

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

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

INFOID:000000009749984

The Supplemental Restraint System such as "AIR BAG" and "SEAT BELT PRE-TENSIONER", used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the SR and SB section of this Service Manual.

WARNING:

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

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

WARNING:

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

Precautions for Removing of Battery Terminal

INFOID:0000000010304169

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.

NOTE:

ECU may be active for several tens of seconds after the ignition switch is turned OFF. If the battery terminal is removed before ECU stops, then a DTC detection error or ECU data corruption may occur.

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the ignition switch.

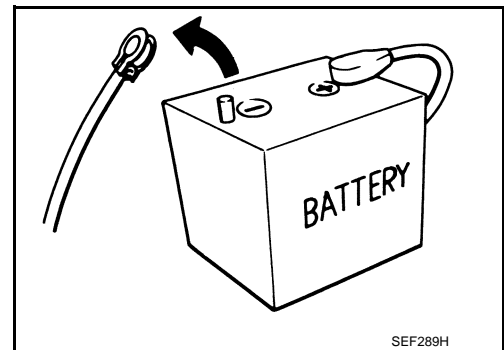
NOTE:

If the ignition switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

NOTE:

The removal of 12V battery may cause a DTC detection error.



PREPARATION

< PREPARATION >

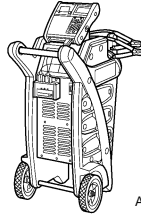
PREPARATION

PREPARATION

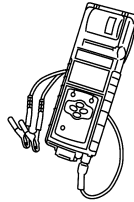
Special Service Tools

INFOID:000000009749985

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



AW1IA1239ZZ



JSMA0806ZZ

COMPONENT PARTS

< SYSTEM DESCRIPTION >

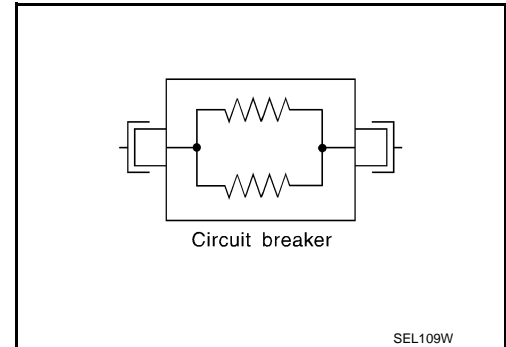
SYSTEM DESCRIPTION

COMPONENT PARTS

Circuit Breaker

INFOID:000000009749986

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



Battery

INFOID:000000009749987

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

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

Harness Connector

INFOID:000000009749988

HARNESS CONNECTOR (TAB-LOCKING TYPE)

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

CAUTION:

Never pull the harness or wires when disconnecting the connector.

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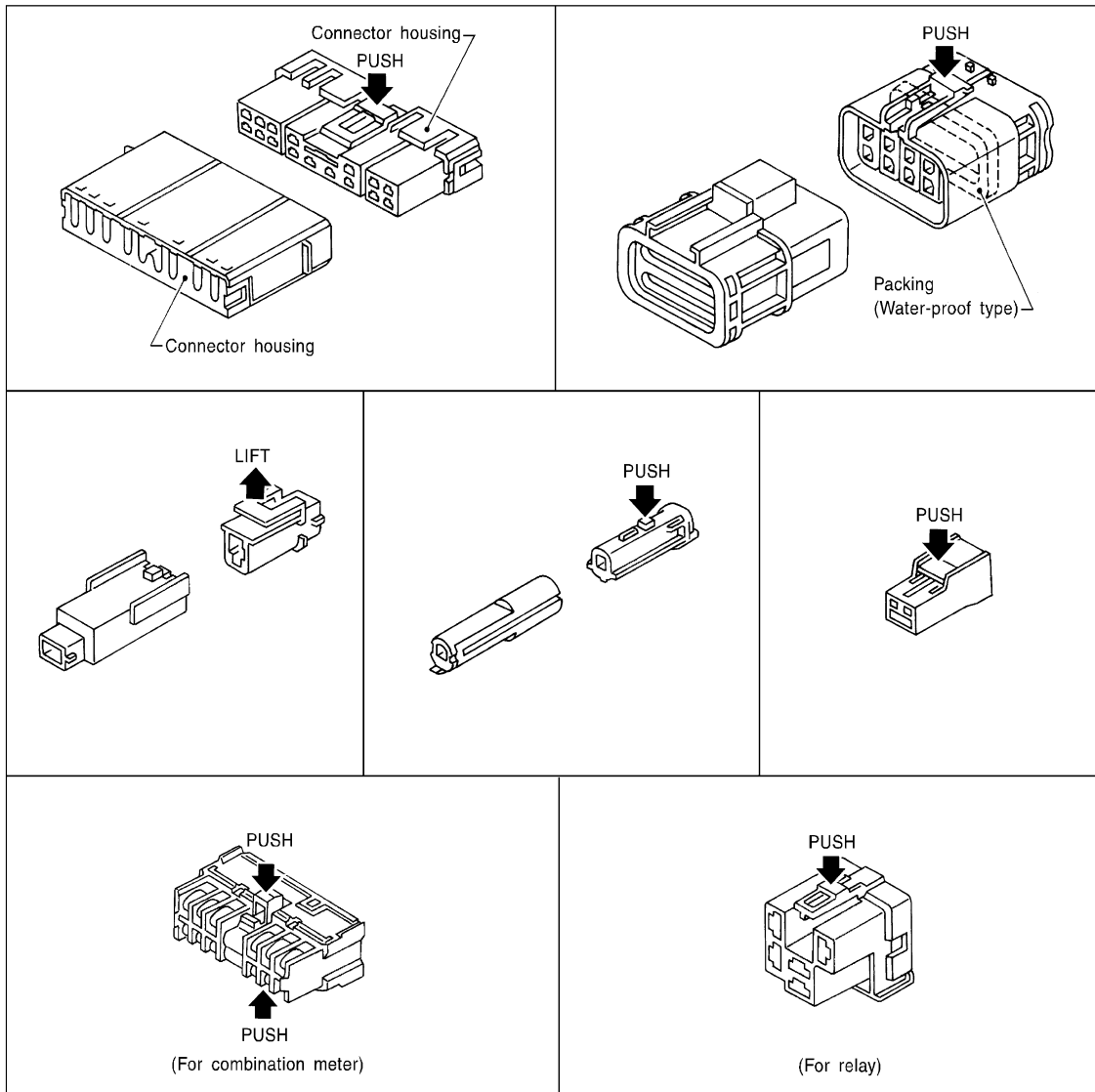
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[Example]



SEL769DA

HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

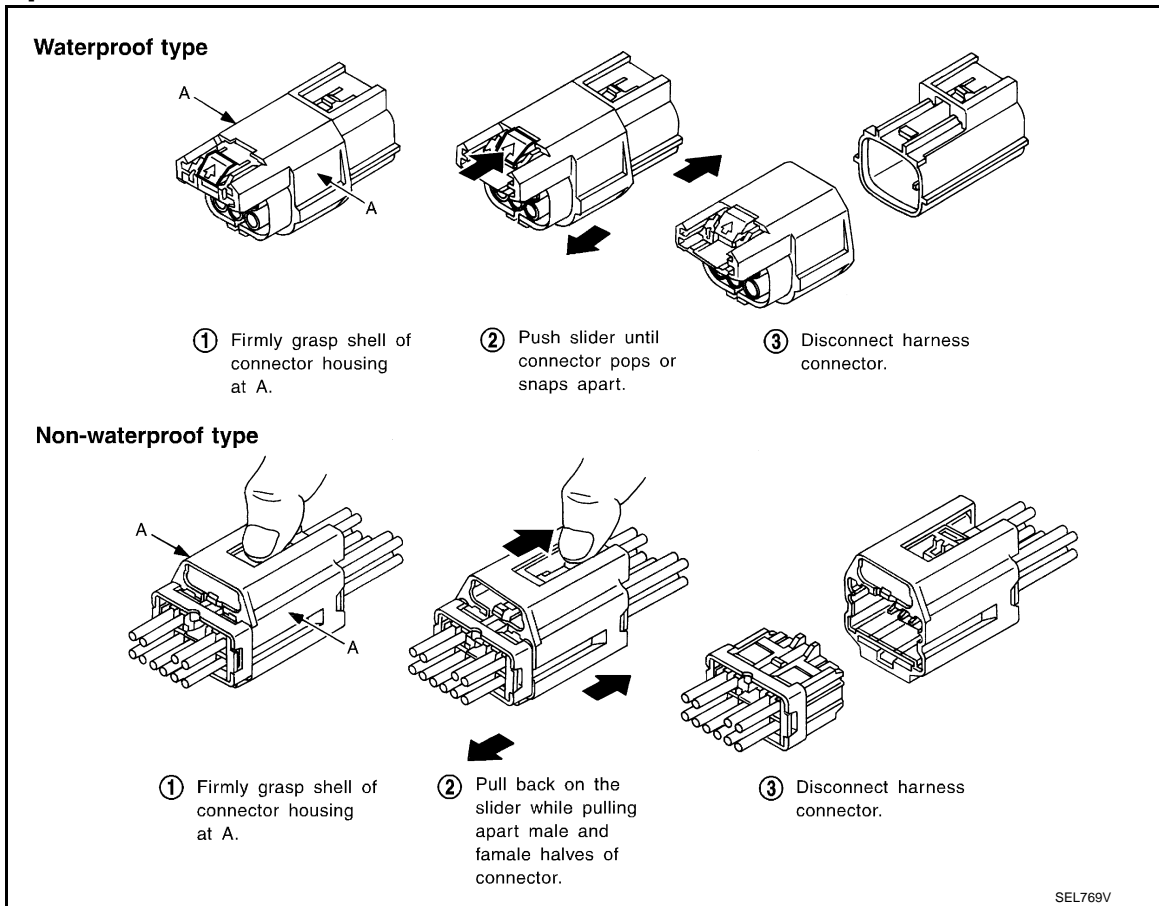
CAUTION:

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

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[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:

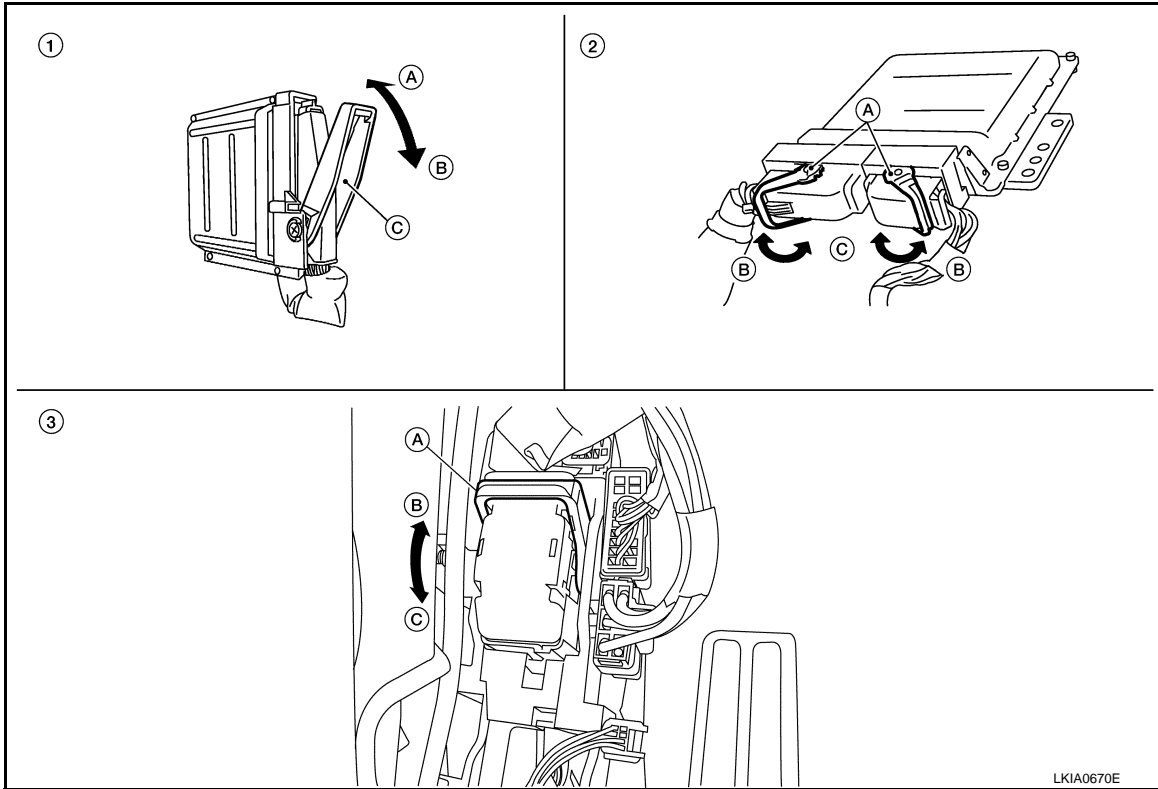
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

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.



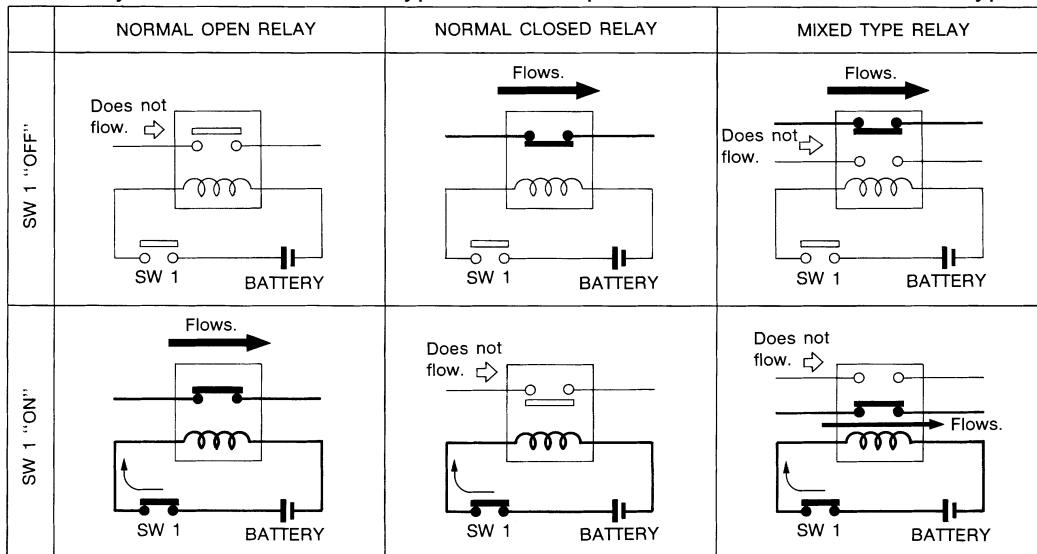
- | | | |
|-----------------------------------|----------------------------------|------------------|
| 1. Control unit with single lever | 2. Control unit with dual levers | 3. SMJ connector |
| A. Fasten | A. Levers | A. Lever |
| B. Loosen | B. Fasten | B. Fasten |
| C. Lever | C. Loosen | C. Loosen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

Standardized Relay

INFOID:000000009749989

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



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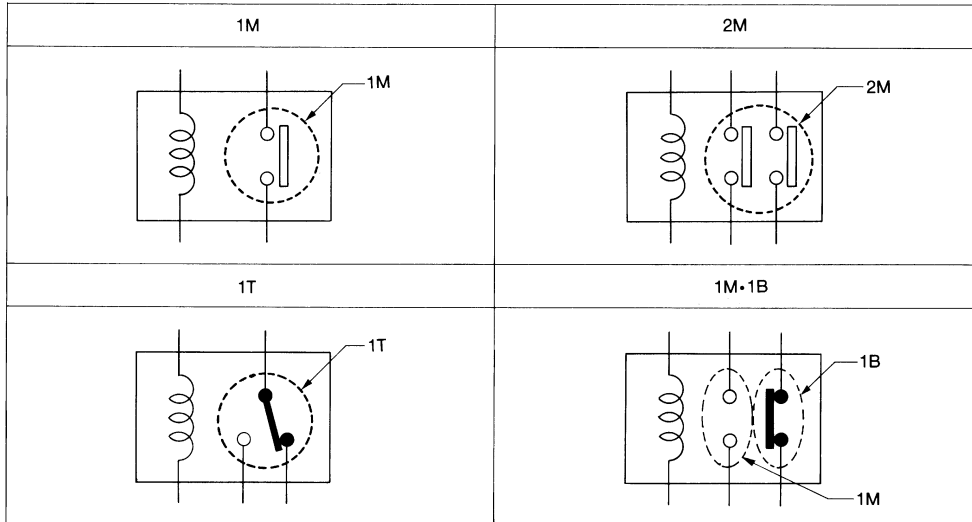
TYPE OF STANDARDIZED RELAYS

COMPONENT PARTS

< SYSTEM DESCRIPTION >

1M 1 Make
 1T 1 Transfer

2M 2 Make
 1M-1B 1 Make 1 Break



SEL882H

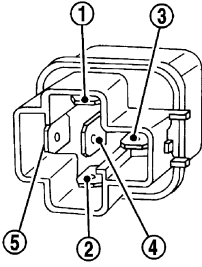
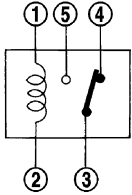
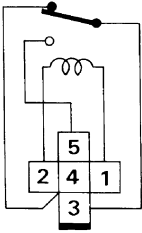
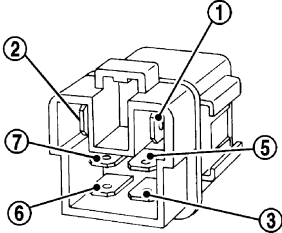
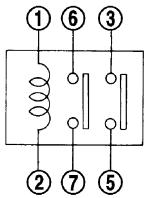
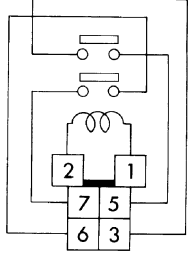
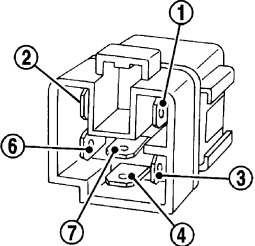
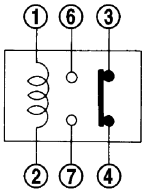
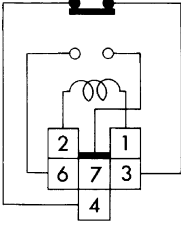
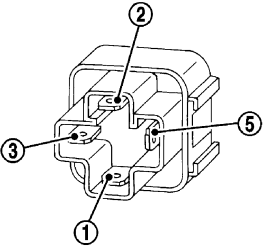
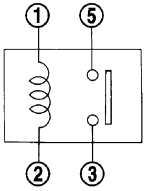
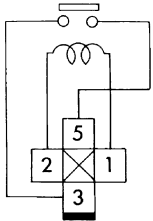
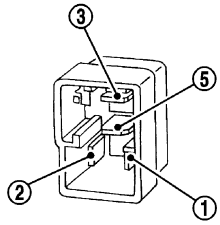
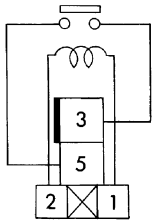
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

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.

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POWER SUPPLY ROUTING CIRCUIT

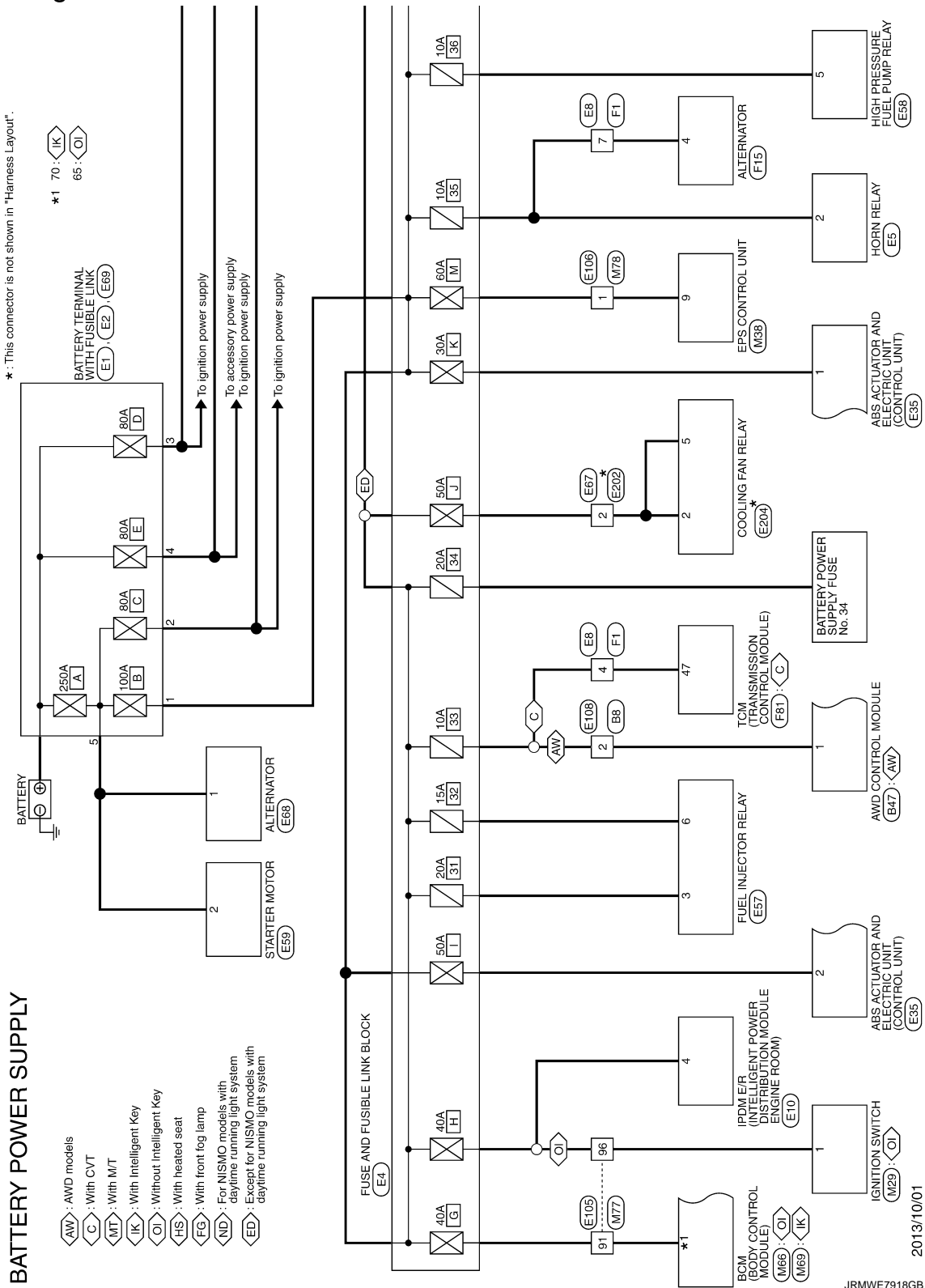
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WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

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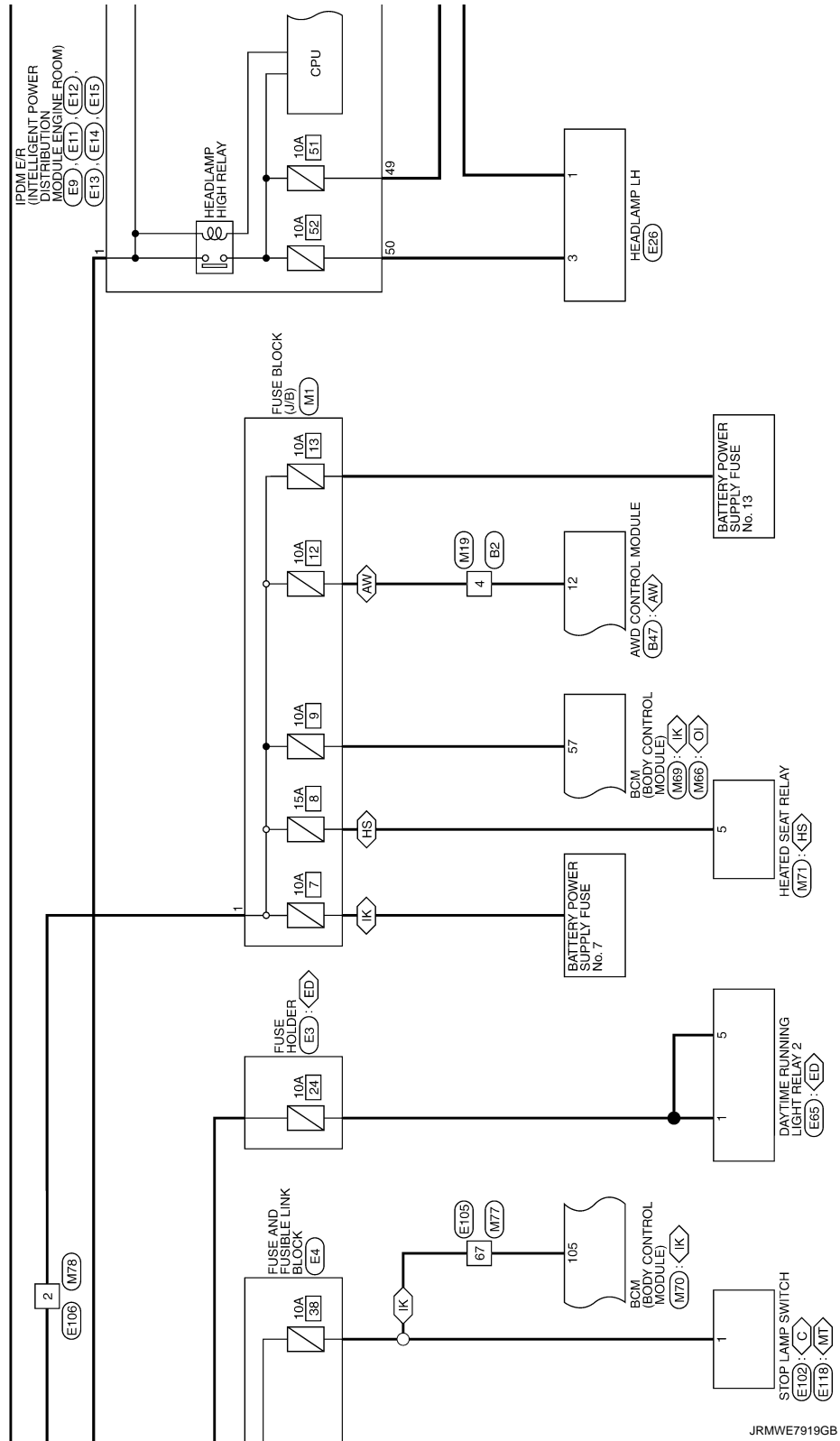


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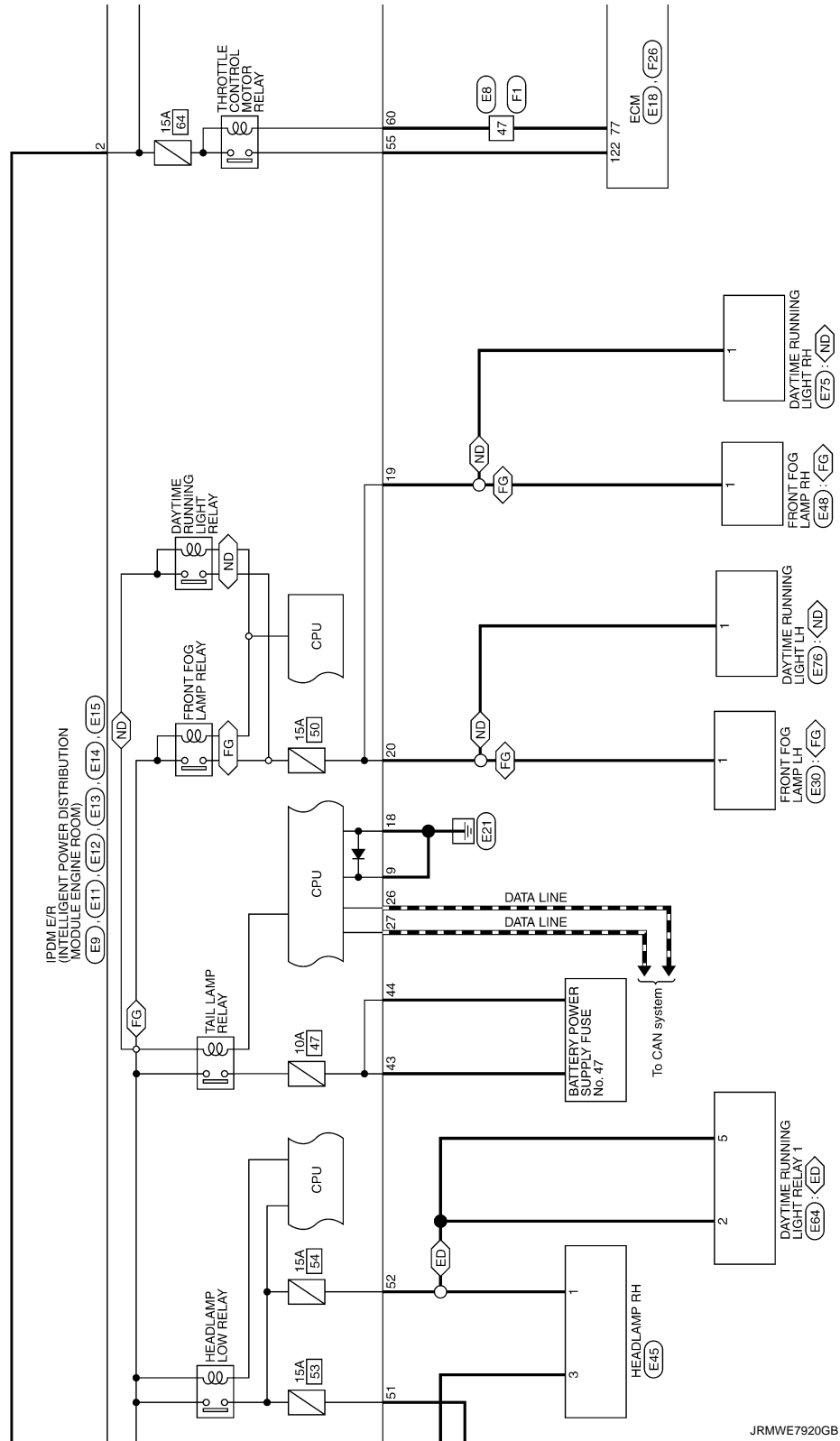
POWER SUPPLY ROUTING CIRCUIT

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POWER SUPPLY ROUTING CIRCUIT

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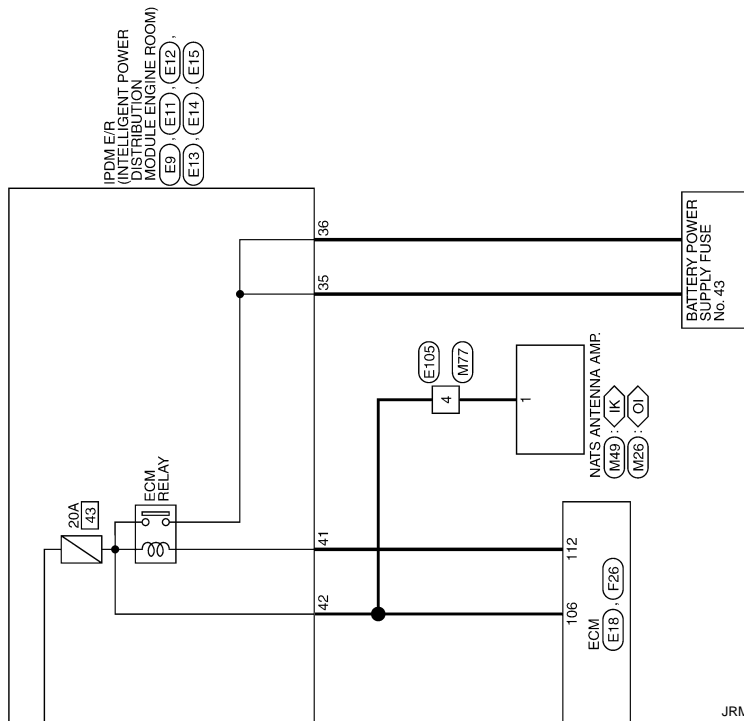


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POWER SUPPLY ROUTING CIRCUIT

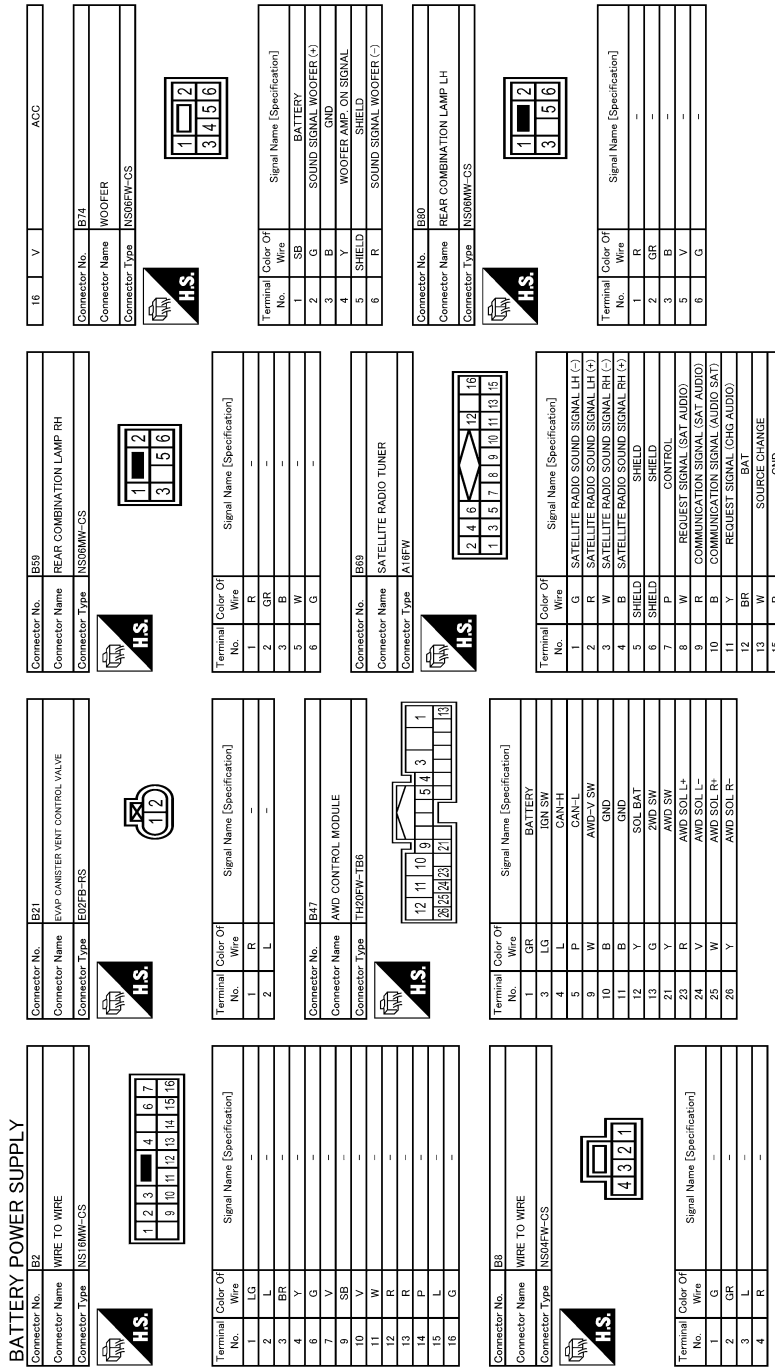
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POWER SUPPLY ROUTING CIRCUIT

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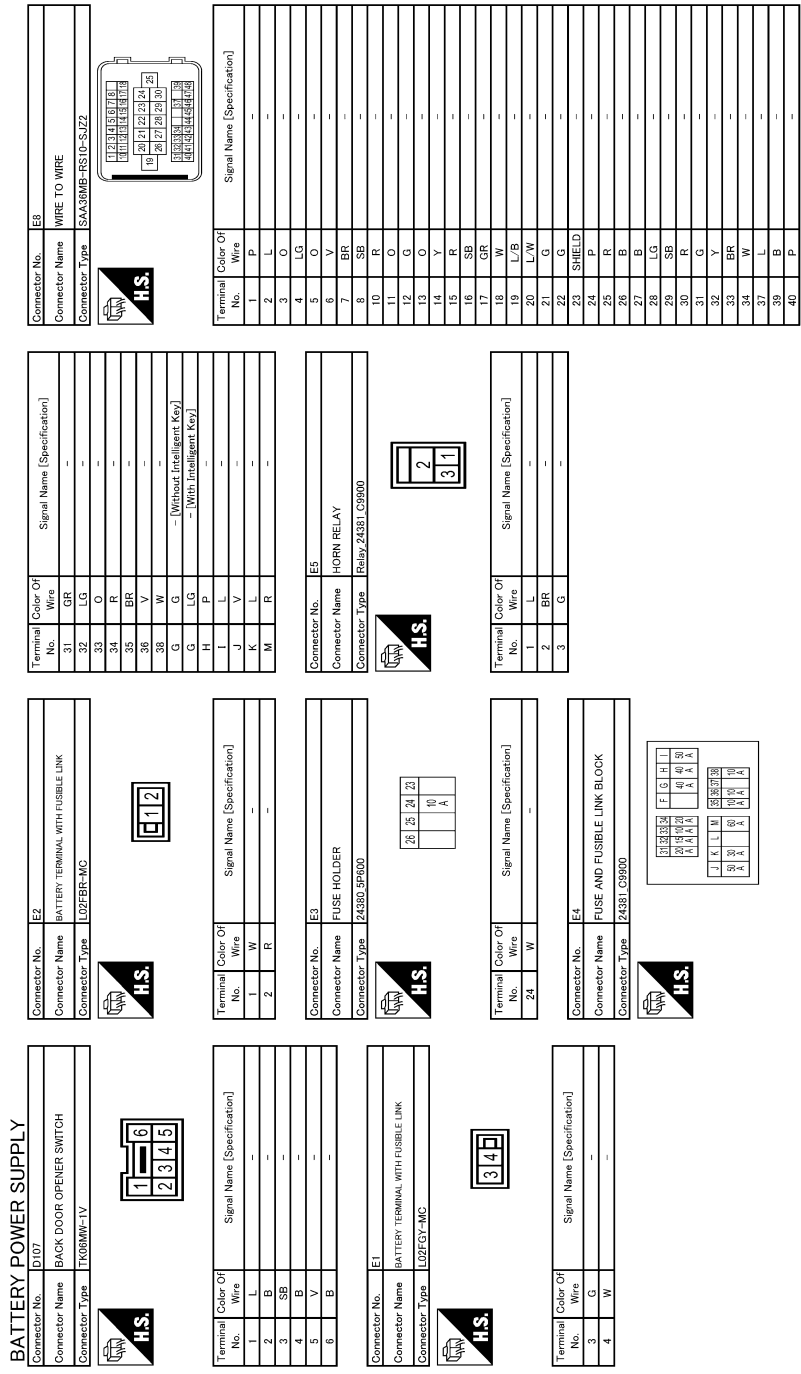


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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY

41	V	-
42	L	-
43	BR	-
44	G	-
45	GR	-
46	Y	-
47	SB	-
48	LG	-

Connector No.	E9
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	L02FB-MC



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

Connector No.	E10
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	M06FN-LC



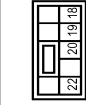
Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	-
4	P	-
6	GR	-

Connector No.	E11
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	M08FB-LC



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

Connector No.	E12
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS08FBR-CS



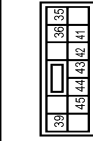
Terminal No.	Color Of Wire	Signal Name [Specification]
18	B/Y	-
19	R	- [Without front fog lamp] - [With front fog lamp]
20	G	- [Without front fog lamp] - [With front fog lamp]
22	G	-

Connector No.	E13
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH12FW-NH



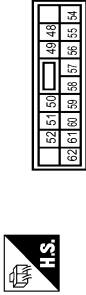
Terminal No.	Color Of Wire	Signal Name [Specification]
23	SB	-
25	BR	-
26	P	-
27	L	-
28	Y	-
30	V	-
31	Y	-
33	G	-
34	L	-

Connector No.	E14
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS12FBR-CS



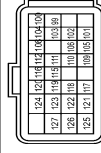
Terminal No.	Color Of Wire	Signal Name [Specification]
35	G	-
36	P	-
39	L	-
41	BR	-
42	Y	-
43	L	-
44	R	-
45	W	-

Connector No.	E15
Connector Name	POWER IN INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS16FTV-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
48	BR	-
49	Y	-
50	G	-
51	L	-
52	P	-
54	P	-
55	G	-
56	SB	-
57	O	-
58	LG	-
59	V	-
60	SB	-
61	LG	-
62	O	-

Connector No.	E18
Connector Name	ECM
Connector Type	FR24FCY-R25-R-RH



Terminal No.	Color Of Wire	Signal Name [Specification]
99	P	CAN COMMUNICATION LINE (CAN-L)
100	L	CAN COMMUNICATION LINE (CAN-H)
101	V	SENSOR POWER SUPPLY
102	R	ACCELERATOR PEDAL POSITION SENSOR 1
103	BR	PNP SIGNAL
104	R	DATA LINK CONNECTOR

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY

105	GR	SENSOR PEDAL POSITION SENSOR 1 (SENSOR 1)
106	GR	POWER SUPPLY FOR ECM (BACKUP)
108	GR	CLUTCH PEDAL INTERLOCK SWITCH
110	B	RETRON SWITCH
111	B	ASCS STEERING SWITCH
112	BR	SENSOR GROUND
115	SB	ECM RELAY (SELF SWAIT-OFF)
116	G	STOP LAMP SWITCH
117	Y	BRAKE PEDAL POSITION SWITCH
118	O	FUEL PUMP RELAY
119	BR	SENSOR POWER SUPPLY
120	Y	ACCELERATOR PEDAL POSITION SENSOR 2
121	G	SENSOR GROUND
122	GR	POWER SUPPLY FOR ECM
123	B/Y	THROTTLE CONTROL MOTOR POWER SUPPLY
124	B/Y	ECM GROUND
125	L	ECM GROUND
126	W	A/F SENSOR 1 HEATER
127	B/Y	HEATED OXYGEN SENSOR 2 HEATER
		ECM GROUND

Connector No.	E24
Connector Name	PARKING LAMP LH
Connector Type	T02FB



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

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR



Terminal No.	1	R	3	GR
Color Of Wire				
Signal Name [Specification]				

Connector No.	E26
Connector Name	HEADLAMP LH
Connector Type	LU03FB



Terminal No.	1	L	2	B/R	3	G
Color Of Wire						
Signal Name [Specification]						

Connector No.	E29
Connector Name	CLUTCH INTERLOCK SWITCH
Connector Type	MC4FF-LC



Terminal No.	3	4	BR
Color Of Wire			
Signal Name [Specification]			

Connector No.	E30
Connector Name	FRONT FOG LAMP LH
Connector Type	FH20FEB



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

Connector No.	E31
Connector Name	FRONT SIDE MARKER LAMP LH
Connector Type	T02FB



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

Connector No.	E32
Connector Name	FRONT SIDE MARKER LAMP RH
Connector Type	T02FB

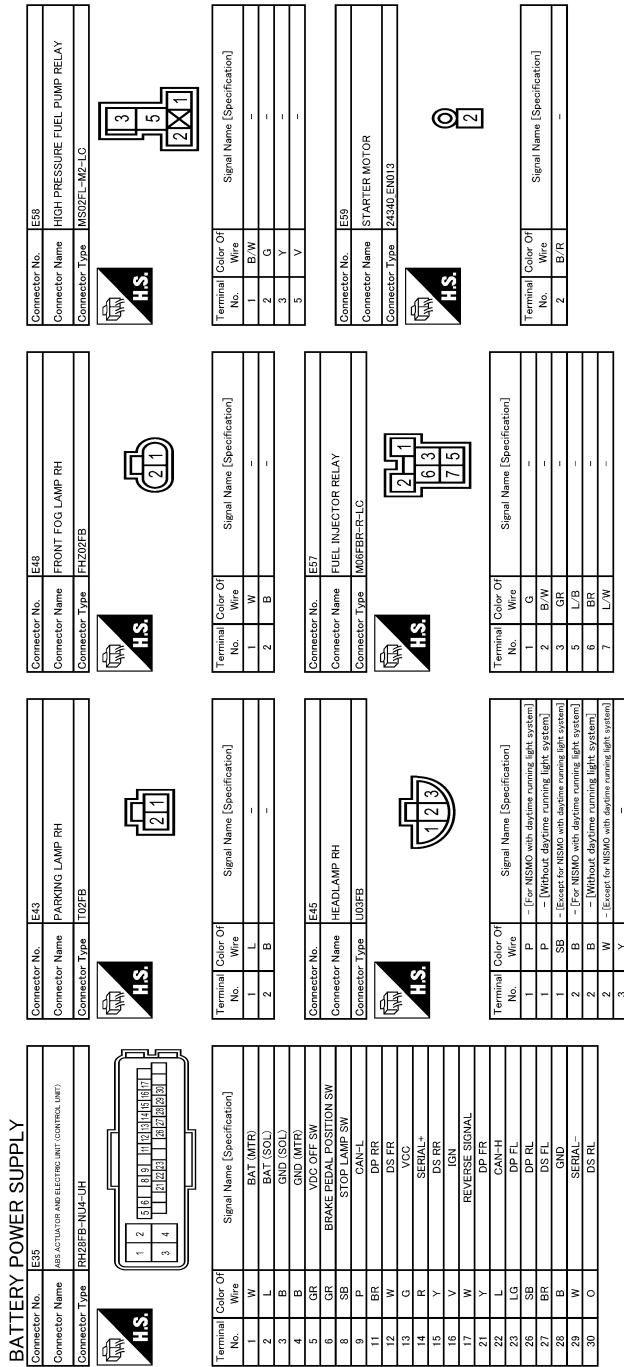


Terminal No.	1	L	2	B
Color Of Wire				
Signal Name [Specification]				

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

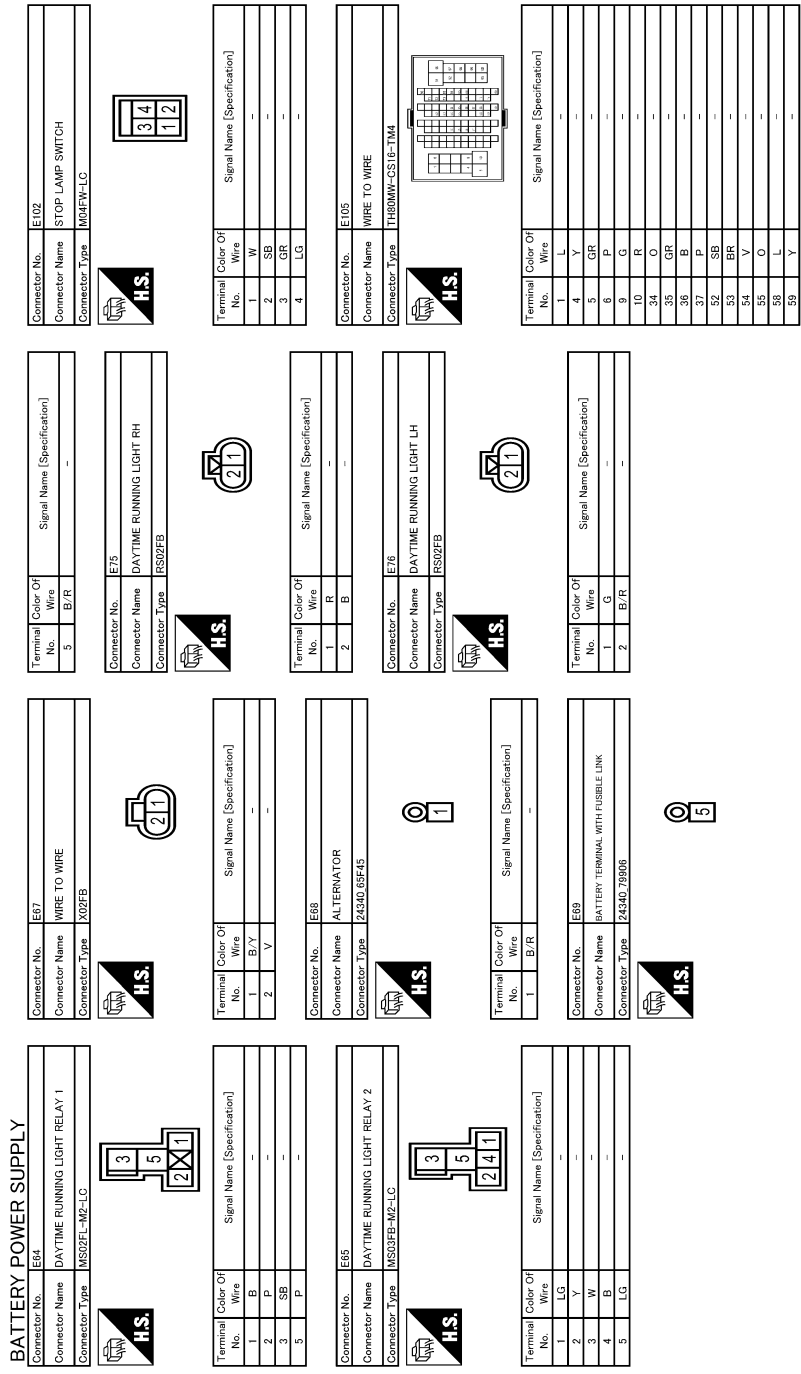


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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



JRMWE7927GB



POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY



84	LG	-
85	GR	-
86	R	-
87	W	-
88	SB	-
89	B	-
90	LG	-
91	Y	-
92	W	-
93	L	-
94	R	-
95	B	-
96	P	-
97	GR	-
98	W	-
99	V	-
100	O	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC



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

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	NS34MM-CS



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

Connector No.	E118
Connector Name	STOP LAMP SWITCH
Connector Type	M02FB-LC



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

Connector No.	E202
Connector Name	WIRE TO WIRE
Connector Type	X02MB



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

Connector No.	E204
Connector Name	COOLING FAN RELAY
Connector Type	Z4547 9F500

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R/Y	-
2	V	-
3	R/W	-
5	V	-

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA30FB-RS10-SJ22

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	L	-
3	Y	-
4	BG	-
5	LG	-
6	SB	-
7	G	-
8	R	-
10	BR	-
11	Y	-
12	G	-
13	BG	-
14	L	-
15	BR	-
16	P	-
17	SB	-
18	G	-
19	G	-
20	BR	-
21	G	-
22	BR	-
23	SHIELD	-
24	R	-
25	R	-
26	B	-
27	B	-
28	R	-
29	W	-
30	R	-
31	BG	-
32	LG	-
33	BR	-
34	G	-
37	G	-
39	B	-
40	P	-

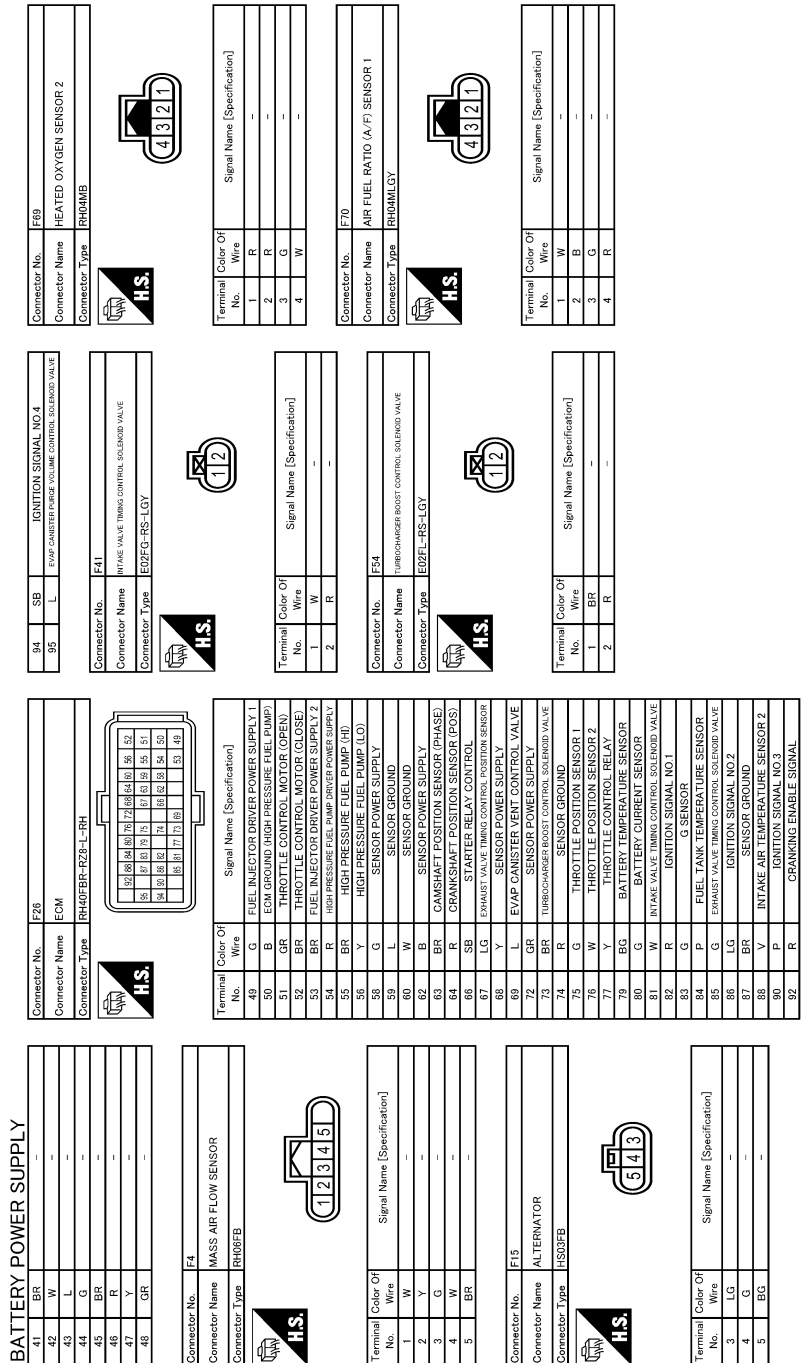
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY

Connector No.	F81
Connector Name	TOM (TRANSMISSION CONTROL MODULE)
Connector Type	RM40PE-R28-L-R4

Terminal No.	Color	Wire	Signal Name [Specification]
1	G		R RANGE SW
2	Y		N RANGE SW
3	W		D RANGE SW
4	V		
5	B		GROUND
6	BR		CLOCK (SEL 2)
8	G		CHIP SELECT (SEL 1)
9	G		DATE I/O (SEL 3)
10	W		P RANGE SW
11	L		CVT FLUID TEMPERATURE SENSOR
13	SB		SECONDARY PRESSURE SENSOR
15	P		SENSOR GROUND
25	Y		SENSOR POWER SUPPLY
26	LG		STEP MOTOR D
27	GR		STEP MOTOR C
28	V		STEP MOTOR B
29	BG		STEP MOTOR A
30	R		IGN-L
31	P		IGN-L
32	LG		PRIMARY SPEED SENSOR
34	R		SECONDARY SPEED SENSOR
37	L		LOCK-UP SELECT SOLENOID VALVE
38	G		FORBID COMMUTER GLITCH SOLENOID VALVE
39	W		SECONDARY PRESSURE SOLENOID VALVE
40	Y		LINE PRESSURE SOLENOID VALVE
42	B		GROUND
46	LG		IGNITION POWER SUPPLY
47	BG		BATTERY POWER SUPPLY (MEMORY BACK-UP)
48	Y		IGNITION POWER SUPPLY

Connector No.	F100
Connector Name	EXHAUST VALVE TRIMING CONTROL SOLENOID VALVE
Connector Type	ED2FCS-RS-LGY

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

Connector No.	IM1
Connector Name	FUSE BLOCK (J/B)
Connector Type	LO1FW-MC

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

Connector No.	IM7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK18FW

Terminal No.	Color	Wire	Signal Name [Specification]
2	P		
3	V		
4	LG		
5	G		
6	Y		
7	BR		
12	B		
13	L		
15	GR		
16	V		

Connector No.	F106
Connector Name	4-UP PLANETARY REDUCTION CONTROL SOLENOID VALVE
Connector Type	ED2FL-RS-LGY

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

Connector No.	IM4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD18FW

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

Connector No.	IM19
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS

Terminal No.	Color	Wire	Signal Name [Specification]
2	P		
3	V		
4	LG		
5	G		
6	Y		
7	BR		
12	B		
13	L		
15	GR		
16	V		

Connector No.	IM13
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS

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

Connector No.	IM13
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS

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

Connector No.	IM13
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS

Terminal No.	Color	Wire	Signal Name [Specification]
1	P		
2	Y		
3	BR		
4	W		
6	SB		
7	V		
9	BR		
10	V		
11	LG		
12	W		

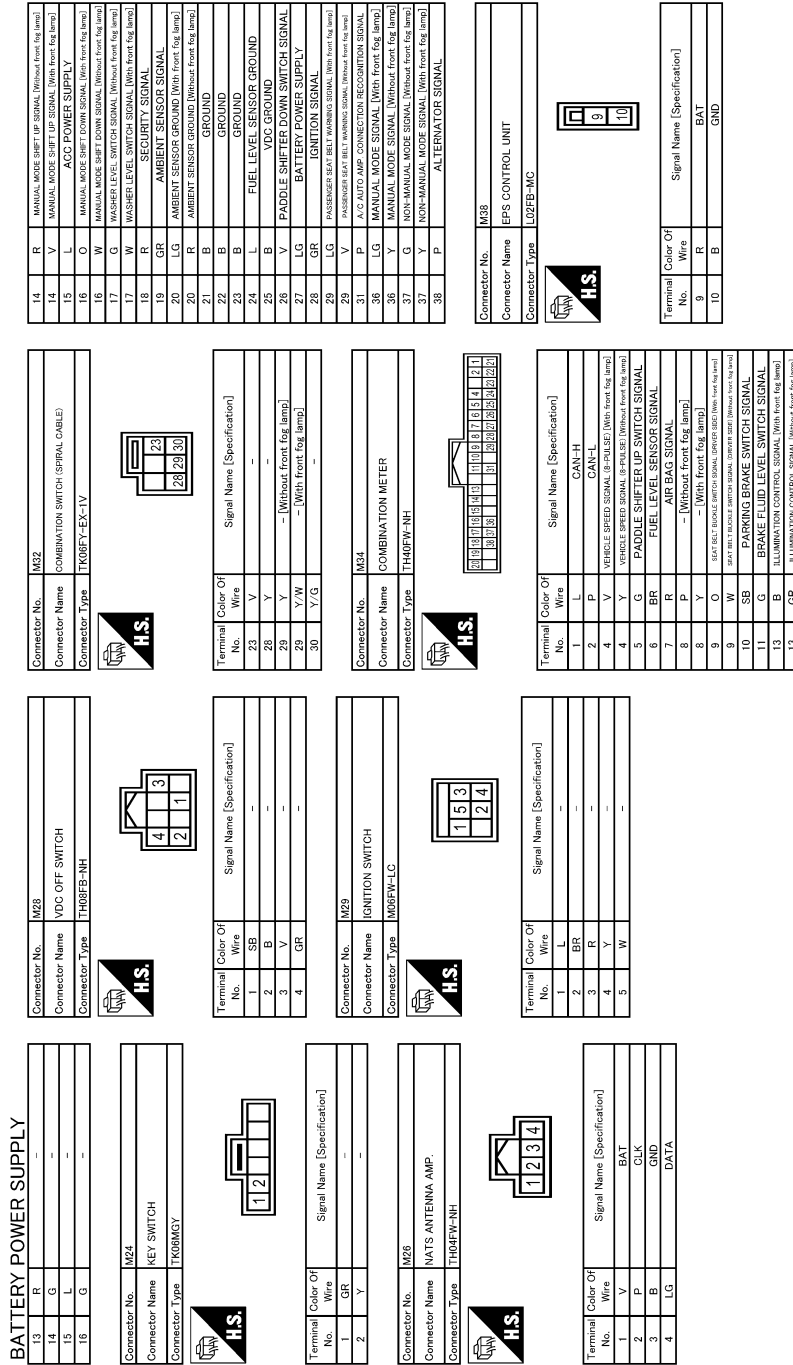
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JRMWE7930GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK09FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	SB	-
3	V	-
4	GR	- [Without front fog lamp]

Connector No.	M48
Connector Name	AWD MODE SWITCH
Connector Type	TK09FW-IV



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	B	-
4	V	-
5	G	-
6	R	-

Connector No.	M49
Connector Name	NATS ANTENNA AMP.
Connector Type	TH06FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BAT
2	P	CLK
3	LG	DATA
4	B	GND

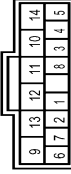
Connector No.	M50
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH



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

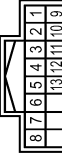
19	W	A/MIX DRIVE SIGNAL 2
20	L	A/MIX DRIVE SIGNAL 1
21	G	IGNITION POWER SUPPLY
22	SB	INTAKE DOOR MOTOR PBR P/B SIGNAL
32	B	REC DRIVE SIGNAL
33	V	REC DRIVE SIGNAL
34	V	MODE DRIVE SIGNAL 4
35	R	MODE DRIVE SIGNAL 3
36	P	MODE DRIVE SIGNAL 2
37	R	MODE DRIVE SIGNAL 1
38	P	MODE DRIVE SIGNAL 4
39	Y	MODE DRIVE SIGNAL 3
40	V	MODE DRIVE SIGNAL 2

Connector No.	M53
Connector Name	A/C CONTROL
Connector Type	SEA09FB-SHA0



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	SB	-
3	W	-
4	R	-
9	GR	-
10	B	-
11	R	-
12	Y	-
13	L	-
14	LG	-

Connector No.	M57
Connector Name	CVT SHIFT SELECTOR
Connector Type	TH10FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	B	-
3	BR	-
4	B	-
5	V	-
6	GR	-
7	Y	-
8	W	-
9	R	-
10	B	-
11	G	-
12	SB	- [Without front fog lamp]
13	G	- [Without front fog lamp]
14	P	- [Without front fog lamp]

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA0-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
56	W	DR DOOR UNLK OUTPUT
57	L	BAT (FUSE)
58	LG	INT ROOM LAMP PWR SRLY
60	BR	INT ROOM LAMP CONT
63	SB	A/C IND OUTPUT

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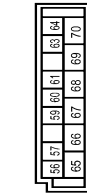
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY

65	Y	BAT (F/L) (BAT)
66	P	PW PWR SPL Y (BAT)
67	L	PW PWR SPL Y (BAT)
68	SB	PASS RE DOOR UNLK OUTPUT
69	V	ALL DOOR LOCK OUTPUT
70	B	GND

Connector No.	M169
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA



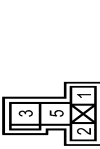
Terminal No.	Color Of Wire	Signal Name [Specification]
56	LG	INT ROOM LAMP PWR SPL Y [With front fog lamp]
57	P	INT ROOM LAMP PWR SPL Y [Without front fog lamp]
58	L	BAT (FUSE)
59	SB	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	W	TURN SIG RH OUTPUT
62	BR	INT ROOM LAMP CONT
63	R	REVERSE SW
64	R	ALL DOOR UNLK OUTPUT
65	W	DR DOOR UNLK OUTPUT
66	B	GND
67	B	GND
68	L	PW PWR SPL Y (GND)
69	P	PW PWR SPL Y (BAT)
70	Y	BAT (F/L)

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



Terminal No.	Color Of Wire	Signal Name [Specification]
75	LG	DR DOOR REG SW
76	LG	PASS DOOR REG SW
78	P	DRIVER DOOR ANT+
79	V	DRIVER DOOR ANT-
80	LG	PASS DOOR ANT+
81	Y	PASS DOOR ANT-
82	W	REAR EMPPR ANT+
83	LG	REAR EMPPR ANT-
84	BR	ROOM ANT +
85	GR	ROOM ANT -
86	G	ROOM ANT 2+
87	R	ROOM ANT 2-
88	V	LUGGAGE ROOM ANT+
89	LG	LUGGAGE ROOM ANT-
90	W	PUSH STR IGN SW ILL PWR
91	V	AGC CORNLD
92	R	PUSH BY PWSN BUTTER
93	CR	AGC RELAY CONT
94	BR	STARTER RELAY CONT
97	SB	IGN RELAY (IDLE /R) CONT
98	P	IGN RELAY (F/B) CONT
99	P	PUSH SW
100	P	CLUTCH INTERLOCK SW
101	Y	NEUTRAL SW
102	L	NEUTRAL SW
104	SB	CVT SHIFT SELECT PWR SPL Y
105	V	STOP LAMP SW 2
106	Y	BLWR RELAY CONT

Connector No.	M71
Connector Name	HEATED SEAT RELAY
Connector Type	MSR2FL-MZ-LC



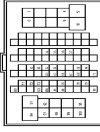
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	
2	LG	
3	G	
5	V	

Connector No.	M75
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	POWER
2	SB	SIGNAL
4	V	GND

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CSI16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	
4	V	
5	W	
6	P	
9	R	
10	R	
34	LG	
35	SB	
36	B	
37	P	
52	R	
53	L	
54	SB	
55	P	
58	LG	
59	G	
62	G	
65	GY	
66	V	
67	V	
68	R	
70	V	
71	R	
72	GR	
73	G	
76	W	
78	LG	
79	V	
80	LG	
83	P	
84	G	
85	BR	
86	LG	
90	SHIELD	
91	Y	
92	BR	

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY

95	R	- [Without Intelligent Key]
95	Y	- [With Intelligent Key]
86	L	-
87	GR	-
88	G	-
89	W	-
100	LG	-

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	LQ2MB-AC



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

Connector No.	M80
Connector Name	HEATED SEAT SWITCH LH
Connector Type	NS08FH-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	Y	-
3	P	-
4	B	-
5	V	-
6	GR	-

Connector No.	M81
Connector Name	HEATED SEAT SWITCH RH
Connector Type	NS08FH-CS



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

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BAT
2	V	ILL
5	GR	ILL CONT
6	L	CAN-H
7	SB	IGN
10	B	GND
11	B	GND
12	P	CAN-L

Connector No.	M81
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2



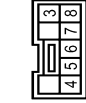
Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (-)
3	GR	SOUND SIGNAL FRONT SPEAKER LH (+)
4	LG	SOUND SIGNAL REAR SPEAKER LH (+)
5	W	SOUND SIGNAL REAR SPEAKER LH (-)
6	W	STRG SW A [Without front fog lamp]
6	W	STRG SW A [With front fog lamp]
7	L	ACC
8	GR	ILLUMINATION CONTROL SIGNAL (-)
9	V	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	BR	SOUND SIGNAL REAR SPEAKER RH (+)
14	Y	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/G	STRG SW GND [With front fog lamp]
15	P	STRG SW GND [Without front fog lamp]
16	GR/B	STRG SW B [With front fog lamp]
16	LG	STRG SW B [Without front fog lamp]
18	LG	VEHICLE SPEED (3-PULSE)
19	BR	BATTERY

Connector No.	M85
Connector Name	GLOVE BOX LAMP
Connector Type	AG2FW



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

Connector No.	M101
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FER



Terminal No.	Color Of Wire	Signal Name [Specification]
3	G	-
4	B	-
5	W	-
6	R	-
7	V	-
8	LG	-

Connector No.	M102
Connector Name	IPod ADAPTER
Connector Type	TH24FP-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	L	ACC
4	LG	AV COMM (L)
5	BR	BATTERY
6	GR	USB D+ SIGNAL
7	LG	USB D- SIGNAL
8	W	iPod BATTERY CHARGE 12V

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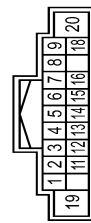
POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY

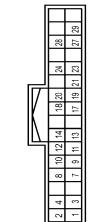
9	V	COMM. (iPod ADAPTER, iPod)
10	G	COMM. (iPod ADAPTER)
11	R	ACCESSORY DETECT
12	R	IPod SOUND SIGNAL RH (+)
13	W	IPod SOUND SIGNAL LH (+)
14	G	IPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	SB	AV COMM (H)
17	SHIELD	SHIELD
19	SHIELD	SHIELD
20	BR	IPod BATTERY CHARGE SV
21	SB	IPod CONNECTION RECOGNITION
22	P	ACCESSORY DETECT
23	Y	IPod SOUND SIGNAL GND
24	G	IPod SOUND SIGNAL LH (+)

Connector No.	M107
Connector Name	NAVI CONTROL UNIT
Connector Type	TH1BFV-GS2



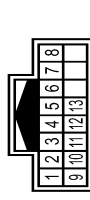
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	MOOFER AMP ON SIGNAL
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	GR	SOUND SIGNAL FRONT SPEAKER LH (-)
4	LG	SOUND SIGNAL REAR SPEAKER LH (+)
5	W	SOUND SIGNAL REAR SPEAKER LH (-)
6	G	STRG SW A
7	L	ACC
8	GR	ILLUMINATION CONTROL SIGNAL (-)
9	V	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	BR	SOUND SIGNAL REAR SPEAKER RH (+)
14	Y	SOUND SIGNAL REAR SPEAKER RH (-)
15	V	STRG SW GND
16	R	STRG SW B
18	Y	VEHICLE SPEED SIGNAL (8-PULSE)
19	BR	BATTERY
20	B	GND

Connector No.	M127
Connector Name	TEL ADAPTER UNIT
Connector Type	TH22FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BATTERY
2	L	ACC
3	SB	IGNITION
4	B	GND
7	G	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE SIGNAL GND
9	BR	SOUND SIGNAL (+)
10	GR	SOUND SIGNAL (-)
11	Y	TEL ON SIGNAL
12	G	STRG SW A
13	R	STRG SW B
14	V	STRG SW GND
17	W	STRG SW A
18	LG	STRG SW B
19	P	STRG SW GND
20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	Y	VEHICLE SPEED (8-PULSE)
28	R	MICROPHONE VCC

Connector No.	M324
Connector Name	CVT SHIFT SELECTOR
Connector Type	TH18MW-NH



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

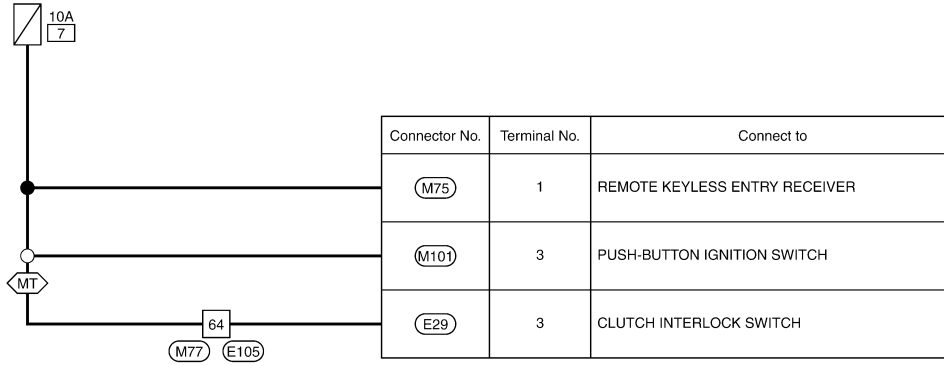
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.7 - BATTERY POWER SUPPLY FUSE No. 7

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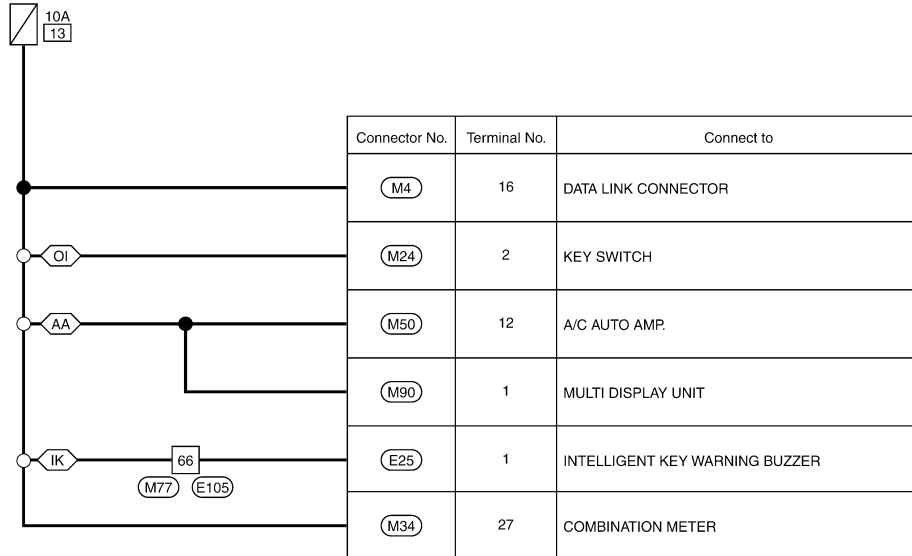
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.13 - BATTERY POWER SUPPLY FUSE No. 13

INFOID:00000009749992

- AA : With automatic A/C
- IK : With Intelligent Key
- OI : Without Intelligent Key



2013/10/01

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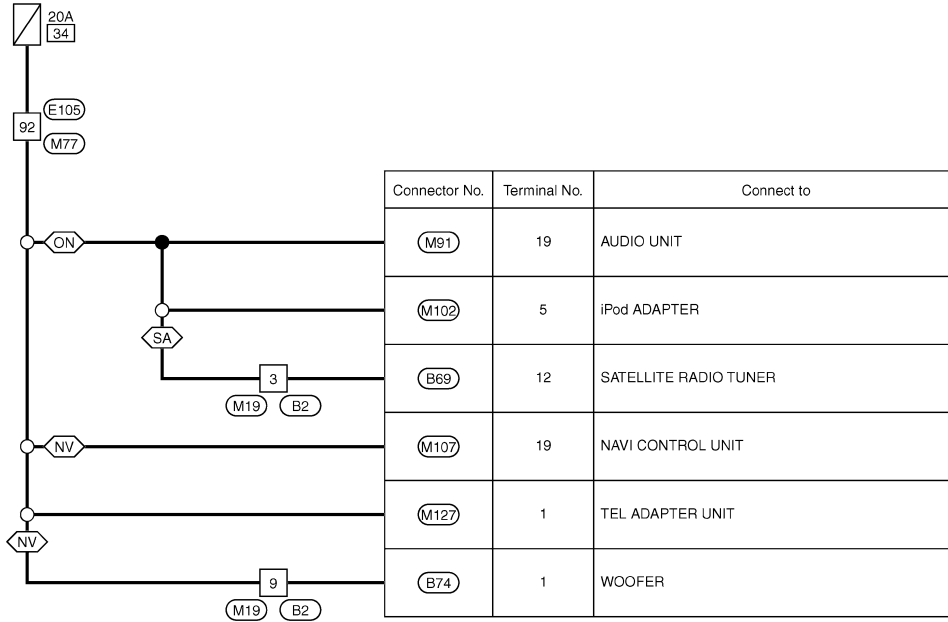
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.34 - BATTERY POWER SUPPLY FUSE No. 34

INFOID:000000009749993

NV : With NAVI
ON : Without NAVI
SA : With satellite radio



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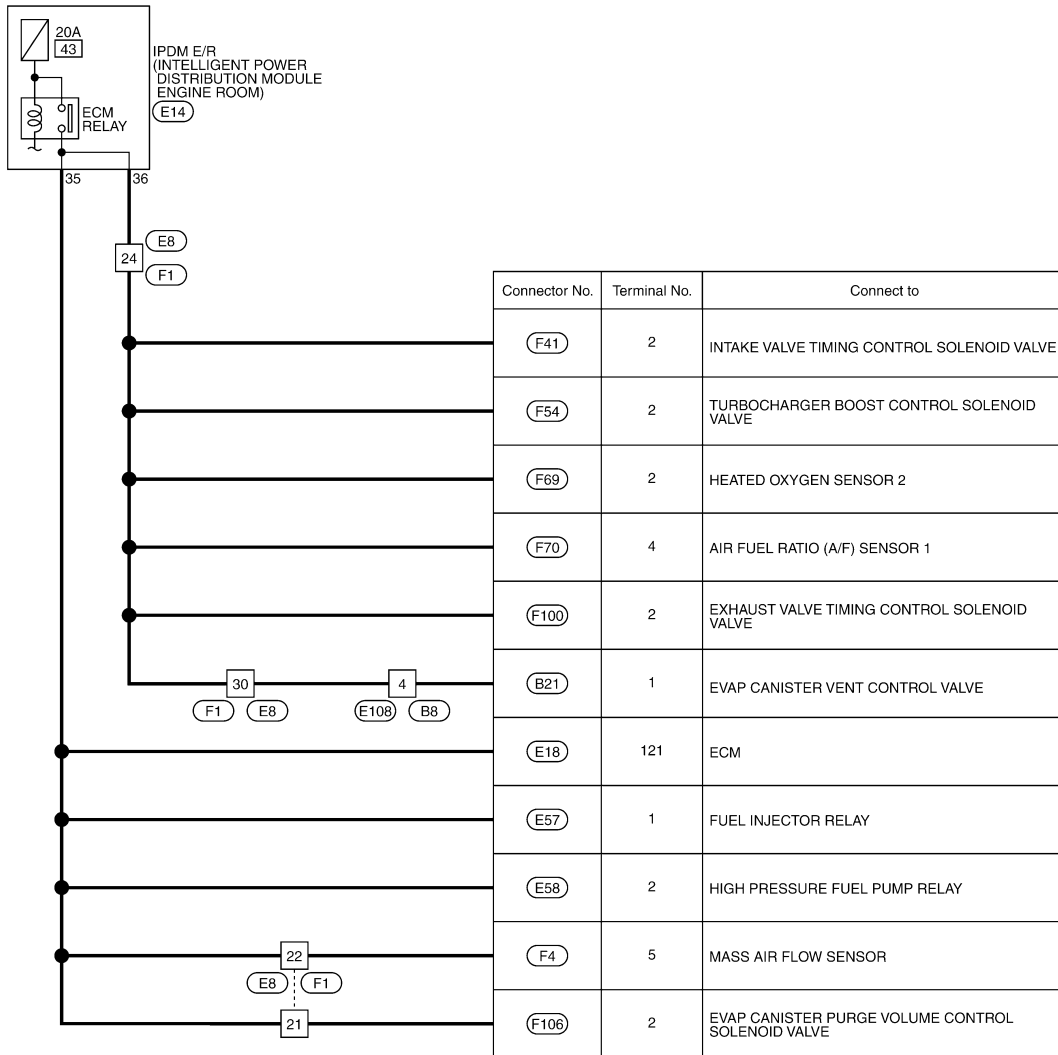
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.43 -

INFOID:00000009749994

BATTERY POWER SUPPLY FUSE No. 43



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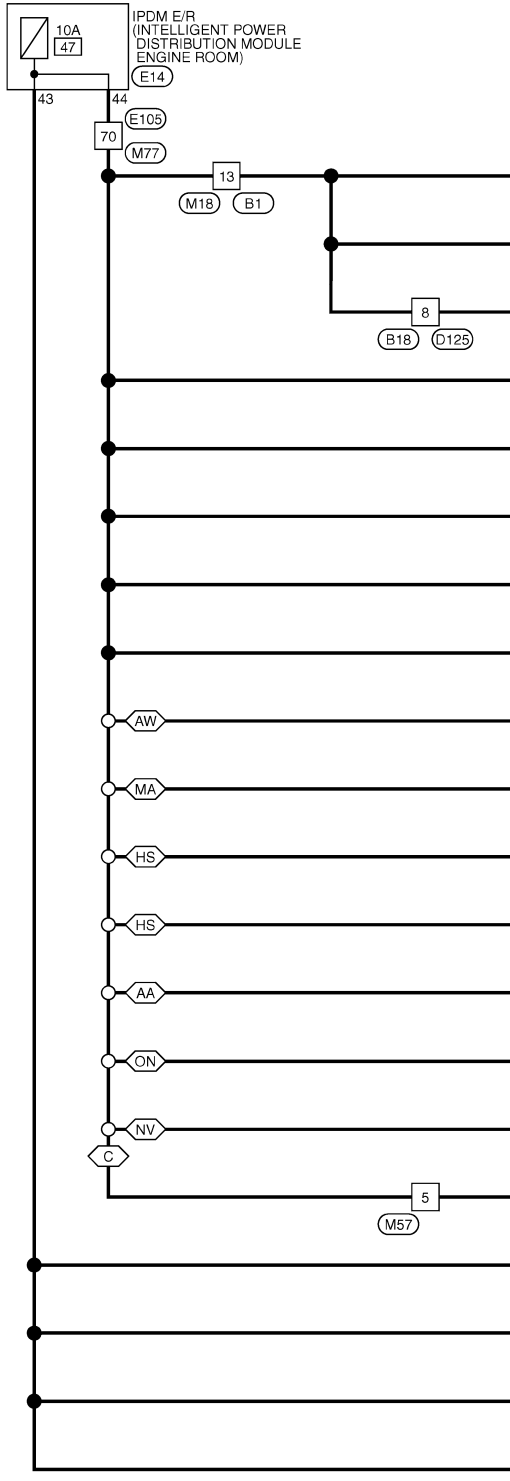
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.47 -

INFOID:00000009749995

BATTERY POWER SUPPLY FUSE No. 47



- (AW) : AWD models
- (C) : With CVT
- (AA) : With auto A/C
- (MA) : With manual A/C
- (NV) : With NAVI
- (ON) : Without NAVI
- (HS) : With heated seat

Connector No.	Terminal No.	Connect to
(B59)	2	REAR COMBINATION LAMP RH
(B80)	2	REAR COMBINATION LAMP LH
(D107)	5	BACK DOOR OPENER SWITCH (LICENSE PLATE LAMP)
(M95)	1	GLOVE BOX LAMP
(M7)	16	DOOR MIRROR REMOTE CONTROL SWITCH
(M28)	3	VDC OFF SWITCH
(M32)	23	COMBINATION SWITCH (SPIRAL CABLE)
(M45)	3	HAZARD SWITCH
(M48)	4	AWD MODE SWITCH
(M53)	5	A/C CONTROL
(M80)	5	HEATED SEAT SWITCH LH
(M81)	5	HEATED SEAT SWITCH RH
(M90)	2	MULTI DISPLAY UNIT
(M91)	9	AUDIO UNIT
(M107)	9	NAVI CONTROL UNIT
(M324)*	5	CVT SHIFT SELECTOR
(E24)	1	PARKING LAMP LH
(E31)	1	FRONT SIDE MARKER LAMP LH
(E32)	1	FRONT SIDE MARKER LAMP RH
(E43)	1	PARKING LAMP RH

2012/07/20

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

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POWER SUPPLY ROUTING CIRCUIT

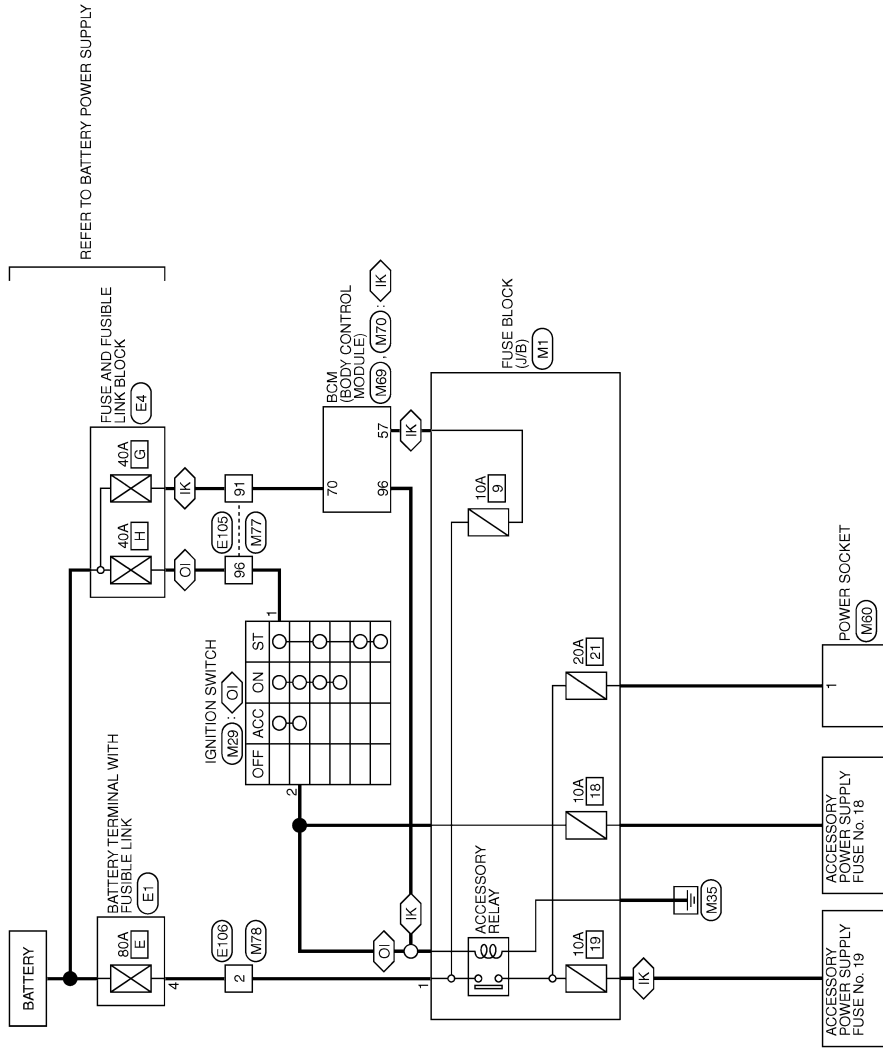
< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:00000009749996

ACCESSORY POWER SUPPLY

IK : With Intelligent Key
 OI : Without Intelligent Key



REFER TO BATTERY POWER SUPPLY

2010/08/30

JCMWA6126GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY

Connector No.	E89
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16RW



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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	SATELLITE RADIO SOUND SIGNAL LH (+)
2	W	SATELLITE RADIO SOUND SIGNAL RH (+)
3	W	SATELLITE RADIO SOUND SIGNAL RH (+)
4	B	SATELLITE RADIO SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD
7	P	CONTROL
8	W	REQUEST SIGNAL (SAT AUDIO)
9	R	COMMUNICATION SIGNAL (SAT AUDIO)
10	B	COMMUNICATION SIGNAL (SAT AUDIO)
11	Y	REQUEST SIGNAL (OHG AUDIO)
12	BR	BAT
13	W	SOURCE CHANGE
14	B	GND
15	B	GND
16	V	AGC



3	4
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Connector No.	E1
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FFGY-MC

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

Connector No.	E4
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	24381-CS900



31	33	34	F	S	H	L
24	15	20	A	A	A	A
7	K	L	M			
9	3	6	10	11	14	16

Terminal No.	Color Of Wire	Signal Name [Specification]
31	GR	
32	G	
33	G	
34	R	
35	BR	
36	V	
38	W	
G	G	— [Without Intelligent Key]
LG	LG	— [With Intelligent Key]
H	P	
I	L	
J	V	
K	L	
M	R	

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
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Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MMW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	
4	Y	
5	GR	
6	P	
9	G	

Terminal No.	Color Of Wire	Signal Name [Specification]
10	R	
34	GR	
35	B	
37	P	
52	SR	
53	BR	
54	V	
55	O	
56	L	
58	Y	
64	LG	
65	GR	
66	R	
67	W	
68	W	
69	GR	
71	LG	
72	V	
73	L	
76	R	
78	B	
79	W	
80	L	
83	Y	
84	LG	
85	GR	
86	O	
89	SHIELD	
92	R	
95	BR	
96	P	
97	GR	
98	W	
99	V	
100	O	

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC



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

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC



1

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

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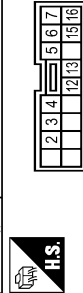
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POWER SUPPLY ROUTING CIRCUIT

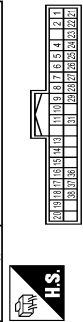
< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY

Connector No.	M27
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16EW



Connector No.	M24
Connector Name	COMBINATION METER
Connector Type	TH40EW-NH



31	P	A/C AUTO AMP CONNECTION RECOGNITION SIGNAL
32	LG	MANUAL MODE SIGNAL (With front fog lamp)
33	Y	MANUAL MODE SIGNAL (Without front fog lamp)
34	G	NON-MANUAL MODE SIGNAL (With front fog lamp)
35	Y	NON-MANUAL MODE SIGNAL (Without front fog lamp)
36	P	ALTERNATOR SIGNAL

Connector No.	M60
Connector Name	POWER SOCKET
Connector Type	POF6B-Z



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (R-PULSE) (With front fog lamp)
4	Y	VEHICLE SPEED SIGNAL (R-PULSE) (Without front fog lamp)
5	G	PADDLE SHIFTER UP SWITCH SIGNAL
6	BR	FUEL LEVEL SENSOR SIGNAL
7	R	AIR BAG SIGNAL
8	P	AIR BAG SIGNAL
9	Y	— [Without front fog lamp]
10	O	SEAT BELT Buckle Sensor Signal (Driver Seat) (With front fog lamp)
11	W	SEAT BELT Buckle Sensor Signal (Driver Seat) (Without front fog lamp)
12	B	PARKING BRAKE SWITCH SIGNAL
13	B	ILLUMINATION CONTROL SIGNAL (With front fog lamp)
14	R	ILLUMINATION CONTROL SIGNAL (Without front fog lamp)
15	V	MANUAL MODE SHIFTER UP SIGNAL (With front fog lamp)
16	L	MANUAL MODE SHIFTER UP SIGNAL (Without front fog lamp)
17	W	ACC POWER SUPPLY
18	O	MANUAL MODE SHIFTER DOWN SIGNAL (With front fog lamp)
19	W	MANUAL MODE SHIFTER DOWN SIGNAL (Without front fog lamp)
20	G	WASHER LEVEL SWITCH SIGNAL (With front fog lamp)
21	W	WASHER LEVEL SWITCH SIGNAL (Without front fog lamp)
22	R	SECURITY SIGNAL
23	R	SECURITY SIGNAL
24	L	AMBIENT SENSOR SIGNAL
25	GR	AMBIENT SENSOR SIGNAL
26	R	AMBIENT SENSOR GROUND (With front fog lamp)
27	B	AMBIENT SENSOR GROUND (Without front fog lamp)
28	B	GROUND
29	B	GROUND
30	L	FUEL LEVEL SENSOR GROUND
31	L	VOL. GROUND
32	V	PADDLE SHIFTER DOWN SWITCH SIGNAL
33	LG	BATTERY POWER SUPPLY
34	GR	IGNITION SIGNAL
35	LG	PASSENGER SEAT BELT WARNING SIGNAL (With front fog lamp)
36	V	PASSENGER SEAT BELT WARNING SIGNAL (Without front fog lamp)

Connector No.	M29
Connector Name	IGNITION SWITCH
Connector Type	M66EW-LC



Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40EW-NH



12	Y	DOOR LK & UNLK SW LOCK
13	BR	DOOR LK & UNLK SW UNLOCK
14	W	RECEIVER GND
15	V	RECEIVER GND
16	BR	NATS ANT AMP
17	P	NATS ANT AMP
18	R	SECURITY IND LAMP CONT
19	LG	DONGLE LINK
20	B	NATS ANT AMP
21	W	THEMIO CONT AMP
22	W	A/C SW
23	O	BLOWER FAN SW
24	L	BLAZARD SW
25	G	BLAZARD SW
26	G	REVERSE SW
27	LG	COMBI SW OUTPUT 5
28	Y	COMBI SW OUTPUT 4
29	V	COMBI SW OUTPUT 3
30	R	COMBI SW OUTPUT 2
31	P	COMBI SW OUTPUT 1
32	GR	KEY SW
33	R	IGN SW ON
34	L	CAN-H
35	P	CAN-L

Connector No.	M89
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FE409EW-FH46-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	—
2	BR	—
3	Y	—
4	Y	—
5	W	—

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	COMBI SW INPUT 5
2	GR	COMBI SW INPUT 4
3	GR	COMBI SW INPUT 4
4	Y	COMBI SW INPUT 2
5	Y	COMBI SW INPUT 2
6	W	COMBI SW INPUT 1
7	L	KEY CYL UNLOCK SW
8	R	KEY CYL LOCK SW
9	R	STOP LAMP SW
10	W	REAR WINDOW DEF SW
11	L	IGN SW ACC

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	INT ROOM LAMP PWR SW Y (With front fog lamp)
2	P	INT ROOM LAMP PWR SW Y (Without front fog lamp)
3	L	BA (L) SW
4	SB	PASS DOOR UNLK OUTPUT
5	W	TURN SIG LH OUTPUT
6	W	TURN SIG RH OUTPUT
7	BR	INT ROOM LAMP CONT
8	R	REVERSE SW
9	V	ALL DOOR LOCK OUTPUT

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY

86	W	DR DOOR UNLK OUTPUT
87	B	PW PWR SPLY (IGN)
88	L	PW PWR SPLY (IGN)
89	P	PW PWR SPLY (BATT)
90	Y	BAT (E/L)

Connector No.	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40PW-NH



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

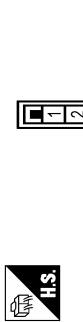
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-GS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	
4	V	
5	W	
6	P	
8	R	
10	R	
34	LG	
35	SB	
36	B	
37	P	
52	R	
53	L	
54	SB	
55	P	
58	LG	
61	G	
64	G	
65	GR	
66	Y	
67	V	
68	R	
70	V	
71	R	
72	GR	
73	G	
76	W	
78	LG	
79	V	
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82	G	
83	BR	
84	BR	
88	LG	
90	SHIELD	
91	Y	
92	BR	

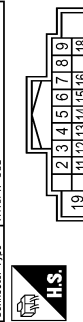
95	R	- [Without Intelligent Key]
96	L	- [With Intelligent Key]
97	GR	-
98	G	-
99	W	-
100	LG	-

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	LG8MB-MC



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

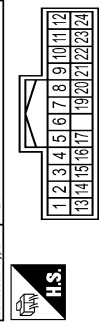
Connector No.	M81
Connector Name	AUDIO UNIT
Connector Type	TH18PW-GS2



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	GR	SOUND SIGNAL FRONT SPEAKER LH (-)
4	W	SOUND SIGNAL REAR SPEAKER LH (+)
5	W	SOUND SIGNAL REAR SPEAKER LH (-)
6	W	STRG SW A [Without front fog lamp]
7	L	ACC
8	GR	ILLUMINATION CONTROL SIGNAL (-)
9	V	ILLUMINATION CONTROL SIGNAL (+)

11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	BR	SOUND SIGNAL FRONT SPEAKER RH (-)
13	BR	SOUND SIGNAL REAR SPEAKER RH (+)
14	V	SOUND SIGNAL REAR SPEAKER RH (-)
15	L/G	STRG SW GND [With front fog lamp]
16	P	STRG SW B [Without front fog lamp]
18	LG	STRG SW B [Without front fog lamp]
18	Y	VEHICLE SPEED (S-PULSE)
19	BR	BATTERY

Connector No.	M102
Connector Name	iPod ADAPTER
Connector Type	TH24FP-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	iPod SOUND SIGNAL LH (+)
2	B	iPod SOUND SIGNAL RH (+)
3	L	ACC
4	LG	AV BATTERY
5	BR	AV BATTERY
6	GR	USB D+ SIGNAL
7	LG	USB D- SIGNAL
8	W	iPod BATTERY CHARGE TV
9	V	COMM (iPod ADAPTER iPod)
10	LG	COMM (iPod iPod ADAPTER)
11	R	ACCESSORY IDENTIFY
12	L	iPod SOUND SIGNAL RH (+)
13	W	iPod SOUND SIGNAL LH (-)
14	G	iPod SOUND SIGNAL RH (-)
15	SHIELD	SHIELD
16	SB	AV COMM (H)
17	SHIELD	SHIELD
18	SHIELD	SHIELD
19	SHIELD	SHIELD
20	SHIELD	SHIELD
21	SB	iPod BATTERY CHARGE SV
22	P	iPod CONNECTION RECOGNITION
23	Y	ACCESSORY DETECT
24	G	iPod SOUND SIGNAL GND
		iPod SOUND SIGNAL LH (+)

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY

Connector No.	M107
Connector Name	NAVI CONTROL UNIT
Connector Type	TH3BFW-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	WOPER AMP ON SIGNAL
2	W	SOUND SIGNAL FRONT SPEAKER LH (+)
3	GR	SOUND SIGNAL FRONT SPEAKER LH (-)
4	LG	SOUND SIGNAL REAR SPEAKER LH (+)
5	W	SOUND SIGNAL REAR SPEAKER LH (-)
6	G	STRG SW A
7	L	ACC
8	GR	ILLUMINATION CONTROL SIGNAL (-)
9	V	ILLUMINATION CONTROL SIGNAL (+)
11	G	SOUND SIGNAL FRONT SPEAKER RH (+)
12	R	SOUND SIGNAL FRONT SPEAKER RH (-)
13	BR	SOUND SIGNAL REAR SPEAKER RH (+)
14	Y	SOUND SIGNAL REAR SPEAKER RH (-)
15	V	STRG SW GND
16	B	STRG SW B
18	X	VEHICLE SPEED SIGNAL (8-PULSE)
19	BR	BATTERY
20	B	GND

Connector No.	M127
Connector Name	TEL ADAPTER UNIT
Connector Type	TH3BFW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BATTERY
2	L	ACC
3	SB	IGNITION
4	B	GND
7	G	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE SIGNAL GND
9	BR	SOUND SIGNAL (+)
10	GR	SOUND SIGNAL (-)
11	Y	TEL ON SIGNAL
12	G	STRG SW A
13	R	STRG SW B
14	V	STRG SW GND
16	LG	STRG SW A
17	LG	STRG SW B
18	P	STRG SW GND
20	B	CONTROL SIGNAL
21	B	CONTROL SIGNAL
22	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
27	B	CONTROL SIGNAL
28	Y	VEHICLE SPEED (8-PULSE)
29	R	MICROPHONE VCC

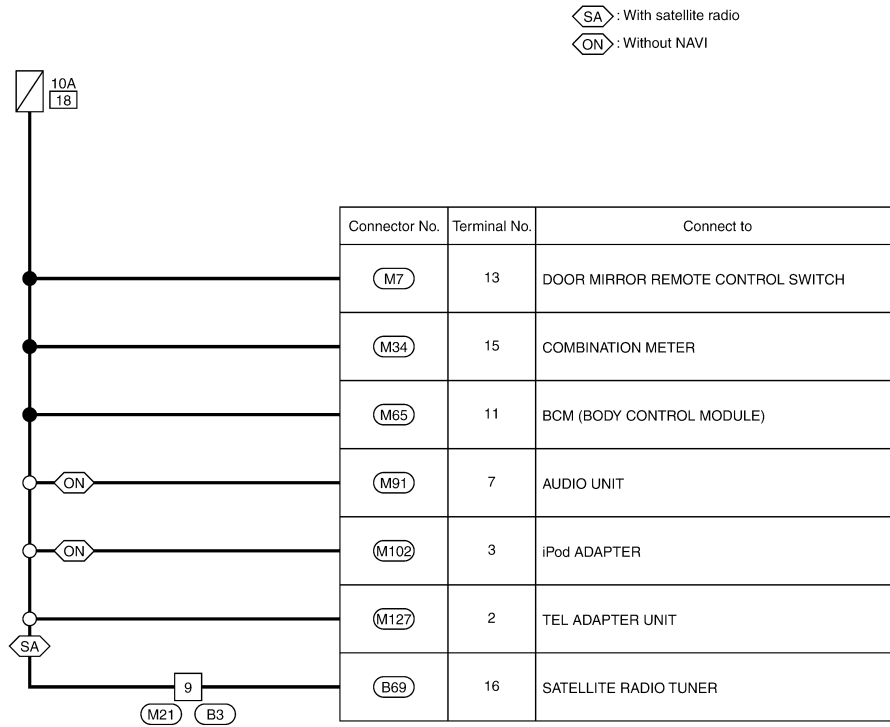
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No.18 - ACCESSORY POWER SUPPLY FUSE No. 18

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

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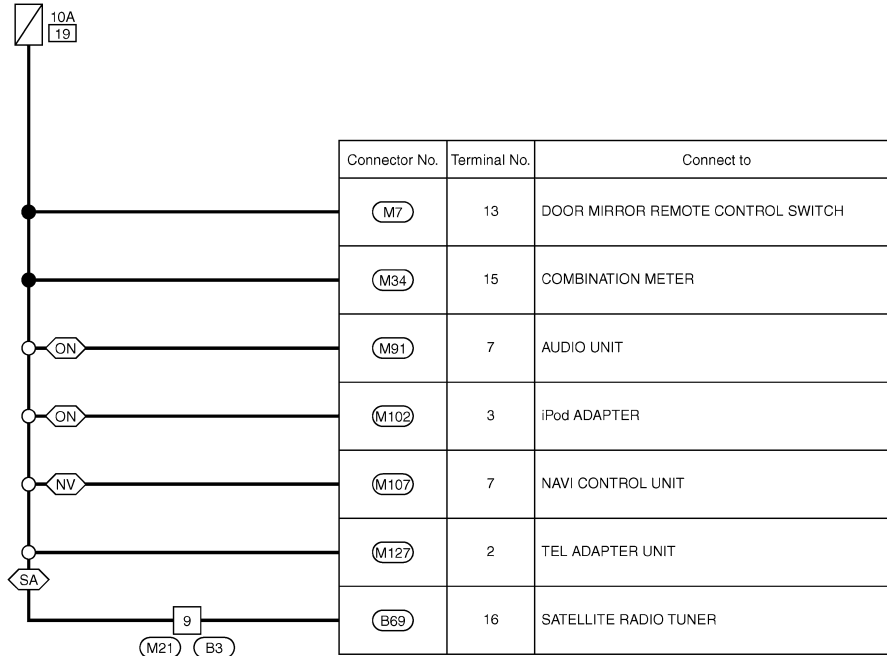
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No.19 - ACCESSORY POWER SUPPLY FUSE No. 19

INFOID:000000009749998

 : With NAVI
 : Without NAVI
 : With satellite radio



2010/08/30

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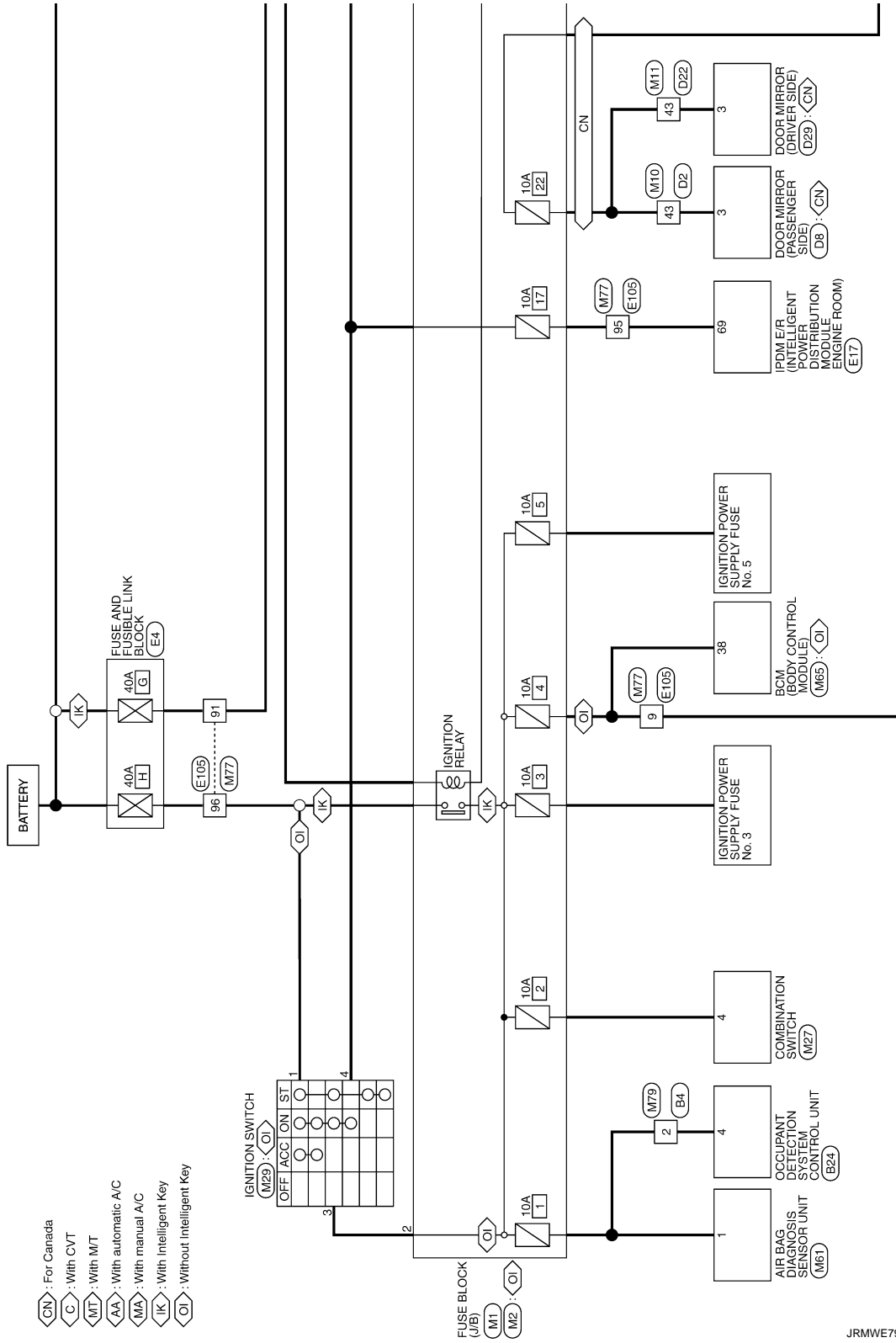
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY -

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IGNITION POWER SUPPLY



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

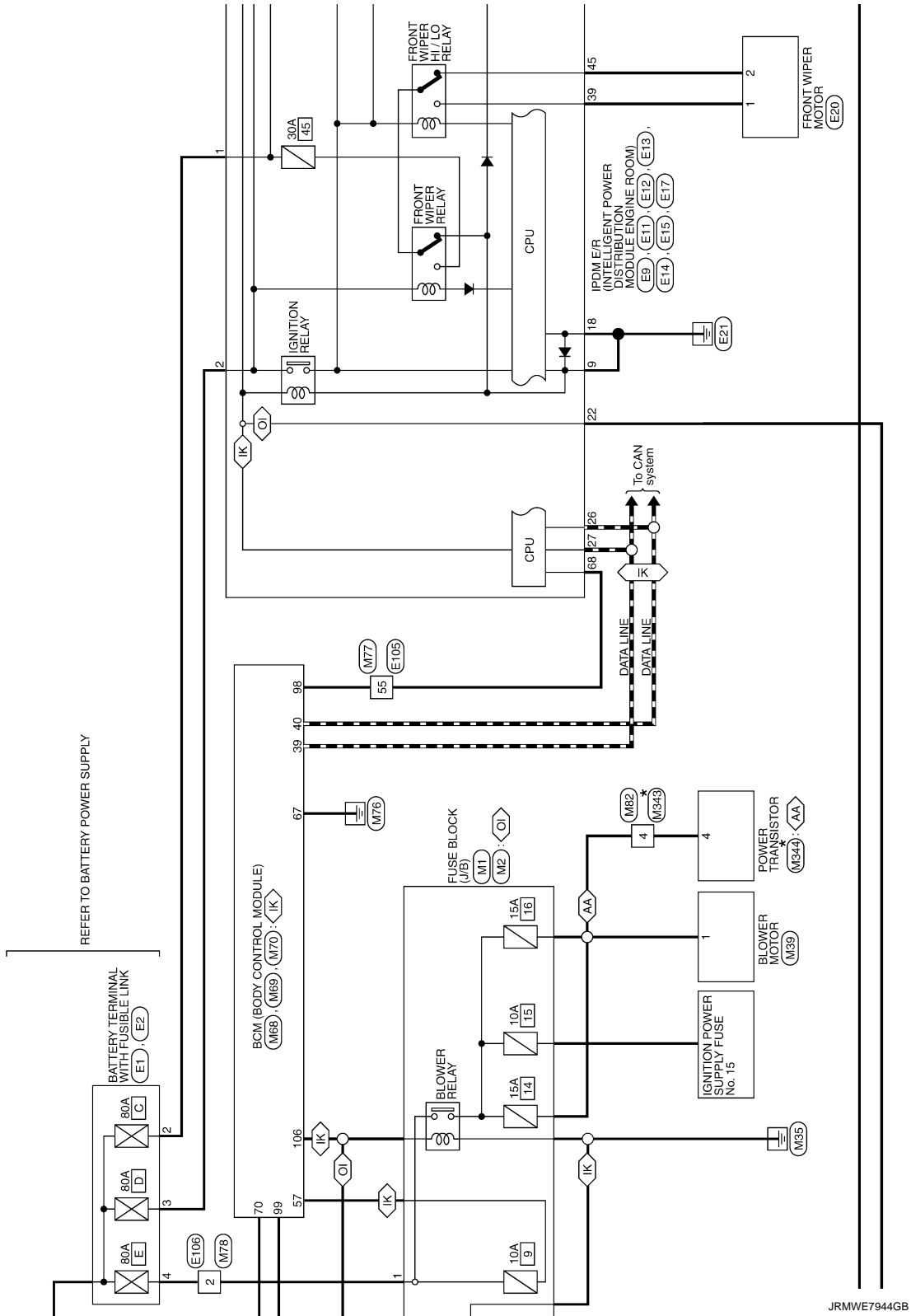
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POWER SUPPLY ROUTING CIRCUIT

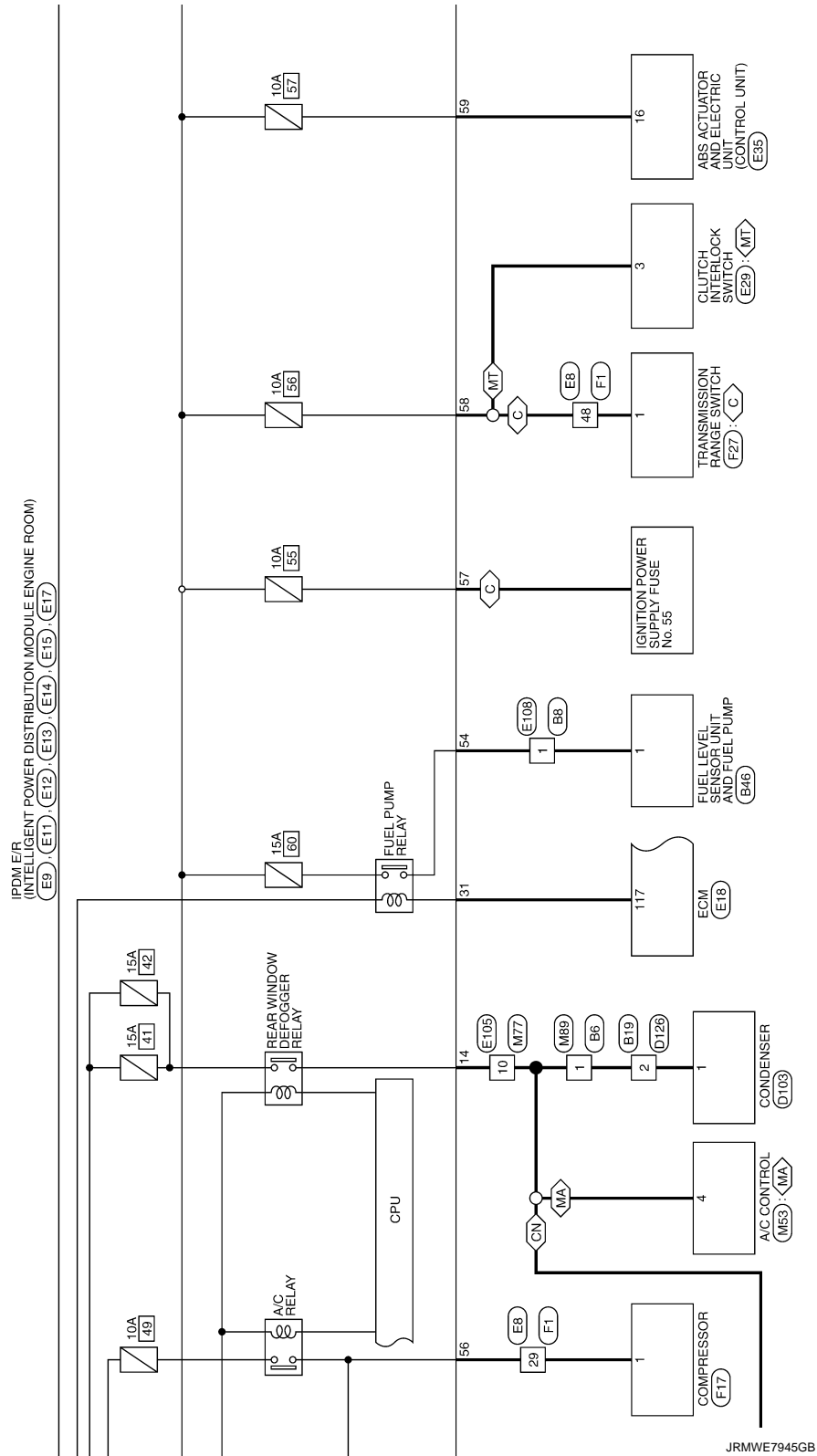
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POWER SUPPLY ROUTING CIRCUIT

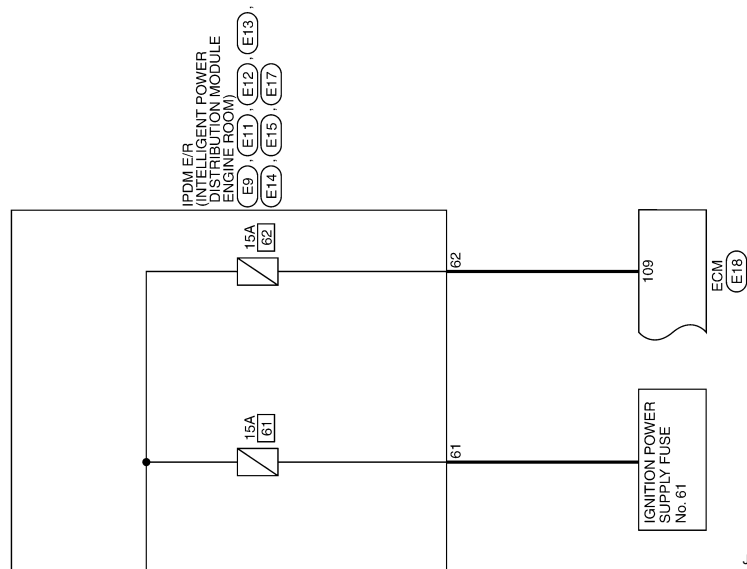
< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

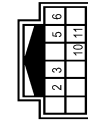


POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH12MW-NH



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

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	IM02MW-LC



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

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	NS04FW-CS



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

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	IM02MB-PP-LC



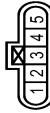
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	R	-

Connector No.	B24
Connector Name	OCCUPANT DETECTION SYSTEM CONTROL UNIT
Connector Type	TH08PW-NH



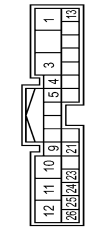
Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	COMMUNICATION
4	B	COMMUNICATION
5	B	COMMUNICATION
7	GR	EC-LINE

Connector No.	B46
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
Connector Type	EDGE-0Y-RS



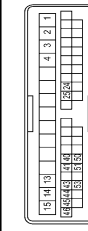
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BR	-
3	B	-
4	P	-
5	L	-

Connector No.	B47
Connector Name	AMD CONTROL MODULE
Connector Type	TH20FW-TB6



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	COMMON
3	LG	COMMON
4	P	CAN-L
5	P	CAN-R
8	W	AMD-V-SW
10	B	GND
11	B	GND
12	Y	SOL BAT
13	G	2ND SW
21	Y	AMD SW
23	R	AMD SOL L+
24	V	AMD SOL L-
25	W	AMD SOL R+
26	Y	AMD SOL R-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	G	-
3	Y	-
4	V	-
13	W	-

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY

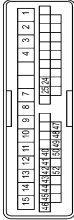
15	SB	-
16	R	-
24	R	-
25	G	-
40	LG	-
41	Y	-
43	GR	-
44	V	-
45	W	-
46	BG	-
50	P	-
51	B	-
53	B	-

Connector No.	DB
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH8BMW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	GR	-
7	BG	-
8	W	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-GS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	W	-
3	SB	-
4	V	-
7	G	-
8	BG	-
9	LG	-
10	BR	-
11	W	-
12	SB	-
13	B	-
14	L	-
15	P	-
24	G	-
40	G	-
41	Y	-
42	P	-
43	L	-
44	GR	-
45	W	-
46	BG	-
47	G	-
48	L	-
49	R	-
50	LG	-
52	BR	-

Connector No.	D29
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH8BMW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	GR	-
7	BG	-
8	Y	-

Connector No.	D103
Connector Name	CONDENSER
Connector Type	P01FB-A



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

Connector No.	D126
Connector Name	WIRE TO WIRE
Connector Type	M02FB-LC



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

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



Terminal No.	Color Of Wire	Signal Name [Specification]
3	G	-
4	W	-

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POWER SUPPLY ROUTING CIRCUIT

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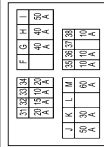
IGNITION POWER SUPPLY

Connector No.	E2
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FB-MC



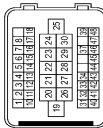
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	
2	R	

Connector No.	E4
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	Z4381_C9900



Terminal No.	Color Of Wire	Signal Name [Specification]
31	GR	
32	LG	
33	O	
34	R	
35	BR	
36	V	
38	W	
G	G	-- [Without Intelligent Key]
G	LG	-- [With Intelligent Key]
H	P	
I	L	
J	V	
K	L	
M	R	

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SA436MG-RS10-SJZZ



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	
2	O	
3	O	
4	LG	
5	O	
6	V	
7	BR	
8	SB	
10	R	
11	O	
12	G	
13	O	
14	Y	
15	R	
16	SB	
17	WR	
18	L/B	
20	L/W	
21	G	
22	G	
23	SHIELD	
24	P	
25	R	
26	B	
27	B	
28	LG	
29	SB	
30	R	
32	Y	
33	BR	
34	W	
37	L	
39	B	
40	P	

41	V	
42	BR	
44	G	
45	BR	
46	Y	
47	SB	
48	LG	

Connector No.	E9
Connector Name	IPM1 E R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	L02FB-MC



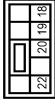
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	
2	G	

Connector No.	E11
Connector Name	IPM1 E R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	M0BFD-C



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

Connector No.	E12
Connector Name	IPM1 E R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	NS0BFR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
18	B/Y	
19	W	-- [Without front fog lamp]
19	W	-- [With front fog lamp]
20	G	-- [Without front fog lamp]
20	V	-- [With front fog lamp]
22	G	

Connector No.	E13
Connector Name	IPM1 E R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH1FPW-NH

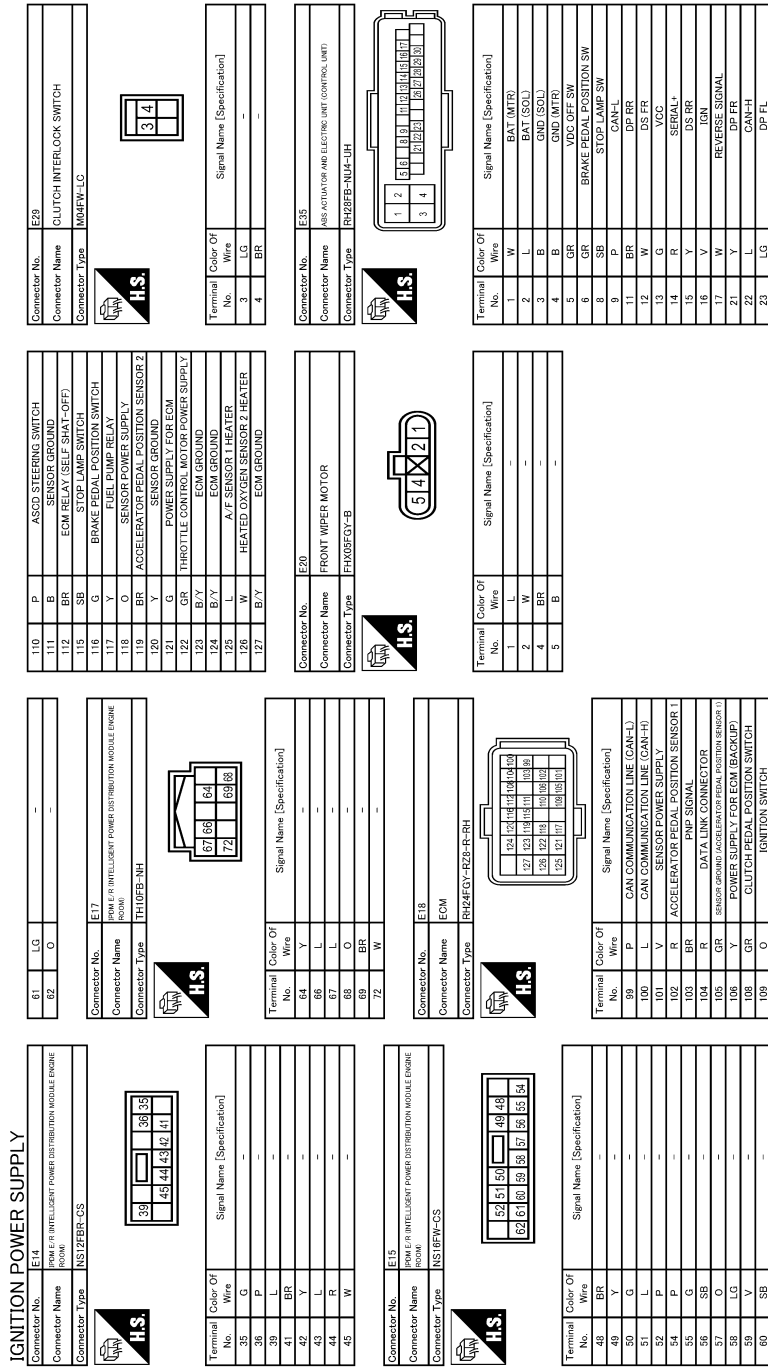


Terminal No.	Color Of Wire	Signal Name [Specification]
23	SB	
25	BR	
26	P	
27	L	
28	Y	
30	V	
31	Y	
33	G	
34	L	

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY

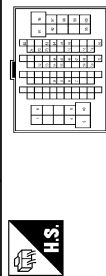
26	SB	DP-RL
27	SR	DP-RL
28	BL	GA-RL
29	W	SERIAL
30	O	DS-RL

Connector No.	E102
Connector Name	STOP LAMP SWITCH
Connector Type	INSHMV-LC



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH8BMV-CSE-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
4	Y	-
5	GR	-
8	B	-
9	G	-
10	R	-
34	O	-
35	GR	-
36	B	-

37	P	-
38	SB	-
39	BR	-
40	Y	-
41	O	-
56	L	-
59	Y	-
64	LG	-
65	GR	-
66	R	-
67	W	-
68	SB	-
70	R	-
71	LG	-
72	Y	-
73	L	-
74	R	-
75	B	-
76	W	-
80	L	-
83	Y	-
84	LG	-
85	GR	-
86	O	-
90	SHIELD	-
91	G	-
92	R	-
95	BR	-
96	GR	-
97	W	-
98	V	-
99	O	-
100	O	-

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	LGZFB-MC



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

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



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

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



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

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA38FB-RSU-SL22



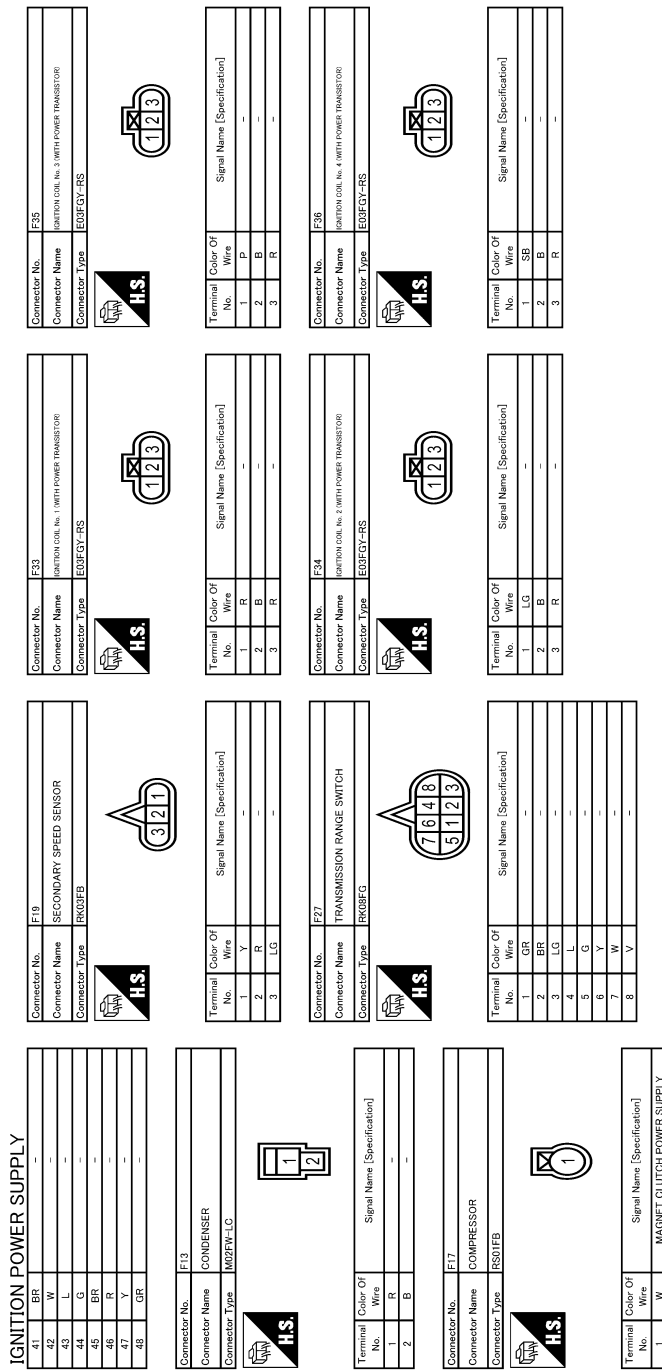
Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	-
2	Y	-
3	Y	-
4	EG	-
5	LG	-
6	SB	-
7	G	-
8	R	-
10	BR	-
11	Y	-
12	G	-
13	BG	-
14	L	-
15	BR	-
16	P	-
17	SB	-
18	G	-
19	G	-
20	BR	-
21	G	-
22	BR	-
23	SHIELD	-
24	R	-
25	R	-
26	B	-
27	B	-
28	R	-
29	W	-
30	R	-
31	EG	-
32	LG	-
33	BR	-
34	G	-
37	G	-
39	B	-
40	P	-

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY

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



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

Connector No.	F55
Connector Name	PRIMARY SPEED SENSOR
Connector Type	RK02FE



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

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



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

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



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

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	LOTFW-MC



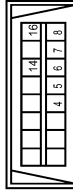
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	M0TFW-LC



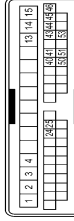
Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	-

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



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

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	TH40MP-CS15



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	SB	-
4	Y	-
13	GR	-
15	GR	-
24	R	-
25	G	-
40	LG	-
41	Y	-
43	Y	-
44	V	-
45	LG	-
46	BR	-
50	P	-
51	B	-
53	B	-

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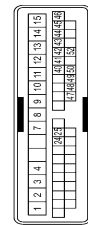
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH48BW-C515



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	WASHER (FR) [Without front fog lamp]
2	GR	WASHER (FR) [With front fog lamp]
3	W	WASHER (FR) [Without front fog lamp]
4	SB	WASHER (FR) [With front fog lamp]
5	LG	IGN [Without front fog lamp]
6	Y	IGN [With front fog lamp]
7	GR	OUTPUT 3
8	GR	OUTPUT 3
9	GR	OUTPUT 3
10	Y	IGN [Without front fog lamp]
11	GR	OUTPUT 3
12	GR	OUTPUT 3
13	B	OUTPUT 5
14	L	IGNIT 2
15	P	IGNIT 4
16	P	IGNIT 4
17	P	IGNIT 4
18	BR	IGNIT 1
19	R	IGNIT 1
20	V	IGNIT 1
21	V	IGNIT 1
22	V	IGNIT 1
23	V	IGNIT 1
24	P	IGNIT 1
25	GR	OUTPUT 2
26	GR	OUTPUT 2
27	V	IGNIT 2
28	V	IGNIT 2
29	V	IGNIT 2
30	V	IGNIT 2
31	V	IGNIT 2
32	BR	IGNIT 2



Connector No.	M29
Connector Name	IGNITION SWITCH
Connector Type	M09FW-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	IGNITION SWITCH
2	P	IGNITION SWITCH
3	R	IGNITION SWITCH

4	Y	-
5	W	-

Connector No.	M30
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH06FW-NH



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH06FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
3	V	VEHICLE SPEED SIGNAL (3-POL) [With front fog lamp]
4	V	VEHICLE SPEED SIGNAL (3-POL) [Without front fog lamp]
5	C	PADDLE SHIFTER UP SIGNAL
6	C	PADDLE SHIFTER DOWN SIGNAL
7	BR	FUEL LEVEL SENSOR SIGNAL
8	R	APR GAS SIGNAL
9	O	SPAT BEAT LOCKE SWITCH SIGNAL (SPARE BATT) [With front fog lamp]
10	W	SPAT BEAT LOCKE SWITCH SIGNAL (SPARE BATT) [Without front fog lamp]
11	SB	PARKING BRAKE SWITCH SIGNAL

11	G	BRAKE FLUID LEVEL SWITCH SIGNAL
12	B	ILLUMINATION CONTROL SIGNAL [With front fog lamp]
13	GR	ILLUMINATION CONTROL SIGNAL [Without front fog lamp]
14	R	MANUAL MODE SHIFT UP SIGNAL [Without front fog lamp]
15	L	MANUAL MODE SHIFT DOWN SIGNAL [Without front fog lamp]
16	O	MANUAL MODE SHIFT DOWN SIGNAL [With front fog lamp]
17	G	WASHER LEVEL SWITCH SIGNAL [Without front fog lamp]
18	W	WASHER LEVEL SWITCH SIGNAL [With front fog lamp]
19	R	SECURITY SIGNAL
20	GR	AMBIENT SENSOR SIGNAL
21	LG	AMBIENT SENSOR GROUND [With front fog lamp]
22	R	AMBIENT SENSOR GROUND [Without front fog lamp]
23	B	GROUND
24	B	GROUND
25	B	FUEL LEVEL SENSOR GROUND
26	V	VDC GROUND
27	LG	PADDLE SHIFTER DOWN SWITCH SIGNAL
28	GR	BATTERY POWER SUPPLY
29	LG	IGNITION SIGNAL
30	V	PASSENGER SEAT BELT WARNING SIGNAL [Without front fog lamp]
31	P	A/C AUTO AMP CONNECTION RECOGNITION SIGNAL
32	LG	MANUAL MODE SIGNAL [With front fog lamp]
33	Y	MANUAL MODE SIGNAL [Without front fog lamp]
34	G	NON-MANUAL MODE SIGNAL [Without front fog lamp]
35	Y	NON-MANUAL MODE SIGNAL [With front fog lamp]
36	P	ALTERNATOR SIGNAL

Connector No.	M37
Connector Name	EPS CONTROL UNIT
Connector Type	TH06FW-NH



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

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY

Connector No.	M39
Connector Name	BLOWER MOTOR
Connector Type	TM02FW



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

Connector No.	M44
Connector Name	THERMO CONTROL AMP.
Connector Type	SO0FW



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

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



Terminal No.	Color Of Wire	Signal Name [Specification]
2	LG	IR-VEHICLE SENSOR SIGNAL
3	GR	IR-VEHICLE SENSOR SIGNAL
4	GR	IR-VEHICLE SENSOR SIGNAL
5	P	SUNLOAD SENSOR SIGNAL
6	L	CAN-H
7	P	CAN-L
8	W	INTAKE DOOR MOTOR PBR POWER SUPPLY
9	P	A/C AUTO AMP. CONNECTION RECOGNITION SIGNAL
10	R	SENSOR GROUND
11	SB	IGNITION POWER SUPPLY
12	Y	BATTERY POWER SUPPLY
13	GR	POWER TRANSISTOR CONTROL SIGNAL
14	LG	BLOWER FAN ON SIGNAL
15	Y	A/C ON SIGNAL
16	BR	A. MIX DRIVE SIGNAL 4
17	BR	A. MIX DRIVE SIGNAL 2
18	W	A. MIX DRIVE SIGNAL 1
20	L	A. MIX DRIVE SIGNAL 3
21	G	IGNITION POWER SUPPLY
22	SB	INTAKE DOOR MOTOR PBR F/B SIGNAL
30	B	GROUND
35	G	REC DRIVE SIGNAL
36	V	FRE DRIVE SIGNAL
37	R	MODE DRIVE SIGNAL 4
38	P	MODE DRIVE SIGNAL 3
39	Y	MODE DRIVE SIGNAL 2
40	V	MODE DRIVE SIGNAL 1

Connector No.	M53
Connector Name	A/C CONTROL
Connector Type	SE400FB-SH4S



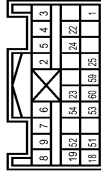
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	
2	W	
3	W	
4	R	
5	V	
6	GR	
7	G	
8	B	
9	B	
10	W	
11	R	
12	Y	
13	L	
14	LG	

Connector No.	M55
Connector Name	AIR MIX DOOR MOTOR
Connector Type	MA00FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	A. MIX DRIVE SIGNAL 2
2	SB	IGNITION POWER SUPPLY
3	BR	A. MIX DRIVE SIGNAL 4
4	L	A. MIX DRIVE SIGNAL 1
6	GR	A. MIX DRIVE SIGNAL 3

Connector No.	M61
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH20CY-EX



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	IGN
2	B	IGN
3	Y	DR1 (+)
4	Y/G	DR1 G.DR2 (-)
5	Y	DR2 (+)
6	Y/R	AS1 (+)
7	Y/B	AS1 (-)
8	Y	AS2 (+)
9	Y	AS2 (-)
18	LG	EGZS (+)
19	V	EGZS (-)
22	SHIELD	SHIELD
23	R	AIR BAG W/L
24	V	SEAT BELT W/L
25	G	GUDOFF BELT TALE
51	R	FMWSS SENS L+
52	C	FMWSS SENS R+
53	Y	FMWSS SENS L+
54	BR	FMWSS SENS L+
59	L	CAN-H
60	P	CAN-L

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color	Wire	Signal Name [Specification]
1		GR	COMBI SW INPUT 5
2		GR	COMBI SW INPUT 4
3		BR	COMBI SW INPUT 3
4		BR	COMBI SW INPUT 2
5		G	COMBI SW INPUT 1
6		W	KEY CYL UNLOCK SW
7		L	KEY CYL UNLOCK SW
8		R	KEY CYL LOCK SW
9		R	STOP LAMP SW
10		W	REAR WINDOW DEF SW
11		L	IGN SW ACC
12		Y	DOOR LK & UNLK SW LOCK
13		BR	DOOR LK & UNLK SW UNLOCK
14		W	RECEIVER GND
15		V	RECEIVER ANT
16		BR	RECEIVER COMM 1
17		BR	RECEIVER COMM 2
18		G	RECEIVER COM 1
19		G	RECEIVER COM 2
20		P	NATS ANT AMP
21		R	SECURITY IND LAMP CONT
22		R	DONGLE LINK
23		SB	NATS ANT AMP
24		LG	THERMO AMP
25		B	A-C SW (With front fog lamp)
26		B	A-C SW (Without front fog lamp)
27		W	BLOWER FAN SW
28		O	HAZARD SW
29		L	BK DOOR OPENER SW
30		L	FR DEFROST SW
31		G	COMBI SW OUTPUT 5
32		LG	COMBI SW OUTPUT 4
33		Y	COMBI SW OUTPUT 3
34		V	COMBI SW OUTPUT 2
35		R	COMBI SW OUTPUT 1
36		P	KEY SW
37		GR	IGN SW ON
38		R	CAN-H
39		L	CAN-L
40		P	CAN-L

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color	Wire	Signal Name [Specification]
1		GR	COMBI SW INPUT 5
2		GR	COMBI SW INPUT 4
3		BR	COMBI SW INPUT 3
4		BR	COMBI SW INPUT 2
5		G	COMBI SW INPUT 1
6		W	KEY CYL UNLOCK SW
7		L	KEY CYL UNLOCK SW
8		R	KEY CYL LOCK SW
9		R	STOP LAMP SW 1
10		W	-
11		L	DOOR LK & UNLK SW LOCK (Without front fog lamp)
12		Y	DOOR LK & UNLK SW LOCK (With front fog lamp)
13		BR	DOOR LK & UNLK SW UNLOCK
14		P	OPTICAL SENS
15		W	RF DEFROGER SW
16		V	OPTICAL SENS
17		V	OPTICAL SENS
18		B	RECEIVER COM 1
19		B	RECEIVER COM 2
20		P	NATS ANT AMP
21		R	SECURITY IND LAMP CONT
22		R	DONGLE LINK
23		SB	NATS ANT AMP
24		LG	THERMO AMP
25		B	A-C SW (With front fog lamp)
26		B	A-C SW (Without front fog lamp)
27		W	BLOWER FAN SW
28		LG	HAZARD SW
29		O	BLOWER FAN SW (Without front fog lamp)
30		L	HAZARD SW (With front fog lamp)
31		L	HAZARD SW (Without front fog lamp)
32		SB	BK DOOR OPENER SW
33		GR	FR DEFROST SW
34		Y	COMBI SW OUTPUT 5
35		V	COMBI SW OUTPUT 4
36		R	COMBI SW OUTPUT 3
37		P	COMBI SW OUTPUT 2
38		G	COMBI SW OUTPUT 1
39		GR	KEY SW
40		R	IGN SW ON
41		L	CAN-H
42		L	CAN-L
43		P	RECEIVER COMM

38	L	CAN-H
39	P	CAN-L



Connector No.	M69
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEAD9FW-FH46-SA



35	37	59	60	61	63	64
65	66	67	68	69	70	

Terminal No.	Color	Wire	Signal Name [Specification]
56		LG	INT ROOM LAMP PWR SPLY (With front fog lamp)
57		L	INT ROOM LAMP PWR SPLY (Without front fog lamp)
58		L	BAT (FUSE)
59		SB	PASS DOOR UNLK OUTPUT
60		V	TURN SIG LH OUTPUT
61		W	TURN SIG RH OUTPUT
62		BR	INT ROOM LAMP CONT
63		R	REVERSE SW
64		R	ALL DOOR LOCK OUTPUT
65		V	DR DOOR UNLK OUTPUT
66		B	DR DOOR UNLK OUTPUT
67		B	PW PWB SPLY (IGN)
68		P	PW PWB SPLY (BAT)
69		P	BAT (F/L)
70		Y	BAT (R/L)

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



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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Terminal No.	Color	Wire	Signal Name [Specification]
75		LG	DR DOOR REQ SW
76		LG	PASS DOOR REQ SW
77		P	DRIVER DOOR ANT+
78		V	DRIVER DOOR ANT-
79		V	PASS DOOR ANT+
80		Y	PASS DOOR ANT-
81		Y	REAR EMFR ANT+
82		W	REAR EMFR ANT-
83		LG	ROOM ANT 1+
84		BR	ROOM ANT 1-
85		GR	ROOM ANT 2+
86		G	ROOM ANT 2-
87		R	ROOM ANT 3+
88		V	ROOM ANT 3-
89		LG	LUGAGE ROOM ANT+
90		W	LUGAGE ROOM ANT-
91		V	ACC / ON IND
92		R	PUSH-BTN IGN SW ILL GND
93		GR	I-KEY WARM BUZZER
94		BR	ACC RELAY CONT
95		SB	STARTER RELAY CONT
96		P	IGN RELAY (PDM E/R) CONT
97		P	IGN RELAY (PDM E/R) CONT
98		P	PUSH SW
99		R	CLUTCH INTERLOCK SW
100		Y	NEUTRAL SW
101		L	CVT SHIF SELECT PWR SPLY
102		SB	530V PWR SWZ
103		V	530V PWR SWZ
104		Y	BLUR REAR GSKT

Connector No.	M71
Connector Name	HEATED SEAT RELAY
Connector Type	MS2FL-M2-LC



3	5	1
2	X	1

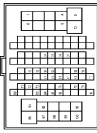
Terminal No.	Color	Wire	Signal Name [Specification]
1		B	-
2		LG	-
3		G	-
4		Y	-
5		V	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

IGNITION POWER SUPPLY

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	V	-
3	W	-
4	P	-
5	R	-
6	B	-
7	GR	-
8	SB	-
9	Y	-
10	R	-
11	LG	-
12	SB	-
13	B	-
14	P	-
15	R	-
16	L	-
17	SB	-
18	LG	-
19	G	-
20	GR	-
21	Y	-
22	V	-
23	R	-
24	V	-
25	GR	-
26	G	-
27	W	-
28	LG	-
29	V	-
30	LG	-
31	P	-
32	C	-
33	R	-
34	BR	-
35	LG	-
36	SHELD	-
37	Y	-
38	BR	-

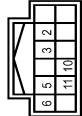
95	R	- [Without Intelligent Key]
96	L	- [With Intelligent Key]
97	GR	-
98	G	-
99	W	-
100	LG	-

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	LU20B-MC



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

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH12PW-IM1



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	-
3	R	-
4	BR	-
5	V	-
6	LG	-
7	LG	-
8	BR	-
9	V	-
10	V	-
11	LG	-

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	MO8PW-LC



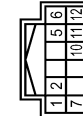
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LS	-
2	B	-
3	Y	-
4	Y	-

Connector No.	M89
Connector Name	WIRE TO WIRE
Connector Type	MO8PW-LC



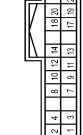
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-

Connector No.	M90
Connector Name	MULTI DISPLAY UNIT
Connector Type	TH80PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BAT
2	Y	BAT
3	GR	ILL CONT
4	GR	ILL CONT
5	GR	CAN-H
6	Y	IGN
7	SB	IGN
8	B	GND
9	B	GND
10	B	GND
11	B	GND
12	P	CAN-L

Connector No.	IM27
Connector Name	TEL ADAPTER UNIT
Connector Type	TH80PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BATTERY
2	L	ACC
3	SB	IGNITION
4	B	GND
5	G	MICROPHONE SIGNAL
6	SHLD	MICROPHONE SIGNAL GND
7	BR	SOUND SIGNAL (+)
8	GR	SOUND SIGNAL (-)
9	Y	TEL ON SIGNAL
10	Y	STRG SW A
11	G	STRG SW B
12	R	STRG SW B
13	R	STRG SW B
14	V	STRG SW GND

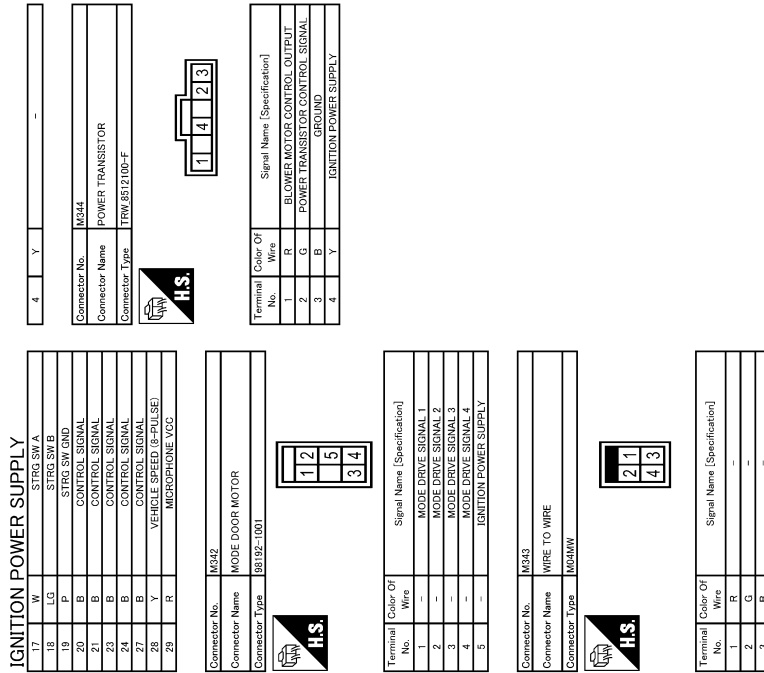
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

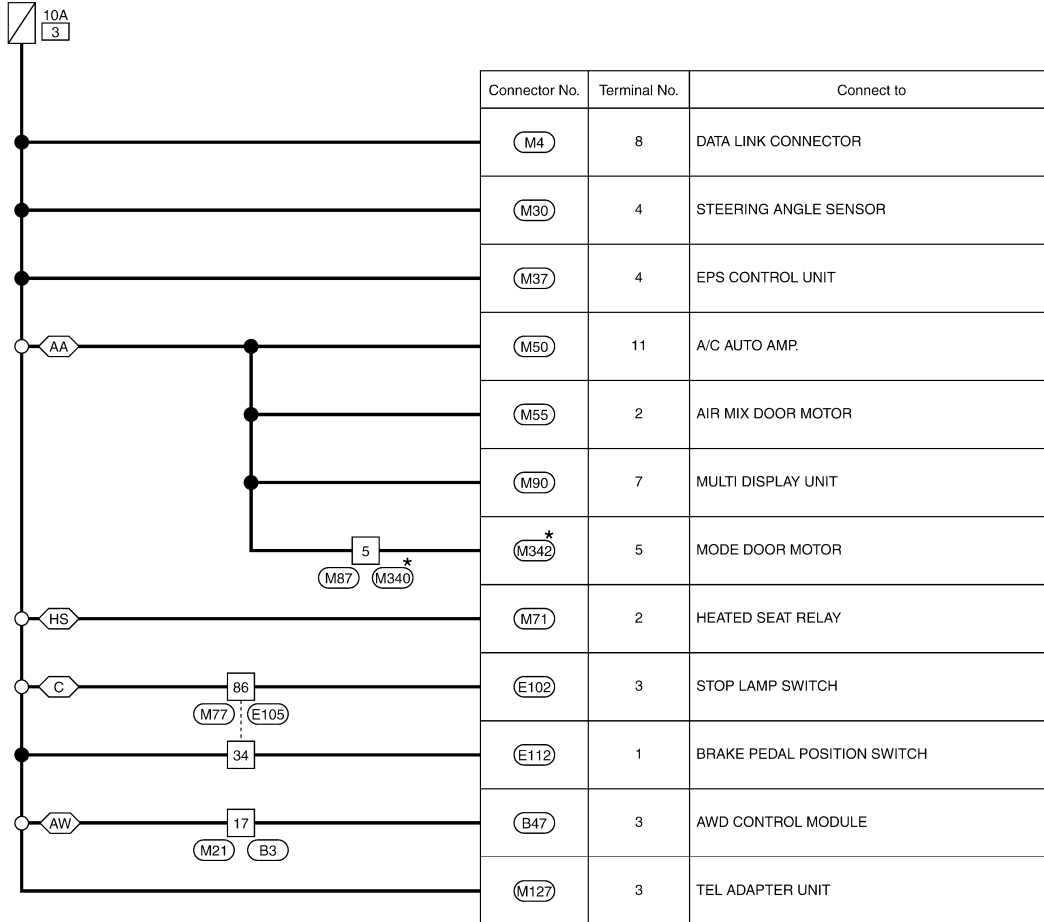
< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No.3 -

INFOID:000000009750000

IGNITION POWER SUPPLY FUSE No. 3

-  : AWD models
-  : With CVT
-  : With auto A/C
-  : With heated seat



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

2011/08/18

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POWER SUPPLY ROUTING CIRCUIT

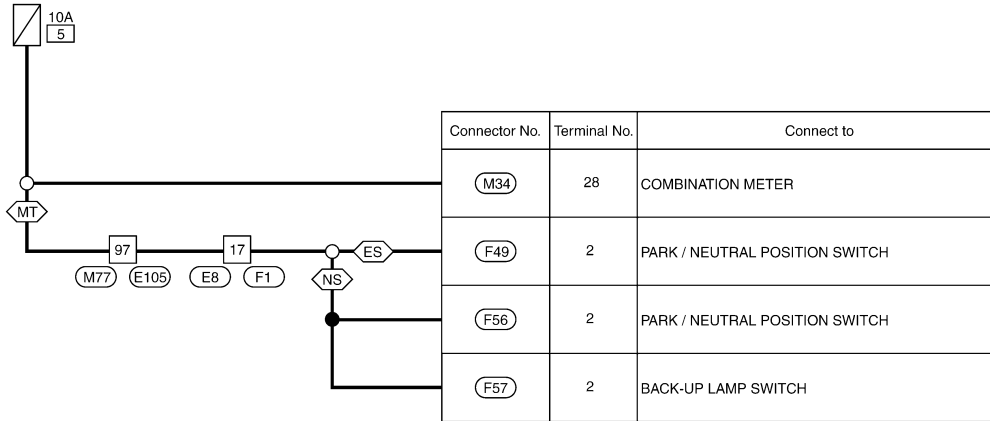
< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No.5 -

INFOID:000000010304070

IGNITION POWER SUPPLY FUSE No. 5

-  : With M/T
-  : Except for NISMO models
-  : For NISMO models



2013/10/01

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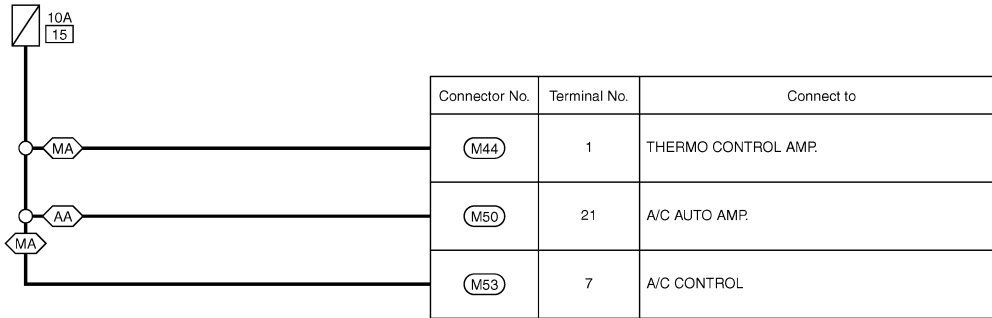
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No.15 - IGNITION POWER SUPPLY FUSE No. 15

INFOID:000000009750001

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



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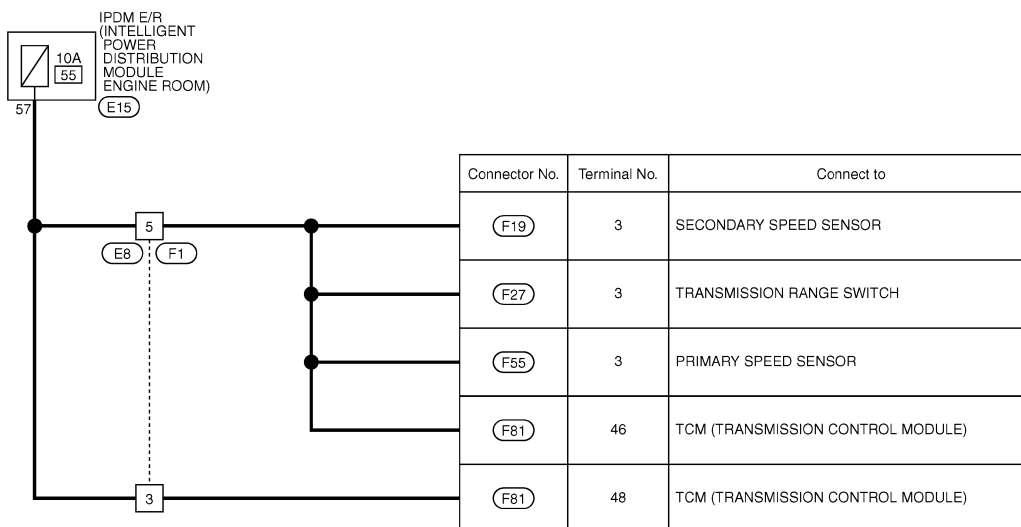
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No.55 -

INFOID:000000009750002

IGNITION POWER SUPPLY FUSE No. 55



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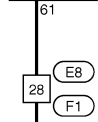
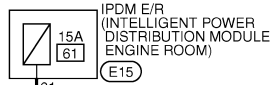
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No.61 -

INFOID:000000009750003

IGNITION POWER SUPPLY FUSE No. 61



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

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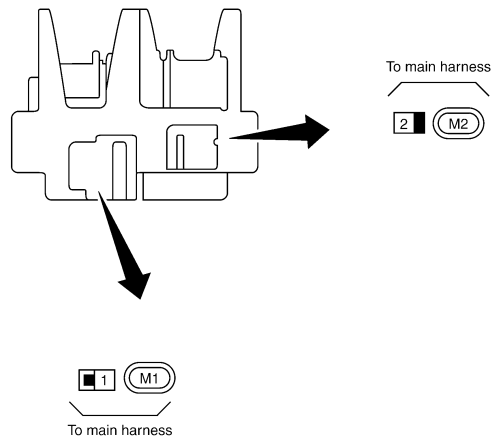
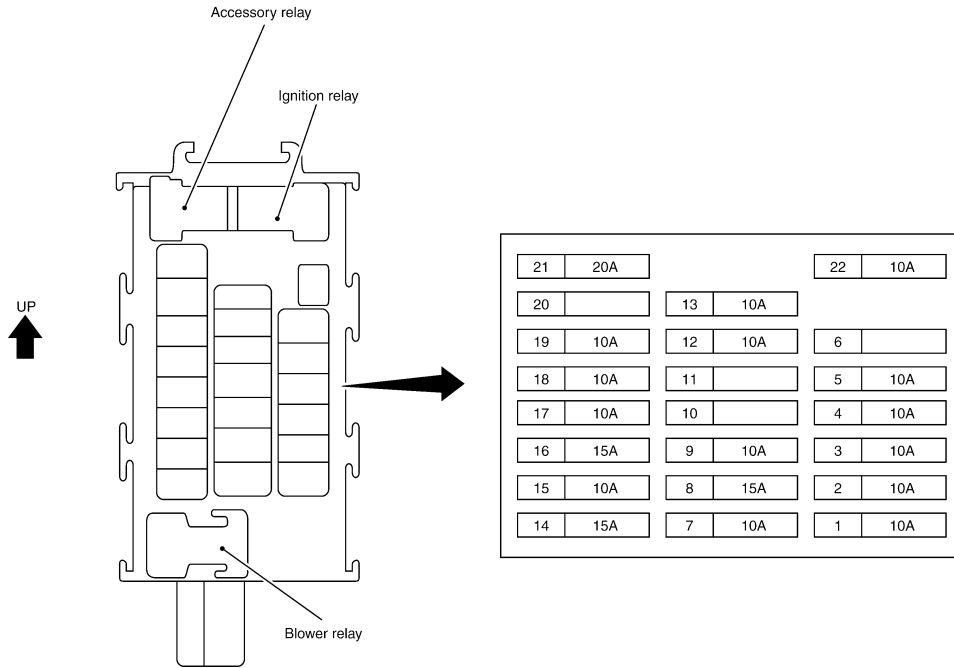
FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:000000009750004



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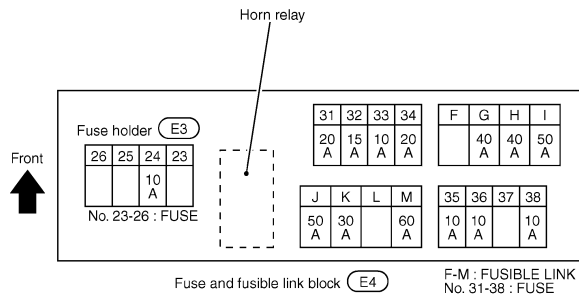
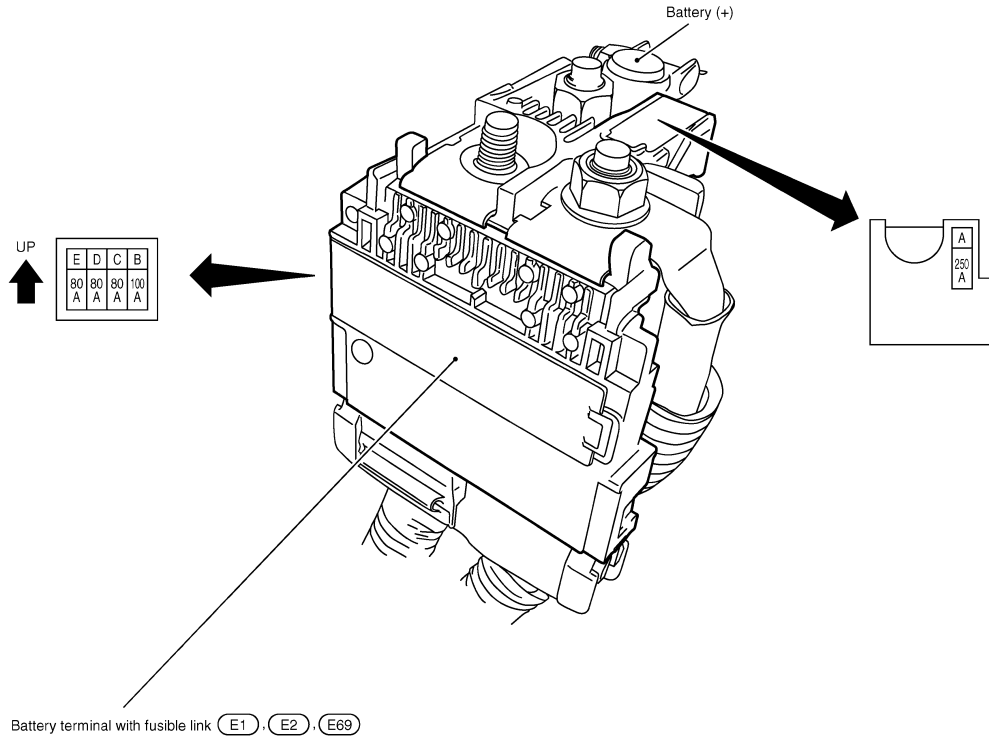
FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement

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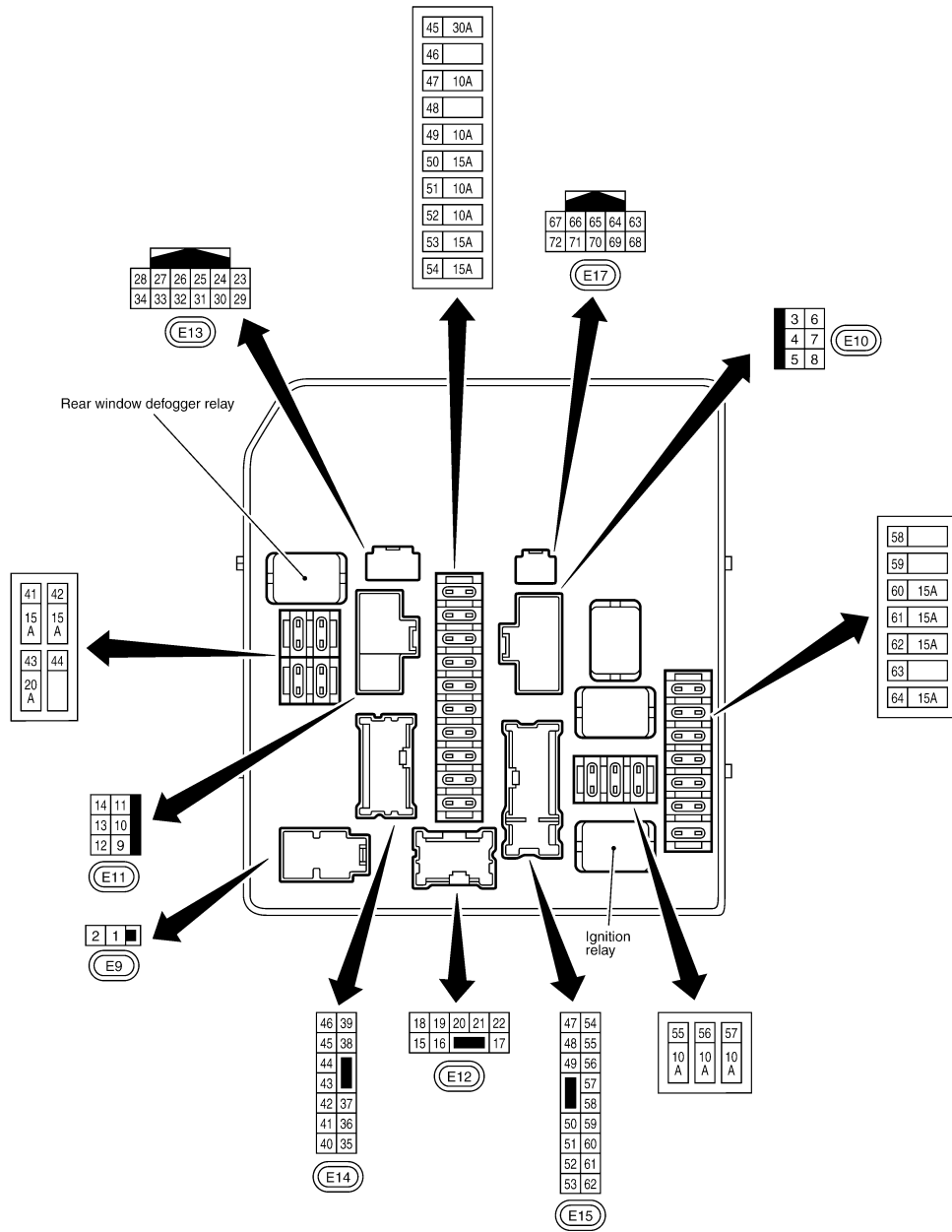
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

Fuse, Connector and Terminal Arrangement

INFOID:000000009750006



To engine room harness

2013/10/01

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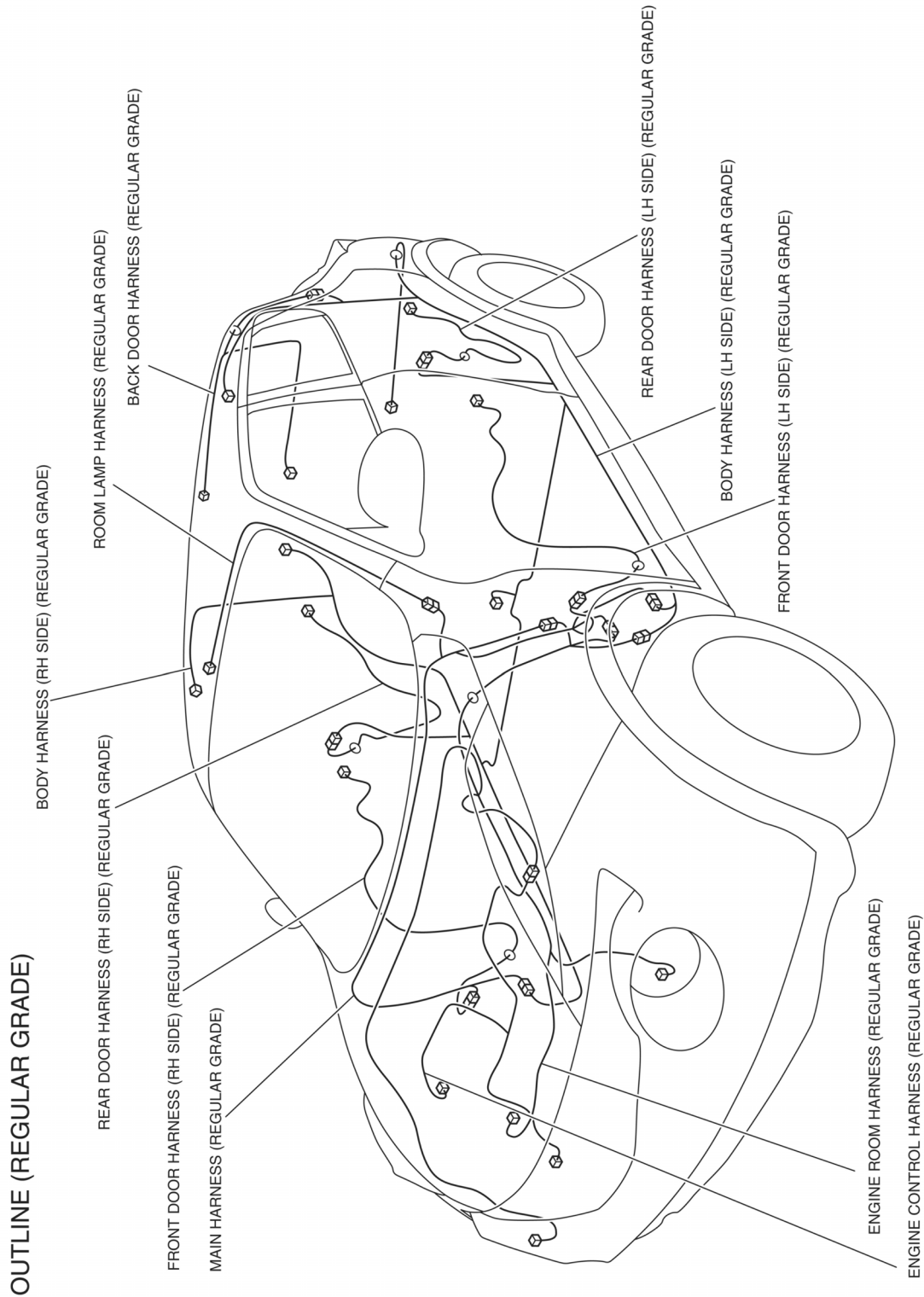
HARNESS LAYOUT

< WIRING DIAGRAM >

HARNESS LAYOUT REGULAR GRADE

REGULAR GRADE : Outline

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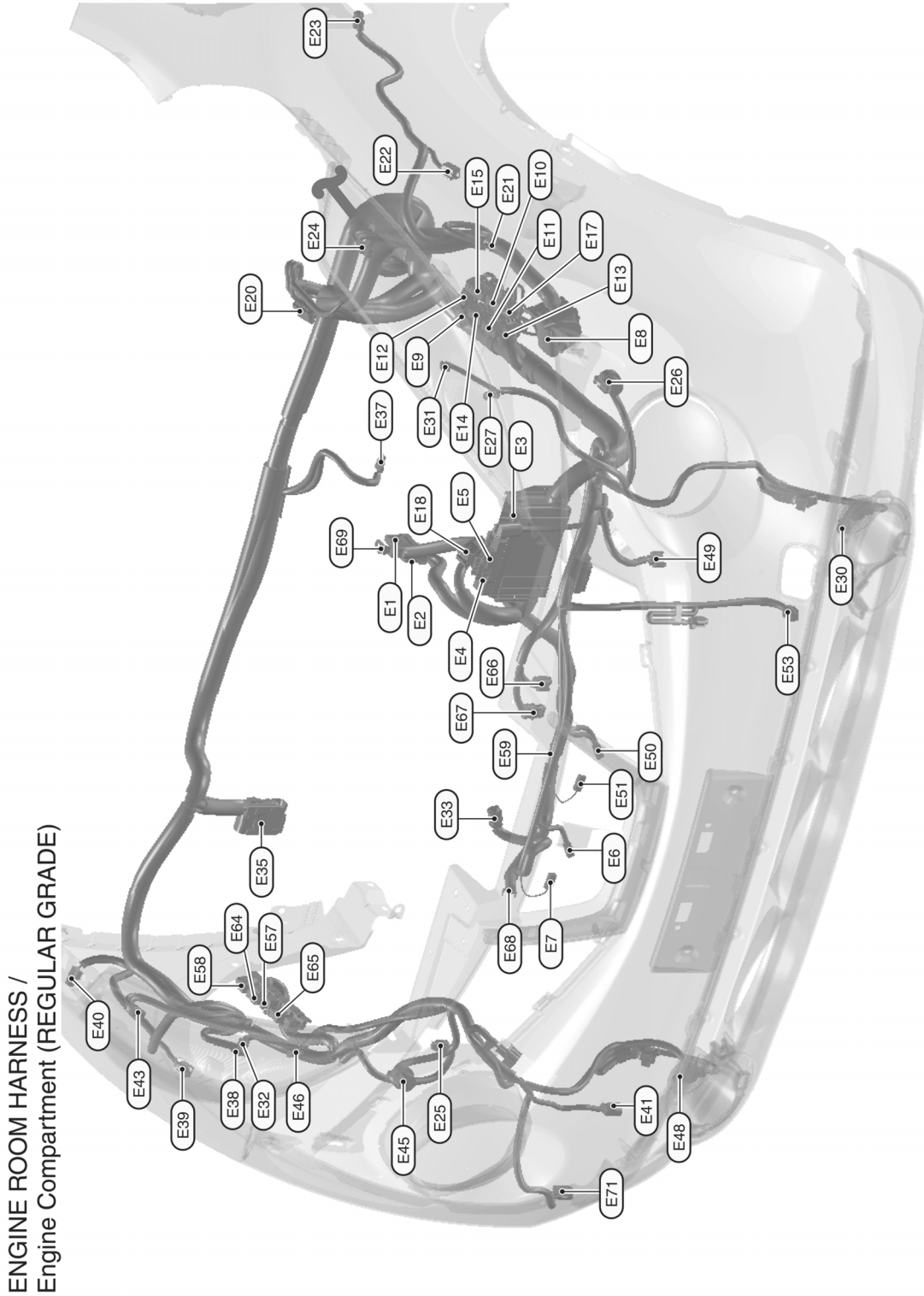
HARNESS LAYOUT

< WIRING DIAGRAM >

REGULAR GRADE : Engine Room Harness

INFOID:00000009750009

ENGINE COMPARTMENT



ENGINE ROOM HARNESS /
Engine Compartment (REGULAR GRADE)

2013/10/01

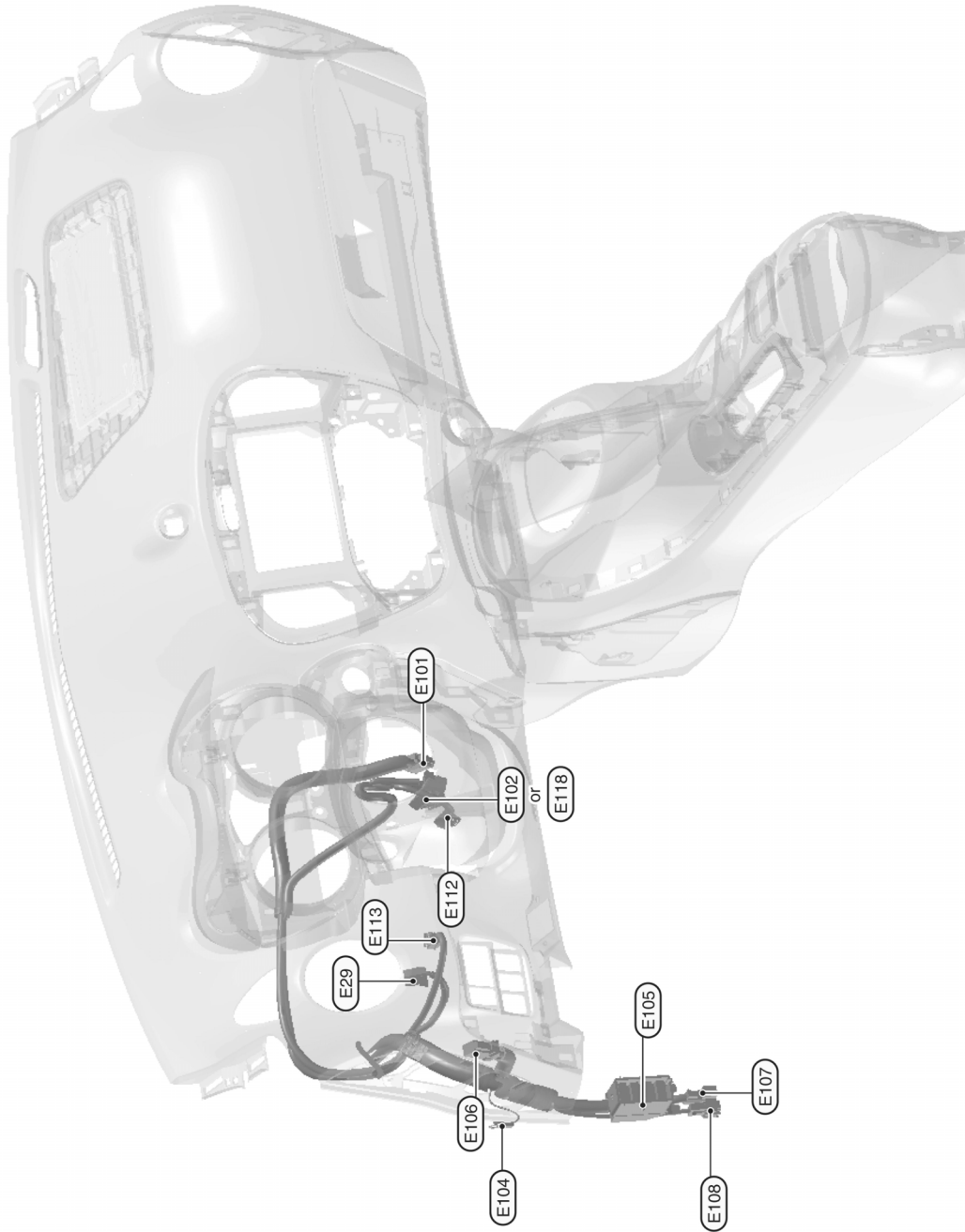
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HARNES LAYOUT

< WIRING DIAGRAM >

PASSENGER COMPARTMENT

Passenger Compartment (REGULAR GRADE)



2013/10/01

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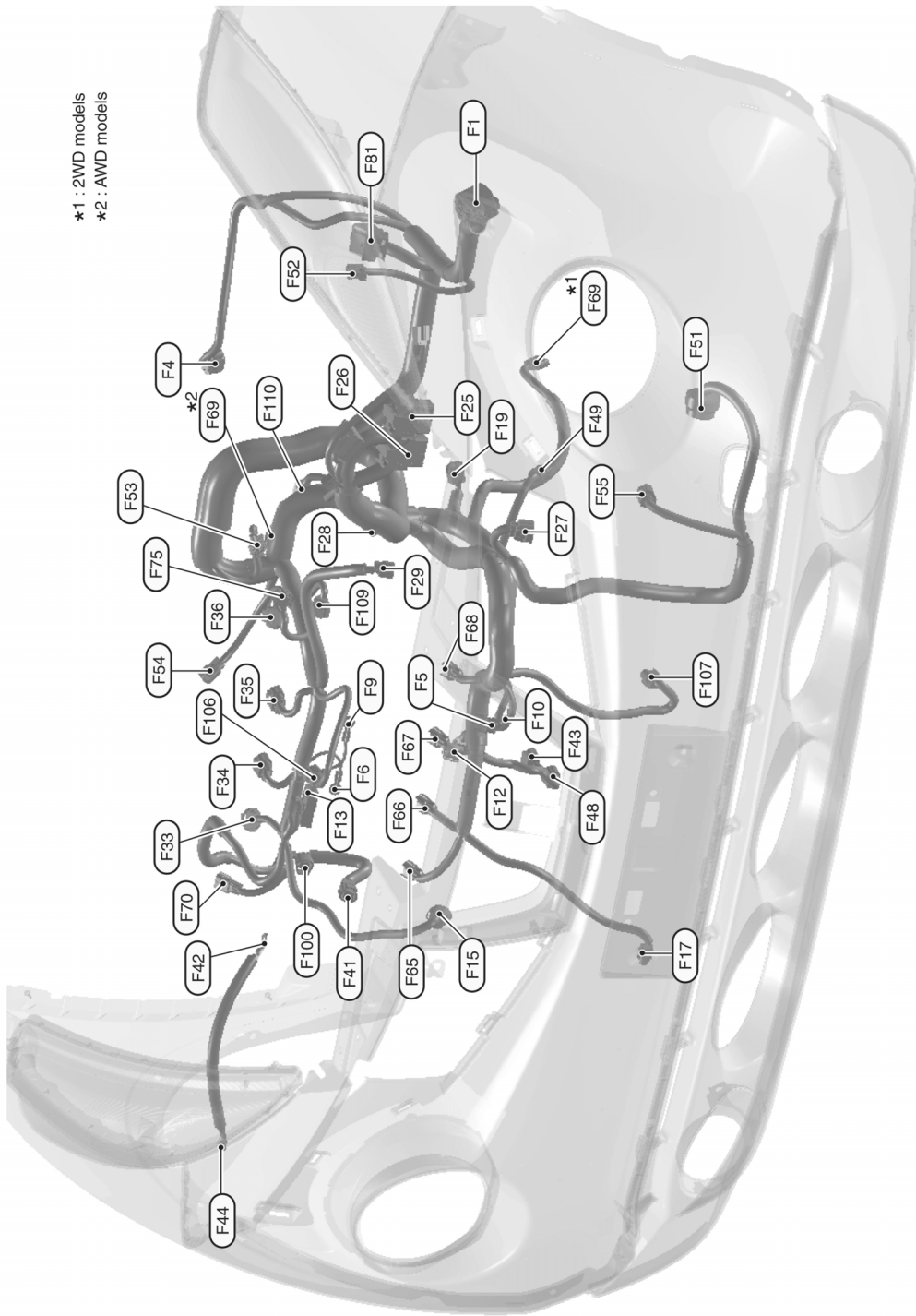
HARNESS LAYOUT

< WIRING DIAGRAM >

REGULAR GRADE : Engine Control Harness

INFOID:00000009750010

ENGINE CONTROL HARNESS (REGULAR GRADE)



*1 : 2WD models
*2 : AWD models

2013/10/01

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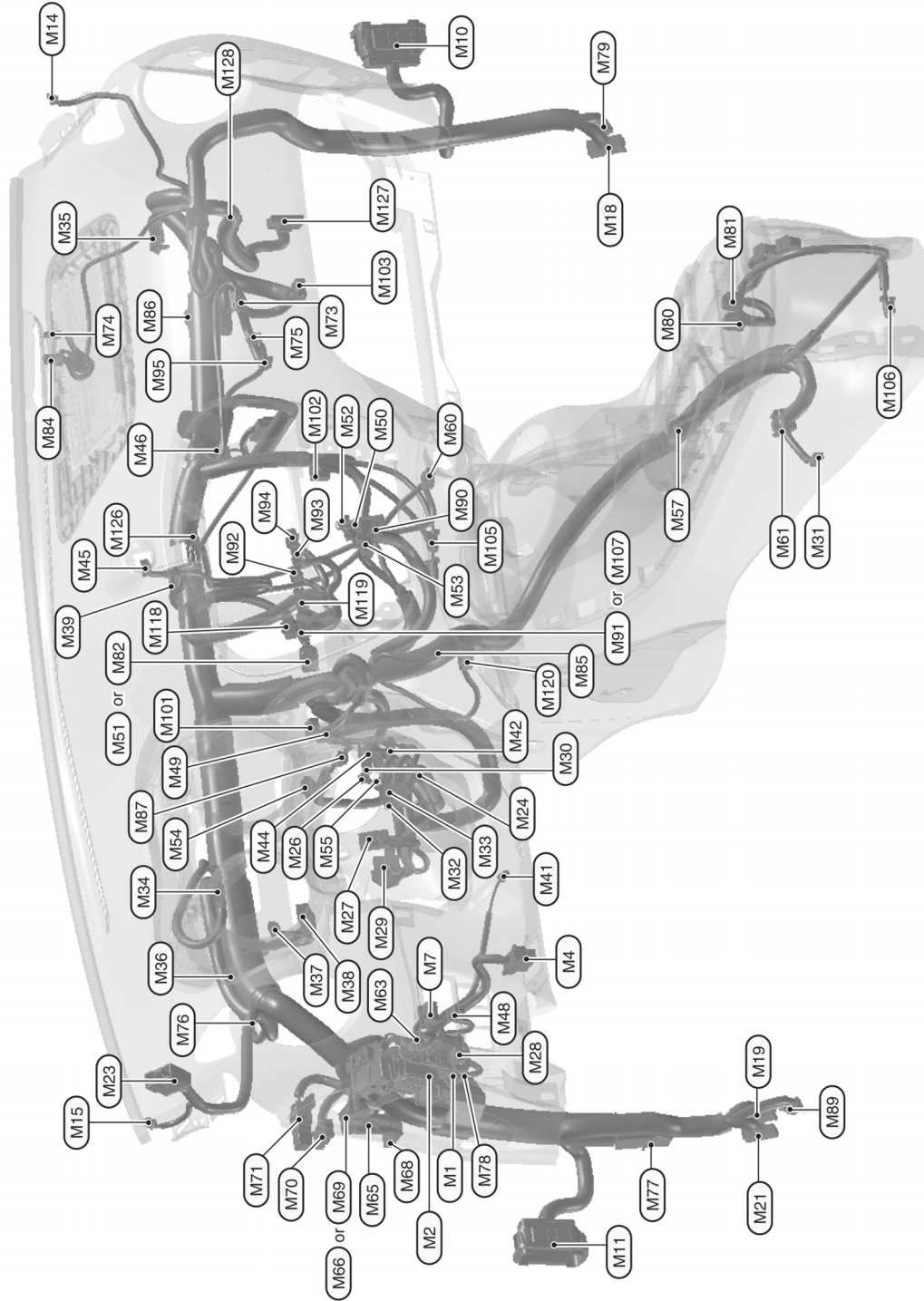
HARNES LAYOUT

< WIRING DIAGRAM >

REGULAR GRADE : Main Harness

INFOID:000000009750011

MAIN HARNESS (REGULAR GRADE)



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HARNES LAYOUT

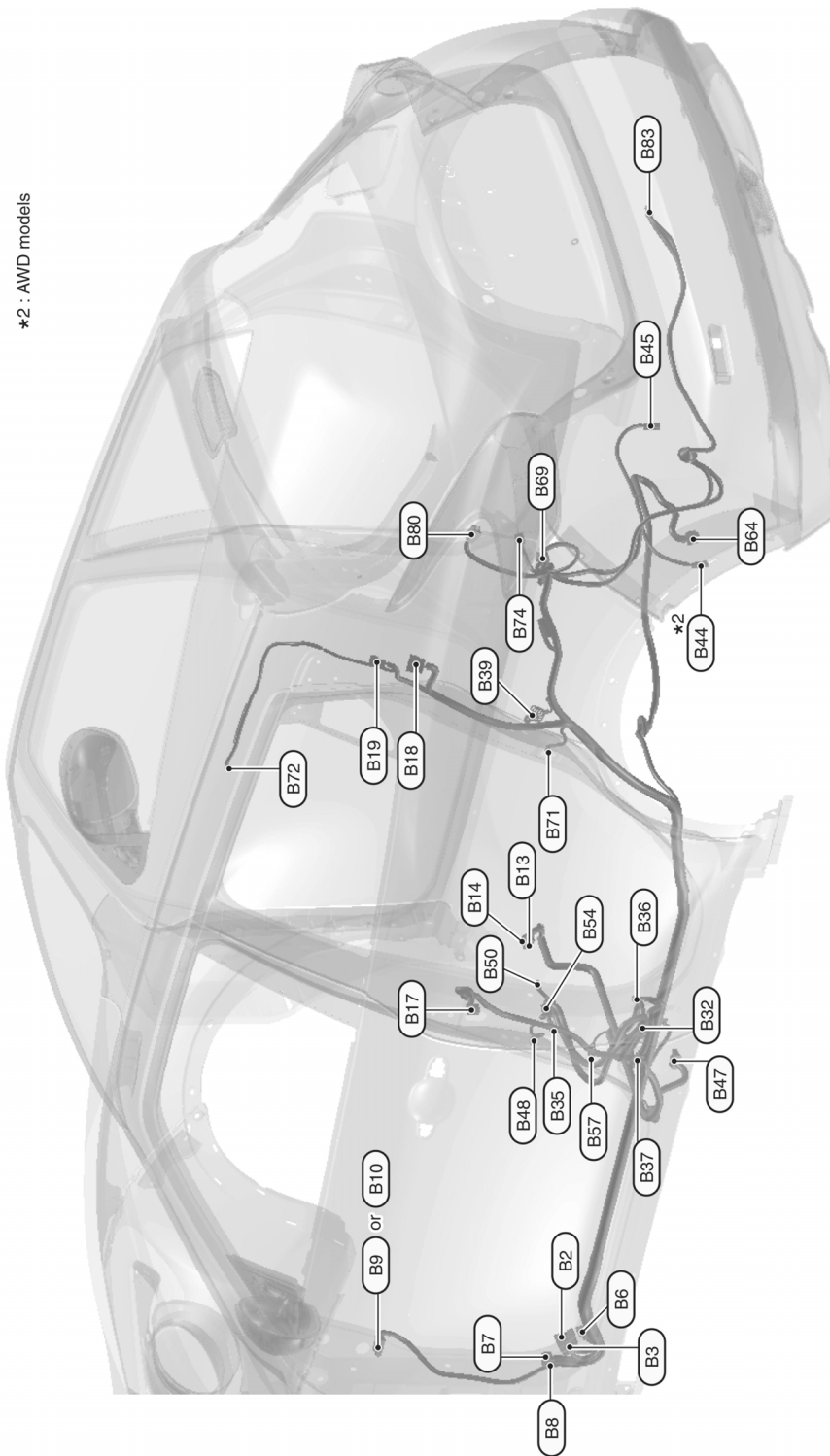
< WIRING DIAGRAM >

REGULAR GRADE : Body Harness

INFOID:00000009750012

LH SIDE

BODY HARNESS (LH SIDE) (REGULAR GRADE)



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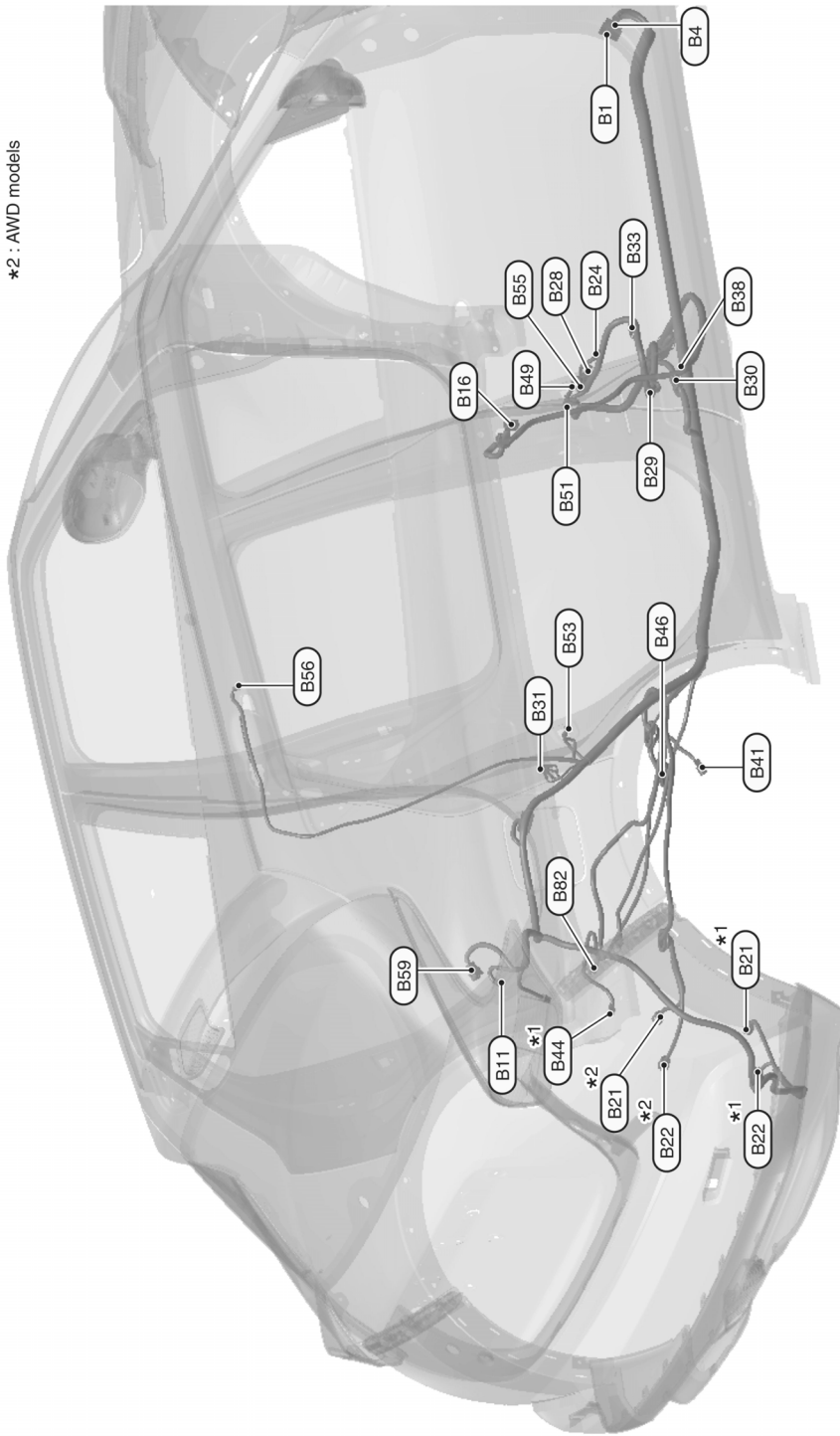
HARNES LAYOUT

< WIRING DIAGRAM >

RH SIDE

BODY HARNESS (RH SIDE) (REGULAR GRADE)

*1 : 2WD models
*2 : AWD models



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HARNESS LAYOUT

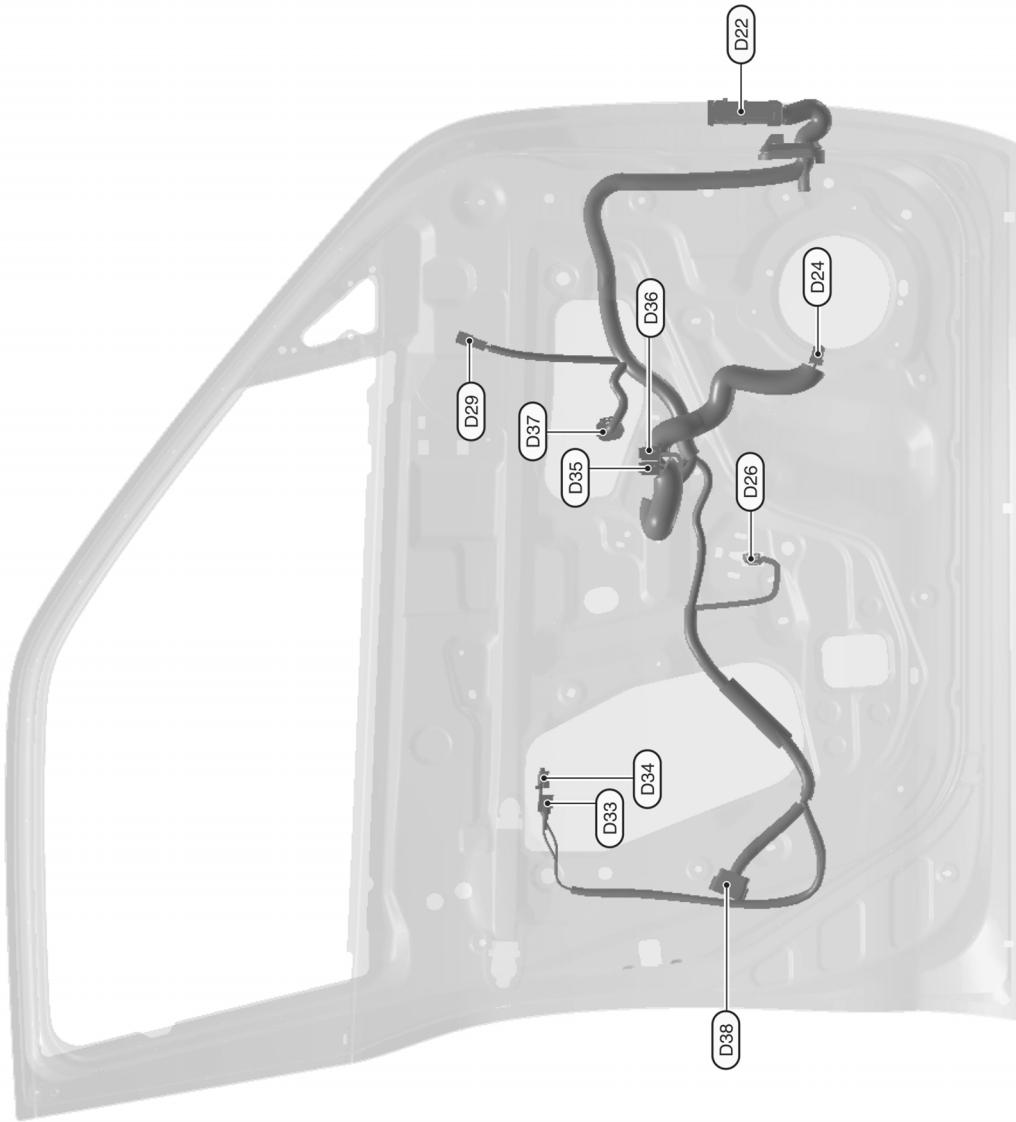
< WIRING DIAGRAM >

REGULAR GRADE : Door Harness

INFOID:00000009750013

FRONT DOOR HARNESS (LH SIDE)

FRONT DOOR HARNESS (LH SIDE) (REGULAR GRADE)



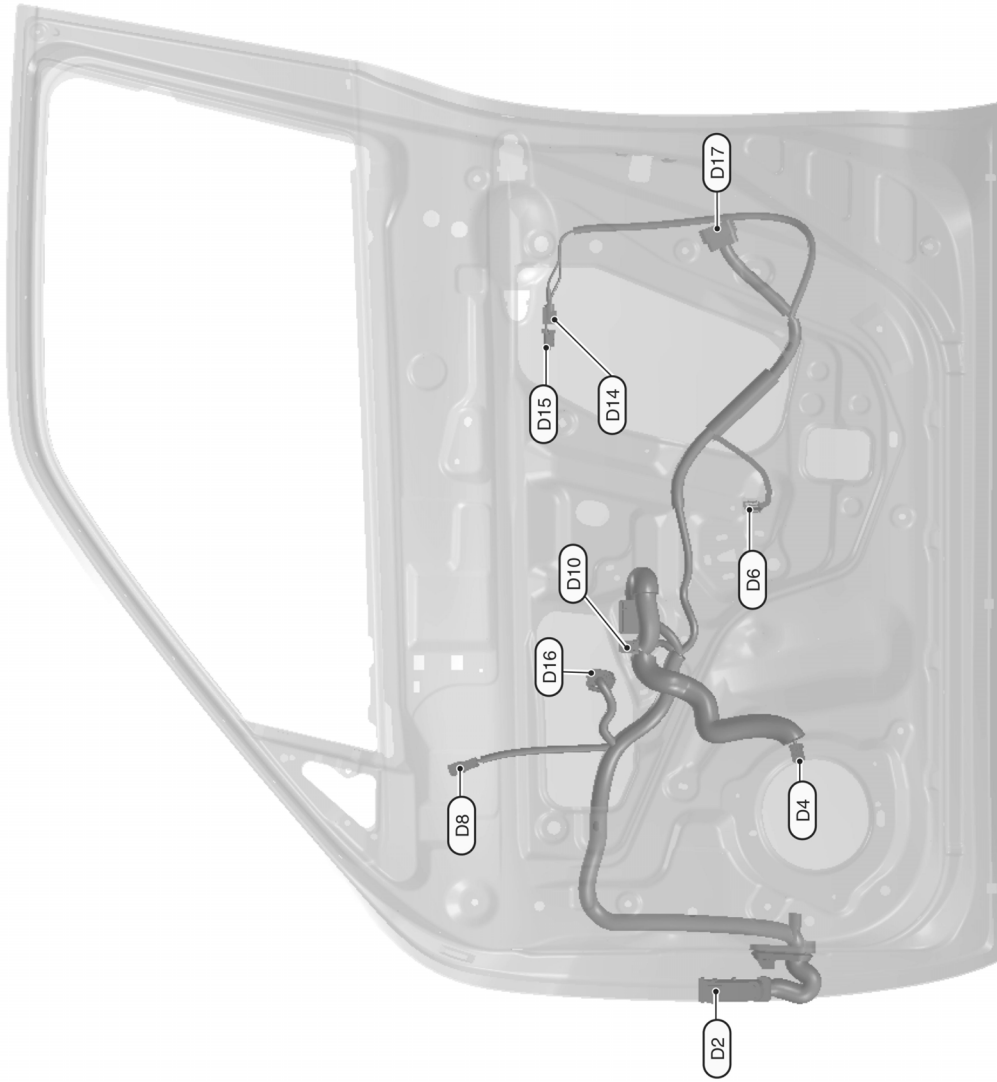
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HARNES LAYOUT

< WIRING DIAGRAM >

FRONT DOOR HARNESS (RH SIDE)

FRONT DOOR HARNESS (RH SIDE) (REGULAR GRADE)



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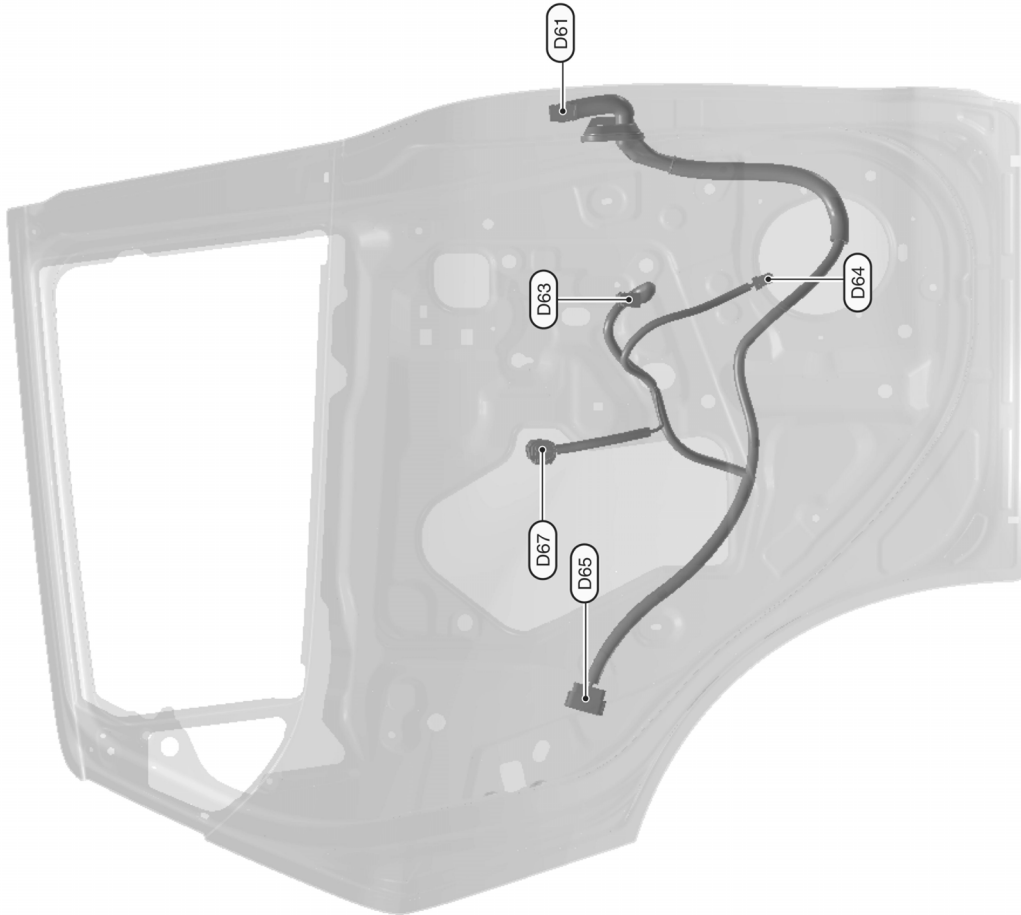
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HARNES LAYOUT

< WIRING DIAGRAM >

REAR DOOR HARNESS (LH SIDE)

REAR DOOR HARNESS (LH SIDE) (REGULAR GRADE)



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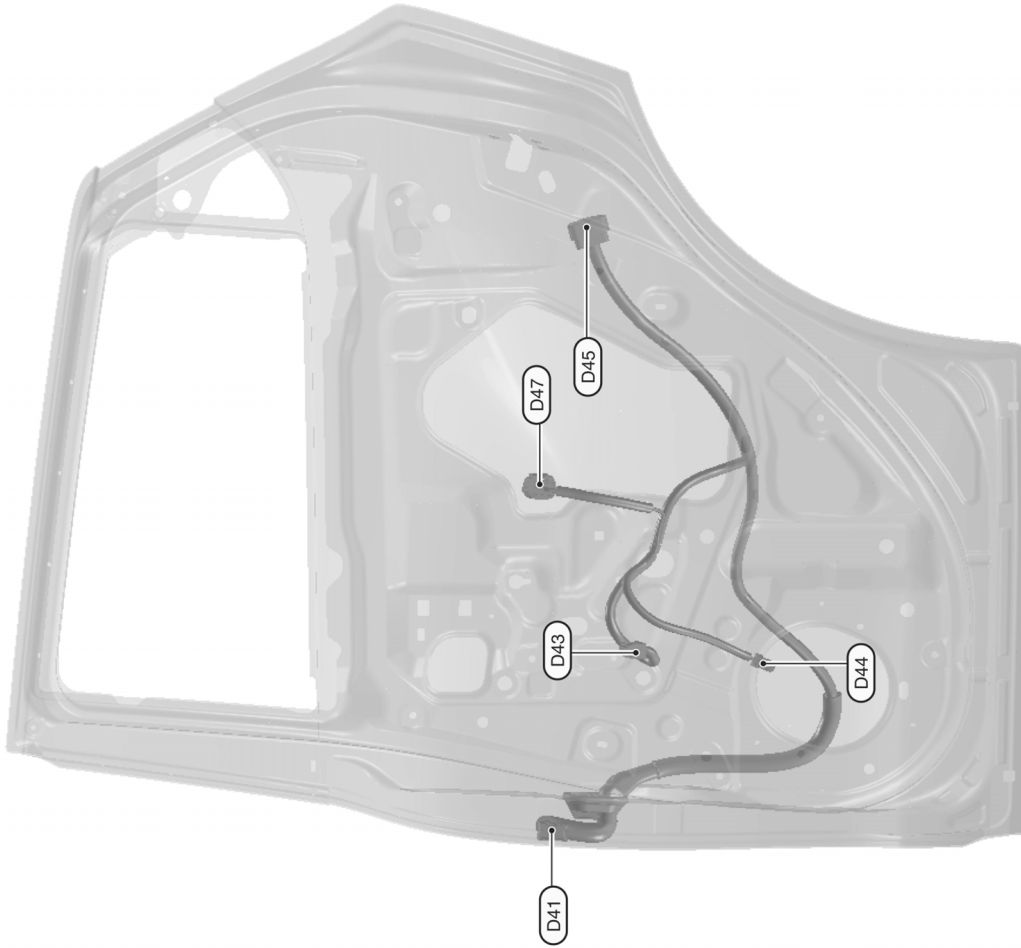
2013/10/01

HARNES LAYOUT

< WIRING DIAGRAM >

REAR DOOR HARNESS (RH SIDE)

REAR DOOR HARNESS (RH SIDE) (REGULAR GRADE)



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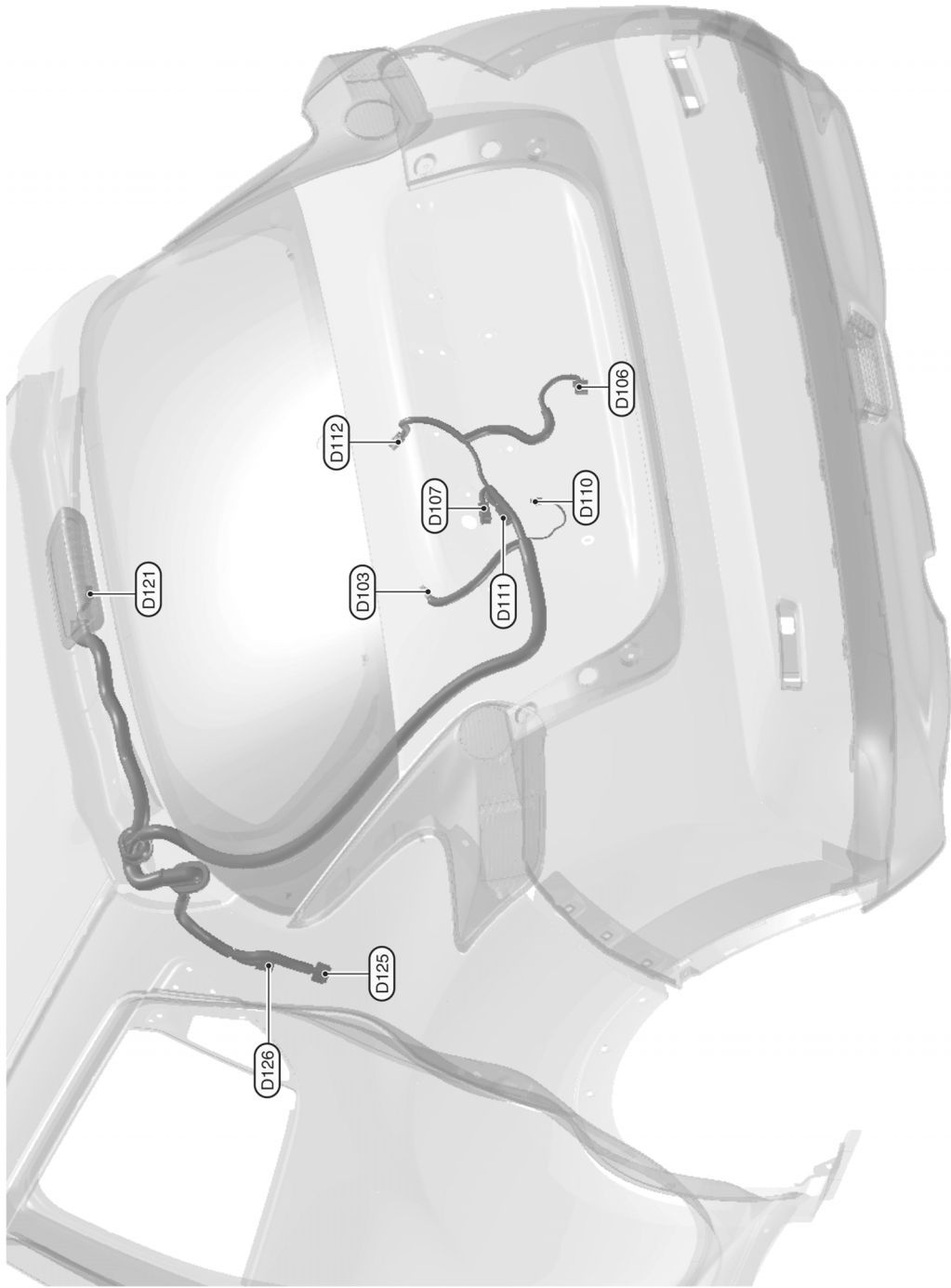
JRMIC3955GB
2013/10/01

HARNES LAYOUT

< WIRING DIAGRAM >

BACK DOOR HARNES

BACK DOOR HARNES (REGULAR GRADE)



2013/10/01

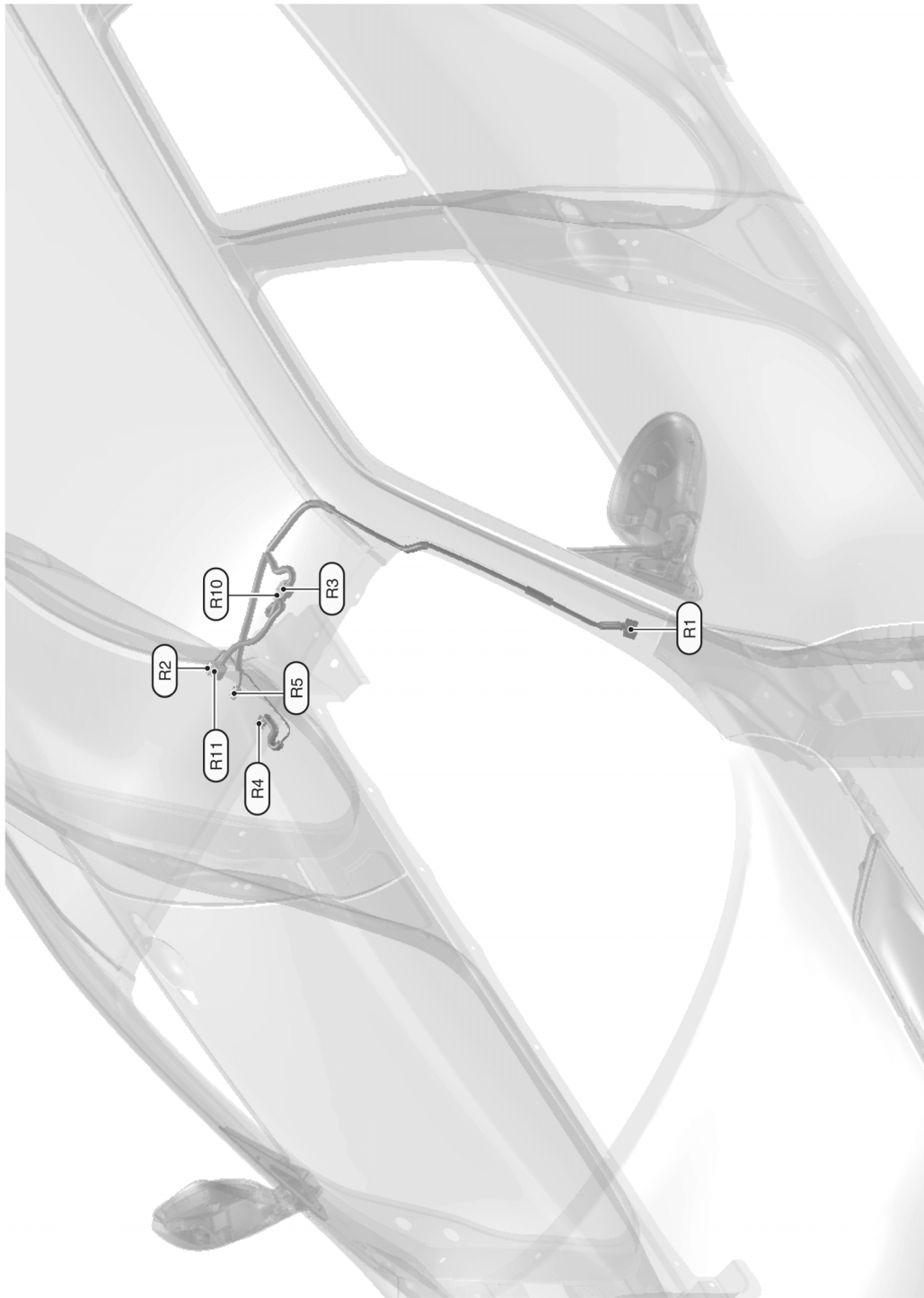
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HARNES LAYOUT

< WIRING DIAGRAM >

REGULAR GRADE : Room Lamp Harness

INFOID:000000009750014



ROOM LAMP HARNESS (REGULAR GRADE)

NISMO

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2013/10/01

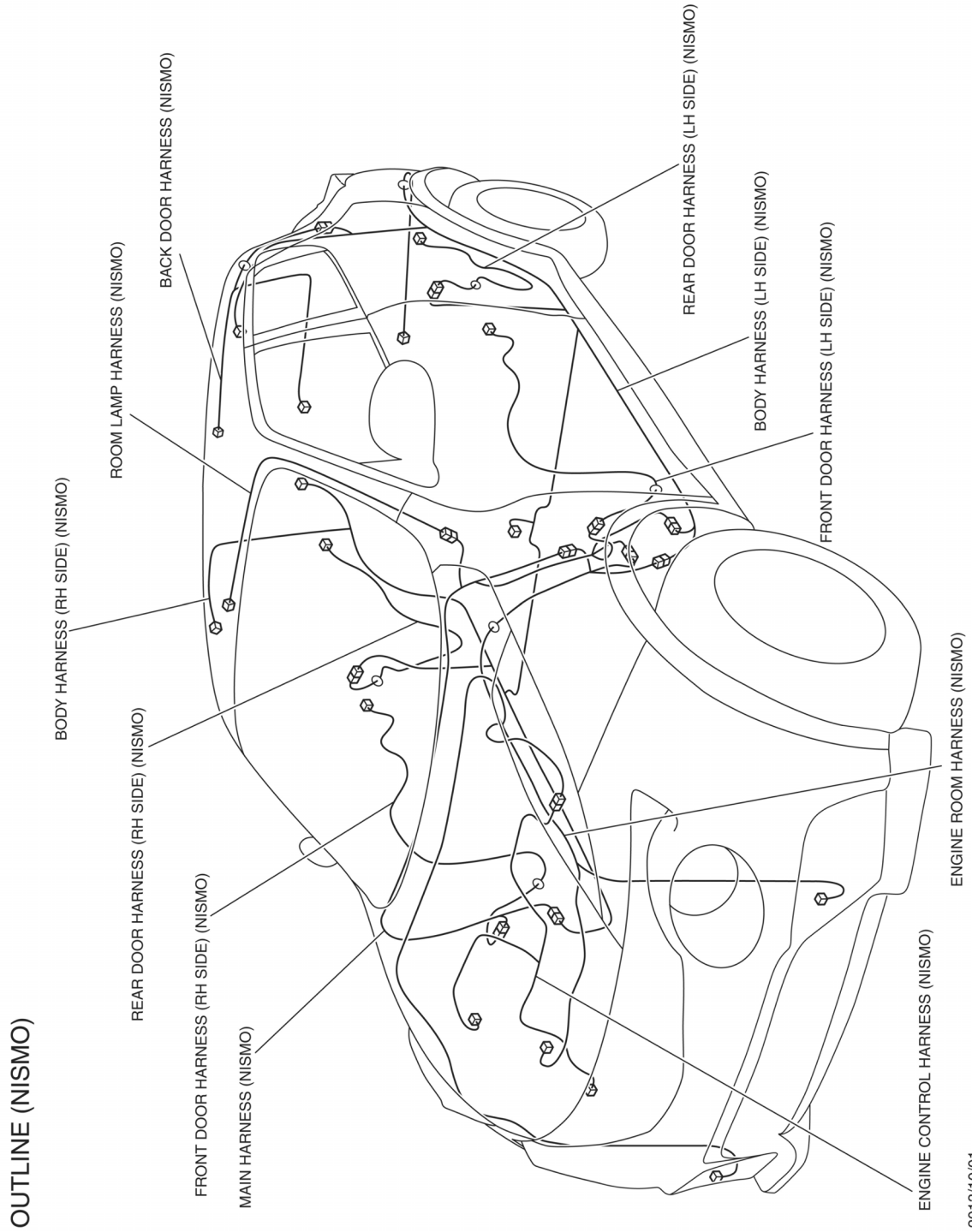
JRMIC3957GB

HARNES LAYOUT

< WIRING DIAGRAM >

NISMO : Outline

INFOID:000000010325840



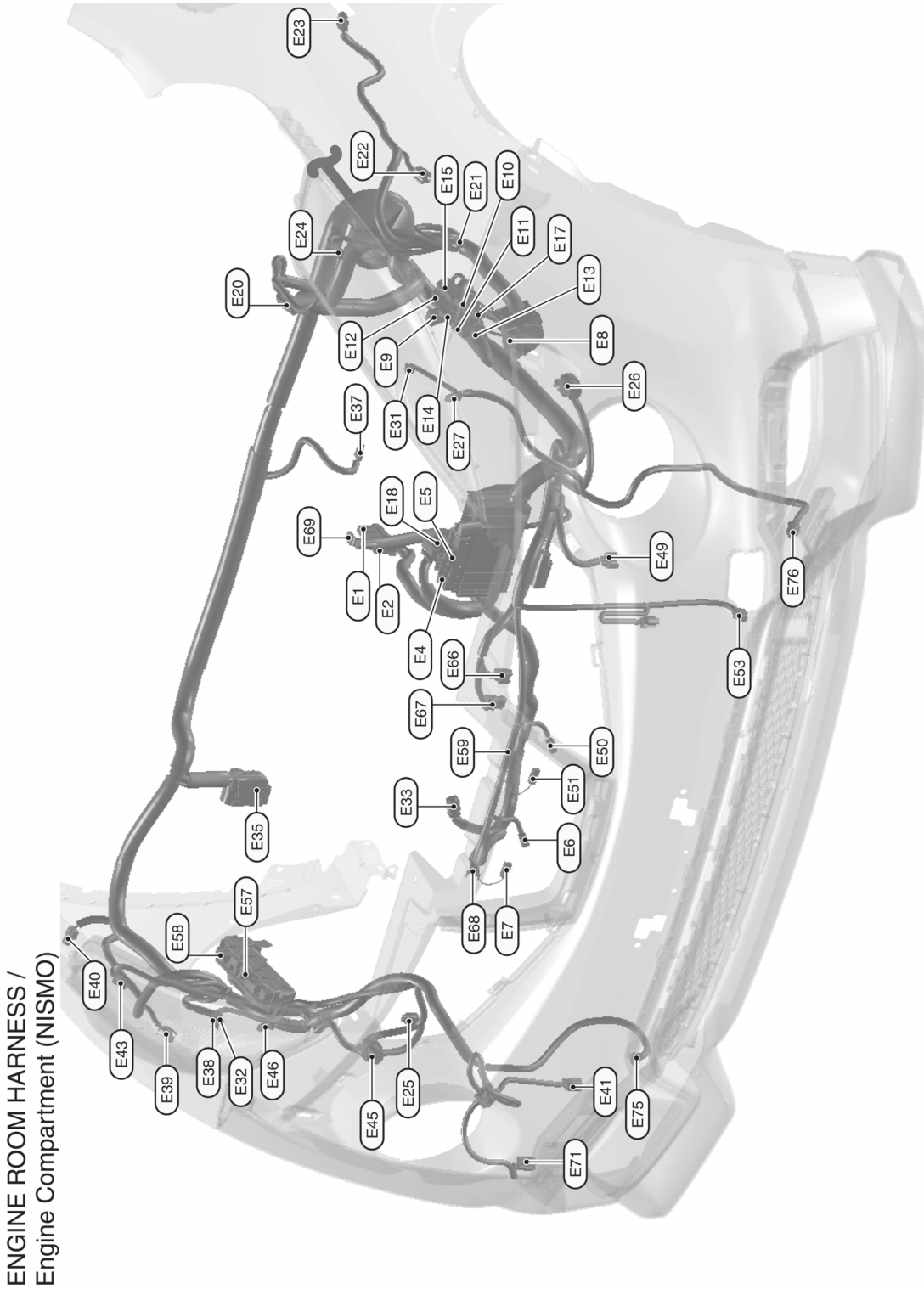
HARNESS LAYOUT

< WIRING DIAGRAM >

NISMO : Engine Room Harness

INFOID:000000010325841

ENGINE COMPARTMENT



ENGINE ROOM HARNESS /
Engine Compartment (NISMO)

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2013/10/01

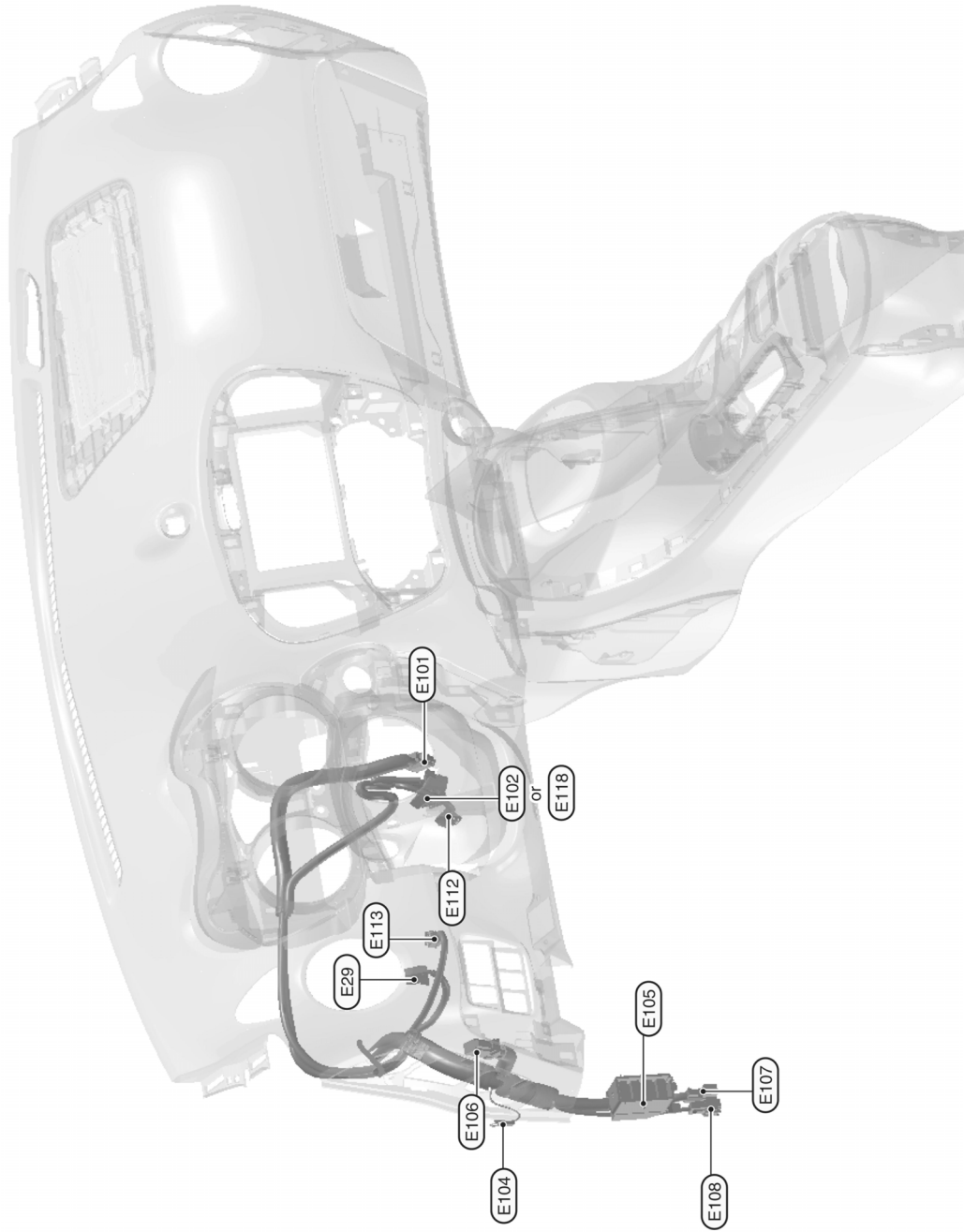
JRMIC3959GB

HARNESS LAYOUT

< WIRING DIAGRAM >

PASSENGER COMPARTMENT

Passenger Compartment (NISMO)



JRMIC3960GB

2013/10/01

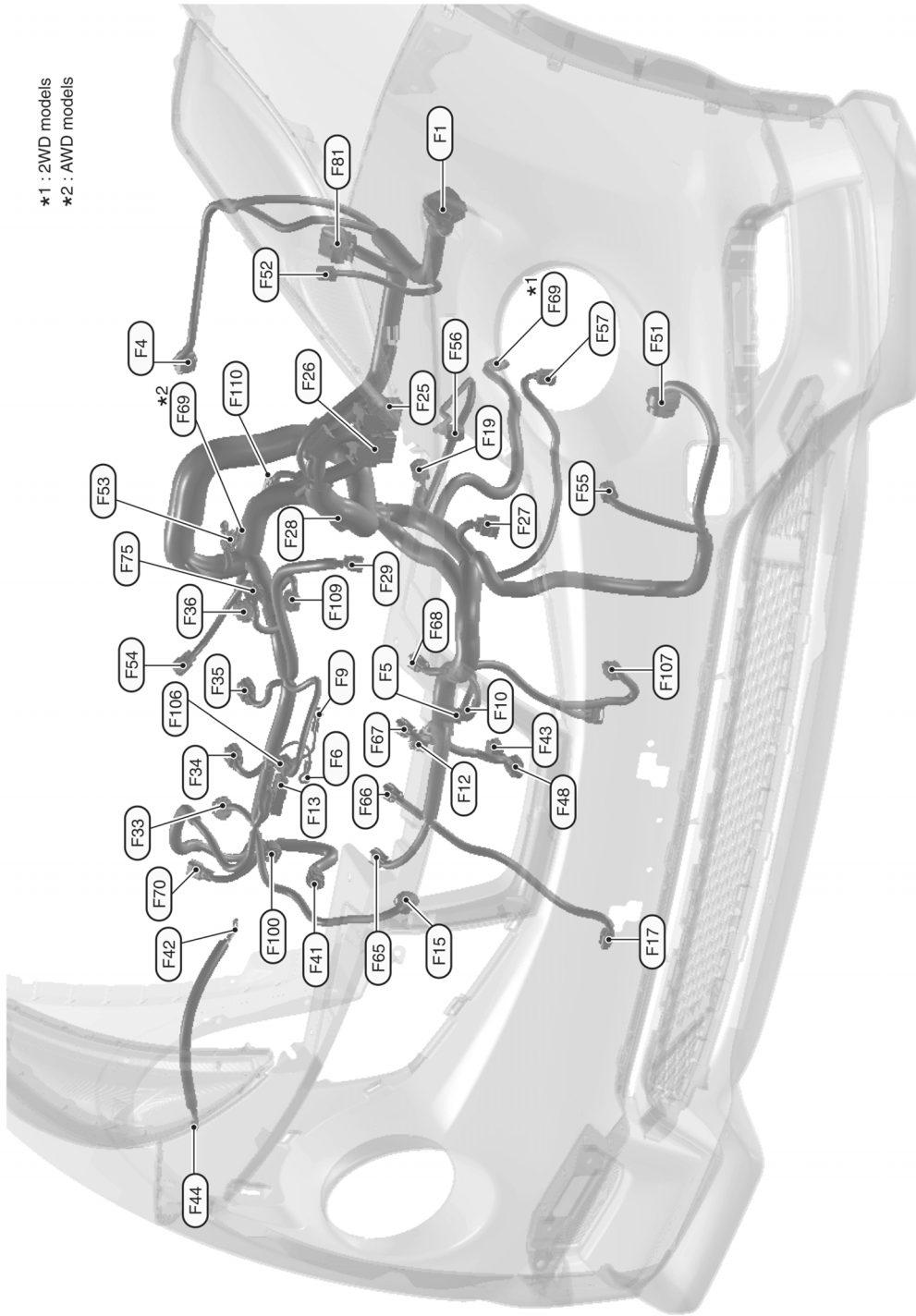
HARNESS LAYOUT

< WIRING DIAGRAM >

NISMO : Engine Control Harness

INFOID:0000000110325842

ENGINE CONTROL HARNESS (NISMO)



*1 : 2WD models
*2 : AWD models

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2013/10/01

JRMIC3961GB

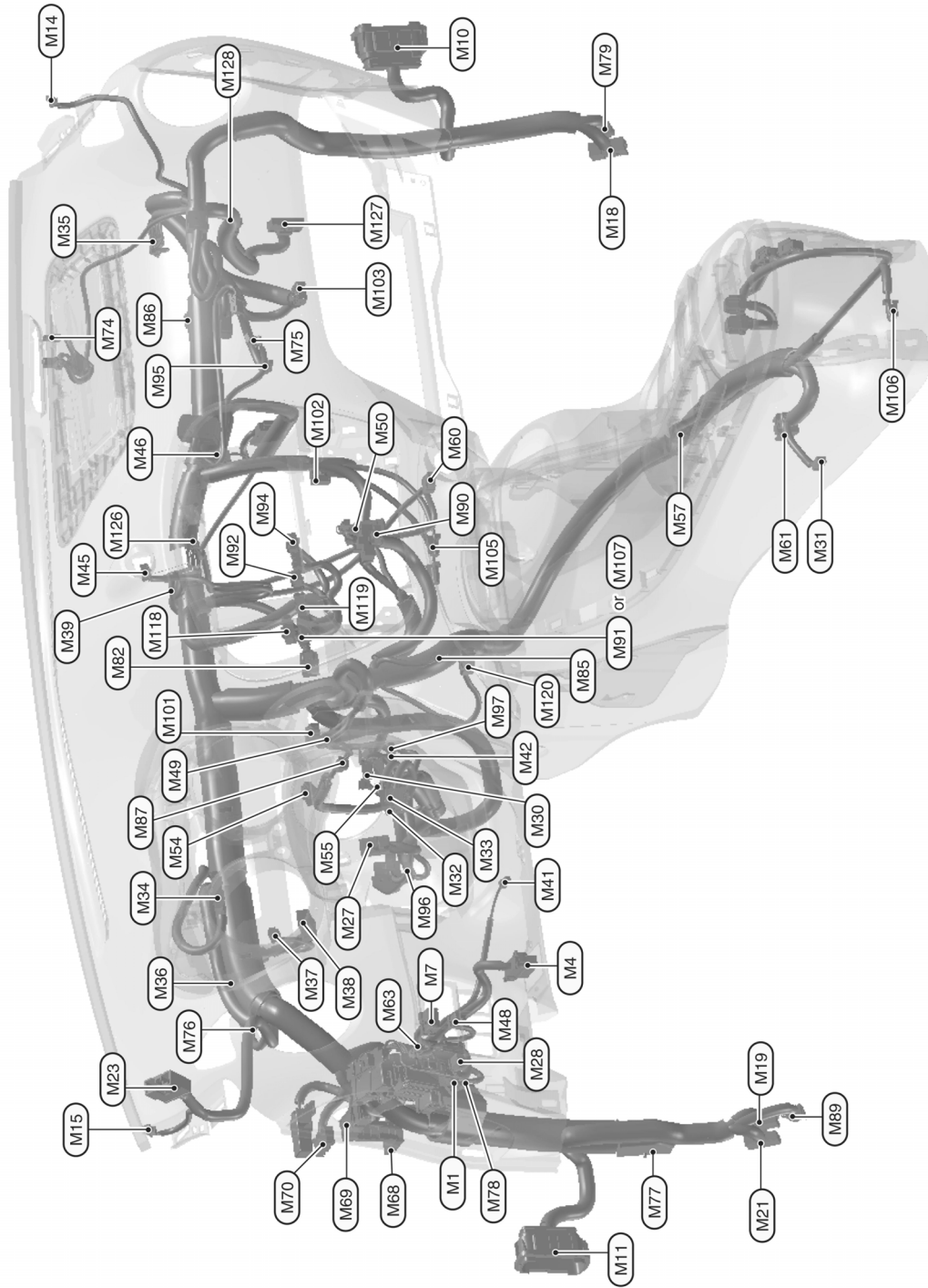
HARNESS LAYOUT

< WIRING DIAGRAM >

NISMO : Main Harness

INFOID:000000010325843

MAIN HARNESS (NISMO)



2013/10/01

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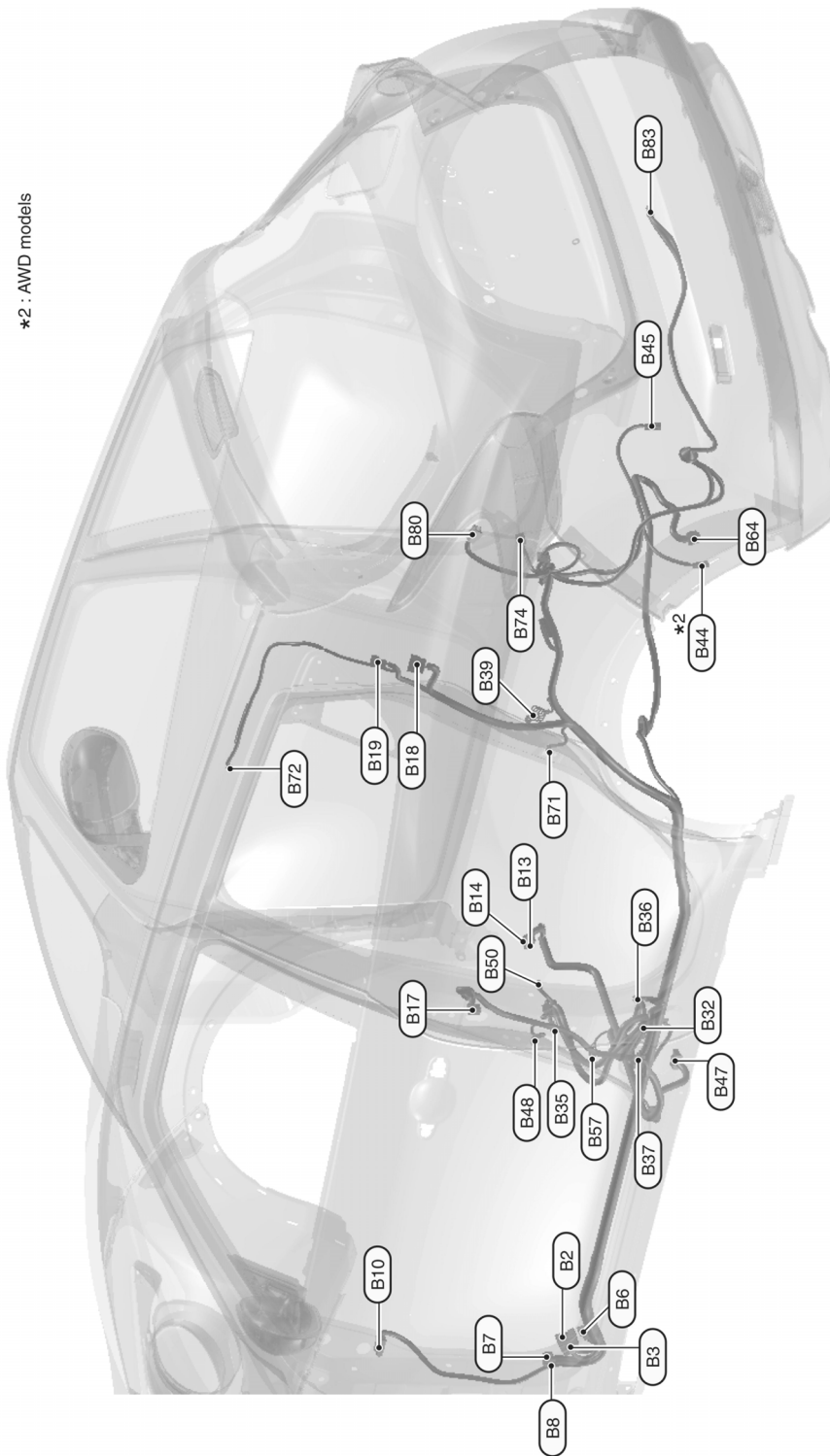
HARNES LAYOUT

< WIRING DIAGRAM >

NISMO : Body Harness

INFOID:000000010325844

LH SIDE



BODY HARNESS (LH SIDE) (NISMO)

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2013/10/01

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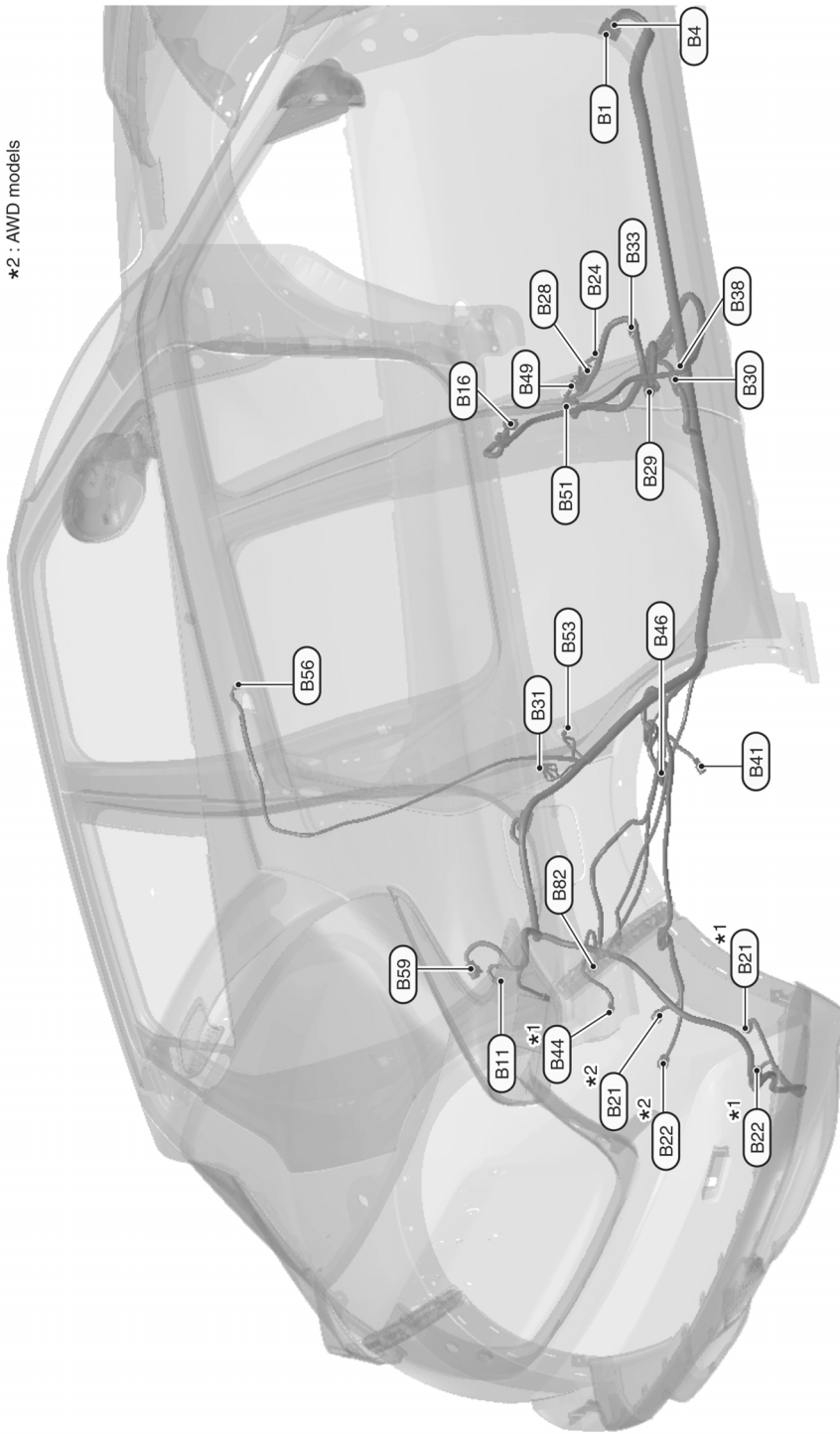
HARNES LAYOUT

< WIRING DIAGRAM >

RH SIDE

BODY HARNESS (RH SIDE) (NISMO)

*1 : 2WD models
*2 : AWD models



JRMIC3964GB
2013/10/01

HARNESS LAYOUT

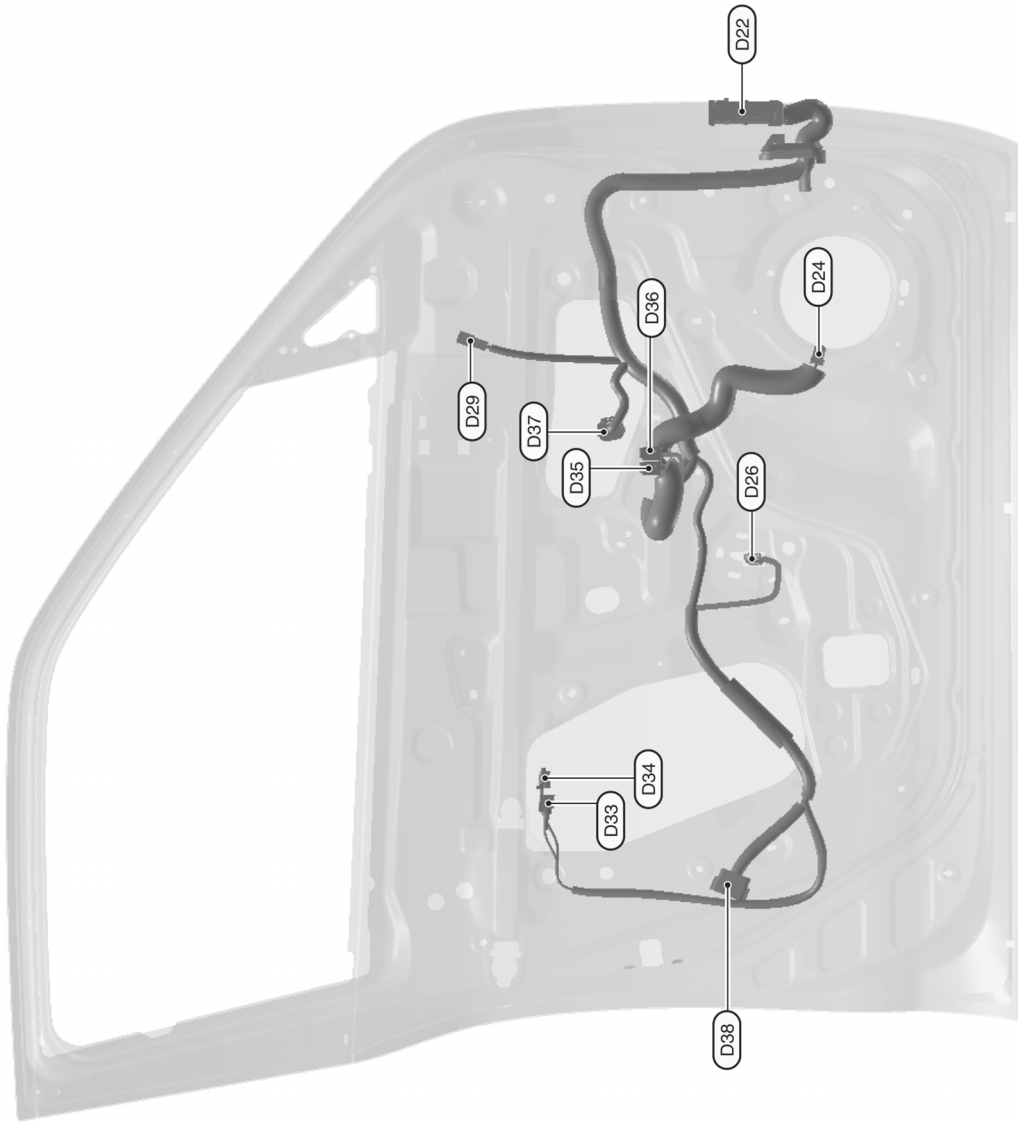
< WIRING DIAGRAM >

NISMO : Door Harness

INFOID:000000010325845

FRONT DOOR HARNESS (LH SIDE)

FRONT DOOR HARNESS (LH SIDE) (NISMO)



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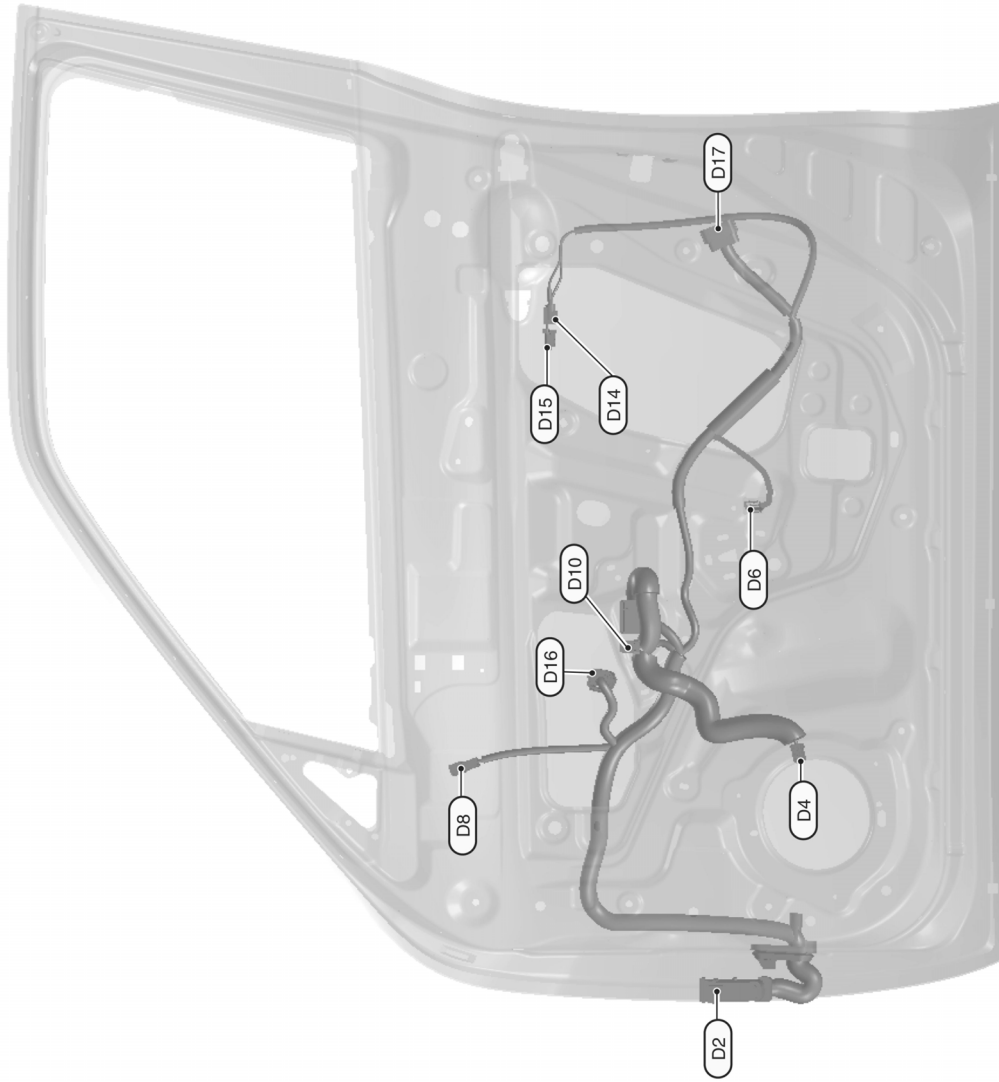
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HARNES LAYOUT

< WIRING DIAGRAM >

FRONT DOOR HARNESS (RH SIDE)

FRONT DOOR HARNESS (RH SIDE) (NISMO)



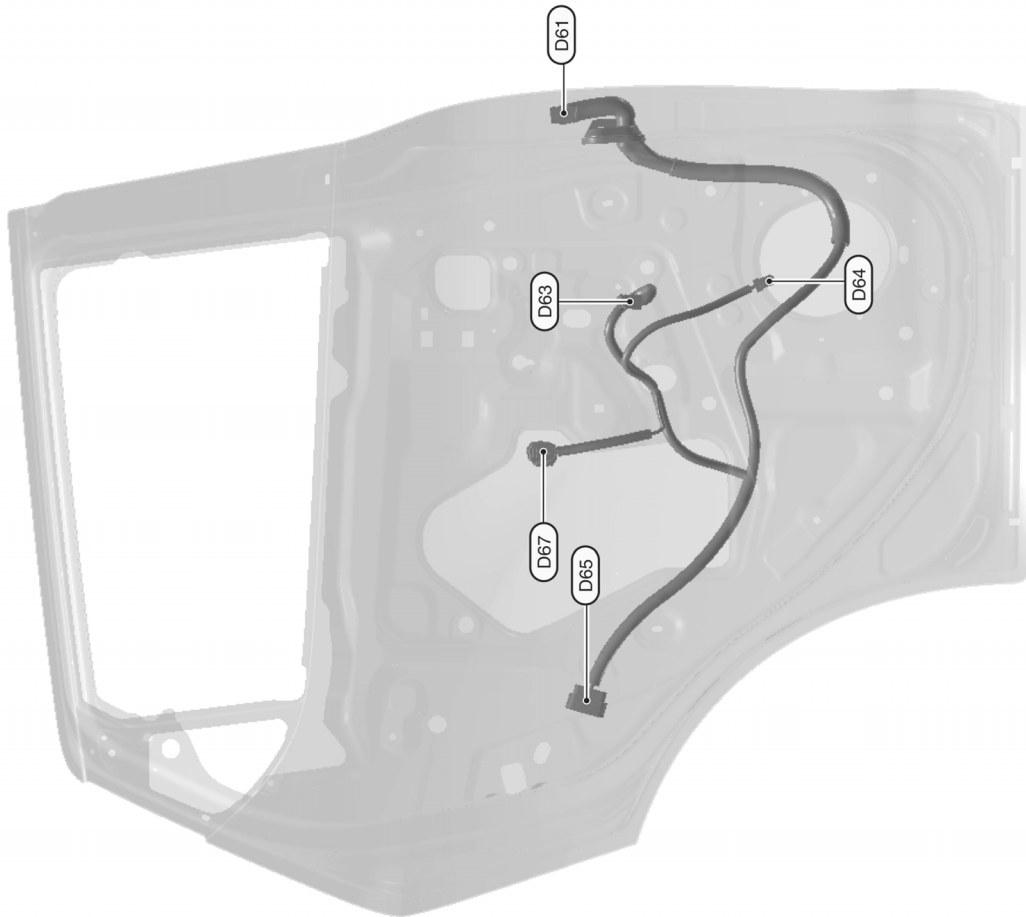
JRMIC3966GB

2013/10/01

HARNES LAYOUT

< WIRING DIAGRAM >

REAR DOOR HARNESS (LH SIDE)



REAR DOOR HARNESS (LH SIDE) (NISMO)

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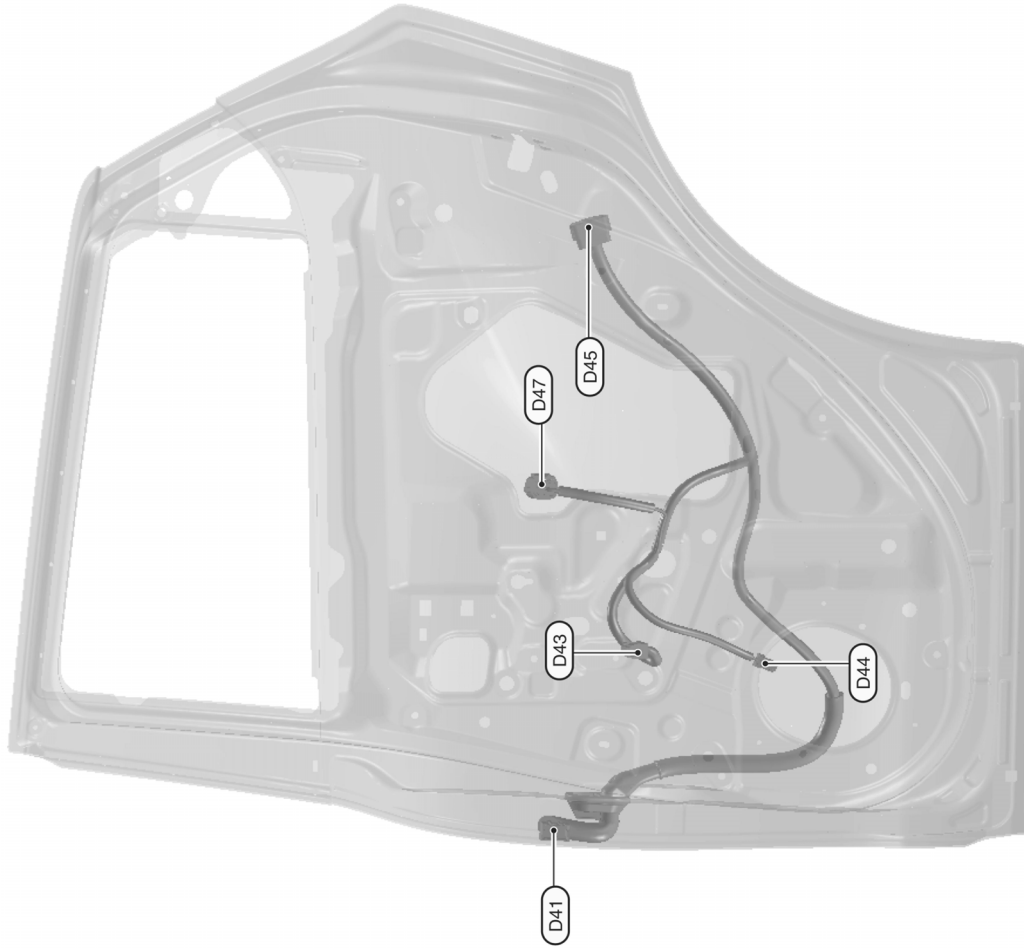
JRMIC3967GB

HARNES LAYOUT

< WIRING DIAGRAM >

REAR DOOR HARNESS (RH SIDE)

REAR DOOR HARNESS (RH SIDE) (NISMO)



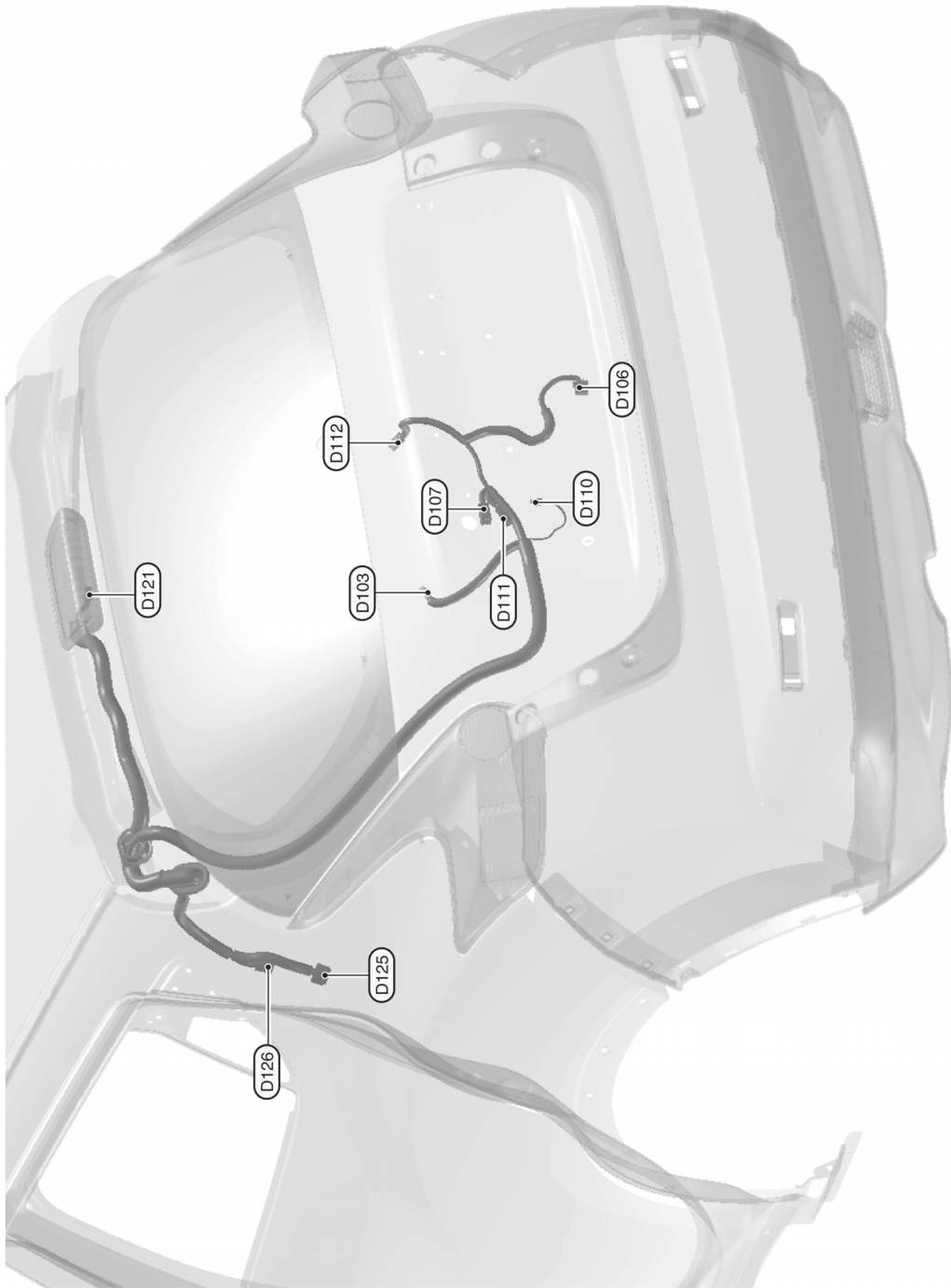
JRMIC3968GB

2013/10/01

HARNES LAYOUT

< WIRING DIAGRAM >
BACK DOOR HARNES

BACK DOOR HARNES (NISMO)



2013/10/01

JRMIC3969GB

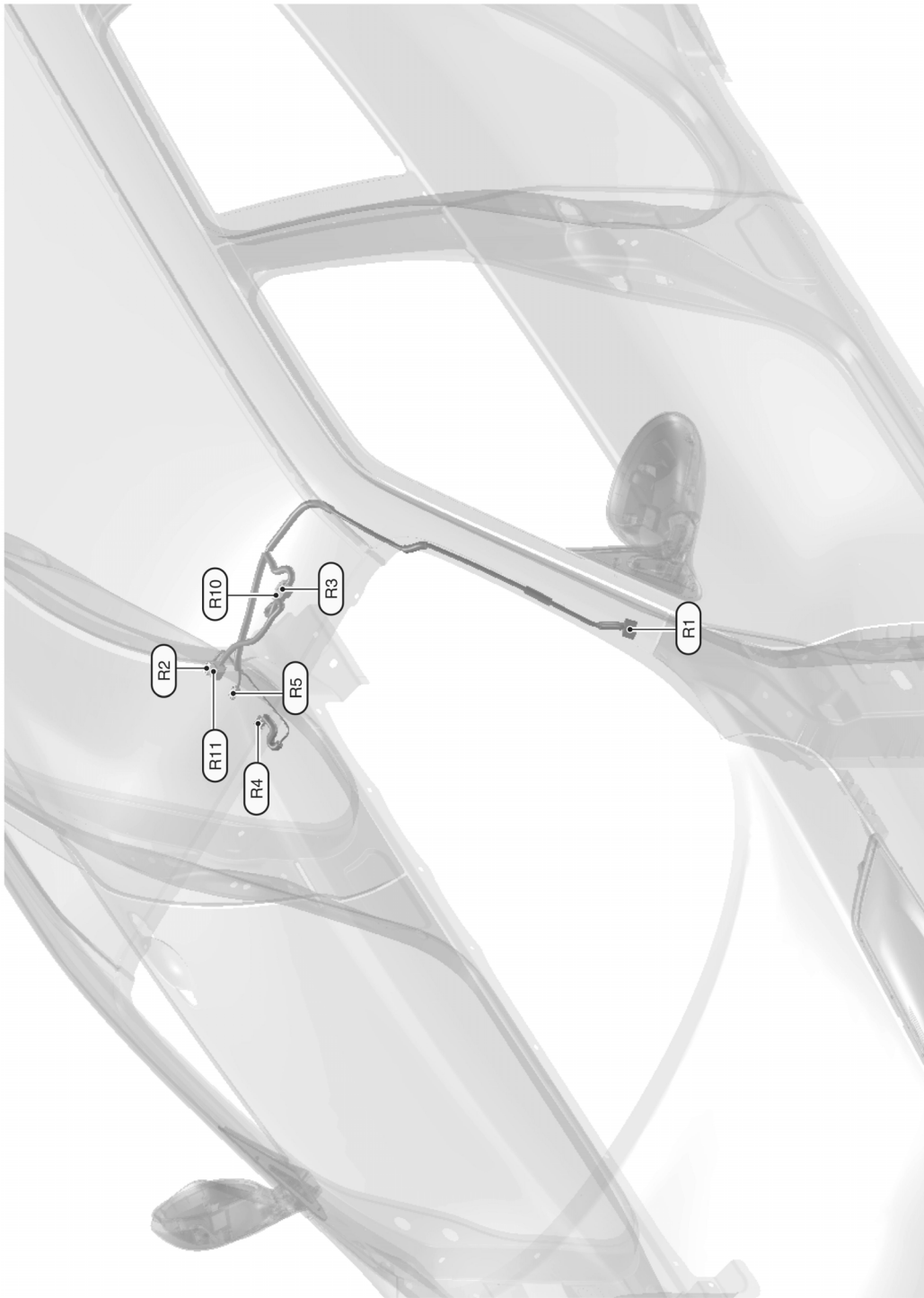
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HARNESS LAYOUT

< WIRING DIAGRAM >

NISMO : Room Lamp Harness

INFOID:000000010325846



ROOM LAMP HARNESS (NISMO)

2013/10/01

JRMIC3970GB

BATTERY INSPECTION

< BASIC INSPECTION >

BASIC INSPECTION

BATTERY INSPECTION

How to Handle Battery

INFOID:000000009750022

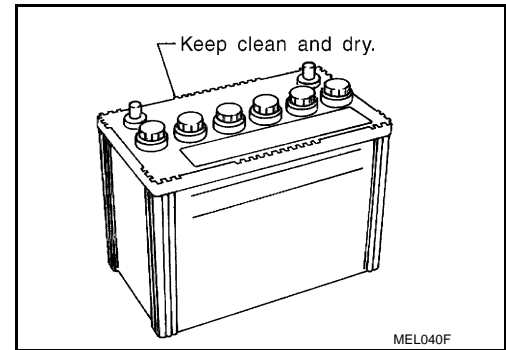
CAUTION:

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

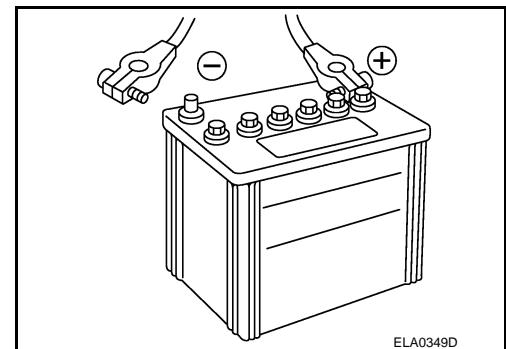
METHODS OF PREVENTING OVER-DISCHARGE

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

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



- When the vehicle is not going to be used over a long period of time, disconnect the battery cable from the negative terminal. (If the vehicle has an extended storage fuse switch, turn it off.)



Work Flow

INFOID:000000009750023

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

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

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

NOTE:

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

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

Check Electrolyte Level

WARNING:

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

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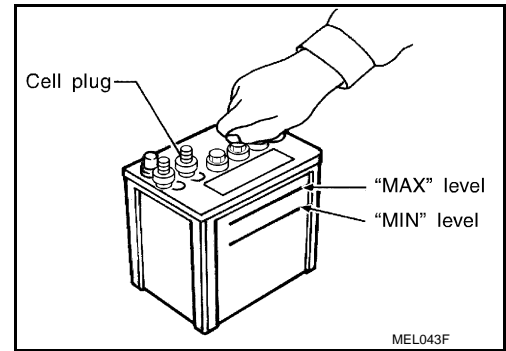
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BATTERY INSPECTION

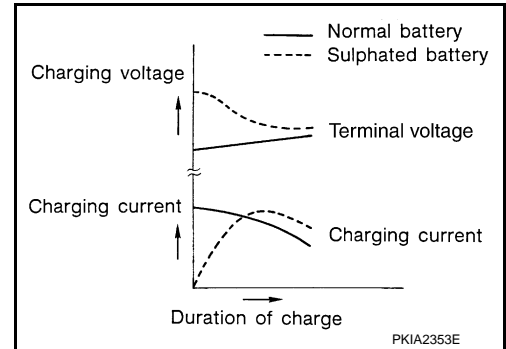
< BASIC INSPECTION >

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



SULPHATION

- A battery will be completely discharged if it is left unattended for a long time and the specific gravity will become less than 1.100. This may result in sulphation on the cell plates.
- To determine if a battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.
- A sulphated battery may sometimes be brought back into service by means of a long, slow charge, 12 hours or more, followed by a battery capacity test.



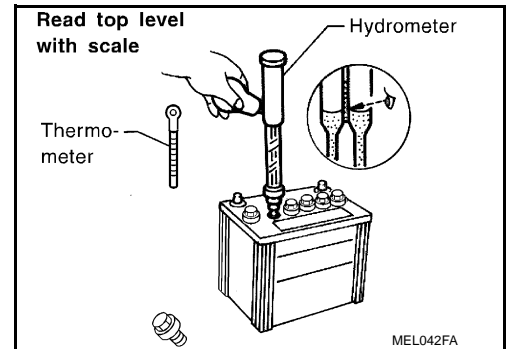
Specific Gravity Check

NOTE:

Check the charge condition of the battery.

Periodically check the specific gravity of the electrolyte. Keep a close check on charge condition to prevent over-discharge.

1. Read hydrometer and thermometer indications at eye level.
2. Use the chart below to correct your hydrometer reading according to electrolyte temperature.



Hydrometer Temperature Correction

Battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
71 (160)	0.032
66 (150)	0.028
60 (140)	0.024
54 (130)	0.020
49 (120)	0.016
43 (110)	0.012
38 (100)	0.008
32 (90)	0.004
27 (80)	0
21 (70)	-0.004
16 (60)	-0.008
10 (50)	-0.012

BATTERY INSPECTION

< BASIC INSPECTION >

Battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
4 (40)	-0.016
-1 (30)	-0.020
-7 (20)	-0.024
-12 (10)	-0.028
-18 (0)	-0.032

Corrected specific gravity	Approximate charge condition
1.260 - 1.280	Fully charged
1.230 - 1.250	3/4 charged
1.200 - 1.220	1/2 charged
1.170 - 1.190	1/4 charged
1.140 - 1.160	Almost discharged
1.110 - 1.130	Completely discharged

Charging The Battery

CAUTION:

- **Never “quick charge” a fully discharged battery.**
- **Keep the battery away from open flame while it is being charged.**
- **When connecting the charger, connect the leads first, then turn on the charger. Never turn on the charger first, as this may cause a spark.**
- **If battery electrolyte temperature rises above 55 °C (131 °F), stop charging. Always charge battery at a temperature below 55 °C (131 °F).**

Charging Rates (Standard Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	5	2
3/4 charged		2.5
1/2 charged		5
1/4 charged		7.5
Almost discharged		9
Completely discharged		10

Charging Rates (Quick Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	—	—
3/4 charged	13	0.5
1/2 charged	26	
1/4 charged		
Almost discharged	—	—
Completely discharged		

NOTE:

The ammeter reading on your battery charger will automatically decrease as the battery charges. This indicates that the voltage of the battery is increasing normally as the state of charge improves. The charging amps indicated above refer to initial charge rate.

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

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FUSE INSPECTION

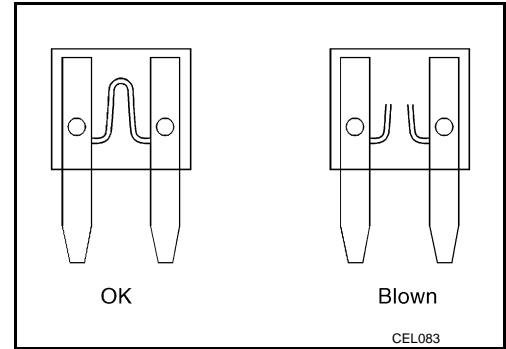
< BASIC INSPECTION >

FUSE INSPECTION

How To Check

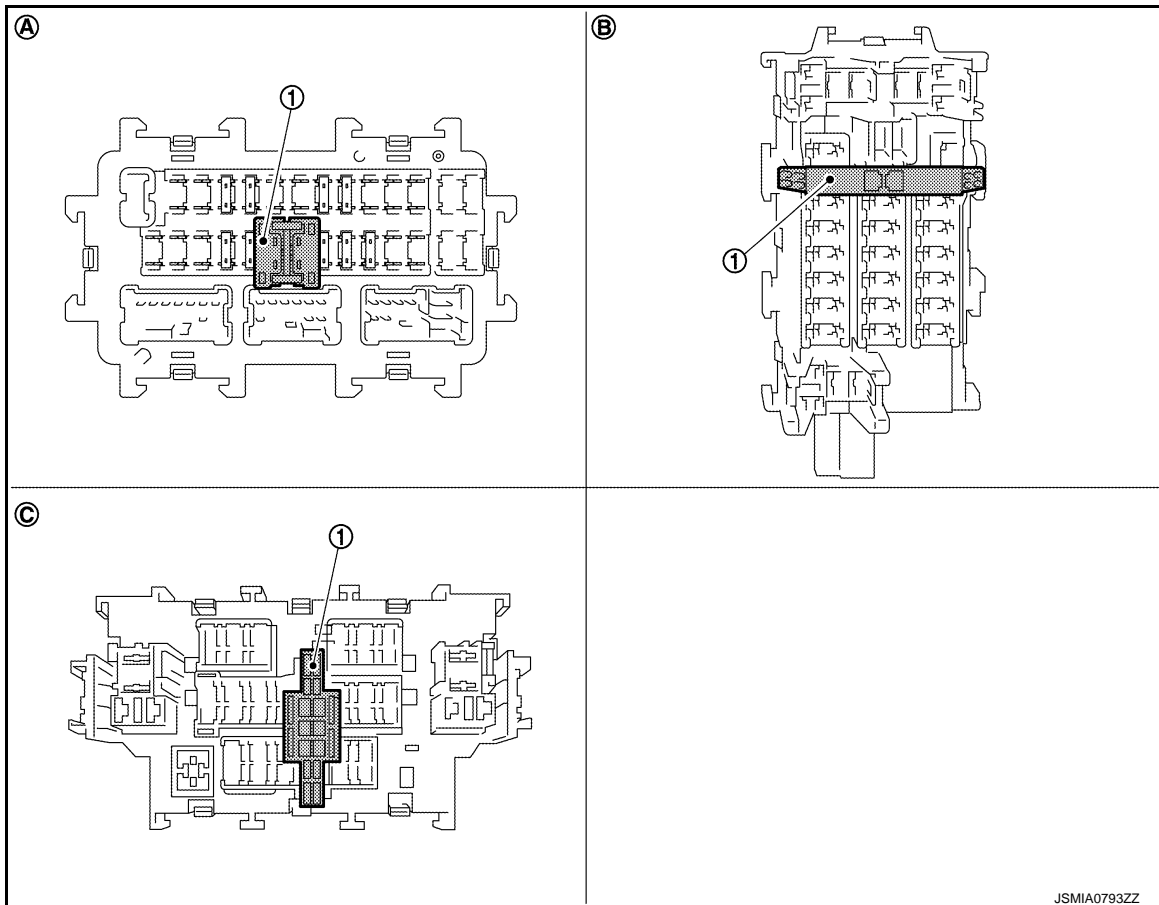
INFOID:00000009750024

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



EXTENDED STORAGE FUSE SWITCH (IF EQUIPPED)

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



1. Extended storage fuse switch

A. Type A

B. Type B

C. Type C

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

How To Extended Storage Fuse Switch ON/OFF

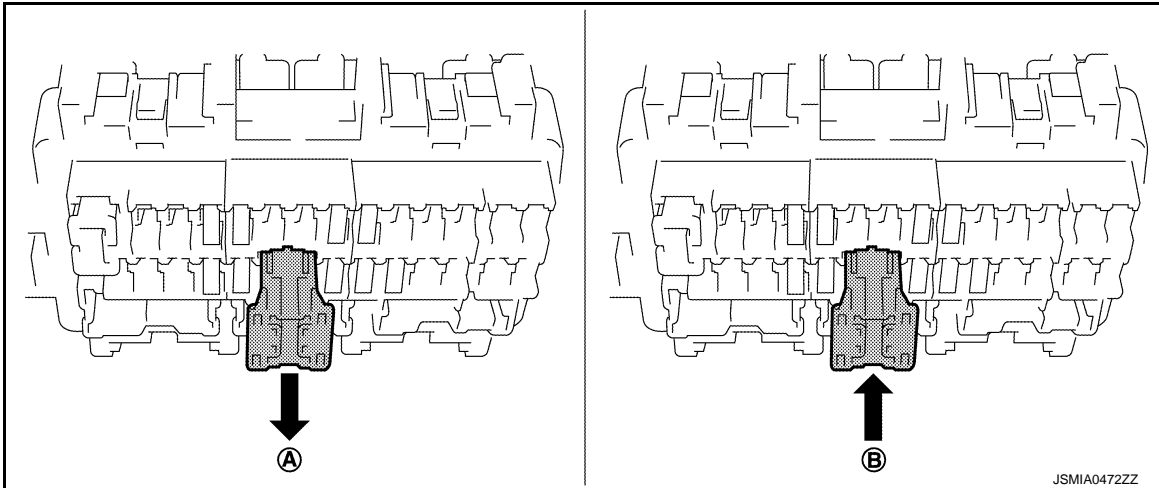
CAUTION:

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

FUSE INSPECTION

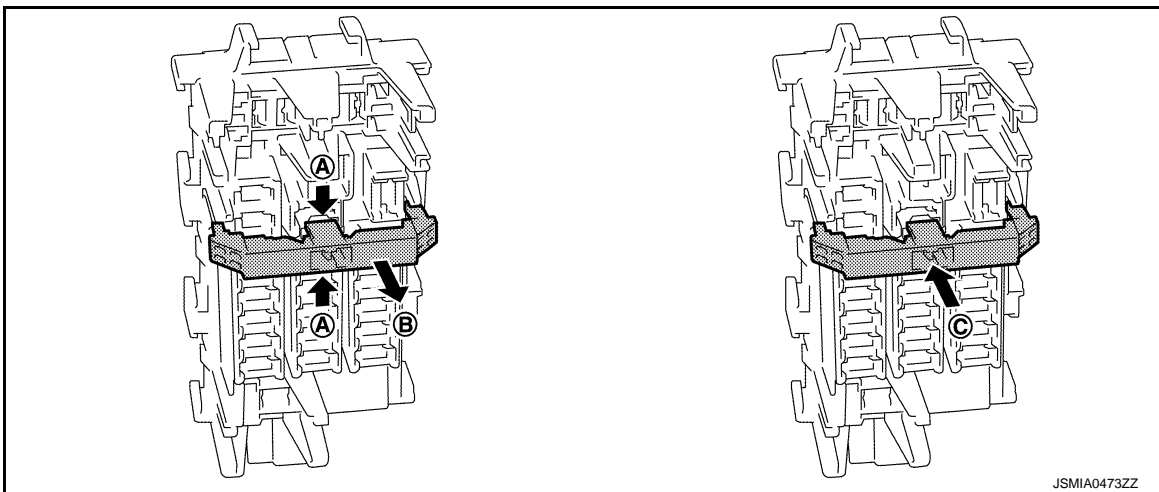
< BASIC INSPECTION >

• Type A



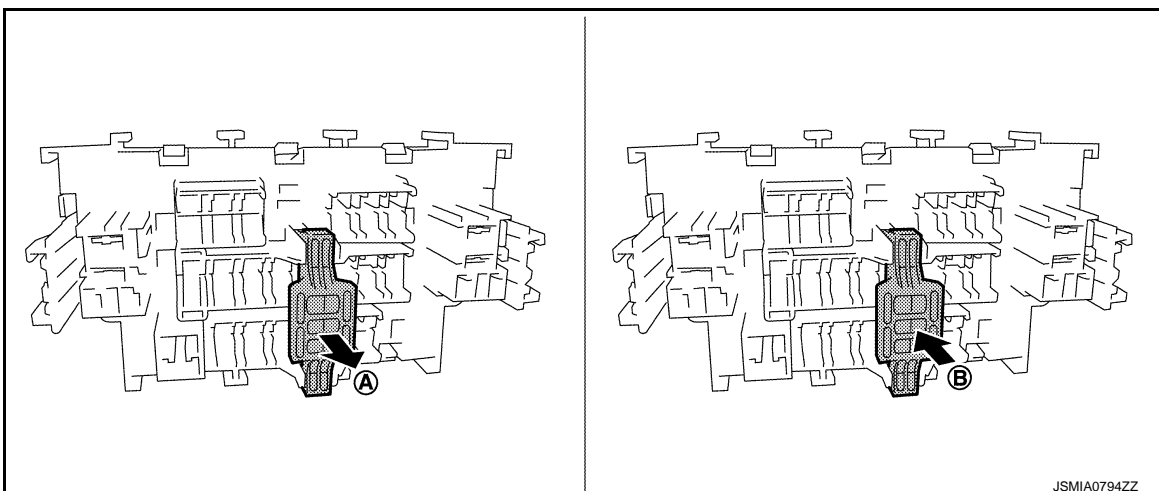
- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

• Type B



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

• Type C



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

How To Remove Extended Storage Fuse Switch

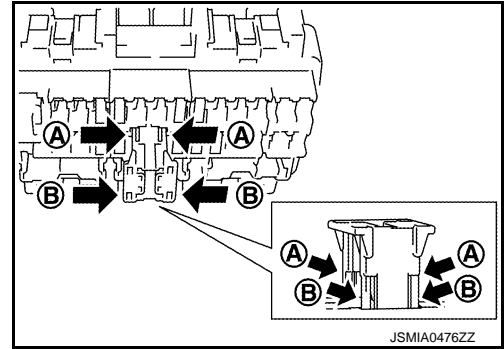
Type A

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FUSE INSPECTION

< BASIC INSPECTION >

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

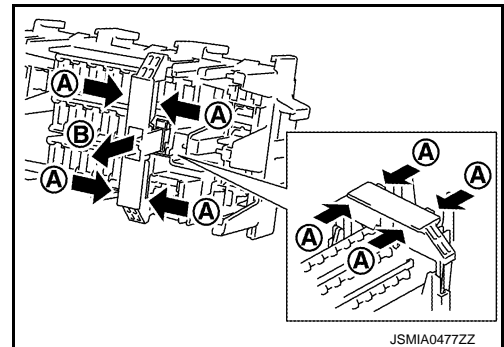


NOTE:

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

Type B

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

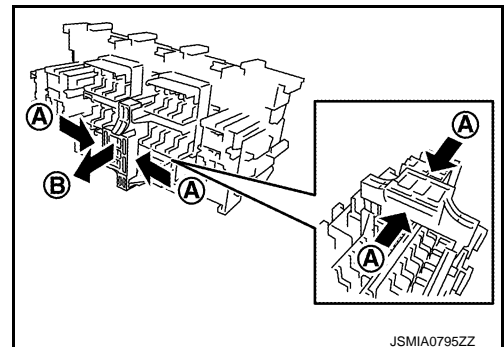


NOTE:

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

Type C

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



NOTE:

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

FUSE INSPECTION

< BASIC INSPECTION >

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

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FUSIBLE LINK INSPECTION

< BASIC INSPECTION >

FUSIBLE LINK INSPECTION

How To Check

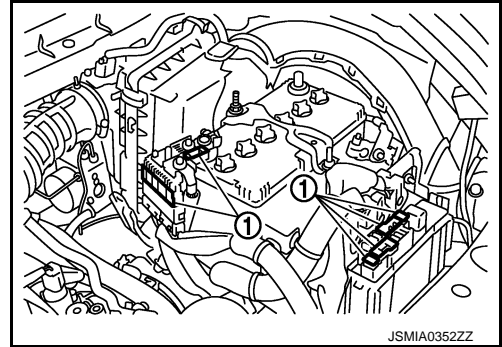
INFOID:000000009750025

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.



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BATTERY

< REMOVAL AND INSTALLATION >


REMOVAL AND INSTALLATION

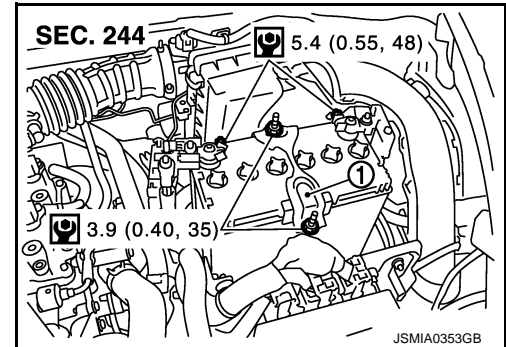
BATTERY

Exploded View

INFOID:000000009750026

1 : Battery fix frame

 : N-m (kg-m, in-lb)



Removal and Installation

INFOID:000000009750027

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

CAUTION:

- To install the battery, carefully read the following instructions.
 - When connecting, connect the battery cable to the positive terminal first.
 - After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.
 - Check battery terminal for poor connection caused by corrosion.
- Reset electronic systems as necessary. Refer to [GI-61, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection"](#).

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BATTERY TERMINAL WITH FUSIBLE LINK

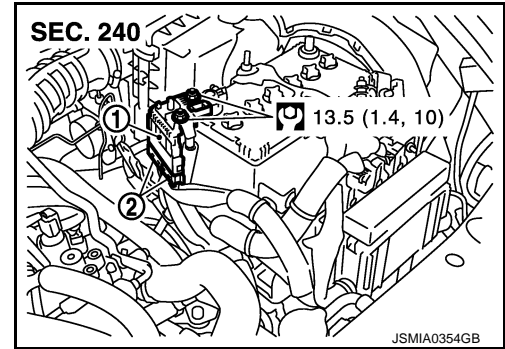
< REMOVAL AND INSTALLATION >

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:000000009750028

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



Removal and Installation

INFOID:000000009750029

REMOVAL

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

INSTALLATION

Install in the reverse order of removal.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:000000009750030

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

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