

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:000000009337809

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 "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

#### **WARNING:**

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

#### **WARNING:**

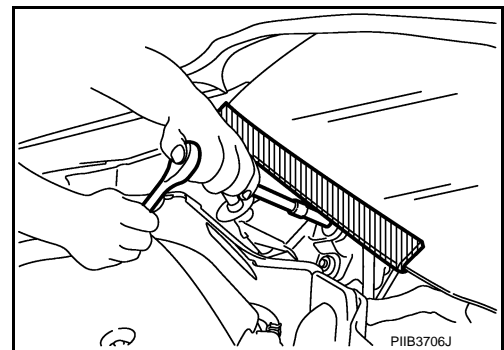
Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the ignition ON or engine running, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the ignition OFF, disconnect the battery, and wait at least 3 minutes before performing any service.

#### Precaution for Procedure without Cowl Top Cover

INFOID:000000009239705

When performing the procedure after removing cowl top cover, cover the lower end of windshield with urethane, etc to prevent damage to windshield.



# PREPARATION


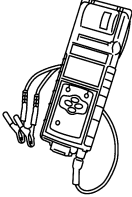
< PREPARATION >

## PREPARATION

### PREPARATION

#### Special Service Tools

INFOID:000000009239706

Tool number (Kent-Moore No.) Tool name	Description
<p>— (→) Model GR8-1200 NI Multitasking battery and electrical diagnostic station</p>  <p>AWI1A1239ZZ</p>	<p>Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.</p>
<p>— (→) Model EXP-800 NI Battery and electrical diagnostic analyzer</p>  <p>JSMIA0806ZZ</p>	<p>Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.</p>

# COMPONENT PARTS

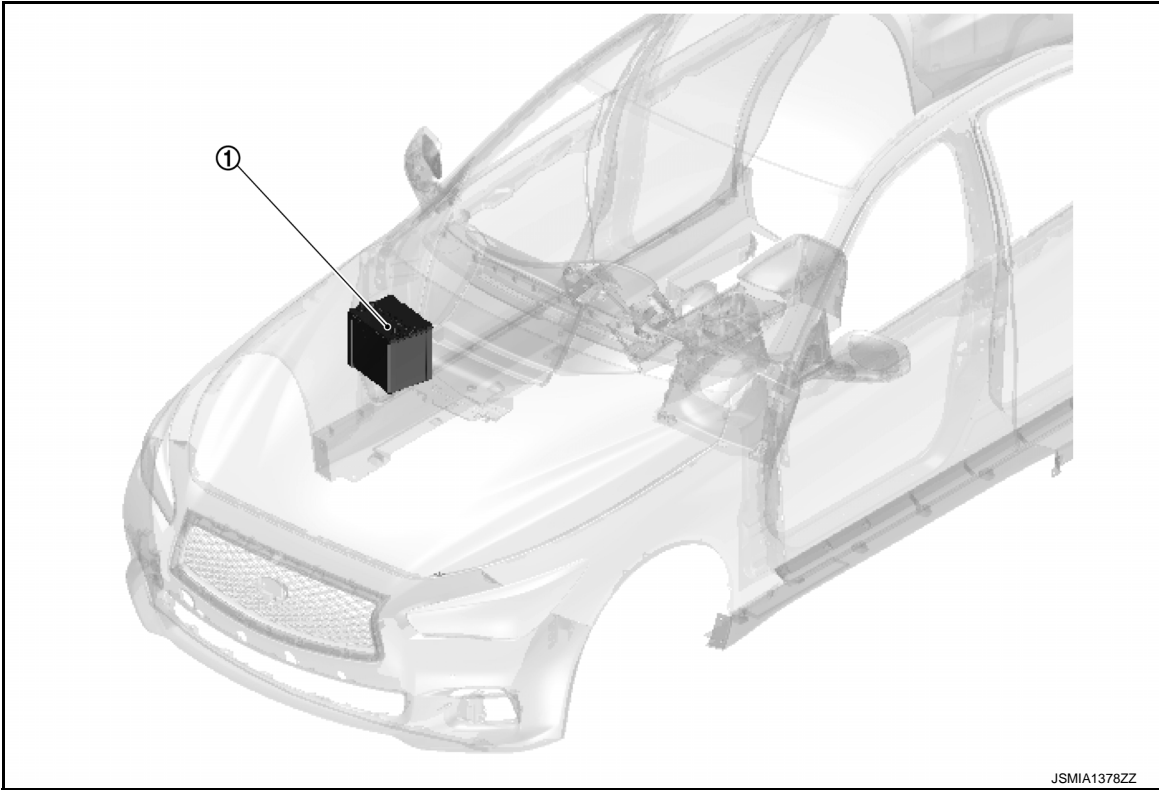
< SYSTEM DESCRIPTION >

## SYSTEM DESCRIPTION

### COMPONENT PARTS

#### Component Parts Location

INFOID:000000009337810



JSMIA1378ZZ

No.	Component	Function
①	Battery	Refer to <a href="#">PG-5, "Battery"</a> .

#### Battery

INFOID:000000009239708

#### WITH DIRECT ADAPTIVE STEERING

Type		Q-85
20 hour rate capacity	[V - Ah]	12 - 62
Cold cranking current (For reference value)	[A]	600

#### WITHOUT DIRECT ADAPTIVE STEERING

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

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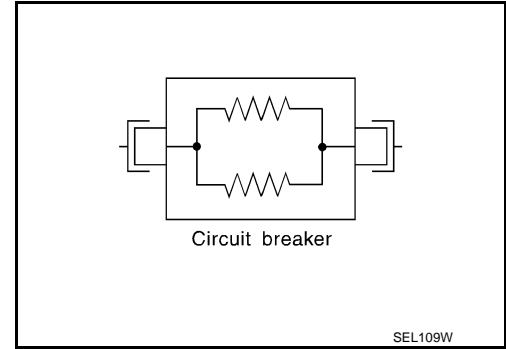
# COMPONENT PARTS

< SYSTEM DESCRIPTION >

## Circuit Breaker

INFOID:000000009239707

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



## Harness Connector

INFOID:000000009239709

### 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.

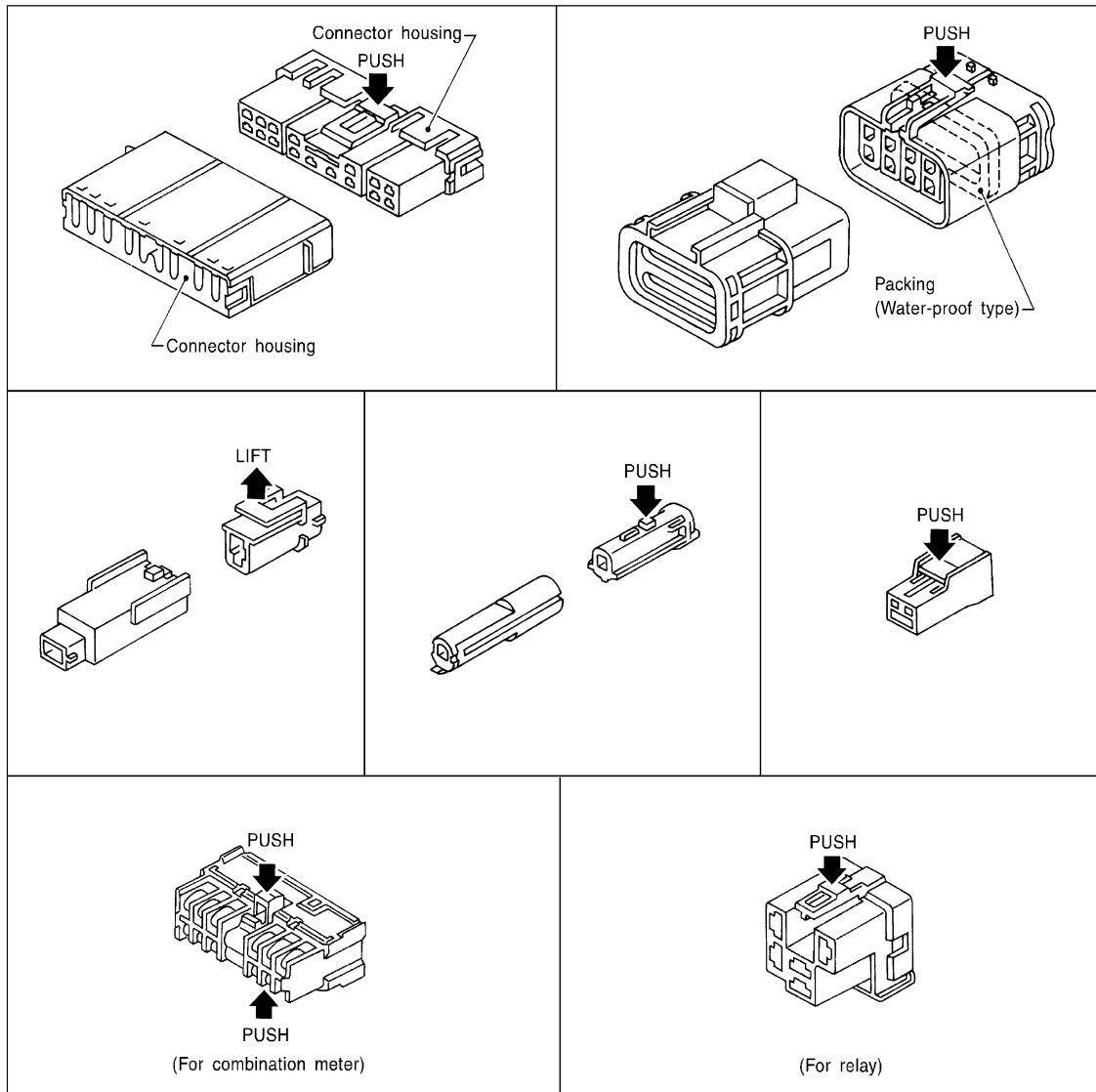
#### **CAUTION:**

**Never pull the harness or wires when disconnecting the connector.**

# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

[Example]



A  
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C  
D  
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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.**

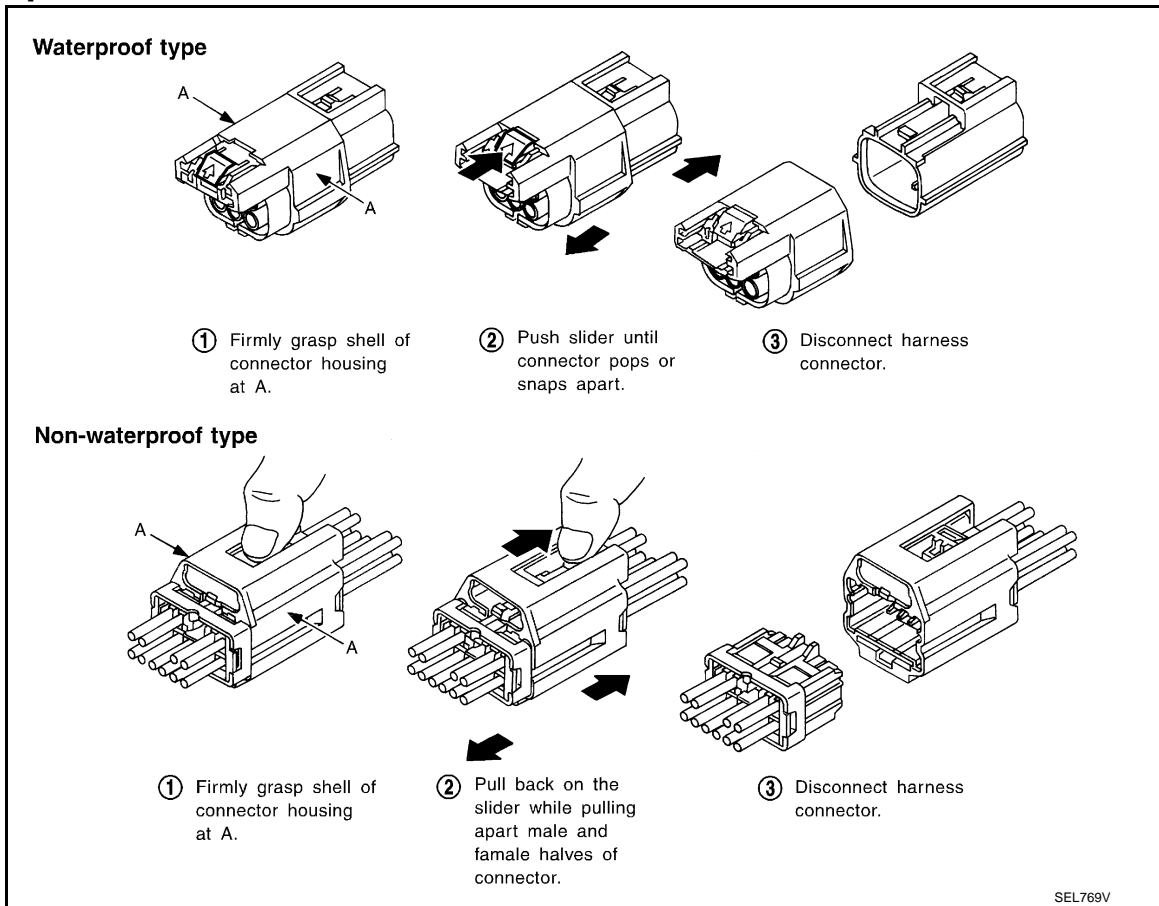
PG

N  
O  
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# 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.

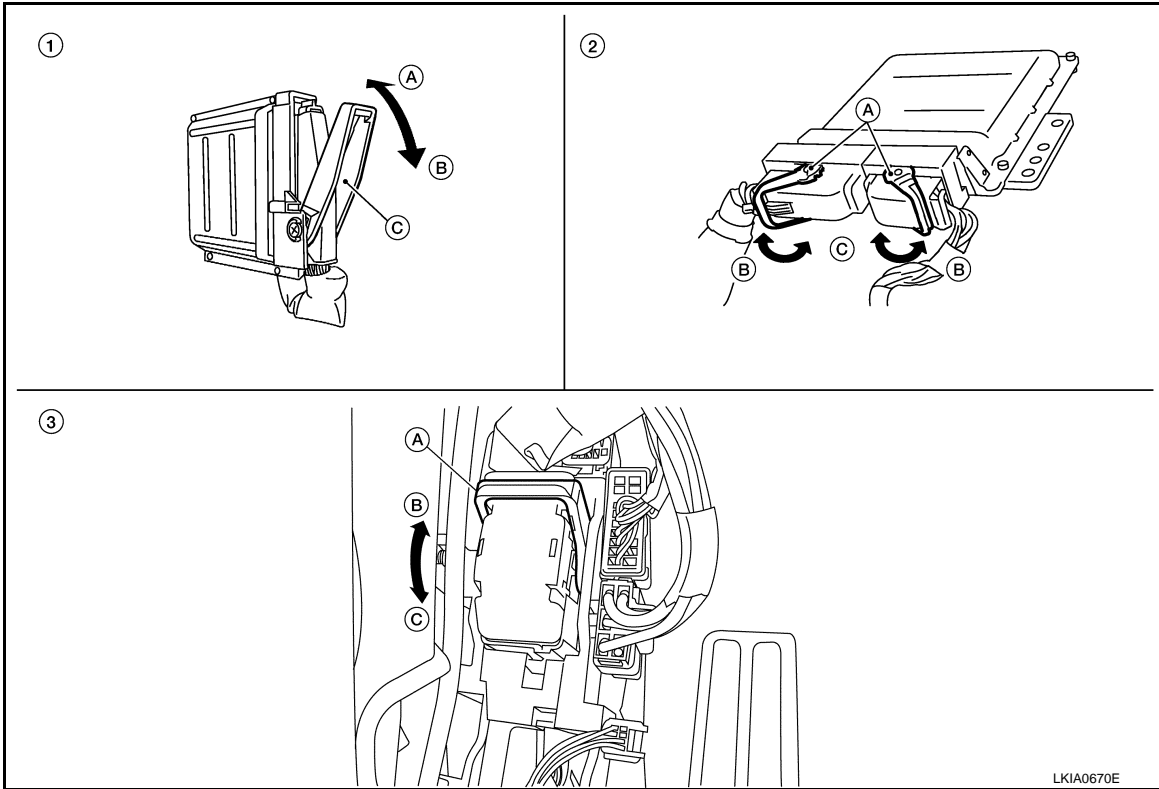
**CAUTION:**



# 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.



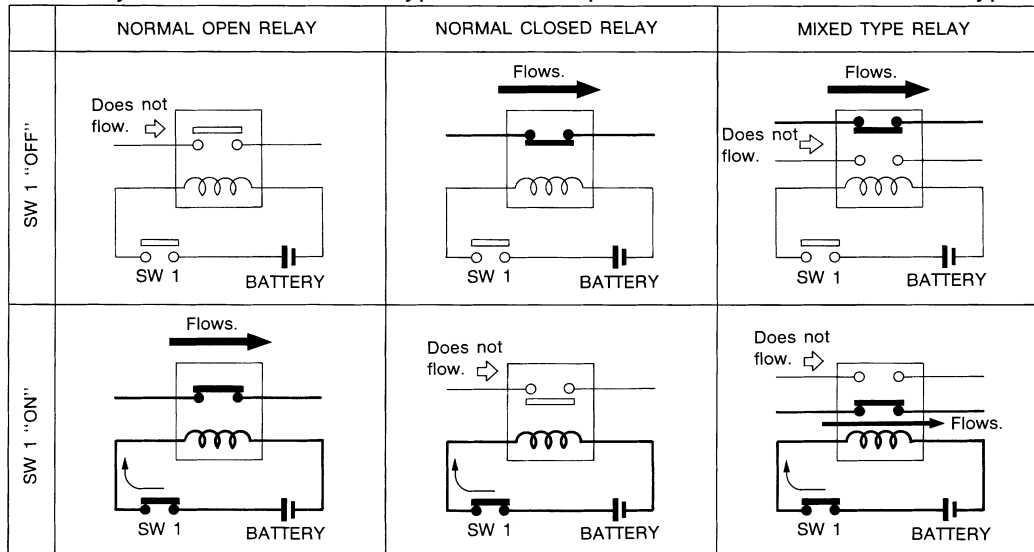
- |   |   |  |
|---|---|--|
| <p>① Control unit with single lever</p> <ul style="list-style-type: none"> <li>Ⓐ Fasten</li> <li>Ⓑ Loosen</li> <li>Ⓒ Lever</li> </ul> | <p>② Control unit with dual levers</p> <ul style="list-style-type: none"> <li>Ⓐ Levers</li> <li>Ⓑ Fasten</li> <li>Ⓒ Loosen</li> </ul> | <p>③ SMJ connector</p> <ul style="list-style-type: none"> <li>Ⓐ Lever</li> <li>Ⓑ Fasten</li> <li>Ⓒ Loosen</li> </ul> |
|---|---|--|

## Standardized Relay

INFOID:000000009239710

### NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



SEL881H

## TYPE OF STANDARDIZED RELAYS

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PG  
N  
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P

# COMPONENT PARTS

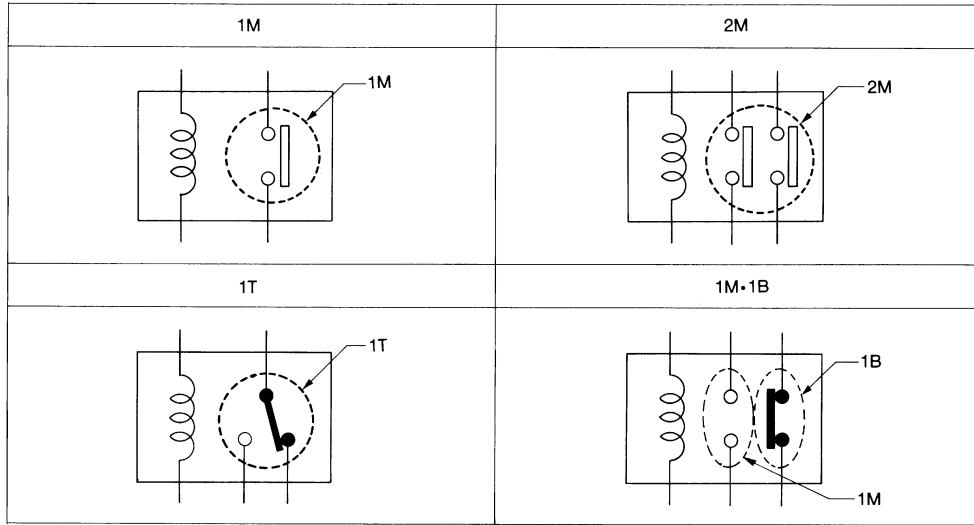
## < SYSTEM DESCRIPTION >

1M ..... 1 Make

2M ..... 2 Make

1T ..... 1 Transfer

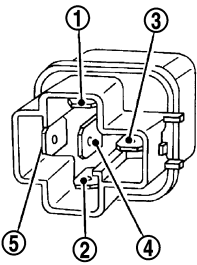
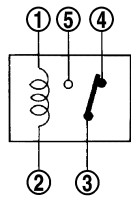
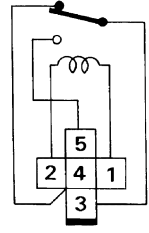
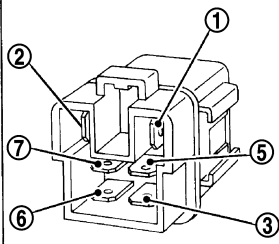
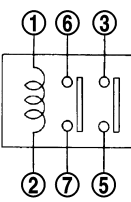
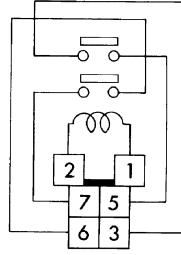
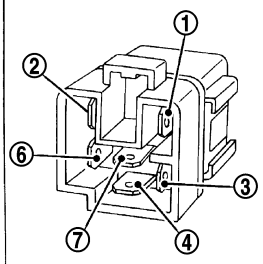
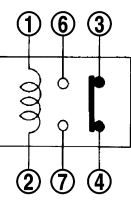
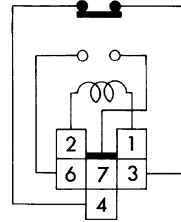
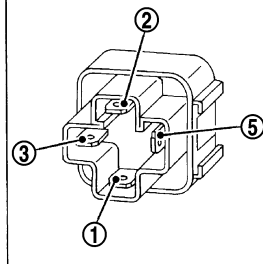
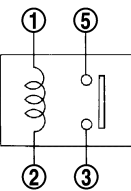
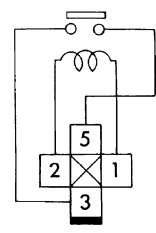
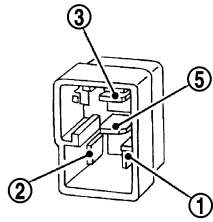
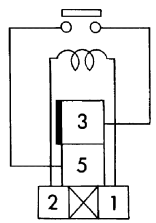
1M·1B ..... 1 Make 1 Break



SEL882H

# COMPONENT PARTS

## < SYSTEM DESCRIPTION >

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

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

JSMIA1499GB

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# POWER SUPPLY ROUTING CIRCUIT

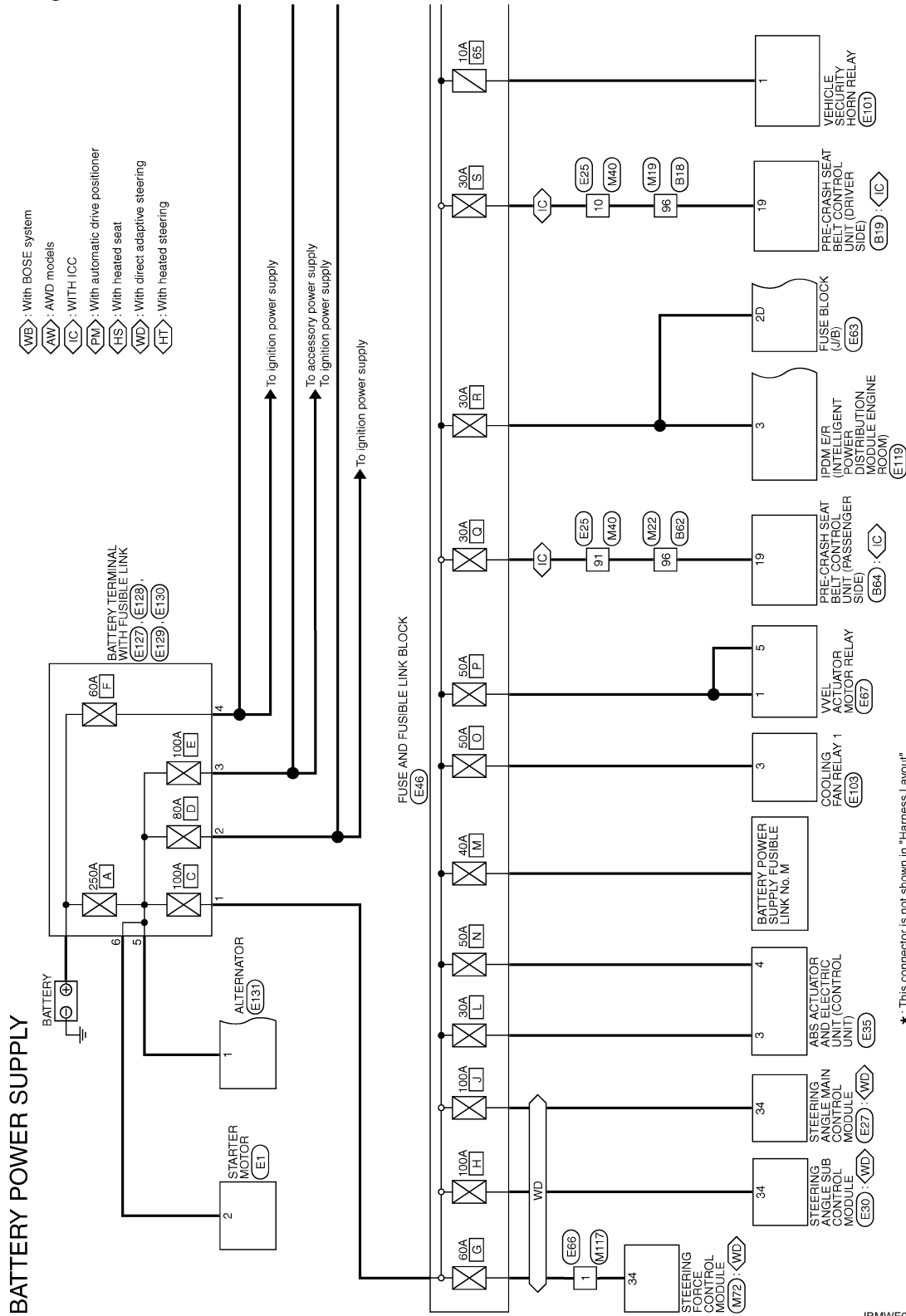
< WIRING DIAGRAM >

## WIRING DIAGRAM

### POWER SUPPLY ROUTING CIRCUIT

#### Wiring Diagram - BATTERY POWER SUPPLY -

INFOID:000000009239711



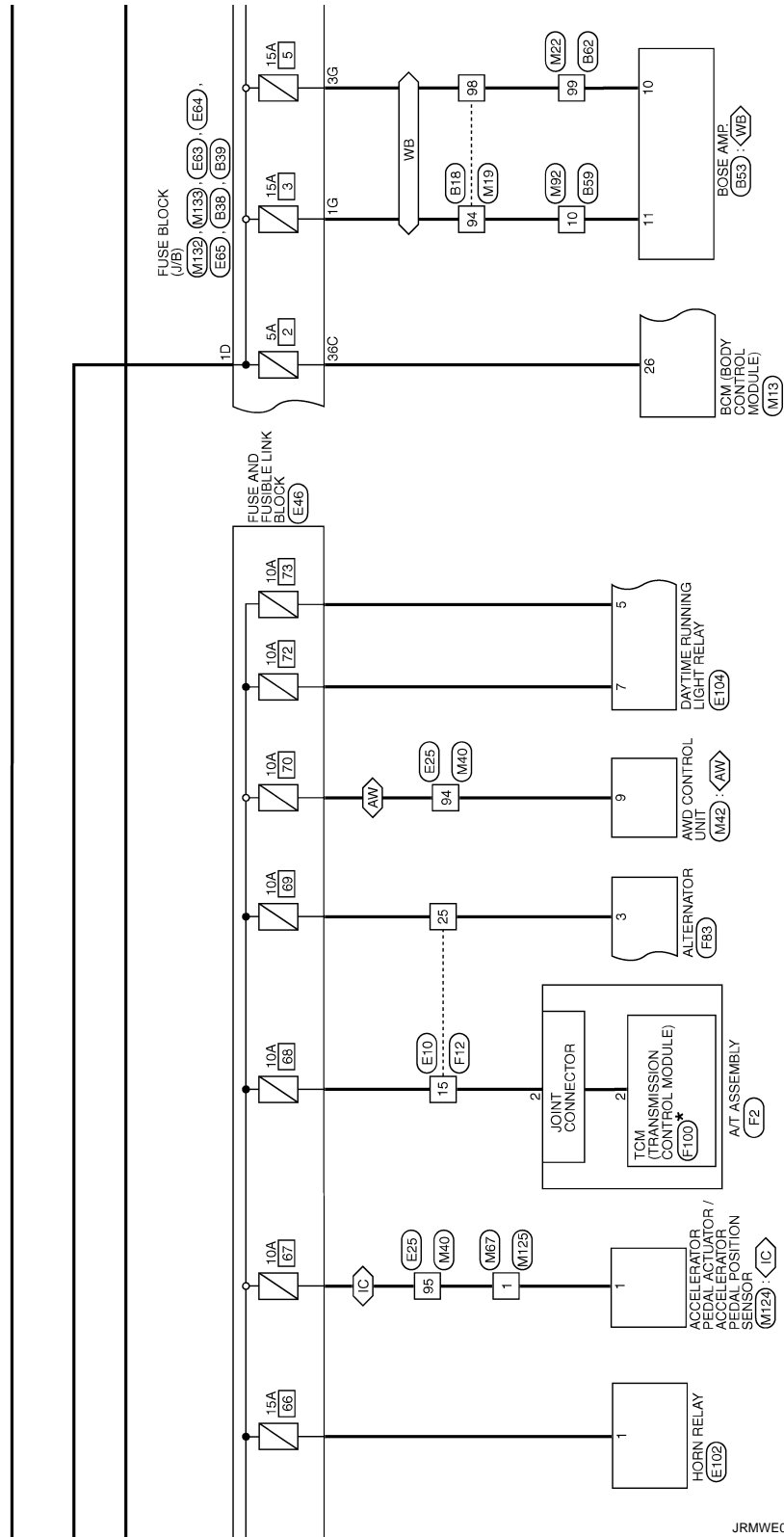
\*: This connector is not shown in "Harness Layout".

