

PG

SECTION

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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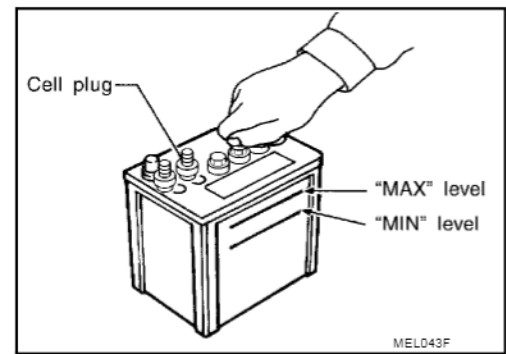
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BATTERY

[POWER SUPPLY & GROUND CIRCUIT]

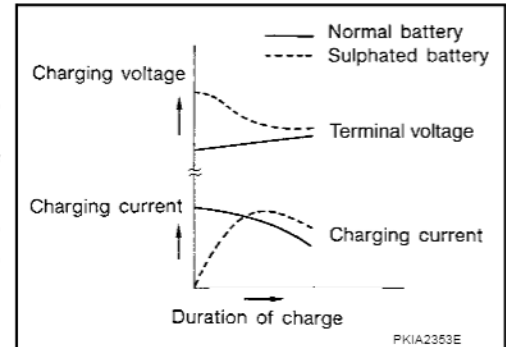
< BASIC INSPECTION >

- 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.



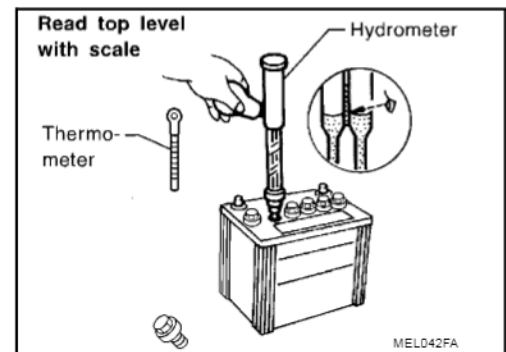
Specific Gravity Check

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

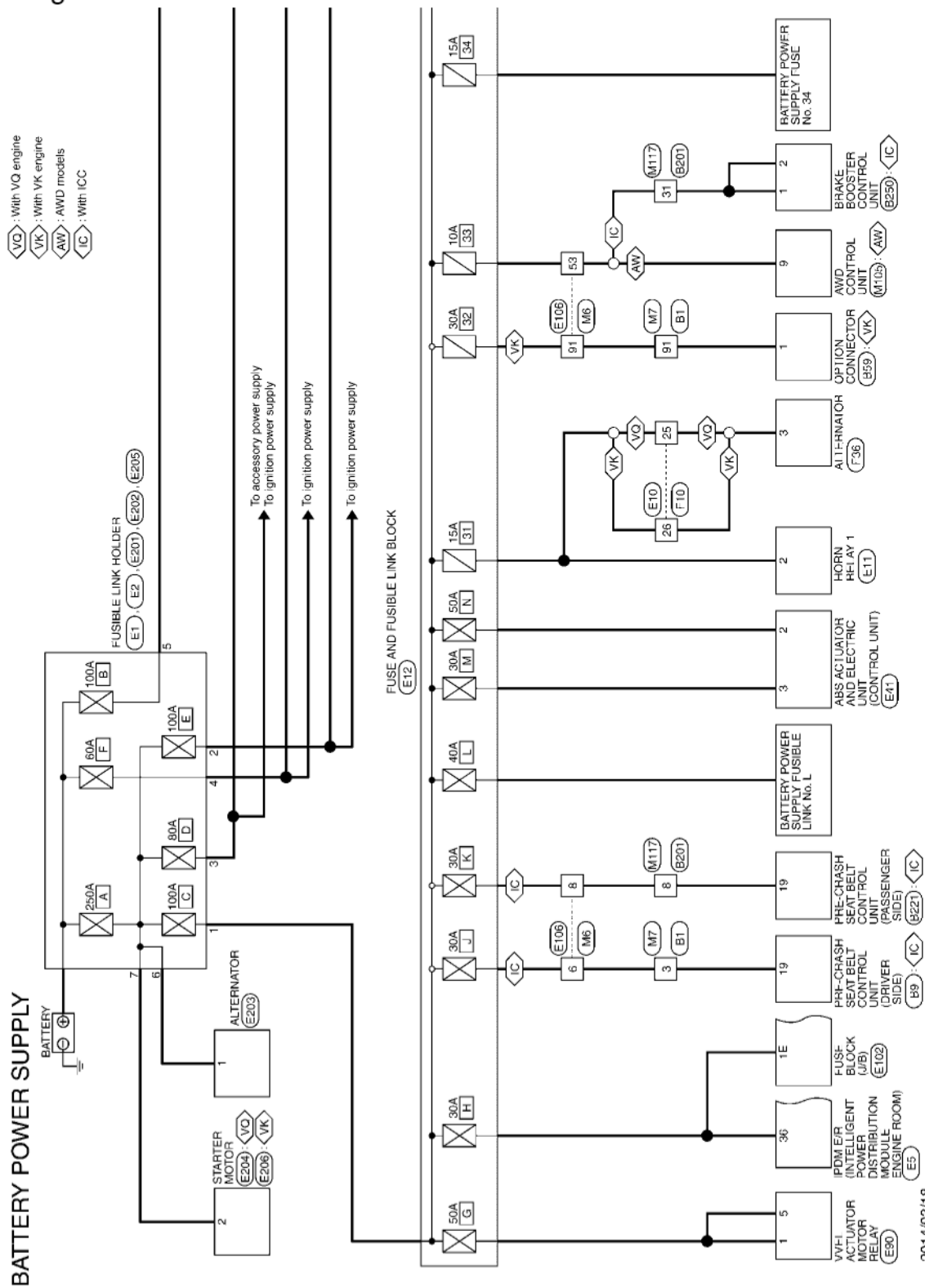
Battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
71 (160)	0.032
66 (150)	0.028
60 (140)	0.024
54 (130)	0.020
49 (120)	0.016
43 (110)	0.012
38 (100)	0.008
32 (90)	0.004
27 (80)	0
21 (70)	-0.004
16 (60)	-0.008
10 (50)	-0.012

