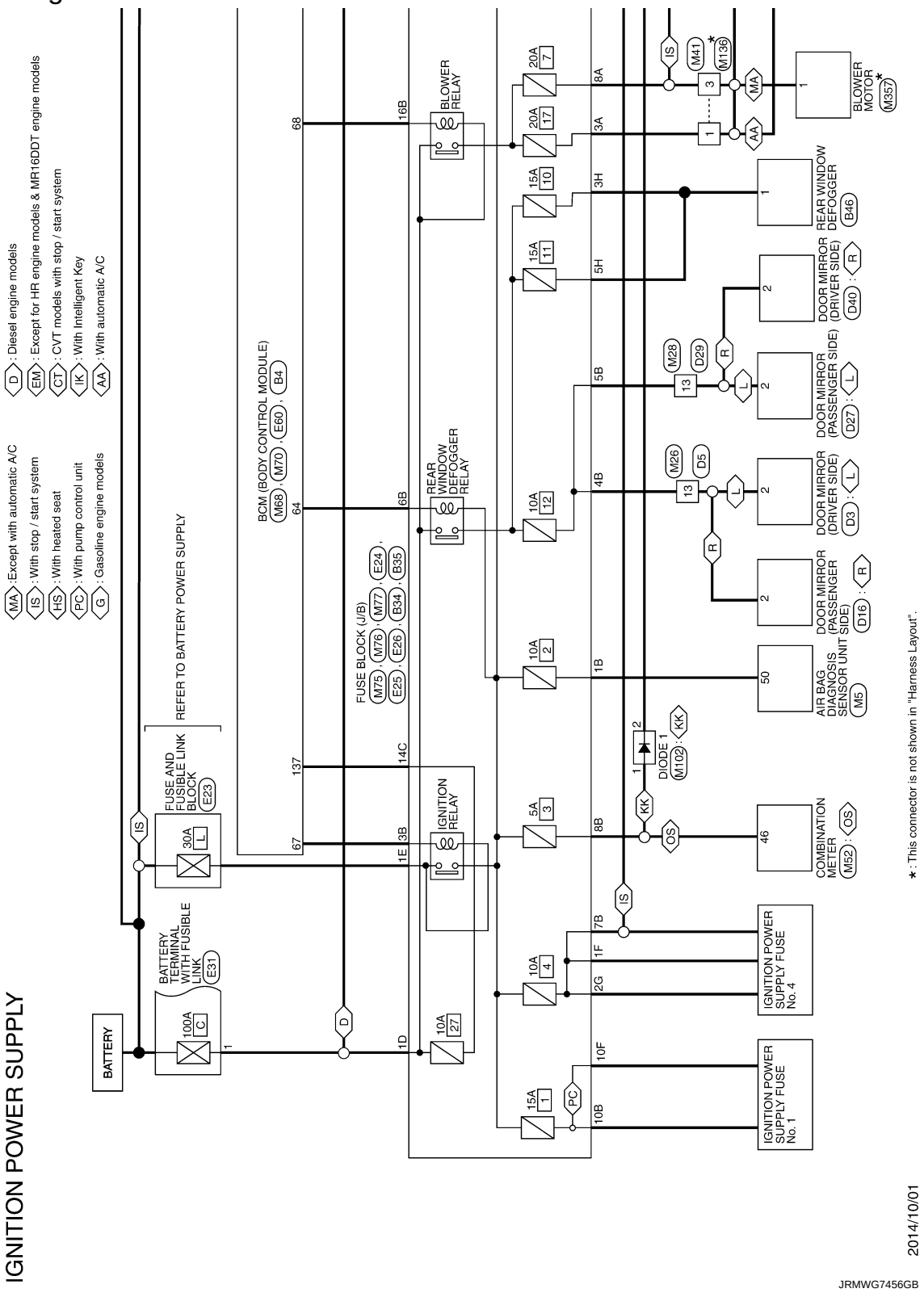
★ : This connector is not shown in "Harness Layout".

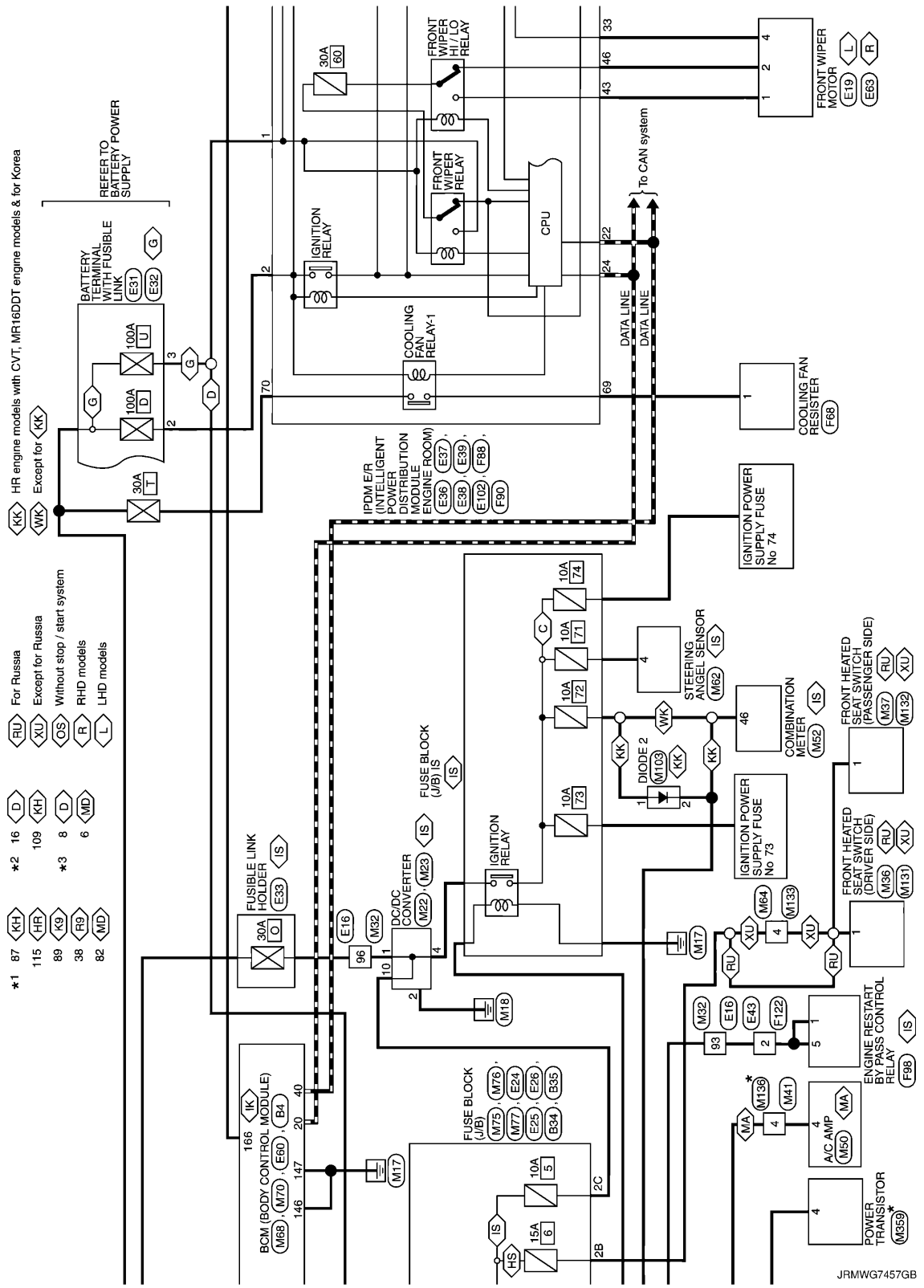
2014/10/01

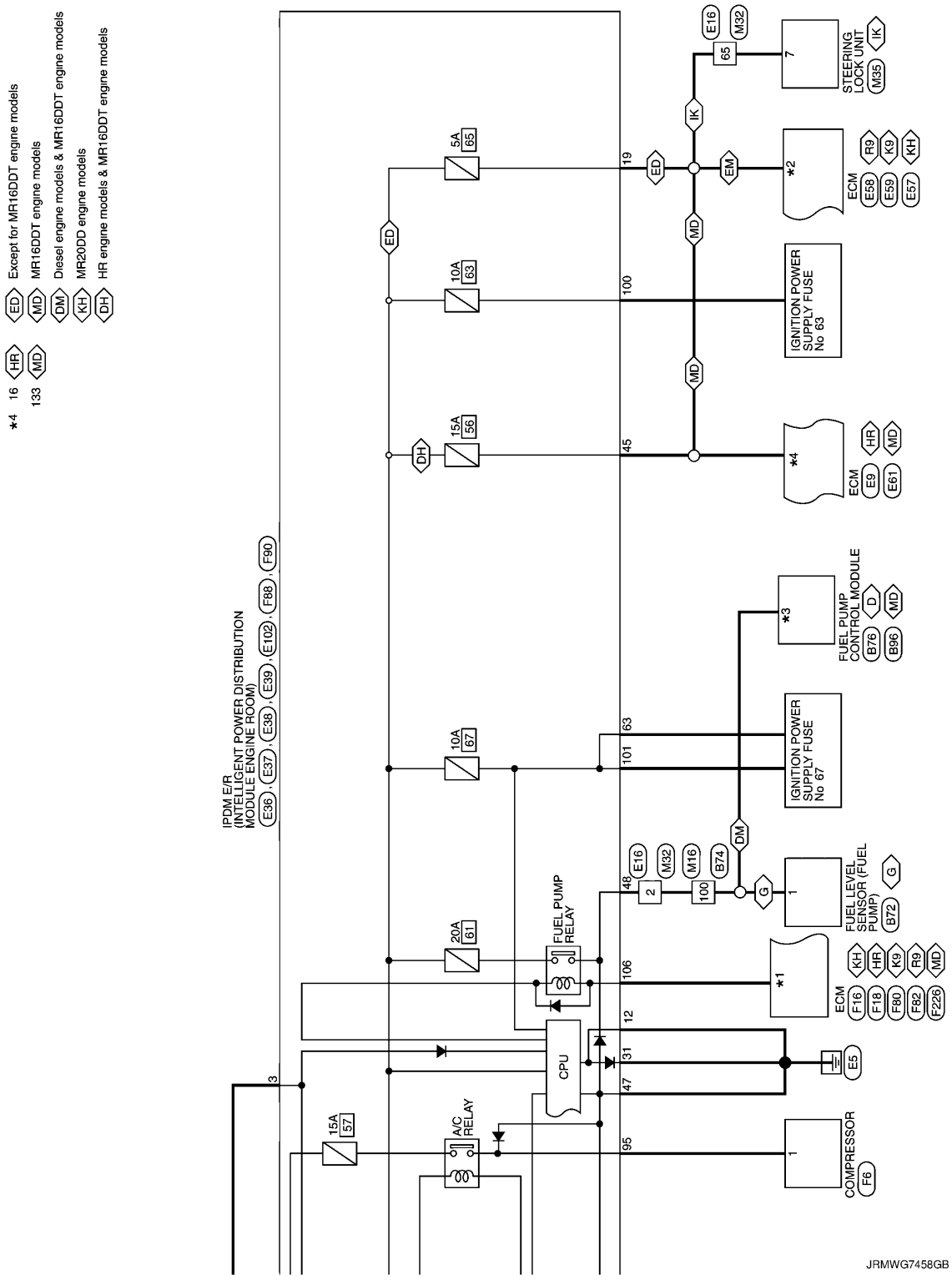
JRMWG7455GB

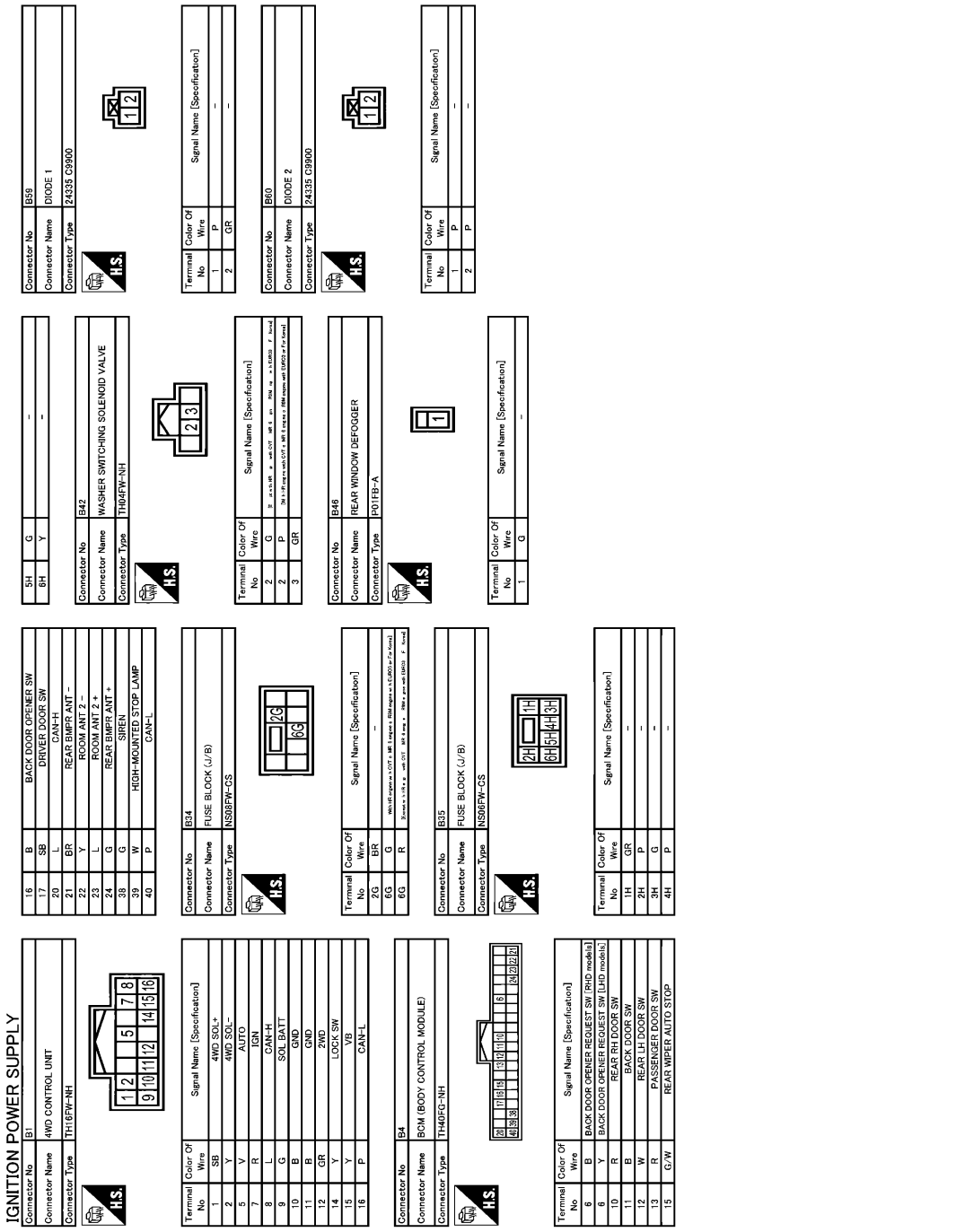
Wiring Diagram - IGNITION POWER SUPPLY -

INFOID:0000000010464070




HR engine models with CVT, MR16DDT engine models & for Korea
Except for
For Russia
Except for Russia
Without stop / start system
RHD models
LHD models
REFER TO BATTERY POWER SUPPLY
BATTERY TERMINAL WITH FUSIBLE LINK
IGNITION RELAY
FRONT WIPER RELAY
FRONT WIPER HI / LO RELAY
CPU
To CAN system
FRONT WIPER MOTOR
COOLING FAN RELAY-1
DATA LINE
COOLING FAN RESISTER
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
IGNITION POWER SUPPLY FUSE No. 74
IGNITION POWER SUPPLY FUSE No. 73
STEERING ANGEL SENSOR
COMBINATION METER
DIODE 2
FRONT HEATED SEAT SWITCH (PASSENGER SIDE)
FRONT HEATED SEAT SWITCH (DRIVER SIDE)
FUSIBLE LINK HOLDER
DC/DC CONVERTER
FUSE BLOCK (J/B) IS
FUSE BLOCK (J/B)
BCM (BODY CONTROL MODULE)
ENGINE RESTART BY PASS CONTROL RELAY
A/C AMP
POWER TRANSISTOR
JRMWG7457GB


ED Except for MR16DDT engine models
MD MR16DDT engine models
DM Diesel engine models & MR16DDT engine models
KH MR20DD engine models
DH HR engine models & MR16DDT engine models
*4 16 HR
133 MD
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E36, E37, E38, E39, E102, F88, F90
5A 65
10A 63
15A 56
10A 67
20A 61
15A 57
FUEL PUMP RELAY
A/C RELAY
CPU
IGNITION POWER SUPPLY FUSE No 63
IGNITION POWER SUPPLY FUSE No 67
FUEL PUMP CONTROL MODULE
FUEL LEVEL SENSOR (FUEL PUMP)
COMPRESSOR
STEERING LOCK UNIT
ECM
JRMWG7458GB



JRMWG7459GB

IGNITION POWER SUPPLY

Connector No	B61
Connector Name	DIODE 3
Connector Type	24335 C9900



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

Connector No	B72
Connector Name	FUEL LEVEL SENSOR (FUEL PUMP)
Connector Type	E08FGY-RS

Terminal No	Color Of Wire	Signal Name [Specification]
1	G	– [With MR16 engine]
1	R	– [Except with MR16 engine]
2	G	–
3	B	– [Except with MR16 engine]
3	BR	– [With MR16 engine]
5	B	–

Connector No	B74
Connector Name	WIRE TO WIRE
Connector Type	TH80MW–CS16–TM4



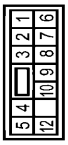
Terminal No	Color Of Wire	Signal Name [Specification]
1	P	–
2	L	–
3	LG	–
4	P	–
9	SB	–
20	G	– [With gasoline engine]
20	L	[With diesel engine]
21	B	–
24	G	– [With diesel engine]
24	R	– [With MR16 engine]
25	BR	–
55	LG	–
66	GR	–
74	R	–
79	V	–
84	L	–
85	W	–
89	BG	[redacted]
89	W	[redacted]
90	BR	–
93	Y	–
94	P	–
98	L	–
99	LG	–
100	GR	– [With diesel engine]
100	R	[With HR engine]
100	W	– [With MR16 engine]

Connector No	B76
Connector Name	FUEL PUMP CONTROL MODULE
Connector Type	FEA02FBR-RZ



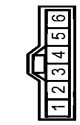
Terminal No	Color Of Wire	Signal Name [Specification]
7	B	–
8	GR	–

Connector No	B78
Connector Name	PUMP CONTROL UNIT
Connector Type	NS12FW-CS



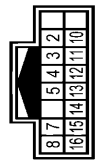
Terminal No	Color Of Wire	Signal Name [Specification]
1	SB	PUMP MOTOR+
2	L	PUMP MOTOR–
3	L	WASHER MOTOR–
4	LG	WASHER MOTOR+
5	B	GND
6	V	SIGNAL GND
7	BG	[redacted]
7	W	[redacted]
8	BR	FROM CAMERA C/U TO PUMP
9	SB	RR WASHER SW
10	P	FR WASHER SW
12	P	IGN

Connector No	B96
Connector Name	FUEL PUMP CONTROL MODULE
Connector Type	TB06FB



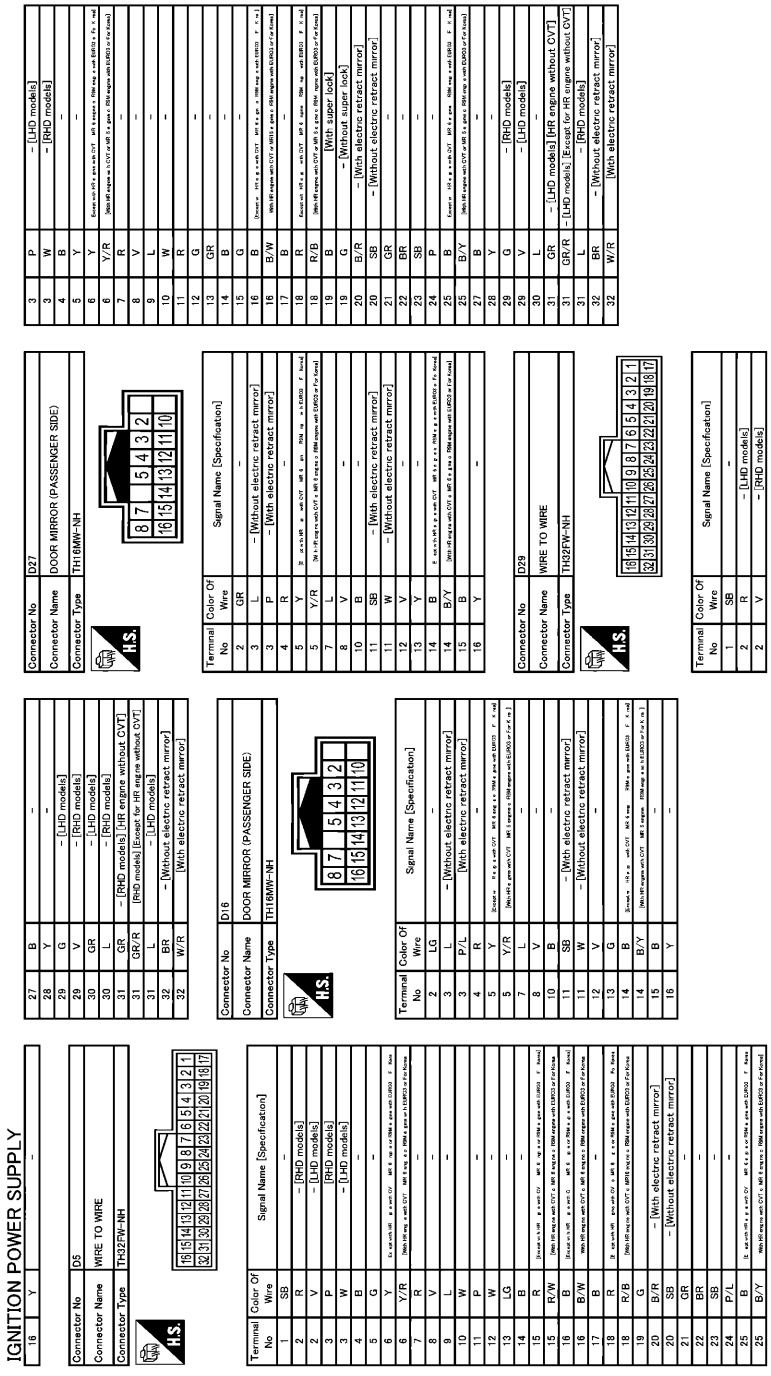
Terminal No	Color Of Wire	Signal Name [Specification]
1	G	F/PUMP+
2	BR	F/PUMP–
3	B	GND
4	BR	FPCCK
5	R	FPC
6	W	POWER

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

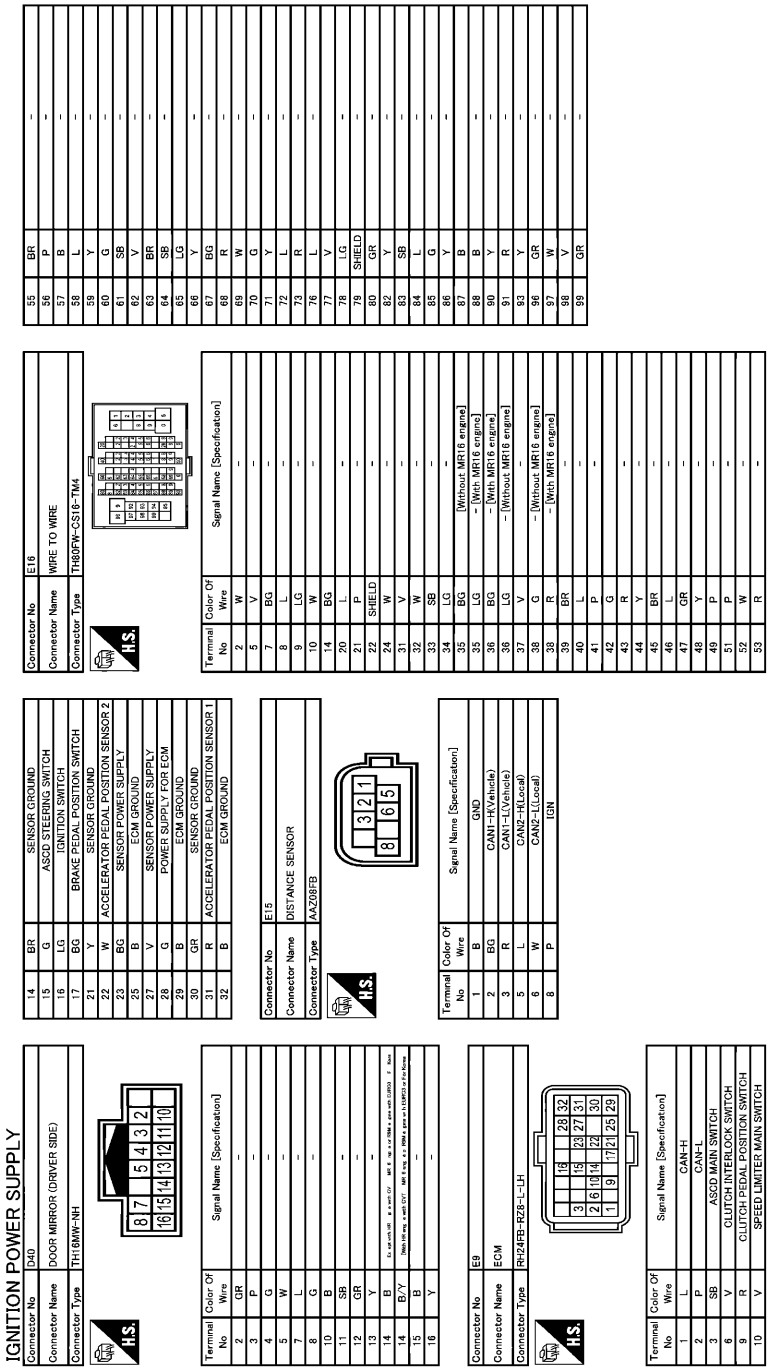


Terminal No	Color Of Wire	Signal Name [Specification]
2	LG	–
3	P	– [Without electric retract mirror]
3	P/L	– [With electric retract mirror]
4	G	–
5	W	–
7	GR	–
8	G	–
10	B	–
11	SB	–
12	GR	–
13	G	–
14	B	[redacted]
14	B/Y	[redacted]
15	B	–

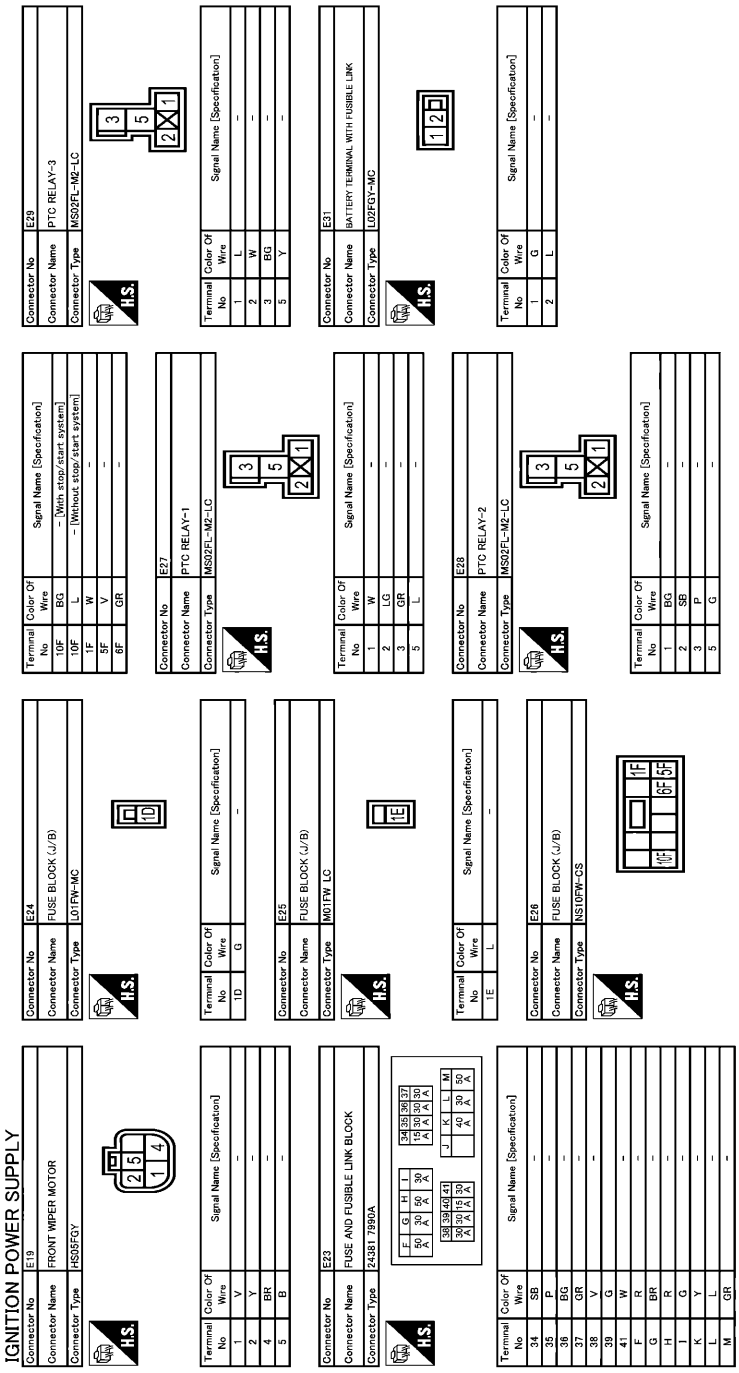
JRMWG7460GB



JRMWG7461GB



JRMWG7462GB

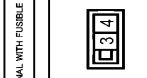


JRMWG7463GB

IGNITION POWER SUPPLY

Connector No	E32
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FBR-MC

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
3	R	– [With gasoline engine]
3	W	– [With diesel engine]
4	W	–

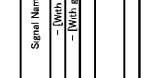
Connector No	E33
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24380 JL00A

H.S.

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

Connector No	E36
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
1	G	– [With diesel engine]
1	R	– [With gasoline engine]
2	L	–

Connector No	E37
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FGY-CS

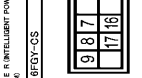
H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
3	P	–
4	GR	–
7	L	–
8	L	– [For grille shutter]
8	W	– [Except for grille shutter]
9	GR	–
12	GR	
16	G	–
17	G	[illegible]
17	W	[illegible]

Connector No	E38
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH24FGY-NH

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
19	LG	–
21	SB	–
22	P	–
24	L	–
25	G	–
26	B	–
27	BG	–
28	LG	–
29	P	– [With MR16 engine]
29	V	– [Without MR16 engine]
30	BG	– [With MR16 engine]
30	Y	– [Without MR16 engine]
31	GR	–
32	SB	–
33	BR	–
39	L	–
40	P	–
41	W	– [Without MR16 engine]
41	Y	– [With MR16 engine]
42	R	– [Without MR16 engine]
42	V	– [With MR16 engine]

Connector No	E39
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	renault 243405409R

H.S.



Terminal No	Color Of Wire	Signal Name [Specification]
43	V	–
44	R	–
45	LG	– [With MR16 engine]
45	P	– [Without MR16 engine]
46	Y	–
47	GR	–
48	W	–

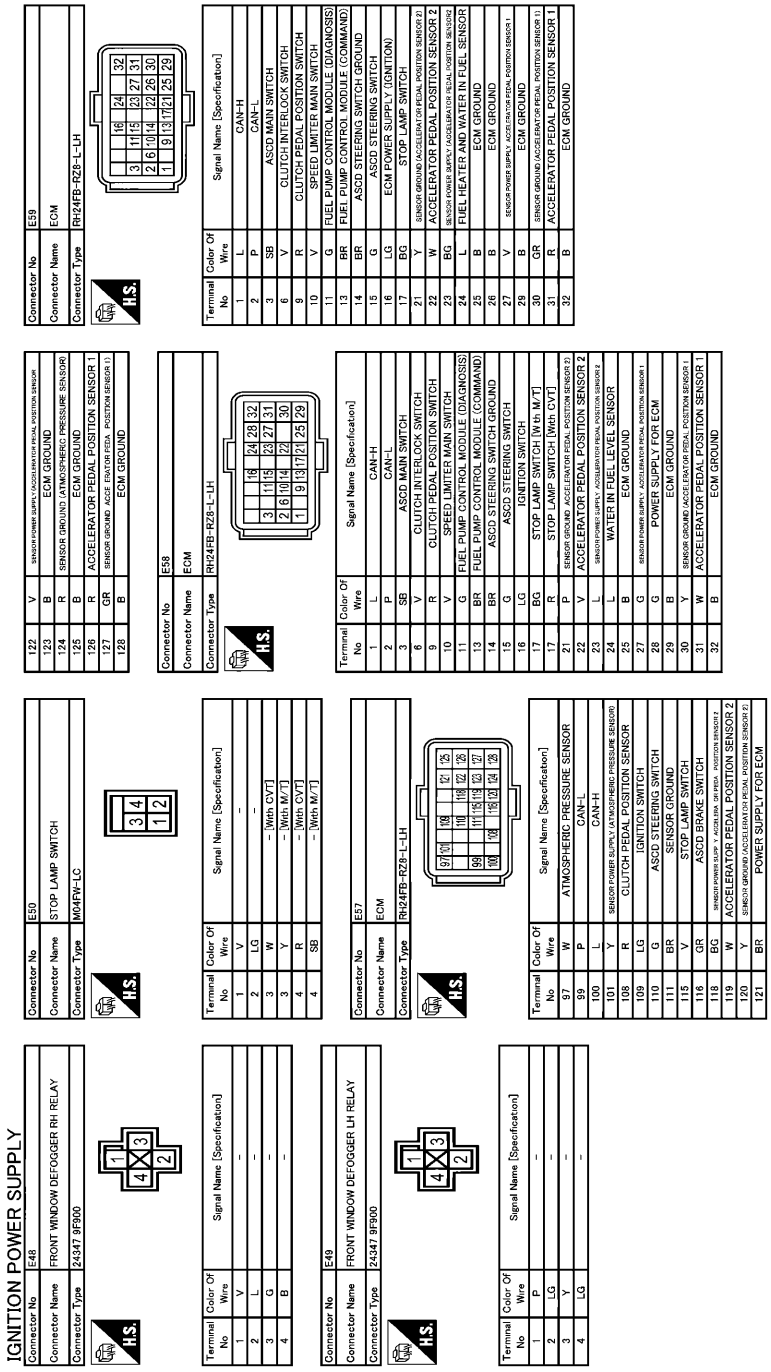
Connector No	E43
Connector Name	WIRE TO WIRE
Connector Type	M02NW-LC

H.S.

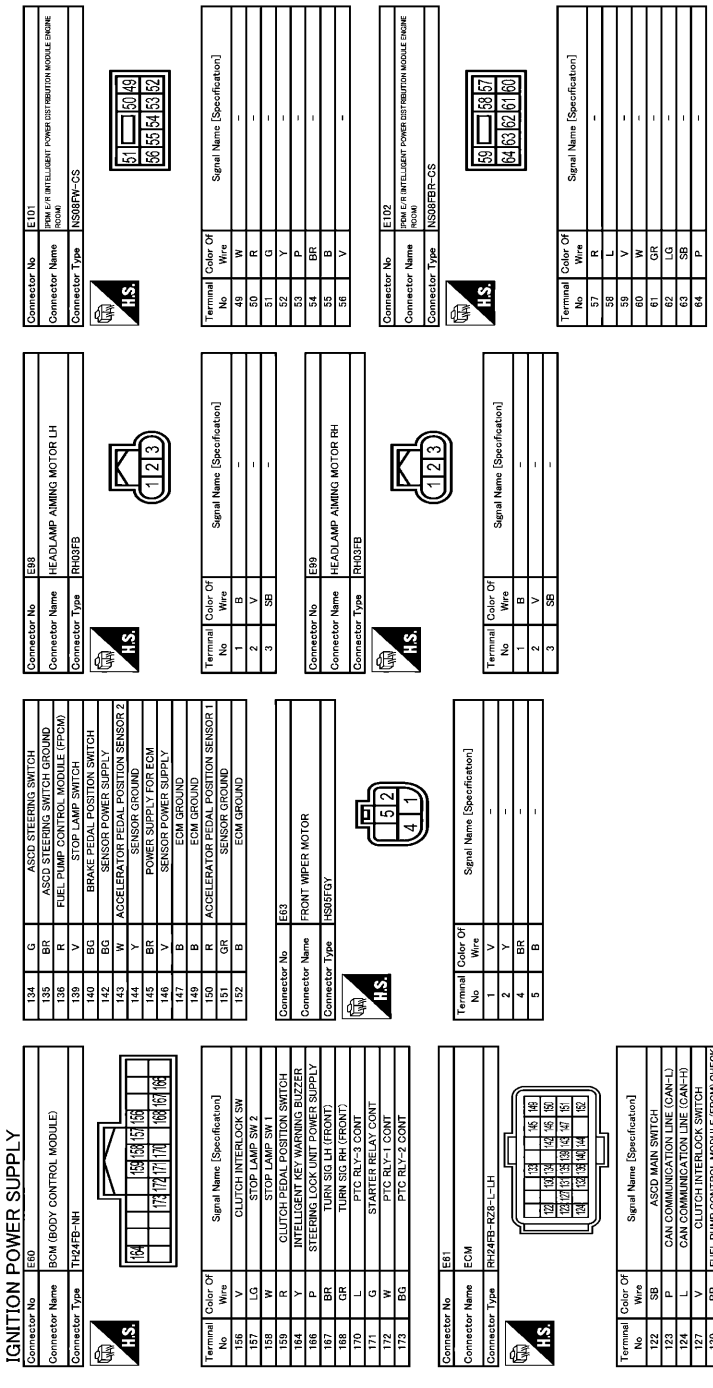


Terminal No	Color Of Wire	Signal Name [Specification]
1	L	–
2	Y	–

JRMWG7464GB



JRMWG7465GB



JRMWG7466GB

IGNITION POWER SUPPLY

Connector No	F1
Connector Name	TCM
Connector Type	RH40FB-RZ8-L-LH

H.S.

31	32	33	34	35	37	38	39	40	47	48
21	22	23	24	25	26			30	45	46
11	12		14		16	17				
1	2		4	5	6	7			41	42

Terminal No	Color Of Wire	Signal Name [Specification]
1	GR	ELECTRIC OIL PUMP RELAY
2	SB	–
4	Y	D RANGE SW
5	R	N RANGE SW
6	G	R RANGE SW
7	V	P RANGE SW
11	LG	SENSOR GROUND
12	BR	CVT FLUID TEMPERATURE SENSOR
14	P	SECONDARY PRESSURE SENSOR
16	L	PRIMARY PRESSURE SENSOR
17	P	G SENSOR [Except for HR engine with CVT]
23	P	G SENSOR [HR engine with CVT]
24	L	CAN-L
25	R	INPUT SPEED SENSOR
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
31	L	CAN H
32	SB	OUTPUT SPEED SENSOR
33	L	PRIMARY SPEED SENSOR
34	W	SELECT SOLENOID VALVE
35	R	TORQUE CONVERTER CLUTCH SOLENOID VALVE
37	SB	SECONDARY PRESSURE SOLENOID VALVE
38	G	PRIMARY PRESSURE SOLENOID VALVE
39	Y	GROUND
40	V	BATTERY POWER SUPPLY (MEMORY BACK-UP)
41	B	BATTERY POWER SUPPLY (MEMORY BACK-UP)
42	B	IGNITION POWER SUPPLY
45	V	IGNITION POWER SUPPLY
46	P	–
47	BG	–
48	BR	–

Connector No	F2
Connector Name	TCM
Connector Type	RH40FB-RZ8-L-RH

H.S.