2013/05/17

JRMWE0008GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

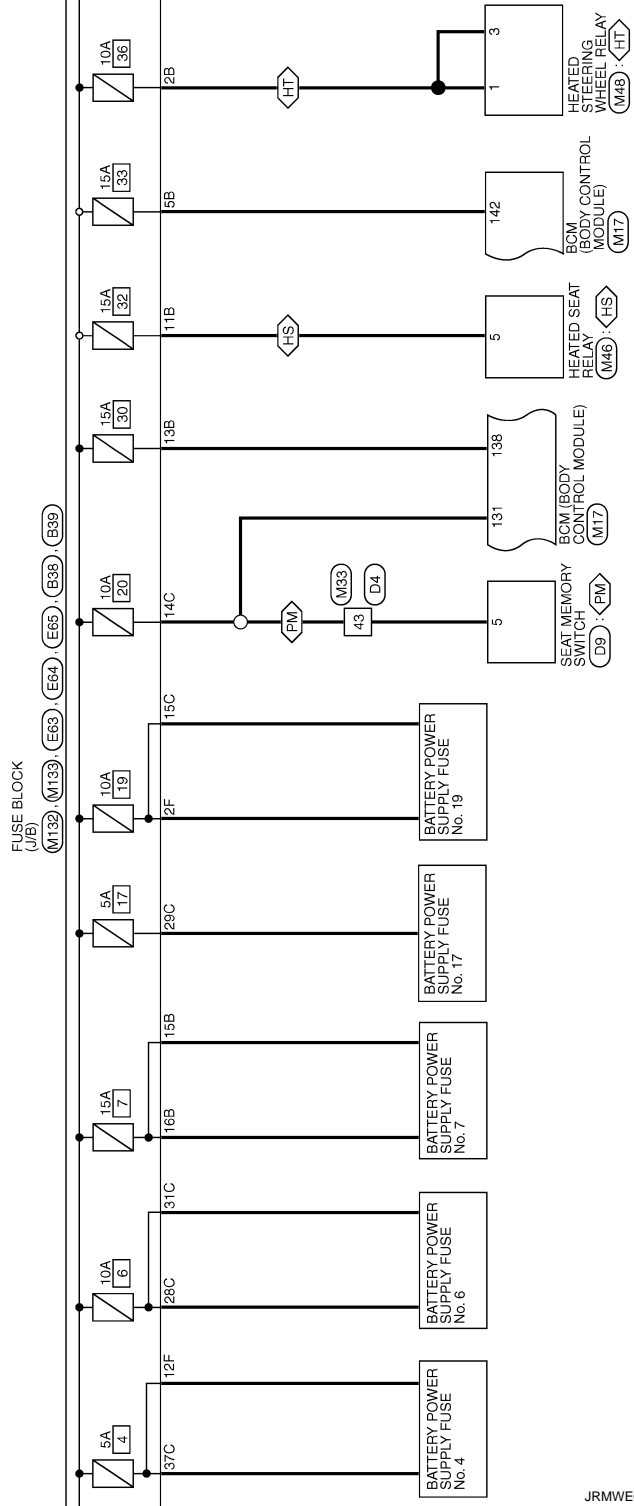


JRMWE0009GB

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# POWER SUPPLY ROUTING CIRCUIT

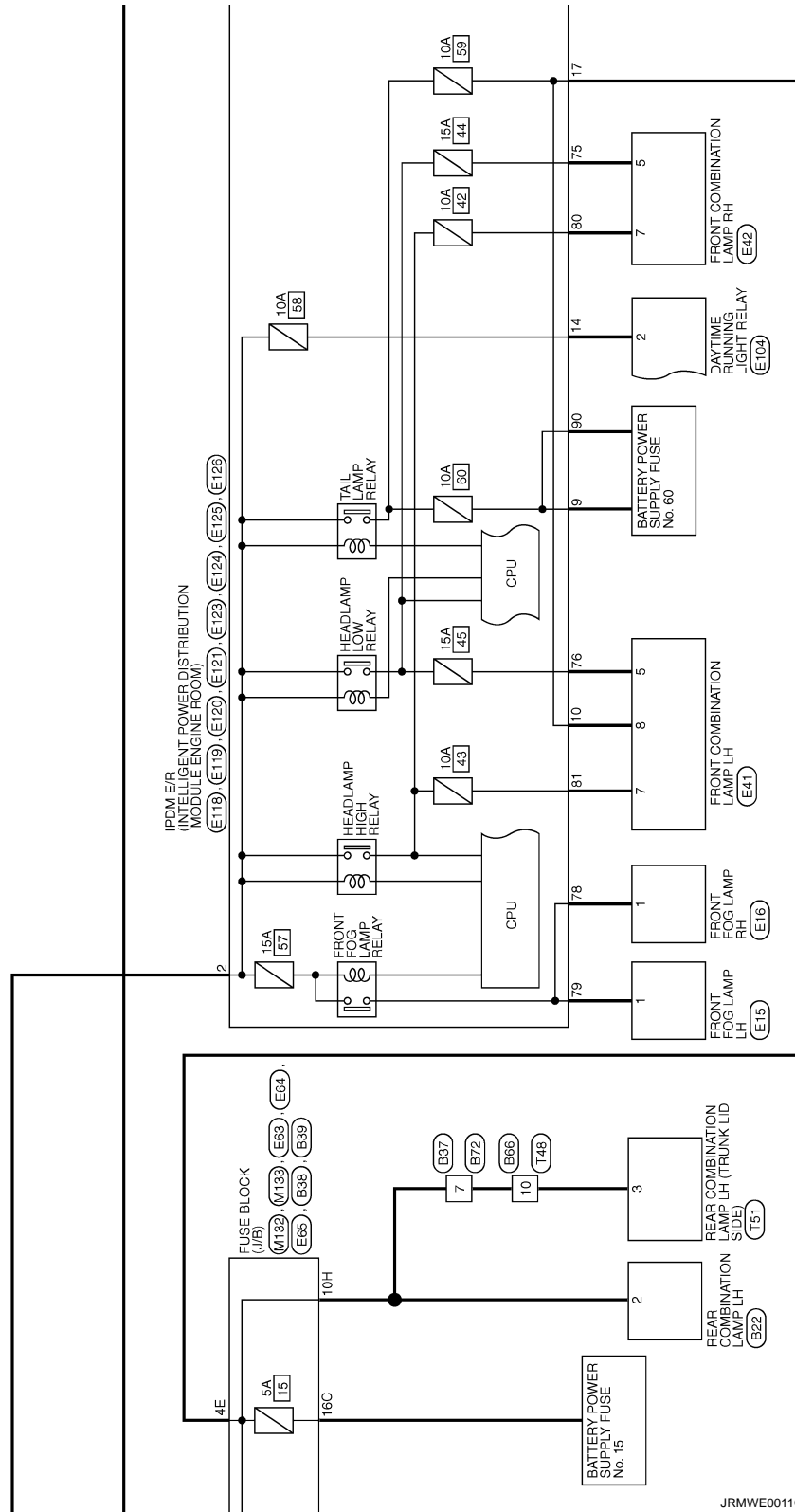
< WIRING DIAGRAM >



JRMWE0010GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



JRMWE0011GB

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

**BATTERY POWER SUPPLY**

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	TH88PT-C51P-TM4

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	G	-
3	L	-
4	LG	-
6	R	-
7	V	-
8	LG	-
9	BR	-
10	P	-
11	BG	-
12	LG	-
13	GR	-
24	Y	-
25	W	-
31	B	-
32	B	-
33	B	-
34	LG	-
35	W	-
36	W	-
37	SB	-
38	LG	-
40	P	-
41	SB	-
42	BR	-
43	BG	-
44	BG	-
46	R	-
51	SB	-
52	V	-
54	R	-
55	R	-
57	W	-
58	V	-
59	GR	-

82	BG	-
83	BR	-
84	V	-
85	V	-
86	B	-
87	W	-
88	B	-
89	G	-
90	W	-
91	GR	-
94	GR	-
96	Y	-
97	V	-
98	BR	-

Connector No. B19  
Connector Name PRE-CRASH-BEAT BELT CONTROL UNIT (DRIVER SIDE)  
Connector Type TH18FW-CS2

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	SIG.BAT
2	G	OUT 1
4	R	CAN L0
6	W	BACKLE SWLH LNO
8	BR	LOCAL COMM 2
9	SHIELD	SHIELD GND
10	R	SENS POWER 1
12	B	OUT 2
14	L	CAN HI
16	Y	LOCAL COMM 1
17	W	SENS GND 1

18	B	SIG GND
19	Y	MOTOR.BAT
20	B	MOTOR GND

Connector No. B22  
Connector Name REAR COMBINATION LAMP LH (BODY SIDE)  
Connector Type NS34MW-CS

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

Connector No. B23  
Connector Name REAR COMBINATION LAMP RH (BODY SIDE)  
Connector Type NS34MW-CS

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

Connector No. B37  
Connector Name WIRE TO WIRE  
Connector Type TH88MH-TM4

Terminal No.	Color Of Wire	Signal Name [Specification]
2	SHIELD	-
3	R	-
4	L	-
5	R	-
7	P	-

Connector No. B38  
Connector Name FUSE BLOCK (J/B)  
Connector Type NST10FW-CS

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

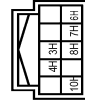
A  
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PG  
N  
O  
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

Connector No.	B59
Connector Name	FUSE BLOCK (J/B)
Connector Type	TH10PE-NH



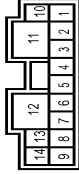
Terminal No.	Color Of Wire	Signal Name [Specification]
10H	P	-
3H	L	-
4H	R	-
6H	L	-
7H	LG	-
8H	P	-

Connector No.	B50
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GND
2	Y	BAT
3	LG	IGN
4	P	ACC
19	LG	AV COMM (H)
20	P	AV COMM (L)
23	SHIELD	AV COMM GND
25	BG	REVERSE SIGNAL
27	L	CAN-H
28	P	CAN-L (W/rt ADAS)
28	R	CAN-L (W/rt ASSD)
30	W	RETRACT MOTOR OPERATION SIGNAL (OPEN)
32	G	RETRACT MOTOR OPERATION SIGNAL (CLOSE)

Connector No.	B53
Connector Name	BOSE AMP
Connector Type	SGA12PBR-SJA2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W/R	SOUND SIGNAL REAR WOOFER (+)
2	W/L	SOUND SIGNAL REAR WOOFER (-)
3	L	SOUND SIGNAL FRONT DOOR WOOFER RH (+)
4	Y	SOUND SIGNAL FRONT DOOR WOOFER RH (-)
5	BR	SOUND SIGNAL REAR DOOR SPEAKER LH (+)
6	R	SOUND SIGNAL REAR DOOR SPEAKER LH (-)
7	B	GND
8	V	SOUND SIGNAL FRONT DOOR WOOFER LH (-)
9	P	SOUND SIGNAL REAR DOOR SPEAKER RH (-)
10	BR	BAT
11	GR	GND
12	B	GND
13	P	SOUND SIGNAL FRONT DOOR WOOFER LH (+)
14	L	SOUND SIGNAL REAR DOOR SPEAKER RH (+)

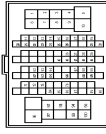
Connector No.	B59
Connector Name	WIRE TO WIRE
Connector Type	NS16PW-CS



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

7	L	-
9	L	-
10	SG	-
12	W	-
13	G	-
14	BR	-
15	P	-
16	P	-

Connector No.	B62
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS1B-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	R	- [With BOSE system]
3	W	- [Without BOSE system]
4	SHIELD	-
5	W	-
6	W	-
7	BR	- [Without BOSE system]
7	W	- [With BOSE system]
8	B	- [Without BOSE system]
8	Y	- [With BOSE system]
9	SHIELD	-
10	V	-
11	GR	-
12	Y	-
13	R	-
14	BG	-
15	GR	-
16	V	-
17	P	-
18	L	-
19	R	-
20	GR	-
21	R	-
22	P	-

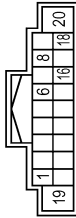
23	W	-
24	V	-
25	SB	-
26	G	-
28	G	-
30	LG	-
36	R	-
37	R	-
38	W	-
39	W	-
45	G	-
46	SHIELD	-
47	G	-
48	BG	-
49	G	-
52	Y	-
53	R	-
54	GR	-
57	R	-
58	P	-
59	LG	-
62	P	-
63	L	-
64	W	-
66	LG	-
68	L	-
69	P	-
71	R	-
72	G	-
73	SHIELD	-
75	BR	-
76	BR	-
85	BG	-
86	W	-
87	LG	-
89	LG	-
90	V	-
92	W	-
93	R	-
94	R	-
95	Y	-
96	W	-
97	L	-
99	BR	-
100	BR	-

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

Connector No.	BB4
Connector Name	PRE-CRASH SEAT BELT CONTROL UNIT (PASSENGER SIDE)
Connector Type	TH18FT-CS2



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	SIG BAT
6	LG	BACKLE SW RH/NO
8	BR	LOCAL COMM 2
16	Y	LOCAL COMM 1
18	B	SIG GND
19	W	MOTOR BAT
20	B	MOTOR GND

Connector No.	BB6
Connector Name	WIRE TO WIRE
Connector Type	INS18MW-CS

HS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	BG	-
4	SHIELD	-
5	W	-
6	GR	-
8	B	-
9	R	-
10	P	-
11	B	-
13	W	- [With around view monitor]
14	B	- [With back view monitor]
14	B	- [With around view monitor]
14	G	- [With back view monitor]

15	R	- [With around view monitor]
16	W	- [With back view monitor]
16	B	- [With around view monitor]
16	R	- [With back view monitor]

Connector No.	B72
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
2	SHIELD	-
3	R	-
4	L	-
5	R	-
7	P	-

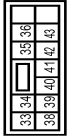
Connector No.	BB5
Connector Name	EVAP CANISTER VENT CONTROL VALVE
Connector Type	EG2FE-BS

HS



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

Connector No.	BB2
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	INS12FW-CS



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	BAT (PTC)
34	V	SLIDE MOTOR (BACKWARD)
35	Y	RECLINER MOTOR (FORWARD)
36	O	TILT MOTOR (DOWNWARD)
38	P	SLIDE MOTOR (FORWARD)
39	W	RECLINER MOTOR (BACKWARD)
40	GY	TILT MOTOR (UPWARD)
41	L	REAR LIFTER MOTOR (UPWARD)
42	G	REAR LIFTER MOTOR (DOWNWARD)
43	B	GND

Connector No.	BB8
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	INS04FW-CS

HS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	-
43	B	-
57	G	-
58	Y	-

Connector No.	D4
Connector Name	WIRE TO WIRE
Connector Type	NH80FN-TS12



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
2	R	- [With DRPO]
2	SB	- [Without DRPO]
4	BG	-
5	R	- [With DRPO]
5	Y	- [Without DRPO]
6	V	-
7	LG	-
8	G	-
9	GR	-
10	Y	-
11	SHIELD	-
12	BG	-
13	L	-
14	B	-
15	Y	-
16	GR	-
17	R	-
18	GR	-
19	W	-
20	W	-
21	LG	-
22	W	-
23	L	-
24	G	-
25	BR	-
26	R	-
27	BR	-
28	V	-
29	B	-
30	W	-
31	P	-
32	Y	-
33	BR	-
34	L	-
35	R	-
36	GR	-

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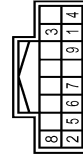
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

37	G	--	
40	P	--	
41	L	--	
43	BG	--	
44	B	--	
46	W	--	
47	R	--	
49	BR	--	
50	B	--	
52	V	--	
53	GR	--	
55	GR	--	
56	BR	--	
57	R	--	
58	L	--	
59	V	--	
60	G	--	
61	BG	--	
62	Y	--	
63	SB	--	
64	B	--	
65	Y	--	
66	BR	--	
68	Y	--	
69	L	--	
70	W	--	
71	LG	--	
72	P	--	

Connector No.	D9
Connector Name	SEAT MEMORY SWITCH
Connector Type	H18BY-NH



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

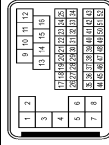
7	P	--
8	L	--
9	G	--

Connector No.	E1
Connector Name	STARTER MOTOR
Connector Type	Z434B-51E61



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

Connector No.	E10
Connector Name	WIRE TO WIRE
Connector Type	SXA38MB-R5B-SR23



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

15	LG	--
16	BR	--
17	B	--
18	B	--
19	GR	--
20	G	--
21	V	--
22	Y	--
23	L	--
24	GR	--
25	V	--
26	BR	--
27	W	--
28	V	--
29	BR	--
30	R	--
31	P	--
32	G	--
33	B	--
34	BG	--
35	LG	--
36	W	--
37	SHIELD	--
38	L	--
39	P	--
40	R	--
41	W	--
42	LG	--
43	G	--
44	Y	--
45	SHIELD	--
46	SHIELD	--
47	W	--
48	BR	--
49	G	--
50	B	--
51	SB	--
52	R	--

Connector No.	E15
Connector Name	FRONT FOG LAMP LH
Connector Type	FHZ02FB



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

Connector No.	E16
Connector Name	FRONT FOG LAMP RH
Connector Type	FHZ02FB



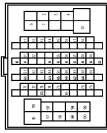
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	--
2	B	--

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH80FT-CSS16-TM

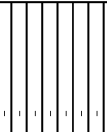


H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	-
3	LG	-
4	BR	-
6	V	-
7	L	-
10	BR	-
11	L	-
12	GR	-
13	W	-
14	B	-
15	SB	-
16	Y	-
17	BR	-
18	P	-
31	Y	-
32	GR	-
35	GR	-
36	R	-
37	V	-
38	Y	-
39	Y	-
40	SB	-
41	LG	-
44	Y	-
45	W	-
46	B	-
47	G	-
48	SHIELD	-
49	R	-
50	BR	-
51	L	-
52	W	-
53	V	-
54	P	-
55	W	-
56	SB	-

## BATTERY POWER SUPPLY

Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH80FT-CSS16-TM

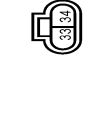


H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
57	BG	-
58	B	-
59	W	-
61	Y	-
64	SB	-
65	GR	-
66	CR	-
67	LG	-
68	BG	-
71	LG	-
72	V	-
73	G	-
74	BR	-
75	V	-
78	P	-
79	SB	-
83	R	-
86	BG	-
91	G	-
92	Y	-
94	GR	-
95	BG	-
96	W	-
97	LG	-
98	L	-
99	P	-
100	SHIELD	-

## BATTERY POWER SUPPLY

Connector No.	E60
Connector Name	STEERING ANGLE SUB CONTROL MODULE
Connector Type	Y02FB-TV



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
33	B	GROUND
34	G	BATTERY POWER SUPPLY

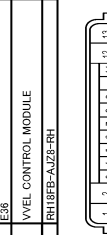


H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	B	GROUND
3	B	VALVE BATTERY
4	Y	MOTOR BATTERY
5	LG	STOP LAMP SW SIGNAL (With ICC)
6	V	STOP LAMP SW SIGNAL (With ASSD)
7	GR	RR LH WHEEL SENSOR SIGNAL
8	G	RR LH WHEEL SENSOR POWER SUPPLY
9	BR	FR RH WHEEL SENSOR SIGNAL
10	GR	FR RH WHEEL SENSOR POWER SUPPLY
13	R	VACUUM SENSOR SIGNAL
15	R	CAN-L [With Gateway]
17	Y	RR RH WHEEL SENSOR SIGNAL
18	V	RR RH WHEEL SENSOR POWER SUPPLY
19	SB	FR LH WHEEL SENSOR SIGNAL
20	BG	FR LH WHEEL SENSOR POWER SUPPLY
25	L	CAN-H
28	G	VACUUM SENSOR POWER SUPPLY

## BATTERY POWER SUPPLY

Connector No.	E38
Connector Name	VVEL CONTROL MODULE
Connector Type	RH18FB-AJ26-RH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	VVEL ACTUATOR MOTOR POWER SUPPLY (BANK 2)
2	L/B	VVEL ACTUATOR MOTOR HIGH LIFT (BANK 2)
3	G	VVEL CONTROL SHIF POSITION SENSOR 1 (BANK 1)
4	W	SHIF POSITION VVEL CONTROL SHIF POSITION SENSOR 1 (BANK 1)
5	R	VVEL CONTROL SHIF POSITION SENSOR 1 (BANK 2)
6	B	SHIF POSITION VVEL CONTROL SHIF POSITION SENSOR 1 (BANK 2)
7	SB	POWER SUPPLY FOR VVEL CONTROL MODULE
8	BG	SHIF POSITION VVEL CONTROL SHIF POSITION SENSOR 1 (BANK 1)
9	LG	SHIF POSITION VVEL CONTROL SHIF POSITION SENSOR 1 (BANK 2)
11	GR	ENGINE COMMUNICATION LINE
12	G	VVEL ACTUATOR MOTOR HIGH LIFT (BANK 1)
13	Y	VVEL ACTUATOR MOTOR POWER SUPPLY (BANK 1)
14	B/Y	VVEL CONTROL MODULE GROUND
15	L/Y	VVEL ACTUATOR MOTOR LOW LIFT (BANK 2)
16	R	SHIF POSITION VVEL CONTROL SHIF POSITION SENSOR 1 (BANK 1)
17	G	VVEL CONTROL SHIF POSITION SENSOR 2 (BANK 1)
18	G	VVEL CONTROL SHIF POSITION SENSOR 2 (BANK 2)
19	W	SHIF POSITION VVEL CONTROL SHIF POSITION SENSOR 2 (BANK 1)
20	BR	SHIF POSITION VVEL CONTROL SHIF POSITION SENSOR 2 (BANK 2)
21	V	VVEL ACTUATOR MOTOR RELAY ABSORT SIGNAL
22	P	SENSOR POWER SUPPLY (VVEL SENSOR 2 (BANK 1))
23	Y	VVEL ACTUATOR MOTOR RELAY
24	L	ENGINE COMMUNICATION LINE
25	BR	VVEL CONTROL MOTOR (LOW LIFT) (BANK 1)

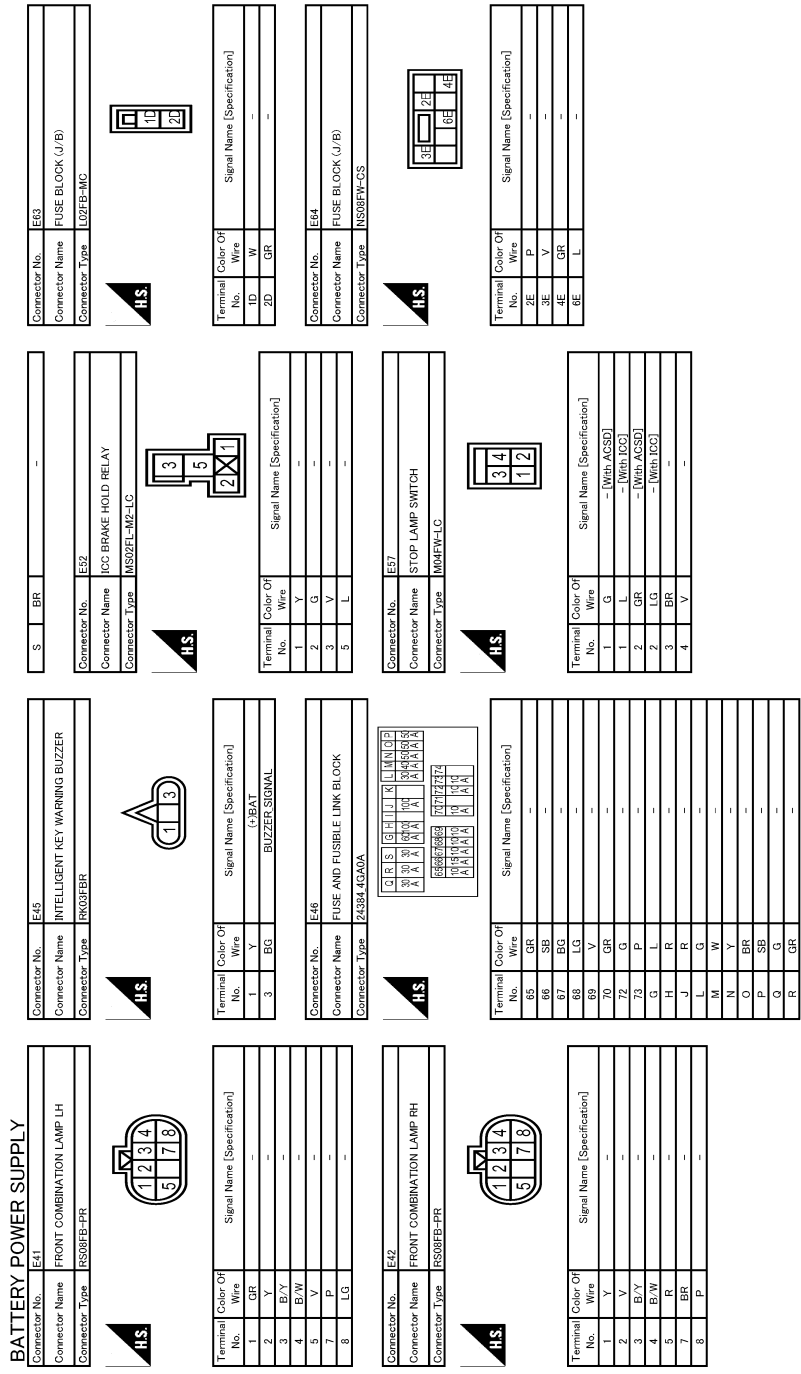
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



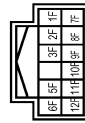
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

Connector No.	E85
Connector Name	FUSE BLOCK (J/B)
Connector Type	IH12PT-1H



Terminal No.	Color	Wire	Signal Name [Specification]
10F	W	-	-
11F	G	-	-
12F	W	-	-
1F	V	-	-
2F	BR	-	-
3F	P	-	-
5F	P	-	-
6F	L	-	-
7F	R	-	-
8F	L	-	-
9F	L	-	-

Connector No.	E86
Connector Name	WIRE TO WIRE
Connector Type	LO1FB-MC



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

Connector No.	E67
Connector Name	VVEL ACTUATOR MOTOR RELAY
Connector Type	Z434T-9F909



Terminal No.	Color	Wire	Signal Name [Specification]
1	L	-	-
2	Y	-	-
3	W	-	-
5	SB	-	-

Connector No.	E101
Connector Name	VEHICLE SECURITY HORN RELAY
Connector Type	V245B4-4GA0A



Terminal No.	Color	Wire	Signal Name [Specification]
1	GB	-	-
2	BC	-	-
3	Y	-	-

Connector No.	E102
Connector Name	HORN RELAY
Connector Type	Relay_Z43B4-4GA0A



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

Connector No.	E103
Connector Name	COOLING FAN RELAY 1
Connector Type	C243B4-4GA0A



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

Connector No.	E104
Connector Name	DAYTIME RUNNING LIGHT RELAY
Connector Type	D243B4-4GA0A



Terminal No.	Color	Wire	Signal Name [Specification]
1	L	-	-
2	W	-	-
3	GR	-	-
5	P	-	-
6	Y	-	-
7	G	-	-

Connector No.	E118
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	LO2FB-MC



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

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

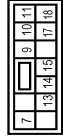
Connector No.	E119
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	MS4FW-LC



H.S.

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

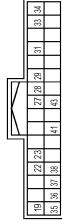
Connector No.	E120
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS12FW-OS



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
7	BL	-
8	BR	-
9	LG	-
10	LG	-
11	V	-
13	Y	-
14	SB	-
15	Y	-
17	GR	-
18	L	-

Connector No.	E121
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH32FW-NH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
19	G	-
22	BG	-
23	LG	-
27	GR	-
28	P	-
29	L	-
31	G	-
33	SB	-
34	Y	-
35	G	-
36	SB	-
37	GR	-
38	BR	-
41	GR	-
43	V	-

Connector No.	E123
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS10FW-CS



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
52	G	-
53	BR	-
54	Y	-
55	W	-
56	L	-

Connector No.	E124
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH12FW-NH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
65	BG	-
69	R	-
70	BR	-
71	Y	-
72	P	-

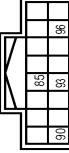
Connector No.	E125
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS8FW-CS



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
74	G	-
75	R	-
76	V	-
78	W	-
79	L	-
80	BR	-
81	P	-

Connector No.	E126
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TH18FW-NH



H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
85	L	-
90	BR	-
93	V	-
96	P	-

Connector No.	E127
Connector Name	BATTERY TERMINAL WITH FUSE LINK
Connector Type	LO27FB-MC



H.S.

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

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

**BATTERY POWER SUPPLY**

83	P	POWER SUPPLY FOR ECM (BACK-UP)
84	Y	SENSOR GROUND (AIR FUEL RATIO SENSOR BANK 2)
85	B	GROUND (AIR FUEL RATIO SENSOR BANK 1)
86	BR	GROUND (AIR FUEL RATIO SENSOR BANK 1)

Connector No.	F12
Connector Name	WIRE TO WIRE
Connector Type	SAA38FB-RSF-SHZ6



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/Y	
2	SHIELD	
3	L/B	
4	SHIELD	
5	BR	
6	GR	
7	G	
8	W	
9	W	
10	G	
11	R	
12	P	
13	L	
14	LG	
15	P	
16	Y	
17	L	
18	P	
19	GR	
20	BG	
21	LG	
22	W	
23	Y	
24	LG	
25	V	
26	W	
27	V	
28	BR	
29	LG	
30	R	

31	P	
32	GR	
33	BG	
34	LG	
35	LG	
36	SB	
37	SHIELD	
38	W	
39	Y	
40	G	
41	B	
42	GR	
43	R	
44	BG	
45	Y	
46	SHIELD	
47	W	
48	LG	
49	L	
50	R	
51	SB	
52	G	

Connector No.	F22
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 2)
Connector Type	RH04MB



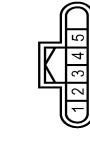
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	
2	LG	
3	SB	
4	BG	

Connector No.	F23
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 1)
Connector Type	RH04MB



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

Connector No.	F35
Connector Name	MASS AIR FLOW SENSOR (BANK 1)
Connector Type	RH08FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	
2	P	
3	SB	
4	LG	
5	Y	

Connector No.	F38
Connector Name	AIR FUEL RATIO (A/F) SENSOR (BANK 1)
Connector Type	RH04FCY-P



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

Connector No.	F45
Connector Name	P/WP GANISTER PULSE VOLUME CONTROL SOLINOID VALVE
Connector Type	ED2FL-RS-LQY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	POWER
2	GR	GND

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

Connector No.	F47
Connector Name	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)
Connector Type	E02FG-RS-LGY



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

Connector No.	F53
Connector Name	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)
Connector Type	E02FG-RS-LGY



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

Connector No.	F5B
Connector Name	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 2)
Connector Type	RH08FD3Y-P



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	
2	V	
3	GR	
4	Y	

Connector No.	F65
Connector Name	MASS AIR FLOW SENSOR (BANK 2)
Connector Type	RH08FB



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

Connector No.	F63
Connector Name	ALTERNATOR
Connector Type	HS03FB



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

Connector No.	F100
Connector Name	TCM TRANSMISSION CONTROL MODULE
Connector Type	SP10FG



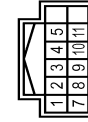
Terminal No.	Color Of Wire	Signal Name [Specification]
2	-	IGNITION POWER SUPPLY
3	-	BATTERY POWER SUPPLY (DIRECT BACK-UP)
4	-	IGNITION
5	-	K-LINE
6	-	GROUND
7	-	IGNITION POWER SUPPLY
8	-	BACK-UP LAMP RELAY
9	-	IGNITION
10	-	STARTER RELAY

Connector No.	M1
Connector Name	INTEGRAL SWITCH
Connector Type	TH24FH-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT
3	SB	AV COMM (L)
4	LG	AV COMM (H)
5	G	DOOR LOCK STATUS INDICATOR LAMP SIGNAL
7	W/B	DISK EJECT SIGNAL
8	G	HAZARD SIGNAL
13	B	ACC
14	V	ILLUMINATION CONTROL SIGNAL
15	B	DISK EJECT SIGNAL GROUND
16	BG	IGN
18	R	CAMERA SWITCH SIGNAL
19	BR	AIR BAG INDICATOR OFF SIGNAL
20	LG	

Connector No.	M7
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FH-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	
2	GR	
3	BG	
4	B	
5	G	
7	R	
8	V	

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

9	B	-
10	GR	-
11	R	-

Connector No.	M18
Connector Name	AV CONTROL UNIT
Connector Type	TH18PW-CSZ



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	SHIELD
2	L	SOUND SIGNAL FRONT LH (+)
3	R	SOUND SIGNAL FRONT LH (-)
4	LG	SOUND SIGNAL REAR LH (+)
5	SB	SOUND SIGNAL REAR LH (-)
7	SB	ACC
8	W/B	DISK EJECT SIGNAL
9	BG	DISK EJECT SIGNAL GND
10	SHIELD	SHIELD
11	LG	SOUND SIGNAL FRONT RH (+)
12	P	SOUND SIGNAL FRONT RH (-)
13	B	SOUND SIGNAL REAR RH (+)
14	P	SOUND SIGNAL REAR RH (-)
19	Y	BAT
20	B	GND

Connector No.	M13
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH13FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	PUSH SW
3	Y	SENS PWR SPLY
4	BG	OPTICAL SENSOR
5	LG	-
10	W	GOMBI SW OUTPUT 5
11	SB	GOMBI SW OUTPUT 4
12	L	GOMBI SW OUTPUT 3
13	G	GOMBI SW OUTPUT 2
14	P	GOMBI SW OUTPUT 1
15	G	ONE TOUCH UNLK SENS (DR)
16	G	ONE TOUCH UNLK SENS (PASS)
17	P	RECEIVER/SENSOR GND
18	L	SECURITY IND LAMP CONT
20	R	DET EXT SW
21	SB	STOP LAMP CONT
28	R	EXTENS CLAMP USE SW
29	P	SECC CLAMP SW
30	W	DR DOOR UNLK SENS
33	V	TR LID OP CANCEL SW
36	G	HAZARD SW
38	BR	P/N POSITION

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FE408FW-FH4E-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
129	LG	INT ROOM LAMP PWR SPLY
130	P	PASS DOOR UNLK OUTPUT
131	Y	BAT (FUSE)
132	V	RR, RL DOOR UNLK OUTPUT
133	W	RR, RL DOOR UNLK OUTPUT
134	B	GND
135	V	FRONT DOOR FL LID LK OUTPUT
136	V	INT ROOM LAMP CONT
137	LG	FRONT DOOR, FL LID UNLK OUTPUT
138	P	REAR DOORS ACT PWR SPLY
139	W	BAT (F/L)
140	BR	IGN ON
141	R	PWR SPLY (BAT)
142	R	FRONT DOORS, FL LID ACT PWR SPLY
143	B	GND

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-GS16-TM4



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

7	W	-
8	V	-
9	BR	-
10	BR	-
11	BR	-
12	LG	-
13	GR	-
24	Y	-
25	W	-
31	BR	-
32	B	-
33	B	-
34	V	-
35	P	-
36	W	-
37	SB	-
38	LG	-
40	P	-
41	G	-
42	BR	-
43	BR	-
44	BR	-
46	BG	-
51	Y	-
52	V	-
54	R	-
55	R	-
57	W	-
58	V	-
59	RG	-
62	BG	-
64	BY	-
65	W	-
70	LG	-
71	W	-
72	B	-
74	L	-
75	W	-
76	BR	-
77	B	-
81	B	-
83	BG	-
84	L	-
85	W	-
86	B	-
88	G	-
91	GR	-
94	GR	-
96	W	-

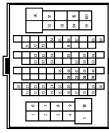
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

37	V	--
38	BR	--

Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	TH80MM-CS16-TM



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	--
2	L	--
3	R	--
4	SHIELD	--
5	G	--
6	BG	--
7	LG	--
8	P	--
9	SHIELD	--
10	V	--
11	GR	--
12	V	--
13	LG	--
14	LG	--
15	SB	-- [With DCM]
16	V	-- [Without DCM]
17	Y	--
18	L	--
19	G	--
20	GR	--
21	R	--
22	W	--
23	L	--
24	V	--
25	LG	--
26	GR	--
29	SB	--
30	LG	--
36	R	--
37	R	--
38	W	--

39	V	--
43	G	--
46	SHIELD	--
47	G	--
48	GR	--
49	SB	--
52	Y	--
53	R	--
54	GR	--
57	R	--
58	SB	--
59	LG	--
62	V	--
63	L	--
64	W	--
66	R	--
68	L	--
69	P	--
71	R	--
72	G	--
73	SHIELD	--
76	V	--
84	BR	--
85	BR	--
86	V	--
87	LG	--
89	BR	--
90	V	--
92	W	--
93	R	--
94	R	--
98	W	--
99	L	--
99	BR	--
100	BR	--

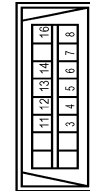
Connector No.	M24
Connector Name	CAN GATEWAY
Connector Type	TH12FW-NH



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
3	W	BATTERY
4	L	CAN2-H
5	B	GND
6	L	CAN3-H
7	P	CAN-H
9	R	IGN
10	R	CAN2-L
11	B	GND
12	R	CAN3-L

Connector No.	M25
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16TW

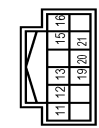


HS

Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	AV COMM (L)
4	B	EARTH
5	B	EARTH
6	L	CAN-H
7	V	KLINE
8	W	IGN SW
11	LG	AV COMM (H)
12	R	CAN-L
13	L	CAN-H
14	P	CAN-L

16	W	POWER
----	---	-------

Connector No.	M31
Connector Name	EXTERNAL DATA INPUT BOX
Connector Type	TH12FW-NH



HS

Terminal No.	Color Of Wire	Signal Name [Specification]
11	W	AUX SOUND SIGNAL LH
12	R	AUX SOUND SIGNAL RH
13	B	AUX SOUND SIGNAL RH
15	B	GND
16	Y	BAT
19	L	AUX IMAGE SIGNAL (+)
20	V	AUX IMAGE SIGNAL (-)
21	SB	ACC

Connector No.	M33
Connector Name	WIPE TO WIRE
Connector Type	NH60MM-TS12



HS

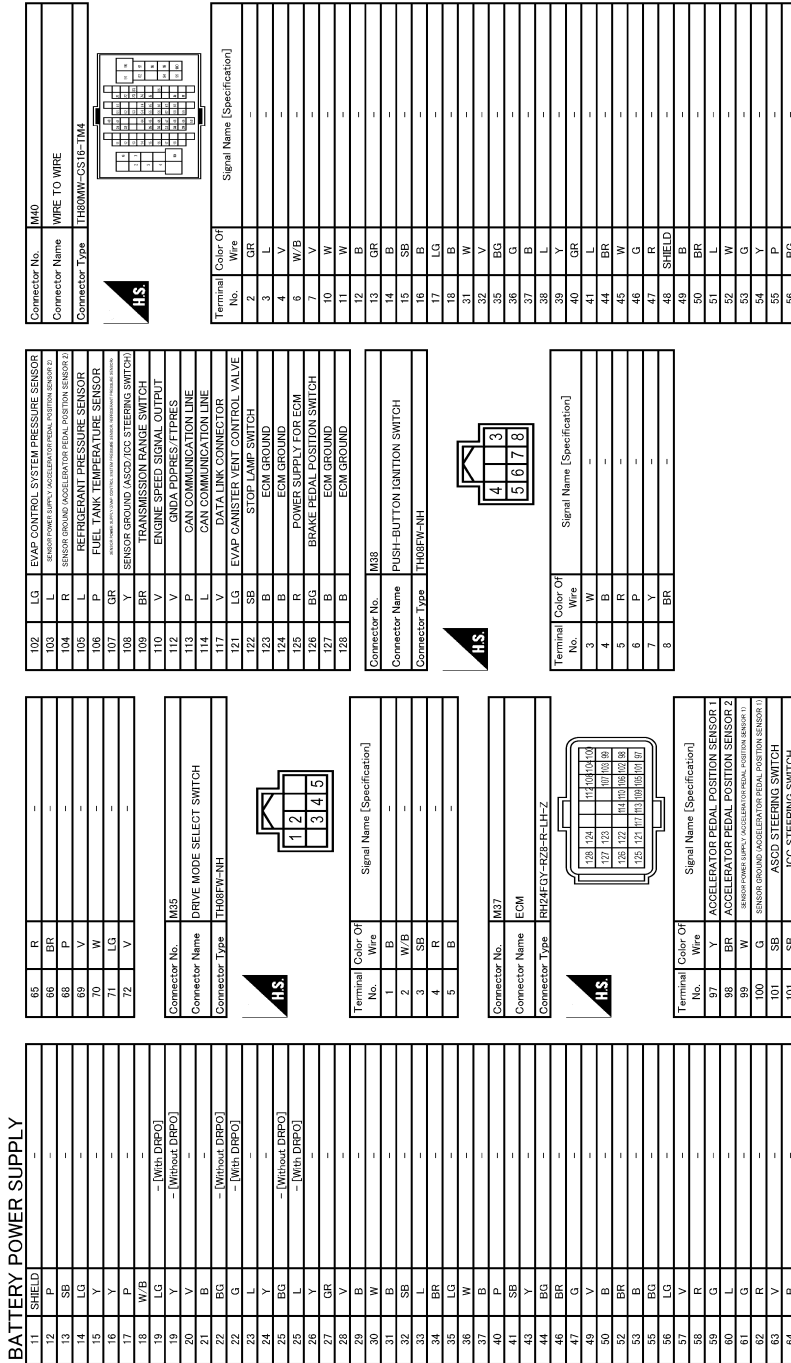
Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	--
4	G	-- [With DRPO]
4	SB	-- [Without DRPO]
5	G	--
6	R	--
7	R	--
8	GR	--
9	GR	--
10	W	--