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

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POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

BATTERY POWER SUPPLY

Connector No.	B51
Connector Name	AV COMM (H)
Connector Type	THAMW-1H
19	SB
20	LG
21	SB
22	LG
25	BG
27	L
28	P
30	SB
32	R

Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08GY-PR



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	SOUND SIGNAL WOOFER (-)
2	G	SOUND SIGNAL WOOFER (+)
4	GR	WOOFER AMP. ON SIGNAL
5	B	GROUND
6	W	BATTERY

Connector No.	B59
Connector Name	OPTION CONNECTOR
Connector Type	M01FW-LC



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

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	THAMW-1H



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

Connector No.	B87
Connector Name	TEL ADAPTER UNIT
Connector Type	TH02FW-1H



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

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH00FW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	BR	-
4	SB	-
6	BG	-
7	GR	-
8	W	-
10	G	-
11	SHIELD	-
20	L	-
21	P	-
22	GR	-
23	LG	-
24	W	-
25	V	-
26	G	-
27	Y	-
28	SHIELD	-
31	W	-
32	GR	-
33	SB	-
36	L	-
37	P	-
38	L	-
39	P	-
40	LG	-
40	V	-
41	SB	-
41	Y	-
42	V	-
42	W	-
43	B	-
43	BR	-
43	R	-
45	G	-
46	BG	-

46	SHIELD	-
47	B	-
47	L	-
48	P	-
48	R	-
49	G	-
49	W	-
50	SHIELD	-
51	W	-
52	R	-
53	G	-
54	L	-
55	SB	-
60	GR	-
61	LG	-
62	SB	-
63	P	-
64	BR	-
65	BG	-
66	Y	-
67	W	-
69	G	-
71	SB	-
72	V	-
73	LG	-
74	W	-
75	BR	-
76	V	-
77	LG	-
80	BG	-
82	P	-
83	Y	-
84	R	-
85	SB	-
86	GR	-
87	L	-
91	V	-
92	W	-
93	R	-
94	LG	-
95	GR	-
96	W	-
97	G	-
98	BG	-
99	L	-

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

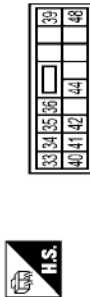
BATTERY POWER SUPPLY

Connector No.	M450
Connector Name	PUSH BUTTON IGNITION SWITCH
Connector Type	TK08FBR



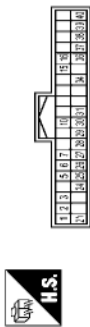
Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	B	-
3	B	-
4	B	-
5	GR	-
6	Y	-
7	V	-
8	P	-

Connector No.	M452
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	INS16FM-CS