33	34	35	37	38	39	40	47	48
23	24	25	26			30	45	46
11	12		16	17				
2	4	5	6	7			41	42

Terminal No	Color Of Wire	Signal Name [Specification]
2	SB	–
4	Y	–
5	R	D RANGE SW
6	G	N RANGE SW
7	V	R RANGE SW
11	LG	P RANGE SW
12	BR	SENSOR GROUND
16	L	CVT FLUID TEMPERATURE SENSOR
17	P	SECONDARY PRESSURE SENSOR
23	P	PRIMARY PRESSURE SENSOR
24	LG	CAN-L
25	R	INPUT SPEED SENSOR
26	BG	SENSOR POWER SUPPLY
30	GR	LINE PRESSURE SOLENOID VALVE
33	L	CAN H
34	W	OUTPUT SPEED SENSOR
35	R	PRIMARY SPEED SENSOR
37	SB	SELECT SOLENOID VALVE
38	G	TORQUE CONVERTER CLUTCH SOLENOID VALVE
39	Y	SECONDARY PRESSURE SOLENOID VALVE
40	V	PRIMARY PRESSURE SOLENOID VALVE
41	B	GROUND
42	B	GROUND
45	V	BATTERY POWER SUPPLY (MEMORY BACK-UP)
46	V	BATTERY POWER SUPPLY (MEMORY BACK-UP)
47	BR	IGNITION POWER SUPPLY
48	BR	IGNITION POWER SUPPLY

Connector No	F6
Connector Name	COMPRESSOR
Connector Type	RH02FB

H.S.

1	2

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

Connector No	F18
Connector Name	ECM
Connector Type	RH40FBR-RZ8-R-LH

H.S.

49	53	57	69	73	77	81	85	89	93
50	54		62		70	78	82	86	90	94
51	55	59	63		71	75	79		87	91	95
52	56	60	64		72		80			

Terminal No	Color Of Wire	Signal Name [Specification]
49	Y	FUEL INJECTOR DRIVER RELAY 1
50	V	HIGH PRESSURE FUEL PUMP RELAY
51	W	HIGH PRESSURE FUEL PUMP POWER SUPPLY
52	O	HIGH PRESSURE FUEL PUMP GROUND
53	W	FUEL INJECTOR DRIVER RELAY 2
54	B	GROUND (PUMP)
55	GR	GROUND (INJECTOR)
56	V	GROUND (INJECTOR)
57	Y	HEATED OXYGEN SENSOR
59	B	SENSOR GROUND (HEATED OXYGEN SENSOR)
60	R	SENSOR POWER SUPPLY (THROTTLE POSITION SENSOR)
62	B	ECM GROUND
63	G	THROTTLE POSITION SENSOR 1
64	Y	AIR FUEL RATIO (A/F) SENSOR 1
65	W	ETC RELAY POWER SUPPLY
69	R	THROTTLE CONTROL MOTOR (OPEN)
70	SHIELD	SHIELD
71	W	THROTTLE POSITION SENSOR 2
72	G	SENSOR GROUND (AIR FUEL RATIO (A/F) SENSOR 1)
73	L	THROTTLE CONTROL MOTOR (CLOSE)
75	B	SENSOR GROUND (THROTTLE POSITION SENSOR)
77	BG	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
78	Y	IGNITION SIGNAL No. 1
79	V	INTAKE MANIFOLD RUNNER CONTROL VALVE POWER SUPPLY
80	V	THROTTLE MOTOR RELAY
81	G	INTAKE MANIFOLD RUNNER CONTROL VALVE (CLOSE)
82	BR	IGNITION SIGNAL No. 2
85	Y	INTAKE MANIFOLD RUNNER CONTROL VALVE (OPEN)
86	W	IGNITION SIGNAL No. 3
87	GR	FUEL PUMP RELAY
88	V	HEATED OXYGEN SENSOR HEATER
90	SB	IGNITION SIGNAL No. 4
91	BG	ECM RELAY (SELF SHUT-OFF)
93	P	AIR FUEL RATIO (A/F) SENSOR 1 HEATER
94	G	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
95	GR	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE

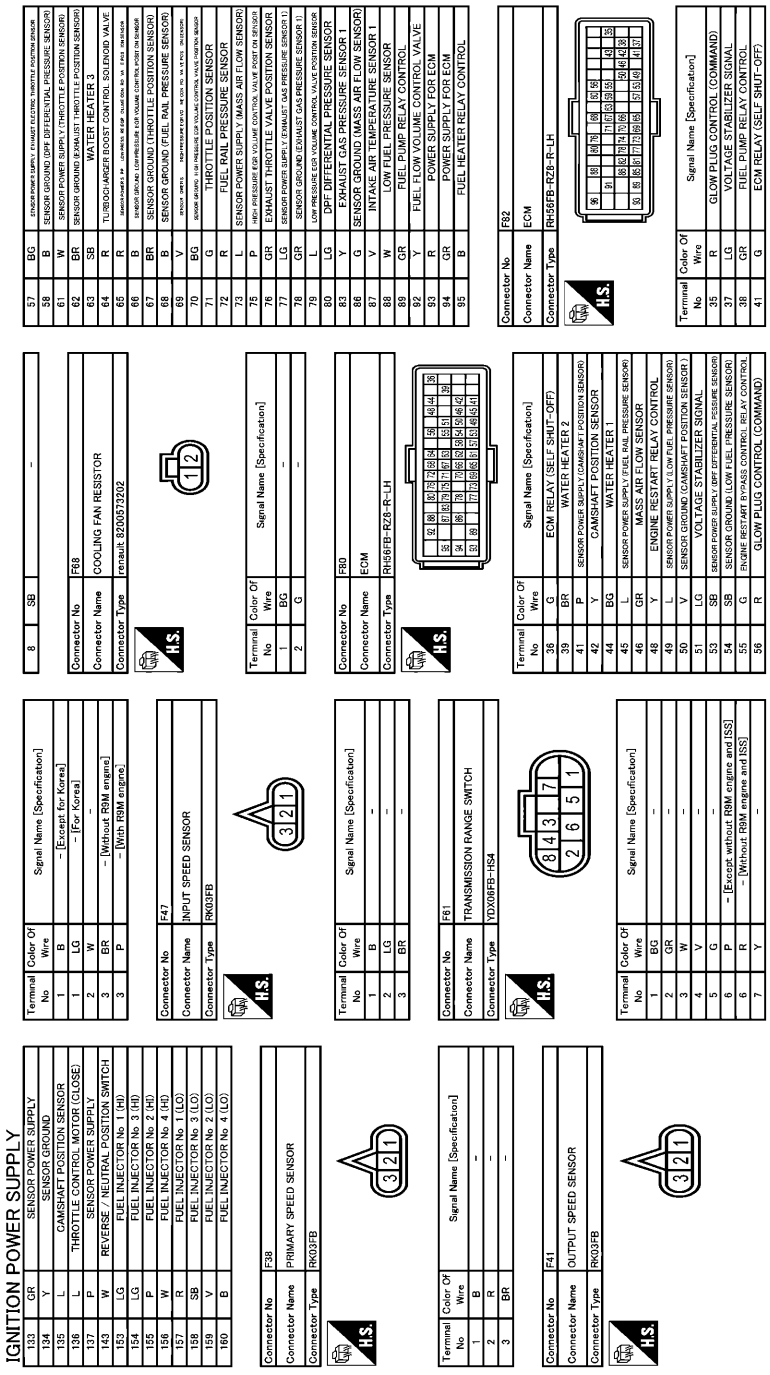
Connector No	F18
Connector Name	ECM
Connector Type	RH56FGY-RZ8-R-LH

H.S.

90	91			96	97			103	104
89	95		14	100	101	102	109	111	112
88	94			99	108	113	114	115	
87	93			98	107	110	116	117	

Terminal No	Color Of Wire	Signal Name [Specification]
97	V	TURBOCHARGER BOOST SENSOR
99	Y	HEATED OXYGEN SENSOR 1
100	B	SENSOR GROUND
102	W	INTAKE MANIFOLD PRESSURE SENSOR
106	BR	SENSOR GROUND
111	P	ECM RELAY (SELF SHUT OFF)
112	W	HEATED OXYGEN SENSOR 2
114	R	SENSOR GROUND
115	L	FUEL PUMP RELAY
117	G	SENSOR POWER SUPPLY
121	R	SENSOR POWER SUPPLY
122	B	SENSOR GROUND
123	G	ENGINE COMMUNICATION LINE
126	B	SENSOR GROUND
127	L	EXHAUST VALVE TIMING CONTROL POSITION SENSOR
132	R	THROTTLE CONTROL MOTOR (OPEN)

JRMWG7467GB



JRMWG7468GB

IGNITION POWER SUPPLY

42	Y	RESTART RELAY
43	R	FUEL FLOW ACTUATOR
46	P	THERMOPLUNGER RELAY 2
49	G	INTAKE MANIFOLD RUNNER CONTROL VALVE MOTOR ( )
50	BG	THERMOPLUNGER RELAY 1
53	Y	ENGINE COOLANT BYPASS VALVE SOLENOID VALVE
55	L	[redacted]
55	V	[redacted]
56	B	CRANKSHAFT POSITION SENSOR (POS)
57	SB	THERMOPLUNGER RELAY 3
59	Y	[redacted]
60	R	SENSOR POWER SUPPLY (CRANKSHAFT POSITION SENSOR)
63	LG	THERMOPLUNGER DIAGNOSIS 1
65	SB	SENSOR GROUND
66	SB	SENSOR GROUND (FUEL PRESSURE SENSOR)
67	W	GLOW PLUG CONTROL (DIAGNOSIS)
68	G	ENGINE COMMUNICATION LINE
69	L	LOW PRESSURE EGR VOLUME CONTROL VALVE POSITION SENSOR
70	Y	SENSOR GROUND (CAMSHAFT POSITION SENSOR)
71	L	CAMSHAFT POSITION SENSOR
73	GR	SENSOR GROUND (FUEL RAIL PRESSURE SENSOR)
74	R	INTAKE AIR TEMPERATURE SENSOR 1
76	Y	THERMOPLUNGER DIAGNOSIS 2
77	BR	FUEL RAIL PRESSURE SENSOR
78	P	MASS AIR FLOW SENSOR
80	W	REVERSE / NEUTRAL POSITION SWITCH
81	L	SENSOR GROUND (TURBOCHARGER BOOST SENSOR)
82	G	SENSOR GROUND (MASS AIR FLOW SENSOR)
85	V	TURBOCHARGER BOOST SENSOR
86	R	INTAKE AIR TEMPERATURE SENSOR 2
88	W	FUEL PRESSURE SENSOR
89	BR	A/F SENSOR HEATER
91	G	SENSOR POWER SUPPLY (FUEL RAIL PRESSURE SENSOR)
93	B	FUEL HEATER RELAY CONTROL
98	R	POWER SUPPLY FOR ECM (BACK-UP)

Connector No	F88
Connector Name	[redacted] (IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM))
Connector Type	YLA06FGY

H.S.

										65		67
										68	69	70

Terminal No	Color Of Wire	Signal Name [Specification]
65	G	–
67	BR	[redacted]
67	W	[redacted]
68	GR	[redacted]
69	BG	– [With MR18 engine]
69	P	– [Without MR16 engine]
70	LG	

Connector No	F89
Connector Name	[redacted] (IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM))
Connector Type	11H24FB-NH

H.S.

82	81	80	79	78	77	76		74	73	72	71	
94				90	89		86	85	84	83		

Terminal No	Color Of Wire	Signal Name [Specification]
71	L	–
72	P	–
73	W	[Without ISS]
73	Y	– [With ISS]
74	G	[With ISS]
74	R	– [Without ISS]
76	GR	–
77	G	– [With diesel engine]
77	P	– [With gasoline engine]
78	SB	–
79	LG	–
80	W	–
81	P	–
82	Y	–
83	LG	– [With diesel engine]
83	O	– [With gasoline engine]
84	LG	– [Without gasoline engine]
84	W	– [With diesel engine]
85	P	– [With MR16 engine or diesel engine]
85	Y	– [With HR engine or MR20 engine]
86	R	– [With ISS]
86	Y	– [Without ISS]
89	SB	– [With diesel engine]
89	W	[With gasoline engine]
90	L	–
94	SB	–

Connector No	F80
Connector Name	[redacted] (IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM))
Connector Type	NS16FW-CS

H.S.

101	100						97	96	95			
	109	108			106	105		103	102			

Terminal No	Color Of Wire	Signal Name [Specification]
95	P	–
96	GR	– [With K9K engine]
96	L	– [With R9M engine] [Except for Korea]
96	R	– [With gasoline engine or For Korea with R9M engine]
97	L	– [With ISS]
97	V	– [Without ISS]
100	BG	– [With CVT] [With diesel engine]
100	BR	– [With CVT] [With gasoline engine]
100	GR	– [With M/T]
101	W	–
102	GR	–
103	G	– [With gasoline engine with ISS]
103	R	[With diesel engine]
103	Y	– [With gasoline engine without ISS]
105	BR	– [With MR20 engine without ISS]
105	L	– [With diesel engine]
105	R	[With HR engine without ISS or gasoline engine with ISS]
106	GR	– [With diesel engine]
106	L	– [With gasoline engine]
108	L	– [With gasoline engine]
108	R	– [With diesel engine]
109	G	–

Connector No	F88
Connector Name	ENGINE RESTART BYPASS CONTROL RELAY
Connector Type	MS02FL-MZ-LC

H.S.

												3
											5	
										2	1	

Terminal No	Color Of Wire	Signal Name [Specification]
1	L	–
2	G	– [Without MR18 engine]
2	W	– [With MR18 engine]
3	R	–
5	W	–

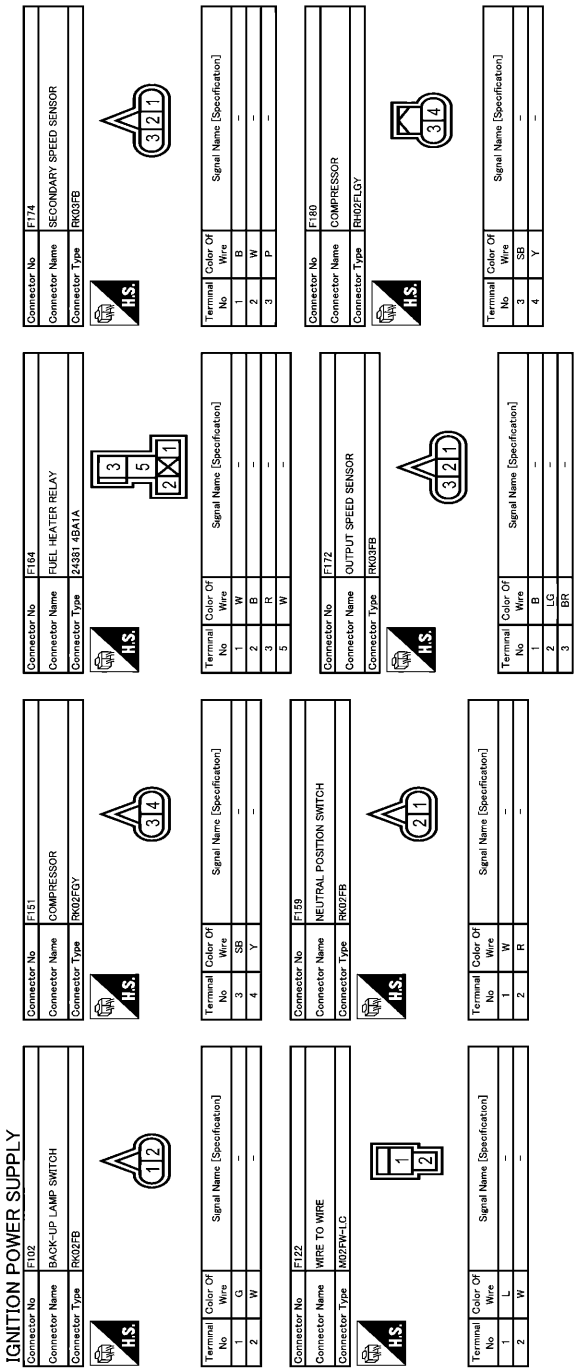
Connector No	F100
Connector Name	REVERSE / NEUTRAL POSITION SWITCH
Connector Type	FEA03FG

H.S.

												3
											2	
										1		

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

JRMWG7469GB



JRMWG7470GB

IGNITION POWER SUPPLY

Connector No	F226
Connector Name	ECM
Connector Type	MA855FB-MEB10-LH

Terminal No	Color Of Wire	Signal Name [Specification]
56	R	TURBOCHARGER BYPASS CONTROL VALVE POWER SUPPLY
57	W	EGR VOLUME CONTROL VALVE MOTOR (-)
58	R	EGR VOLUME CONTROL VALVE MOTOR (+)
60	B	ECM GROUND
61	W	SENSOR POWER SUPPLY
63	B	SENSOR GROUND
64	SHIELD	SHIELD
65	V	ELECTRIC WASTEGATE CONTROL ACTUATOR
66	R	SENSOR POWER SUPPLY
67	W	CAMSHAFT POSITION SENSOR
68	BR	EGR VOLUME CONTROL VALVE
69	LG	EXHAUST VALVE TIMING CONTROL POSITION SENSOR
71	B	SENSOR GROUND
72	B	SENSOR GROUND
73	Y	SENSOR POWER SUPPLY
74	G	AIR FUEL RATIO (A/F) SENSOR 1
75	L	MULTI-WAY CONTROL VALVE
76	R	EGR TEMPERATURE SENSOR
77	V	INTAKE AIR TEMPERATURE SENSOR 2
78	R	SENSOR GROUND
79	Y	AIR FUEL RATIO (A/F) SENSOR 1
80	W	THROTTLE POSITION SENSOR 2
81	BR	ECM RELAY (SELF SHUT-OFF)
82	Y	FUEL PUMP RELAY
83	B	SENSOR POWER SUPPLY
84	W	HEATED OXYGEN SENSOR 2
85	R	SENSOR GROUND
86	L	ENGINE COMMUNICATION LINE (DC/DC CONVERTER)
87	W	ENGINE RESTART BYPASS CONTROL RELAY
88	G	THROTTLE POSITION SENSOR 1
89	LG	VOLTAGE STABILIZER SIGNAL
94	Y	ENGINE RESTART RELAY CONTROL SIGNAL
95	BR	IGNITION SIGNAL No. 2
96	Y	IGNITION SIGNAL No. 1
97	Y	THROTTLE MOTOR RELAY
98	R	ENGINE OIL PRESSURE CONTROL SOLENOID VALVE

101	SB	IGNITION SIGNAL No. 4
103	SB	PNP SIGNAL
104	W	IGNITION SIGNAL No. 3
105	BR	TURBOCHARGER BYPASS CONTROL VALVE
106	R	ELECTRIC WASTEGATE CONTROL ACTUATOR POWER SUPPLY
107	R	ELECTRIC WASTEGATE CONTROL ACTUATOR MOTOR (+)
108	G	ELECTRIC WASTEGATE CONTROL ACTUATOR MOTOR (-)
110	B	EOM GROUND
111	W	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
112	G	EXHAUST VALVE TIMING CONTROL SOLENOID VALVE
113	R	POWER SUPPLY FOR ECM
114	L	SPARK PLUG WITH INTEGRATED IGNITION COIL CONTROL SOLENOID VALVE
115	BG	SWIRL CONTROL VALVE SYSTEM CONTROL SOLENOID VALVE
116	P	AIR FUEL RATIO (A/F) SENSOR 1 HEATER
117	G	HEATED OXYGEN SENSOR 2 HEATER
118	GR	THROTTLE CONTROL MOTOR POWER SUPPLY
119	GR	THROTTLE CONTROL MOTOR (OPEN)
120	BR	THROTTLE CONTROL MOTOR (CLOSE)

Connector No	M5
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX



Terminal No	Color Of Wire	Signal Name [Specification]
25	SB	INFLATOR AS-
26	V	INFLATOR AS+
27	B	GND
29	G	INFLATOR DR-
30	Y	INFLATOR DR+
31	P	ECZS
36	BG	CUT OFF SW(DEACT)
37	R	CUT OFF SW(ACT)
39	SHIELD	GND
41	L	ECZS+
45	P	CAN-L
46	L	CAN-H
47	GR	TELLTALE OFF
48	W	TELLTALE ON
49	BG	ACL [For curtain air bag module and HR engine without CVT]
49	BR	ACL [Except for curtain air bag module and HR engine without CVT]

50	R	IGN

Connector No	M7
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH



Terminal No	Color Of Wire	Signal Name [Specification]
1	B	GND
2	Y	BATTERY
3	SB	IGN
7	R	INDICATOR L
8	P	INDICATOR R
27	L	V-CAN-H
28	R	V-CAN-L
36	BR	FROM C/U TO PUMP
37	V	SIGNAL GND
38	GR	FROM PUMP TO C/U

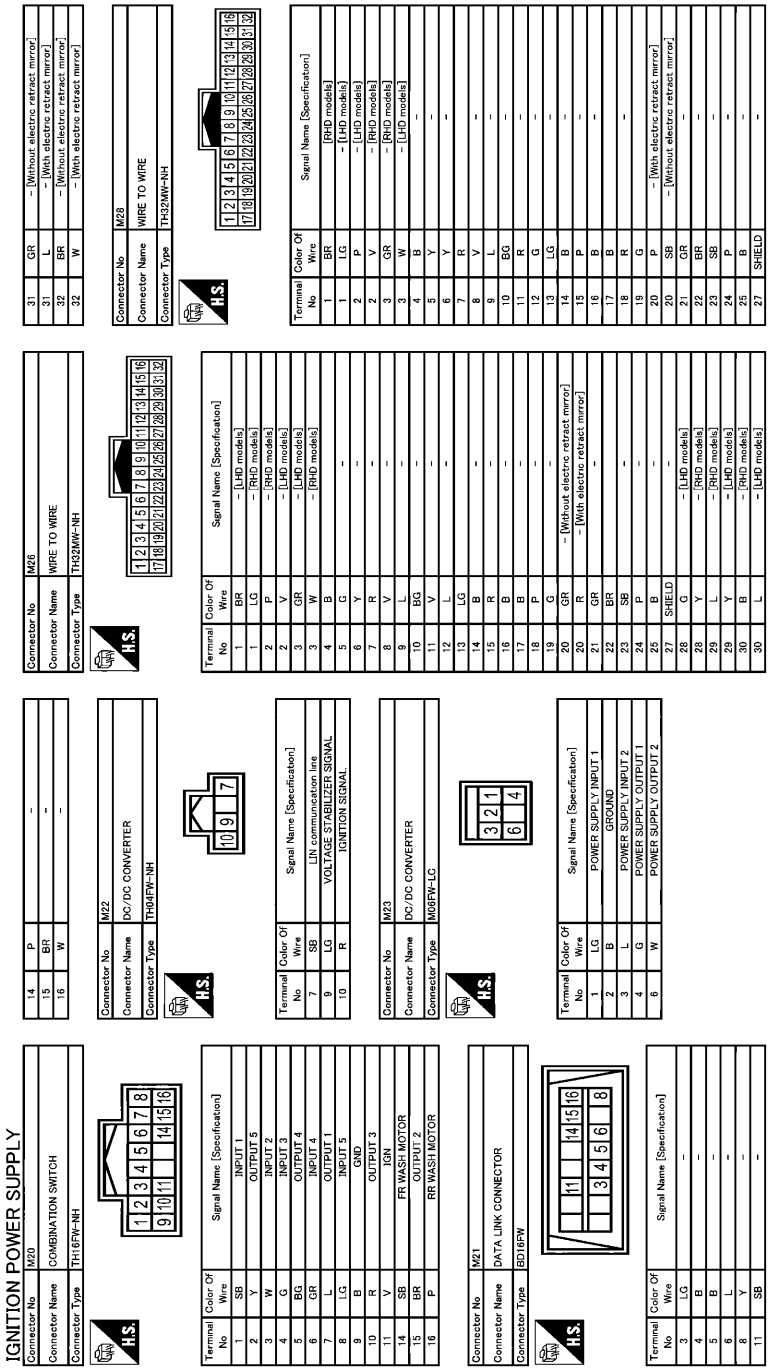
Connector No	M10
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2

Terminal No	Color Of Wire	Signal Name [Specification]
2	L	SOUND SIGNAL FRONT SPEAKER LH (+)
3	V	SOUND SIGNAL FRONT SPEAKER LH (-)
4	W	SOUND SIGNAL REAR SPEAKER LH (+)
5	Y	SOUND SIGNAL REAR SPEAKER LH (-)
7	LG	IGNITION SIGNAL
8	R	ILLUMINATION SIGNAL (-)
9	BR	ILLUMINATION SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	LG	SOUND SIGNAL REAR SPEAKER RH (+)
14	GR	SOUND SIGNAL REAR SPEAKER RH (-)
17	P	DONGLE / AUDIO LINK
18	P	VEHICLE SPEED SIGNAL (8-PULSE)
19	L	BATTERY
20	B	GROUND

Connector No	M16
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No	Color Of Wire	Signal Name [Specification]
1	GR	-
2	P	-
3	SB	-
4	P	-
9	SB	-
20	G	-
21	B	-
24	G	- [Without MR16 engine]
24	R	- [With MR16 engine]
25	BR	-
55	LG	-
66	GR	-
74	R	-
79	V	-
84	L	-
85	W	-
89	GR	-
90	BR	-
93	Y	-
94	P	-
98	L	-
99	LG	-
100	R	-

JRMWG7471GB



JRMWG7472GB

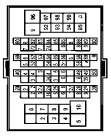
IGNITION POWER SUPPLY

28	G	– [RHD models]
28	Y	– [LHD models]
29	L	– [LHD models]
29	Y	– [RHD models]
30	B	– [LHD models]
30	L	– [RHD models]
31	GR	– [Without electric retract mirror]
31	L	– [With electric retract mirror]
32	BR	– [Without electric retract mirror]
32	W	– [With electric retract mirror]

Connector No	M29
Connector Name	ELECTRIC PARK BRAKE CONTROL UNIT
Connector Type	Renault 8200668609

Terminal No	Color Of Wire	Signal Name [Specification]
8	SB	DEMAND LAMP
9	BR	SW REL NO
10	R	SW REL NC
11	V	SW SUP 2
12	GR	MOTOR R+
13	R	B-MOTOR R
14	W	MOTOR L+
15	V	B-MOTOR L
16	L	V-CAN-H
17	P	V-CAN-L
18	BG	SW APP NO
19	G	SW APP NC
20	Y	SW SUP 1
22	W	IGN
24	LG	CLUTCH GND
25	G	CLUTCH IN
26	GR	CLUTCH SUP
27	G	MOTOR R–
28	B	GND
29	BR	MOTOR L–
30	B	GND

Connector No	M32
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No	Color Of Wire	Signal Name [Specification]
2	R	–
5	V	–
7	GR	–
8	P	–
9	SB	–
10	R	–
14	W	–
20	L	–
21	P	–
22	SHIELD	–
24	BR	–
31	V	–
32	GR	–
33	G	–
34	LG	–
35	BG	[Without MR16 engine]
35	LG	– [With MR16 engine]
36	BG	– [With MR16 engine]
36	LG	– [Without MR16 engine]
37	V	–
38	G	– [Without MR16 engine]
38	R	– [With MR16 engine]
39	BR	–
40	L	–
41	P	–
42	W	–
43	R	–
44	Y	–
45	LG	–
46	L	–
47	BG	–
48	V	–
49	P	–
51	BR	–
52	SB	–
53	LG	– [With Intelligent Key and HR engine without CVT]

53	W	[Except with Intel gent Key and HR eng ne without CVT]
55	BR	–
56	P	–
57	B	–
58	L	–
59	GR	–
60	G	–
61	SB	–
62	V	–
63	BR	–
64	Y	–
65	GR	–
66	P	–
67	L	–
68	R	–
69	W	–
70	G	–
71	Y	–
72	BG	–
73	R	–
76	L	–
77	V	–
78	LG	–
79	SHIELD	–
80	GR	–
82	Y	–
83	LG	–
84	SB	–
85	G	–
86	G	–
87	B	–
88	B	–
90	Y	–
91	L	–
93	W	–
96	LG	–
97	BR	–
98	V	–
99	R	–

Connector No	M33
Connector Name	EPS CONTROL UNIT
Connector Type	TH08FW-NH



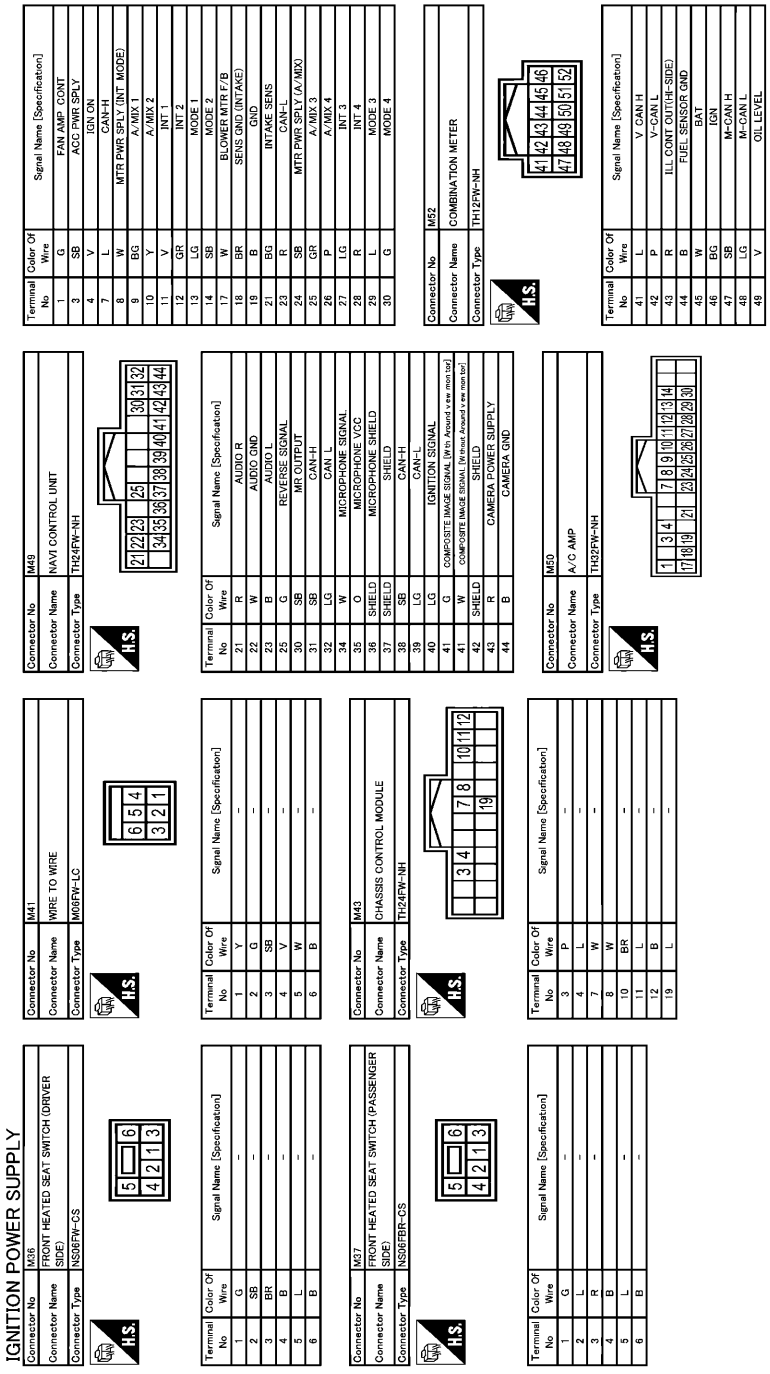
Terminal No	Color Of Wire	Signal Name [Specification]
1	P	CAN-L
2	L	CAN-H
4	SB	V IGN

Connector No	M35
Connector Name	STEERING LOCK UNIT
Connector Type	TH08FB-NH

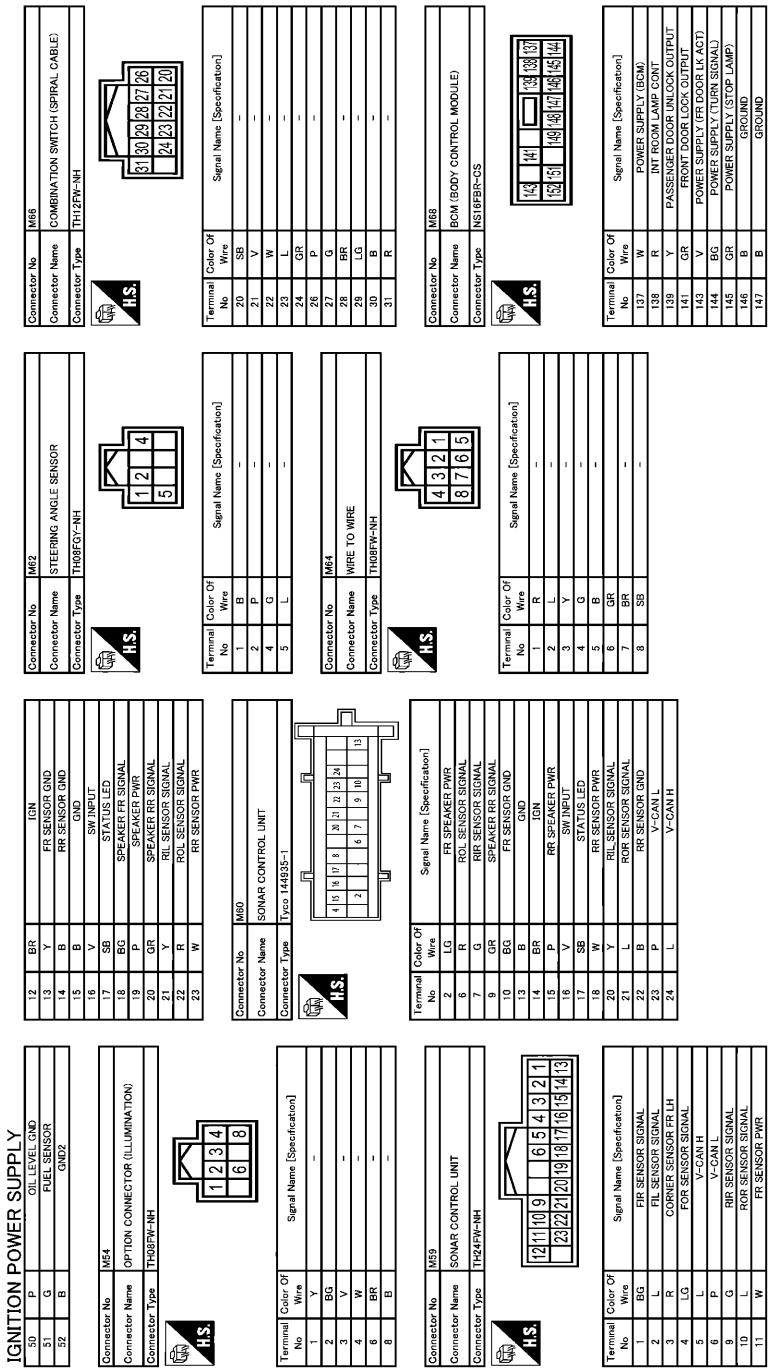


Terminal No	Color Of Wire	Signal Name [Specification]
1	B	STEERING LOCK UNIT GROUND
2	V	STEERING LOCK UNIT OPERATION POWER SUPPLY
3	L	STEERING LOCK UNIT CAN H
6	L	STEERING LOCK UNIT SENSORLINE
7	GR	STEERING LOCK UNIT SAFETYLINE
8	P	STEERING LOCK UNIT CAN L

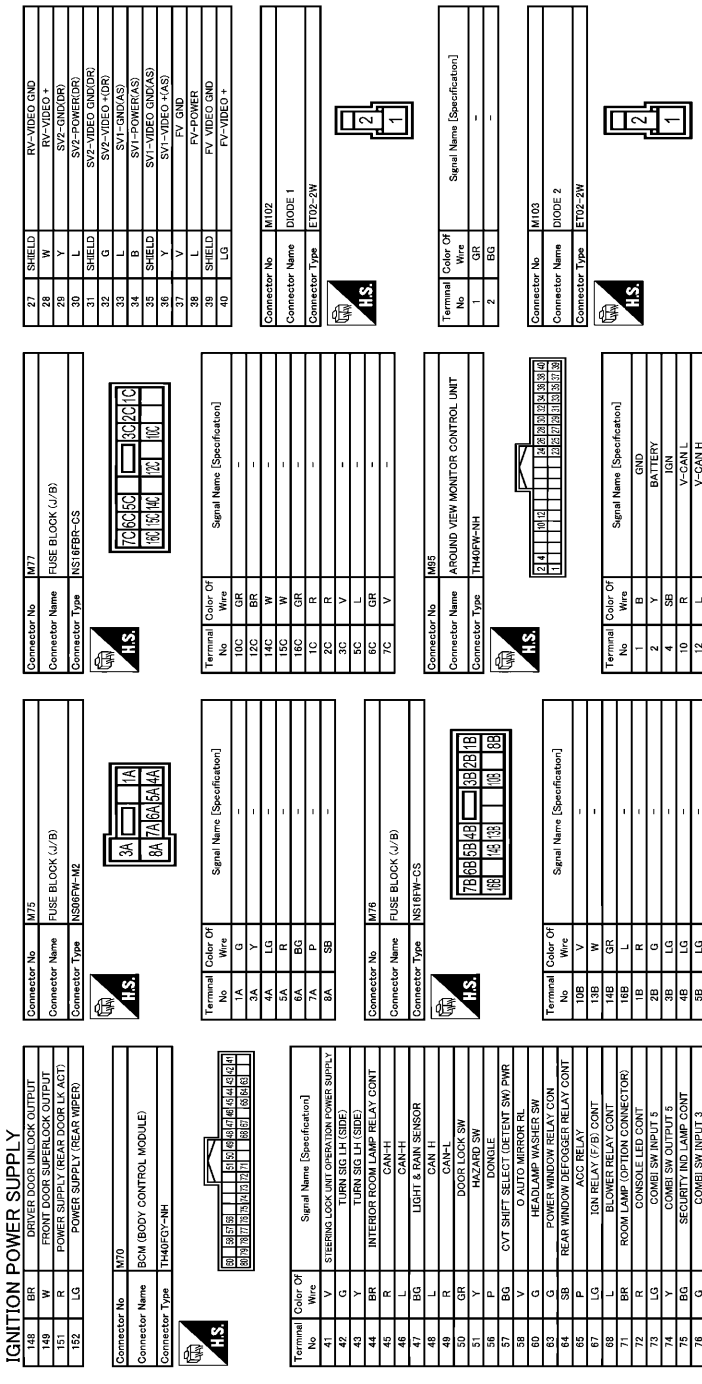
JRMWG7473GB



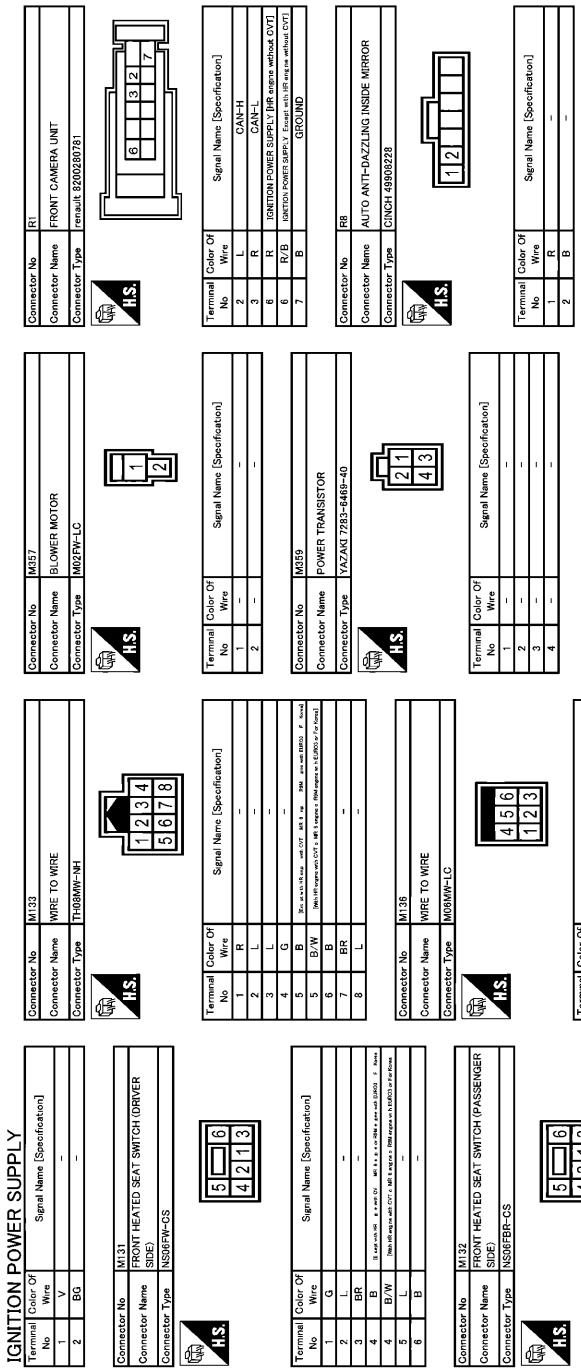
JRMWG7474GB



JRMWG7475GB



JRMWG7476GB



JRMWG7477GB

IGNITION POWER SUPPLY

Connector No	R17
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	JAA07FB

H.S.



