

SECTION **PG**

**POWER SUPPLY, GROUND & CIRCUIT ELEMENTS**

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## BASIC INSPECTION

### BATTERY

#### How to Handle Battery

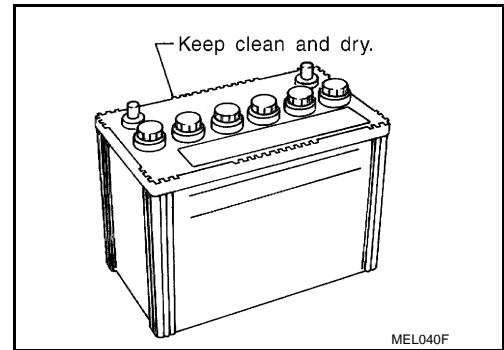
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**CAUTION:**

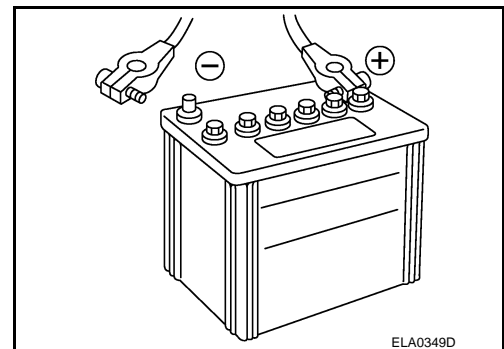
- If it becomes necessary to start the engine with a booster battery and jumper cables, use a 12-volt booster battery.
- After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.
- Never add distilled water through the hole used to check specific gravity.

#### 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 switch, turn it off.)



#### Work Flow

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

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

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

**NOTE:**

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

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

##### Check Electrolyte Level

**WARNING:**

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

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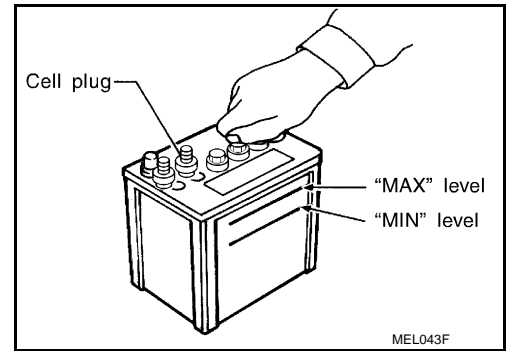
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# BATTERY

## [POWER SUPPLY & GROUND CIRCUIT]

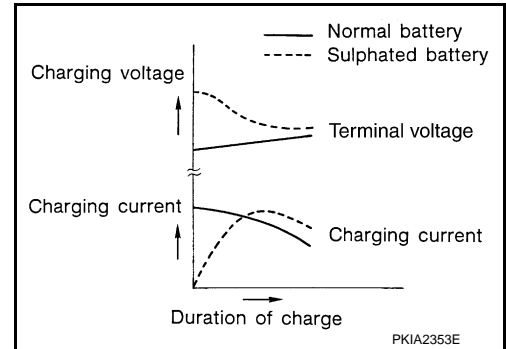
### < BASIC INSPECTION >

- 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.



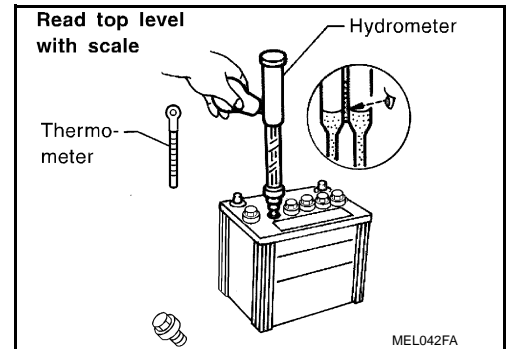
### Specific Gravity Check

#### 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

< BASIC INSPECTION >

[POWER SUPPLY & GROUND CIRCUIT]

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

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

## Charging The Battery

### CAUTION:

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

### Charging Rates (Standard Charge)

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

### Charging Rates (Quick Charge)

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

### NOTE:

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

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

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

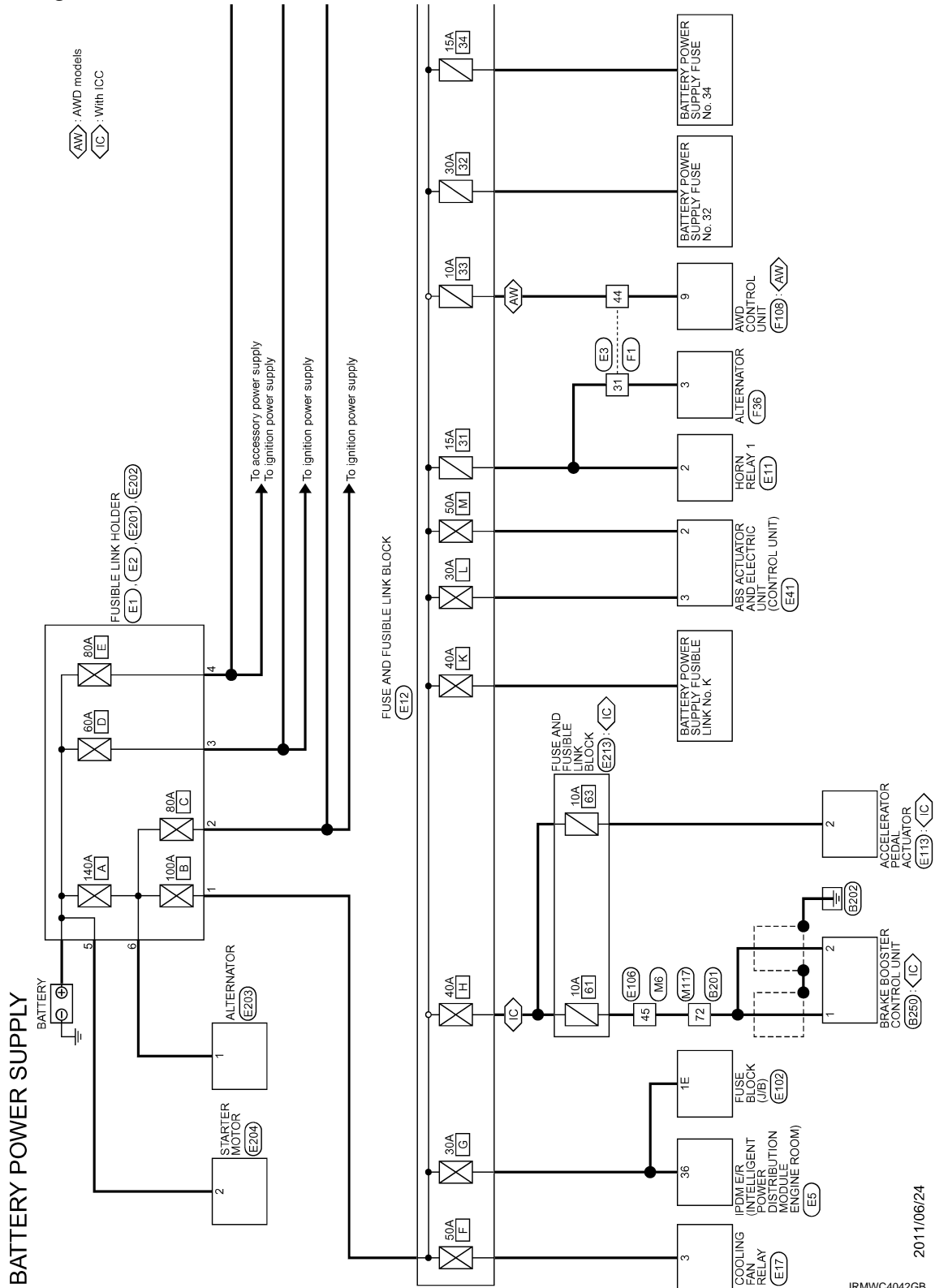
[POWER SUPPLY & GROUND CIRCUIT]

## DTC/CIRCUIT DIAGNOSIS

### POWER SUPPLY ROUTING CIRCUIT

#### Wiring Diagram - BATTERY POWER SUPPLY -

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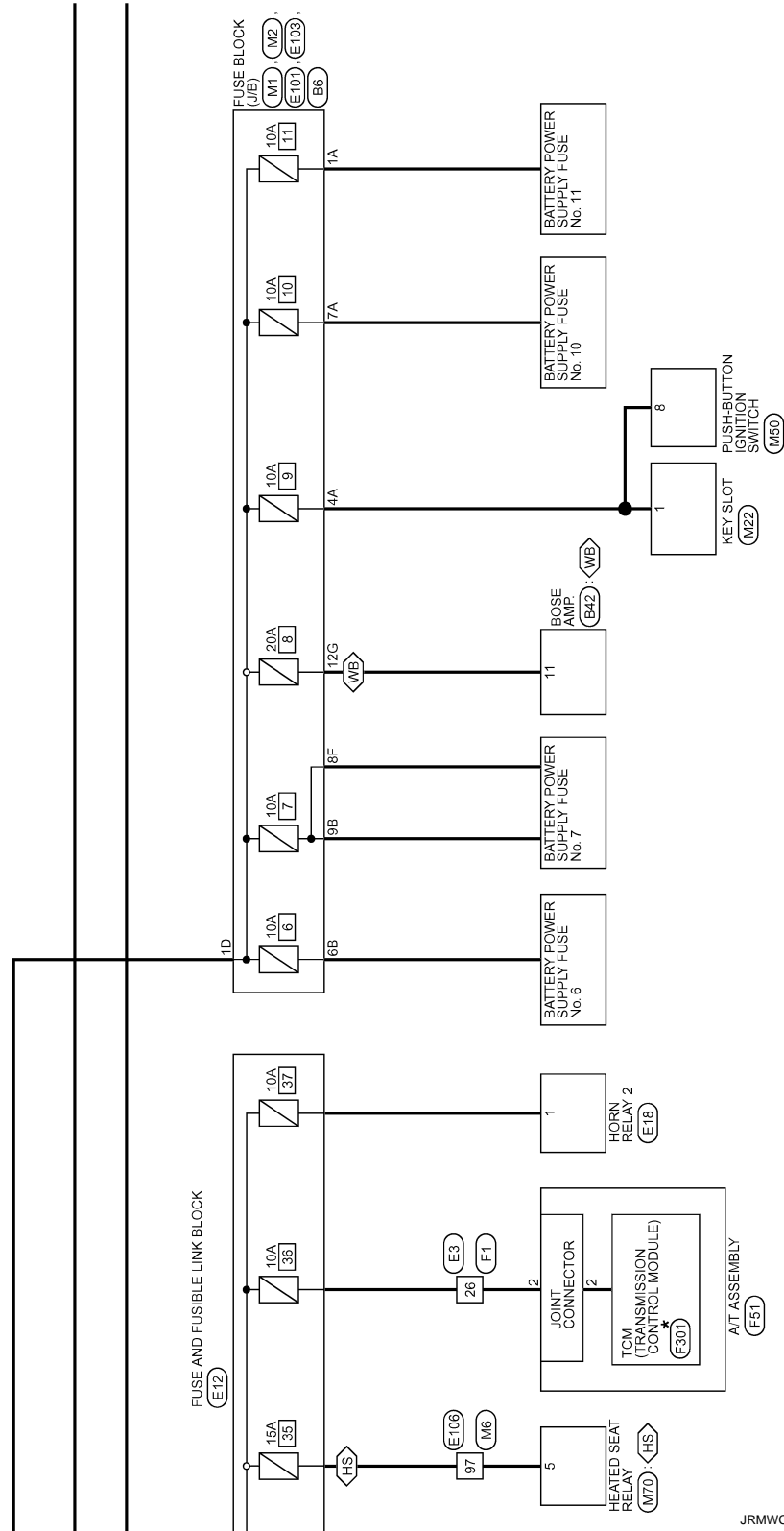


# POWER SUPPLY ROUTING CIRCUIT

## [POWER SUPPLY & GROUND CIRCUIT]

< DTC/CIRCUIT DIAGNOSIS >

◀VB▶ : With BOSE audio  
 ▶HS▶ : With heated seat



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

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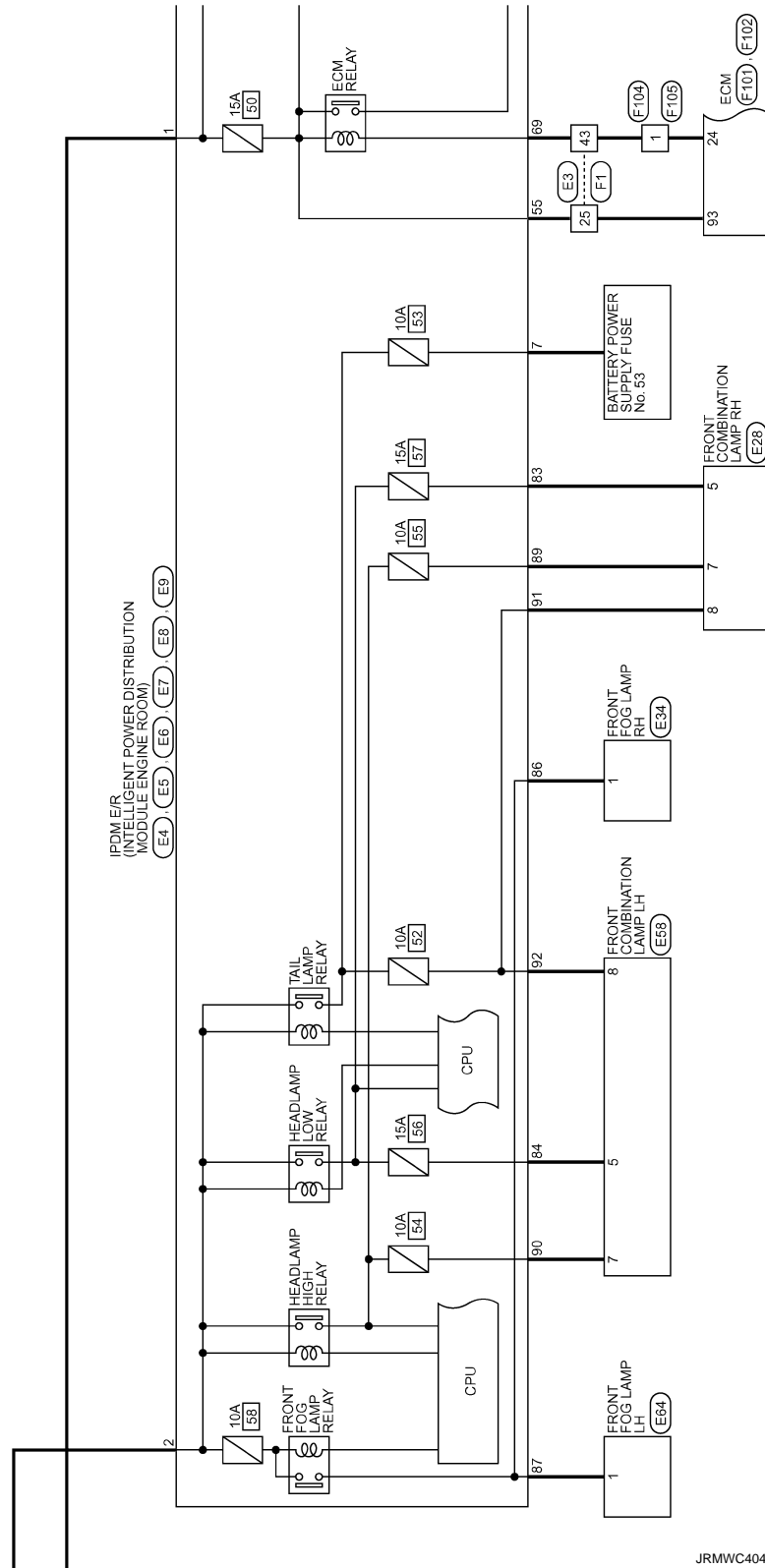
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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



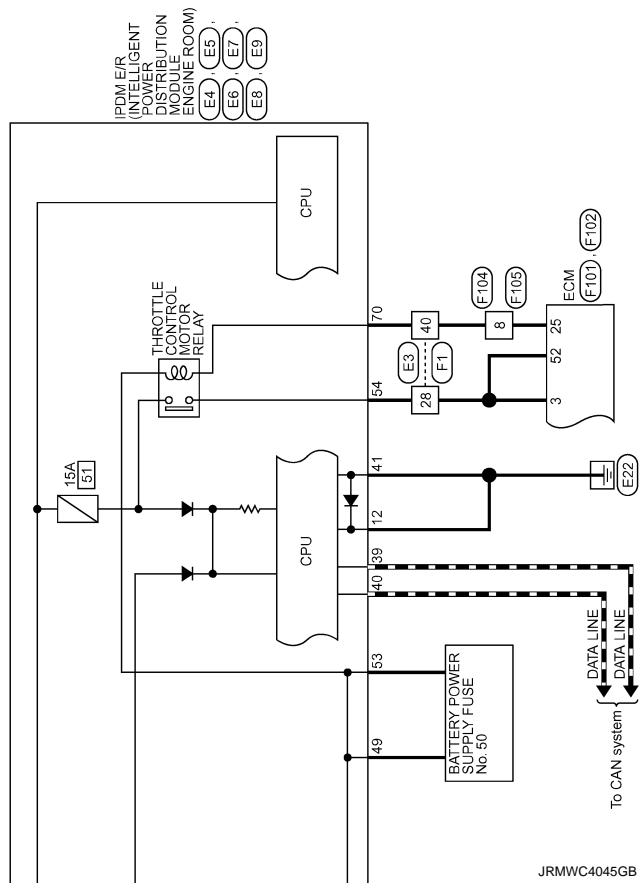
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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



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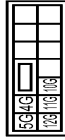
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

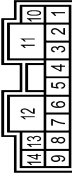
## BATTERY POWER SUPPLY

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	INS12FBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
106	W	
116	W	
126	GR	
136	R	
146	LG	

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-S42



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	SOUND SIGNAL REAR DOOR SPEAKER LH (+)
2	SR	SOUND SIGNAL REAR DOOR SPEAKER RH (-)
3	V	SOUND SIGNAL REAR DOOR SPEAKER RH (+)
4	B	SOUND SIGNAL FRONT DOOR SPEAKER LH (+)
5	P	SOUND SIGNAL FRONT DOOR SPEAKER LH (-)
6	L	SOUND SIGNAL FRONT SQUAWKER LH (+)
7	W	SOUND SIGNAL FRONT SQUAWKER LH (-)
8	LG	SOUND SIGNAL FRONT DOOR SPEAKER RH (+)
9	G	SOUND SIGNAL WOODER AND REAR SQUAWKER (+)
10	G	SOUND SIGNAL REAR DOOR SPEAKER LH (-)
11	GR	BATTERY
12	B	GROUND
13	B	SOUND SIGNAL FRONT DOOR SPEAKER RH (-)
14	R	SOUND SIGNAL WOODER AND REAR SQUAWKER (-)

Connector No.	B46
Connector Name	ROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH



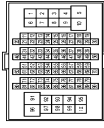
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	Y	BATTERY
3	P	IGNITION SIGNAL
4	GR	ACC.
5	BG	ILLUMINATION SIGNAL
6	SR	VEHICLE SPEED SIGNAL (SPULSE)
7	V	CONTROL SIGNAL
8	B	CONTROL SIGNAL
9	V	AV COMM (L)
10	SR	AV COMM (R)
11	SR	AV COMM (L)
12	LG	AV COMM (R)
13	LG	AUXILIARY INFARED LED (+)
14	G	AUXILIARY INFARED LED (-)
15	W	CAMERA IMAGE SIGNAL
16	W	CAMERA IMAGE SIGNAL
17	SHIELD	CAMERA IMAGE SIGNAL GND
18	Y	SIDE CAMERA RH IMAGE SIGNAL
19	Y	SIDE CAMERA RH IMAGE GND
20	G	SIDE CAMERA RH IMAGE GND
21	SHIELD	SHIELD
22	B	SIDE CAMERA RH GND
23	W	SIDE CAMERA RH COMM
24	R	SIDE CAMERA RH POWER SUPPLY
25	L	REAR CAMERA COMM
26	BR	REAR CAMERA POWER SUPPLY
27	SHIELD	SHIELD
28	R	REAR CAMERA GND
29	Y	REAR CAMERA IMAGE SIGNAL
30	W	REAR CAMERA IMAGE GND

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	TH04AW-NH



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

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH08FM-CS16-7M4



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

33	G	
34	R	
35	V	
36	G	
37	R	
38	W	
39	B	
40	SHIELD	
41	LG	
42	W	
43	W	
44	BR	
45	P	
46	L	
47	G	
48	P	
49	P	
50	L	
51	SHIELD	
52	V	
53	V	
54	V	
55	SR	
56	SR	
57	SR	
58	V	
59	V	
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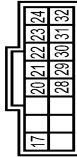
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

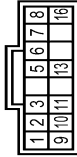
## BATTERY POWER SUPPLY

Connector No.	B226
Connector Name	REAR SEATBACK POWER RETURN CONTROL UNIT
Connector Type	YAA16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
17	Y	BAT (SYSTEM)
20	P	FLIP UP SW RH
21	GR	PRIMARY POSITION L/S (RH)
22	BR	PRIMARY POSITION L/S (RH)
23	BG	GND (RH L/S)
24	BR	SPEED SP
28	LG	FLIP UP SW LH
29	W	RETURN COMPLETE L/S (LH)
30	W	RETURN COMPLETE L/S (RH)
31	L	GND (LH L/S)
32	B	GND (DIGITAL)

Connector No.	B227
Connector Name	REAR SEATBACK POWER RETURN CONTROL UNIT
Connector Type	SEA16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	GND (RH SENSOR)
2	Y	MOTOR SENSOR (RH)
3	G	POWER SUPPLY (RH SENSOR)
5	GR	BACKWARD
6	L	FORWARD
7	SR	BACKWARD
8	R	FORWARD
9	BR	GND (LH SENSOR)
10	BR	MOTOR SENSOR (LH)

11	LG	POWER SUPPLY (LH SENSOR)
13	B	GND (POWER)
16	W	BAT (POWER)

Connector No.	B232
Connector Name	REAR COMBINATION LAMP RH
Connector Type	T1104MW-NH



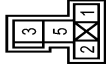
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	
2	LG	
4	B	

Connector No.	B246
Connector Name	REAR SEATBACK RELEASE RELAY (RH)
Connector Type	MS02FL-N2-LC



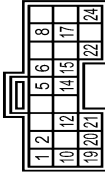
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	
2	BG	
3	W	
5	W	

Connector No.	B247
Connector Name	REAR SEATBACK RELEASE RELAY (RH)
Connector Type	MS02FL-N2-LC



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

Connector No.	B250
Connector Name	BRAKE BOOSTER CONTROL UNIT
Connector Type	TC245W



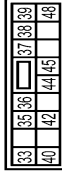
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BATTERY
2	W	BATTERY
5	P	ITS COMA-L
6	SR	RELEASE SW PWR
8	R	BRAKE PRESSURE SEN PWR
10	G	BOOSTER SOL GND
12	R	BOOSTER SOL GND
14	L	ITS COMA-H
15	LG	RELEASE SW (NC)
17	L	BRAKE PRESSURE SEN SIGNAL
19	B	GROUND
20	B	GROUND
21	Y	CHIME SIGNAL
22	P	RELEASE SW (NO)
24	BG	BRAKE PRESSURE SEN GND

Connector No.	B253
Connector Name	TRAMP COMPART VENT CONTROL VALVE
Connector Type	ED218-RS



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

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS16FW-4CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	BAT (C/B)
35	W/R	SLIDING MOTOR (FORWARD)
36	G/W	RECLINING MOTOR (FORWARD)
37	G/W	FRONT LIFTING MOTOR (FORWARD)
38	L/Y	REAR LIFTING MOTOR (UPWARD)
39	R/B	REAR LIFTING MOTOR (BACKWARD)
40	R/W	BAT (FUSE)
42	W/B	SLIDING MOTOR (BACKWARD)
44	P	RECLINING MOTOR (BACKWARD)
45	L/R	FRONT LIFTING MOTOR (UPWARD)
48	B	GND (POWER)

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

Connector No.	B457
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	HS04FW-CS



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

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24M/W-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
2	O	
3	B	SIDE CAMERA LH COM
5	Y	SIDE CAMERA LH IMAGE SIGNAL
6	R	SIDE CAMERA LH POWER SUPPLY
7	W	
10	G	
11	P	
12	O	
14	LG	
17	G	SIDE CAMERA LH IMAGE GND
19	B	SIDE CAMERA LH GND
21	GR	
22	BR	
23	V	
24	V	

Connector No.	D5
Connector Name	SEAT MEMORY SWITCH
Connector Type	A08FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	
2	BR	
3	GR	
4	B	
5	R	
6	O	
7	P	

Connector No.	D7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	
7	V	
8	B	
9	R	
10	G	
12	G	
13	GR	
14	P	
15	O	
16	O	

Connector No.	D17
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FBR



Terminal No.	Color Of Wire	Signal Name [Specification]
4	BR	
7	B	
8	B	
9	R	
10	GR	
11	LG	
13	W	
15	Y	

Connector No.	D112
Connector Name	LICENSE PLATE LAMP LH
Connector Type	TK02FBR



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

Connector No.	D117
Connector Name	LICENSE PLATE LAMP RH
Connector Type	TK02FBR



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

Connector No.	E1
Connector Name	FUSIBLE LINK HOLDER
Connector Type	UC02FBR-4C



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

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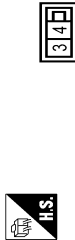
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

Connector No.	E2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	LDZFGA-MC



Terminal No.	Color Of Wire	Signal Name [Specification]
3	L	-
4	R	-

Connector No.	E3
Connector Name	WIRE TO WIRE
Connector Type	5AS5BMB-AS10-S22



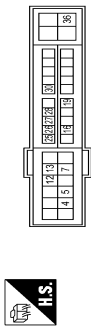
Terminal No.	Color Of Wire	Signal Name [Specification]
19	W	-
20	GR	-
21	Y	-
22	G	-
23	W	-
25	S8	-
26	R	-
28	P	-
29	L	-
30	LG	-
31	LG	-
32	R	-
33	P	-
34	W	-
35	S8	-
40	BG	-
41	G	-
42	Y	-

Connector No.	E4
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	LDZFBAMC



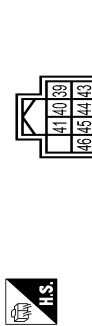
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	L	-

Connector No.	E5
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH2DFW-CS12-M44-3V



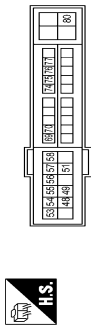
Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
7	R	-
12	B/W	-
13	Y	-
16	LG	-
19	W	-
25	G	-
26	R	-
27	BG	-
28	L	-
30	GR	-
38	G	-

Connector No.	E6
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH8DFW-NH



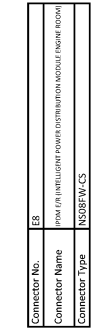
Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B/W	-
43	S8	-
44	BR	-
45	G	-
46	R	-

Connector No.	E7
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH2DFW-CS12-M44



Terminal No.	Color Of Wire	Signal Name [Specification]
48	L	-
49	BG	-
51	Y	-
53	W	-
54	P	-
55	S8	-
56	LG	-
57	G	-
58	V	-
69	BR	-
70	BG	-
74	R	-
75	S8	-

Connector No.	E8
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	NS08FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
83	BG	-
84	V	-
85	W	-
88	GR	-
89	BR	-
90	P	-

Connector No.	E9
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH16FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
91	P	-
92	BG	-
97	V	-
104	LG	-

A  
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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

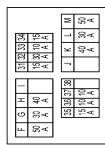
## BATTERY POWER SUPPLY

Connector No.	E11
Connector Name	HORN RELAY 1
Connector Type	Relay_24381_7590A



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

Connector No.	E12
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	24381_7590A



Terminal No.	Color Of Wire	Signal Name [Specification]
31	LG	-
32	P	-
33	BE	-
34	Y	-
35	R	-
36	R	-
37	BR	-
F	W	-
G	G	-
H	G	-
K	W	-
L	R	-
M	G	-

Connector No.	E17
Connector Name	COOLING FAN RELAY
Connector Type	24347_91900



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

Connector No.	E18
Connector Name	HORN RELAY 2
Connector Type	1M335M-RLC



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

Connector No.	E28
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-PR



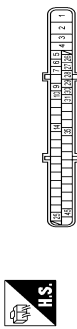
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	BY	-
4	B/W	-
5	BL	-
6	W	-
7	BR	-
8	P	-

Connector No.	E24
Connector Name	FRONT FOG LAMP RH
Connector Type	FK02FB



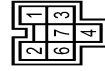
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B/W	-

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (TERMINAL UNIT)
Connector Type	BAA2ZFB-AH24-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	UBMR
3	R	UBVR
4	B	GROUND
5	LG	DS-FL
6	BS	DS-FL
7	BL	DP-RR
8	R	DP-RR
9	W	DP-RR
10	W	DP-RR
14	P	CAN-L
25	Y	BUS-L
26	LG	DP-FL
27	GR	DS-RL
28	G	UZ
29	LG	DS-RR
30	SR	BLS
31	R	VDC OFF SW
35	L	CAN-H
45	B	BUS-H

Connector No.	E50
Connector Name	LCC BRAKE HOLD RELAY
Connector Type	1M06FGH-FLUS



JRMWG8129GB

# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	B	-
3	P	-
4	SB	-
6	P	-
7	R	-

Connector No.	E57
Connector Name	INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM)
Connector Type	RK03FBR



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

Connector No.	E68
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	-
3	B/Y	-
4	B/W	-
5	V	-
6	G	-
7	P	-
8	BG	-

Connector No.	E64
Connector Name	FRONT FOG LAMP LH
Connector Type	FH20ZFB



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

Connector No.	E61
Connector Name	FUSE BLOCK (J/B)
Connector Type	LD1FW-ANC



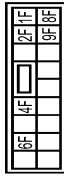
Terminal No.	1D	R	Signal Name [Specification]
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Connector No.	E102
Connector Name	FUSE BLOCK (J/B)
Connector Type	MD2FB-LC



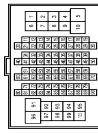
Terminal No.	Color Of Wire	Signal Name [Specification]
1E	G	-

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1F	SB	-
2F	W	-
3F	G	-
4E	BL	-
4F	BL	-
3E	R	-
3F	R	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	B	-
4	GR	-
5	GR	-
8	Y	-
9	BR	-
10	BG	-
11	SB	-

12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	V	-
20	BG	-
21	L	-
22	V	-
23	G	-
24	P	-
25	Y	-
26	V	-
27	W	-
28	G	-
31	BG	-
32	W	-
33	B	-
34	R	-
35	G	-
36	SHIELD	-
37	SHIELD	-
38	BR	-
39	BG	-
41	W	-
42	G	-
43	BR	-
45	W	-
49	L	-
50	P	-
51	L	-
54	BG	-
57	BR	-
59	W	-
60	LG	-
61	G	-
62	SB	-
63	W	-
64	B	-
65	G	-
66	R	-
67	SHIELD	-
68	Y	-
69	LG	-
70	W	-
71	R	-
72	Y	-
73	B	-
74	BR	-

[W/B] [G]