Terminal No.	Color Of Wire	Signal Name [Specification]
33	W	POWER SUPPLY (SENSOR)
34	R	BAT (FUSE)
35	L	TILT MOTOR (UPWARD)
36	GR	TELESCOPIC MOTOR (FORWARD)
37	W	BAT (GND)
38	B	GND (SIGNAL)
39	Y	GND (SENSOR)
40	B	TILT MOTOR (DOWNWARD)
41	G	TELESCOPIC MOTOR (BACKWARD)
42	B	GND (POWER)

Connector No.	M453
Connector Name	COMBINATION METER
Connector Type	TH46FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (AMPER-SAMP)
3	GR	COMMUNICATION SIGNAL (AMP-METERS)
4	B	GROUND
5	W	ALTERNATOR SIGNAL
6	P	AIR BAG SIGNAL
7	G	SECURITY INDICATOR SIGNAL
8	B	GROUND
9	B	METER CONTROL SWITCH GROUND
10	R	IGNITION SIGNAL
11	Y	COMMUNICATION SIGNAL (LCD-AMP)
12	Y	VEHICLE SPEED SIGNAL (AMP->CD)
13	V	PARKING BRAKE SWITCH SIGNAL
14	W	BRAKE FLUID LEVEL SWITCH SIGNAL
15	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
16	G	PASSENGER SEAT BELT WARNING SIGNAL
17	L	WASHER LEVEL SWITCH SIGNAL
18	B	ILLUMINATION CONTROL SIGNAL
19	LG	SELECT SWITCH SIGNAL
20	SB	ENTER SWITCH SIGNAL
21	L	TRIP AIR RESET SWITCH SIGNAL
22	P	ILLUMINATION CONTROL SWITCH SIGNAL (1)
23	B	ILLUMINATION CONTROL SWITCH SIGNAL (2)

Connector No.	M452
Connector Name	CIRCUIT BREAKER
Connector Type	M02FM-P.L.C



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

Connector No.	M454
Connector Name	CLIMATE CONTROLLED SEAT RELAY
Connector Type	M05FER-P.L.C



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

Connector No.	M457
Connector Name	UNITED METERS AND A/C AMP.
Connector Type	TH02FM-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
41	V	A/C POWER SUPPLY
42	Y	FUEL LEVEL SENSOR SIGNAL
43	R	INTAKE SENSOR SIGNAL
44	LG	IN-VEHICLE SENSOR SIGNAL
45	P	AMBIENT SENSOR SIGNAL
46	B	SUNLOAD SENSOR SIGNAL
47	G	GAS SENSOR SIGNAL
48	B	IGNITION POWER SUPPLY
49	B	GROUND
50	L	CAH-L
51	W	BRAKE FLUID LEVEL SWITCH SIGNAL
52	B	FUEL LEVEL SENSOR GROUND
53	GR	INTAKE SENSOR GROUND
54	L	IN-VEHICLE SENSOR GROUND
55	BR	AMBIENT SENSOR GROUND
56	SB	SUNLOAD SENSOR GROUND
57	R	ION MODIE SIGNAL
58	B	ECV SIGNAL
59	L	A/C LAMP SIGNAL
60	R	EACH DOOR MOTOR POWER SUPPLY
61	B	GROUND
62	P	CAH-L

POWER SUPPLY ROUTING CIRCUIT

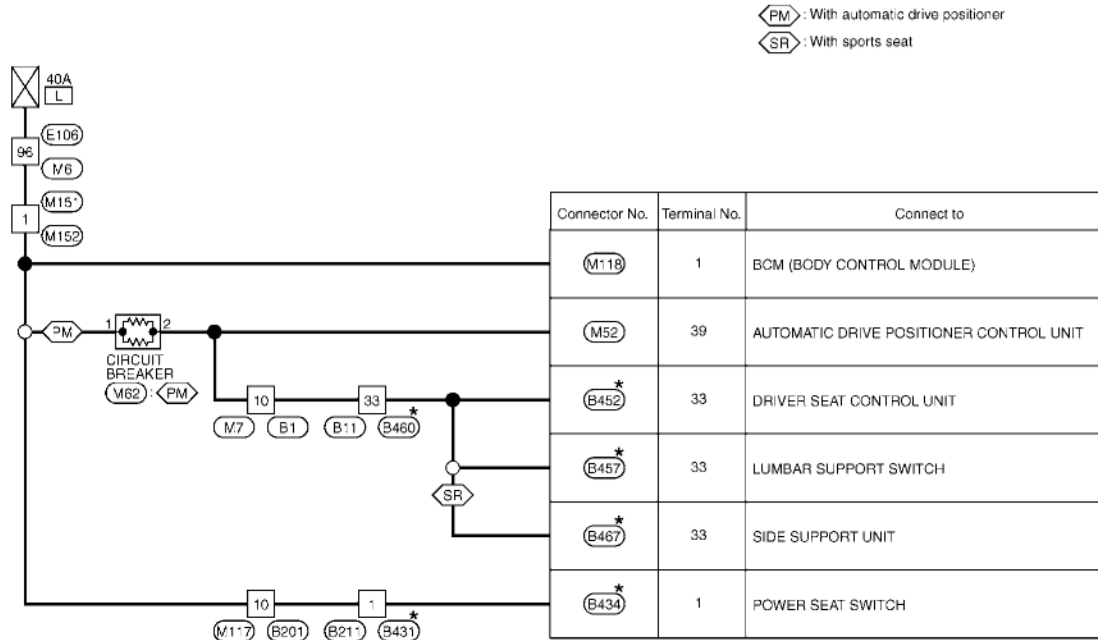
< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