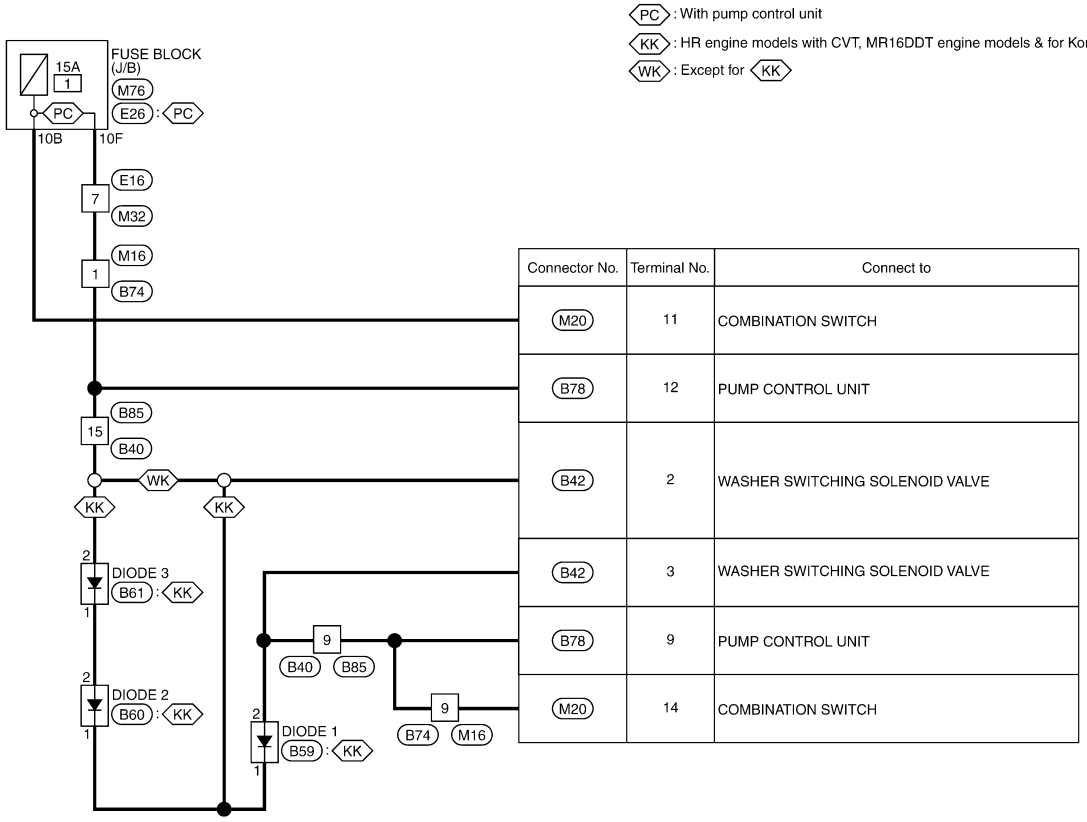
Terminal No	Color Of Wire	Signal Name [Specification]
1	R	-
2	B	-

JRMWG8307GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 1 -

INFOID:0000000011496563

IGNITION POWER SUPPLY FUSE No. 1



Connector No.	Terminal No.	Connect to
M20	11	COMBINATION SWITCH
B78	12	PUMP CONTROL UNIT
B42	2	WASHER SWITCHING SOLENOID VALVE
B42	3	WASHER SWITCHING SOLENOID VALVE
B78	9	PUMP CONTROL UNIT
M20	14	COMBINATION SWITCH

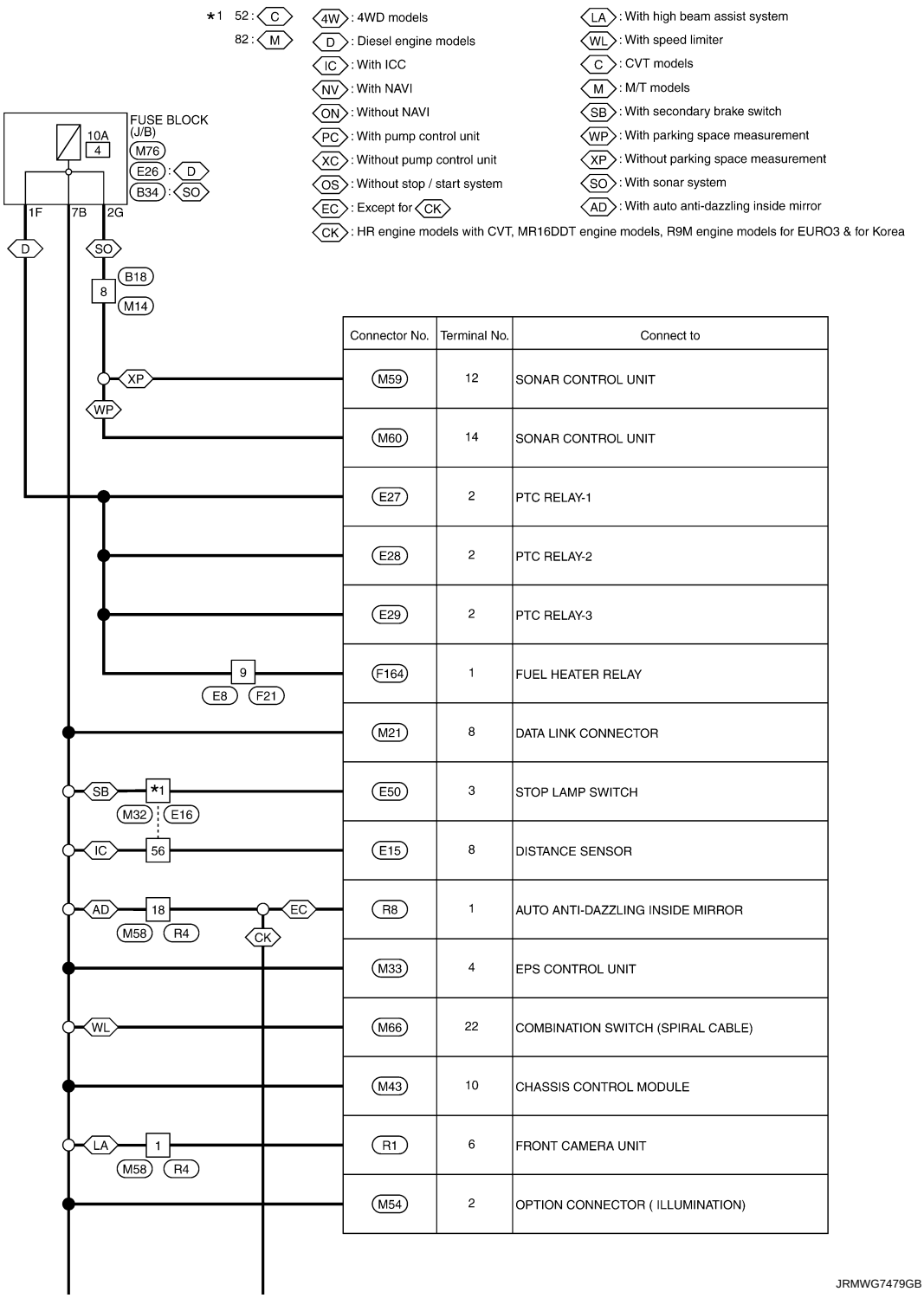
2014/10/01

JRMWG7478GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 4 -

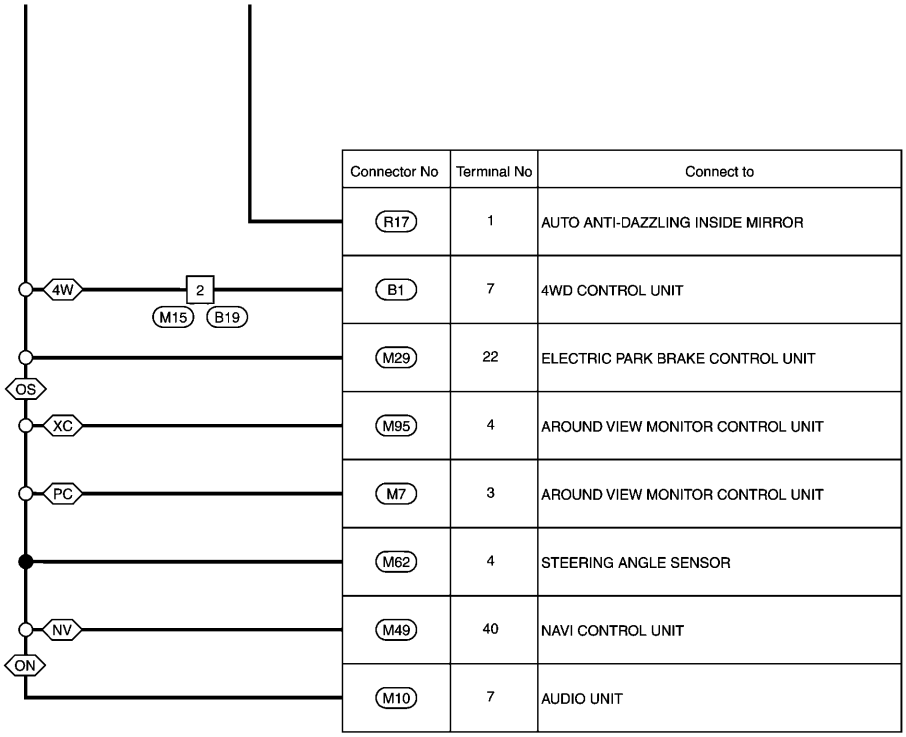
INFOID:0000000010464071

IGNITION POWER SUPPLY FUSE No. 4



Connector No.	Terminal No.	Connect to
M59	12	SONAR CONTROL UNIT
M60	14	SONAR CONTROL UNIT
E27	2	PTC RELAY-1
E28	2	PTC RELAY-2
E29	2	PTC RELAY-3
F164	1	FUEL HEATER RELAY
M21	8	DATA LINK CONNECTOR
E50	3	STOP LAMP SWITCH
E15	8	DISTANCE SENSOR
R8	1	AUTO ANTI-DAZZLING INSIDE MIRROR
M33	4	EPS CONTROL UNIT
M66	22	COMBINATION SWITCH (SPIRAL CABLE)
M43	10	CHASSIS CONTROL MODULE
R1	6	FRONT CAMERA UNIT
M54	2	OPTION CONNECTOR (ILLUMINATION)

JRMWG7479GB



Connector No	Terminal No	Connect to
R17	1	AUTO ANTI-DAZZLING INSIDE MIRROR
B1	7	4WD CONTROL UNIT
M29	22	ELECTRIC PARK BRAKE CONTROL UNIT
M95	4	AROUND VIEW MONITOR CONTROL UNIT
M7	3	AROUND VIEW MONITOR CONTROL UNIT
M62	4	STEERING ANGLE SENSOR
M49	40	NAVI CONTROL UNIT
M10	7	AUDIO UNIT

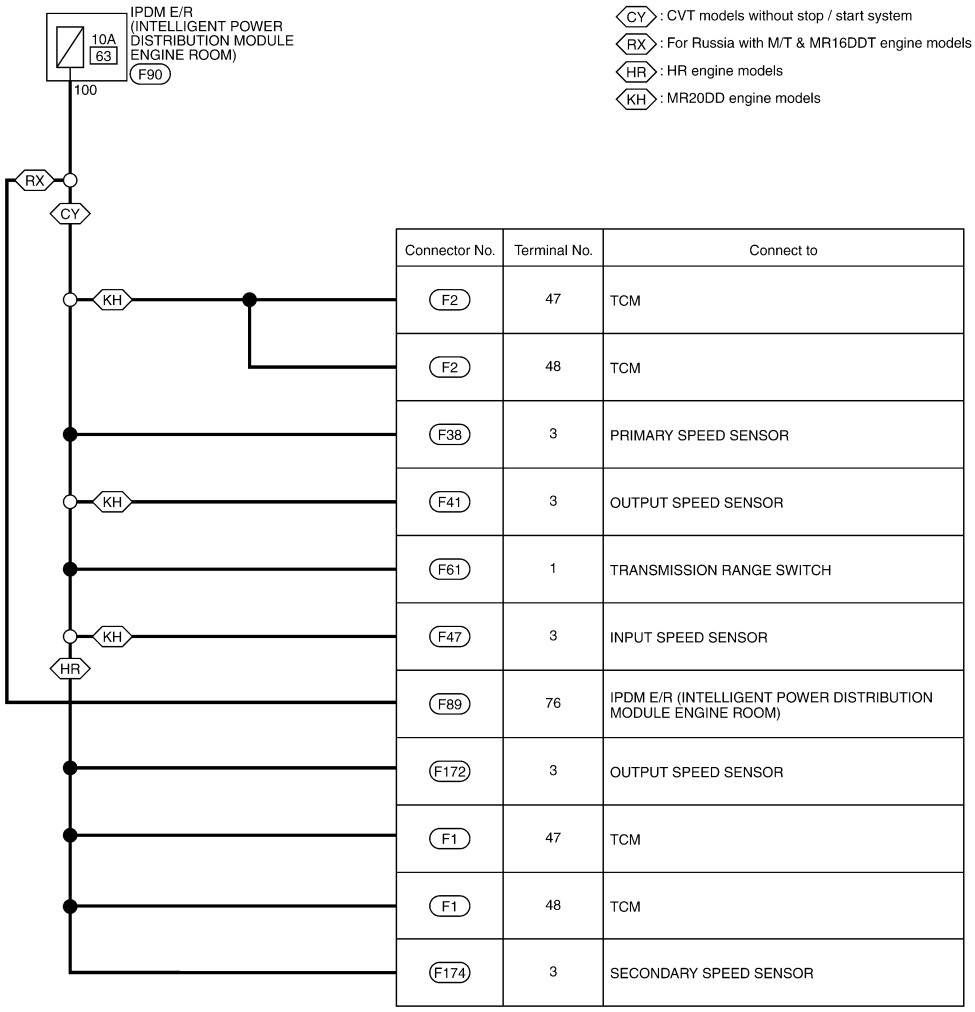
2014/10/01

JRMWG7480GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 63 -

INFOID:0000000010464072

IGNITION POWER SUPPLY FUSE No. 63



Connector No.	Terminal No.	Connect to
F2	47	TCM
F2	48	TCM
F38	3	PRIMARY SPEED SENSOR
F41	3	OUTPUT SPEED SENSOR
F61	1	TRANSMISSION RANGE SWITCH
F47	3	INPUT SPEED SENSOR
F89	76	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
F172	3	OUTPUT SPEED SENSOR
F1	47	TCM
F1	48	TCM
F174	3	SECONDARY SPEED SENSOR

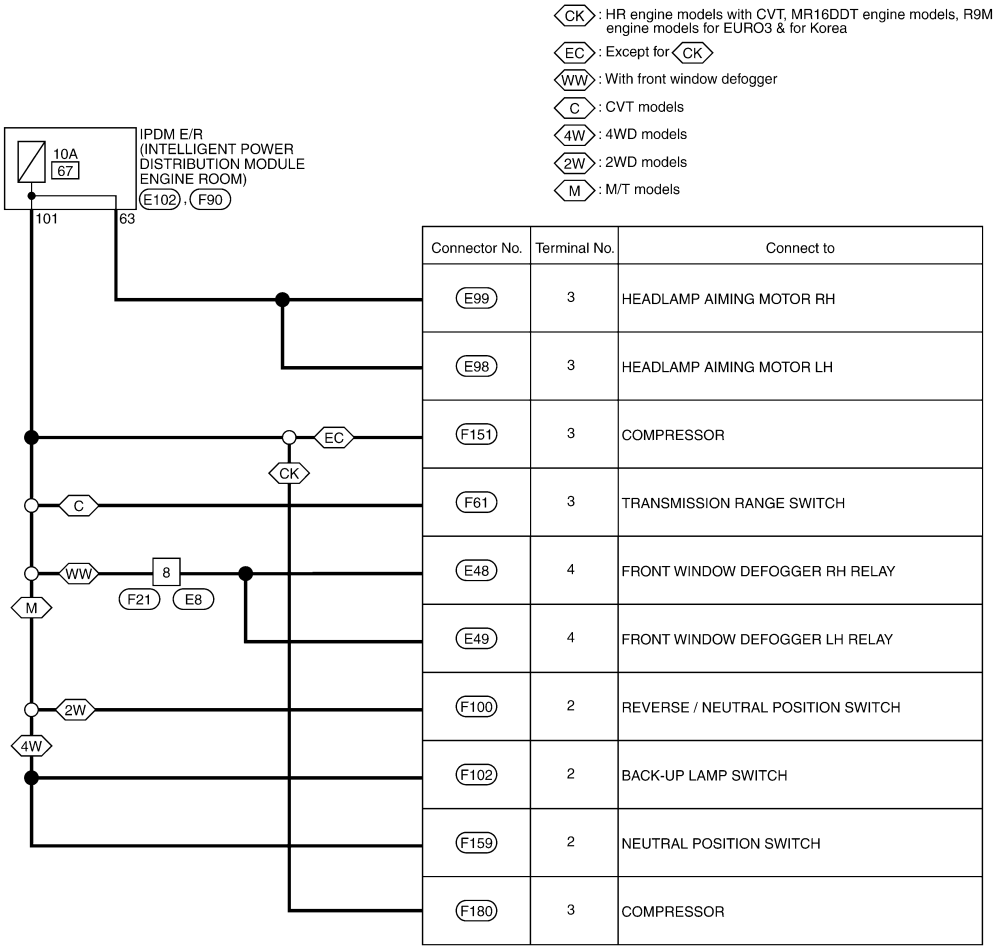
2014/10/01

JRMWG7481GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 67 -

INFOID:0000000010464073

IGNITION POWER SUPPLY FUSE No. 67



Connector No.	Terminal No.	Connect to
E99	3	HEADLAMP AIMING MOTOR RH
E98	3	HEADLAMP AIMING MOTOR LH
F151	3	COMPRESSOR
F61	3	TRANSMISSION RANGE SWITCH
E48	4	FRONT WINDOW DEFOGGER RH RELAY
E49	4	FRONT WINDOW DEFOGGER LH RELAY
F100	2	REVERSE / NEUTRAL POSITION SWITCH
F102	2	BACK-UP LAMP SWITCH
F159	2	NEUTRAL POSITION SWITCH
F180	3	COMPRESSOR

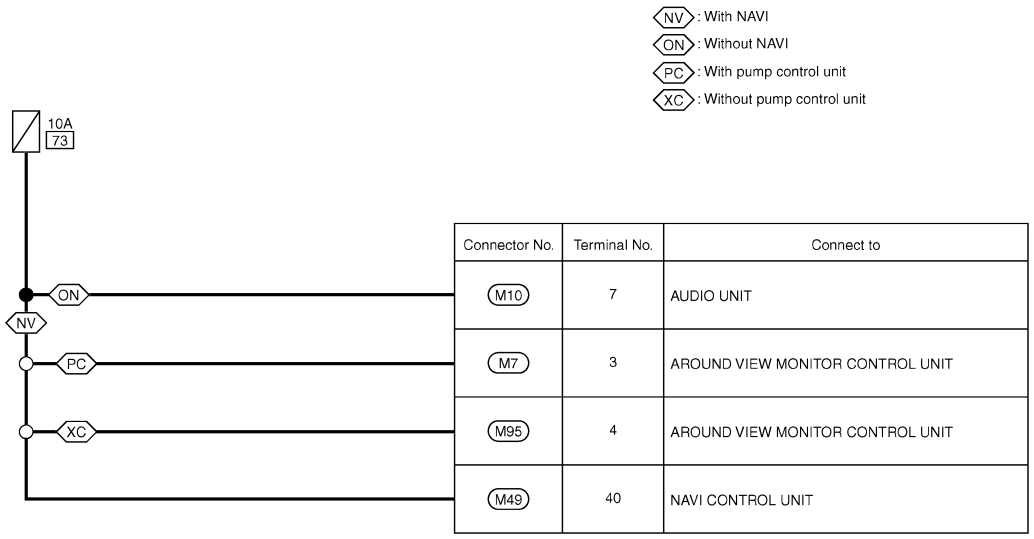
2014/10/01

JRMWG7482GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 73 -

INFOID:0000000010464074

IGNITION POWER SUPPLY FUSE No. 73



Connector No.	Terminal No.	Connect to
M10	7	AUDIO UNIT
M7	3	AROUND VIEW MONITOR CONTROL UNIT
M95	4	AROUND VIEW MONITOR CONTROL UNIT
M49	40	NAVI CONTROL UNIT

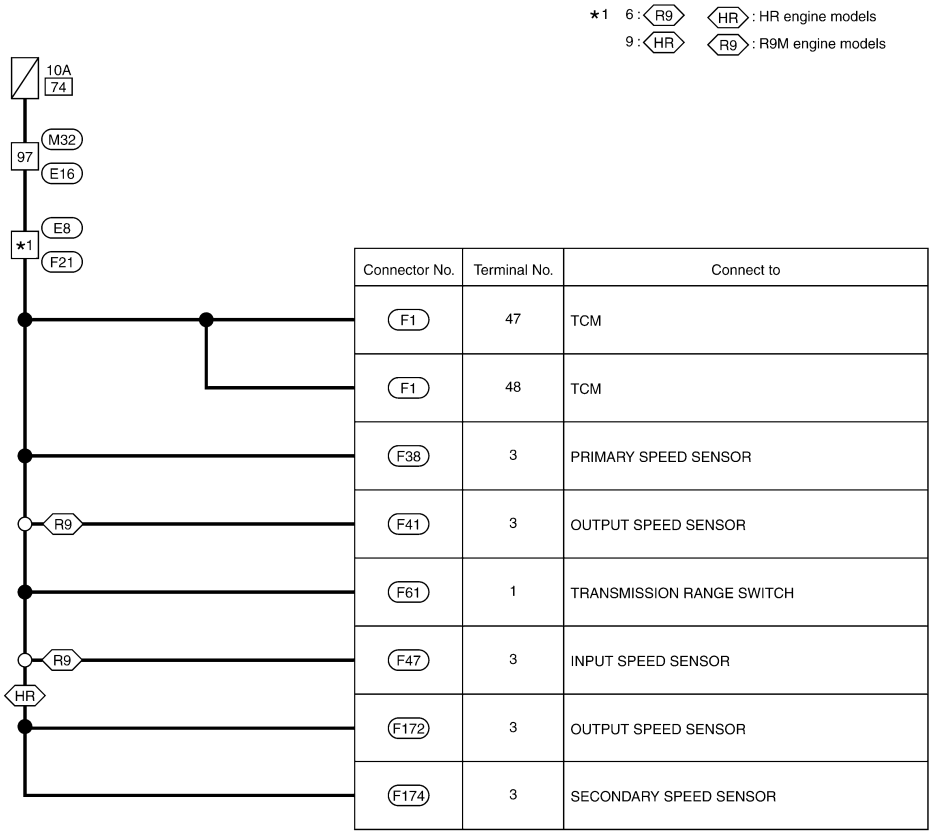
2013/11/20

JRMWE9313GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 74 -

INFOID:0000000010464075

IGNITION POWER SUPPLY FUSE No. 74



Connector No.	Terminal No.	Connect to
F1	47	TCM
F1	48	TCM
F38	3	PRIMARY SPEED SENSOR
F41	3	OUTPUT SPEED SENSOR
F61	1	TRANSMISSION RANGE SWITCH
F47	3	INPUT SPEED SENSOR
F172	3	OUTPUT SPEED SENSOR
F174	3	SECONDARY SPEED SENSOR

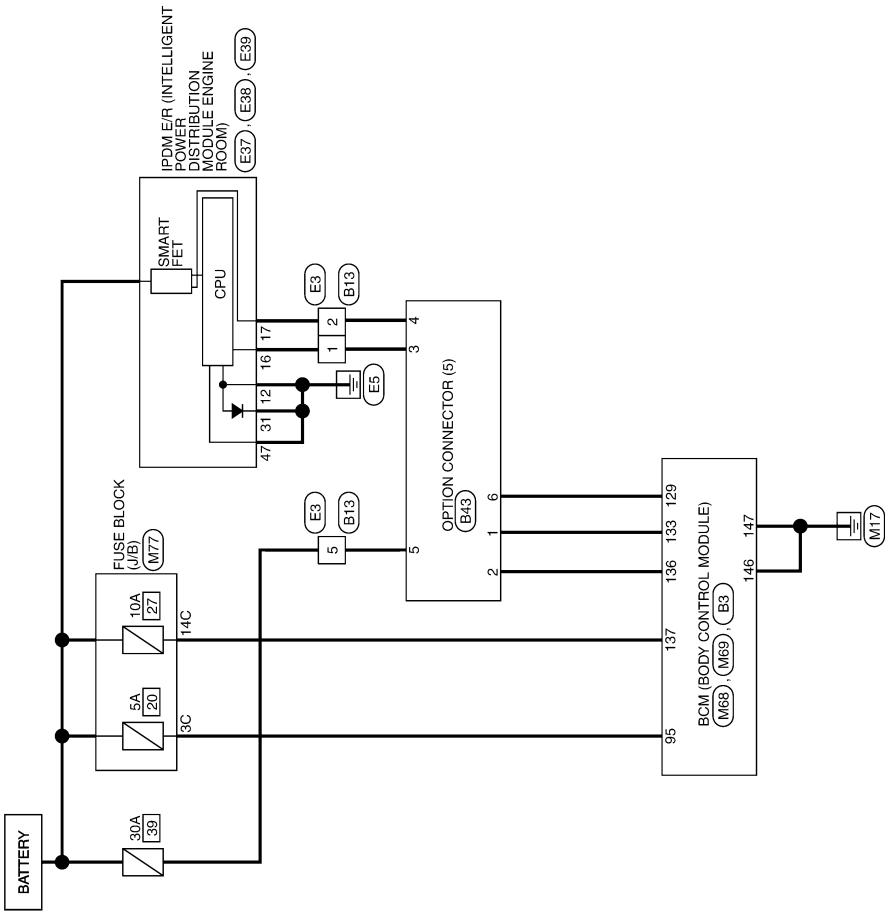
2014/06/13

JRMWF9727GB

OPTION HARNESS

Option Harness

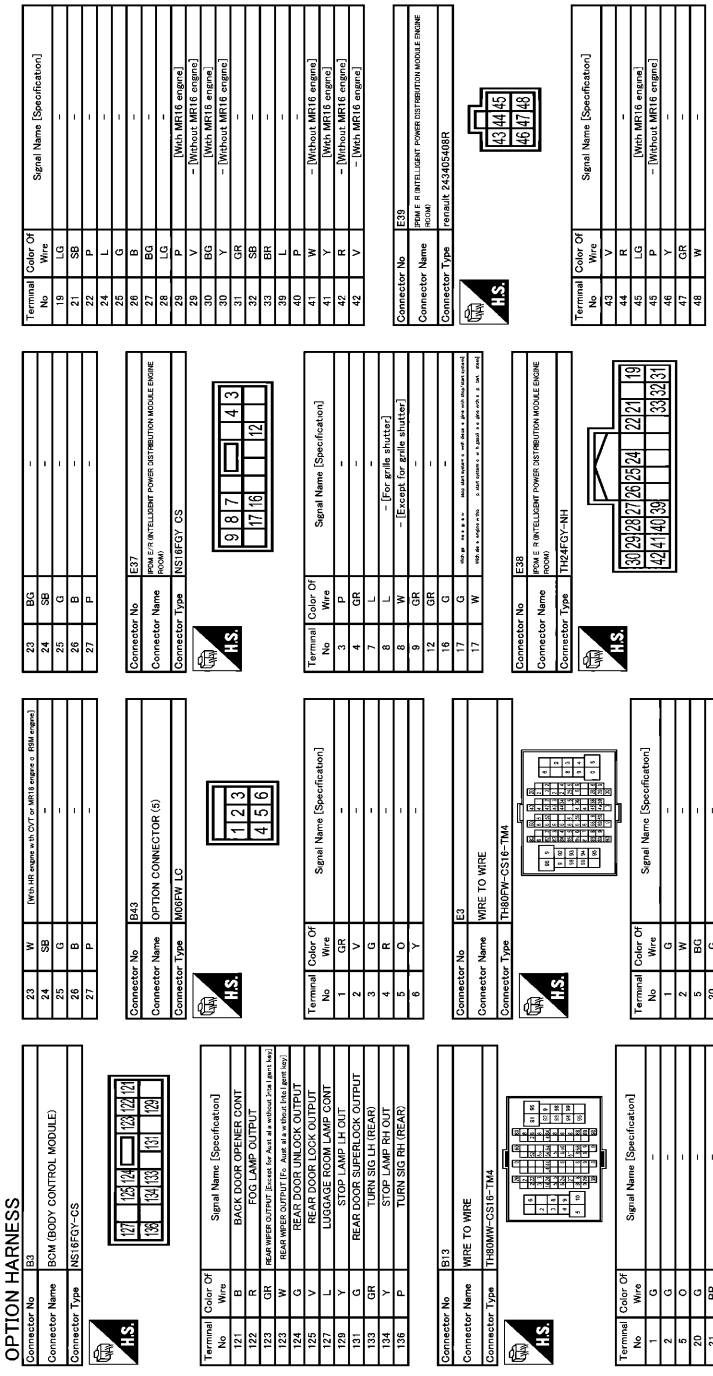
INFOID:0000000010519072



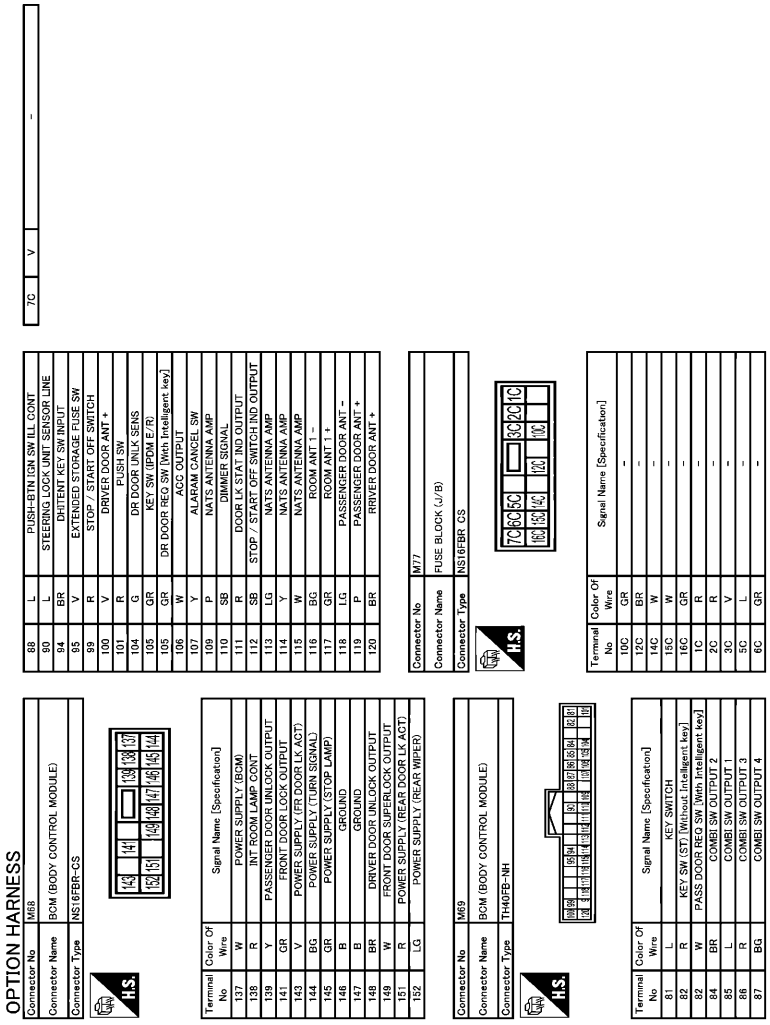
OPTION HARNESS

2014/10/01

JRMWG7405GB



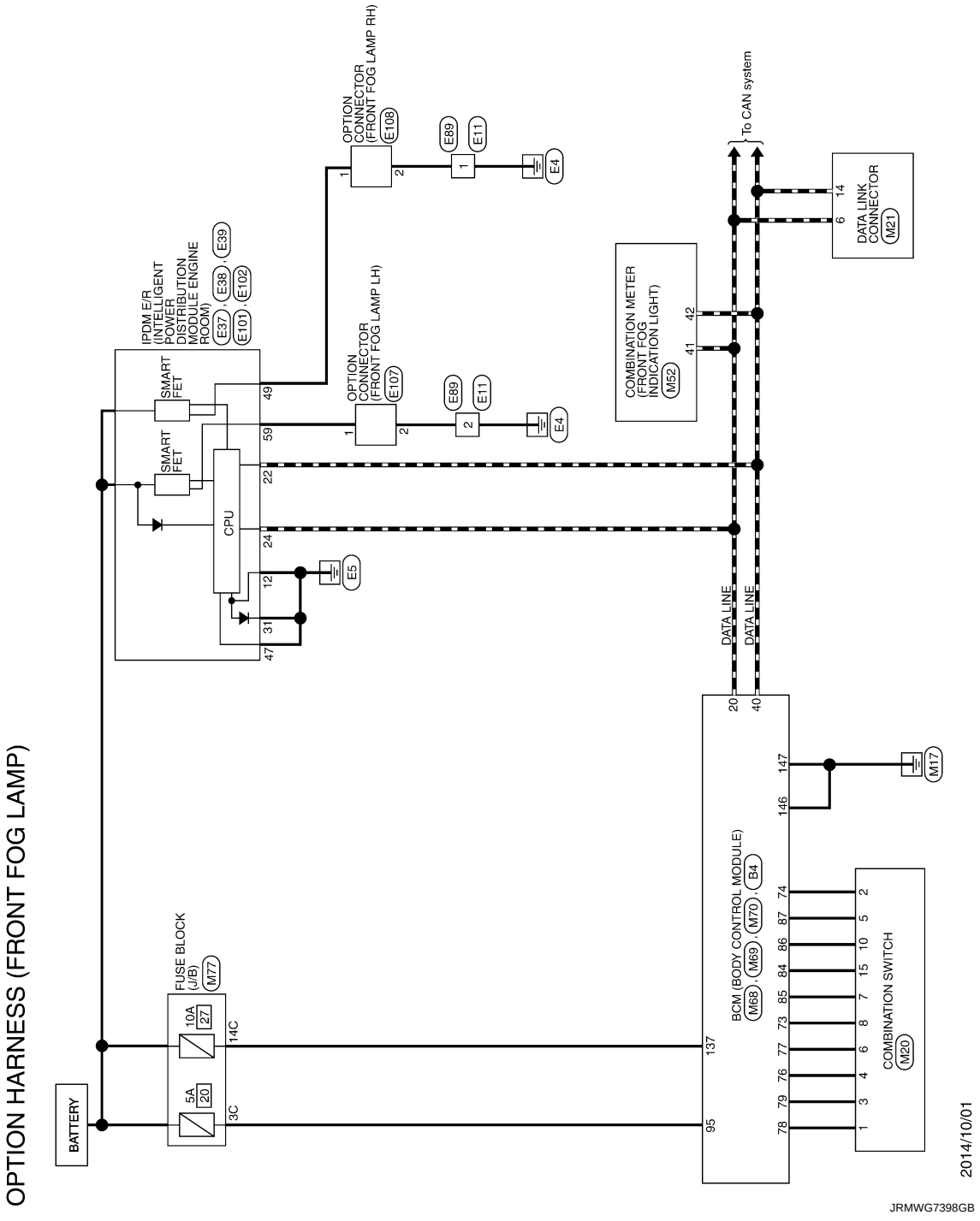
JRMWG7406GB

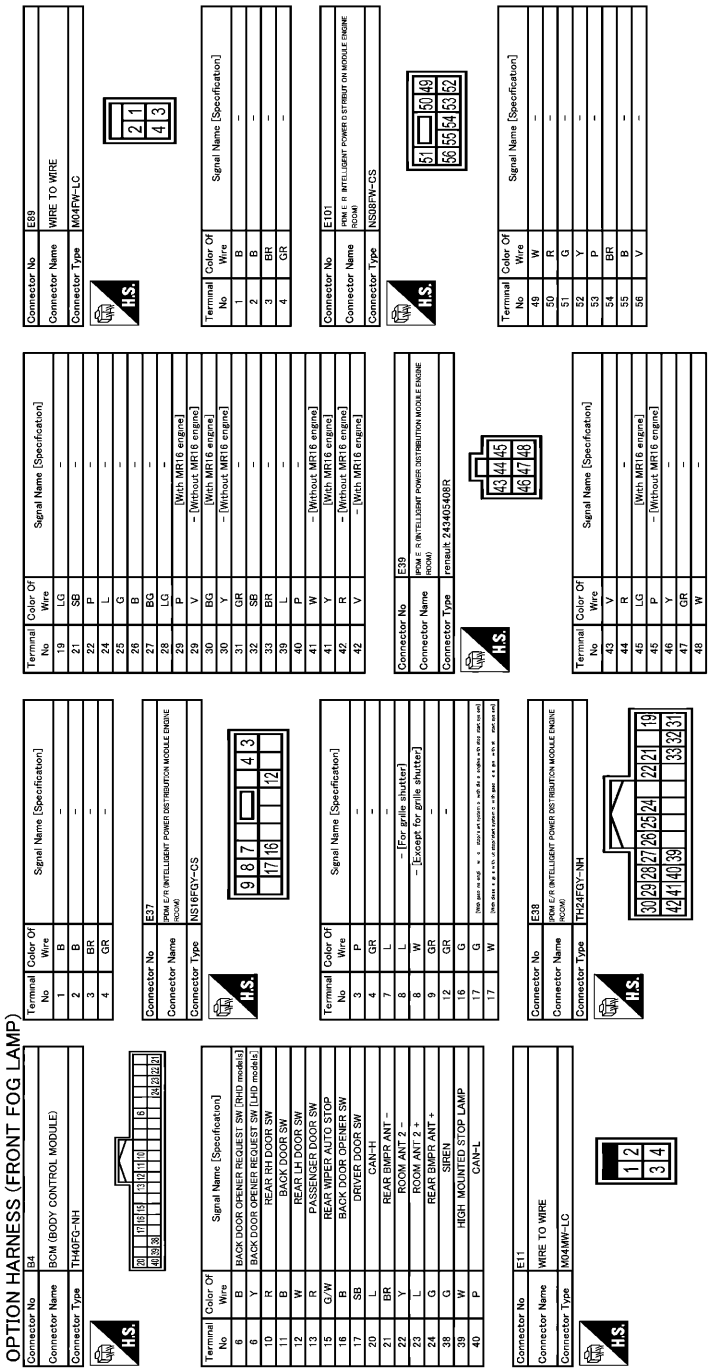


JRMWG7407GB

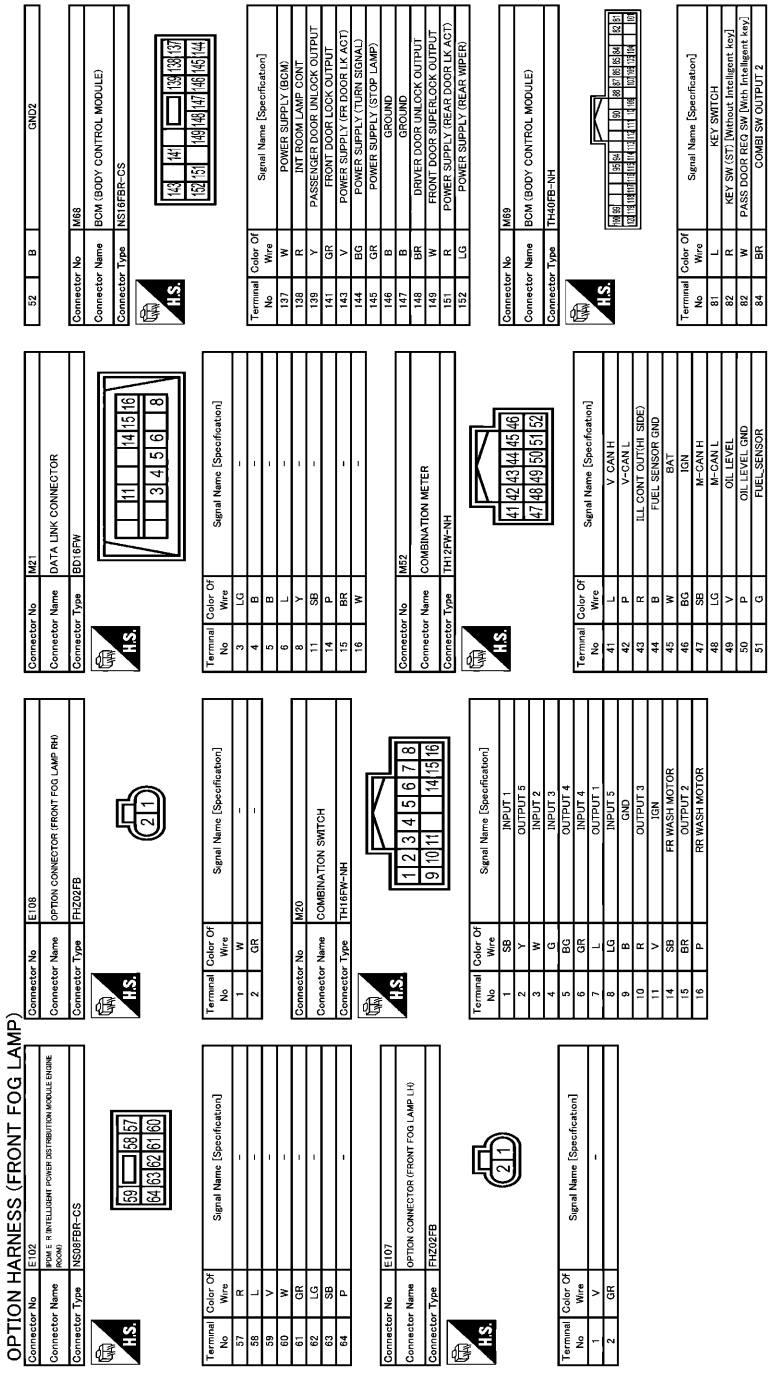
Option Harness (Front Fog Lamp)