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

74	L	- [Without LCC]
75	G	- [With LCC]
76	W	- [Without LCC]
77	Y	- [With LCC]
78	P	- [Without LCC]
79	R	- [With LCC]
80	BR	- [Without LCC]
81	L	- [With LCC]
82	Y	- [Without LCC]
83	LG	- [With LCC]
84	G	-
85	L	-
86	P	-
87	LG	-
88	LG	-
89	SHIELD	-
90	Y	-
91	Y	-
92	Y	-
93	Y	-
94	LG	-
95	LG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

Connector No.	E110
Connector Name	STOP LAMP SWITCH
Connector Type	MM4FW-LC



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

4	SR	-
---	----	---



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	IGNITION
2	BG	BATTERY
3	BY/W	TS COMB-L
5	L	ITS COMB-H

Connector No.	E201
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24340_79908



Terminal No.	Color Of Wire	Signal Name [Specification]
5	Y	-

Connector No.	E202
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24340_79905



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

Connector No.	E203
Connector Name	ALTERNATOR
Connector Type	24340_6545



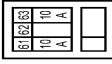
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-

Connector No.	E204
Connector Name	STARTER MOTOR
Connector Type	24348_51651



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

Connector No.	E213
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	24380_CF000



Terminal No.	Color Of Wire	Signal Name [Specification]
61	W	-
63	RG	-

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	5AA36FB-RS1D-S2Z



Terminal No.	Color Of Wire	Signal Name [Specification]
19	W	-
20	GR	-
21	P	-
22	G	-
23	W	-
25	P	-
26	BR	-
28	R	-
29	L	-
30	Y	-
31	Y	-
32	LG	-
33	GR	-



# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

34	G	-	-
35	Y	-	-
40	BG	-	-
41	SB	-	-
42	P	-	-
43	BR	-	-
44	BG	-	-

Connector No.	F7
Connector Name	(W/P) MASTER PULSE VOLUME CONTROL SIGNALS VALVE
Connector Type	ED21L-RS-LGY



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

Connector No.	F8
Connector Name	CONDENSER
Connector Type	M02FW-LC



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

Connector No.	F11
Connector Name	(W/P) POWER TRANSDUCER
Connector Type	ED31GV-RS



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

Connector No.	F12
Connector Name	(W/P) POWER TRANSDUCER
Connector Type	ED31GV-RS



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

Connector No.	F13
Connector Name	(W/P) POWER TRANSDUCER
Connector Type	ED31GV-RS



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

Connector No.	F14
Connector Name	(W/P) POWER TRANSDUCER
Connector Type	ED31GV-RS



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

Connector No.	F15
Connector Name	(W/P) POWER TRANSDUCER
Connector Type	ED31GV-RS



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

Connector No.	F16
Connector Name	(W/P) POWER TRANSDUCER
Connector Type	ED31GV-RS



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

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PG

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

Connector No.	F28
Connector Name	HYPER VALVE TUNING CONTROL SOLENOID (BANK 1)
Connector Type	ED21G-RS-LGF



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

Connector No.	F29
Connector Name	HYPER VALVE TUNING CONTROL SOLENOID (BANK 2)
Connector Type	ED21G-RS-LGF



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

Connector No.	F31
Connector Name	MASS AIR FLOW SENSOR (BANK 1)
Connector Type	RH06FB



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

Connector No.	F32
Connector Name	EXHAUST VALVE TUNING CONTROL (MAINE RETAINER (BANK 1))
Connector Type	HS04E-B



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

Connector No.	F36
Connector Name	ALTERNATOR
Connector Type	HS03FB



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	L
3	V	S
4	P	C

Connector No.	F41
Connector Name	EXHAUST VALVE TUNING CONTROL (MAINE RETAINER (BANK 2))
Connector Type	HS04E-B



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

Connector No.	F42
Connector Name	MASS AIR FLOW SENSOR (BANK 2)
Connector Type	RH06FB



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

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RK10FG-06Y



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	-
2	BR	-
3	L	-
4	V	-
5	B	-
6	Y	-
7	R	-
8	P	-
9	GR	-
10	B	-

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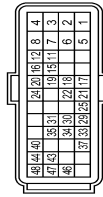
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

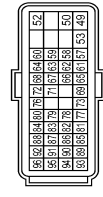
## BATTERY POWER SUPPLY

Connector No.	F101
Connector Name	ECM
Connector Type	RH4DFB-R28-L-1H-Z



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	A/F SEN 1 HEATER B1
2	G	THROTTLE CONTROL MOTOR B1 (OPEN)
3	R	THROTTLE CONTROL MOTOR RELAY POWER SUPPLY B1
4	BR	THROTTLE CONTROL MOTOR B1 (CLOSE)
5	GR	A/F SEN 1 HEATER B2
6	SR	EVT CONTROL MAGNET REF PARDER B1
7	B	EVT CONTROL MAGNET REF PARDER B2
8	R	ECM GROUND
9	GR	IGNITION SIGNAL #6
10	Y	IGNITION SIGNAL #8
11	V	IGNITION SIGNAL #6
12	G	IGNITION SIGNAL #2
13	V	HEATED OXYGEN SEN 2 HEATER B1
14	W	IVT CONTROL SOLENOID VALVE B1
15	W	IGNITION SIGNAL #6
16	Y	IGNITION SIGNAL #1
17	Y	EVP GAMMA PULSE VOLUME CONTROL SOLENOID VALVE
18	Y	FUEL PUMP RELAY
19	LG	ECM RELAY (SELF SHUT - OFF)
20	BR	THROTTLE CONTROL MOTOR RELAY
21	BG	IVT CONTROL SOLENOID VALVE B2
22	G	TP SEN 1-B1
23	R	TP SEN 1-B2
24	R	TP SEN 2-B1
25	R	TP SEN 2-B2
26	L	POS SEN
27	LG	SENSOR GROUND (TP SEN B1)
28	G	SENSOR POWER SUPPLY (TP SEN B2)
29	B	SENSOR POWER SUPPLY (TP SEN B1)
30	R	SENSOR GROUND (POS SEN)
31	Y	SENSOR GROUND (POS SEN)
32	B	SENSOR GROUND (TP SEN B2)

Connector No.	F102
Connector Name	ECM
Connector Type	RH4DFB-R28-L-1H-Z



Terminal No.	Color Of Wire	Signal Name [Specification]
49	L	THROTTLE CONTROL MOTOR B2 (CLOSE)
50	V	THROTTLE CONTROL MOTOR B2 (OPEN)
51	R	THROTTLE CONTROL MOTOR RELAY POWER SUPPLY B2
52	P	IGNITION SWITCH
53	L	A/F SEN 1-B1
54	GR	EVT CONTROL POSITION SEN B1
55	BG	PHASE SEN B1
56	R	PHASE SEN 2-B1
57	R	A/F SEN 1-B1
58	G	EVT CONTROL POSITION SEN B2
59	S	PHASE SEN B2
60	W	A/F SEN 1-B2
61	V	HEATED OXYGEN SEN 2 HEATER B1
62	V	A/F SEN 1-B2
63	V	HEATED OXYGEN SEN 2 HEATER B2
64	V	A/F SEN 1-B2
65	V	A/F SEN 1-B2
66	LG	IAT SEN B1
67	P	SENSOR GROUND (MAF SEN B1, IAT SEN B1)
68	LG	KNOCK SEN B2
69	W	ECT SEN
70	Y	SHIELD
71	Y	KNOCK SEN B1
72	W	HEATED OXYGEN SEN 2-B1
73	W	MAF SEN B1
74	W	EOT SEN
75	W	HEATED OXYGEN SEN 2-B2
76	W	FUEL INJECTOR #6
77	W	FUEL INJECTOR #5
78	W	FUEL INJECTOR #4
79	GR	FUEL INJECTOR #3
80	BG	FUEL INJECTOR #2
81	R	IAT SEN B2
82	V	SENSOR GROUND (HEATED OXYGEN 2, ECT SEN, EOT SEN)
83	B	FUEL INJECTOR #2
84	B	FUEL INJECTOR #5
85	W	FUEL INJECTOR #5
86	W	PSP SEN
87	Y	FUEL INJECTOR #6
88	LG	FUEL INJECTOR #6
89	GR	FUEL INJECTOR #4
90	BG	FUEL INJECTOR #4
91	SR	BATTERY CURRENT SEN

92	P	SENSOR GROUND (PHASE SEN B2)
93	P	POWER SUPPLY FOR ECM (BACK-UP)
94	LG	SENSOR GROUND (MAF SEN B2)
95	G	SENSOR GROUND (BATTERY CURRENT SEN)
96	B	SENSOR GROUND (PHASE SEN B1, PSP SEN)

Connector No.	F104
Connector Name	WIRE TO WIRE
Connector Type	TH88FW-AH



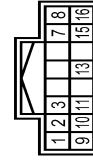
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	AWD SOL-C
2	Y	AWD SOL-C
3	W	OIL TEMP-
4	G	IGN
5	G	IGN
6	BG	AWD SOL-BAT
7	B	GROUND
8	LG	OIL TEMP+
9	Y	BATTERY
10	P	CAN L

Connector No.	F105
Connector Name	WIRE TO WIRE
Connector Type	TH88MW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	WIGN
2	-	BATT
3	-	CAN-H
4	-	K-LINE
5	-	GROUND
6	-	WIGN
7	LG	

Connector No.	F108
Connector Name	AWD CONTROL UNIT
Connector Type	TH16FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	AWD SOL-C
2	Y	AWD SOL-C
3	W	OIL TEMP-
4	G	IGN
5	G	IGN
6	BG	AWD SOL-BAT
7	B	GROUND
8	LG	OIL TEMP+
9	Y	BATTERY
10	P	CAN L

Connector No.	F301
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SPT-DFG



Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	WIGN
2	-	BATT
3	-	CAN-H
4	-	K-LINE
5	-	GROUND
6	-	WIGN

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# POWER SUPPLY ROUTING CIRCUIT

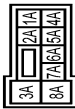
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[POWER SUPPLY & GROUND CIRCUIT]

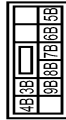
## BATTERY POWER SUPPLY

7	-	REV LAMP RLY
8	-	CAN L
9	-	START RLY
10	-	GROUND

Connector No.	M1
Connector Name	FUSE BLOCK (I/B)
Connector Type	NS106FW-M2



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



Connector No.	M2
Connector Name	FUSE BLOCK (I/B)
Connector Type	NS106FW-ES

Terminal No.	Color Of Wire	Signal Name [Specification]
38	P	-
39	G	-
40	BG	-
41	P	-
42	R	-

39	BR	-	-	-
41	W	-	-	-
42	BG	-	-	-
43	BG	-	-	-
45	W	-	-	-
49	L	-	-	-
50	P	-	-	-
51	BR	-	-	-
54	Y	-	-	-
57	G	-	-	-
59	W	-	-	-
60	L	-	-	-
61	G	-	-	-
62	SR	-	-	-
63	G	-	-	-
64	B	-	-	-
65	W	-	-	-
66	R	-	-	-
67	SHIELD	-	-	-
68	GR	-	-	-
69	GR	-	-	-
71	LG	-	-	-
72	Y	-	-	-
73	SR	-	-	-
74	BR	-	-	-
74	L	-	-	-
74	L	-	-	-
75	G	-	-	-
76	GR	-	-	-
76	W	-	-	-
77	P	-	-	-
77	R	-	-	-
78	L	-	-	-
78	R	-	-	-
79	W	-	-	-
79	Y	-	-	-
80	SR	-	-	-
81	SR	-	-	-
82	SR	-	-	-
83	V	-	-	-
84	G	-	-	-
85	L	-	-	-
86	P	-	-	-
87	W	-	-	-
89	GR	-	-	-
90	SHIELD	-	-	-
91	W	-	-	-
92	W	-	-	-
93	SHIELD	-	-	-
94	BR	-	-	-
94	P	-	-	-

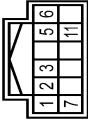
95	GR	-	-	-
96	W	-	-	-
97	L	-	-	-
98	SHIELD	-	-	-
99	V	-	-	-
100	SR	-	-	-

Connector No.	M19
Connector Name	VDC OFF SWITCH
Connector Type	TK06FGY



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

Connector No.	M22
Connector Name	KEY SLOT
Connector Type	TH12FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	BAT
2	GR	CLOCK
3	W	DATA
5	Y	ILL BAT
6	LG	ILL
8	GR	GROUPS
11	BR	KEY SWITCH SIGNAL

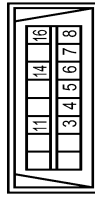
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	V	-
8	G	-
11	SB	-
14	Y	-
15	Y	-

Connector No.	M29
Connector Name	WARNING SYSTEMS SWITCH
Connector Type	TKGBF5Y



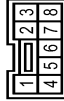
Terminal No.	Color Of Wire	Signal Name [Specification]
2	SB	-
3	W	-
4	B	-
5	R	-
6	B	-
7	V	-

Connector No.	M35
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TKGBFY-EX-1V



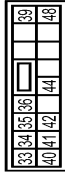
Terminal No.	Color Of Wire	Signal Name [Specification]
23	R	-
28	Y	-
29	Y	-
30	Y	-

Connector No.	M30
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TKGBFR



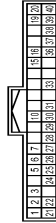
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	W	-
3	W	-
4	BR	-
5	GR	-
6	Y	-
7	V	-
8	P	-

Connector No.	M32
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	R	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
39	SB	BAT (C/B)
40	B	GRD(SIGNAL)
41	B	GRD(SIGNAL)
42	SG	TILT MOTOR (DOWNWARD)
44	G	TELESCOPIC MOTOR (REARWARD)
48	B	GRD(OVER)

Connector No.	M33
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	P	ALTERNATOR SIGNAL
7	BR	AIR BAG SIGNAL
10	G	SECURITY SIGNAL
15	B	GROUND
16	B	GROUND
18	B	METER CONTROL SWITCH GROUND
19	B	TILT GND

Terminal No.	Color Of Wire	Signal Name [Specification]
20	R	ILL
21	IG	IGNITION SIGNAL
22	B	GROUND
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	COMMUNICATION SIGNAL (AMP->LCD)
26	Y	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL SWITCH SIGNAL
33	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP AIR RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BS	ILLUMINATION CONTROL SWITCH SIGNAL (+)

Connector No.	M32
Connector Name	CIRCUIT BREAKER
Connector Type	MG2FW-P-C



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

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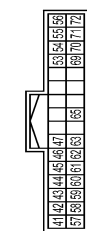
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



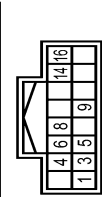
Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	P	WINDUP SENSOR SIGNAL
48	G	EVAPORATOR MOTOR POWER SUPPLY
49	G	IGNITION POWER SUPPLY
50	Y	BATTERY GROUND
51	B	CAN-H
52	L	W
53	W	BRAKE FLUID LEVEL SWITCH SIGNAL
54	BR	FUEL LEVEL SENSOR GROUND
55	GR	INTAKE SENSOR GROUND
56	L	IN-VEHICLE SENSOR GROUND
57	BR	AMBIENT SENSOR GROUND
58	S8	SUNLOAD SENSOR GROUND
59	R	WINDUP SENSOR GROUND
60	BG	EVAPORATOR MOTOR GROUND
61	B	A/C CLAS SIGNAL
62	L	EACH DOOR MOTOR POWER SUPPLY
63	R	GROUND
64	P	CAN-L

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02EL-M2-LC



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

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	V	ACC
3	R	ILL
4	R	ILL CONT
5	Y	ILL
6	S8	AV COMM (H)
7	LG	AV COMM (L)
8	LG	SW GND
9	B	DISK EFFECT SIGNAL
10	Y	HAZARD ON

Connector No.	M74
Connector Name	ICLOCK
Connector Type	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	ILLUMINATION (-)
2	R	ILLUMINATION (+)
3	B	GROUND
4	Y	BAT

Connector No.	M82
Connector Name	GLOVE BOX LAMP
Connector Type	AD2FW



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

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FG-R2R-LH-Z



Terminal No.	Color Of Wire	Signal Name [Specification]
57	R	APP SEN 1
58	P	APP SEN 2 (WITHOUT LCC)
59	Y	APP SEN 2 (WITH LCC)
60	G	SENSOR POWER SUPPLY (APP SEN 1) (WITHOUT LCC)
61	L	SENSOR POWER SUPPLY (APP SEN 1) (WITH LCC)
62	L	SENSOR GROUND (APP SEN 1)
63	B	EVAP COOLING SYSTEM PRESS SEN
64	G	SENSOR POWER SUPPLY (APP SEN 2) (WITHOUT LCC)
65	L	SENSOR POWER SUPPLY (APP SEN 2) (WITH LCC)
66	L	SENSOR GROUND (APP SEN 2) (WITHOUT LCC)
67	GR	SENSOR GROUND (APP SEN 2) (WITH LCC)
68	L	REFRIGERANT PRESS SEN
69	W	FUEL TANK TEMP SEN
70	BR	SENSOR POWER SUPPLY (EVAP CONTROL SYSTEM PRESS SEN)
71	Y	SENSOR GROUND (ASC/D STEERING SWITCH)
72	G	PNP Signal
73	R	ENGINE SPEED OUTPUT SIGNAL
74	BG	SENSOR POWER SUPPLY (REFRIGERANT PRESS SEN)
75	V	SENSOR GROUND (EVAP CONTROL SYSTEM PRESS SEN)
76	P	CAN COMMUNICATION LINE
77	L	SENSOR GROUND (REFRIGERANT PRESS SEN)
78	V	DATA LINK CONNECTOR
79	LG	EVAP CANISTER VENT CONTROL VALVE
80	P	STOP LAMP SWITCH
81	B	ECM GROUND
82	B	ECM GROUND
83	R	POWER SUPPLY FOR ECM
84	BR	ASC/D BRAKE SWITCH
85	B	ECM GROUND
86	B	ECM GROUND

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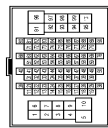
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	GR	-
4	SB	-
7	W	-
10	W	-
13	SB	-
15	L	-
19	BR	-
26	BR	-
27	LG	-
28	Y	-
29	Y	-
30	V	-
31	R	-
32	BR	-
33	G	-
51	R	-
52	L	-
35	W	-
36	B	-
57	R	-
58	G	-
59	SHIELD	-
60	V	-
61	LG	-
62	BR	-
63	L	-
64	LG	-
65	B	-
66	R	-
67	W	-
68	SHIELD	-
69	V	-
70	W	-
71	SB	-

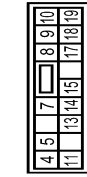
Terminal No.	Color Of Wire	Signal Name [Specification]
72	W	-
73	G	-
75	W	-
80	V	-
81	SB	-
82	V	-
83	P	-
84	R	-
85	L	-
86	BG	-
87	L	-
88	P	-
91	V	-
92	G	-
94	G	-
95	W	-
96	G	-
97	Y	-
98	BR	-
99	P	-
100	V	-
101	L	-
102	SB	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	W	POWER WINDOW POWER SUPPLY(BAT)
3	Y	POWER WINDOW POWER SUPPLY(BAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	L	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP CONT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID LOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (F/R)
12	R	IGNITION
13	B	PUSH-BUTTON LOCK SW/L L GND
14	Y	ACC IN
15	W	TURN SIGNAL RL (FRONT)
17	W	TURN SIGNAL LL (FRONT)
18	BG	TURN SIGNAL LL (FRONT)
19	V	INT ROOM LAMP CONT

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
113	P	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	REF SCL SW
123	W	IGN I/FB
124	LG	PASSENGER DOOR SW

132	BR	POWER WINDOW SW COMM
133	W	PUSH-BUTTON IGNITION SW/LL POWER
134	GR	LOCK IND
137	BG	RECEIVER/SENSOR GND
138	Y	RECEIVER/SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	G	SECURITY IND LAMP CONT
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	LG	DRIVER DOOR SW
151	G	REAR WINDOW DEFOSGER RELAY CONT

Connector No.	M132
Connector Name	FRONT POWER SOCKET
Connector Type	NS03FW-CS



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

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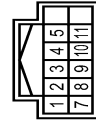
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY POWER SUPPLY

Connector No.	M137
Connector Name	A/T SHIFT SELECTOR
Connector Type	TH12FW-NH



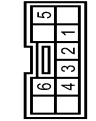
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	V	-
3	L	-
4	B	-
5	G	-
6	SB	-
7	GR	-
8	R	-
9	GR	-
10	GR	-
11	R	-

Connector No.	M174
Connector Name	POWER RETURN SWITCH (LH)
Connector Type	TK04FW



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

Connector No.	M177
Connector Name	HEATED SEAT SWITCH (DRIVER SIDE)
Connector Type	TK10FW



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

Connector No.	M178
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08BR



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

Connector No.	M175
Connector Name	POWER RETURN SWITCH (RH)
Connector Type	TK04FW-B



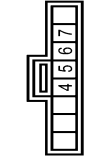
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	L	-
3	G	-
4	V	-

Connector No.	M176
Connector Name	SNOW MODE SWITCH
Connector Type	TK08FW



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

Connector No.	M187
Connector Name	ISA OFF SWITCH
Connector Type	TK08FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
4	Y	-
5	BR	-
6	B	-
7	SB	-

Connector No.	M201
Connector Name	AV CONTROL UNIT
Connector Type	TH18FM-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	SOUND SIGNAL FRONT LH (-)
3	R	SOUND SIGNAL FRONT LH (-)
4	LG	SOUND SIGNAL REAR DOOR SPEAKER LH (-)
5	L	SOUND SIGNAL REAR DOOR SPEAKER LH (-)
6	P	SOUND SIGNAL REAR DOOR SPEAKER LH (-)
7	V	STRG SW A
9	R	ACC
11	L	ILLUMINATION SIGNAL
12	W	SOUND SIGNAL FRONT RH (-)
13	L	SOUND SIGNAL FRONT RH (-)
14	P	SOUND SIGNAL REAR DOOR SPEAKER RH (-)
15	B	SOUND SIGNAL REAR DOOR SPEAKER RH (-)
16	L	STRG SW B
18	L	IGNITER
19	B	GROUND
20	B	GROUND

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# POWER SUPPLY ROUTING CIRCUIT

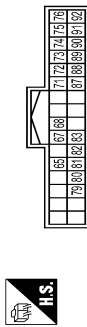
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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## BATTERY POWER SUPPLY

Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	1H32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
65	V	PARKING BRAKE SIGNAL
67	G	COMPOSITE IMAGE SIGNAL GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE SHIELD
72	R	MICROPHONE VCC
73	R	COMM (CONT-SDSP)
74	L	CAN-L
75	L	AV COMM (L)
76	R	AV COMM (R)
78	R	ILLUMINATION
80	G	IGNITION SIGNAL
81	US	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (8-PULSE)
83	SHIELD	SHIELD
87	G	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	G	COMM (DISP->CONT)
90	L	CAN-H
91	S8	AV COMM (H)
92	S8	AV COMM (H)

Connector No.	183
Connector Name	AUTO AHT-DAZLING INSIDE MIRROR
Connector Type	1H10FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
6	BR	IGN
8	B	GROUND
10	G	BAT

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# POWER SUPPLY ROUTING CIRCUIT

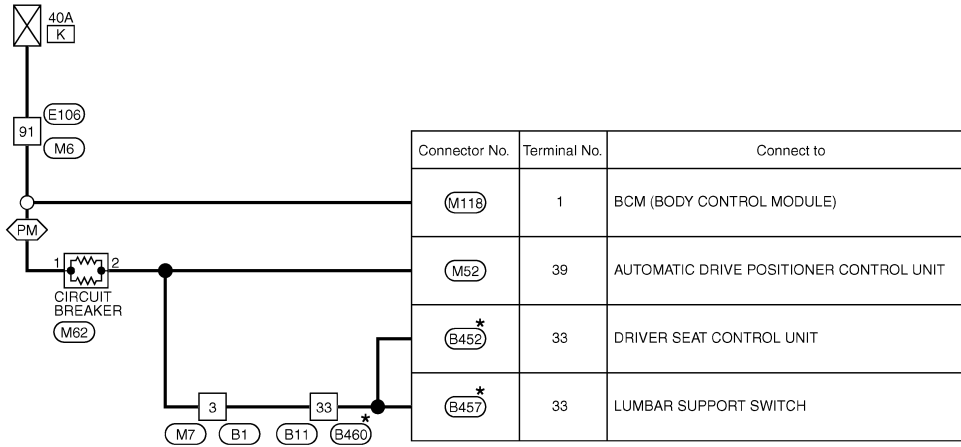
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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

INFOID:000000007458743

 : With automatic drive positioner



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

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# POWER SUPPLY ROUTING CIRCUIT



< DTC/CIRCUIT DIAGNOSIS >

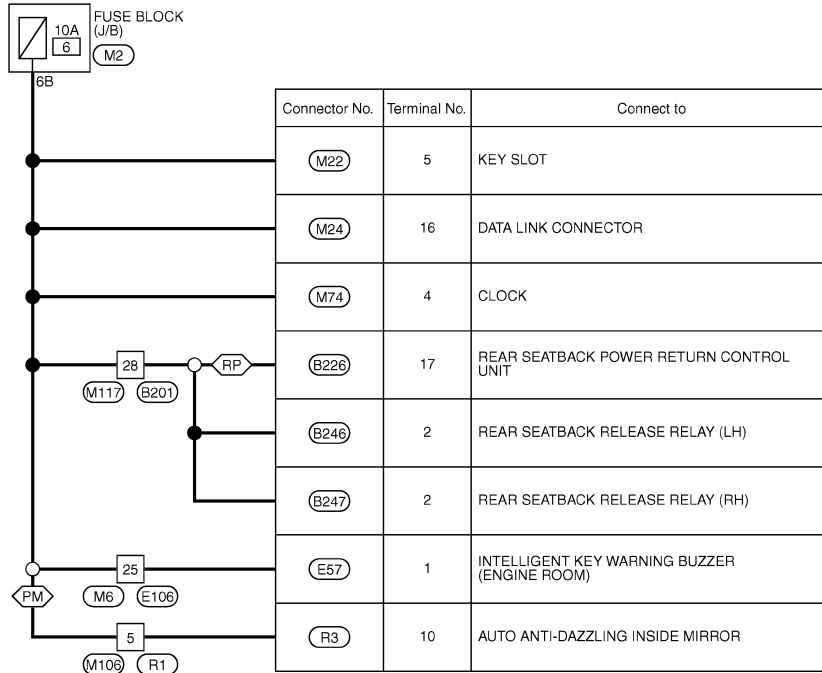
[POWER SUPPLY & GROUND CIRCUIT]

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

INFOID:000000007458744

### BATTERY POWER SUPPLY FUSE No. 6

 : With automatic drive positioner  
 : With rear seatback power return system



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2009/07/16

JCMWA4868GB

# POWER SUPPLY ROUTING CIRCUIT


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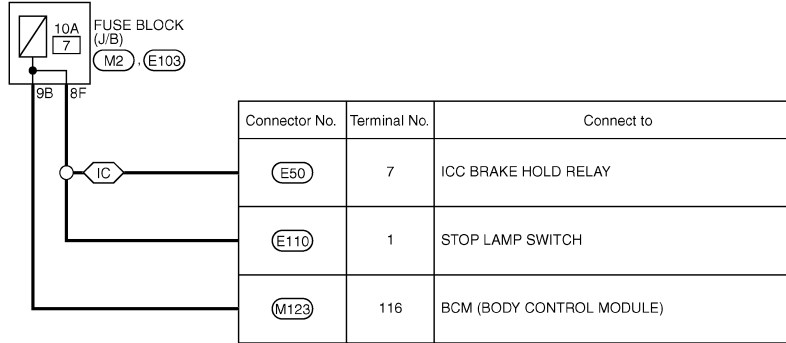
[POWER SUPPLY & GROUND CIRCUIT]

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

INFOID:000000007458745

### BATTERY POWER SUPPLY FUSE No. 7

 : With ICC



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
# POWER SUPPLY ROUTING CIRCUIT

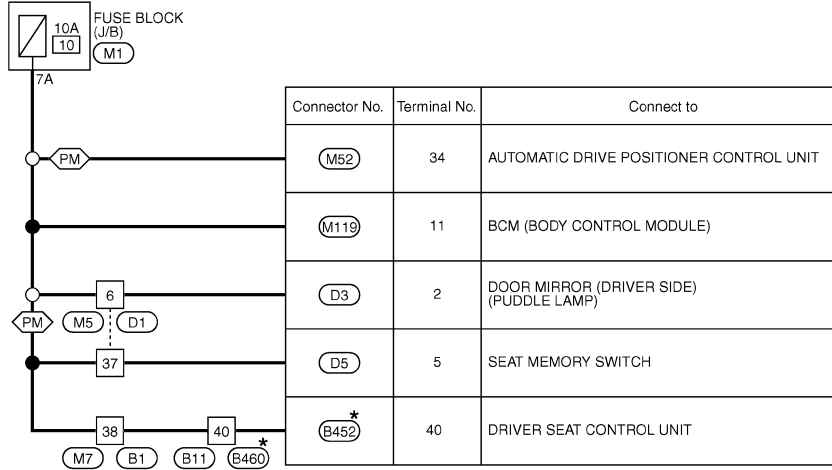
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 10 - BATTERY POWER SUPPLY FUSE No. 10

INFOID:000000007458746

 : With automatic drive positioner



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

2008/08/28

JCMWA3164GB

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# POWER SUPPLY ROUTING CIRCUIT


< DTC/CIRCUIT DIAGNOSIS >

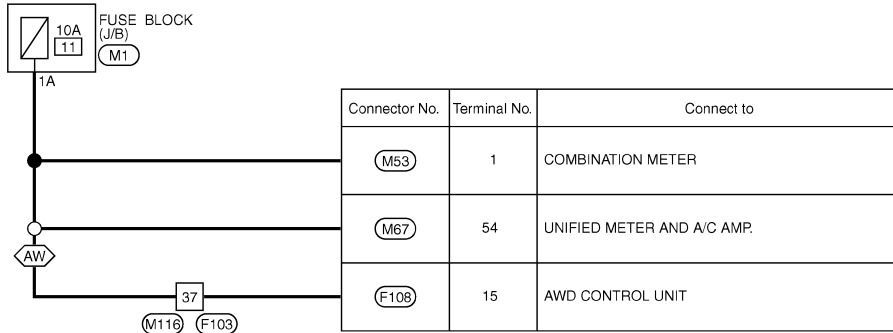
[POWER SUPPLY & GROUND CIRCUIT]

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 11 -

INFOID:000000007458747

### BATTERY POWER SUPPLY FUSE No. 11

 : AWD models



2010/09/21

JCMWA6223GB

# POWER SUPPLY ROUTING CIRCUIT


< DTC/CIRCUIT DIAGNOSIS >

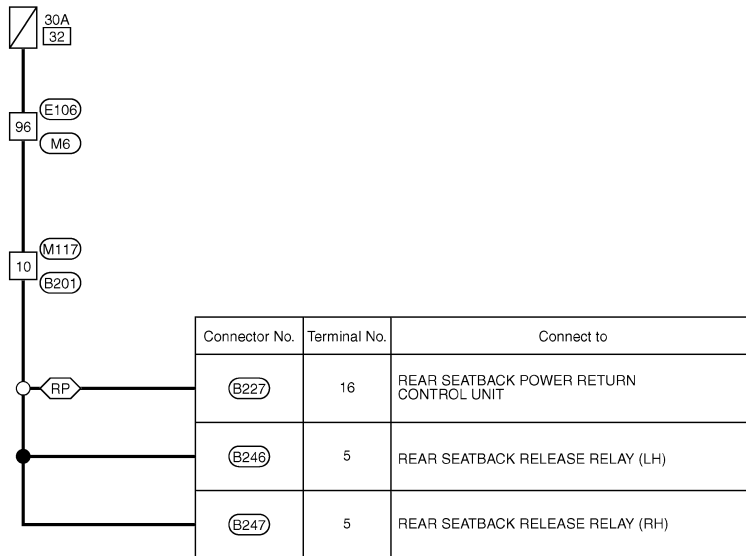
[POWER SUPPLY & GROUND CIRCUIT]

## Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 32 -

INFOID:000000007458748

### BATTERY POWER SUPPLY FUSE No. 32

: With rear seatback power return system



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2008/08/28

JCMWA3167GB

# POWER SUPPLY ROUTING CIRCUIT

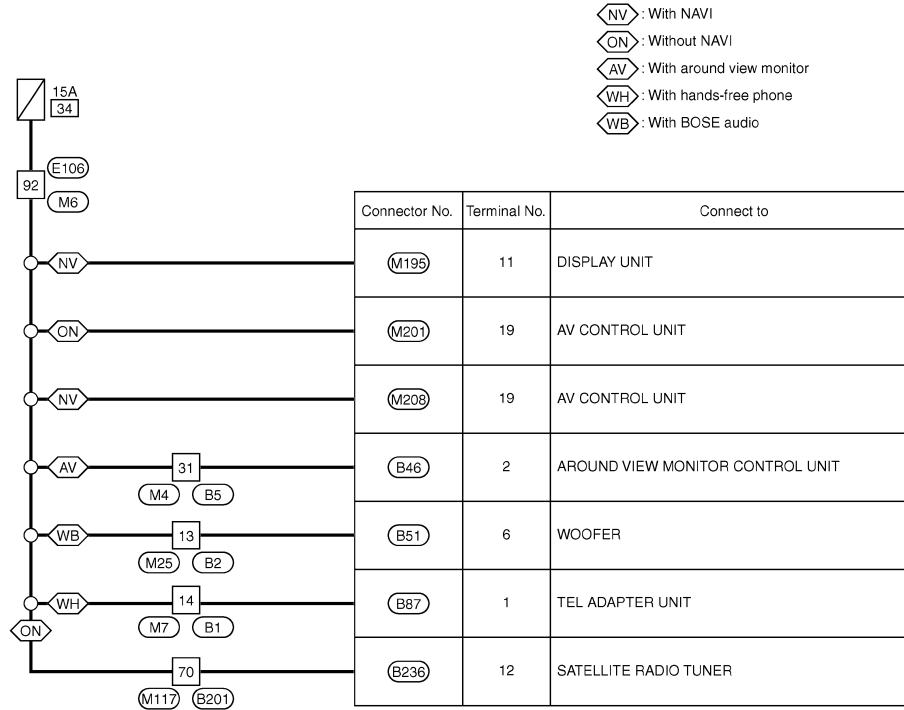
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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

INFOID:000000007458749

### BATTERY POWER SUPPLY FUSE No. 34



2009/07/16

JCMWA4881GB



# POWER SUPPLY ROUTING CIRCUIT

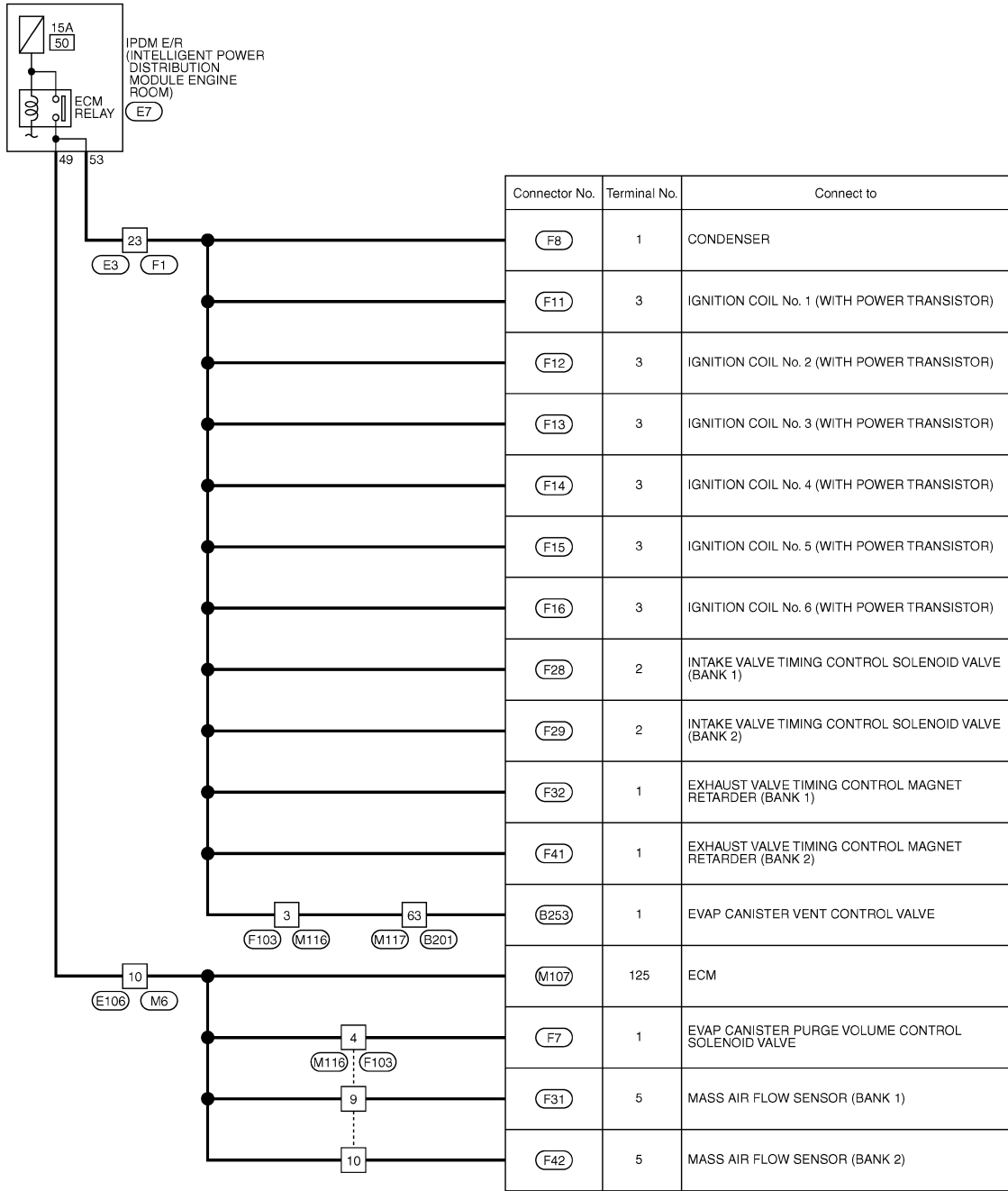
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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

INFOID:000000007458750

### BATTERY POWER SUPPLY FUSE No. 50



2009/07/16

JCMWA4887GB

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# POWER SUPPLY ROUTING CIRCUIT

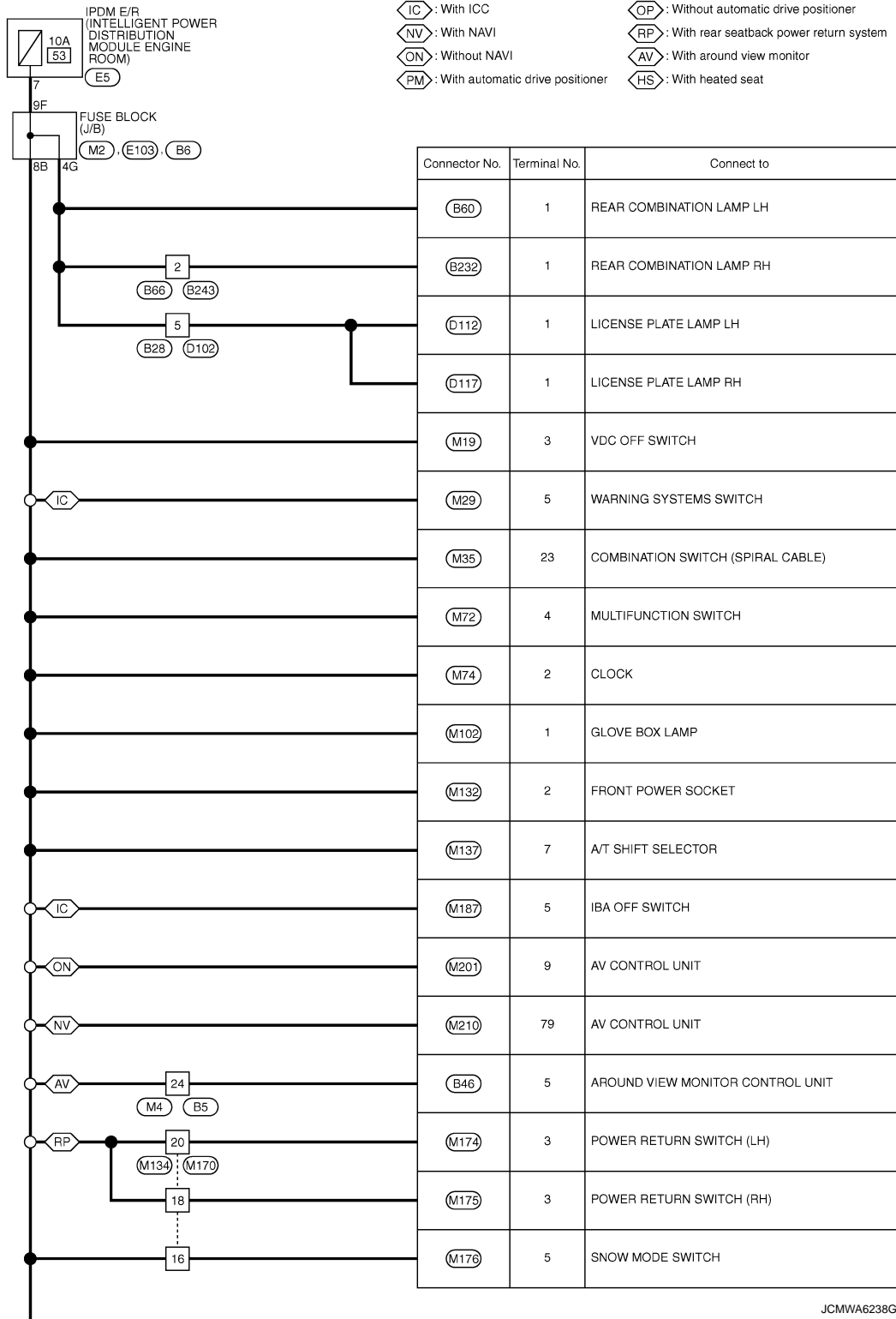
## [POWER SUPPLY & GROUND CIRCUIT]

< DTC/CIRCUIT DIAGNOSIS >

### Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 53 -

INFOID:000000007458751

#### BATTERY POWER SUPPLY FUSE No. 53

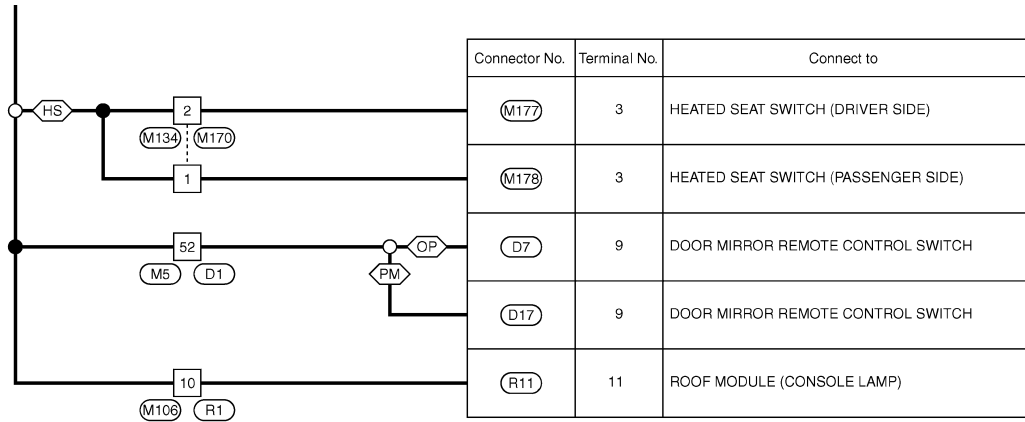


JCMWA6238GB

# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



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2010/09/21

JCMWA6239GB

# POWER SUPPLY ROUTING CIRCUIT

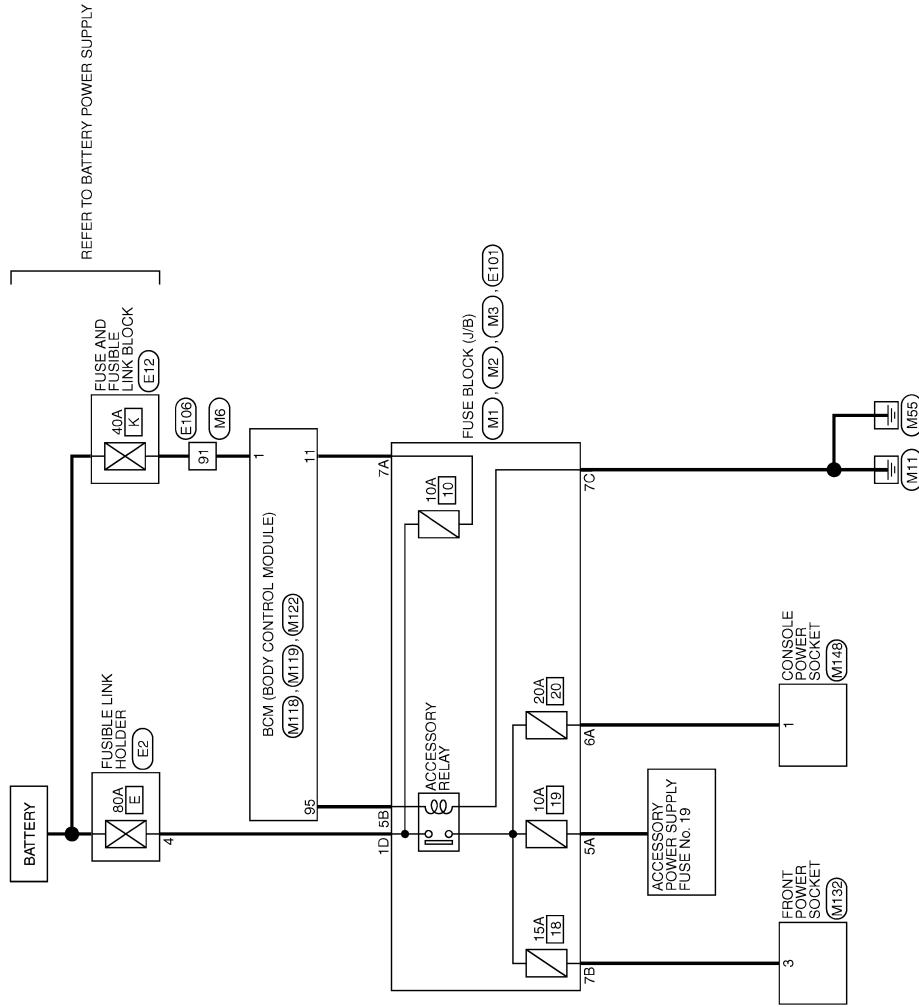
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:000000007458752

### ACCESSORY POWER SUPPLY



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JCMWA6246GB

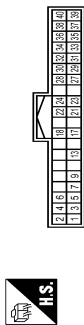
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## ACCESSORY POWER SUPPLY

Connector No.	B46
Connector Name	ROUND VIEW MONITOR CONTROL UNIT
Connector Type	1H40PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	Y	BATTERY
3	P	IGNITION SIGNAL
4	GR	ACC
5	BG	ILLUMINATION SIGNAL
6	SB	VEHICLE SPEED SIGNAL (PULSE)
7	V	REVERSE SIGNAL
8	B	CONTROL SIGNAL
9	W	CONTROL SIGNAL
10	LG	AV COMM(L)
11	LG	AV COMM(U)
12	LG	AV COMM(D)
13	LG	AUXILIARY INWARD LED (+)
14	G	AUXILIARY INWARD LED (-)
15	W	CAMERA IMAGE SIGNAL
16	SHIELD	CAMERA IMAGE SIGNAL GND
17	Y	SIDE CAMERA RH IMAGE SIGNAL
18	Y	SIDE CAMERA RH IMAGE GND
19	SHIELD	SHIELD
20	SHIELD	SHIELD
21	SHIELD	SHIELD
22	B	SIDE CAMERA RH GND
23	W	SIDE CAMERA RH COMM
24	R	SIDE CAMERA RH POWER SUPPLY
25	L	REAR CAMERA COMM
26	BR	REAR CAMERA POWER SUPPLY
27	SHIELD	SHIELD
28	R	REAR CAMERA GND
29	Y	REAR CAMERA IMAGE SIGNAL
30	W	REAR CAMERA IMAGE GND

Connector No.	B87
Connector Name	TEL ADAPTER UNIT
Connector Type	1H32PW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION SIGNAL
4	B	GROUND
5	BR	MICROPHONE SIGNAL
6	SHIELD	MICROPHONE GND
7	SHIELD	TEL VOICE SIGNAL (+)
8	W	TEL VOICE SIGNAL (-)
9	B	CONTROL SIGNAL
10	B	CONTROL SIGNAL
11	P	VEHICLE SPEED (8-PULSE)
12	Y	MICROPHONE VCC

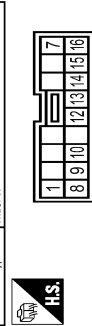
Connector No.	B236
Connector Name	SATELLITE RADIO TUNER
Connector Type	A16FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	SATELLITE RADIO SOUND SIGNAL LH (-)
2	R	SATELLITE RADIO SOUND SIGNAL LH (+)
3	W	SATELLITE RADIO SOUND SIGNAL RH (-)
4	B	SATELLITE RADIO SOUND SIGNAL RH (+)
5	SHIELD	SHIELD
6	SHIELD	SHIELD

Terminal No.	8	L	REQUEST (BAT-CONT)
Terminal No.	9	P	COMM (SAT-CONT)
Terminal No.	10	G	COMM (CONT-SAAT)
Terminal No.	12	Y	BATTERY
Terminal No.	16	V	ACC

Connector No.	D7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TKL6FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
4	B	-
5	R	-
6	R	-
7	G	-
8	GR	-
9	P	-
10	O	-
11	O	-
12	G	-
13	GR	-
14	P	-
15	O	-
16	O	-

Connector No.	E2
Connector Name	FUSE LINK HOLDER
Connector Type	LO7-EX-MC



Terminal No.	3	L	Signal Name [Specification]
Terminal No.	4	R	-

Connector No.	E12
Connector Name	FUSE AND FUSE LINK BLOCK
Connector Type	2438L-7990A



Terminal No.	Color Of Wire	Signal Name [Specification]
31	LG	-
32	LG	-
33	LG	-
34	BR	-
35	R	-
36	R	-
37	BR	-
38	W	-
39	G	-
40	G	-
41	K	-
42	R	-
43	L	-
44	M	-

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

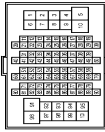
## ACCESSORY POWER SUPPLY

Connector No.	E101
Connector Name	FUSE BLOCK (J/B)
Connector Type	LS1FWA-AC



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-ES1S-TH4

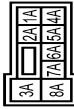


Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	B	-
4	GR	-
5	GR	-
8	Y	-
9	BR	-
10	BG	-
11	SB	-
12	BG	-
13	L	-
14	R	-
15	P	-
16	V	-
17	SB	-
18	W	-
20	BG	-
21	W	-
22	V	-

23	G	-	-	-	-
24	P	-	-	-	-
25	Y	-	-	-	-
26	V	-	-	-	-
27	W	-	-	-	-
28	G	-	-	-	-
31	BG	-	-	-	-
32	W	-	-	-	-
33	B	-	-	-	-
34	R	-	-	-	-
35	G	-	-	-	-
36	SHIELD	-	-	-	-
37	V	-	-	-	-
38	BR	-	-	-	-
39	BG	-	-	-	-
41	W	-	-	-	-
42	G	-	-	-	-
43	BR	-	-	-	-
45	W	-	-	-	-
46	W	-	-	-	-
49	S	-	-	-	-
51	L	-	-	-	-
54	BG	-	-	-	-
57	BR	-	-	-	-
59	W	-	-	-	-
60	LG	-	-	-	-
61	G	-	-	-	-
62	SB	-	-	-	-
63	W	-	-	-	-
64	B	-	-	-	-
65	G	-	-	-	-
66	R	-	-	-	-
67	SHIELD	-	-	-	-
68	Y	-	-	-	-
69	LG	-	-	-	-
70	W	-	-	-	-
71	R	-	-	-	-
72	Y	-	-	-	-
73	B	-	-	-	-
74	BR	-	-	-	- [With ICC]
74	L	-	-	-	- [Without ICC]
75	G	-	-	-	- [With ICC]
75	W	-	-	-	- [Without ICC]
76	W	-	-	-	- [With ICC]
76	Y	-	-	-	- [Without ICC]
77	P	-	-	-	- [With ICC]
77	R	-	-	-	- [Without ICC]
78	BR	-	-	-	- [With ICC]
78	L	-	-	-	- [Without ICC]
79	L	-	-	-	- [Without ICC]

Terminal No.	Color of Wire	Signal Name [Specification]
79	Y	- [With ICC]
80	SR	-
81	R	-
82	SR	-
83	BG	-
84	G	-
85	L	-
86	P	-
87	V	-
89	GR	-
90	SHIELD	-
91	W	-
92	Y	-
93	V	-
94	LG	-
95	BG	-
96	P	-
97	R	-
98	SHIELD	-
99	L	-
100	P	-

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



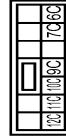
Terminal No.	Color of Wire	Signal Name [Specification]
1A	GR	-
2A	G	-
3A	L	-
4A	P	-
5A	V	-
6A	Y	-
7A	R	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	P	-
8B	R	-
9B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	BG	-
6C	R	-
7C	B	-
9C	BG	-

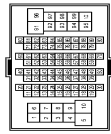
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## ACCESSORY POWER SUPPLY

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW,CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	
2	R	
3	B	
4	SHIELD	
5	G	
6	LG	
7	BR	
8	BR	
9	BR	
10	BR	
11	BR	
12	BE	
13	CC	
14	R	
15	P	
16	V	
17	S8	
18	V	
19	V	
20	BE	
21	L	
22	W	
23	P	
24	BR	
25	Y	
26	V	
27	G	
28	G	
31	L	
32	G	
33	B	
34	W	
35	R	
36	SHIELD	
37	V	
38	BE	
39	BR	
41	W	
42	BE	

Terminal No.	Color Of Wire	Signal Name [Specification]
43	BG	
45	W	
49	L	
50	P	
51	BR	
54	Y	
57	G	
59	W	
60	L	
61	G	
62	S8	
63	G	
64	B	
65	W	
66	R	
67	SHIELD	
68	Y	
69	GR	
70	LG	
71	LG	
72	W	
73	S8	
74	BR	
75	G	
76	G	
77	P	
78	R	
79	W	
80	S8	
81	S8	
82	S8	
83	V	
84	G	
85	L	
86	P	
87	W	
89	GR	
90	SHIELD	
91	W	
92	Y	
93	BR	
94	P	
95	R	
96	W	
97	L	

98	SHIELD	-
99	V	-
100	S8	-

Connector No.	M47
Connector Name	SONAR CONTROL UNIT
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	R	CORNER SENSOR SIGNAL FRONT LH
4	W	CORNER SENSOR SIGNAL FRONT RH
5	W	CORNER SENSOR SIGNAL REAR LH
6	W	CORNER SENSOR SIGNAL REAR RH
7	B	ACC
8	V	K LINE
18	G	AV COMM (H)
19	G	AV COMM (L)
20	R	GROUND
24	B	GROUND

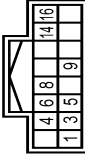
Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL

46	BG	SUNLOAD SENSOR SIGNAL
47	G	EXHAUST GAS/OUPSIDE COOLER FUELING SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	Y	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	BR	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	S8	SUNLOAD SENSOR GROUND
63	R	-
65	BE	ECV SIGNAL
69	L	A/C/LAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

Connector No.	M72
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	ACC
4	R	ILL
5	Y	ILL CONT
6	S8	AV COMM (H)
8	LG	AV COMM (L)
9	B	SW GND
14	Y	DISK EJECT SIGNAL
16	G	HAZARD ON

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JRMWG8143GB

# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## ACCESSORY POWER SUPPLY

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (F/L)
2	W	POWER WINDOW POWER SUPPLY (BAT)
3	Y	POWER WINDOW POWER SUPPLY (RSP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	HS16FH-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	LG	INTERIOR ROOM LAMP POWER SUPPLY
5	L	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP CONT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
14	W	PUSH-BUTTON IGNITION SW ILL GND
15	Y	ACC I/ND
17	W	TURN SIGNAL BRT (FRONT)
18	BG	TURN SIGNAL LHT (FRONT)
19	V	INT ROOM LAMP CONT

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	GR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	BR	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	MAX ANT AMP
81	W	MAX ANT AMP
82	R	IGN RELAY (F) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL CONT
93	V	ON IND
94	Y	PUDDLE LAMP CONT
95	BG	ACC RELAY CONT
96	GR	A/T SHIFT SELECTOR POWER SUPPLY
99	R	SHIFT P
100	G	PASSENGER DOOR REQUEST SW
101	SB	DRIVER DOOR REQUEST SW
102	BG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW

Connector No.	M132
Connector Name	FRONT POWER SOCKET
Connector Type	NS03FW-CS



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

Connector No.	M148
Connector Name	CONSOLE POWER SOCKET
Connector Type	PO16BZ



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

Connector No.	M201
Connector Name	AV CONTROL UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	SOUND SIGNAL FRONT LH (+)
3	R	SOUND SIGNAL FRONT LH (-)
4	LG	SOUND SIGNAL REAR DOOR SPEAKER LH (+)
5	L	SOUND SIGNAL REAR DOOR SPEAKER LH (-)
6	P	STRG SW A
7	P	STRG SW A
8	R	ILLUMINATE SIGNAL
9	R	SOUND SIGNAL FRONT RH (+)
11	W	SOUND SIGNAL FRONT RH (-)
12	W	SOUND SIGNAL REAR DOOR SPEAKER RH (+)
13	L	SOUND SIGNAL REAR DOOR SPEAKER RH (-)
14	P	STRG SW B
15	B	STRG SW B
16	L	STRG SW B
19	Y	BATTERY
20	B	GROUND

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

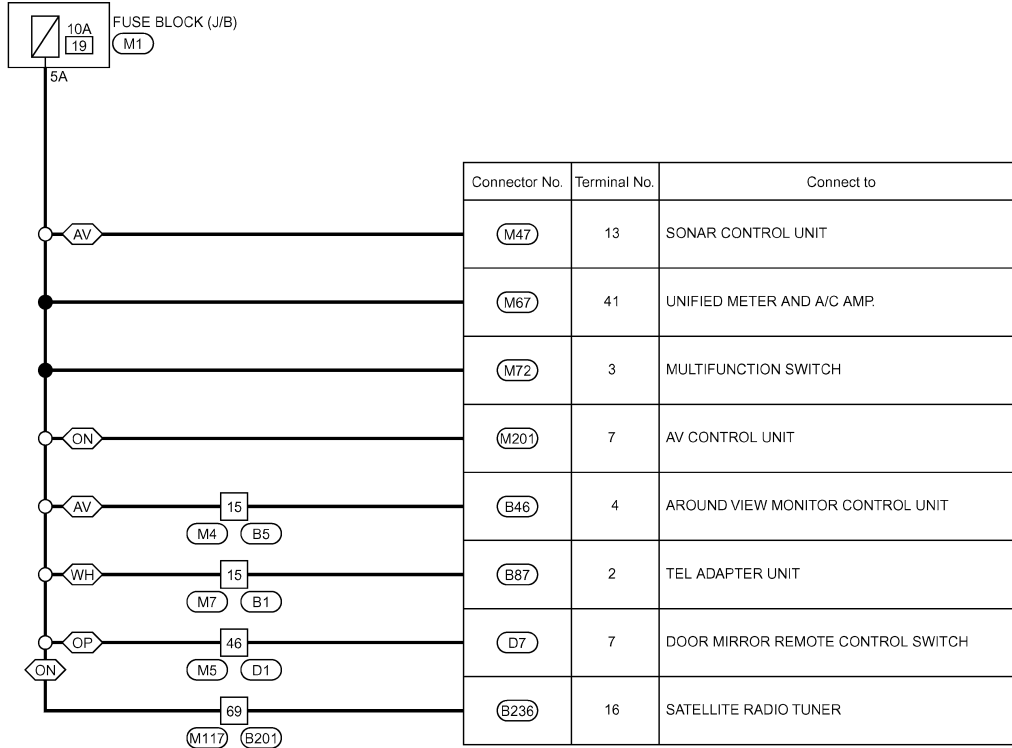
[POWER SUPPLY & GROUND CIRCUIT]

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

INFOID:000000007458753

### ACCESSORY POWER SUPPLY FUSE No. 19

- ⬡ON⬡ : Without NAVI
- ⬡AV⬡ : With around view monitor
- ⬡OP⬡ : Without automatic drive positioner
- ⬡WH⬡ : With hands-free phone



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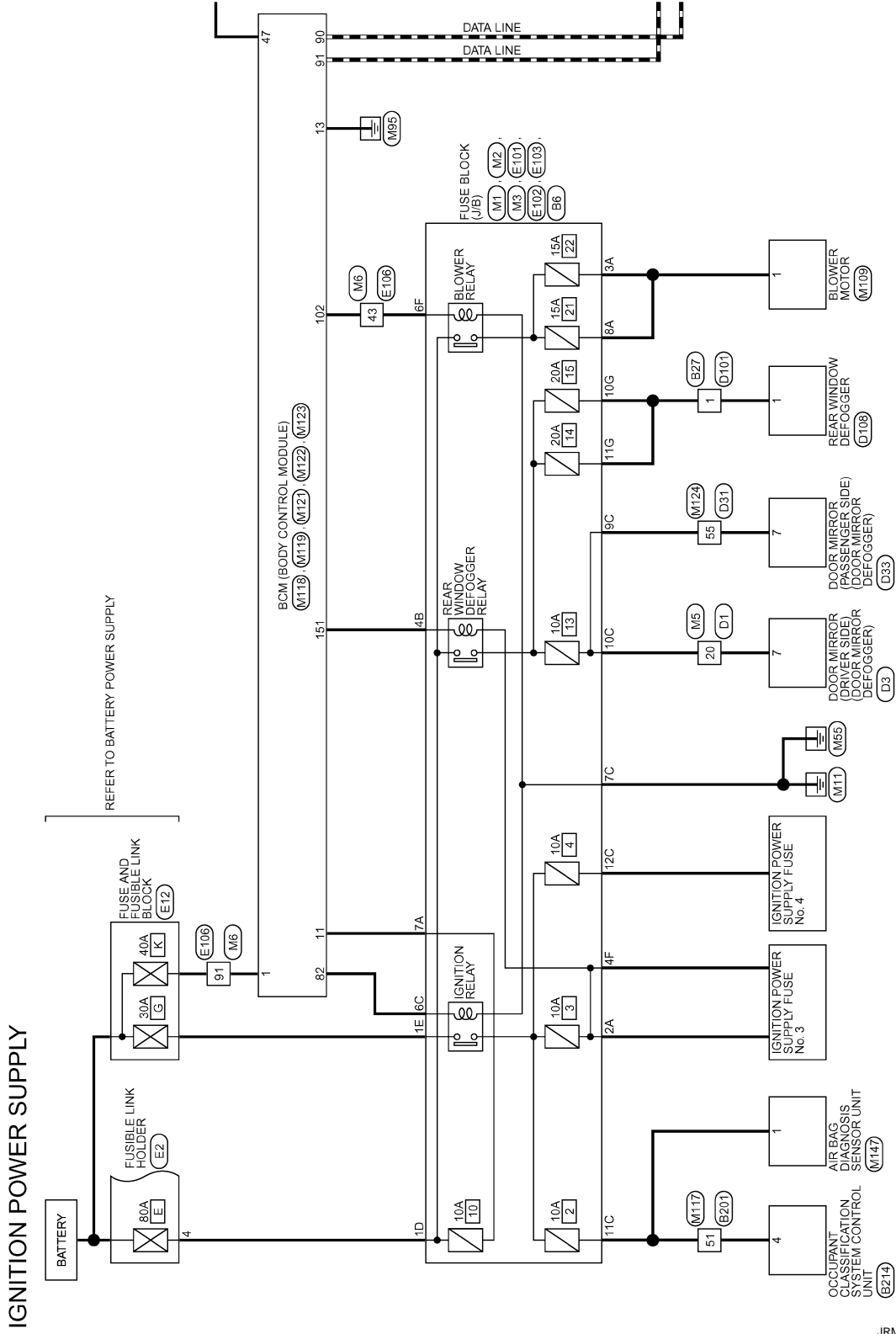
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Wiring Diagram - IGNITION POWER SUPPLY -