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

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BATTERY POWER SUPPLY FUSIBLE LINK No. L



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

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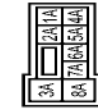
POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

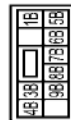
ACCESSORY POWER SUPPLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS26FW-M2



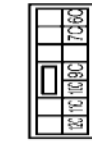
Terminal No.	Color Of Wire	Signal Name [Specification]
1A	BG	-
2A	G	-
3A	L	-
4A	R	-
5A	Y	-
6A	Y	-
7A	R	-
8A	L	-

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



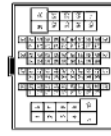
Terminal No.	Color Of Wire	Signal Name [Specification]
1B	LG	-
3B	P	-
4B	G	-
5B	BG	-
6B	Y	-
7B	L	-
8B	R	-
9B	BR	-

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



Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	-
11C	LG	-
12C	R	-
13C	P	-
14C	B	-
15C	BG	-

Connector No.	M6
Connector Name	WIRE TO WIRE
Connector Type	THE6MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	BG	-
3	LG	- Without Auto aircon seat
4	LG	- With Auto aircon seat
5	GR	-
6	W	-
7	G	-
8	W	-
9	P	-
10	BR	-
11	B	-
12	G	-
13	R	-

14	W	-
15	SHIELD	-
16	BR	-
17	L	-
18	P	-
19	G	-
20	GR	- Without ICG
21	BR	- With ICG
22	L	- Without ICG
23	R	- With ICG
24	L	-
25	W	- Without ICG
26	Y	- With ICG
27	SHIELD	-
28	GR	-
29	V	-
30	BG	-
32	W	-
33	Y	-
34	L	-
37	G	-
38	R	-
39	G	-
41	L	-
42	W	-
43	R	-
44	LG	-
45	GR	-
46	W	-
47	L	-
48	P	-
49	BG	-
50	LG	-
51	SB	-
52	Y	-
53	BG	-
54	BR	-
55	SB	-
59	SB	-
60	SB	-
61	V	-
62	P	-
63	R	-
64	L	-
65	BG	-
69	V	-

Connector No.	M7
Connector Name	WIRE TO WIRE
Connector Type	THE6MW-CS16-TM4



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	- [With Auto aircon seat]
2	Y	- [Without Auto aircon seat]
3	W	-
6	P	-
7	V	-
8	BG	-

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

Connector No.	F98
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 2)
Connector Type	AFZ24FB



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

Connector No.	F92
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 1)
Connector Type	h-Q4MB



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

Connector No.	F103
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 2)
Connector Type	RH-Q4MB



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

Connector No.	F94
Connector Name	AIR FUEL RATIO (AF) SENSOR 1 (BANK 1)
Connector Type	RH-Q4FDY-P



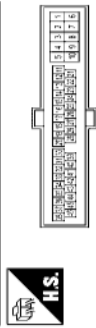
Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	-
2	R	-
3	W	-
4	Y	-

Connector No.	F95
Connector Name	AIR FUEL RATIO (AF) SENSOR 1 (BANK 2)
Connector Type	RH-Q4FDY-P



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

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK38FW-MS10



Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	-
3	W	-
4	GR	- [With VK engine]
4	R	- [With VQ engine]
5	B	- [With VK engine]
7	B	-
9	W	- [With VK engine]
9	Y	- [With VQ engine]
10	GR	- [With VQ engine]
10	L	- [With VK engine]
19	O	-
20	Y	-
27	L	-
28	B	-
29	LG	-

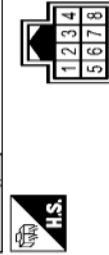
31	R	-
34	LG	-
35	BR	-
36	W	-
37	Y	-
38	Y	-
43	P	-
44	L	-
45	Y	-
46	V	-

