

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

POWER SUPPLY & GROUND CIRCUIT	Engine Control Harness62	F
BASIC INSPECTION 3	Main Harness63	
BATTERY 3	Body Harness66	G
How to Handle Battery3	HARNES LAYOUT69	
Work Flow3	Outline69	
DTC/CIRCUIT DIAGNOSIS 6	Engine Room Harness70	H
POWER SUPPLY ROUTING CIRCUIT 6	Engine Control Harness72	
Wiring Diagram - BATTERY POWER SUPPLY -6	Main Harness74	
Wiring Diagram - BATTERY POWER SUPPLY	Body Harness75	
FUSIBLE LINK No. 1 -26	Door Harness77	I
Wiring Diagram - BATTERY POWER SUPPLY	Room Lamp Harness79	
FUSE No. 6 -27	HARNES CONNECTOR80	J
Wiring Diagram - BATTERY POWER SUPPLY	Description80	
FUSE No. 11 -28	STANDARDIZED RELAY83	
Wiring Diagram - BATTERY POWER SUPPLY	Description83	K
FUSE No. 50 -29	FUSE BLOCK - JUNCTION BOX (J/B)85	
Wiring Diagram - BATTERY POWER SUPPLY	Fuse, Connector and Terminal Arrangement85	L
FUSE No. 53 -30	FUSE, FUSIBLE LINK AND RELAY BOX86	
Wiring Diagram - ACCESSORY POWER SUPPLY -31	Fuse and Fusible Link Arrangement86	
Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 19 -36	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)87	PG
Wiring Diagram - IGNITION POWER SUPPLY -37	Fuse, Connector and Terminal Arrangement87	
Wiring Diagram - IGNITION POWER SUPPLY	PRECAUTION88	N
FUSE No. 3 -53	PRECAUTIONS88	
Wiring Diagram - IGNITION POWER SUPPLY	Precaution for Supplemental Restraint System (SRS) "AIR BAG" and "SEAT BELT PRE-TENSIONER"88	O
FUSE No. 4 -54	Precaution for Battery Service88	
Wiring Diagram - IGNITION POWER SUPPLY	Precaution for Procedure without Cowl Top Cover...88	P
FUSE No. 44 -55	Precautions for Removing Battery Terminal89	
Wiring Diagram - IGNITION POWER SUPPLY	PREPARATION90	
FUSE No. 45 -56	PREPARATION90	
Fuse57	Special Service Tools90	
Fusible Link59		
Circuit Breaker59		
GROUND DISTRIBUTION60		
Engine Room Harness60		

REMOVAL AND INSTALLATION	91
BATTERY	91
Exploded View	91
Removal and Installation	91
BATTERY TERMINAL WITH FUSIBLE LINK... ..	93
Exploded View	93
Removal and Installation	93

SERVICE DATA AND SPECIFICATIONS	
(SDS)	94
SERVICE DATA AND SPECIFICATIONS	
(SDS)	94
Battery	94

BASIC INSPECTION

BATTERY

How to Handle Battery

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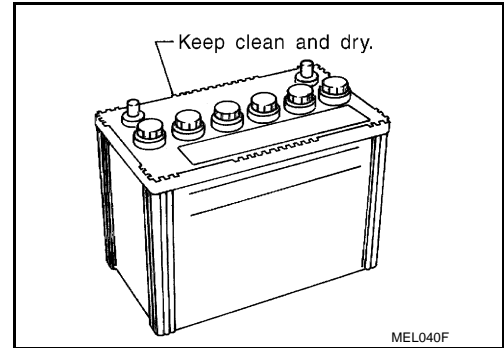
CAUTION:

- 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.

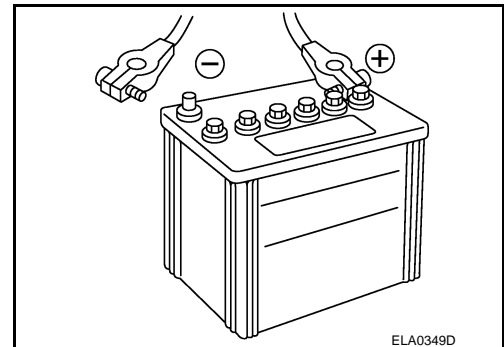
METHODS OF PREVENTING OVER-DISCHARGE

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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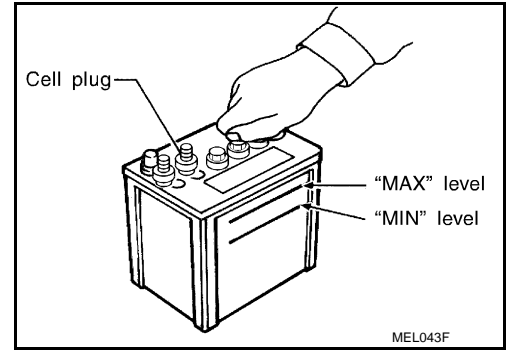
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BATTERY

[POWER SUPPLY & GROUND CIRCUIT]

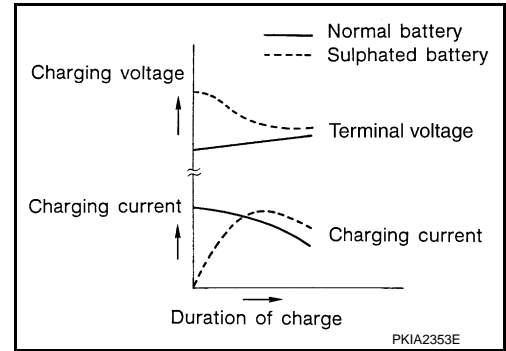
< BASIC INSPECTION >

- 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.



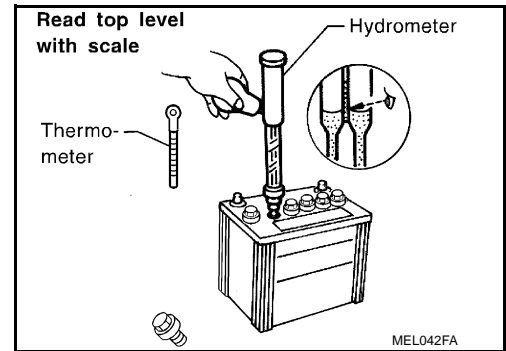
Specific Gravity Check

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	12	0.5
1/2 charged	23	
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 >

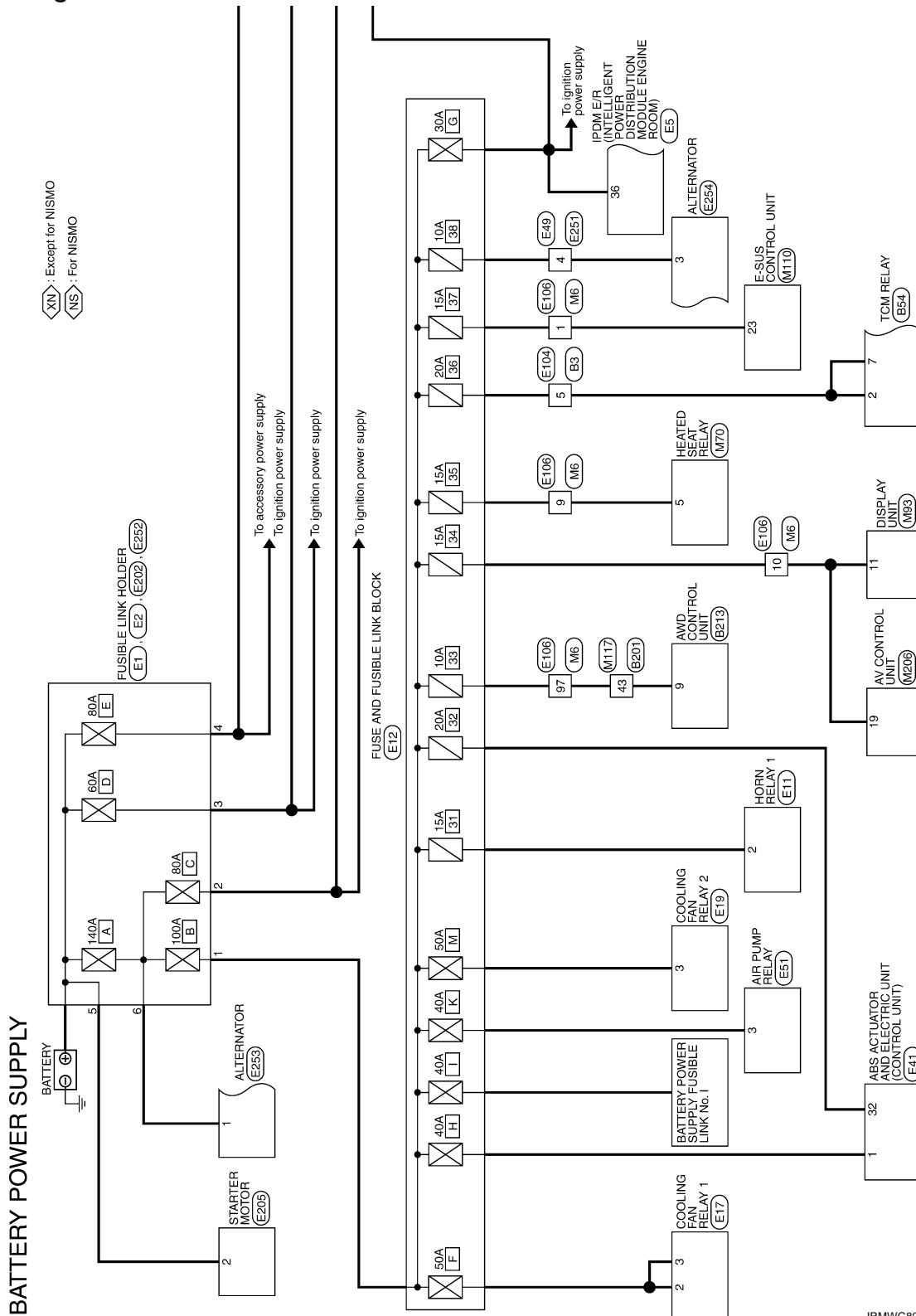
[POWER SUPPLY & GROUND CIRCUIT]

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

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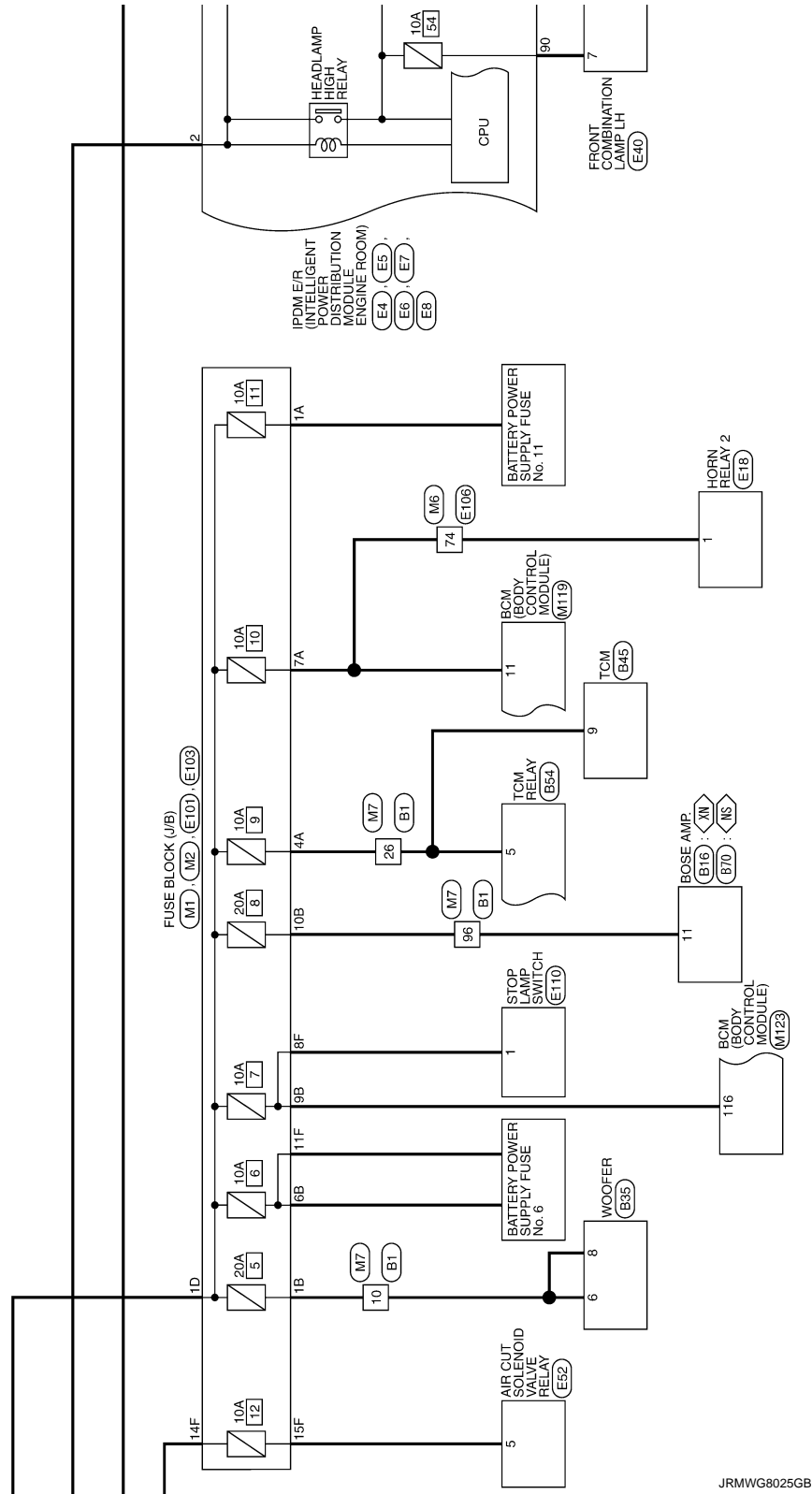
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POWER SUPPLY ROUTING CIRCUIT

[POWER SUPPLY & GROUND CIRCUIT]

< DTC/CIRCUIT DIAGNOSIS >



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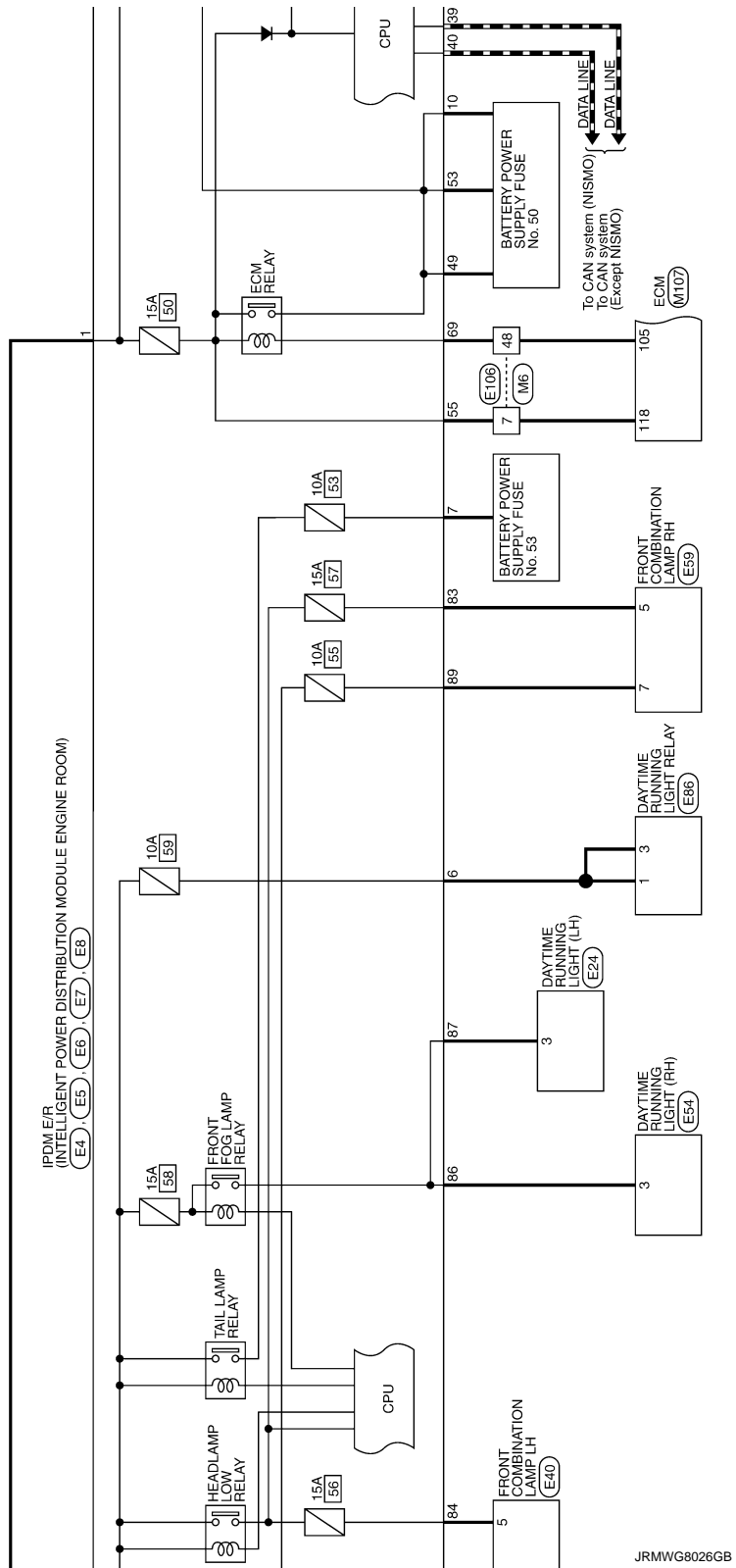
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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

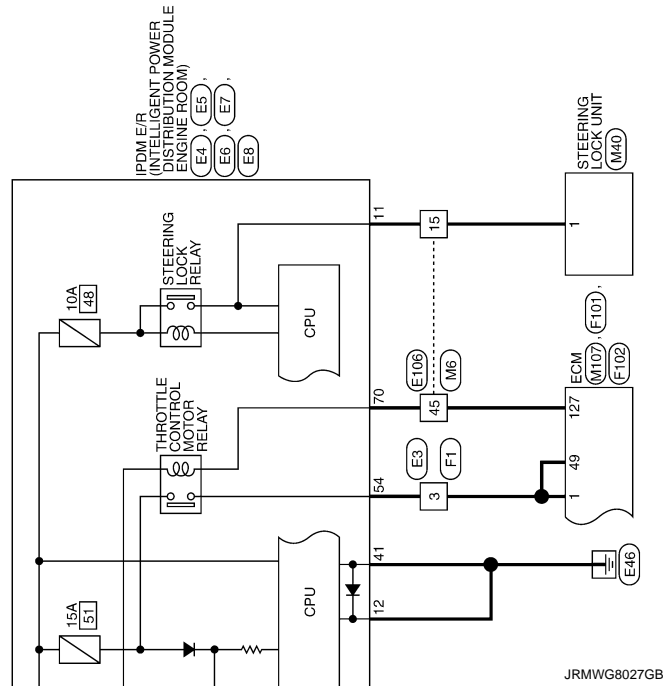


POWER SUPPLY ROUTING CIRCUIT

< 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.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

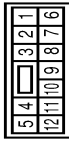


Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	V	-
7	W	-
8	W	-
9	Y	-
10	R	-
11	Y	-
12	GR	- [Without active noise control unit]
13	BG	- [With active noise control unit]
14	Y	-
15	BR	-
16	R	-
17	W	-
18	BR	-
20	GR	-
21	SB	-
22	W	-
23	G	-
24	BG	-
25	L	-
26	P	-
27	GR	-
28	BG	-
31	GR	-
32	L	-
33	V	-
34	BG	-
39	G	-
40	LG	-
41	Y	-
42	SB	-
43	P	-
47	R	-
48	B	-

49	W	-
50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	LG	-
64	R	-
65	G	-
66	BR	-
67	BG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
73	V	- [With active noise control unit]
73	SB	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [With active noise control unit]
83	Y	- [Without active noise control unit]
84	SHIELD	-
85	V	-
86	SB	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	BR	-
93	SB	-
94	GR	-
95	BG	-
96	Y	-
97	Y	-
98	LG	-

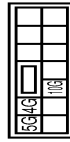
99	R	-
100	G	-

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



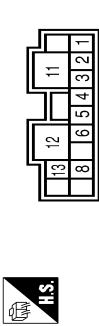
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	BG	-
3	BR	-
4	Y	-
5	R	-
6	P	-
7	W	-
8	SB	-
9	LG	-
10	V	-
11	GR	-
12	G	-

Connector No.	B6
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS12FBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10G	BG	-
4G	P	-
5G	W	-

Connector No.	B16
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SIA2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	AUDIO SIGNAL FRONT DOOR SPEAKER RH
2	LG	AUDIO SIGNAL FRONT DOOR SPEAKER LH
3	SB	AUDIO SIGNAL FRONT DOOR SQUAWKER RH
4	BR	AUDIO SIGNAL FRONT DOOR SQUAWKER LH
5	R	AUDIO SIGNAL FRONT DOOR SPEAKER LH
6	G	AUDIO SIGNAL FRONT DOOR SPEAKER RH
8	GR	AUDIO SIGNAL FRONT DOOR SQUAWKER LH
11	Y	BATTERY POWER SUPPLY
12	B	GROUND
13	BG	AUDIO SIGNAL FRONT DOOR SQUAWKER LH

Connector No.	B20
Connector Name	AVT SHIFT SELECTOR
Connector Type	TH24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BCM VCG IN
2	BG	KEY I/LOCK(P)
3	B	GROUND
5	G	RANGE SENSOR No. SIGNAL
6	B	GROUND
8	V	RANGE SENSOR No.1 SIGNAL
10	G	RANGE SENSOR No.3 SIGNAL
12	GR	RANGE SENSOR No.5 SIGNAL
13	Y	VIGN

POWER SUPPLY ROUTING CIRCUIT

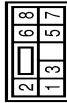
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[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

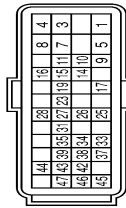
Terminal No.	Color Of Wire	Signal Name [Specification]
14	W	SHIFT LOCK SOLENOID CONTROL SIGNAL
15	LG	RANGE SENSOR POWER SOURCE 2
16	L	RANGE SENSOR POWER SOURCE 1
17	R	ILLUMINATION
18	B	GROUND
20	BR	AUTOMANUAL RANGE CHANGE SWITCH 1 SIGNAL
21	P	RANGE SENSOR No.4 SIGNAL
22	BR	ILLUMINATION GND
23	R	RANGE SENSOR No.2 SIGNAL
24	V	AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL

Connector No.	B35
Connector Name	WOOFER
Connector Type	NS08FBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	SOUND SIGNAL WOOFER (-)
2	P	SOUND SIGNAL WOOFER (+)
3	W	WOOFER AMP. ON SIGNAL
5	B	GND
6	R	BATTERY
7	B	GND
8	R	BATTERY

Connector No.	B45
Connector Name	TCM
Connector Type	PH40FBR-FZ6L-LH-Z



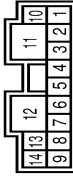
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	POWER SUPPLY (MEMORY BACK-UP) 2
3	B	GROUND
4	B	GROUND
5	W	POWER SUPPLY (MEMORY BACK-UP) 3
7	B	GROUND
8	B	GROUND
9	P	POWER SUPPLY (MEMORY BACK-UP) 1
10	LG	BACK-UP LAMP SIGNAL
11	L	CANH
14	V	POWER OFF
15	P	CANH
16	W	STOP LAMP SWITCH SIGNAL
17	V	IGNITION SWITCH SIGNAL
19	GR	STARTER RELAY SIGNAL
23	BR	AUTOMANUAL RANGE CHANGE SWITCH SIGNAL
25	L	RANGE SENSOR POWER SOURCE 1
26	LG	RANGE SENSOR POWER SOURCE 2
27	G	RANGE SENSOR NO. - SIGNAL
28	V	AUTOMANUAL RANGE CHANGE SWITCH 2 SIGNAL
31	SB	ENGINE SPEED SIGNAL
33	V	RANGE SENSOR NO.1 SIGNAL
34	BG	SAVE MODE SWITCH SIGNAL
35	G	RANGE SENSOR NO.3 SIGNAL
37	GR	R MODE SWITCH SIGNAL
38	R	RANGE SENSOR NO.2 SIGNAL
39	W	PADDLE SHIFTER (SHIFT-UP) SWITCH SIGNAL
42	L	PADDLE SHIFTER (SHIFT-DOWN) SWITCH SIGNAL
43	P	RANGE SENSOR NO.4 SIGNAL
44	GR	RANGE SENSOR NO.5 SIGNAL
45	BG	R MODE LAMP SIGNAL
46	W	SHIFT LOCK SOLENOID CONTROL SIGNAL
47	G	SAVE MODE LAMP SIGNAL

Connector No.	B54
Connector Name	TCM RELAY
Connector Type	MC06FBR-R-LC



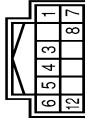
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	R	-
3	G	-
5	BG	-
6	W	-
7	R	-

Connector No.	B70
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJA2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	AUDIO SIGNAL FRONT DOOR SPEAKER LH
2	Y	AUDIO SIGNAL FRONT DOOR SPEAKER RH
3	LG	AUDIO SIGNAL FRONT DOOR SPEAKER RLH
4	BG	AUDIO SIGNAL FRONT DOOR SPEAKER RLH
5	GR	AUDIO SIGNAL FRONT DOOR SPEAKER LH
6	V	AUDIO SIGNAL REAR SPEAKER LH
7	LG	AUDIO SIGNAL REAR SPEAKER LH
8	SB	AUDIO SIGNAL FRONT DOOR SPEAKER FLH
9	P	AUDIO SIGNAL WOOFER
10	G	AUDIO SIGNAL FRONT DOOR SPEAKER LH
11	Y	BATTERY POWER SUPPLY
12	B	GROUND
13	BR	AUDIO SIGNAL FRONT DOOR SPEAKER RH
14	SB	AUDIO SIGNAL WOOFER

Connector No.	B72
Connector Name	VEHICLE DATA TRANSMITTER
Connector Type	TH12FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY
2	L	IT COMMUNICATION (H)
3	P	IT COMMUNICATION (L)
4	L	CANH
5	P	CANL
6	G	IGN SIGNAL
7	B	ACC POWER SUPPLY
8	B	GROUND
12	B	GROUND

Connector No.	B75
Connector Name	DATA LOGGER CONTROL MODULE
Connector Type	TH16FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY
4	R	LOGGING (LED-RED)
5	Y	GPS (LED-GREEN)
7	L	IT COMMUNICATION SIGNAL (H)
8	P	IT COMMUNICATION SIGNAL (L)
9	G	IGN SIGNAL
10	SB	ACC POWER SUPPLY
12	L	DATA LOGGER SWITCH
16	B	GROUND

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

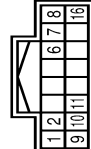
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH89FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	EG	-
9	W	-
10	R	-
11	V	-
12	LG	-
13	BR	-
14	L	-
15	P	-
16	GR	-
42	Y	-
43	Y	-
44	V	-
45	W	-
51	SB	-
52	G	-
53	BR	-
54	V	-
60	R	-
61	P	-
62	L	-
63	LG	-
64	GR	-
69	P	-
70	L	-
71	R	-
80	L	-
81	SB	-
82	V	-
83	B	-
84	Y	-
85	BR	-
86	SHIELD	-
87	W	-
96	Y	-


98	EG	-
99	BR	-
100	W	-

Connector No. B213
Connector Name AWD CONTROL UNIT
Connector Type TH16FW-NH




Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	SOL+
2	G	SOL-
3	V	-
4	W	IGN
5	L	CAN-H
6	Y	SOLVB
7	B	GROUND
8	P	CAN-L
16	P	-

Connector No. B250
Connector Name EVAP CANISTER VENT CONTROL VALVE
Connector Type E02FB-RS



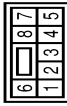
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	L	-

Connector No.	B511
Connector Name	THIGH SUPPORT SWITCH
Connector Type	NS04FW-CS




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

Connector No. B512
Connector Name POWER SEAT SWITCH
Connector Type NS06FW-CS



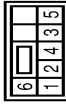
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/W	-
2	B	-
3	Y	-
4	G	-
5	L	-
6	W	-
7	R	-
8	LG	-

Connector No.	B513
Connector Name	HEATED SEAT SWITCH
Connector Type	NS06FBR-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
18	R	-
19	W/R	-
20	W/B	-
21	B	-
22	L/R	-
23	L/B	-

Connector No. B568
Connector Name POWER SEAT SWITCH (WITHOUT SLIDING SWITCH)
Connector Type NS06FBR-CS



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

JRMWG8030GB

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

Connector No.	B570
Connector Name	HEATED SEAT SWITCH
Connector Type	NS06FBRCS



Terminal No.	Color Of Wire	Signal Name [Specification]
18	B	-
19	W/B	-
20	W/B	-
21	B	-
22	L/R	-
23	L/B	-

Connector No.	E1
Connector Name	FUSIBLE LINK HOLDER
Connector Type	LO2FBR.MC



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

Connector No.	E2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	LO2FGY.MC



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

Connector No.	E3
Connector Name	WIRE TO WIRE
Connector Type	RS08FB.PP



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	LG	-
3	W	-
4	L	-
5	P	-
6	V	-
7	SHIELD	-
8	G	-

Connector No.	E4
Connector Name	FROM E/F INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	LO2FB.MC



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

Connector No.	E5
Connector Name	FROM E/F INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4-1V



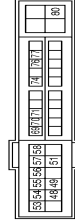
Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	L	-
6	Y	-
7	R	-
10	W	-
11	SB	-
12	B/W	-
13	R	-
16	LG	-
25	BG	-
27	Y	-
28	G	-
30	GR	-
32	L	-
33	P	-
36	LG	-

Connector No.	E6
Connector Name	FROM E/F INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH08FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	B/Y	-
42	G	-
43	SB	-
44	W	-
46	BG	-

Connector No.	E7
Connector Name	FROM E/F INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH20FW-CS12-M4



Terminal No.	Color Of Wire	Signal Name [Specification]
48	L	-
49	P	-
51	LG	-
53	SB	-
54	W	-
55	BG	-
56	R	-
57	G	-
58	Y	-
59	BG	-
70	G	-
71	SB	-
74	LG	-

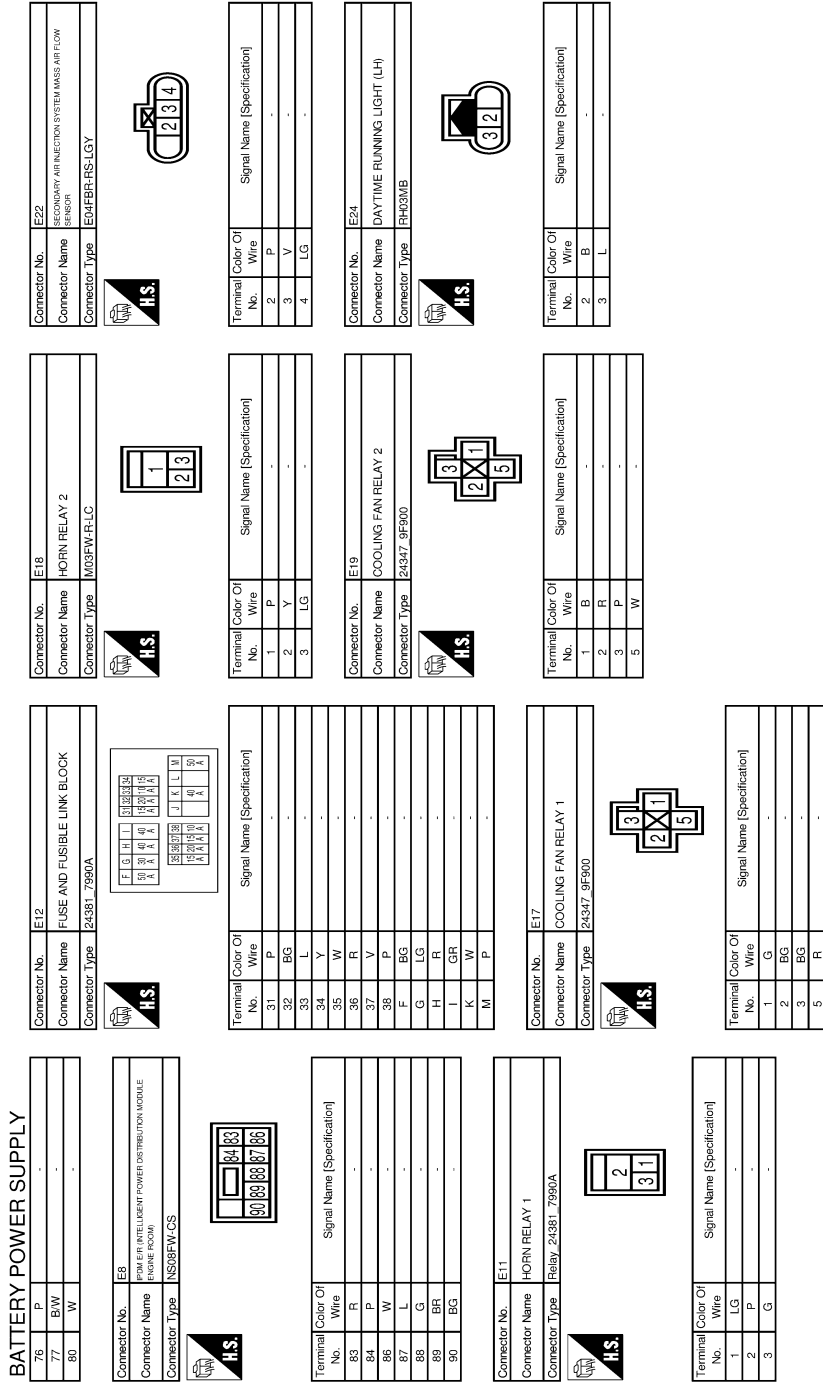
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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



JRMWG8032GB

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

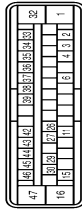
BATTERY POWER SUPPLY

Connector No.	E40
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FB-FR



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

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	AEZ43FB-AJZ4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	LBWR
2	V	DIAG-K
3	GR	VDC OFF SW
4	W	BLS
6	G	VDC UP SW
11	Y	CANLH
15	P	CANLH
16	B	GROUND
26	W	CAN-L
27	BR	G SENSOR GROUND
29	BG	UZ
30	L	CANH

32	BG	UBVR
33	W	DS FR
34	BG	DP FR
35	Y	VDC TOP POSITION LED
36	L	DP RL
37	R	DS RL
38	V	BRAKE FLUID LEVEL SW
39	G	G SENSOR POWER
42	V	DS RR
43	LG	DP RR
44	SB	VDC TOP POSITION LED
45	W	DP FL
46	R	DS FL
47	B	GROUND

Connector No.	E49
Connector Name	WIRE TO WIRE
Connector Type	RH68MB



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

Connector No.	E51
Connector Name	AIR PUMP RELAY
Connector Type	Z4347_9F900



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

Connector No.	E52
Connector Name	AIR CUT SOLENOID VALVE RELAY
Connector Type	MS02FL-M2



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

Connector No.	E54
Connector Name	DAYTIME RUNNING LIGHT (RH)
Connector Type	RH03MB



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

Connector No.	E59
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B/R	-
3	R	-
4	B/O	-
5	R	-
6	V	-
7	BR	-
8	BG	-

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

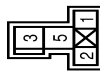
BATTERY POWER SUPPLY

Connector No.	E62
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBREDGY



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

Connector No.	E66
Connector Name	DAYTIME RUNNING LIGHT RELAY
Connector Type	MS2FL-M2-LC



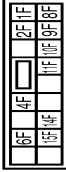
Terminal Color Of No.	Wire	Signal Name [Specification]
1	Y	-
2	GR	-
3	R	-
5	R	-

Connector No.	E101
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC



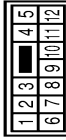
Terminal Color Of No.	Wire	Signal Name [Specification]
1D	R	-

Connector No.	E103
Connector Name	FUSE BLOCK (J/B)
Connector Type	MS16FW-CS



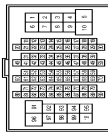
Terminal Color Of No.	Wire	Signal Name [Specification]
10F	GR	-
11F	Y	-
14F	LG	-
15F	P	-
1F	W	-
2F	W	-
4F	G	-
6F	BG	-
8F	L	-
9F	R	-

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



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal Color Of No.	Wire	Signal Name [Specification]
1	V	-
3	BG	-
4	BG	-
5	R	-
6	P	-
7	BG	-
8	P	-
9	W	-

10	Y	-
11	SB	-
12	BG	-
13	P	-
14	L	-
15	SB	-
16	BG	-
17	SHIELD	-
18	L	-
19	P	-
20	B	-
21	Y	-
22	V	-
23	V	-
24	V	-
25	BR	-
26	L	-
27	SHIELD	-
28	G	-
29	R	-
30	W	-
31	V	-
32	G	-
33	GR	-
34	P	-
35	LG	-
36	G	-
37	Y	-
38	SB	-
39	GR	-
40	G	-
41	V	-
42	V	-
43	L	-
44	BR	-
45	G	-
46	SB	-
48	BG	-
49	L	-
50	R	-
51	SHIELD	-
60	P	-
61	L	-
71	LG	-
72	SB	-
74	P	-
75	BR	-
76	LG	-
77	V	-
78	BR	-

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

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

Connector No.	E110
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC



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

Connector No.	E202
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24340-79908



Terminal No.	Wire	Signal Name [Specification]
5	B/R	-

Connector No.	E205
Connector Name	STARTER MOTOR
Connector Type	24348-51E44



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

Connector No.	E251
Connector Name	WIRE TO WIRE
Connector Type	RH88FB



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

Connector No.	E252
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24340-79905



Terminal No.	Wire	Signal Name [Specification]
6	B	-

Connector No.	E253
Connector Name	ALTERNATOR
Connector Type	24340-85F45



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

Connector No.	E254
Connector Name	ALTERNATOR
Connector Type	HS03FB



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

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	HS08MB-PR



Terminal No.	Wire	Signal Name [Specification]
1	W	-
2	LG	-
3	Y	-
4	O	-
5	R	-
6	V	-
7	SHIELD	-
8	P	-

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

Connector No.	F4	F11	F13	F15	F12	F10	F27
Connector Name	CONDENSER	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)	EMP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE	MASS AIR FLOW SENSOR (BANK 1)	IGNITION COIL No. 5 (WITH POWER TRANSISTOR)	IGNITION COIL No. 1 (WITH POWER TRANSISTOR)	IGNITION COIL No. 2 (WITH POWER TRANSISTOR)
Connector Type	M02FW-LC	E03FGY-RS	E02FL-RS-LGY	RH06FB	E03FGY-RS	E03FGY-RS	E03FGY-RS
Terminal Color Of No.	Wire	Wire	Wire	Wire	Wire	Wire	Wire
1	W	L	O	P	V	Y	G
2	B	B	V	O	B	B	B
3	B	W		W	W	W	W
Signal Name [Specification]							
Connector No.	F4	F11	F13	F15	F12	F10	F27
Connector Name	CONDENSER	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)	EMP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE	MASS AIR FLOW SENSOR (BANK 1)	IGNITION COIL No. 5 (WITH POWER TRANSISTOR)	IGNITION COIL No. 1 (WITH POWER TRANSISTOR)	IGNITION COIL No. 2 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS	E03FGY-RS	E02FL-RS-LGY	RH06FB	E03FGY-RS	E03FGY-RS	E03FGY-RS
Terminal Color Of No.	Wire	Wire	Wire	Wire	Wire	Wire	Wire
1	Y	V	O	P	V	Y	G
2	B	B	V	O	B	B	B
3	W	W		W	W	W	W
Signal Name [Specification]							

JRMWG8036GB

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

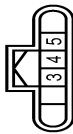
BATTERY POWER SUPPLY

Connector No.	F29
Connector Name	IGNITION COIL NO. 4 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS



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

Connector No.	F31
Connector Name	MASS AIR FLOW SENSOR (BANK 2)
Connector Type	PH06FB



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

Connector No.	F32
Connector Name	INTAKE VALVE TRIMMING CONTROL SOLENOID VALVE (BANK 2)
Connector Type	E02FG-RS-LGY



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

Connector No.	F33
Connector Name	INTAKE VALVE TRIMMING CONTROL SOLENOID VALVE (BANK 1)
Connector Type	E02FG-RS-LGY



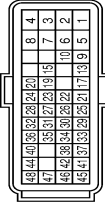
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	W	-

Connector No.	F34
Connector Name	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
Connector Type	BS02FB-AHY-S



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

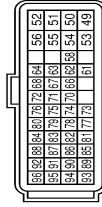
Connector No.	F101
Connector Name	ECM
Connector Type	RH40FB-R28-L-LHZ



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	THROTTLE CONTROL MOTOR RELAY (POWER SUPPLY) (BANK 2)
2	G	THROTTLE CONTROL MOTOR (OPEN) (BANK 2)
3	O	A/F SENSOR 1 HEATER (BANK 2)
4	LG	A/F SENSOR 1 HEATER (BANK 1)
5	L	THROTTLE CONTROL MOTOR (CLOSE)
6	B	ECM GROUND
7	L	EVAP CANISTER VENT CONTROL VALVE
8	V	SWP-CANISTER VENT VALVE CONTROL SOLENOID VALVE
9	G	IGNITION SIGNAL No. 2
10	Y	IGNITION SIGNAL No. 1
13	L	IGNITION SIGNAL No. 3
15	B	SENSOR GROUND
17	LG	FUEL INJECTOR NO. 3
19	GR	SENSOR GROUND
20	G	SENSOR GROUND
21	Y	FUEL INJECTOR NO. 2
22	W	SENSOR GROUND
23	V	SENSOR GROUND

24	LG	SAAFM
25	P	FUEL INJECTOR NO. 1
26	O	SENSOR GROUND
27	L	ENGINE OIL TEMPERATURE SENSOR
28	W	THROTTLE POSITION SENSOR 1 (BANK 2)
29	LG	FUEL PUMP CONTROL
30	G	FUEL PUMP CONTROL MODULE (IPCOM) CHECK
31	BR	MASS AIR FLOW SENSOR
32	R	THROTTLE POSITION SENSOR 2 (BANK 2)
33	R	IGNITION SIGNAL No. 4
34	V	IGNITION SIGNAL No. 5
35	W	BATTERY CURRENT SENSOR
36	Y	THROTTLE POSITION SENSOR 2 (BANK 1)
37	SB	FUEL INJECTOR NO. 4
38	GR	IGNITION SIGNAL No. 6
40	L	THROTTLE POSITION SENSOR 1 (BANK 1)
41	G	FUEL INJECTOR NO. 5
42	W	FUEL TANK TEMPERATURE SENSOR
44	P	INTAKE AIR TEMPERATURE SENSOR
45	R	FUEL INJECTOR NO. 6
46	Y	ENGINE COOLANT TEMPERATURE SENSOR
47	O	MASS AIR FLOW SENSOR
48	G	THRESH#3

Connector No.	F102
Connector Name	ECM
Connector Type	RH40FB-R28-L-LHZ



Terminal No.	Color Of Wire	Signal Name [Specification]
49	Y	THROTTLE CONTROL MOTOR RELAY (POWER SUPPLY) (BANK 1)
50	SB	THROTTLE CONTROL MOTOR (OPEN) (BANK 1)
51	G	INTAKE VALVE TRIMMING CONTROL SOLENOID VALVE (BANK 2)
52	L	INTAKE VALVE TRIMMING CONTROL SOLENOID VALVE (BANK 1)
53	BR	THROTTLE CONTROL MOTOR (CLOSE) (BANK 1)
54	B	ECM GROUND
55	R	HEATED OXYGEN SENSOR HEATER
56	W	HEATED OXYGEN SENSOR 2 HEATER B2
61	GR	SENSOR GROUND
62	B	SENSOR GROUND

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

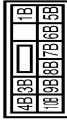
63	O	CAMSHAFT POSITION SENSOR (PHASE) (BANK 1)			
64	BR	CRANKSHAFT POSITION SENSOR (POS)			
66	V	SENSOR GROUND			
67	Y	CAMSHAFT POSITION SENSOR (PHASE) (BANK 2)			
68	B	SENSOR GROUND			
70	SB	SENSOR GROUND			
71	SHIELD	SENSOR GROUND			
72	W	KNOCK SENSOR (2GAIN)			
73	W	HEATED OXYGEN SENSOR 2			
74	R	SENSOR GROUND			
75	P	SENSOR GROUND			
76	W	KNOCK SENSOR (2GAIN)			
77	GR	HEATED OXYGEN SEN 2-B2			
78	LG	SENSOR GROUND			
79	L	TPRES#2			
80	L	TPRES#1			
81	O	A/F SENSOR 1			
82	V	A/F SEN 1-B1			
83	G	POWER STEERING PRESSURE SENSOR			
84	SB	SENSOR POWER SUPPLY			
85	BR	SENSOR POWER SUPPLY			
86	Y	A/F SEN 1-B2			
87	W	A/F SEN 1-B2			
88	L	SENSOR POWER SUPPLY			
89	L	REFRIGERANT PRESSURE SENSOR			
90	O	SENSOR POWER SUPPLY			
91	P	SENSOR POWER SUPPLY			
92	R	SENSOR POWER SUPPLY			
93	GR	SUBPUMPV+			
94	SB	SUBPUMPV-			
95	Y	SENSOR POWER SUPPLY			
96	V	SENSOR POWER SUPPLY			

Connector No.	M1
Connector Name	FUSE BLOCK (J1B)
Connector Type	NS06FW-M2



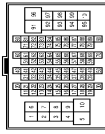
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	V	
2A	G	
3A	L	
4A	LG	
5A	SB	
6A	Y	
7A	R	
8A	L	

Connector No.	M2
Connector Name	FUSE BLOCK (J1B)
Connector Type	NS10FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10B	Y	
1B	R	
3B	P	
4B	G	
5B	BG	
6B	Y	
7B	R	
8B	R	
9B	SB	

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



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

38	Y	
39	GR	
40	BG	
41	W	
42	R	
43	Y	
44	BR	
45	G	
46	LG	
48	W	
49	L	
50	R	
51	SHIELD	
60	SB	
61	V	
71	W	
72	LG	
74	R	
75	BR	
76	LG	
77	R	
78	BR	
79	W	
80	Y	
81	BG	
82	SB	
84	Y	
85	P	
86	GR	
87	R	
88	L	
89	G	
90	P	
91	W	
92	R	
93	LG	
94	W	
95	SB	
96	L	
97	L	
98	Y	
99	BG	
100	L	

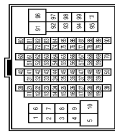
POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

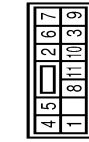
Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	TH80/MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
2	L	-
3	P	-
6	L	-
7	W	-
8	W	-
9	G	-
10	R	-
11	W	-
12	SB	-
13	G	-
14	W	-
15	BR	-
16	R	-
17	EG	-
18	SB	-
20	GR	-
21	L	-
22	R	-
23	G	-
24	BR	-
25	L	-
26	LG	-
27	W	-
28	R	-
31	GR	-
32	L	-
33	V	-
34	EG	-
39	W	-
40	EG	-
41	R	-
42	V	-
43	W	-
47	G	-
48	R	-
49	W	-

50	SHIELD	-
51	SB	-
52	B	-
53	R	-
54	B	-
56	R	-
57	G	-
58	G	-
59	R	-
60	BR	-
61	Y	-
62	SHIELD	-
63	GR	-
64	R	-
65	G	-
66	BR	-
67	EG	-
69	P	-
70	L	-
71	SHIELD	-
72	SHIELD	- [Without active noise control unit]
72	V	- [With active noise control unit]
73	LG	-
76	R	-
77	SB	-
78	G	-
79	Y	-
80	R	-
81	G	-
82	BR	- [Without active noise control unit]
82	G	- [With active noise control unit]
83	R	- [Without active noise control unit]
83	Y	- [With active noise control unit]
84	SHIELD	-
85	V	-
86	LG	- [Without active noise control unit]
86	W	- [With active noise control unit]
87	L	-
88	P	-
89	SHIELD	-
90	V	-
92	LG	-
93	Y	-
94	G	-
95	R	-
96	Y	-
97	R	-
98	G	-
99	L	-
100	W	-

Connector No.	M12
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	MS12FM-CS



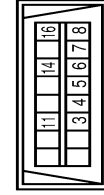
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	Y	-
3	SB	-
4	G	-
5	W	-
6	G	-
7	W	-
8	BG	-
9	L	-
10	R	-
11	V	-

Connector No.	M20
Connector Name	TRUNK LID OPENER SWITCH
Connector Type	TK04FW



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

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



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

Connector No.	M29
Connector Name	SECURITY INDICATOR LAMP
Connector Type	TK02FBR



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

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POWER SUPPLY ROUTING CIRCUIT

[POWER SUPPLY & GROUND CIRCUIT]

< DTC/CIRCUIT DIAGNOSIS >

BATTERY POWER SUPPLY

Connector No.	M35
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FY-EX-1V



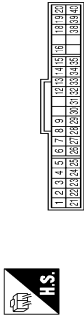
Terminal No.	Color Of Wire	Signal Name [Specification]
23	P	-
28	Y	-
29	Y	-
30	Y	-

Connector No.	M40
Connector Name	STEERING LOCK UNIT
Connector Type	TH68FW-NH



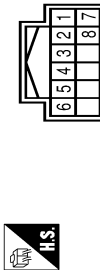
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	S/L12V (MECHANICAL)
2	Y	S/L(K LINE)
3	L	S/L COND/LON1
5	B	GND
6	B	S/L12V(GRU)
7	P	S/L COND/LTON2
8	R	S/L COND/LTON2

Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	BATTERY POWER SUPPLY
2	W	IGNITION POWER SUPPLY
3	B	GROUND
4	B	ILLUMINATION GROUND
5	B	GROUND
6	W	METER CONTROL SWITCH GROUND
7	Y	AC AUTO AMP CONNECTION SIGNAL
8	SB	AMBIENT SENSOR GROUND
9	P	AMBIENT SENSOR SIGNAL
12	L	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	VEHICLE SPEED SIGNAL (8-PULSE)
14	B	OIL PRESSURE SENSOR GROUND
15	R	AIR BAG SIGNAL
16	R	LED HEAD LAMP (RH) WARNING SIGNAL
18	L	FUEL LEVEL SENSOR GROUND
19	R	OIL LEVEL SENSOR GROUND
20	W	OIL LEVEL SENSOR SIGNAL
21	L	CAN-H
22	P	CAN-L
23	LG	ILLUMINATION CONTROL SWITCH SIGNAL (-)
24	BR	ILLUMINATION CONTROL SWITCH SIGNAL (+)
25	G	TRIP AIR RESET SWITCH SIGNAL
26	BG	ENTER SWITCH SIGNAL
27	SB	SELECT SWITCH SIGNAL
28	BR	ALTERNATOR
29	G	SEAT BELT Buckle SWITCH SIGNAL (PASSENGER SIDE)
30	LG	SEAT BELT Buckle SWITCH SIGNAL (DRIVER SIDE)
31	V	PARKING BRAKE SWITCH SIGNAL
32	V	WASHER FLUID LEVEL SWITCH SIGNAL
33	L	WASHER LEVEL SWITCH SIGNAL
34	GR	OIL PRESSURE SENSOR POWER
35	W	OIL PRESSURE SENSOR SIGNAL
38	BG	FUEL LEVEL SENSOR SIGNAL
39	Y	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	ILLUMINATION CONTROL

Connector No.	M54
Connector Name	METER CONTROL SWITCH
Connector Type	TH12FW-NH



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

Connector No.	M60
Connector Name	KEY SLOT
Connector Type	TH12FW-NH



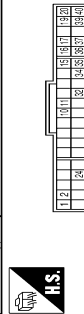
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	BAT
2	GR	CLOCK
3	L	DATA
5	Y	ILL BAT
6	LG	ILL
7	B	GND
11	R	KEY SWITCH SIGNAL

Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-PLC



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

Connector No.	M66
Connector Name	A/C AUTO AMP
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
10	L	AC/LAN SIGNAL
11	R	EACH DOOR MOTOR POWER SUPPLY
15	BG	SUNLOAD SENSOR SIGNAL
16	R	INTAKE SENSOR SIGNAL
17	SB	ACC POWER SUPPLY
19	B	GROUND
20	G	IGNITION POWER SUPPLY
24	BG	ECV SIGNAL
32	L	BLOWER MOTOR CONTROL SIGNAL
34	Y	AC AUTO AMP CONNECTION SIGNAL
35	P	AMBIENT SENSOR SIGNAL
36	LG	IN-VEHICLE SENSOR SIGNAL
37	BG	SENSOR GROUND
39	B	GROUND
40	Y	BATTERY POWER SUPPLY

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

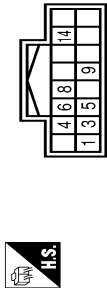
BATTERY POWER SUPPLY

Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2-LC



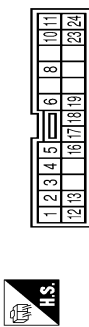
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	G	-
3	G	-
5	L	-

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



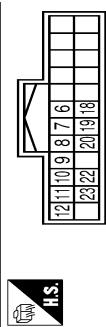
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
3	V	ACC
4	P	ILL
5	P	ILL CONT
6	G	AV COMM (HI)
8	R	AV COMM (LI)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Connector No.	M73
Connector Name	SET-UP SWITCH
Connector Type	TK24FW-1V



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	VDC TOP POSITION LED
2	R	ILL
3	W	VDC TOP POSITION LED
4	V	VDC GND
5	L	VDC UP SW
6	P	E-SUS R MODE SW SIG
8	LG	E-SUS COMF MODE LAMP SIG
10	G	SAVE MODE LAMP SIGNAL
11	W	R MODE SWITCH SIGNAL
12	GR	VDC DN SW
13	G	HAZARD SW
16	R	R MODE LAMP SIGNAL
17	B	SW GND
18	G	IGN
19	BG	E-SUS R MODE LAMP SIG
23	BR	SAVE MODE SWITCH SIGNAL
24	R	E-SUS COMF MODE SW SIG

Connector No.	M83
Connector Name	DISPLAY UNIT
Connector Type	TR24FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
6	SHIELD	SHIELD
7	SHIELD	SHIELD
8	W	CAMERA IMAGE SIGNAL

9	SB	COMM (DISP-CONT)
10	V	COMM (CONT-DISP)
11	Y	BATTERY
12	B	GROUND
18	R	COMPOSITE IMAGE SIGNAL
19	W	COMPOSITE IMAGE GND
20	B	COMPOSITE SYNCHRONIZING SIGNAL
22	SHIELD	SHIELD
23	P	ACC

Connector No.	M102
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



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

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ8-RLH-Z



Terminal No.	Color Of Wire	Signal Name [Specification]
97	P	CAN COMMUNICATION LINE
99	SB	SENSOR POWER SUPPLY
100	BR	SENSOR POWER SUPPLY
101	L	CAN COMMUNICATION LINE
102	G	ASC2 STEERING SWITCH
103	GR	SENSOR GROUND
104	P	ACCELERATOR PEDAL POSITION SENSOR 1

105	W	ECM RELAY (SELF SHUT-OFF)
106	LG	IGNITION SWITCH
107	BG	SENSOR GROUND
108	L	ACCELERATOR PEDAL POSITION SENSOR 2
109	L	SAVALVERLY
110	P	STOP LAMP SWITCH
111	GR	PNP SIGNAL
113	SB	ENGINE SPEED OUTPUT SIGNAL
114	V	DATA LINK CONNECTOR
117	R	ASCD BRAKE SWITCH
118	W	POWER SUPPLY FOR ECM (BACK-UP)
120	BR	SAMPRLY
121	P	POWER SUPPLY FOR ECM
122	V	POWER SUPPLY FOR ECM
124	B	ECM GROUND
126	L	FUEL PUMP RELAY
127	G	THROTTLE CONTROL MOTOR RELAY
128	B	ECM GROUND

Connector No.	M110
Connector Name	E-SUS CONTROL UNIT
Connector Type	FE21FB-FHC2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CAN-L
2	P	R MODE SW SIG
3	L	CAN-H
4	W	FRONT G SENSOR SIG
5	BG	R MODE LAMP SIG
6	BR	REAR G SENSOR SIG
7	R	COMF MODE SW SIG
8	G	FRONT G SENSOR
9	LG	COMF MODE LAMP SIG
10	R	FR SHOCK ABSORBER ACTUATOR LOW SIG
11	G	FR SHOCK ABSORBER ACTUATOR HI SIG
12	L	FL SHOCK ABSORBER ACTUATOR LOW SIG
13	G	REAR G SENSOR
14	SB	FR SHOCK ABSORBER ACTUATOR LOW SIG
15	R	FRONT G SENSOR
16	BR	RL SHOCK ABSORBER ACTUATOR HI SIG

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

17	P	FL SHOCK ABSORBER ACTUATOR HI SIG
18	Y	RL SHOCK ABSORBER ACTUATOR LOW SIG
19	R	IGN
20	V	RR SHOCK ABSORBER ACTUATOR HI SIG
21	R	REAR G SENSOR+
22	B	GND
23	L	BAT

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	G	-
7	V	-
8	G	-
9	W	-
10	L	-
31	Y	-
32	LG	-
33	BR	-
34	L	-
40	G	-
41	R	-
42	SB	-
43	L	-
44	R	-
45	G	-
51	SB	-
52	BG	-
53	R	-
54	GR	-
60	L	-
61	P	-
62	L	-
63	Y	-
64	LG	-
69	P	-
70	L	-
71	Y	-

80	L	-
81	G	-
82	BR	-
83	B	-
84	V	-
85	SB	-
86	SHIELD	-
87	W	-
96	Y	-
98	G	-
99	V	-
100	W	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FELC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (FL)
2	R	POWER WINDOW POWER SUPPLY(BAT)
3	W	POWER WINDOW POWER SUPPLY(RAP)

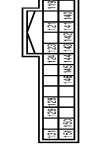
Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP

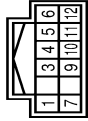
8	V	ALL DOOR, FUEL LID, LOCK OUTPUT
9	G	DRIVER DOOR, FUEL LID UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
14	P	PUSH-BUTTON/IGNITION SW ILL GND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT) OUTPUT
18	BG	TURN SIGNAL LH (FRONT) OUTPUT
19	V	ROOM LAMP TIMER CONTROL

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



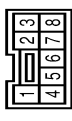
Terminal No.	Color Of Wire	Signal Name [Specification]
113	P	OPTICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	R	KEY SLOT SW
123	BR	IGN F/B
124	LG	PASSENGER DOOR SW
128	P	DOOR LOCK/UNLOCK SW LOCK
129	BG	TRUNK CANCEL SW
131	BR	DOOR LOCK/UNLOCK SW UNLOCK
133	W	PUSH-BUTTON/IGNITION SW ILL POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	RECEIVERSENSOR POWER SUPPLY
140	BR	SHIFT LMP
141	G	SECURITY INDICATOR
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	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER/RELAY CONT

Connector No.	M125
Connector Name	CAN GATEWAY
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CANH
3	W	BATTERY
4	L	CANH
5	B	GROUND
6	L	CANH
7	P	CANL
9	R	IGNITION
10	P	CANL
11	B	GROUND
12	P	CANL

Connector No.	M131
Connector Name	PUSH-BUTTON/IGNITION SWITCH
Connector Type	TK08FBR



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

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

Connector No.	M149
Connector Name	CONSOLE POWER SOCKET
Connector Type	F01FE-A



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

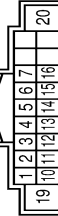
Connector No.	M233
Connector Name	AV CONTROL UNIT
Connector Type	TH2FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
65	R	PARKING BRAKE
67	W	COMPOSITE IMAGE GND
68	R	COMPOSITE IMAGE SIGNAL
71	SHIELD	MICROPHONE GND
72	L	MICROPHONE VCC
73	V	COMM (CONT-DISP)
74	P	CANL
75	R	AV COMM (L)
76	R	AV COMM (U)
79	R	ILLUMINATION
80	W	IGNITION
81	BG	REVERSE
82	V	VEHICLE SPEED (8 PULSE)
83	SHIELD	SHIELD
84	B	COMPOSITE SYNCHRONIZING SIGNAL
87	P	MICROPHONE SIGNAL
88	SHIELD	SHIELD
89	SB	COMM (DISP-CONT)
90	L	CANH

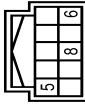
91	G	AV COMM (H)
92	G	AV COMM (H)

Connector No.	M206
Connector Name	AV CONTROL UNIT
Connector Type	NH18FW-GS2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	AUDIO AMP-ON SIGNAL
2	L	AUDIO SIGNAL FRONT LH (+)
3	P	AUDIO SIGNAL FRONT LH (-)
4	V	AUDIO SIGNAL REAR LH (+)
5	LG	AUDIO SIGNAL REAR LH (-)
6	V	STRG SW A
7	V	ACC POWER SUPPLY
10	B	SHIELD
11	R	AUDIO SIGNAL FRONT RH (+)
12	G	AUDIO SIGNAL FRONT RH (-)
13	BR	AUDIO SIGNAL REAR RH (+)
14	Y	AUDIO SIGNAL REAR RH (-)
15	GR	STRG SW GND
16	SB	STRG SW B
19	Y	BATTERY
20	B	GROUND

Connector No.	R9
Connector Name	AUTO-ANTI-DIZZING INSIDE MIRROR
Connector Type	TH10FB-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
5	BV	BAT
8	BR	IGN
8	B	GND

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POWER SUPPLY ROUTING CIRCUIT

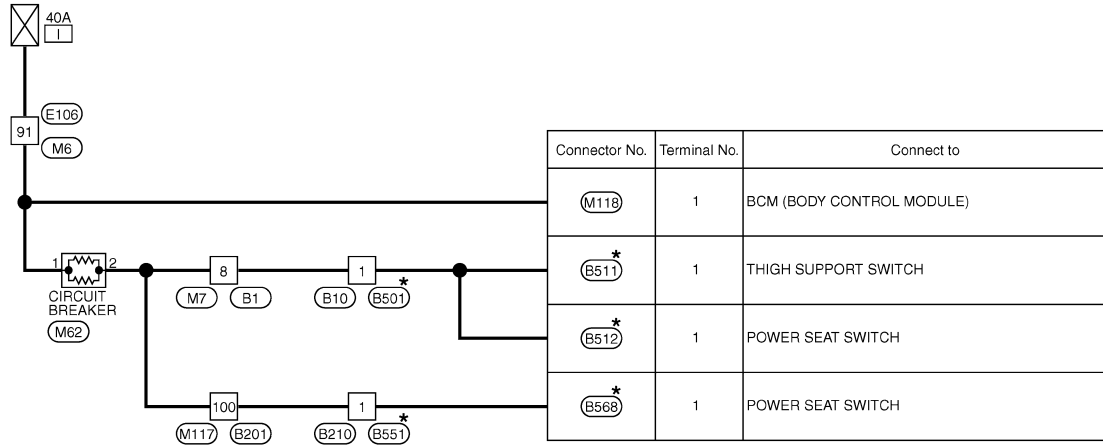
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - BATTERY POWER SUPPLY FUSIBLE LINK No. 1 -

INFOID:000000011488190

BATTERY POWER SUPPLY FUSIBLE LINK No. 1



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

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

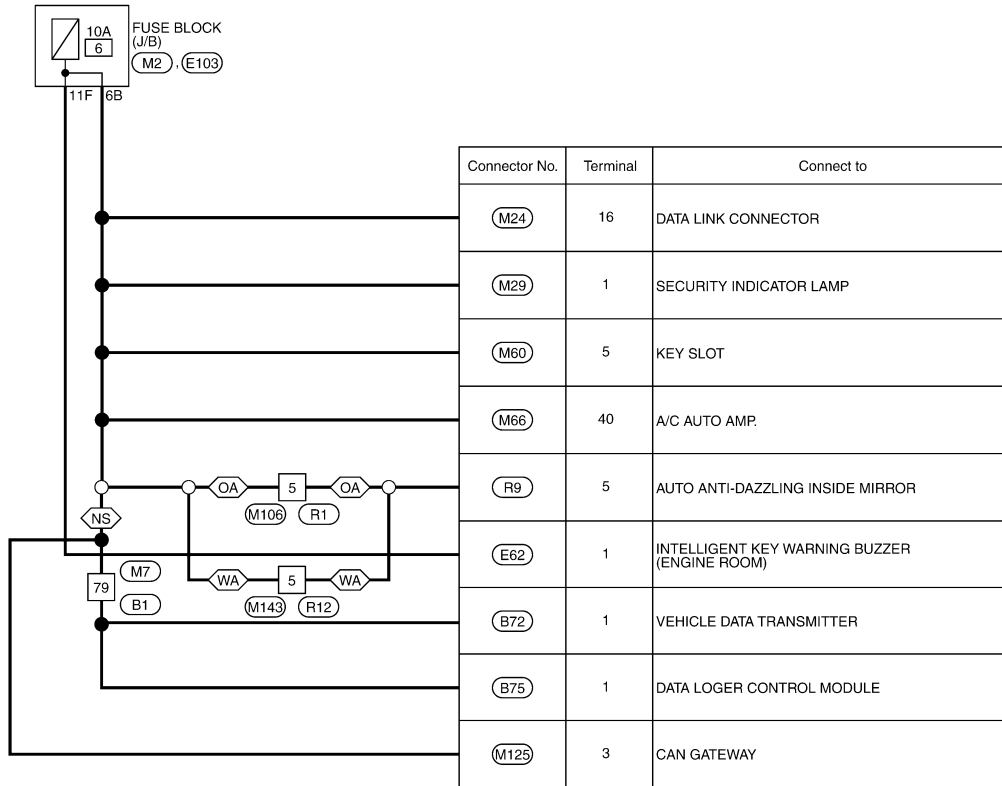
[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 6 -

INFOID:000000011488191

BATTERY POWER SUPPLY FUSE No. 6

<OA> : Without active noise control
 <WA> : With active noise control
 <NS> : For NISMO



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POWER SUPPLY ROUTING CIRCUIT

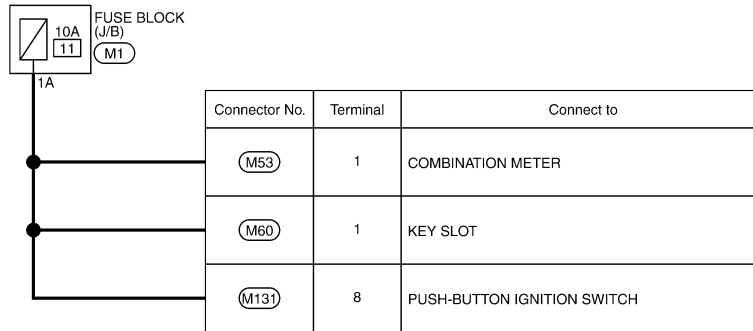
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 11 -

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BATTERY POWER SUPPLY FUSE No. 11



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POWER SUPPLY ROUTING CIRCUIT

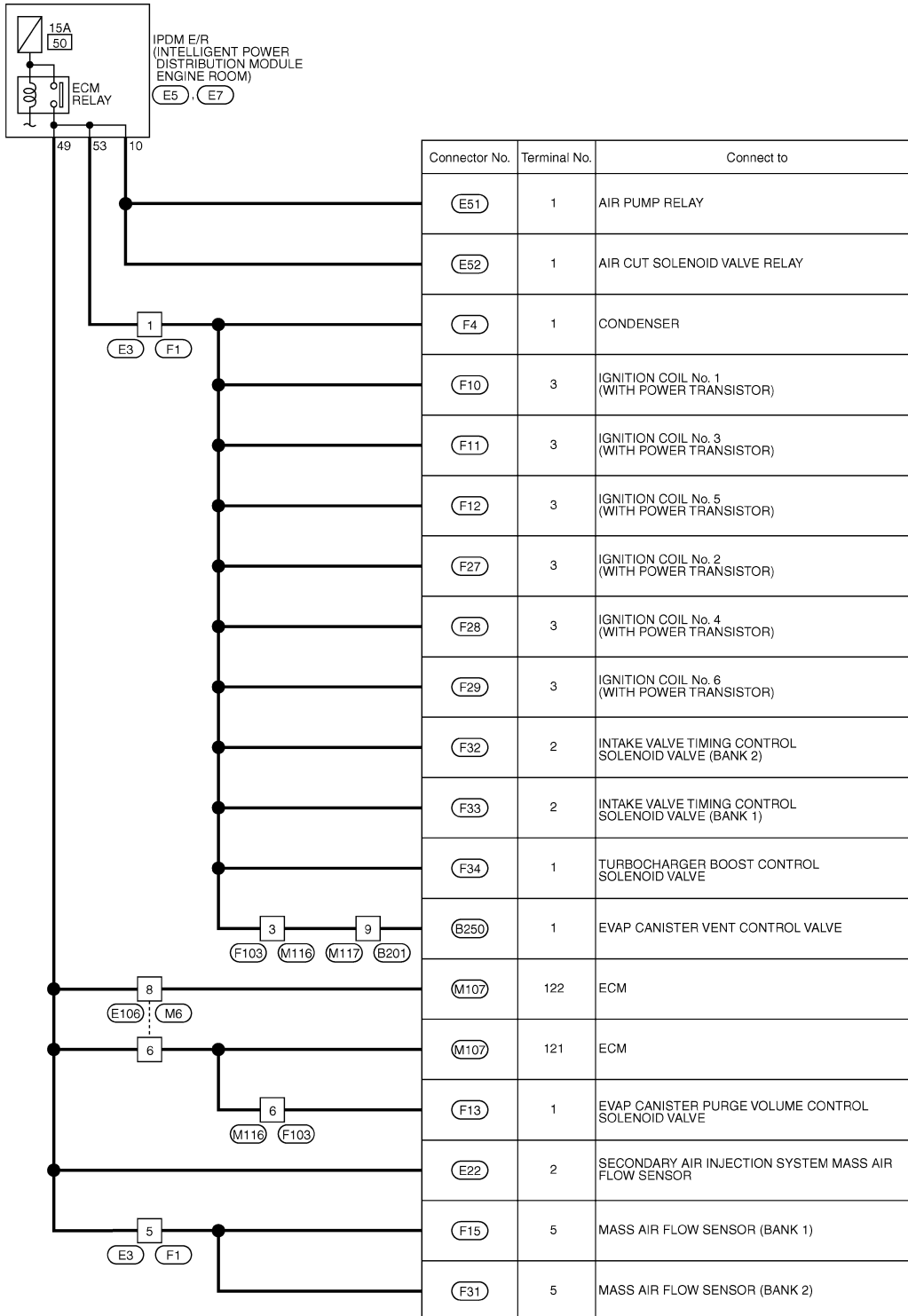
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 50 -

INFOID:000000011488194

BATTERY POWER SUPPLY FUSE No. 50



2008/11/21

JCMWA3893GB

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POWER SUPPLY ROUTING CIRCUIT

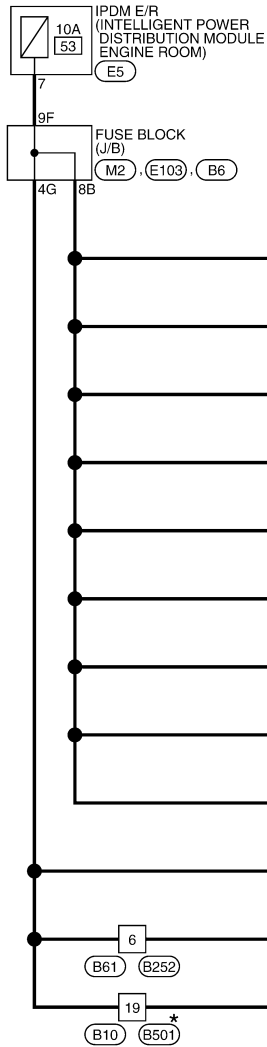
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 53 -

INFOID:000000011488195

BATTERY POWER SUPPLY FUSE No. 53



Connector No.	Terminal No.	Connect to
(M12)	10	DOOR MIRROR REMOTE CONTROL SWITCH
(M20)	3	TRUNK LID OPENER SWITCH
(M35)	23	COMBINATION SWITCH (SPIRAL CABLE)
(M54)	4	METER CONTROL SWITCH
(M72)	4	MULTIFUNCTION SWITCH
(M73)	2	SET-UP SWITCH
(M102)	1	GLOVE BOX LAMP
(M149)	3	CONSOLE POWER SOCKET
(M203)	79	AV CONTROL UNIT
(B20)	17	A/T SHIFT SELECTOR
(B570)*	19	HEATED SEAT SWITCH
(B513)*	19	HEATED SEAT SWITCH

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

2014/10/01

JRMWG8046GB

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

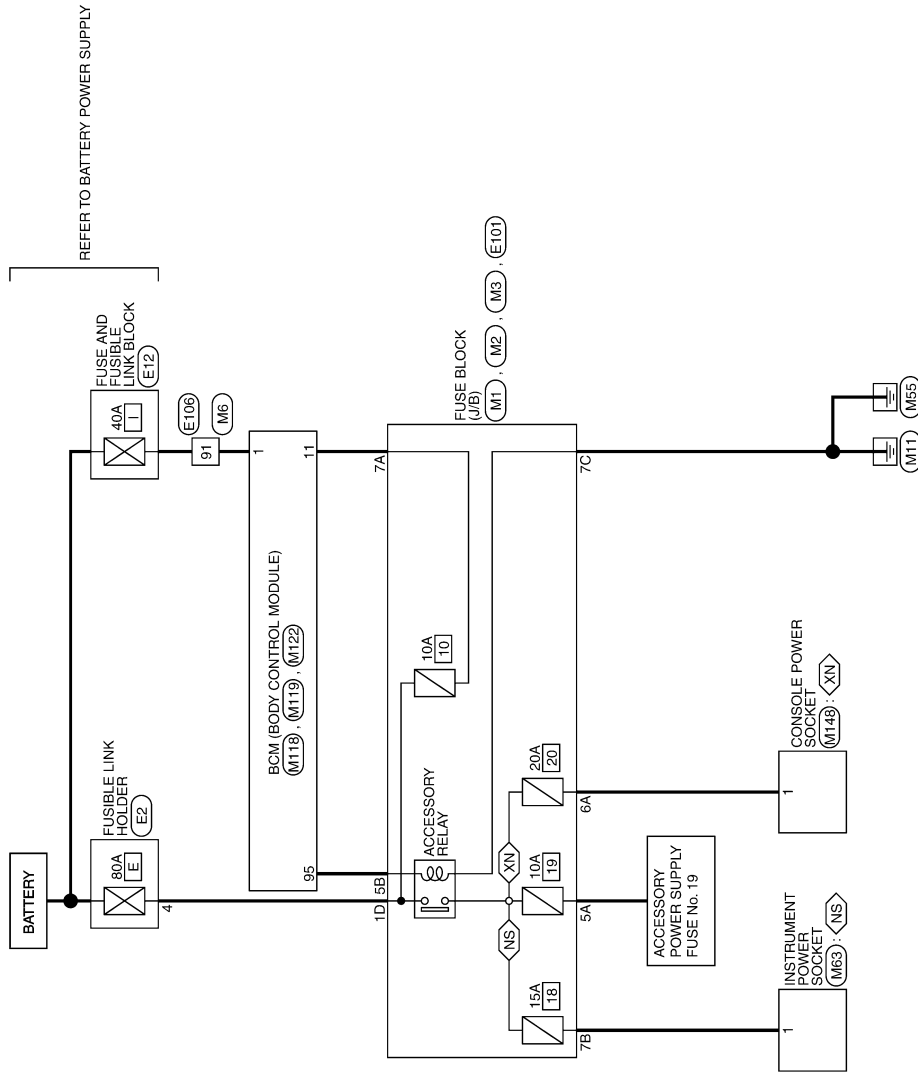
[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:000000011488196

ACCESSORY POWER SUPPLY

NS : For NISMO
XN : Except for NISMO



REFER TO BATTERY POWER SUPPLY

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2014/10/01

JRMWG8047GB

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

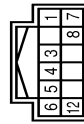
ACCESSORY POWER SUPPLY

Connector No.	B25
Connector Name	BOSE AMP.
Connector Type	TH40FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
43	B	REAR MICROPHONE SIGNAL GROUND
44	R	VOICE GUIDANCE SIGNAL (-)
45	P	AUDIO SIGNAL RH (-)
46	G	AUDIO SIGNAL RH (+)
52	B	FRONT MICROPHONE SIGNAL GROUND
54	R	AV COMMUNICATION SIGNAL (L)
56	V	ACC POWER SUPPLY
63	R	REAR MICROPHONE SIGNAL
64	G	VOICE GUIDANCE SIGNAL (+)
65	L	AUDIO SIGNAL LH
66	R	AUDIO SIGNAL RH
72	SB	FRONT MICROPHONE SIGNAL
74	W	AV COMMUNICATION SIGNAL (H)
76	W	STEP LAMP SIGNAL
78	G	ENGINE SPEED SIGNAL
79	SHIELD	SHIELD

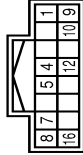
Connector No.	B72
Connector Name	VEHICLE DATA TRANSMITTER
Connector Type	TH12FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY
3	L	IT COMMUNICATION (H)
4	P	IT COMMUNICATION (L)

5	L	CAN-H
6	P	CAN-L
7	G	IGN SIGNAL
8	SB	ACC POWER SUPPLY
12	B	GROUND

Connector No.	B75
Connector Name	DATA LOGGER CONTROL MODULE
Connector Type	TH16FW-NH



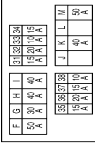
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY
4	R	LOGGING (LED-RED)
5	Y	GPS (LED-GREEN)
7	L	IT COMMUNICATION SIGNAL (H)
8	P	IT COMMUNICATION SIGNAL (L)
9	G	IGN SIGNAL
10	SB	ACC POWER SUPPLY
12	L	DATA LOGGER SWITCH
16	B	GROUND

Connector No.	E2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FGY-MC



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

Connector No.	E12
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	24381-7990/A



Terminal No.	Color Of Wire	Signal Name [Specification]
31	P	-
32	BG	-
33	Y	-
34	Y	-
35	W	-
36	R	-
37	V	-
38	P	-
F	BG	-
G	LG	-
H	R	-
I	GR	-
K	W	-
M	P	-

Connector No.	E101
Connector Name	FUSE BLOCK (UB)
Connector Type	L01FW-MC



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



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

POWER SUPPLY ROUTING CIRCUIT

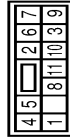
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

ACCESSORY POWER SUPPLY

86	GR	-
87	R	-
88	L	-
89	G	-
90	P	-
91	W	-
92	R	-
93	LG	-
94	W	-
95	SB	-
96	L	-
97	L	-
98	Y	-
99	BG	-
100	L	-

Connector No.	M12
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	MS2FW-CS



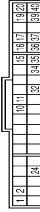
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	Y	-
3	SB	-
4	G	-
5	W	-
6	G	-
7	W	-
8	BG	-
9	L	-
10	R	-
11	V	-

Connector No.	M63
Connector Name	INSTRUMENT POWER SOCKET
Connector Type	P02FBZ



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

Connector No.	M66
Connector Name	A/C AUTO AMP.
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CAN-H
2	P	CAN-L
10	L	A/C LAN SIGNAL
11	R	EACH DOOR MOTOR POWER SUPPLY
15	BG	SUNLOAD SENSOR SIGNAL
16	R	INTAKE SENSOR SIGNAL
17	SB	ACC POWER SUPPLY
19	B	GROUND
20	G	IGNITION POWER SUPPLY
24	BG	ECV SIGNAL
32	L	BLOWER MOTOR CONTROL SIGNAL
34	Y	A/C AUTO AMP CONNECTOR CONTROL SIGNAL
35	P	AMBIENT SENSOR SIGNAL
36	LG	IN-VEHICLE SENSOR SIGNAL
37	BG	SENSOR GROUND
39	B	GROUND
40	Y	BATTERY POWER SUPPLY

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	P	ILL
5	P	ILL CONT
6	G	AV COMM (H)
8	R	AV COMM (L)
9	BR	SW GND
14	SB	DISK EJECT SIGNAL

Connector No.	M93
Connector Name	DISPLAY UNIT
Connector Type	TH24FW-NH



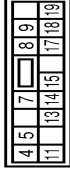
Terminal No.	Color Of Wire	Signal Name [Specification]
6	SHIELD	SHIELD
7	SHIELD	SHIELD
8	W	CAMERA IMAGE SIGNAL
9	SB	COMM DISP CONT
10	V	COMM CONT-DISP
11	Y	BATTERY
12	B	GROUND
18	R	COMPOSITE IMAGE SIGNAL
19	W	COMPOSITE IMAGE GND
20	B	COMPOSITE SYNCHRONIZING SIGNAL
22	SHIELD	SHIELD
23	P	ACC

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FBLC



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	BAT (ELL)
2	R	POWER WINDOW POWER SUPPLY (BAT)
3	W	POWER WINDOW POWER SUPPLY (BAT)

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	MS16FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GND
14	P	PUSH-BUTTON (IGNITION SW) ILL GND
15	V	ACC IND
17	W	TURN SIGNAL RH FRONT OUTPUT
18	BG	TURN SIGNAL LH FRONT OUTPUT
19	V	ROOM LAMP TIMER CONTROL

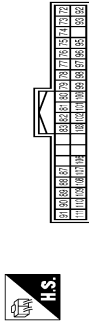
POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

ACCESSORY POWER SUPPLY

Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	1H40FB-NH



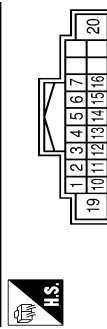
Connector No.	M148
Connector Name	CONSOLE POWER SOCKET
Connector Type	P02FB-Z



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

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

Connector No.	M206
Connector Name	AV CONTROL UNIT
Connector Type	NH18FW-2S2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	AUDIO AMP. ON SIGNAL
2	L	AUDIO SIGNAL FRONT LH (+)
3	P	AUDIO SIGNAL FRONT LH (-)
4	V	AUDIO SIGNAL REAR LH (+)
5	LG	AUDIO SIGNAL REAR LH (-)
6	V	STRG SW A
7	V	ACC POWER SUPPLY
10	B	SHIELD
11	R	AUDIO SIGNAL FRONT RH (+)
12	G	AUDIO SIGNAL FRONT RH (-)
13	BR	AUDIO SIGNAL REAR RH (+)
14	Y	AUDIO SIGNAL REAR RH (-)
15	GR	STRG SW GND
16	SB	STRG SW B
19	Y	BATTERY
20	B	GROUND

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POWER SUPPLY ROUTING CIRCUIT

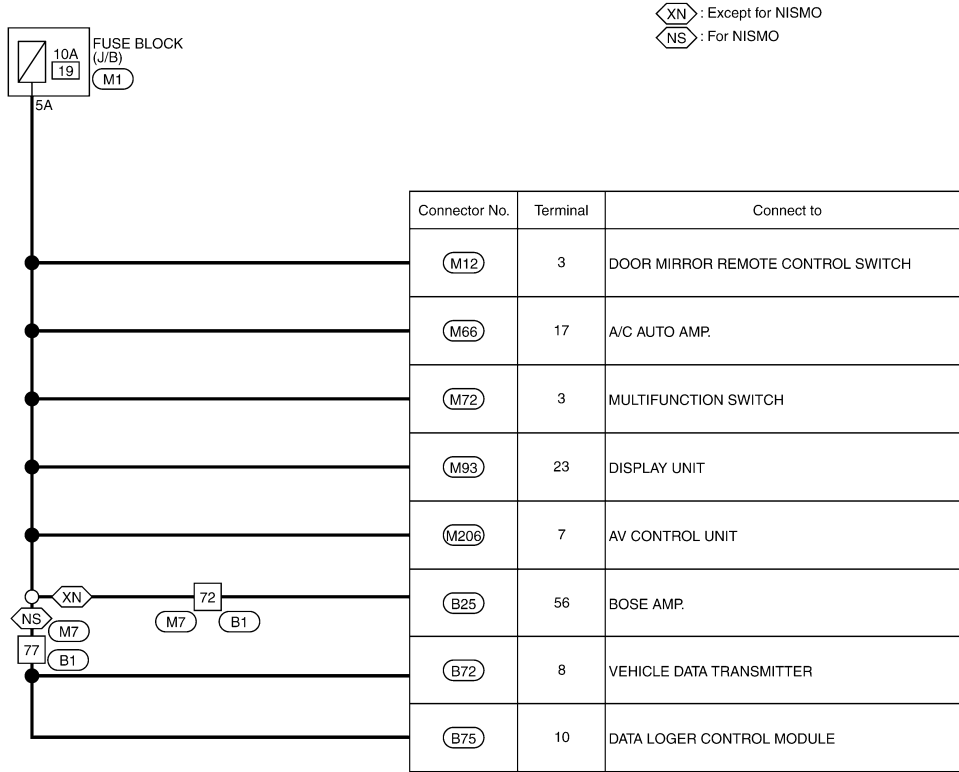
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 19 -

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ACCESSORY POWER SUPPLY FUSE No. 19



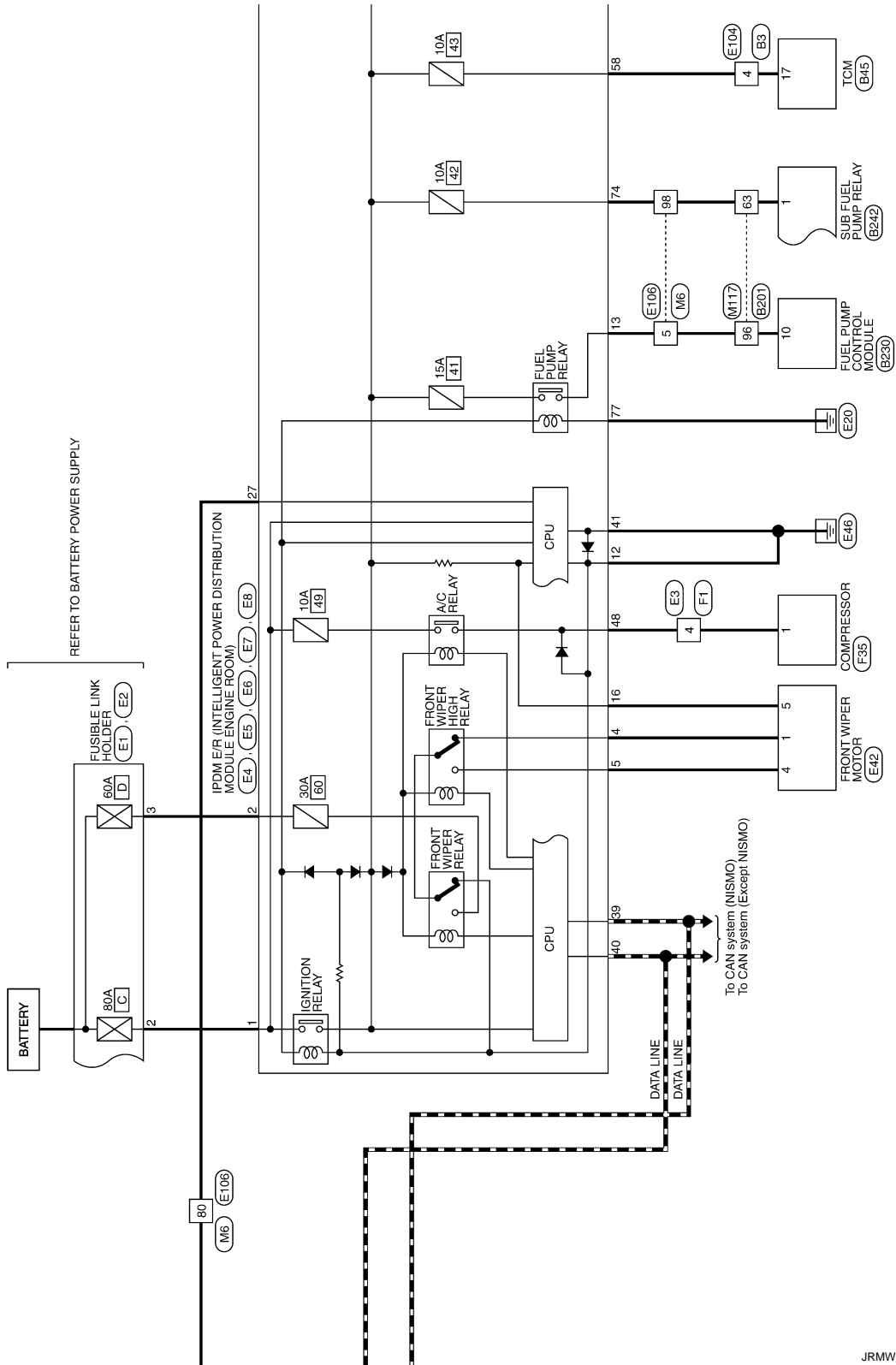
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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



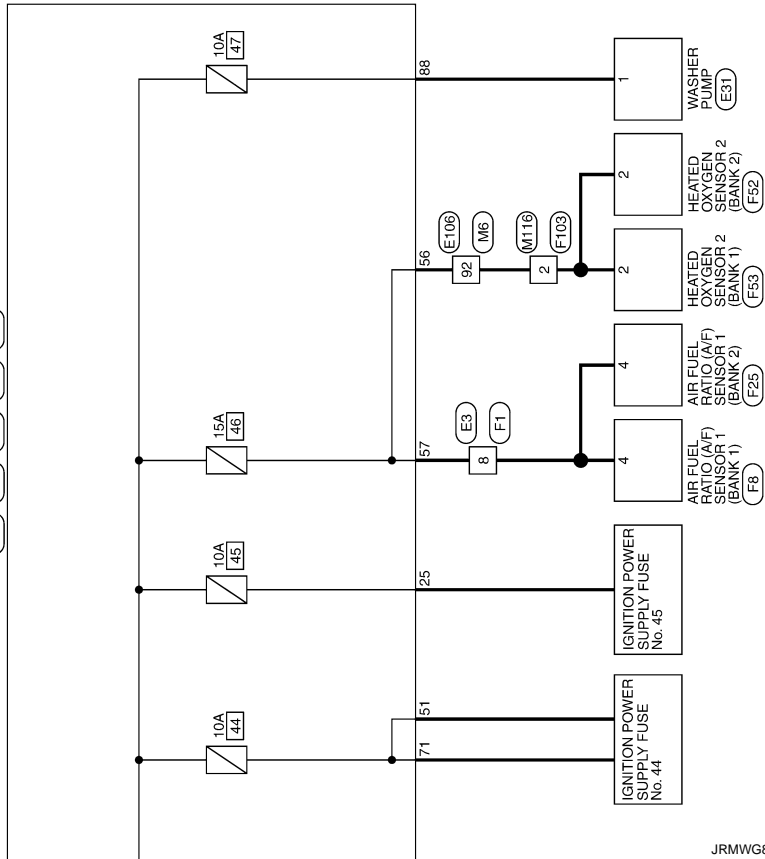
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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IPDM E/R (INTELLIGENT POWER DISTRIBUTION
MODULE ENGINE ROOM)
(E4), (E5), (E6), (E7), (E8)



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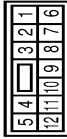
POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS



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

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBRCS



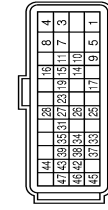
Terminal No.	Color	Wire	Signal Name [Specification]
10G	BG	-	-
4G	P	-	-
5G	W	-	-

Connector No.	B20
Connector Name	A/T SHIFT SELECTOR
Connector Type	TR24FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	GR	-	BCM VCC-IN
2	BG	-	KEY (LOCK/P)
3	B	-	GROUND
4	G	-	RANGE SENSOR No. - SIGNAL
5	B	-	GROUND
6	V	-	RANGE SENSOR No. 1 SIGNAL
7	G	-	RANGE SENSOR No. 3 SIGNAL
8	GR	-	RANGE SENSOR No. 5 SIGNAL
9	Y	-	VIGN
10	W	-	SHIFT LOCK SOLENOID CONTROL SIGNAL
11	LG	-	RANGE SENSOR POWER SOURCE 2
12	L	-	RANGE SENSOR POWER SOURCE 1
13	R	-	ILLUMINATION
14	B	-	GROUND
15	BR	-	AUTOMANUAL RANGE CHANGE SWITCH 1 SERIAL
16	P	-	RANGE SENSOR No. 4 SIGNAL
17	BR	-	ILLUMINATION GND
18	R	-	RANGE SENSOR No. 2 SIGNAL
19	V	-	AUTOMANUAL RANGE CHANGE SWITCH 2 SERIAL

Connector No.	B5
Connector Name	BACK-UP LAMP RELAY
Connector Type	MO6FBR-RLC



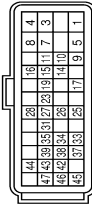
Terminal No.	Color	Wire	Signal Name [Specification]
1	W	-	POWER SUPPLY (MEMORY BACK-UP)-2
2	B	-	GROUND
3	B	-	GROUND
4	B	-	GROUND
5	W	-	POWER SUPPLY (MEMORY BACK-UP)-3
6	B	-	GROUND
7	B	-	GROUND
8	B	-	GROUND
9	P	-	POWER SUPPLY (MEMORY BACK-UP)-1
10	LG	-	BACK-UP LAMP SIGNAL
11	L	-	CANH
12	V	-	POWER OFF
13	P	-	CANL
14	W	-	STOP LAMP SWITCH SIGNAL
15	W	-	IGNITION SWITCH SIGNAL
16	Y	-	STARTER RELAY SIGNAL
17	GR	-	IGNITION SWITCH SIGNAL
18	BR	-	AUTOMANUAL RANGE CHANGE SWITCH SERIAL
19	GR	-	STARTER RELAY SIGNAL
20	L	-	RANGE SENSOR POWER SOURCE 1
21	LG	-	RANGE SENSOR POWER SOURCE 2
22	G	-	RANGE SENSOR NO. - SIGNAL

Connector No.	B33
Connector Name	CONDENSER
Connector Type	MO1FW-LC



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

Connector No.	B45
Connector Name	TCM
Connector Type	RH40FB-R2B-L-LHZ



28	V	-	AUTOMANUAL RANGE CHANGE SWITCH 2 SERIAL
29	SB	-	ENGINE SPEED SIGNAL
30	V	-	RANGE SENSOR NO. 1 SIGNAL
31	BG	-	SAVE MODE SWITCH SIGNAL
32	G	-	RANGE SENSOR NO. 3 SIGNAL
33	GR	-	R MODE SWITCH SIGNAL
34	R	-	RANGE SENSOR NO. 2 SIGNAL
35	W	-	PADDLE SHIFTER (SHIFT UP SWITCH) SIGNAL
36	L	-	PADDLE SHIFTER (SHIFT DOWN SWITCH) SIGNAL
37	P	-	RANGE SENSOR NO. 4 SIGNAL
38	GR	-	R MODE LAMP SIGNAL
39	BG	-	R MODE LAMP SIGNAL
40	W	-	SHIFT LOCK SOLENOID CONTROL SIGNAL
41	G	-	SAVE MODE LAMP SIGNAL

Connector No.	B55
Connector Name	BACK-UP LAMP RELAY
Connector Type	MO6FBR-RLC



Terminal No.	Color	Wire	Signal Name [Specification]
1	G	-	-
2	LG	-	-
6	P	-	-
7	Y	-	-

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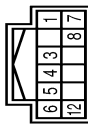
POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

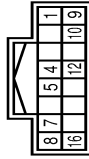
IGNITION POWER SUPPLY

Connector No.	B722
Connector Name	VEHICLE DATA TRANSMITTER
Connector Type	TH12FW-NH



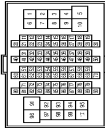
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY
2	L	IT COMMUNICATION (H)
3	P	IT COMMUNICATION (L)
4	L	CAN-H
5	P	CAN-L
6	G	IGN SIGNAL
7	G	ACC POWER SUPPLY
8	SB	GROUND
12	B	GROUND

Connector No.	B75
Connector Name	DATA LOGGER CONTROL MODULE
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	BATTERY
4	R	LOGGING (LED-RED)
5	Y	GPS (LED-GREEN)
7	L	IT COMMUNICATION SIGNAL (H)
8	P	IT COMMUNICATION SIGNAL (L)
9	G	IGN SIGNAL
10	SB	ACC POWER SUPPLY
12	L	DATA LOGGER SWITCH
16	B	GROUND

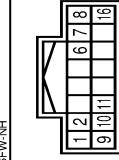
Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-2S16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	V
2	G	V
3	RG	V
4	W	V
5	R	V
6	V	SOL+
7	BR	SOL-
8	L	IGN
9	P	CANH
10	R	CANL
11	V	IGN SIGNAL
12	LG	ACC POWER SUPPLY
13	BR	GROUND
14	L	IGN
15	P	CANH
16	GR	CANL
17	Y	SOLV
18	Y	SOLV
19	B	GROUND
20	B	GROUND
21	B	GROUND
22	P	CANL
23	W	V
24	W	V
25	W	V
26	W	V
27	W	V
28	W	V
29	W	V
30	W	V
31	V	SOL+
32	LG	SOL-
33	BR	SOL-
34	L	IGN
35	L	IGN
36	P	CANH
37	P	CANL
38	GR	CANL
39	Y	SOLV
40	Y	SOLV
41	Y	SOLV
42	Y	SOLV
43	Y	SOLV
44	V	SOL+
45	V	SOL+
46	W	V
47	W	V
48	W	V
49	W	V
50	W	V
51	SB	GROUND
52	G	V
53	BR	V
54	V	SOL+
55	V	SOL+
56	R	V
57	R	V
58	R	V
59	P	CANL
60	R	V
61	P	CANL
62	L	IGN
63	LG	SOL-
64	GR	CANL
65	P	CANL
66	P	CANL
67	L	IGN
68	L	IGN
69	P	CANL
70	L	IGN
71	R	V
72	R	V
73	R	V
74	R	V
75	R	V
76	R	V
77	R	V
78	R	V
79	R	V
80	L	IGN
81	SB	GROUND
82	V	SOL+
83	B	GROUND
84	V	SOL+
85	V	SOL+
86	BR	V
87	W	V
88	W	V
89	W	V
90	W	V
91	W	V
92	W	V
93	W	V
94	W	V
95	W	V
96	Y	SOL+

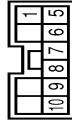
98	BG	-
99	BR	-
100	W	-

Connector No.	B213
Connector Name	AWD CONTROL UNIT
Connector Type	TH16FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	SOL+
2	G	SOL-
3	V	SOL+
4	V	SOL+
5	V	SOL+
6	V	SOL+
7	W	IGN
8	L	CANH
9	Y	SOLV
10	B	GROUND
11	B	GROUND
12	B	GROUND
13	P	CANL
14	P	CANL
15	P	CANL
16	P	CANL

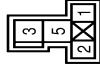
Connector No.	B230
Connector Name	FUEL PUMP CONTROL MODULE
Connector Type	TM10FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	SHIELD
2	SHIELD	SHIELD
3	B	GROUND
4	G	FUEL PUMP(-)
5	BR	FUEL PUMP(+)
6	BR	FUEL PUMP(+)
7	BR	FUEL PUMP(+)
8	V	FFC INPUT SIGNAL
9	SB	DIAG OUTPUT SIGNAL

10	Y	BATTERY
----	---	---------

Connector No.	B242
Connector Name	SUB FUEL PUMP RELAY
Connector Type	MS02FL-M2



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

Connector No.	B253
Connector Name	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
Connector Type	TH8FW-NH



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

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PG

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



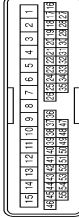
Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	W	-
4	W	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	O	-
13	LG	-
14	SB	-
15	B	-
16	G	-
17	R	-
27	SHIELD	-
36	O	-
38	W	-
40	GR	-
41	GR	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	RH48MB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	-
2	Y	-
3	G	-
4	W	-
5	B	-
7	R	-
8	L	-

Connector No.	D31
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



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

15	B	-
16	R	-
17	G	-
27	SHIELD	-
36	O	-
38	W	-
40	LG	-
41	GR	-
42	BR	-
44	L	-
45	Y	-
46	R	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

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

Connector No.	D33
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	RH48MB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	-
2	Y	-
3	G	-
4	W	-
5	B	-
7	R	-
8	L	-

Connector No.	E1
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FBR-MC



Connector No.	E2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FGY-MC



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

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

Connector No.	E3
Connector Name	WIRE TO WIRE
Connector Type	RS08FB-FR



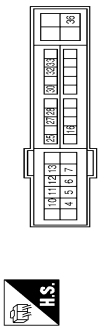
Terminal No.	Color Of Wire	Signal Name [Specification]
1	SB	-
2	LG	-
3	W	-
4	L	-
5	P	-
6	V	-
7	SHIELD	-
B	G	-

Connector No.	E4
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	I02FB-MC



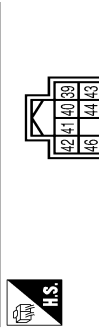
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	Y	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
4	V	-
5	Y	-
6	R	-
7	L	-
8	G	-
9	P	-
10	W	-
11	SB	-
12	BR	-
13	R	-
16	LG	-
25	BG	-
27	Y	-
28	G	-
30	GR	-
32	L	-
33	P	-
36	LG	-

Connector No.	E5
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH08FW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
39	P	-
40	L	-
41	BY	-
42	G	-

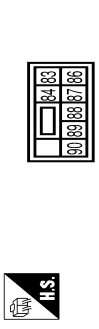
43	SB	-
44	W	-
46	BG	-

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



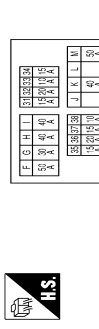
Terminal No.	Color Of Wire	Signal Name [Specification]
48	L	-
49	P	-
51	LG	-
53	SB	-
54	W	-
55	BG	-
56	R	-
57	G	-
58	Y	-
69	BG	-
70	G	-
71	SB	-
74	LG	-
76	P	-
77	BR	-
80	W	-

Connector No.	E8
Connector Name	POWER INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	NS08FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
83	R	-
84	P	-
85	W	-
86	W	-
87	L	-
88	G	-
89	BR	-
90	BG	-

Connector No.	E12
Connector Name	FUSE AND FUSIBLE LINK BLOCK
Connector Type	24381-7990A



Terminal No.	Color Of Wire	Signal Name [Specification]
31	P	-
32	BG	-
33	L	-
34	Y	-
35	W	-
36	R	-
37	V	-
38	P	-
F	BG	-
G	LG	-
H	R	-
I	GR	-
K	W	-

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

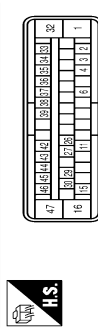
M	P	-
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Connector No.	E31
Connector Name	WASHER PUMP
Connector Type	E02FGY-RS



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

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	AEZ43FB-AJZ4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	UBNR
2	V	DIAG-K
3	GR	VDC OFF SW
4	W	BLS
6	G	VDC_UP SW
11	Y	CANH
15	B	CANL
16	B	GROUND
26	W	CANL
27	BR	GROUND
29	EG	G SENSOR GROUND
30	L	UP
31	L	CANH
32	BG	UBVR
33	W	DS FR
34	BG	DP FR

Terminal No.	Color Of Wire	Signal Name [Specification]
35	Y	VDC TOP POSITION LED
36	L	DP FL
37	R	DS RL
38	V	BRAKE FLUID LEVEL SW
39	G	G SENSOR POWER
42	V	DS RR
43	LG	DP RR
44	SB	VDC TOP POSITION LED
45	W	DP FL
46	R	DS FL
47	B	GROUND

Connector No.	E42
Connector Name	FRONT WIPER MOTOR
Connector Type	HS6FEY



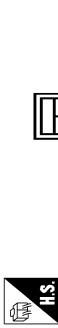
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	BW	-
4	L	-
5	LG	-

Connector No.	E101
Connector Name	FUSE BLOCK (JIB)
Connector Type	L01FW-MC



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

Connector No.	E102
Connector Name	FUSE BLOCK (JIB)
Connector Type	M02FBL-C



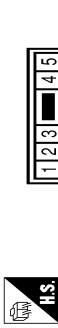
Terminal No.	Color Of Wire	Signal Name [Specification]
1E	LG	-

Connector No.	E103
Connector Name	FUSE BLOCK (JIB)
Connector Type	NS16FW-CS



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80FM-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
3	BG	-
4	BG	-
5	B	-
6	P	-
7	BG	-
8	P	-
9	W	-

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

10	Y	-	-	-	-
11	SB	-	-	-	-
12	BG	-	-	-	-
13	P	-	-	-	-
14	L	-	-	-	-
15	SB	-	-	-	-
16	BG	-	-	-	-
17	SHIELD	-	-	-	-
18	L	-	-	-	-
19	P	-	-	-	-
20	B	-	-	-	-
21	Y	-	-	-	-
22	V	-	-	-	-
23	Y	-	-	-	-
24	V	-	-	-	-
25	BR	-	-	-	-
26	BR	-	-	-	-
27	SHIELD	-	-	-	-
28	G	-	-	-	-
29	R	-	-	-	-
30	W	-	-	-	-
31	V	-	-	-	-
32	G	-	-	-	-
33	GR	-	-	-	-
34	P	-	-	-	-
35	LG	-	-	-	-
36	G	-	-	-	-
37	Y	-	-	-	-
38	SB	-	-	-	-
39	GR	-	-	-	-
40	G	-	-	-	-
41	V	-	-	-	-
42	V	-	-	-	-
43	L	-	-	-	-
44	BR	-	-	-	-
45	G	-	-	-	-
46	SB	-	-	-	-
48	BG	-	-	-	-
49	L	-	-	-	-
50	R	-	-	-	-
51	SHIELD	-	-	-	-
60	P	-	-	-	-
61	L	-	-	-	-
71	LG	-	-	-	-
72	SB	-	-	-	-
74	P	-	-	-	-
75	BR	-	-	-	-
76	LG	-	-	-	-
77	V	-	-	-	-
78	BR	-	-	-	-

79	W	-	-	-	-
80	Y	-	-	-	-
81	GR	-	-	-	-
82	BG	-	-	-	-
84	P	-	-	-	-
85	P	-	-	-	-
86	GR	-	-	-	-
87	R	-	-	-	-
88	L	-	-	-	-
89	BG	-	-	-	-
90	G	-	-	-	-
91	GR	-	-	-	-
92	R	-	-	-	-
93	R	-	-	-	-
94	LG	-	-	-	-
95	G	-	-	-	-
96	GR	-	-	-	-
97	L	-	-	-	-
98	LG	-	-	-	-
99	BG	-	-	-	-
100	L	-	-	-	-

Connector No.	E109
Connector Name	ASC/D BRAKE SWITCH
Connector Type	MS2FER-LC



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

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	RS08MB-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	LG	-
3	Y	-
4	O	-
5	R	-
6	V	-
7	SHIELD	-
8	P	-

Connector No.	F8
Connector Name	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 1)
Connector Type	AFZ04FDGY



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

Connector No.	F25
Connector Name	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 2)
Connector Type	AFZ04FDGY



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

Connector No.	F35
Connector Name	COMPRESSOR
Connector Type	RS01FB



Terminal No.	Color Of Wire	Signal Name [Specification]
1	O	MAGNET CLUTCH POWER SUPPLY

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

Connector No.	F38
Connector Name	COMPRESSOR
Connector Type	RK02FGY



Terminal No.	Color Of Wire	Signal Name [Specification]
2	Y	ECV POWER SUPPLY
3	O	ECV SIGNAL

Connector No.	F52
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 2)
Connector Type	AFZ04FB



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

Connector No.	F53
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 1)
Connector Type	AFZ04FB



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

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK36FW-NS10



Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
2	R	-
3	W	-
6	O	-
7	B	-
8	B	-
9	W	-
11	B	-
12	LG	-
13	SB	-
14	LG	-
15	G	-
16	W	-
18	GR	-
20	R	-
21	O	-

26	L	-
27	P	-
28	LG	-
29	R	-
30	L	-
31	R	-
32	W	-
33	W	-
34	Y	-
39	Y	-

Connector No.	F121
Connector Name	FUEL INJECTOR No. 1
Connector Type	HS02FGY



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

Connector No.	F122
Connector Name	FUEL INJECTOR No. 2
Connector Type	HS02FGY



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

Connector No.	F123
Connector Name	FUEL INJECTOR No. 3
Connector Type	HS02FGY



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

Connector No.	F124
Connector Name	FUEL INJECTOR No. 4
Connector Type	HS02FGY



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

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

Connector No.	F125
Connector Name	FUEL INJECTOR No. 5
Connector Type	HS02FGY



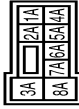
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	P	-

Connector No.	F126
Connector Name	FUEL INJECTOR No. 6
Connector Type	HS02FGY



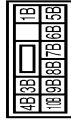
Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	-
2	LG	-

Connector No.	M1
Connector Name	FUSE BLOCK (UB)
Connector Type	NS08FW-M2



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

Connector No.	M2
Connector Name	FUSE BLOCK (UB)
Connector Type	NS10FW-CS



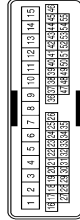
Terminal No.	Color Of Wire	Signal Name [Specification]
10B	Y	-
1B	R	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	R	-
8B	R	-
9B	SB	-

Connector No.	M3
Connector Name	FUSE BLOCK (UB)
Connector Type	NS12FW-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	R	-
12C	W	-
13C	R	-
7C	B	-
9C	BR	-

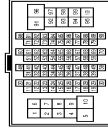
Connector No.	M5
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



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

16	BR	-
17	Y	-
27	SHIELD	-
36	L	-
38	V	-
40	GR	-
41	P	-
42	BR	-
43	SB	-
44	L	-
45	Y	-
46	BG	-
47	V	-
48	LG	-
50	R	-
54	W	-
55	G	-

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



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

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

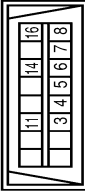
19	P	-	-
20	B	-	-
21	W	-	-
22	GR	-	-
23	L	-	-
24	V	-	-
25	BR	-	-
26	G	-	-
27	SHIELD	-	-
28	G	-	-
29	R	-	-
30	W	-	-
31	V	-	-
32	G	-	-
33	GR	-	-
34	LG	-	-
35	P	-	-
36	L	-	-
37	W	-	-
38	Y	-	-
39	GR	-	-
40	BG	-	-
41	W	-	-
42	R	-	-
43	Y	-	-
44	BR	-	-
45	G	-	-
46	LG	-	-
48	W	-	-
49	L	-	-
50	R	-	-
51	SHIELD	-	-
60	SB	-	-
61	V	-	-
71	W	-	-
72	LG	-	-
74	R	-	-
75	BR	-	-
76	LG	-	-
77	R	-	-
78	BR	-	-
79	W	-	-
80	Y	-	-
81	BG	-	-
82	SB	-	-
84	Y	-	-
85	P	-	-
86	GR	-	-
87	R	-	-
88	L	-	-

89	G	-	-
90	P	-	-
91	W	-	-
92	R	-	-
93	LG	-	-
94	W	-	-
95	SB	-	-
96	L	-	-
97	L	-	-
98	Y	-	-
99	BG	-	-
100	L	-	-

Connector No.	M14
Connector Name	LOW TIRE PRESSURE WARNING CONTROL UNIT
Connector Type	TH62PW-NH



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



Connector No.	M53
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color	Wire	Signal Name [Specification]
3	R	-	-
4	B	-	-
5	B	-	-
6	L	-	-
7	V	-	-
8	G	-	-
11	G	-	-
14	P	-	-
16	Y	-	-

Connector No.	M37
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH68FW-NH



Terminal No.	Color	Wire	Signal Name [Specification]
1	B	-	GROUND
2	P	-	IGN
4	BG	-	CANH
5	L	-	CANH

Terminal No.	Color	Wire	Signal Name [Specification]
1	V	-	BATTERY POWER SUPPLY
2	W	-	IGNITION POWER SUPPLY
3	B	-	GROUND
4	B	-	ILLUMINATION GROUND
5	B	-	GROUND
6	W	-	METER CONTROL SWITCH GROUND
7	Y	-	AG AUTO STOP CORRECTION CONTROL SIGNAL
8	SB	-	AMBIENT SENSOR GROUND
9	P	-	AMBIENT SENSOR GROUND
12	L	-	VEHICLE SPEED SIGNAL (2-PULSE)
13	V	-	VEHICLE SPEED SIGNAL (8-PULSE)
14	B	-	OIL PRESSURE SENSOR GROUND
15	R	-	AIR BAG SIGNAL
16	R	-	LED HEAD LAMP (LH) WARNING SIGNAL
18	L	-	FUEL LEVEL SENSOR GROUND
19	R	-	OIL LEVEL SENSOR GROUND
20	W	-	OIL LEVEL SENSOR SIGNAL
21	L	-	CANH
22	P	-	CANH
23	LG	-	ILLUMINATION CONTROL SWITCH SIGNAL (L)
24	BR	-	ILLUMINATION CONTROL SWITCH SIGNAL (R)
25	G	-	TRIP A/B RESET SWITCH SIGNAL
26	BG	-	ENTER SWITCH SIGNAL
27	SB	-	SELECT SWITCH SIGNAL
28	BR	-	ALTERNATOR
29	G	-	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
30	LG	-	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
31	V	-	PARKING BRAKE SWITCH SIGNAL
32	V	-	BRAKE FLUID LEVEL SWITCH SIGNAL
33	L	-	WASHER LEVEL SWITCH SIGNAL
34	GR	-	OIL PRESSURE SENSOR POWER
35	W	-	OIL PRESSURE SENSOR SIGNAL
38	BG	-	FUEL LEVEL SENSOR SIGNAL
39	Y	-	LED HEAD LAMP (LH) WARNING SIGNAL
40	V	-	ILLUMINATION CONTROL

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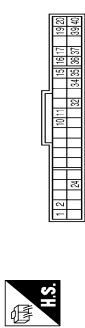
POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

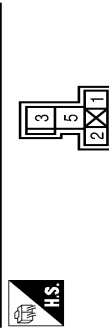
IGNITION POWER SUPPLY

Connector No.	M66
Connector Name	A/C AUTO AMP.
Connector Type	SAB40FW



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	CANH
2	P	CANL
10	L	A/C LAMP SIGNAL
11	R	EACH DOOR MOTOR POWER SUPPLY
15	BG	SUNLOAD SENSOR SIGNAL
16	R	INTAKE SENSOR SIGNAL
17	SB	ACC POWER SUPPLY
19	B	GROUND
20	G	IGNITION POWER SUPPLY
24	BG	ECV SIGNAL
32	L	BLOWER MOTOR CONTROL SIGNAL
34	Y	A/C AUTO AMP. CONNECTION/CONDITION SIGNAL
35	P	AMBIENT SENSOR SIGNAL
36	LG	IN-VEHICLE SENSOR SIGNAL
37	BG	SENSOR GROUND
39	B	GROUND
40	Y	BATTERY POWER SUPPLY

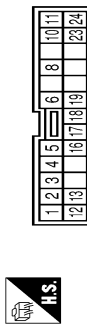
Connector No.	M70
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2-LC



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

5	L	-
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Connector No.	M73
Connector Name	SET-UP SWITCH
Connector Type	TK24FW-1V



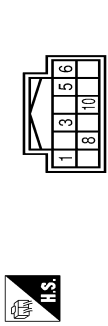
Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	VDC TOP POSITION LED
2	R	ILL-
3	W	VDC TOP POSITION LED
4	V	ILL GND
5	L	VDC UP SW
6	P	E-SUS R MODE SW SIG
8	LG	E-SUS COMF MODE LAMP SIG
10	G	SAVE MODE LAMP SIGNAL
11	W	R MODE SWITCH SIGNAL
12	GR	VDC DN SW
13	G	HAZARD SW
16	R	R MODE LAMP SIGNAL
17	B	SW GND
18	G	IGN
19	BG	E-SUS R MODE LAMP SIG
23	BR	SAVE MODE SWITCH SIGNAL
24	R	E-SUS COMF MODE SW SIG

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ8-R-LH-Z



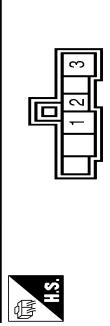
Terminal No.	Color Of Wire	Signal Name [Specification]
97	P	CAN COMMUNICATION LINE
99	SB	SENSOR POWER SUPPLY
100	BR	SENSOR POWER SUPPLY
101	L	CAN COMMUNICATION LINE
102	G	ASD2 STEERING SWITCH
103	GR	SENSOR GROUND
104	P	ACCELERATOR PEDAL POSITION SENSOR 1
105	W	ECM RELAY (SELF SHUT-OFF)
106	LG	IGNITION SWITCH
107	BG	SENSOR GROUND
108	L	ACCELERATOR PEDAL POSITION SENSOR 2
109	L	SAVALVERLY
110	P	STOP LAMP SWITCH
111	GR	PNP SIGNAL
113	SB	ENGINE SPEED OUTPUT SIGNAL
114	V	DATA LINK CONNECTOR
117	R	ASD2 BRAKE SWITCH
118	W	POWER SUPPLY FOR ECM (BACK-UP)
120	BR	SAFMPRLY
121	P	POWER SUPPLY FOR ECM
122	V	POWER SUPPLY FOR ECM
124	B	ECM GROUND
126	L	FUEL PUMP RELAY
127	G	THROTTLE CONTROL MOTOR RELAY
128	B	ECM GROUND

Connector No.	M108
Connector Name	POWER STEERING CONTROL UNIT
Connector Type	TH12FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	SOL
2	G	VIGN
5	B	SOL GND
6	B	GROUND
8	L	VSP
10	SB	TACHO

Connector No.	M109
Connector Name	BLOWER MOTOR
Connector Type	NS03FW-M3



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	BLOWER MOTOR POWER SUPPLY
2	L	BLOWER MOTOR CONTROL SIGNAL
3	B	GROUND

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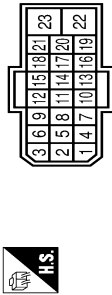
POWER SUPPLY ROUTING CIRCUIT

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[POWER SUPPLY & GROUND CIRCUIT]

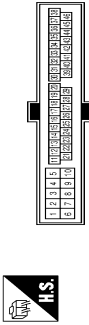
IGNITION POWER SUPPLY

Connector No.	M110
Connector Name	E-SUS CONTROL UNIT
Connector Type	FEC21FB-FHC2



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	CANL
2	P	R MODE SW SIG
3	L	CANH
4	W	FRONT G. SENSOR SIG
5	BG	R MODE LAMP SIG
6	BR	REAR G. SENSOR SIG
7	R	COMP. MODE SW SIG
8	G	FRONT G. SENSOR
9	LG	CONF. MODE LAMP SIG
10	R	FR SHOCK ABSORBER ACTUATOR LOW SIG
11	G	FR SHOCK ABSORBER ACTUATOR HI SIG
12	L	FL SHOCK ABSORBER ACTUATOR LOW SIG
13	G	REAR G. SENSOR
14	SB	RE SHOCK ABSORBER ACTUATOR LOW SIG
15	R	FRONT G. SENSOR+
16	BR	RL SHOCK ABSORBER ACTUATOR HI SIG
17	P	FL SHOCK ABSORBER ACTUATOR HI SIG
18	Y	RL SHOCK ABSORBER ACTUATOR LOW SIG
19	R	IGN
20	V	RR SHOCK ABSORBER ACTUATOR HI SIG
21	R	REAR G. SENSOR+
22	B	GND
23	L	BAT

Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10



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

Connector No.	M117
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-C516-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
6	V	-
7	G	-
8	G	-
9	W	-
10	L	-
31	Y	-
32	LG	-
33	BR	-
34	L	-
40	G	-
41	R	-
42	SB	-
43	L	-
44	R	-
45	G	-
51	SB	-
52	BG	-
53	R	-
54	GR	-
60	L	-
61	P	-
62	L	-
63	Y	-
64	LG	-
69	P	-
70	L	-
71	Y	-
80	L	-
81	G	-
82	BR	-
83	B	-
84	V	-
85	SB	-
86	SHIELD	-
87	W	-
88	W	-
96	Y	-

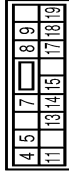
98	G	-
99	V	-
100	W	-

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	R	POWER WINDOW POWER SUPPL.(BAT)
3	W	POWER WINDOW POWER SUPPL.(TRAP)

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



Terminal No.	Color Of Wire	Signal Name [Specification]
4	R	INTERIOR ROOM LAMP POWER SUPPLY
5	G	PASSENGER DOOR UNLOCK OUTPUT
6	V	STEP LAMP
7	Y	ALL DOOR FUEL LID LOCK OUTPUT
8	V	DRIVER DOOR FUEL LID UNLOCK OUTPUT
9	G	BAT (F/R)
10	R	BAT (F/ELSE)
11	R	GND
12	B	GND
13	B	GND
14	P	PUSH-BUTTON IGNITION SW ILL. GND
15	V	ACC ILL. GND
16	W	TURN SIGNAL RH (FRONT) OUTPUT
17	W	TURN SIGNAL LH (FRONT) OUTPUT
18	BG	ROOM LAMP (TIMER) CONTROL
19	V	ROOM LAMP (TIMER) CONTROL

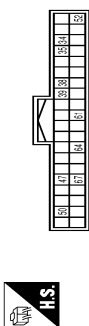
POWER SUPPLY ROUTING CIRCUIT

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[POWER SUPPLY & GROUND CIRCUIT]

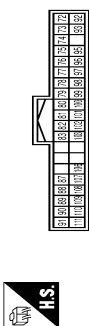
IGNITION POWER SUPPLY

Connector No.	M121
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FGY-NH



Terminal No.	Wire	Signal Name [Specification]
34	P	TRUNK ROOM ANT-
35	L	TRUNK ROOM ANT+
38	R	REAR BUMPER ANT-
39	BR	REAR BUMPER ANT+
47	Y	IGN RELAY (F/B) CONT
50	R	TRUNK ROOM LAMP SW
52	SB	STARTER RELAY CONT
61	W	TRUNK LID REQUEST SW
64	EG	I-KEY WARN BUZZER (ENG ROOM)
67	G	TRUNK LID OPENER SW

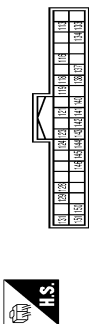
Connector No.	M122
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



Terminal No.	Wire	Signal Name [Specification]
72	R	ROOM ANT2-
73	G	ROOM ANT2+
74	SB	PASSENGER DOOR ANT-
75	BR	PASSENGER DOOR ANT+
76	V	DRIVER DOOR ANT-
77	LG	DRIVER DOOR ANT+
78	Y	ROOM ANT1-
79	BR	ROOM ANT1+
80	GR	IMMOBI ANTENNA CONTROL
81	L	IMMOBI ANTENNA SIGNAL

82	R	IGN RELAY (F/B) CONT
83	Y	KEYLESS ENTRY RECEIVER COMM
87	BR	COMBI SW INPUT 5
88	V	COMBI SW INPUT 3
89	BR	PUSH SW
90	P	CAN-L
91	L	CAN-H
92	LG	KEY SLOT ILL OUTPUT
93	V	ON IND
95	EG	ACC RELAY CONT
96	SB	AT SHIFT SELECTOR POWER SUPPLY
97	L	SIL CONDITION 1
98	R	SIL CONDITION 2
99	G	SHIFT P
100	W	PASSENGER DOOR REQUEST SW
101	V	DRIVER DOOR REQUEST SW
102	RG	BLOWER FAN MOTOR RELAY CONT
103	LG	KEYLESS ENTRY RECEIVER POWER SUPPLY
106	P	SIL UNIT POWER SUPPLY
107	LG	COMBI SW INPUT 1
108	R	COMBI SW INPUT 4
109	Y	COMBI SW INPUT 2
110	G	HAZARD SW
111	Y	SIL UNIT COMM

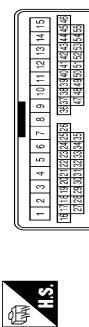
Connector No.	M123
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FG-NH



Terminal No.	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
123	R	KEY SLOT SW
123	BR	IGN/FB
124	LG	PASSENGER DOOR SW
128	P	DOOR LOCK/UNLOCK SW LOCK
129	EG	TRUNK CANCEL SW
131	BR	DOOR LOCK/UNLOCK SW UNLOCK

133	W	PUSH BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND
137	L	RECEIVER GND
138	Y	RECEIVER SENSOR POWER SUPPLY
140	BR	SHIFT NP
141	G	SECURITY INDICATOR
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	GR	DRIVER DOOR SW
151	G	REAR WINDOW DEFOSGGER RELAY CONT

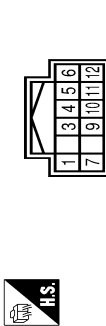
Connector No.	M124
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



Terminal No.	Wire	Signal Name [Specification]
1	Y	-
2	LG	-
3	R	-
4	G	-
6	Y	-
7	G	-
8	V	-
9	R	-
10	W	-
11	V	-
12	W	-
13	LG	-
14	SB	-
15	B	-
16	R	-
17	C	-
27	SHIELD	-
36	BR	-
38	W	-
40	LG	-
41	P	-

42	BR	-
44	L	-
45	Y	-
46	BG	-
47	SB	-
48	BR	-
50	R	-
54	W	-
55	G	-

Connector No.	M125
Connector Name	CAN GATEWAY
Connector Type	TH12PW-NH



Terminal No.	Wire	Signal Name [Specification]
1	L	CAN-H
3	W	BATTERY
4	L	CAN-H
5	B	GROUND
6	L	CAN-H
7	P	CAN-L
9	R	IGNITION
10	P	CAN-L
11	B	GROUND
12	P	CAN-L

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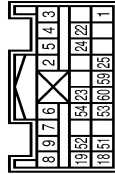
POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

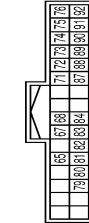
IGNITION POWER SUPPLY

Connector No.	M157
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH2BFY-EX



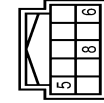
Terminal No.	Color	Wire	Signal Name [Specification]
1	R	R	IGN
2	B	B	GROUND
3	Y	Y	DR1 (+) DR2 (-)
4	Y	Y	DR1 (+)
5	Y	Y	DR2 (+)
6	Y	Y	AS2 (+)
7	Y	Y	AS1 (-)
8	Y	Y	AS2 (+)
9	Y	Y	AS2 (-)
18	SB	SB	EC2S (+)
19	V	V	EC2S (-)
22	SHIELD		GROUND
23	R	R	AIR BAG W/L
24	G	G	SEAT BELT
25	R	R	CUTOFF TELLTALE
51	R	R	SIDE SENS RH2+
52	G	G	SIDE SENS RH2-
53	Y	Y	SIDE SENS LH2+
54	BR	BR	SIDE SENS LH2-
59	L	L	CANH
60	P	P	CANL

Connector No.	M203
Connector Name	AV CONTROL UNIT
Connector Type	TH2PFV-NH



Terminal No.	Color	Wire	Signal Name [Specification]
65	R	R	PARKING BRAKE
67	W	W	COMPOSITE IMAGE GND
68	R	R	COMPOSITE IMAGE SIGNAL
71	SHIELD		MICROPHONE GND
72	L	L	MICROPHONE VCC
73	V	V	COMM (CONT-DISPI)
74	P	P	CANL
75	R	R	AV COMM (L)
76	R	R	AV COMM (L)
79	R	R	ILLUMINATION
80	W	W	IGNITION
81	BG	BG	REVERSE
82	V	V	VEHICLE SPEED (8-PULSE)
83	SHIELD		SHIELD
84	B	B	COMPOSITE SYNCHRONIZING SIGNAL
87	P	P	MICROPHONE SIGNAL
88	SHIELD		SHIELD
89	SB	SB	COMM (DISP-CONT)
90	L	L	CANH
91	G	G	AV COMM (H)
92	G	G	AV COMM (H)

Connector No.	R9
Connector Name	AUTO ANTILAZING INSIDE MIRROR
Connector Type	TH10FB-NH



Terminal No.	Color	Wire	Signal Name [Specification]
5	BY	BY	BAT
8	BY	BY	IGN
8	B	B	GND

JRMWG8068GB

POWER SUPPLY ROUTING CIRCUIT

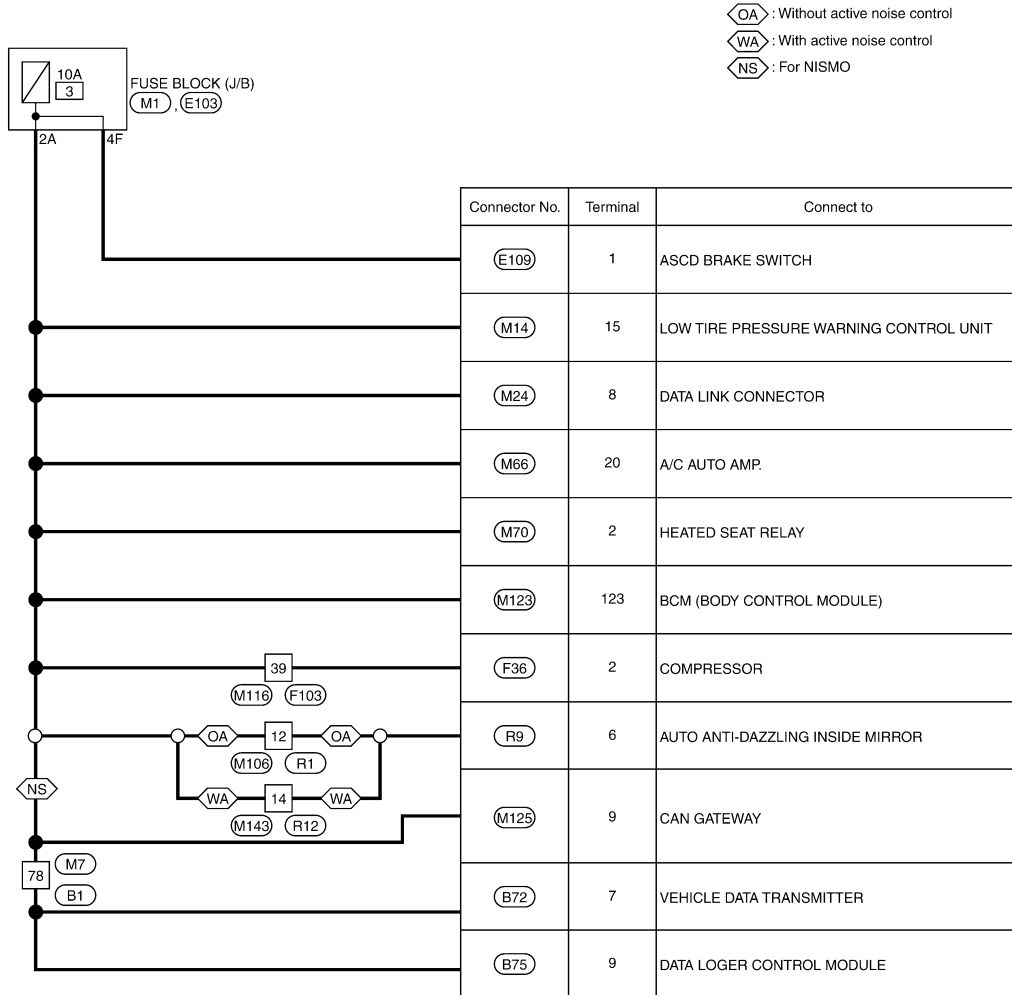
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 3 -

INFOID:000000011488199

IGNITION POWER SUPPLY FUSE No. 3



2014/10/01

JRMWG8069GB

POWER SUPPLY ROUTING CIRCUIT

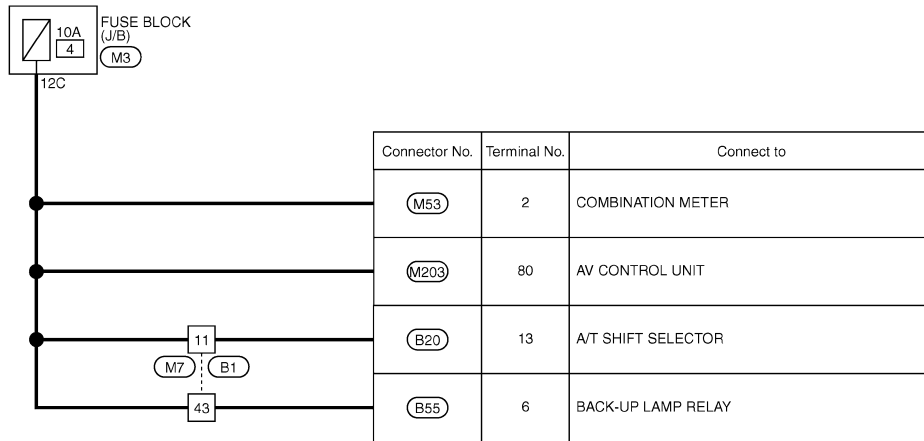
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 4 -

INFOID:000000011488200

IGNITION POWER SUPPLY FUSE No. 4



2009/11/10

JCMWA5441GB

POWER SUPPLY ROUTING CIRCUIT

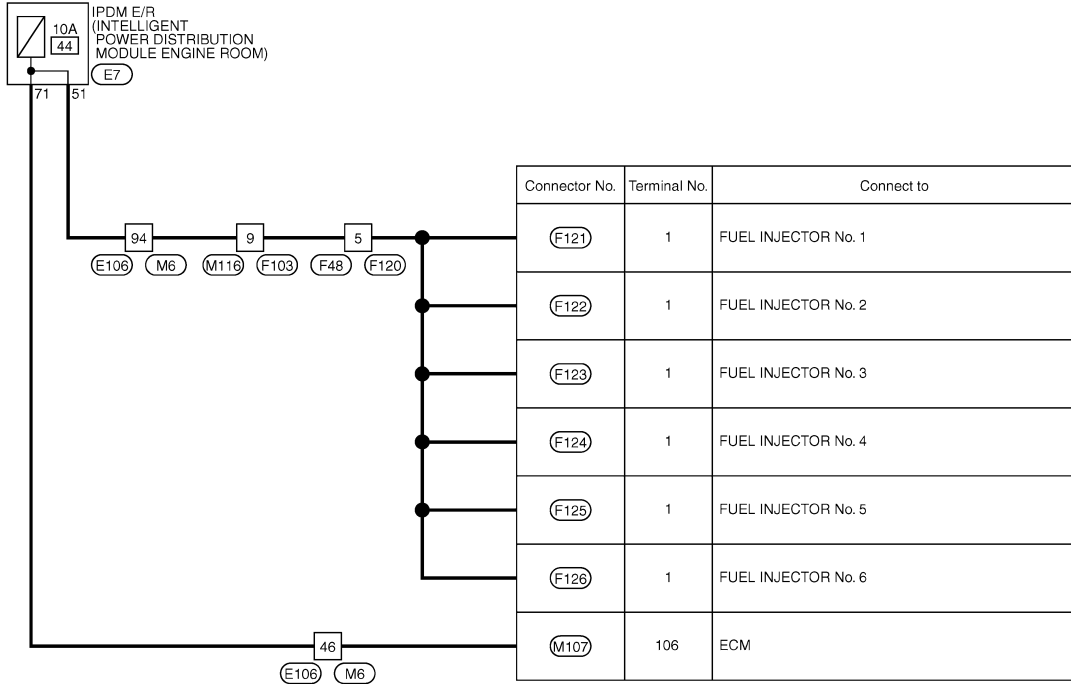
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 44 -

INFOID:000000011488201

IGNITION POWER SUPPLY FUSE No. 44



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2008/03/14

JCMWA2171GB

POWER SUPPLY ROUTING CIRCUIT

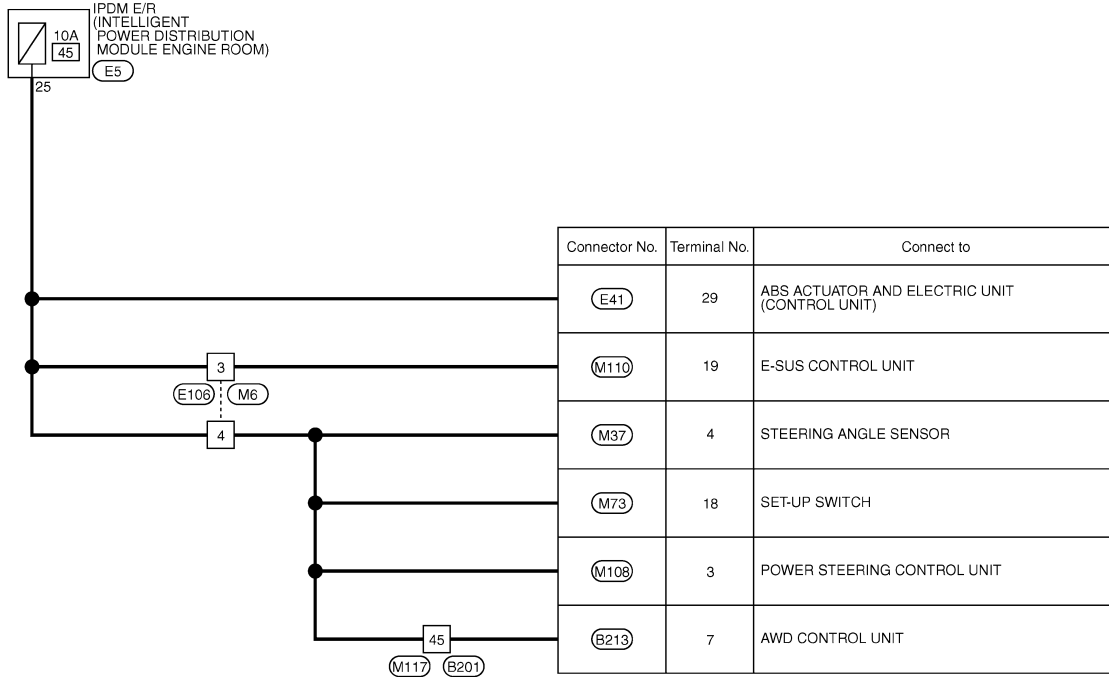
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 45 -

INFOID:000000011488202

IGNITION POWER SUPPLY FUSE No. 45



2008/03/14

JCMWA2174GB

POWER SUPPLY ROUTING CIRCUIT

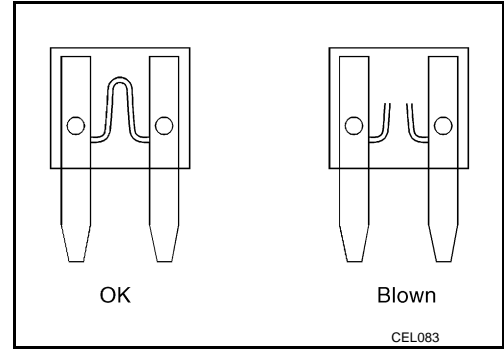
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Fuse

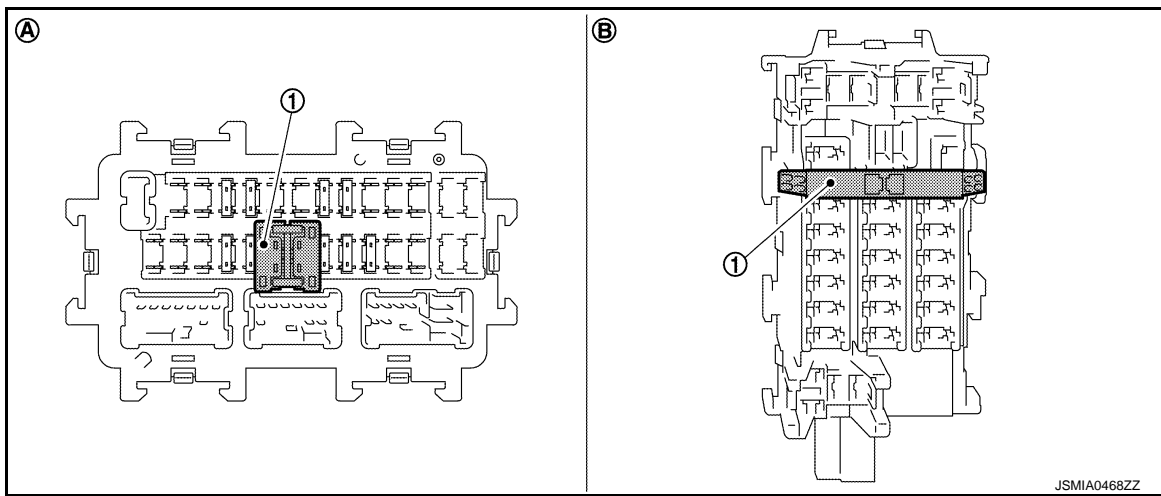
INFOID:000000011488203

- 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 the fuse of extended storage switch.
- 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.

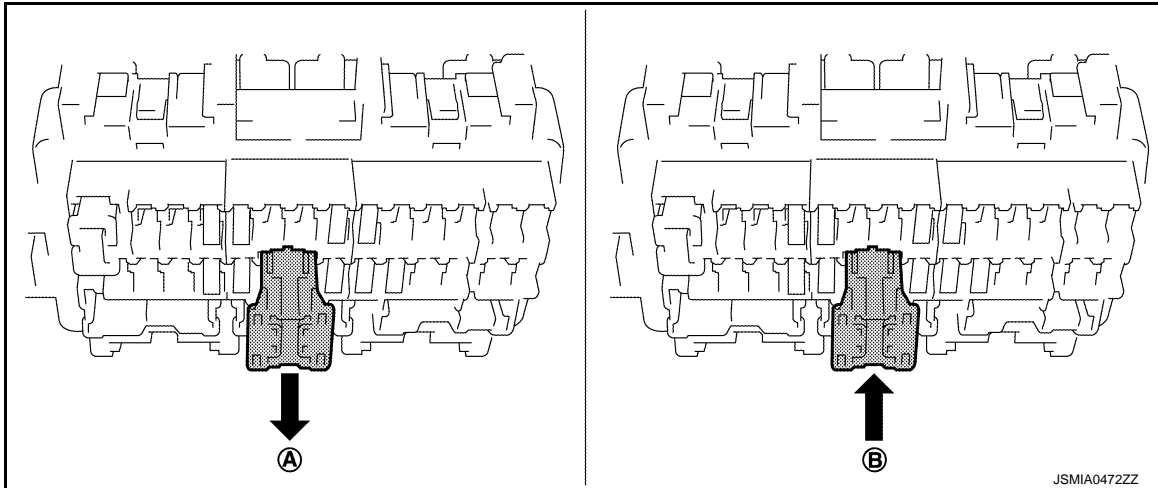
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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

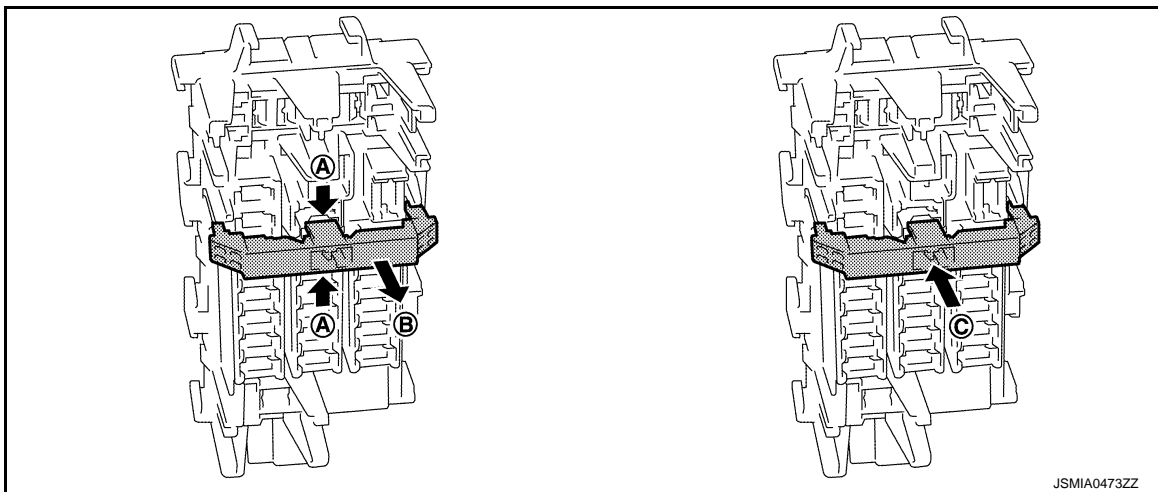
[POWER SUPPLY & GROUND CIRCUIT]

• 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

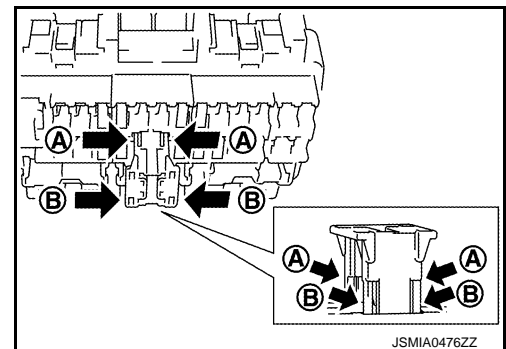


- To turn the extended storage switch OFF, hold (A) of the switch and pull up in (B) direction as shown in the figure.
- To turn the extended storage switch ON, press it in (C) direction as shown in the figure.

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

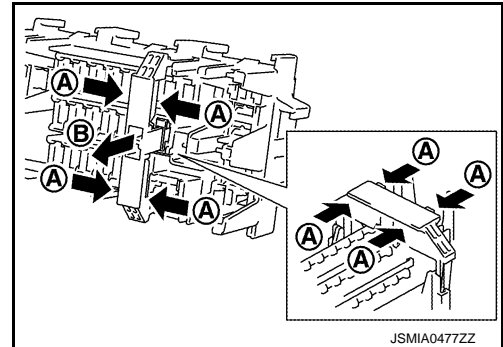
[POWER SUPPLY & GROUND CIRCUIT]

< DTC/CIRCUIT DIAGNOSIS >

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

Type B

- Turn the ignition switch OFF.
- Turn the extended storage switch OFF.
- 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

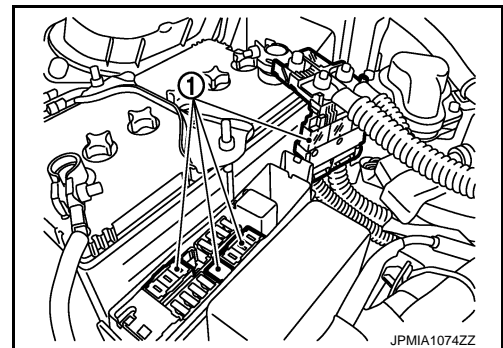
INFOID:000000011488204

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:

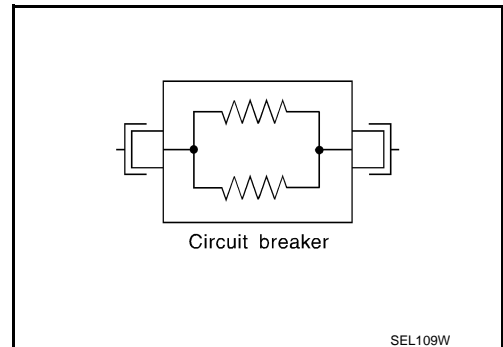
- If fusible link should melt, it is possible that critical circuit (power supply or large current carrying circuit) is shorted. In such a case, carefully check and eliminate cause of malfunction.
- Never wrap outside of fusible link with vinyl tape. Important: Never let fusible link touch any other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



Circuit Breaker

INFOID:000000011488205

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.



GROUND DISTRIBUTION

< DTC/CIRCUIT DIAGNOSIS >

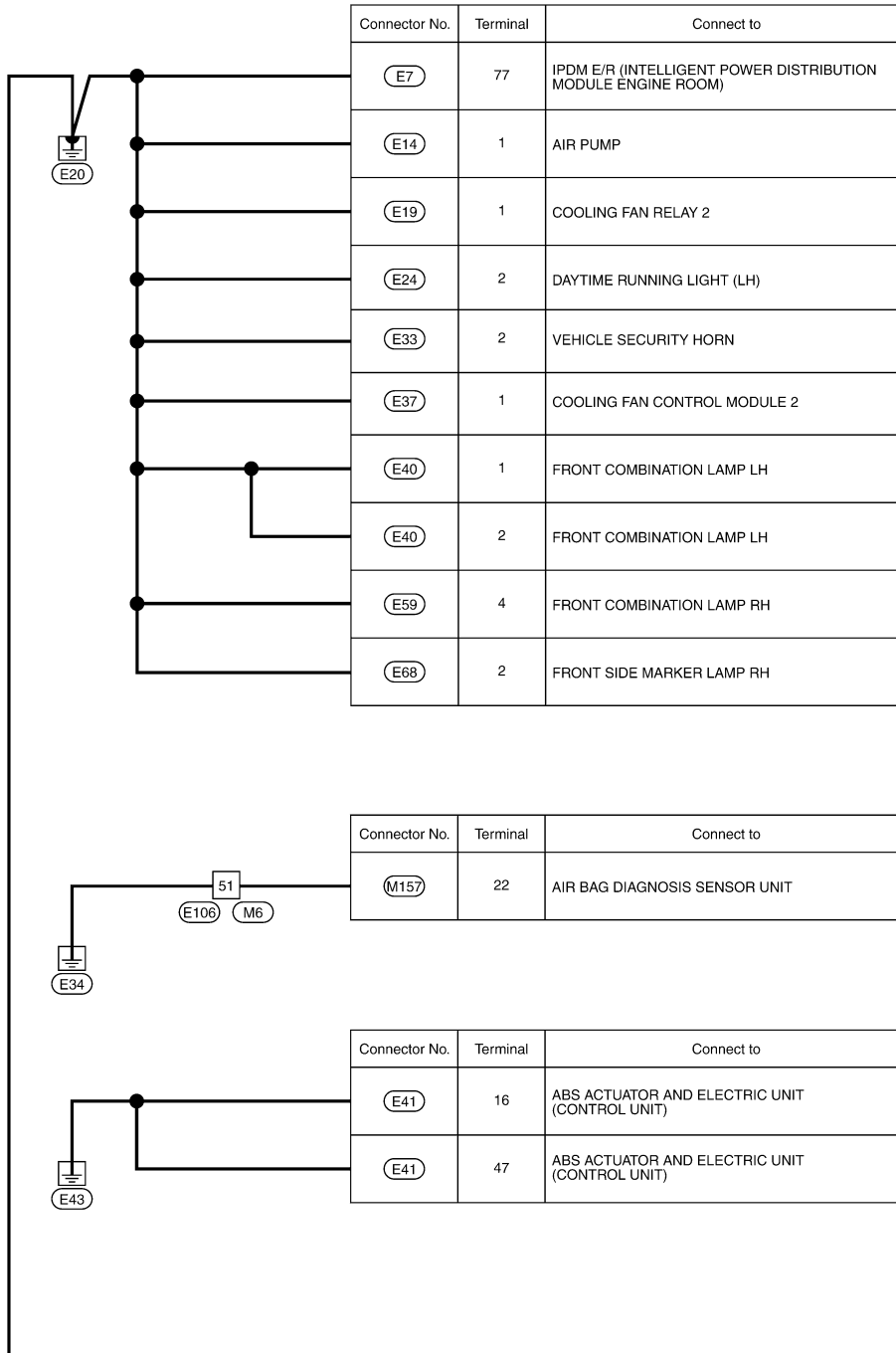
[POWER SUPPLY & GROUND CIRCUIT]

GROUND DISTRIBUTION

Engine Room Harness

INFOID:000000011488206

ENGINE ROOM HARNESS

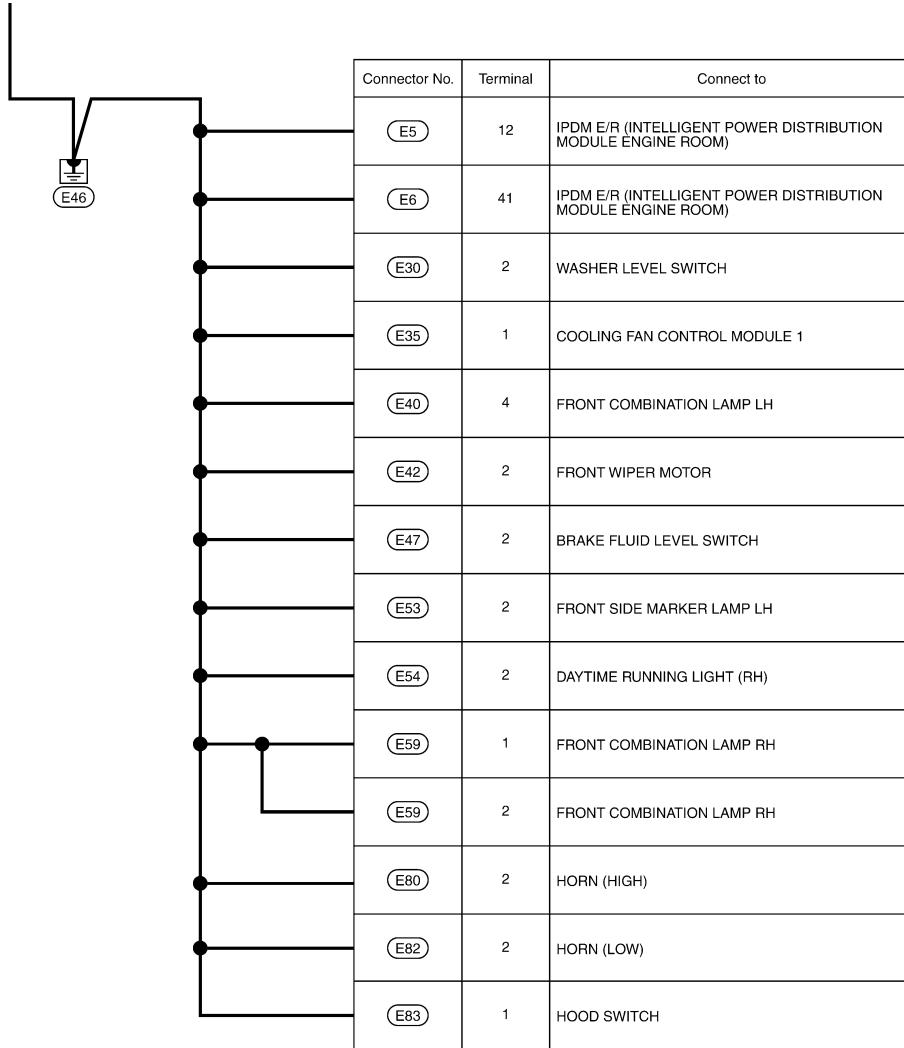


JRMWG8074GB

GROUND DISTRIBUTION

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



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2014/10/01

JRMWG8075GB

GROUND DISTRIBUTION

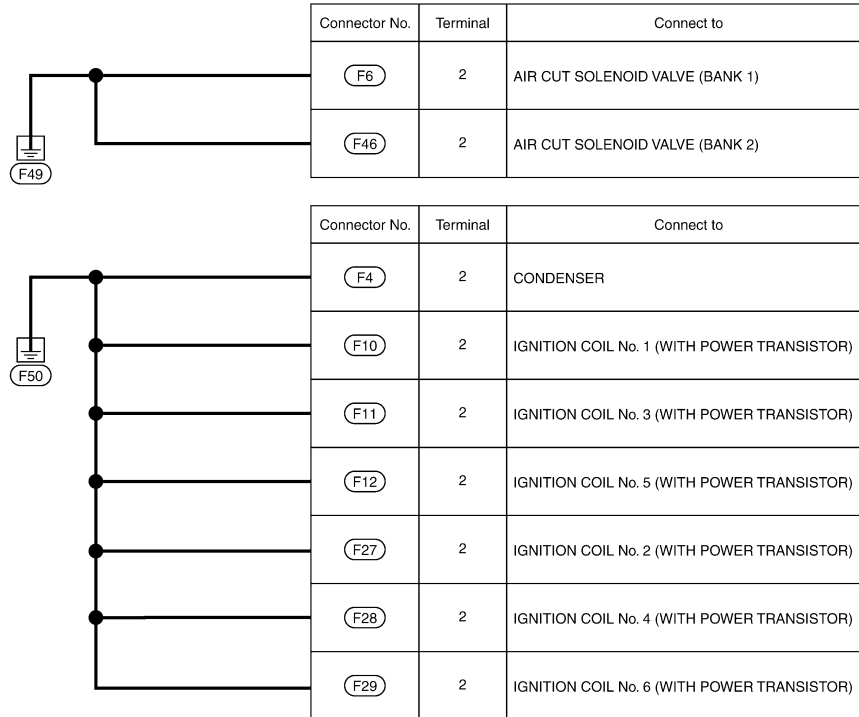
[POWER SUPPLY & GROUND CIRCUIT]

< DTC/CIRCUIT DIAGNOSIS >

Engine Control Harness

INFOID:000000011488207

ENGINE CONTROL HARNESS



2014/10/01

JRMWG8073GB

GROUND DISTRIBUTION

[POWER SUPPLY & GROUND CIRCUIT]

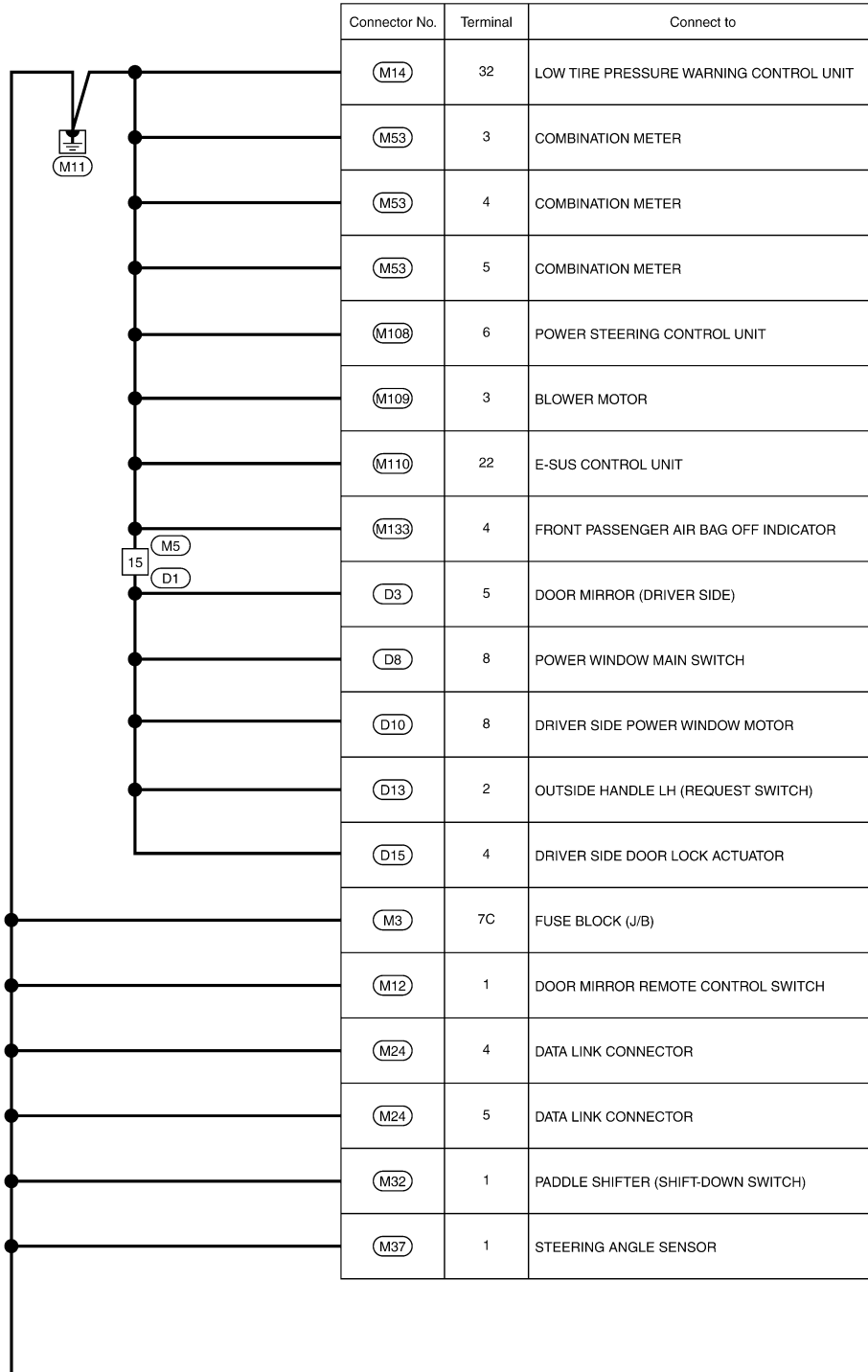
< DTC/CIRCUIT DIAGNOSIS >

Main Harness

INFOID:000000011488208

MAIN HARNESS

- XN : Except for NISMO
- NS : For NISMO
- OA : Without active noise control
- WA : With active noise control



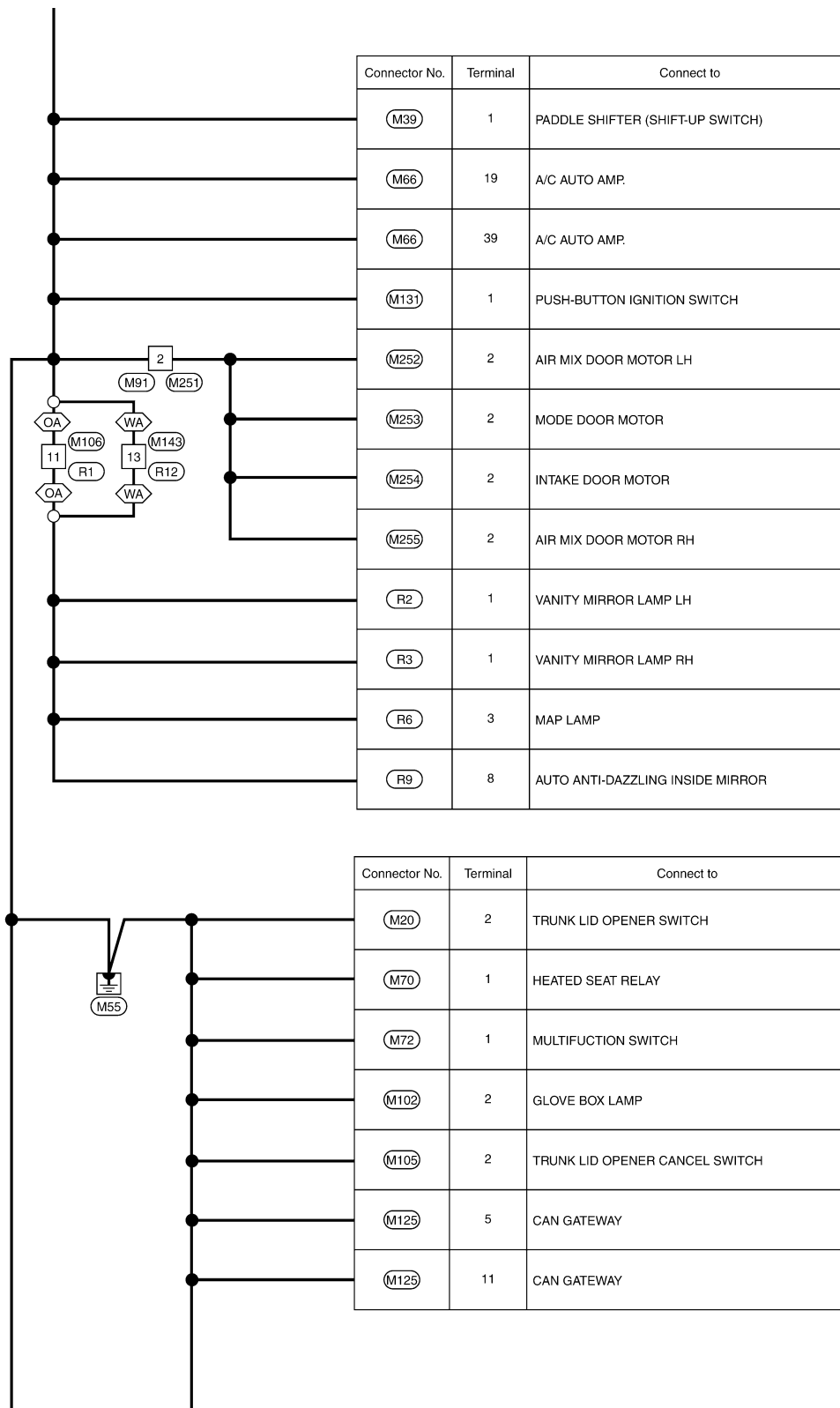
JRMWG8070GB

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GROUND DISTRIBUTION

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



Connector No.	Terminal	Connect to
M39	1	PADDLE SHIFTER (SHIFT-UP SWITCH)
M66	19	A/C AUTO AMP.
M66	39	A/C AUTO AMP.
M131	1	PUSH-BUTTON IGNITION SWITCH
M252	2	AIR MIX DOOR MOTOR LH
M253	2	MODE DOOR MOTOR
M254	2	INTAKE DOOR MOTOR
M255	2	AIR MIX DOOR MOTOR RH
R2	1	VANITY MIRROR LAMP LH
R3	1	VANITY MIRROR LAMP RH
R6	3	MAP LAMP
R9	8	AUTO ANTI-DAZZLING INSIDE MIRROR

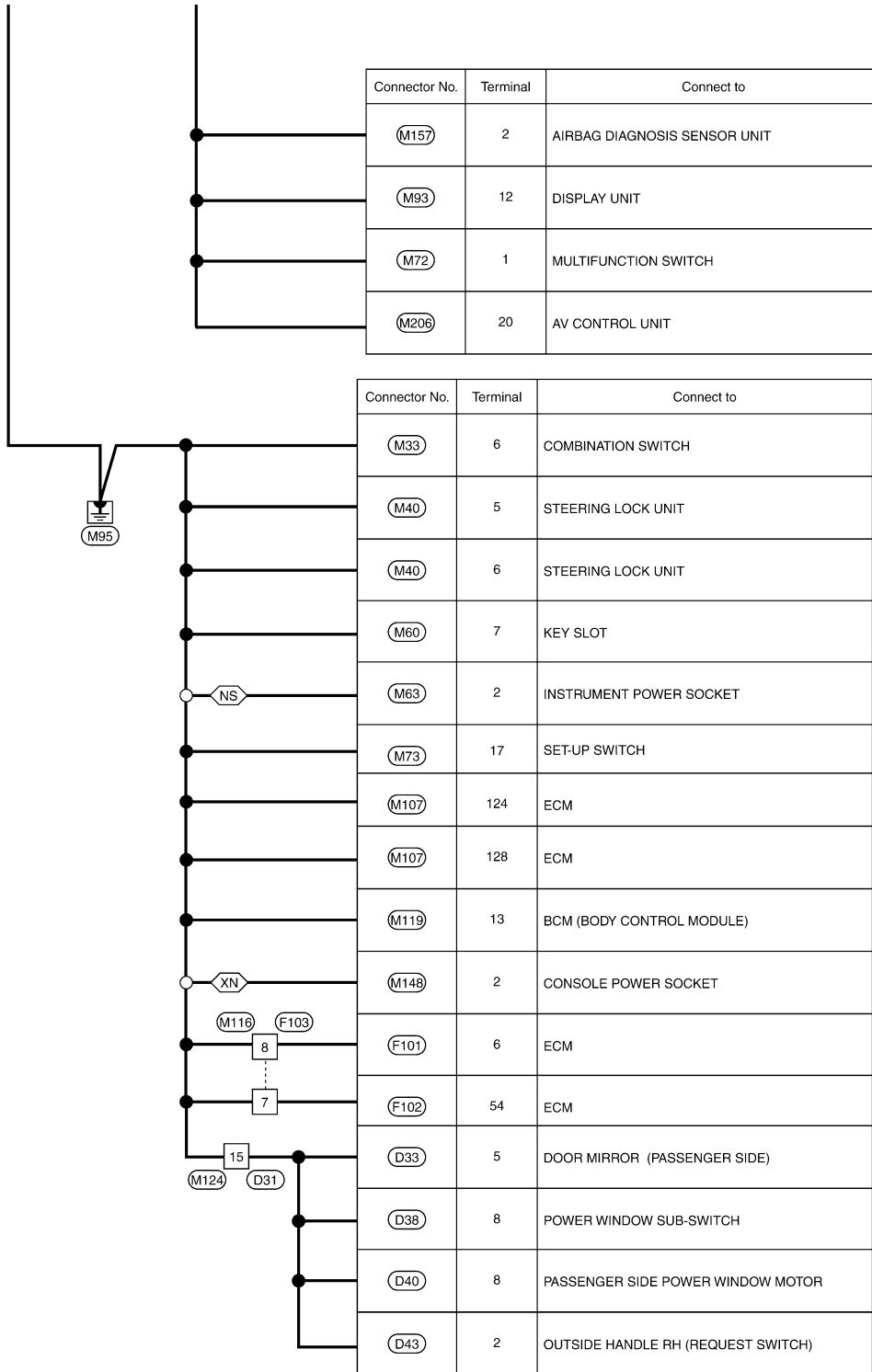
Connector No.	Terminal	Connect to
M20	2	TRUNK LID OPENER SWITCH
M70	1	HEATED SEAT RELAY
M72	1	MULTIFUNCTION SWITCH
M102	2	GLOVE BOX LAMP
M105	2	TRUNK LID OPENER CANCEL SWITCH
M125	5	CAN GATEWAY
M125	11	CAN GATEWAY

JRMWG8071GB

GROUND DISTRIBUTION

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



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2014/10/01

JRMWG8072GB

GROUND DISTRIBUTION

[POWER SUPPLY & GROUND CIRCUIT]

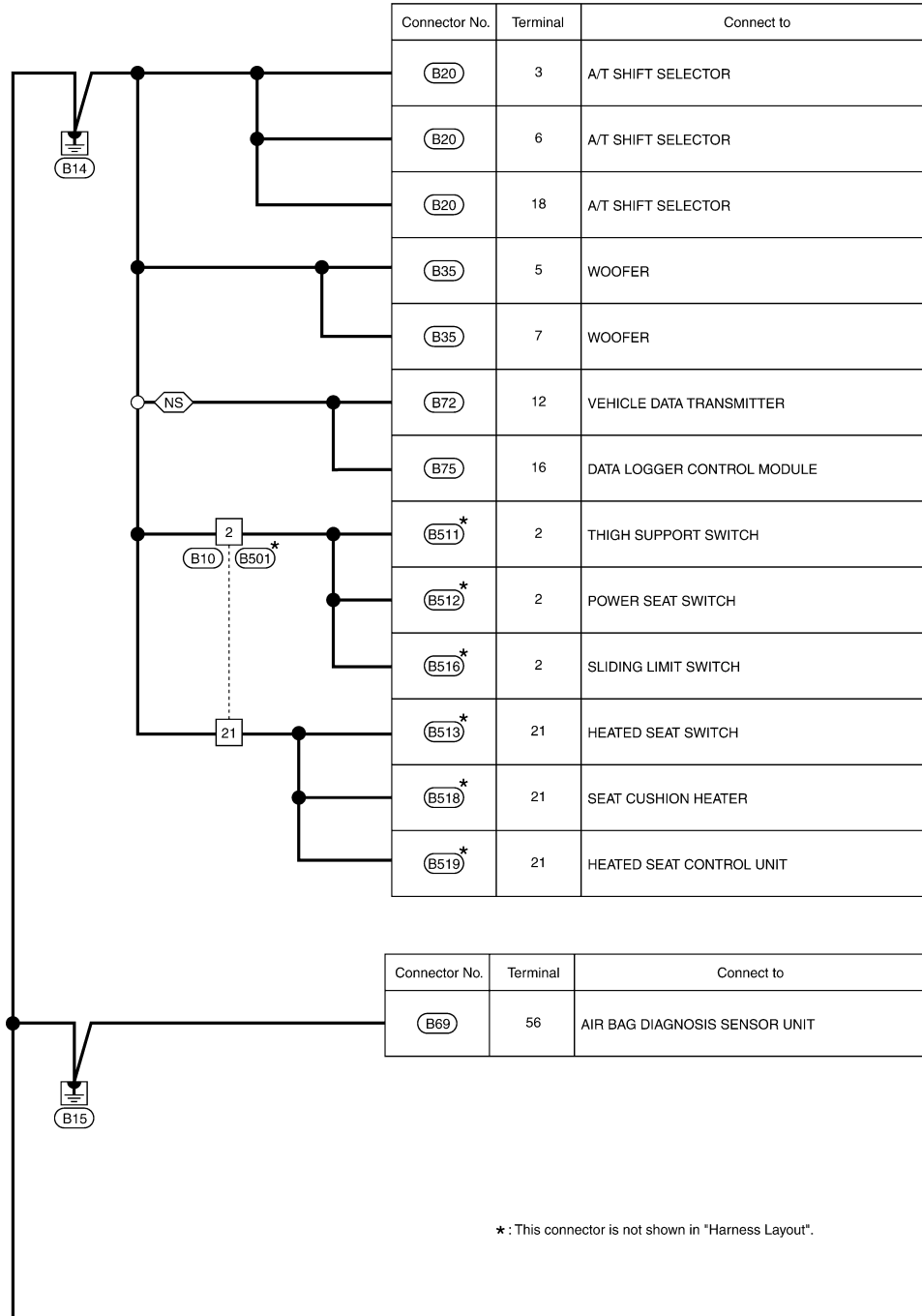
< DTC/CIRCUIT DIAGNOSIS >

Body Harness

INFOID:000000011488209

BODY HARNESS

NS : For NISMO
XN : Except for NISMO

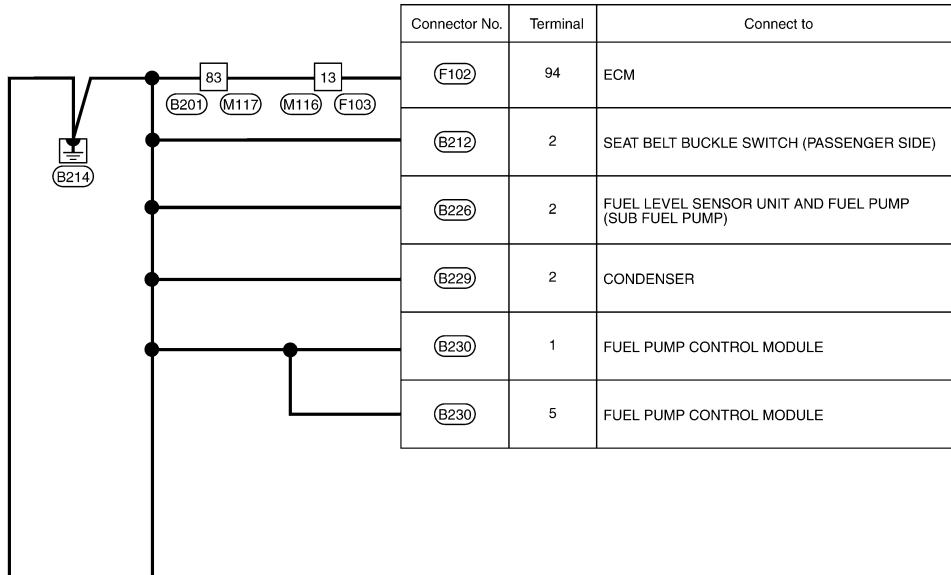
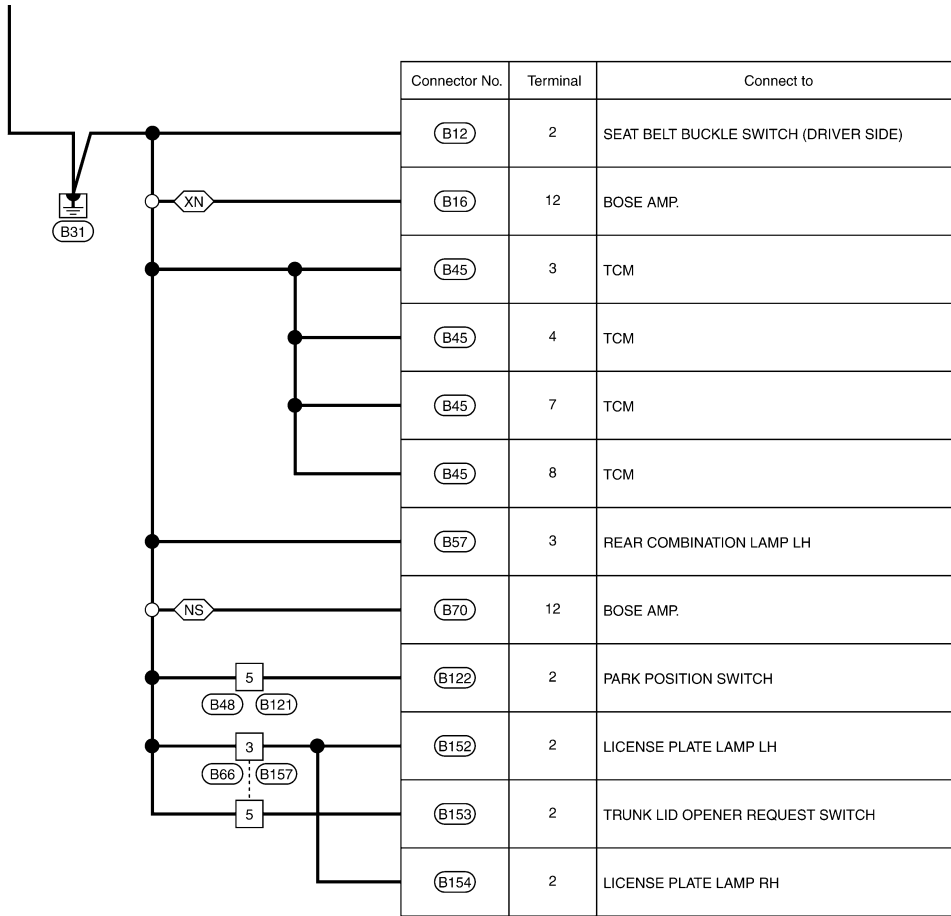


JRMWG8076GB

GROUND DISTRIBUTION

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



JRMWG8077GB

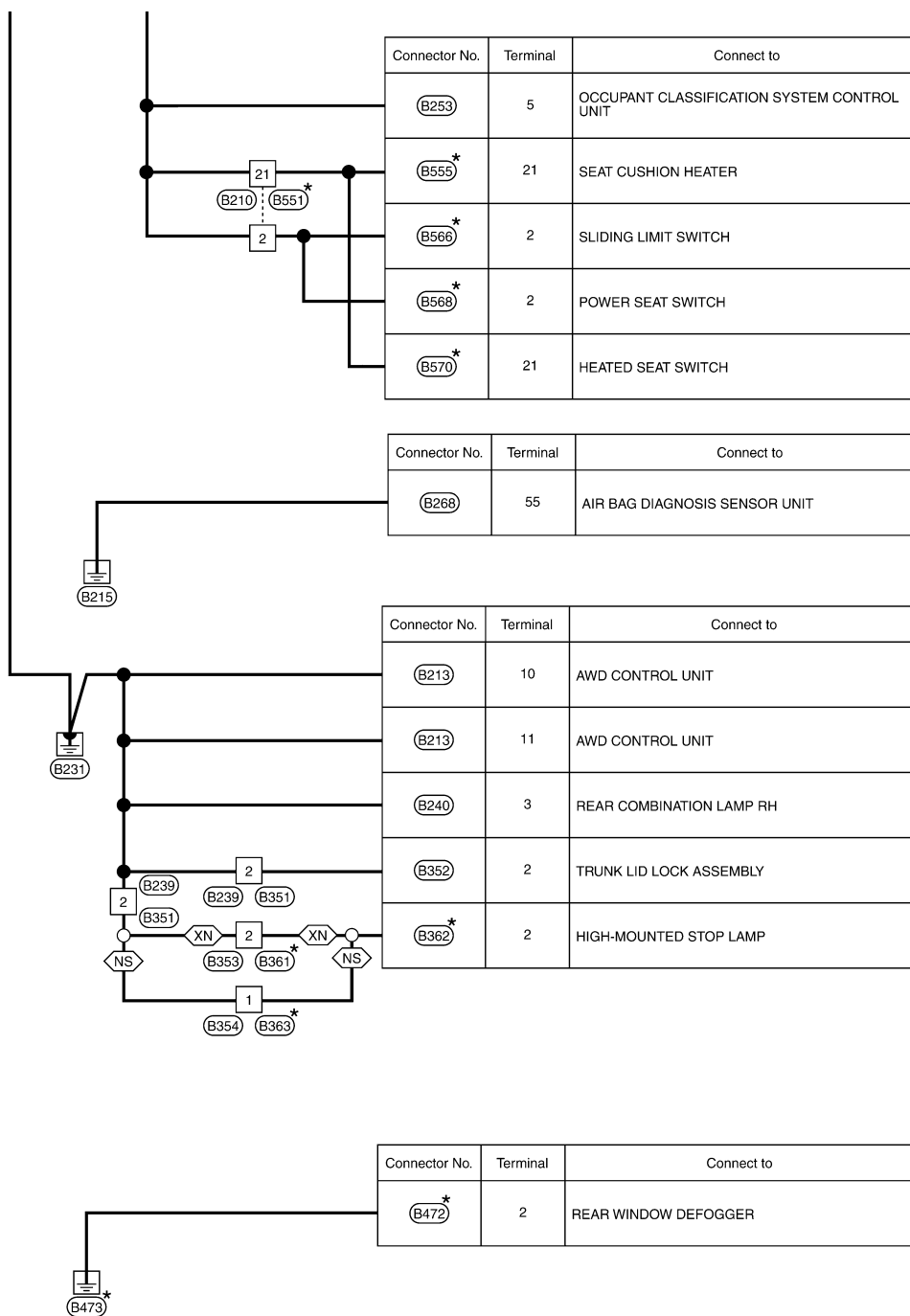
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GROUND DISTRIBUTION

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]



Connector No.	Terminal	Connect to
(B253)	5	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
(B555)*	21	SEAT CUSHION HEATER
(B566)*	2	SLIDING LIMIT SWITCH
(B568)*	2	POWER SEAT SWITCH
(B570)*	21	HEATED SEAT SWITCH

Connector No.	Terminal	Connect to
(B268)	55	AIR BAG DIAGNOSIS SENSOR UNIT

Connector No.	Terminal	Connect to
(B213)	10	AWD CONTROL UNIT
(B213)	11	AWD CONTROL UNIT
(B240)	3	REAR COMBINATION LAMP RH
(B352)	2	TRUNK LID LOCK ASSEMBLY
(B362)*	2	HIGH-MOUNTED STOP LAMP

Connector No.	Terminal	Connect to
(B472)*	2	REAR WINDOW DEFOGGER

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

2014/10/01

JRMWG8078GB

HARNESS LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

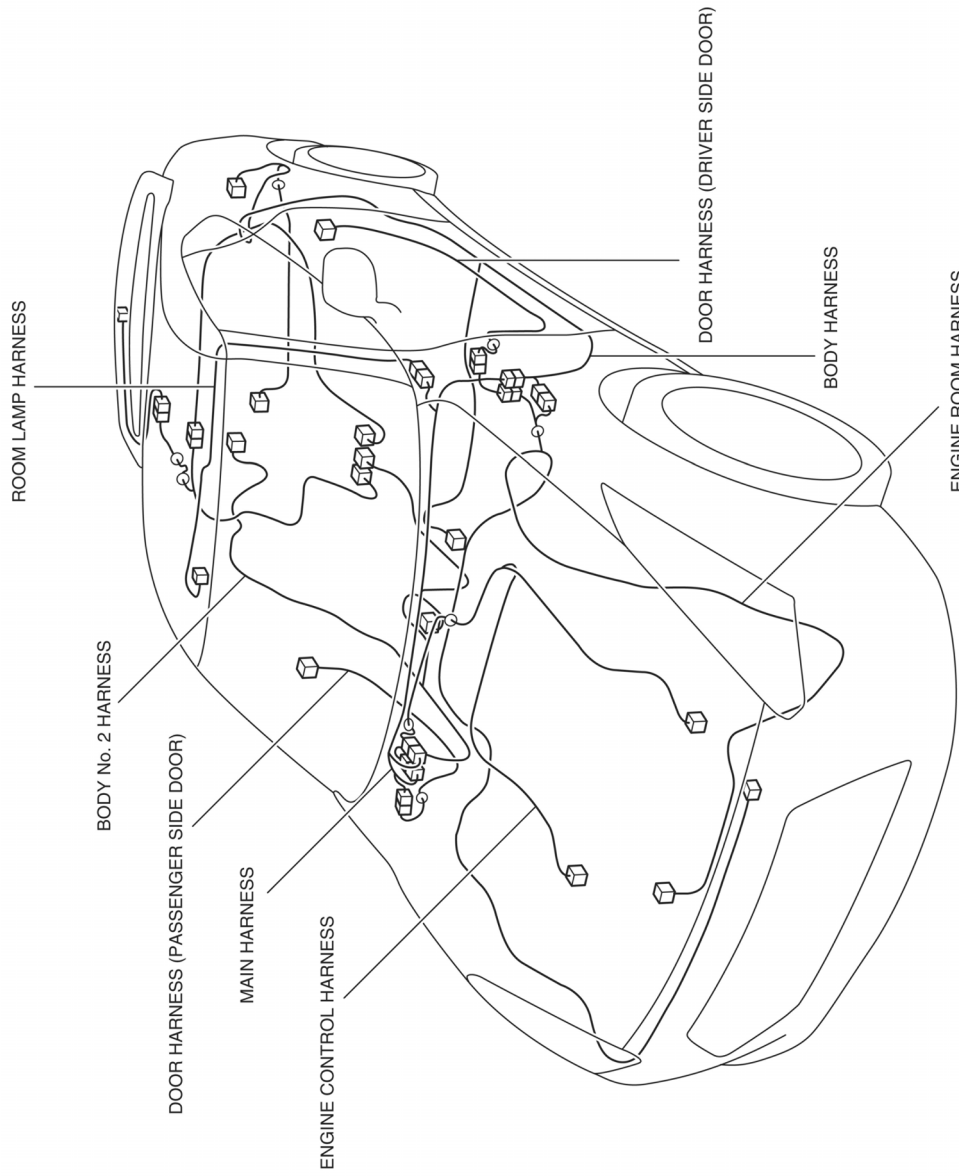
[POWER SUPPLY & GROUND CIRCUIT]

HARNESS LAYOUT

Outline

INFOID:000000011488210

OUTLINE



2012/10/26

JRMIC2345GB

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HARNESS LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

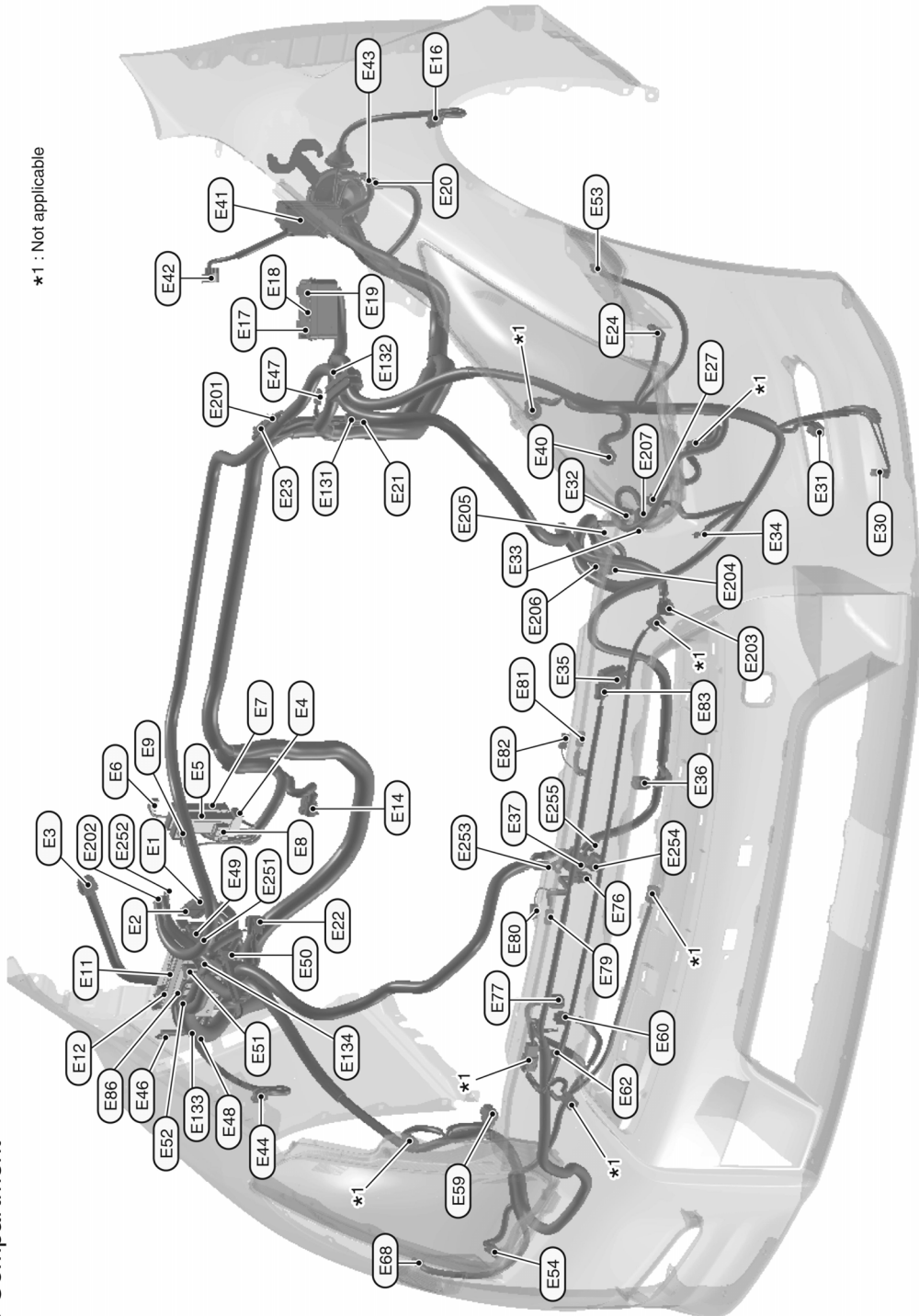
[POWER SUPPLY & GROUND CIRCUIT]

Engine Room Harness

INFOID:000000011488211

ENGINE COMPARTMENT

ENGINE ROOM HARNESS /
Engine Compartment



*1 : Not applicable

2014/10/01

JRMIC5484GB

HARNES LAYOUT

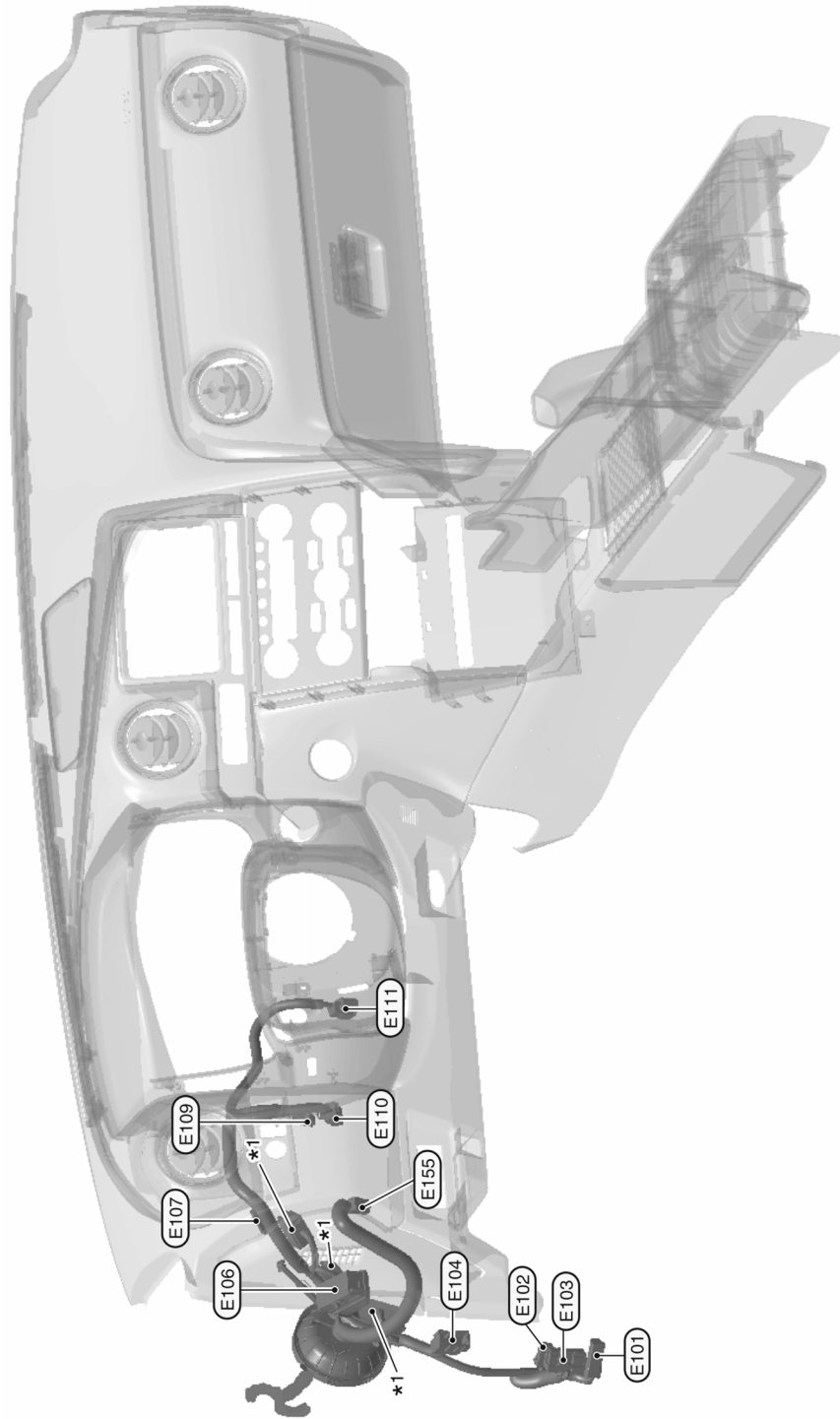
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

PASSENGER COMPARTMENT

Passenger Compartment

*1 : Not applicable



2014/10/01

JRMIC5485GB

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HARNESS LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

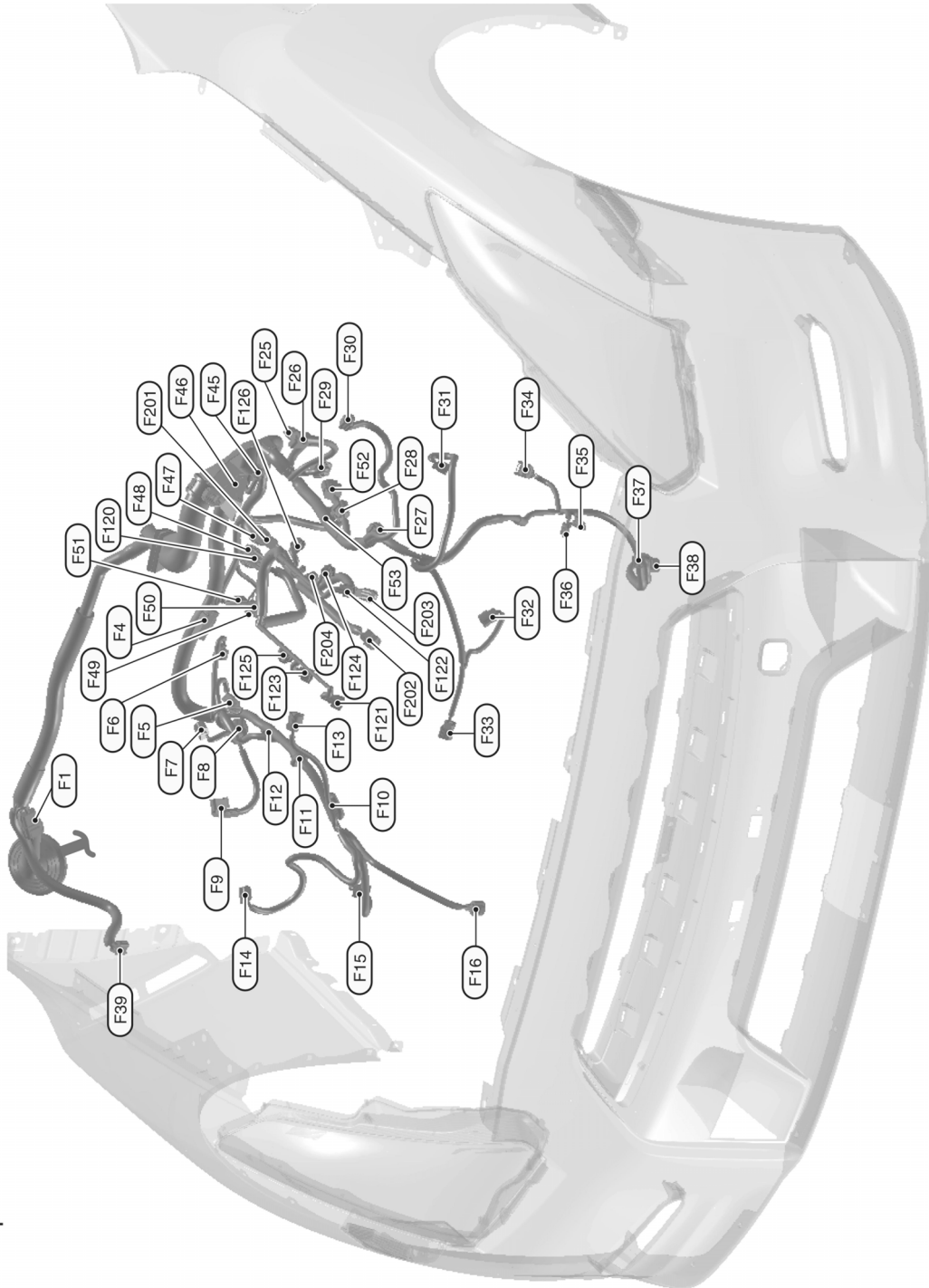
[POWER SUPPLY & GROUND CIRCUIT]

Engine Control Harness

INFOID:000000011488212

ENGINE COMPARTMENT

ENGINE CONTROL HARNESS /
Engine Compartment



2012/10/26

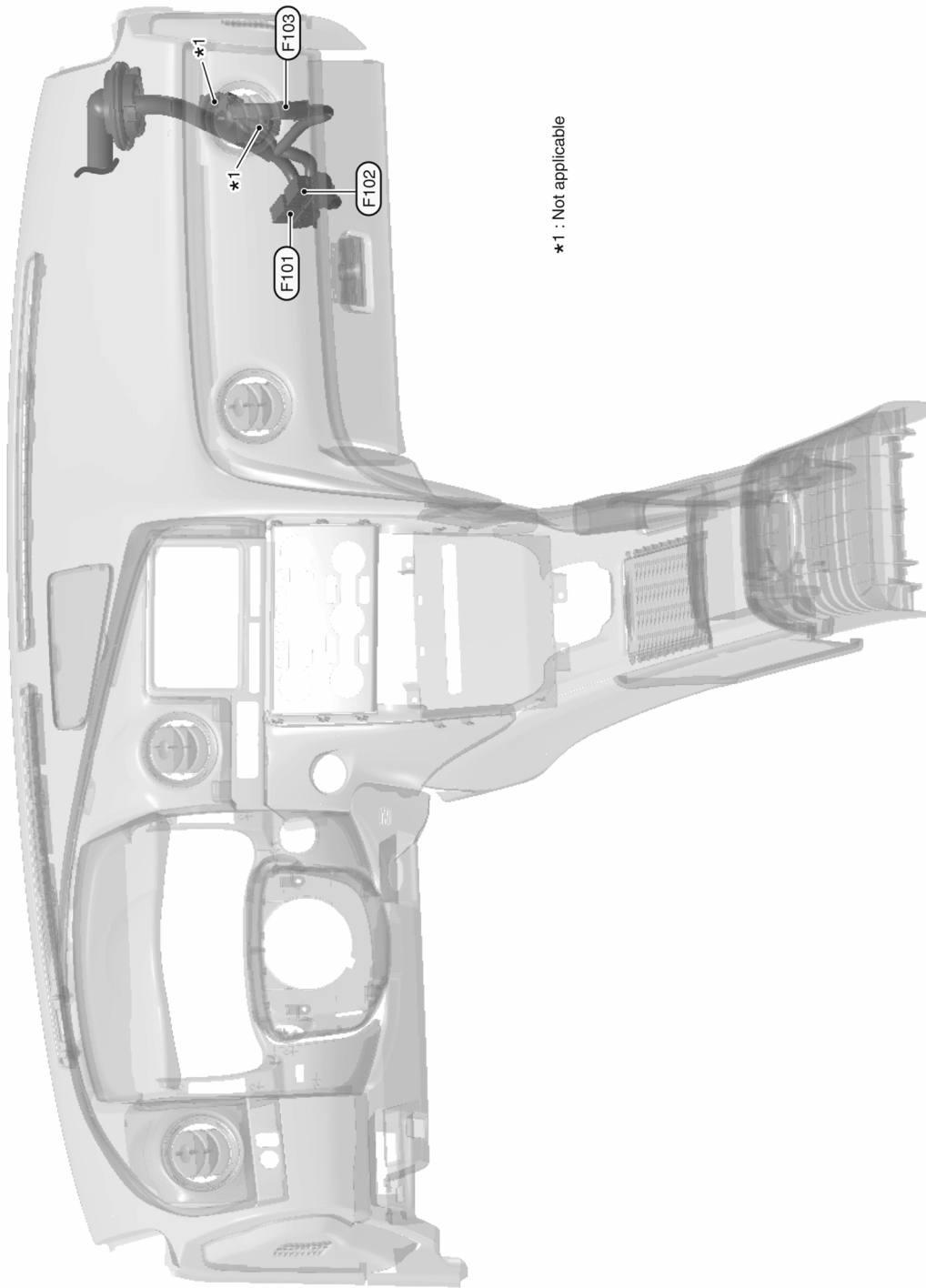
JRMIC2349GB

HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >
PASSENGER COMPARTMENT

[POWER SUPPLY & GROUND CIRCUIT]

Passenger Compartment



*1 : Not applicable

2014/10/01

JRMIC5486GB

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HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

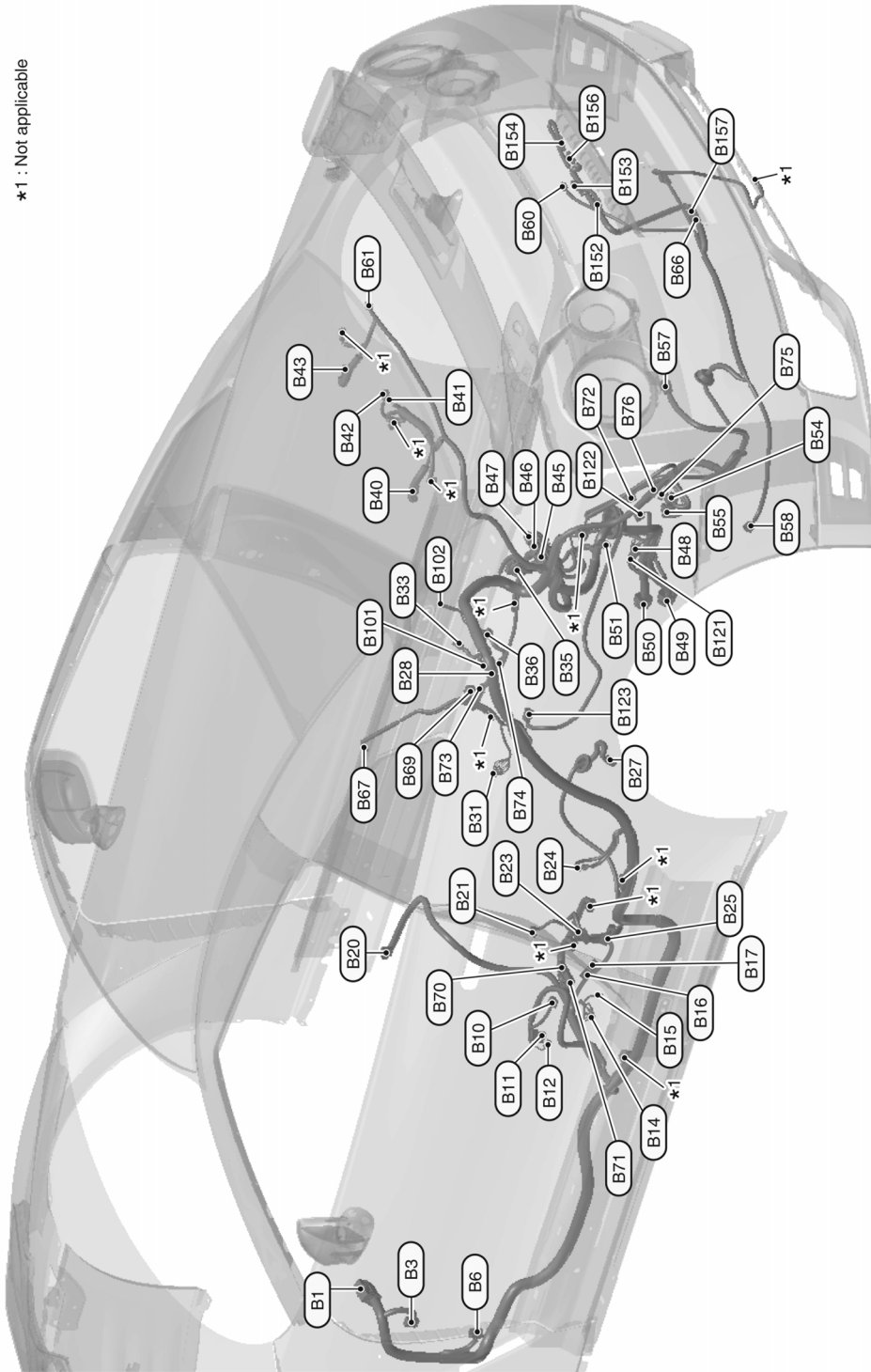
Body Harness

INFOID:000000011488214

BODY HARNESS

BODY HARNESS

*1 : Not applicable



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HARNES LAYOUT

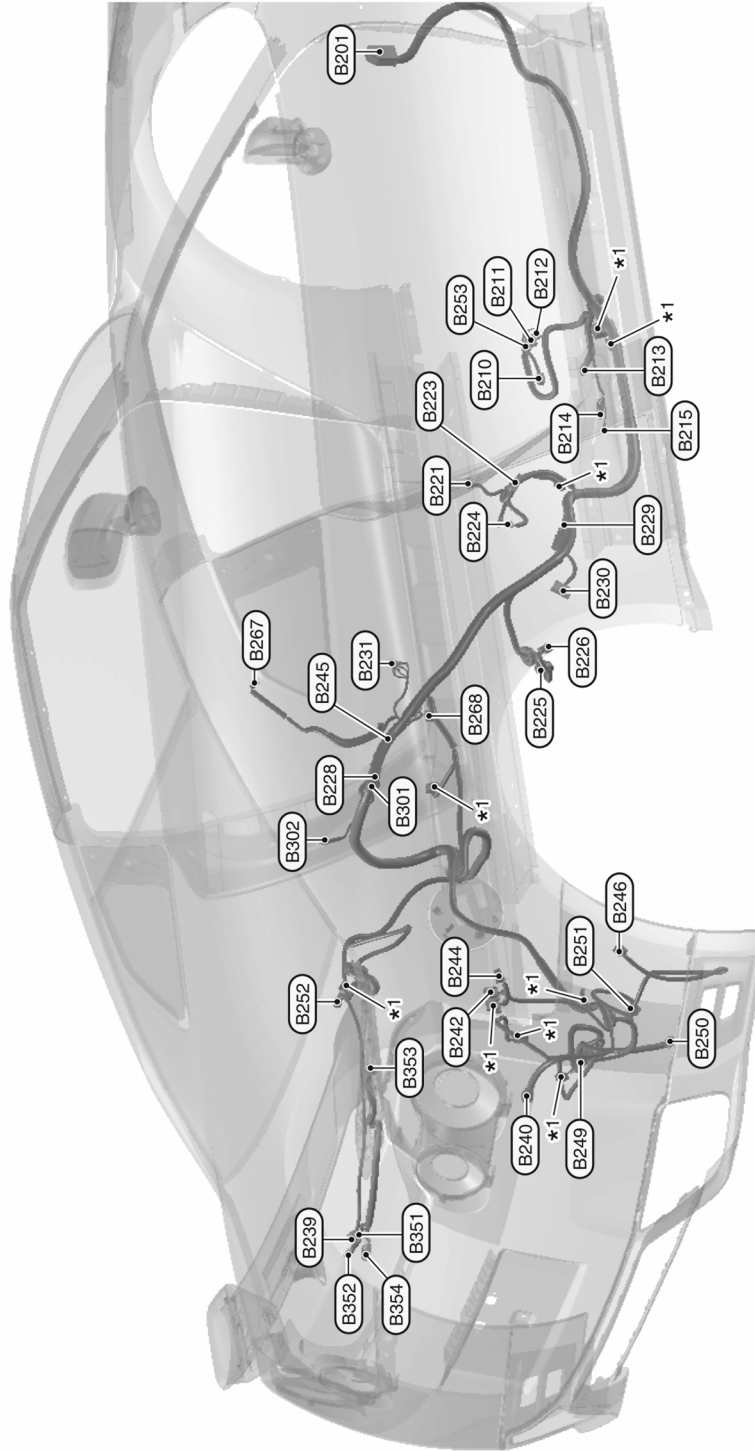
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BODY No. 2 HARNESS

BODY No. 2 HARNESS

*1 : Not applicable



2014/10/01

JRMIC5488GB

HARNESS LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

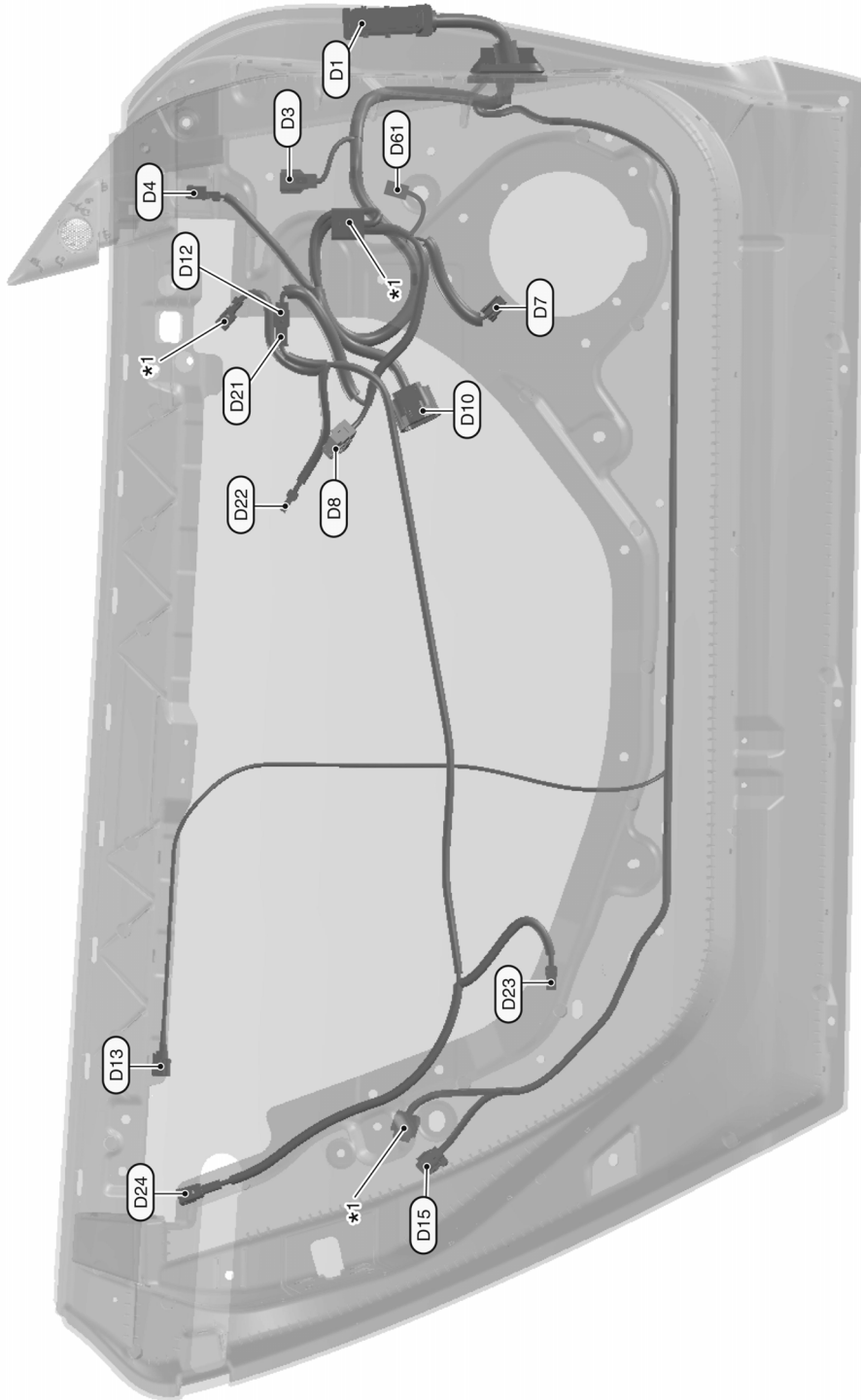
Door Harness

INFOID:000000011488215

DRIVER SIDE DOOR

DOOR HARNESS (DRIVER SIDE DOOR)

*1 : Not applicable



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2014/10/01

JRMIC5490GB

HARNESS LAYOUT

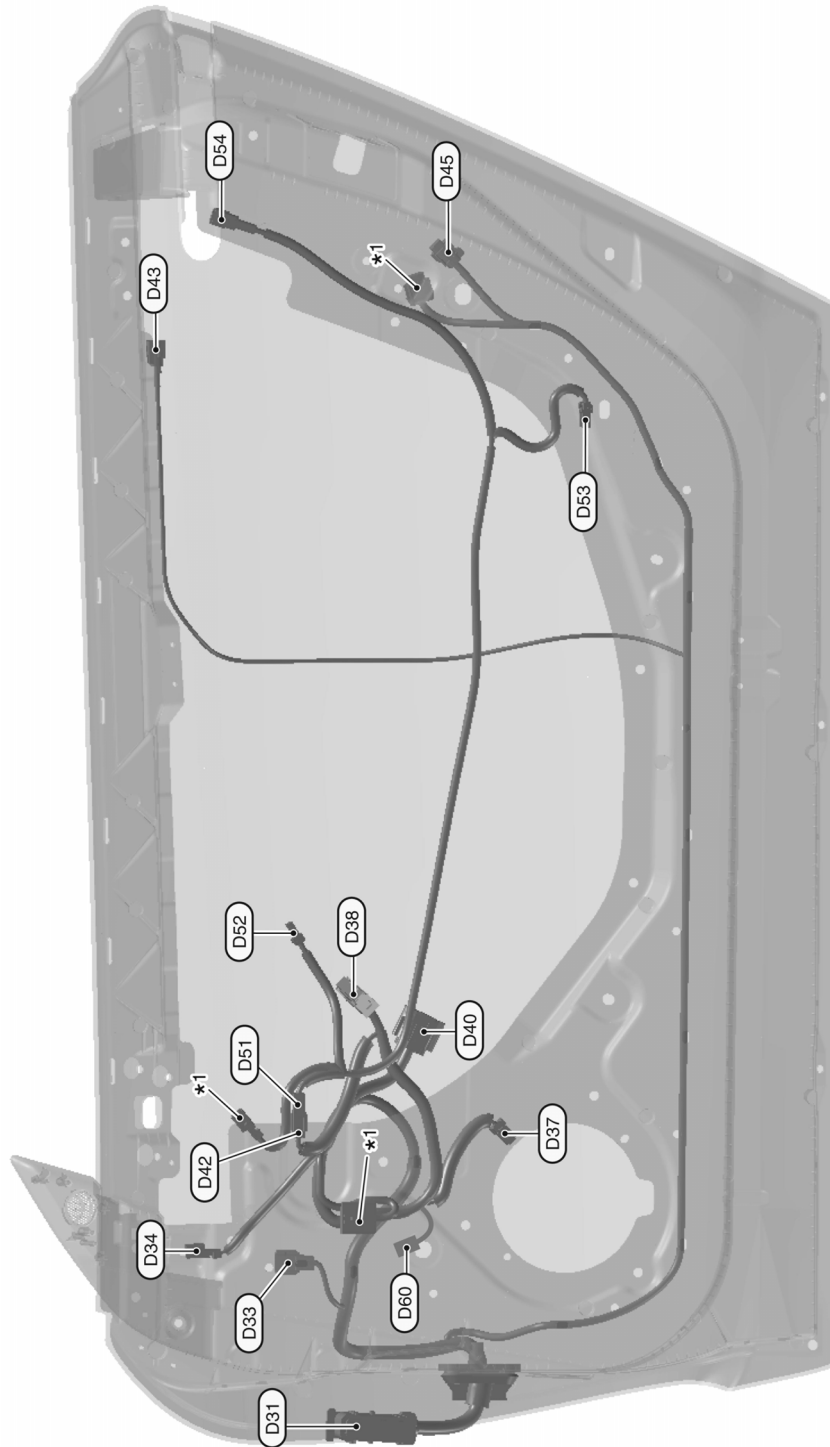
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

PASSENGER SIDE DOOR

DOOR HARNESS (PASSENGER SIDE DOOR)

*1 : Not applicable



2014/10/01

JRMIC5491GB

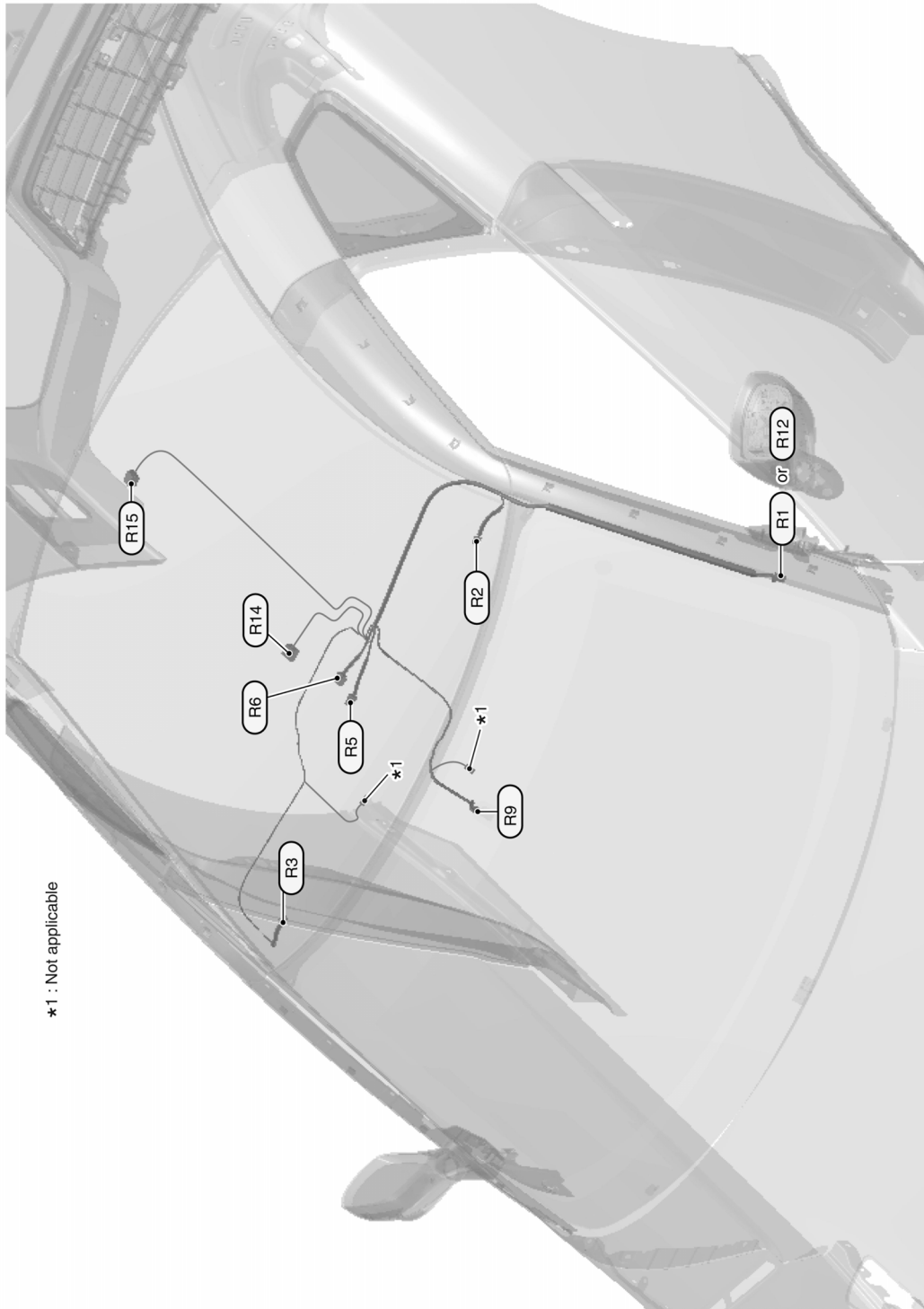
HARNES LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Room Lamp Harness

INFOID:000000011488216



*1 : Not applicable

ROOM LAMP HARNESS

2014/10/01

JRMIC5489GB

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HARNESS CONNECTOR

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

HARNESS CONNECTOR

Description

INFOID:000000011488217

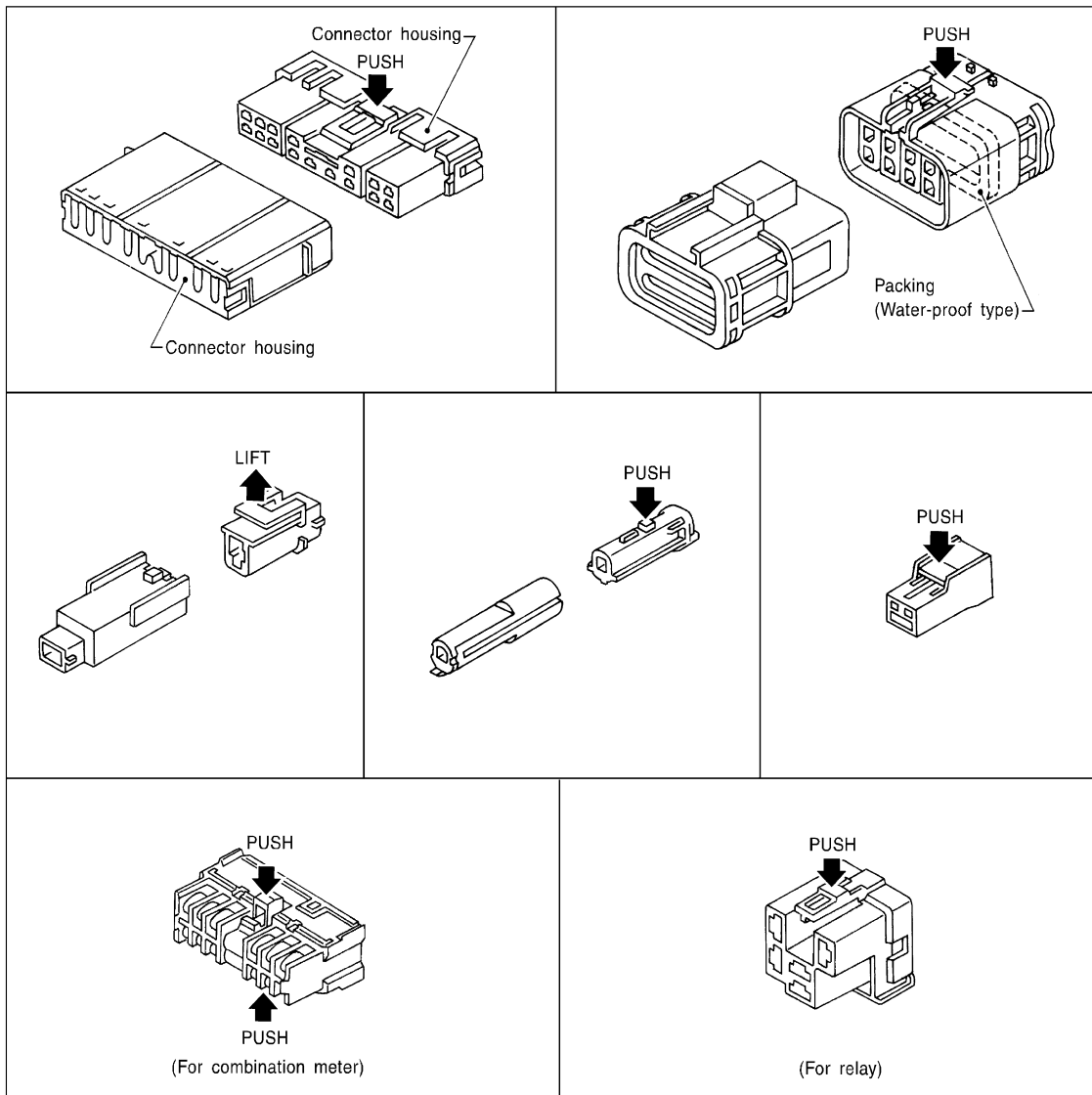
HARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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.

HARNESS CONNECTOR

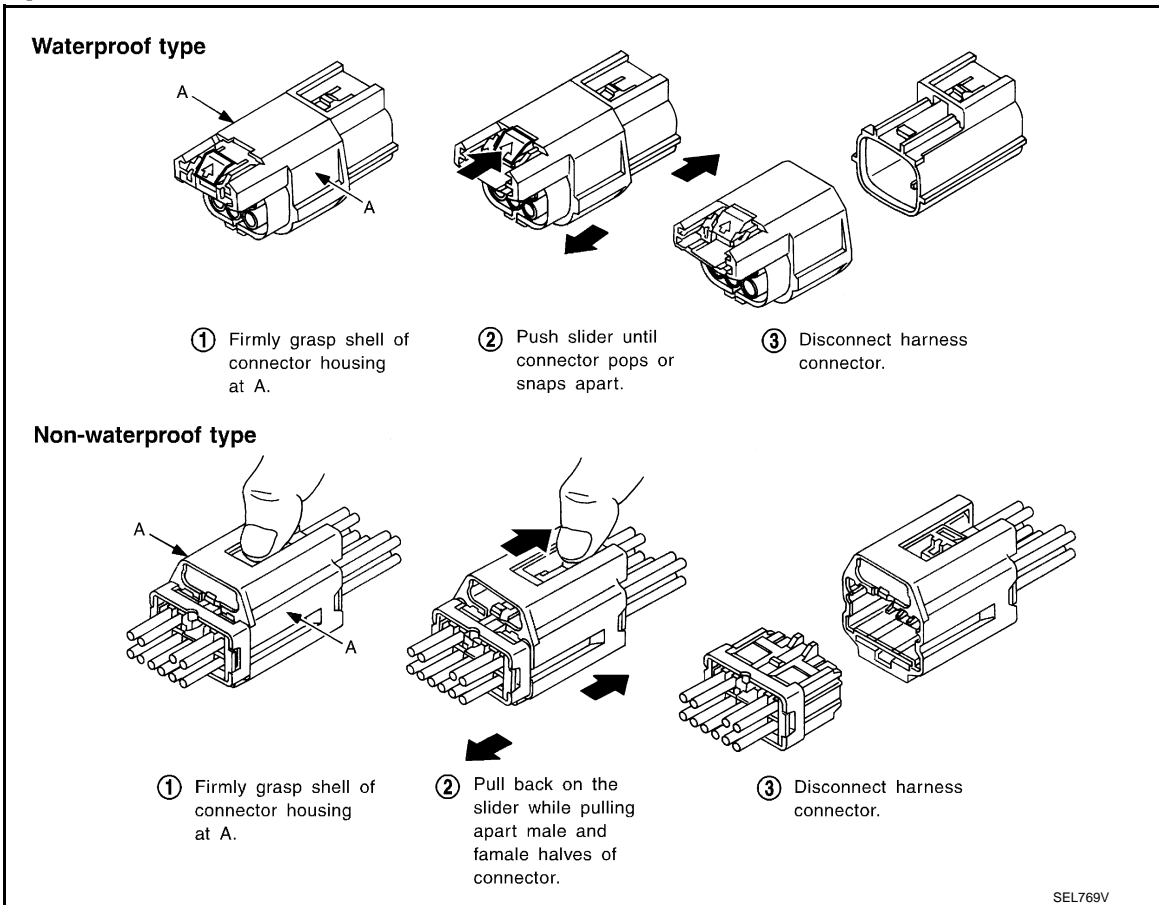
< DTC/CIRCUIT DIAGNOSIS >

[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:

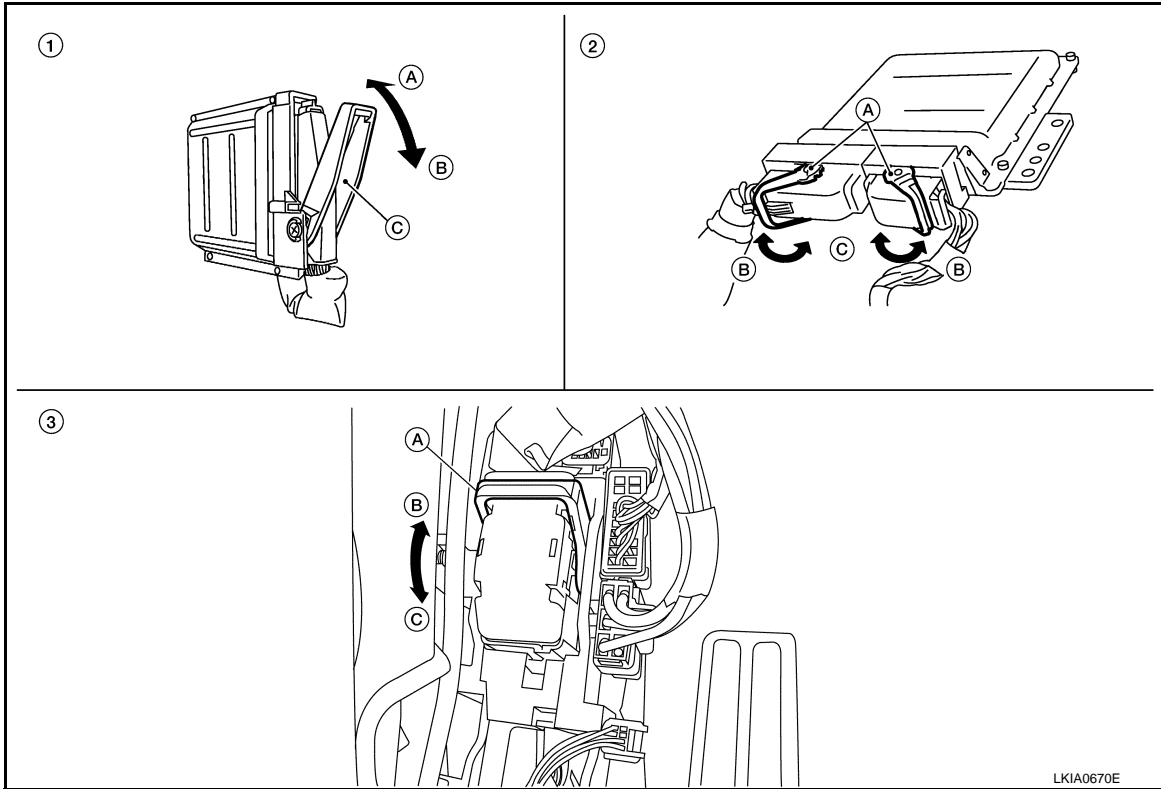
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HARNESS CONNECTOR

< 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

STANDARDIZED RELAY

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

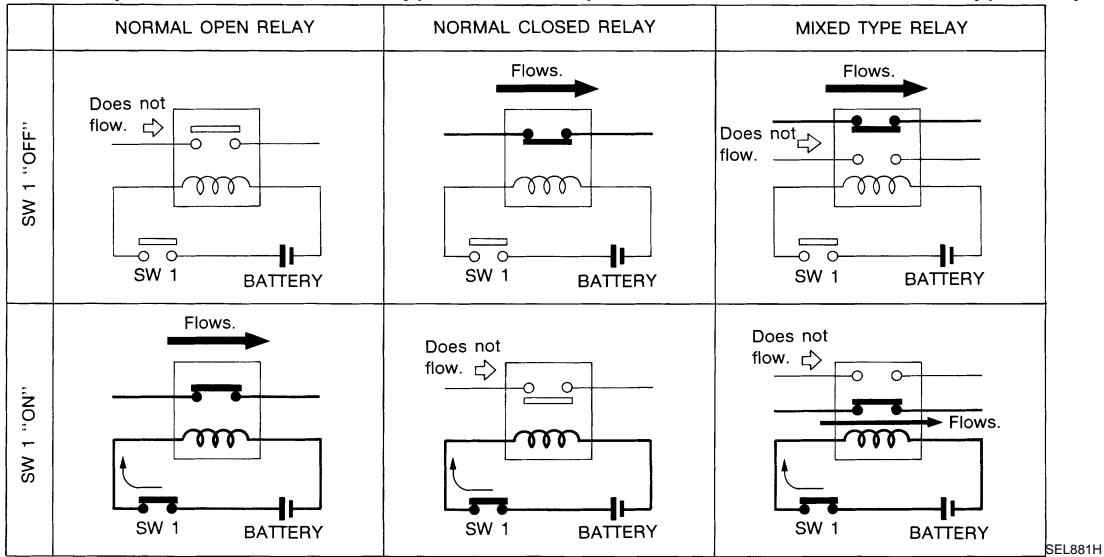
STANDARDIZED RELAY

Description

INFOID:000000011488218

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



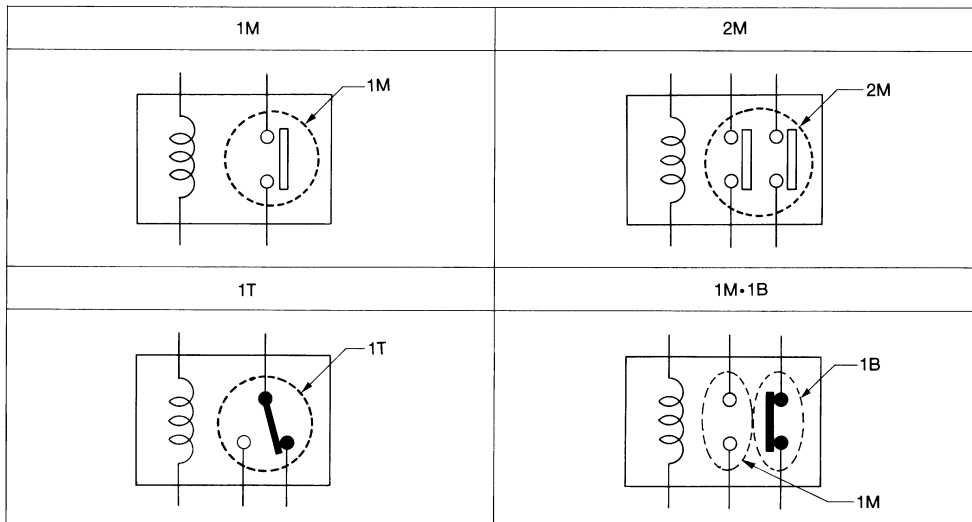
TYPE OF STANDARDIZED RELAYS

1M 1 Make

2M 2 Make

1T 1 Transfer

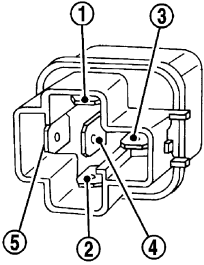
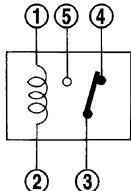
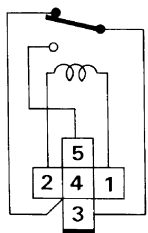
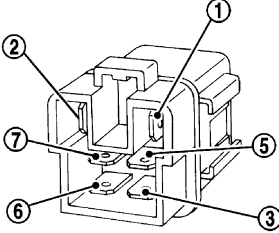
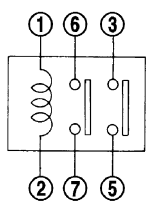
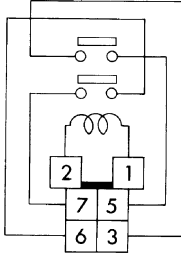
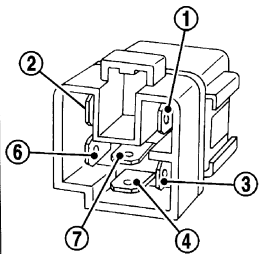
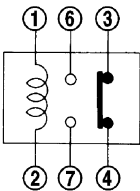
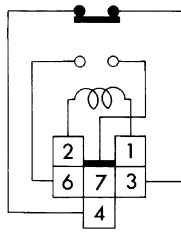
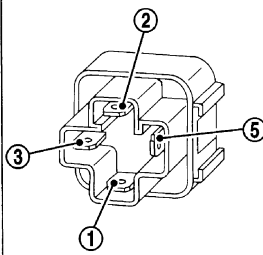
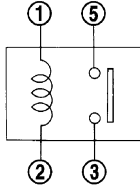
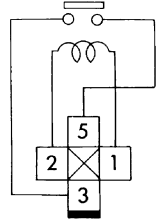
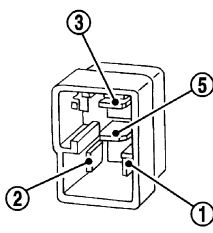
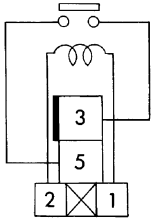
1M-1B 1 Make 1 Break



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

FUSE BLOCK - JUNCTION BOX (J/B)

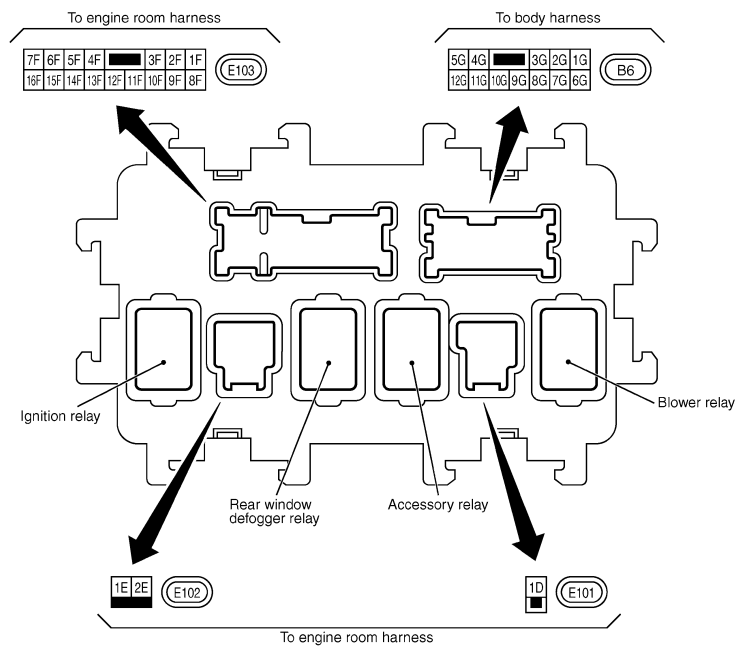
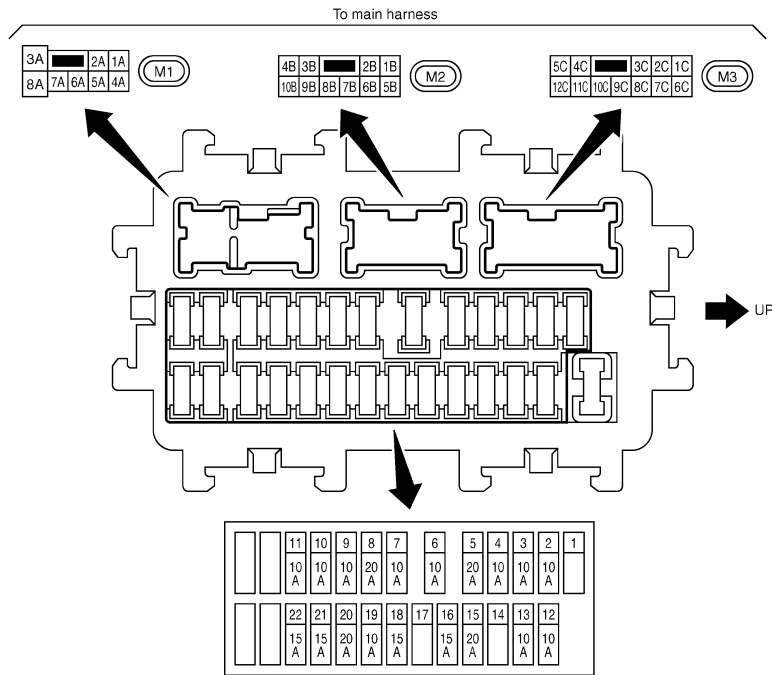
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:000000011488219



2009/11/10

JCMWA5444GB

FUSE, FUSIBLE LINK AND RELAY BOX

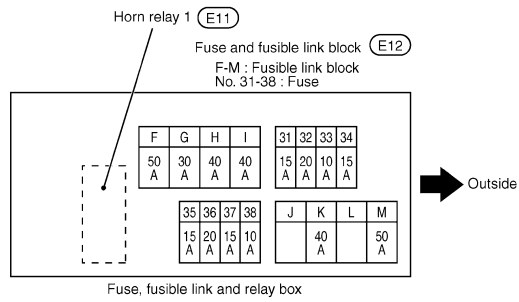
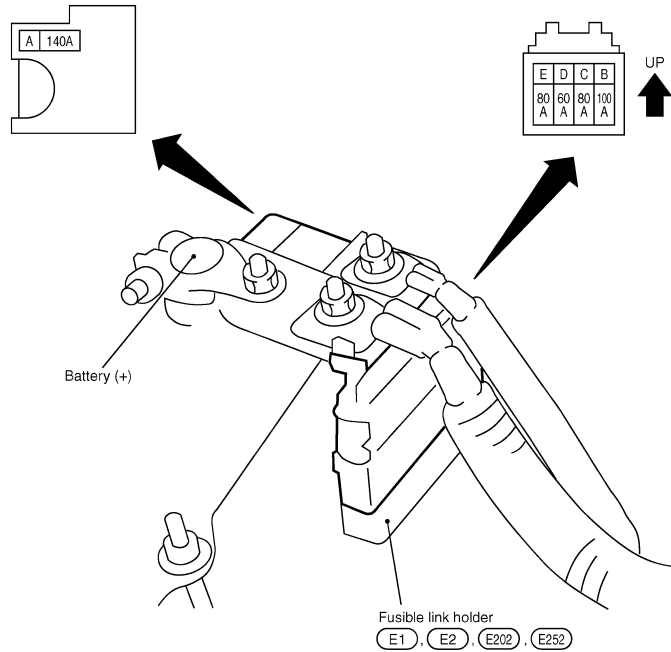
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement

INFOID:000000011488220



2008/11/21

JCMWA3917GB

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

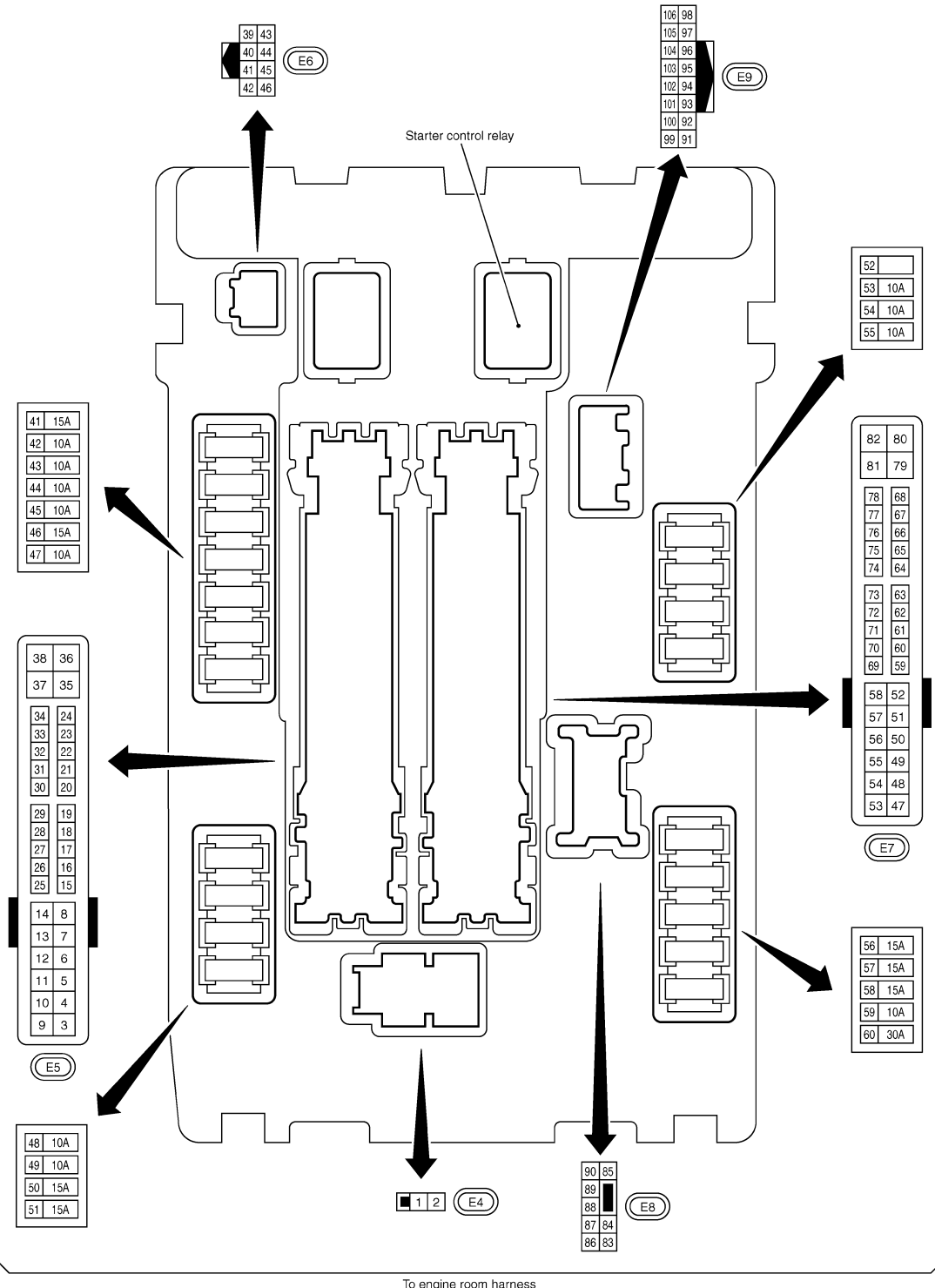
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[POWER SUPPLY & GROUND CIRCUIT]

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

Fuse, Connector and Terminal Arrangement

INFOID:000000011488221



2013/11/28

JRMWE9807GB

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PRECAUTIONS

< PRECAUTION >

[POWER SUPPLY & GROUND CIRCUIT]

PRECAUTION

PRECAUTIONS

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

INFOID:000000011488222

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 Battery Service

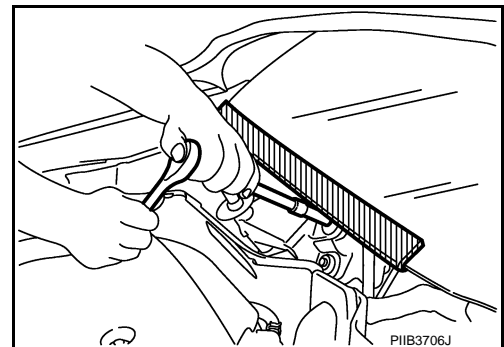
INFOID:000000011488223

Before disconnecting the battery, lower both the driver and passenger windows. This will prevent any interference between the window edge and the vehicle when the door is opened/closed. During normal operation, the window slightly raises and lowers automatically to prevent any window to vehicle interference. The automatic window function will not work with the battery disconnected.

Precaution for Procedure without Cowl Top Cover

INFOID:000000011488224

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



PRECAUTIONS

[POWER SUPPLY & GROUND CIRCUIT]

< PRECAUTION >

Precautions for Removing Battery Terminal

INFOID:000000011488225

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

NOTE:

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

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

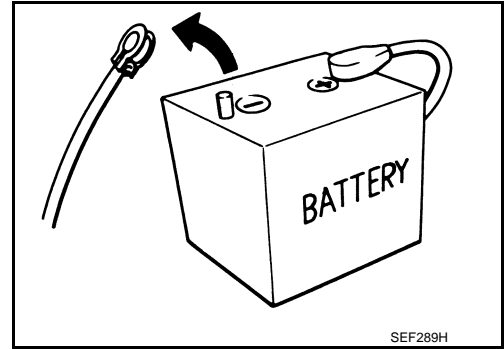
NOTE:

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

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

NOTE:

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



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PREPARATION

[POWER SUPPLY & GROUND CIRCUIT]

< PREPARATION >

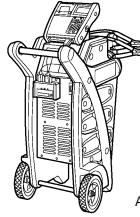
PREPARATION

PREPARATION

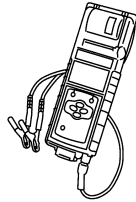
Special Service Tools

INFOID:000000011488226

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



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BATTERY

< REMOVAL AND INSTALLATION >

[POWER SUPPLY & GROUND CIRCUIT]

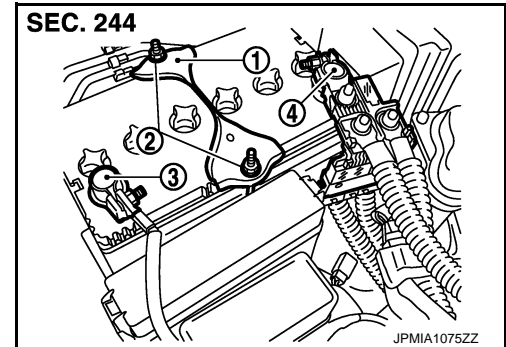
REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:000000011488227

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

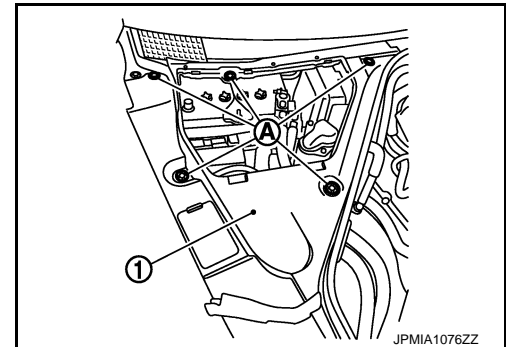


Removal and Installation

INFOID:000000011488228

REMOVAL

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

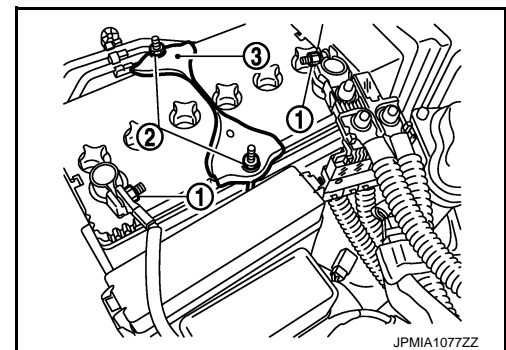


3. Remove cowl top cover RH. Refer to [EXT-28. "Exploded View"](#).
4. Remove cover of battery positive terminal.
5. Loosen battery terminal nuts (1), and disconnect both battery cables from battery terminals.

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

: 3.82 N·m (0.39 kg-m, 34 in-lb)

Battery terminal nut

: 5.4 N·m (0.55 kg-m, 48 in-lb)

BATTERY

< REMOVAL AND INSTALLATION >

[POWER SUPPLY & GROUND CIRCUIT]

Reset electronic systems as necessary. Refer to [GI-54. "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection"](#).

BATTERY TERMINAL WITH FUSIBLE LINK

< REMOVAL AND INSTALLATION >

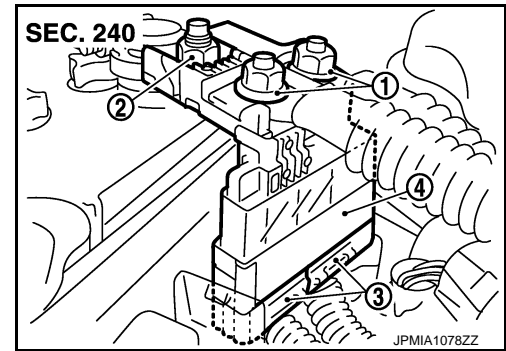
[POWER SUPPLY & GROUND CIRCUIT]

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:000000011488229

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

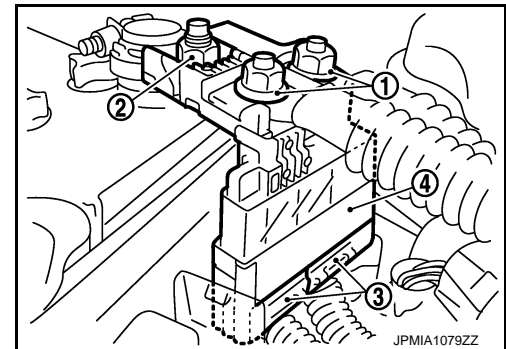


Removal and Installation

INFOID:000000011488230

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 connectors (3) and remove battery terminal with fusible link (4).



INSTALLATION

Install in the reverse order of removal.

Harness mounting nut

: 13.2 N·m (1.3 kg-m, 10 ft-lb)

Fusible link holder mounting nut

: 13.2 N·m (1.3 kg-m, 10 ft-lb)

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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:000000011488231

Type		65B24L(S)-HR
20 hour rate capacity	[V – Ah]	12 – 52
Cold cranking current (For reference value)	[A]	433