INFOID:000000007458754

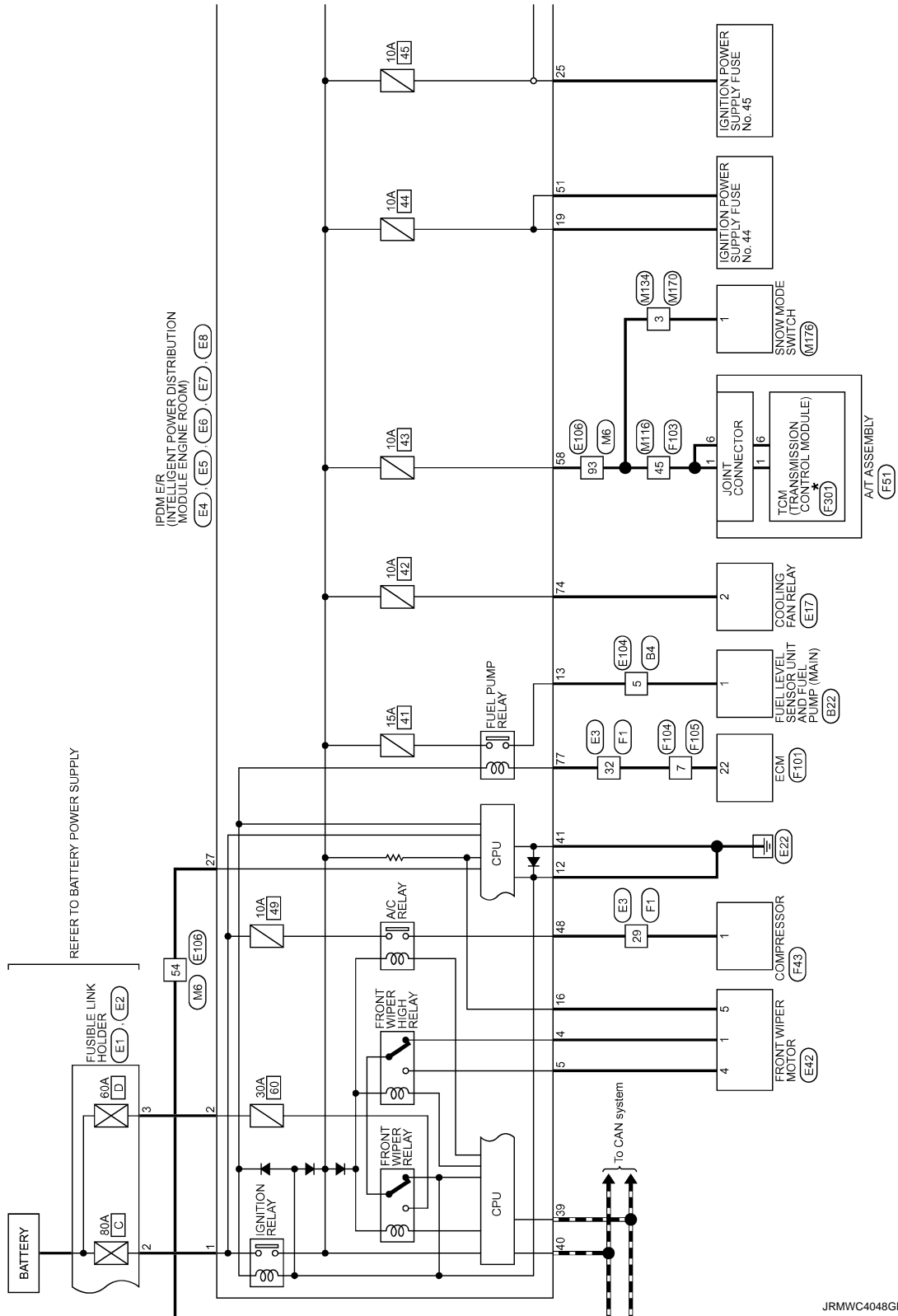


# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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




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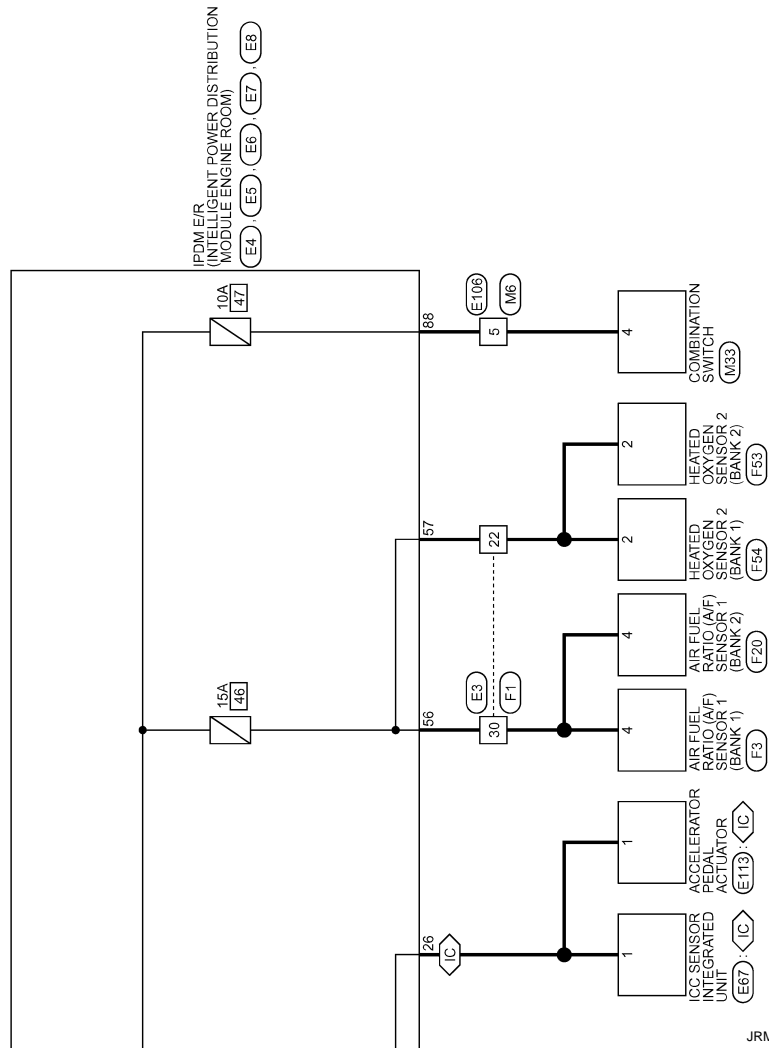
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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

 With ICC



JRMWC4049GB

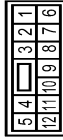
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

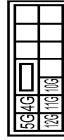
## IGNITION POWER SUPPLY

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-C5



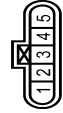
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	B	-
3	G	-
4	SHIELD	-
5	P	-
6	Y	-
7	R	-
8	GR	-
9	LG	-
10	LG	-
11	LG	-
12	GR	-

Connector No.	BK
Connector Name	FUSE BLOCK (I/II)
Connector Type	NS12FBK-C5



Terminal No.	Color Of Wire	Signal Name [Specification]
10G	W	-
11G	W	-
12G	GR	-
4G	R	-
5G	LG	-

Connector No.	B22
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)
Connector Type	ED32CV-R5



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

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	M05BAM-LC



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

Connector No.	B46
Connector Name	ROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40V-WH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	Y	BATTERY
3	P	IGNITION SIGNAL
4	GR	ACC
5	BS	ILLUMINATION SIGNAL
6	SB	VEHICLE SPEED SIGNAL (S-PULSE)
7	V	REVERSE SIGNAL
8	B	CONTROL SIGNAL
9	SB	AV COMM (L)
10	LG	AV COMM (U)
11	SR	AV COMM (H)
12	LG	AV COMM (L)
13	LG	AUXILIARY INFRARED LED (+)
14	G	AUXILIARY INFRARED LED (-)
15	W	CAMERA IMAGE SIGNAL
16	SHIELD	CAMERA IMAGE SIGNAL GND
17	Y	SIDE CAMERA RH IMAGE SIGNAL
18	Y	VEHICLE SPEED SIGNAL (S-PULSE)
19	Y	VEHICLE SPEED SIGNAL (S-PULSE)
20	G	SHIELD
21	SHIELD	SHIELD
22	B	SIDE CAMERA RH GND
23	W	SIDE CAMERA RH COMM
24	R	REAR CAMERA POWER SUPPLY
25	L	REAR CAMERA COMM
26	BR	SHIELD
27	SHIELD	SHIELD
28	R	REAR CAMERA GND
29	Y	REAR CAMERA IMAGE SIGNAL
30	W	REAR CAMERA IMAGE GND
31	W	REAR CAMERA IMAGE SIGNAL
32	W	REAR CAMERA IMAGE GND
33	R	REAR CAMERA COMM
34	L	REAR CAMERA COMM
35	BR	SHIELD
36	SHIELD	SHIELD
37	SHIELD	SHIELD
38	R	REAR CAMERA GND
39	Y	REAR CAMERA IMAGE SIGNAL
40	W	REAR CAMERA IMAGE GND

Connector No.	B50
Connector Name	BSW CONTROL MODULE
Connector Type	TH16FW-WH



Terminal No.	Color Of Wire	Signal Name [Specification]
6	B	GROUND
7	L	BSW COMM (H)
8	Y	BSW COMM (L)
14	L	CAN-H
15	P	CAN-L
16	G	IGNITION

Connector No.	B87
Connector Name	TEL ADAPTER UNIT
Connector Type	TH32FW-WH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY
2	LG	ACC
3	W	IGNITION SIGNAL
4	B	GROUND
7	BR	MICROPHONE SIGNAL
8	SHIELD	MICROPHONE GND
9	SHIELD	TEL VOICE SIGNAL (+)
10	W	TEL VOICE SIGNAL (-)
22	B	CONTROL SIGNAL
23	B	CONTROL SIGNAL
24	B	CONTROL SIGNAL
28	P	VEHICLE SPEED (S-PULSE)
29	Y	MICROPHONE VCC

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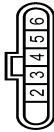
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

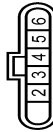
## IGNITION POWER SUPPLY

Connector No.	B1L05
Connector Name	SIDE MADAR LH
Connector Type	AAACDFB-WP-SP



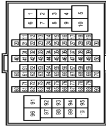
Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	GROUND
3	Y	BSW COMM-L
4	L	BSW COMM-H
5	G	IGNITION
6	R	BSW INDICATOR

Connector No.	B1E07
Connector Name	SIDE MADAR RH
Connector Type	AAACDFB-WP-SP



Terminal No.	Color Of Wire	Signal Name [Specification]
2	B	GROUND
3	Y	BSW COMM-L
4	L	BSW COMM-H
5	G	IGNITION
6	BR	BSW INDICATOR

Connector No.	B2Z01
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	GR	-
4	BSG	-
5	LG	-
6	BR	-
7	Y	-
8	P	-
9	V	-
10	BR	-
11	BR	-
12	L	-
13	Y	-
14	Y	-
15	GR	-
16	R	-
17	R	-
18	BR	-
19	L	-
20	Y	-
21	Y	-
22	GR	-
23	R	-
24	BR	-
25	G	-
26	G	-
27	R	-
28	R	-
29	R	-
30	GR	-
31	R	-
32	BR	-
33	G	-
34	G	-
35	R	-
36	V	-
37	G	-
38	R	-
39	W	-
40	W	-
41	W	-
42	W	-
43	W	-
44	W	-
45	W	-
46	W	-
47	W	-
48	W	-
49	W	-
50	W	-
51	W	-
52	W	-
53	W	-
54	W	-
55	W	-
56	R	-
57	W	-
58	B	-
59	SHIELD	-
60	LG	-
61	W	-
62	BR	-
63	P	-
64	L	-
65	G	-
66	P	-
67	P	-
68	SHIELD	-
69	Y	-
70	Y	-
71	SB	-

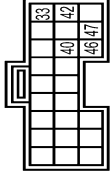
72	W	-
73	BR	-
74	Y	-
75	Y	-
76	V	-
77	V	-
78	V	-
79	V	-
80	V	-
81	SB	-
82	LG	-
83	P	-
84	R	-
85	L	-
86	BSG	-
87	L	-
88	P	-
89	P	-
90	R	-
91	V	-
92	R	-
93	R	-
94	R	-
95	SB	-
96	G	-
97	G	-
98	R	-
99	P	-
100	L	-

Connector No.	B214
Connector Name	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
Connector Type	TH08PW-4H



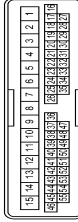
Terminal No.	Color Of Wire	Signal Name [Specification]
2	V	COMMUNICATION
4	R	IGN
5	B	GROUND

Connector No.	B249
Connector Name	BRAKE BOOSTER CONTROL UNIT
Connector Type	TK24FSY



Terminal No.	Color Of Wire	Signal Name [Specification]
33	BR	IGNITION
40	SB	IBL OFF SW
42	G	IGNITION
45	B	GROUND
47	V	BRAKE HOLD/PT DRIVE SIGNAL

Connector No.	DI
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-CS15



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

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

16	R	-	-
17	W	G	-
18	G	-	-
19	Y	-	-
20	W	-	-
21	O	-	-
22	P	-	-
23	BR	-	-
24	V	-	-
25	GR	-	-
26	Y	-	-
27	B	-	-
28	SHIELD	-	-
29	LG	-	-
30	G	-	-
31	W	-	-
32	G	-	-
33	L	-	-
34	SR	-	-
35	R	-	-
36	LG	-	-
37	R	-	-
38	O	-	-
40	BR	-	-
41	L	-	-
42	GR	-	-
43	BR	- [With automatic drive positioner]	-
43	O	- [Without automatic drive positioner]	-
44	GR	- [Without automatic drive positioner]	-
44	W	- [With automatic drive positioner]	-
45	G	- [Without automatic drive positioner]	-
45	Y	- [With automatic drive positioner]	-
46	G	- [Without automatic drive positioner]	-
46	V	- [With automatic drive positioner]	-
49	GR	- [Without automatic drive positioner]	-
50	B	-	-
52	R	-	-
53	SR	-	-
54	O	-	-
55	Y	-	-

Connector No.	D33
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-AH



12	11	10	7	6	5	3	2
24	23	22	21	19	18	17	14

Terminal No.	Color Of Wire	Signal Name [Specification]
2	O	-
3	B	SIDE CAMERA LH COMM
5	Y	SIDE CAMERA LH IMAGE SIGNAL
6	R	SIDE CAMERA LH POWER SUPPLY
7	W	-
10	G	-
11	P	-
12	G	-
14	G	-
17	G	SIDE CAMERA LH IMAGE GND
18	W	SIDE CAMERA LH GND
19	B	-
21	GR	-
22	BR	-
23	Y	-
24	V	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH4DFW-CS15



15	14	13	11	10	9	8	7	6	5	4	3	2	1
32	31	30	29	28	27	26	25	24	23	22	21	20	19

13	LG	-	-
14	B	-	-
15	W	-	-
16	BR	-	-
17	B	-	-
18	R	-	-
19	Y	-	-
20	B	- [With BOSE audio]	-
20	R	- [Without BOSE audio]	-
21	BR	- [With BOSE audio]	-
21	G	- [Without BOSE audio]	-
22	V	-	-
23	P	-	-
24	W	-	-
25	SR	-	-
26	R	-	-
29	SHIELD	-	-
30	W	-	-
31	LG	-	-
32	BR	-	-
33	O	-	-
34	GR	-	-
35	P	-	-
43	Y	-	-
44	V	-	-
45	P	-	-
46	W	-	-
52	G	-	-
53	GR	-	-
54	O	-	-
55	L	-	-

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH24MW-AH



12	11	10	7	6	5	4	3
24	23	22	21	19	18	17	16

Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	SIDE CAMERA RH COMM
4	LG	SIDE CAMERA RH IMAGE SIGNAL
5	B	SIDE CAMERA RH POWER SUPPLY

6	R	-	-
7	L	-	-
10	G	-	-
11	GR	-	-
12	O	-	-
16	BR	-	-
17	G	SIDE CAMERA RH IMAGE GND	
18	Y	SIDE CAMERA RH GND	
19	B	-	
21	P	-	
22	Y	-	
23	W	-	
24	V	-	

Connector No.	D11
Connector Name	WIRE TO WIRE
Connector Type	MG65W-LC



3	2	1
6	5	4

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

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

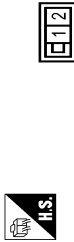
## IGNITION POWER SUPPLY

Connector No.	D108
Connector Name	REAR WINDOW DEFROGGER
Connector Type	MD2MB-P-LC



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

Connector No.	E1
Connector Name	FUSIBLE LINK HOLDER
Connector Type	LD2PB-MC



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

Connector No.	E2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	LD2FY-MC



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

Connector No.	E3
Connector Name	WIRE TO WIRE
Connector Type	5AA3BMB-IS10-S12Z



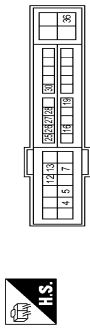
Terminal No.	21	Y
Color Of Wire		
Signal Name [Specification]		
Terminal No.	22	G
Color Of Wire		
Signal Name [Specification]		
Terminal No.	23	W
Color Of Wire		
Signal Name [Specification]		
Terminal No.	24	LG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	25	SR
Color Of Wire		
Signal Name [Specification]		
Terminal No.	26	R
Color Of Wire		
Signal Name [Specification]		
Terminal No.	27	P
Color Of Wire		
Signal Name [Specification]		
Terminal No.	28	L
Color Of Wire		
Signal Name [Specification]		
Terminal No.	29	L
Color Of Wire		
Signal Name [Specification]		
Terminal No.	30	LG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	31	LG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	32	R
Color Of Wire		
Signal Name [Specification]		
Terminal No.	33	P
Color Of Wire		
Signal Name [Specification]		
Terminal No.	34	W
Color Of Wire		
Signal Name [Specification]		
Terminal No.	35	SR
Color Of Wire		
Signal Name [Specification]		
Terminal No.	40	BG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	41	G
Color Of Wire		
Signal Name [Specification]		
Terminal No.	42	Y
Color Of Wire		
Signal Name [Specification]		
Terminal No.	43	BR
Color Of Wire		
Signal Name [Specification]		
Terminal No.	44	BG
Color Of Wire		
Signal Name [Specification]		

Connector No.	E4
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	LD2PB-MC



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

Connector No.	E5
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V



Terminal No.	4	V
Color Of Wire		
Signal Name [Specification]		
Terminal No.	5	L
Color Of Wire		
Signal Name [Specification]		
Terminal No.	7	R
Color Of Wire		
Signal Name [Specification]		
Terminal No.	12	B/W
Color Of Wire		
Signal Name [Specification]		
Terminal No.	13	Y
Color Of Wire		
Signal Name [Specification]		
Terminal No.	16	LG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	19	W
Color Of Wire		
Signal Name [Specification]		
Terminal No.	25	G
Color Of Wire		
Signal Name [Specification]		
Terminal No.	26	R
Color Of Wire		
Signal Name [Specification]		
Terminal No.	27	BG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	28	L
Color Of Wire		
Signal Name [Specification]		
Terminal No.	30	GR
Color Of Wire		
Signal Name [Specification]		
Terminal No.	36	G
Color Of Wire		
Signal Name [Specification]		

Connector No.	E6
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH08FW-NH



Terminal No.	39	P
Color Of Wire		
Signal Name [Specification]		
Terminal No.	40	L
Color Of Wire		
Signal Name [Specification]		
Terminal No.	41	B/W
Color Of Wire		
Signal Name [Specification]		
Terminal No.	43	SR
Color Of Wire		
Signal Name [Specification]		
Terminal No.	44	BR
Color Of Wire		
Signal Name [Specification]		
Terminal No.	45	G
Color Of Wire		
Signal Name [Specification]		
Terminal No.	46	R
Color Of Wire		
Signal Name [Specification]		

Connector No.	E7
Connector Name	POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4



Terminal No.	48	L
Color Of Wire		
Signal Name [Specification]		
Terminal No.	49	BG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	51	Y
Color Of Wire		
Signal Name [Specification]		
Terminal No.	53	W
Color Of Wire		
Signal Name [Specification]		
Terminal No.	54	P
Color Of Wire		
Signal Name [Specification]		
Terminal No.	55	SR
Color Of Wire		
Signal Name [Specification]		
Terminal No.	57	LG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	58	G
Color Of Wire		
Signal Name [Specification]		
Terminal No.	69	BR
Color Of Wire		
Signal Name [Specification]		
Terminal No.	72	RG
Color Of Wire		
Signal Name [Specification]		
Terminal No.	73	SR
Color Of Wire		
Signal Name [Specification]		

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# POWER SUPPLY ROUTING CIRCUIT

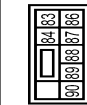
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

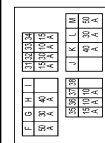
76	Y	-	-	-	-
77	R	-	-	-	-
80	W	-	-	-	-

Connector No.	EB
Connector Name	IGNITION POWER SUPPLY (ENGINE ROOM)
Connector Type	NSBPM-ES



Terminal No.	Color Of Wire	Signal Name [Specification]
83	EG	-
84	V	-
85	W	-
86	EG	-
88	BR	-
90	P	-

Connector No.	E12
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	2438.1-7990A



Terminal No.	Color Of Wire	Signal Name [Specification]
31	LG	-
32	P	-
33	EG	-
34	V	-
35	R	-
36	R	-
37	BR	-
38	W	-

G	G	-	-	-	-
H	G	-	-	-	-
K	W	-	-	-	-
L	R	-	-	-	-
M	G	-	-	-	-

Connector No.	E17
Connector Name	COOLING FAN RELAY
Connector Type	24347-9F900



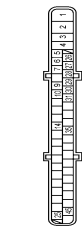
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	W	-
4	W	-
5	R	-

Connector No.	E26
Connector Name	HEADLAMP AIMING MOTOR RH
Connector Type	H503FGY



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

Connector No.	E41
Connector Name	INDUCTOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA27FB-AH24 LH



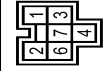
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	UBWR
3	R	UBVR
4	B	GROUND
5	Y	DS-FL
6	EG	DP-RL
7	BR	DP-RL
8	R	DP-RL
9	R	DP-RL
10	R	CP-RL
11	R	CP-RL
12	R	CP-RL
13	R	CP-RL
14	R	CP-RL
15	Y	BUS-L
16	LG	DP-FL
17	GR	DS-RL
18	G	UZ
19	LG	DS-RR
20	SB	BLS
31	R	VDC OFF SW
35	L	CAN-H
45	B	BUS-H

Connector No.	E42
Connector Name	FRONT WIPER MOTOR
Connector Type	H505FGY



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

Connector No.	ES0
Connector Name	LCC BRAKE HOLD RELAY
Connector Type	MSBFGY-FLUS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	B	-
3	P	-
4	SB	-
6	P	-
7	R	-

Connector No.	E56
Connector Name	HEADLAMP AIMING MOTOR LH
Connector Type	H503FGY



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

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

Connector No.	E67
Connector Name	ICC-SENSOR INTEGRATED UNIT
Connector Type	RS08FB-PR



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

Connector No.	E101
Connector Name	FUSE BLOCK (J/B)
Connector Type	1011FW-MC



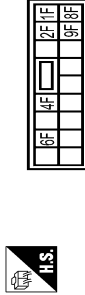
Terminal No.	Color Of Wire	Signal Name [Specification]
1D	R	

Connector No.	E102
Connector Name	FUSE BLOCK (J/B)
Connector Type	M02FB-LC



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

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS18FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1F	SB	
2F	W	
4F	G	
6F	BR	
8F	L	
9F	R	

Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	
2	BR	
3	L	
4	SHIELD	
5	Y	
6	B	
8	R	
9	C	
10	BR	
11	LG	
12	GR	

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



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	
2	W	
3	B	
4	GR	
5	GR	
8	BR	
10	BR	
11	SB	

12	BG	
13	L	
14	R	
15	P	
16	V	
17	SB	
18	V	
20	BG	
21	L	
22	V	
23	G	
24	P	
25	Y	
26	V	
27	W	
28	G	
31	BG	
32	W	
33	B	
34	C	
35	C	
36	SHIELD	
37	V	
38	BR	
39	BR	
41	W	
42	G	
43	BR	
45	W	
49	L	
50	P	
51	L	
54	BG	
57	BR	
59	W	
60	LG	
61	G	
62	SB	
63	W	
64	B	
65	G	
66	R	
67	SHIELD	
68	Y	
69	LG	
70	W	
71	W	
72	R	
73	R	
74	B	

---[W/B] (CC)

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

74	L	-	[Without LCC]
75	G	-	[With LCC]
76	W	-	[Without LCC]
77	Y	-	[Without LCC]
78	BR	-	[With LCC]
79	L	-	[Without LCC]
80	SB	-	[With LCC]
81	R	-	-
82	SB	-	-
83	BG	-	-
84	G	-	-
85	L	-	-
86	P	-	-
87	V	-	-
88	GR	-	-
89	SHIELD	-	-
90	W	-	-
91	V	-	-
92	V	-	-
93	LG	-	-
94	LG	-	-
95	BG	-	-
96	P	-	-
97	R	-	-
98	SHIELD	-	-
99	L	-	-
100	P	-	-

Connector No.	E109
Connector Name	ASC/BRAKE SWITCH
Connector Type	MD2FBR-LC



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

Connector No.	E110
Connector Name	STOP LAMP SWITCH
Connector Type	MD4FW-LC



Terminal No.	1	2	3	4
Color of Wire	L	W	Y	SB
Signal Name [Specification]	-	-	-	-

Connector No.	E113
Connector Name	ACCELERATOR PEDAL ACTUATOR
Connector Type	MD206FB



Terminal No.	1	2	3	4	5
Color of Wire	R	BG	P	B/W	L
Signal Name [Specification]	IGNITION	BATTERY	ITS.COMM-L	GROUND	ITS.COMM-H

Connector No.	E120
Connector Name	THROTTLE GAS / TURBO CHARGER DETECTION SW
Connector Type	RH03FB



Terminal No.	1	2	3
Color of Wire	W	P	G
Signal Name [Specification]	POWER	GROUND	GAS SENSOR SIGNAL

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SA-35FB-RS-D-52Z



Terminal No.	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41
Color of Wire	GR	P	G	W	P	BR	R	L	Y	V	LG	GR	G	SB	LG	G	SB	LG	SB	LG	SB	LG	SB
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Terminal No.	42	43	44
Color of Wire	P	BR	BG
Signal Name [Specification]	-	-	-

Connector No.	F3
Connector Name	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 1)
Connector Type	RH04MDCI-BR



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

Connector No.	F20
Connector Name	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 2)
Connector Type	RH04MDCI-BR



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

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

Connector No.	F21
Connector Name	FUEL INJECTOR No. 1
Connector Type	HS02FGY



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

Connector No.	F22
Connector Name	FUEL INJECTOR No. 2
Connector Type	HS02FGY



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

Connector No.	F23
Connector Name	FUEL INJECTOR No. 3
Connector Type	HS02FGY



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

Connector No.	F24
Connector Name	FUEL INJECTOR No. 4
Connector Type	HS02FGY



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

Connector No.	F25
Connector Name	FUEL INJECTOR No. 5
Connector Type	HS02FGY



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

Connector No.	F26
Connector Name	FUEL INJECTOR No. 6
Connector Type	HS02FGY



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

Connector No.	F43
Connector Name	COMPRESSOR
Connector Type	RS01FB



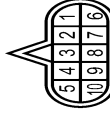
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-

Connector No.	F44
Connector Name	COMPRESSOR
Connector Type	RK02FGY



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

Connector No.	F51
Connector Name	A/T ASSEMBLY
Connector Type	RKLD6G.DGY



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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	BR	-
3	L	-
4	V	-
5	B	-
6	Y	-
7	R	-
8	P	-
9	GR	-
10	B	-

Connector No.	F53
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 2)
Connector Type	AF204FB



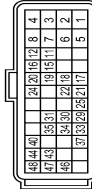
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	G	-
3	S8	-
4	BC	-

Connector No.	F54
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 1)
Connector Type	AF204FB



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

Connector No.	F101
Connector Name	ECM
Connector Type	RH40FR-R28-L-1H-Z



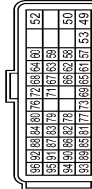
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	B	-
4	BR	-
5	GR	-
6	S8	-
7	Y	-
8	B	-
9	Y	-
10	GR	-
11	GR	-
12	L	-
13	V	-
14	G	-
15	G	-
16	P	-
17	W	-
18	W	-
19	S8	-
20	Y	-
21	GR	-
22	LG	-
23	W	-
24	BR	-
25	BC	-
26	G	-
27	Y	-
28	Y	-
29	R	-
30	Y	-
31	R	-
32	S8	-
33	S8	-
34	L	-
35	W	-
36	W	-
37	LG	-
38	R	-
39	R	-

Connector No.	F101
Connector Name	ECM
Connector Type	RH40FR-R28-L-1H-Z



Terminal No.	Color of Wire	Signal Name [Specification]
43	G	-
44	B	-
45	R	-
46	Y	-
47	Y	-
48	B	-

Connector No.	F102
Connector Name	ECM
Connector Type	RH40FR-R28-L-1H-Z



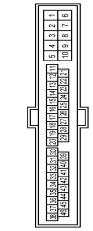
Terminal No.	Color of Wire	Signal Name [Specification]
49	L	-
50	R	-
51	R	-
52	P	-
53	P	-
54	L	-
55	L	-
56	GR	-
57	GR	-
58	GR	-
59	BC	-
60	R	-
61	R	-
62	G	-
63	S8	-
64	W	-
65	V	-
66	LG	-
67	P	-
68	LG	-
69	W	-
70	Y	-
71	Y	-
72	SHIELD	-
73	W	-
74	W	-
75	W	-
76	W	-
77	S8	-
78	G	-
79	GR	-
80	BC	-
81	R	-
82	V	-
83	G	-
84	B	-