Connector No.	F104
Connector Name	WIRE TO WIRE
Connector Type	TH48FW-NH



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

Connector No.	F105
Connector Name	WIRE TO WIRE
Connector Type	TH48MW-NH



POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

IGNITION POWER SUPPLY

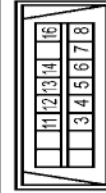
Terminal No.	Color Of Wire	Signal Name [Specification]
29	BG	I/S-L
30	L	CAN-H
32	C	SMR-2 (+)
34	W	SMR-1 (+)
36	R	SMR-2 (-)
38	B	SMR-1 (-)
40	BG	AMTSA

Connector No.	Connector Name	Connector Type
M17	ICC WARNING CHIME	A03FW



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

Connector No.	Connector Name	Connector Type
M24	DATA LINK CONNECTOR	B016FW



Terminal No.	Color Of Wire	Signal Name [Specification]
3	LG	-
4	B	-
5	B	-
6	L	-
7	GR	-
8	G	-
11	SB	-
12	P	-
13	L	-

Terminal No.	Color Of Wire	Signal Name [Specification]
14	I*	-
15	BG	-

Connector No.	Connector Name	Connector Type
M28	WARNING SYSTEMS SWITCH	TN03FGY



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

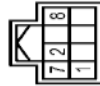
Connector No.	Connector Name	Connector Type
M33	COMBINATION SWITCH	TH01FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	P	FR WASH-ER (-)
2	SB	OUTPUT 4
3	BG	FR WASH-ER (+)
4	G	IGN
5	L	OUTPUT 3
6	B	GROUND
7	V	INPUT 3
8	BG	OUTPUT 5
9	Y	INPUT 2
10	R	INPUT 4

Terminal No.	Color Of Wire	Signal Name [Specification]
11	LG	INPUT 1
12	I*	OUTPUT 1
13	BR	INPUT 5
14	G	OUTPUT 2

Connector No.	Connector Name	Connector Type
M37	STEERING ANGLE SENSOR	TN03FW-NH



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

Connector No.	Connector Name	Connector Type
M45	LANE DEPARTURE WARNING BUZZER	NS04FRCS



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

Connector No.	Connector Name	Connector Type
M47	SOMAR CONTROL UNIT	TH04FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	W	CORNER SENSOR FRONT LH
4	R	CORNER SENSOR FRONT RH
5	W	CORNER SENSOR REAR LH
6	R	CORNER SENSOR REAR RH
12	B	SENSOR GND
13	R	IGN
19	L	CAN-H
20	P	CAN-L
24	B	GROUND

Connector No.	Connector Name	Connector Type
M53	COMBINATION METER	TH01FW-NH



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

POWER SUPPLY ROUTING CIRCUIT

< DTC/CIRCUIT DIAGNOSIS >

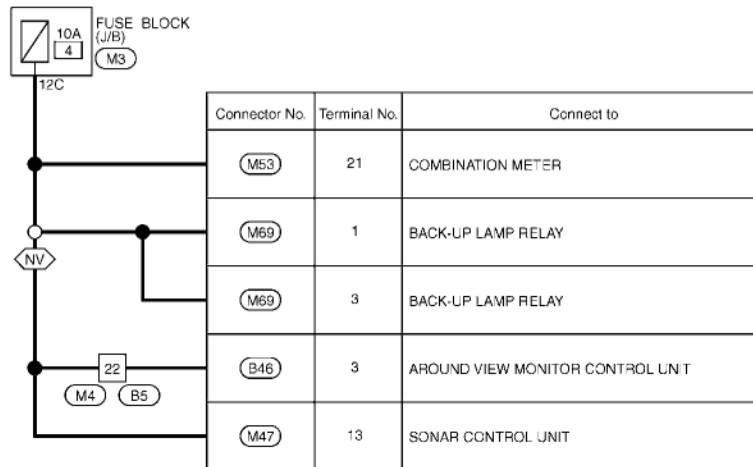
[POWER SUPPLY & GROUND CIRCUIT]