INFOID:0000000010519073





JRMWG7399GB



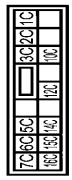
JRMWG7400GB

OPTION HARNESS (FRONT FOG LAMP)

85	L	COMBI SW OUTPUT 1
86	R	COMBI SW OUTPUT 3
87	BG	COMBI SW OUTPUT 4
88	L	PUSH-BTN IGN SW ILL CONT
90	L	STEERING LOCK UNIT SENSOR LINE
94	BR	DHTENT KEY SW INPUT
95	V	EXTENDED STORAGE FUSE SW
99	R	STOP / START OFF SWITCH
100	V	DRIVER DOOR ANT +
101	R	PUSH SW
104	G	DR DOOR UNLK SENS
105	GR	KEY SW (IPDM E/R)
106	GR	DR DOOR REQ SW (With Intelligent key)
106	W	ACC OUTPUT
107	Y	ALARM CANCEL SW
109	P	NATS ANTENNA AMP
110	SB	DIMMER SIGNAL
111	R	DOOR LK STAT IND OUTPUT
112	SB	STOP / START OFF SWITCH IND OUTPUT
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	LG	PASSENGER DOOR ANT –
119	P	PASSENGER DOOR ANT +
120	BR	RRIVER DOOR ANT +

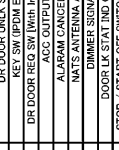
48	L	CAN-H
49	R	CAN-L
50	GR	DOOR LOCK SW
51	Y	HAZARD SW
56	P	DONGLE
57	BG	CVT SHIFT SELECT (DETENT SW) PWR
58	V	O AUTO MIRROR RL
60	G	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	SB	REAR WINDOW DEFOGGER RELAY CONT
65	P	ACC RELAY
67	LG	IGN RELAY (F/B) CONT
68	L	BLOWER RELAY CONT
71	BR	ROOM LAMP (OPTION CONNECTOR)
72	R	CONSOLE LED 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	SB	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	BR	DOOR UNLOCK SW

Connector No	M77
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS



Terminal No	Color Of Wire	Signal Name [Specification]
10C	GR	–
12C	BR	–
14C	W	–
15C	W	–
16C	GR	–
1C	R	–
2C	R	–
3C	V	–
5C	L	–
6C	GR	–
7C	V	–

Connector No	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH

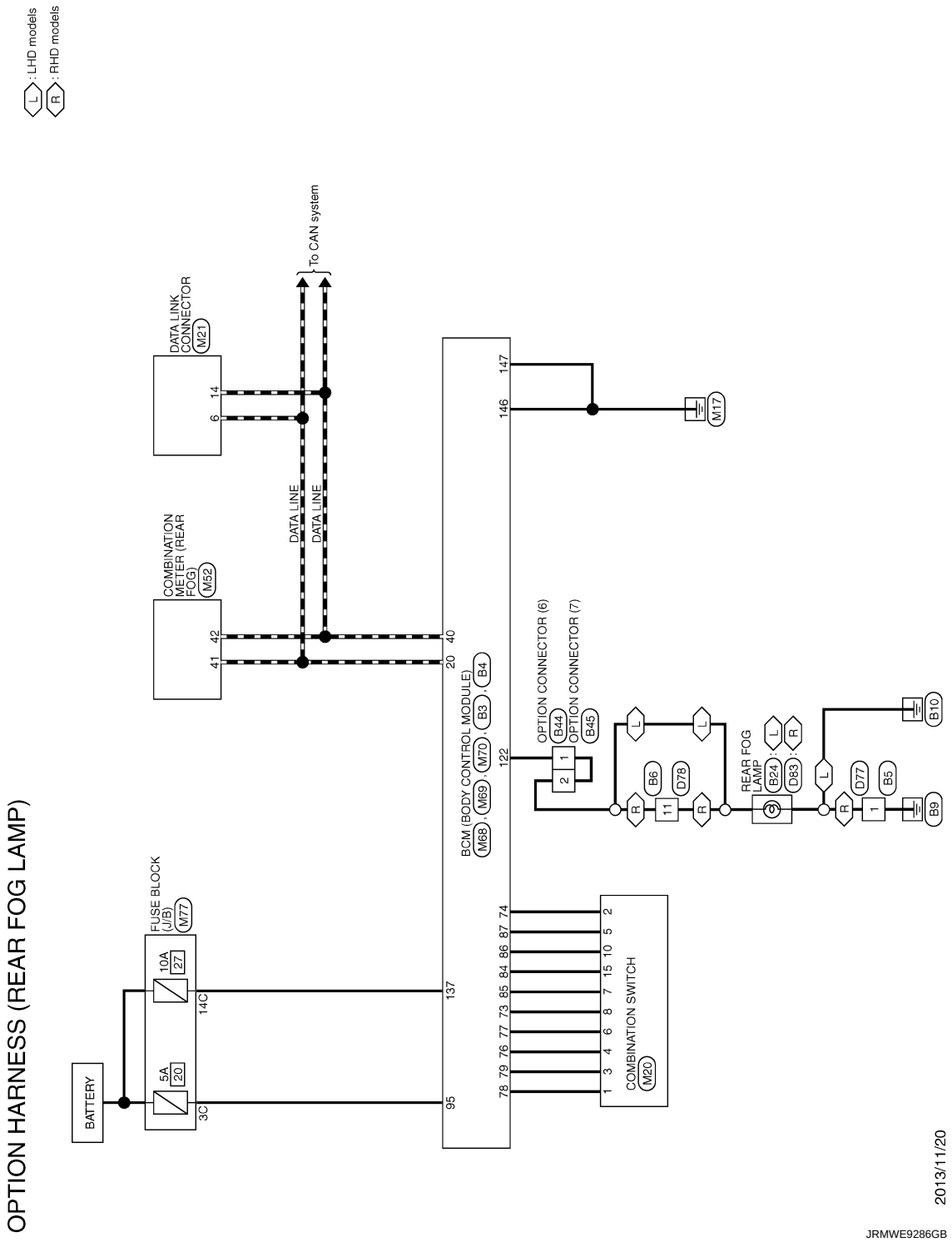


Terminal No	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT OPERATION POWER SUPPLY
42	G	TURN SIG LH (SIDE)
43	Y	TURN SIG LH (SIDE)
44	BR	INTERIOR ROOM LAMP RELAY CONT
45	R	CAN-H
46	L	CAN-H
47	BG	LIGHT & RAIN SENSOR

JRMWG7401GB

Option Harness (Rear Fog Lamp)

INFOID:0000000010519074



OPTION HARNESS (REAR FOG LAMP)

Connector No	B3
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FGY-CS

Terminal No	Color Of Wire	Signal Name [Specification]
121	B	BACK DOOR OPENER CONT
122	R	FOG LAMP OUTPUT
123	GR	REAR WIPER OUTPUT [Except for Aust. a/t a without Intel. (gent key)]
123	W	REAR WIPER OUTPUT [For Aust. a/t a without Intel. (gent key)]
124	G	REAR DOOR UNLOCK OUTPUT
125	V	REAR DOOR LOCK OUTPUT
127	L	LUGGAGE ROOM LAMP CONT
129	Y	STOP LAMP LH OUT
131	G	REAR DOOR SUPERLOCK OUTPUT
133	GR	TURN SIG LH (REAR)
134	Y	STOP LAMP RH OUT
136	P	TURN SIG RH (REAR)

Connector No	B4
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH

Terminal No	Color Of Wire	Signal Name [Specification]
6	B	BACK DOOR OPENER REQUEST SW [RHD models]
6	Y	BACK DOOR OPENER REQUEST SW [LHD models]
10	R	REAR RH DOOR SW
11	B	BACK DOOR SW
12	W	REAR LH DOOR SW
13	R	PASSENGER DOOR SW
15	G/W	REAR WIPER AUTO STOP
16	B	BACK DOOR OPENER SW
17	SB	DRIVER DOOR SW
20	L	CAN-H
21	BR	REAR BMPR ANT –
22	Y	ROOM ANT 2 +
23	L	ROOM ANT 2 –
24	G	REAR BMPR ANT +
38	G	SIREN
39	W	HIGH-MOUNTED STOP LAMP
40	P	CAN-L

Connector No	B5
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No	B6
Connector Name	WIRE TO WIRE
Connector Type	TH12FW-NH

Terminal No	Color Of Wire	Signal Name [Specification]
1	R	–
2	G	–
5	G	–
6	G/W	–
7	R	–
8	B	–
9	W	–
10	SHIELD	–
11	Y	–
12	G	–

Connector No	B24
Connector Name	REAR FOG LAMP
Connector Type	RS02FGY

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

Connector No	B44
Connector Name	OPTION CONNECTOR (6)
Connector Type	NS02FBR-CS

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

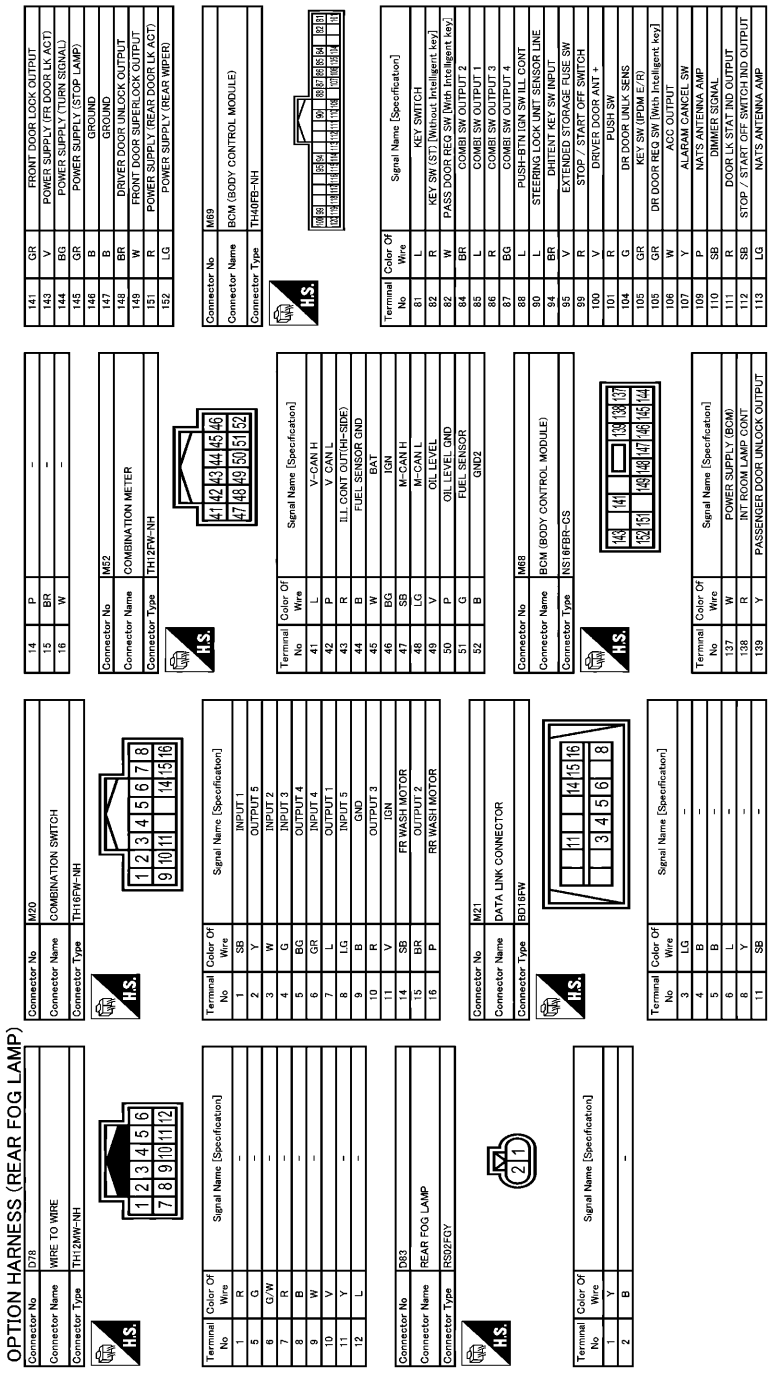
Connector No	B45
Connector Name	OPTION CONNECTOR (7)
Connector Type	NS02MBR-CS

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

Connector No	D77
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

JRMWG7402GB



JRMWG7403GB

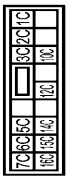
OPTION HARNESS (REAR FOG LAMP)

114	Y	NATS ANTENNA AMP
115	W	NATS ANTENNA AMP
116	BG	ROOM ANT 1 –
117	GR	ROOM ANT 1 +
118	LG	PASSENGER DOOR ANT –
119	P	PASSENGER DOOR ANT +
120	BR	RRIVER DOOR ANT +

Connector No	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH

Terminal No	Color Of Wire	Signal Name [Specification]
41	V	STEERING LOCK UNIT OPERATION POWER SUPPLY
42	G	TURN SIG LH (SIDE)
43	Y	TURN SIG LH (SIDE)
44	BR	INTERIOR ROOM LAMP RELAY CONT
45	R	CAN H
46	L	CAN-H
47	BG	LIGHT & RAIN SENSOR
48	L	CAN-H
49	R	CAN-L
50	GR	DOOR LOCK SW
51	Y	HAZARD SW
56	P	DONGLE
57	BG	CVT SHIFT SELECT (DETENT SW) PWR
58	V	O AUTO MIRROR RL
60	G	HEADLAMP WASHER SW
63	G	POWER WINDOW RELAY CON
64	SB	REAR WINDOW DEFOGGER RELAY CONT
65	P	ACC RELAY
67	LG	IGN RELAY (F/B) CONT
68	L	BLOWER RELAY CONT
71	BR	ROOM LAMP (OPTION CONNECTOR)
72	R	CONSOLE LED 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	SB	COMBI SW INPUT 1
79	W	COMBI SW INPUT 2
80	BR	DOOR UNLOCK SW

Connector No	M77
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FBR-CS

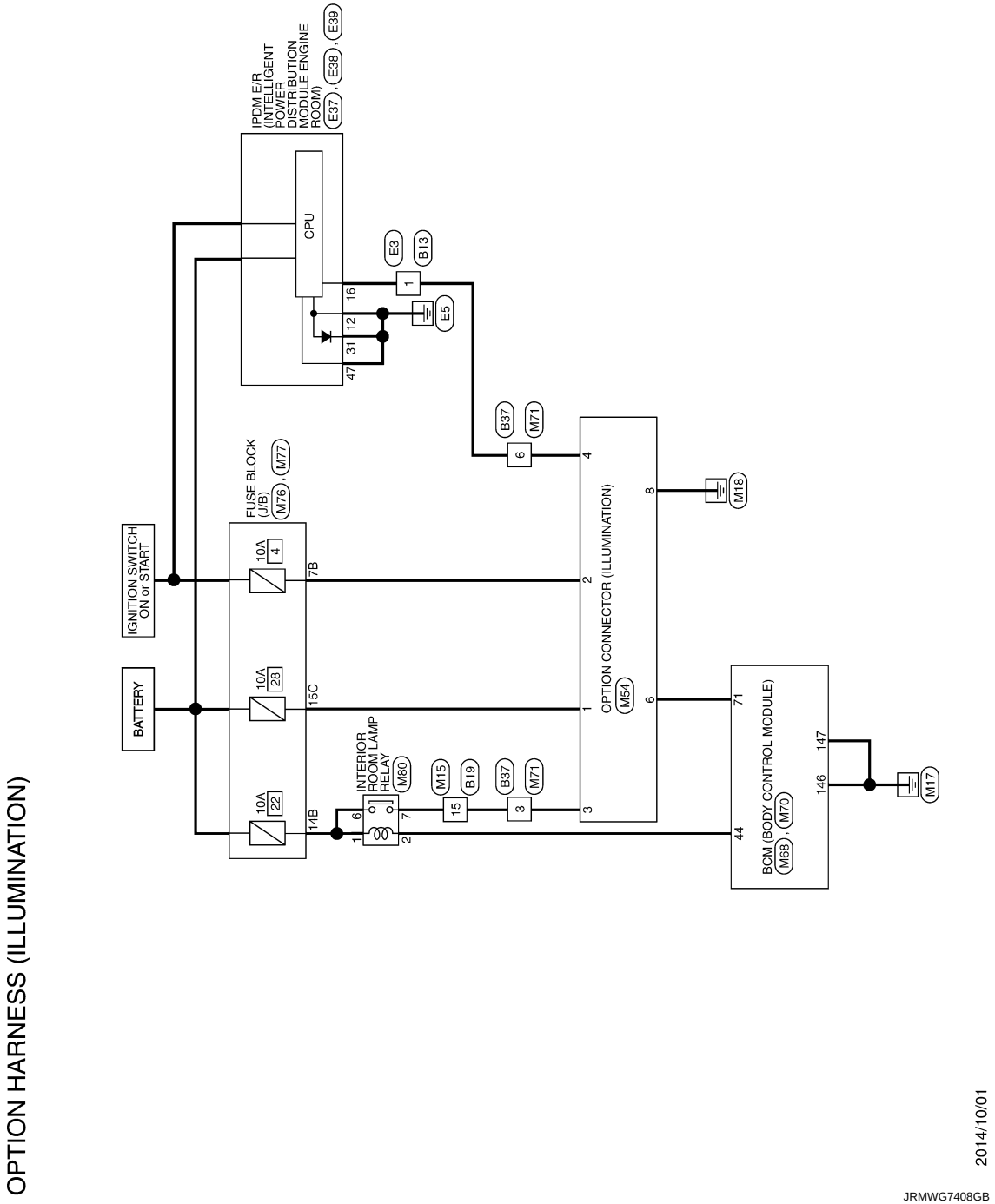


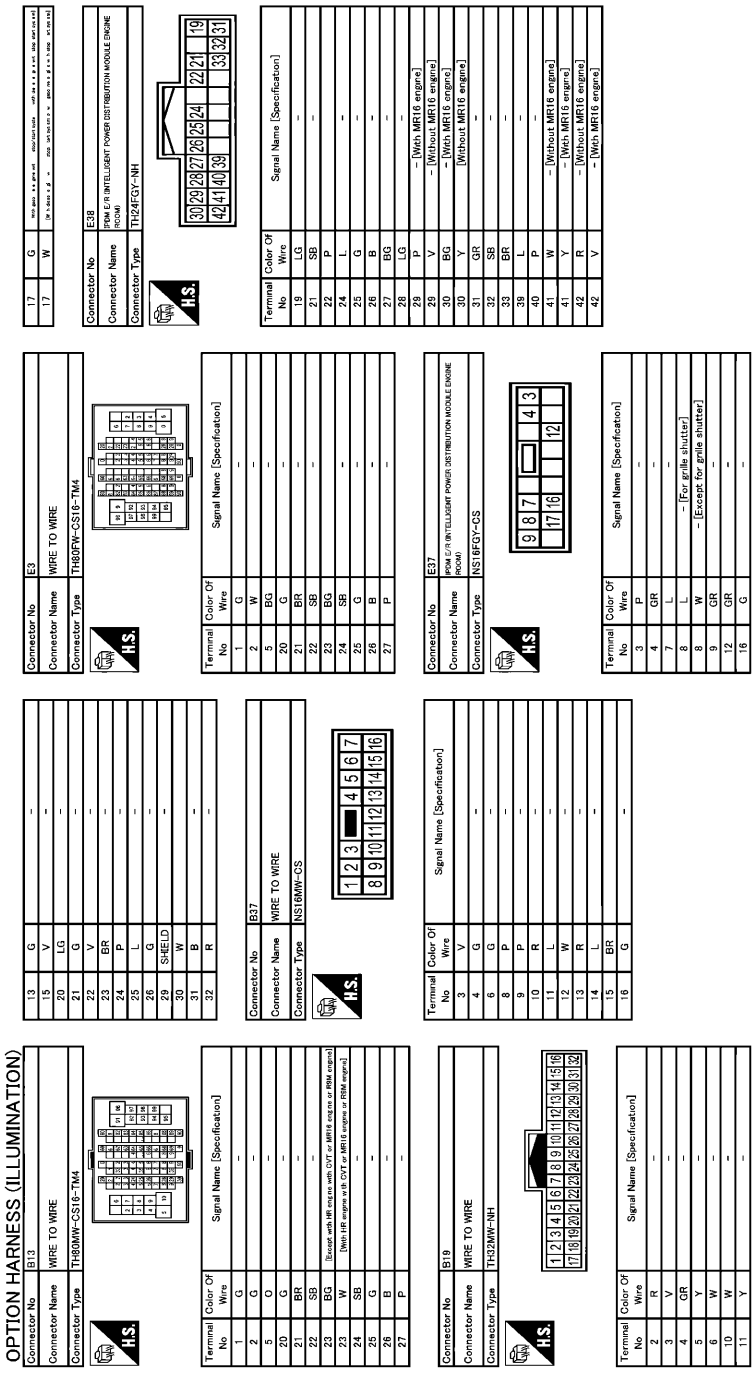
Terminal No	Color Of Wire	Signal Name [Specification]
10C	GR	–
12C	BR	
14C	W	–
15C	W	–
16C	GR	–
1C	R	–
2C	R	–
3C	V	–
5C	L	–
6C	GR	–
7C	V	–

JRMWG7404GB

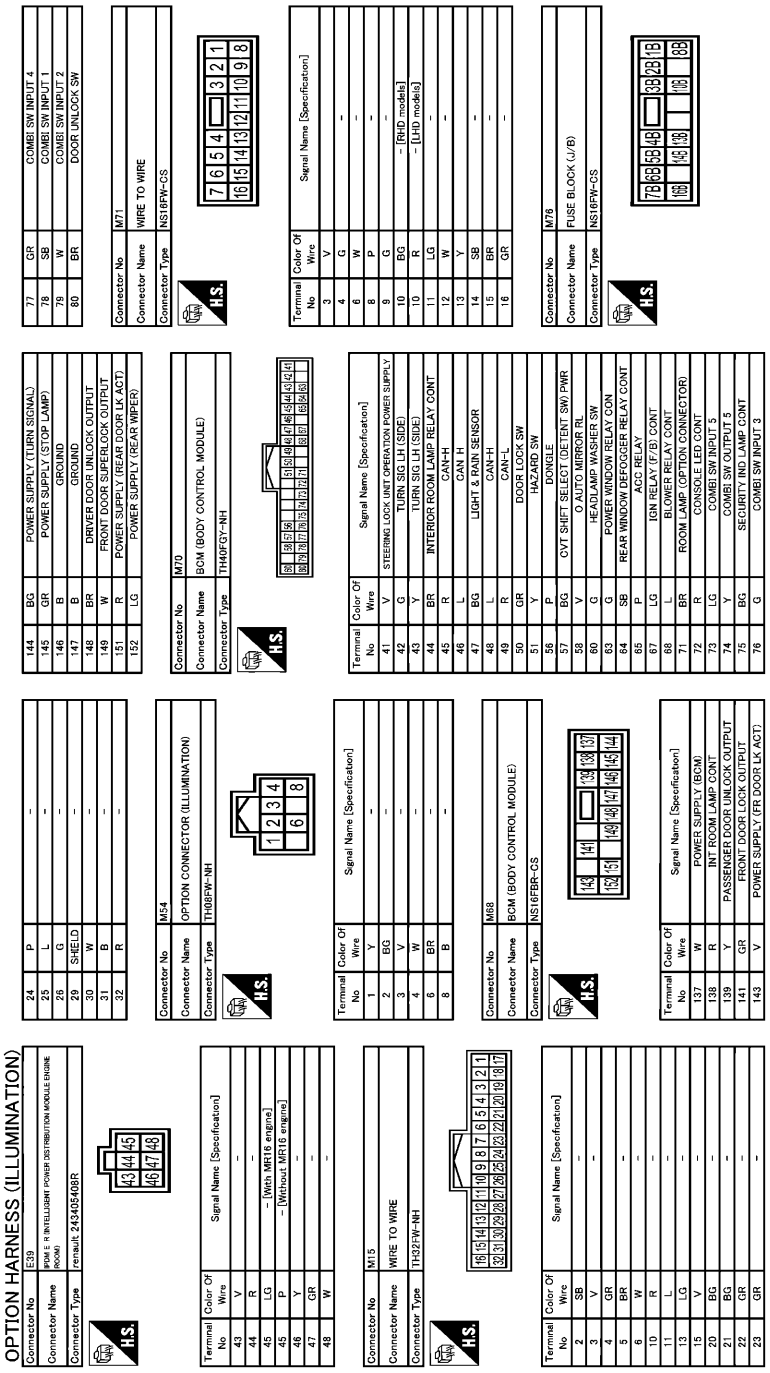
Option Harness (Illumination)

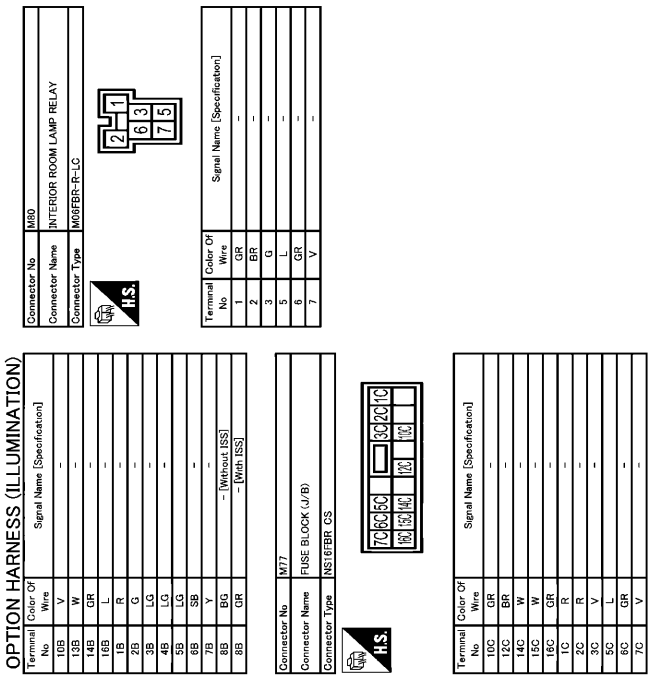
INFOID:0000000010519075





JRMWG7409GB


OPTION HARNESS (ILLUMINATION)
Connector No E39
Connector Name IPDM E R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type renault 243405408R
H.S.
43 44 45
46 47 48
Terminal No / Color Of Wire / Signal Name [Specification]
43 V -
44 R -
45 LG - [With MR16 engine]
45 P - [Without MR16 engine]
46 Y -
47 GR -
48 W -
Connector No M15
Connector Name WIRE TO WIRE
Connector Type TH32FW-NH
H.S.
16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17
Terminal No / Color Of Wire / Signal Name [Specification]
2 SB -
3 V -
4 GR -
5 BR -
6 W -
10 R -
11 L -
13 LG -
15 V -
20 BG -
21 BG -
22 GR -
23 GR -
24 P -
25 L -
26 G -
29 SHIELD -
30 W -
31 B -
32 R -
Connector No M54
Connector Name OPTION CONNECTOR (ILLUMINATION)
Connector Type TH08FW-NH
H.S.
1 2 3 4
6 8
Terminal No / Color Of Wire / Signal Name [Specification]
1 Y -
2 BG -
3 V -
4 W -
6 BR -
8 B -
Connector No M68
Connector Name BCM (BODY CONTROL MODULE)
Connector Type NS16FBR-CS
H.S.
142 141 138 137
152 151 149 148 147 146 145 144
Terminal No / Color Of Wire / Signal Name [Specification]
137 W POWER SUPPLY (BCM)
138 R INT ROOM LAMP CONT
139 Y PASSENGER DOOR UNLOCK OUTPUT
141 GR FRONT DOOR LOCK OUTPUT
143 V POWER SUPPLY (FR DOOR LK ACT)
144 BG POWER SUPPLY (TURN SIGNAL)
145 GR POWER SUPPLY (STOP LAMP)
146 B GROUND
147 B GROUND
148 BR DRIVER DOOR UNLOCK OUTPUT
149 W FRONT DOOR SUPERLOCK OUTPUT
151 R POWER SUPPLY (REAR DOOR LK ACT)
152 LG POWER SUPPLY (REAR WIPER)
Connector No M70
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 OPERATION POWER SUPPLY
42 G TURN SIG LH (SIDE)
43 Y TURN SIG LH (SIDE)
44 BR INTERIOR ROOM LAMP RELAY CONT
45 R CAN-H
46 L CAN -H
47 BG LIGHT & RAIN SENSOR
48 L CAN-H
49 R CAN-L
50 GR DOOR LOCK SW
51 Y HAZARD SW
56 P DONGLE
57 BG CVT SHIFT SELECT (DETENT SW) PWR
58 V O AUTO MIRROR RL
60 G HEADLAMP WASHER SW
63 G POWER WINDOW RELAY OON
64 SB REAR WINDOW DEFOGGER RELAY CONT
65 P ACC RELAY
67 LG IGN RELAY (F/B) CONT
68 L BLOWER RELAY CONT
71 BR ROOM LAMP (OPTION CONNECTOR)
72 R CONSOLE LED 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 SB COMBI SW INPUT 1
79 W COMBI SW INPUT 2
80 BR DOOR UNLOCK SW
Connector No M71
Connector Name WIRE TO WIRE
Connector Type NS16FW-CS
H.S.
7 6 5 4 3 2 1
16 15 14 13 12 11 10 9 8
Terminal No / Color Of Wire / Signal Name [Specification]
3 V -
4 G -
6 W -
8 P -
9 G -
10 BG - [RHD models]
10 R - [LHD models]
11 LG -
12 W -
13 Y -
14 SB -
15 BR -
16 GR -
Connector No M78
Connector Name FUSE BLOCK (J/B)
Connector Type NS16FW-CS
H.S.
7B 6B 5B 4B 3B 2B 1B
16B 15B 13B 11B 9B
JRMWG7410GB



JRMWG7411GB

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:0000000010464079

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

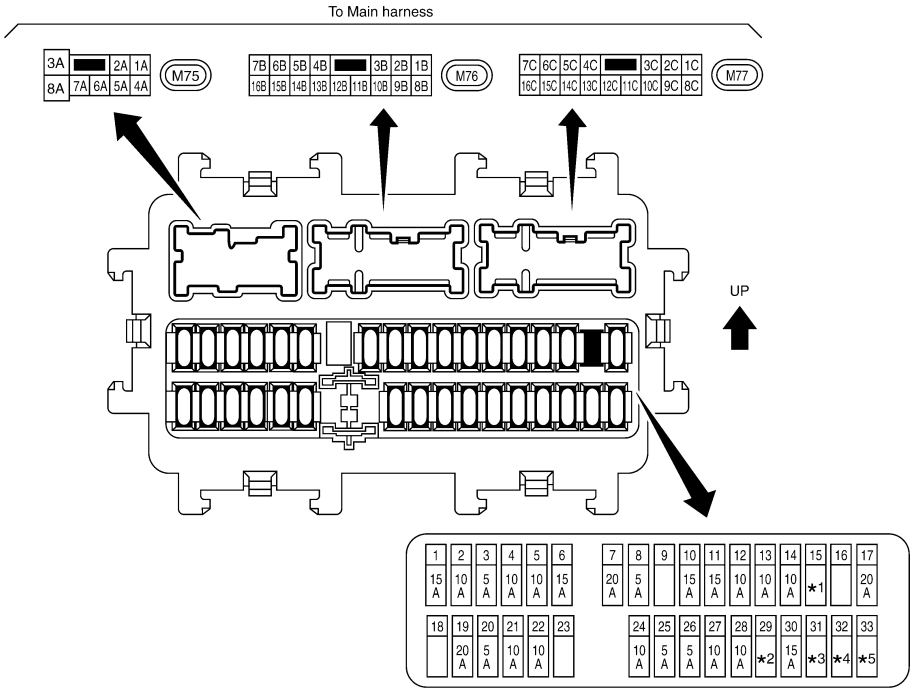
∗1 15A : HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea
20A : Except for HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea

∗2 20A : HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea
15A : Except for HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea

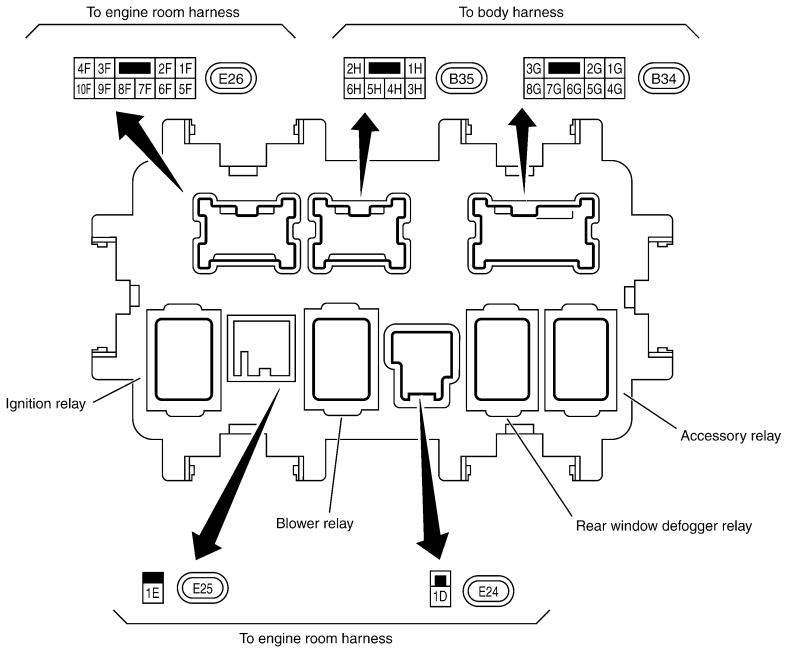
∗3 20A : HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea
15A : Except for HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea

∗4 15A : HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea
20A : Except for HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea

∗5 15A : HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea
10A : Except for HR engine models with CVT, MR16DDT engine models, R9M engine models for EURO3 & for Korea

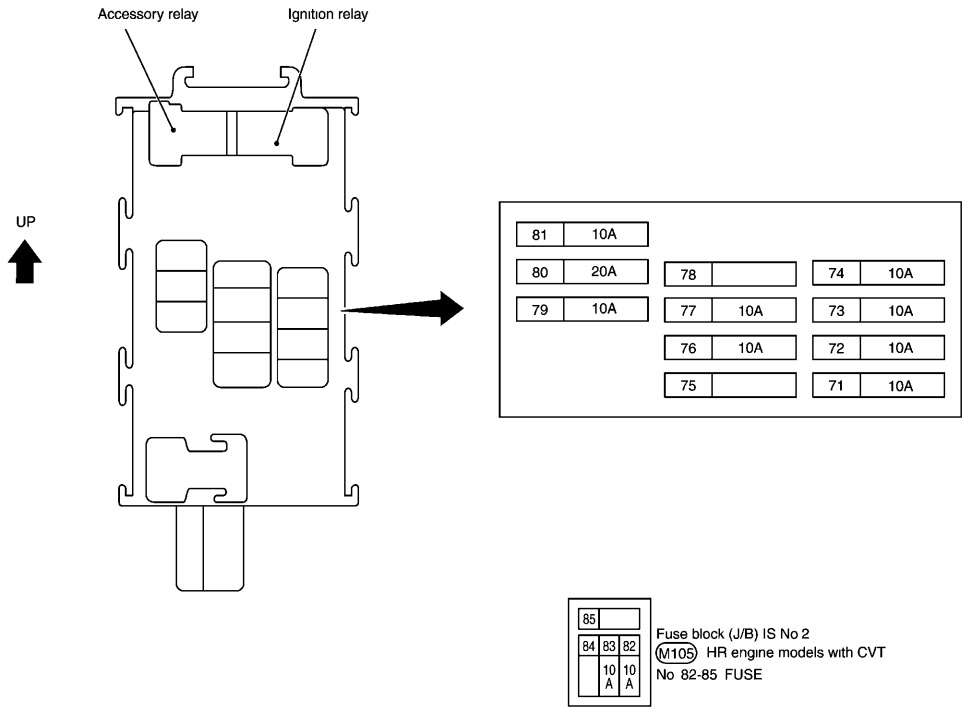


JRMWG7483GB



2014/10/01

JRMWG7484GB



Fuse block (J/B) IS No 2
M105 HR engine models with CVT
No 82-85 FUSE

2014/06/13

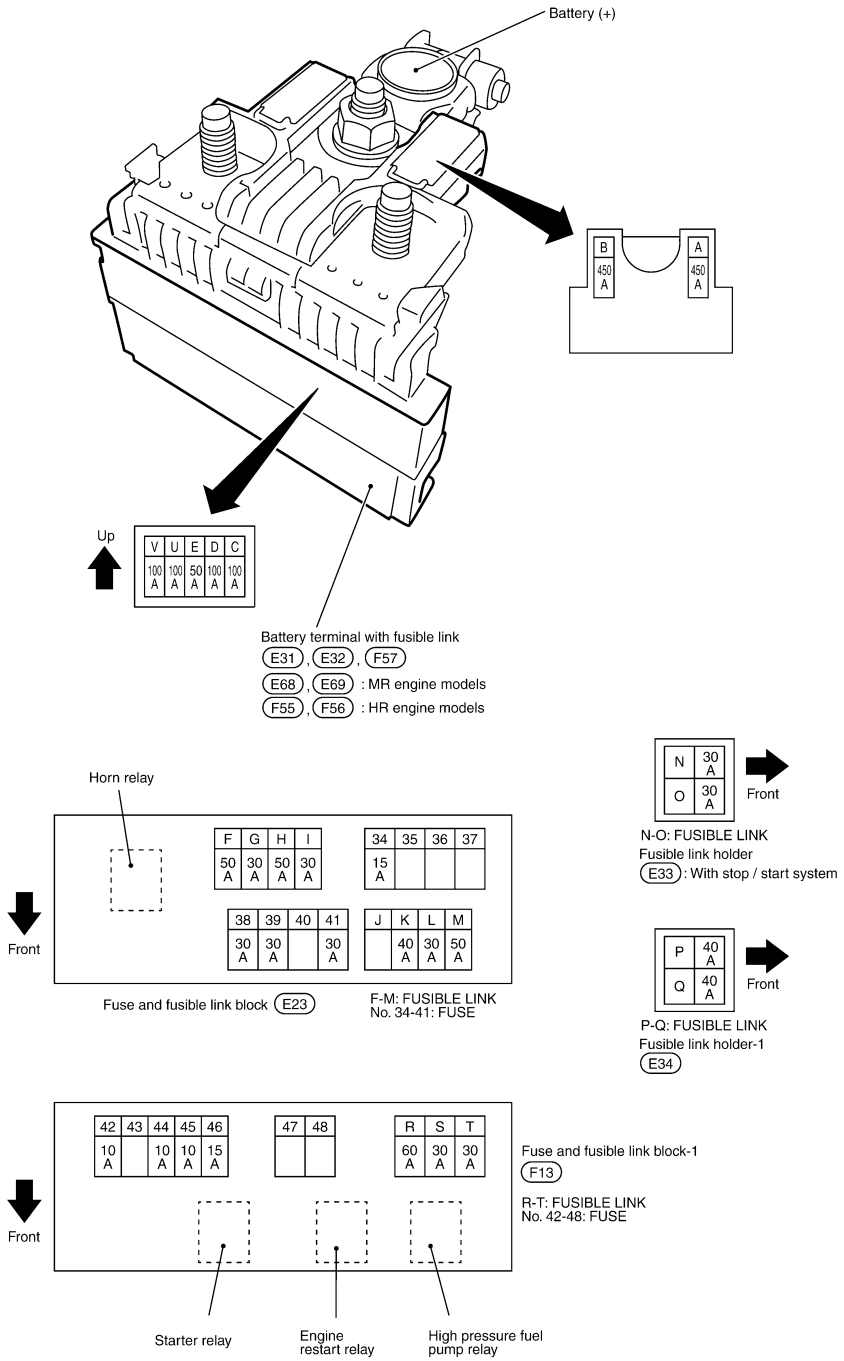
JRMWF9729GB

FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement (Gasilone Engine)

INFOID:0000000010464080

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



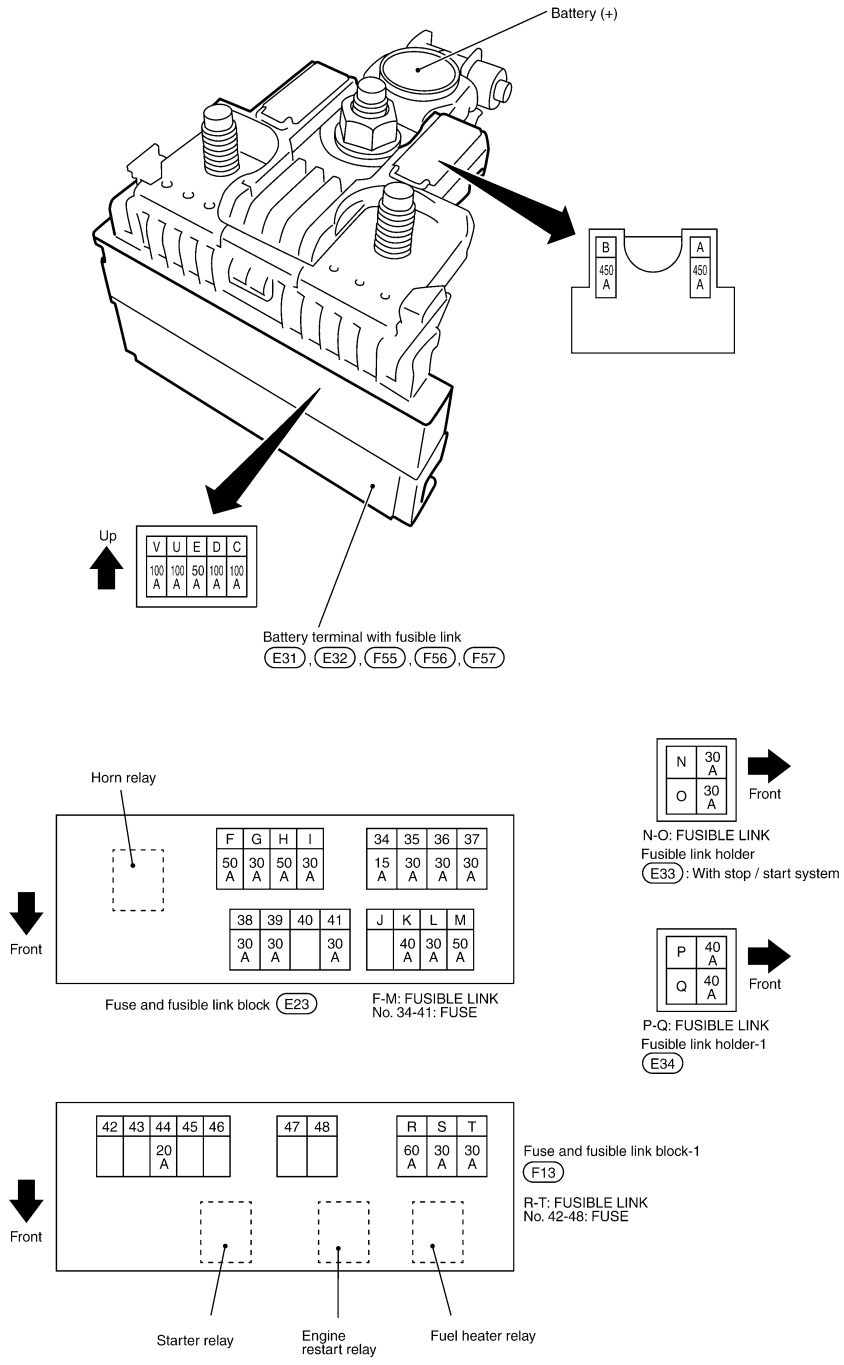
2014/10/01

JRMWG7485GB

Fuse and Fusible Link Arrangement (Diesel Engine)

INFOID:0000000010519113

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



2014/10/01

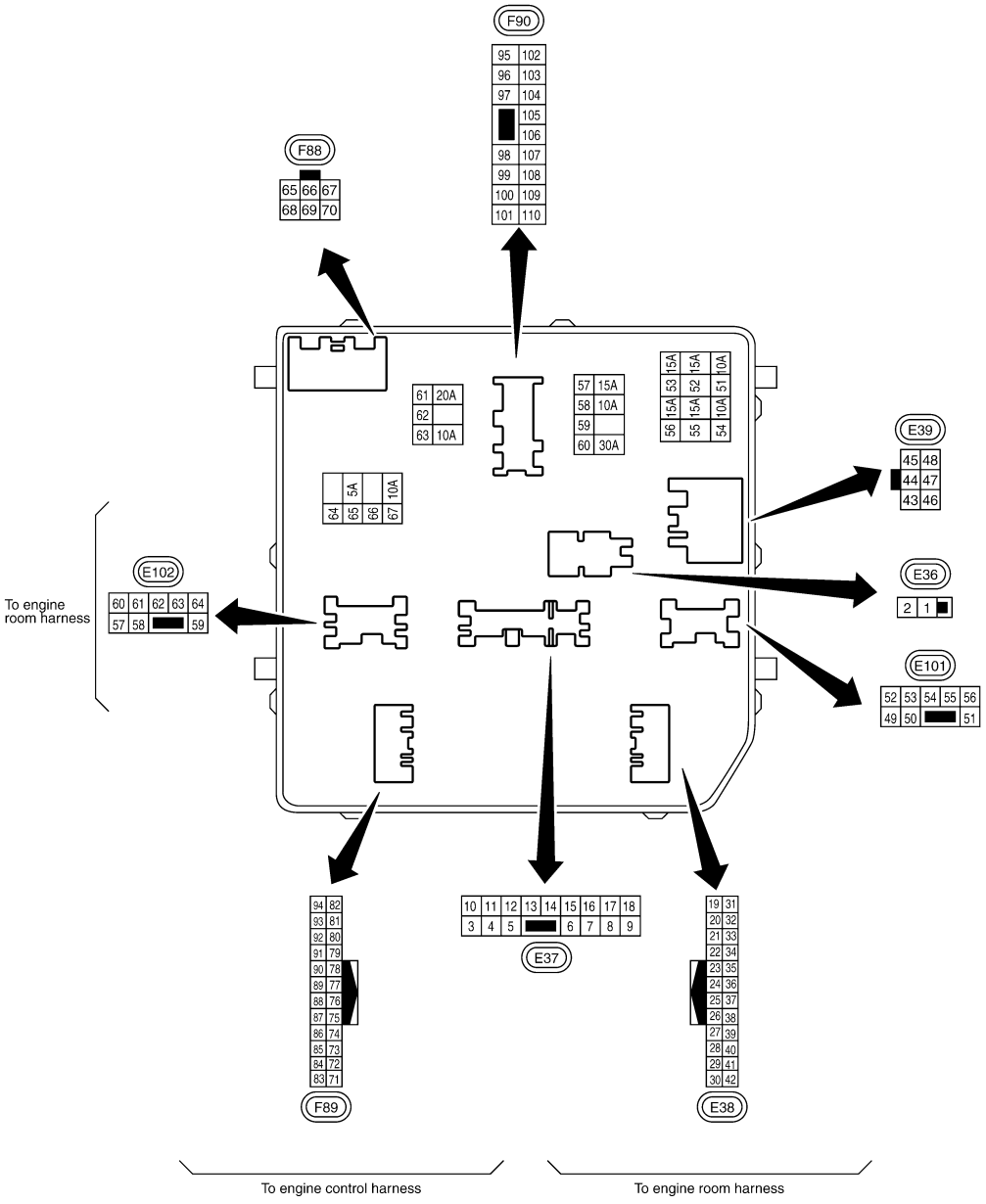
JRMWG7486GB

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

Fuse, Connector and Terminal Arrangement

INFOID:0000000010464081

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Fuse, Connector and Terminal Arrangement



2014/10/01

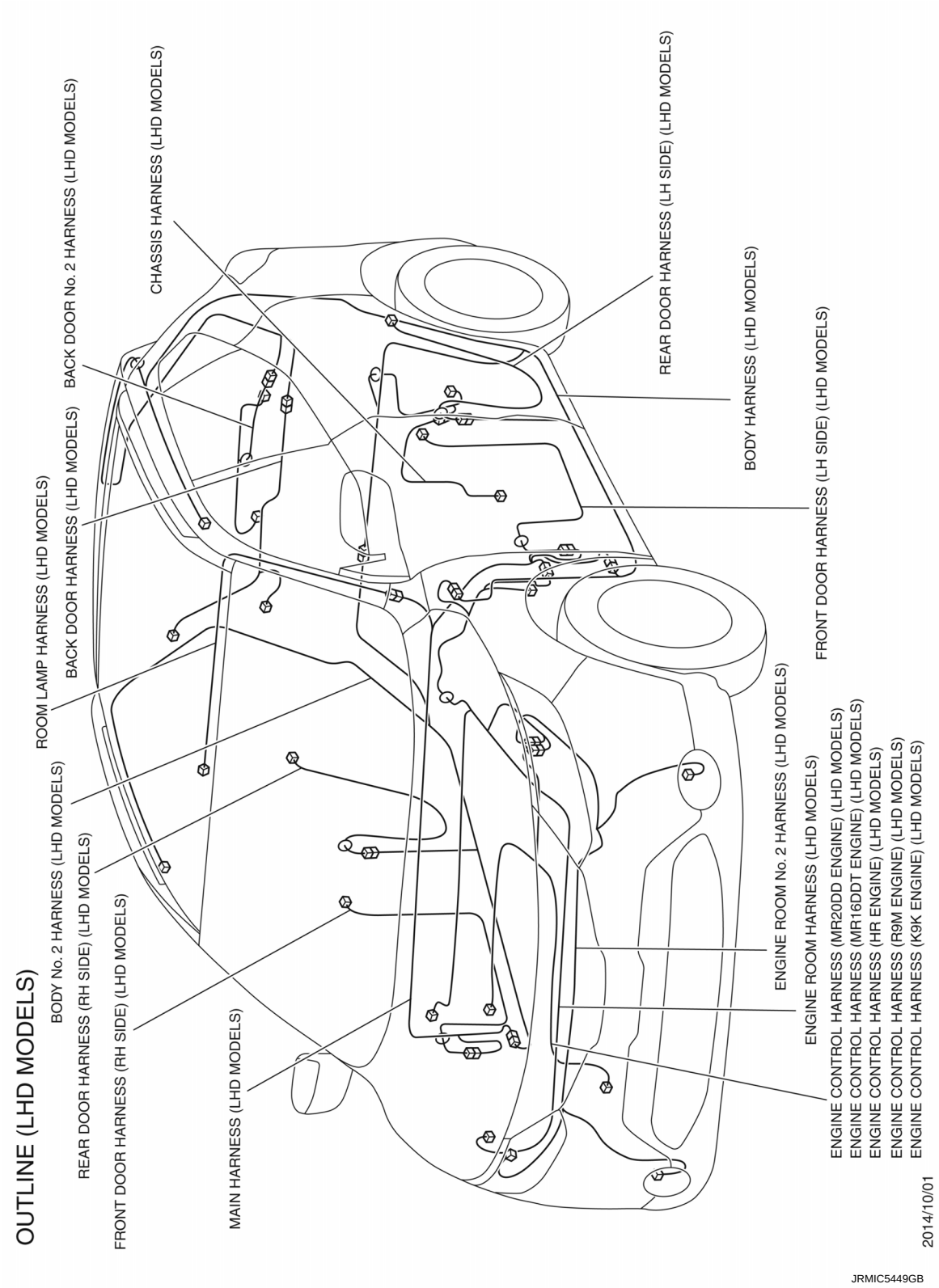
JRMWG7487GB

HARNESS LAYOUT

LHD

LHD : Outline

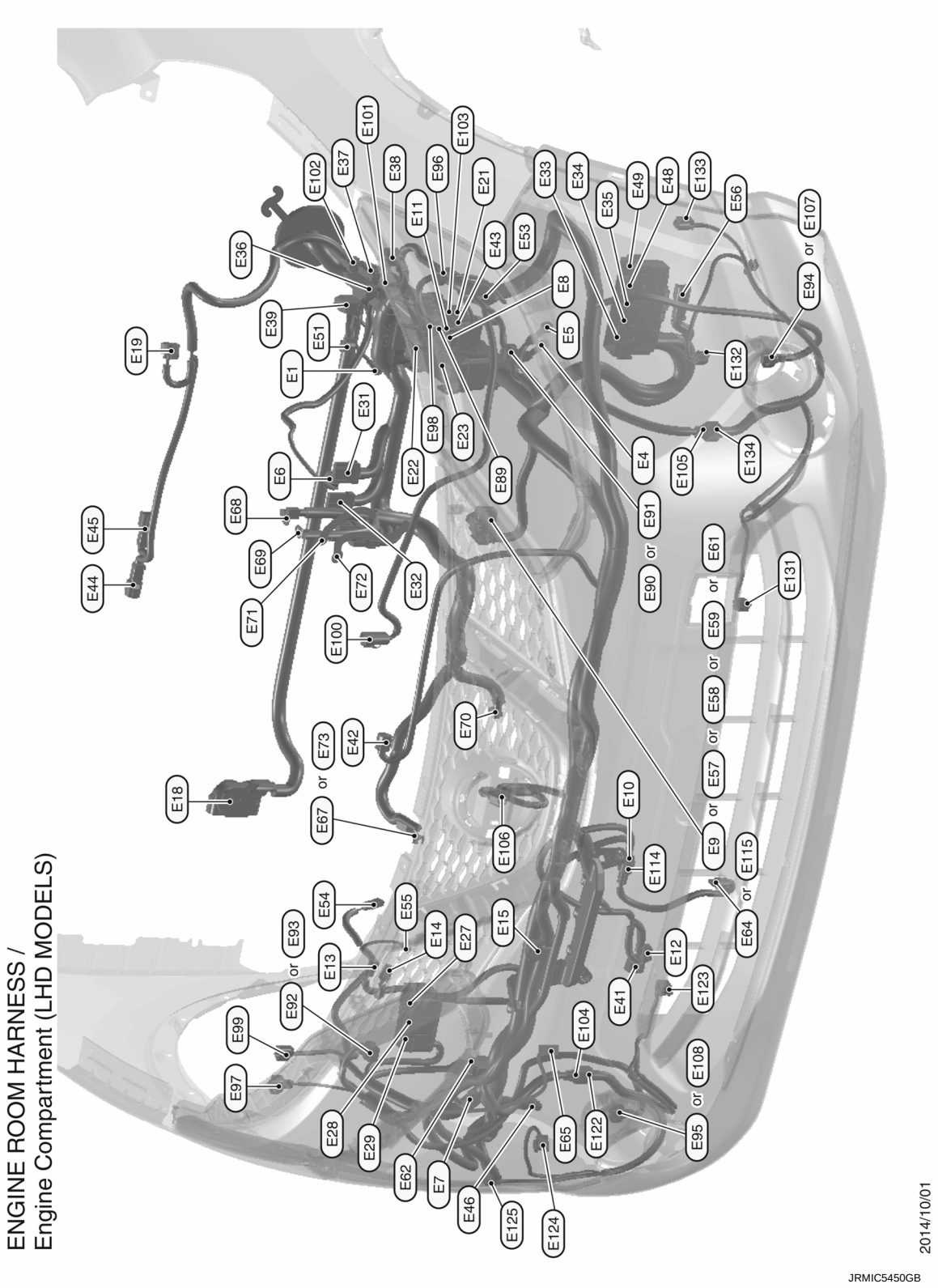
INFOID:0000000010464082

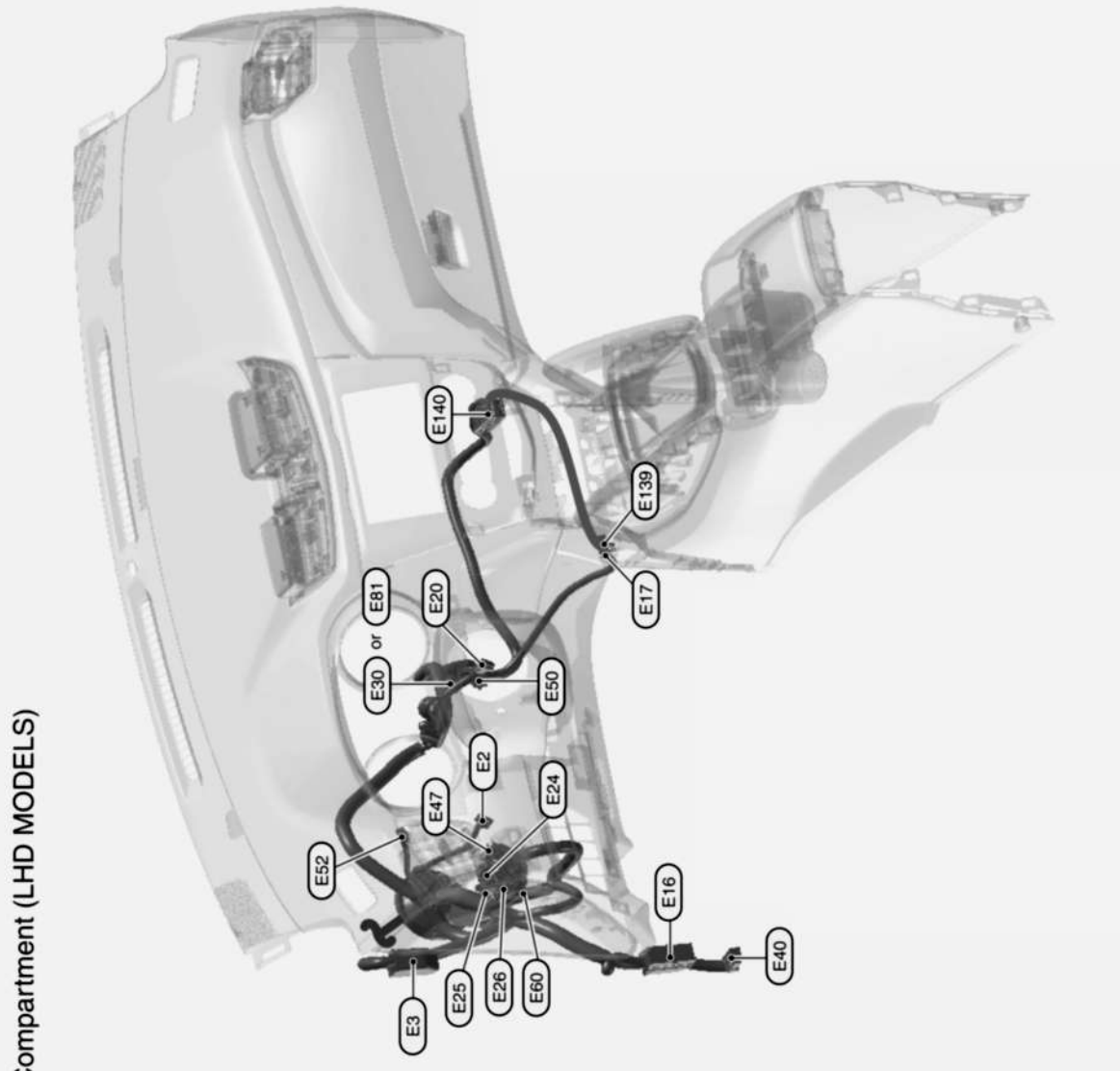


LHD : Engine Room Harness

INFOID:0000000010464083

ENGINE COMPARTMENT





Passenger Compartment (LHD MODELS)

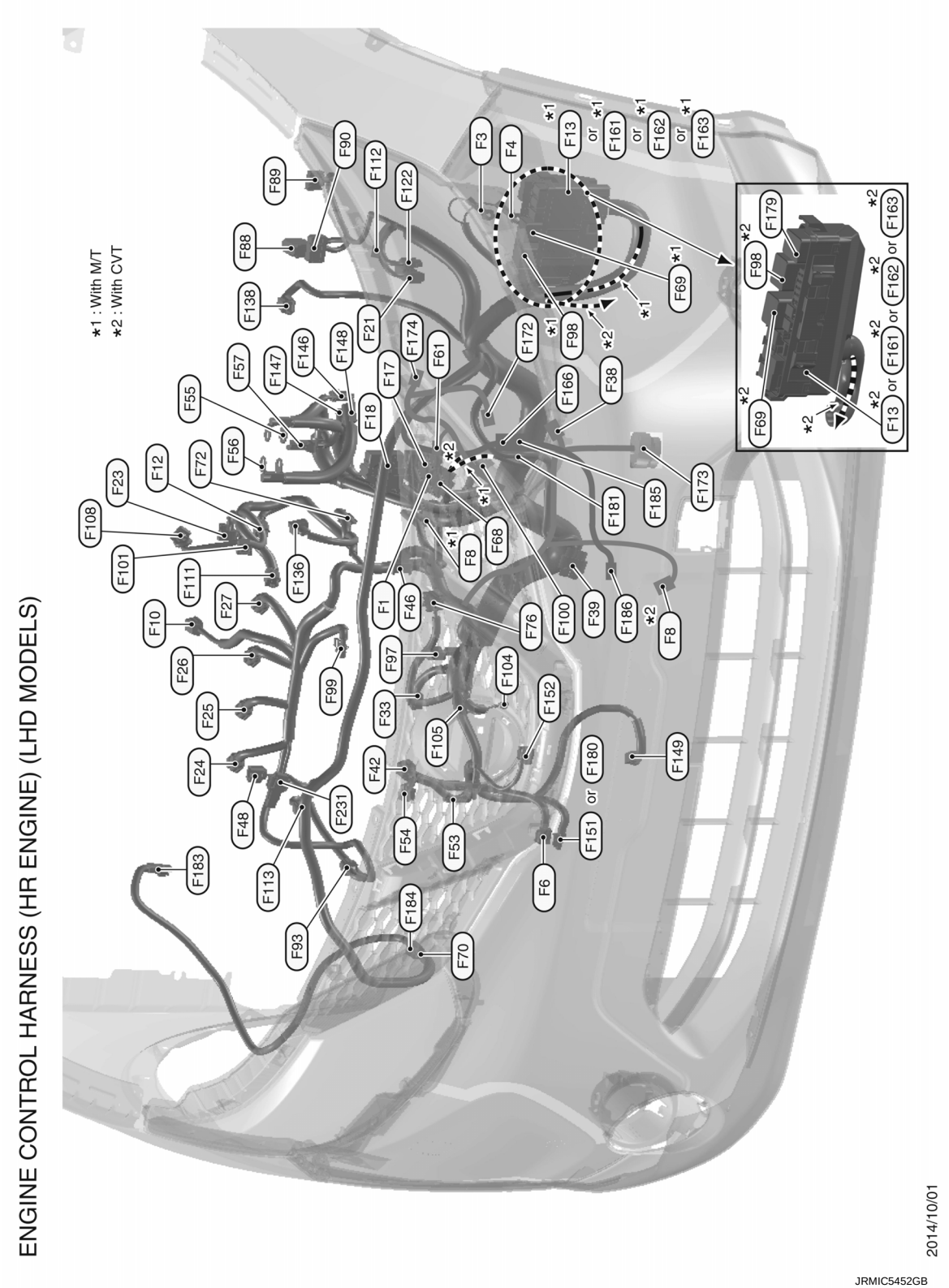
2014/10/01

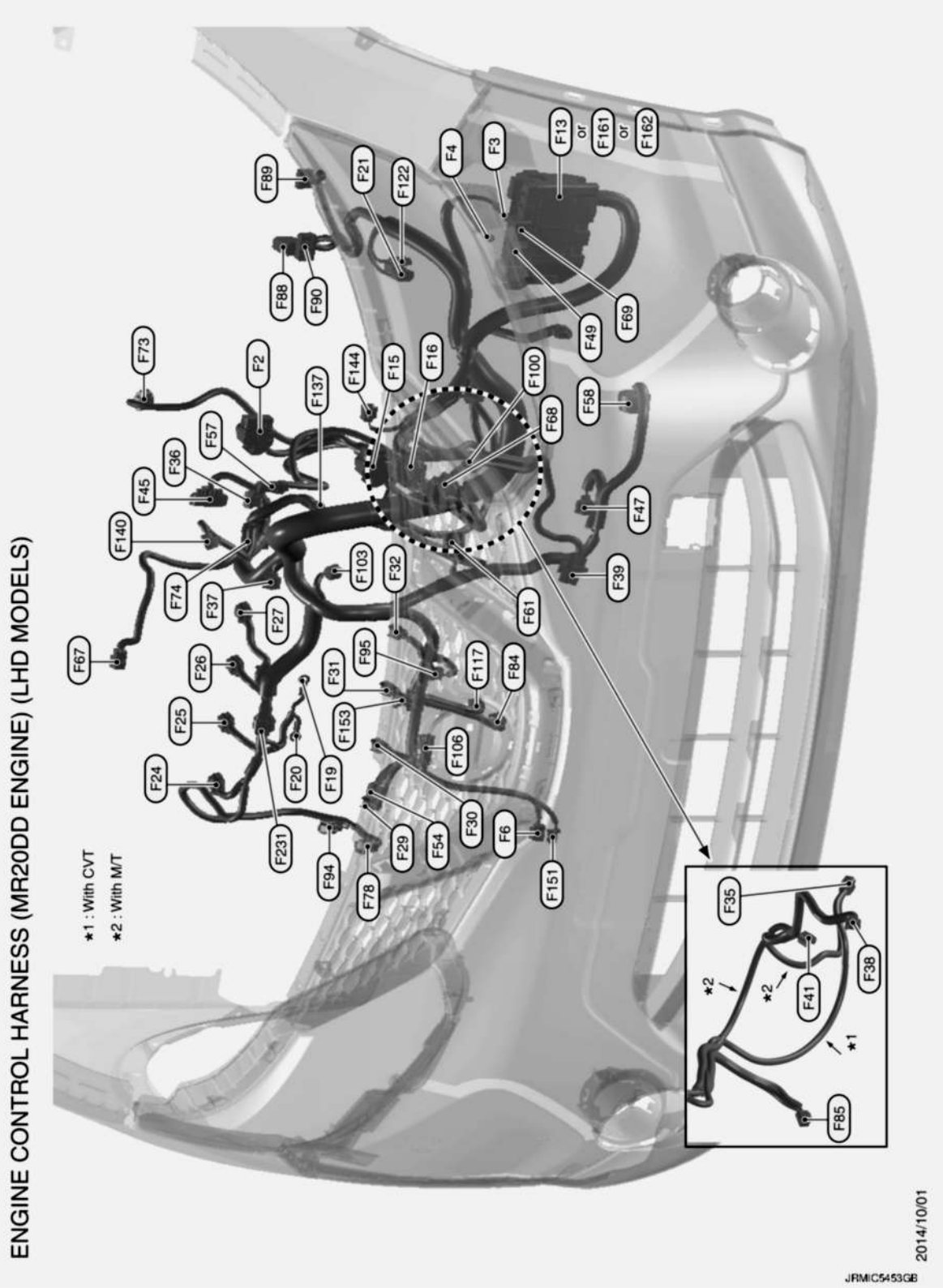
JRMIC5451GB

LHD : Engine Control Harness

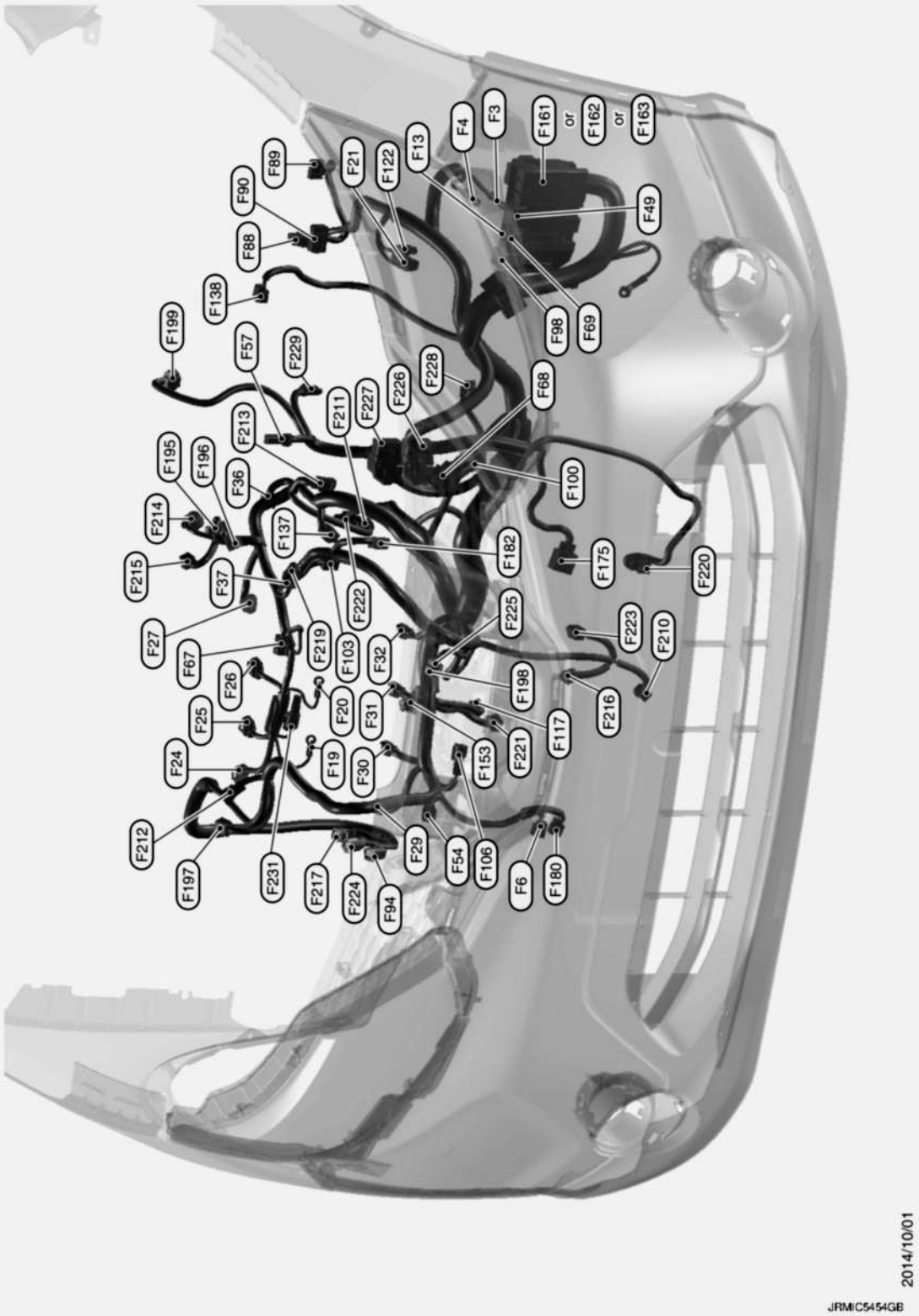
INFOID:0000000010464084

HR ENGINE



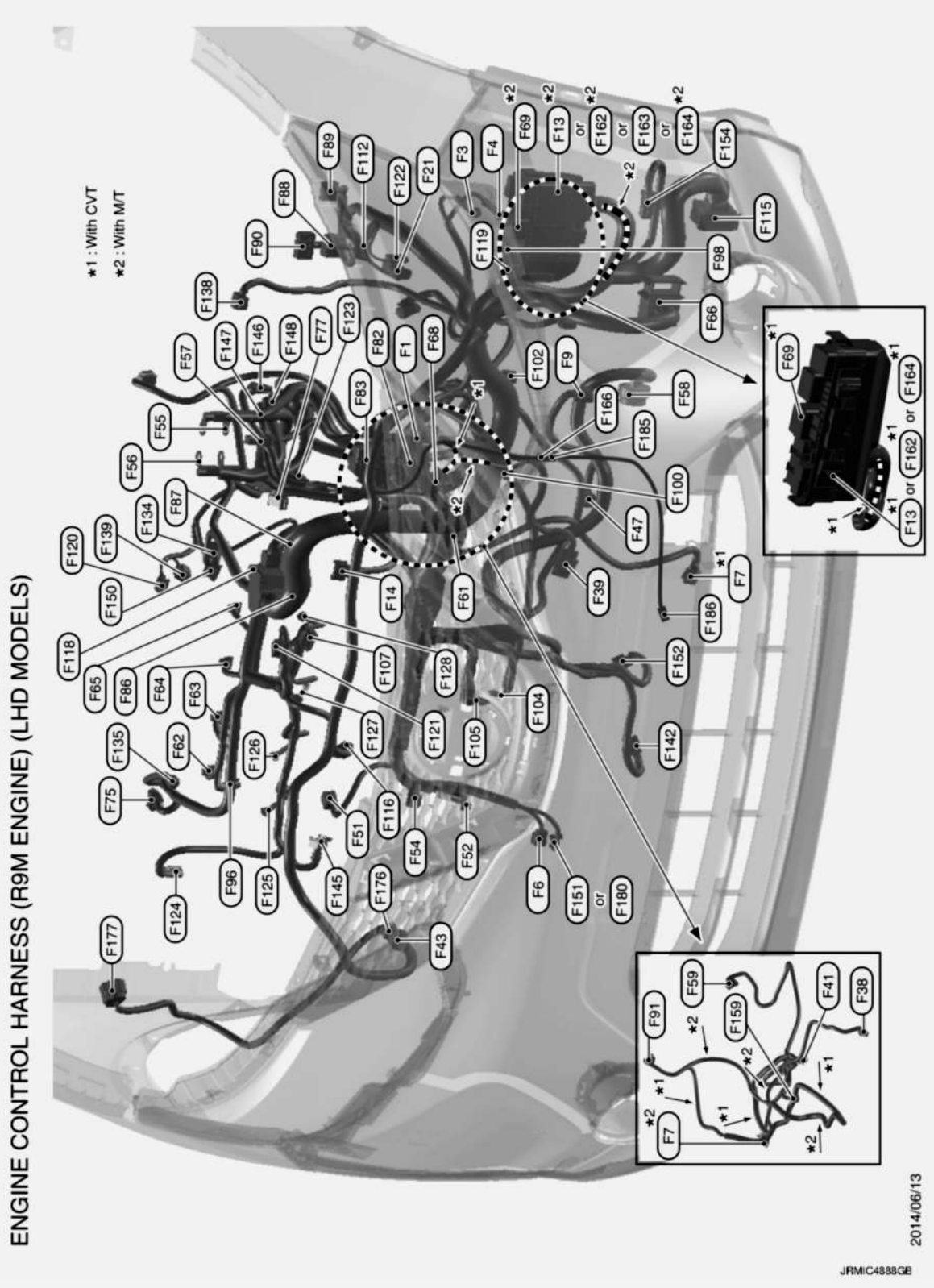

ENGINE CONTROL HARNESS (MR20DD ENGINE) (LHD MODELS)
*1 : With CVT
*2 : With M/T
F67
F73
F140
F45
F36
F57
F2
F74
F37
F27
F137
F144
F15
F16
F100
F68
F58
F47
F39
F61
F103
F32
F95
F31
F153
F117
F84
F26
F25
F24
F20
F19
F231
F94
F78
F29
F54
F30
F106
F6
F151
F89
F88
F90
F21
F122
F4
F3
F13
or
F161
or
F162
F49
F69
F35
F38
F41
F85
2014/10/01
JRMIC5453GB

ENGINE CONTROL HARNESS (MR16DDT ENGINE) (LHD MODELS)

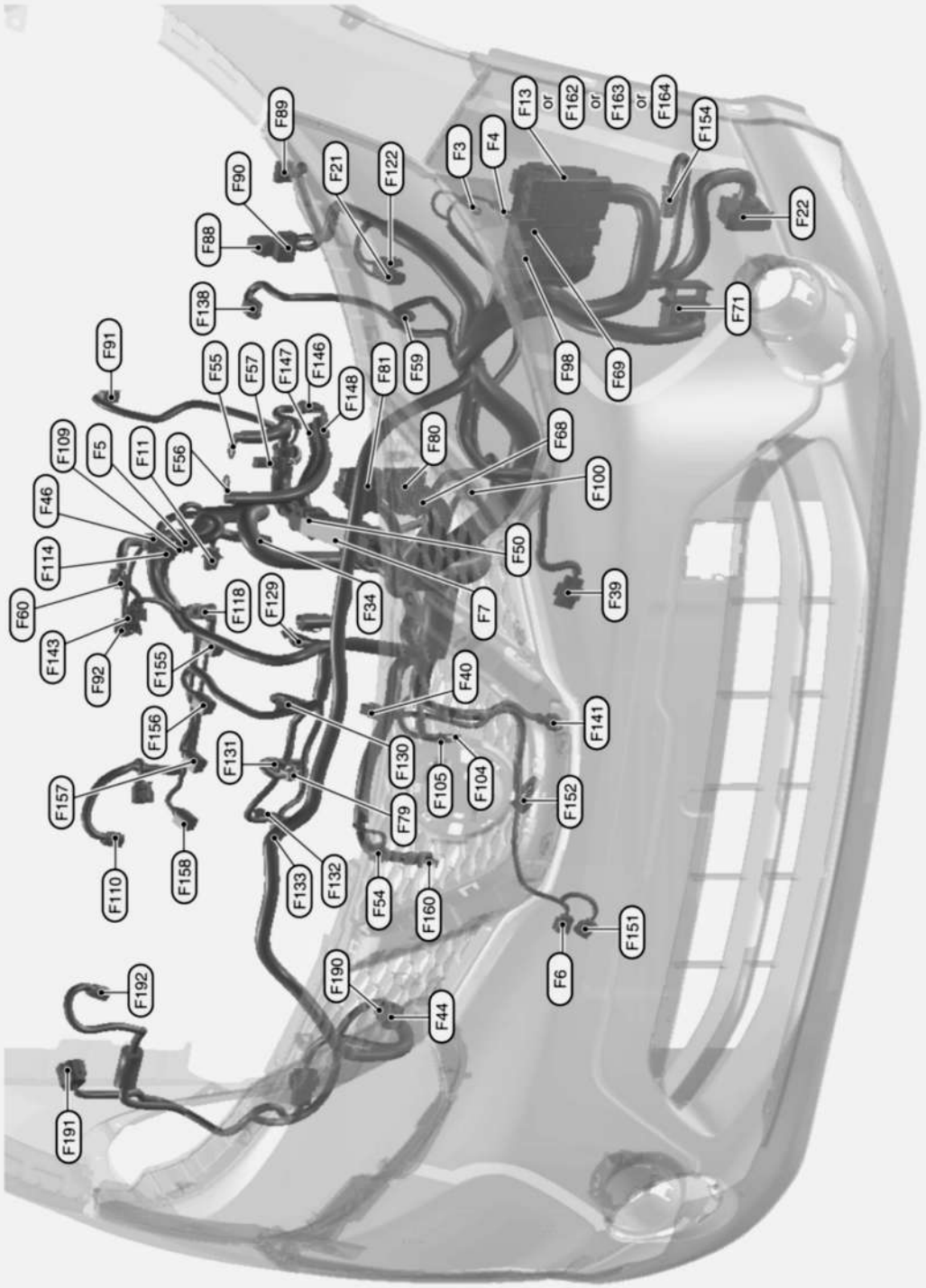


2014/10/01

JRMIC5454GB


ENGINE CONTROL HARNESS (R9M ENGINE) (LHD MODELS)
*1 : With CVT
*2 : With M/T
F177
F124
F96
F125
F145
F176
F43
F75
F135
F62
F126
F51
F116
F54
F52
F6
F151
or
F180
F118
F65
F86
F64
F63
F107
F128
F121
F127
F105
F104
F14
F61
F120
F139
F134
F87
F150
F56
F55
F57
F147
F146
F148
F77
F123
F138
F90
F88
F89
F112
F122
F21
F3
F4
F119
F69
F13
or
F162
or
F163
or
F164
F154
F115
F98
F66
F102
F9
F166
F185
F58
F100
F47
F39
F186
F7
F152
F142
F82
F1
F68
F83
F69
F13 or F162 or F164
F91
F59
F159
F41
F38
2014/06/13
JRMIC4888GB

ENGINE CONTROL HARNESS (K9K ENGINE) (LHD MODELS)



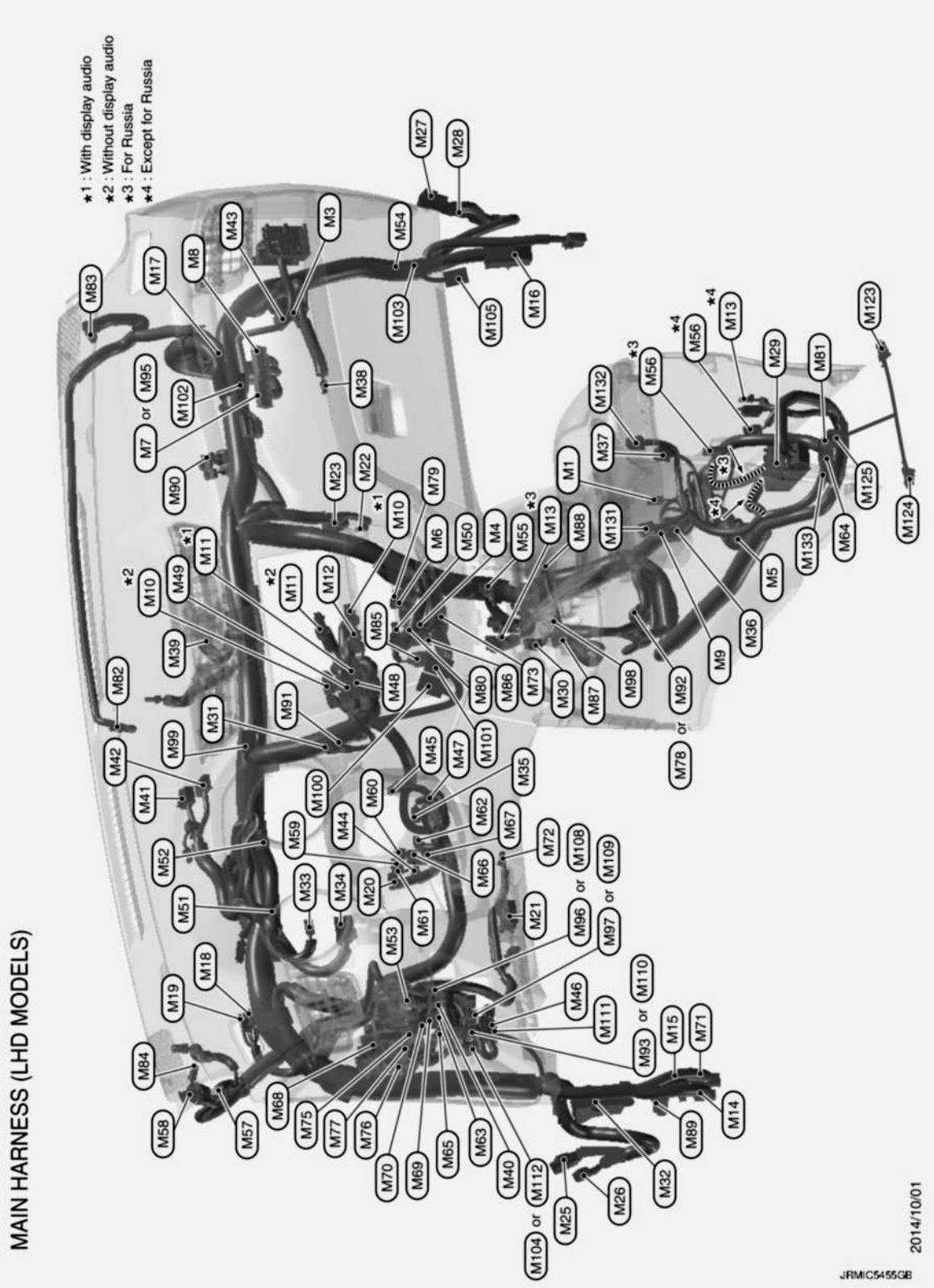
2013/11/20

JRMIC4130GB

< WIRING DIAGRAM >

LHD : Main Harness

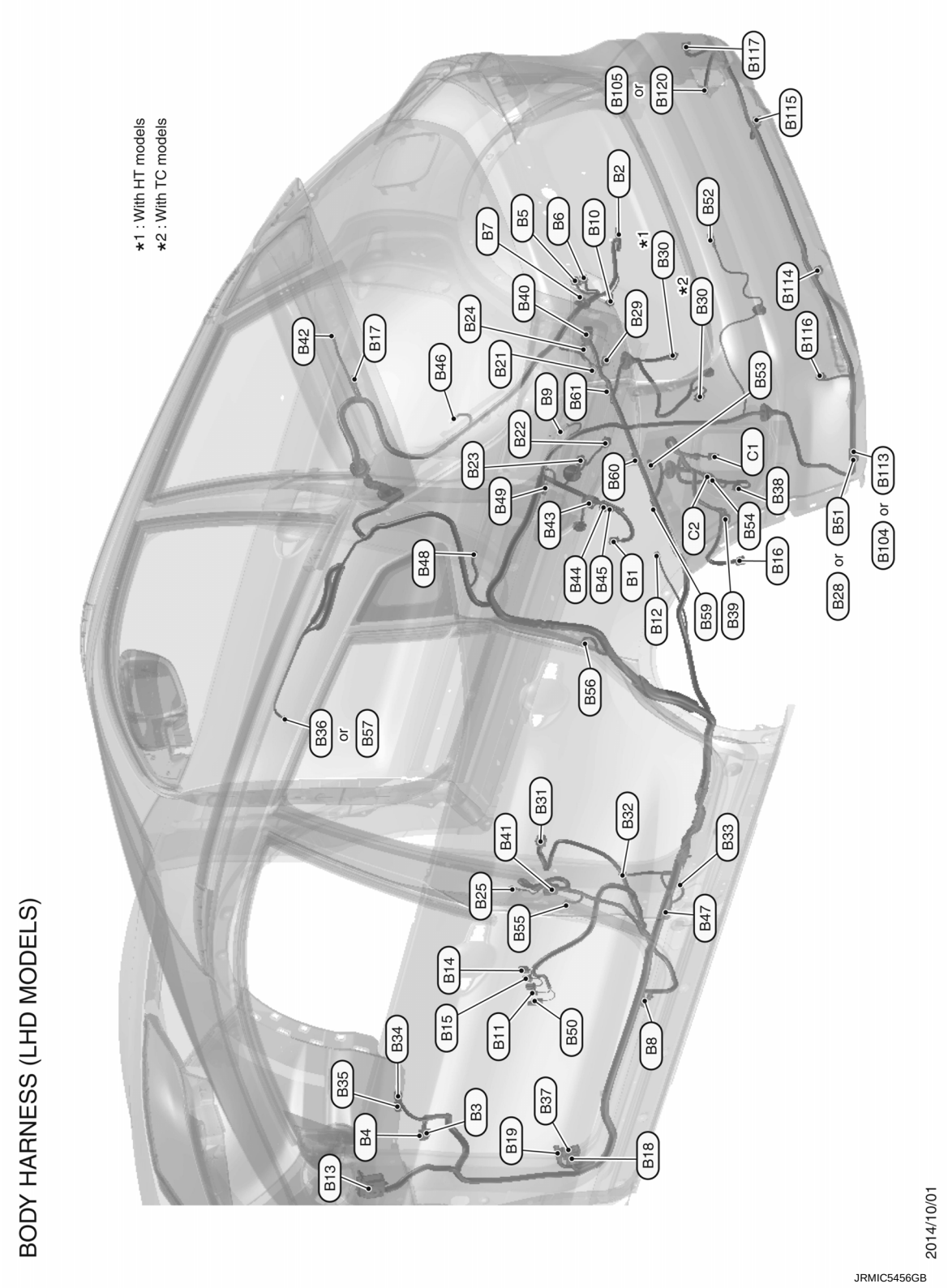
INFOID:0000000010464085

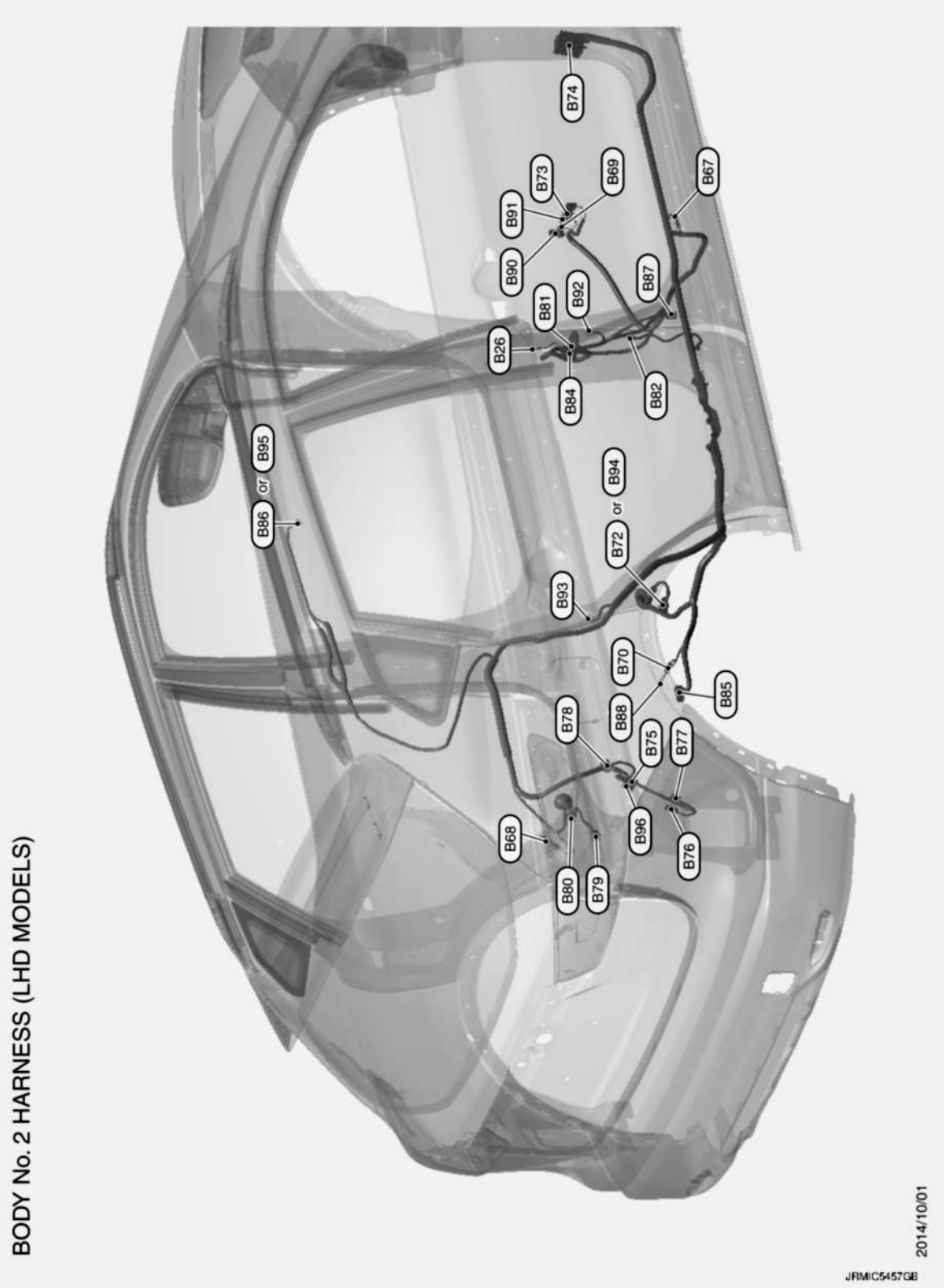


LHD : Body Harness

INFOID:0000000010464086

BODY HARNESS

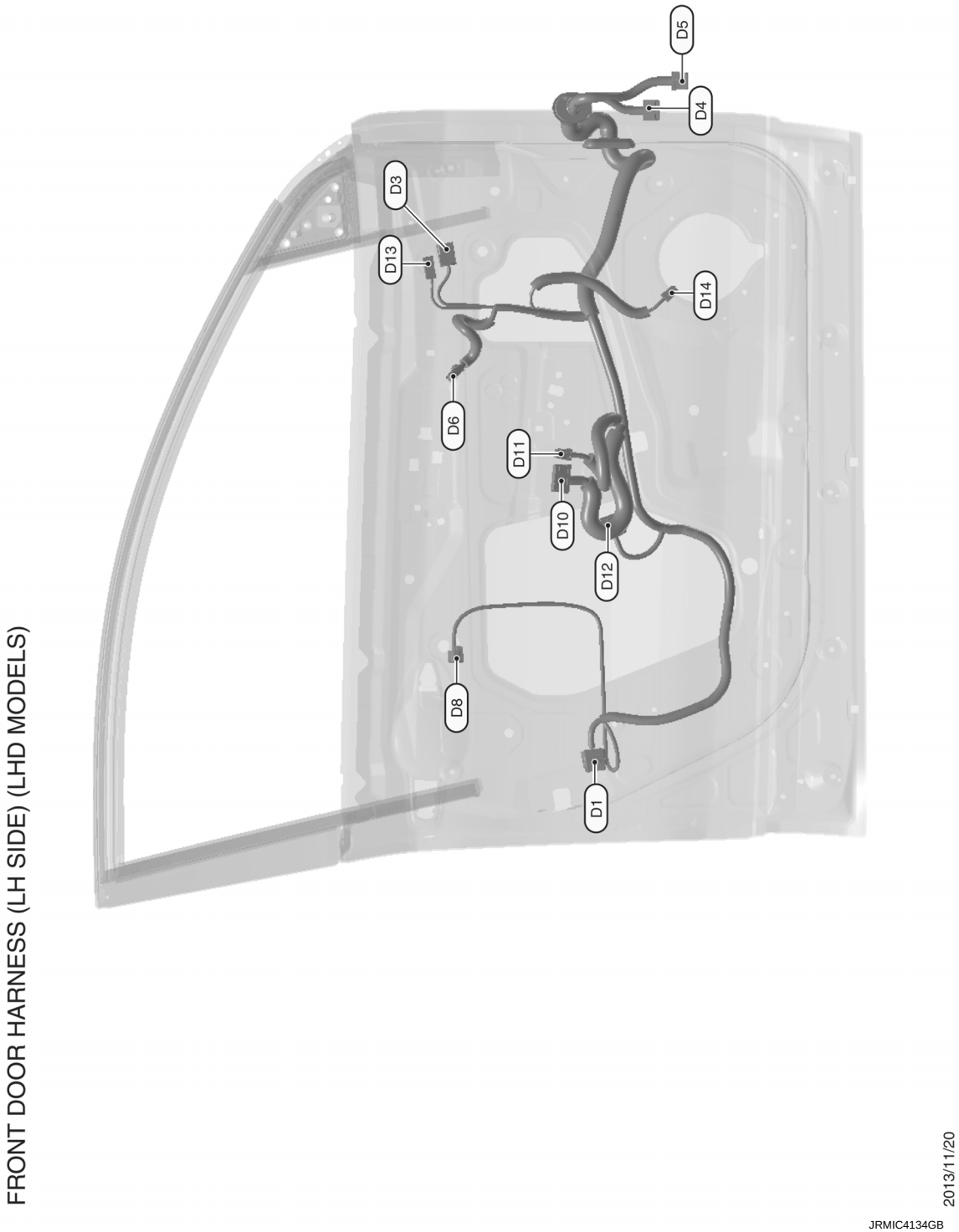



B74
B73
B69
B67
B91
B90
B87
B81
B92
B26
B84
B82
B86
or
B95
B94
or
B72
B93
B70
B85
B88
B78
B75
B77
B68
B96
B76
B80
B79
BODY No. 2 HARNESS (LHD MODELS)
2014/10/01
JRMIC5457GB

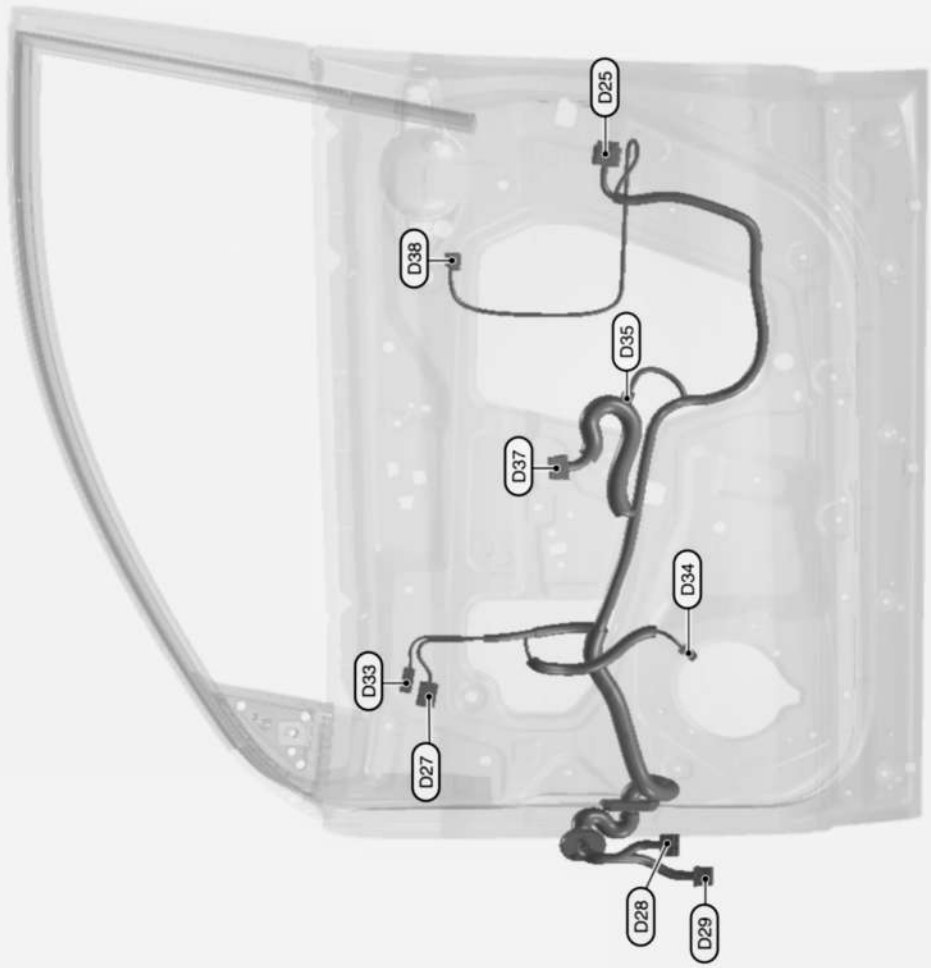
LHD : Door Harness

INFOID:0000000010464087

FRONT DOOR HARNESS (LH SIDE)



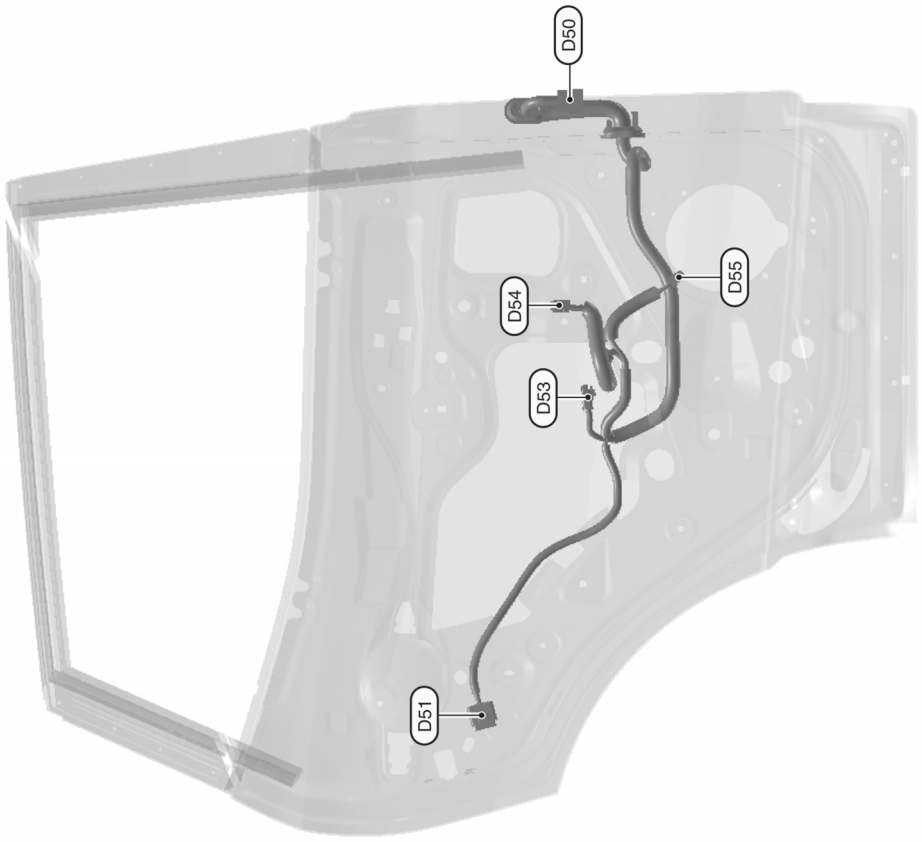
FRONT DOOR HARNESS (RH SIDE) (LHD MODELS)



2013/11/20

JRMIC4135GB

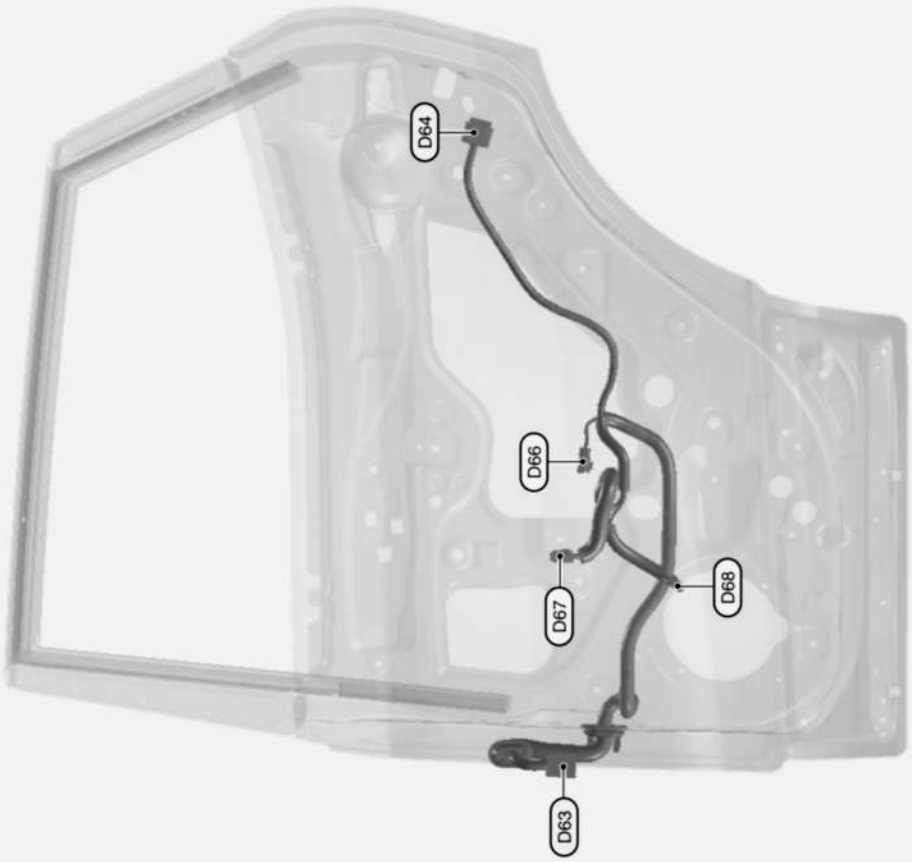
REAR DOOR HARNESS (LH SIDE) (LHD MODELS)



2013/11/20

JRMIC4136GB

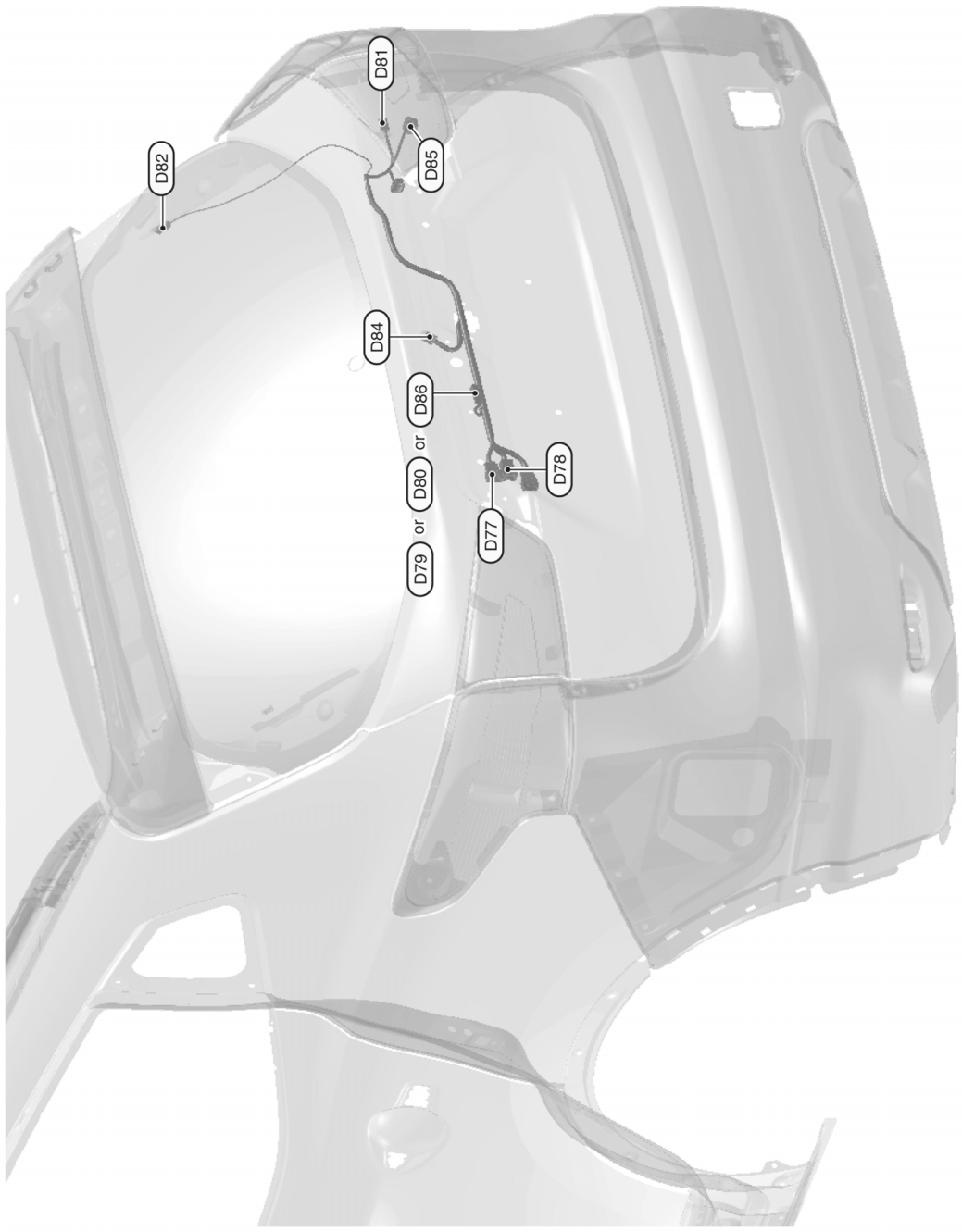
REAR DOOR HARNESS (RH SIDE) (LHD MODELS)



2013/11/20

JRMIC4137GB

BACK DOOR HARNESS (LHD MODELS)



2013/11/20

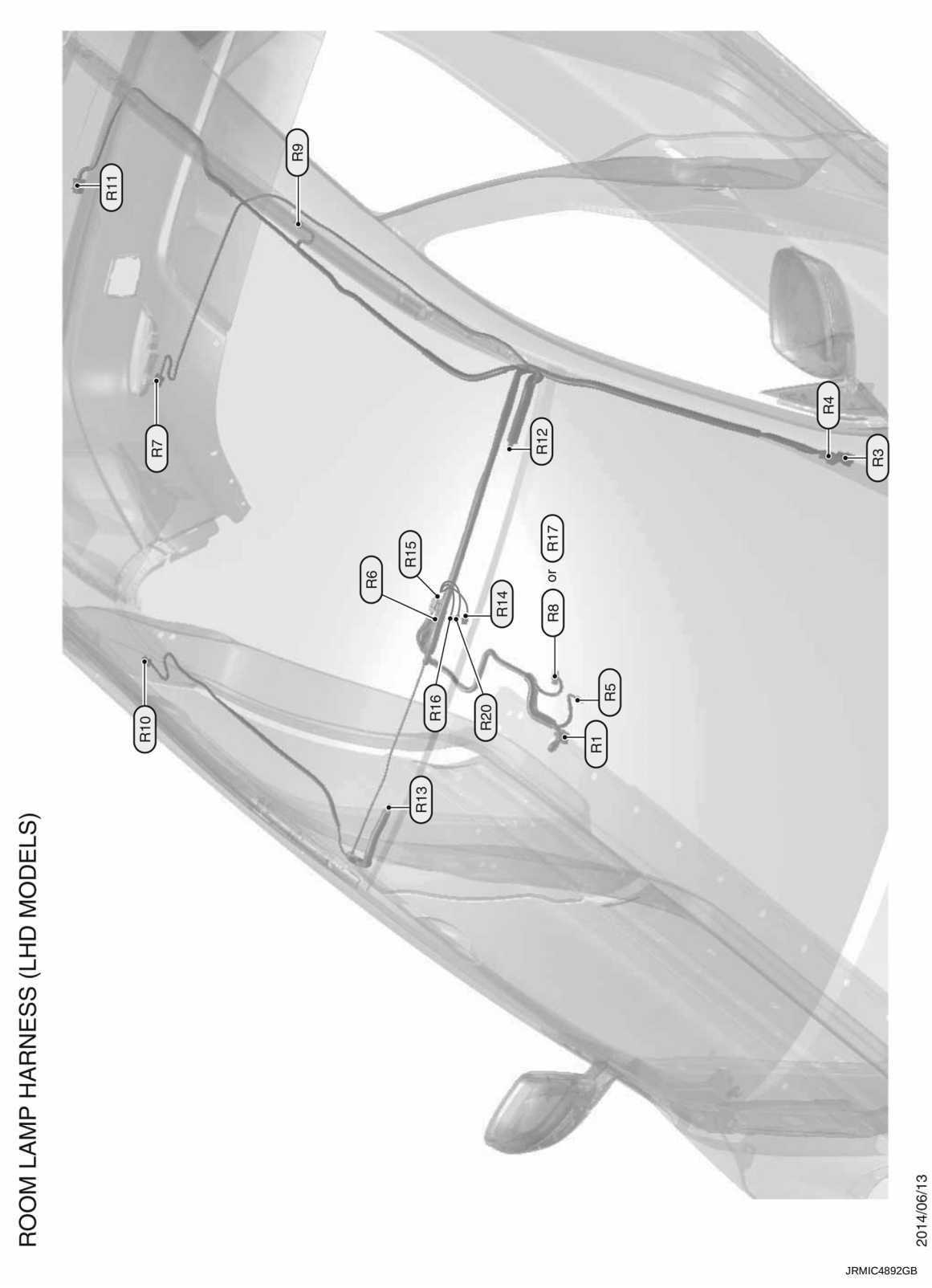
JRMIC4138GB

BACK DOOR No. 2 HARNESS (LHD MODELS)



LHD : Room Lamp Harness

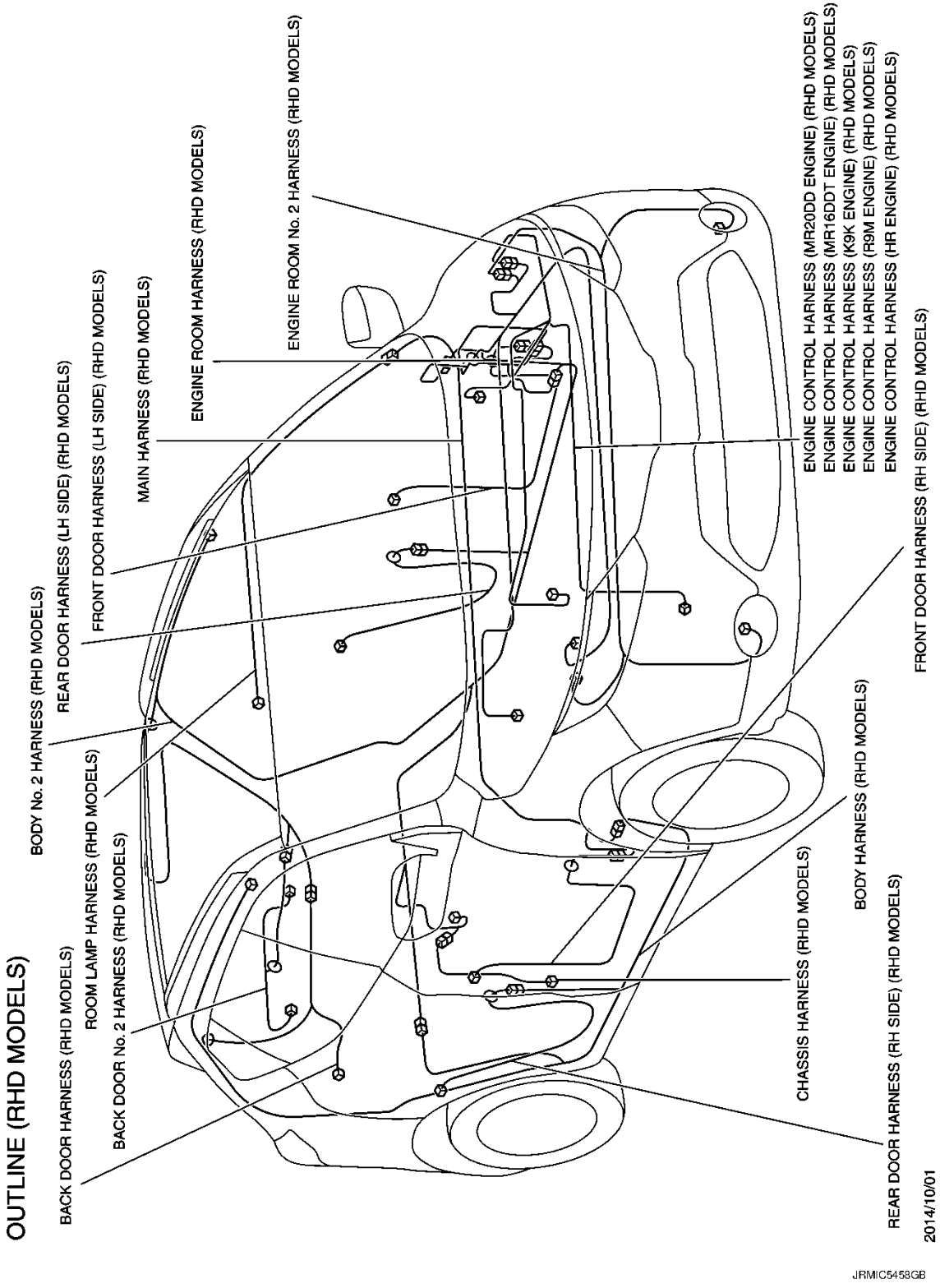
INFOID:0000000010464088



RHD

RHD : Outline

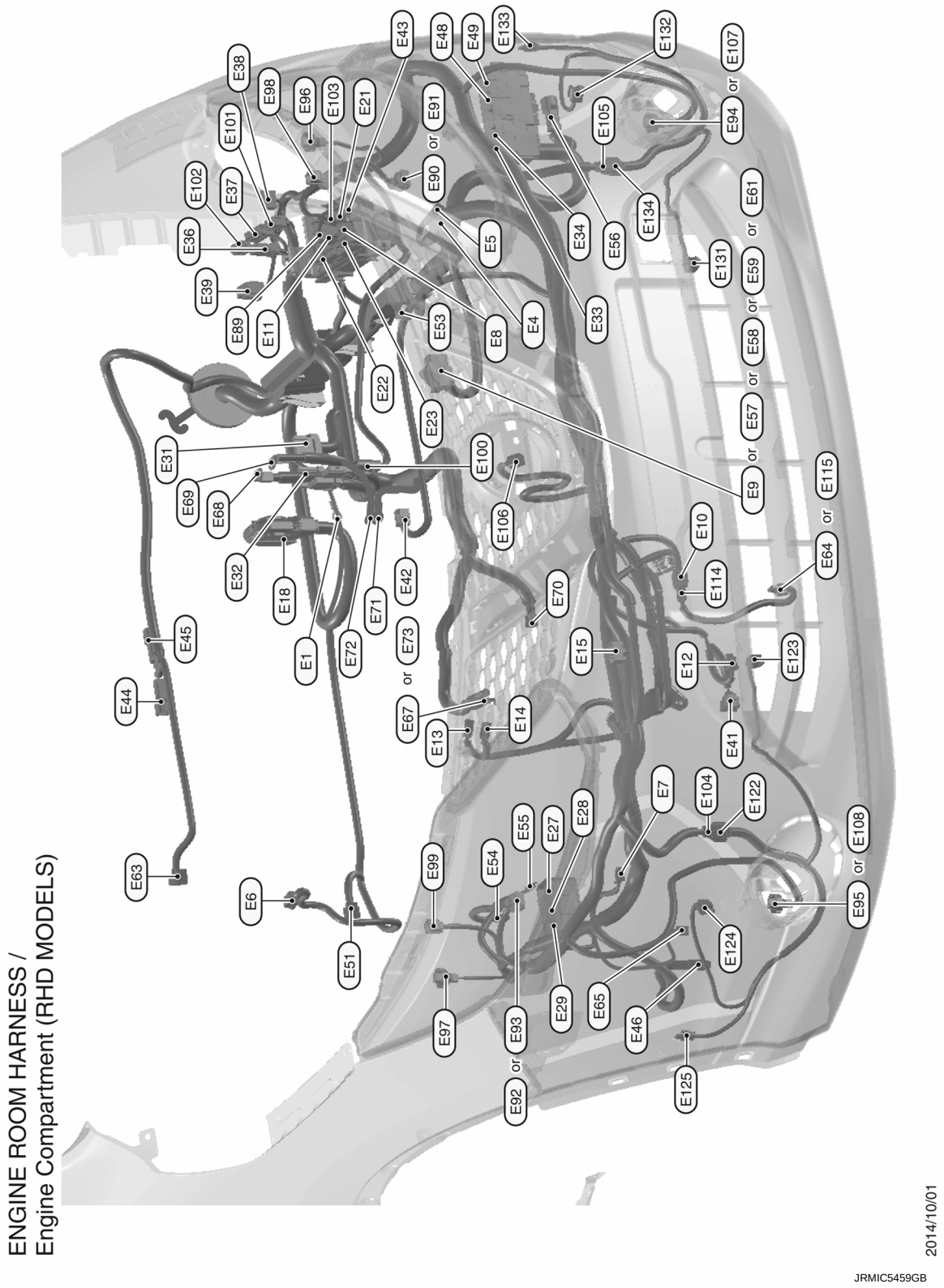
INFOID 0000000010464089

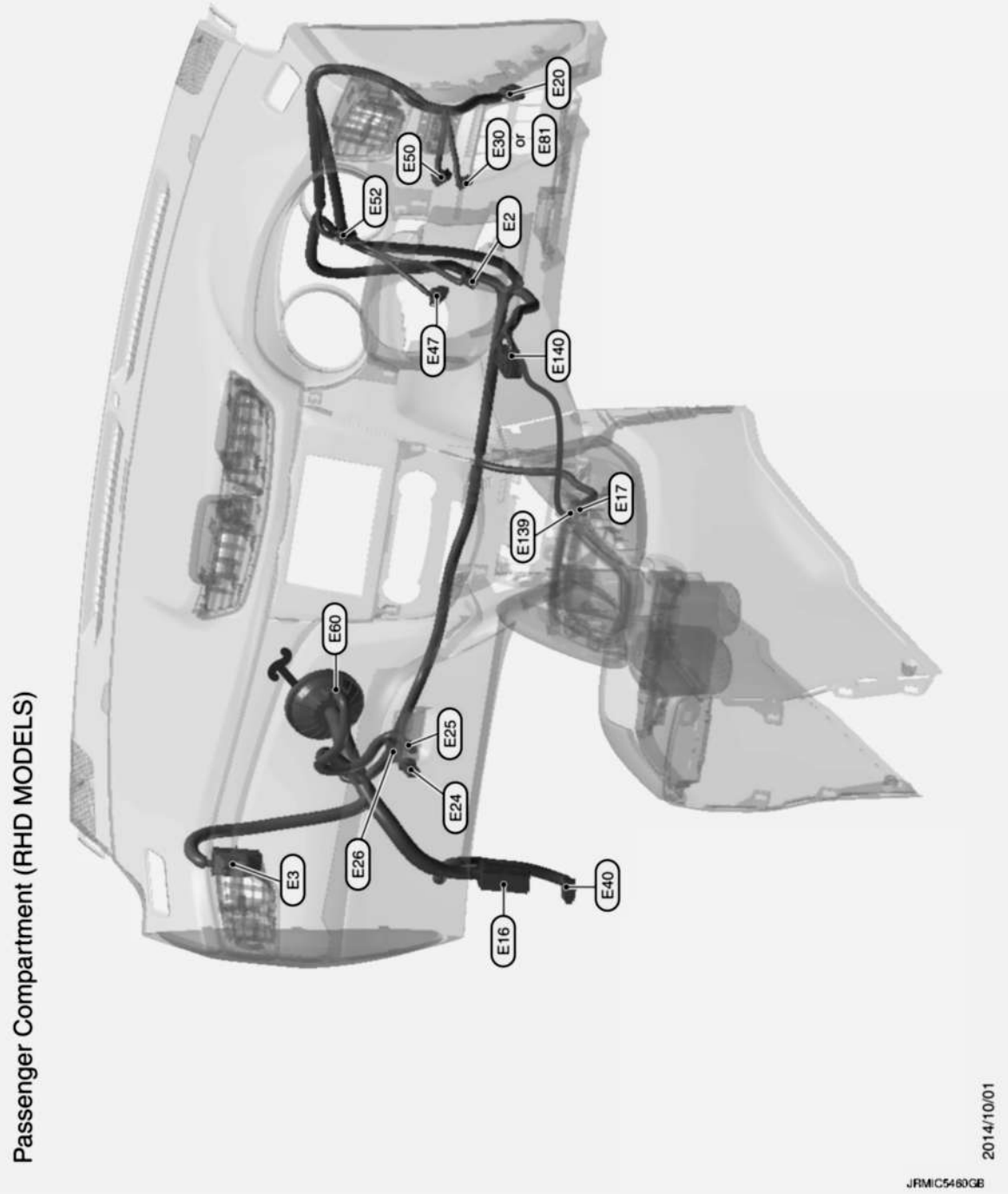


RHD : Engine Room Harness

INFOID:0000000010464090

ENGINE COMPARTMENT

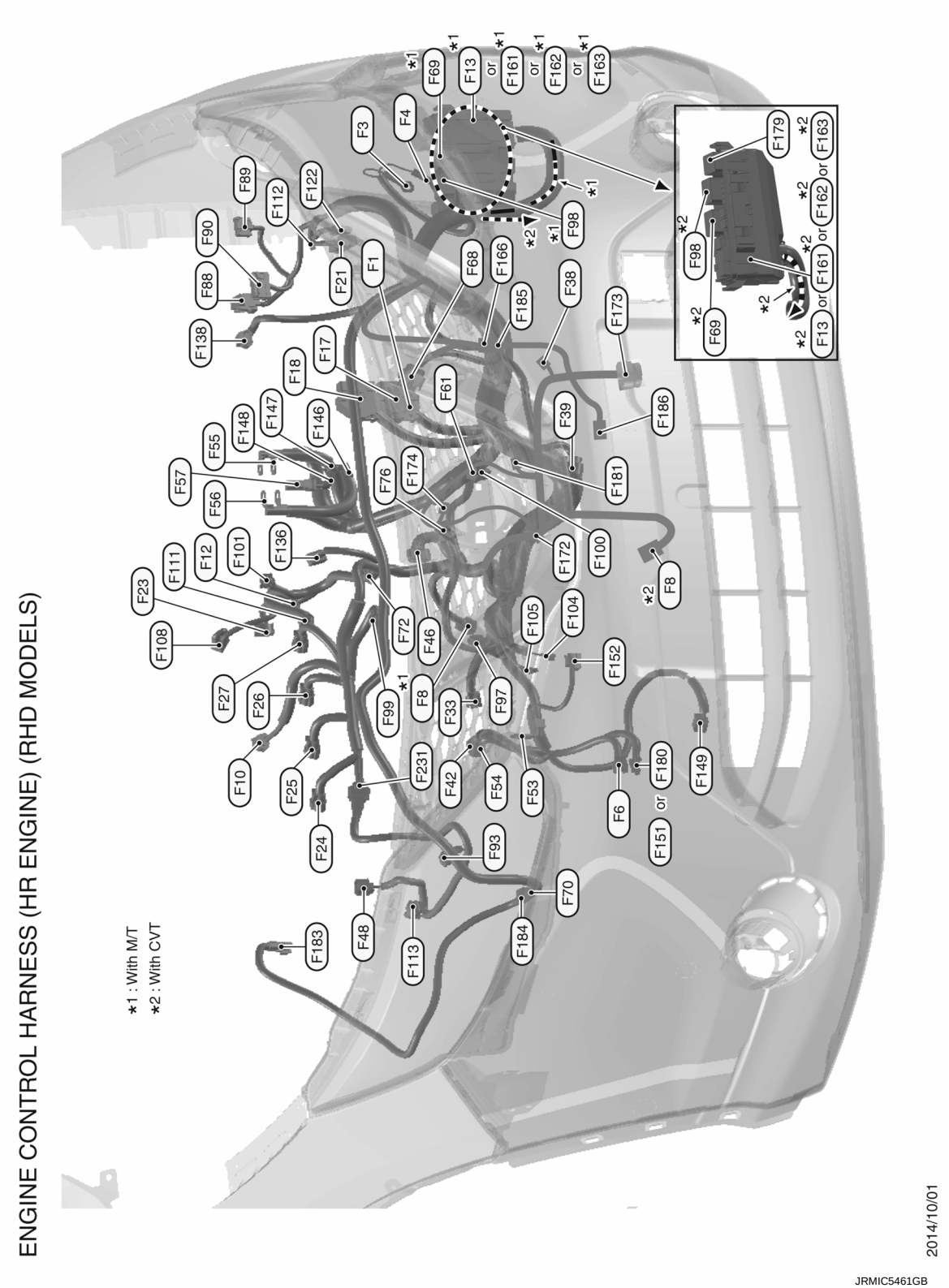



E20
E30
or
E81
E50
E52
E2
E47
E140
E17
E139
E60
E25
E24
E26
E3
E40
E16
Passenger Compartment (RHD MODELS)
2014/10/01
JRMIC5480GB

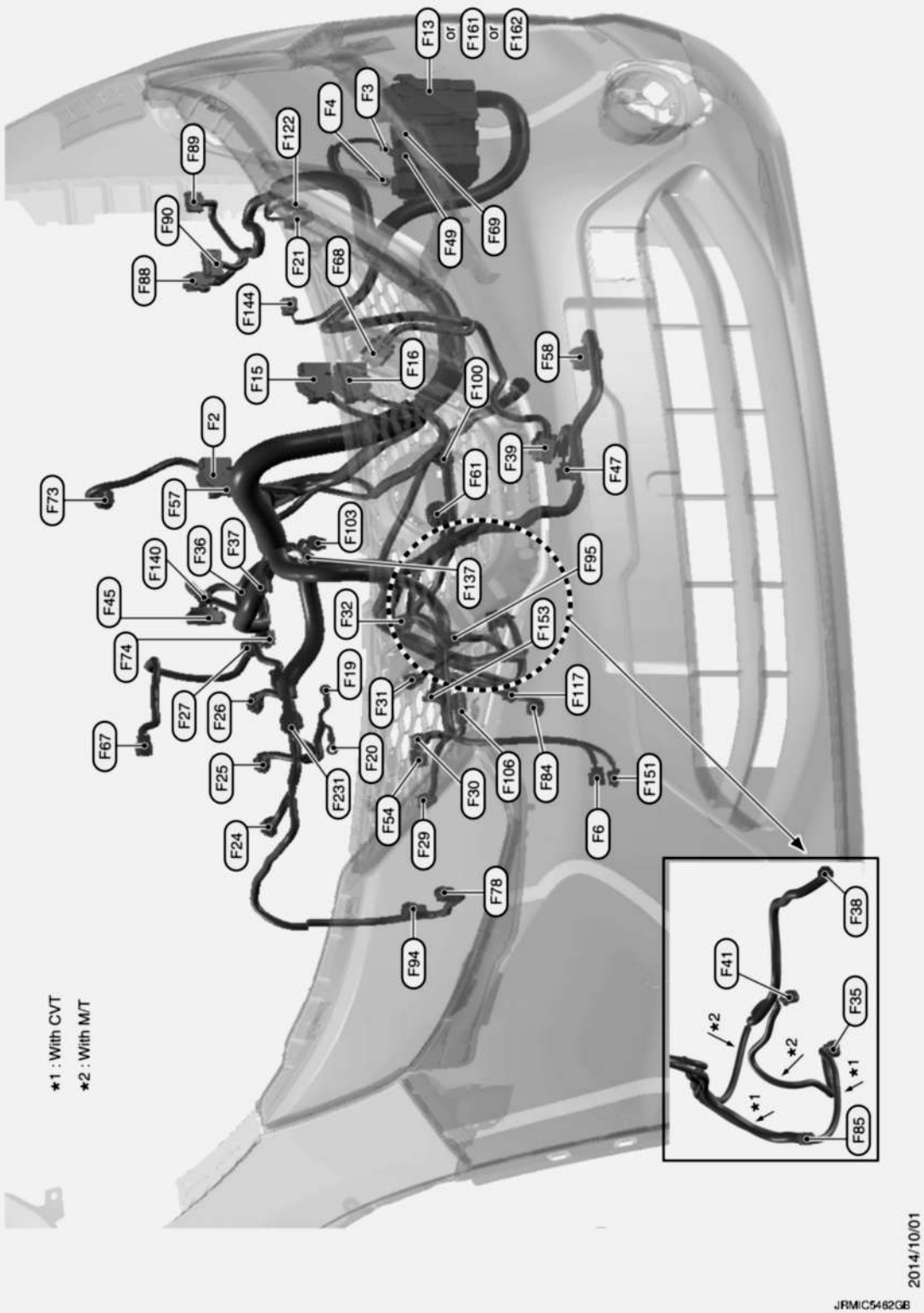
RHD : Engine Control Harness

INFOID:0000000010464091

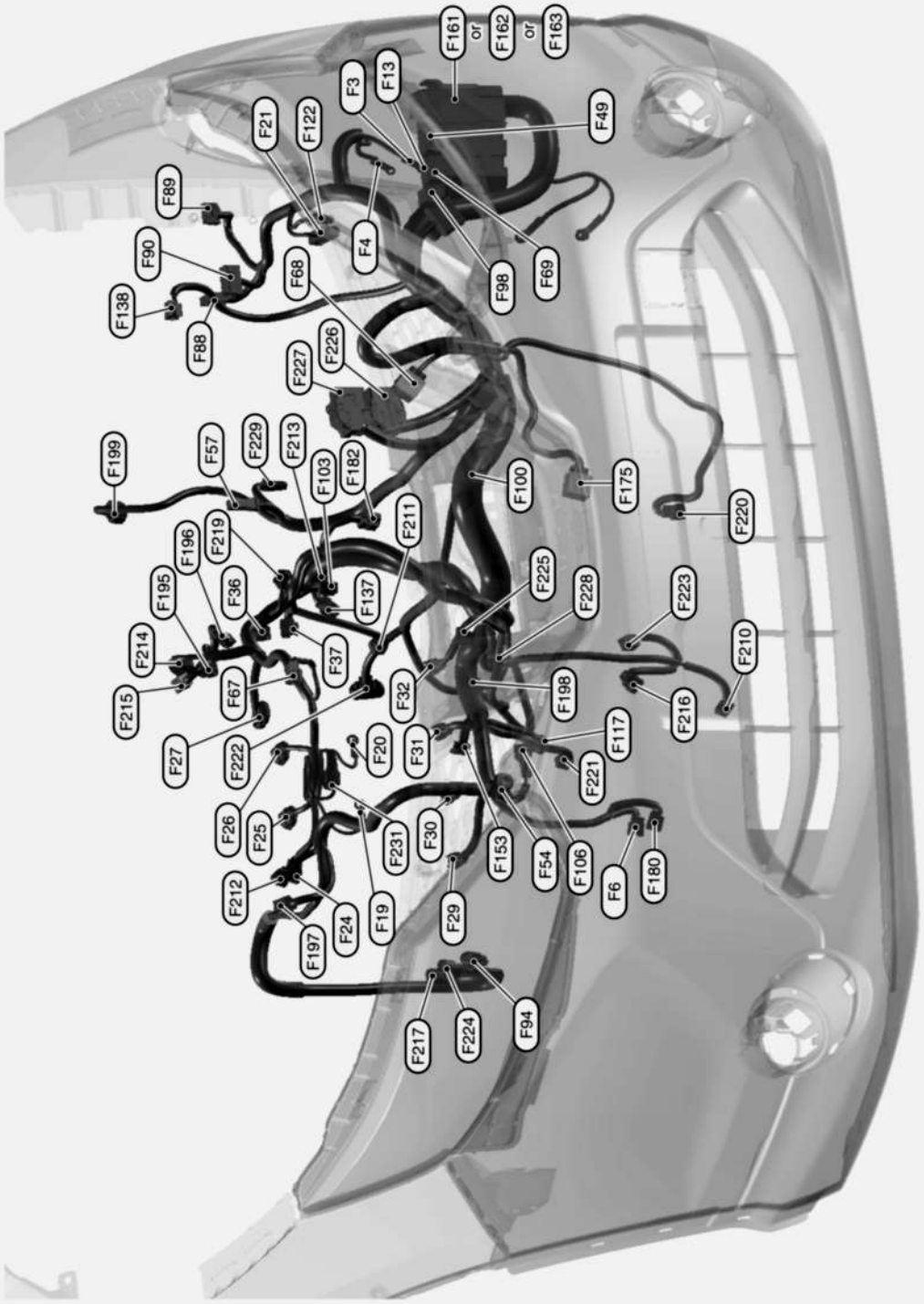
HR ENGINE



ENGINE CONTROL HARNESS (MR20DD ENGINE) (RHD MODELS)

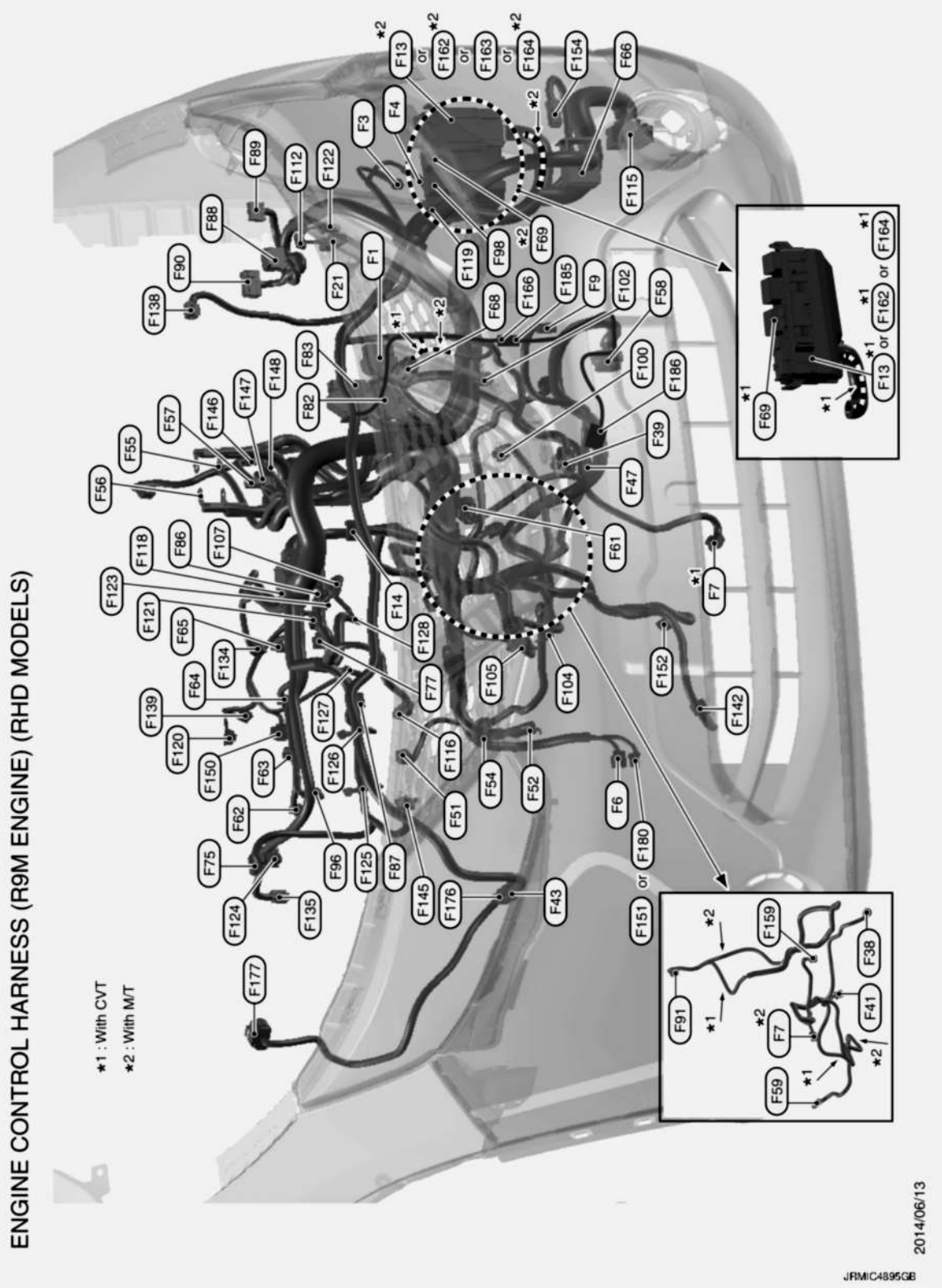


ENGINE CONTROL HARNESS (MR16DDT ENGINE) (RHD MODELS)

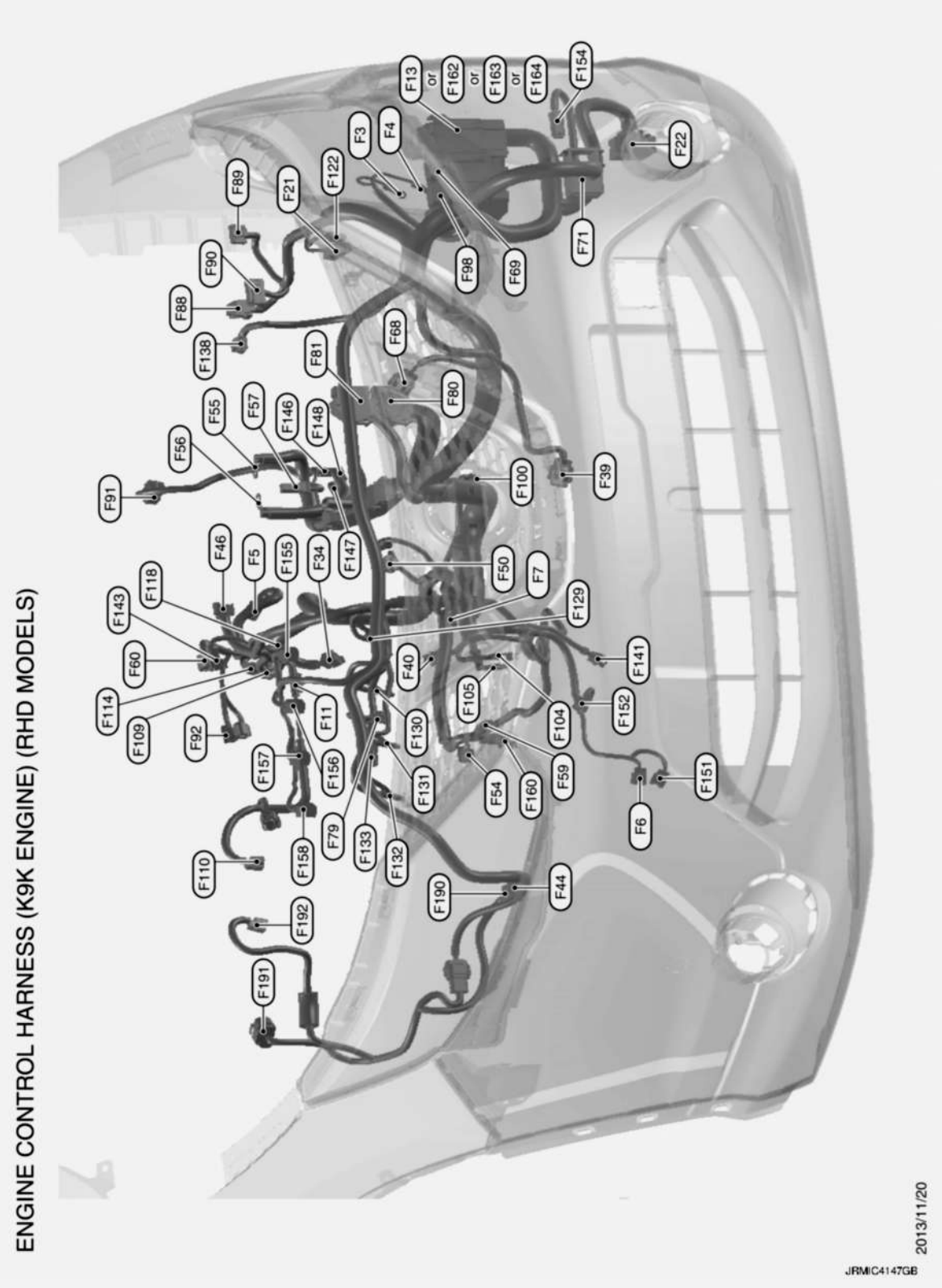


2014/10/01

JRMIC5463GB

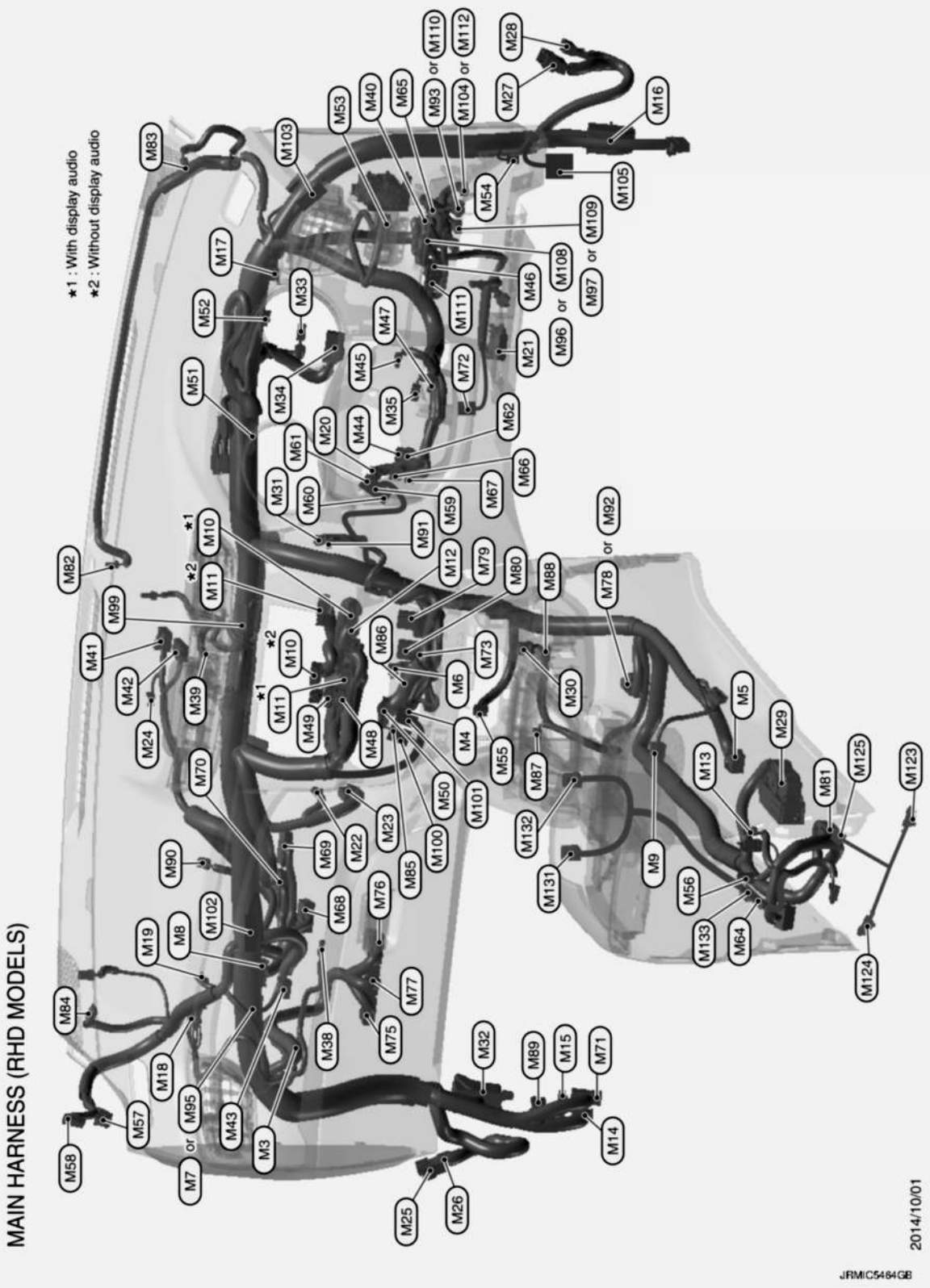

ENGINE CONTROL HARNESS (R9M ENGINE) (RHD MODELS)
*1 : With CVT
*2 : With M/T
F13
or
F162
or
F163
or
F164
F154
F66
F115
F3
F4
F89
F112
F122
F88
F90
F138
F21
F1
F119
F98
F69
F68
F166
F185
F9
F102
F58
F100
F186
F39
F47
F61
F83
F82
F148
F147
F146
F57
F55
F56
F123
F121
F118
F86
F107
F14
F128
F65
F64
F134
F139
F120
F150
F63
F62
F75
F124
F135
F177
F127
F126
F96
F125
F87
F145
F176
F43
F116
F51
F54
F52
F105
F104
F77
F6
F180
F151
F152
F142
F7
F69
F91
F59
F7
F159
F38
F41
2014/06/13
JRMIC4895GB

ENGINE CONTROL HARNESS (K9K ENGINE) (RHD MODELS)



RHD : Main Harness

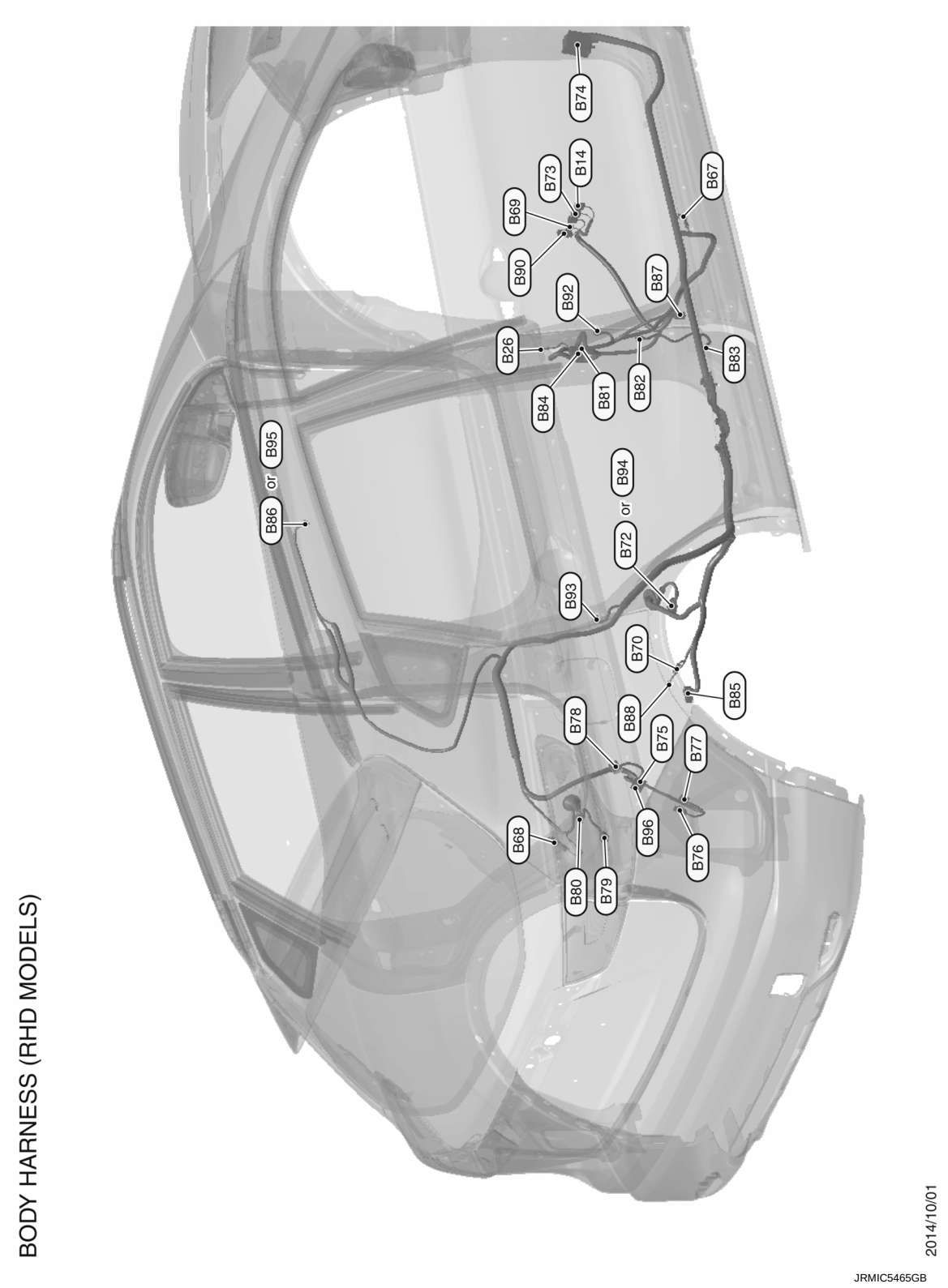
INFOID:0000000010464092

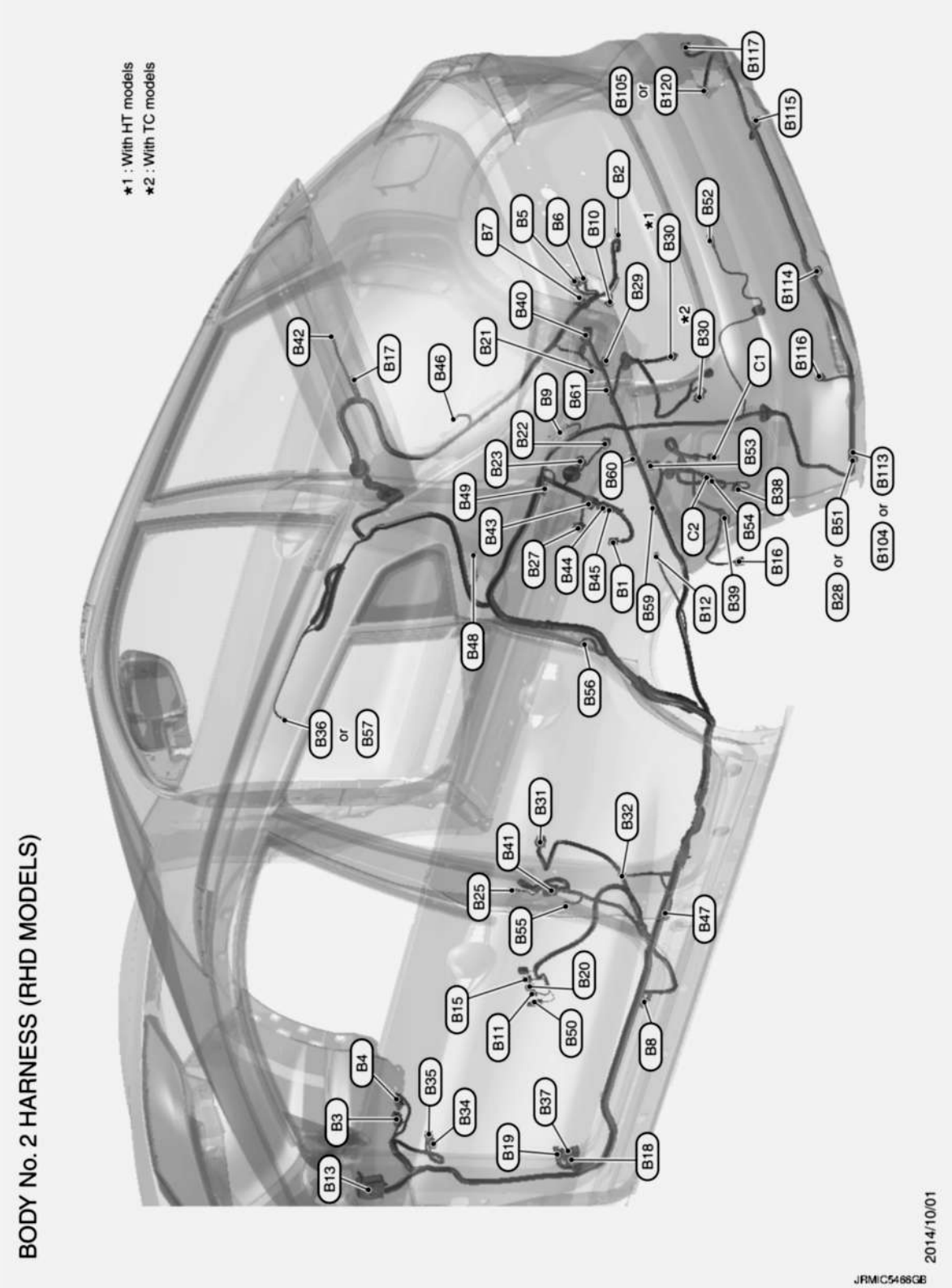


RHD : Body Harness

INFOID:0000000010464093

BODY HARNESS

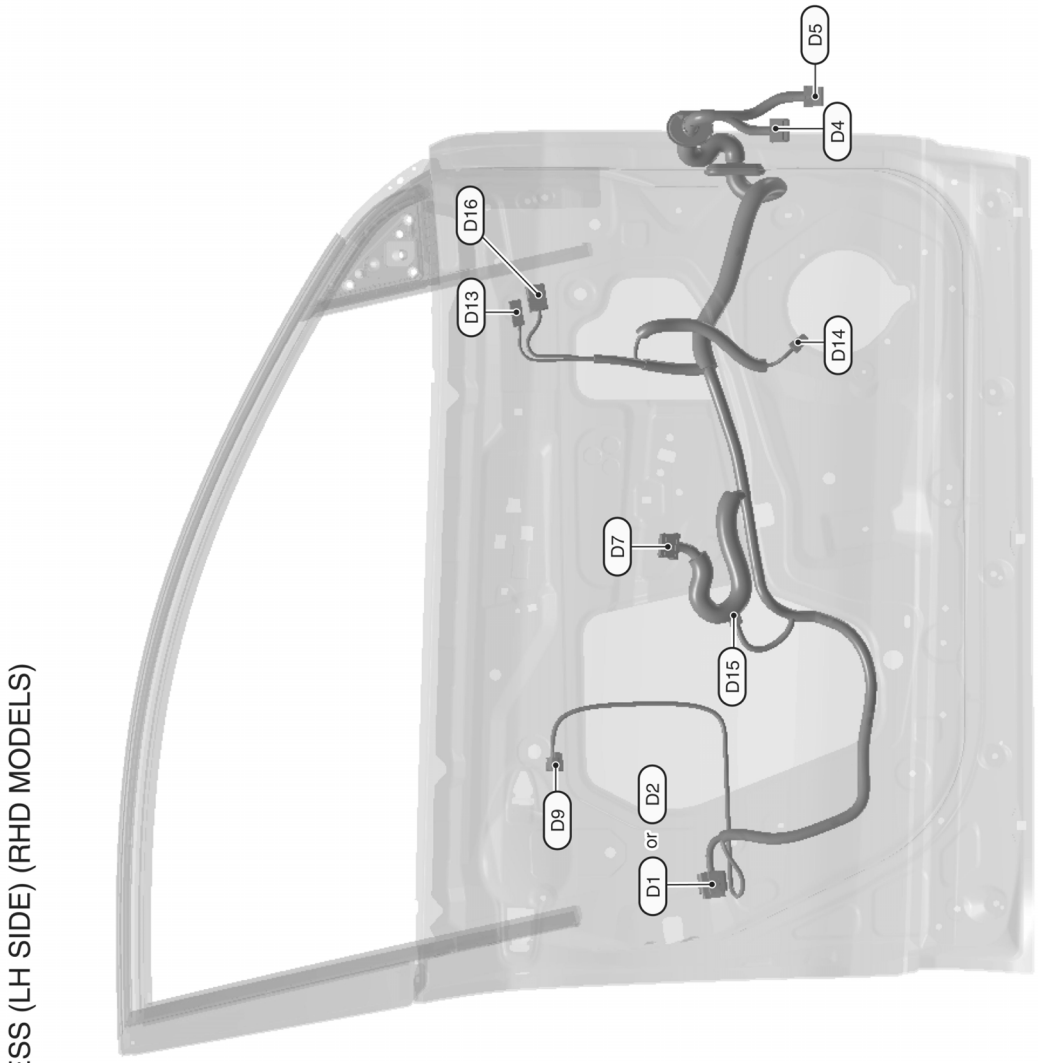



BODY No. 2 HARNESS (RHD MODELS)
★1 : With HT models
★2 : With TC models
B105
or
B120
B117
B115
B2
B52
★1
B30
B7
B5
B6
B10
B29
B40
B114
★2
B30
B42
B17
B46
B21
C1
B116
B9
B61
B22
B23
B60
B53
B49
B38
B43
B54
B27
B44
B45
B1
C2
B16
B59
B12
B39
B48
B56
B28
or
B51
B104
or
B113
B36
or
B57
B31
B32
B41
B25
B55
B47
B20
B15
B11
B50
B8
B4
B35
B3
B34
B37
B19
B18
B13
2014/10/01
JRMIC5468GB

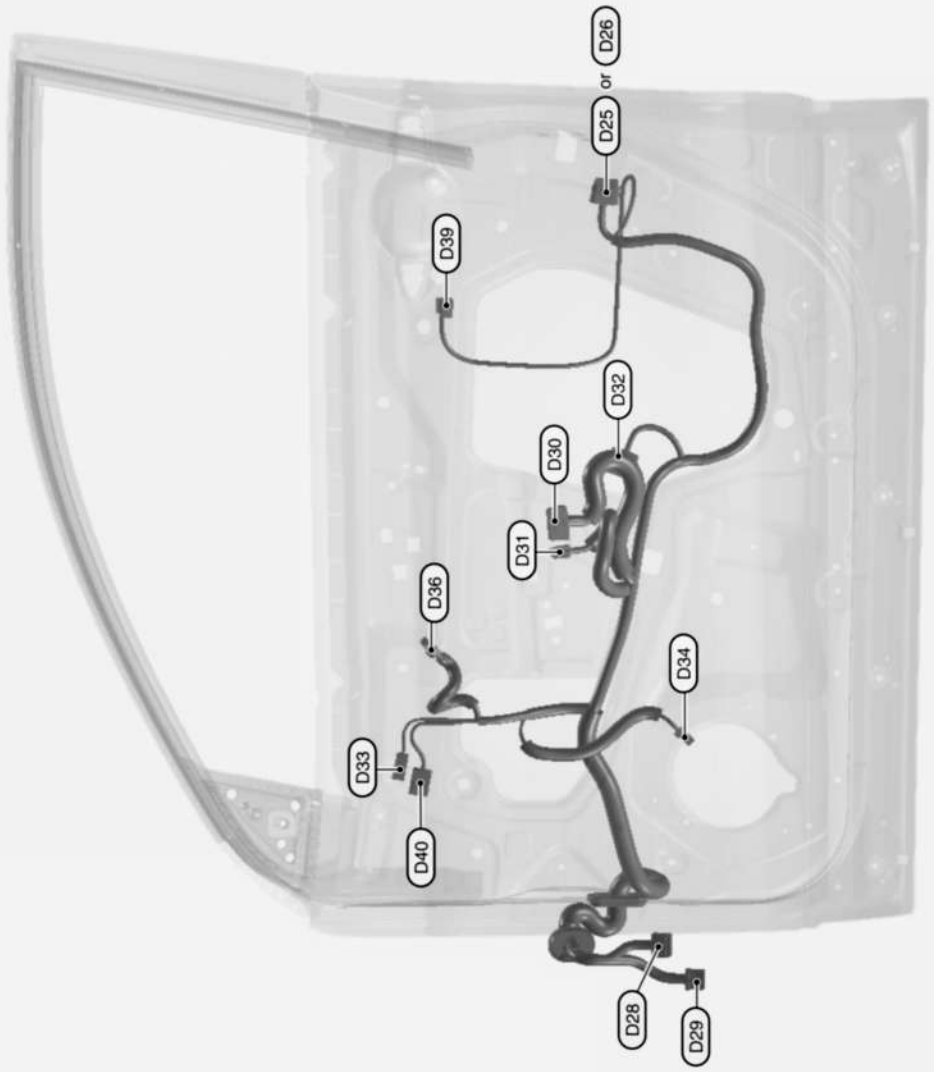
RHD : Door Harness

INFOID:0000000010464094

FRONT DOOR HARNESS (LH SIDE)



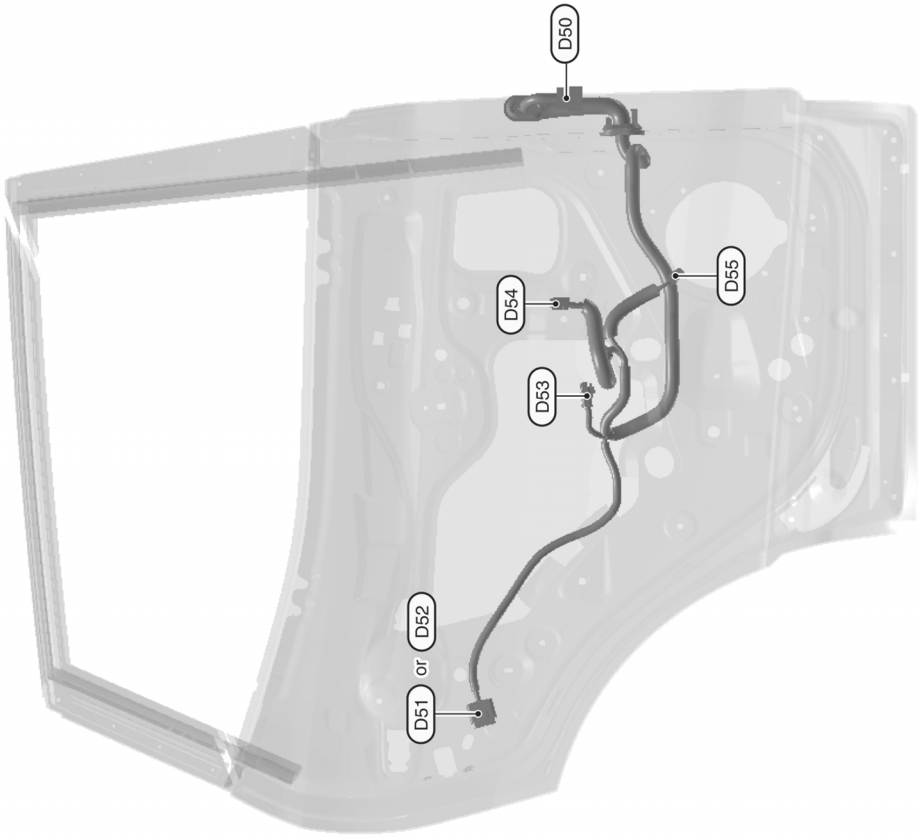
FRONT DOOR HARNESS (RH SIDE) (RHD MODELS)



2013/11/20

JRMIC4152GB

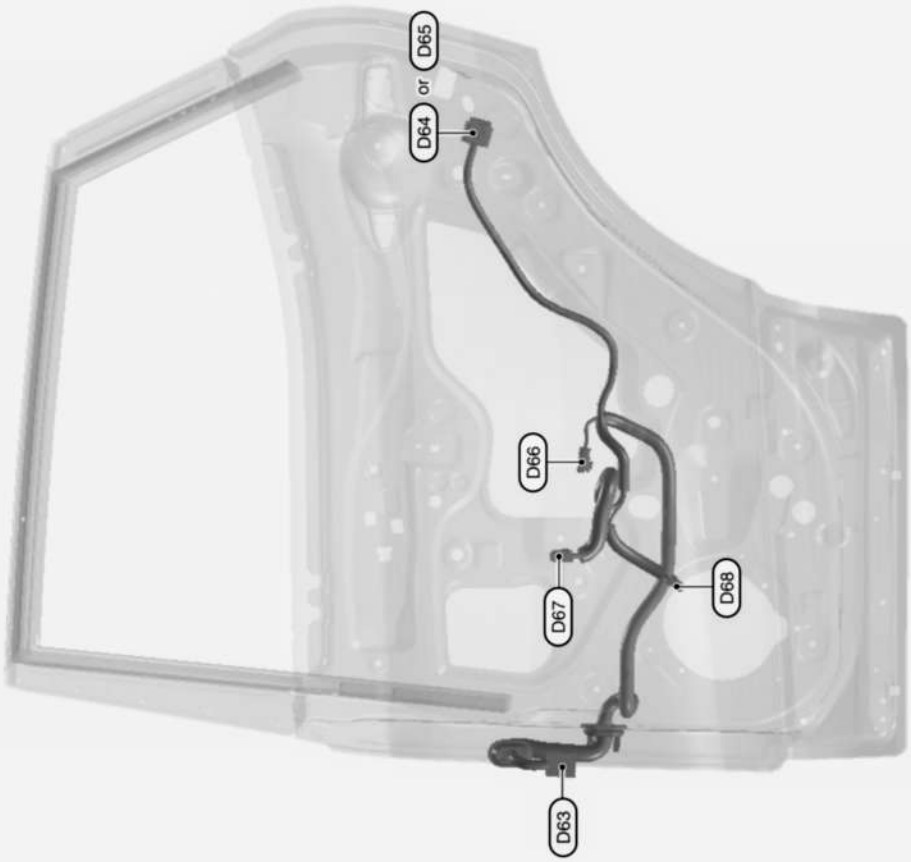
REAR DOOR HARNESS (LH SIDE) (RHD MODELS)



2013/11/20

JRMIC4153GB

REAR DOOR HARNESS (RH SIDE) (RHD MODELS)



2013/11/20

JRMIC4154GB

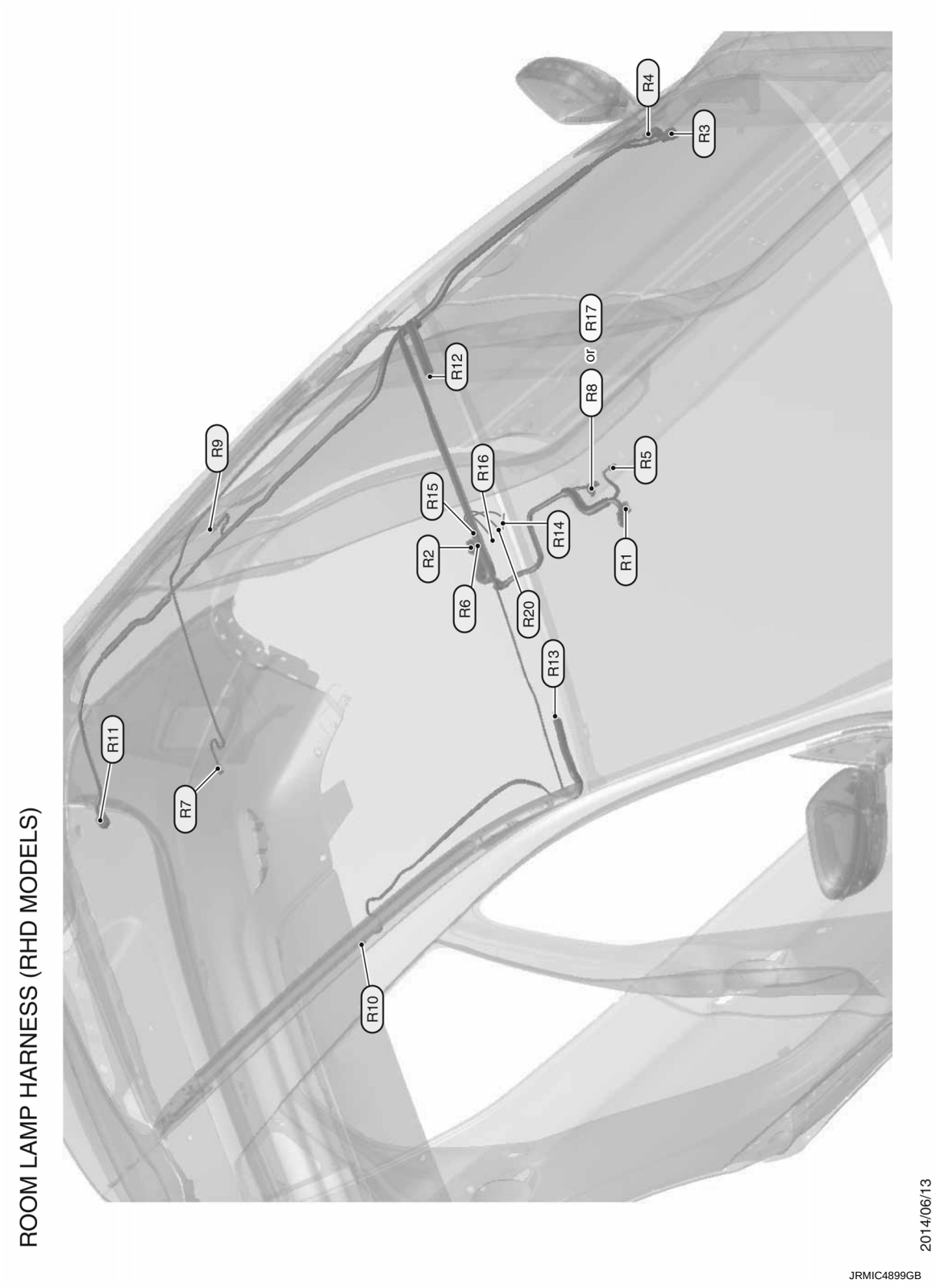
BACK DOOR HARNESS (RHD MODELS)




BACK DOOR No. 2 HARNESS (RHD MODELS)
D97
D96
D94
D95
2013/11/20
JRMIC4158GB

RHD : Room Lamp Harness

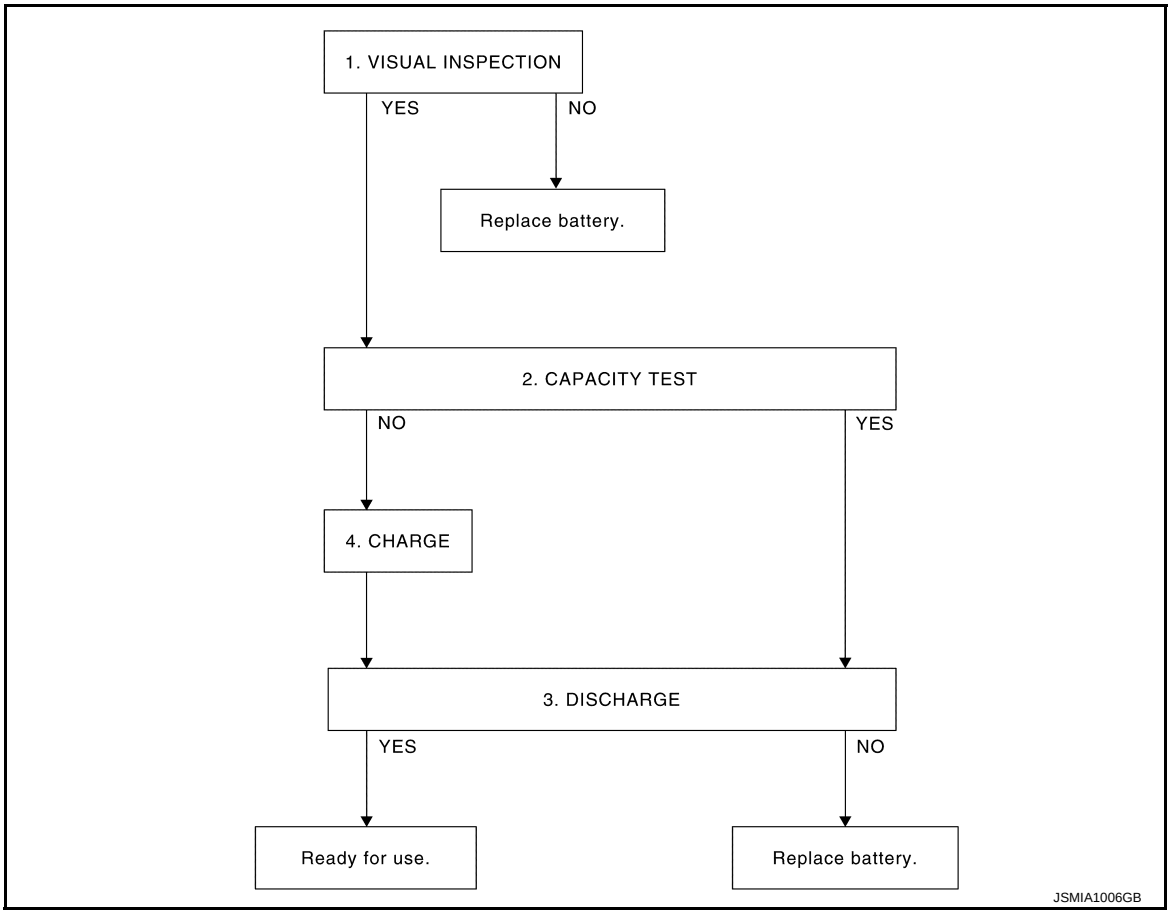
INFOID:0000000010464095



Work Flow WITHOUT STOP/START SYSTEM

INFOID:0000000010464099

OVERALL SEQUENCE



DETAILED FLOW

1.VISUAL INSPECTION

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

Are these inspection results normal?

YES >> GO TO 2.
NO >> Replace battery.

2.CAPACITY TEST

Check battery voltage.

Is the voltage 12.35 V or more?

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

3.DISCHARGE

1. Check battery type and determine the specified current using the table.

Type	Current (A)
55D23L-MF	300
80D23L-MF	

2. Perform discharge using the load tester.

Is the voltage 10 V or more?

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

4.CHARGE

Charge battery, following the instructions below:
- Constant current charging may damage batteries. Therefore, charge battery by constant voltage charge mode with the maximum voltage set at 15 V.
- Charge at least 6 hours or until the charge current becomes 4 amps or less.

>> GO TO 3.

Work Flow WITH STOP/START SYSTEM

INFOID:0000000011772993

DETAILED FLOW

1.VISUAL INSPECTION

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

Are these inspection results normal?

YES >> GO TO 2.
NO >> Replace battery.

2.CHECK BATTERY (USE CONSULT)

Check the battery, using CONSULT. Refer to ECH-316, "Diagnosis Procedure" (HRA2DDT), ECK-394, "Diagnosis Procedure" (K9K), or EC9-405, "Diagnosis Procedure" (R9M).

Is the check result normal?

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

3.CAPACITY TEST

Check battery voltage.

Is the voltage 12.35 V or more?

YES >> GO TO 4.
NO >> GO TO 5.

4.DISCHARGE

1. Check battery type and determine the specified current using the table.

Type	Current (A)
L2	300
L3	300

2. Perform discharge using the load tester.

Is the voltage 10 V or more?

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

5.CHARGE

Charge battery, following the instructions below:
- Constant current charging may damage batteries. Therefore, charge battery by constant voltage charge mode with the maximum voltage set at 15 V.
- Charge at least 6 hours or until the charge current becomes 4 amps or less.

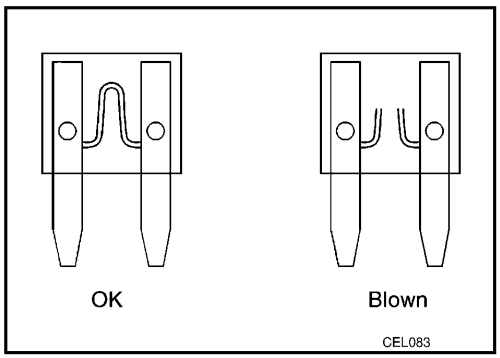
>> GO TO 4.

FUSE INSPECTION

How To Check

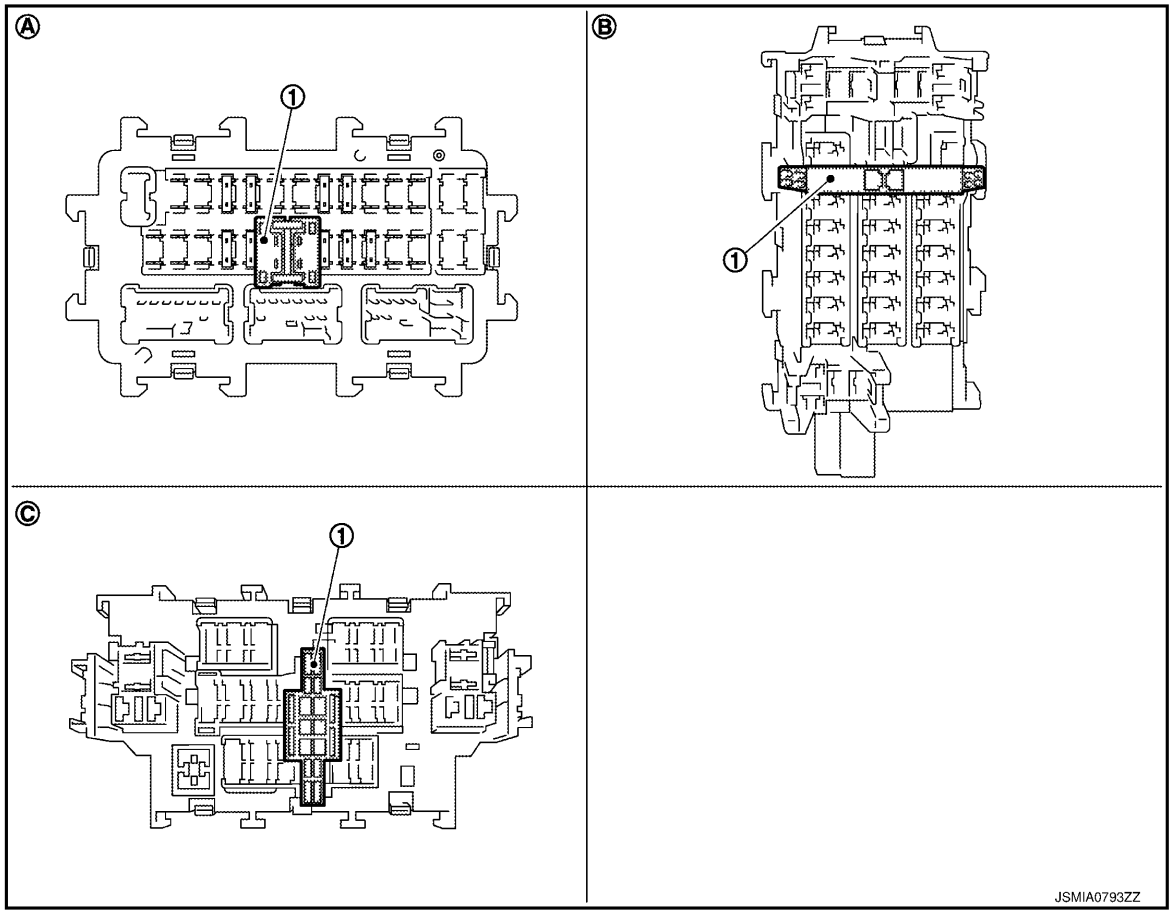
INFOID 0000000010464100

- 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

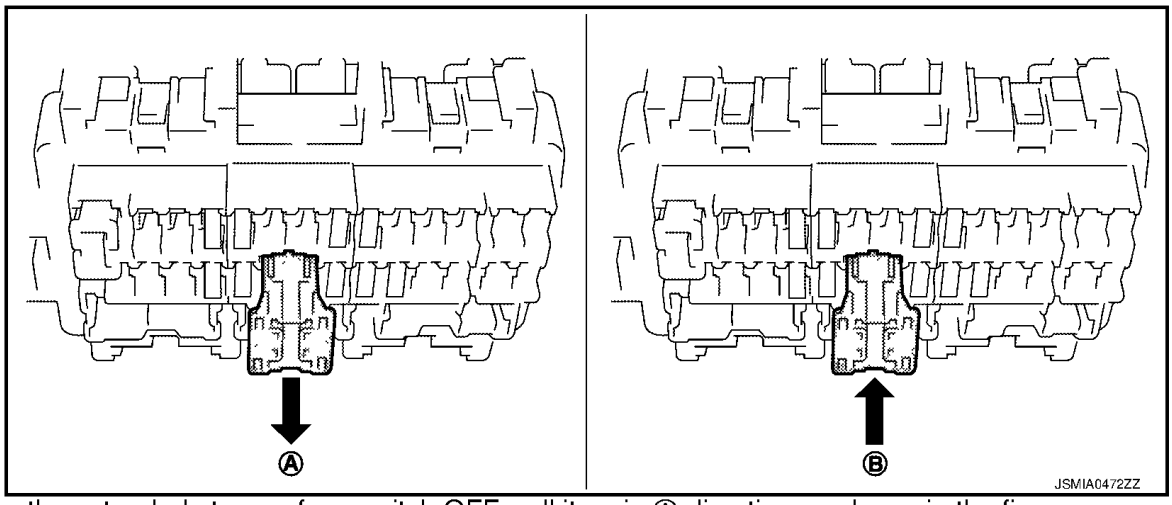
- Remove the extended storage fuse switch when replacing the fuse of extended storage fuse switch.
- Remove the extended storage fuse switch if it causes the interference when the fuse or the other fuses is checked.

How To Extended Storage Fuse Switch ON/OFF

CAUTION:

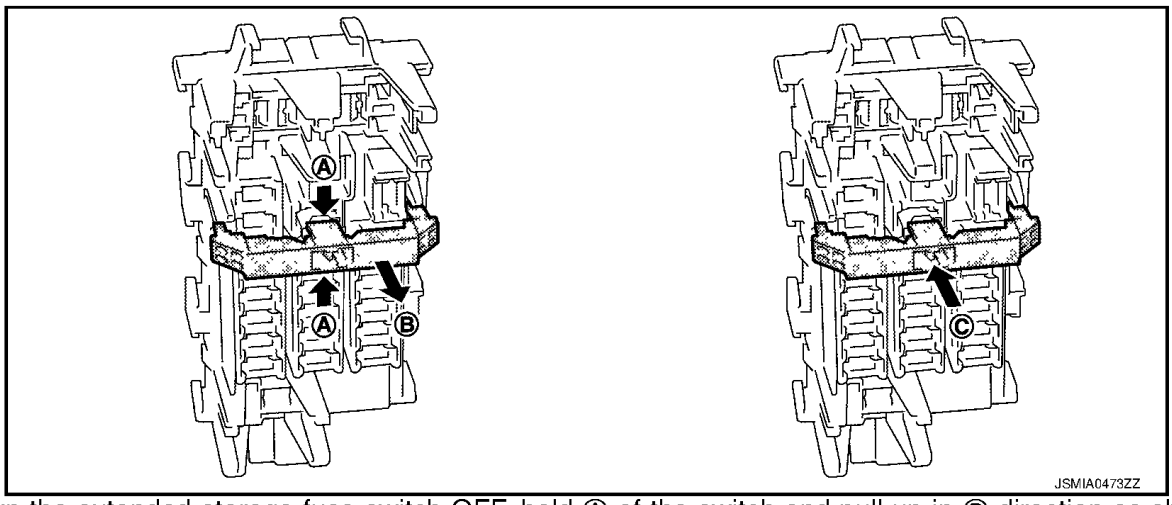
- **Turn the ignition switch OFF when operating the extended storage fuse switch.**
- **Under normal conditions, keep the extended storage fuse switch in ON state. Never operate the extended storage fuse switch except when necessary.**

• Type A



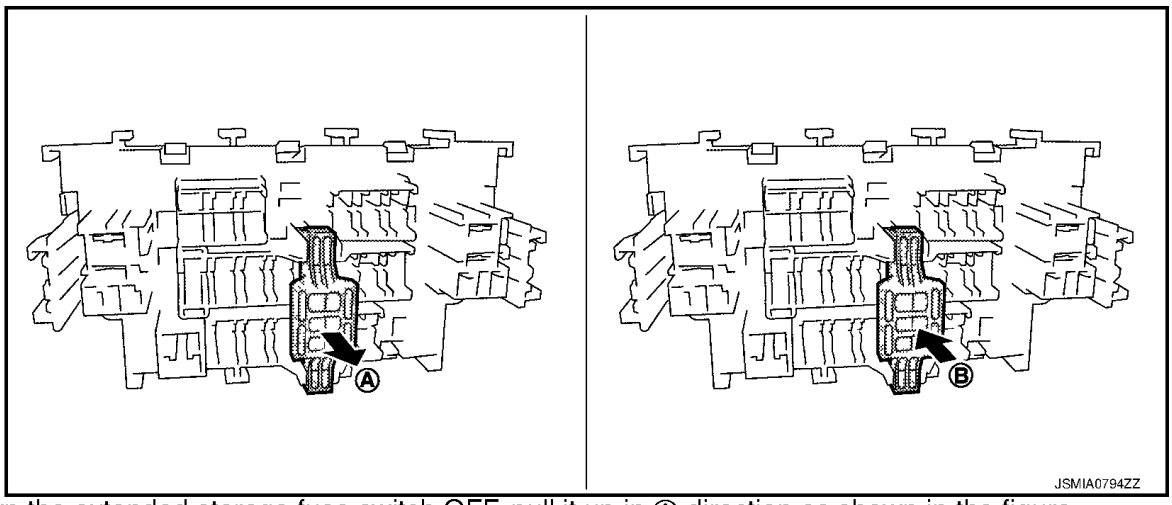
- To turn the extended storage fuse switch OFF, pull it up in Ⓐ direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in Ⓑ direction as shown in the figure.

• 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

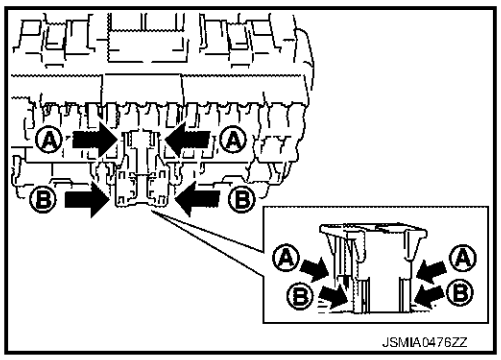


- To turn the extended storage fuse switch OFF, pull it up in Ⓐ direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in Ⓑ direction as shown in the figure.

How To Remove Extended Storage Fuse Switch

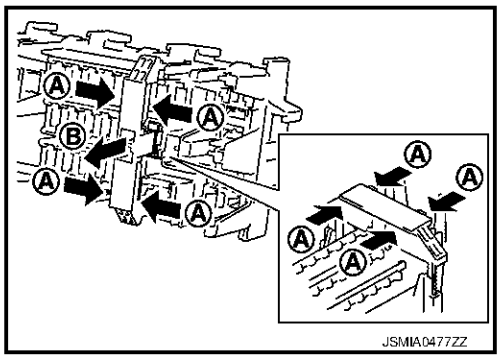
Type A

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.



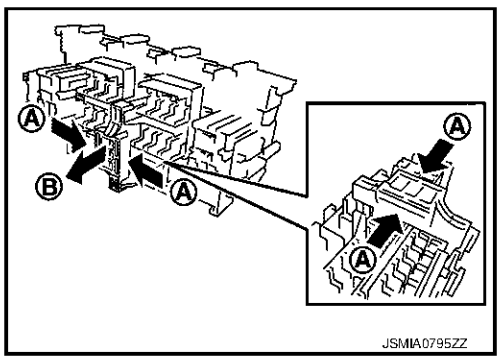
NOTE:
- Extended storage fuse switch and fuse are removed together. Remove fuse from extended storage fuse switch, if necessary.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

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



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

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



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

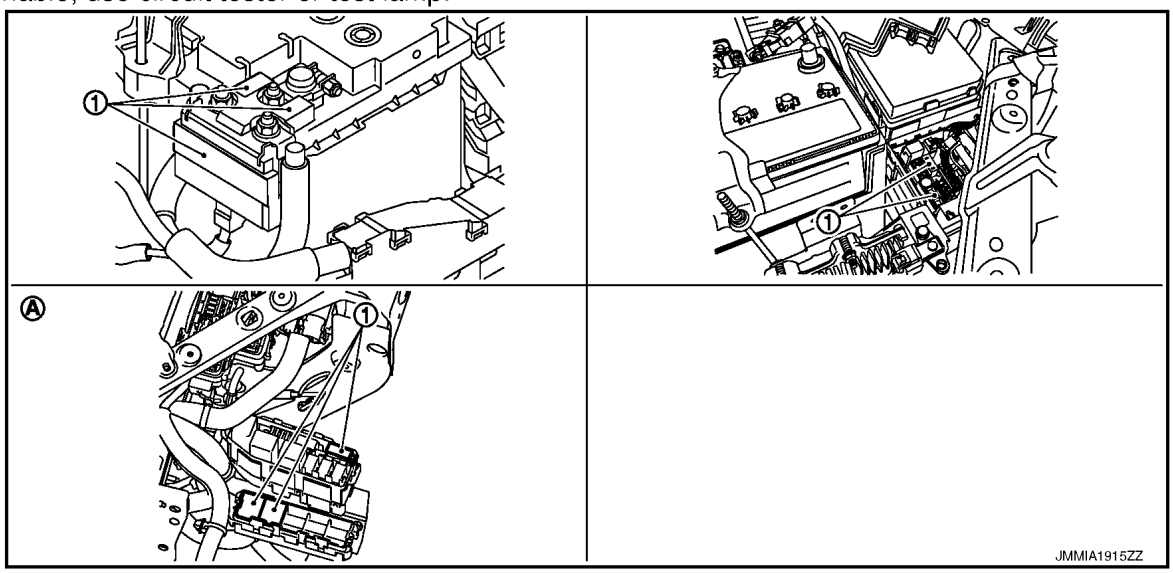
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

FUSIBLE LINK INSPECTION

How To Check

INFOID 0000000010464101

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



1 :Fusible link

CAUTION:

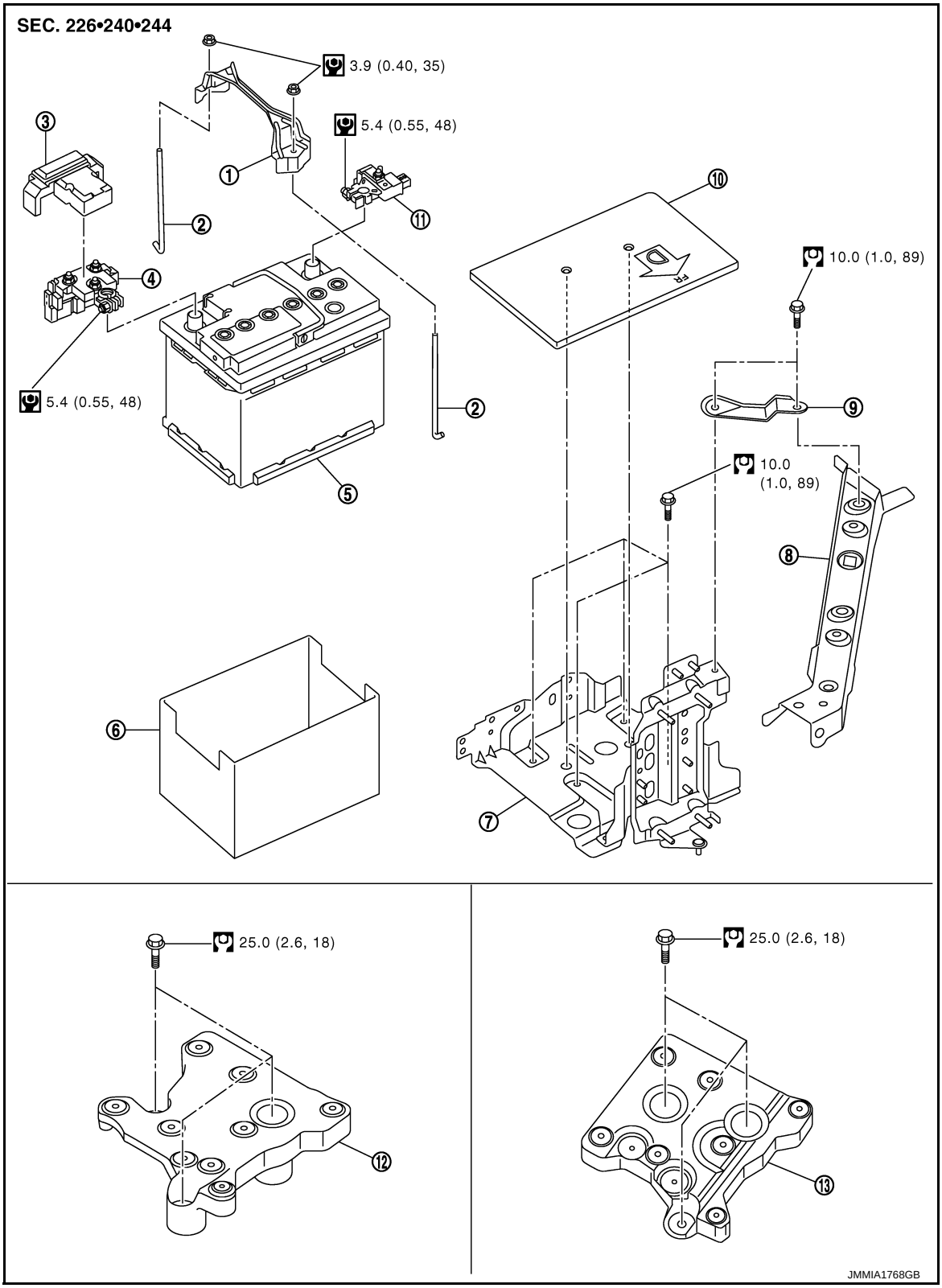
- **If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.**
- **Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any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

REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:0000000010464105



① Battery fix frame
② Battery fix rod
③ Cover
④ Battery terminal with fusible link
⑤ Battery
⑥ Battery cover

⑦ Battery mounting bracket assembly ⑧ Radiator core support LH ⑨ Battery bracket
⑩ Battery tray ⑪ Battery current sensor ⑫ Battery mounting bracket (if equipped)
⑬ Battery mounting bracket (if equipped)

: N·m (kg-m, ft-lb)

: N·m (Kg-m, ft-lb)

Removal and Installation

INFOID:0000000010464106

REMOVAL

CAUTION:

After the battery of a vehicle equipped with the Stop/Start System is replaced, the cumulative battery discharge current value stored in IPDM E/R must be erased, using CONSULT. Refer to PCS-60, "Work Procedure" (With Stop/Start System).

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.
6. Remove tray.
7. Remove battery mounting bracket assembly mounting bolts, and then remove battery mounting bracket assembly.
8. Remove battery mounting bracket mounting bolts, and then remove battery mounting bracket. (if equipped)

INSTALLATION

Note the following items, and then 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.**

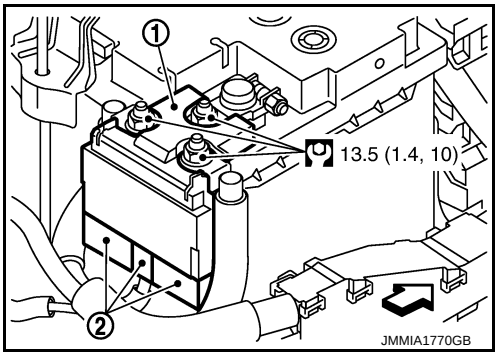
Reset electronic systems as necessary. Refer to GI-63, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection".

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:0000000010464107

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



Removal and Installation

INFOID:0000000010464108

REMOVAL

1. Disconnect the battery cable from the negative terminal. Refer to PG-154, "Exploded View".
   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 battery cable from the positive terminal. Refer to PG-154, "Exploded View".
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

Note the following items, and then 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

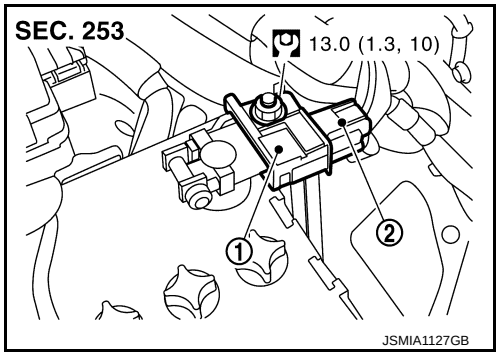
Exploded View

INFOID:0000000010464109

① : Battery current sensor
(With battery temperature sensor)

② : Harness connector

: N·m (kg-m, ft-lb)



Removal and Installation

INFOID:0000000010464110

REMOVAL

1. Disconnect battery cable from the negative terminal. Refer to PG-154, "Exploded View".
2. Disconnect battery current sensor connector.
3. Remove battery current sensor mounting nut.
4. Remove 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:0000000010464111

Type		L2	L3
20 hour rate capacity	[V – Ah]	12 – 60	12 – 70
Cold cranking current (For reference value)	[A]	510	720