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



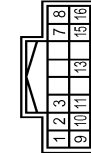
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## BATTERY POWER SUPPLY

Terminal No.	Color	Wire	Signal Name [Specification]
57	GR	--	--
58	B	--	--
59	SB	--	--
60	W	--	--
61	W/B	--	--
62	R	--	--
63	V	--	--
64	V	--	--
65	V	--	--
66	V	--	--
67	LG	--	--
68	BG	--	--
71	V	--	--
72	LG	--	--
73	R	--	--
74	BR	--	--
75	B	--	--
78	G	--	--
79	R	--	--
83	R	--	--
86	V	--	--
91	W	--	--
92	R	--	--
94	BG	--	--
95	BR	--	--
96	W	--	--
97	LG	--	--
98	Y	--	--
99	BR	--	--
100	SHIELD	--	--

Terminal No.	Color	Wire	Signal Name [Specification]
1	BR	--	--
2	Y	--	--
3	W/B	--	--
7	G	--	--
8	L	--	--
9	BG	--	--
10	B	--	--



Terminal No.	Color	Wire	Signal Name [Specification]
1	BR	--	--
2	Y	--	--
3	W/B	--	--
7	G	--	--
8	L	--	--
9	BG	--	--
10	B	--	--

Terminal No.	Color	Wire	Signal Name [Specification]
11	B	--	--
13	LG	--	--
18	W	--	--
19	R	--	--
26	R	--	--

Terminal No.	Color	Wire	Signal Name [Specification]
25	SB	--	--
26	G	--	--
27	W	--	--
28	BR	--	--
29	L	--	--
30	B	--	--



Terminal No.	Color	Wire	Signal Name [Specification]
25	SB	--	--
26	G	--	--
27	W	--	--
28	BR	--	--
29	L	--	--
30	B	--	--

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



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

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

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



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

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



Terminal No.	Color	Wire	Signal Name [Specification]
1	R	--	--
2	B	--	--
4	BR	--	--
5	SB	--	--
6	V	--	--
7	GR	--	--

Terminal No.	Color	Wire	Signal Name [Specification]
41	L	--	--
42	P	--	--
43	B	--	--
44	Y	--	--
45	W	--	--
46	R	--	--
47	LG	--	--
48	SB	--	--
51	BR	--	--
52	B	--	--

Terminal No.	Color	Wire	Signal Name [Specification]
41	L	--	--
42	P	--	--
43	B	--	--
44	Y	--	--
45	W	--	--
46	R	--	--
47	LG	--	--
48	SB	--	--
51	BR	--	--
52	B	--	--



Terminal No.	Color	Wire	Signal Name [Specification]
41	L	--	--
42	P	--	--
43	B	--	--
44	Y	--	--
45	W	--	--
46	R	--	--
47	LG	--	--
48	SB	--	--
51	BR	--	--
52	B	--	--

Terminal No.	Color	Wire	Signal Name [Specification]
1	R	--	--
2	B	--	--
4	BR	--	--
5	SB	--	--
6	V	--	--
7	GR	--	--



Terminal No.	Color	Wire	Signal Name [Specification]
1	R	--	--
2	B	--	--
4	BR	--	--
5	SB	--	--
6	V	--	--
7	GR	--	--

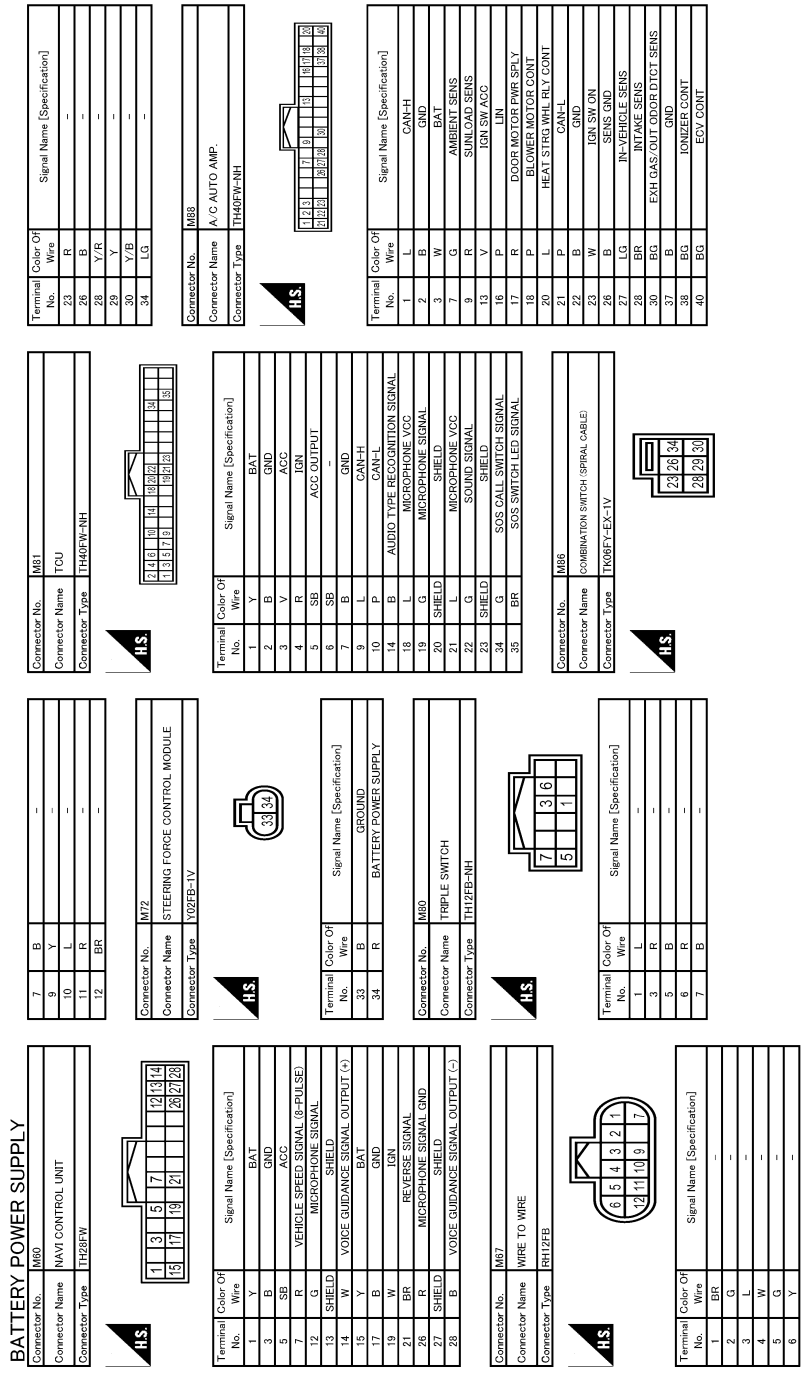
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

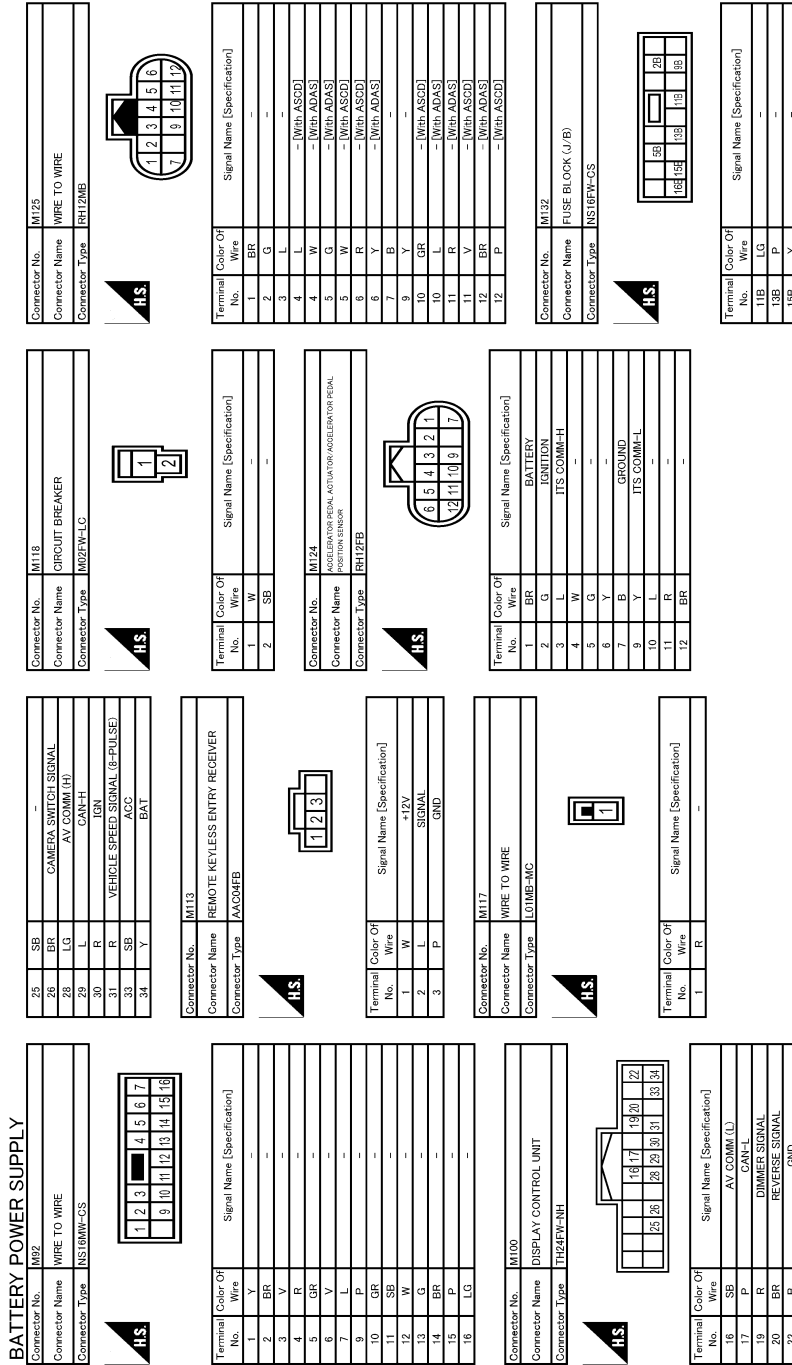


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# POWER SUPPLY ROUTING CIRCUIT

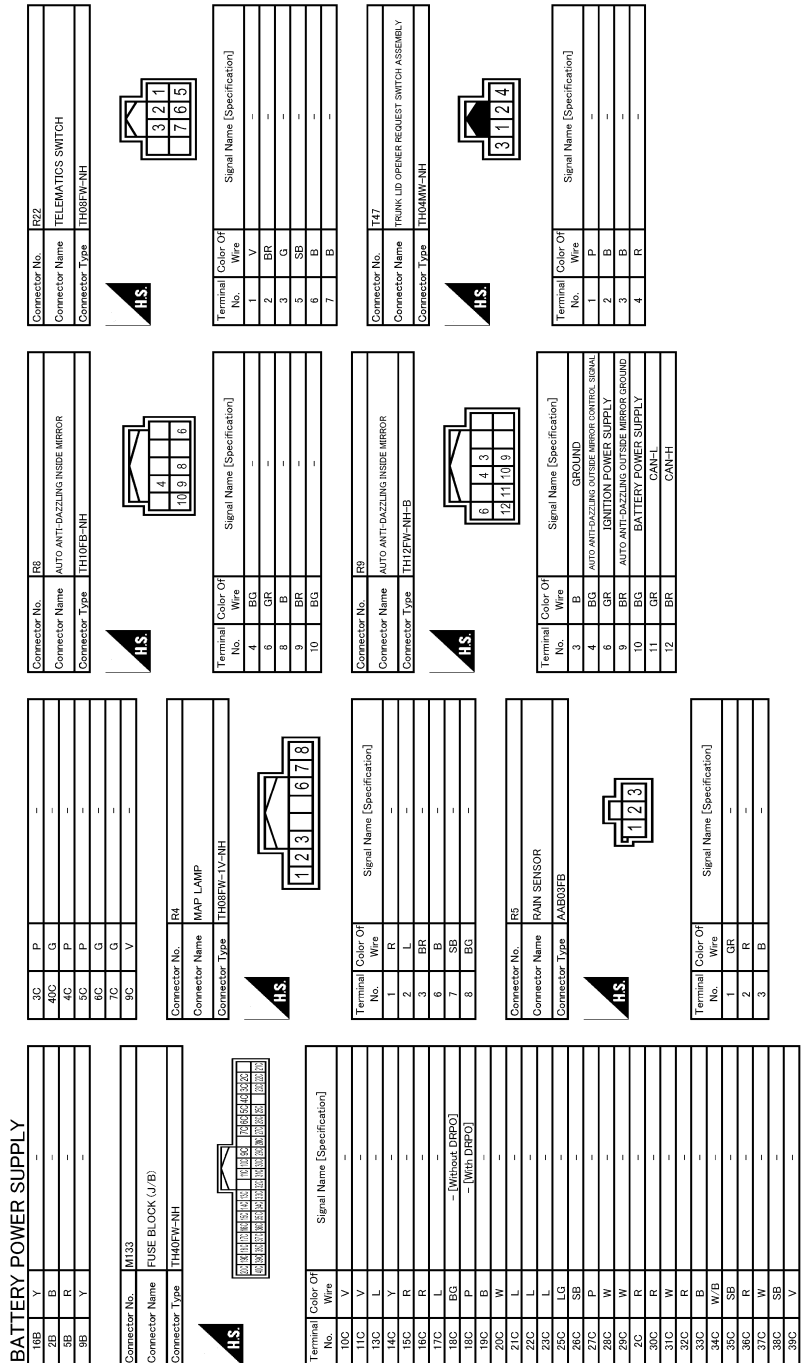
< WIRING DIAGRAM >



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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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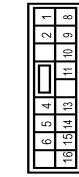
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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## BATTERY POWER SUPPLY

Connector No.	T48
Connector Name	WIRE TO WIRE
Connector Type	NS38FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BG	-
4	L	-
5	P	-
6	G	-
8	B	-
9	R	-
10	P	-
11	L	-
13	G	- [With around view monitor]
13	L	- [With back view monitor]
14	B	- [With back view monitor]
14	R	- [With around view monitor]
15	B	- [With around view monitor]
15	W	- [With back view monitor]
16	R	- [With back view monitor]
16	W	- [With around view monitor]

Connector No.	T52
Connector Name	REAR COMBINATION LAMP RH (TRUNK LID SIDE)
Connector Type	NS38FW-CS



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

Connector No.	T51
Connector Name	REAR COMBINATION LAMP LH (TRUNK LID SIDE)
Connector Type	NS38FW-CS



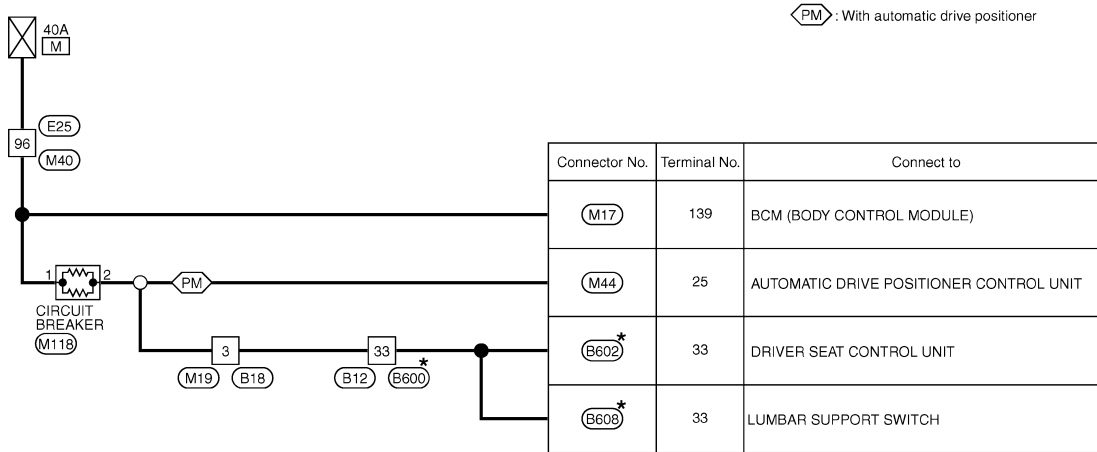
Terminal No.	Color Of Wire	Signal Name [Specification]
2	BG	-
3	P	-
4	B	-

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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

INFOID:000000009239712



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

2013/05/17

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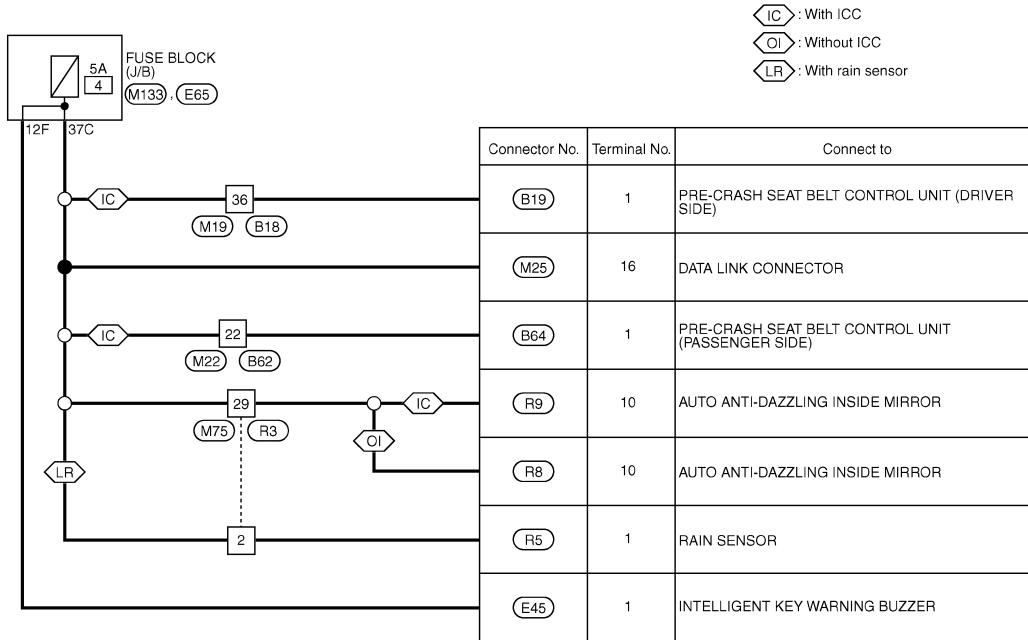
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 4 -

INFOID:000000009621397

### BATTERY POWER SUPPLY FUSE No. 4



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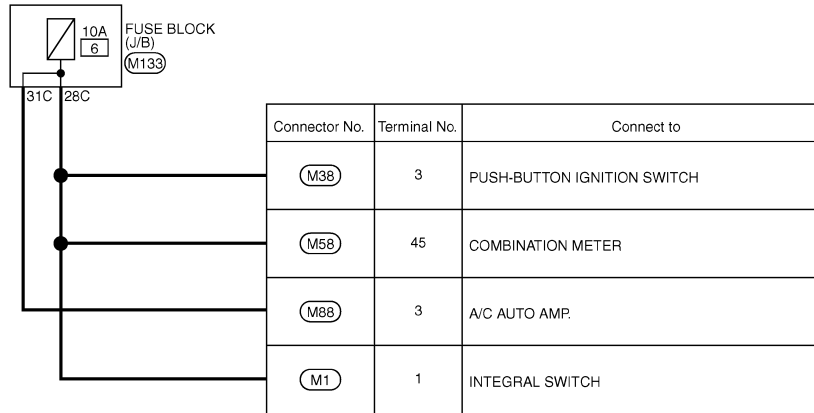
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 6 - BATTERY POWER SUPPLY FUSE No. 6

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2013/05/17

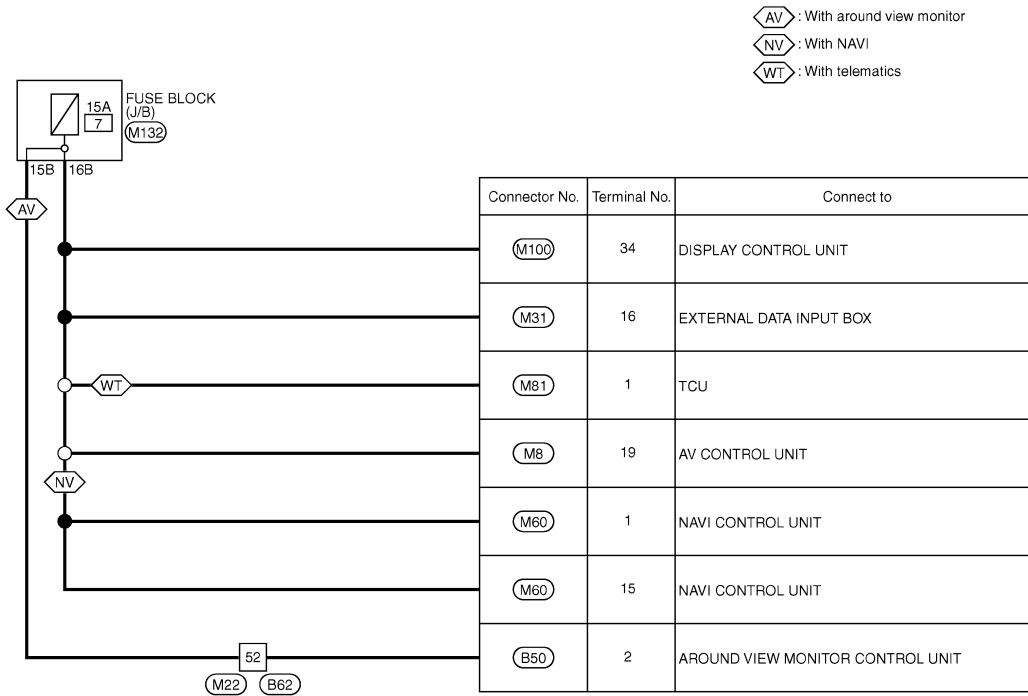
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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

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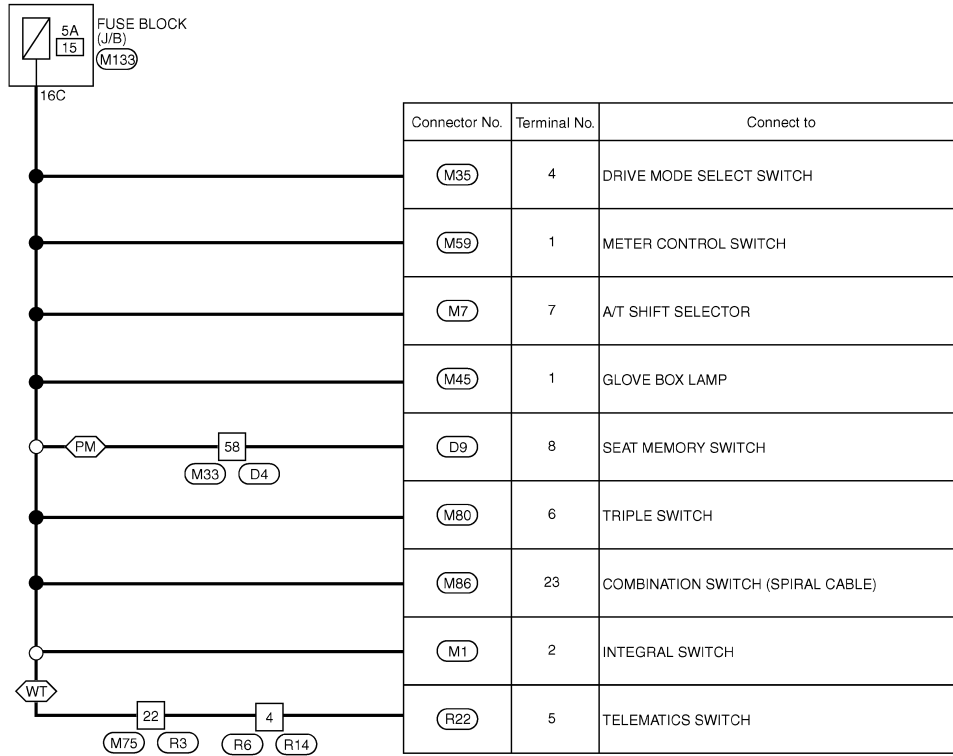
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 15 - BATTERY POWER SUPPLY FUSE No. 15

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⬡PM⬢ : With automatic drive positioner  
⬡WT⬢ : With telematics



2013/05/17

JRMWE0036GB

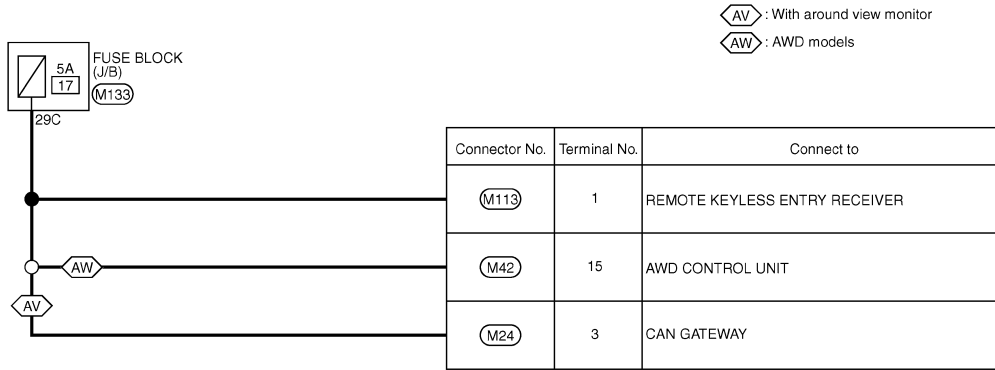


# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 17 - BATTERY POWER SUPPLY FUSE No. 17

INFOID:000000009239716



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

PG

2013/05/17

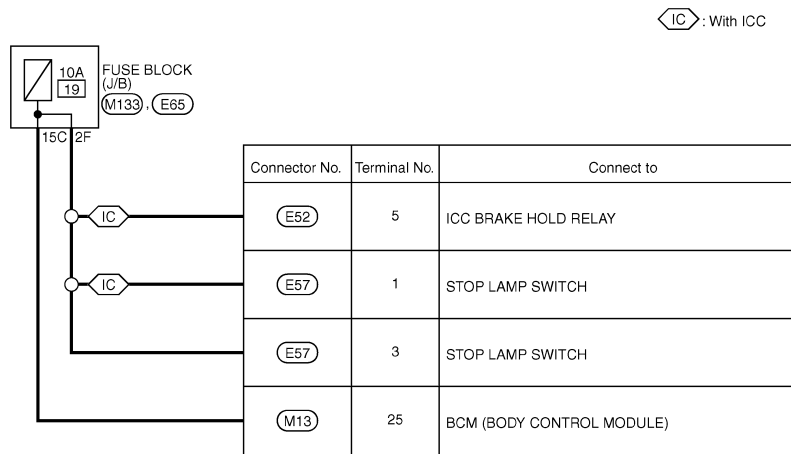
JRMWE0037GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 19 - BATTERY POWER SUPPLY FUSE No. 19

INFOID:000000009239717



2013/05/17

JRMWE0038GB

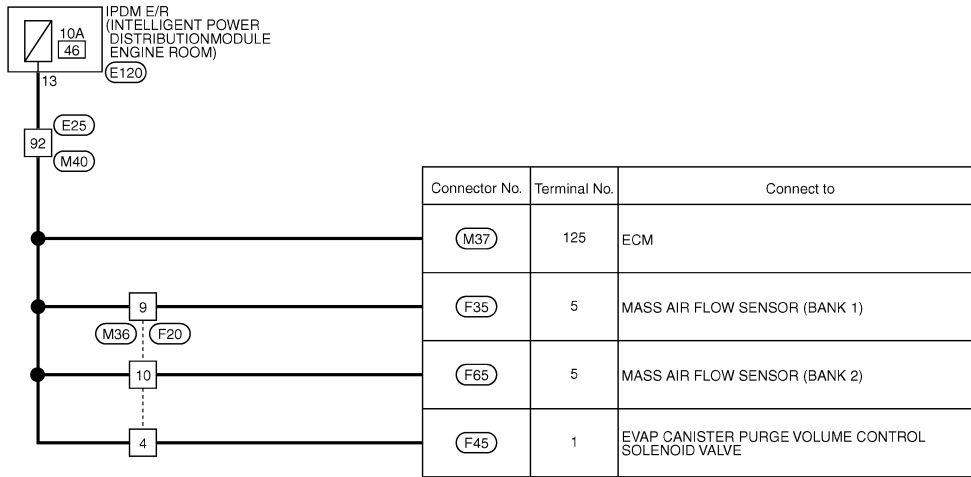
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 46 -

INFOID:000000009239718

### BATTERY POWER SUPPLY FUSE No. 46



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

2013/05/17

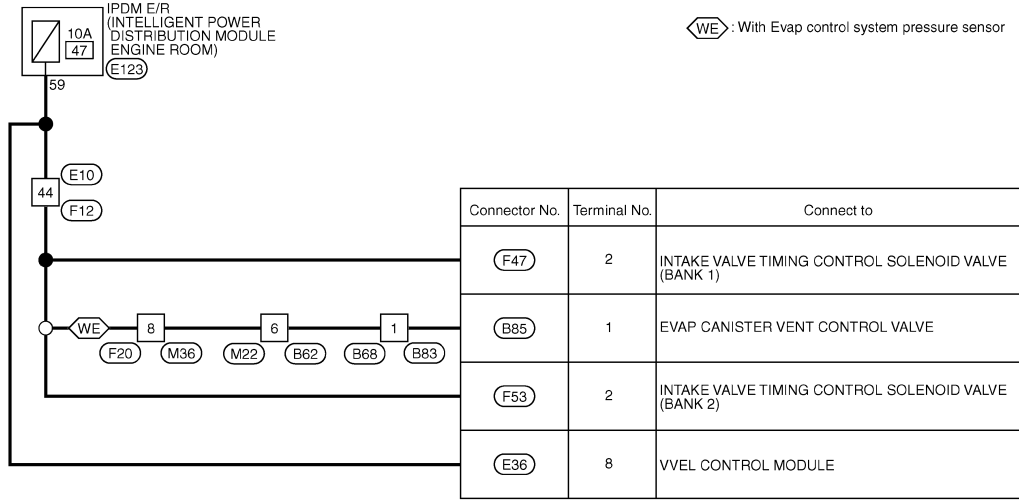
JRMWE0039GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 47 - BATTERY POWER SUPPLY FUSE No. 47

INFOID:000000009239719



2013/05/17

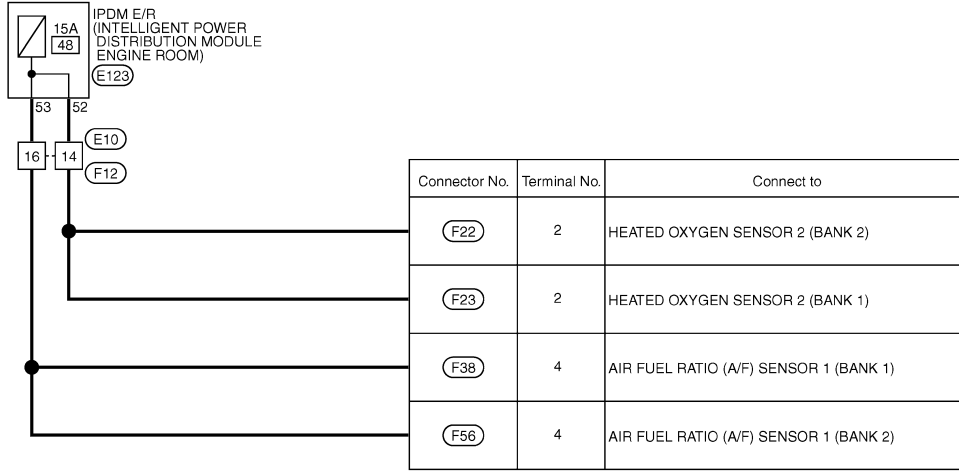
JRMWE0040GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 48 - BATTERY POWER SUPPLY FUSE No. 48

INFOID:000000009621399



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

PG

2013/05/17

JRMWE0041GB

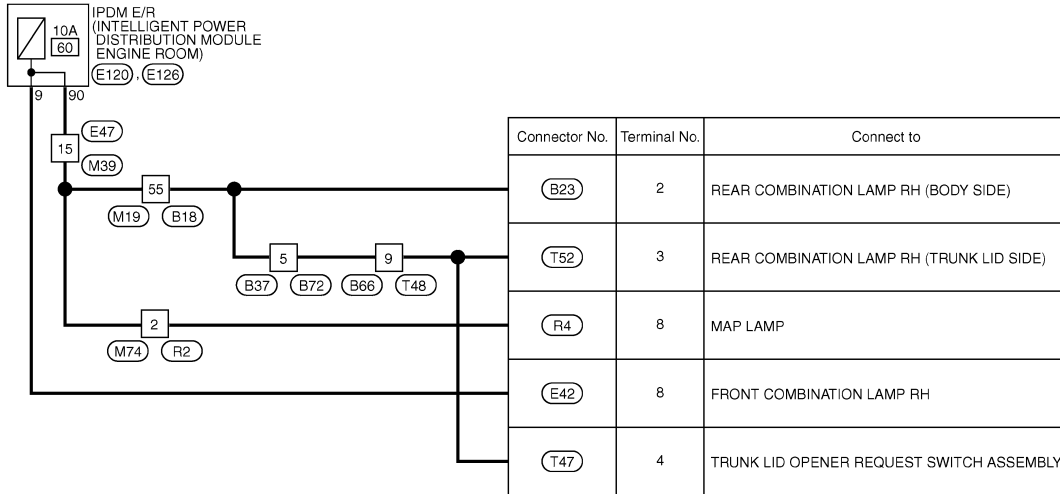
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 60 -