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 4 -

INFOID:0000000010577240

IGNITION POWER SUPPLY FUSE No. 4

< NV > : With NAVI



2013/02/13

JRMWD8250GB

GROUND DISTRIBUTION

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

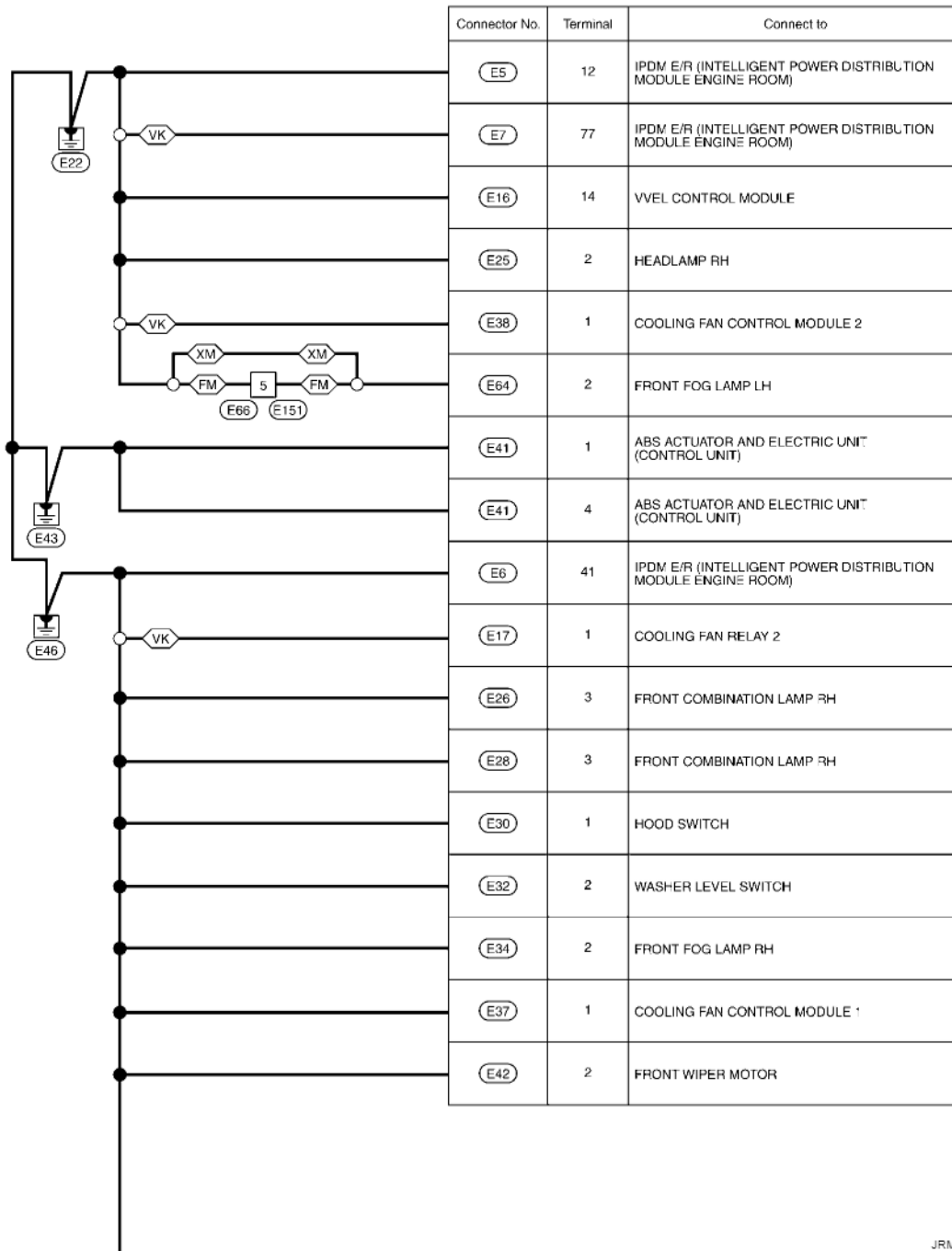
GROUND DISTRIBUTION

Engine Room Harness

ENGINE ROOM HARNESS

INFOID:0000000012142541

FM : For Mexico
 XM : Except for Mexico
 VK : With VK engine
 IC : With ICC



JRMWH4567GB

OPTION HARNESS

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

OPTION HARNESS

45	B	-
51	V	-
52	LG	-
53	SHIELD	-
54	BR	-
55	Y	-
56	SHIELD	-
57	P	-
58	I	-
59	SHIELD	-
60	L	-
61	BR	-
62	R	-
63	Y	-
64	L	-
65	W	-
66	V	-
67	LG	-
68	Y	-
69	G	-
70	V	-
71	W	-
72	B	-
73	W	-
74	LG	-
75	P	-
76	LG	-
77	SB	-
78	GR	-
79	R	-
80	L	-
81	P	-
82	L	-
83	P	-
84	SB	-
85	W	-
86	Y	-
87	B	-
88	G	-
89	BG	-
91	R	-
92	BG	-
93	BR	-
94	V	-
96	BG	-
97	W	-
98	R	-
99	BG	-