Connector No.	F102
Connector Name	ECM
Connector Type	RH40FR-R28-L-1H-Z



Terminal No.	Color of Wire	Signal Name [Specification]
85	BR	-
86	W	-
87	Y	-
88	LG	-
89	GR	-
90	BC	-
91	S8	-
92	P	-
93	P	-
94	LG	-
95	G	-
96	B	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TR56FWANS1D



Terminal No.	Color of Wire	Signal Name [Specification]
2	G	-
3	W	-
4	R	-
5	B	-
9	Y	-
10	GR	-
19	BC	-
20	Y	-
28	B	-
29	LG	-
31	R	-
33	B	-
34	B	-
35	L	-
36	P	-
37	Y	-
38	G	-
43	P	-
44	L	-
45	Y	-
46	V	-

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TR56FWANS1D



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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

Connector No.	F104
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



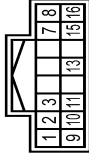
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	L	-
4	Y	-
5	GR	-
6	LG	-
7	BL	-
8	BS	-

Connector No.	F105
Connector Name	WIRE TO WIRE
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	-
2	V	-
3	L	-
4	Y	-
5	GR	-
6	LG	-
7	BL	-
8	BS	-

Connector No.	F108
Connector Name	AWD CONTROL UNIT
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	AWD SOL (+)
2	Y	AWD SOL (-)
3	W	OIL TEMP.
4	G	IGN.
5	L	CAN-H
6	GR	AWD SOL BATT
7	LG	GROUND
8	B	OIL TEMP.
9	Y	BATTERY
10	P	CAN-L
11	-	-
13	-	-
14	-	-
15	-	-
16	-	-

Connector No.	F101
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	SP1DFG



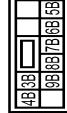
Terminal No.	Color Of Wire	Signal Name [Specification]
1	-	VIGN
2	-	BATT
3	-	CAN-H
4	-	GROUND
5	-	VIGN
6	-	REG COMP RV
7	-	COMP RV
8	-	START RELY
9	-	-

Connector No.	10
Connector Name	GROUND
Connector Type	-



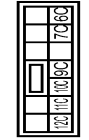
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	GR	-
2A	G	-
3A	L	-
4A	L	-
5A	Y	-
6A	R	-
7A	R	-
8A	L	-

Connector No.	M2
Connector Name	FUSE BLOCK (F/B)
Connector Type	NS10FW-CS



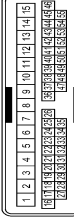
Terminal No.	Color Of Wire	Signal Name [Specification]
3B	P	-
4B	G	-
5B	GR	-
6B	Y	-
7B	P	-
8B	R	-
9B	S	-

Connector No.	M3
Connector Name	FUSE BLOCK (F/B)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	BR	-
7C	R	-
8C	B	-
9C	BR	-

Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



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

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# POWER SUPPLY ROUTING CIRCUIT

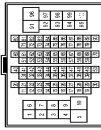
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
15	W	
16	R	
17	B	
18	G	
19	Y	
20	L	
21	LG	
22	G	
23	G	
24	Y	
25	GR	
26	R	
27	W	
28	SHIELD	
29	Y	
30	Y	
31	R	
32	BR	
33	SR	
34	Y	
35	L	
36	LG	
37	P	
38	P	
39	RG	
40	SR	
41	L	
42	R	
43	BR	
44	V	
45	G	
46	V	
49	P	
50	B	
52	R	
53	V	
54	LG	
55	SR	

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	
2	R	
3	B	
4	SHIELD	
5	G	
6	Y	
7	BR	
8	V	
9	BR	
10	L	
11	BR	
12	RG	
13	P	
14	R	
15	P	
16	V	
17	SR	
18	V	
20	RG	
21	L	
22	W	
23	P	
24	BR	
25	Y	
26	V	
27	G	
28	G	
31	L	
32	G	
33	B	
34	W	
35	R	
36	SHIELD	
37	V	
38	RG	
39	BR	
41	W	
42	RG	

Terminal No.	Color Of Wire	Signal Name [Specification]
43	RG	
45	W	
49	L	
50	P	
51	BR	
54	Y	
57	G	
59	W	
60	L	
61	G	
62	SR	
63	G	
64	B	
65	W	
66	R	
67	SHIELD	
68	Y	
69	GR	
70	LG	
71	LG	
72	SR	
73	SR	
74	BR	
75	G	
76	G	
76	WR	
77	P	
77	R	
78	L	
78	R	
79	Y	
79	Y	
80	SR	
81	SR	
82	SR	
83	V	
84	G	
85	L	
86	P	
87	W	
89	GR	
90	SHIELD	
91	W	
92	Y	
93	BR	
94	P	
95	GR	
96	W	
97	L	

98	SHIELD
99	V
100	SR

Connector No.	M16
Connector Name	AFS CONTROL UNIT
Connector Type	TH4DFW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	IGN
2	LG	PSG-R
4	W	PSG-R
7	P	COG-L
8	B	HSG-R
9	GR	PSG-R
11	R	SMR-1 (-)
13	B	SMR-2 (-)
15	G	SMR-2 (+)
17	W	SMR-2 (+)
19	SR	AMDS-R
24	V	PSW-L
25	B	GROUND
27	BR	PSG-L
28	BR	HS-R
29	BR	PS-L
30	L	CAN-H
32	G	SMR-2 (+)
34	W	SMR-2 (+)
36	R	SMR-2 (-)
38	B	SMR-1 (-)
40	L	AMDS-L

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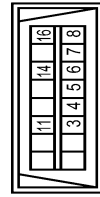
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

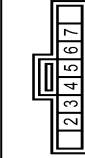
## IGNITION POWER SUPPLY

Connector No.	M24
Connector Name	DATA LINK CONNECTOR
Connector Type	BD316FW



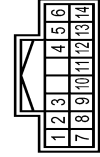
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	-
2	B	-
3	B	-
4	B	-
5	B	-
6	L	-
7	V	-
8	S	-
9	S	-
10	S	-
11	S	-
12	S	-
13	S	-
14	S	-
15	Y	-
16	Y	-

Connector No.	M29
Connector Name	WARNING SYSTEMS SWITCH
Connector Type	TK08F6Y



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

Connector No.	M33
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



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

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
7	B	GROUND
8	G	IGN

Connector No.	M45
Connector Name	LANE DEPARTURE WARNING BUZZER
Connector Type	NS04FBK-CS



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

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP->METER)
5	B	GROUND
6	P	ALTERNATOR SIGNAL
7	BR	AIR BAG SIGNAL
10	G	SECURITY SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
19	B	ILL GRND
20	R	ILL
21	RG	IGNITION SIGNAL
22	B	GROUND
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	R	COMMUNICATION SIGNAL (AMP->LCD)
26	R	PARALLEL CHARGE SIGNAL (SUS)
27	V	PARKING BRAKE SWITCH SIGNAL

28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL SWITCH SIGNAL
33	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP/ABR RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (1)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (2)

Connector No.	M67
Connector Name	UNIFIED METER AND A/C AMP.
Connector Type	TH23FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	ACC POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	BG	SUNLOAD SENSOR SIGNAL
47	G	EXHAUST GAS / OUTSIDE OXYGEN SENSOR SIGNAL
53	G	IGNITION POWER SUPPLY
54	Y	BATTERY POWER SUPPLY
55	B	GROUND
56	L	CAN-H
57	W	BRAKE FLUID LEVEL SWITCH SIGNAL
58	BR	FUEL LEVEL SENSOR GROUND
59	GR	INTAKE SENSOR GROUND
60	L	IN-VEHICLE SENSOR GROUND
61	BR	AMBIENT SENSOR GROUND
62	SB	SUNLOAD SENSOR GROUND
63	R	-
65	RG	EVY SIGNAL
69	L	A/C CAN SIGNAL
70	R	EACH DOOR MOTOR POWER SUPPLY
71	B	GROUND
72	P	CAN-L

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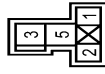
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

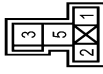
## IGNITION POWER SUPPLY

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	M502FL-M2-LC



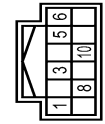
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-
3	R	-
5	BG	-

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	M502FL-M2-LC



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

Connector No.	M408
Connector Name	POWER STEERING CONTROL UNIT
Connector Type	1H12FW-NH



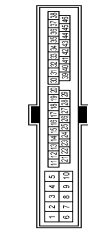
Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	EPS SOL+
3	G	IGN
5	B	EPS SOL-
6	B	GROUND
8	L	VEHICLE SPEED(2P)
10	R	ENG TACFD

Connector No.	M409
Connector Name	BLOWER MOTOR
Connector Type	M503FW-M3



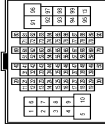
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	P	-
3	B	-

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	1K36AW-NS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	P	-
3	L	-
4	R	-
5	B	-
9	R	-
10	R	-
15	BG	-
19	B	-
20	BR	-
26	BR	-
27	LG	-
31	W	-
33	B	-
34	B	-
35	L	-
36	P	-
37	Y	-
38	G	-
43	P	-
44	L	-
45	BR	-
46	BG	-

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	1H80AW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	G	-
3	GR	-
4	SB	-
7	W	-
10	W	-
15	SB	-
19	BR	-
26	BR	-
27	LG	-
31	Y	-
34	Y	-
35	V	-
36	R	-
37	BR	-
38	G	-
51	R	-
52	L	-
55	W	-
56	B	-
57	R	-
58	G	-
59	SHIELD	-
60	V	-
61	LG	-
62	BR	-
63	L	-
64	LG	-
65	B	-
66	R	-
67	W	-
68	SHIELD	-
69	Y	-
70	Y	-
71	SB	-

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# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## IGNITION POWER SUPPLY

Terminal No.	Color	Wire	Signal Name [Specification]
72	W	G	IGNITION SW INPUT 1
73	G	Y	IGNITION SW INPUT 2
75	W	V	IGNITION SW INPUT 3
80	V	R	IGNITION SW INPUT 4
81	S8	Y	IGNITION SW INPUT 5
82	V	P	IGNITION SW INPUT 6
83	P	R	IGNITION SW INPUT 7
84	R	L	IGNITION SW INPUT 8
85	L	R	IGNITION SW INPUT 9
86	B6	Y	IGNITION SW INPUT 10
87	L	L	IGNITION SW INPUT 11
88	P	P	IGNITION SW INPUT 12
91	V	V	IGNITION SW INPUT 13
92	G	G	IGNITION SW INPUT 14
94	G	W	IGNITION SW INPUT 15
95	W	W	IGNITION SW INPUT 16
96	G	G	IGNITION SW INPUT 17
97	S	S	IGNITION SW INPUT 18
98	BR	Y	IGNITION SW INPUT 19
99	Y	Y	IGNITION SW INPUT 20
100	L	L	IGNITION SW INPUT 21
100	S8	S8	IGNITION SW INPUT 22

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FB-LC



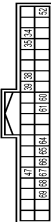
Terminal No.	Color	Wire	Signal Name [Specification]
1	W	W	BAT (F/L)
2	W	W	POWER WINDOW POWER SUPPLY(BAT)
3	Y	Y	POWER WINDOW POWER SUPPLY(BAP)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color	Wire	Signal Name [Specification]
4	LG	L	INTERIOR ROOM LAMP POWER SUPPLY
5	L	L	PASSENGER DOOR UNLOCK OUTPUT
7	Y	Y	STEP LAMP CONT
8	V	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	Y	REAR DOOR UNLOCK OUTPUT
11	B	B	REAR DOOR UNLOCK OUTPUT
12	B	B	REAR DOOR UNLOCK OUTPUT
13	B	B	REAR DOOR UNLOCK OUTPUT
14	W	W	PUSH-BUTTON LIGHT/DOWN SW ILL GND
15	Y	Y	ACC I/O
17	W	W	TURN SIGNAL RH (FRONT)
18	B6	B6	TURN SIGNAL LH (FRONT)
19	V	V	INT ROOM LAMP CONT

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4DFG*WH



Terminal No.	Color	Wire	Signal Name [Specification]
24	S8	S8	LUGGAGE ROOM ANTI-
25	V	V	LUGGAGE ROOM ANTI-
28	B	B	BACK DOOR ANTI-
29	W	W	BACK DOOR ANTI-
31	W	W	IGN RELAY (F/B) CONT
32	S8	S8	STARTER RELAY CONT
33	BR	BR	PUSH SW

61	W	W	BACK DOOR OPENER REQUEST SW
64	V	V	I-KEY WARN BUZZER (ENG ROOM)
65	B6	B6	REAR WIPER STOP POSITION
66	R	R	BACK DOOR SW
67	GR	GR	BACK DOOR OPENER SW
68	BR	BR	REAR RH DOOR SW
69	R	R	REAR LH DOOR SW

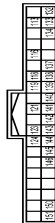
Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4DFB-NH



Terminal No.	Color	Wire	Signal Name [Specification]
72	R	R	ROOM ANTI-
73	G	G	ROOM ANTI-
74	S8	S8	ROOM ANTI-
75	GR	GR	PASSENGER DOOR ANTI-
76	V	V	DRIVER DOOR ANTI-
77	LG	LG	DRIVER DOOR ANTI-
78	Y	Y	ROOM ANTI-
79	BR	BR	ROOM ANTI+
80	GR	GR	ROOM ANTI+
81	W	W	NATS ANT AMP.
82	R	R	NATS ANT AMP.
83	Y	Y	IGN RELAY (F/B) CONT
84	Y	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	BR	COMBI SW INPUT 5
88	V	V	COMBI SW INPUT 3
90	P	P	CAN-L
91	L	L	CAN-H
92	LG	LG	KEY SLOT ILL CONT
93	V	V	ON I/O
94	Y	Y	FUDDLE LAMP CONT
95	B6	B6	ACC RELAY CONT
96	GR	GR	AT SHIFT SELECTOR POWER SUPPLY
99	R	R	SHIFT P
100	G	G	PASSENGER DOOR REQUEST SW
101	S8	S8	DRIVER DOOR REQUEST SW
102	B6	B6	BELOW WINDOW DEFOSGER RELAY CONT
103	LG	LG	KEYLESS RECEIVER POWER SUPPLY
107	GS	GS	COMBI SW INPUT 1

108	R	R	COMBI SW INPUT 4
109	Y	Y	COMBI SW INPUT 2
110	G	G	HAZARD SW

Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH4DFG-NH



Terminal No.	Color	Wire	Signal Name [Specification]
113	Y	Y	DRIVEN SENSOR
114	S8	S8	STOP LAMP SW
115	B	B	STOP LAMP SW 2
119	S8	S8	DR DOOR UNLOCK SENSOR
121	BR	BR	KEY SLOT SW
122	W	W	IGN F/R
123	W	W	PASSENGER DOOR SW
124	LG	LG	POWER WINDOW SW COMM
132	BR	BR	PUSH-BUTTON IGNITION SW ILL POWER
133	W	W	LOCK I/O
134	GR	GR	RECEIVER/SENSOR GND
137	B6	B6	RECEIVER/SENSOR GND
138	Y	Y	RECEIVER/SENSOR POWER SUPPLY
139	L	L	TIRE PRESSURE RECEIVER COMM
140	GR	GR	SHIFT N/P
141	G	G	SECURITY I/O LAMP CONT
142	B6	B6	COMBI SW OUTPUT 5
143	P	P	COMBI SW OUTPUT 1
144	G	G	COMBI SW OUTPUT 2
145	L	L	COMBI SW OUTPUT 3
146	S8	S8	COMBI SW OUTPUT 4
150	LG	LG	DRIVER DOOR SW
151	G	G	REAR WINDOW DEFOSGER RELAY CONT

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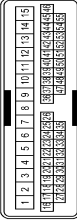
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]


## IGNITION POWER SUPPLY

Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	1H40MW-CS15

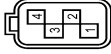


Terminal No.	Color Of Wire	Signal Name [Specification]
7	Y	-
8	LG	-
9	Y	-
12	L	-
13	V	-
14	B	-
15	W	-
16	BR	-
17	B	-
18	R	-
19	B	-
20	W	-
20	Y	[Without ROSE audio] - (IMR ROSE audio)
21	G	[Without ROSE audio] - (IMR ROSE audio)
22	S8	[Without ROSE audio] - (Without ROSE audio)
23	GR	-
24	G	-
25	Y	-
26	R	-
29	SHIELD	-
30	W	-
31	LG	-
32	G	-
33	BR	-
34	V	-
35	G	-
43	L	-
44	Y	-
45	R	-
46	W	-
52	R	-
53	G	-
54	W	-
55	RG	-


Connector No.	M134
Connector Name	WIRE TO WIRE
Connector Type	1H24MW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	BR	-
4	B	-
5	R	-
6	V	-
7	B	-
8	B	-
9	B	-
10	W	-
11	W	-
12	W	-
13	W	-
14	W	-
15	W	-
16	P	-
17	B	-
18	L	-
19	Y	-
20	L	-




Connector No.	M143
Connector Name	MAN RATE / SIDE G SENSOR
Connector Type	AAZ04FB-S




Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	B	RG-T
3	S8	RG-T

Connector No.	M147
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK28FY-EXSC




Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	IGN
2	B	GROUND
3	Y	DR2 (+)
4	Y	DR1 (+)DR2 (+)
5	Y	AS2 (-)
6	Y	AS1 (-)
7	Y	ECES (-)
8	S8	ECES (-)
11	V	-
12	V	-
15	BR	AIR BAG W/L
16	SHIELD	GROUND
18	R	CUTOFF TILT/AL
21	L	CAN-H
24	G	SEAT BELT
45	Y	DR2 (+)
46	P	CAN-L
47	Y	AS2 (-)
48	Y	AS2 (-)
49	L	ODS INPUT

Connector No.	M160
Connector Name	IONIZER
Connector Type	1H04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGN
2	R	-
3	B	GROUND
4	L	IGN ON/OFF

Connector No.	M170
Connector Name	WIRE TO WIRE
Connector Type	1H04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	R	-
3	BR	-
4	B	-
5	S8	-
6	GR	-
7	V	-
8	BR	-
9	B	-
13	W	-
14	W	-
15	Y	-
16	P	-
17	L	-
18	G	-
19	G	-

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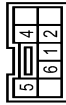
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

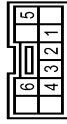
## IGNITION POWER SUPPLY

Terminal No.	20	R	-
Connector No.	M176		
Connector Name	SNOW MODE SWITCH		
Connector Type	TK08FW		



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	B	-
4	B	-
5	B	-
6	SB	-

Connector No.	M177
Connector Name	HEATED SEAT SWITCH (DRIVER SEAT)
Connector Type	TK10FW



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

Connector No.	M178
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FB



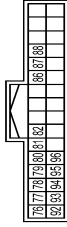
Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	GR	-
3	R	-
4	W	-
5	W	-
6	B	-

Connector No.	M186
Connector Name	[C] WARNING CHIME
Connector Type	J403FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
3	W	-

Connector No.	M204
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)
79	SB	AV COMM (H)
80	P	CAN-L
81	B	CAN-H
82	B	SHIELD
86	SHIELD	SHIELD
87	SHIELD	SHIELD
88	P	TEL VOICE SIGNAL (L)
89	P	TEL VOICE SIGNAL (H)
92	R	VEHICLE SPEED SIGNAL (R-PULSE)
93	V	PARKING BRAKE SIGNAL
94	BG	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	Y	DISK EJECT SIGNAL

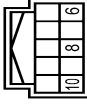
Connector No.	M210
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
85	V	PARKING BRAKE SIGNAL
87	G	COMPOSITE IMAGE SIGNAL GND
88	SHIELD	COMPOSITE IMAGE SIGNAL
89	SHIELD	IMAGE SIGNAL
72	R	MICROPHONE VCC

73	R	COMM (CONT->DISP)
74	P	CAN-L
75	LG	AV COMM (L)
76	LG	AV COMM (L)
79	R	ILLUMINATION
80	G	IGNITION SIGNAL
81	BG	REVERSE SIGNAL
82	R	VEHICLE SPEED SIGNAL (R-PULSE)
83	SHIELD	SHIELD
87	G	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	G	COMM (DISP->CONT)
90	L	CAN-H
91	SB	AV COMM (H)
92	SB	AV COMM (H)

Connector No.	F3
Connector Name	AUTO ANTI-FAZELING INSIDE MIRROR
Connector Type	TH10FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	IGN
8	B	GROUND
10	G	BAT

JRMWG8160GB

# POWER SUPPLY ROUTING CIRCUIT



< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

A  
B  
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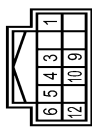

**IGNITION POWER SUPPLY**

Connector No.	RB
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	JAA07FB

Terminal No.	Color Of Wire	Signal Name [Specification]
6	B	-
7	W	-

Connector No.	RB
Connector Name	LANE CAMERA UNIT
Connector Type	TH12FW-SMT

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION
3	R	BUZZER OUTPUT
4	SB	WARNING SYSTEMS ON IND
5	P	CAN-L
6	B	GROUND
9	V	WARNING SYSTEMS SW
10	L	CAN-H
12	B	GROUND

JRMWG8161GB

PG

# POWER SUPPLY ROUTING CIRCUIT

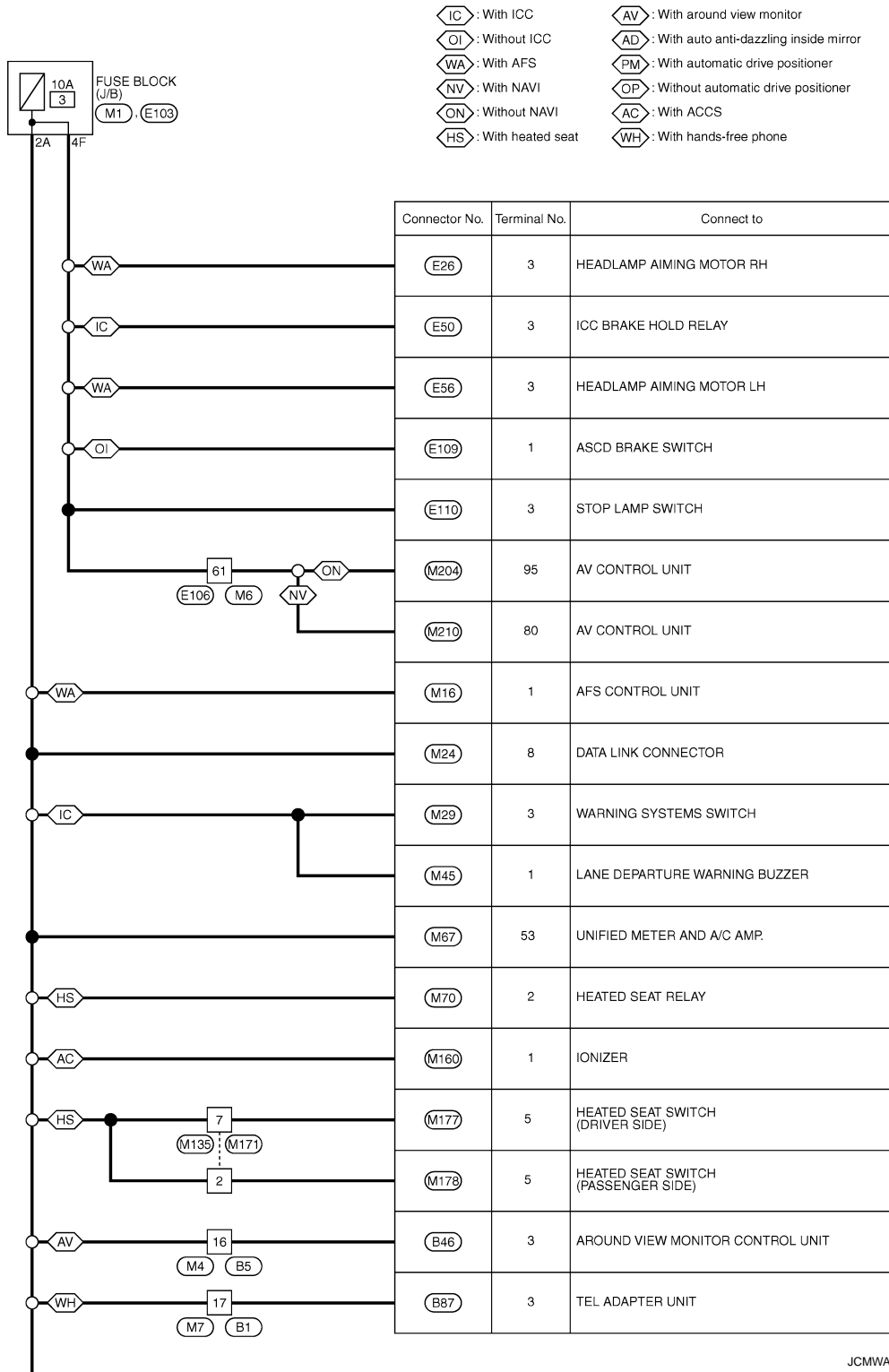
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 3 -

INFOID:000000007458755

### IGNITION POWER SUPPLY FUSE No. 3

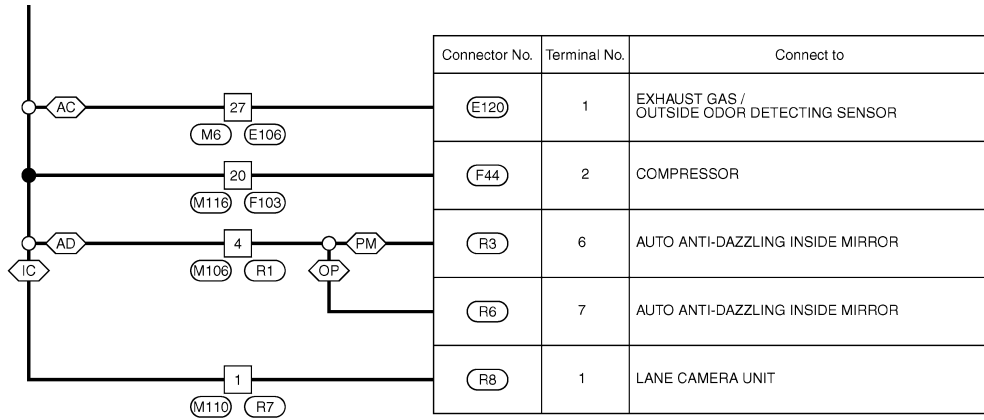


JCMWA6269GB

# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



A  
B  
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E  
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G  
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J  
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PG  
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P

2010/09/21

JCMWA6270GB

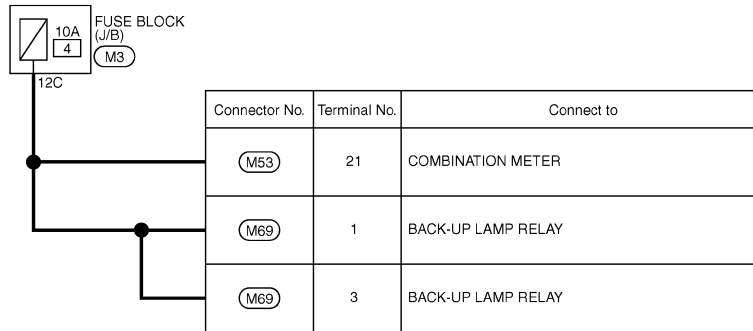
# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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

INFOID:000000007458756



2008/08/28

JCMWA3210GB



# POWER SUPPLY ROUTING CIRCUIT

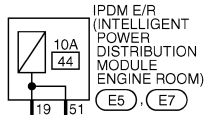
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 44 -

INFOID:000000007458757

### IGNITION POWER SUPPLY FUSE No. 44



IPDM E/R  
(INTELLIGENT  
POWER  
DISTRIBUTION  
MODULE  
ENGINE ROOM)  
(E5) (E7)



Connector No.	Terminal No.	Connect to
(F21)	1	FUEL INJECTOR No. 1
(F22)	1	FUEL INJECTOR No. 2
(F23)	1	FUEL INJECTOR No. 3
(F24)	1	FUEL INJECTOR No. 4
(F25)	1	FUEL INJECTOR No. 5
(F26)	1	FUEL INJECTOR No. 6
(F102)	53	ECM
(M123)	123	BCM (BODY CONTROL MODULE)

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

PG

2009/07/16

JCMWA4934GB

# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

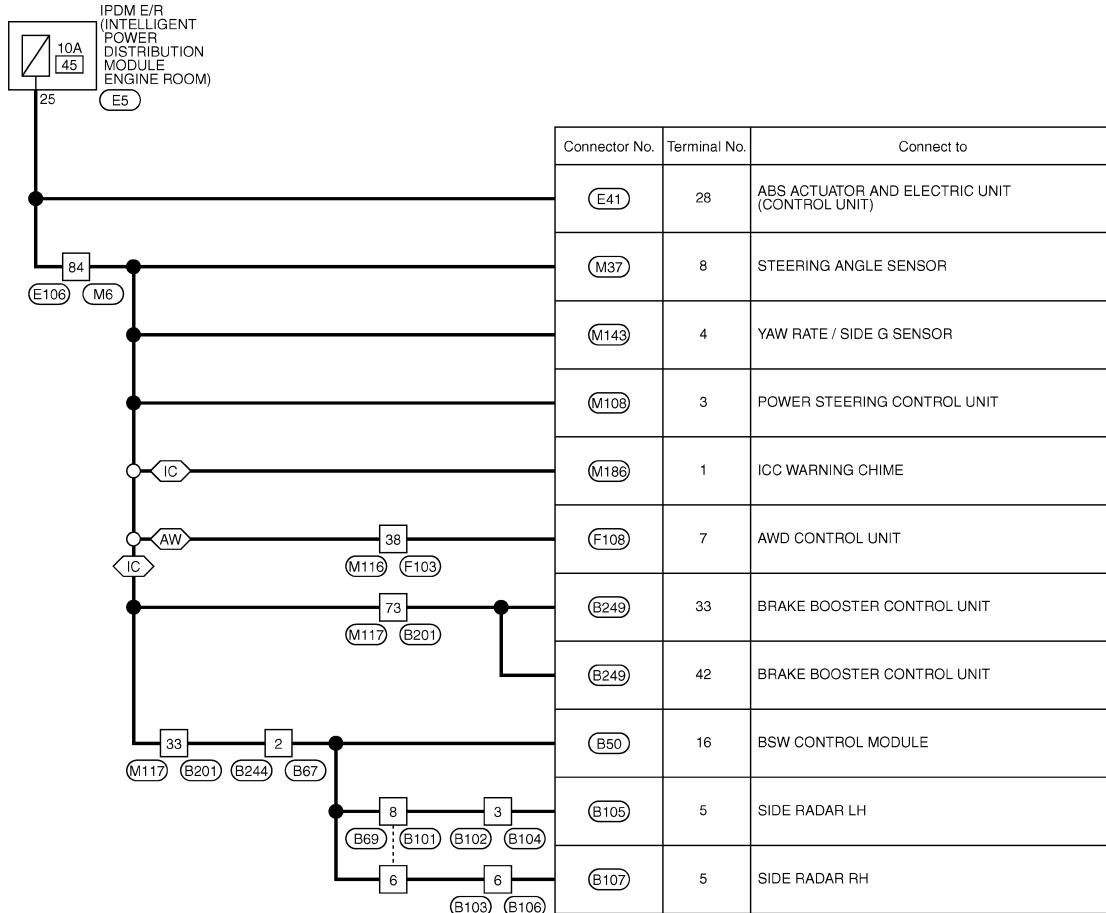
[POWER SUPPLY & GROUND CIRCUIT]

## Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 45 -

INFOID:000000007458758

### IGNITION POWER SUPPLY FUSE No. 45

AW : AWD models  
 IC : With ICC



2010/09/21

JCMWA6284GB

# POWER SUPPLY ROUTING CIRCUIT

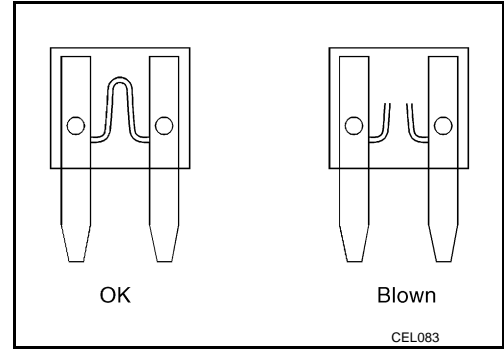
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Fuse

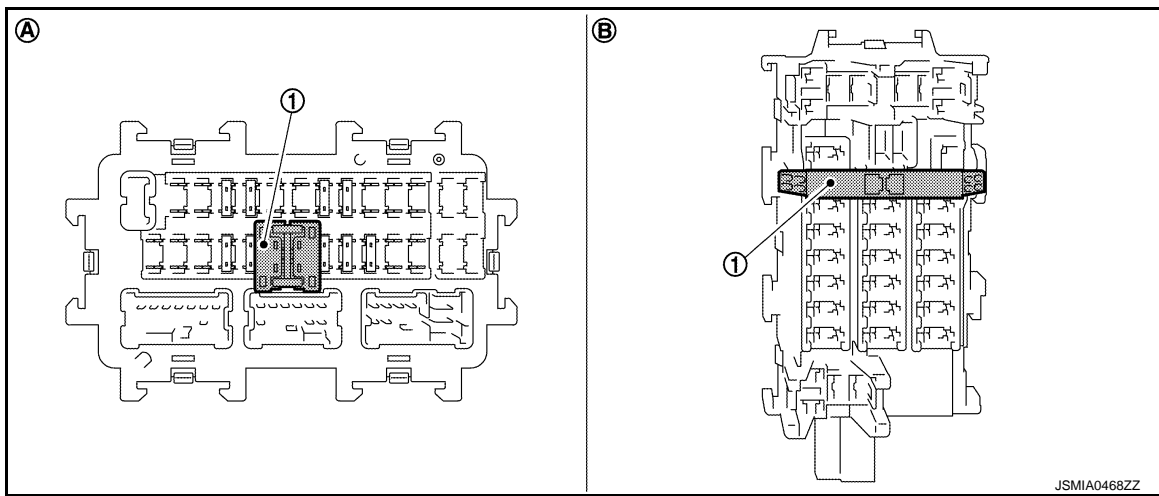
INFOID:000000007458759

- 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 SWITCH (IF EQUIPPED)

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



1. Extended storage switch

A. Type A

B. Type B

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

How To Extended Storage Switch ON/OFF

### CAUTION:

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

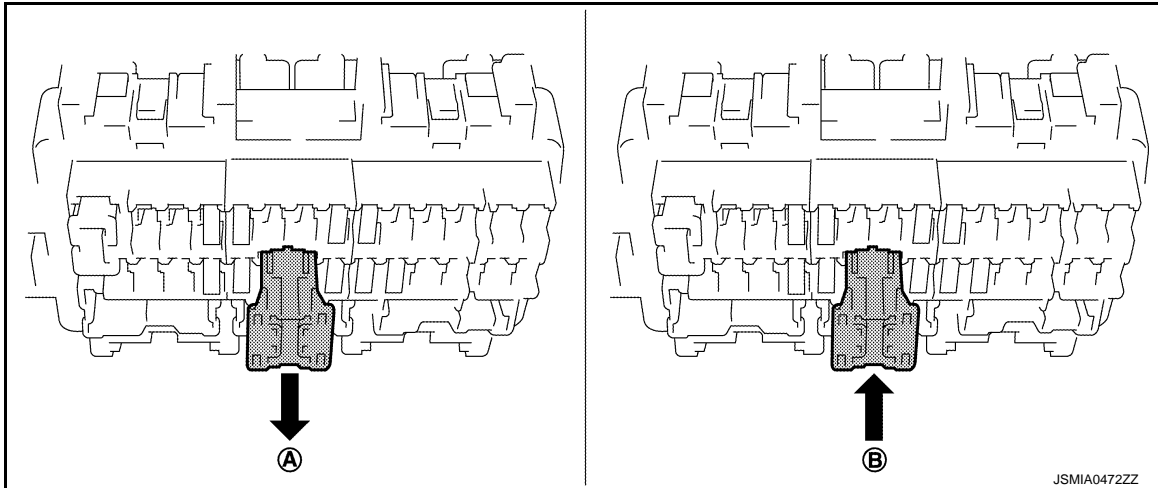
A  
B  
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E  
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G  
H  
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K  
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N  
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P

# POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

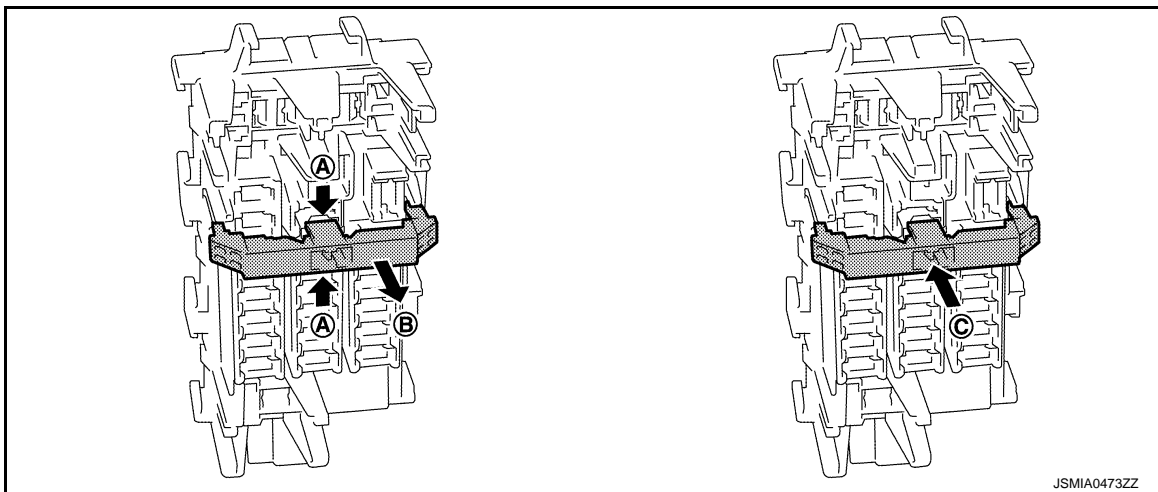
[POWER SUPPLY & GROUND CIRCUIT]

• Type A



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

• Type B

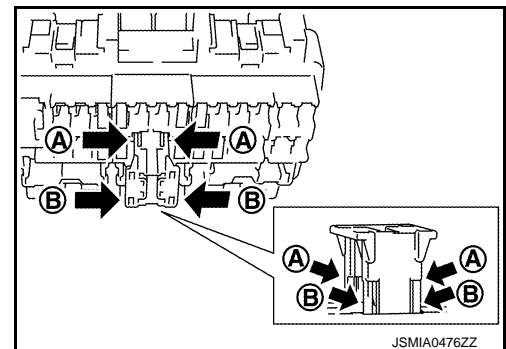


- To turn the extended storage switch OFF, hold (A) of the switch and pull up in (B) direction as shown in the figure.
- To turn the extended storage switch ON, press it in (C) direction as shown in the figure.

### How To Remove Extended Storage Switch

Type A

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



**NOTE:**

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

# POWER SUPPLY ROUTING CIRCUIT

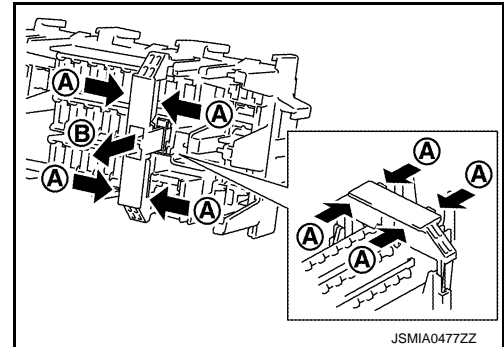
## [POWER SUPPLY & GROUND CIRCUIT]

### < DTC/CIRCUIT DIAGNOSIS >

- Extended storage 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 switch OFF.
3. Hold (A) and pull up the extended storage switch hard in (B) direction.



#### NOTE:

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

### Fusible Link

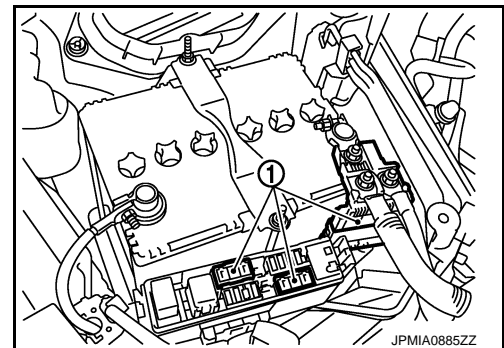
INFOID:000000007458760

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:

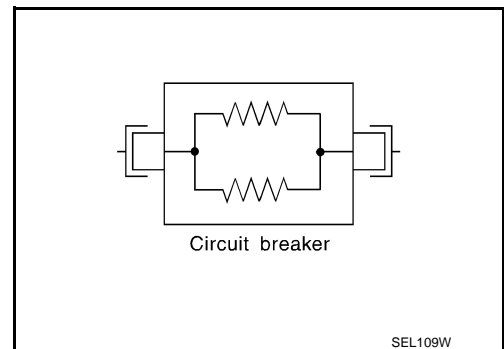
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other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



### Circuit Breaker

INFOID:000000007458761

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.



A  
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L  
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O  
P

# HARNESS LAYOUT

[POWER SUPPLY & GROUND CIRCUIT]

< DTC/CIRCUIT DIAGNOSIS >

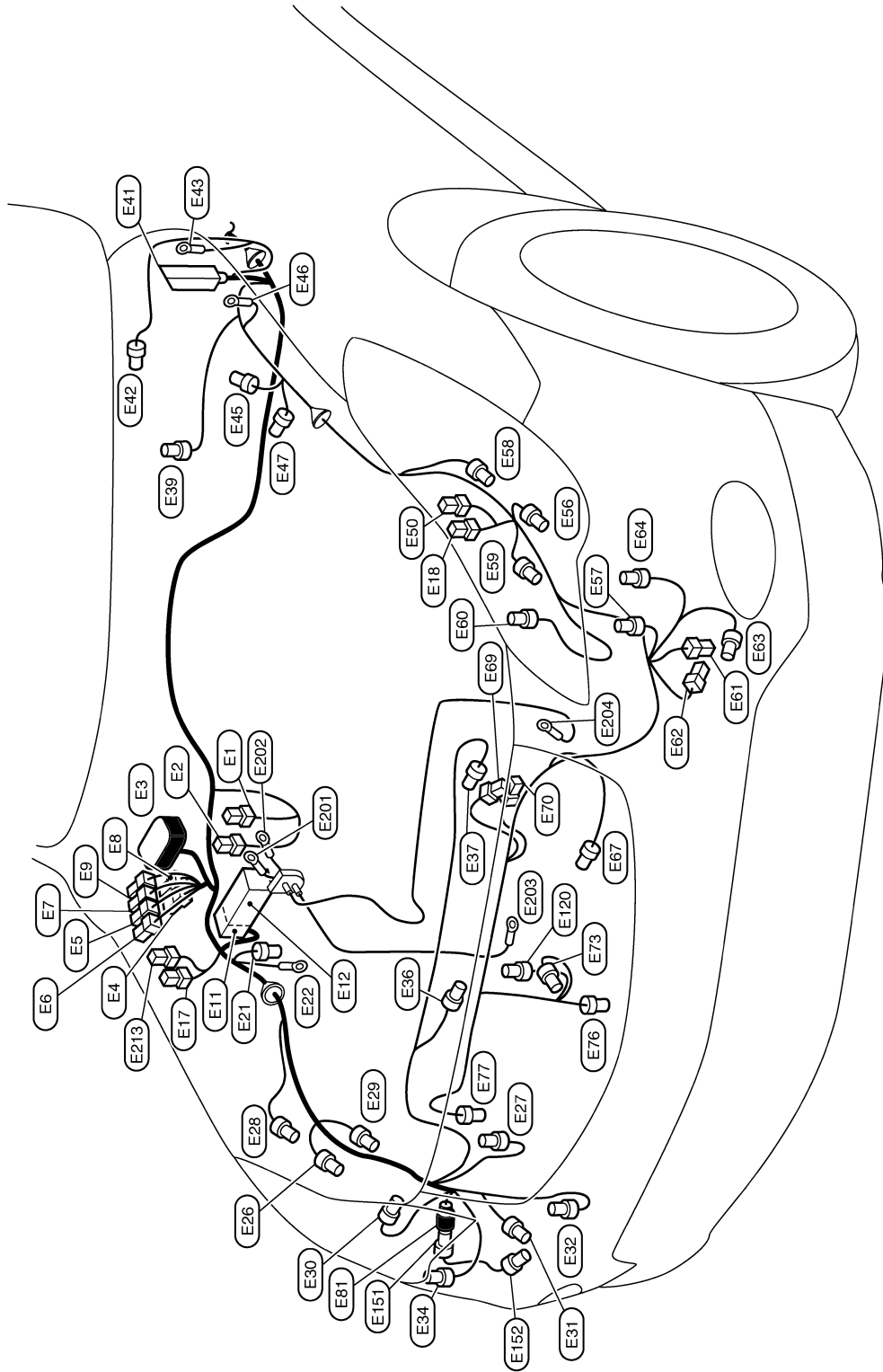
## HARNESS LAYOUT

Engine Room Harness

INFOID:000000007458765

ENGINE COMPARTMENT

ENGINE ROOM HARNESS /  
Engine Compartment



2011/06/24

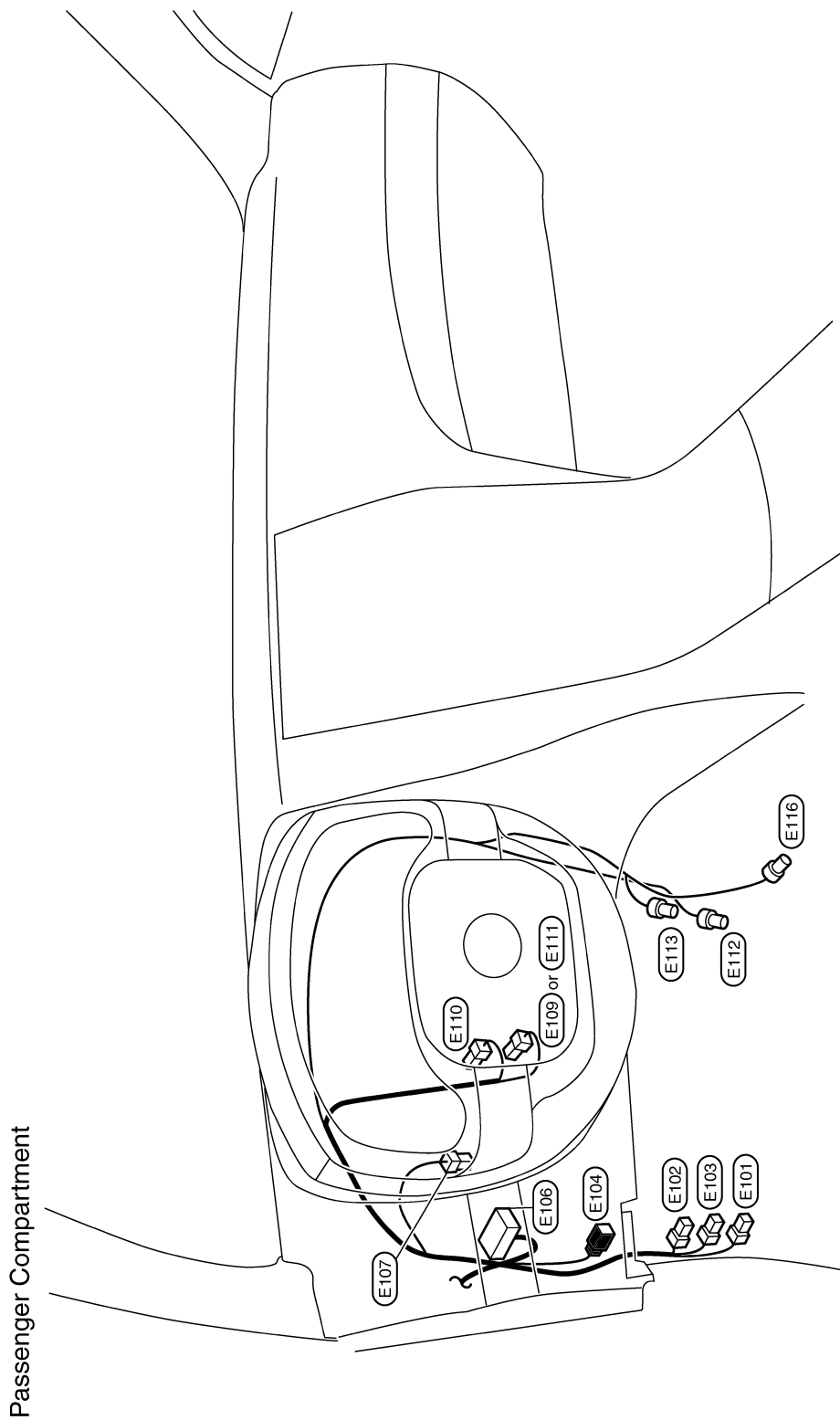
JRMIC0634GB

# HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

PASSENGER COMPARTMENT



Passenger Compartment

A  
B  
C  
D  
E  
F  
G  
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N  
O  
P

2011/06/24

JRMIC0635GB

# HARNESS LAYOUT

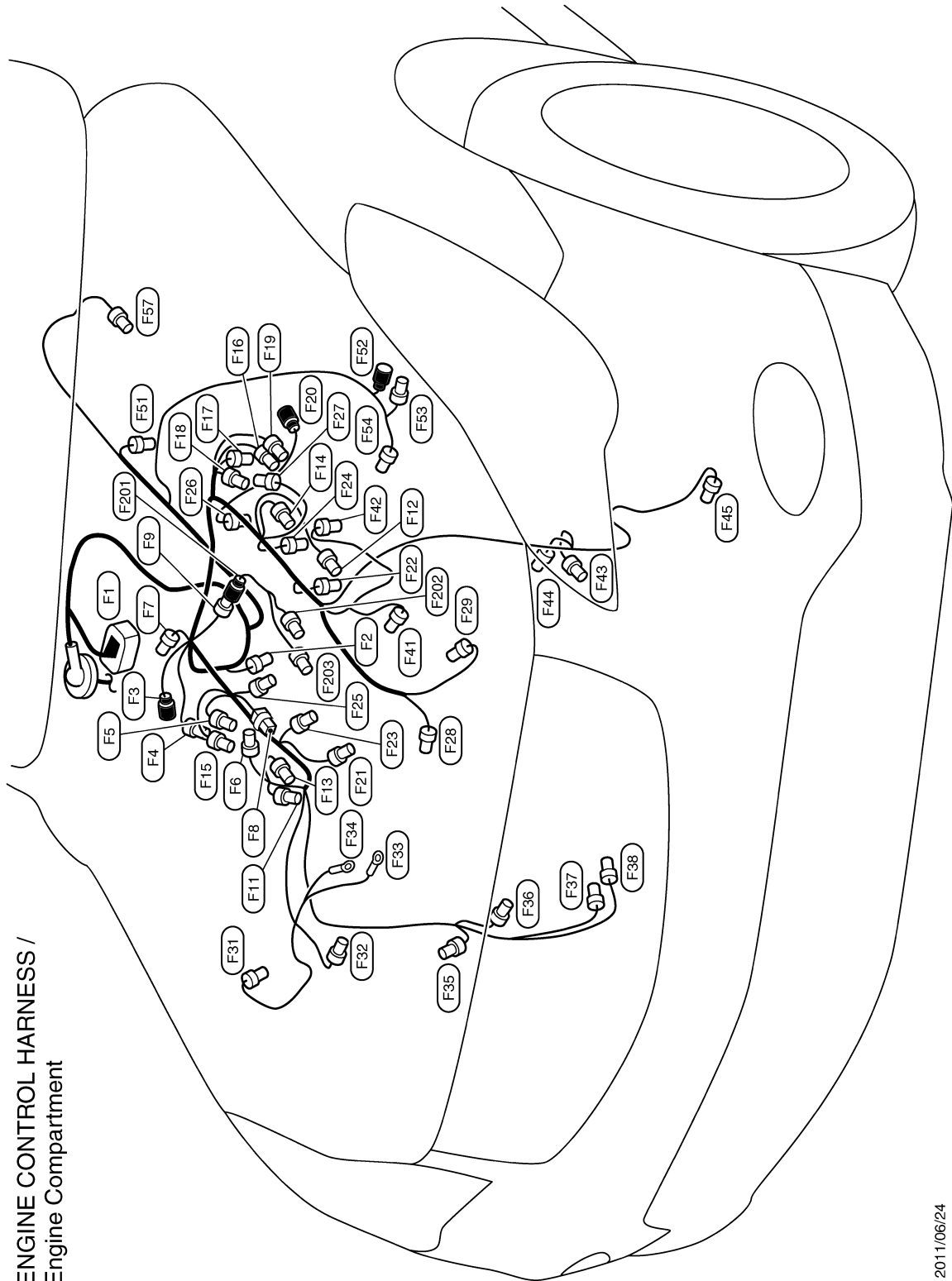
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Engine Control Harness

INFOID:000000007458766

### ENGINE COMPARTMENT



ENGINE CONTROL HARNESS /  
Engine Compartment

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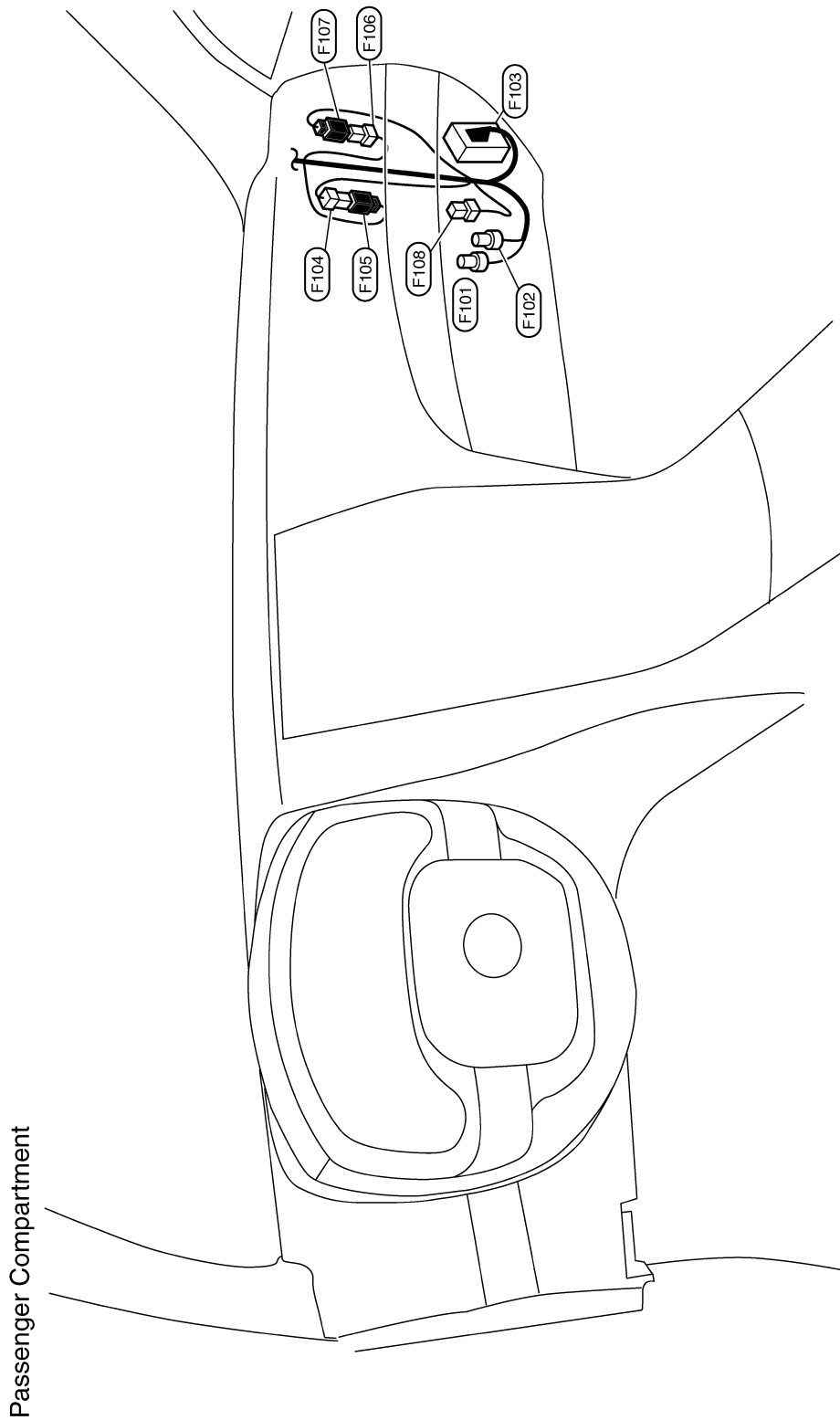


# HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

PASSENGER COMPARTMENT



A  
B  
C  
D  
E  
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K  
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PG  
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P

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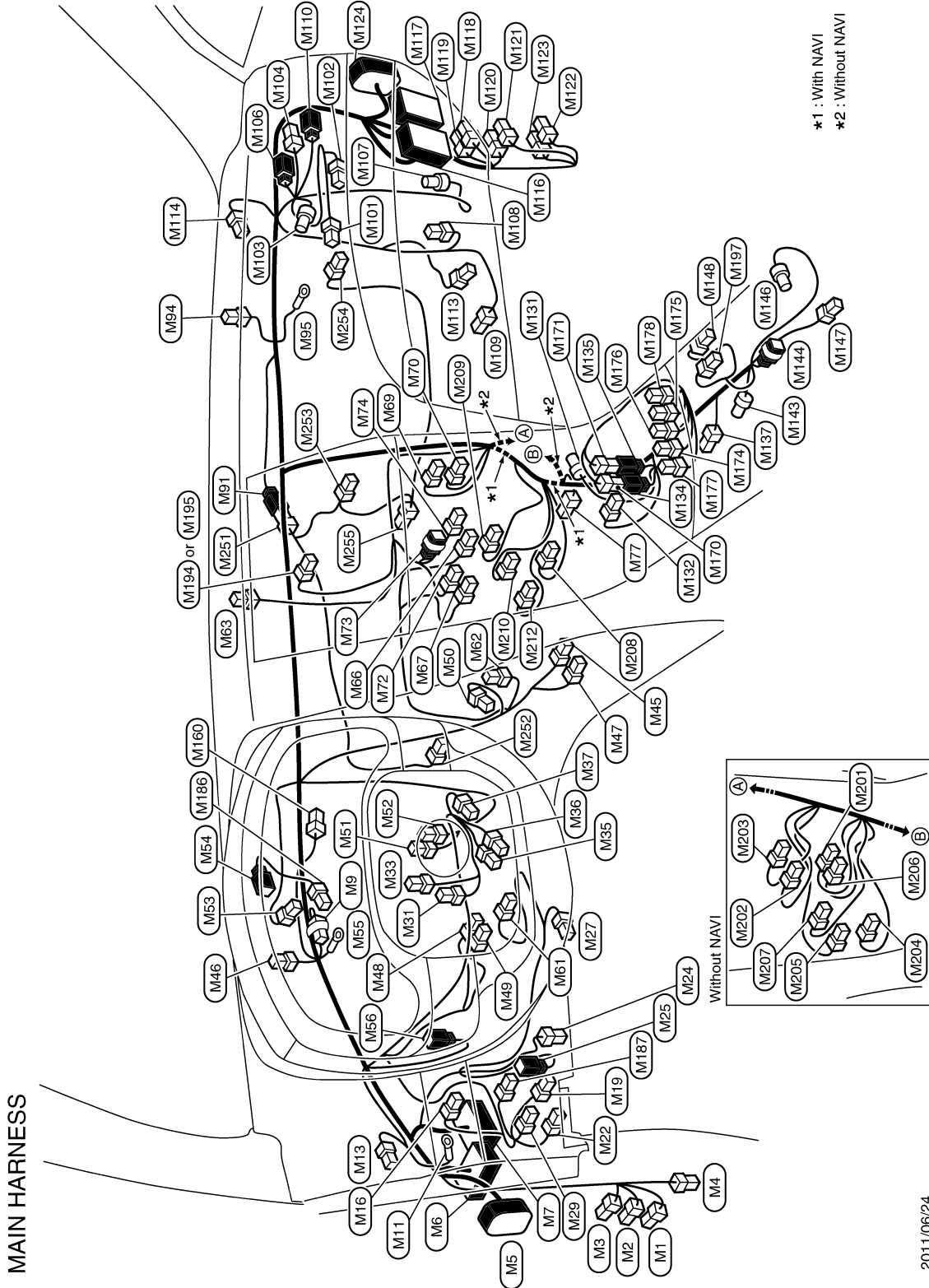
# HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Main Harness

INFOID:000000007458764



2011/06/24

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# HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

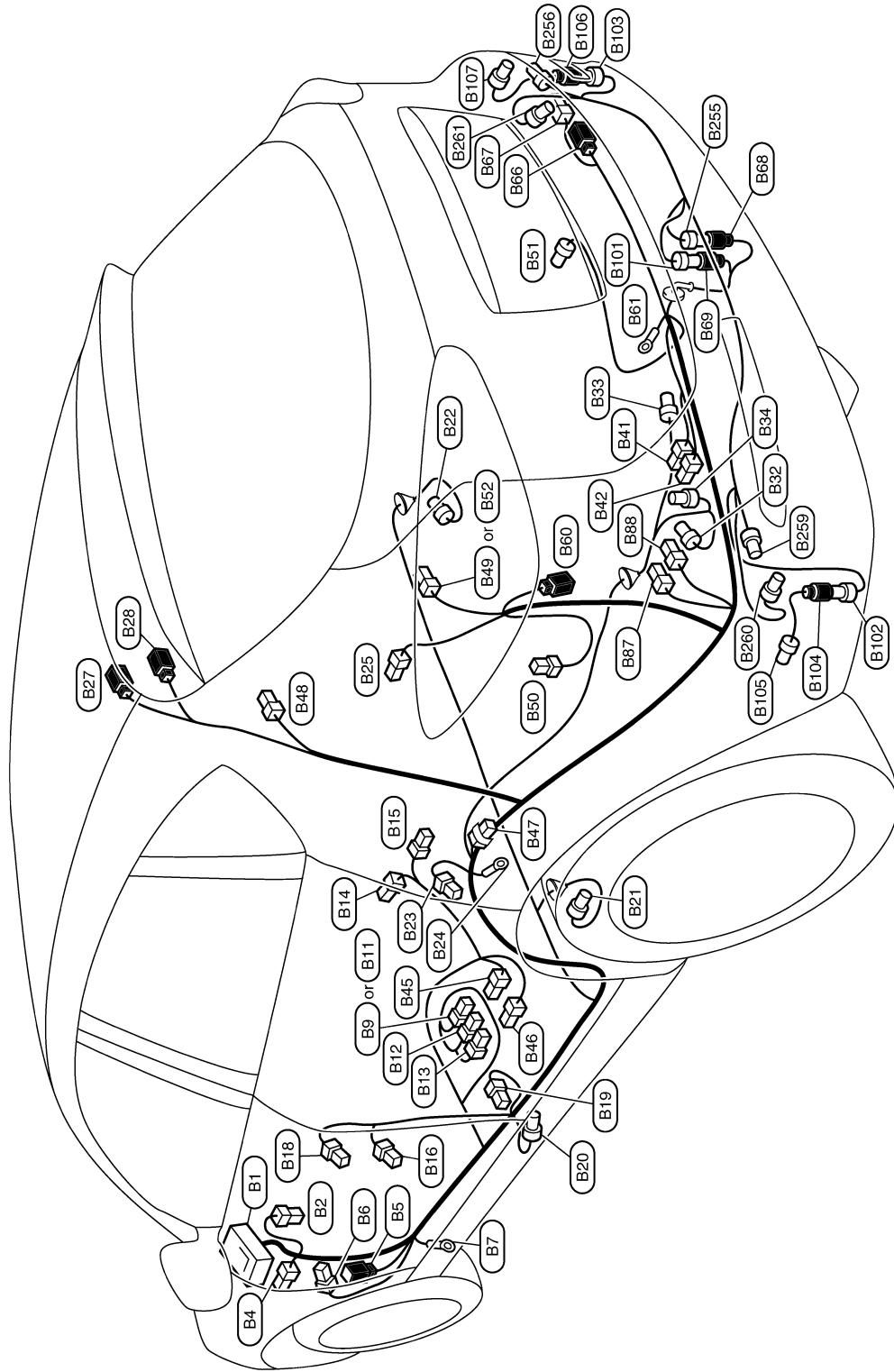
[POWER SUPPLY & GROUND CIRCUIT]

## Body Harness

INFOID:000000007753477

## BODY HARNESS

BODY HARNESS



A  
B  
C  
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E  
F  
G  
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K  
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P

2011/06/24

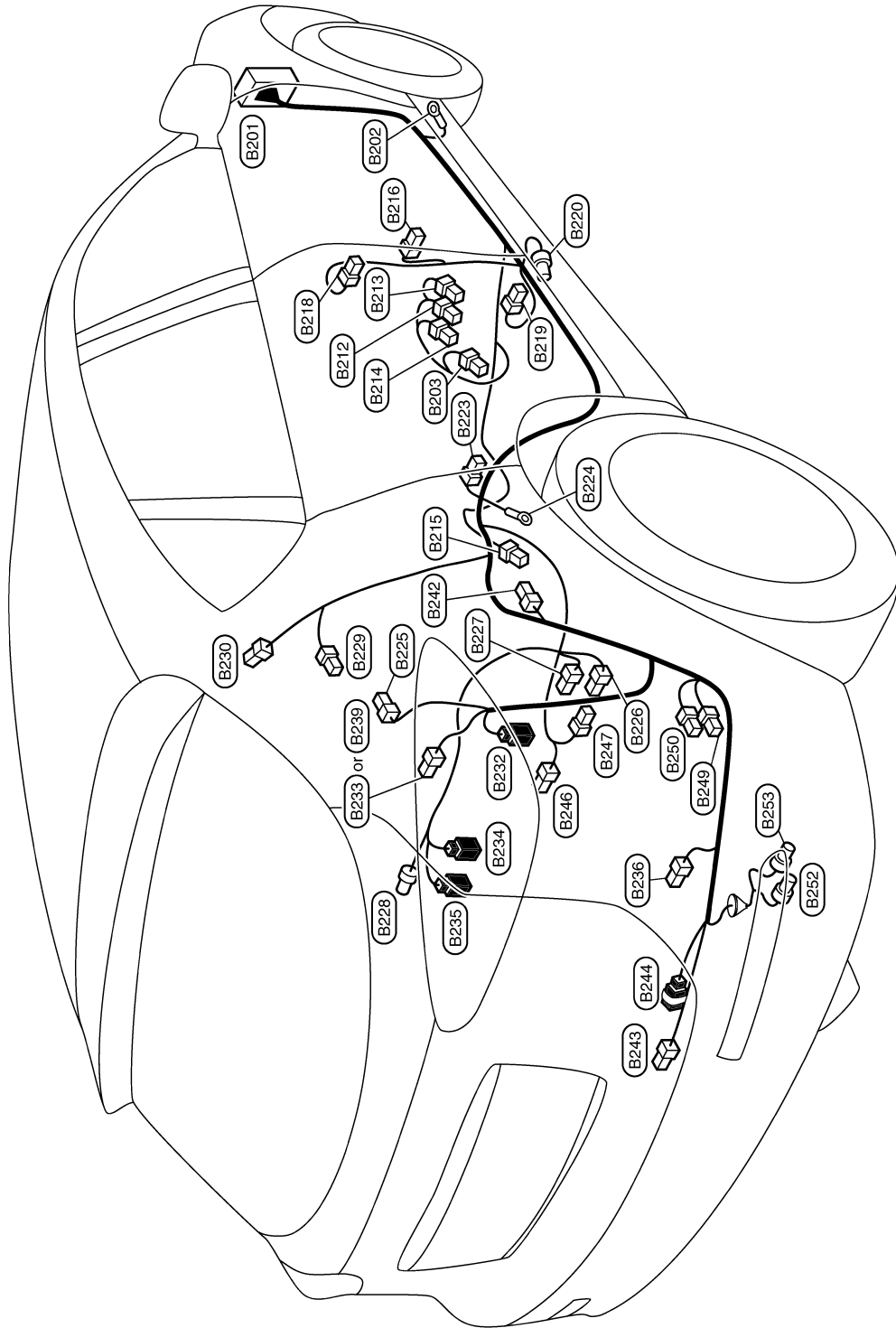
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# HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BODY No. 2 HARNESS



BODY No. 2 HARNESS

2011/06/24

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# HARNES LAYOUT

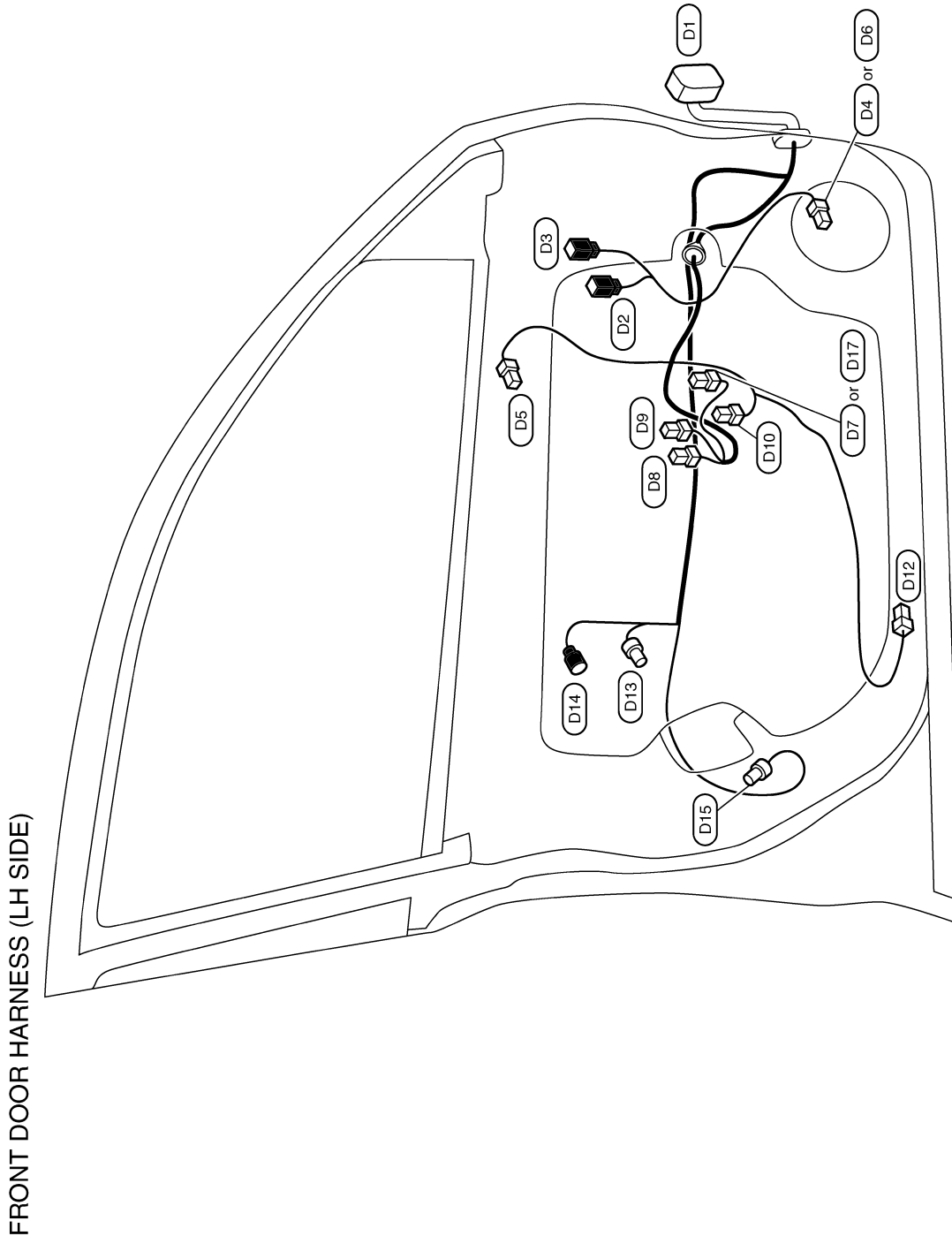
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Door Harness

INFOID:000000007753478

### FRONT DOOR HARNESS (LH SIDE)



FRONT DOOR HARNESS (LH SIDE)

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

PG

2010/09/21

JCMIA0826GB

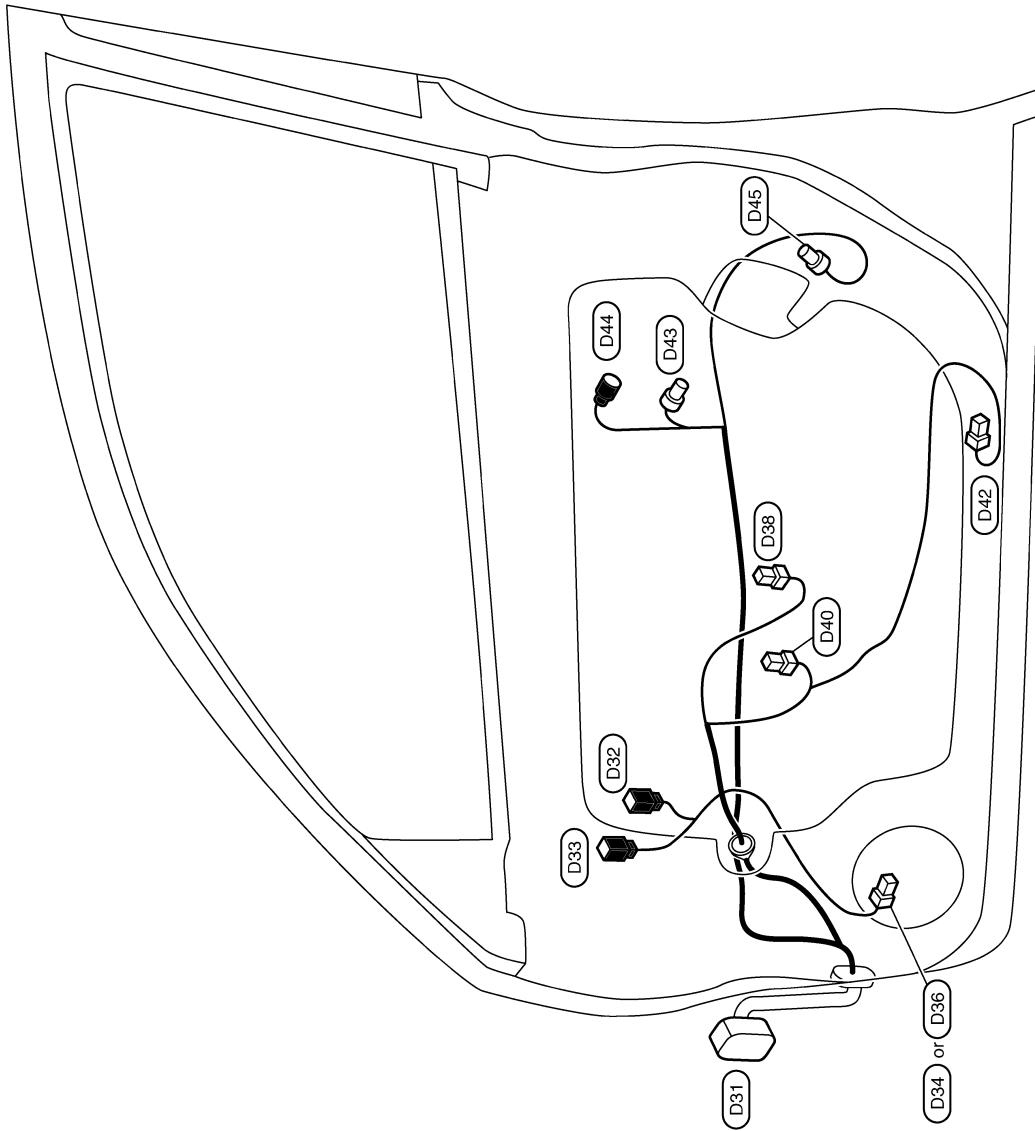
# HARNESS LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## FRONT DOOR HARNESS (RH SIDE)

FRONT DOOR HARNESS (RH SIDE)



2010/09/21

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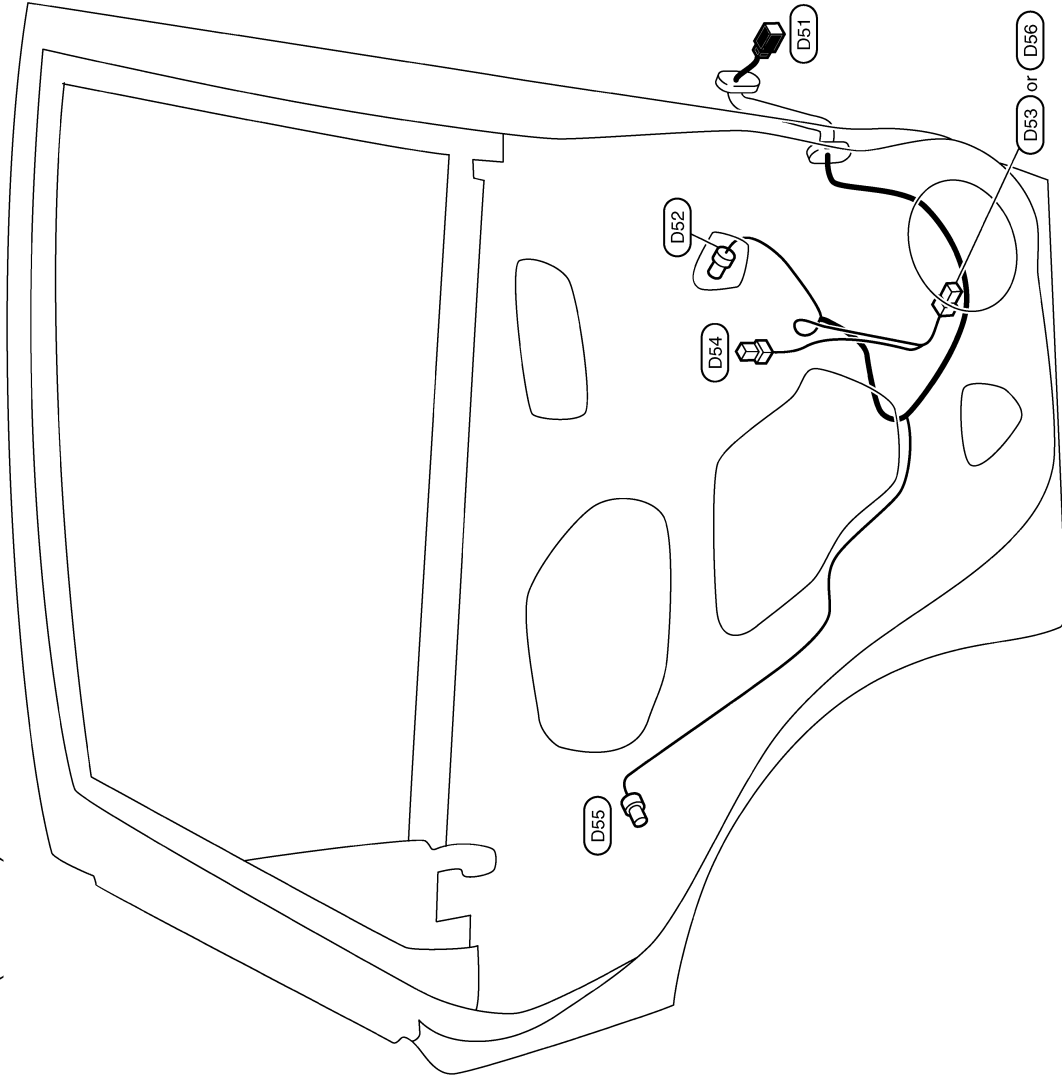
# HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## REAR DOOR HARNESS (LH SIDE)

REAR DOOR HARNESS (LH SIDE)



2011/06/24

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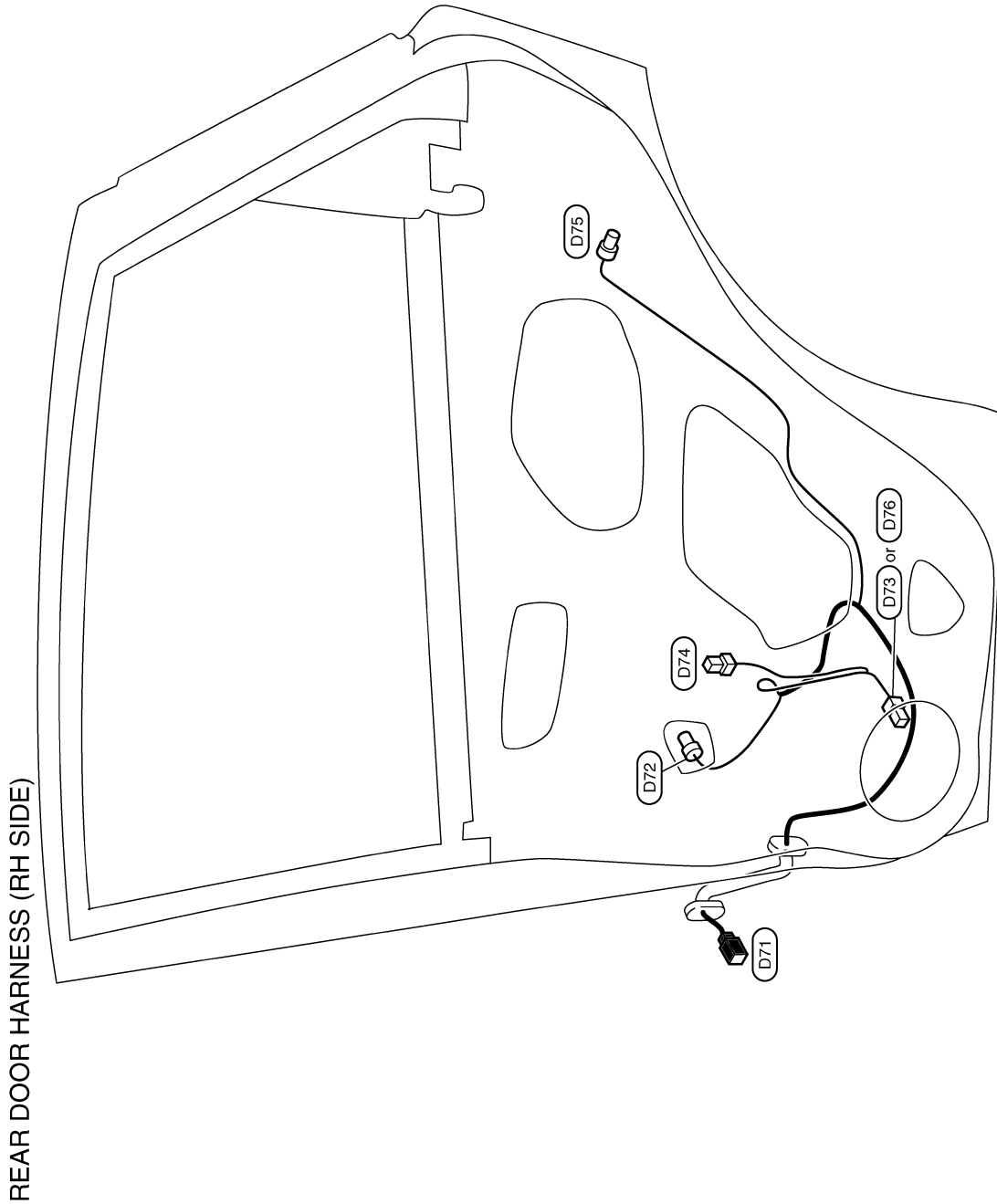
A  
B  
C  
D  
E  
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G  
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I  
J  
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PG  
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P

# HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## REAR DOOR HARNESS (RH SIDE)



REAR DOOR HARNESS (RH SIDE)

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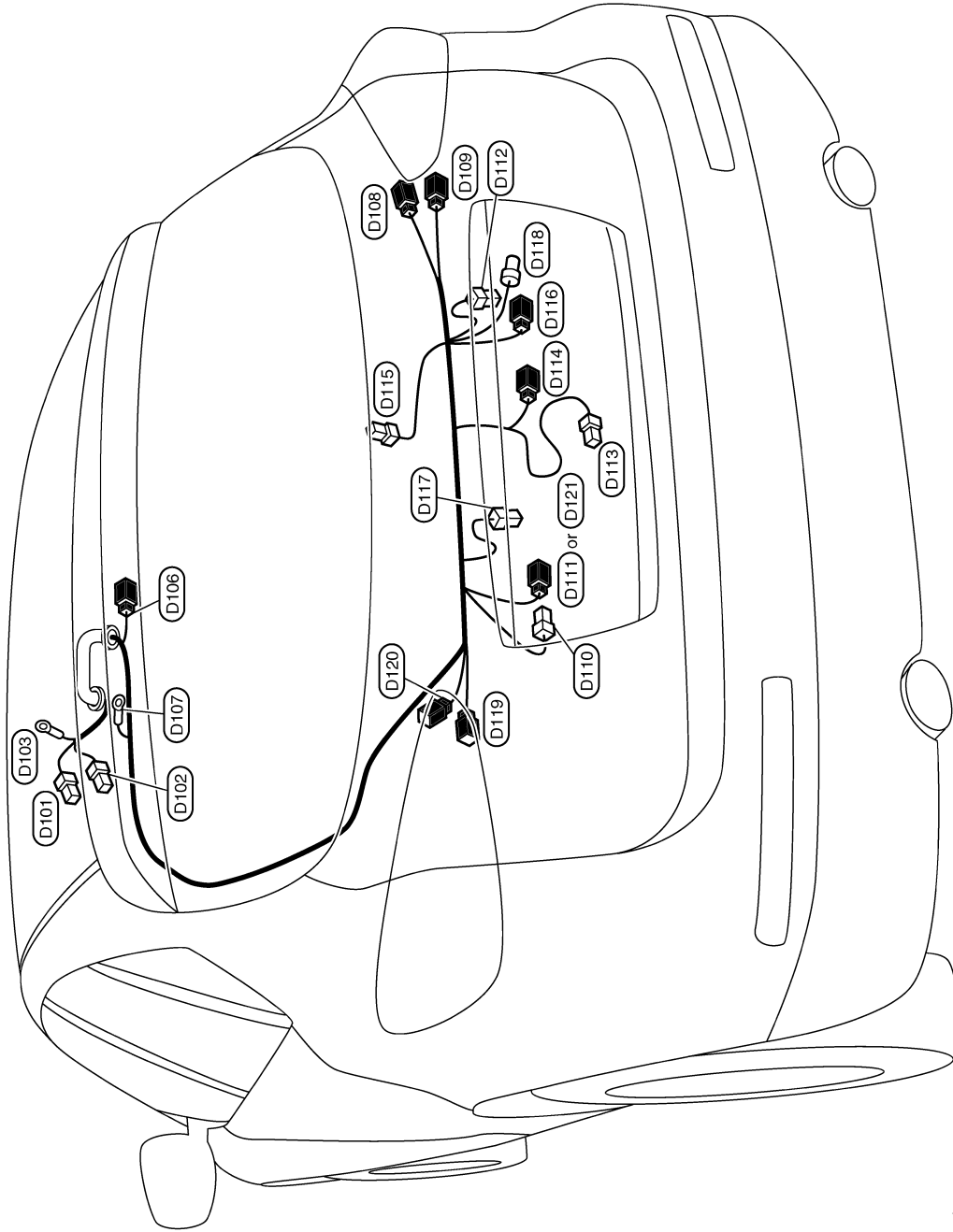
# HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## BACK DOOR HARNESS

BACK DOOR HARNESS



2011/06/24

JRMIC0642GB

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

# HARNES LAYOUT

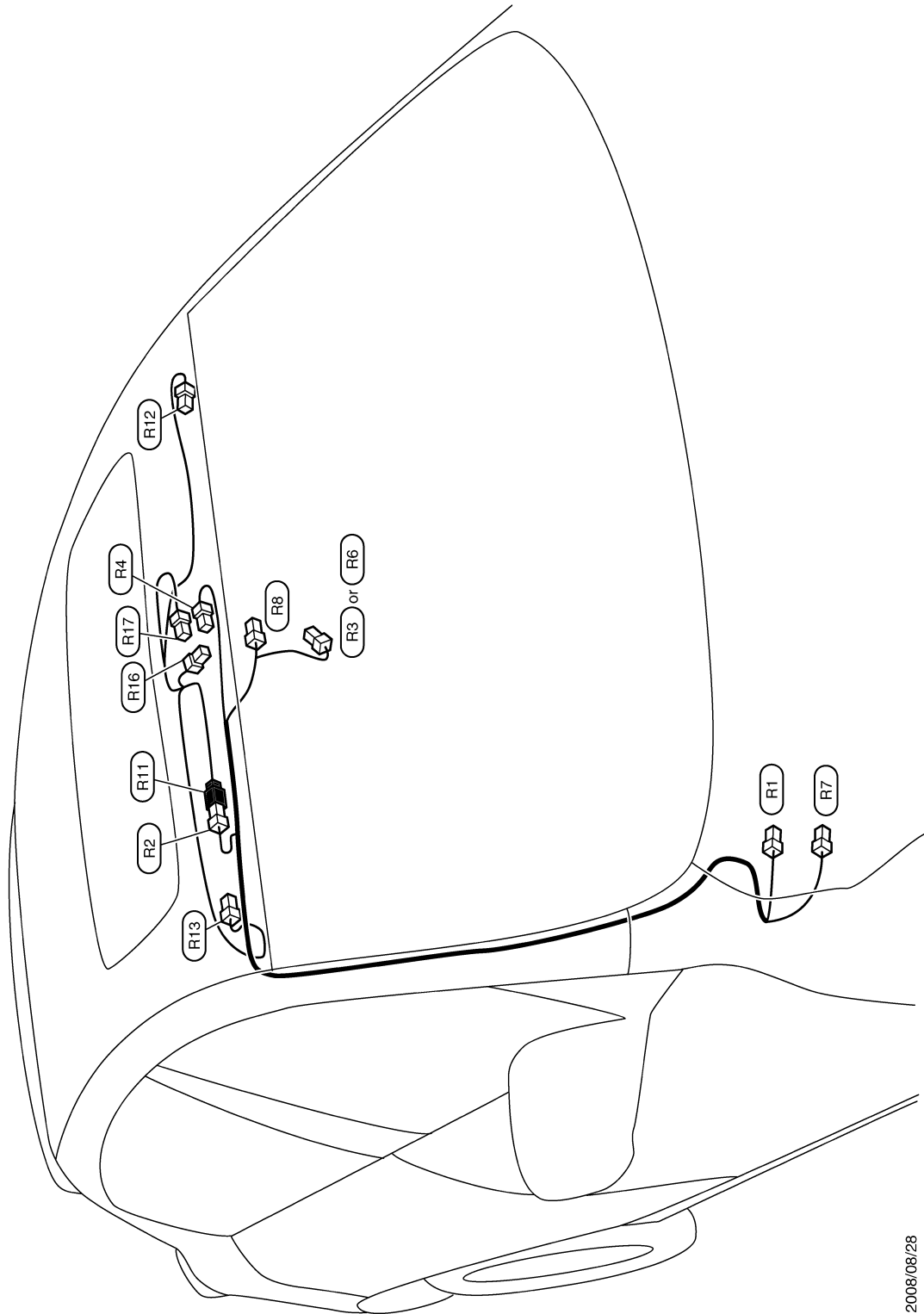
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## Room Lamp Harness

INFOID:000000007753479

ROOM LAMP HARNESS



2008/08/28

JCMIA0448GB

# HARNESS CONNECTOR

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## HARNESS CONNECTOR

### Description

INFOID:000000007458775

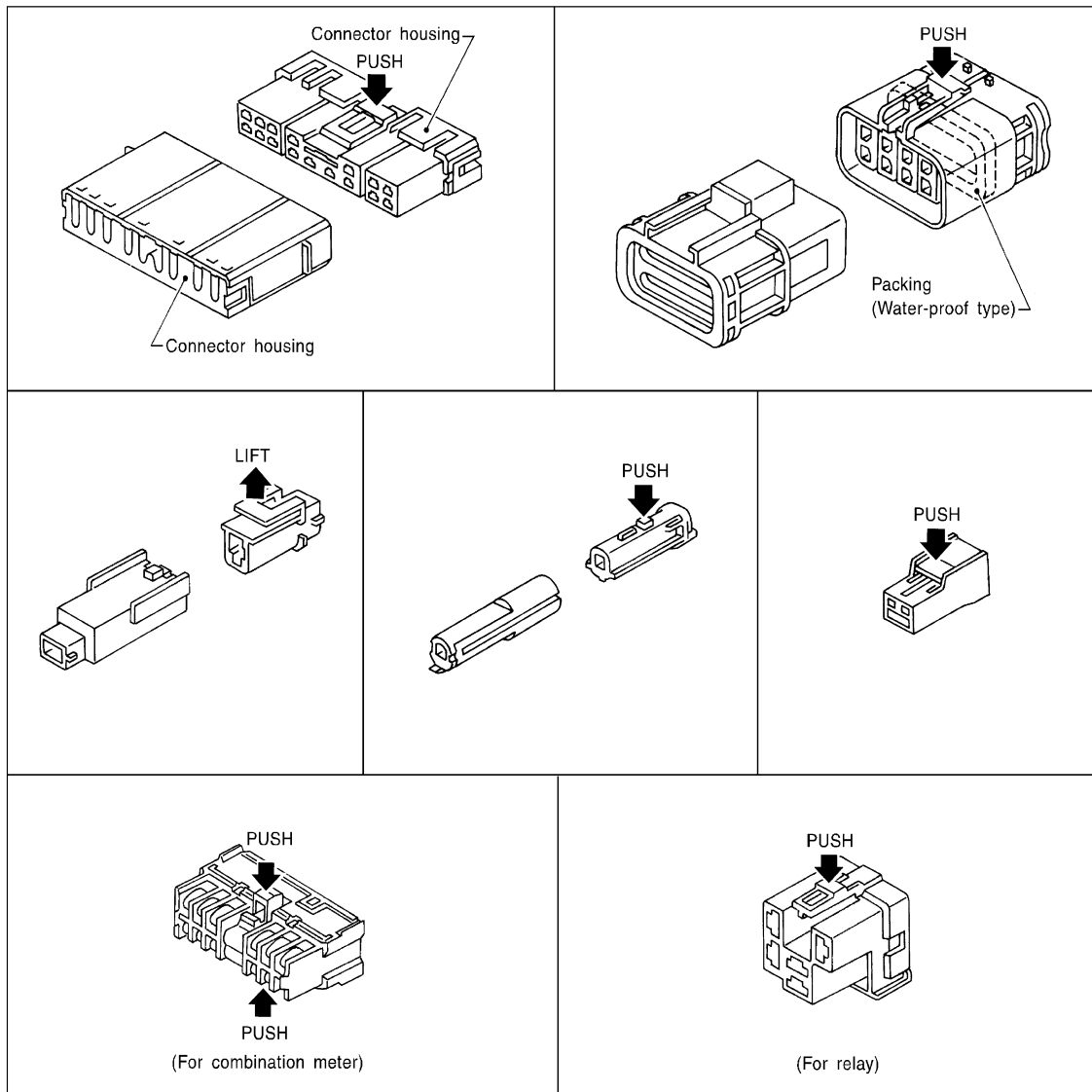
#### HARNESS CONNECTOR (TAB-LOCKING TYPE)

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

#### **CAUTION:**

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

[Example]



SEL769DA

#### HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

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

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

# HARNESS CONNECTOR

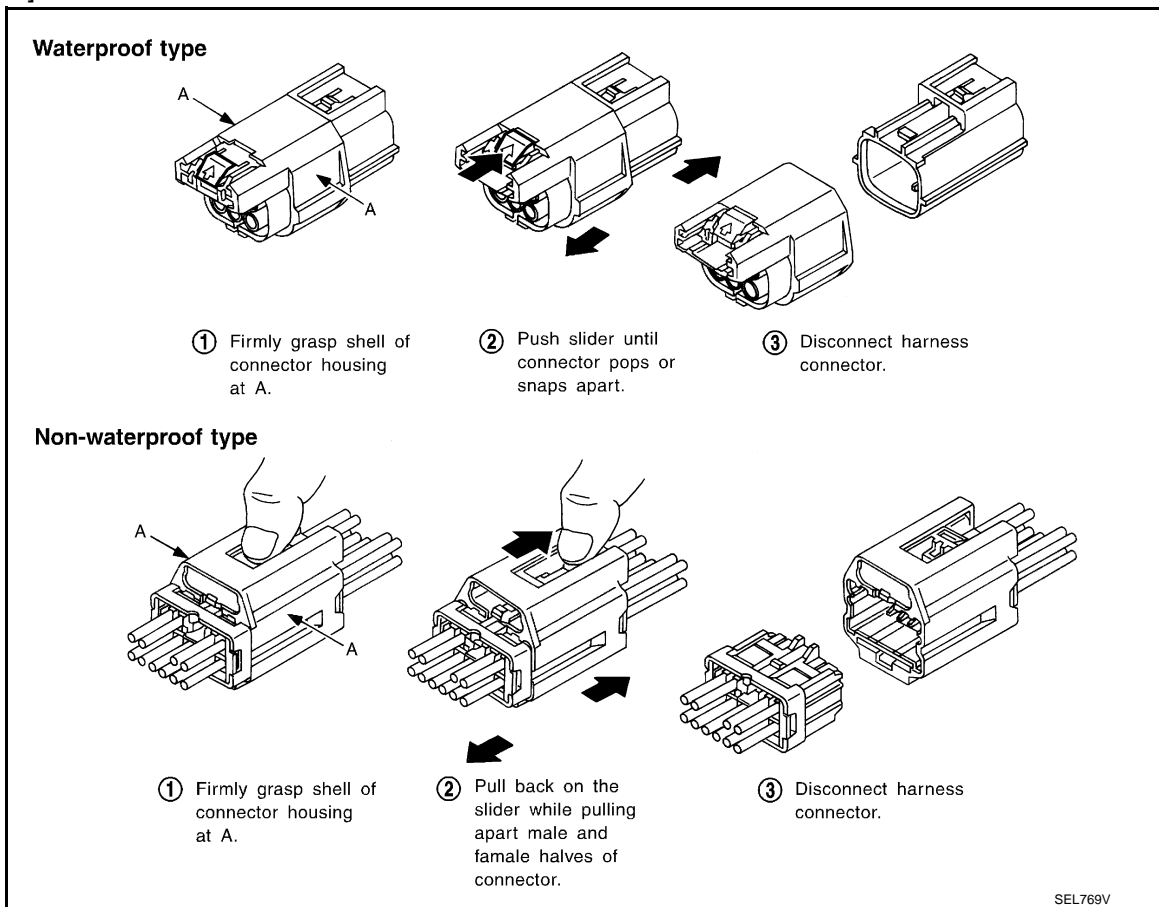
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## CAUTION:

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

[Example]



## HARNESS CONNECTOR (LEVER LOCKING TYPE)

- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked in place by moving the lever as far as it will go to ensure full connection.

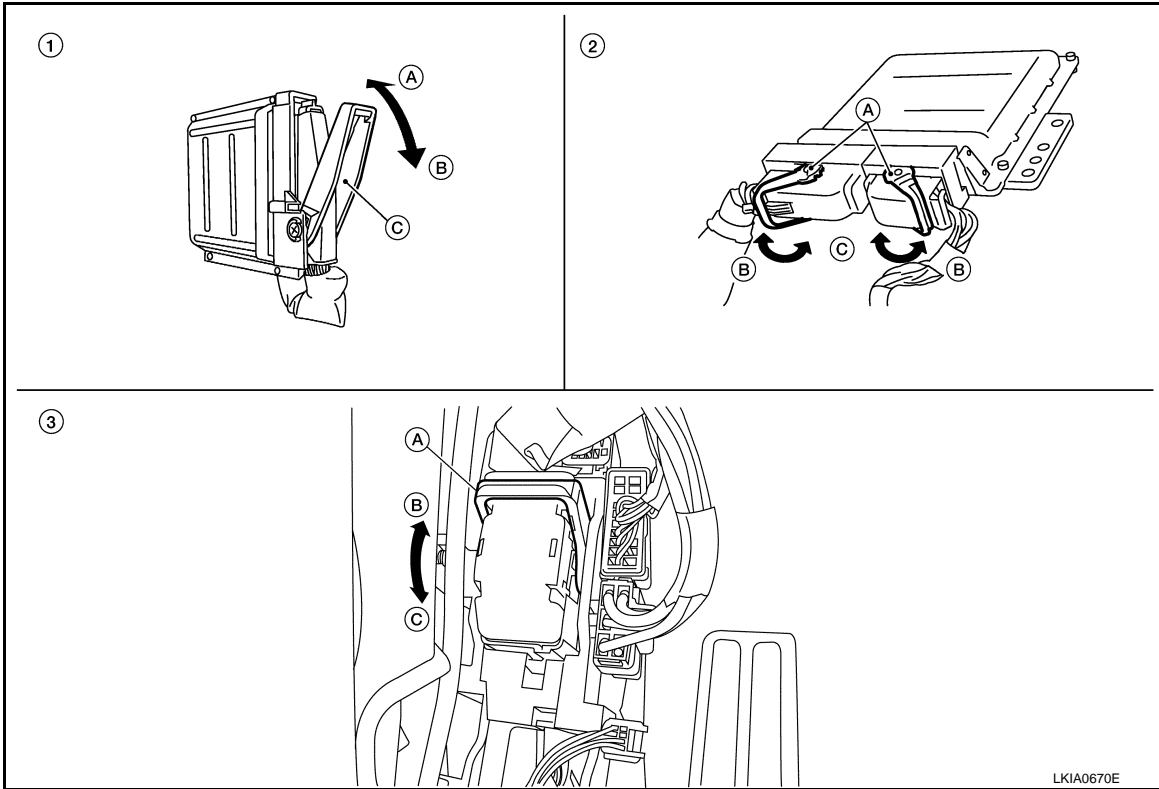
## CAUTION:

# HARNESS CONNECTOR

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Always confirm the lever is fully released (loosened) before attempting to disconnect or connect these connectors to avoid damage to the connector housing or terminals.



1. Control unit with single lever  
A. Fasten  
B. Loosen  
C. Lever

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

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

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

# STANDARDIZED RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

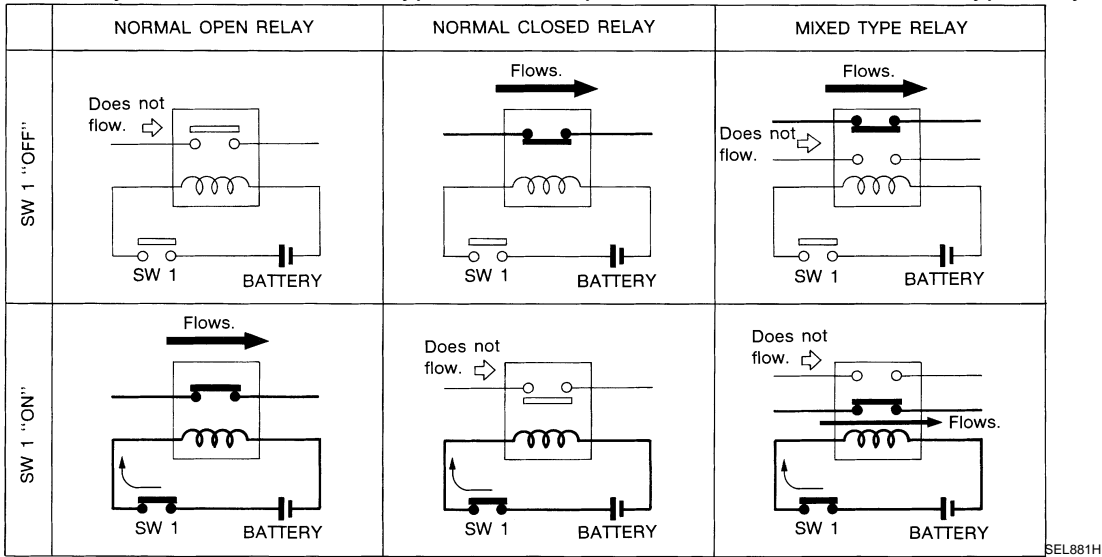
## STANDARDIZED RELAY

### Description

INFOID:000000007458776

### 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

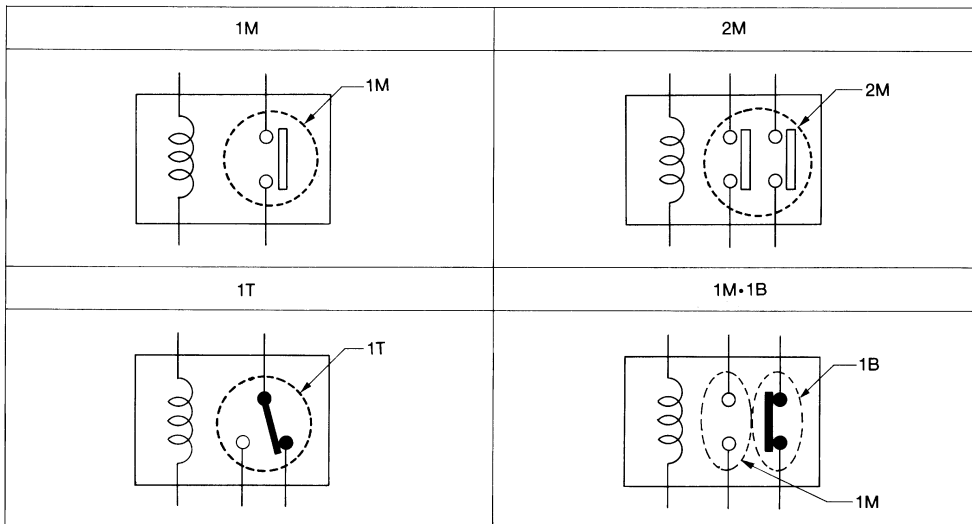
### TYPE OF STANDARDIZED RELAYS

1M ..... 1 Make

2M ..... 2 Make

1T ..... 1 Transfer

1M-1B ..... 1 Make 1 Break

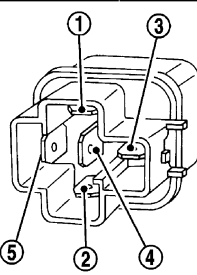
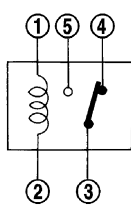
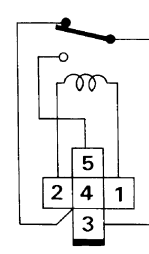
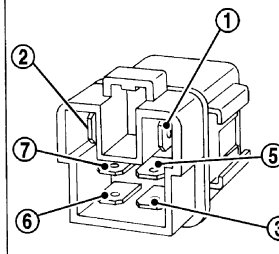
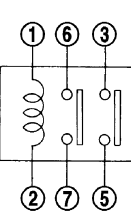
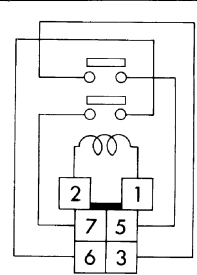
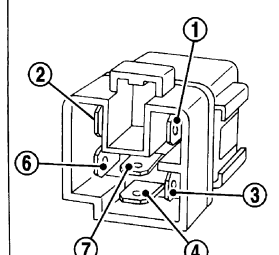
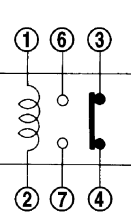
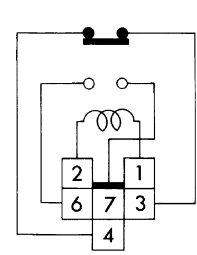
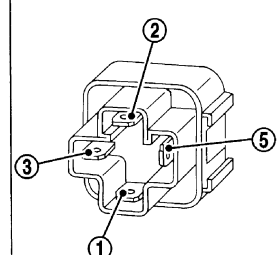
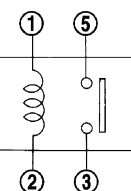
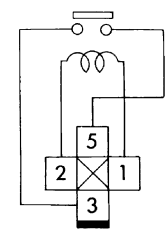
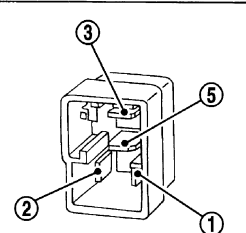
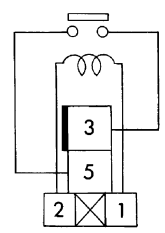


SEL882H

# STANDARDIZED RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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

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

SEL188W

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# FUSE BLOCK - JUNCTION BOX (J/B)

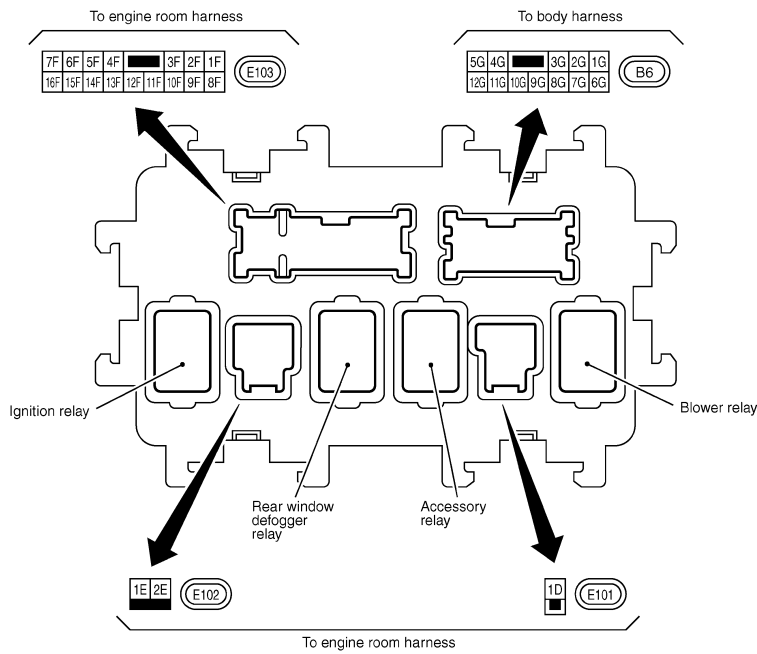
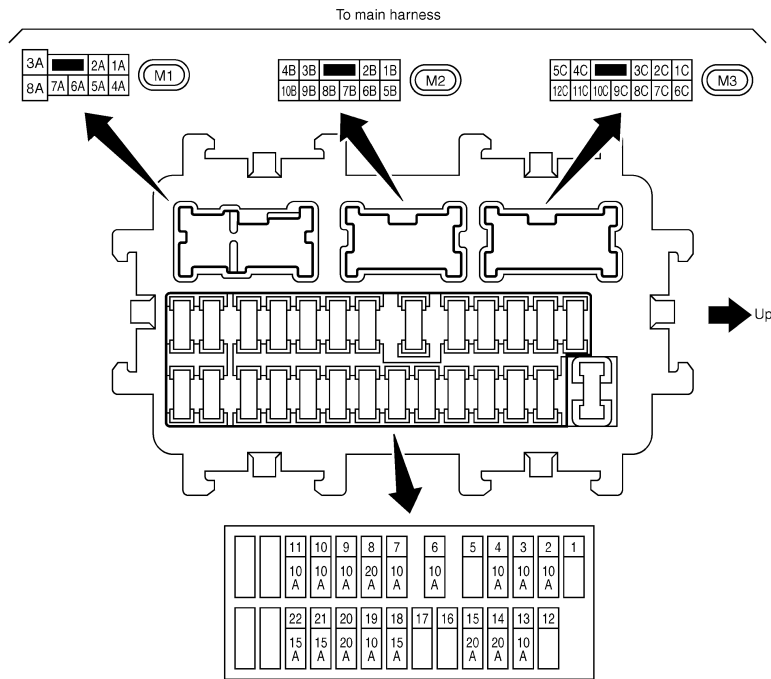
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## FUSE BLOCK - JUNCTION BOX (J/B)

### Fuse, Connector and Terminal Arrangement

INFOID:000000007458777



2010/09/21

JCMWA6290GB



# FUSE, FUSIBLE LINK AND RELAY BOX

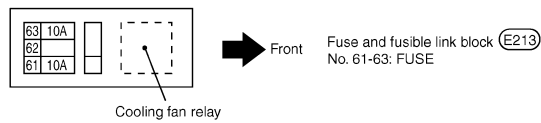
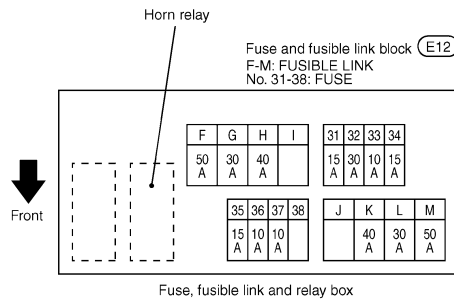
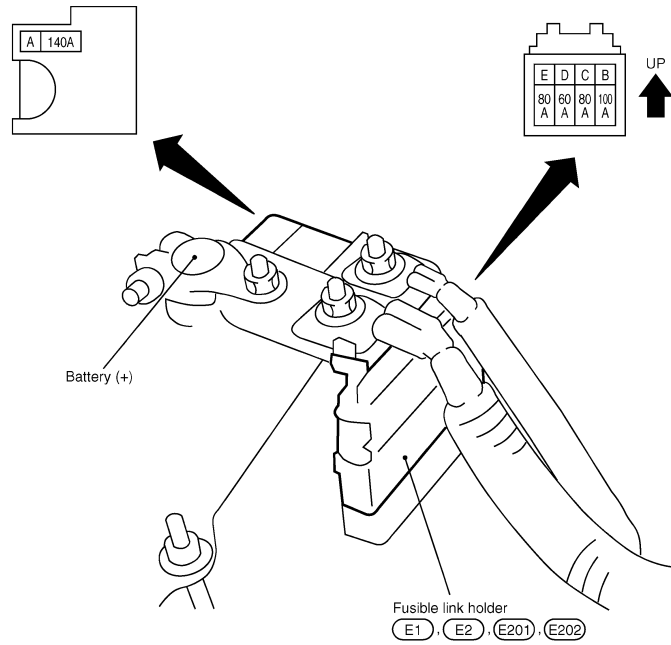
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

## FUSE, FUSIBLE LINK AND RELAY BOX

### Fuse and Fusible Link Arrangement

INFOID:000000007458778



2009/07/16

JCMWA4944GB

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

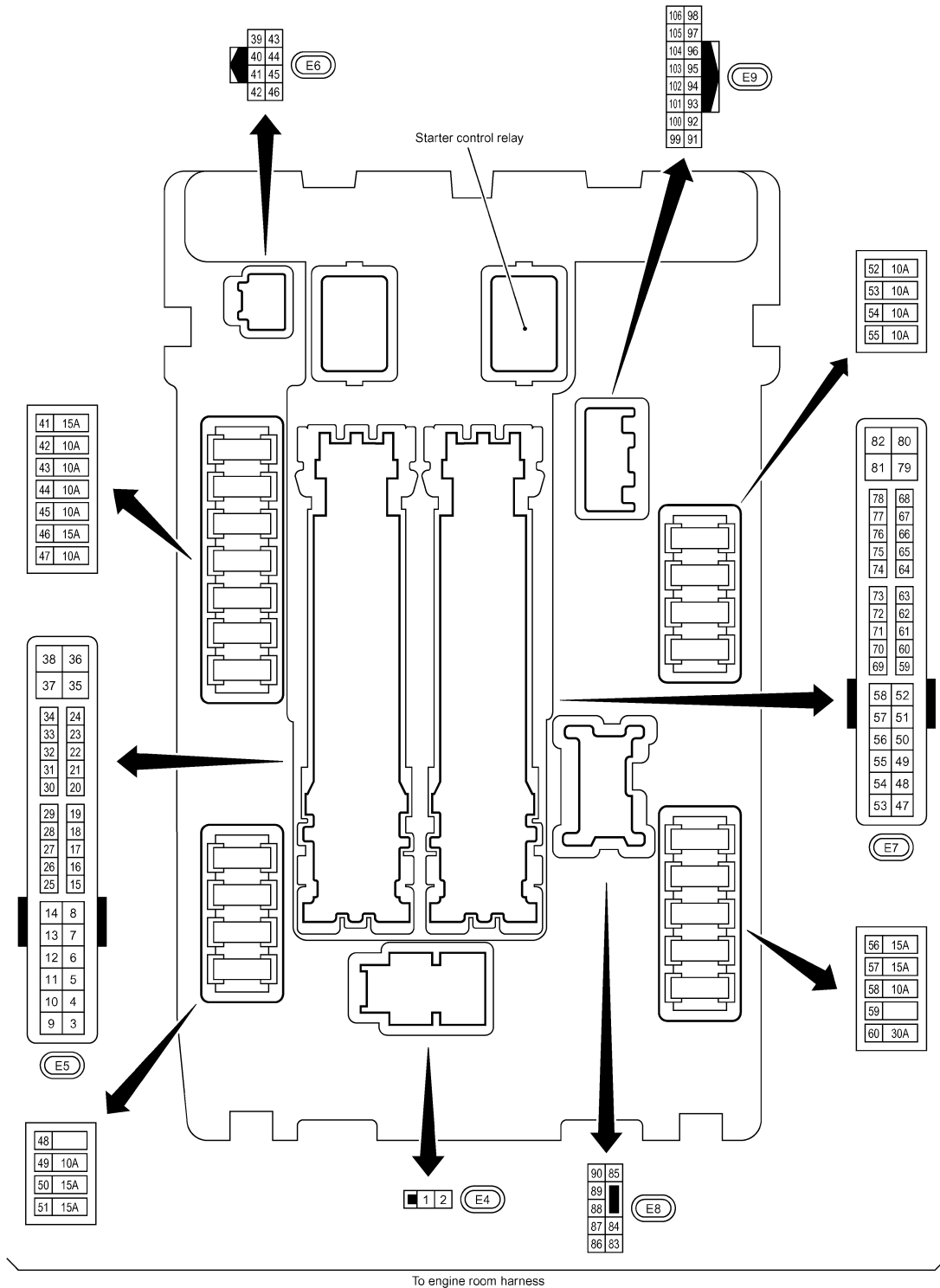
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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

### Fuse, Connector and Terminal Arrangement

INFOID:000000007458779



2011/06/24

JRMWC4050GB

# PRECAUTIONS

< PRECAUTION >

[POWER SUPPLY & GROUND CIRCUIT]

## PRECAUTION

### PRECAUTIONS

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

INFOID:000000007458780

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:**

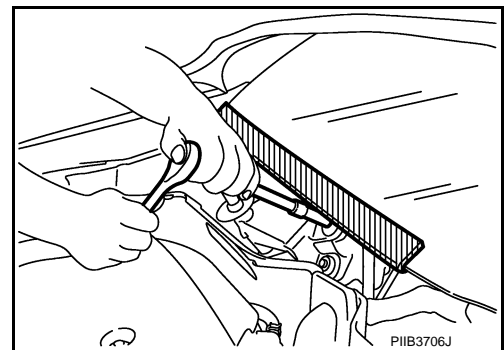
Always observe the following items for preventing accidental activation.

- 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:000000007458781

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



# PREPARATION

## [POWER SUPPLY & GROUND CIRCUIT]

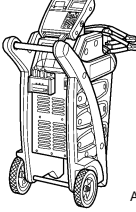
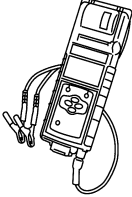
< PREPARATION >

# PREPARATION

## PREPARATION

### Special Service Tools

INFOID:000000007753437

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>

# BATTERY

< REMOVAL AND INSTALLATION >

[POWER SUPPLY & GROUND CIRCUIT]

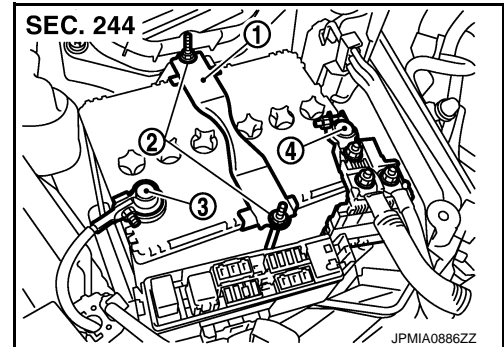
## REMOVAL AND INSTALLATION

### BATTERY

#### Exploded View

INFOID:000000007458783

- 1 : Battery fix frame
- 2 : Battery fix frame mounting nuts
- 3 : Battery terminal (-)
- 4 : Battery terminal (+)

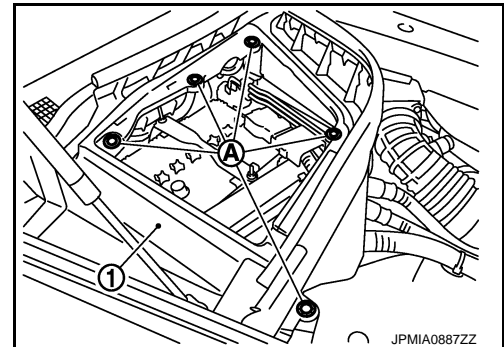


#### Removal and Installation

INFOID:000000007458784

##### REMOVAL

1. Remove battery cover.
2. Remove the clips (A), and remove hoodledge cover RH (1).

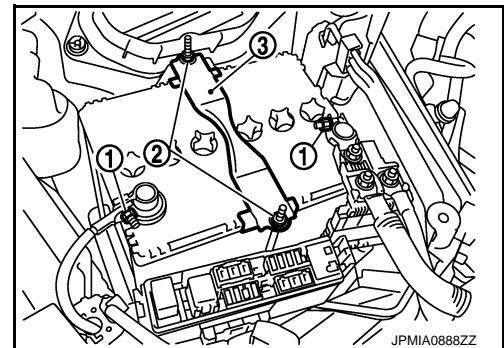


3. Remove cowl top cover RH. Refer to [EXT-22. "Exploded View"](#).
4. Remove cover of battery positive terminal.
5. Loosen battery terminal nuts (1), and disconnect both battery cables from battery terminals.

**CAUTION:**

**When disconnecting, disconnect the battery cable from the negative terminal first.**

6. Remove battery fix frame mounting nuts (2) and battery fix frame (3).
7. Remove battery.



##### INSTALLATION

Install in the reverse order of removal.

**CAUTION:**

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

**Battery fix frame mounting nut**

: 3.9 N·m (0.40 kg·m, 35 in·lb)

**Battery terminal nut**

: 5.4 N·m (0.55 kg·m, 48 in·lb)

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

## BATTERY

< REMOVAL AND INSTALLATION >

[POWER SUPPLY & GROUND CIRCUIT]

Reset electronic systems as necessary. Refer to [GI-58. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection"](#).

# BATTERY TERMINAL WITH FUSIBLE LINK

< REMOVAL AND INSTALLATION >

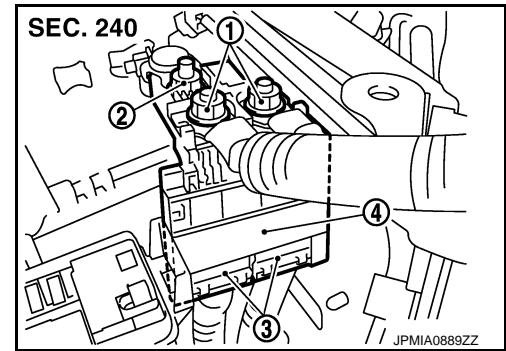
[POWER SUPPLY & GROUND CIRCUIT]

## BATTERY TERMINAL WITH FUSIBLE LINK

### Exploded View

INFOID:000000007458785

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

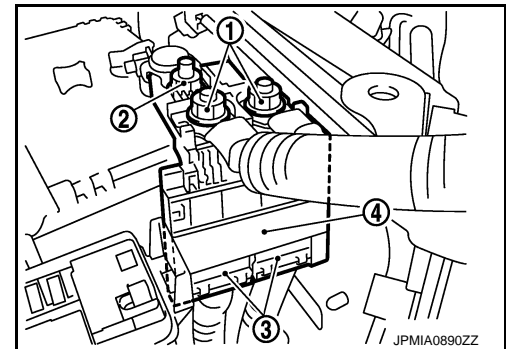


### Removal and Installation

INFOID:000000007458786

#### REMOVAL

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



#### INSTALLATION

Install in the reverse order of removal.

#### Harness mounting nut

: 13.5 N·m (1.4 kg-m, 10 ft-lb)

#### Fusible link holder mounting nut

: 13.5 N·m (1.4 kg-m, 10 ft-lb)

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K  
L  
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N  
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P

# SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

[POWER SUPPLY & GROUND CIRCUIT]

## SERVICE DATA AND SPECIFICATIONS (SDS)

### SERVICE DATA AND SPECIFICATIONS (SDS)

#### Battery

INFOID:000000007458787

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