INFOID:000000009621398

### BATTERY POWER SUPPLY FUSE No. 60



2013/05/17

JRMWE0042GB

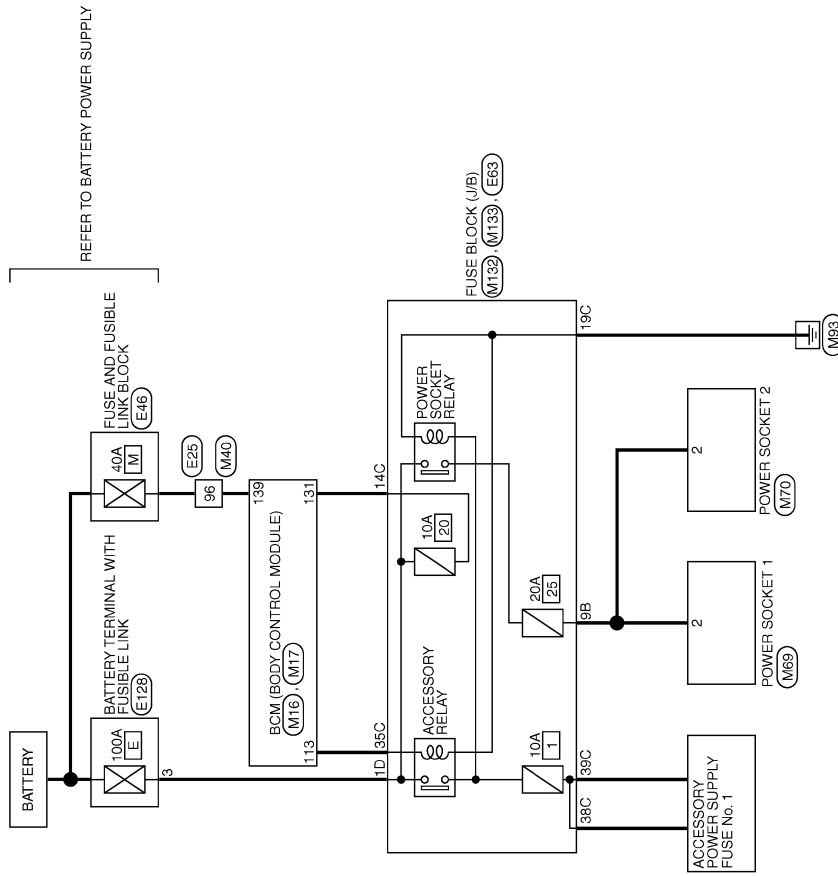
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:000000009239720

### ACCESSORY POWER SUPPLY



2013/05/17

JRMWE0043GB

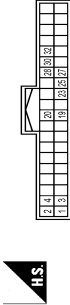
A  
B  
C  
D  
E  
F  
G  
H  
I  
J  
K  
L  
PG  
N  
O  
P

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## ACCESSORY POWER SUPPLY

Connector No.	B59
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH46FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	B	W	GND
2	P	W	GND
3	L	W	IGN
4	P	W	ACC
19	LG	W	AV COMM (H)
20	P	W	AV COMM (L)
23	SHIELD	W	AV COMM GND
25	BG	W	REVERSE SIGNAL
27	L	W	CAN-H
28	P	W	CAN-L (With ADAS)
28	R	W	CAN-L (With ASCD)
30	W	W	RETRACT MOTOR OPERATION SIGNAL (OPEN)
32	G	W	RETRACT MOTOR OPERATION SIGNAL (CLOSE)

Connector No.	B55
Connector Name	BOSE AMP.
Connector Type	TH46FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
43	W	W	REAR MICROPHONE GND
44	R	W	VOICE GUIDANCE SIGNAL (-)
45	B	W	SOUND SIGNAL LH (-)
46	B	W	SOUND SIGNAL RH (-)
52	R	W	FRONT MICROPHONE GND
54	P	W	AV COMM (L)

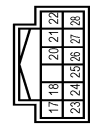
Terminal No.	Color	Wire	Signal Name [Specification]
56	V	W	ACC
62	BG	W	REAR MICROPHONE SIGNAL
64	G	W	VOICE GUIDANCE SIGNAL (+)
65	L	W	SOUND SIGNAL LH (+)
66	W	W	SOUND SIGNAL RH (+)
72	G	W	FRONT MICROPHONE SIGNAL
74	LG	W	AV COMM (H)
76	G	W	STEP LAMP CONTROL SIGNAL
78	W	W	ENGINE SPEED SIGNAL
79	SHIELD	W	SHIELD

Connector No.	D12
Connector Name	WINDOW MAIN SWITCH (DOOR MIRROR REMOTE CONTROL SWITCH)
Connector Type	TH12PW-NH



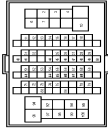
Terminal No.	Color	Wire	Signal Name [Specification]
17	P	W	—
18	BG	W	—
21	G	W	—
22	V	W	—
23	Y	W	—
24	GR	W	—
25	L	W	—
26	W	W	—
27	BR	W	—
28	R	W	—

Connector No.	D5E
Connector Name	REAR WINDOW MAIN SWITCH (DOOR MIRROR REMOTE CONTROL SWITCH)
Connector Type	TH12PW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
17	B	W	—
18	LG	W	—
20	SG	W	—
21	LS	W	—
22	V	W	—
23	Y	W	—
24	GR	W	—
25	L	W	—
26	W	W	—
27	BR	W	—
28	R	W	—

Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH8PW-C516-TM



Terminal No.	Color	Wire	Signal Name [Specification]
2	W	W	—
3	GR	W	—
6	V	W	—
7	L	W	—
10	BR	W	—
11	L	W	—
12	GR	W	—

Terminal No.	Color	Wire	Signal Name [Specification]
13	W	W	—
14	B	W	—
15	SB	W	—
16	Y	W	—
17	BR	W	—
18	P	W	—
31	Y	W	—
32	GR	W	—
35	GR	W	—
36	R	W	—
37	V	W	—
38	L	W	—
39	Y	W	—
40	SB	W	—
41	G	W	—
44	Y	W	—
45	W	W	—
46	B	W	—
47	G	W	—
48	SHIELD	W	—
49	R	W	—
50	BR	W	—
51	L	W	—
52	W	W	—
53	V	W	—
54	P	W	—
55	W	W	—
56	SB	W	—
57	EG	W	—
58	W	W	—
59	W	W	—
61	R	W	—
64	Y	W	—
65	SB	W	—
66	GR	W	—
67	LG	W	—
68	BG	W	—
71	LG	W	—
72	V	W	—
73	G	W	—
74	BR	W	—
75	V	W	—
78	P	W	—
79	SB	W	—
83	R	W	—
86	BG	W	—
91	G	W	—
92	Y	W	—
94	GR	W	—



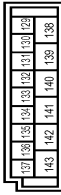


# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

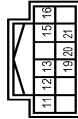
## ACCESSORY POWER SUPPLY

Connector No.	M17
Connector Name	BOM (BODY CONTROL MODULE)
Connector Type	FEABREW-FH46-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
127	W	INT ROOM LAMP PWR SPLY
128	LG	PASS DOOR UNLK OUTPUT
129	B	BAT (FUS3)
131	Y	RR RL DOOR UNLK OUTPUT
132	BR	RR RL DOOR UNLK OUTPUT
134	B	GND
135	V	FRONT DOOR FL LID LK OUTPUT
136	V	INT ROOM LAMP CONT
137	LG	FRONT DOOR FL LID UNLK OUTPUT
138	P	REAR DOORS ACT PWR SPLY
139	W	BAT (F7, L)
140	BR	IGN ON
141	R	PWR SPLY (BAT)
142	R	FRONT DOORS FL LID ACT PWR SPLY
143	B	GND

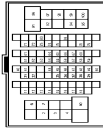
Connector No.	M31
Connector Name	EXTERNAL DATA INPUT BOX
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
11	W	AUX SOUND SIGNAL LH
12	R	AUX SOUND SIGNAL GND
13	B	AUX SOUND SIGNAL RH
15	B	GND
16	Y	BAT

18	L	AUX IMAGE SIGNAL (A)
20	Y	AUX IMAGE SIGNAL (C)
21	SB	ACC

Connector No.	M40
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	GR	
3	L	
4	V	
6	W/B	
7	V	
10	W	
11	W	
12	B	
13	GR	
14	SB	
15	SB	
16	RS	
17	LG	
18	B	
31	W	
32	V	
35	BG	
36	G	
37	B	
38	L	
39	Y	
40	GR	
41	BR	
42	BR	
43	GR	
44	R	
45	GR	
46	LG	
47	R	
48	SHIELD	
49	B	
50	BR	
51	L	

52	W	
53	G	
54	Y	
55	P	
56	BG	
57	GR	
58	B	
59	SB	
61	W/B	
64	Y	
65	R	
66	V	
67	LG	
68	BG	
69	LG	
72	LS	
73	R	
74	BR	
75	B	
76	G	
79	R	
83	R	
86	V	
88	W	
92	R	
94	BG	
95	BR	
96	W	
98	Y	
99	Y	
99	BR	
100	SHIELD	

Connector No.	M57
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
7	G	SECURITY SIGNAL
8	B	
11	W	ALTERNATOR SIGNAL
12	G	LED HEADLAMP (RH) WARNING SIGNAL
13	BR	LED HEADLAMP (LH) WARNING SIGNAL
14	V	ACC POWER SUPPLY
16	V	AIR BAG SIGNAL
17	BR	METER CONTROL SWITCH GROUND
18	SB	TRIP/RESET SIGNAL
21	B	STEERING SWITCH SIGNAL GROUND
22	P	STEERING SWITCH SIGNAL A
23	W/B	STEERING SWITCH SIGNAL B
24	W	WASHER FLUID SWITCH SIGNAL
25	LG	BRAKE FLUID LEVEL SWITCH SIGNAL
26	V	PARKING BRAKE SWITCH SIGNAL
27	G	PASSENGER SEAT BELT WARNING SIGNAL
28	W	SEAT BELT BUZZLE SWITCH SIGNAL (DRIVER SIDE)
30	SB	MANUAL MODE SIGNAL
31	G	NON-MANUAL MODE SIGNAL
32	BG	MANUAL MODE SHIFT UP SIGNAL
33	GR	MANUAL MODE SHIFT DOWN SIGNAL
34	BG	PADDLE SHIFTER UP SIGNAL
35	G	PADDLE SHIFTER DOWN SIGNAL
36	V	ILLUMINATION CONTROL SWITCH SIGNAL (L)
37	GR	ILLUMINATION CONTROL SWITCH SIGNAL (C)
38	R	ILLUMINATION CONTROL SWITCH SIGNAL (R)
39	L	VEHICLE SPEED SIGNAL (2-PULSE)

Connector No.	M60
Connector Name	NAVY CONTROL UNIT
Connector Type	TH28FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BAT
3	B	GND
5	SB	ACC
7	R	VEHICLE SPEED SIGNAL (8-PULSE)

JRMWE0046GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## ACCESSORY POWER SUPPLY

12	G	MICROPHONE SIGNAL
13	SHIELD	MICROPHONE SIGNAL
14	Y	VOICE GUIDANCE SIGNAL OUTPUT (C)
15	Y	VOICE GUIDANCE SIGNAL OUTPUT (C)
16	B	BAT
17	B	GND
18	W	IGN
19	W	IGN
20	BR	REVERSE SIGNAL
21	BR	REVERSE SIGNAL
22	R	MICROPHONE SIGNAL GND
23	R	MICROPHONE SIGNAL GND
24	SHIELD	SHIELD
25	SHIELD	SHIELD
26	B	VOICE GUIDANCE SIGNAL OUTPUT (C)
27	B	VOICE GUIDANCE SIGNAL OUTPUT (C)
28	B	VOICE GUIDANCE SIGNAL OUTPUT (C)

Connector No.	M89
Connector Name	POWER SOCKET 1
Connector Type	CEA01FB-CH42



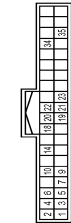
Terminal No.	1	Signal Name [Specification]
2	Y	-
3	B	-

Connector No.	M70
Connector Name	POWER SOCKET 2
Connector Type	CEA01FB-CH42



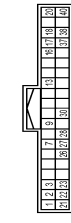
Terminal No.	1	Signal Name [Specification]
2	Y	-
3	B	-

Connector No.	M81
Connector Name	TCU
Connector Type	TH40FW-NH



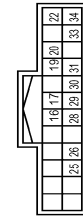
Terminal No.	1	Signal Name [Specification]
2	G	BAT
3	Y	ACC
4	R	IGN
5	SB	AGC OUTPUT
6	SB	GND
7	B	CAN-H
8	B	CAN-H
9	L	CAN-H
10	P	CAN-L
11	B	AUDIO TYPE RECOGNITION SIGNAL
12	L	MICROPHONE VCC
13	L	MICROPHONE SIGNAL
14	G	SHIELD
15	G	SHIELD
16	L	MICROPHONE VCC
17	L	MICROPHONE SIGNAL
18	L	SOCS CALL SWITCH SIGNAL
19	L	SOCS SWITCH LED SIGNAL
20	BR	SOCS SWITCH LED SIGNAL

Connector No.	M88
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH



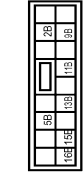
Terminal No.	1	Color Of Wire	Signal Name [Specification]
2	B	W	CAN-H
3	W	GND	GND
4	B	W	BAT
5	G	W	AMBER SENS
6	R	W	SUNLOAD SENS
7	R	W	IGN SW ACC
8	V	W	IGN SW ACC
9	V	W	IGN SW ACC
10	P	W	IGN SW ACC
11	P	W	IGN SW ACC
12	P	W	IGN SW ACC
13	P	W	IGN SW ACC
14	P	W	IGN SW ACC
15	P	W	IGN SW ACC
16	P	W	IGN SW ACC
17	R	W	DOOR MOTOR PWR SHLY
18	P	W	BLOWER MOTOR CONT
19	P	W	HEAT STRG WHL RLY CONT
20	L	W	CAN-L
21	P	W	CAN-L
22	B	W	GND
23	W	W	IGN SW IGN
24	W	W	IGN SW IGN
25	L	W	TH-VEICLE SENS
26	GR	W	TH-VEICLE SENS
27	GR	W	TH-VEICLE SENS
28	GR	W	TH-VEICLE SENS
29	GR	W	TH-VEICLE SENS
30	GR	W	TH-VEICLE SENS
31	GR	W	TH-VEICLE SENS
32	GR	W	TH-VEICLE SENS
33	GR	W	TH-VEICLE SENS
34	GR	W	TH-VEICLE SENS
35	GR	W	TH-VEICLE SENS
36	GR	W	TH-VEICLE SENS
37	B	W	GND
38	EG	W	IONIZER CONT
39	EG	W	IONIZER CONT
40	EG	W	IONIZER CONT

Connector No.	M100
Connector Name	DISPLAY CONTROL UNIT
Connector Type	TH24FW-NH



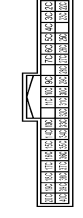
Terminal No.	1	Color Of Wire	Signal Name [Specification]
2	SB	W	AV COMM (L)
3	P	W	CAN-L
4	R	W	DIMMER SIGNAL
5	BR	W	REVERSE SIGNAL
6	B	W	GND
7	B	W	GND
8	BR	W	CAMERA SWITCH SIGNAL
9	LS	W	AV COMM (H)
10	L	W	CAN-H
11	L	W	IGN
12	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
13	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
14	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
15	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
16	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
17	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
18	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
19	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
20	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
21	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
22	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
23	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
24	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
25	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
26	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
27	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
28	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
29	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
30	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
31	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
32	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
33	R	W	VEHICLE SPEED SIGNAL (8-PULSE)
34	R	W	VEHICLE SPEED SIGNAL (8-PULSE)

Terminal No.	34	Y	BAT
--------------	----	---	-----



Terminal No.	1	Color Of Wire	Signal Name [Specification]
2	Y	W	FUSE BLOCK (J.B)
3	Y	W	FUSE BLOCK (J.B)
4	Y	W	FUSE BLOCK (J.B)
5	Y	W	FUSE BLOCK (J.B)
6	Y	W	FUSE BLOCK (J.B)
7	Y	W	FUSE BLOCK (J.B)
8	Y	W	FUSE BLOCK (J.B)
9	Y	W	FUSE BLOCK (J.B)
10	Y	W	FUSE BLOCK (J.B)
11	Y	W	FUSE BLOCK (J.B)
12	Y	W	FUSE BLOCK (J.B)
13	Y	W	FUSE BLOCK (J.B)
14	Y	W	FUSE BLOCK (J.B)
15	Y	W	FUSE BLOCK (J.B)
16	Y	W	FUSE BLOCK (J.B)
17	Y	W	FUSE BLOCK (J.B)
18	Y	W	FUSE BLOCK (J.B)
19	Y	W	FUSE BLOCK (J.B)
20	Y	W	FUSE BLOCK (J.B)
21	Y	W	FUSE BLOCK (J.B)
22	Y	W	FUSE BLOCK (J.B)
23	Y	W	FUSE BLOCK (J.B)
24	Y	W	FUSE BLOCK (J.B)
25	Y	W	FUSE BLOCK (J.B)
26	Y	W	FUSE BLOCK (J.B)
27	Y	W	FUSE BLOCK (J.B)
28	Y	W	FUSE BLOCK (J.B)
29	Y	W	FUSE BLOCK (J.B)
30	Y	W	FUSE BLOCK (J.B)
31	Y	W	FUSE BLOCK (J.B)
32	Y	W	FUSE BLOCK (J.B)
33	Y	W	FUSE BLOCK (J.B)
34	Y	W	FUSE BLOCK (J.B)

Connector No.	M133
Connector Name	FUSE BLOCK (J.B)
Connector Type	TH40PT-NH



Terminal No.	1	Color Of Wire	Signal Name [Specification]
2	Y	W	FUSE BLOCK (J.B)
3	Y	W	FUSE BLOCK (J.B)
4	Y	W	FUSE BLOCK (J.B)
5	Y	W	FUSE BLOCK (J.B)
6	Y	W	FUSE BLOCK (J.B)
7	Y	W	FUSE BLOCK (J.B)
8	Y	W	FUSE BLOCK (J.B)
9	Y	W	FUSE BLOCK (J.B)
10	Y	W	FUSE BLOCK (J.B)
11	Y	W	FUSE BLOCK (J.B)
12	Y	W	FUSE BLOCK (J.B)
13	Y	W	FUSE BLOCK (J.B)
14	Y	W	FUSE BLOCK (J.B)
15	Y	W	FUSE BLOCK (J.B)
16	Y	W	FUSE BLOCK (J.B)
17	Y	W	FUSE BLOCK (J.B)
18	Y	W	FUSE BLOCK (J.B)
19	Y	W	FUSE BLOCK (J.B)
20	Y	W	FUSE BLOCK (J.B)
21	Y	W	FUSE BLOCK (J.B)
22	Y	W	FUSE BLOCK (J.B)
23	Y	W	FUSE BLOCK (J.B)
24	Y	W	FUSE BLOCK (J.B)
25	Y	W	FUSE BLOCK (J.B)
26	Y	W	FUSE BLOCK (J.B)
27	Y	W	FUSE BLOCK (J.B)
28	Y	W	FUSE BLOCK (J.B)
29	Y	W	FUSE BLOCK (J.B)
30	Y	W	FUSE BLOCK (J.B)
31	Y	W	FUSE BLOCK (J.B)
32	Y	W	FUSE BLOCK (J.B)
33	Y	W	FUSE BLOCK (J.B)
34	Y	W	FUSE BLOCK (J.B)

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JRMWE0047GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY

37C	W	-
38C	L	-
39C	L	-
40C	L	-
41C	LG	-
42C	SB	-
43C	W	-
44C	P	-
45C	W	-
46C	W	-
47C	R	-
48C	R	-
49C	W	-
50C	R	-
51C	B	-
52C	W	-
53C	SB	-
54C	R	-
55C	W	-
56C	W	-
57C	W	-
58C	SB	-
59C	V	-
60C	V	-
61C	P	-
62C	G	-
63C	P	-
64C	P	-
65C	G	-
66C	G	-
67C	G	-
68C	V	-

Connector No.	R22
Connector Name	TELEMATICS SWITCH
Connector Type	TH08PW-NH



Terminal No.	Color	Signal Name [Specification]
1	W	-
2	BR	-
3	G	-
5	SB	-
6	B	-
7	B	-

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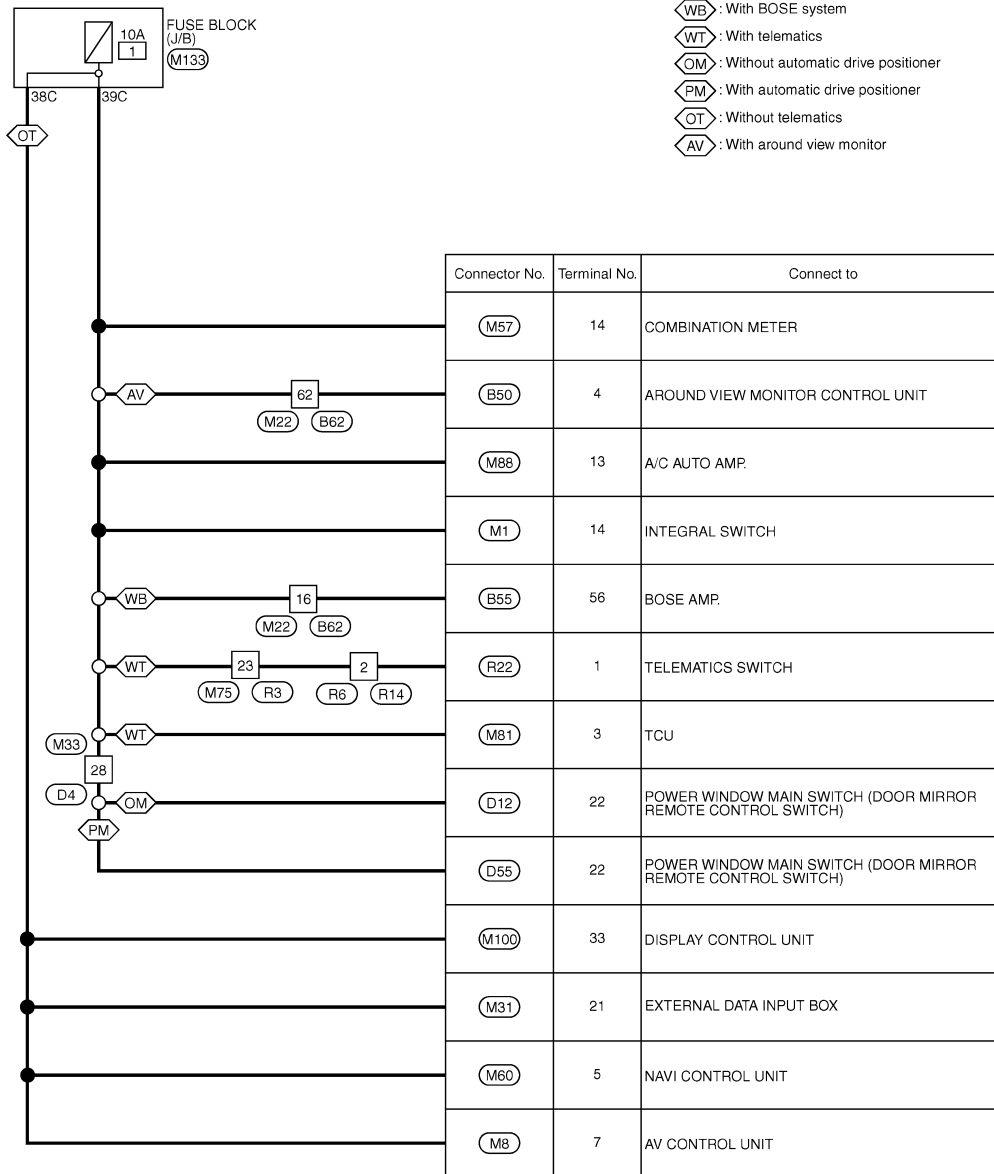
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 1 -

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### ACCESSORY POWER SUPPLY FUSE No. 1



2013/05/17

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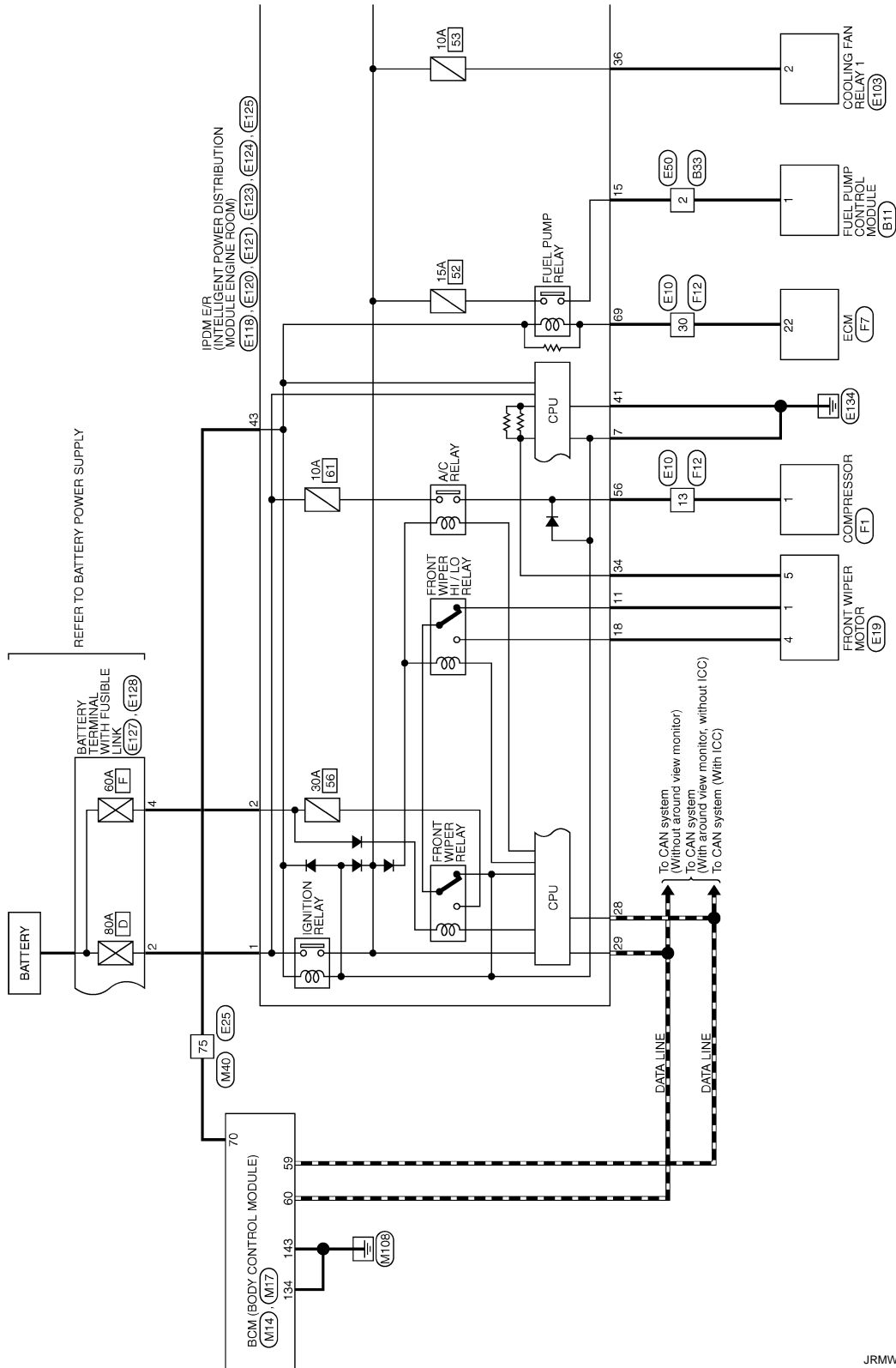
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



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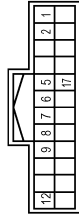


# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## IGNITION POWER SUPPLY

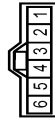
Connector No.	B1
Connector Name	ADAS CONTROL UNIT
Connector Type	TH24FT-1H



**H.S.**

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	R	CAN-L
5	B	GROUND
6	L	ITS COMM-H
7	P	ITS COMM-L
8	L	CHASSIS COMM-H
9	V	CHASSIS COMM-L
12	GR	IGNITION
17	V	BRAKE HOLD RLY DRIVE SIGNAL

Connector No.	B11
Connector Name	FUEL PUMP CONTROL MODULE
Connector Type	TB6PFE



**H.S.**

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

Connector No.	B33
Connector Name	WIRE TO WIRE
Connector Type	MB9FW-LC



**H.S.**

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

Connector No.	B38
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS10FW-CS



**H.S.**

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

Connector No.	B59
Connector Name	FUSE BLOCK (J/B)
Connector Type	TH10FB-1H



**H.S.**

Terminal No.	Color Of Wire	Signal Name [Specification]
1DH	P	-
3H	L	-
4H	R	-
6H	L	-
7H	LG	-
8H	P	-

Connector No.	B43
Connector Name	CONDENSER
Connector Type	MD1FW-LC



**H.S.**

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

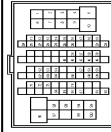
Connector No.	B50
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FT-1H



**H.S.**

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GNB
2	Y	BAT
3	LG	IGN
4	P	ACC
19	LG	AV COMM (H)
20	P	AV COMM (L)
23	SHIELD	AV COMM GND
25	BG	REVERSE SIGNAL
27	L	CAN-H
28	P	CAN-L (With ADAS)
28	R	CAN-L (With ASCD)
30	W	RETRACT MOTOR OPERATION SIGNAL (OPEN)
32	G	RETRACT MOTOR OPERATION SIGNAL (CLOSE)

Connector No.	B82
Connector Name	WIPE TO WIRE
Connector Type	TH80FT-CSI/5-TM



**H.S.**

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	R	- [With BOSE system]
3	W	- [Without BOSE system]
4	SHIELD	-
5	G	-

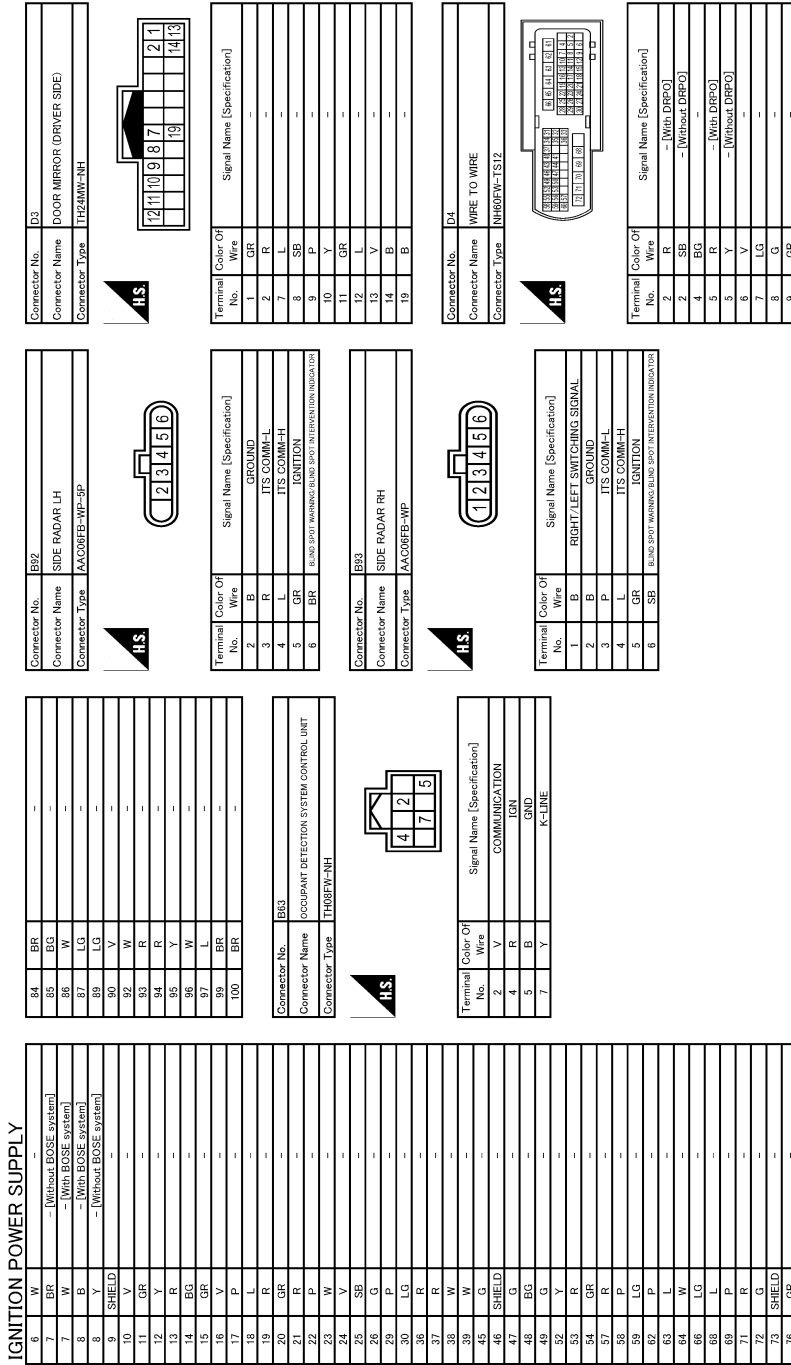
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



JRMWE0054GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

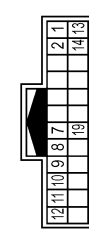
## IGNITION POWER SUPPLY

10	Y	--	--	--	--
11	SHIELD	--	--	--	--
12	BG	--	--	--	--
13	L	--	--	--	--
14	B	--	--	--	--
15	B	--	--	--	--
16	GR	--	--	--	--
17	R	--	--	--	--
18	GR	--	--	--	--
19	R	--	--	--	--
20	W	--	--	--	--
21	LG	--	--	--	--
22	W	--	--	--	--
23	L	--	--	--	--
24	G	--	--	--	--
25	BR	--	--	--	--
26	R	--	--	--	--
27	BR	--	--	--	--
28	V	--	--	--	--
29	B	--	--	--	--
30	W	--	--	--	--
31	P	--	--	--	--
32	Y	--	--	--	--
33	BR	--	--	--	--
34	L	--	--	--	--
35	R	--	--	--	--
36	GR	--	--	--	--
37	G	--	--	--	--
40	P	--	--	--	--
41	L	--	--	--	--
43	BG	--	--	--	--
44	W	--	--	--	--
45	R	--	--	--	--
46	B	--	--	--	--
49	BR	--	--	--	--
50	B	--	--	--	--
52	V	--	--	--	--
53	GR	--	--	--	--
55	GR	--	--	--	--
56	BR	--	--	--	--
57	R	--	--	--	--
58	L	--	--	--	--
59	V	--	--	--	--
60	G	--	--	--	--
61	BG	--	--	--	--
62	Y	--	--	--	--
63	SB	--	--	--	--
64	B	--	--	--	--
65	Y	--	--	--	--
66	BR	--	--	--	--

68	Y	--	--	--	--
69	L	--	--	--	--
70	W	--	--	--	--
71	LG	--	--	--	--
72	P	--	--	--	--

**H.S.**

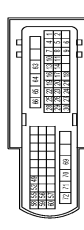
Connector No.	D17
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	L	--	--
2	R	--	--
7	BG	--	--
8	LG	--	--
9	SB	--	--
10	G	--	--
11	V	--	--
12	Y	--	--
13	Y	--	--
14	B	--	--
18	B	--	--
19	B	--	--
21	G	--	--
22	SHIELD	--	--
23	BG	--	--
24	B	--	--
25	BR	--	--
26	V	--	--
27	G	--	--
28	V	--	--
29	Y	--	--
30	R	--	--
49	LG	--	--
52	P	--	--
53	Y	--	--
54	B	--	--
58	R	--	--
59	SB	--	--

**H.S.**

Connector No.	D18
Connector Name	WIRE TO WIRE
Connector Type	NH60FW-1S12



Terminal No.	Color	Wire	Signal Name [Specification]
1	GR	--	--
2	LG	--	--
5	SB	--	--
6	V	--	--
7	LG	--	--
8	W	--	--
9	L	--	--
10	L	--	--
11	GR	--	--
13	Y	--	--
14	R	--	--
16	R	--	--
17	B	--	--
18	W	--	--
19	B	--	--
20	G	--	--
21	SHIELD	--	--
22	GR	--	--
23	BG	--	--
24	B	--	--
25	BR	--	--
26	V	--	--
27	G	--	--
28	V	--	--
29	Y	--	--
30	R	--	--
49	LG	--	--
52	P	--	--
53	Y	--	--
54	B	--	--
57	R	--	--
58	SB	--	--
59	R	--	--
60	G	--	--
63	B	--	--
64	Y	--	--
65	BR	--	--
66	GR	--	--
69	W	--	--
70	L	--	--
71	BG	--	--
72	Y	--	--

**H.S.**

Connector No.	D56
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH



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

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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## IGNITION POWER SUPPLY

Connector No.	D57
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	1724MMH-NH



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

Connector No.	E10
Connector Name	WIRE TO WIRE
Connector Type	1SA-38MB-FSS-SFZ2



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

37	SHIELD	-
38	L	-
39	R	-
41	W	-
42	LG	-
43	G	-
44	Y	-
45	V	-
46	SHIELD	-
47	W	-
48	BR	-
49	G	-
50	B	-
51	S9	-
52	R	-



Connector No.	E19
Connector Name	FRONT WIPER MOTOR
Connector Type	HS05FGY



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

Connector No.	E21
Connector Name	HEADLAMP AIMING MOTOR LH
Connector Type	HS05FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	AMER.SIG
2	B	AMER.GND
3	G	AMER.VCC

Connector No.	E22
Connector Name	CHASSIS CONTROL MODULE
Connector Type	1724FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	P	CAN-H [Without Gateway]
3	R	CAN-L [With Gateway]
4	L	CAN-H
5	V	DRIVE MODE SELECT SW (UP)
6	G	DRIVE MODE SELECT SW (DOWN)
7	W	CHASSIS COMM-L
8	W	CHASSIS COMM-L
10	G	IGN
11	L	CHASSIS COMM-H
12	B	GROUND
19	L	CHASSIS COMM-H

JRMWE0056GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## IGNITION POWER SUPPLY

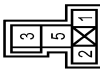
Connector No.	E25
Connector Name	WIRE TO WIRE
Connector Type	TH80P1-C51P-TM



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	
3	LG	
4	BR	
6	V	
7	L	
10	BR	
11	L	
12	GR	
13	W	
14	B	
15	SB	
16	Y	
17	BR	
18	P	
31	Y	
32	GR	
35	GR	
36	R	
37	V	
38	Y	
39	Y	
40	SB	
41	LG	
44	Y	
45	W	
46	B	
47	G	
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49	R	
50	BR	
51	L	
52	W	
53	V	
54	P	
55	W	
56	SB	

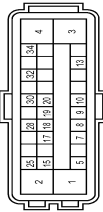
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64	SB	
66	CR	
68	LG	
69	BG	
71	LG	
72	V	
73	G	
74	BR	
75	V	
78	P	
79	SB	
83	R	
86	BG	
91	G	
92	Y	
94	GR	
95	BG	
96	W	
97	LG	
98	L	
99	P	
100	SHIELD	

Connector No.	E34
Connector Name	SHIFT LOCK RELAY
Connector Type	MS20FL-M2-LC



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

Connector No.	E35
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	SAZ30FP-SZ4-U



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	B	GROUND
3	G	VALVE BATTERY
4	Y	MOTOR BATTERY
5	V	STOP LAMP SW SIGNAL [With ICC]
6	LG	RR LH WHEEL SENSOR SIGNAL
7	GR	RR LH WHEEL SENSOR POWER SUPPLY
8	G	FR RH WHEEL SENSOR SIGNAL
9	BR	FR RH WHEEL SENSOR POWER SUPPLY
10	GR	FR RH WHEEL SENSOR SIGNAL
13	R	VACUUM SENSOR SIGNAL
15	P	CAN-L [With Gateway]
15	R	CAN-R [With Gateway]
17	Y	RR RH WHEEL SENSOR SIGNAL
18	V	RR RH WHEEL SENSOR POWER SUPPLY
19	SB	FR LH WHEEL SENSOR SIGNAL
20	BG	FR LH WHEEL SENSOR POWER SUPPLY
23	L	VACUUM SENSOR SIGNAL
24	R	VACUUM SENSOR POWER SUPPLY
30	R	VACUUM SW SIGNAL
32	SHIELD	
34	G	VACUUM SENSOR GROUND
		IGN

Connector No.	E44
Connector Name	BRAKE PEDAL POSITION SWITCH
Connector Type	MS2FL



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

Connector No.	E46
Connector Name	FUSE AND FUSEBLE LINK BLOCK
Connector Type	Z4384-AG0A0

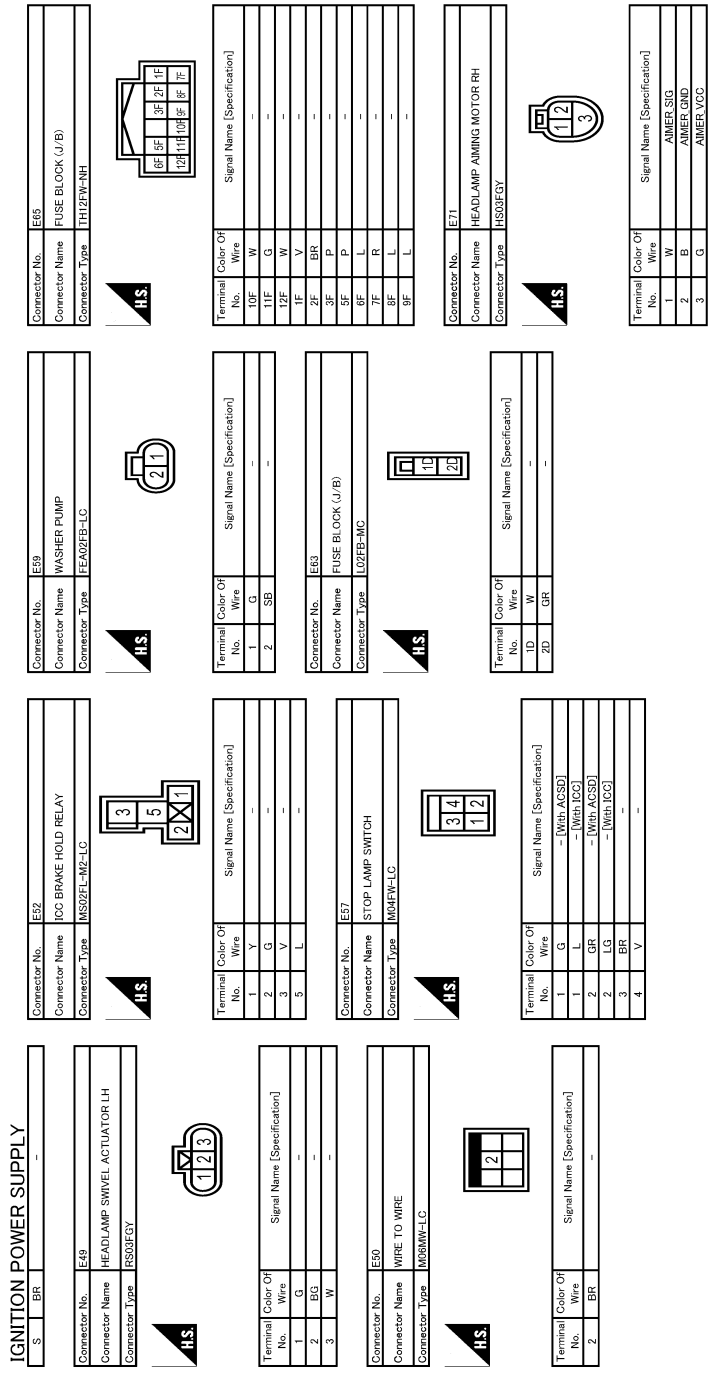


Terminal No.	Color Of Wire	Signal Name [Specification]
65	GR	
66	GR	
67	SB	
68	LG	
69	V	
70	GR	
72	G	
73	P	
	G	
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# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >



JRMWE0058GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## IGNITION POWER SUPPLY

Connector No.	E17
Connector Name	HEADLAMP SWIVEL ACTUATOR RH
Connector Type	RS39FCY



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

Connector No.	E80
Connector Name	ICC SENSOR
Connector Type	AA208FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	IGNITION
3	L	ITS COM+H
4	Y	ITS COM+L
8	B	GROUND

Connector No.	E83
Connector Name	EXHAUST GAS / OUTSIDE DOOR DETECTING SENSOR
Connector Type	FR43FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	AGS POWER
2	P	AGS S.GND
3	G	AGS S. OUTPUT

Connector No.	E103
Connector Name	COOLING FAN RELAY 1
Connector Type	C 243B4 4GA0A



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

Connector No.	E118
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	LS2FB-MC



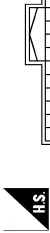
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	L	-

Connector No.	E120
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS12FW-CS



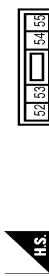
Terminal No.	Color Of Wire	Signal Name [Specification]
9	BR	-
10	LG	-
11	V	-
13	Y	-
14	SB	-
15	Y	-
17	GR	-
18	L	-

Connector No.	E121
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	TR32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
19	G	-
22	BG	-
23	LG	-
27	GR	-
28	P	-
29	L	-
31	G	-
33	SB	-
34	Y	-
35	G	-
36	SB	-
37	GR	-
38	BR	-
41	GR	-
43	V	-

Connector No.	E123
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	NS10FP-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
52	G	-
53	BR	-
54	Y	-
55	W	-
56	L	-

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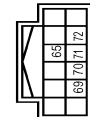
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## IGNITION POWER SUPPLY

Connector No.	E124
Connector Name	IGNITION POWER SUPPLY
Connector Type	10P

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	IGNITION POWER SUPPLY
2	B	IGNITION POWER SUPPLY
3	GR	IGNITION POWER SUPPLY
4	GR	IGNITION POWER SUPPLY



Connector No.	E124
Connector Name	IGNITION POWER SUPPLY
Connector Type	10P

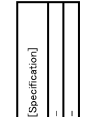
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	IGNITION POWER SUPPLY
2	B	IGNITION POWER SUPPLY
3	GR	IGNITION POWER SUPPLY
4	GR	IGNITION POWER SUPPLY



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	IGNITION POWER SUPPLY
2	B	IGNITION POWER SUPPLY
3	GR	IGNITION POWER SUPPLY
4	GR	IGNITION POWER SUPPLY

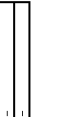
Connector No.	E127
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	10P

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



Connector No.	E128
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	10P

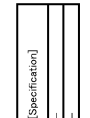
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	GROUND
2	R	GROUND



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	IGNITION POWER SUPPLY
2	P	IGNITION POWER SUPPLY
3	L	IGNITION POWER SUPPLY
4	L	IGNITION POWER SUPPLY

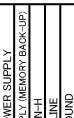
Connector No.	F1
Connector Name	COMPRESSOR
Connector Type	10P

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



Connector No.	F2
Connector Name	A/T ASSEMBLY
Connector Type	10P

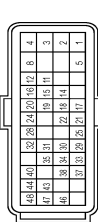
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	GROUND
2	B	GROUND



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	IGNITION POWER SUPPLY
2	P	IGNITION POWER SUPPLY
3	L	IGNITION POWER SUPPLY
4	LG	IGNITION POWER SUPPLY
5	B	IGNITION POWER SUPPLY
6	GR	IGNITION POWER SUPPLY
7	BG	IGNITION POWER SUPPLY
8	P	IGNITION POWER SUPPLY
9	GR	IGNITION POWER SUPPLY
10	B	IGNITION POWER SUPPLY

Connector No.	F7
Connector Name	ECM
Connector Type	10P

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	A/F SENSOR 1 HEATER (BANK 1)
2	G	THROTTLE CONTROL MOTOR (BANK 1) (OPEN)
3	R	THROTTLE CONTROL MOTOR (BANK 1) (CLOSE)
4	BR	THROTTLE CONTROL MOTOR (BANK 2)
5	GR	A/F SENSOR 1 HEATER (BANK 2)
6	B	ECM GROUND
7	GR	IGNITION SIGNAL No. 4
8	L	IGNITION SIGNAL No. 3
9	L	FUEL PUMP CONTROL MODULE (FPOM)
10	Y	IGNITION SIGNAL No. 5
11	V	IGNITION SIGNAL No. 2
12	G	HEATED OXYGEN SENSOR 2 HEATER (BANK 1)
13	W	INTAKE VALVE TRIM CONTROL SOLENOID VALVE (BANK 1)
14	SB	IGNITION SIGNAL No. 6
15	SB	IGNITION SIGNAL No. 1
16	Y	IGNITION SIGNAL No. 1
17	GR	IGNITION SIGNAL No. 1
18	GR	IGNITION SIGNAL No. 1
19	GR	IGNITION SIGNAL No. 1
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42	GR	IGNITION SIGNAL No. 1
43	GR	IGNITION SIGNAL No. 1
44	GR	IGNITION SIGNAL No. 1
45	GR	IGNITION SIGNAL No. 1
46	GR	IGNITION SIGNAL No. 1
47	GR	IGNITION SIGNAL No. 1
48	GR	IGNITION SIGNAL No. 1



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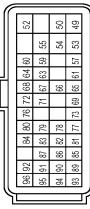


# POWER SUPPLY ROUTING CIRCUIT

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## IGNITION POWER SUPPLY

Connector No.	F8
Connector Name	ECM
Connector Type	IP440FER-RZP-L-L4-Z



Terminal No.	Color	Wire	Signal Name [Specification]
49	GR	GR	THROTTLE CONTROL MOTOR (BANK 2) (CLOSE)
50	W	W	THROTTLE CONTROL MOTOR (BANK 2) (OPEN)
52	R	R	THROTTLE CONTROL MOTOR POWER SUPPLY (BANK 2)
53	G	G	IGNITION SWITCH
54	Y	Y	ENGINE COMMUNICATION LINE
55	LG	LG	ENGINE COMMUNICATION LINE
57	L	L	A/F SENSOR 1 (BANK 1)
59	SB	SB	CAMSHAFT POSITION SENSOR (BANK 1)
60	GR	GR	CAMSHAFT POSITION SENSOR (BANK 1)
61	R	R	A/F SENSOR 1 (BANK 1)
63	L	L	CAMSHAFT POSITION SENSOR (BANK 2)
64	W	W	CAMSHAFT POSITION SENSOR (BANK 2)
65	LG	LG	A/F SENSOR 1 (BANK 2)
66	V	V	A/F SENSOR 1 (BANK 2)
67	P	P	INTAKE AIR TEMPERATURE SENSOR
68	LG	LG	INTAKE AIR TEMPERATURE SENSOR
69	W	W	INTAKE AIR TEMPERATURE SENSOR
71	W	W	NOCK SENSOR (BANK 2)
72	SHIELD	SHIELD	ENGINE COOLANT TEMPERATURE SENSOR
73	SHIELD	SHIELD	NOCK SENSOR (BANK 2)
74	W	W	NOCK SENSOR (BANK 1)
76	W	W	HEATED OXYGEN SENSOR 2 (BANK 1)
77	SB	SB	ENGINE OIL TEMPERATURE SENSOR
78	BR	BR	ENGINE OIL TEMPERATURE SENSOR
79	G	G	MASS AIR FLOW SENSOR (BANK 2)
80	BG	BG	MASS AIR FLOW SENSOR (BANK 2)
81	R	R	HEATED OXYGEN SENSOR 2 (BANK 2)
82	V	V	FUEL INJECTOR No. 6
83	BG	BG	BATTERY TEMPERATURE SENSOR
84	B	B	BATTERY TEMPERATURE SENSOR
85	BR	BR	FUEL INJECTOR No. 2
86	W	W	FUEL INJECTOR No. 5
87	Y	Y	POWER STEERING PRESSURE SENSOR
89	GR	GR	FUEL INJECTOR No. 1
90	BG	BG	FUEL INJECTOR No. 4
91	R	R	BATTERY CURRENT SENSOR
92	G	G	SENSOR (FORWARD) (CAMSHAFT POSITION SENSOR (BANK 2))

93	P	P	POWER SUPPLY FOR ECM (BACK-UP)
94	Y	Y	SENSOR (FORWARD) (MASS AIR FLOW SENSOR (BANK 2))
95	B	B	IGNA COUPSEN
96	BR	BR	IGNA PHASE 1/PS

Connector No.	F12
Connector Name	WIRE TO WIRE
Connector Type	SA438FF-RSS-SH2B



Terminal No.	Color	Wire	Signal Name [Specification]
1	L/Y	L/Y	
2	SHIELD	SHIELD	
3	L/B	L/B	
4	SHIELD	SHIELD	
5	BR	BR	
6	GR	GR	
7	G	G	
8	W	W	
9	W	W	
10	G	G	
11	R	R	
12	L	L	
14	L	L	
15	LG	LG	
16	P	P	
17	L	L	
18	P	P	
19	GR	GR	
20	BG	BG	
21	LG	LG	
22	W	W	
23	Y	Y	
24	LG	LG	
25	V	V	
26	W	W	
27	V	V	
28	BR	BR	
29	LG	LG	
30	R	R	

Connector No.	F15
Connector Name	IGNITION COIL No. 2 (WITH POWER TRANSISTOR)
Connector Type	EG3FGY-RS



Terminal No.	Color	Wire	Signal Name [Specification]
1	G	G	
2	B	B	
3	W	W	

Connector No.	F16
Connector Name	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)
Connector Type	EG3FGY-RS



Terminal No.	Color	Wire	Signal Name [Specification]
1	Y	Y	
2	B	B	
3	W	W	

31	P	P	
32	GR	GR	
33	B	B	
34	BG	BG	
35	SB	SB	
37	SHIELD	SHIELD	
38	W	W	
39	Y	Y	
40	G	G	
41	B	B	
42	GR	GR	
43	R	R	
44	BG	BG	
45	Y	Y	
46	SHIELD	SHIELD	
47	W	W	
48	LG	LG	
49	L	L	
50	R	R	
51	SB	SB	
52	G	G	

Connector No.	F14
Connector Name	IGNITION COIL No. 1 (WITH POWER TRANSISTOR)
Connector Type	EG3FGY-RS



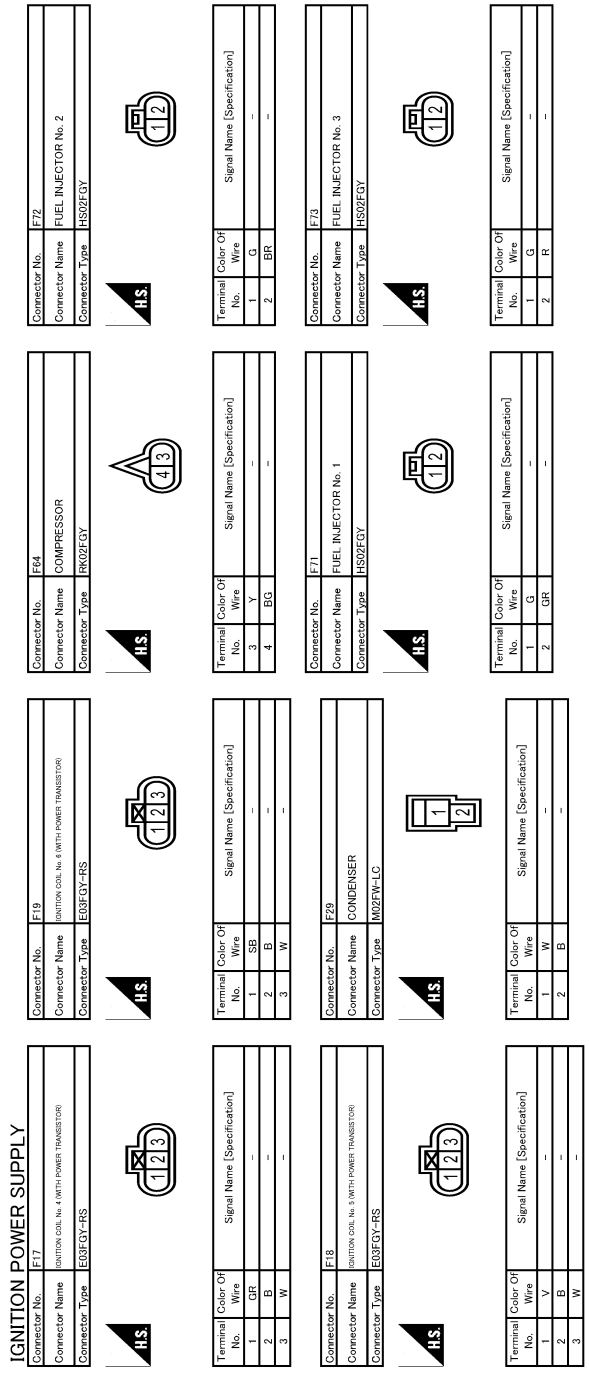
Terminal No.	Color	Wire	Signal Name [Specification]
1	Y	Y	
2	B	B	
3	W	W	

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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.	M14
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40PE-NH



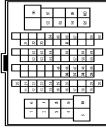
Terminal No.	Color Of Wire	Signal Name [Specification]
48	R	PUSH-BTN IGN SW ILL PWR
52	G	DONGLE LINK
54	V	COMMLINE
55	R	RAIN SENSOR
59	P	CAN-L
60	L	CAN-H
61	G	REAR WINDOW DEF RLY CONT
62	R	STARTER RLY CONT
64	V	H-KEY WARN BUZZER
65	B	OUTS HD LAMP CONT
66	B	BLOWER FAN RLY CONT
67	W/B	IGN RLYAY (F/B) CONT
68	R	DIMMER
69	GR	A/T SHIFT SELECI PWR SPLY
70	B	IGN RLYAY (F/DR) CONT
71	G	RR DOOR REG SW
72	SB	ASSISTANT REG SW
73	EG	COMBI SW INRLT 4
74	V	COMBI SW INRLT 3
77	Y	COMBI SW INRLT 1
78	LG	COMBI SW INRLT 2
79	LG	TR LID. OPNR SW
80	L	

Connector No.	M17
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA08RF-TH4G-SA



Terminal No.	Color Of Wire	Signal Name [Specification]
129	LG	INT ROOM LAMP PWR SPLY
130	P	PASS DOOR UNLK OUTPUT
131	Y	BAT (FUSE)
132	V	RR RL DOOR LK OUTPUT
133	BR	RR RL DOOR UNLK OUTPUT
134	B	GND
135	V	FRONT DOOR FL LID LK OUTPUT
136	V	INT ROOM LAMP CONT
137	LG	FRONT DOOR FL LID UNLK OUTPUT
138	P	REAR DOORS ACT PWR SPLY
139	W	BAT (F/L)
140	BR	IGN ON
141	R	PWR SPLY (BAT)
142	R	FRONT DOORS FL LID ACT PWR SPLY
143	B	GND

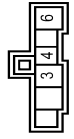
Connector No.	M22
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



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

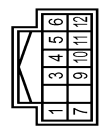
5	EG	
7	LG	
8	SHIELD	
9	V	
10	V	
11	GR	
12	V	
13	LG	
14	LG	
15	P	
16	SB	
17	V	
18	L	
19	G	
20	GR	
21	R	
22	W	
23	L	
24	V	
25	LG	
26	GR	
29	SB	
30	LG	
36	R	
37	R	
38	W	
39	V	
45	G	
46	SHIELD	
47	BR	
48	BR	
49	SB	
52	Y	
53	R	
54	GR	
57	R	
58	SB	
59	LG	
62	V	
63	L	
64	W	
65	R	
66	L	
69	P	
71	R	
72	G	
73	SHIELD	
76	V	
84	BR	

Connector No.	M23
Connector Name	BLOWER MOTOR
Connector Type	NS503FW-H3



Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	
4	P	
5	B	
6	B	

Connector No.	M24
Connector Name	CAN GATEWAY
Connector Type	TH12FW-NH



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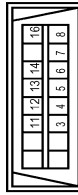
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## IGNITION POWER SUPPLY

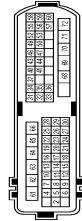
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
3	W	BATTERY
4	E	CAN-H
5	B	CAN-H
6	L	CAN-H
7	P	CAN-H
9	R	IGN
10	R	CANZ-L
11	B	GND
12	R	CANZ-L

Connector No.	M23
Connector Name	DATA LINK CONNECTOR
Connector Type	ED18FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	AV COMM (L)
4	B	EARTH
5	L	EARTH
6	W	GENE
7	V	IGN SW
11	LG	AV COMM (H)
12	R	CAN-H
13	L	CAN-H
14	P	CAN-L
16	W	POWER

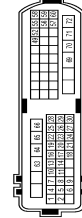
Connector No.	M33
Connector Name	WIRE TO WIRE
Connector Type	NH68MW-TS12



Terminal No.	Color Of Wire	Signal Name [Specification]
2	W	- [With DRPO]
4	G	- [Without DRPO]
4	SB	- [Without DRPO]
5	G	- [Without DRPO]
6	R	- [Without DRPO]
7	R	- [Without DRPO]
8	GR	- [Without DRPO]
9	GR	- [Without DRPO]
10	W	- [Without DRPO]
11	SHIELD	- [Without DRPO]
12	P	- [Without DRPO]
13	SB	- [Without DRPO]
14	LG	- [Without DRPO]
15	Y	- [Without DRPO]
16	Y	- [Without DRPO]
17	P	- [Without DRPO]
18	WPB	- [Without DRPO]
18	LG	- [Without DRPO]
18	V	- [Without DRPO]
20	Y	- [Without DRPO]
21	B	- [Without DRPO]
22	BG	- [Without DRPO]
23	G	- [Without DRPO]
24	Y	- [Without DRPO]
25	BG	- [Without DRPO]
25	L	- [Without DRPO]
26	Y	- [Without DRPO]
27	GR	- [Without DRPO]
28	V	- [Without DRPO]
29	B	- [Without DRPO]
30	W	- [Without DRPO]
31	B	- [Without DRPO]
32	SB	- [Without DRPO]
33	L	- [Without DRPO]
34	BR	- [Without DRPO]

35	LG	- [Without DRPO]
36	W	- [Without DRPO]
37	B	- [Without DRPO]
40	SB	- [Without DRPO]
43	SB	- [Without DRPO]
44	BG	- [Without DRPO]
46	BR	- [Without DRPO]
47	G	- [Without DRPO]
49	V	- [Without DRPO]
50	B	- [Without DRPO]
52	BR	- [Without DRPO]
53	B	- [Without DRPO]
55	BG	- [Without DRPO]
56	LG	- [Without DRPO]
57	V	- [Without DRPO]
59	R	- [Without DRPO]
59	G	- [Without DRPO]
60	L	- [Without DRPO]
61	G	- [Without DRPO]
62	R	- [Without DRPO]
63	V	- [Without DRPO]
64	B	- [Without DRPO]
65	R	- [Without DRPO]
66	BR	- [Without DRPO]
68	P	- [Without DRPO]
69	V	- [Without DRPO]
70	W	- [Without DRPO]
71	LG	- [Without DRPO]
72	V	- [Without DRPO]

Connector No.	M24
Connector Name	WIRE TO WIRE
Connector Type	NH68MW-TS12



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	- [Without DRPO]
2	R	- [Without DRPO]
4	G	- [Without DRPO]
4	SB	- [Without DRPO]

5	L	- [Without DRPO]
6	R	- [Without DRPO]
7	R	- [Without DRPO]
8	W	- [Without DRPO]
8	GR	- [Without DRPO]
10	Y	- [Without DRPO]
11	Y	- [Without DRPO]
13	LG	- [Without DRPO]
14	W	- [Without DRPO]
16	G	- [Without DRPO]
17	B	- [Without DRPO]
18	W	- [Without DRPO]
19	B	- [Without DRPO]
20	SB	- [Without DRPO]
20	Y	- [Without DRPO]
21	SHIELD	- [Without DRPO]
22	B	- [Without DRPO]
23	BG	- [Without DRPO]
23	P	- [Without DRPO]
24	G	- [Without DRPO]
25	LG	- [Without DRPO]
26	BG	- [Without DRPO]
26	BR	- [Without DRPO]
27	R	- [Without DRPO]
28	SB	- [Without DRPO]
29	BG	- [Without DRPO]
29	WZB	- [Without DRPO]
30	L	- [Without DRPO]
49	P	- [Without DRPO]
52	V	- [Without DRPO]
55	B	- [Without DRPO]
55	SB	- [Without DRPO]
58	G	- [Without DRPO]
59	LG	- [Without DRPO]
60	R	- [Without DRPO]
63	B	- [Without DRPO]
65	BR	- [Without DRPO]
66	Y	- [Without DRPO]
69	BR	- [Without DRPO]
70	Y	- [Without DRPO]
71	SB	- [Without DRPO]
72	W	- [Without DRPO]

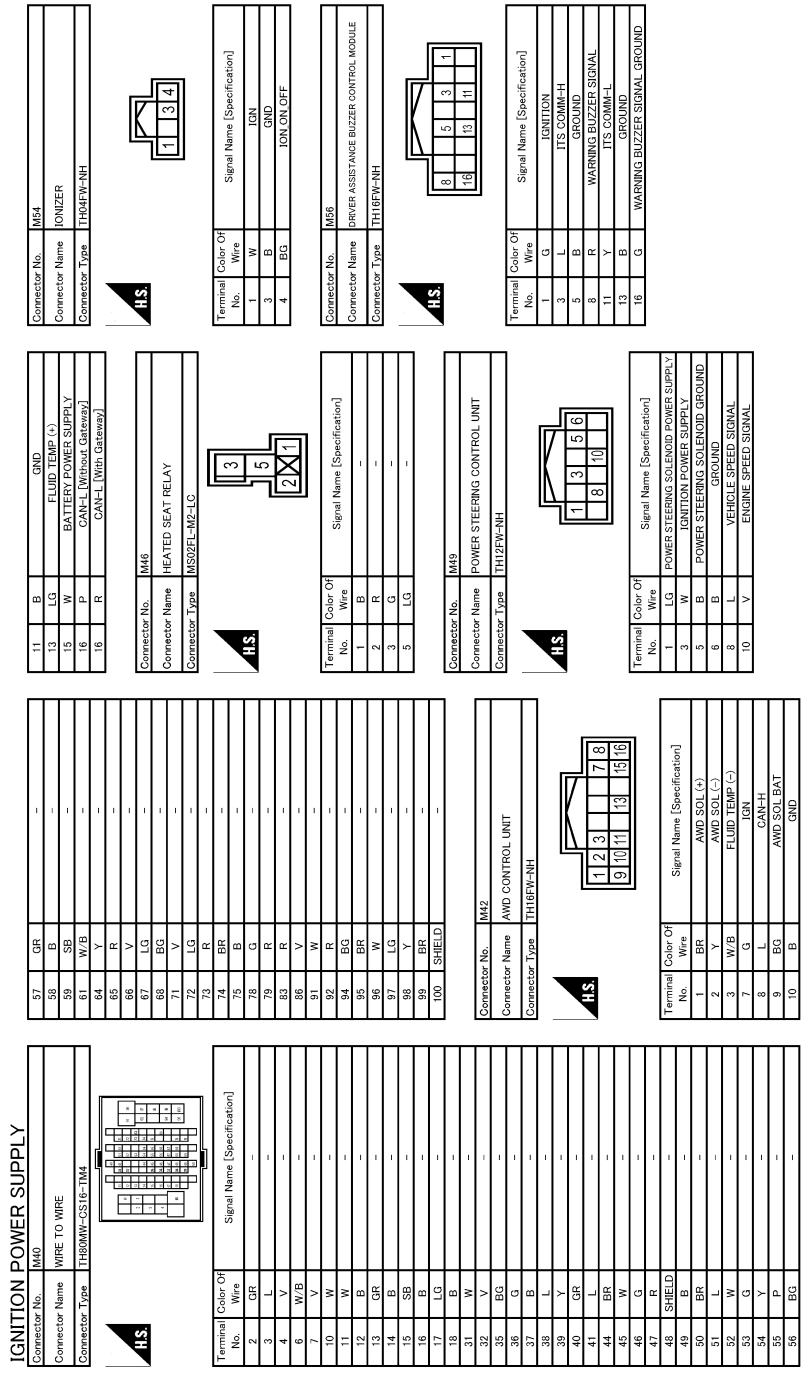
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# POWER SUPPLY ROUTING CIRCUIT

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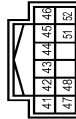
# POWER SUPPLY ROUTING CIRCUIT

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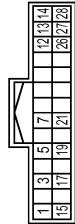
**IGNITION POWER SUPPLY**

Connector No.	IM68
Connector Name	COMBINATION METER
Connector Type	TH2PFP-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	L	CAN-H
42	P	CAN-L
43	B	ILLUMINATION CONTROL SIGNAL
44	Y	FUEL LEVEL SENSOR GROUND
45	W	BATTERY POWER SUPPLY
46	R	IGNITION SIGNAL
47	LG	AV COMMUNICATION SIGNAL (H)
48	SB	AV COMMUNICATION SIGNAL (L)
51	BR	FUEL LEVEL SENSOR SIGNAL
52	B	GROUND

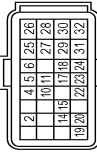
Connector No.	IM60
Connector Name	NAVI CONTROL UNIT
Connector Type	TH2BFW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BAT
3	B	GND
5	SB	ACC
7	R	VEHICLE SPEED SIGNAL (8-PULSE)
12	G	MICROPHONE SIGNAL
13	SHIELD	SHIELD
14	W	VOICE GUIDANCE SIGNAL OUTPUT (+)
15	Y	BAT
17	B	GND
19	W	IGN

21	BR	REVERSE SIGNAL
26	R	MICROPHONE SIGNAL GND
27	SHIELD	SHIELD
28	B	VOICE GUIDANCE SIGNAL OUTPUT (+)

Connector No.	MT1
Connector Name	STEERING FORCE CONTROL MODULE
Connector Type	RH24FB-R284-RH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	P	STEERING FORCE MOTOR RESOLVER SIGNAL (S+S)
4	W	STEERING FORCE MOTOR RESOLVER SIGNAL (S+S)
5	G	STEERING FORCE MOTOR RESOLVER SIGNAL (S+S)
6	O	STEERING FORCE MOTOR RESOLVER SIGNAL (S+S)
10	B	STEERING FORCE MOTOR RESOLVER SIGNAL (R+P)
11	R	STEERING FORCE MOTOR RESOLVER SIGNAL (R+P)
14	L	CAN COMMUNICATION-H
15	P	CAN COMMUNICATION-H [Without Gateway]
15	R	CAN COMMUNICATION-L [Without Gateway]
17	Y	BACK UP SIGNAL FROM STEERING ANGLE SENSOR CONTROL MODULE
18	Y	BACK UP SIGNAL FROM STEERING ANGLE SENSOR CONTROL MODULE
20	V	FLEXRAY COMMUNICATION-H
22	BG	BACK UP SIGNAL FROM STEERING ANGLE SENSOR CONTROL MODULE
23	BR	CAN WAKE UP
24	R	BACK UP SIGNAL FROM STEERING ANGLE SENSOR CONTROL MODULE
25	W	IGNITION POWER SUPPLY
26	R/W	STEERING CLUTCH +
27	W/B	REVERSE SIGNAL TO STEERING ANGLE SENSOR CONTROL MODULE
28	R	STEERING CLUTCH -
29	L	FORCE MOTOR TEMPERATURE SENSOR -
30	B	GROUND
31	R	FORCE MOTOR TEMPERATURE SENSOR +
32	B	GROUND

Connector No.	MT6
Connector Name	SOMAR CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	CENTER SENSOR SIGNAL FRONT RH
2	LG	CENTER SENSOR SIGNAL FRONT LH
3	W	CORNER SENSOR SIGNAL FRONT LH
4	GR	CORNER SENSOR SIGNAL FRONT RH
5	L	CAN-H
6	R	CAN-L [With Gateway]
6	P	CAN-L [Without Gateway]
9	G	CENTER SENSOR SIGNAL REAR RH
10	BG	CORNER SENSOR SIGNAL REAR RH
12	R	IGN
13	B	FRONT SENSOR GND
14	B	REAR SENSOR GND
15	B	GND
18	GR	FRONT BUZZER DRIVE SIGNAL
19	P	BUZZER POWER SUPPLY
21	BR	CENTER SENSOR SIGNAL REAR LH
22	W	CORNER SENSOR SIGNAL REAR LH

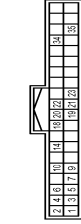
Connector No.	MT7
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH2BFW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	P	CAN-L [Without Gateway]
2	R	CAN-L [With Gateway]
4	G	IGN

5	L	CAN-H
---	---	-------

Connector No.	MB1
Connector Name	TCU
Connector Type	TH24PFP-NH



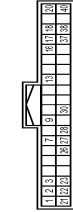
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BAT
2	B	GND
3	V	ACC
4	R	IGN
5	SB	ACC OUTPUT
6	SB	-
7	B	GND
9	L	CAN-H
10	P	CAN-L
14	B	AUDIO TYPE RECOGNITION SIGNAL
18	L	MICROPHONE VCC
19	G	MICROPHONE SIGNAL
20	SHIELD	SHIELD
21	L	MICROPHONE VCC
22	G	SOCS SIGNAL
23	SHIELD	SOCS CAN SWITCH SIGNAL
35	BR	SOCS SWITCH LED SIGNAL

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## IGNITION POWER SUPPLY

Connector No.	M88
Connector Name	A/C AUTO AMP.
Connector Type	TH40PT-1H



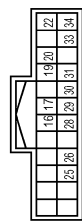
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	B	GND
3	W	BAT
7	G	AMBIENT SENS
9	R	SUNLOAD SENS
13	V	IGN SW ACC
16	P	IGN SW ON
17	R	DOOR MOTOR PWR SPRLY
18	P	BLOWER MOTOR CONT
20	L	HEAT STRG WHL RLY CONT
21	P	CAN-L
22	B	GND
23	W	IGN SW ON
26	B	SENS GND
27	EG	IN-VEHICLE SENS
28	BR	INTAKE SENS
30	EG	EXH GAS/OUT GND/DIGT SENS
31	B	GND
38	EG	IONIZER CONT
40	EG	ECU CONT

Connector No.	M97
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS20FL-MZ-LC



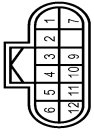
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	R	-
5	BR	-

Connector No.	M100
Connector Name	DISPLAY CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
16	SB	AV COMM (L)
17	P	CAN-L
19	R	DIMMER SIGNAL
20	BR	REVERSE SIGNAL
22	B	GND
25	SB	-
26	BR	CAMERA SWITCH SIGNAL
28	LG	AV COMM (H)
29	L	CAN-H
30	R	IGN
31	R	VEHICLE SPEED SIGNAL (9-PULSE)
33	SB	ACC
34	Y	BAT

Connector No.	M124
Connector Name	FUNCTIONAL ACTUATOR/ACCELERATOR PEDAL POSITION SENSOR
Connector Type	RM12FB



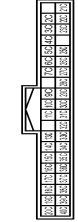
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	BATTERY
2	G	IGNITION
3	L	ITS COMM-H
4	W	-
5	G	-
6	Y	-
7	B	GROUND
9	Y	ITS COMM-L
10	L	-
11	R	-
12	BR	-

Connector No.	M131
Connector Name	FUSE BLOCK (J/B)
Connector Type	MM22FL-LC



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

Connector No.	M133
Connector Name	FUSE BLOCK (J/B)
Connector Type	TH40PT-1H



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	V	-
11C	V	-
13C	L	-
14C	Y	-
15C	R	-
16C	R	-
17C	L	-
18C	EG	- [Without DRPO]
18C	P	- [With DRPO]
19C	B	-
20C	W	-
21C	L	-
22C	L	-
23C	L	-
24C	LG	-
25C	SB	-
26C	W	-
27C	W	-
28C	W	-
29C	W	-
30C	R	-
31C	W	-
32C	R	-
33C	B	-
34C	W/B	-
35C	SB	-
36C	R	-
37C	W	-
38C	SB	-
39C	V	-
3C	P	-
40C	G	-
4C	P	-
5C	P	-
6C	G	-
7C	G	-

JRMWE0068GB



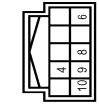
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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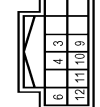
## IGNITION POWER SUPPLY

3C	V	--
Connector No.	R8	
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR	
Connector Type	TH10BEV-NH	



Terminal No.	Color Of Wire	Signal Name [Specification]
4	BG	--
6	GR	--
8	B	--
9	BR	--
10	BG	--

Connector No.	R9
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH12FEV-NH-B



Terminal No.	Color Of Wire	Signal Name [Specification]
3	B	GROUND
4	BG	AUTO ANTI-DAZZLING OUTSIDE MIRROR DOWNTRUCK SIGNAL
6	GR	IGNITION POWER SUPPLY
9	BR	AUTO ANTI-DAZZLING OUTSIDE MIRROR GROUND
10	BG	BATTERY POWER SUPPLY
11	GR	CAN-L
12	BR	CAN-H

Connector No.	RT3
Connector Name	LANE CAMERA UNIT
Connector Type	TH88FEV-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	CAN GND
4	L	CAN-H
5	B	GND
7	V	IGN
8	W	CAN-L

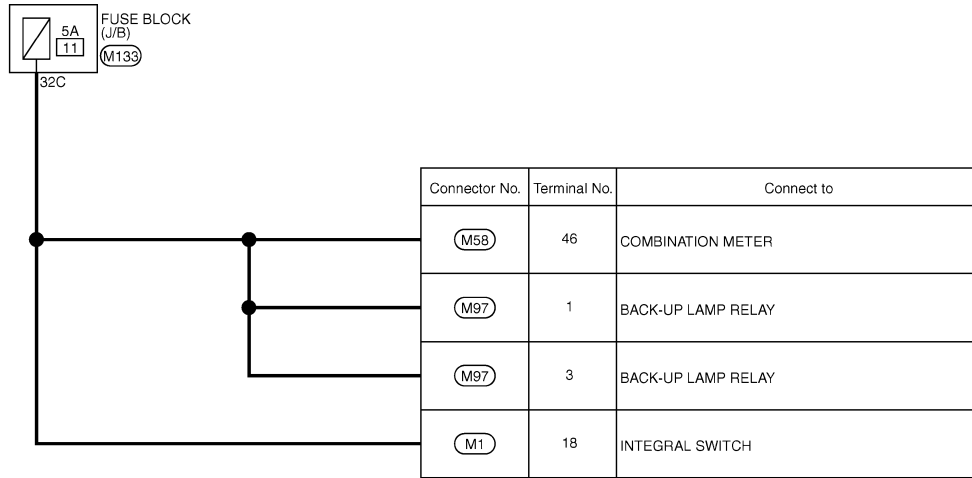
JRMWE0069GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 11 -  
IGNITION POWER SUPPLY FUSE No. 11

INFOID:000000009239723



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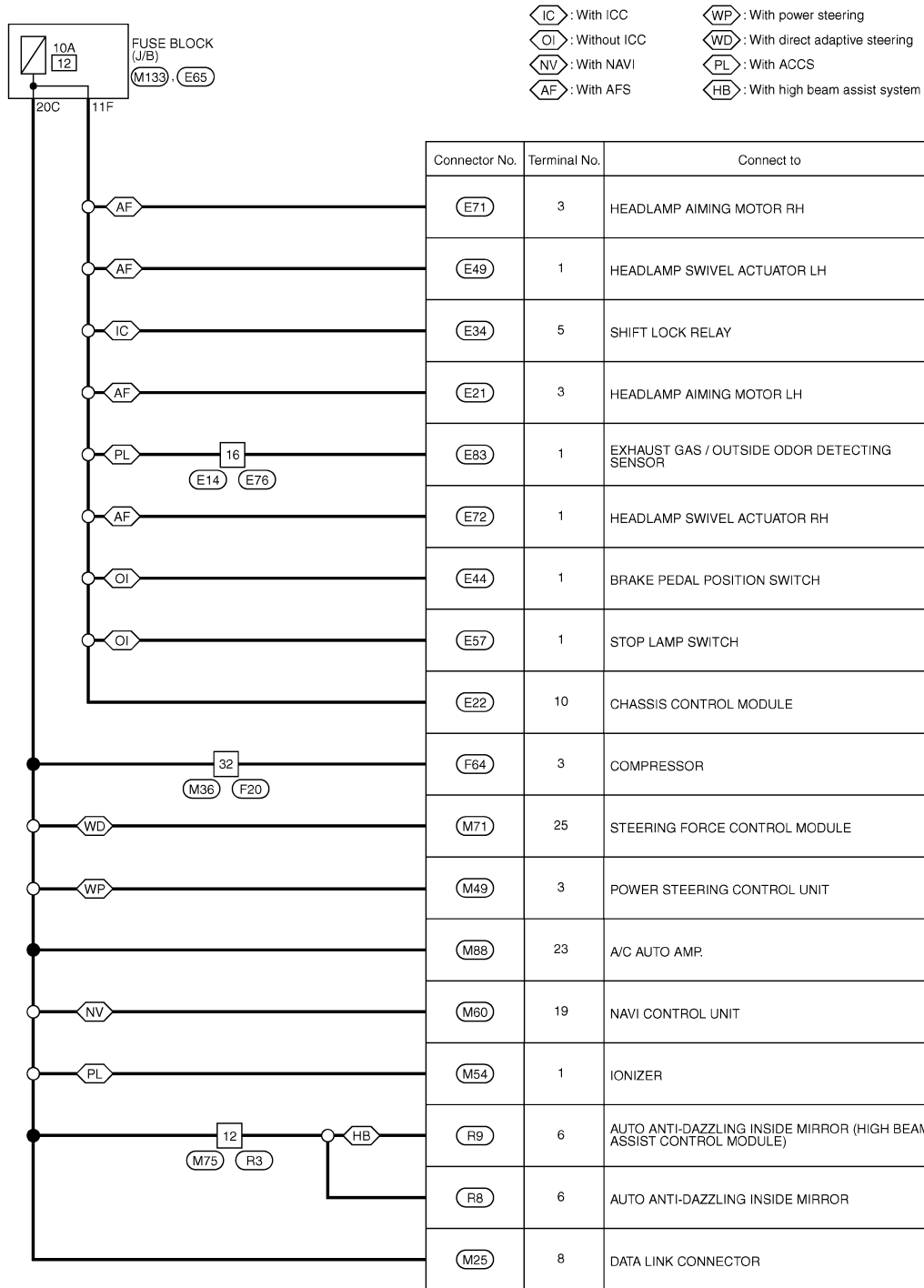
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 12 -

INFOID:000000009239724

### IGNITION POWER SUPPLY FUSE No. 12



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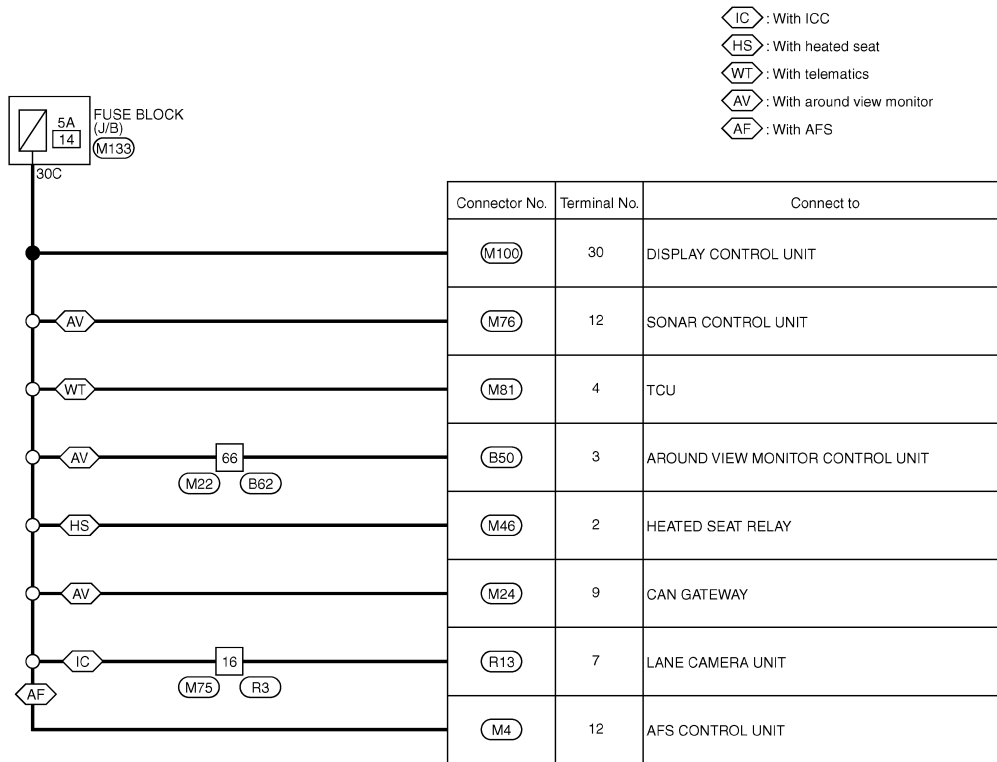
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 14 -

INFOID:000000009239725

### IGNITION POWER SUPPLY FUSE No. 14



2013/05/17

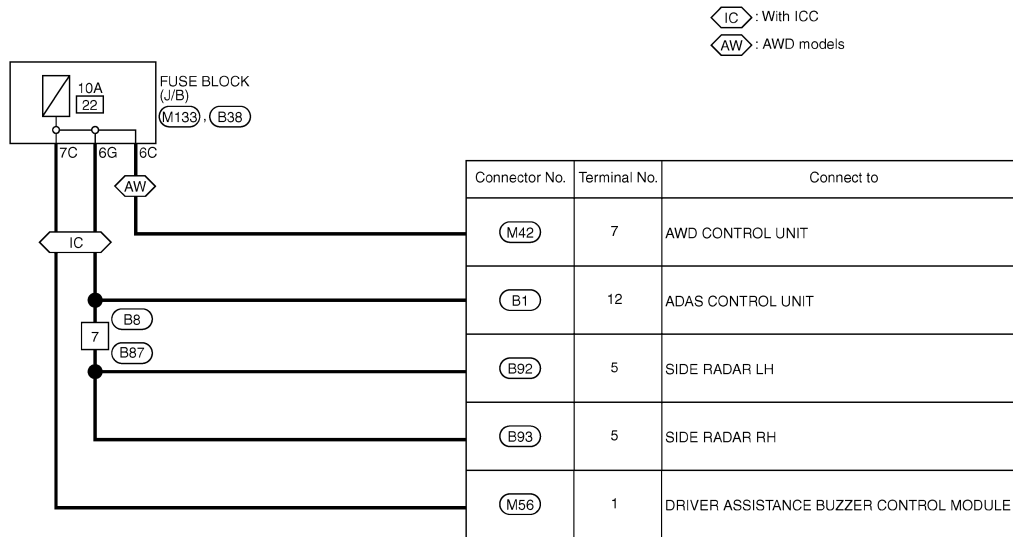
JRMWE0072GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 22 - IGNITION POWER SUPPLY FUSE No. 22

INFOID:000000009621400



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2013/05/17

JRMWE0073GB

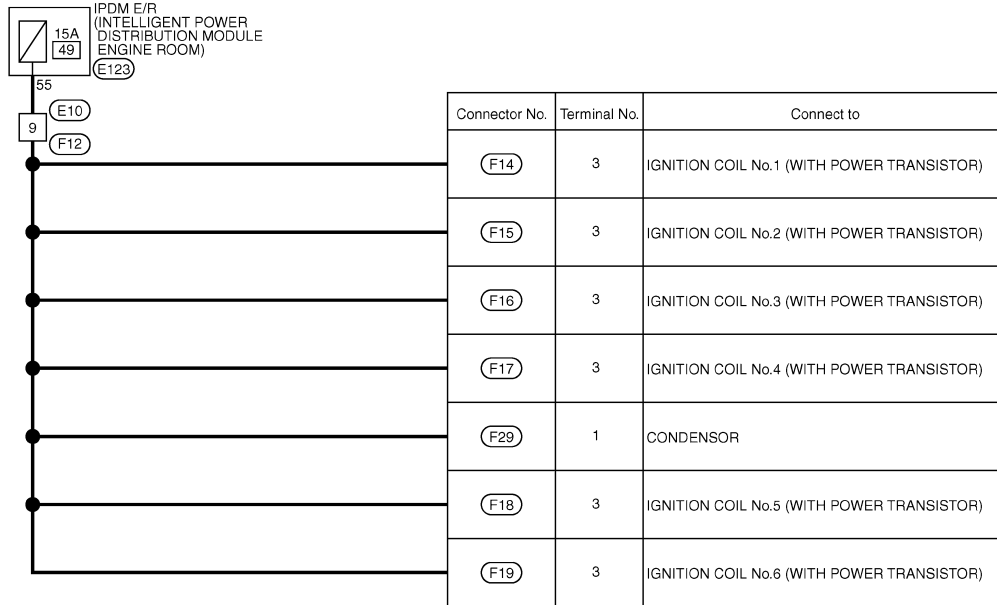
# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 49 -

INFOID:000000009621401

### IGNITION POWER SUPPLY FUSE No. 49



2013/05/17

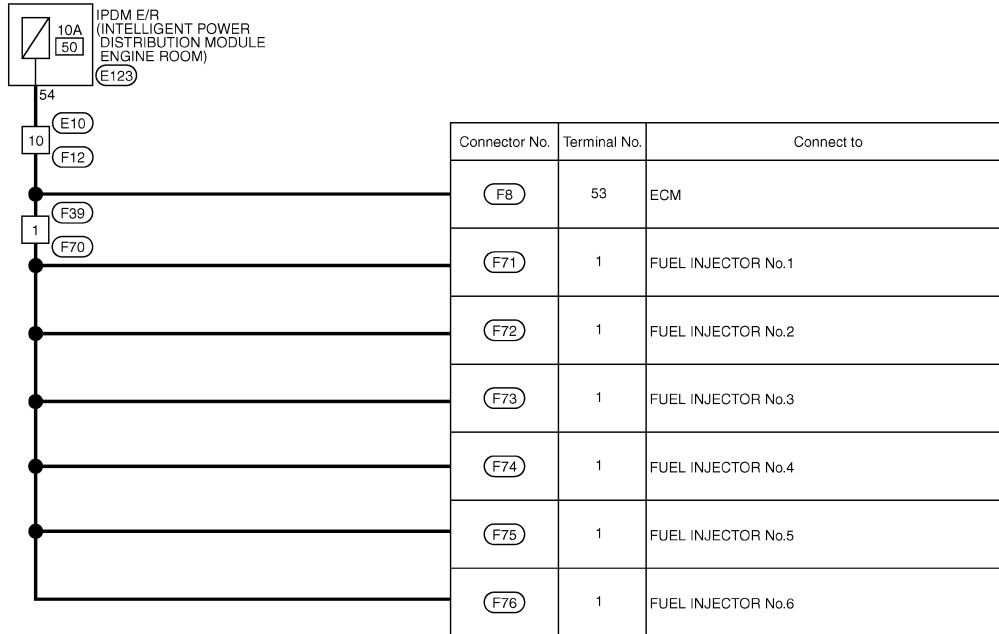
JRMWE0074GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 50 - IGNITION POWER SUPPLY FUSE No. 50

INFOID:000000009621402



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2013/05/17

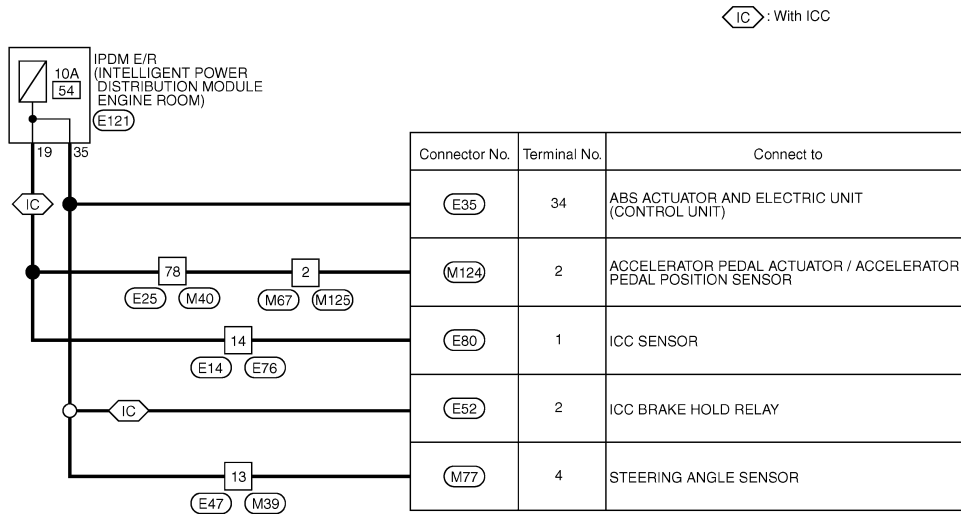
JRMWE0075GB

# POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 54 - IGNITION POWER SUPPLY FUSE No. 54

INFOID:000000009239726



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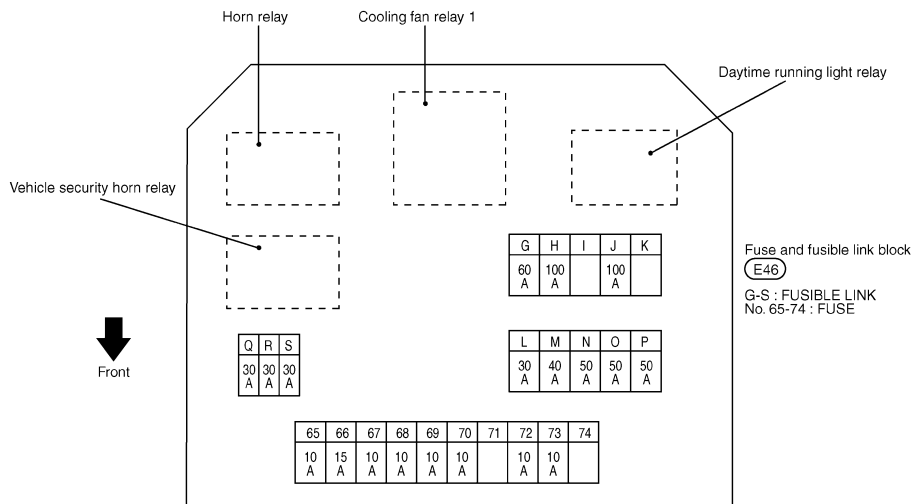
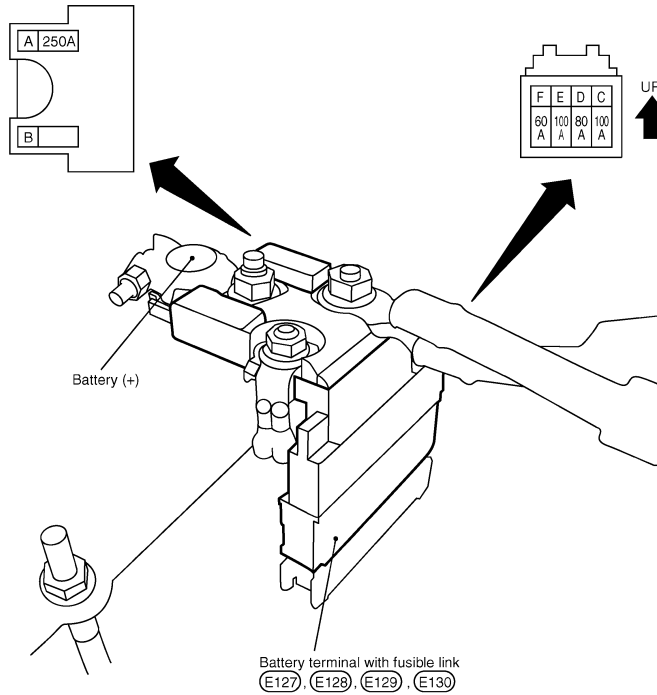
# FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

## FUSE, FUSIBLE LINK AND RELAY BOX

### Fuse and Fusible Link Arrangement

INFOID:00000009239729



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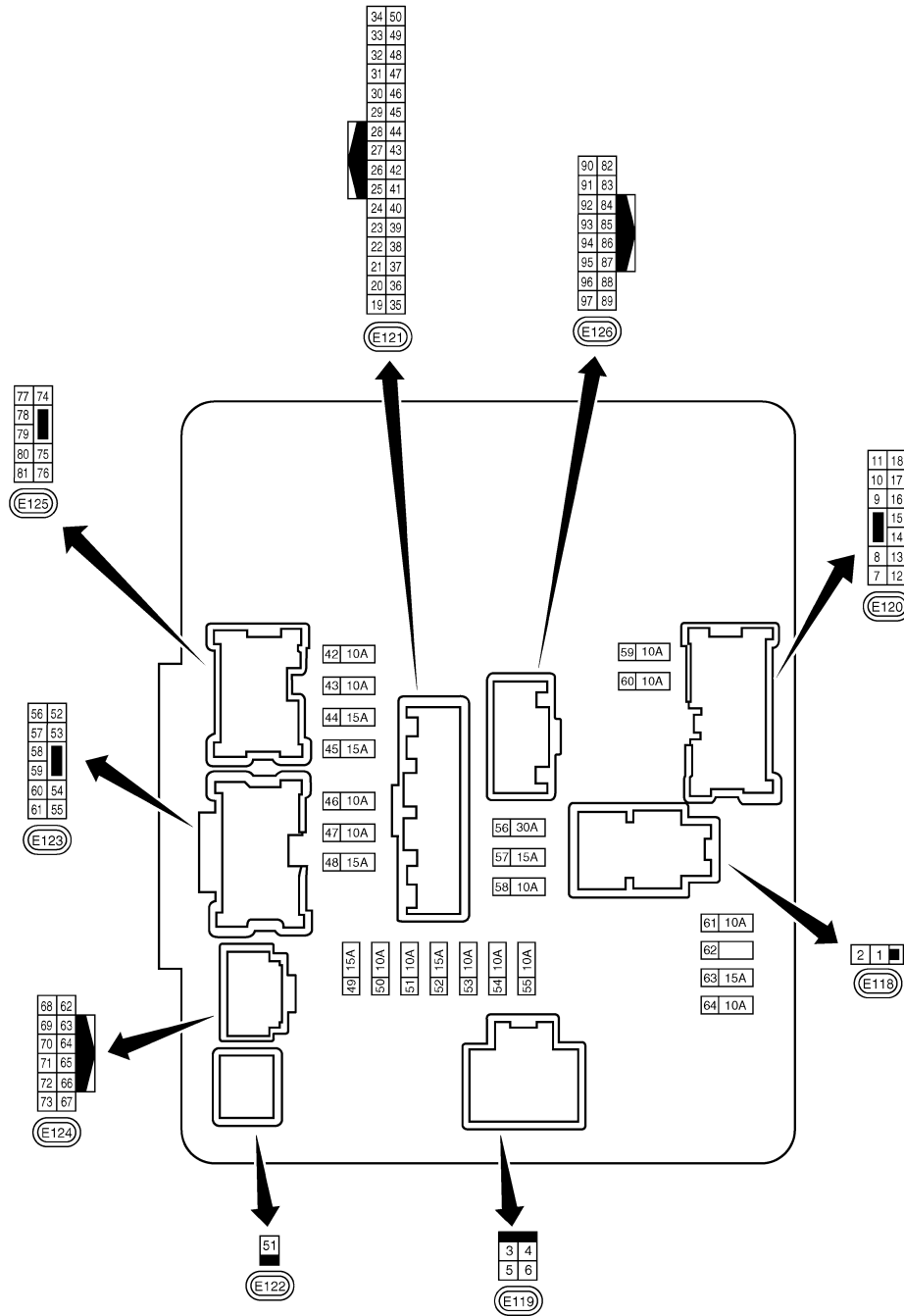
# IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

Fuse, Connector and Terminal Arrangement

INFOID:000000009239730



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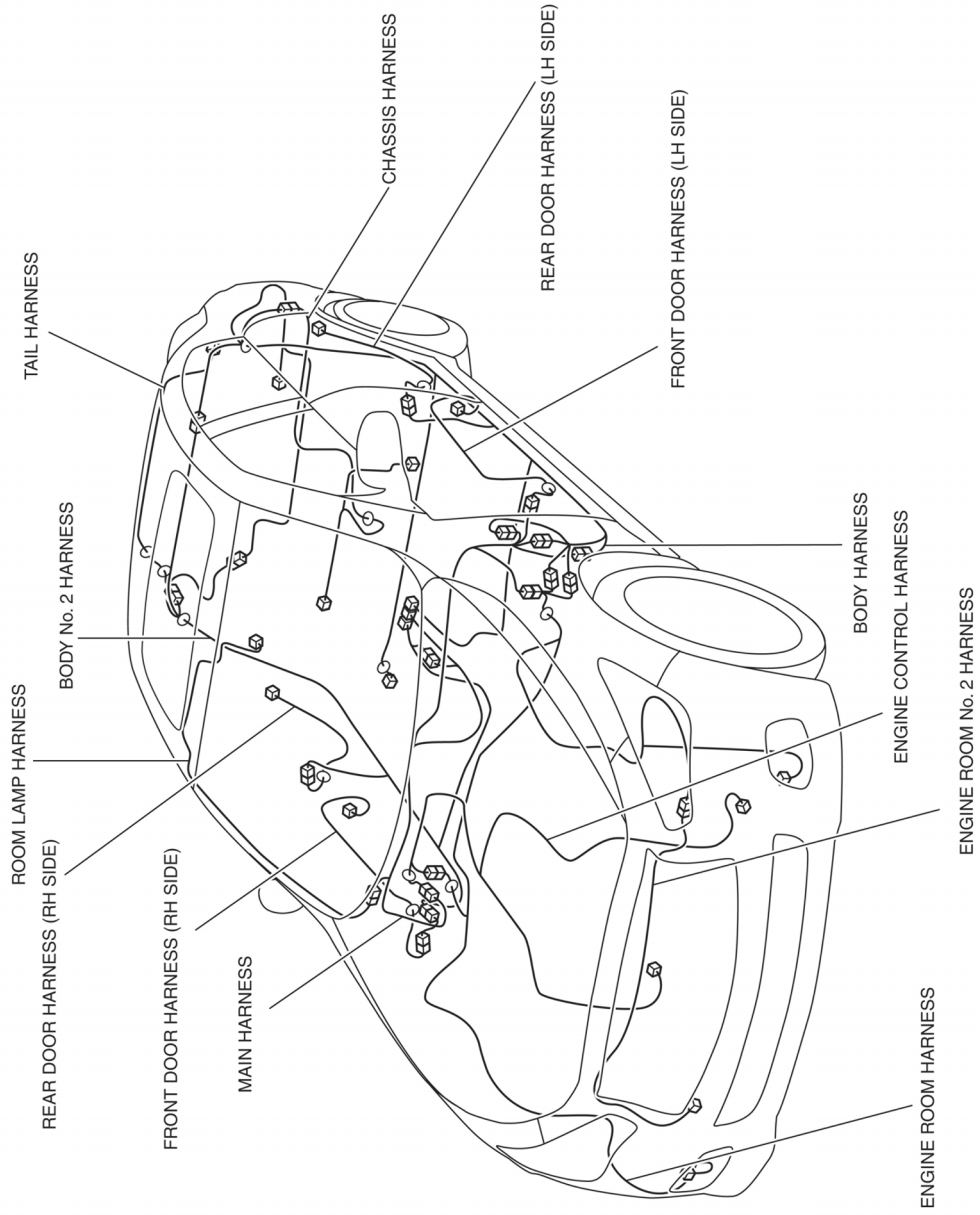
# HARNESS LAYOUT

< WIRING DIAGRAM >

## HARNESS LAYOUT

### Outline

INFOID:000000009445088



OUTLINE

2013/05/17

JRMIC2970GB

# HARNESS LAYOUT

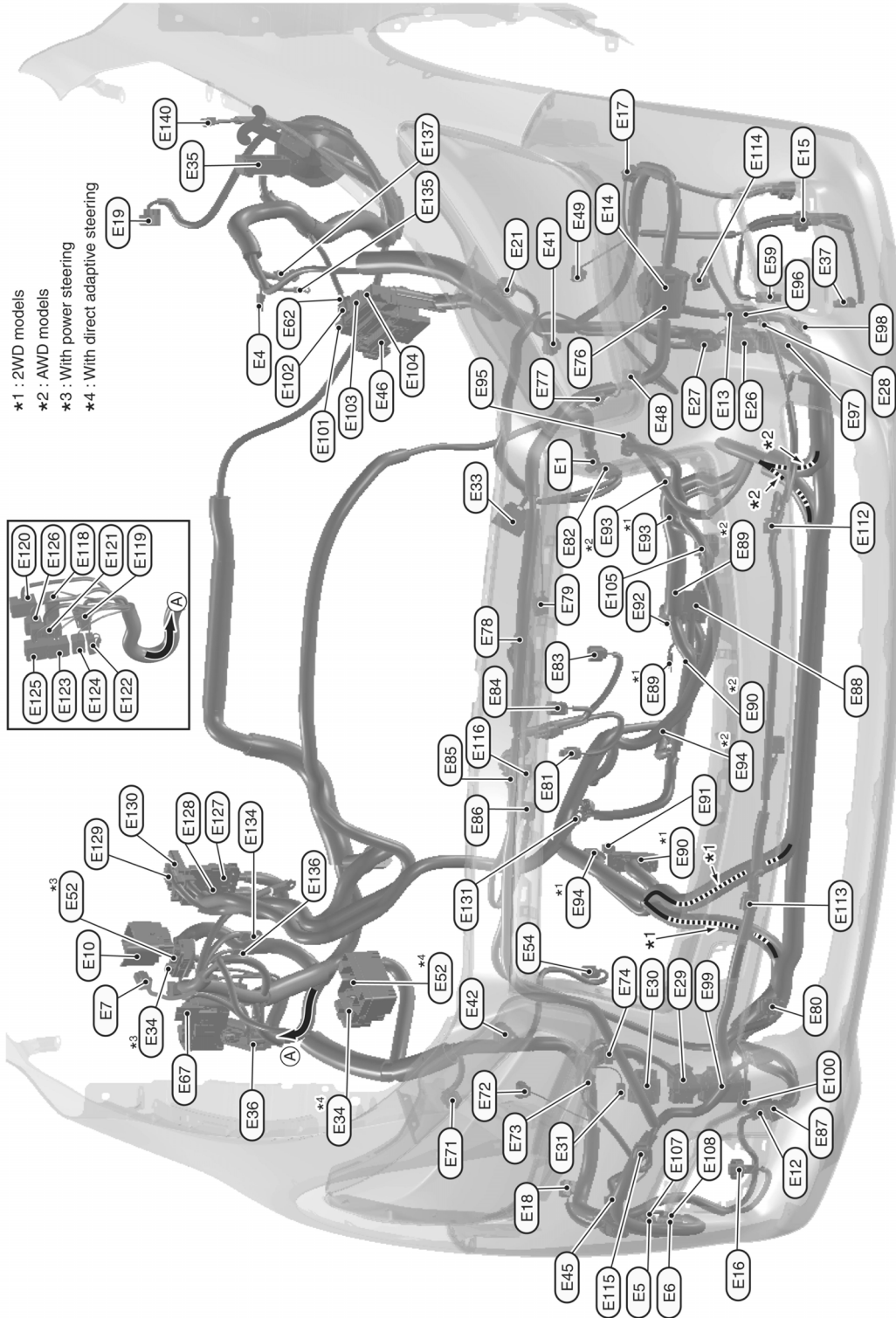
< WIRING DIAGRAM >

## Engine Room Harness

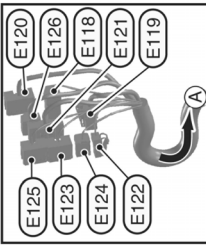
INFOID:000000009239733

### ENGINE COMPARTMENT

ENGINE ROOM HARNESS /  
Engine Compartment



- \*1 : 2WD models
- \*2 : AWD models
- \*3 : With power steering
- \*4 : With direct adaptive steering



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2013/05/17

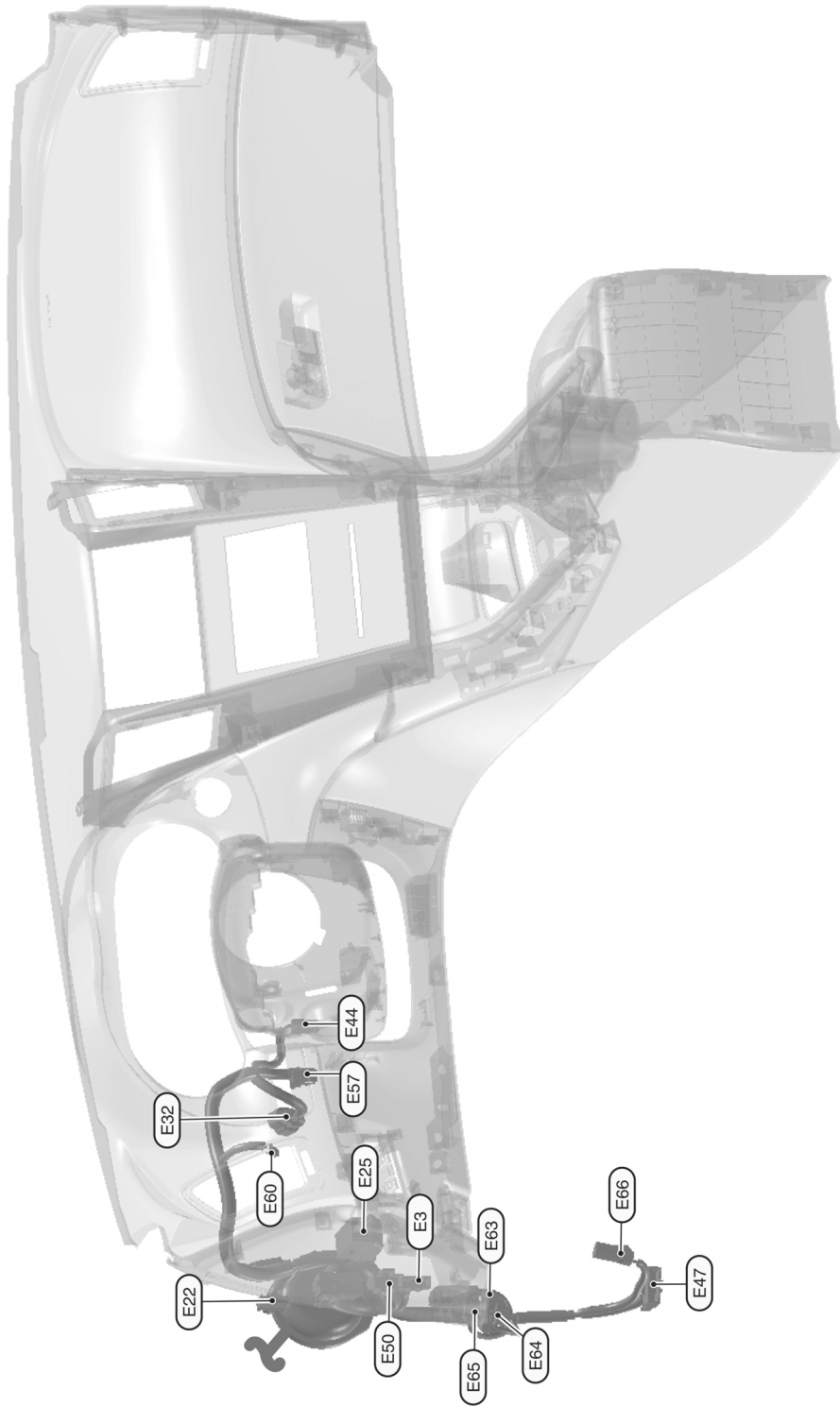
JRMIC2971GB

# HARNES LAYOUT

< WIRING DIAGRAM >

PASSENGER COMPARTMENT

Passenger Compartment



2013/05/17

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# HARNESS LAYOUT

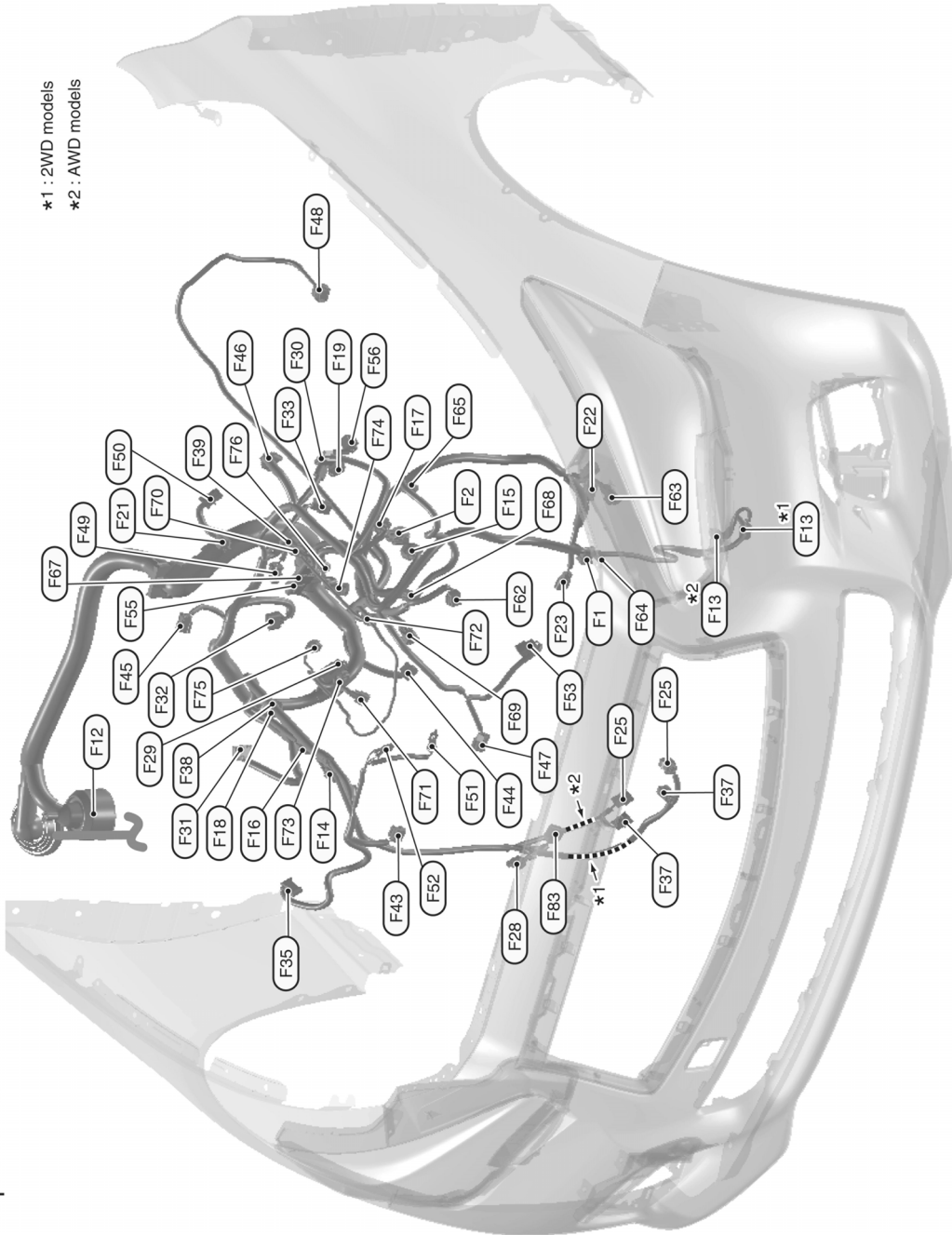
< WIRING DIAGRAM >

## Engine Control Harness

INFOID:000000009239734

### ENGINE COMPARTMENT

ENGINE CONTROL HARNESS /  
Engine Compartment



\*1 : 2WD models  
\*2 : AWD models

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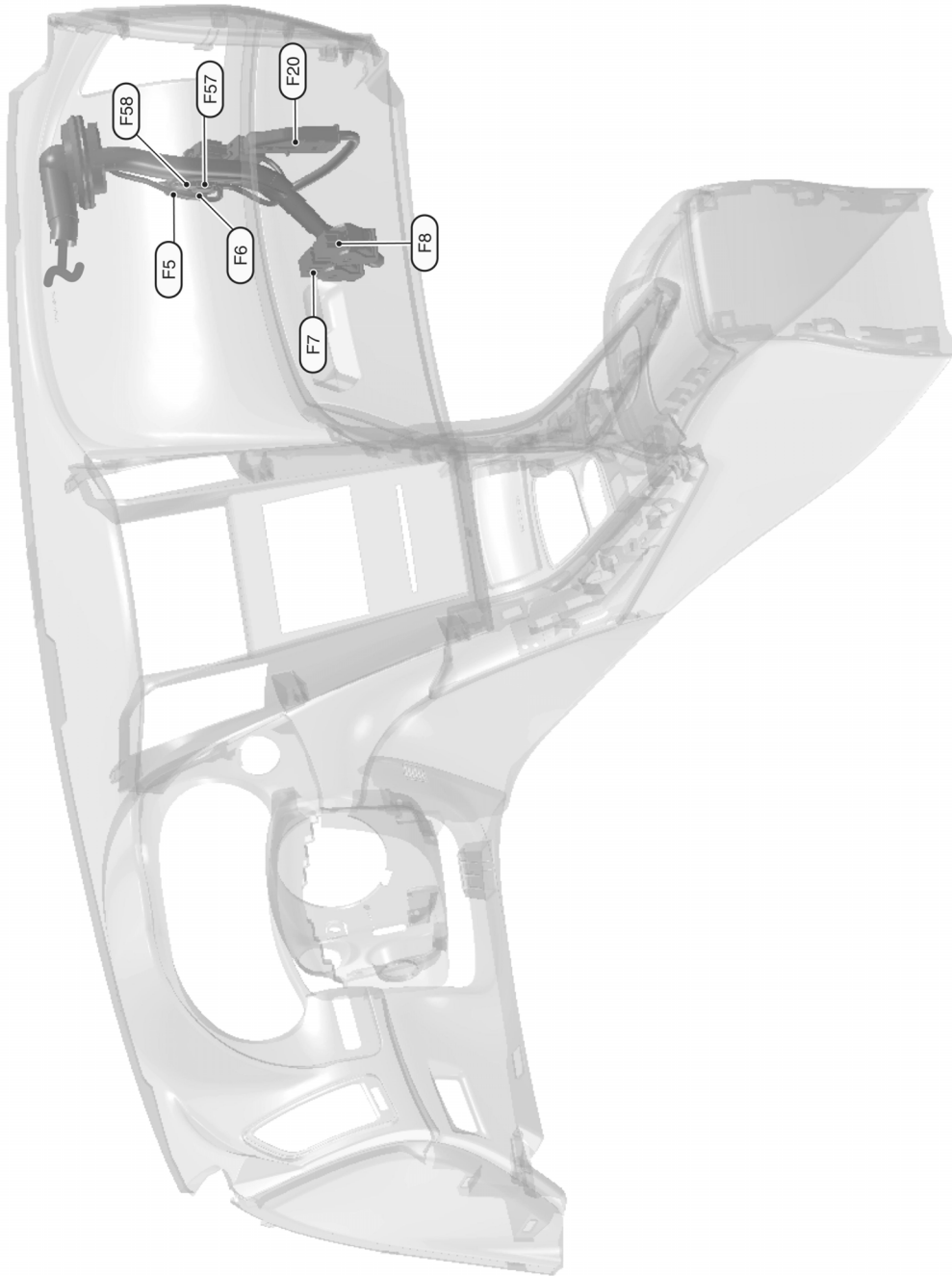
2013/05/17

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# HARNESS LAYOUT

< WIRING DIAGRAM >

PASSENGER COMPARTMENT



Passenger Compartment

2013/05/17

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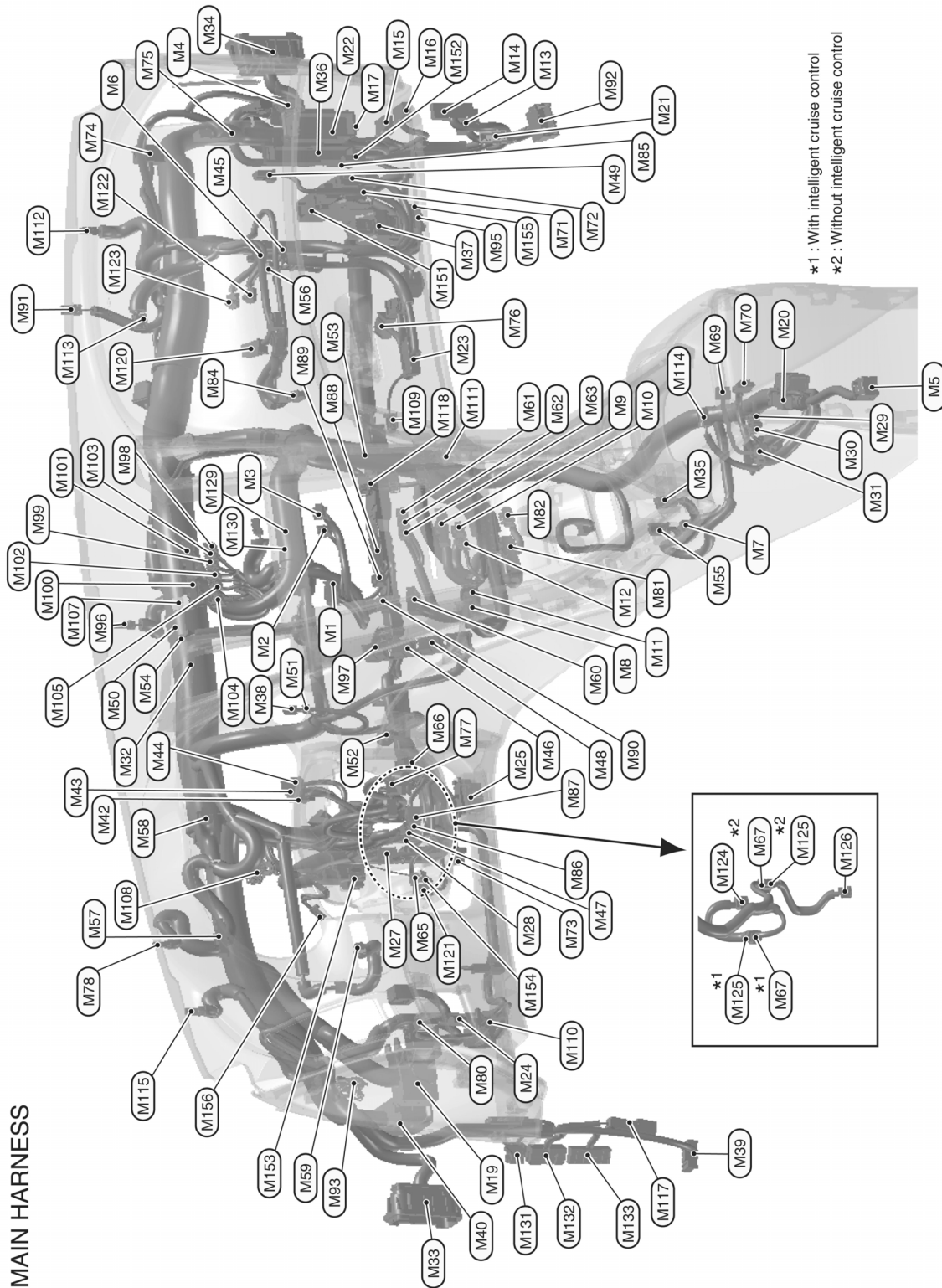


# HARNES LAYOUT

< WIRING DIAGRAM >

## Main Harness

INFOID:000000009239735



MAIN HARNES

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2013/05/17

JRMIC2975GB

# HARNES LAYOUT

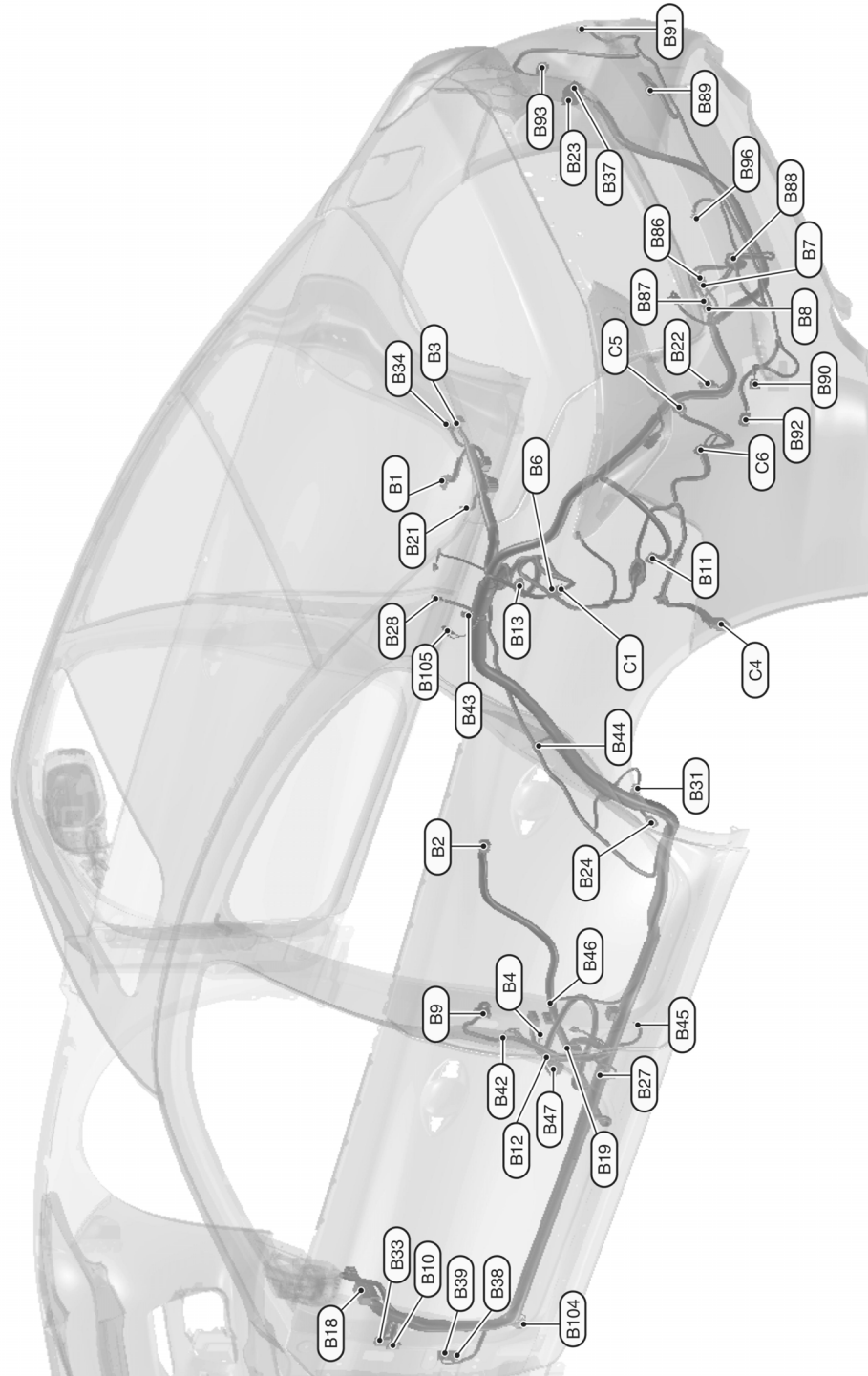
< WIRING DIAGRAM >

Body Harness

INFOID:000000009239736

BODY HARNESS

BODY HARNESS

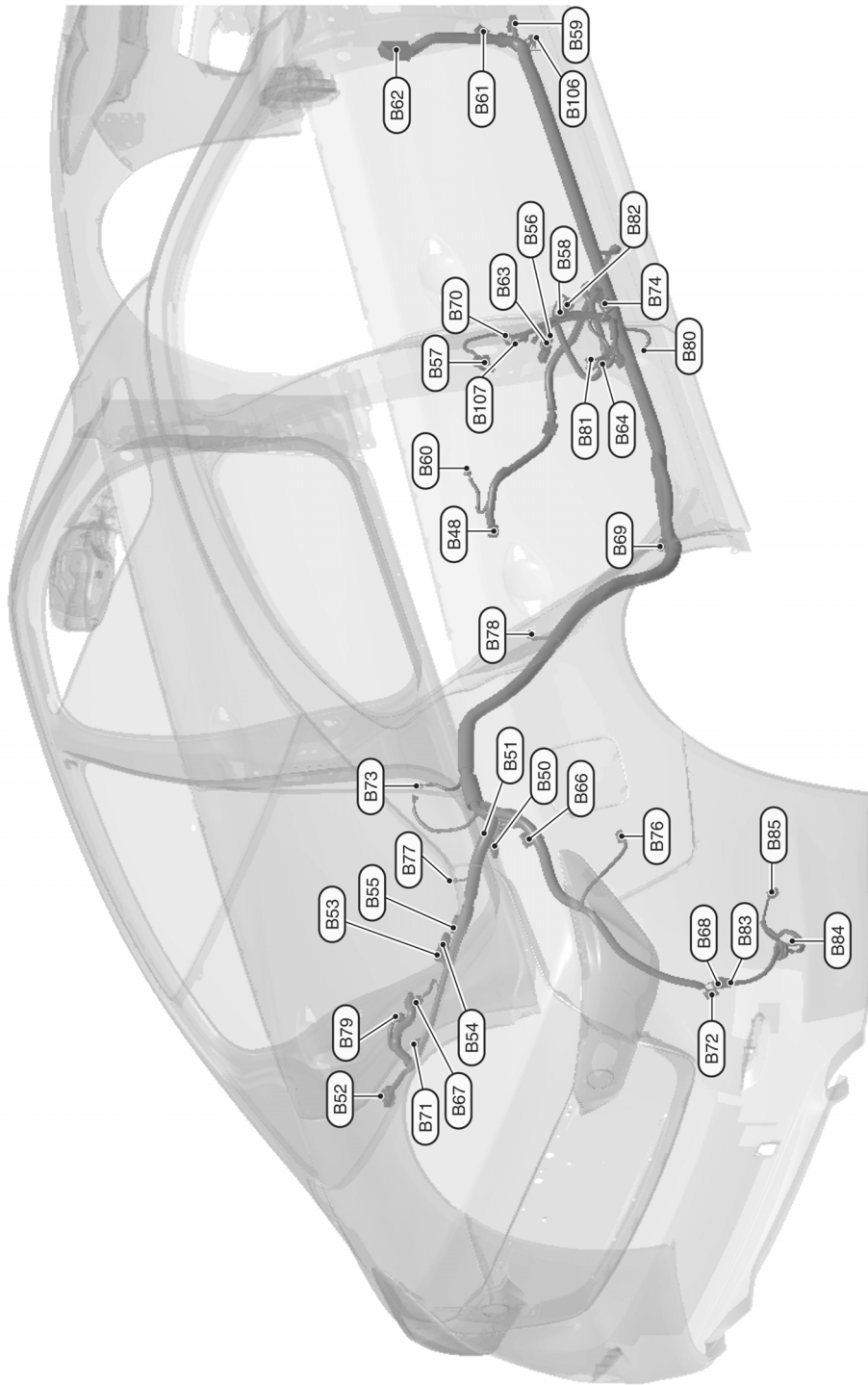


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# HARNES LAYOUT

< WIRING DIAGRAM >  
BODY No. 2 HARNESS



BODY No. 2 HARNESS

2013/05/17

JRMIC2977GB

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# HARNESS LAYOUT

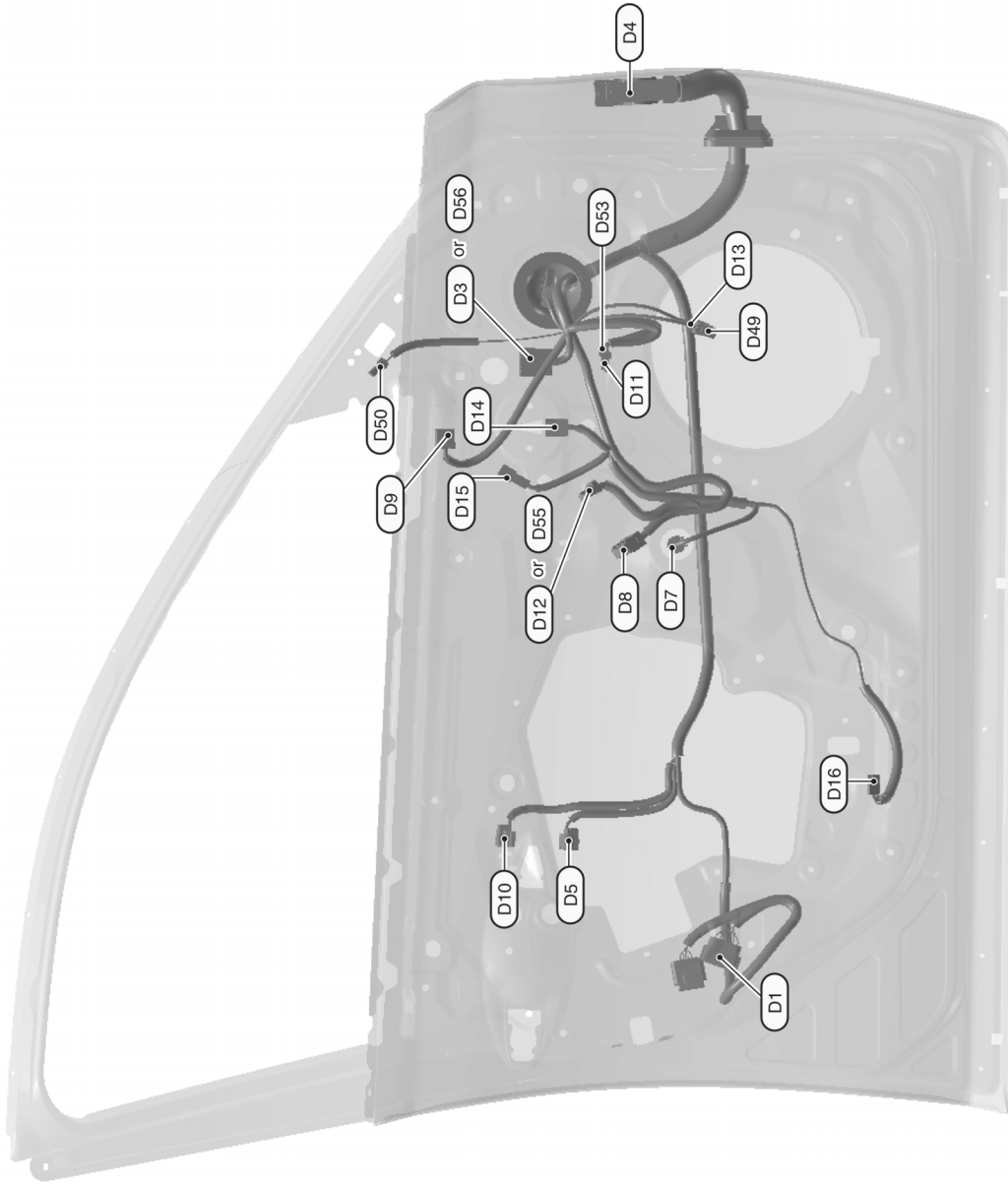
< WIRING DIAGRAM >

## Door Harness

INFOID:000000009239737

### FRONT DOOR HARNESS (LH SIDE)

FRONT DOOR HARNESS (LH SIDE)



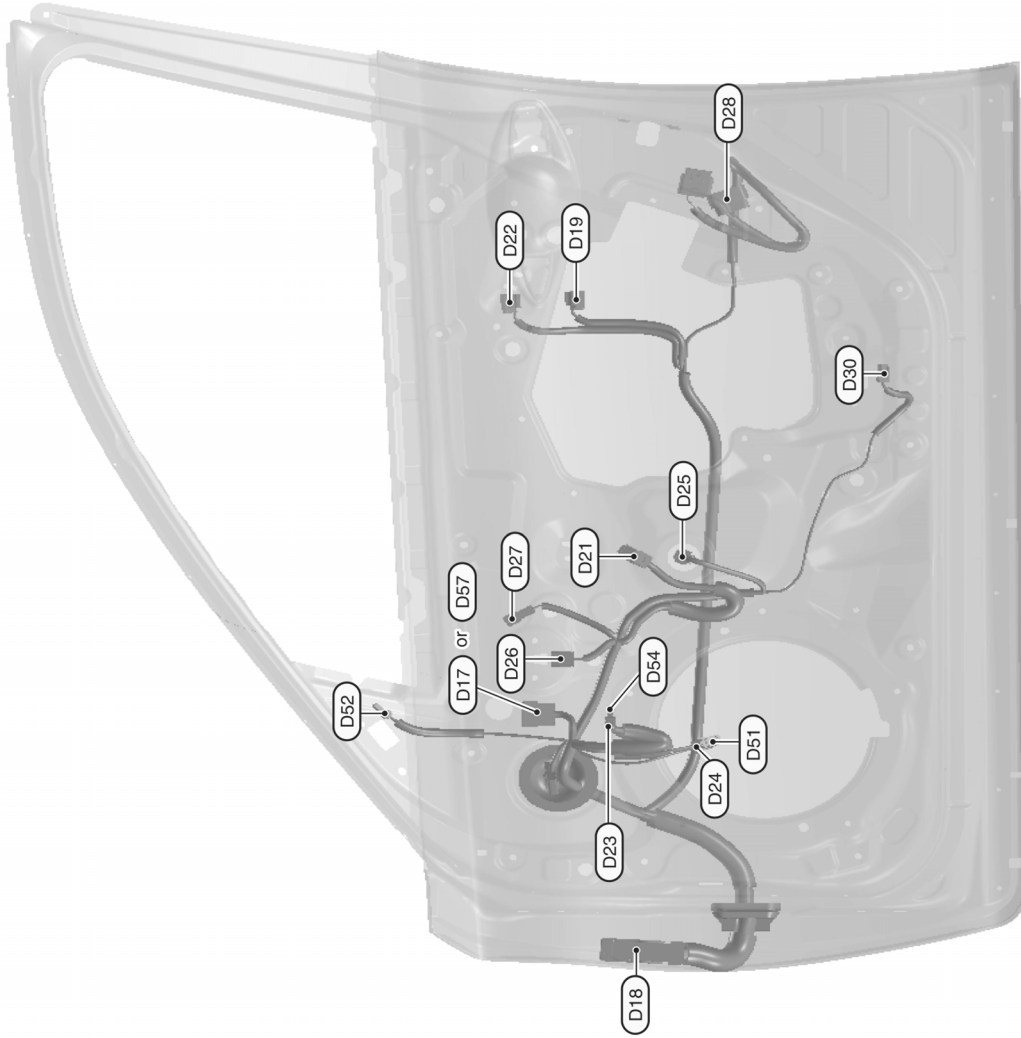
JRMIC2978GB  
2013/05/17

# HARNES LAYOUT

< WIRING DIAGRAM >

## FRONT DOOR HARNESS (RH SIDE)

FRONT DOOR HARNESS (RH SIDE)



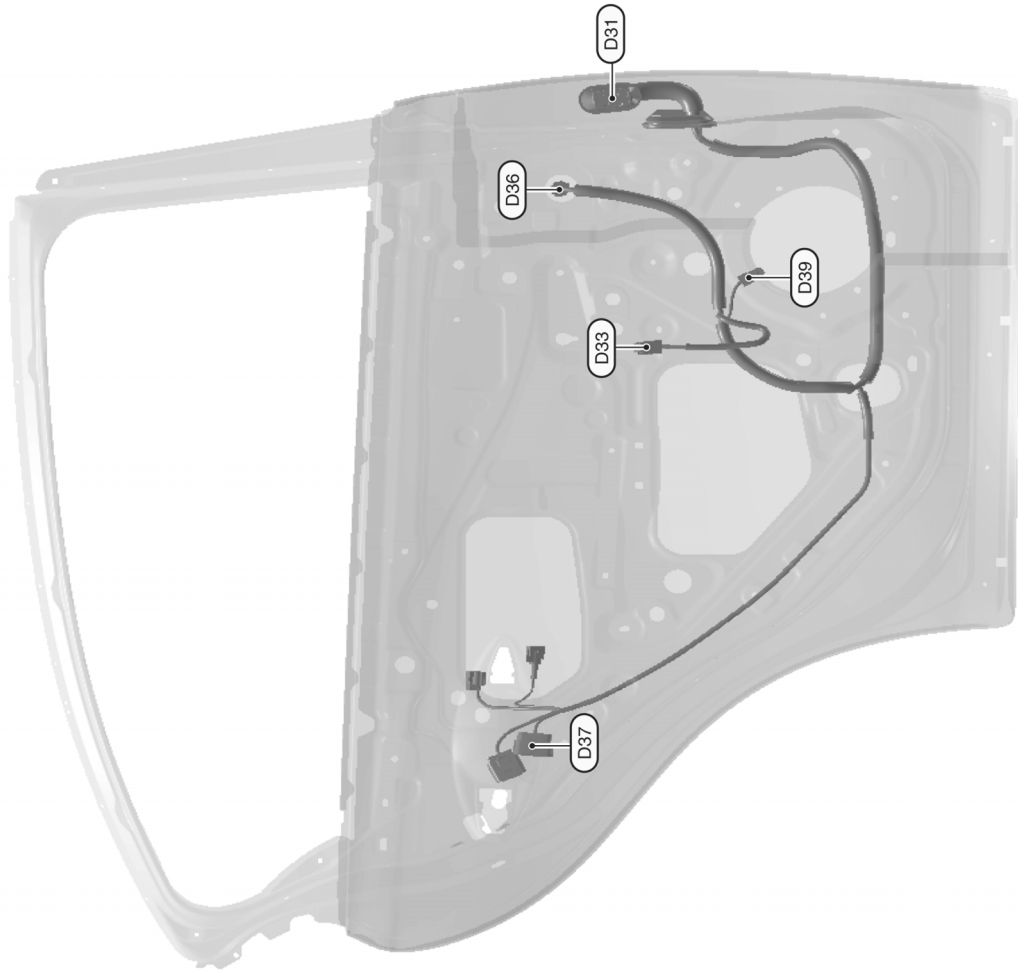
JRMIC2979GB  
2013/05/17

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# HARNES LAYOUT

< WIRING DIAGRAM >

REAR DOOR HARNES (LH SIDE)



REAR DOOR HARNES (LH SIDE)

2013/05/17

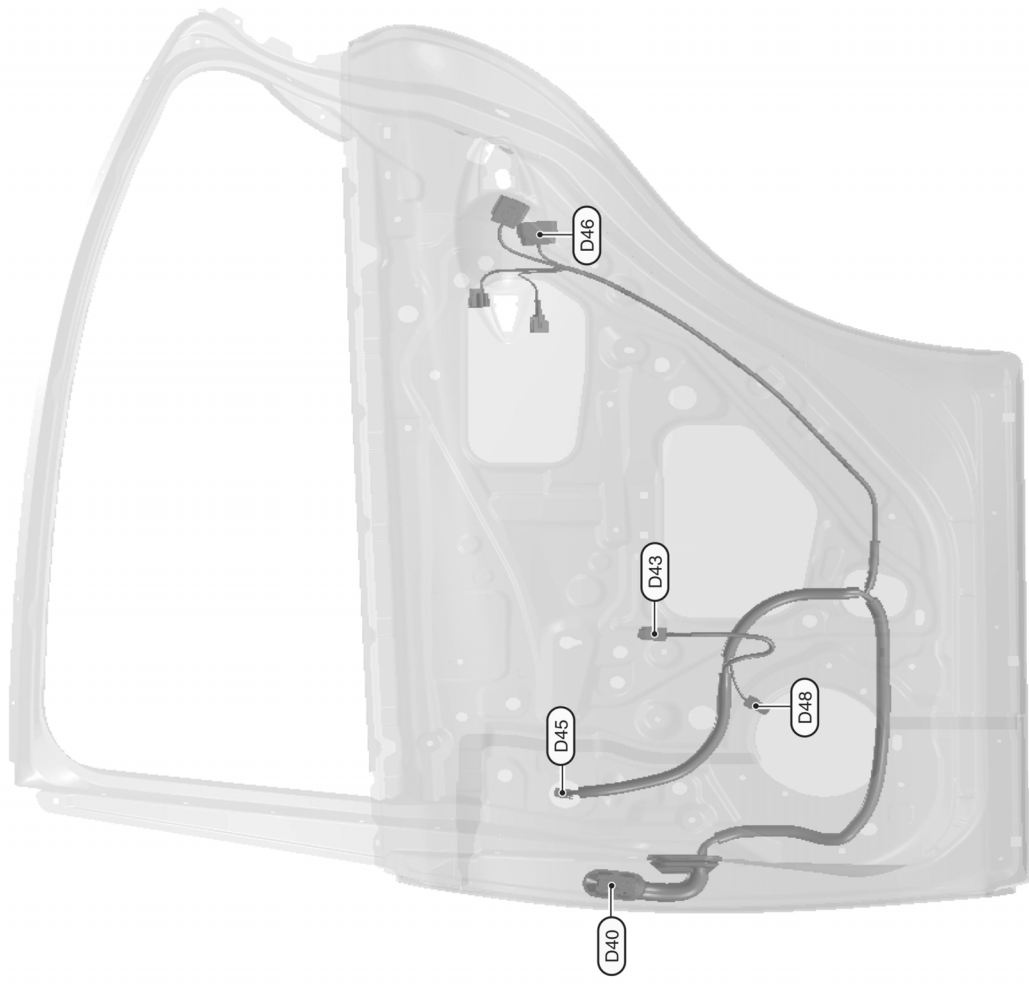
JRMIC2980GB

# HARNES LAYOUT

< WIRING DIAGRAM >

REAR DOOR HARNESS (RH SIDE)

REAR DOOR HARNESS (RH SIDE)



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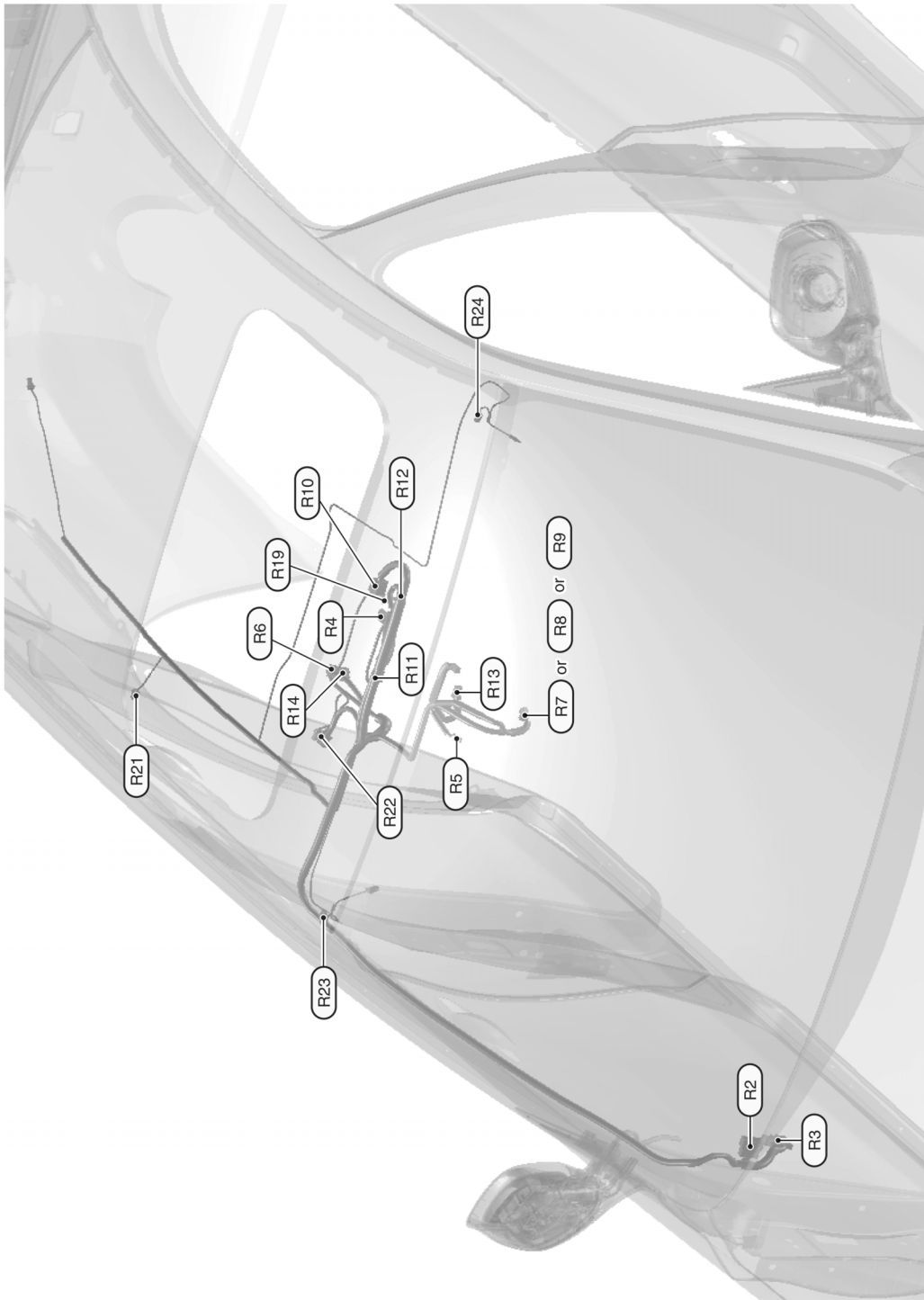
JRMIC2981GB  
2013/05/17

# HARNES LAYOUT

< WIRING DIAGRAM >

## Room Lamp Harness

INFOID:000000009239738



ROOM LAMP HARNESS

2013/05/17

JRMIC2982GB

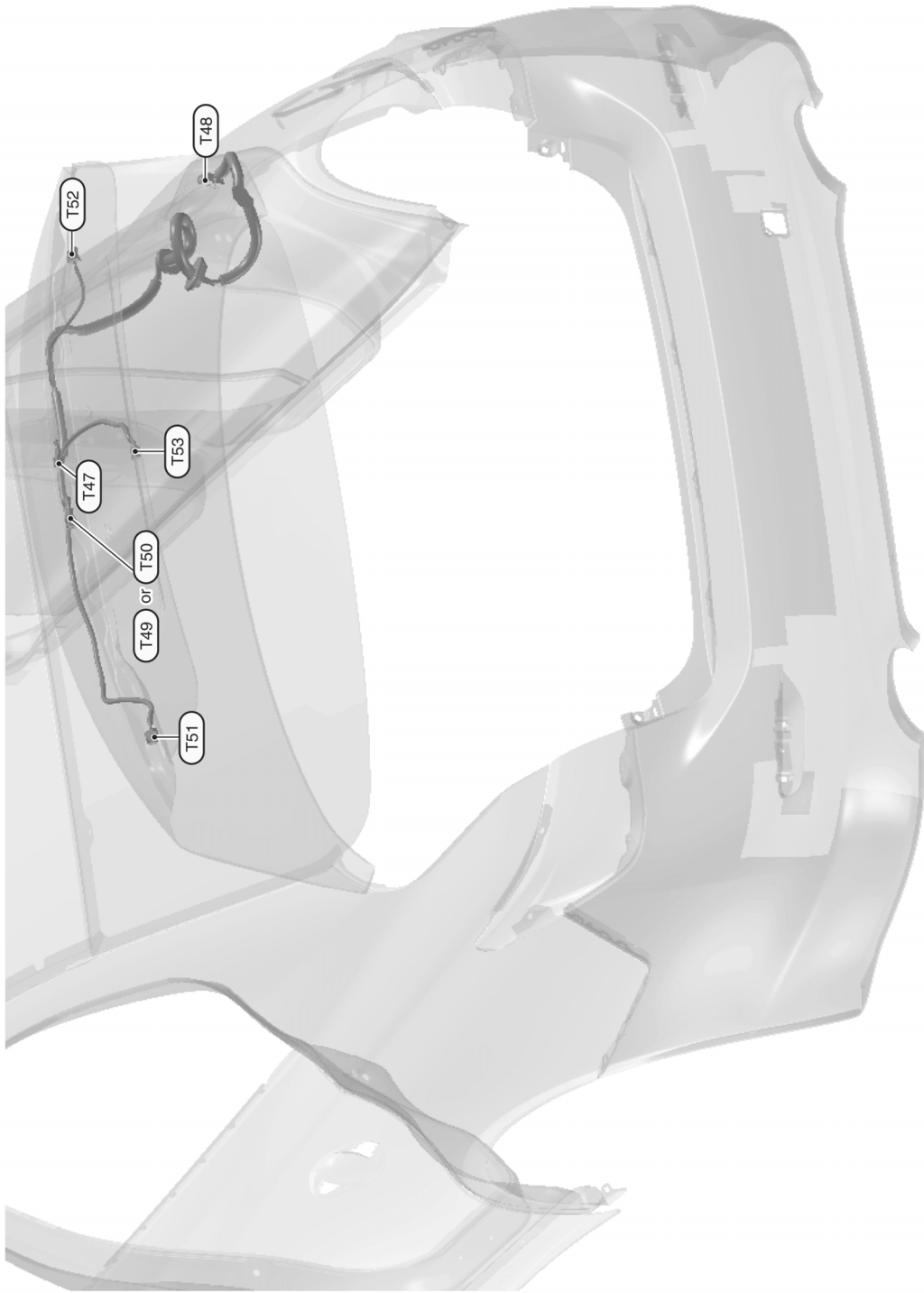


# HARNES LAYOUT

< WIRING DIAGRAM >

## Tail Harness

INFOID:000000009239739



TAIL HARNESS

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2013/05/17

JRMIC2983GB

# BATTERY INSPECTION

< BASIC INSPECTION >

## BASIC INSPECTION

### BATTERY INSPECTION

#### How to Handle Battery

INFOID:000000009239748

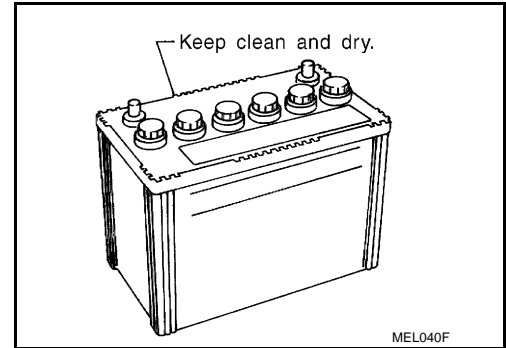
#### CAUTION:

- 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.

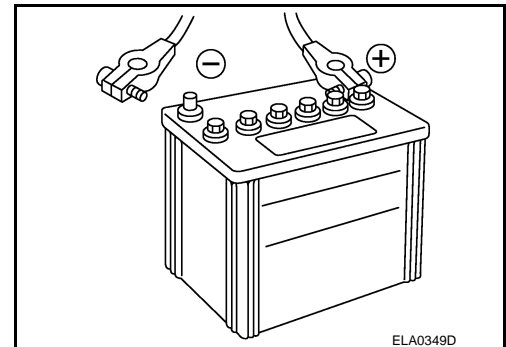
#### METHODS OF PREVENTING OVER-DISCHARGE

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:000000009239749

#### 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

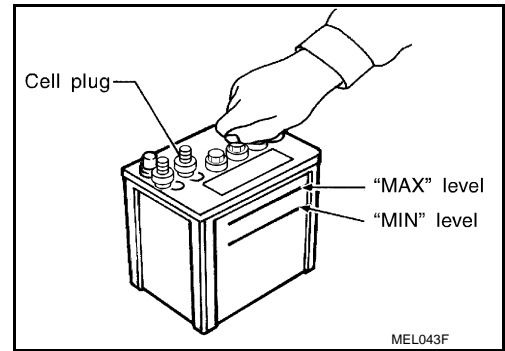
#### WARNING:

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.

# BATTERY INSPECTION

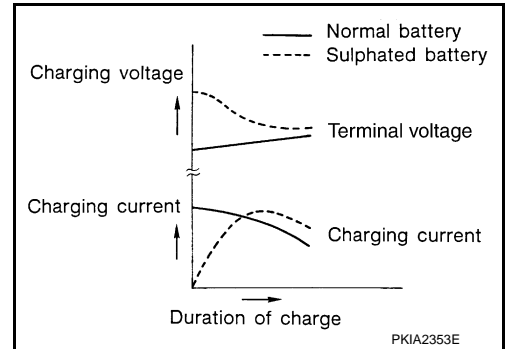
## < BASIC INSPECTION >

- 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.



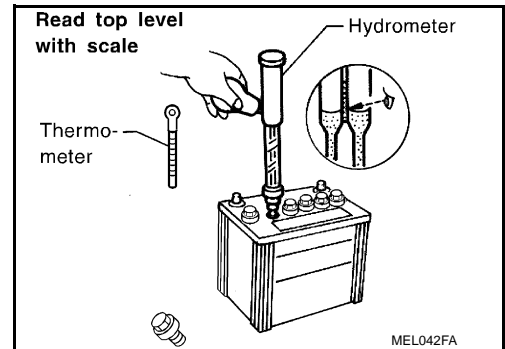
## Specific Gravity Check

### 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.

# FUSE INSPECTION

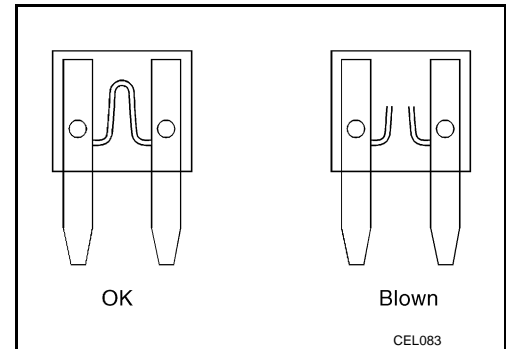
< BASIC INSPECTION >

## FUSE INSPECTION

### How To Check

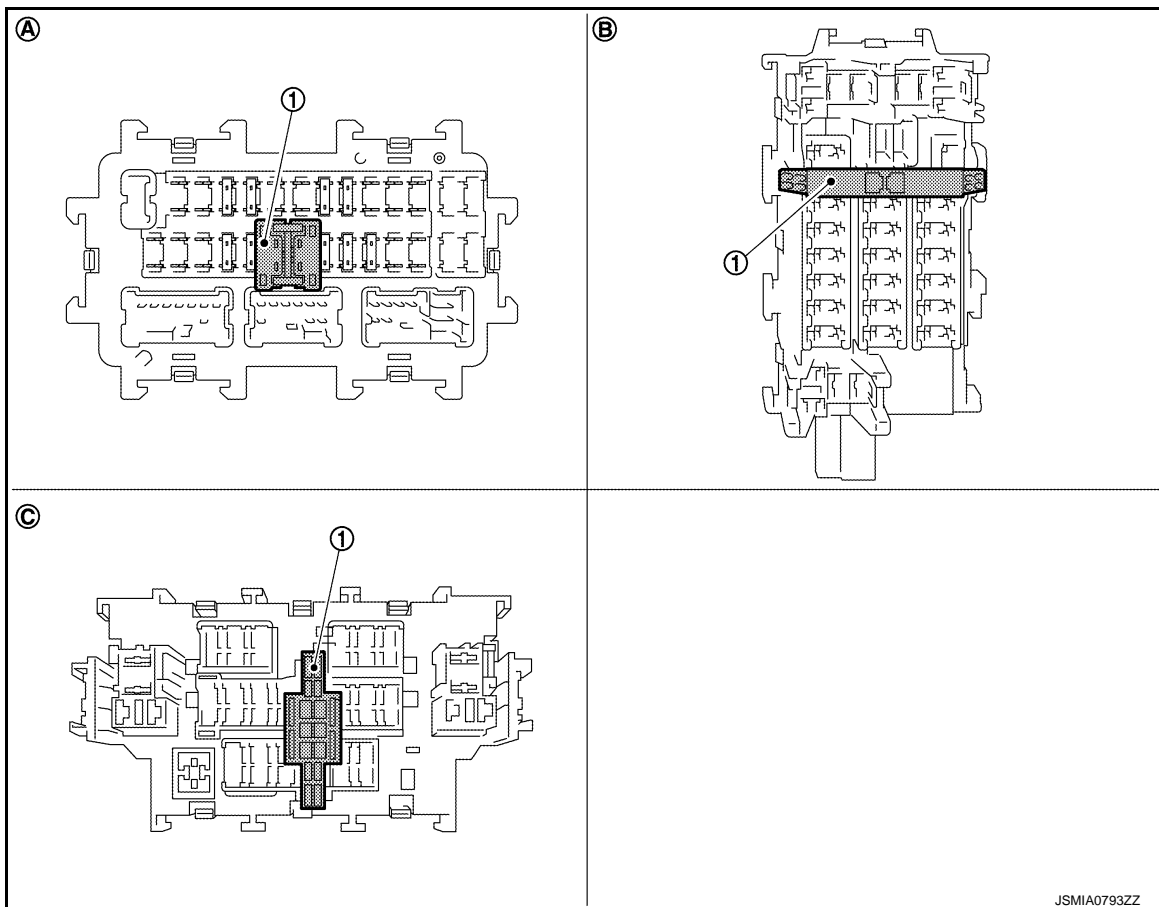
INFOID:000000009239750

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



### EXTENDED STORAGE FUSE SWITCH (IF EQUIPPED)

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



① Extended storage fuse switch

Ⓐ Type A

Ⓑ Type B

Ⓒ Type C

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

How To Extended Storage Fuse Switch ON/OFF

#### CAUTION:

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

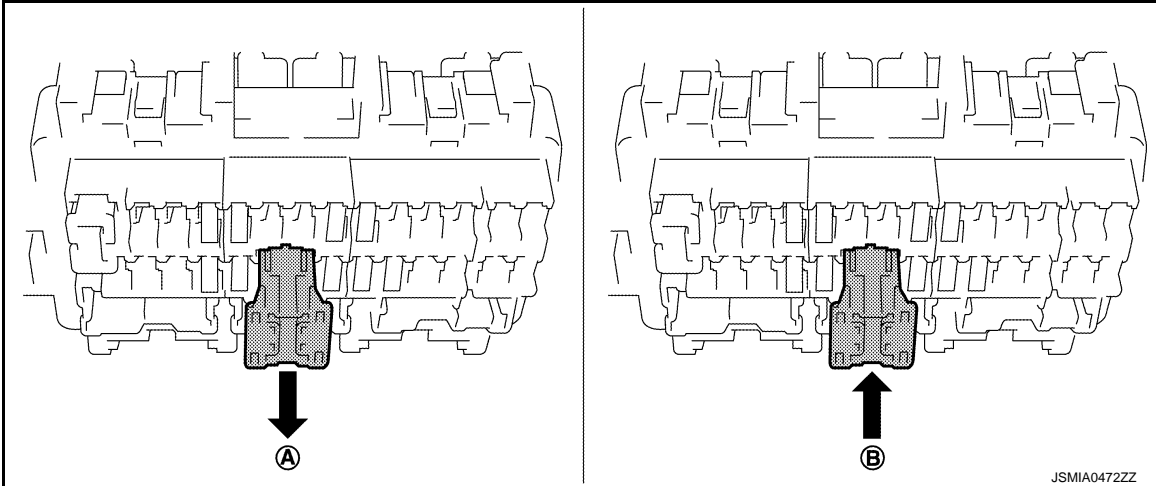
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M  
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P

PG

# FUSE INSPECTION

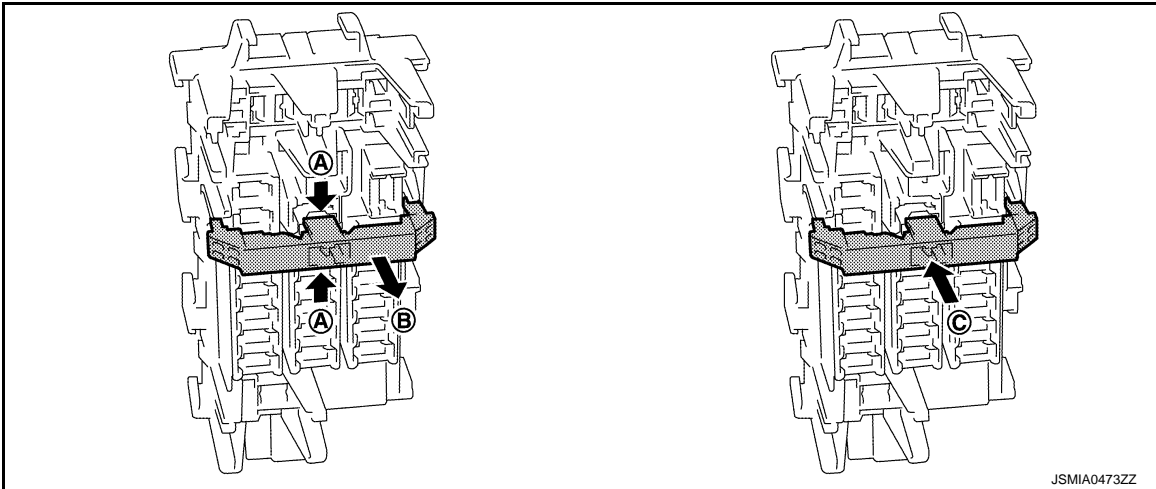
## < BASIC INSPECTION >

### • Type A



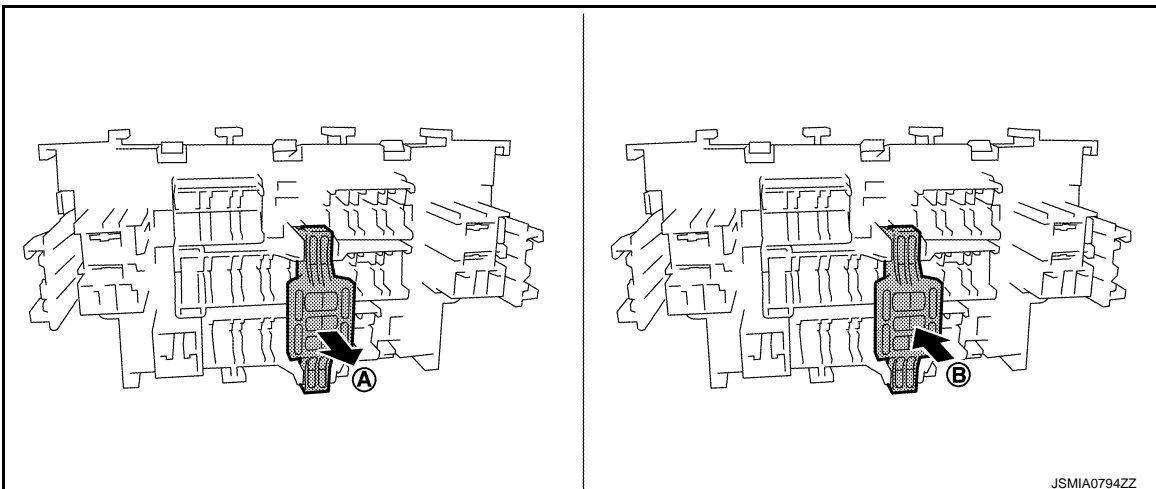
- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

### • 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.

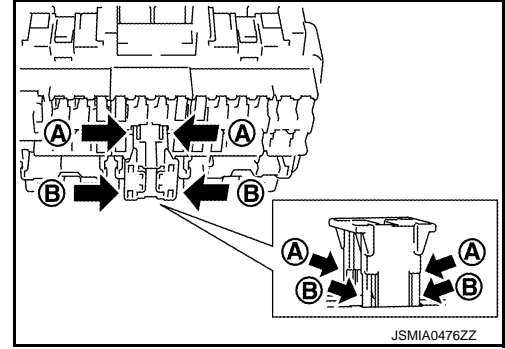
## How To Remove Extended Storage Fuse Switch

### Type A

# 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.

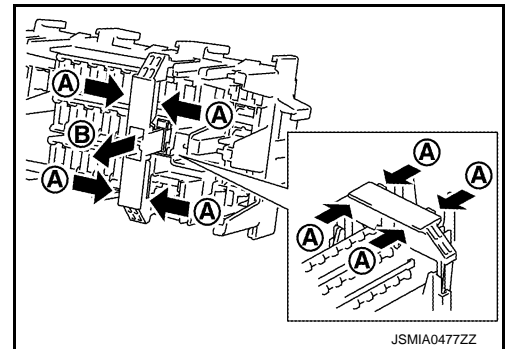


### NOTE:

- 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.

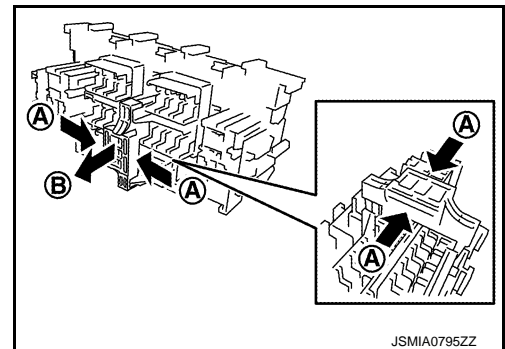


### NOTE:

- 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.

A  
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## FUSE INSPECTION

### < BASIC INSPECTION >

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



# FUSIBLE LINK INSPECTION

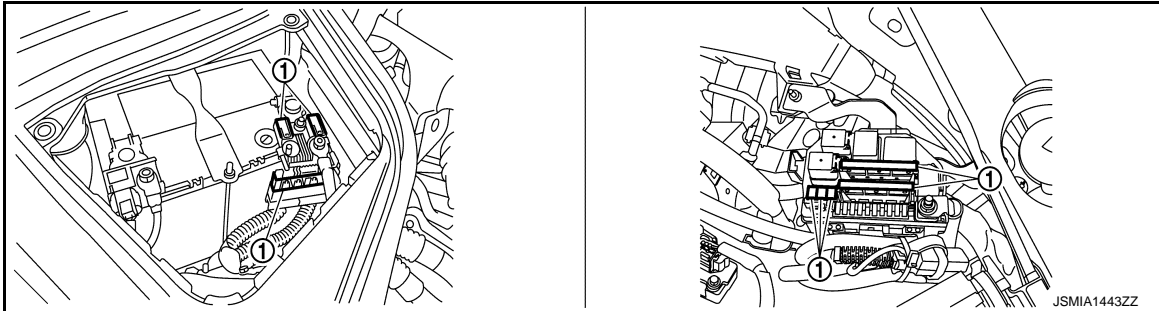
< BASIC INSPECTION >

## FUSIBLE LINK INSPECTION

### How To Check

INFOID:000000009239751

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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PG

# BATTERY

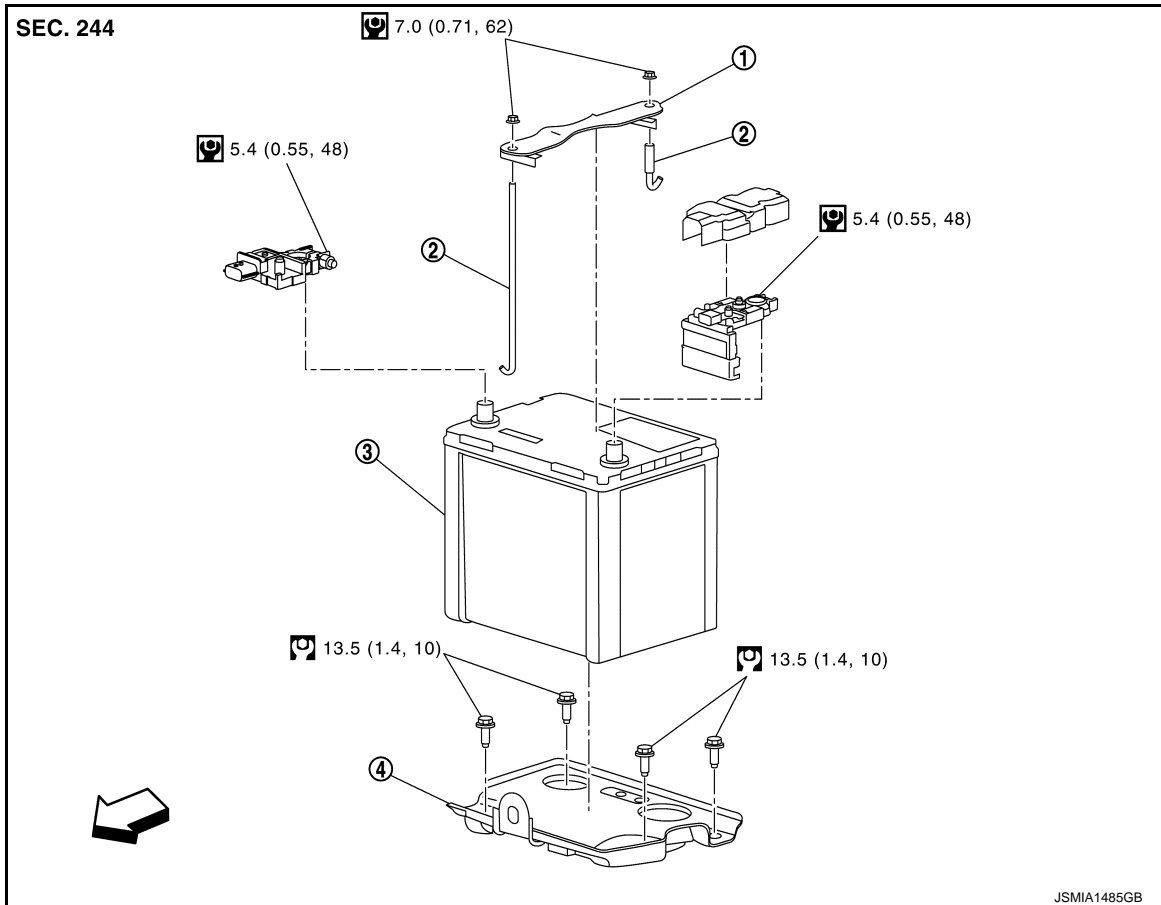
< REMOVAL AND INSTALLATION >

## REMOVAL AND INSTALLATION

### BATTERY

Exploded View

INFOID:000000009239752



① Battery fix frame                      ② Battery fix rod                      ③ Battery

④ Battery tray

← : Vehicle front

: N·m (kg-m, ft-lb)

: N·m (kg-m, in-lb)

## Removal and Installation

INFOID:000000009239753

### REMOVAL

1. Remove cowl top cover RH. Refer to [EXT-26, "Exploded View"](#).
2. Disconnect the battery cable from the negative terminal.

#### **CAUTION:**

**To prevent damage to the parts, disconnect the battery cable from the negative terminal first.**

3. Remove cover of battery positive terminal.
4. Disconnect the battery cable from the positive terminal.
5. Remove battery fix frame mounting nuts and battery fix frame.
6. Remove battery.
7. Remove battery tray mounting bolts and battery tray.

# BATTERY

## < REMOVAL AND INSTALLATION >

---

### INSTALLATION

Install in the reverse order of removal.

**CAUTION:**

**When connecting, connect the battery cable to the positive terminal first.**

Reset electronic systems as necessary. Refer to [GI-77, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection"](#).

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PG


# BATTERY TERMINAL WITH FUSIBLE LINK

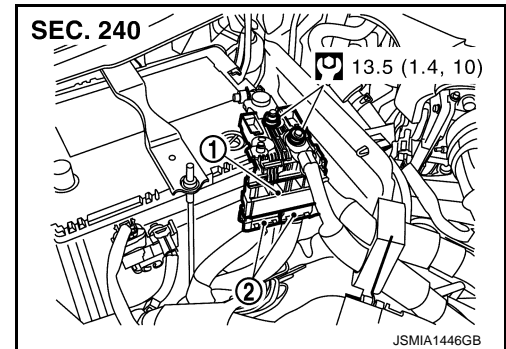
< REMOVAL AND INSTALLATION >

## BATTERY TERMINAL WITH FUSIBLE LINK

### Exploded View

INFOID:000000009239754

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



### Removal and Installation

INFOID:000000009239755

#### REMOVAL

1. Remove hoodledge cover RH. Refer to [EXT-26, "Exploded View"](#).
2. Disconnect the battery cable from the negative terminal. Refer to [PG-106, "Exploded View"](#).

**CAUTION:**

**To prevent damage to the parts, disconnect the battery cable from the negative terminal first.**

3. Remove cover of battery positive terminal.
4. Remove harness mounting nuts and battery terminal with fusible link mounting nut.
5. Disconnect harness connector and remove battery terminal with fusible link.

#### INSTALLATION

Install in the reverse order of removal.

**CAUTION:**

**When connecting, connect the battery cable to the positive terminal first.**


# BATTERY CURRENT SENSOR

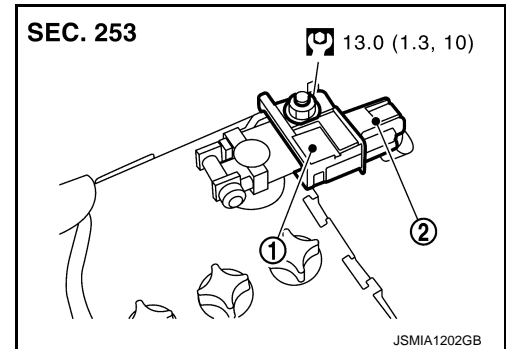
< REMOVAL AND INSTALLATION >

## BATTERY CURRENT SENSOR

### Exploded View

INFOID:000000009337811

- ① : Battery current sensor  
(With battery temperature sensor)
- ② : Harness connector
-  : N·m (kg·m, ft·lb)



### Removal and Installation

INFOID:000000009337812

#### REMOVAL

1. Remove hoodledge cover RH. Refer to [EXT-26. "Exploded View"](#).
2. Disconnect the battery cable from the negative terminal. Refer to [PG-106. "Exploded View"](#).
3. Disconnect the battery current sensor connector.
4. Remove the battery current sensor mounting nut.
5. Remove the battery current sensor from battery cable.

#### INSTALLATION

Install in the reverse order of removal.

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

## SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:000000009239756

#### WITH DIRECT ADAPTIVE STEERING

Type		Q-85
20 hour rate capacity	[V – Ah]	12 – 62
Cold cranking current (For reference value)	[A]	600

#### WITHOUT DIRECT ADAPTIVE STEERING

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