Connector No.	M118
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	M03FBL-C



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

Connector No.	M119
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	NS16FW-C5



Terminal No.	Color Of Wire	Signal Name [Specification]
4	P	INT ROOM LAMP PWR SUPPLY (BAT SAVE)
5	V	PASSENGER DOOR UNLOCK OUTPUT
7	Y	STEP LAMP OUTPUT
8	V	ALL DOOR FUEL LID LOCK OUTPUT
9	G	DRIVER DOOR FUEL LID UNLOCK OUTPUT
10	BR	REAR DOOR UNLOCK OUTPUT
11	R	BAT (FUSE)
13	B	GROUND
15	Y	ACC IND
17	W	TURN SIGNAL RH (FRONT)
18	BG	TURN SIGNAL LH (FRONT)
19	SB	ROOM LAMP TIMER

Connector No.	M133
Connector Name	OPTION CONNECTOR (1)
Connector Type	TH08MW-AH



Terminal No.	Color Of Wire	Signal Name [Specification]
3	SB	ROOM LAMP BAT SAVER (POWER)
6	R	ROOM LAMP OUTPUT

Connector No.	M151
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC



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

Connector No.	M152
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC



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

JRMWF4543GB

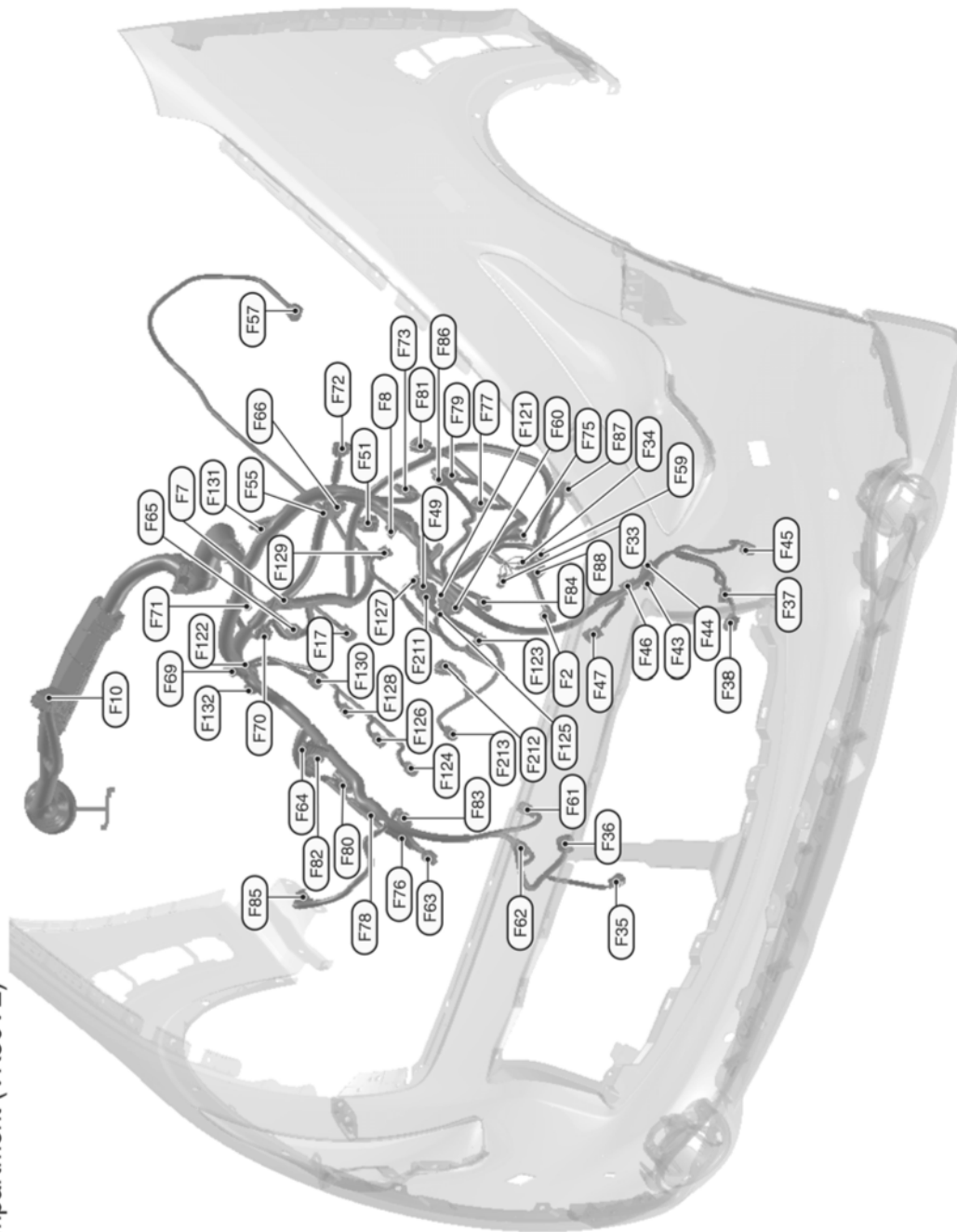
HARNESS LAYOUT

< DTC/CIRCUIT DIAGNOSIS >

[POWER SUPPLY & GROUND CIRCUIT]

Engine Compartment

ENGINE CONTROL HARNESS /
Engine Compartment (VK50VE)



2012/06/05

JRMIC1833GB

HARNESS CONNECTOR

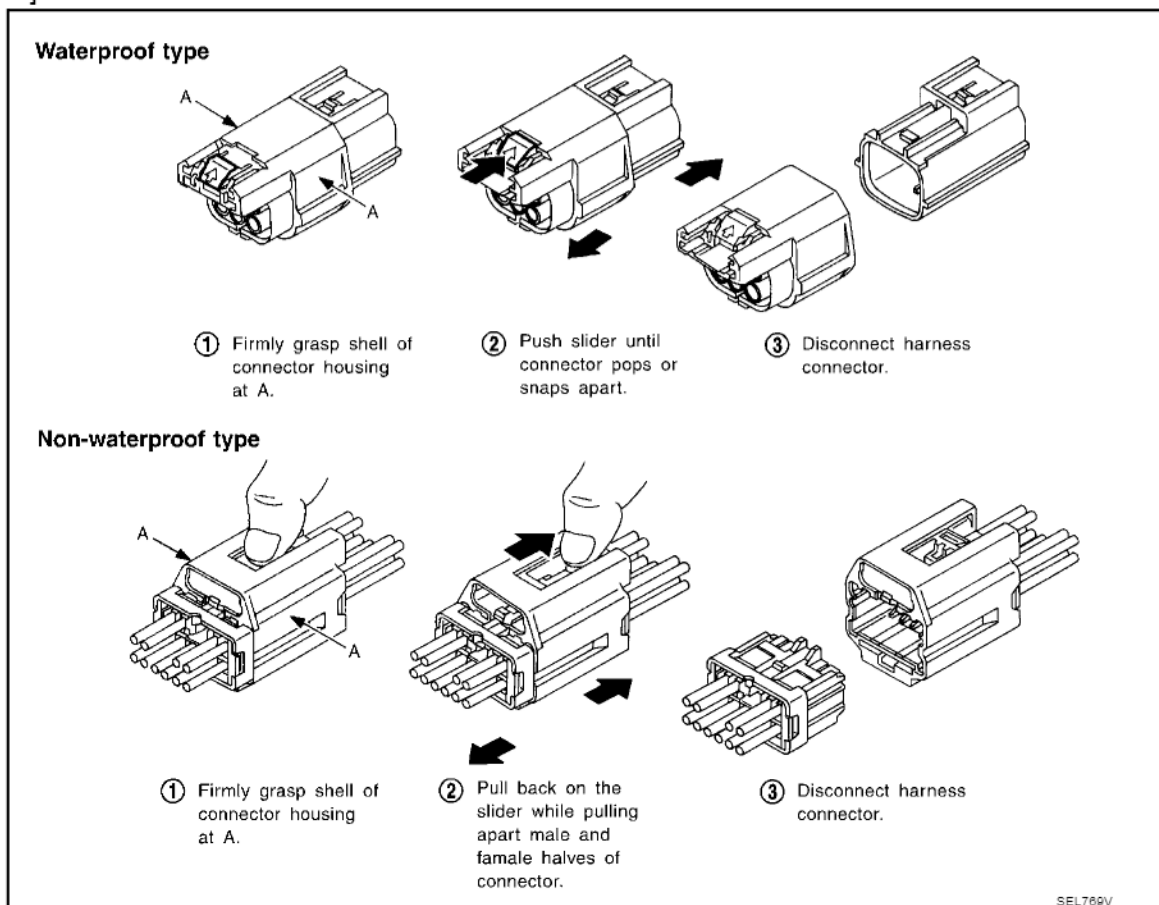
< DTC/CIRCUIT DIAGNOSIS >

[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: