SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

CONTENTS

BASIC INSPECTION

BATTERY

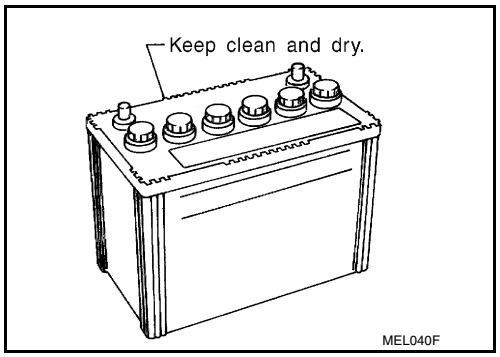
How to Handle Battery

INFOID:0000000012168976

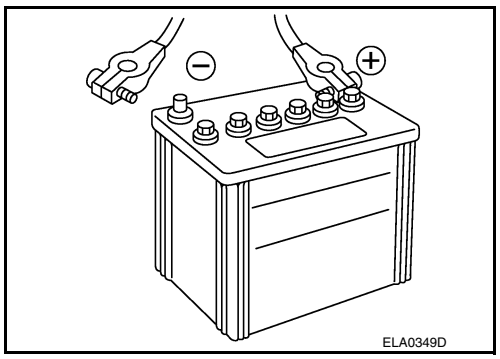
CAUTION:
- **If it becomes necessary to start the engine with a booster battery and jumper cables, use a 12-volt booster battery.**
- **After connecting battery cables, ensure that they are tightly clamped to battery terminals for good contact.**
- **Never add distilled water through the hole used to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

METHODS OF PREVENTING OVER-DISCHARGE

The following precautions must be taken to prevent over-discharging a battery.
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level. This also applies to batteries designated as “low maintenance” and “maintenance-free”.



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



Work Flow

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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

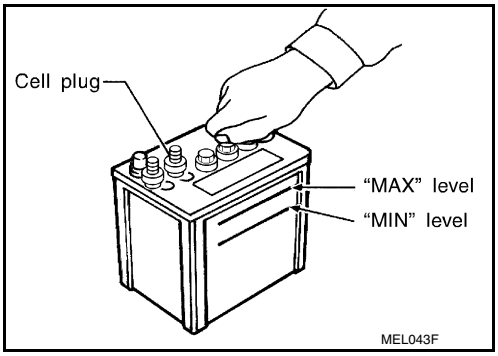
NOTE:
Refer to the applicable instruction manual for proper battery diagnosis procedures.

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

Check Electrolyte Level

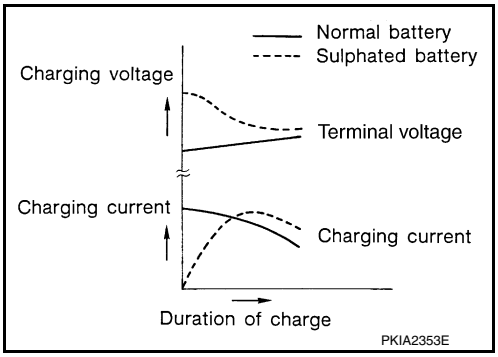
WARNING:
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical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

- 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.**



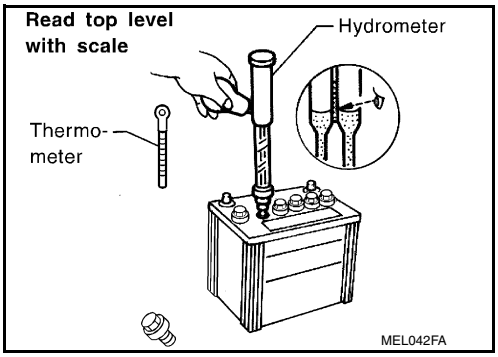
Specific Gravity Check

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

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

Charging The Battery

CAUTION:

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

Charging Rates (Standard Charge)

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

Charging Rates (Quick Charge)

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

NOTE:

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

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

DTC/CIRCUIT DIAGNOSIS

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

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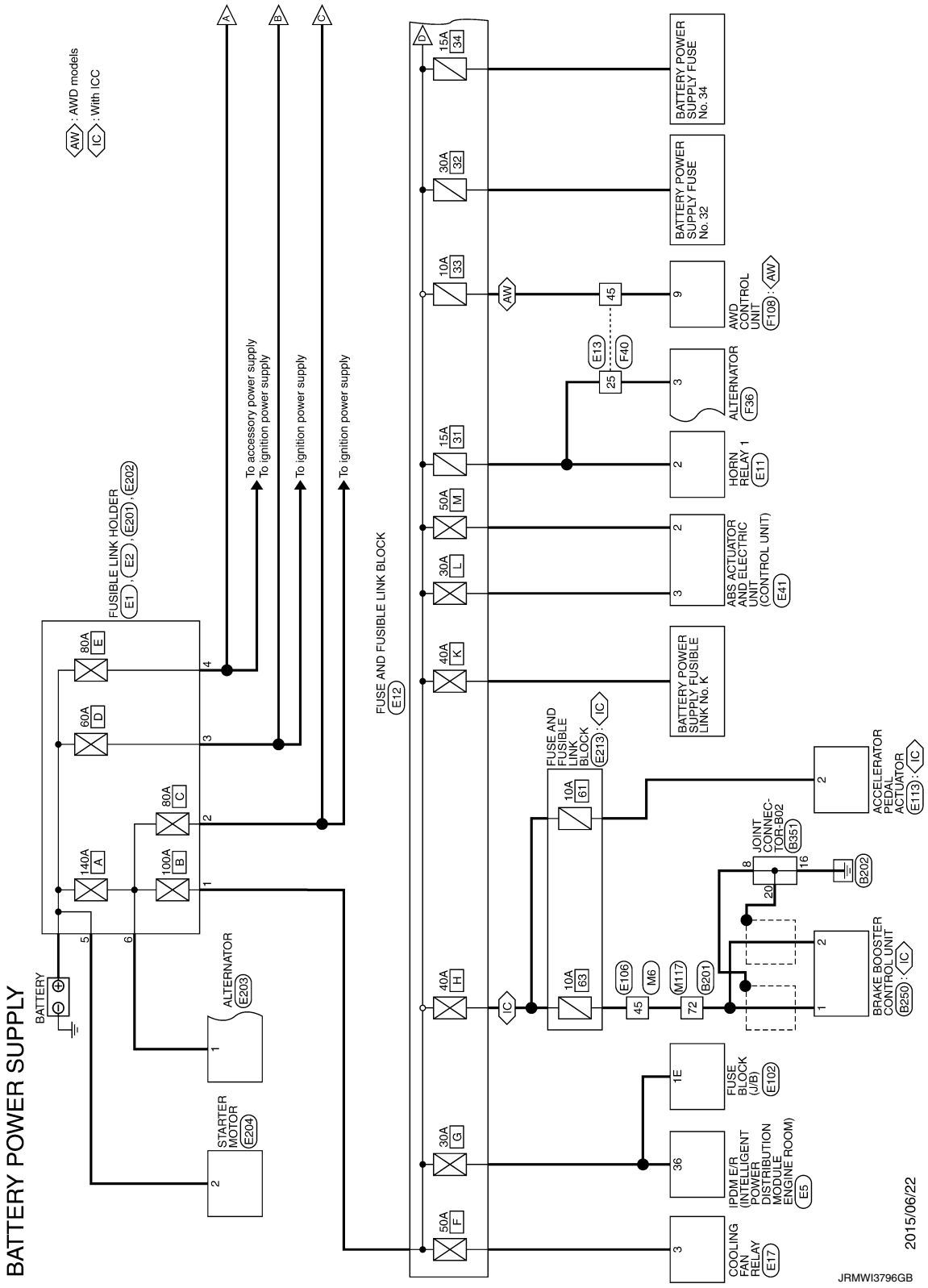
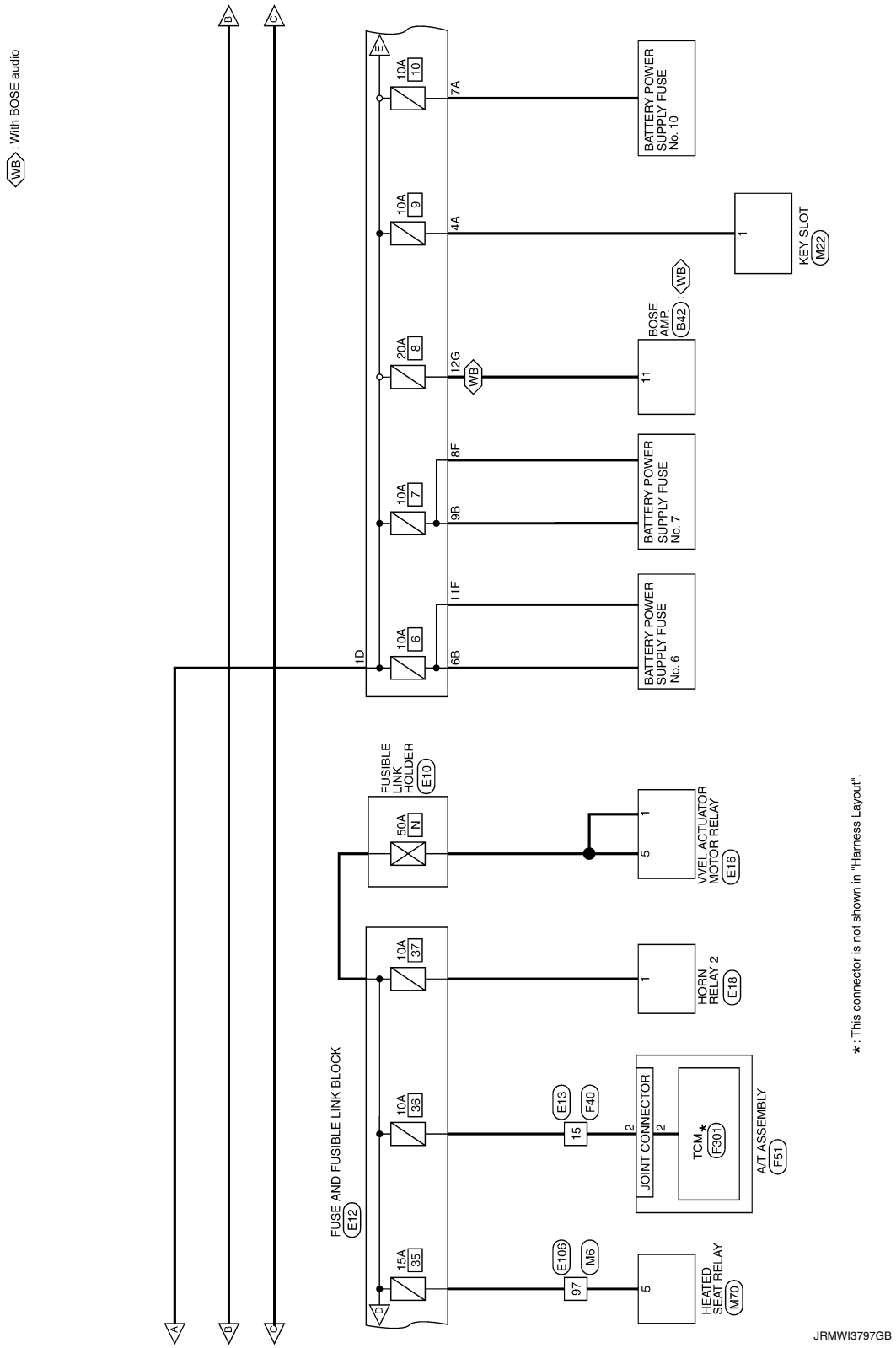
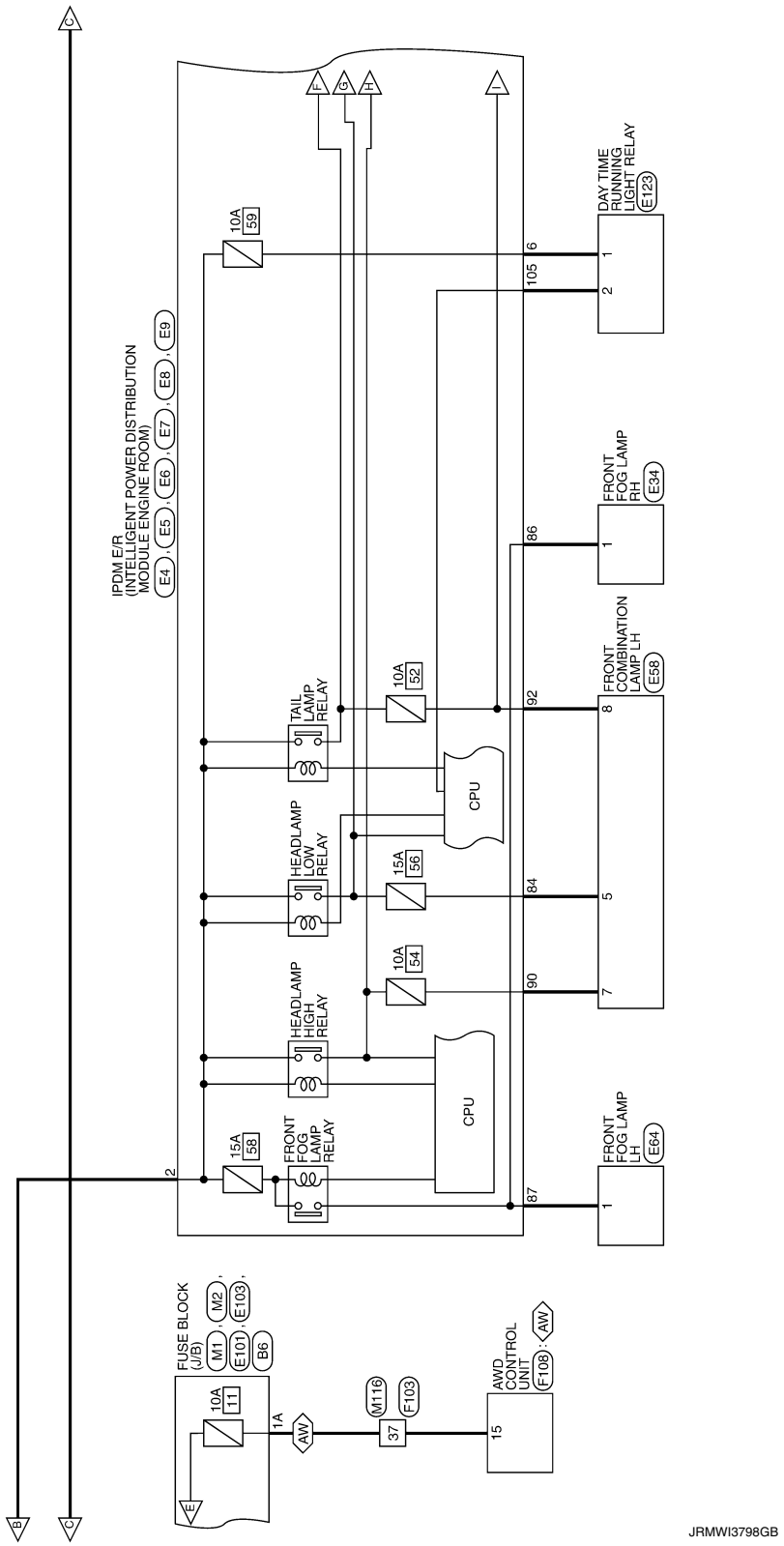
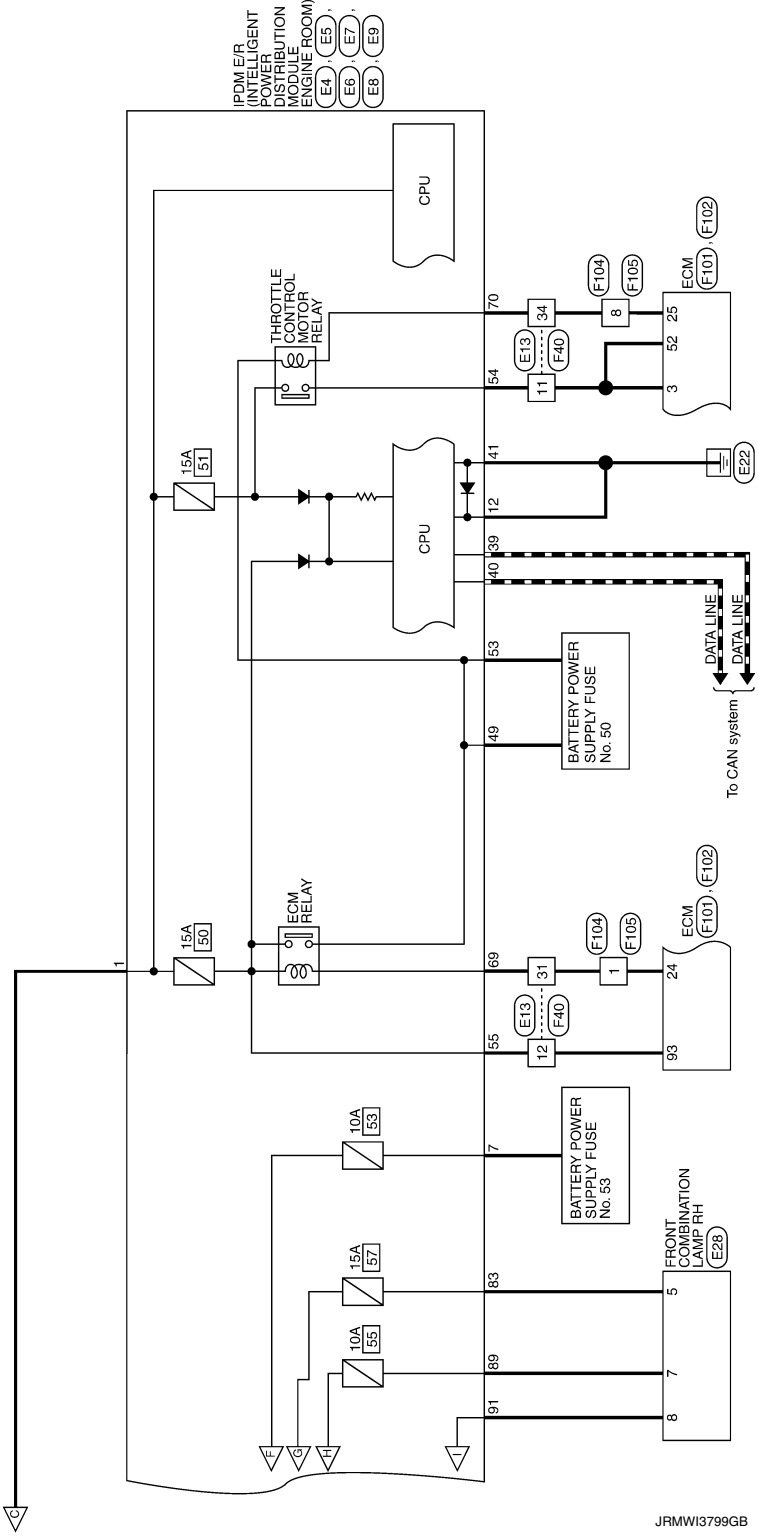



WB : With BOSE audio
BATTERY POWER SUPPLY FUSE No. 10
BATTERY POWER SUPPLY FUSE No. 7
BATTERY POWER SUPPLY FUSE No. 6
KEY SLOT M22
BOSE AMP. B42 : WB
FUSIBLE LINK HOLDER E10
VVEL ACTUATOR MOTOR RELAY E16
HORN RELAY 2 E18
HEATED SEAT RELAY M70
FUSE AND FUSIBLE LINK BLOCK E12
JOINT CONNECTOR
TCM* F301
A/T ASSEMBLY F51
*: This connector is not shown in "Harness Layout".
JRMWI3797GB


IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E4, E5, E6, E7, E8, E9
10A 59
DAY TIME RUNNING LIGHT RELAY
E123
FRONT FOG LAMP RH
E34
FRONT COMBINATION LAMP LH
E58
TAIL LAMP RELAY
10A 52
HEADLAMP LOW RELAY
15A 56
10A 54
HEADLAMP HIGH RELAY
CPU
15A 58
FRONT FOG LAMP RELAY
FRONT FOG LAMP LH
E64
FUSE BLOCK (J/B)
M1, E101, B6
M2, E103
10A 11
1A
AW
M116
F103
37
AWD CONTROL UNIT
F108
15
JRMWI3798GB


IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E4, E5, E6, E7, E8, E9
CPU
THROTTLE CONTROL MOTOR RELAY
ECM RELAY
15A 51
15A 50
10A 53
15A 57
10A 55
BATTERY POWER SUPPLY FUSE No. 50
BATTERY POWER SUPPLY FUSE No. 53
ECM F101, F102
F104, F105
E13, F40
E22
DATA LINE
To CAN system
FRONT COMBINATION LAMP RH E28
JRMWI3799GB

BATTERY POWER SUPPLY

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS

H.S.

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

Connector No.	B42
Connector Name	BOSE AMP.
Connector Type	SGA12FBR-SJA2

H.S.

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

Connector No.	B51
Connector Name	WOOFER
Connector Type	RS08FGY-PR

H.S.

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	V	BATTERY

Connector No.	B60
Connector Name	REAR COMBINATION LAMP LH
Connector Type	TH04MW-NH

H.S.

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

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

H.S.

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

Connector No.	B92
Connector Name	AROUND VIEW MONITOR CONTROL UNIT
Connector Type	TH40FW-NH

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	L	BATTERY [Without Blind Spot Warning]
2	Y	BATTERY [With Blind Spot Warning]
3	P	IGNITION SIGNAL
4	GR	ACC
19	SB	AV COMM (H)
20	LG	AV COMM (L)
25	V	REVERSE SIGNAL
27	L	CAN-H
28	P	CAN-L [Without Blind Spot Warning]
28	Y	CAN-L [With Blind Spot Warning]

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	–
2	R	–
3	GR	–
4	BG	–
7	LG	–
10	W	–
15	SB	–
16	V	–
17	BR	–
18	GR	–
19	P	–
26	BR	–
27	L	–
28	Y	–
29	Y	–
30	GR	–
31	R	–
32	BR	–
33	G	–
51	R	–
55	G	–
56	R	–
57	W	–
58	B	–
59	SHIELD	–
60	LG	–
61	W	–
62	BR	–

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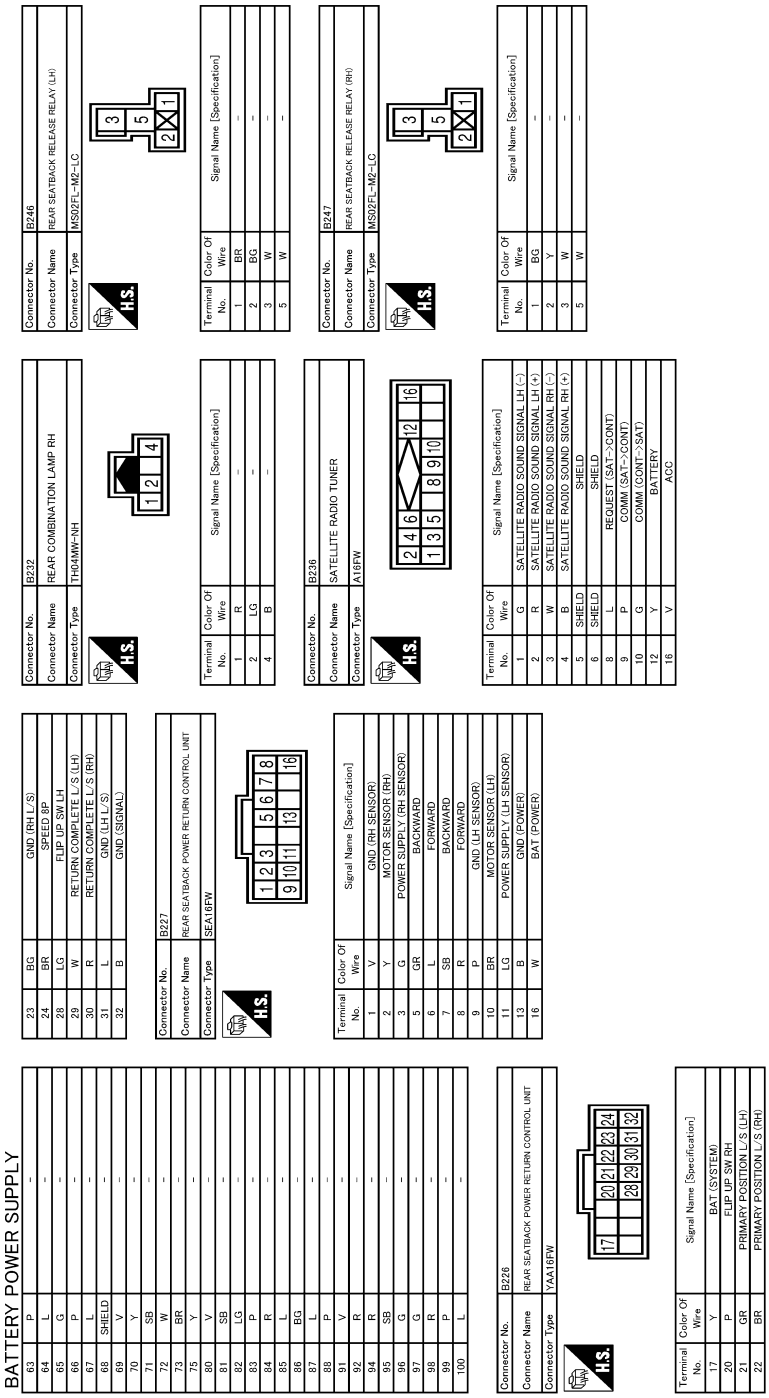

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BATTERY POWER SUPPLY

Connector No.	B250
Connector Name	BRAKE BOOSTER CONTROL UNIT
Connector Type	TK24FW

H.S.

1	2			5	6		8
10			12	14	15		17
19	20	21				22	24

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

Connector No.	B253
Connector Name	EVAP CANISTER VENT CONTROL VALVE
Connector Type	E02FB-RS

H.S.

1	2

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

Connector No.	B351
Connector Name	JOINT CONNECTOR-B02
Connector Type	NH24FGY-J

H.S.

4	5	6	7
8	9	10	11
12	13	14	15
16	17	18	19
20	21	22	

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	–
4	SHIELD	–
5	LG	–
6	R	–
8	SHIELD	–
10	R	–
12	SHIELD	–
13	GR	–
14	Y	–
16	B	–
17	P	–
18	LG	–
20	SHIELD	–
21	P	–
22	LG	–

Connector No.	B452
Connector Name	DRIVER SEAT CONTROL UNIT
Connector Type	NS12HW

H.S.

36	35			34	33
43	42	41	40	39	38

Terminal No.	Color Of Wire	Signal Name [Specification]
33	–	BAT (PTC)
34	–	SLIDE MOTOR (BACKWARD)
35	–	RECLINER MOTOR (FORWARD)
36	–	FRONT LIFTER MOTOR (DOWNWARD)
38	–	SLIDE MOTOR (FORWARD)
39	–	RECLINER MOTOR (BACKWARD)
40	–	FRONT LIFTER MOTOR (UPWARD)
41	–	REAR LIFTER MOTOR (UPWARD)
42	–	REAR LIFTER MOTOR (DOWNWARD)
43	–	GND

Connector No.	B457
Connector Name	LUMBAR SUPPORT SWITCH
Connector Type	NS04FW-CS

H.S.

58	57	43	33

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

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH

H.S.

12	11	10		7	6	5		3	2	1
24	23	22	21		19	18	17			14

Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	–
2	O	–
3	BR	–
5	P	CONT
6	SB	COMP+
7	W	ON
10	G	–
11	P	–
12	O	–
14	LG	–
17	SHIELD	COMP–
18	LG	GROUND
19	B	–
21	GR	–
22	BR	–
23	Y	–
24	V	–

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

H.S.

3	5		6	7	2	1	4

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

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

H.S.

							7
8	9	10		12	13	14	15	16

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	–
7	V	–
8	B	–

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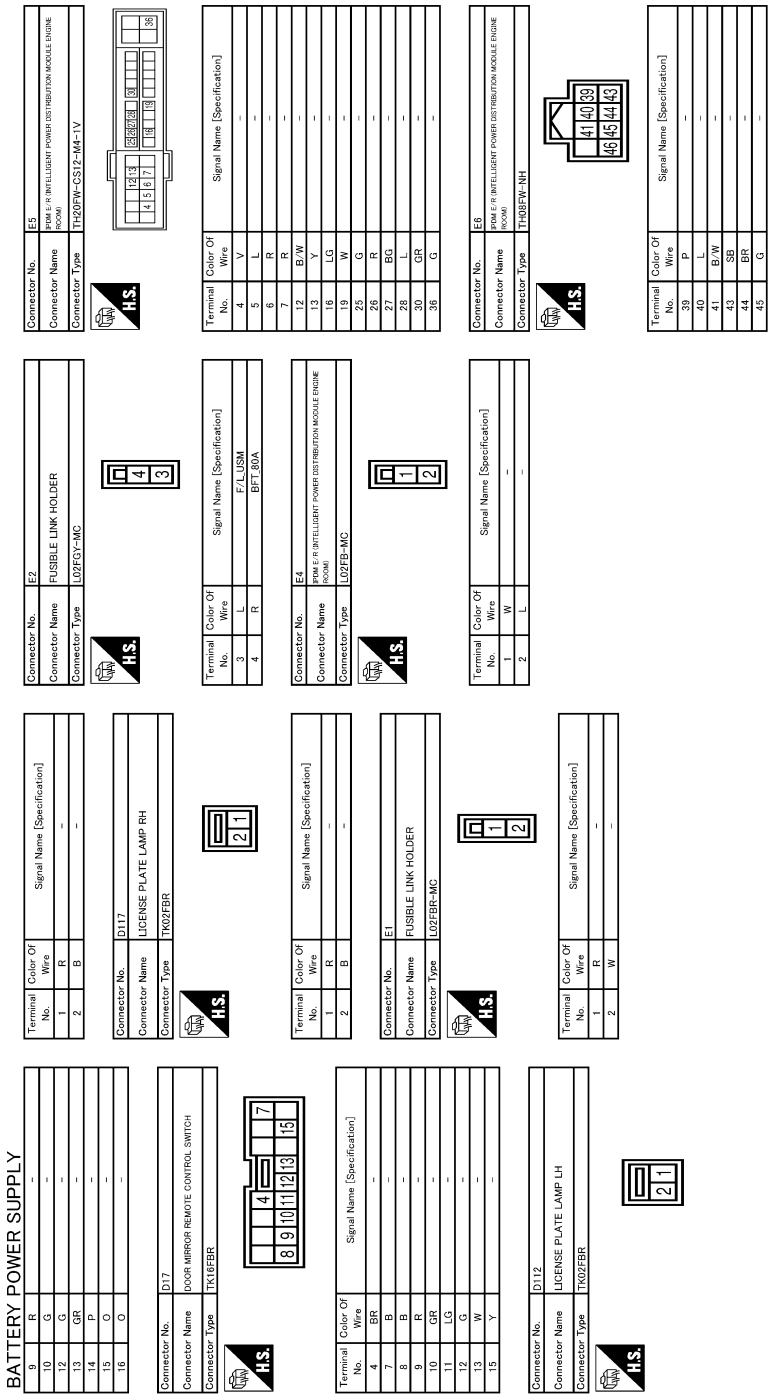

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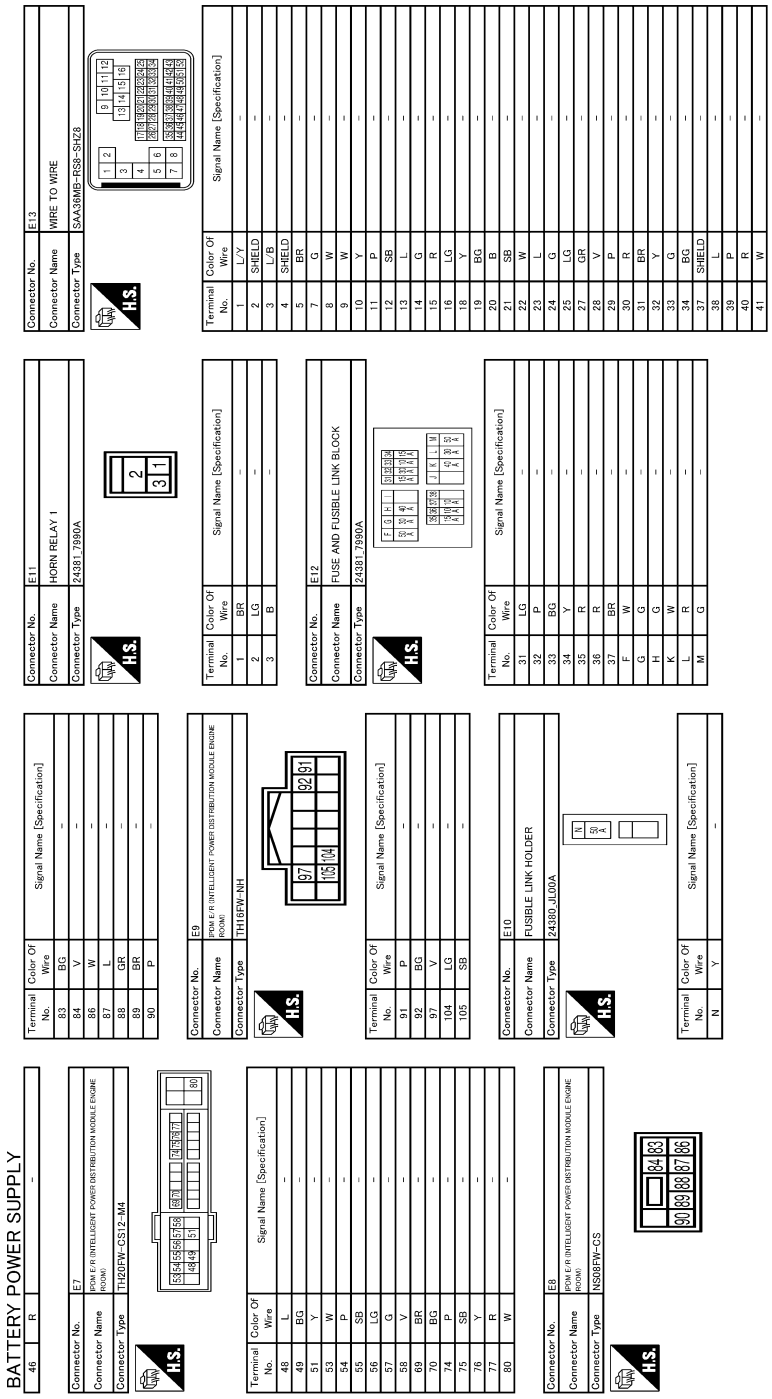

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BATTERY POWER SUPPLY

42	LG	–
43	G	–
45	BG	–
46	SHIELD	–
47	W	–
48	BR	–
49	G	–
50	B	–
51	SB	–
52	R	–

Connector No. E14
Connector Name VVEL CONTROL MODULE
Connector Type RH18FB-AJ28-RH

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

Connector No. E16
Connector Name VVEL ACTUATOR MOTOR RELAY
Connector Type 24347-9F800

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

Connector No. E17
Connector Name COOLING FAN RELAY
Connector Type 24347-9F800

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

Connector No. E18
Connector Name HORN RELAY 2
Connector Type M03FW-R-LC

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

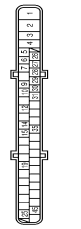
Connector No. E28
Connector Name FRONT COMBINATION LAMP RH
Connector Type RS08FB-PR

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

Connector No. E34
Connector Name FRONT FOG LAMP RH
Connector Type FH202FB

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

Connector No. E41
Connector Name ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type BAA42FB-AH24-LH



Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	GROUND
2	G	UBMR
3	R	UBVR
4	B	GROUND
5	Y	DS FL
6	BG	DP RL
7	BR	DP RR
9	B	DP FR
10	W	DS FR
12	L	VAC
14	P	CAN–L
15	SHIELD	GROUND
19	P	UST
25	Y	BUS–L
26	LG	DP FL
27	GR	DS RL
28	G	UZ
29	LG	DS RR

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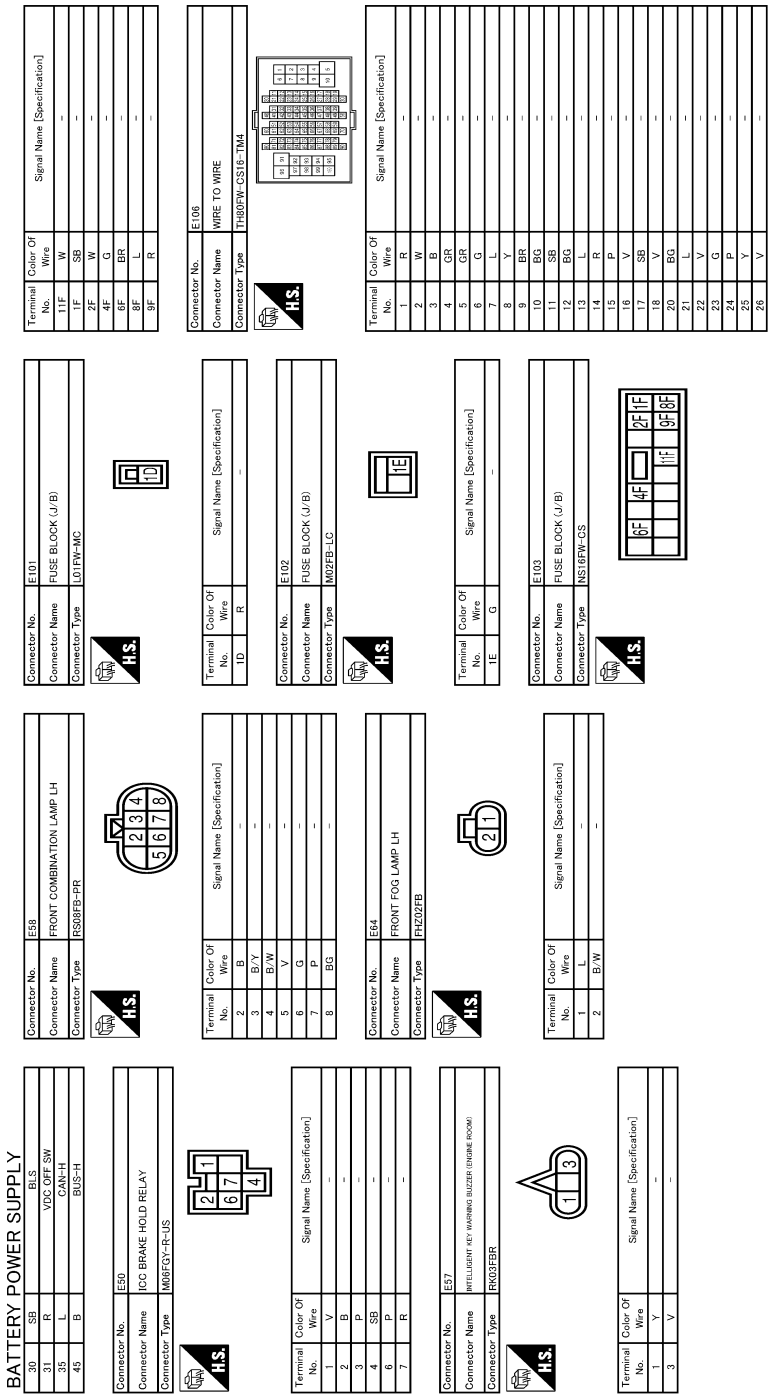

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BATTERY POWER SUPPLY

27	W	–
28	G	–
31	BG	–
32	W	–
33	B	–
34	R	–
35	G	–
36	SHIELD	–
37	V	–
38	BR	–
39	BG	–
41	W	–
42	G	–
43	BR	–
45	W	–
49	L	–
50	P	–
51	L	–
54	BG	–
57	BR	–
59	W	–
60	LG	–
61	G	–
62	SB	–
63	W	–
64	B	–
65	G	–
66	R	–
67	SHIELD	–
68	Y	–
69	LG	–
70	W	–
71	R	–
72	Y	–
73	B	– (With ICC)
74	BR	– (Without ICC)
74	L	– (With ICC)
75	G	– (Without ICC)
75	W	– (With ICC)
76	W	– (Without ICC)
76	Y	– (With ICC)
77	P	– (Without ICC)
77	R	– (With ICC)
78	BR	– (Without ICC)
78	L	– (With ICC)
79	L	– (Without ICC)
79	Y	– (With ICC)
80	SB	–
81	R	–
82	SB	–
83	BG	–
84	G	–
85	L	–
86	P	–
87	V	–
89	GR	–
90	SHIELD	–
91	W	–
92	Y	–
93	V	–
94	LG	–
95	BG	–
96	P	–
97	R	–
98	SHIELD	–
99	L	–
100	P	–

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

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

Connector No. E113
Connector Name ACCELERATOR PEDAL ACTUATOR
Connector Type KDZ06FB

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

Connector No. E123
Connector Name DAYTIME RUNNING LIGHT RELAY
Connector Type MS02FL-M2-LC

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

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

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

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

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

Connector No. E203
Connector Name ALTERNATOR
Connector Type 24340_65F45

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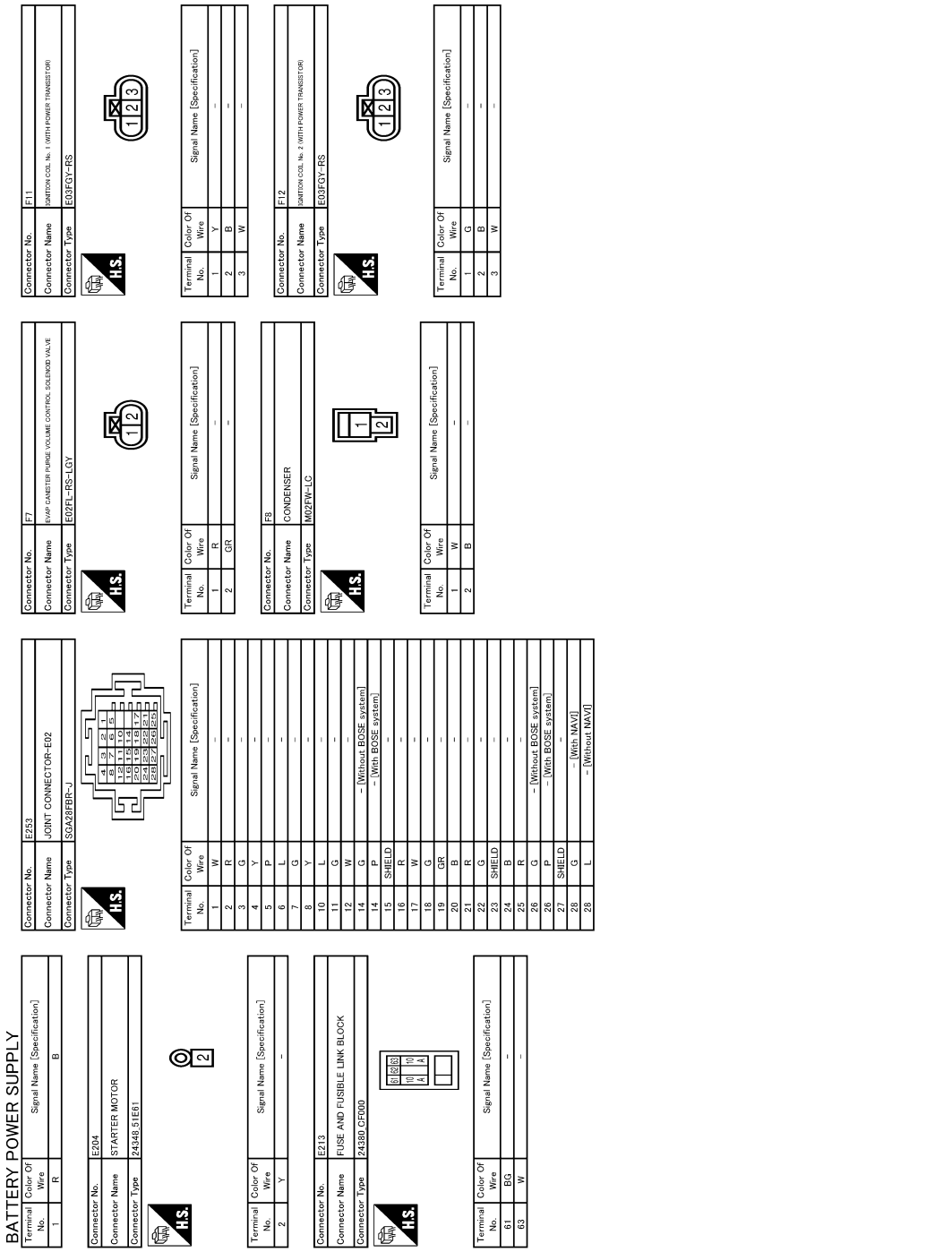

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BATTERY POWER SUPPLY

Connector No.	F13
Connector Name	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

1 2 3

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

Connector No.	F14
Connector Name	IGNITION COIL No. 4 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

1 2 3

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

Connector No.	F15
Connector Name	IGNITION COIL No. 5 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

1 2 3

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

Connector No.	F16
Connector Name	IGNITION COIL No. 6 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

1 2 3

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

Connector No.	F28
Connector Name	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)
Connector Type	E02FG-RS-LGY

H.S.

1 2

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

Connector No.	F29
Connector Name	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)
Connector Type	E02FG-RS-LGY

H.S.

1 2

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

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

H.S.

1 2 3 4 5

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

Connector No.	F36
Connector Name	ALTERNATOR
Connector Type	HS03FB

H.S.

4 3 2

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

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BATTERY POWER SUPPLY

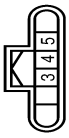
Connector No.	F40
Connector Name	WIRE TO WIRE
Connector Type	SAA38FB-RS8-SHZ8

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L/Y	–
2	SHIELD	–
3	L/B	–
4	SHIELD	–
5	BR	–
7	G	–
8	W	–
9	W	–
10	G	–
11	R	–
12	P	–
13	L	–
14	LG	–
15	BR	–
16	Y	–
18	LG	–
19	P	–
20	O	–
21	Y	–
22	G	–
23	Y	–
24	LG	–
25	V	–
27	GR	–
28	BR	–
29	L	–
30	R	–
31	P	–
32	W	–
33	SB	–
34	O	–
37	SHIELD	–
38	W	–
39	Y	–
40	G	–
41	B	–
42	GR	–
43	R	–
45	O	–
46	SHIELD	–
47	W/L	–
48	LG	–
49	O/L	–
50	L/Y	–
51	W	–
52	L/G	–

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

H.S.



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

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	Y	IGNITION POWER SUPPLY
2	BR	BATTERY POWER SUPPLY
3	O	CAN-H
4	V	K-LINE
5	B	GROUND
6	Y	IGNITION POWER SUPPLY
7	R	BACK-UP LAMP RELAY
8	LG	CAN-L
9	GR	STARTER RELAY
10	B	GROUND

Connector No.	F101
Connector Name	ECM
Connector Type	RH40FB-RZ8-L-LH-Z

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	A/F SENSOR 1 HEATER (BANK 1)
2	G	THROTTLE CONTROL MOTOR (BANK 1) (OPEN)
3	R	THROTTLE CONTROL MOTOR RELAY POWER SUPPLY (BANK 1)
4	BR	THROTTLE CONTROL MOTOR (BANK 1) (CLOSE)
5	W	A/F SENSOR 1 HEATER (BANK 2)
8	B	ECM GROUND
11	GR	IGNITION SIGNAL #4
12	L	IGNITION SIGNAL #3
15	V	IGNITION SIGNAL #5
16	G	IGNITION SIGNAL #2
17	P	HEATED OXYGEN SENSOR 2 HEATER (BANK 1)
18	W	IVT CONTROL SOLENOID VALVE (BANK 1)
19	SB	IGNITION SIGNAL #6
20	Y	IGNITION SIGNAL #1
21	GR	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
22	R	FUEL PUMP RELAY
24	P	ECM RELAY (SELF SHUT-OFF)
25	O	THROTTLE CONTROL MOTOR RELAY
28	BR	VVEL ACTUATION MOTOR RELAY ABSAT SIGNAL (VVEL CONTROL MODULE)
29	G	IVT CONTROL SOLENOID VALVE (BANK 2)
30	Y	THROTTLE POSITION SENSOR 1 (BANK 1)
31	R	THROTTLE POSITION SENSOR 1 (BANK 2)
33	SB	HEATED OXYGEN SENSOR 2 HEATER (BANK 2)
34	B	THROTTLE POSITION SENSOR 2 (BANK 1)
35	W	THROTTLE POSITION SENSOR 2 (BANK 2)
36	O	SENSOR GROUND
37	W	CRANKSHAFT POSITION SENSOR (POS)
38	O	MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR
39	P	BRAKE BOOSTER PRESSURE SENSOR
40	R	SENSOR GROUND
43	G	SENSOR POWER SUPPLY
44	L	SENSOR POWER SUPPLY
45	LG	SENSOR POWER SUPPLY
46	R	SENSOR POWER SUPPLY
47	Y	SENSOR GROUND
48	B	SENSOR GROUND

Connector No.	F102
Connector Name	ECM
Connector Type	RH40FBR-RZ8-L-LH-Z

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
49	GR	THROTTLE CONTROL MOTOR (CLOSE) (BANK 2)
50	V	THROTTLE CONTROL MOTOR (OPEN) (BANK 2)
52	R	THROTTLE CONTROL MOTOR RELAY POWER SUPPLY (BANK 2)
53	W	IGNITION SWITCH
54	Y	CAN COMMUNICATION LINE (VVEL CONTROL MODULE)
55	LG	CAN COMMUNICATION LINE (VVEL CONTROL MODULE)
57	L	A/F SENSOR 1 (BANK 1)
59	O	CAMSHAFT POSITION SENSOR (PHASE) (BANK 1)
60	G	SENSOR POWER SUPPLY
61	R	A/F SENSOR 1 (BANK 1)
63	L	CAMSHAFT POSITION SENSOR (PHASE) (BANK 2)
64	SB	SENSOR POWER SUPPLY
65	LG	A/F SENSOR 1 (BANK 2)
66	V	A/F SENSOR 1 (BANK 2)
67	P	INTAKE AIR TEMPERATURE SENSOR
68	LG	SENSOR GROUND
69	W	KNOCK SENSOR (BANK 2)
71	Y	ENGINE COOLANT TEMPERATURE SENSOR
72	SHIELD	SENSOR GROUND
73	W	KNOCK SENSOR (BANK 1)
76	W	HEATED OXYGEN SENSOR 2 (BANK 1)
77	SB	MASS AIR FLOW SENSOR (BANK 1)
78	G	ENGINE OIL TEMPERATURE SENSOR
79	BR	MASS AIR FLOW SENSOR (BANK 2)
80	O	HEATED OXYGEN SENSOR 2 (BANK 2)
81	R	FUEL INJECTOR #3
82	V	FUEL INJECTOR #6

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BATTERY POWER SUPPLY

84	B	SENSOR GROUND
85	BR	FUEL INJECTOR #2
86	W	FUEL INJECTOR #5
87	Y	POWER STEERING PRESSURE SENSOR
89	GR	FUEL INJECTOR #1
90	O	FUEL INJECTOR #4
91	SB	BATTERY CURRENT SENSOR
92	G	SENSOR GROUND
93	P	POWER SUPPLY FOR ECM (BACK-UP)
94	Y	SENSOR GROUND
95	G	SENSOR GROUND
96	P	SENSOR GROUND

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	–
3	W	–
4	R	–
5	B	–
9	Y	–
10	GR	– [Without ICC]
19	BG	– [With ICC]
20	Y	–
28	B	–
29	LG	–
31	R	–
33	GR	–
34	B	–
35	L	–
36	P	–
37	Y	–
38	G	–
43	LG	–
44	O	–
45	Y	–
46	V	–

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

H.S.

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	TH08MW-NH

H.S.

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

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

H.S.

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

Connector No.	F301
Connector Name	TCM
Connector Type	SP10FG

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	–	IGNITION POWER SUPPLY
2	–	BATTERY POWER SUPPLY
3	–	CAN-H
4	–	K-LINE
5	–	GROUND
6	–	IGNITION POWER SUPPLY
7	–	BACK-UP LAMP RELAY
8	–	CAN-L
9	–	STARTER RELAY

10	–	GROUND

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

H.S.

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

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

H.S.

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

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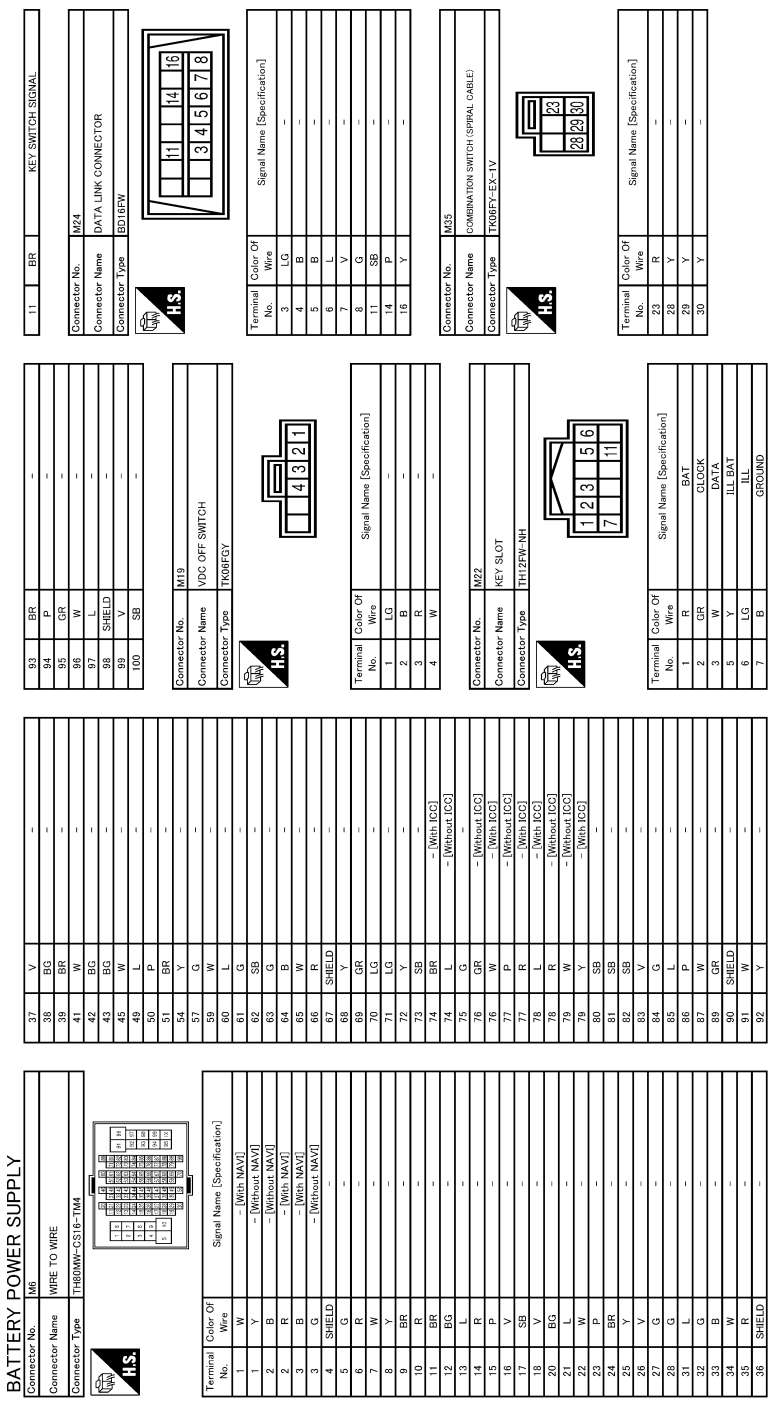

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BATTERY POWER SUPPLY

Connector No.	M50
Connector Name	PUSH-BUTTON IGNITION SWITCH
Connector Type	TK08FBR

H.S.

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

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP.->METER)
5	B	GROUND
6	P	ALTERNATOR SIGNAL
7	BR	AIR BAG SIGNAL
10	G	SECURITY SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
19	B	ILL GND
20	R	ILL
21	BG	IGNITION SIGNAL
22	B	GROUND
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	COMMUNICATION SIGNAL (AMP.->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
30	G	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
31	L	WASHER LEVEL SWITCH SIGNAL
33	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP A/B RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

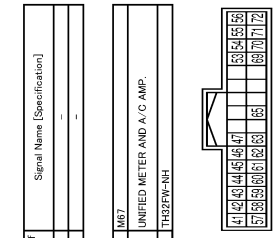
Connector No.	M62
Connector Name	CIRCUIT BREAKER
Connector Type	M02FW-P-LC

H.S.

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

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

H.S.



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

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

H.S.

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

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

H.S.

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

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

H.S.

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

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BATTERY POWER SUPPLY

Connector No.	M79
Connector Name	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
Connector Type	NS06FW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
25	SB	BAT
26	L	BACKWARD
27	P	STRG SENS VCC
28	G	DOWNWARD
29	LG	UPWARD/FRONTWARD
30	B	GND

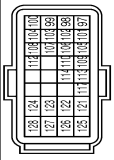
Connector No.	M102
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW

H.S.

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

Connector No.	M107
Connector Name	ECM
Connector Type	RH24FGY-RZ8-R-LH-2

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
97	R	ACCELERATOR PEDAL POSITION SENSOR 1
98	P	ACCELERATOR PEDAL POSITION SENSOR 2 [Without ICC]
98	Y	ACCELERATOR PEDAL POSITION SENSOR 2 [With ICC]
99	G	SENSOR POWER SUPPLY [With ICC]
99	L	SENSOR POWER SUPPLY [Without ICC]
100	W	SENSOR GROUND
101	SB	ASCD/ICC STEERING SWITCH
102	LG	EVAP CONTROL SYSTEM PRESS SENSOR
103	G	SENSOR POWER SUPPLY [Without ICC]
103	L	SENSOR POWER SUPPLY [With ICC]
104	BR	SENSOR GROUND [With ICC]
104	GR	SENSOR GROUND [Without ICC]
105	L	REFRIGERANT PRESS SENSOR
106	W	FUEL TANK TEMPERATURE SENSOR
107	BG	SENSOR POWER SUPPLY
108	Y	SENSOR GROUND
109	G	PNP SIGNAL
110	R	ENGINE SPEED OUTPUT SIGNAL
112	V	SENSOR GROUND
113	P	CAN COMMUNICATION LINE
114	L	CAN COMMUNICATION LINE
117	V	DATA LINK CONNECTOR
121	LG	EVAP CANISTER VENT CONTROL VALVE
122	P	STOP LAMP SWITCH
123	B	ECM GROUND
124	B	ECM GROUND
125	R	POWER SUPPLY FOR ECM
126	BR	ASCD/ICC BRAKE SWITCH
127	B	ECM GROUND
128	B	ECM GROUND

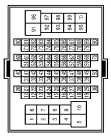
Connector No.	M116
Connector Name	WIRE TO WIRE
Connector Type	TK36MW-NS10

H.S.

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

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

H.S.



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

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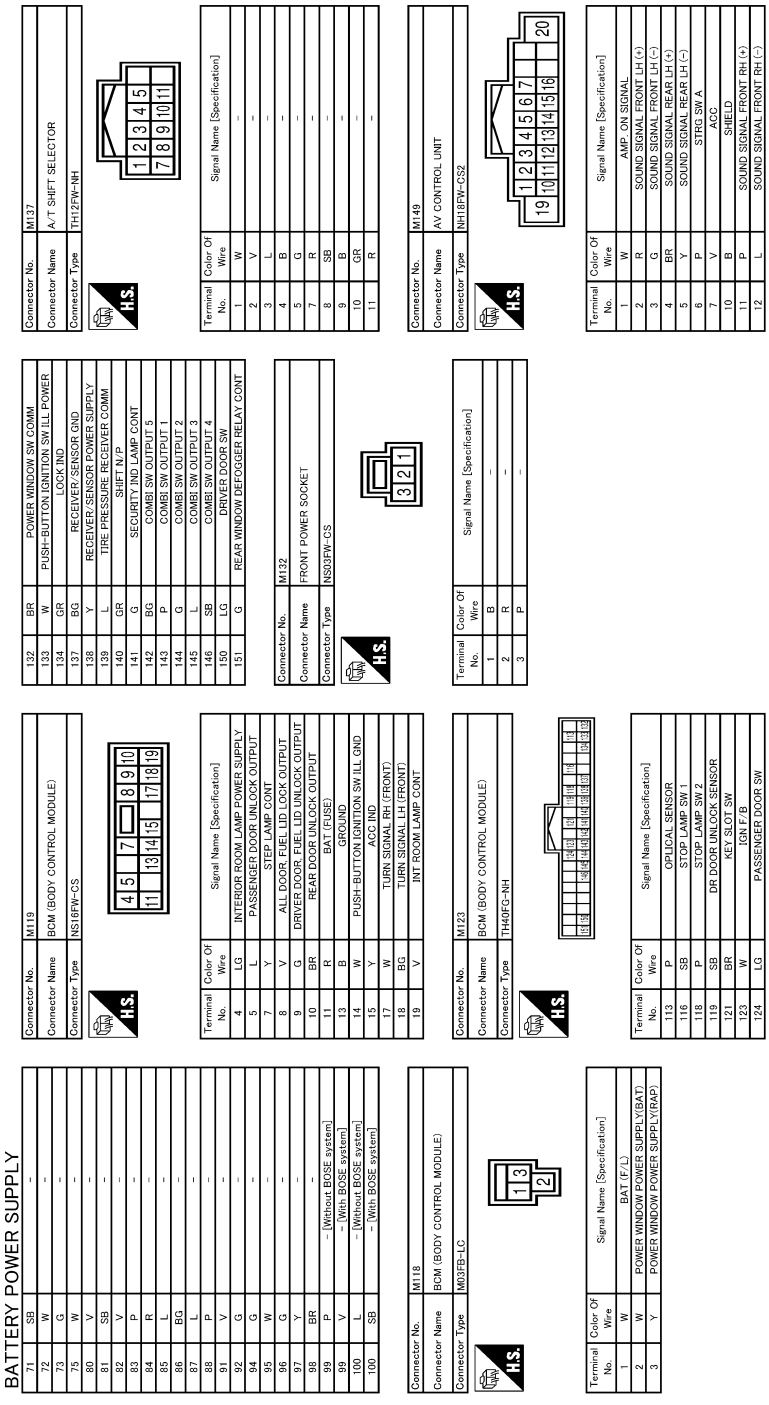

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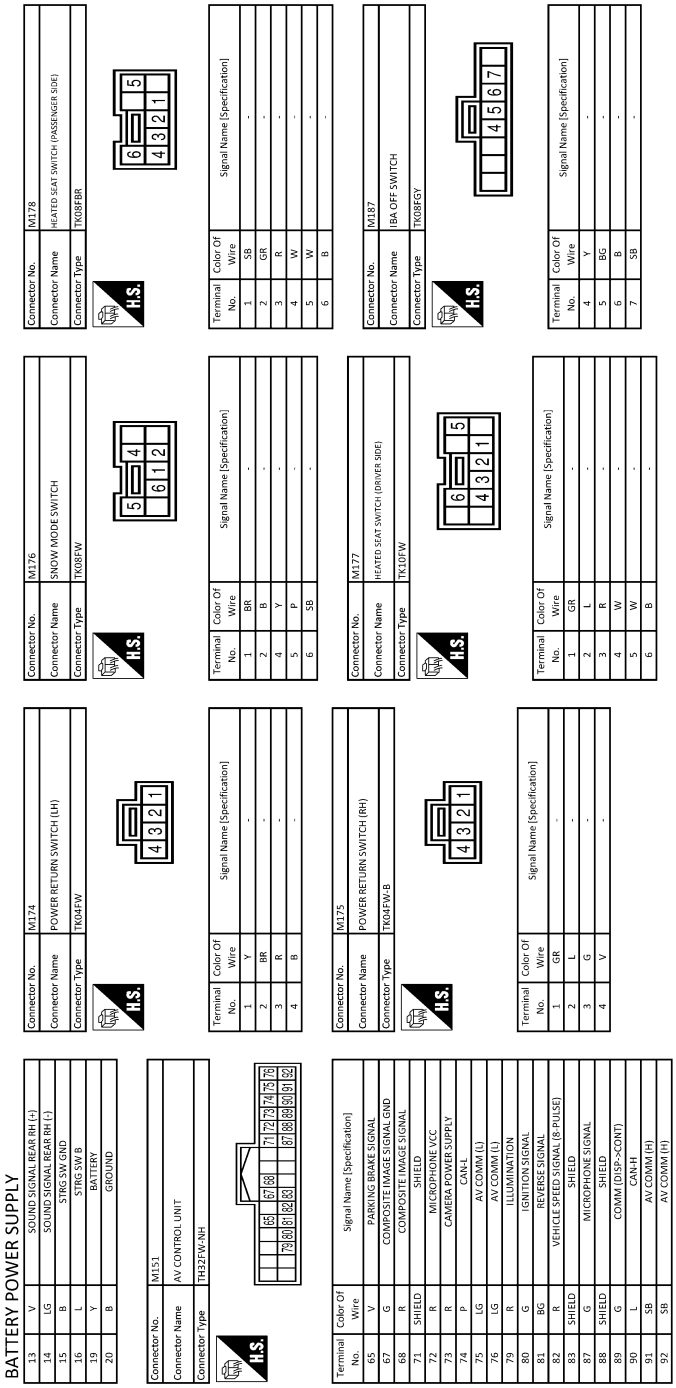

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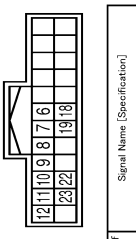
BATTERY POWER SUPPLY

Connector No.	M195
Connector Name	DISPLAY UNIT
Connector Type	TH24FW-NH



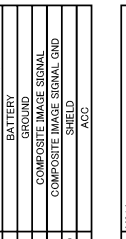
Terminal No.	Color Of Wire	Signal Name [Specification]
6	SHIELD	SHIELD
7	SHIELD	CAMERA IMAGE SIGNAL GND
8	W	CAMERA IMAGE SIGNAL
9	G	COMM (DISP->CONT)
10	R	COMM (CONT->DISP)
11	Y	BATTERY
12	B	GROUND
18	R	COMPOSITE IMAGE SIGNAL
19	G	COMPOSITE IMAGE SIGNAL GND
22	SHIELD	SHIELD
23	V	ACC

Connector No.	M214
Connector Name	AV CONTROL UNIT
Connector Type	NH18FW-CS2

Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	SOUND SIGNAL FRONT LH (+)
3	R	SOUND SIGNAL FRONT LH (-)
4	LG	SOUND SIGNAL REAR LH (+)
5	L	SOUND SIGNAL REAR LH (-)
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION SIGNAL
11	L	SOUND SIGNAL FRONT RH (+)
12	W	SOUND SIGNAL FRONT RH (-)

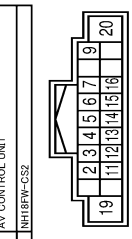
13	L	SOUND SIGNAL REAR RH (+)
14	P	SOUND SIGNAL REAR RH (-)
15	B	STRG SW GND
16	L	STRG SW B
19	Y	BATTERY
20	B	GROUND

Connector No.	M353
Connector Name	JOINT CONNECTOR-M02
Connector Type	SGA28FDGY-J



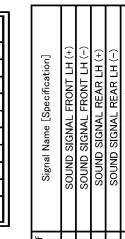
Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	– [Without BOSE system]
2	V	– [With BOSE system]
3	V	-
4	BG	-
5	G	-
6	R	-
7	V	-
8	BG	-
9	G	-
10	R	-
11	V	-
13	W	-
14	R	-
17	W	-
19	V	-
21	W	-
22	R	-
23	V	-
26	R	-
27	G	-

Connector No.	M358
Connector Name	JOINT CONNECTOR-M14
Connector Type	SGA28FSB-J



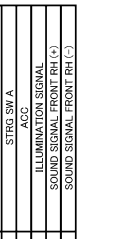
Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	– [Without BOSE system]
1	V	– [With BOSE system]
2	LG	– [With BOSE system]
2	R	– [Without BOSE system]
3	B	-
4	B	-
5	BR	– [Without BOSE system]
5	V	– [With BOSE system]
6	LG	– [With BOSE system]
6	R	– [Without BOSE system]
7	B	-
8	B	-
9	L	-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

Connector No.	M359
Connector Name	JOINT CONNECTOR-M03
Connector Type	SGA28FDGY-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	R	-
3	SHIELD	-
4	BG	-
7	SHIELD	-
8	BG	-
9	V	-
10	P	-
11	B	-
13	V	-
15	B	-
18	L	-
19	B	-
22	R	-
23	B	-
24	BG	-
25	V	-
26	L	-
28	BR	-

Connector No.	R3
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH



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BATTERY POWER SUPPLY

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

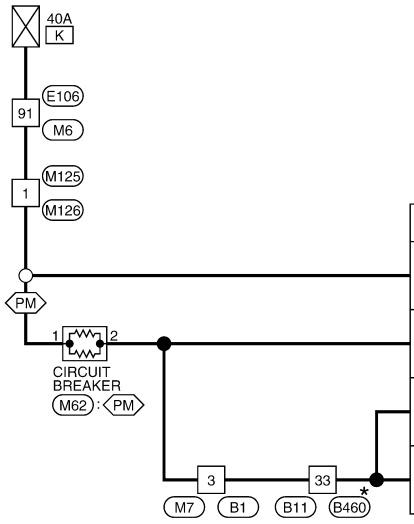
JRMWI3818GB

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

INFOID:0000000012168979

BATTERY POWER SUPPLY FUSIBLE LINK No. K

PM : With automatic drive positioner



Connector No.	Terminal No.	Connect to
M118	1	BCM (BODY CONTROL MODULE)
M79	25	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
B452 *	33	DRIVER SEAT CONTROL UNIT
B457 *	33	LUMBAR SUPPORT SWITCH

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

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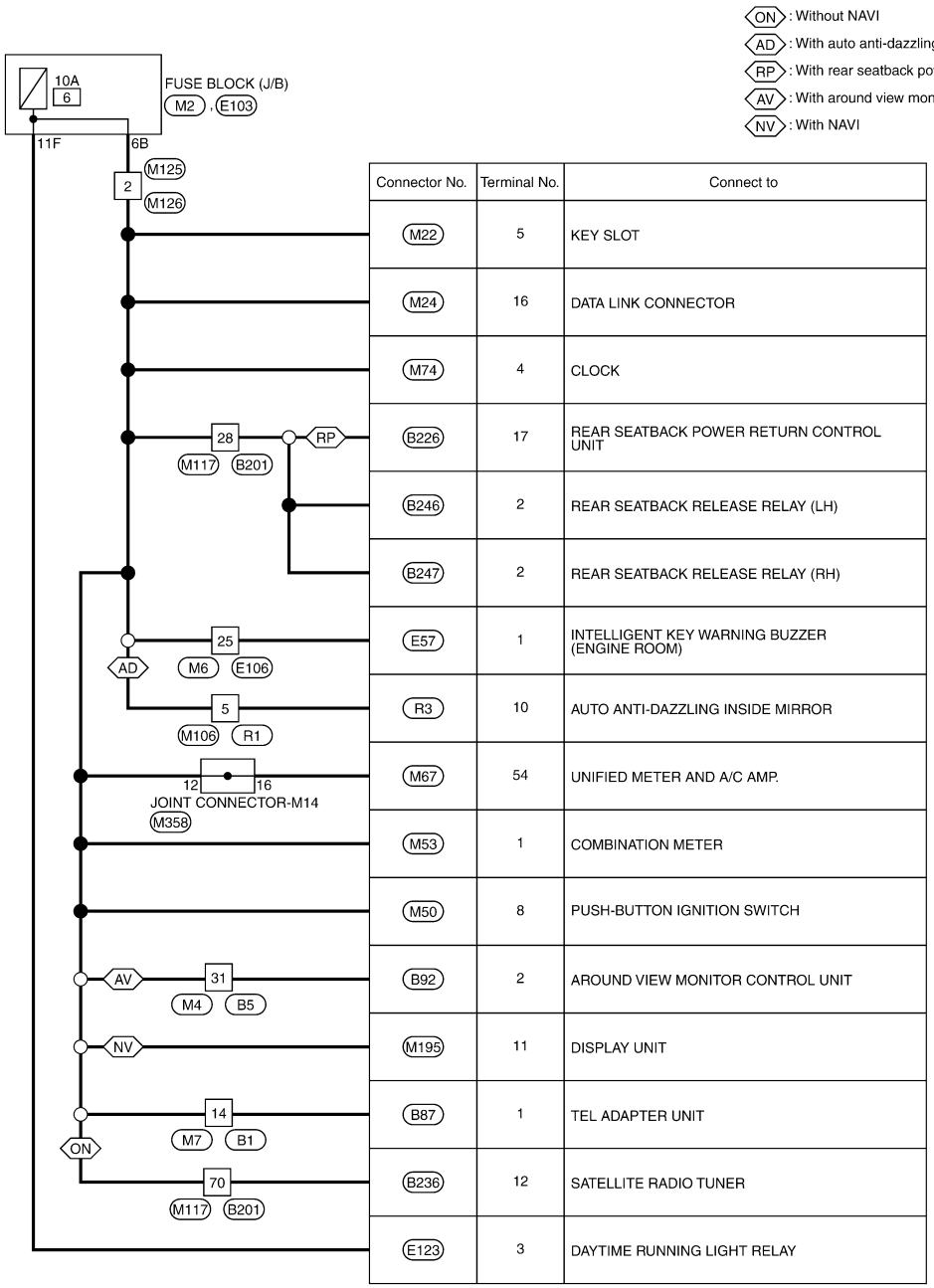
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 6 -

INFOID:0000000012168980

BATTERY POWER SUPPLY FUSE No. 6



Connector No.	Terminal No.	Connect to
M22	5	KEY SLOT
M24	16	DATA LINK CONNECTOR
M74	4	CLOCK
B226	17	REAR SEATBACK POWER RETURN CONTROL UNIT
B246	2	REAR SEATBACK RELEASE RELAY (LH)
B247	2	REAR SEATBACK RELEASE RELAY (RH)
E57	1	INTELLIGENT KEY WARNING BUZZER (ENGINE ROOM)
R3	10	AUTO ANTI-DAZZLING INSIDE MIRROR
M67	54	UNIFIED METER AND A/C AMP.
M53	1	COMBINATION METER
M50	8	PUSH-BUTTON IGNITION SWITCH
B92	2	AROUND VIEW MONITOR CONTROL UNIT
M195	11	DISPLAY UNIT
B87	1	TEL ADAPTER UNIT
B236	12	SATELLITE RADIO TUNER
E123	3	DAYTIME RUNNING LIGHT RELAY

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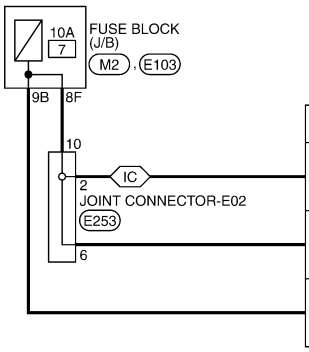
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 7 -

INFOID:0000000012168981

BATTERY POWER SUPPLY FUSE No. 7

IC : With ICC



Connector No.	Terminal No.	Connect to
E50	7	ICC BRAKE HOLD RELAY
E110	1	STOP LAMP SWITCH
M123	116	BCM (BODY CONTROL MODULE)

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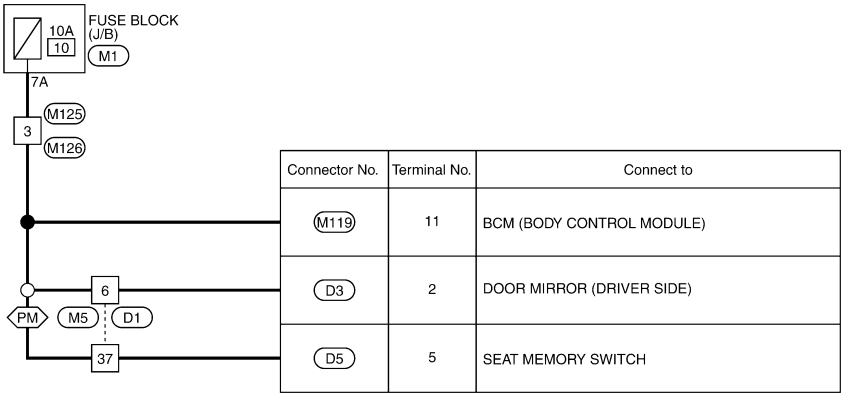
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 10 -

INFOID:0000000012168982

BATTERY POWER SUPPLY FUSE No. 10

PM : With automatic drive positioner



Connector No.	Terminal No.	Connect to
M119	11	BCM (BODY CONTROL MODULE)
D3	2	DOOR MIRROR (DRIVER SIDE)
D5	5	SEAT MEMORY SWITCH

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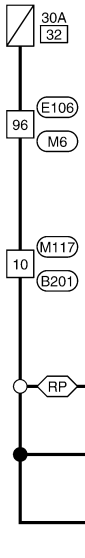
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 32 -

INFOID:0000000012168983

BATTERY POWER SUPPLY FUSE No. 32

RP : With rear seatback power return system



Connector No.	Terminal No.	Connect to
B227	16	REAR SEATBACK POWER RETURN CONTROL UNIT
B246	5	REAR SEATBACK RELEASE RELAY (LH)
B247	5	REAR SEATBACK RELEASE RELAY (RH)

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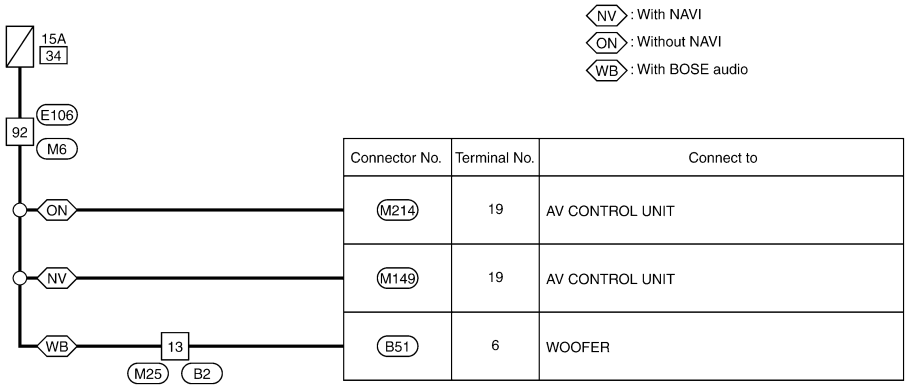
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 34 -

INFOID:0000000012168984

BATTERY POWER SUPPLY FUSE No. 34



Connector No.	Terminal No.	Connect to
M214	19	AV CONTROL UNIT
M149	19	AV CONTROL UNIT
B51	6	WOOFER

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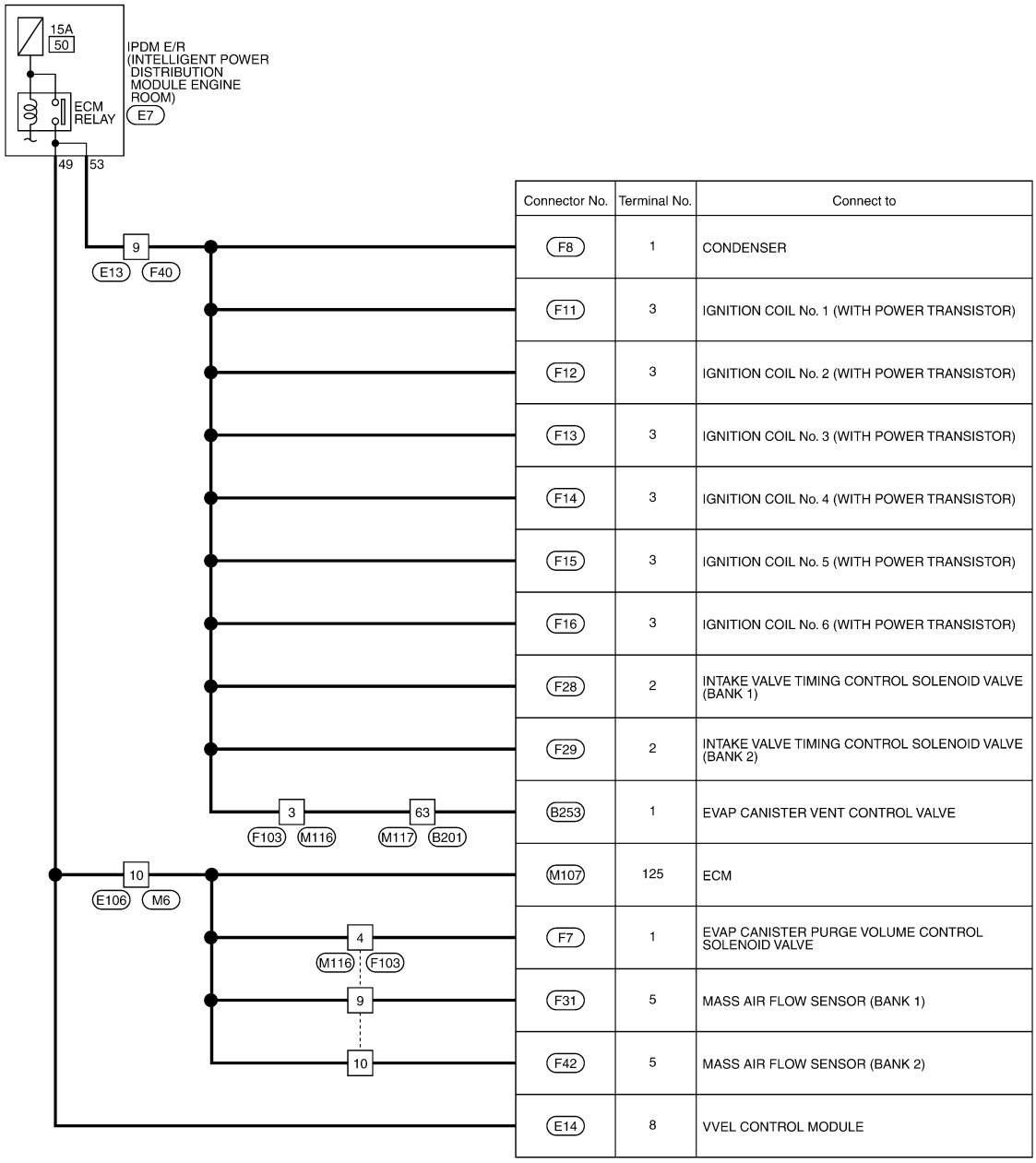
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 50 -

INFOID:0000000012168985

BATTERY POWER SUPPLY FUSE No. 50



Connector No.	Terminal No.	Connect to
F8	1	CONDENSER
F11	3	IGNITION COIL No. 1 (WITH POWER TRANSISTOR)
F12	3	IGNITION COIL No. 2 (WITH POWER TRANSISTOR)
F13	3	IGNITION COIL No. 3 (WITH POWER TRANSISTOR)
F14	3	IGNITION COIL No. 4 (WITH POWER TRANSISTOR)
F15	3	IGNITION COIL No. 5 (WITH POWER TRANSISTOR)
F16	3	IGNITION COIL No. 6 (WITH POWER TRANSISTOR)
F28	2	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 1)
F29	2	INTAKE VALVE TIMING CONTROL SOLENOID VALVE (BANK 2)
B253	1	EVAP CANISTER VENT CONTROL VALVE
M107	125	ECM
F7	1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F31	5	MASS AIR FLOW SENSOR (BANK 1)
F42	5	MASS AIR FLOW SENSOR (BANK 2)
E14	8	VVEL CONTROL MODULE

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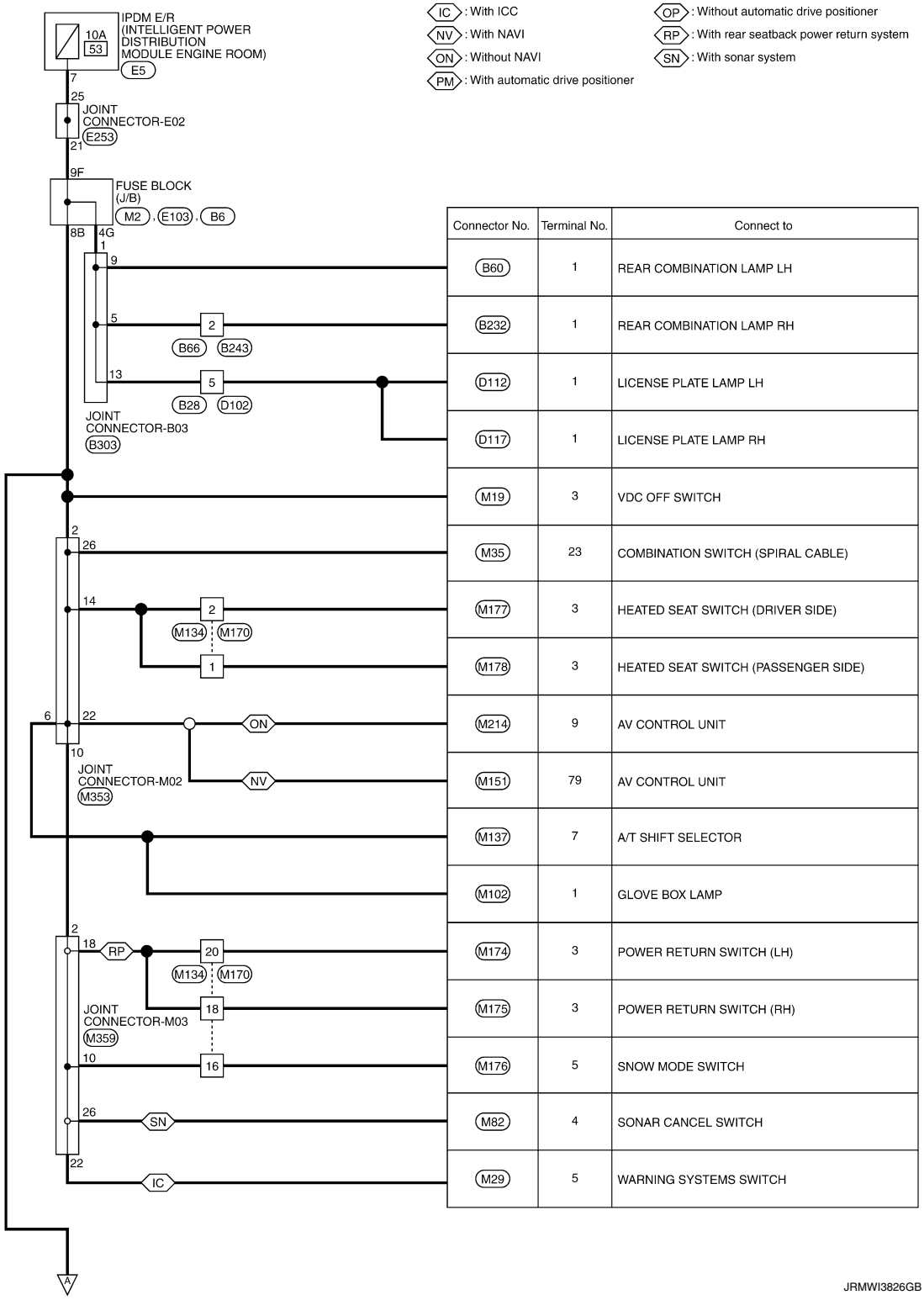
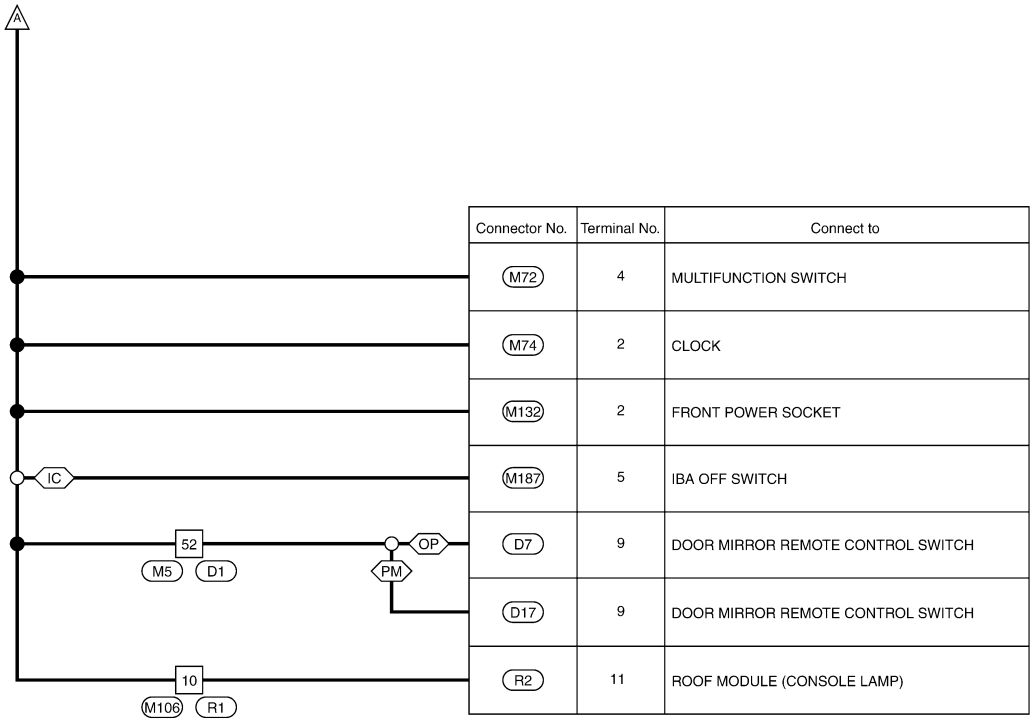
Wiring Diagram - BATTERY POWER SUPPLY FUSE No. 53 -

INFOID:0000000012168986

BATTERY POWER SUPPLY FUSE No. 53



Connector No.	Terminal No.	Connect to
B60	1	REAR COMBINATION LAMP LH
B232	1	REAR COMBINATION LAMP RH
D112	1	LICENSE PLATE LAMP LH
D117	1	LICENSE PLATE LAMP RH
M19	3	VDC OFF SWITCH
M35	23	COMBINATION SWITCH (SPIRAL CABLE)
M177	3	HEATED SEAT SWITCH (DRIVER SIDE)
M178	3	HEATED SEAT SWITCH (PASSENGER SIDE)
M214	9	AV CONTROL UNIT
M151	79	AV CONTROL UNIT
M137	7	A/T SHIFT SELECTOR
M102	1	GLOVE BOX LAMP
M174	3	POWER RETURN SWITCH (LH)
M175	3	POWER RETURN SWITCH (RH)
M176	5	SNOW MODE SWITCH
M82	4	SONAR CANCEL SWITCH
M29	5	WARNING SYSTEMS SWITCH



Connector No.	Terminal No.	Connect to
M72	4	MULTIFUNCTION SWITCH
M74	2	CLOCK
M132	2	FRONT POWER SOCKET
M187	5	IBA OFF SWITCH
D7	9	DOOR MIRROR REMOTE CONTROL SWITCH
D17	9	DOOR MIRROR REMOTE CONTROL SWITCH
R2	11	ROOF MODULE (CONSOLE LAMP)

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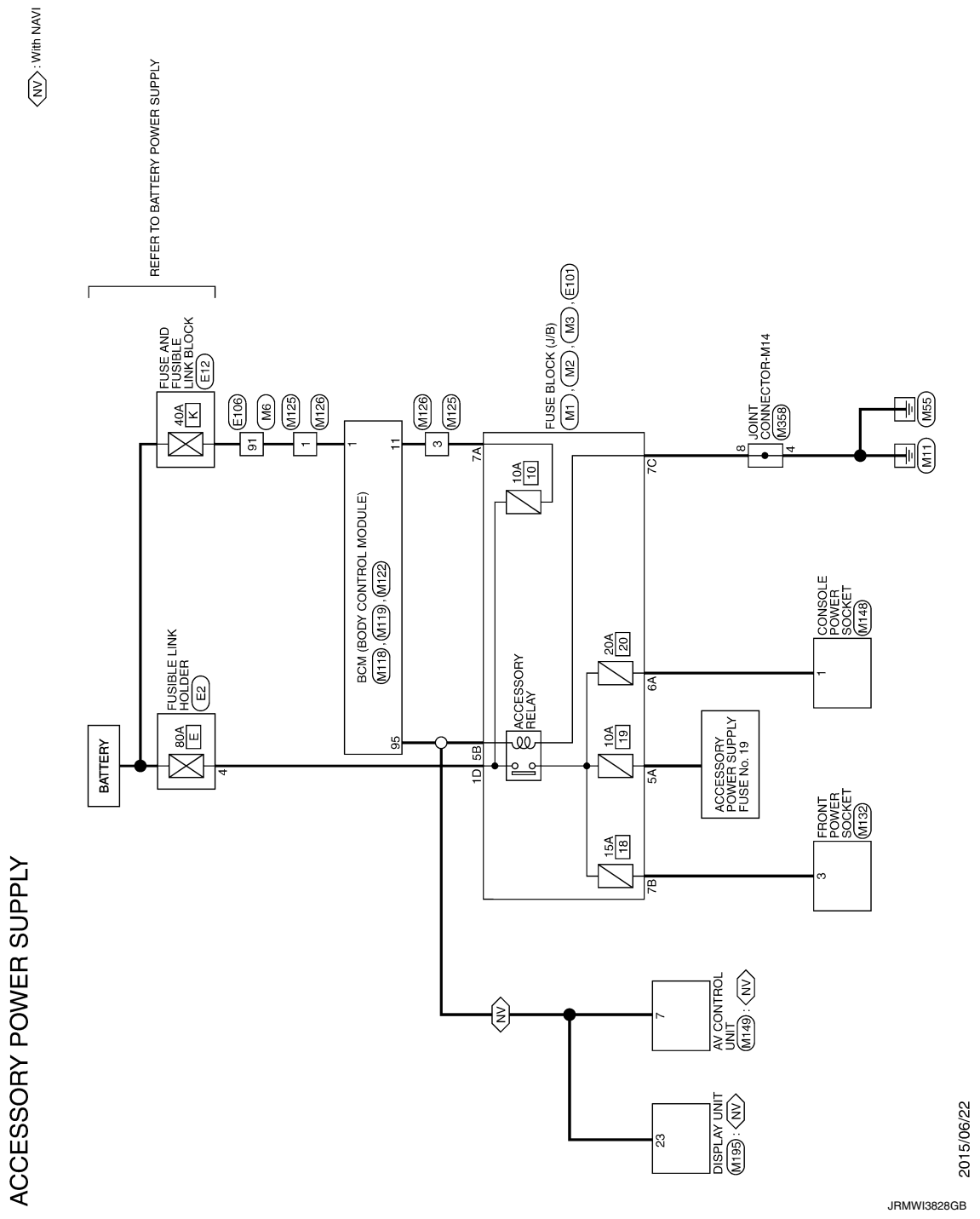
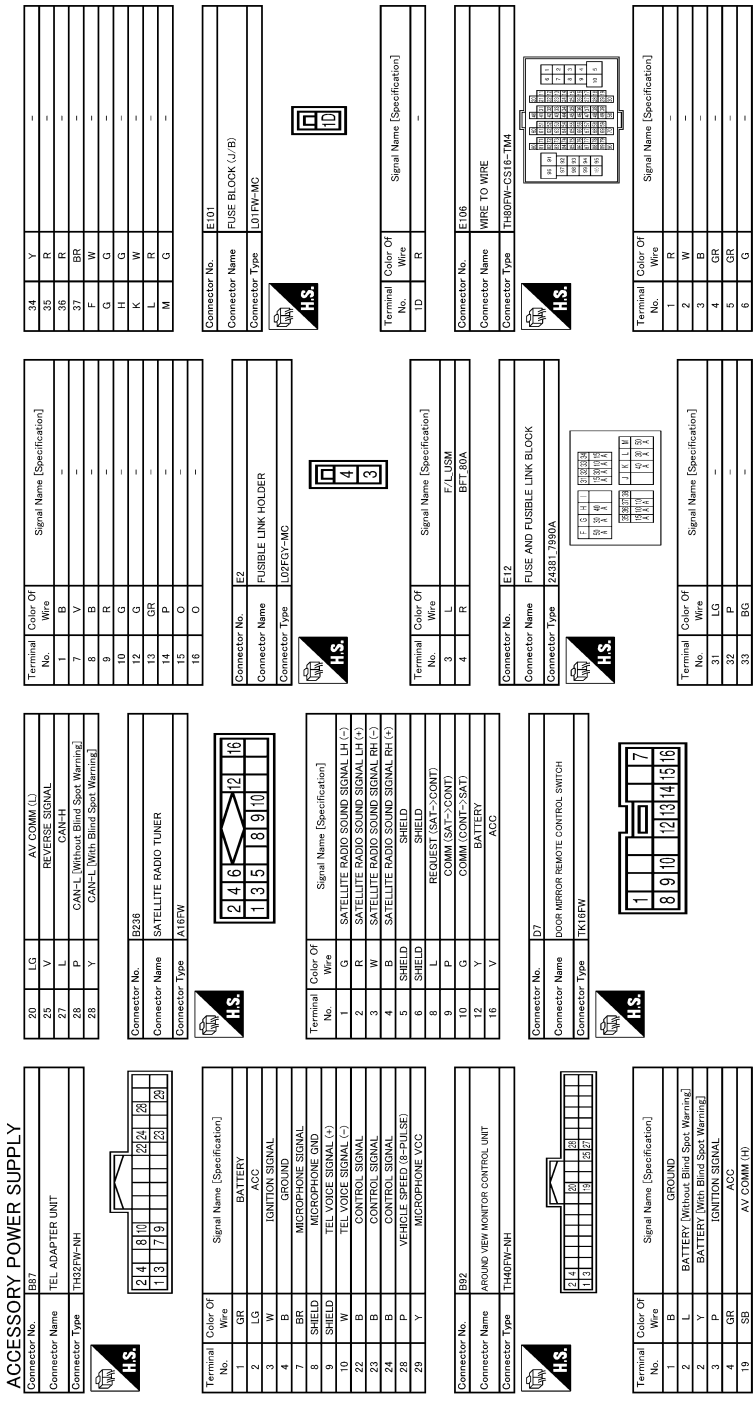
JRMWI3827GB

Wiring Diagram - ACCESSORY POWER SUPPLY -

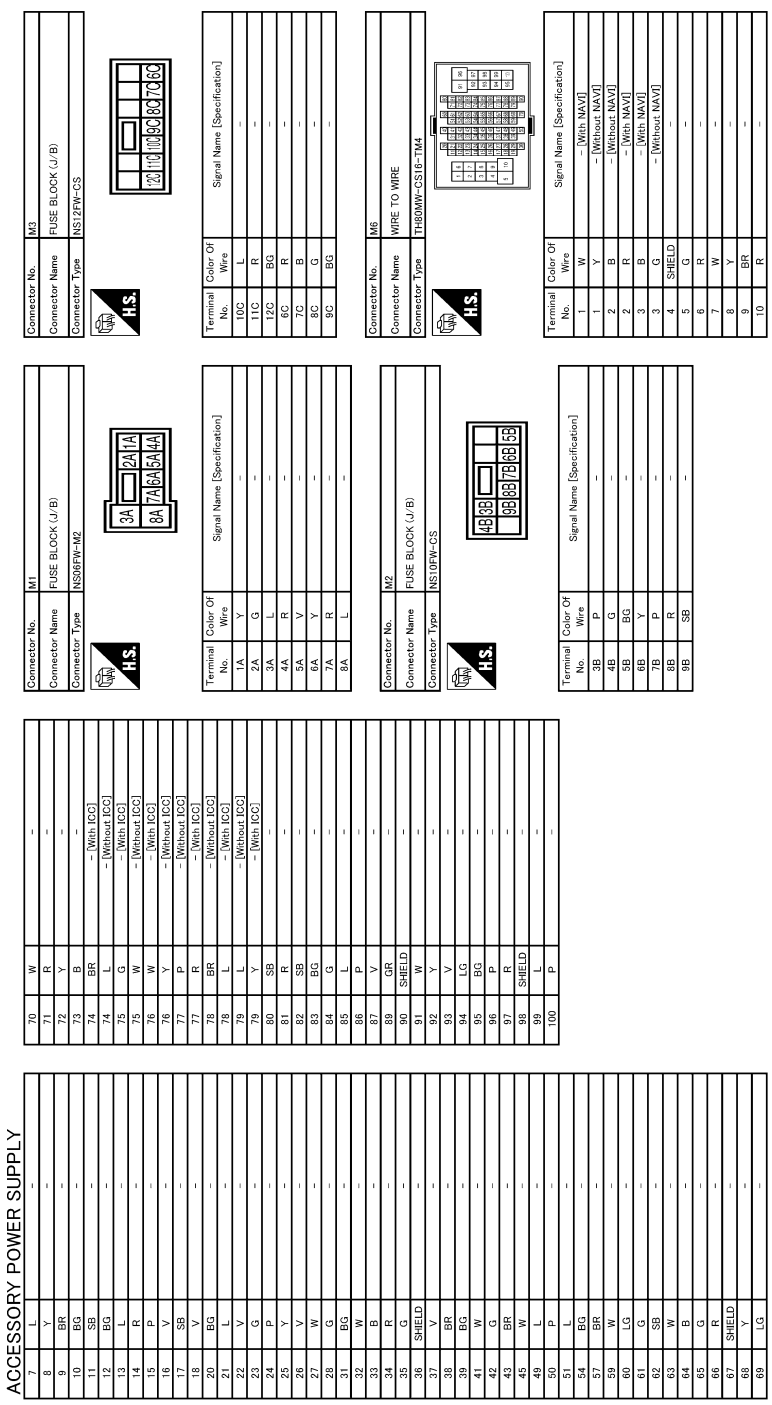
INFOID:0000000012168987



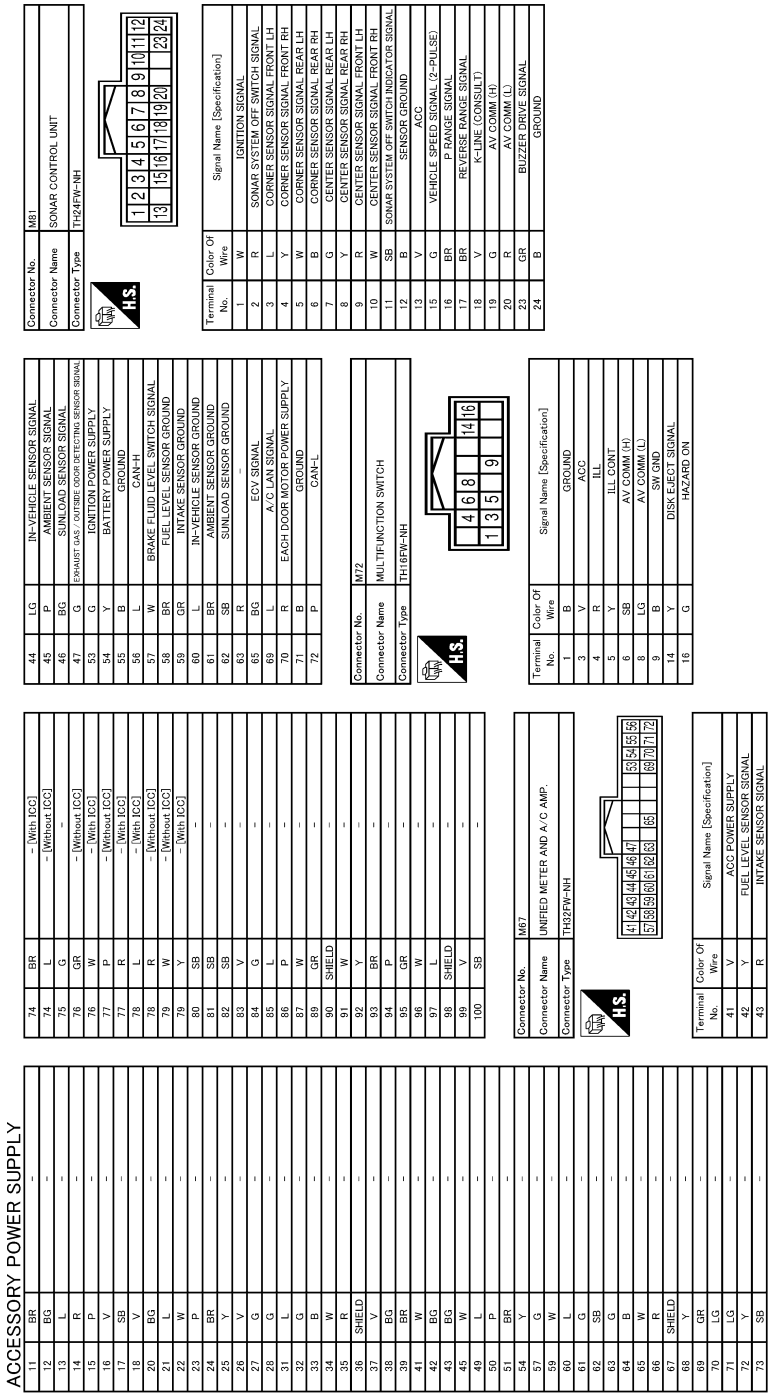
ACCESSORY POWER SUPPLY



JRMWI3829GB



JRMWI3830GB



JRMWI3831GB

ACCESSORY POWER SUPPLY

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

H.S.

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

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

H.S.

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

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

H.S.

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

Connector No.	M125
Connector Name	WIRE TO WIRE
Connector Type	M03FW-LC

H.S.

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

Connector No.	M126
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC

H.S.

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

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

H.S.

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

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

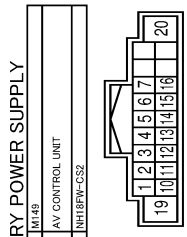
H.S.

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

JRMWI3832GB

ACCESSORY POWER SUPPLY

Connector No.	M149
Connector Name	AV CONTROL UNIT
Connector Type	NH18FW-CS2

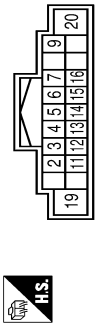


Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	AMP. ON SIGNAL
2	R	SOUND SIGNAL FRONT LH (+)
3	G	SOUND SIGNAL FRONT LH (–)
4	BR	SOUND SIGNAL REAR LH (+)
5	Y	SOUND SIGNAL REAR LH (–)
6	P	STRG SW A
7	V	ACC
10	B	SHIELD
11	P	SOUND SIGNAL FRONT RH (+)
12	L	SOUND SIGNAL FRONT RH (–)
13	V	SOUND SIGNAL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

Connector No.	M195
Connector Name	DISPLAY UNIT
Connector Type	TH24FW-NH

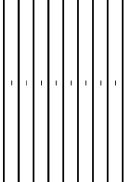
Terminal No.	Color Of Wire	Signal Name [Specification]
6	SHIELD	SHIELD
7	SHIELD	CAMERA IMAGE SIGNAL GND
8	W	CAMERA IMAGE SIGNAL
9	G	COMM (DISP->CONT)
10	R	COMM (CONT->DISP)
11	Y	BATTERY
12	B	GROUND
18	R	COMPOSITE IMAGE SIGNAL
19	G	COMPOSITE IMAGE SIGNAL GND
22	SHIELD	SHIELD
23	V	ACC

Connector No.	M214
Connector Name	AV CONTROL UNIT
Connector Type	NH18FW-CS2



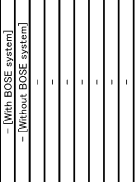
Terminal No.	Color Of Wire	Signal Name [Specification]
2	BR	SOUND SIGNAL FRONT LH (+)
3	R	SOUND SIGNAL FRONT LH (–)
4	LG	SOUND SIGNAL REAR LH (+)
5	L	SOUND SIGNAL REAR LH (–)
6	P	STRG SW A
7	V	ACC
9	R	ILLUMINATION SIGNAL
11	L	SOUND SIGNAL FRONT RH (+)
12	W	SOUND SIGNAL FRONT RH (–)
13	L	SOUND SIGNAL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

Connector No.	M353
Connector Name	JOINT CONNECTOR-M02
Connector Type	SGA28FDGY-J



Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	–
2	R	– [Without BOSE system]
2	V	– [With BOSE system]
3	V	–
4	BG	–
5	G	–
6	R	–
7	V	–
8	BG	–
9	G	–
10	R	–
11	V	–
13	W	–
14	R	–
17	W	–
19	V	–
21	W	–
22	R	–
23	V	–
26	R	–
27	G	–

Connector No.	M358
Connector Name	JOINT CONNECTOR-M14
Connector Type	SGA28FSB-J

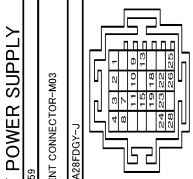


Terminal No.	Color Of Wire	Signal Name [Specification]
1	BR	– [Without BOSE system]
1	V	– [With BOSE system]
2	LG	– [With BOSE system]
2	R	– [Without BOSE system]
3	B	–
4	B	–
5	BR	– [Without BOSE system]
5	V	– [With BOSE system]
6	LG	– [With BOSE system]
6	R	– [Without BOSE system]
7	B	–
8	B	–
9	L	–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

JRMWI3833GB

ACCESSORY POWER SUPPLY

Connector No.	M359
Connector Name	JOINT CONNECTOR-M03
Connector Type	SGA28FDGY-J



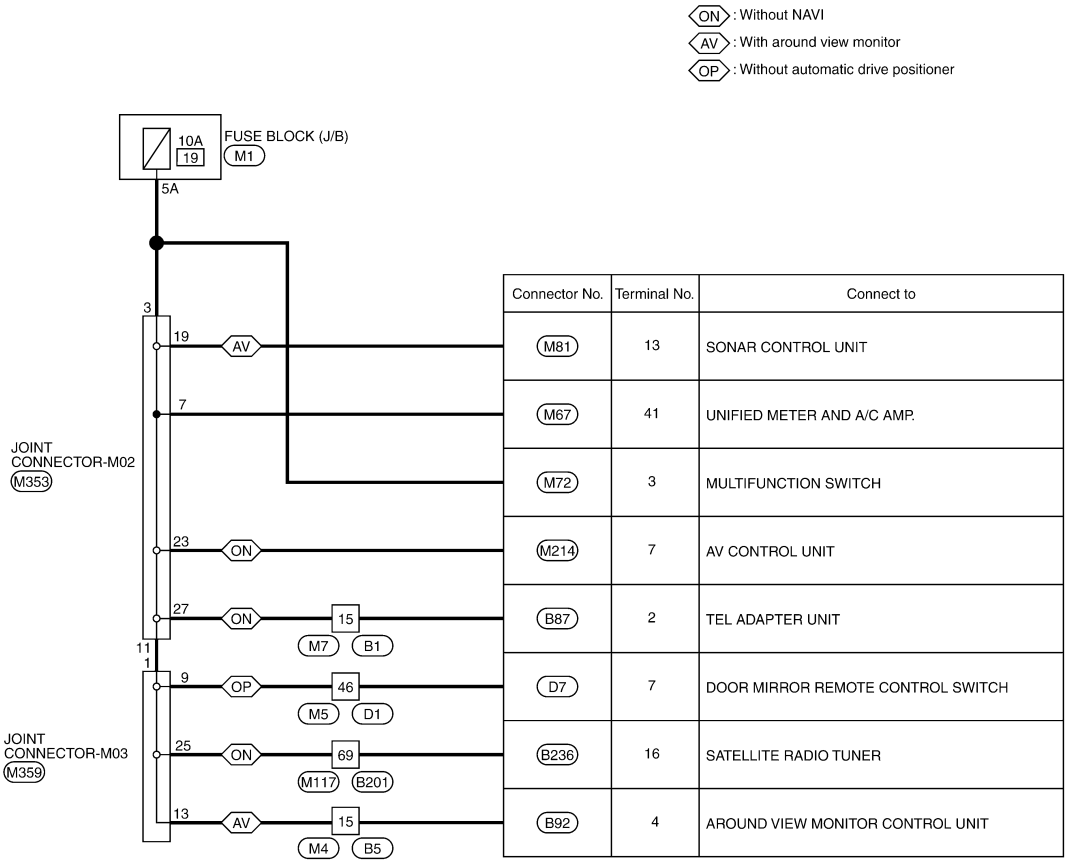
Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	-
2	R	-
3	SHIELD	-
4	BG	-
7	SHIELD	-
8	BG	-
9	V	-
10	P	-
11	B	-
13	V	-
15	B	-
18	L	-
19	B	-
22	R	-
23	B	-
24	BG	-
25	V	-
26	L	-
28	BR	-

JRMWI3834GB

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No. 19 -

INFOID:0000000012168988

ACCESSORY POWER SUPPLY FUSE No. 19



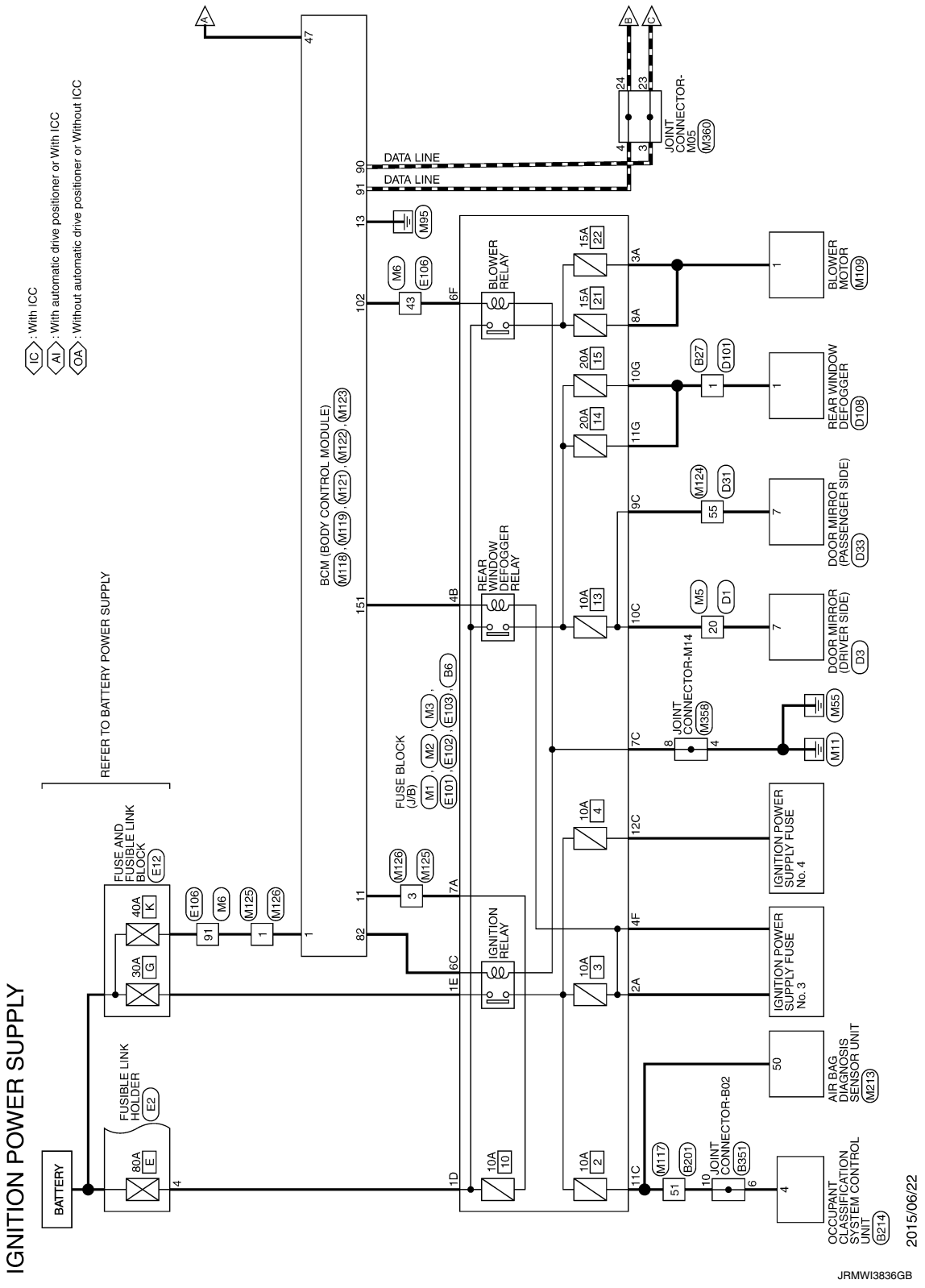
Connector No.	Terminal No.	Connect to
M81	13	SONAR CONTROL UNIT
M67	41	UNIFIED METER AND A/C AMP.
M72	3	MULTIFUNCTION SWITCH
M214	7	AV CONTROL UNIT
B87	2	TEL ADAPTER UNIT
D7	7	DOOR MIRROR REMOTE CONTROL SWITCH
B236	16	SATELLITE RADIO TUNER
B92	4	AROUND VIEW MONITOR CONTROL UNIT

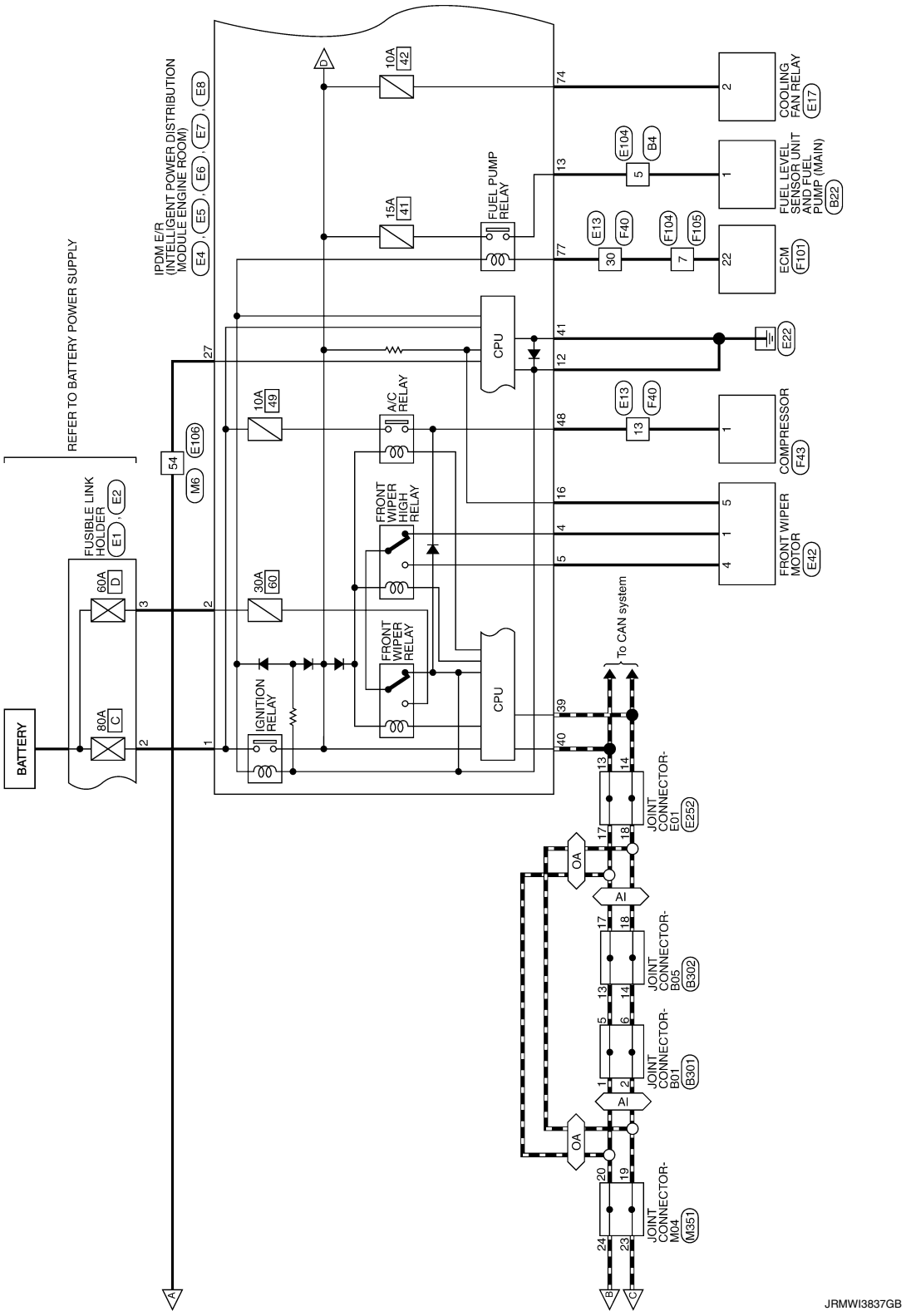
2015/06/22

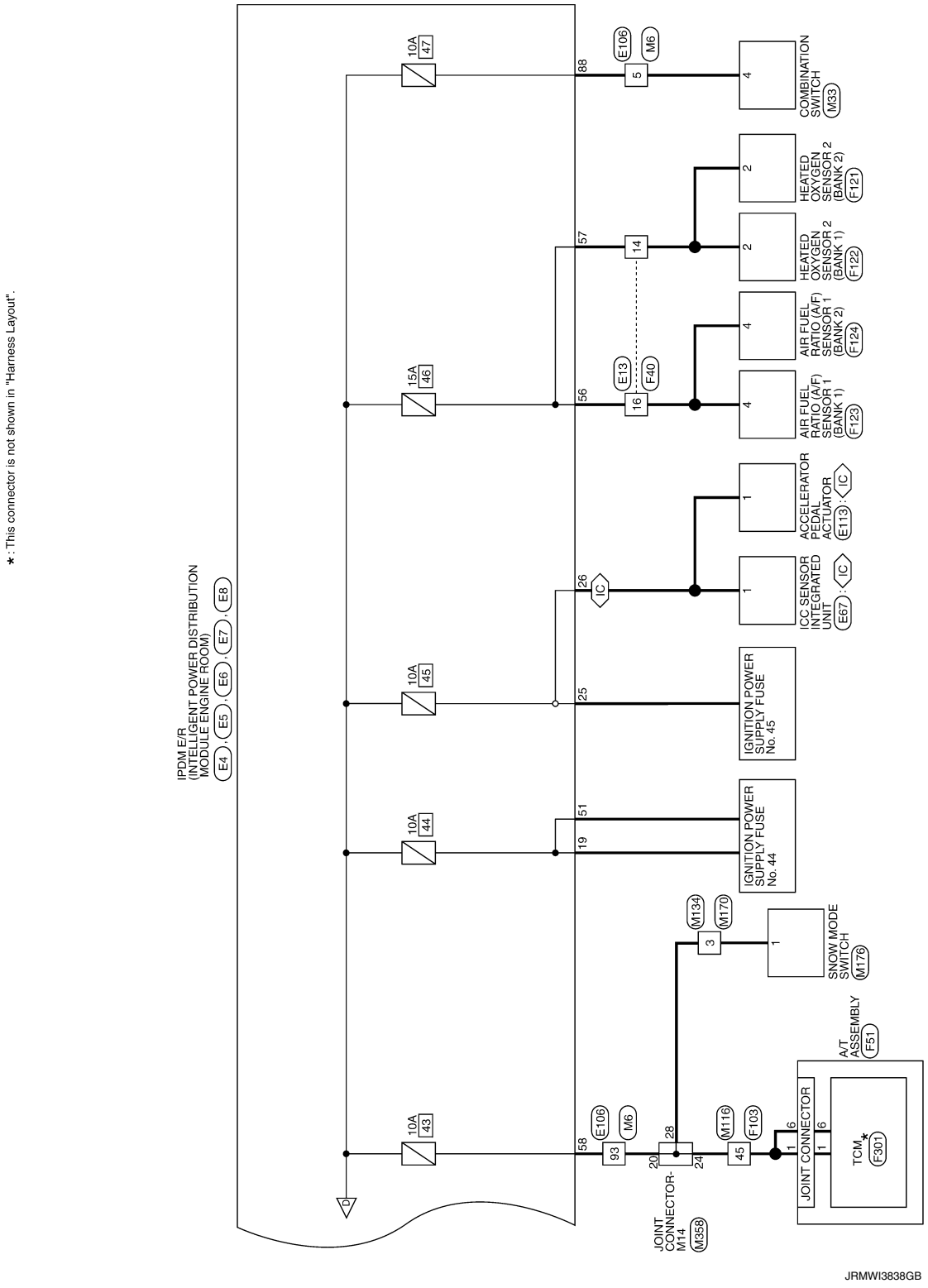
JRMWI3835GB

Wiring Diagram - IGNITION POWER SUPPLY -

INFOID:0000000012168989




REFER TO BATTERY POWER SUPPLY
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E4, E5, E6, E7, E8
FUSIBLE LINK HOLDER
E1, E2
BATTERY
60A D
80A C
30A 60
10A 49
10A 42
15A 41
IGNITION RELAY
A/C RELAY
FUEL PUMP RELAY
FRONT WIPER HIGH RELAY
FRONT WIPER RELAY
CPU
54 M6 E106
27
1
2
3
74
77
48
16
4
5
39
40
41
12
13
COOLING FAN RELAY E17
FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN) B22
E104 B4
ECM F101
E13 F40
F104 F105
COMPRESSOR F43
FRONT WIPER MOTOR E42
E22
To CAN system
JOINT CONNECTOR-E01 E252
JOINT CONNECTOR-B05 B302
JOINT CONNECTOR-B01 B301
JOINT CONNECTOR-M04 M351
OA
AI
JRMWI3837GB


★: This connector is not shown in "Harness Layout".
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E4, E5, E6, E7, E8
10A 47
15A 46
10A 45
10A 44
10A 43
88
57
56
26
25
51
19
58
E106
5
M6
COMBINATION SWITCH
M33
HEATED OXYGEN SENSOR 2 (BANK 2)
F121
HEATED OXYGEN SENSOR 2 (BANK 1)
F122
AIR FUEL RATIO (A/F) SENSOR 1 (BANK 2)
F124
AIR FUEL RATIO (A/F) SENSOR 1 (BANK 1)
F123
E13
F40
14
16
ACCELERATOR PEDAL ACTUATOR
E113
IC
ICC SENSOR INTEGRATED UNIT
E67
IGNITION POWER SUPPLY FUSE No. 45
IGNITION POWER SUPPLY FUSE No. 44
M134
M170
3
1
SNOW MODE SWITCH
M176
A/T ASSEMBLY
F51
JOINT CONNECTOR
TCM★
F301
93
28
20
24
M116
F103
45
6
1
JOINT CONNECTOR-M14
M358
JRMWI3838GB

IGNITION POWER SUPPLY

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

H.S.

5	4		3	2	1
12	11	10	9	8	7	6

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	–
2	G	–
3	SHIELD	–
5	P	–
7	L	–
8	R	–
9	BR	–
10	BG	–
11	LG	–
12	GR	–

Connector No.	B6
Connector Name	FUSE BLOCK (J/B)
Connector Type	NS12FBR-CS

H.S.

5G	4G				
1G	1G	10G	11G		

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

Connector No.	B22
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)
Connector Type	E05FGY-RS

H.S.

1	2	3	4	5

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

Connector No.	B27
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

H.S.

1	2	3
4	5	6

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

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

H.S.

8	7	6			
16	15	14			

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

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

H.S.

2	4	8	10			22	24	28	
1	3	7	9				23		29

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

Connector No.	B105
Connector Name	SIDE RADAR LH
Connector Type	AAC06FB-WP-SP

H.S.

2	3	4	5	6

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

Connector No.	B107
Connector Name	SIDE RADAR RH
Connector Type	AAC06FB-WP-SP

H.S.

2	3	4	5	6

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

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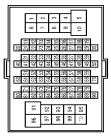
IGNITION POWER SUPPLY

Connector No.	B201
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	–
2	R	–
3	GR	–
4	BG	–
7	LG	–
10	W	–
15	SB	–
16	V	–
17	BR	–
18	GR	–
19	P	–
26	BR	–
27	L	–
28	Y	–
29	Y	–
30	GR	–
31	R	–
32	BR	–
33	G	–
51	R	–
55	G	–
56	R	–
57	W	–
58	B	–
59	SHIELD	–
60	LG	–
61	W	–
62	BR	–
63	P	–
64	L	–
65	G	–
66	P	–
67	L	–
68	SHIELD	–
69	V	–
70	Y	–
71	SB	–
72	W	–
73	BR	–
75	Y	–
80	V	–
81	SB	–
82	LG	–
83	P	–
84	R	–
85	L	–
86	BG	–
87	L	–
88	P	–
91	V	–
92	R	–
94	R	–
95	SB	–
96	G	–
97	G	–
98	R	–
99	P	–
100	L	–

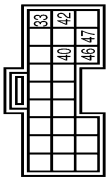
Connector No.	B214
Connector Name	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
Connector Type	TH08FW-NH

H.S.

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

Connector No.	B249
Connector Name	BRAKE BOOSTER CONTROL UNIT
Connector Type	TK24FGY

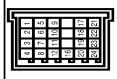
H.S.



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

Connector No.	B301
Connector Name	JOINT CONNECTOR-B01
Connector Type	NH24FB-J

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	–
2	P	–
3	SB	–
4	LG	–
5	L	–
6	P	–
7	SB	–
8	LG	–
9	L	–
10	P	–
11	SB	–
12	LG	–
16	SB	–
17	R	–
18	Y	–

19	B	–
20	SB	–
21	R	–
22	Y	–
23	B	–
24	SB	–

Connector No.	B302
Connector Name	JOINT CONNECTOR-B05
Connector Type	NH24FGY-J

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
3	Y	–
4	L	–
7	Y	–
8	L	–
11	Y	–
12	L	–
13	L	–
14	P	–
15	Y	–
16	L	–
17	L	–
18	P	–
21	L	–
22	P	–
23	Y	–
24	L	–

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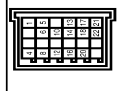
IGNITION POWER SUPPLY

Connector No.	B351
Connector Name	JOINT CONNECTOR-B02
Connector Type	NH24FGY-J

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	–
4	SHIELD	–
5	LG	–
6	R	–
8	SHIELD	–
10	R	–
12	SHIELD	–
13	GR	–
14	Y	–
16	B	–
17	P	–
18	LG	–
20	SHIELD	–
21	P	–
22	LG	–

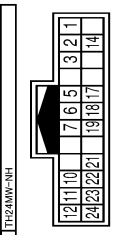
Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	B	–
3	V	–
4	W	–
5	L	–
6	O	–
7	GR	–
8	W	–
9	O	–
10	BR	–
11	P	–
12	LG	–
13	B	–
14	Y	–
15	W	–
16	SB	–
17	LG	–
18	SHIELD	–
19	P	–
20	W	–
21	O	–
22	P	–
23	BR	–
24	V	–
25	GR	–
26	Y	–
27	BR	–
28	V	–
29	LG	–
30	G	–
31	W	–
32	G	–
33	L	–
34	SB	–
35	R	–
36	LG	–
37	R	–
38	P	–
39	O	–
40	BR	–
41	L	–
42	GR	–
43	BR	– [With automatic drive positioner]
43	O	– [Without automatic drive positioner]
44	GR	– [Without automatic drive positioner]
44	W	– [With automatic drive positioner]
45	G	– [Without automatic drive positioner]
45	Y	– [With automatic drive positioner]
46	G	– [With automatic drive positioner]
46	V	– [Without automatic drive positioner]
47	R	–
48	G	–
49	GR	–
50	SHIELD	–
51	B	–
52	R	–
53	SB	–
54	O	–
55	Y	–

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH24MW-NH

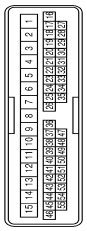
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	V	–
2	O	–
3	BR	CONT
5	P	COMP+
6	SB	ON
7	W	–
10	G	–
11	P	–
12	O	–
14	LG	–
17	SHIELD	COMP–
18	LG	GROUND
19	B	–
21	GR	–
22	BR	–
23	Y	–
24	V	–

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

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
7	R	–
8	BR	–
9	V	–
12	P	–
13	LG	–
14	B	–
15	W	–
16	BR	–
17	B	–
18	R	–
19	B	–
20	G	– [With around view monitor]
20	R	– [Without around view monitor]
21	BR	– [Without around view monitor]
21	SHIELD	– [With around view monitor]
22	V	–
23	P	–
24	W	–
25	SB	–
26	R	–
27	G	–
33	O	–
34	GR	–
35	G	–
36	R	–
37	G	–
43	Y	–
44	V	–
45	P	–
46	W	–
47	SHIELD	–
52	G	–
53	GR	–
54	O	–
55	L	–

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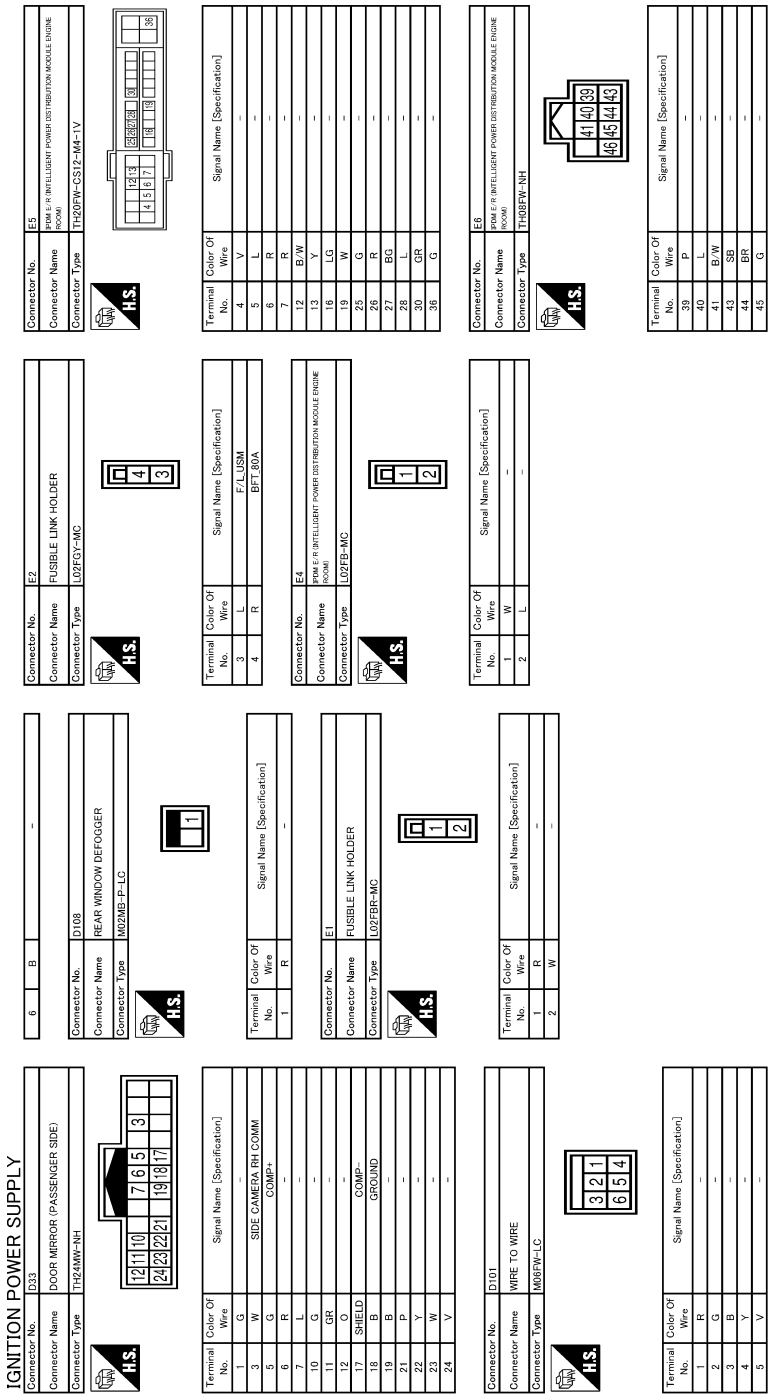
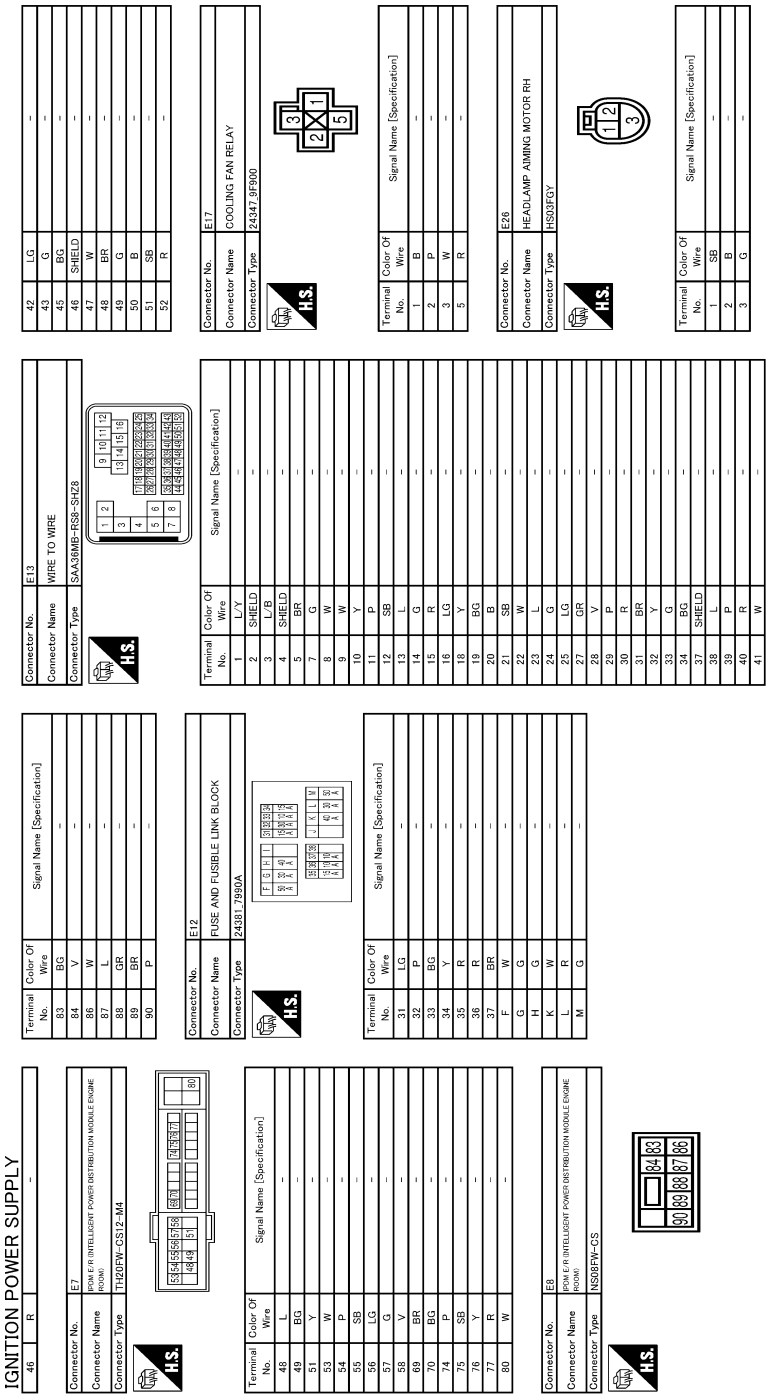


JRMWI3842GB

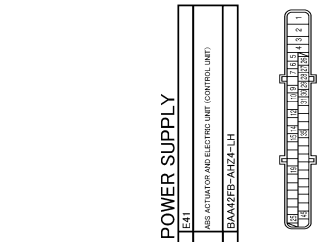


JRMWI3843GB

IGNITION POWER SUPPLY

Connector No.	E41
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA42FB-AHZ4-LH

H.S.



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

Connector No.	E42
Connector Name	FRONT WIPER MOTOR
Connector Type	HS05FGY

H.S.

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

Connector No.	E50
Connector Name	ICC BRAKE HOLD RELAY
Connector Type	M06FGY-R-US

H.S.

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

Connector No.	E56
Connector Name	HEADLAMP AIMING MOTOR LH
Connector Type	HS03FGY

H.S.

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

Connector No.	E67
Connector Name	ICC SENSOR INTEGRATED UNIT
Connector Type	RS06FB-PR

H.S.

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

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

H.S.

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

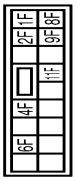
Connector No.	E102
Connector Name	FUSE BLOCK (J/B)
Connector Type	M02FB-LC

H.S.

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

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

H.S.



JRMWI3844GB

IGNITION POWER SUPPLY

Terminal No.	Color Of Wire	Signal Name [Specification]
11F	W	–
1F	SB	–
2F	W	–
4F	G	–
6F	BR	–
8F	L	–
9F	R	–

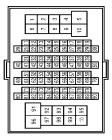
Connector No.	E104
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	–
2	G	–
3	SHIELD	–
5	Y	–
7	L	–
8	P	–
9	BR	–
10	BG	–
11	LG	–
12	GR	–

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

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	W	–
3	B	–
4	GR	–
5	G	–
6	L	–
7	Y	–
8	BR	–
9	BG	–
10	SB	–
11	BG	–
12	L	–
13	R	–
14	P	–
15	V	–
16	SB	–
17	Y	–
18	BG	–
20	L	–
21	V	–
22	G	–
23	P	–
24	Y	–
25	V	–
26	W	–
27	G	–
28	BG	–
31	W	–
32	B	–
33	R	–
34	G	–
35	SHIELD	–
36	V	–
37	BR	–
38	BG	–
39	W	–
41	G	–
42	BR	–
43	W	–
45	L	–
49	P	–
50	L	–
51	BG	–
54	BR	–
57	W	–
59	LG	–
60	G	–
61	SB	–
62	W	–
63	B	–
64	G	–
65	R	–
66	–	–
67	SHIELD	–
68	Y	–
69	LG	–
70	W	–
71	R	–
72	Y	–
73	B	–
74	BR	– [With ICC]
74	L	– [Without ICC]
75	G	– [With ICC]
75	W	– [Without ICC]
76	W	– [With ICC]
76	Y	– [Without ICC]
77	P	– [With ICC]
77	R	– [Without ICC]
78	BR	– [With ICC]
78	L	– [Without ICC]
79	L	– [With ICC]
79	Y	– [Without ICC]
80	SB	–
81	R	–
82	SB	–
83	BG	–
84	G	–
85	L	–
86	P	–
87	V	–
89	GR	–
90	SHIELD	–
91	W	–
92	Y	–
93	V	–
94	LG	–
95	BG	–
96	P	–
97	R	–
98	SHIELD	–
99	L	–
100	P	–

Connector No.	E109
Connector Name	ASCD BRAKE SWITCH
Connector Type	M02FBR-LC

H.S.

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

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

H.S.

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

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IGNITION POWER SUPPLY

Connector No.	E113
Connector Name	ACCELERATOR PEDAL ACTUATOR
Connector Type	KD206FB

H.S.

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

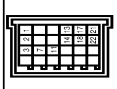
Connector No.	E120
Connector Name	EXHAUST GAS / OUTSIDE DOOR DETECTING SENSOR
Connector Type	RH03FB

H.S.

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

Connector No.	E252
Connector Name	JOINT CONNECTOR-E01
Connector Type	NH24FW-J

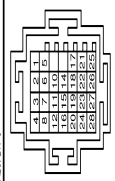
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	–
2	P	–
3	GR	–
7	GR	–
11	GR	–
13	L	–
14	P	–
17	L	–
18	P	–
21	L	–
22	P	–

Connector No.	E253
Connector Name	JOINT CONNECTOR-E02
Connector Type	SGA28FBR-J

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	–
2	R	–
3	G	–
4	Y	–
5	P	–
6	L	–
7	G	–
8	Y	–
10	L	–
11	G	–
12	W	–
14	G	– [Without BOSE system]
14	P	– [With BOSE system]
15	SHIELD	–
16	R	–
17	W	–
18	G	–
19	GR	–
20	B	–
21	R	–
22	G	–
23	SHIELD	–
24	B	–
25	R	–
26	G	– [Without BOSE system]
26	P	– [With BOSE system]
27	SHIELD	–
28	G	– [With NAVI]
28	L	– [Without NAVI]

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

H.S.

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

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

H.S.

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

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

H.S.

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

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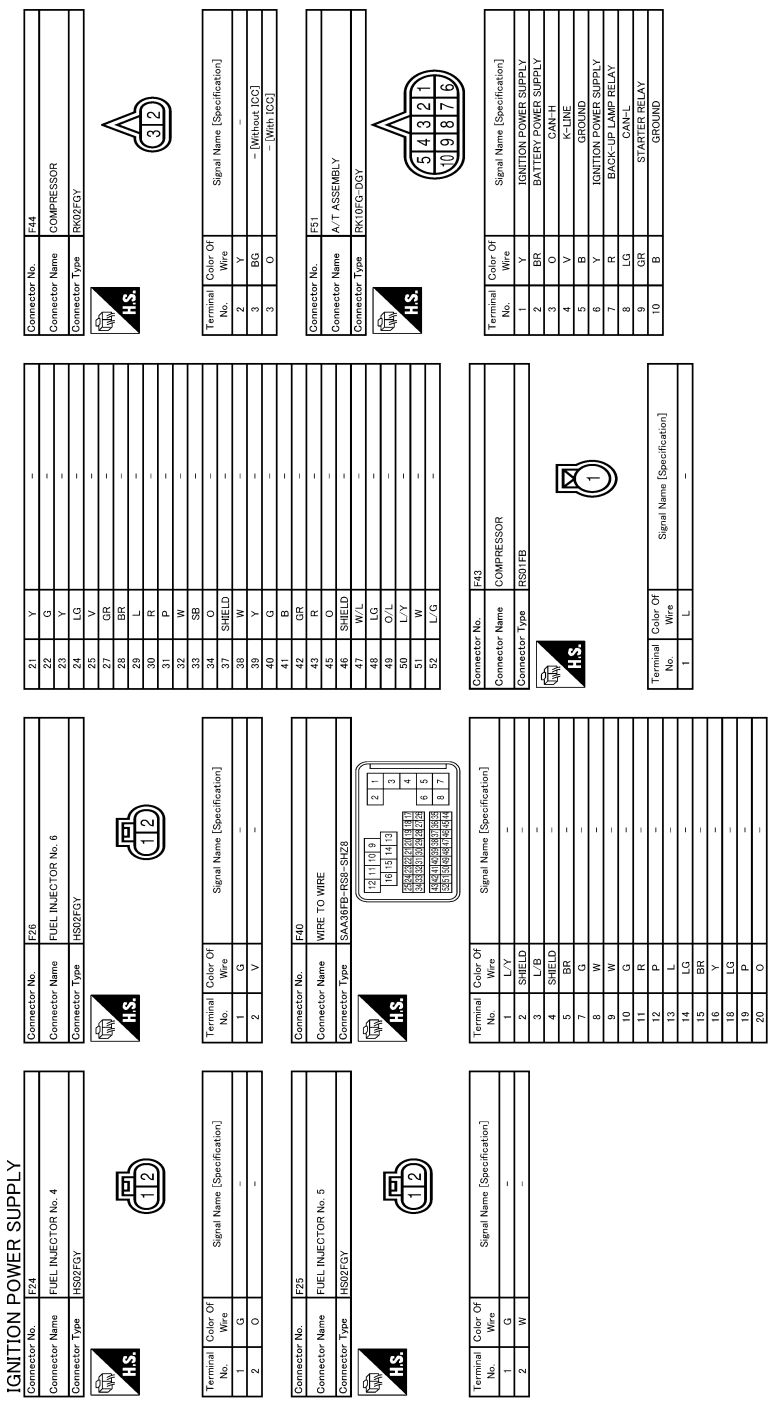
IGNITION POWER SUPPLY



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IGNITION POWER SUPPLY

Connector No.	F101
Connector Name	ECM
Connector Type	RH40FB-RZ8-L-LH-Z

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	A/F SENSOR 1 HEATER (BANK 1)
2	G	THROTTLE CONTROL MOTOR (BANK 1) [OPEN]
3	R	THROTTLE CONTROL MOTOR RELAY POWER SUPPLY (BANK 1)
4	BR	THROTTLE CONTROL MOTOR (BANK 1) [CLOSE]
5	W	A/F SENSOR 1 HEATER (BANK 2)
8	B	ECM GROUND
11	GR	IGNITION SIGNAL #4
12	L	IGNITION SIGNAL #3
15	V	IGNITION SIGNAL #5
16	G	IGNITION SIGNAL #2
17	P	HEATED OXYGEN SENSOR 2 HEATER (BANK 1)
18	W	IVT CONTROL SOLENOID VALVE (BANK 1)
19	SB	IGNITION SIGNAL #6
20	Y	IGNITION SIGNAL #1
21	GR	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
22	R	FUEL PUMP RELAY
24	P	ECM RELAY (SELF SHUT-OFF)
25	O	THROTTLE CONTROL MOTOR RELAY
28	BR	VVEL ACTUATOR MOTOR RELAY (FOR SIGNAL VVEL CONTROL MODULE)
29	G	IVT CONTROL SOLENOID VALVE (BANK 2)
30	Y	THROTTLE POSITION SENSOR 1 (BANK 1)
31	R	THROTTLE POSITION SENSOR 1 (BANK 2)
33	SB	HEATED OXYGEN SENSOR 2 HEATER (BANK 2)
34	B	THROTTLE POSITION SENSOR 2 (BANK 1)
35	W	THROTTLE POSITION SENSOR 2 (BANK 2)
36	O	SENSOR GROUND
37	W	CRANKSHAFT POSITION SENSOR (POS)
38	O	MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR
39	P	BRAKE BOOSTER PRESSURE SENSOR
40	R	SENSOR GROUND
43	G	SENSOR POWER SUPPLY
44	L	SENSOR POWER SUPPLY
45	LG	SENSOR POWER SUPPLY
46	R	SENSOR POWER SUPPLY
47	Y	SENSOR GROUND
48	B	SENSOR GROUND

Connector No.	F102
Connector Name	ECM
Connector Type	RH40FBR-RZ8-L-LH-Z

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
49	GR	THROTTLE CONTROL MOTOR (CLOSE) (BANK 2)
50	V	THROTTLE CONTROL MOTOR (OPEN) (BANK 2)
52	R	THROTTLE CONTROL MOTOR RELAY POWER SUPPLY (BANK 2)
53	W	IGNITION SWITCH
54	Y	CAN COMMUNICATION LINE (VVEL CONTROL MODULE)
55	LG	CAN COMMUNICATION LINE (VVEL CONTROL MODULE)
57	L	A/F SENSOR 1 (BANK 1)
59	O	CAMSHAFT POSITION SENSOR (PHASE) (BANK 1)
60	G	SENSOR POWER SUPPLY
61	R	A/F SENSOR 1 (BANK 1)
63	L	CAMSHAFT POSITION SENSOR (PHASE) (BANK 2)
64	SB	SENSOR POWER SUPPLY
65	LG	A/F SENSOR 1 (BANK 2)
66	V	A/F SENSOR 1 (BANK 2)
67	P	INTAKE AIR TEMPERATURE SENSOR
68	LG	SENSOR GROUND
69	W	KNOCK SENSOR (BANK 2)
71	Y	ENGINE COOLANT TEMPERATURE SENSOR
72	SHIELD	SENSOR GROUND
73	W	KNOCK SENSOR (BANK 1)
76	W	HEATED OXYGEN SENSOR 2 (BANK 1)
77	SB	MASS AIR FLOW SENSOR (BANK 1)
78	G	ENGINE OIL TEMPERATURE SENSOR
79	BR	MASS AIR FLOW SENSOR (BANK 2)
80	O	HEATED OXYGEN SENSOR 2 (BANK 2)
81	R	FUEL INJECTOR #3
82	V	FUEL INJECTOR #6
84	B	SENSOR GROUND
85	BR	FUEL INJECTOR #2
86	W	FUEL INJECTOR #5
87	Y	POWER STEERING PRESSURE SENSOR
89	GR	FUEL INJECTOR #1
90	O	FUEL INJECTOR #4
91	SB	BATTERY CURRENT SENSOR
92	G	SENSOR GROUND
93	P	POWER SUPPLY FOR ECM (BACK-UP)
94	Y	SENSOR GROUND
95	G	SENSOR GROUND
96	P	SENSOR GROUND

Connector No.	F103
Connector Name	WIRE TO WIRE
Connector Type	TK16FW-NS10

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
2	G	–
3	W	–
4	R	–
5	B	–
9	Y	–
10	GR	–
19	BG	– [Without ICC]
19	O	– [With ICC]
20	Y	–
28	B	–
29	LG	–
31	R	–
33	GR	–
34	B	–
35	L	–
36	P	–
37	Y	–
38	G	–
43	LG	–
44	O	–
45	Y	–
46	V	–

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

H.S.

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	TH08MW-NH

H.S.

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

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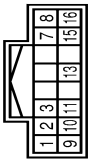
IGNITION POWER SUPPLY

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

H.S.



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

Connector No.	F121
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 2)
Connector Type	RH04MB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	SENSOR(–)
2	LG	HEATER(+)
3	SB	HEATER(–)
4	O	SENSOR(+)

Connector No.	F122
Connector Name	HEATED OXYGEN SENSOR 2 (BANK 1)
Connector Type	RH04MB

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	SENSOR(–)
2	R	HEATER(+)
3	P	HEATER(–)
4	W	SENSOR(+)

Connector No.	F123
Connector Name	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 1)
Connector Type	RH04FDGY-P

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	A/F(+)
2	R	A/F(–)
3	W	HEATER(–)
4	Y	HEATER(+)

Connector No.	F124
Connector Name	AIR FUEL RATIO (A/F) SENSOR 1 (BANK 2)
Connector Type	RH04FDGY-P

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	LG	A/F(+)
2	V	A/F(–)
3	W	HEATER(–)
4	Y	HEATER(+)

Connector No.	F253
Connector Name	JOINT CONNECTOR-F02
Connector Type	SGA28FW-J

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	SHIELD	–
3	SB	–
4	LG	–
5	B	–
7	SB	–
8	LG	–
9	SHIELD	–
12	B	–
13	SHIELD	–
16	G	–
17	SHIELD	–
20	G	–
21	SHIELD	–
25	B	–
28	W	–

Connector No.	F201
Connector Name	TCM
Connector Type	SP10FG

H.S.

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

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

H.S.

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

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IGNITION POWER SUPPLY

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

H.S.

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

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
10C	L	–
11C	R	–
12C	BG	–
6C	R	–
7C	B	–
8C	G	–
9C	BG	–

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	B	–
3	BR	–
4	P	–
5	L	–
6	R	–
7	R	–
8	W	–
9	G	–
10	L	–
11	G	–
12	V	–
13	B	–
14	Y	–
15	W	–
16	R	–
17	B	–
18	SHIELD	–
19	G	–
20	L	–
21	LG	–
22	L	–
23	G	–
24	Y	–
25	GR	–
26	R	–
27	W	–
28	V	–
29	Y	–
30	Y	–
31	R	–
32	BR	–
33	SB	–
34	Y	–
35	P	–
36	LG	–
37	BR	–
38	P	–
39	BG	–
40	SB	–
41	L	–
42	R	–
43	BR	–
44	V	–
45	G	–
46	SB	– [With automatic drive positioner]
46	V	– [Without automatic drive positioner]
47	R	–
48	G	–
49	P	–
50	SHIELD	–
51	R	–
52	R	–
53	V	–
54	LG	–
55	SB	–

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	– [With NAVI]
1	Y	– [Without NAVI]
2	B	– [Without NAVI]
2	R	– [With NAVI]
3	B	– [With NAVI]
3	G	– [Without NAVI]
4	SHIELD	–
5	G	–
6	R	–
7	W	–
8	Y	–
9	BR	–
10	R	–
11	BR	–
12	BG	–
13	L	–
14	R	–
15	P	–
16	V	–
17	SB	–
18	V	–
20	BG	–
21	L	–
22	W	–
23	P	–
24	BR	–
25	Y	–
26	V	–
27	G	–
28	G	–
31	L	–
32	G	–
33	B	–
34	W	–
35	R	–
36	SHIELD	–
37	V	–
38	BG	–
39	BR	–
41	W	–
42	BG	–
43	BG	–
45	W	–
49	L	–
50	P	–
51	BR	–
54	Y	–
57	G	–
59	W	–
60	L	–
61	G	–
62	SB	–
63	G	–
64	B	–
65	W	–
66	R	–
67	SHIELD	–
68	Y	–
69	GR	–
70	LG	–
71	LG	–
72	Y	–
73	SB	–
74	BR	– [With ICC]

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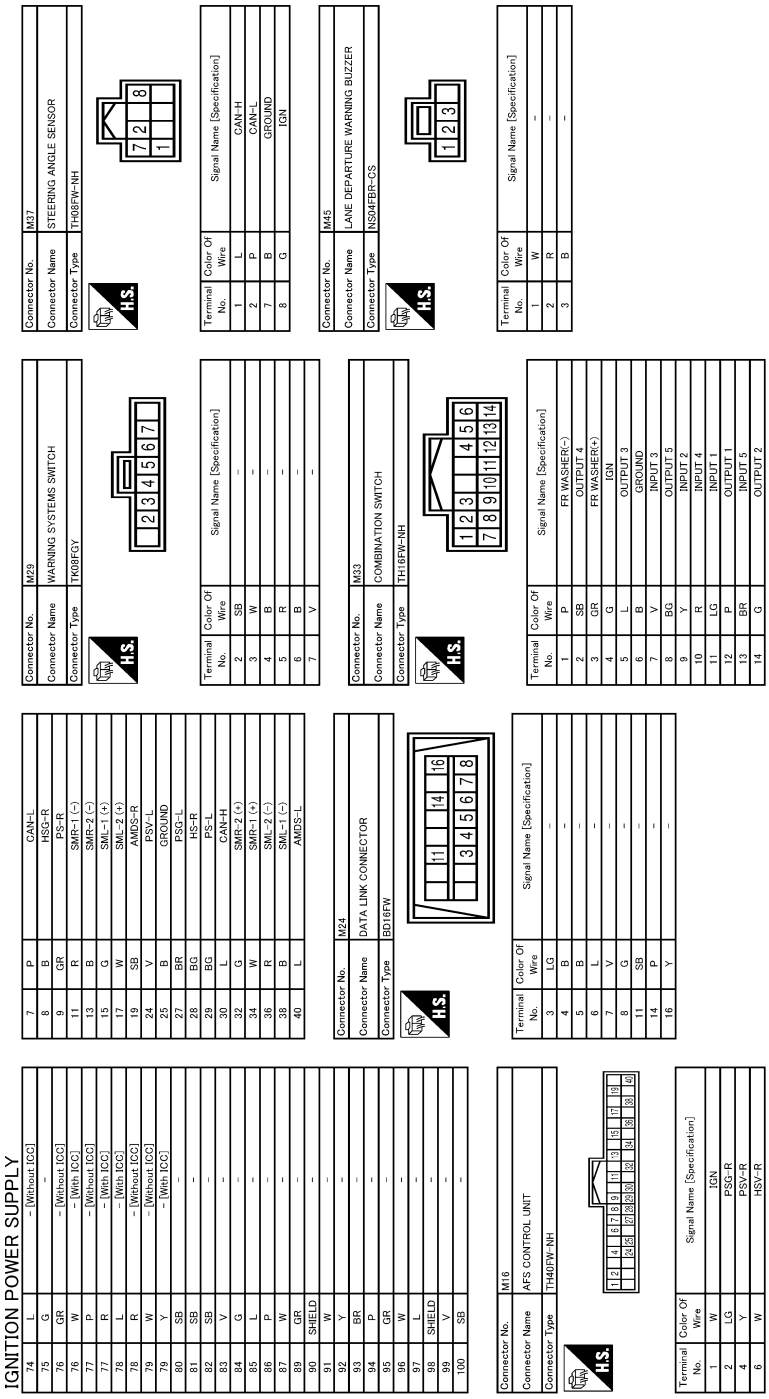

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IGNITION POWER SUPPLY

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

Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	BATTERY POWER SUPPLY
2	LG	COMMUNICATION SIGNAL (METER->AMP.)
3	GR	COMMUNICATION SIGNAL (AMP.->METER)
5	B	GROUND
6	P	ALTERNATOR SIGNAL
7	BR	AIR BAG SIGNAL
10	G	SECURITY SIGNAL
15	B	GROUND
16	B	METER CONTROL SWITCH GROUND
19	B	ILL GND
20	R	ILL
21	BG	IGNITION SIGNAL
22	B	GROUND
24	BR	COMMUNICATION SIGNAL (LCD->AMP.)
25	Y	COMMUNICATION SIGNAL (AMP.->LCD)
26	R	VEHICLE SPEED SIGNAL (8-PULSE)
27	V	PARKING BRAKE SWITCH SIGNAL
28	W	BRAKE FLUID LEVEL SWITCH SIGNAL
29	SB	SEAT BELT BUCKLE SWITCH SIGNAL [DRIVER SIDE]
30	G	SEAT BELT BUCKLE SWITCH SIGNAL [PASSENGER SIDE]
31	L	WASHER LEVEL SWITCH SIGNAL
33	B	ILLUMINATION CONTROL SIGNAL
36	LG	SELECT SWITCH SIGNAL
37	SB	ENTER SWITCH SIGNAL
38	L	TRIP A/B RESET SWITCH SIGNAL
39	P	ILLUMINATION CONTROL SWITCH SIGNAL (-)
40	BG	ILLUMINATION CONTROL SWITCH SIGNAL (+)

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

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

Connector No.	M69
Connector Name	BACK-UP LAMP RELAY
Connector Type	MS02FL-M2-LC

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

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

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

Connector No.	M108
Connector Name	POWER STEERING CONTROL UNIT
Connector Type	TH12FW-NH

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

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

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

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IGNITION POWER SUPPLY

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

H.S.

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

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
1	L	–
2	G	–
3	GR	–
4	SB	–
7	W	–
10	W	–
15	SB	–
16	V	–
17	BR	–
18	GR	–
19	W	–
26	BR	–
27	LG	–
28	Y	–
29	Y	–
30	V	–
31	R	–
32	BR	–
33	G	–
51	R	–
55	W	–
56	B	–
57	R	–
58	G	–
59	SHIELD	–
60	V	–
61	LG	–
62	BR	–
63	L	–
64	LG	–
65	B	–
66	R	–
67	W	–
68	SHIELD	–
69	V	–
70	Y	–
71	SB	–
72	W	–
73	G	–
75	W	–
80	V	–
81	SB	–
82	V	–
83	P	–
84	R	–
85	L	–
86	BG	–
87	L	–
88	P	–
91	V	–
92	G	–
94	G	–
95	W	–
96	G	–
97	Y	–
98	BR	–
99	P	– [Without BOSE system]
99	V	– [With BOSE system]
100	L	– [Without BOSE system]
100	SB	– [With BOSE system]

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

H.S.

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

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

H.S.

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

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

H.S.

Terminal No.	Color Of Wire	Signal Name [Specification]
34	SB	LUGGAGE ROOM ANT–
35	V	LUGGAGE ROOM ANT+
38	B	BACK DOOR ANT–
39	W	BACK DOOR ANT+
47	Y	IGN RELAY (IPDM E/R) CONT
52	SB	STARTER RELAY CONT
60	BR	PUSH SW

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IGNITION POWER SUPPLY

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

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

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

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

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

Terminal No.	Color Of Wire	Signal Name [Specification]
113	P	OPLICAL SENSOR
116	SB	STOP LAMP SW 1
118	P	STOP LAMP SW 2
119	SB	DR DOOR UNLOCK SENSOR
121	BR	KEY SLOT SW
123	W	IGN F/B
124	LG	PASSENGER DOOR SW
132	BR	POWER WINDOW SW COMM
133	W	PUSH–BUTTON IGNITION SW ILL POWER
134	GR	LOCK IND
137	BG	RECEIVER/SENSOR GND
138	Y	RECEIVER/SENSOR POWER SUPPLY
139	L	TIRE PRESSURE RECEIVER COMM
140	GR	SHIFT N/P
141	G	SECURITY IND LAMP CONT
142	BG	COMBI SW OUTPUT 5
143	P	COMBI SW OUTPUT 1
144	G	COMBI SW OUTPUT 2
145	L	COMBI SW OUTPUT 3
146	SB	COMBI SW OUTPUT 4
150	LG	DRIVER DOOR SW
151	G	REAR WINDOW DEFOGGER RELAY CONT

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

Terminal No.	Color Of Wire	Signal Name [Specification]
7	Y	–
8	LG	–
9	Y	–
12	L	–
13	V	–
14	B	–
15	W	–
16	BR	–
17	B	–
18	R	–
19	B	–
20	G	– [With around view monitor]
20	W	– [Without around view monitor]
21	L	– [Without around view monitor]
21	SHIELD	– [With around view monitor]
22	SB	–
23	GR	–
24	G	–
25	Y	–
26	R	–
27	W	–
30	W	–
33	BR	–
34	V	–
35	G	–
36	Y	–
37	BR	–
43	L	–
44	Y	–
45	R	–
46	W	–
47	SHIELD	–
52	R	–
53	G	–
54	W	–
55	BG	–

Connector No.	M125
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.	M126
Connector Name	WIRE TO WIRE
Connector Type	M03MW-LC

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

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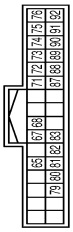
IGNITION POWER SUPPLY

Connector No.	M134
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

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

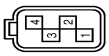
4	G	-

Connector No.	M151
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



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

Connector No.	M143
Connector Name	YAW RATE / SIDE G SENSOR
Connector Type	AA2D14FB-S

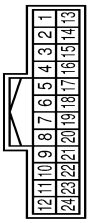


Terminal No.	Color Of Wire	Signal Name [Specification]
1	B	-
2	Y	-
3	SB	-

Connector No.	M160
Connector Name	IONIZER
Connector Type	TH04FW-NH

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

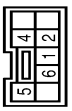
Connector No.	M170
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



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

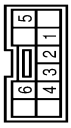
20	R	-

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



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

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



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

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IGNITION POWER SUPPLY

Connector No.	M178
Connector Name	HEATED SEAT SWITCH (PASSENGER SIDE)
Connector Type	TK08FBR

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

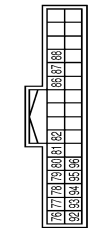
Connector No.	M213
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX

Terminal No.	Color Of Wire	Signal Name [Specification]
23	Y	AS2(+)
24	Y	AS2(-)
25	Y	AS1(-)
26	Y	AS1(+)
27	B	GND
28	Y	DR2(+)
29	Y	DR1(-)DR2(-)
30	Y	DR1(+)
31	V	EC2S(-)
32	BR	DOOR SATELLITE RH2(-)
34	G	DOOR SATELLITE LH2(-)
35	BR	A/B OFF IND
38	G	SEATBELT W/L
39	SHIELD	GND
41	SB	EC2S(+)
42	Y	DOOR SATELLITE RH2(+)
44	R	DOOR SATELLITE LH2(+)
45	P	CAN-L
46	L	CAN-H
47	R	A/B CUTOFF TELLTALE
50	R	IGN

Connector No.	M186
Connector Name	ICC WARNING CHIME
Connector Type	A03FW

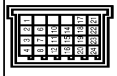
Terminal No.	Color Of Wire	Signal Name [Specification]
1	GR	-
3	W	-

Connector No.	M217
Connector Name	AV CONTROL UNIT
Connector Type	TH32FW-NH



Terminal No.	Color Of Wire	Signal Name [Specification]
76	LG	AV COMM (L)
77	SB	AV COMM (H)
78	LG	AV COMM (L)
79	SB	AV COMM (H)
80	P	CAN-L
81	L	CAN-H
82	B	SW GND
86	SHIELD	SHIELD
87	L	TEL VOICE SIGNAL (+)
88	P	TEL VOICE SIGNAL (-)
92	R	VEHICLE SPEED SIGNAL (8-PULSE)
93	V	PARKING BRAKE SIGNAL
94	BG	REVERSE SIGNAL
95	G	IGNITION SIGNAL
96	Y	DISK EJECT SIGNAL

Connector No.	M351
Connector Name	JOINT CONNECTOR-M04
Connector Type	NH24FW-J



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

7	P	-
8	L	-
10	W	-
11	P	-
12	L	-
14	B	-
15	P	-
16	L	-
17	V	-
18	B	-
19	P	-
20	L	-
21	V	-
22	B	-
23	P	-
24	L	-

Connector No.	M353
Connector Name	JOINT CONNECTOR-M02
Connector Type	SGA28FDGY-J

Terminal No.	Color Of Wire	Signal Name [Specification]
1	G	-
2	R	- [Without BOSE system]
2	V	- [With BOSE system]
3	V	-
4	BG	-
5	G	-
6	R	-
7	V	-
8	BG	-
9	G	-
10	R	-
11	V	-
13	W	-
14	R	-
17	W	-
19	V	-
21	W	-
22	R	-

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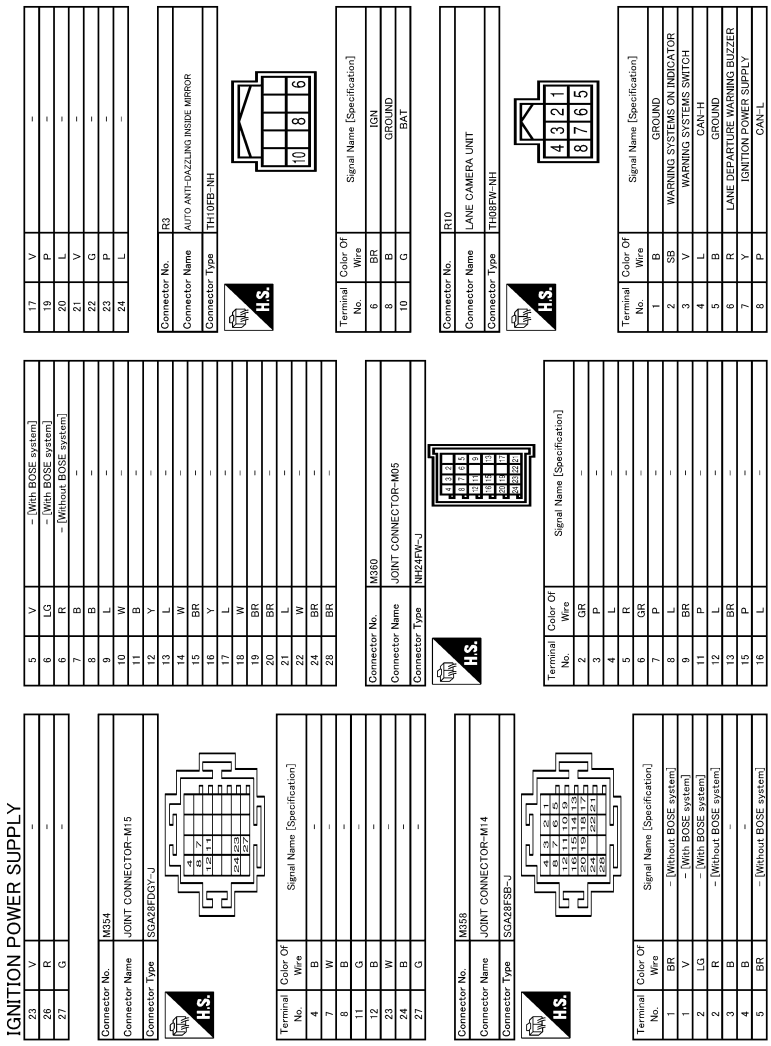

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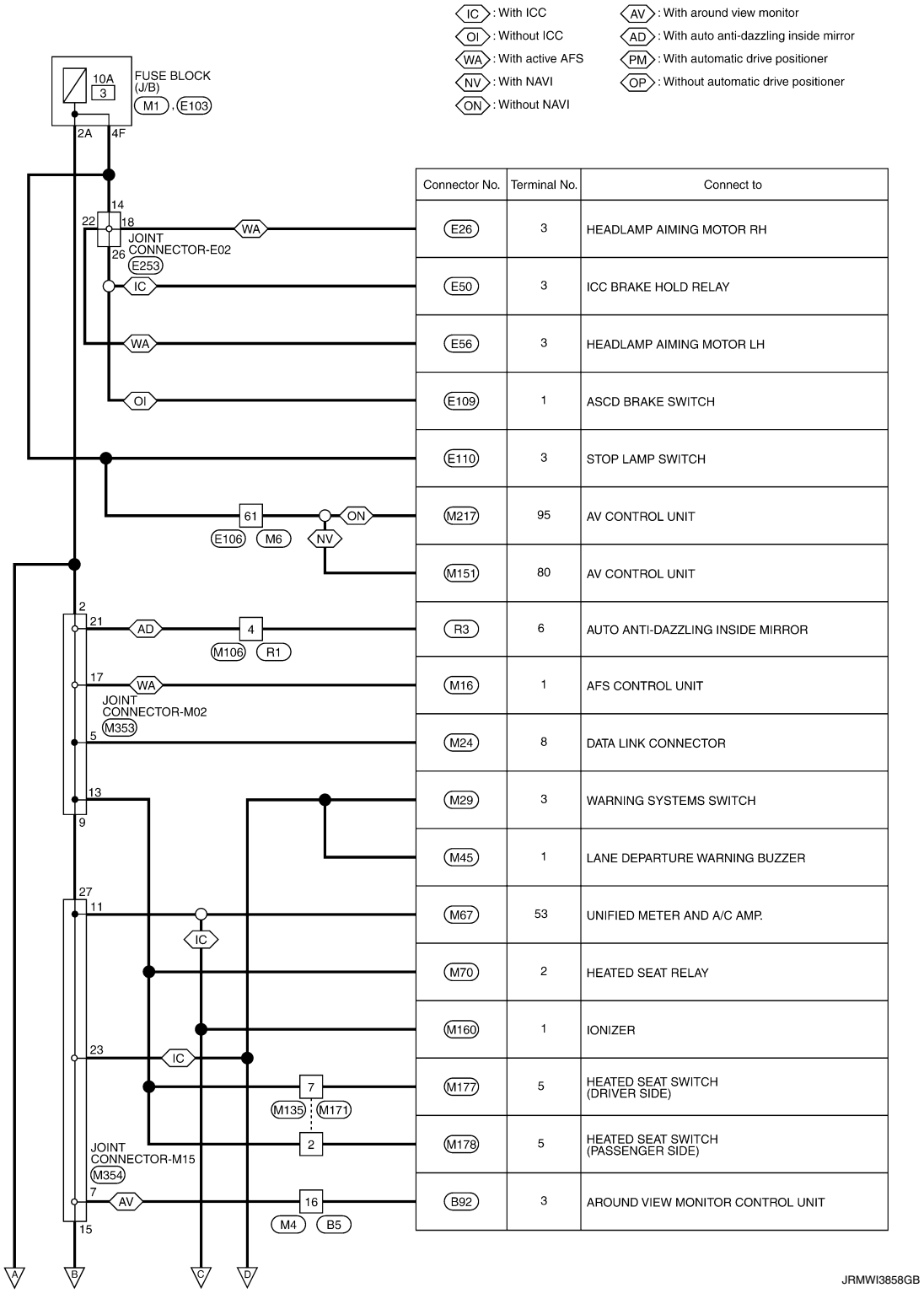
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 3 -

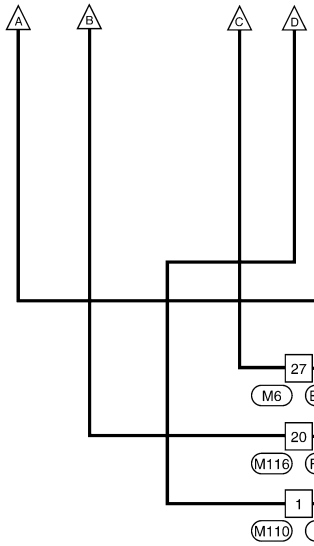
INFOID:0000000012168990

IGNITION POWER SUPPLY FUSE No. 3



Connector No.	Terminal No.	Connect to
E26	3	HEADLAMP AIMING MOTOR RH
E50	3	ICC BRAKE HOLD RELAY
E56	3	HEADLAMP AIMING MOTOR LH
E109	1	ASCD BRAKE SWITCH
E110	3	STOP LAMP SWITCH
M217	95	AV CONTROL UNIT
M151	80	AV CONTROL UNIT
R3	6	AUTO ANTI-DAZZLING INSIDE MIRROR
M16	1	AFS CONTROL UNIT
M24	8	DATA LINK CONNECTOR
M29	3	WARNING SYSTEMS SWITCH
M45	1	LANE DEPARTURE WARNING BUZZER
M67	53	UNIFIED METER AND A/C AMP.
M70	2	HEATED SEAT RELAY
M160	1	IONIZER
M177	5	HEATED SEAT SWITCH (DRIVER SIDE)
M178	5	HEATED SEAT SWITCH (PASSENGER SIDE)
B92	3	AROUND VIEW MONITOR CONTROL UNIT

JRMWI3858GB



Connector No.	Terminal No.	Connect to
B87	3	TEL ADAPTER UNIT
E120	1	EXHAUST GAS / OUTSIDE ODOR DETECTING SENSOR
F44	2	COMPRESSOR
R10	7	LANE CAMERA UNIT

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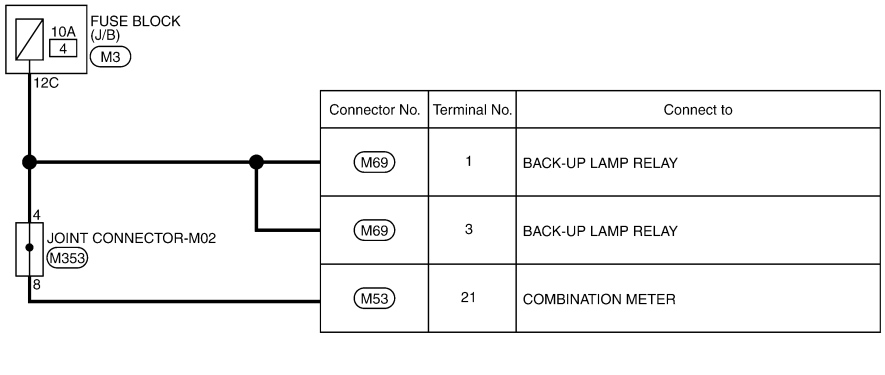
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 4 -

INFOID:0000000012168991

IGNITION POWER SUPPLY FUSE No. 4



Connector No.	Terminal No.	Connect to
M69	1	BACK-UP LAMP RELAY
M69	3	BACK-UP LAMP RELAY
M53	21	COMBINATION METER

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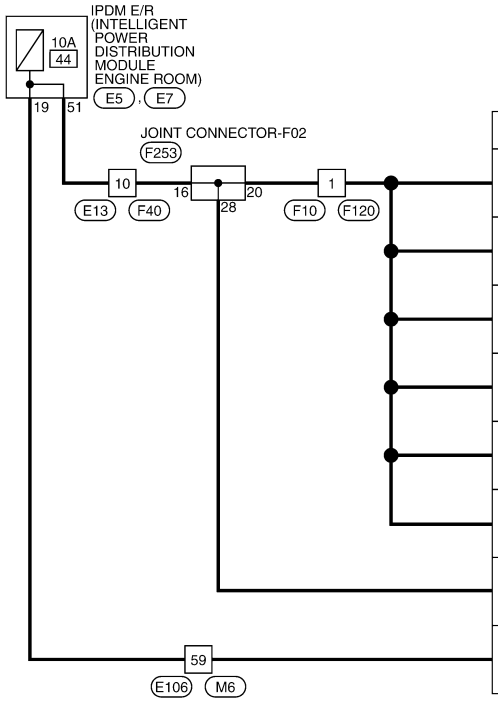
Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 44 -

INFOID:0000000012168992

IGNITION POWER SUPPLY FUSE No. 44



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

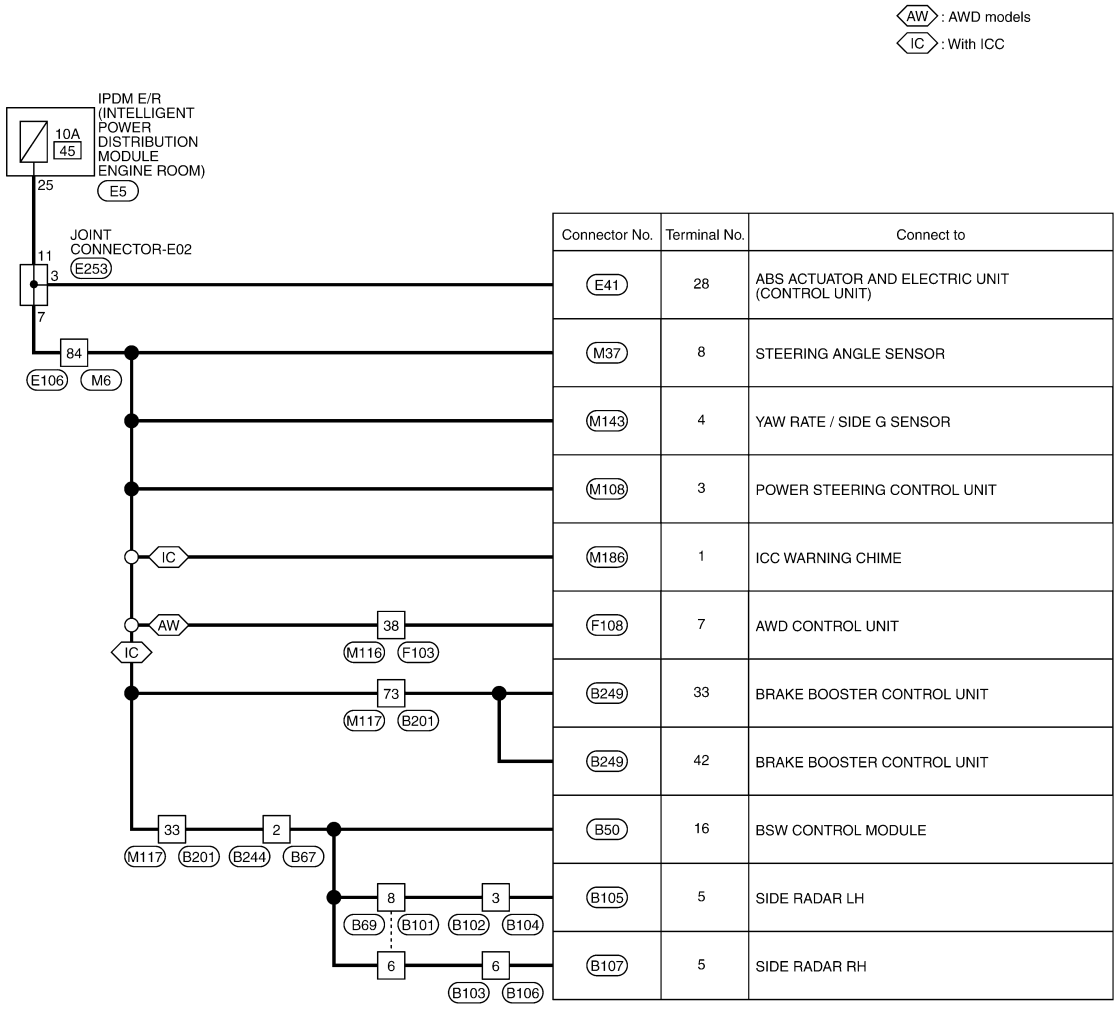
2015/06/22

JRMWI3861GB

Wiring Diagram - IGNITION POWER SUPPLY FUSE No. 45 -

INFOID:0000000012168993

IGNITION POWER SUPPLY FUSE No. 45



Connector No.	Terminal No.	Connect to
E41	28	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
M37	8	STEERING ANGLE SENSOR
M143	4	YAW RATE / SIDE G SENSOR
M108	3	POWER STEERING CONTROL UNIT
M186	1	ICC WARNING CHIME
F108	7	AWD CONTROL UNIT
B249	33	BRAKE BOOSTER CONTROL UNIT
B249	42	BRAKE BOOSTER CONTROL UNIT
B50	16	BSW CONTROL MODULE
B105	5	SIDE RADAR LH
B107	5	SIDE RADAR RH

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Fuse

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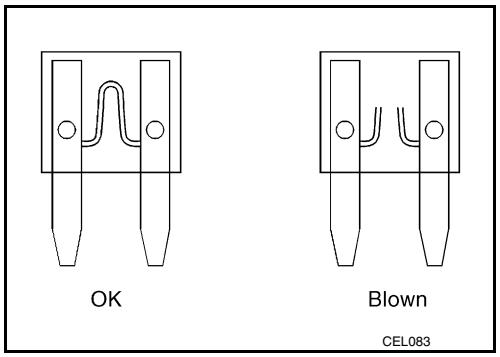
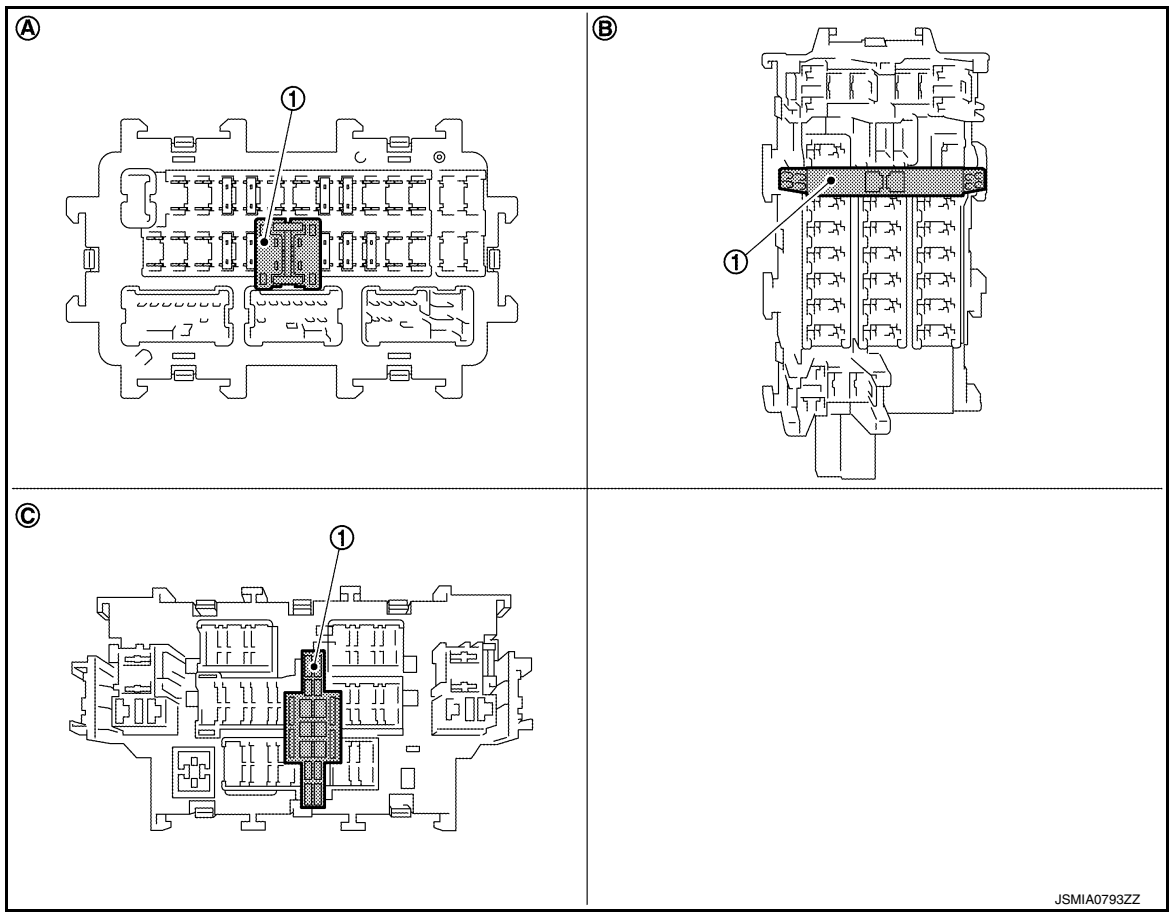
- If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.
- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for “ELECTRICAL PARTS (BAT)” if vehicle is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



EXTENDED STORAGE FUSE SWITCH (IF EQUIPPED)

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



1. Extended storage fuse switch

A. Type A B. Type B C. Type C

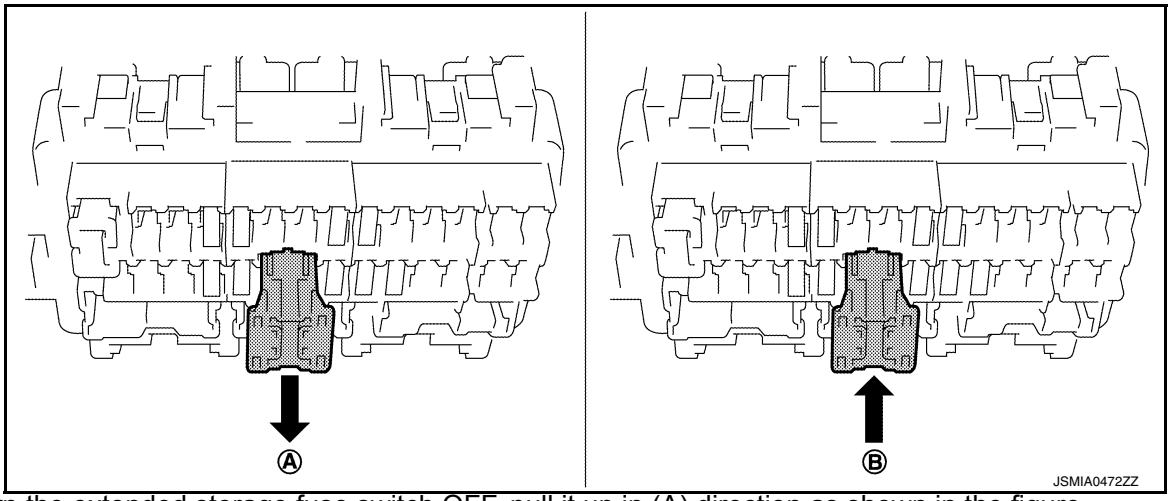
- Remove the extended storage fuse switch when replacing the fuse of extended storage fuse switch.
- Remove the extended storage fuse switch if it causes the interference when the fuse or the other fuses is checked.

How To Extended Storage Fuse Switch ON/OFF

CAUTION:

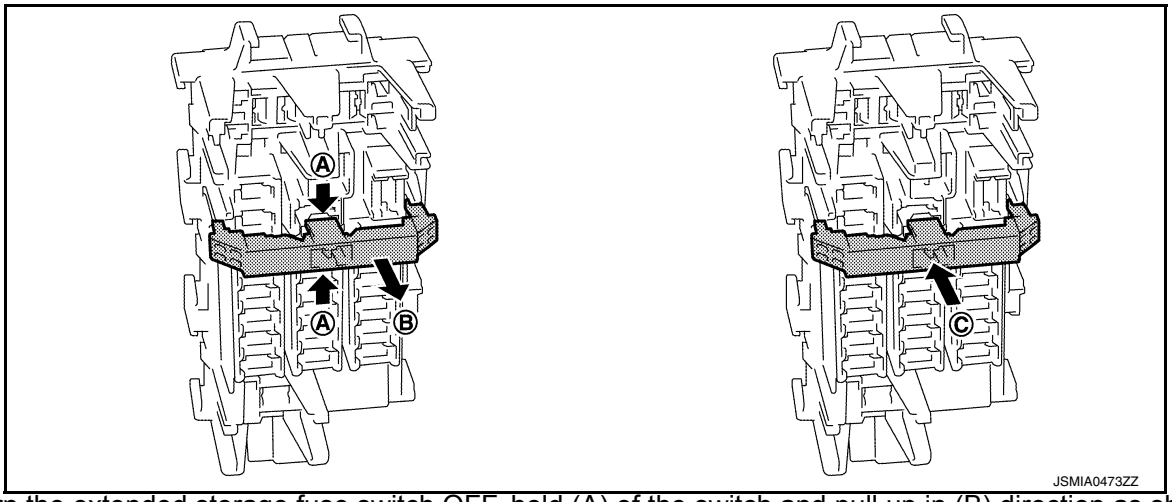
- **Turn the ignition switch OFF when operating the extended storage fuse switch.**
- **Under normal conditions, keep the extended storage fuse switch in ON state. Never operate the extended storage fuse switch except when necessary.**

• Type A



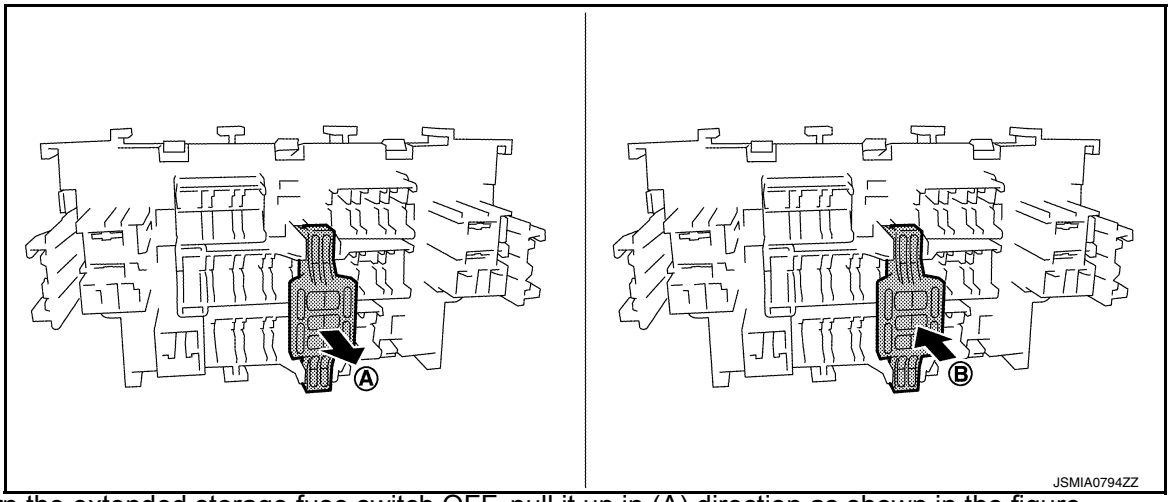
- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

• Type B



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

• Type C

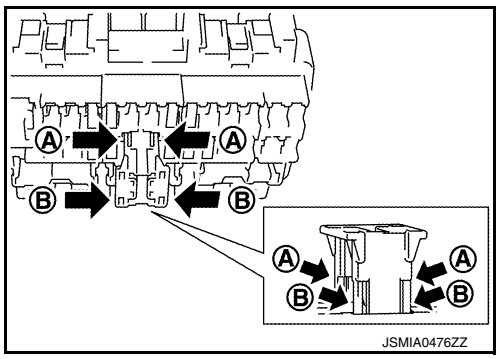


- To turn the extended storage fuse switch OFF, pull it up in (A) direction as shown in the figure.
- To turn the extended storage fuse switch ON, press it in (B) direction as shown in the figure.

How To Remove Extended Storage Fuse Switch

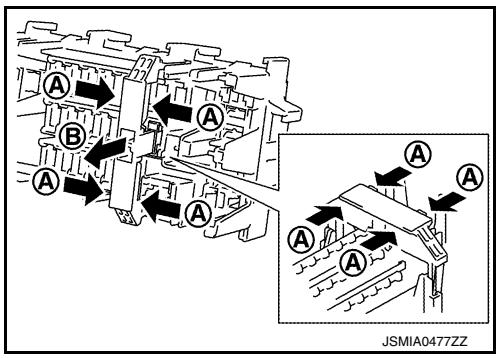
Type A

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



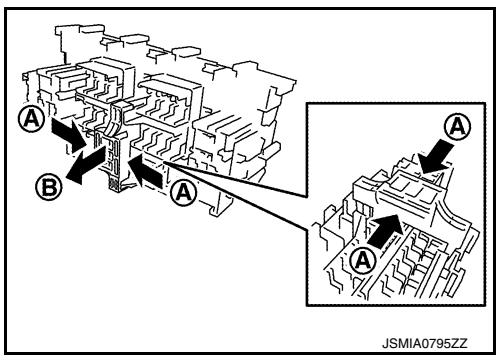
NOTE:
- Extended storage fuse switch and fuse are removed together. Remove fuse from extended storage fuse switch, if necessary.
- Extended storage fuse switch is for transportation and storage. Reinstallation is not required after the removal.

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



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

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



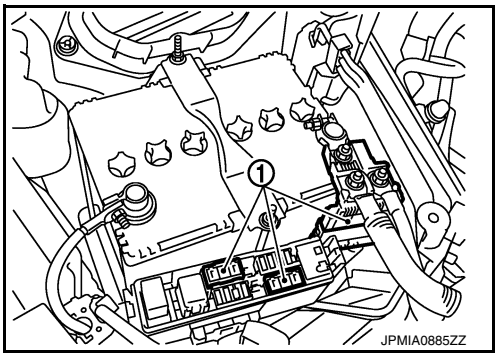
NOTE:
- Extended storage fuse switch and fuse are removed together. Remove fuse from extended storage fuse switch, if necessary.

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

Fusible Link

INFOID:0000000012168995

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

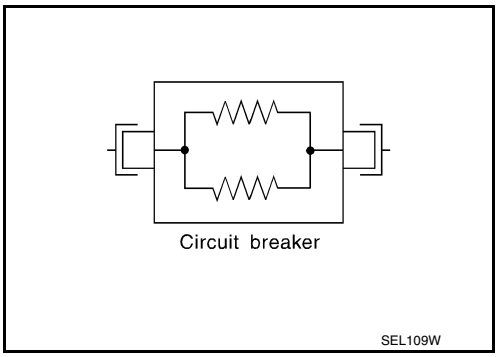
CAUTION:

- **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:0000000012168996

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.



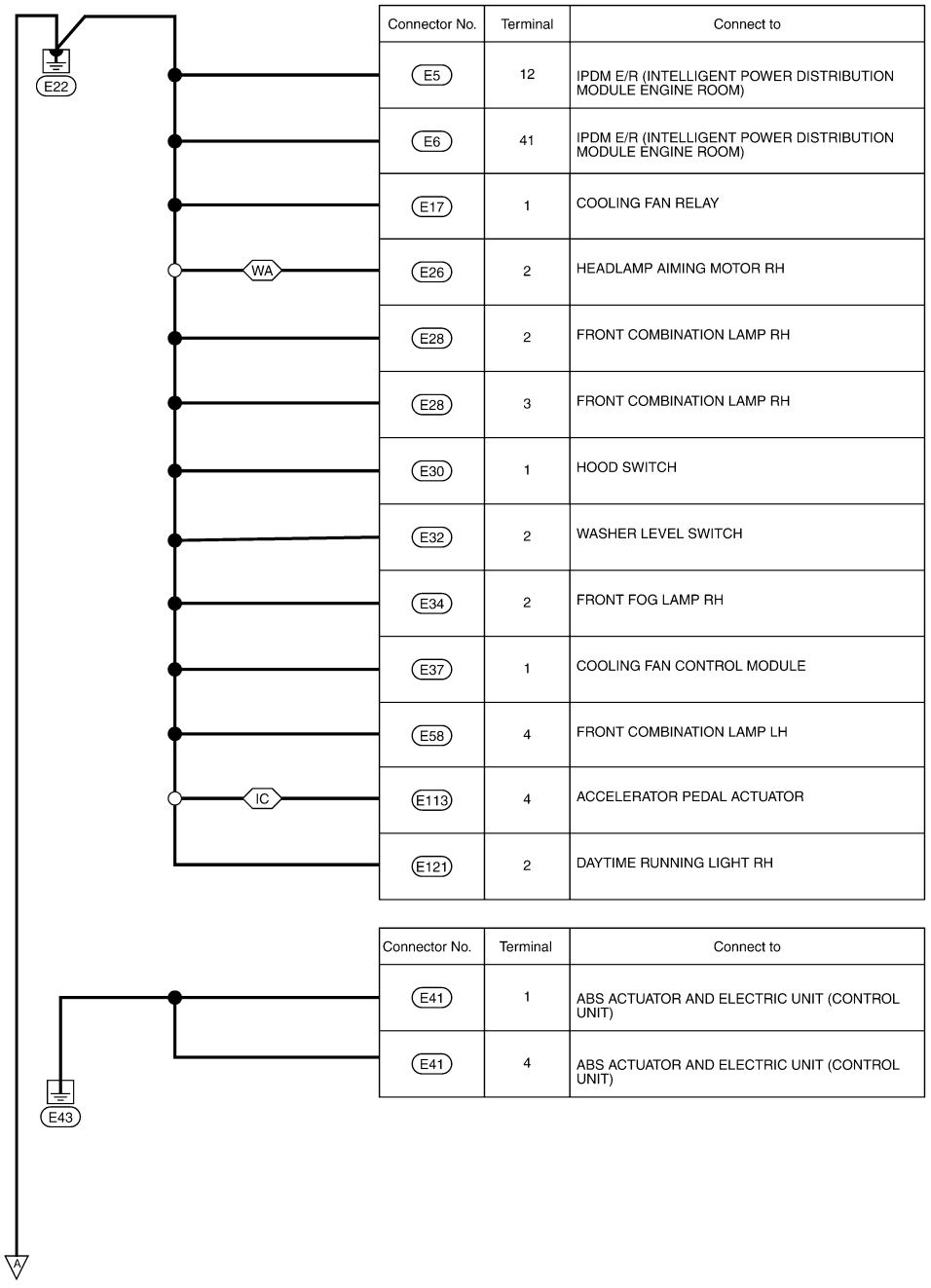
GROUND DISTRIBUTION

Engine Room Harness

INFOID:0000000012168997

ENGINE ROOM HARNESS

WA : With active AFS
IC : With ICC



Connector No.	Terminal	Connect to
E5	12	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E6	41	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E17	1	COOLING FAN RELAY
E26	2	HEADLAMP AIMING MOTOR RH
E28	2	FRONT COMBINATION LAMP RH
E28	3	FRONT COMBINATION LAMP RH
E30	1	HOOD SWITCH
E32	2	WASHER LEVEL SWITCH
E34	2	FRONT FOG LAMP RH
E37	1	COOLING FAN CONTROL MODULE
E58	4	FRONT COMBINATION LAMP LH
E113	4	ACCELERATOR PEDAL ACTUATOR
E121	2	DAYTIME RUNNING LIGHT RH

Connector No.	Terminal	Connect to
E41	1	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
E41	4	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

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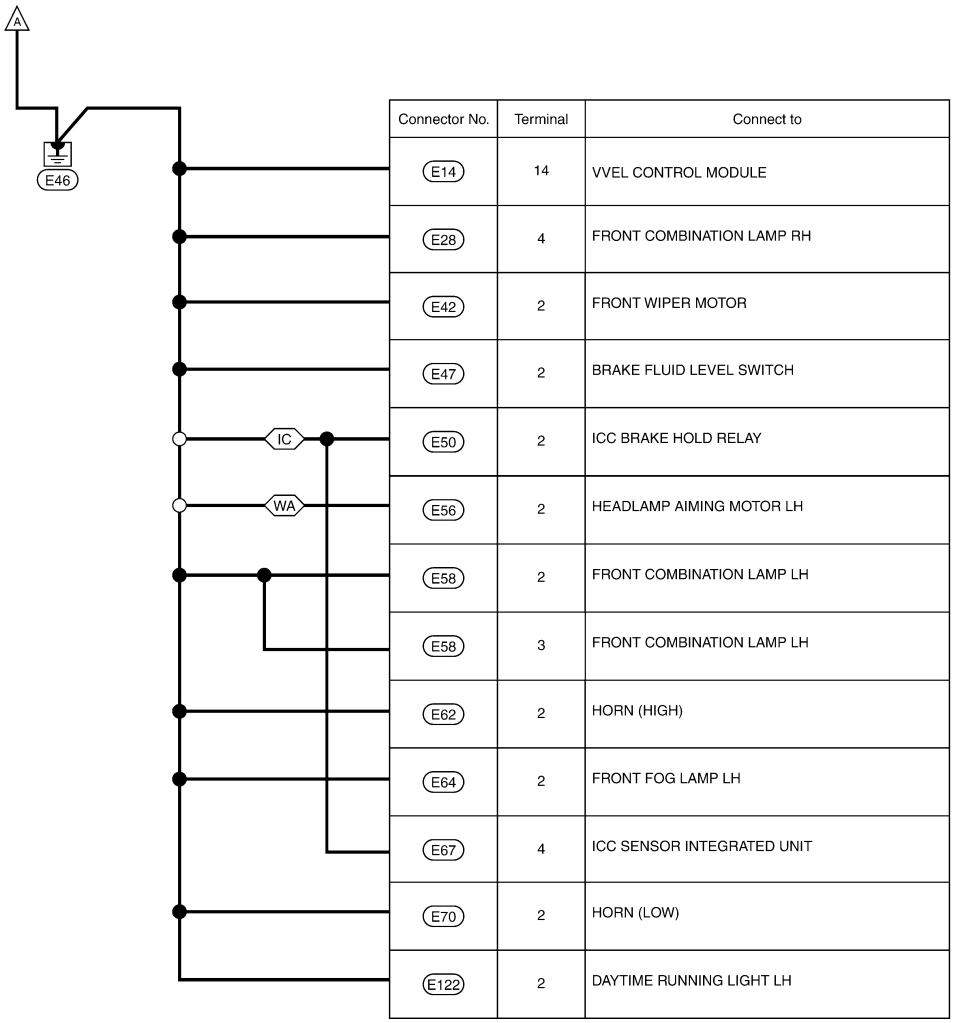

Connector No.	Terminal	Connect to
E14	14	VVEL CONTROL MODULE
E28	4	FRONT COMBINATION LAMP RH
E42	2	FRONT WIPER MOTOR
E47	2	BRAKE FLUID LEVEL SWITCH
E50	2	ICC BRAKE HOLD RELAY
E56	2	HEADLAMP AIMING MOTOR LH
E58	2	FRONT COMBINATION LAMP LH
E58	3	FRONT COMBINATION LAMP LH
E62	2	HORN (HIGH)
E64	2	FRONT FOG LAMP LH
E67	4	ICC SENSOR INTEGRATED UNIT
E70	2	HORN (LOW)
E122	2	DAYTIME RUNNING LIGHT LH

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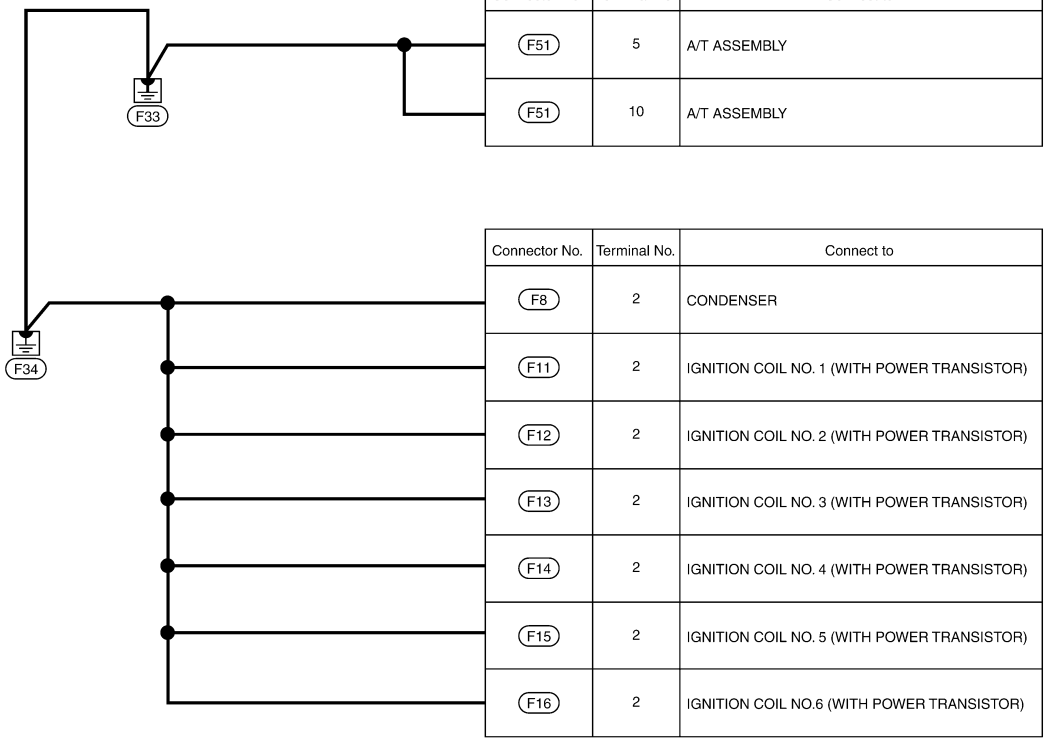
Engine Control Harness

INFOID:0000000012168998

ENGINE CONTROL HARNESS



Connector No.	Terminal No.	Connect to
F51	5	A/T ASSEMBLY
F51	10	A/T ASSEMBLY

Connector No.	Terminal No.	Connect to
F8	2	CONDENSER
F11	2	IGNITION COIL NO. 1 (WITH POWER TRANSISTOR)
F12	2	IGNITION COIL NO. 2 (WITH POWER TRANSISTOR)
F13	2	IGNITION COIL NO. 3 (WITH POWER TRANSISTOR)
F14	2	IGNITION COIL NO. 4 (WITH POWER TRANSISTOR)
F15	2	IGNITION COIL NO. 5 (WITH POWER TRANSISTOR)
F16	2	IGNITION COIL NO.6 (WITH POWER TRANSISTOR)

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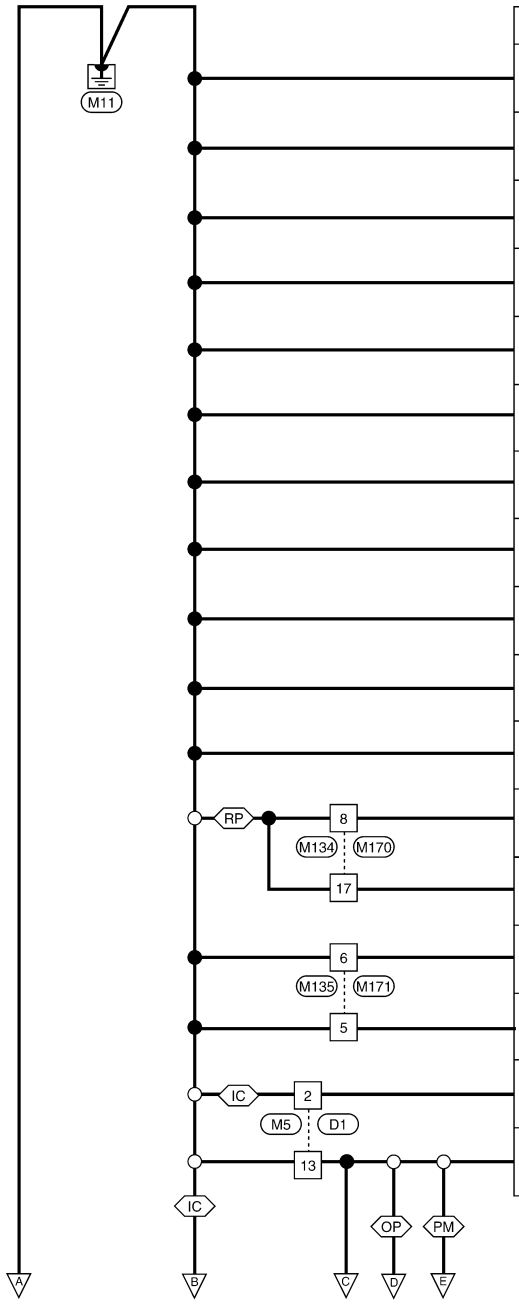
Main Harness

INFOID:0000000012168999

MAIN HARNESS

AC : With ACCS
PM : With automatic drive positioner
OP : Without automatic drive positioner
IC : With ICC
NV : With NAVI
ON : Without NAVI
SN : With sonar system
AV : With around view monitor
WA : With active AFS
AW : AWD models
AD : With auto anti-dazzling inside mirror
RP : With rear seatback power return system



Connector No.	Terminal	Connect to
M33	6	COMBINATION SWITCH
M37	7	STEERING ANGLE SENSOR
M53	5	COMBINATION METER
M53	15	COMBINATION METER
M53	22	COMBINATION METER
M70	1	HEATED SEAT RELAY
M73	4	FRONT PASSENGER AIR BAG OFF INDICATOR
M108	6	POWER STEERING CONTROL UNIT
M132	1	FRONT POWER SOCKET
M143	1	YAW RATE / SIDE G SENSOR
M148	2	CONSOLE POWER SOCKET
M174	2	POWER RETURN SWITCH (LH)
M175	2	POWER RETURN SWITCH (RH)
M177	6	HEATED SEAT SWITCH (DRIVER SIDE)
M178	6	HEATED SEAT SWITCH (PASSENGER SIDE)
D2	4	BSW INDICATOR LH
D3	19	DOOR MIRROR (DRIVER SIDE)

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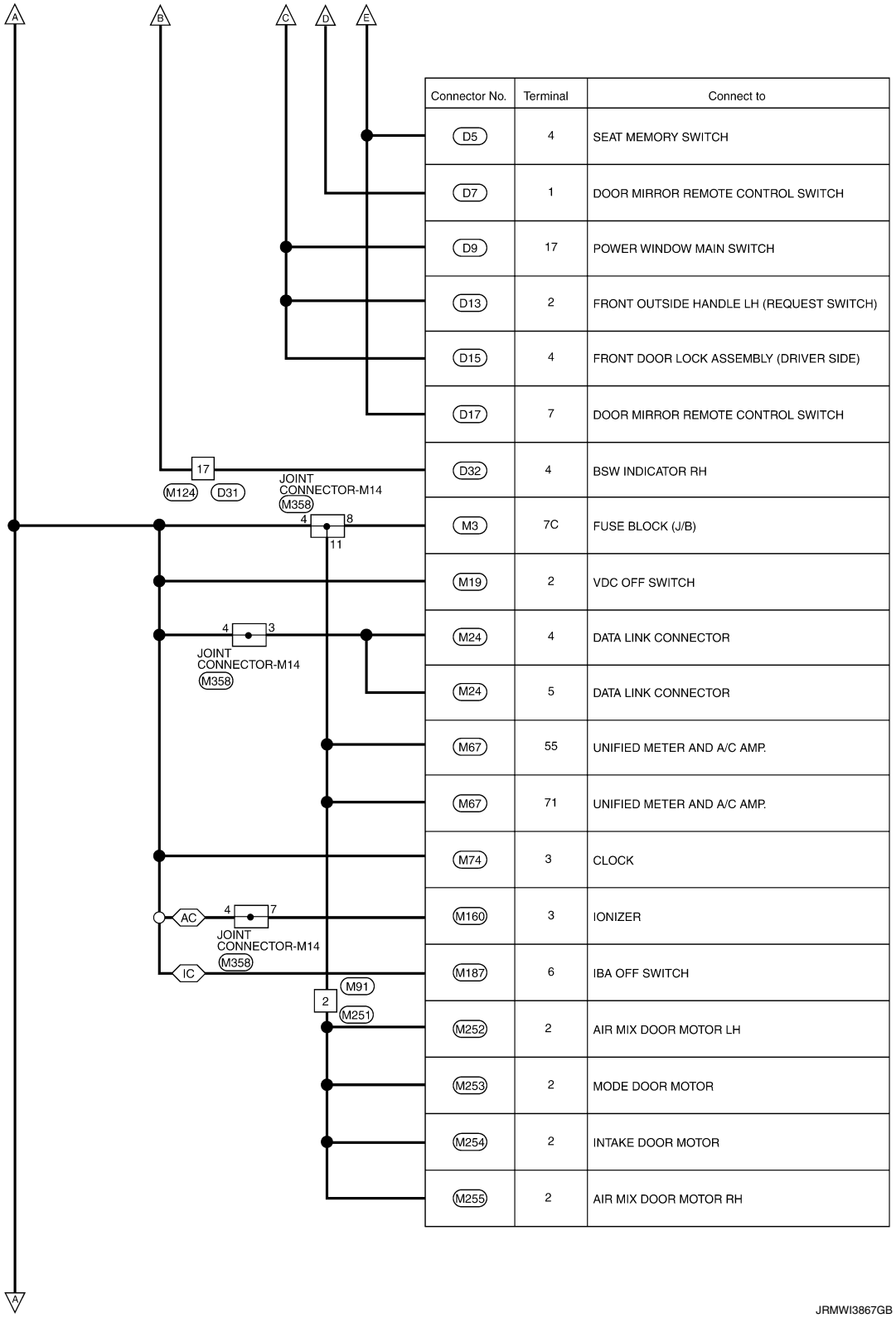

Connector No.	Terminal	Connect to
D5	4	SEAT MEMORY SWITCH
D7	1	DOOR MIRROR REMOTE CONTROL SWITCH
D9	17	POWER WINDOW MAIN SWITCH
D13	2	FRONT OUTSIDE HANDLE LH (REQUEST SWITCH)
D15	4	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
D17	7	DOOR MIRROR REMOTE CONTROL SWITCH
D32	4	BSW INDICATOR RH
M3	7C	FUSE BLOCK (J/B)
M19	2	VDC OFF SWITCH
M24	4	DATA LINK CONNECTOR
M24	5	DATA LINK CONNECTOR
M67	55	UNIFIED METER AND A/C AMP.
M67	71	UNIFIED METER AND A/C AMP.
M74	3	CLOCK
M160	3	IONIZER
M187	6	IBA OFF 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

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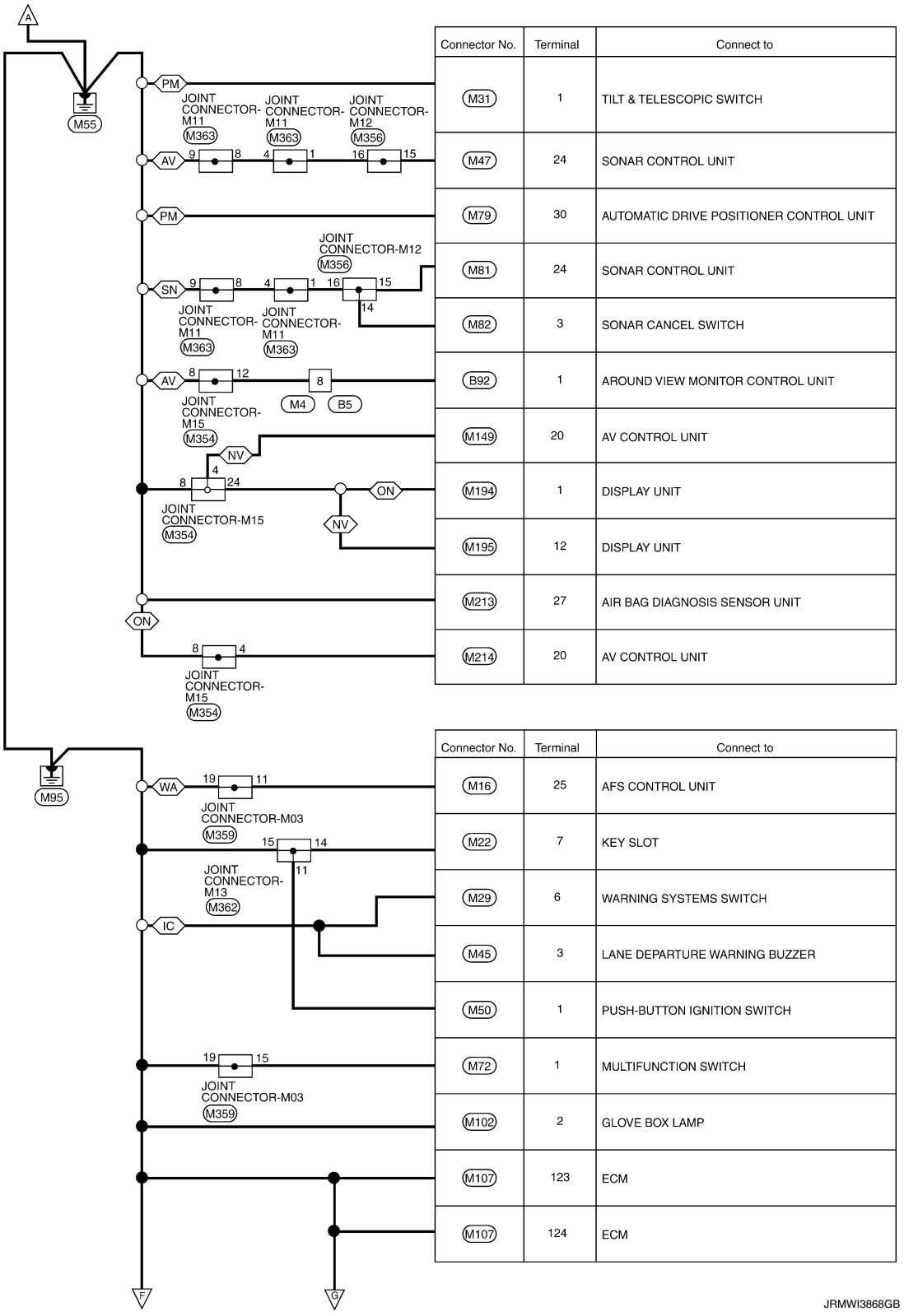

Connector No.	Terminal	Connect to
M31	1	TILT & TELESCOPIC SWITCH
M47	24	SONAR CONTROL UNIT
M79	30	AUTOMATIC DRIVE POSITIONER CONTROL UNIT
M81	24	SONAR CONTROL UNIT
M82	3	SONAR CANCEL SWITCH
B92	1	AROUND VIEW MONITOR CONTROL UNIT
M149	20	AV CONTROL UNIT
M194	1	DISPLAY UNIT
M195	12	DISPLAY UNIT
M213	27	AIR BAG DIAGNOSIS SENSOR UNIT
M214	20	AV CONTROL UNIT

Connector No.	Terminal	Connect to
M16	25	AFS CONTROL UNIT
M22	7	KEY SLOT
M29	6	WARNING SYSTEMS SWITCH
M45	3	LANE DEPARTURE WARNING BUZZER
M50	1	PUSH-BUTTON IGNITION SWITCH
M72	1	MULTIFUNCTION SWITCH
M102	2	GLOVE BOX LAMP
M107	123	ECM
M107	124	ECM

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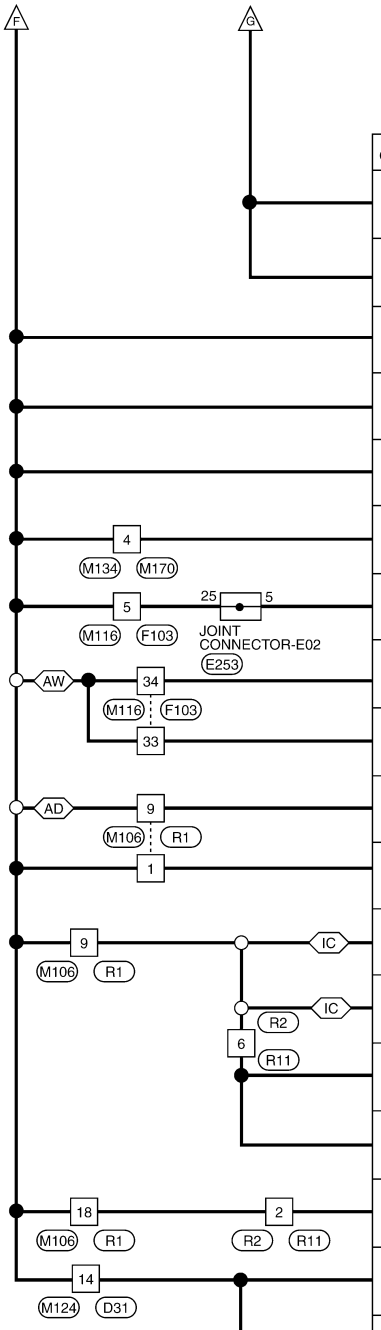

Connector No.	Terminal	Connect to
M107	127	ECM
M107	128	ECM
M109	3	BLOWER MOTOR
M119	13	BCM (BODY CONTROL MODULE)
M137	4	A/T SHIFT SELECTOR
M176	2	SNOW MODE SWITCH
F101	8	ECM
F108	10	AWD CONTROL UNIT
F108	11	AWD CONTROL UNIT
R3	8	AUTO ANTI-DAZZLING INSIDE MIRROR
R4	10	SUNROOF MOTOR ASSEMBLY
R10	1	LANE CAMERA UNIT
R10	5	LANE CAMERA UNIT
R12	1	VANITY MIRROR LAMP LH
R13	1	VANITY MIRROR LAMP RH
R16	2	SUNROOF SWITCH
D33	19	DOOR MIRROR (PASSENGER SIDE)
D38	11	FRONT POWER WINDOW SWITCH (PASSENGER SIDE)
D43	2	FRONT OUTSIDE HANDLE RH (REQUEST SWITCH)

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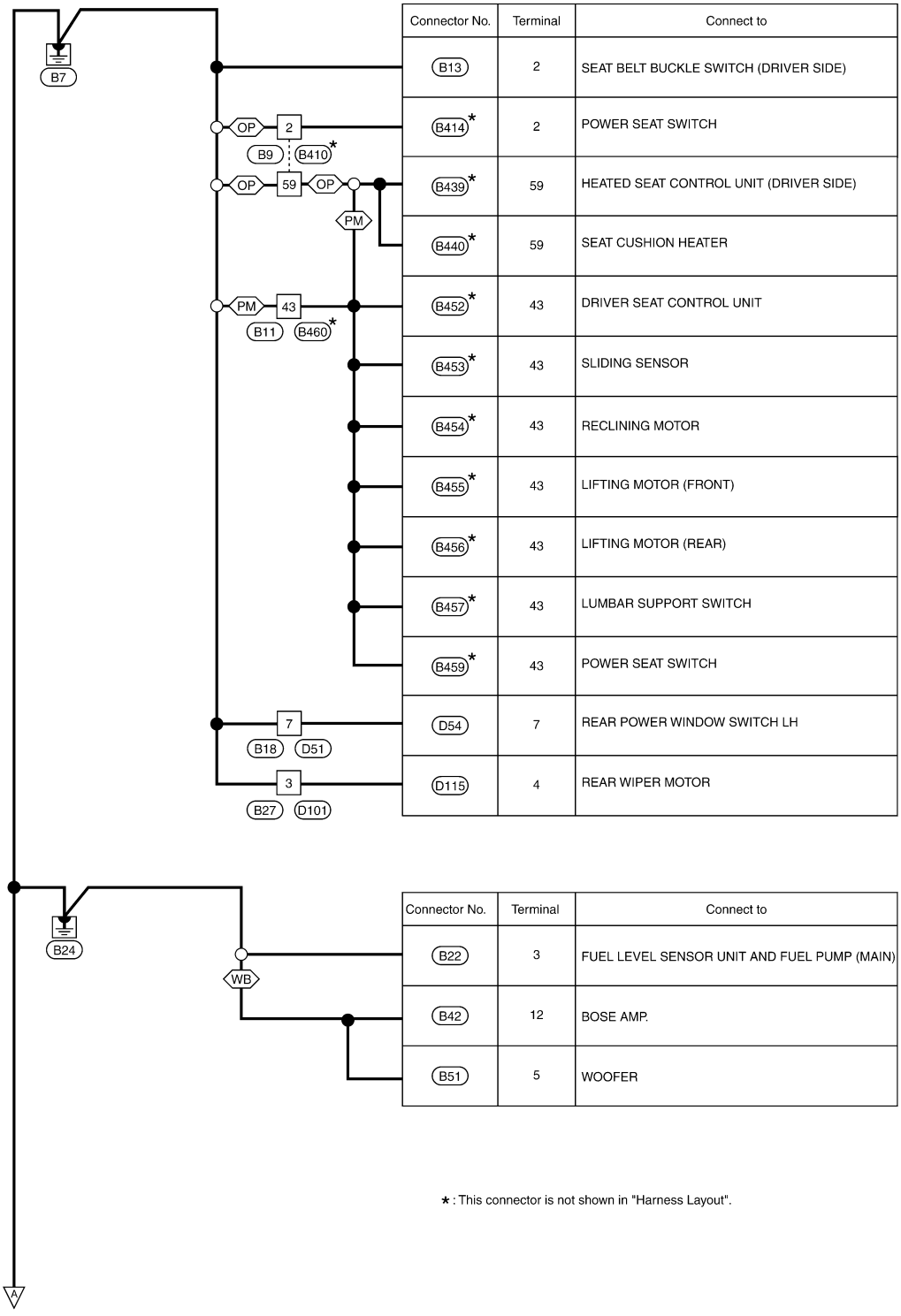
Body Harness

INFOID:0000000012169000

BODY HARNESS

OP : Without automatic drive positioner
PM : With automatic drive positioner

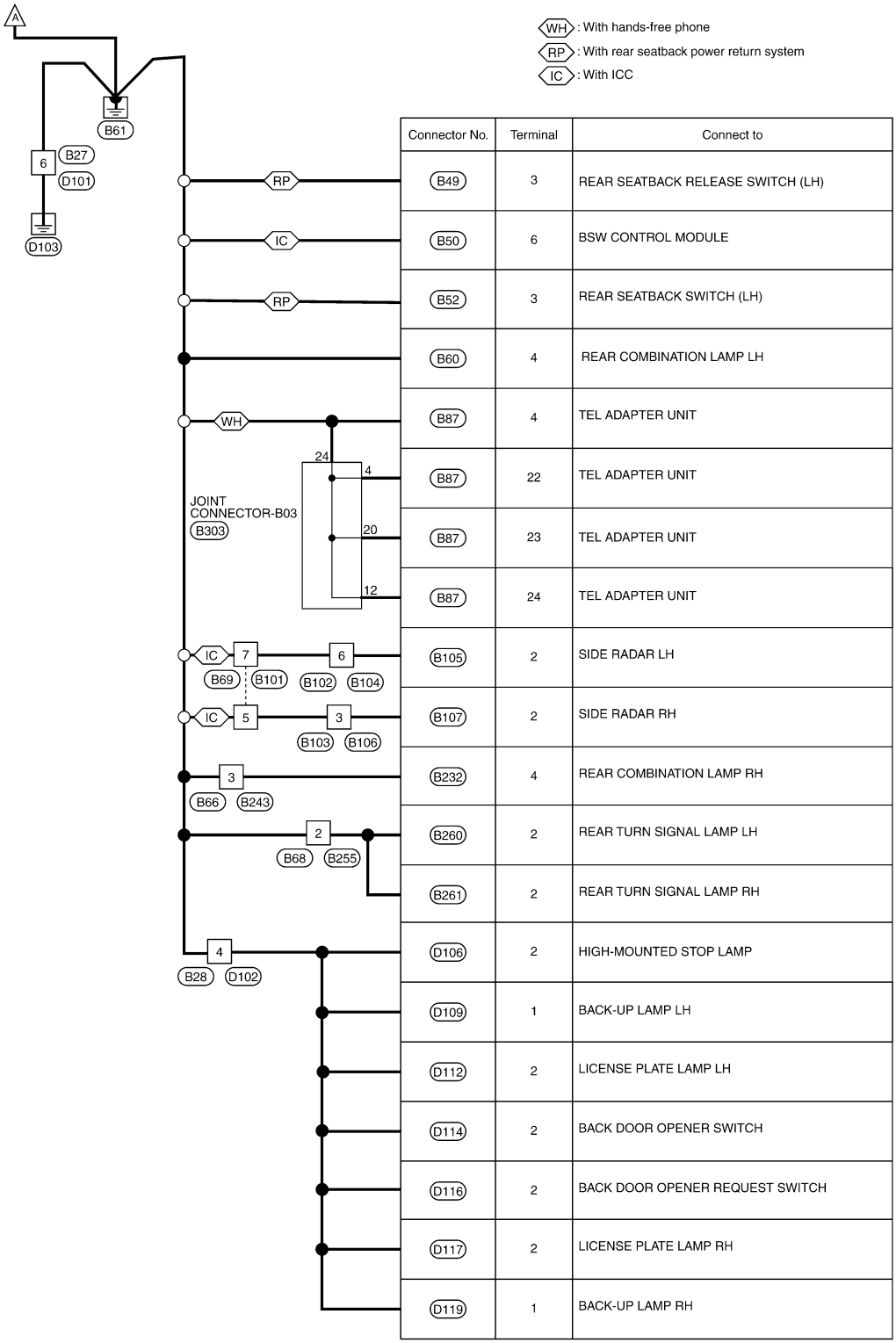


Connector No.	Terminal	Connect to
B13	2	SEAT BELT BUCKLE SWITCH (DRIVER SIDE)
B414*	2	POWER SEAT SWITCH
B439*	59	HEATED SEAT CONTROL UNIT (DRIVER SIDE)
B440*	59	SEAT CUSHION HEATER
B452*	43	DRIVER SEAT CONTROL UNIT
B453*	43	SLIDING SENSOR
B454*	43	RECLINING MOTOR
B455*	43	LIFTING MOTOR (FRONT)
B456*	43	LIFTING MOTOR (REAR)
B457*	43	LUMBAR SUPPORT SWITCH
B459*	43	POWER SEAT SWITCH
D54	7	REAR POWER WINDOW SWITCH LH
D115	4	REAR WIPER MOTOR

Connector No.	Terminal	Connect to
B22	3	FUEL LEVEL SENSOR UNIT AND FUEL PUMP (MAIN)
B42	12	BOSE AMP.
B51	5	WOOFER

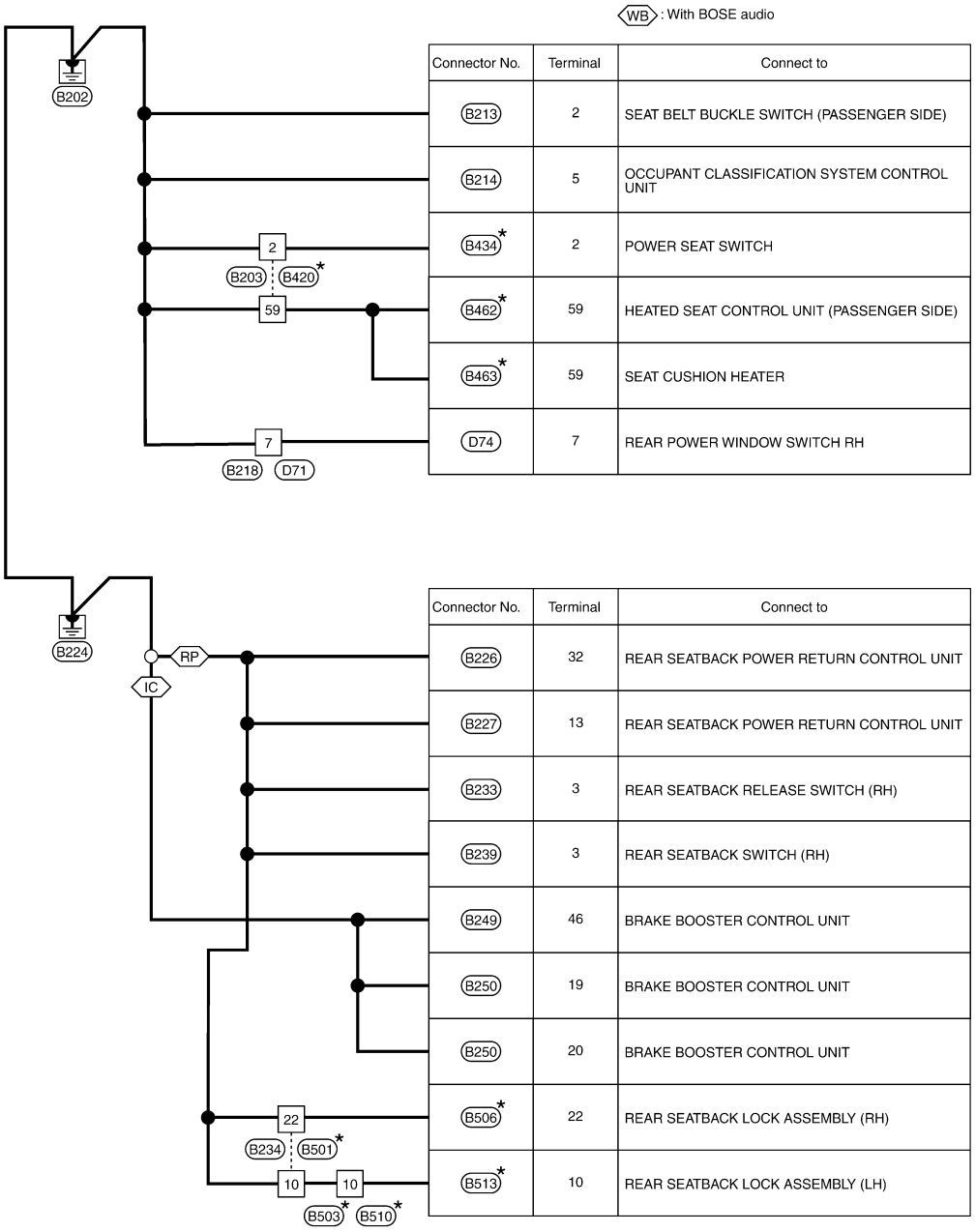
* : This connector is not shown in "Harness Layout".

JRMWI3873GB



Connector No.	Terminal	Connect to
B49	3	REAR SEATBACK RELEASE SWITCH (LH)
B50	6	BSW CONTROL MODULE
B52	3	REAR SEATBACK SWITCH (LH)
B60	4	REAR COMBINATION LAMP LH
B87	4	TEL ADAPTER UNIT
B87	22	TEL ADAPTER UNIT
B87	23	TEL ADAPTER UNIT
B87	24	TEL ADAPTER UNIT
B105	2	SIDE RADAR LH
B107	2	SIDE RADAR RH
B232	4	REAR COMBINATION LAMP RH
B260	2	REAR TURN SIGNAL LAMP LH
B261	2	REAR TURN SIGNAL LAMP RH
D106	2	HIGH-MOUNTED STOP LAMP
D109	1	BACK-UP LAMP LH
D112	2	LICENSE PLATE LAMP LH
D114	2	BACK DOOR OPENER SWITCH
D116	2	BACK DOOR OPENER REQUEST SWITCH
D117	2	LICENSE PLATE LAMP RH
D119	1	BACK-UP LAMP RH

JRMWI3874GB



Connector No.	Terminal	Connect to
B213	2	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
B214	5	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
B434*	2	POWER SEAT SWITCH
B462*	59	HEATED SEAT CONTROL UNIT (PASSENGER SIDE)
B463*	59	SEAT CUSHION HEATER
D74	7	REAR POWER WINDOW SWITCH RH

Connector No.	Terminal	Connect to
B226	32	REAR SEATBACK POWER RETURN CONTROL UNIT
B227	13	REAR SEATBACK POWER RETURN CONTROL UNIT
B233	3	REAR SEATBACK RELEASE SWITCH (RH)
B239	3	REAR SEATBACK SWITCH (RH)
B249	46	BRAKE BOOSTER CONTROL UNIT
B250	19	BRAKE BOOSTER CONTROL UNIT
B250	20	BRAKE BOOSTER CONTROL UNIT
B506*	22	REAR SEATBACK LOCK ASSEMBLY (RH)
B513*	10	REAR SEATBACK LOCK ASSEMBLY (LH)

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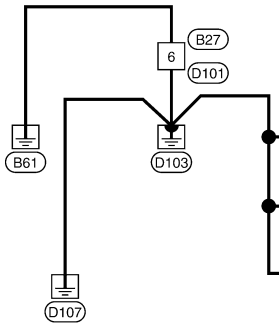
Door Harness

INFOID:0000000012169001

DOOR HARNESS



Connector No.	Terminal	Connect to
D113	2	BACK DOOR LOCK ASSEMBLY
D113	4	BACK DOOR LOCK ASSEMBLY
D120	2	REAR WINDOW DEFOGGER

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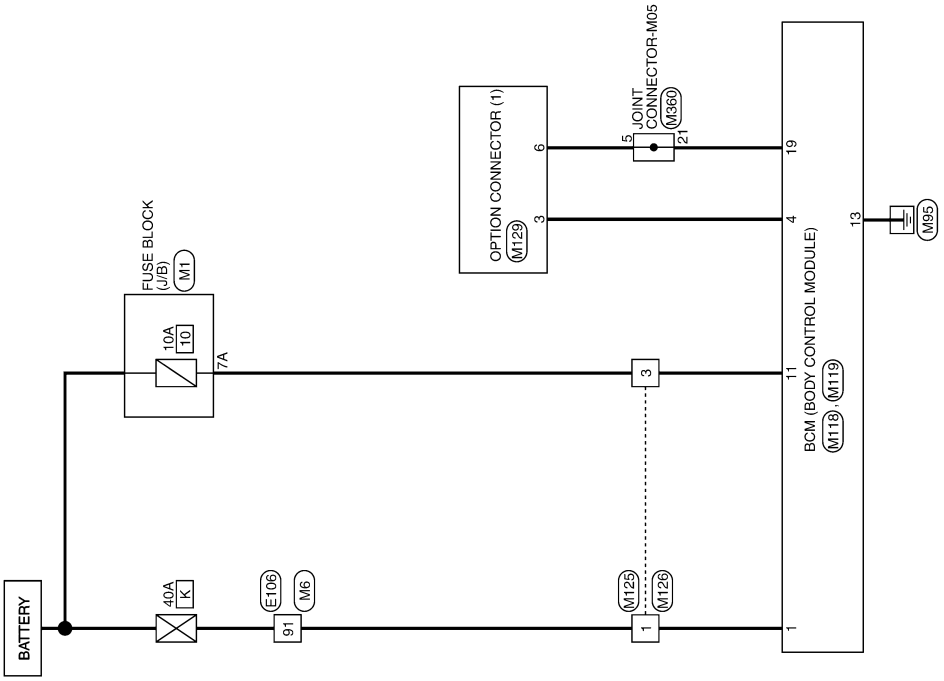
OPTION HARNESS

Wiring Diagram - OPTION HARNESS -

INFOID:0000000012169002



OPTION HARNESS

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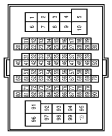
OPTION HARNESS

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

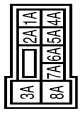
H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	R	–
2	W	–
3	B	–
4	GR	–
5	GR	–
6	G	–
7	L	–
8	Y	–
9	BR	–
10	BG	–
11	SB	–
12	BG	–
13	L	–
14	R	–
15	P	–
16	V	–
17	SB	–
18	V	–
20	BG	–
21	L	–
22	V	–
23	G	–
24	P	–
25	Y	–
26	V	–
27	W	–
28	G	–
31	BG	–
32	W	–
33	B	–
34	R	–
35	G	–
36	SHIELD	–
37	V	–
38	BR	–
39	BG	–
41	W	–
42	G	–
43	BR	–
45	W	–
49	L	–
50	P	–
51	L	–
54	BG	–
57	BR	–
59	W	–
60	LG	–
61	G	–
62	SB	–
63	W	–
64	B	–
65	G	–
66	R	–
67	SHIELD	–
68	Y	–
69	LG	–
70	W	–
71	R	–
72	Y	–
73	B	–
74	BR	– [With ICC]
74	L	– [Without ICC]
75	G	– [With ICC]
75	W	– [Without ICC]
76	W	– [With ICC]
76	Y	– [Without ICC]
77	P	– [With ICC]
77	R	– [Without ICC]
78	BR	– [With ICC]
78	L	– [Without ICC]
79	L	– [With ICC]
79	Y	– [Without ICC]
80	SB	–
81	R	–
82	SB	–
83	BG	–
84	G	–
85	L	–
86	P	–
87	V	–
89	GR	–
90	SHIELD	–
91	W	–
92	Y	–
93	V	–
94	LG	–
95	BG	–
96	P	–
97	R	–
98	SHIELD	–
99	L	–
100	P	–

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

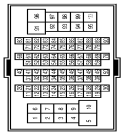
H.S.



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

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

H.S.



Terminal No.	Color Of Wire	Signal Name [Specification]
1	W	– [With NAVI]
1	Y	– [Without NAVI]
2	B	– [Without NAVI]
2	R	– [With NAVI]
3	B	– [With NAVI]
3	G	– [Without NAVI]
4	SHIELD	–
5	G	–
6	R	–
7	W	–
8	Y	–
9	BR	–
10	R	–
11	BR	–
12	BG	–
13	L	–
14	R	–
15	P	–
16	V	–
17	SB	–
18	V	–
20	BG	–
21	L	–
22	W	–
23	P	–
24	BR	–
25	Y	–
26	V	–
27	G	–
28	G	–
31	L	–
32	G	–
33	B	–
34	W	–
35	R	–
36	SHIELD	–
37	V	–
38	BG	–
39	BR	–
41	W	–
42	BG	–
43	BG	–
45	W	–
49	L	–
50	P	–
51	BR	–
54	Y	–

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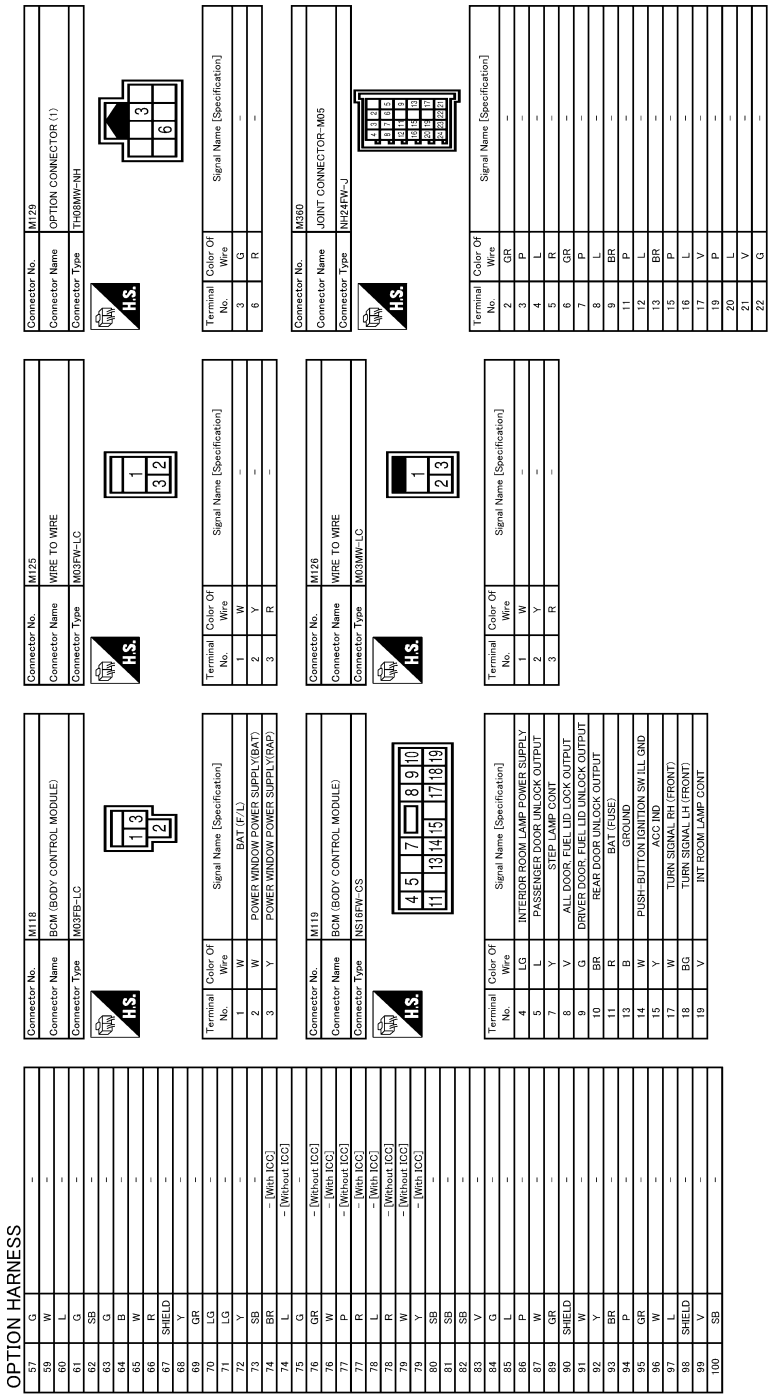
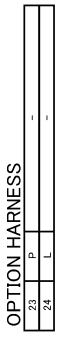


JRMWI3794GB



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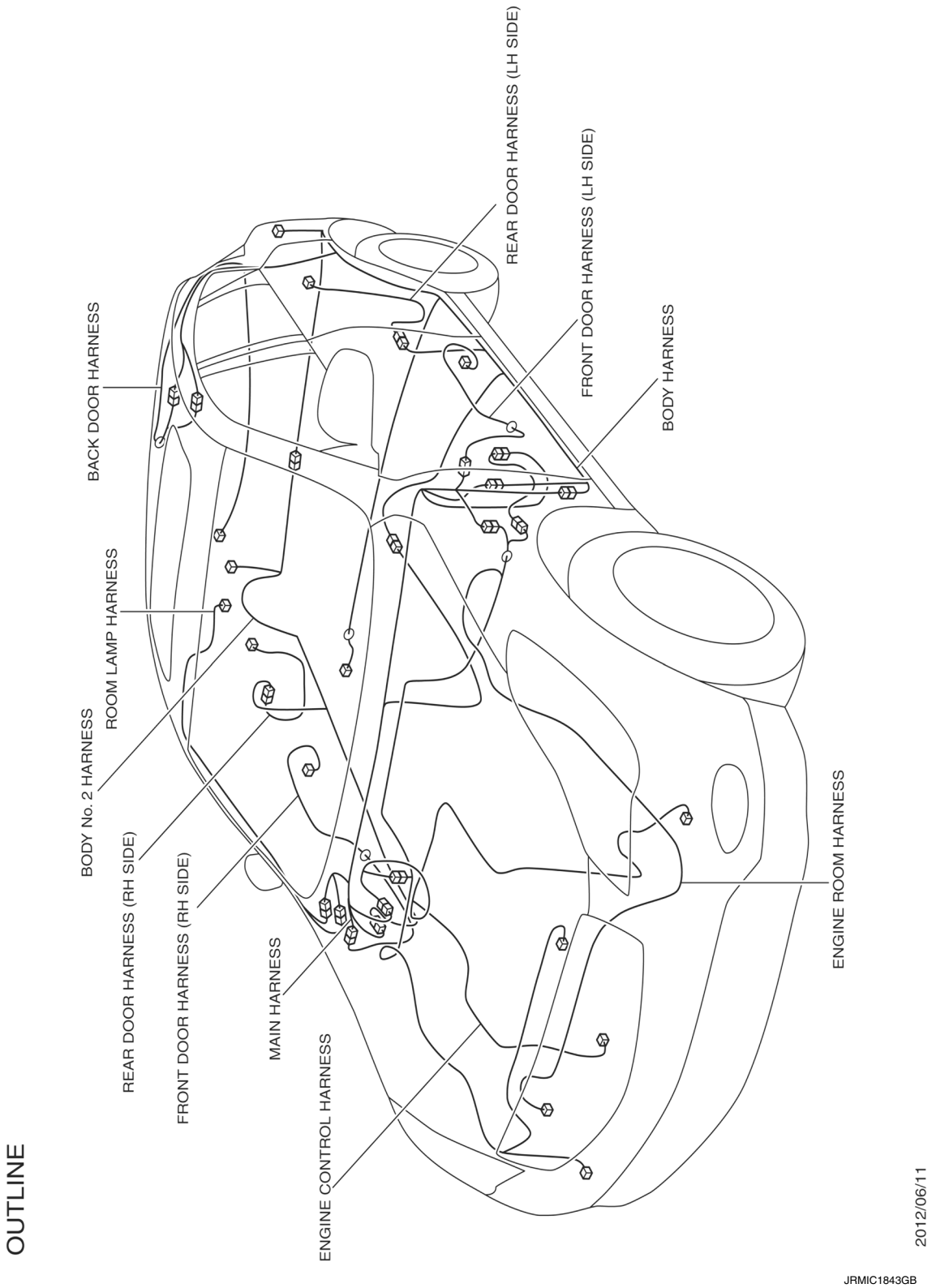
HARNESS LAYOUT

Outline

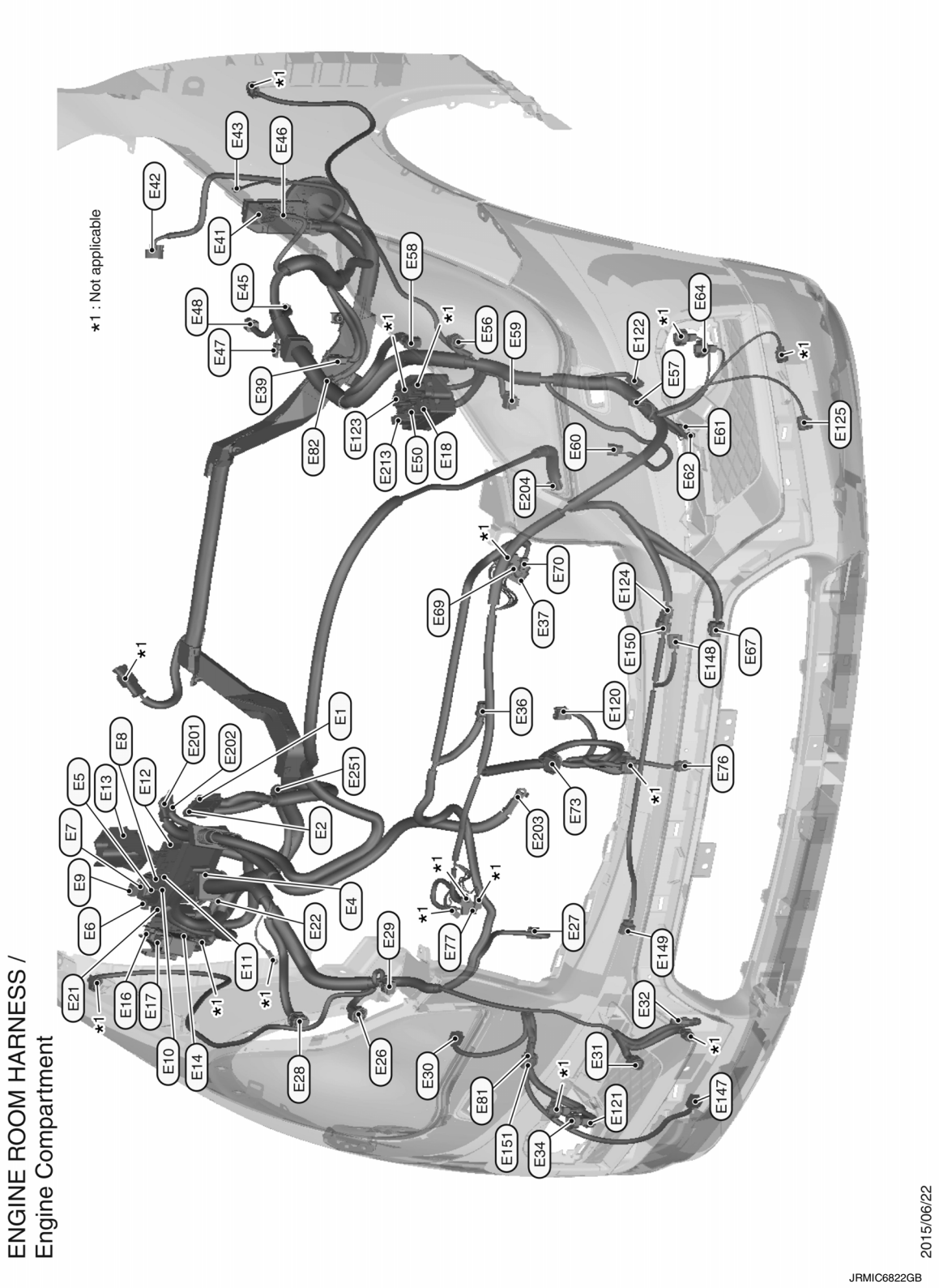
INFOID:0000000012169003



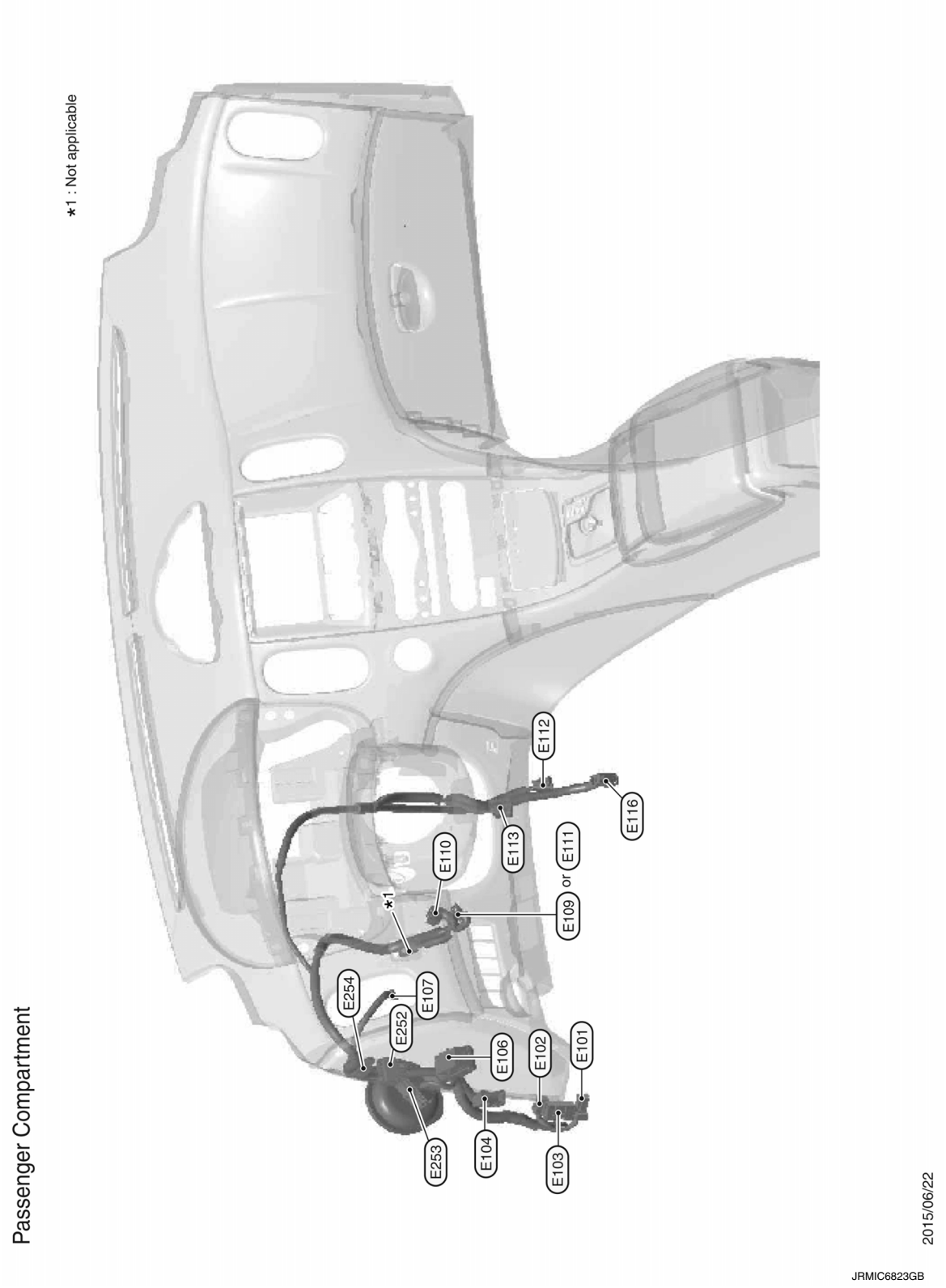
Engine Room Harness

INFOID:0000000012169004

ENGINE COMPARTMENT



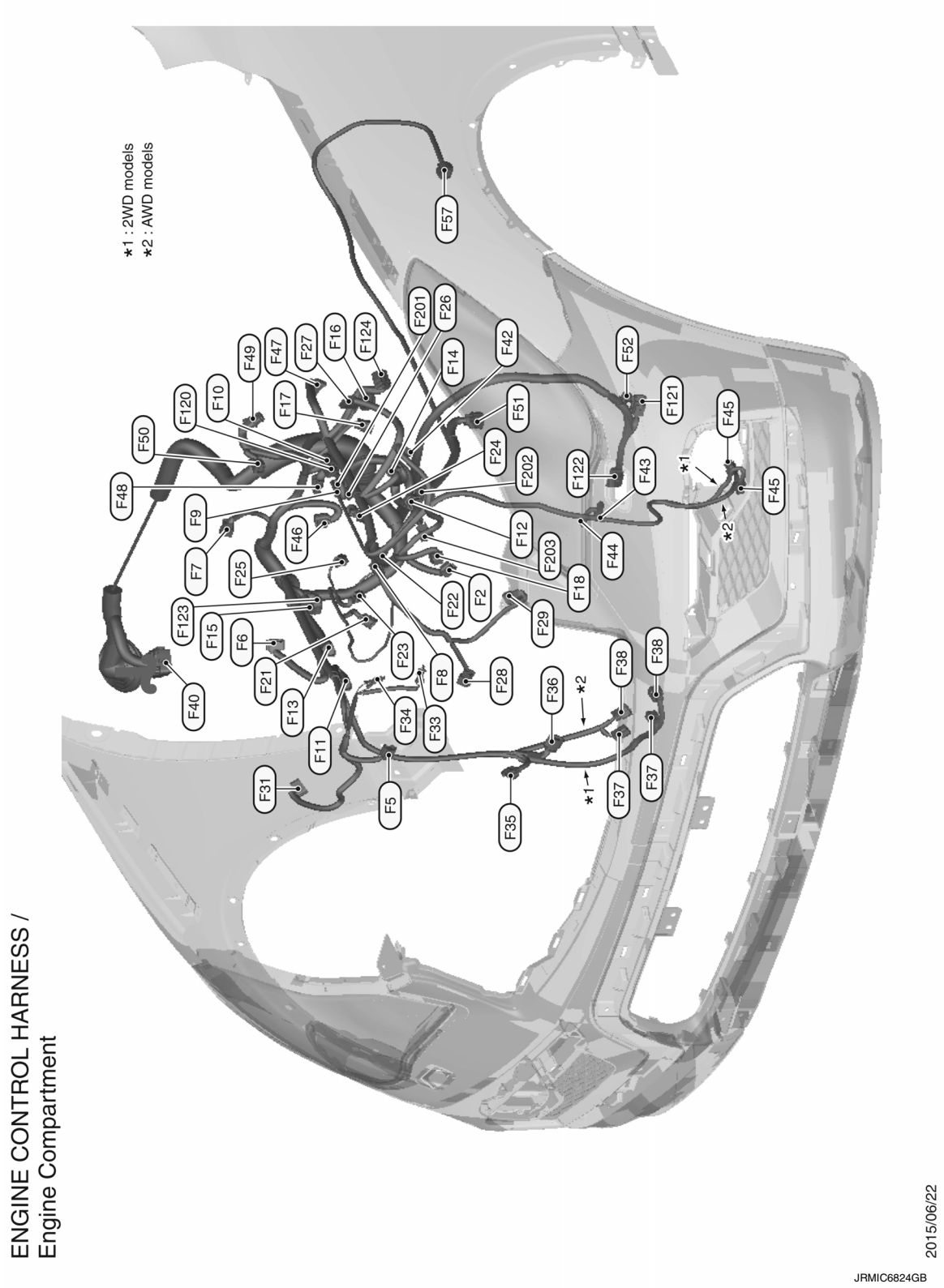
PASSENGER COMPARTMENT



Engine Control Harness

INFOID:0000000012169005

ENGINE COMPARTMENT

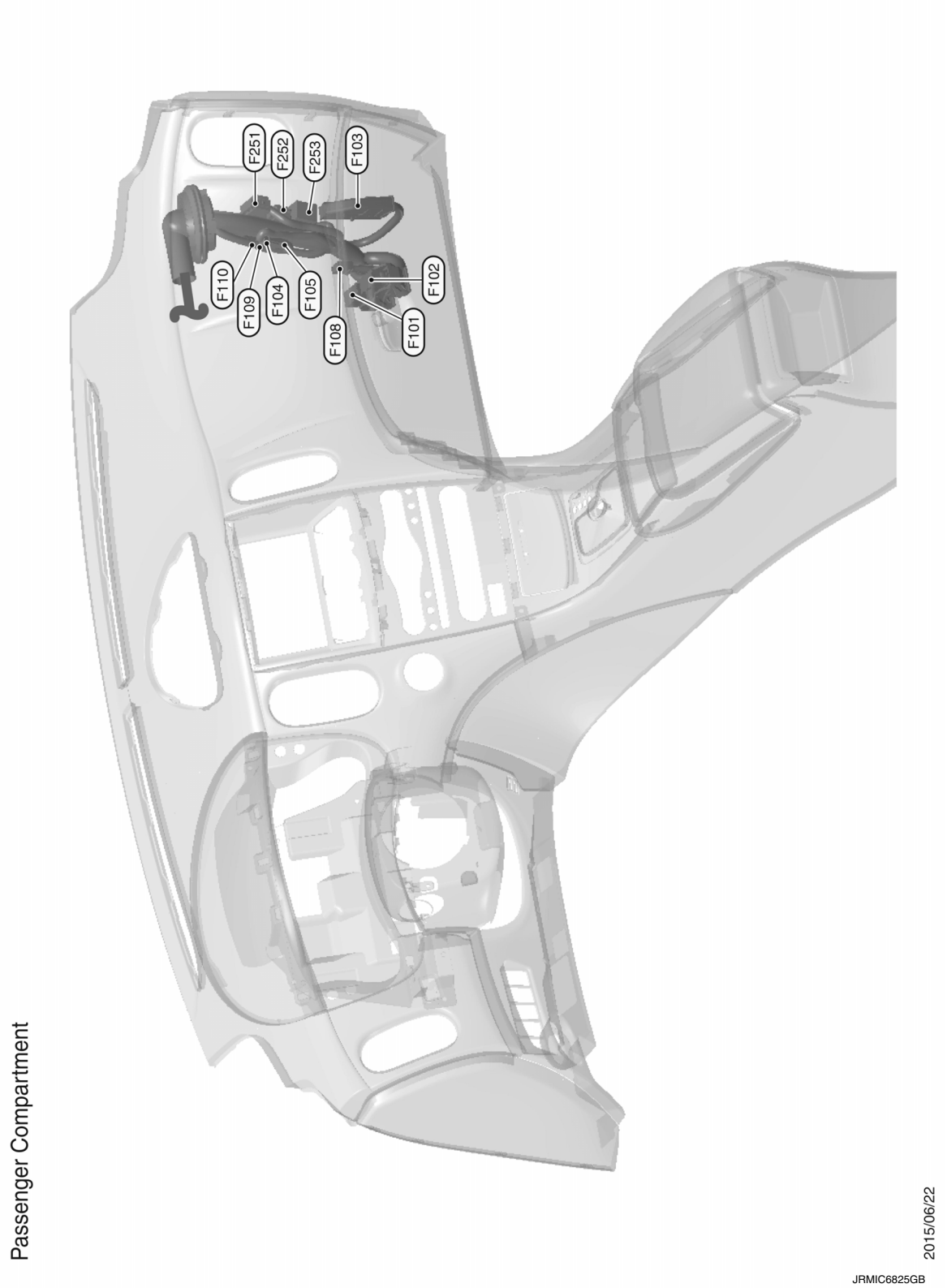


ENGINE CONTROL HARNESS /
Engine Compartment

2015/06/22

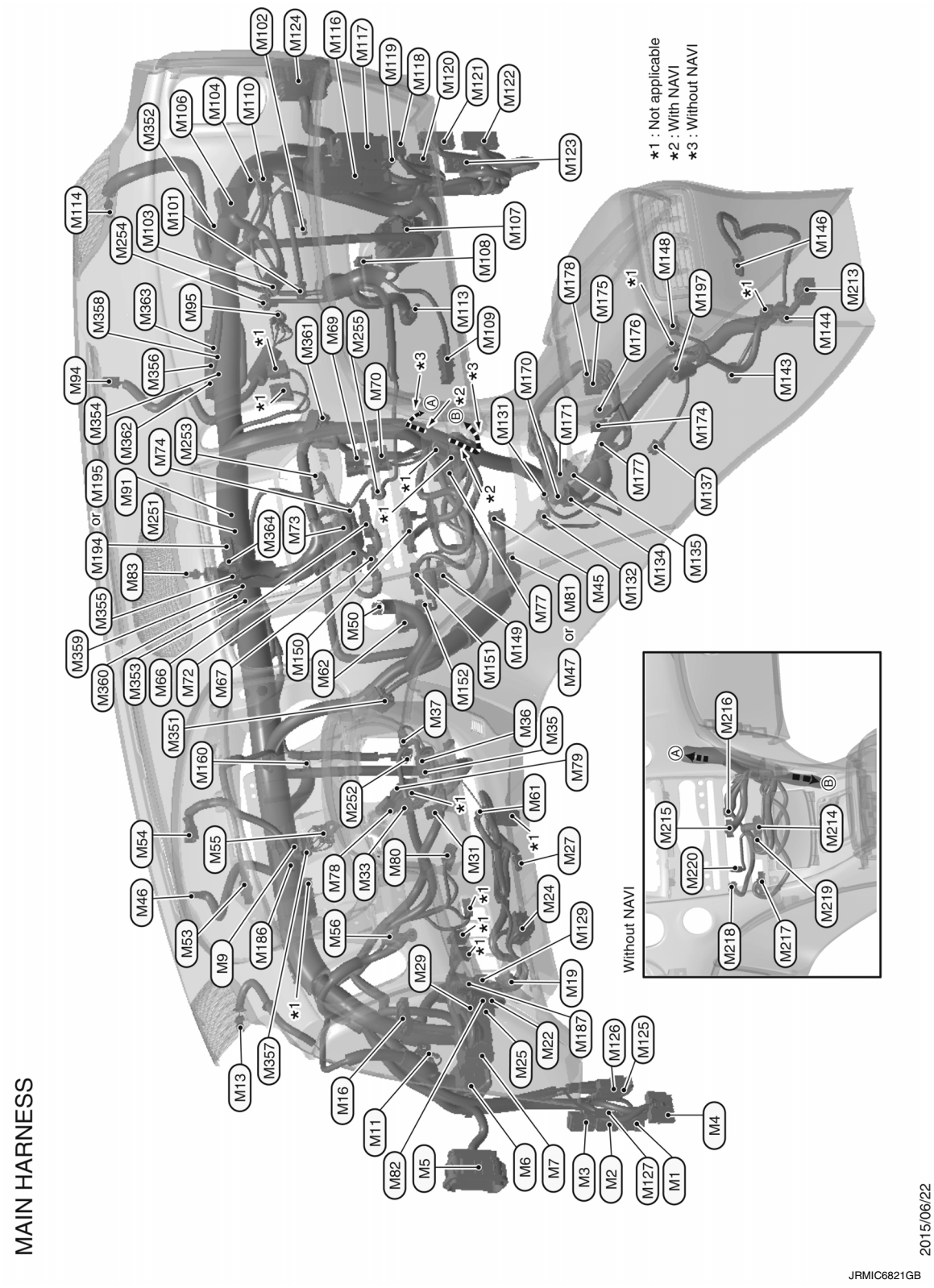
JRMIC6824GB

PASSENGER COMPARTMENT



Main Harness

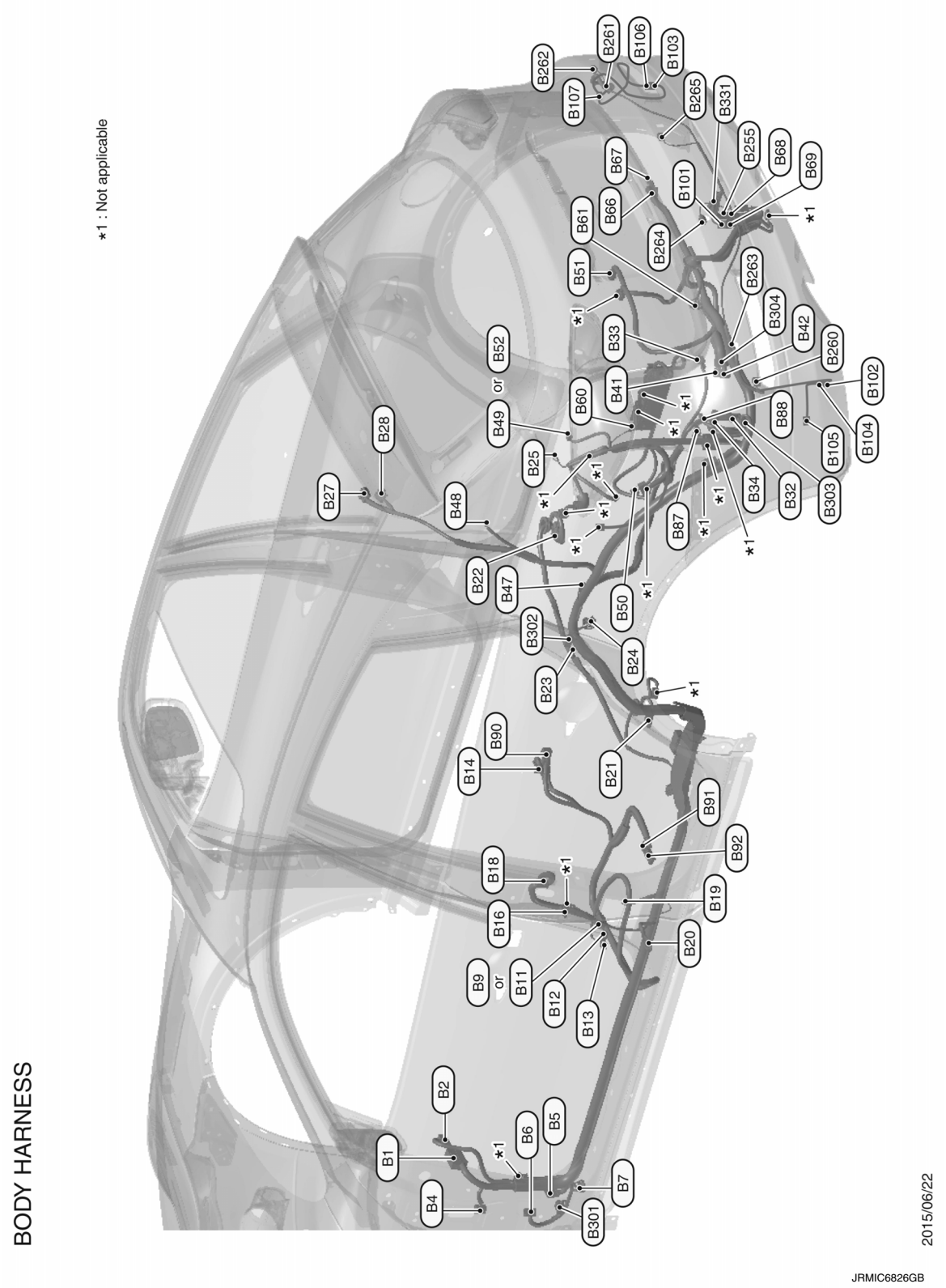
INFOID:0000000012169006



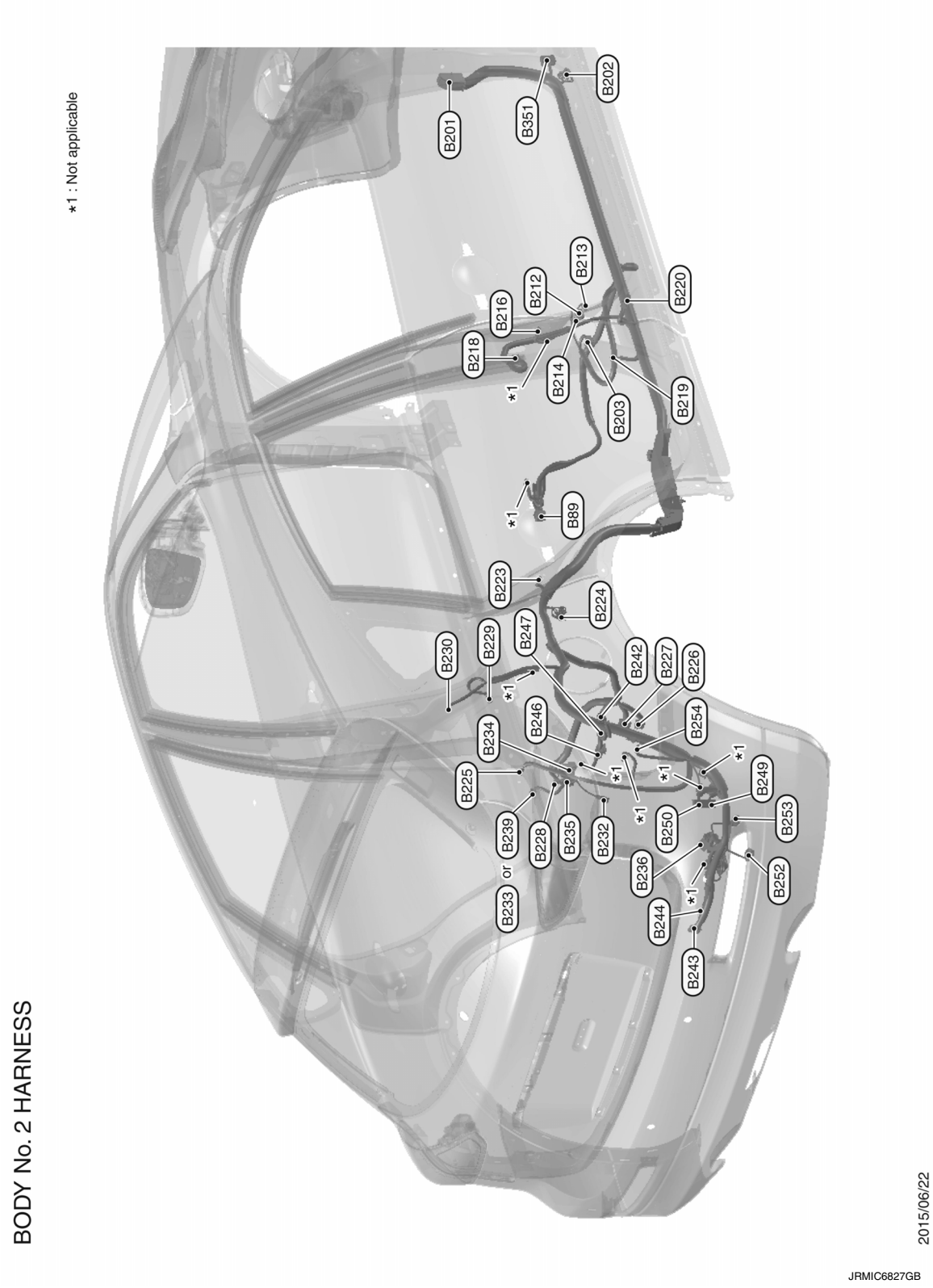
Body Harness

INFOID:0000000012169007

BODY HARNESS



BODY No. 2 HARNESS

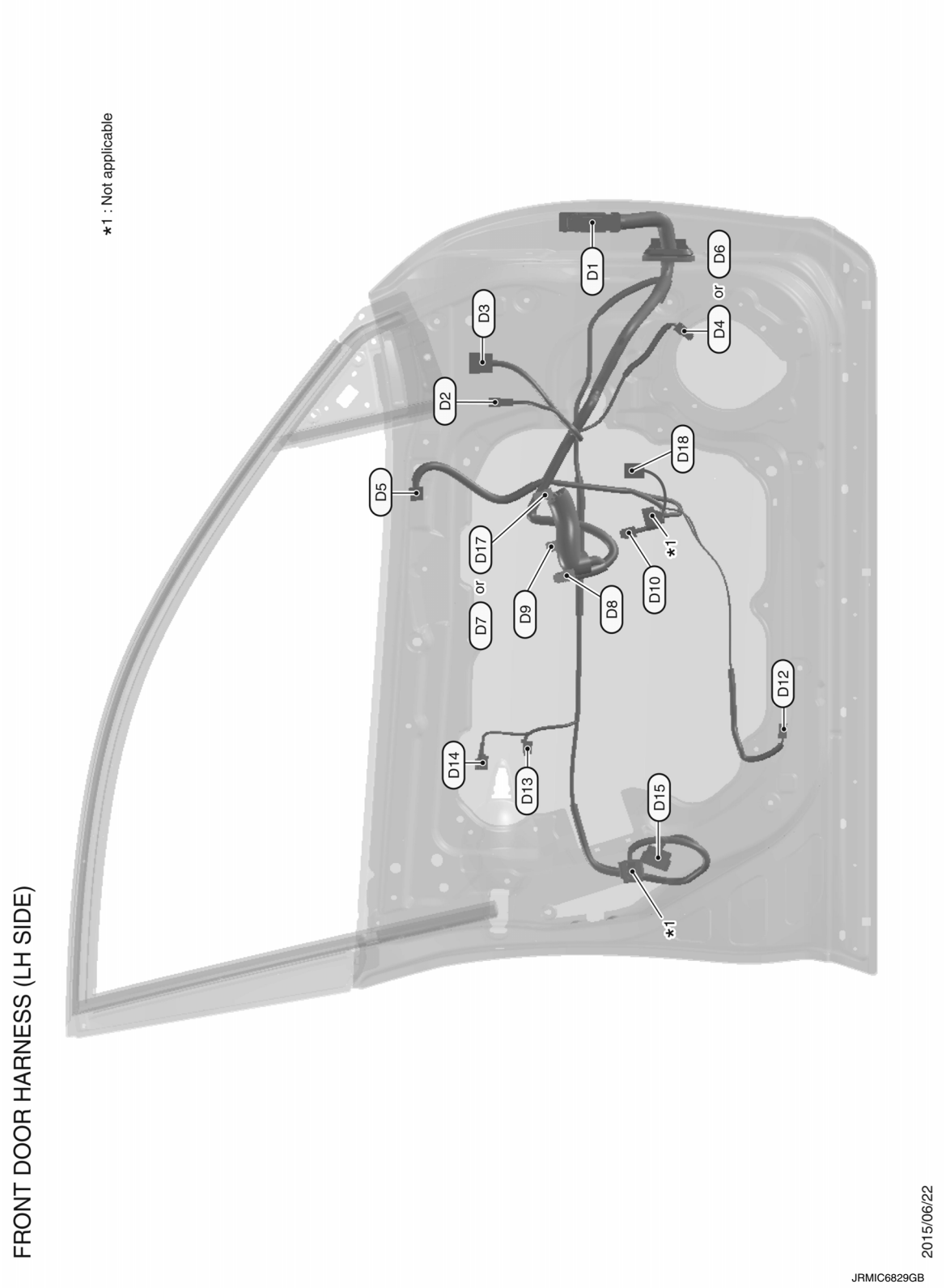


A B C D E F G H I J K L PG N O P

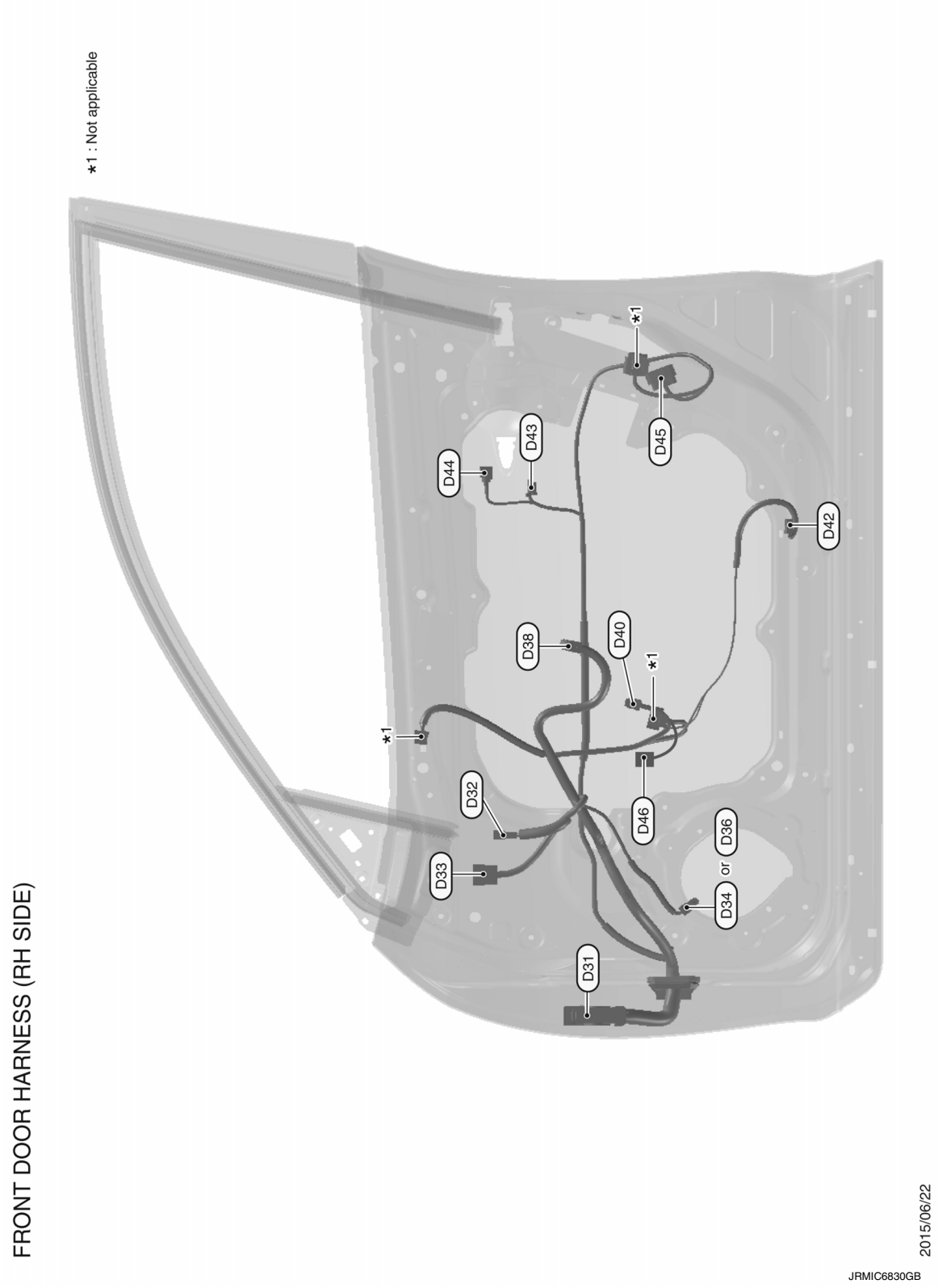
Door Harness

INFOID:0000000012169008

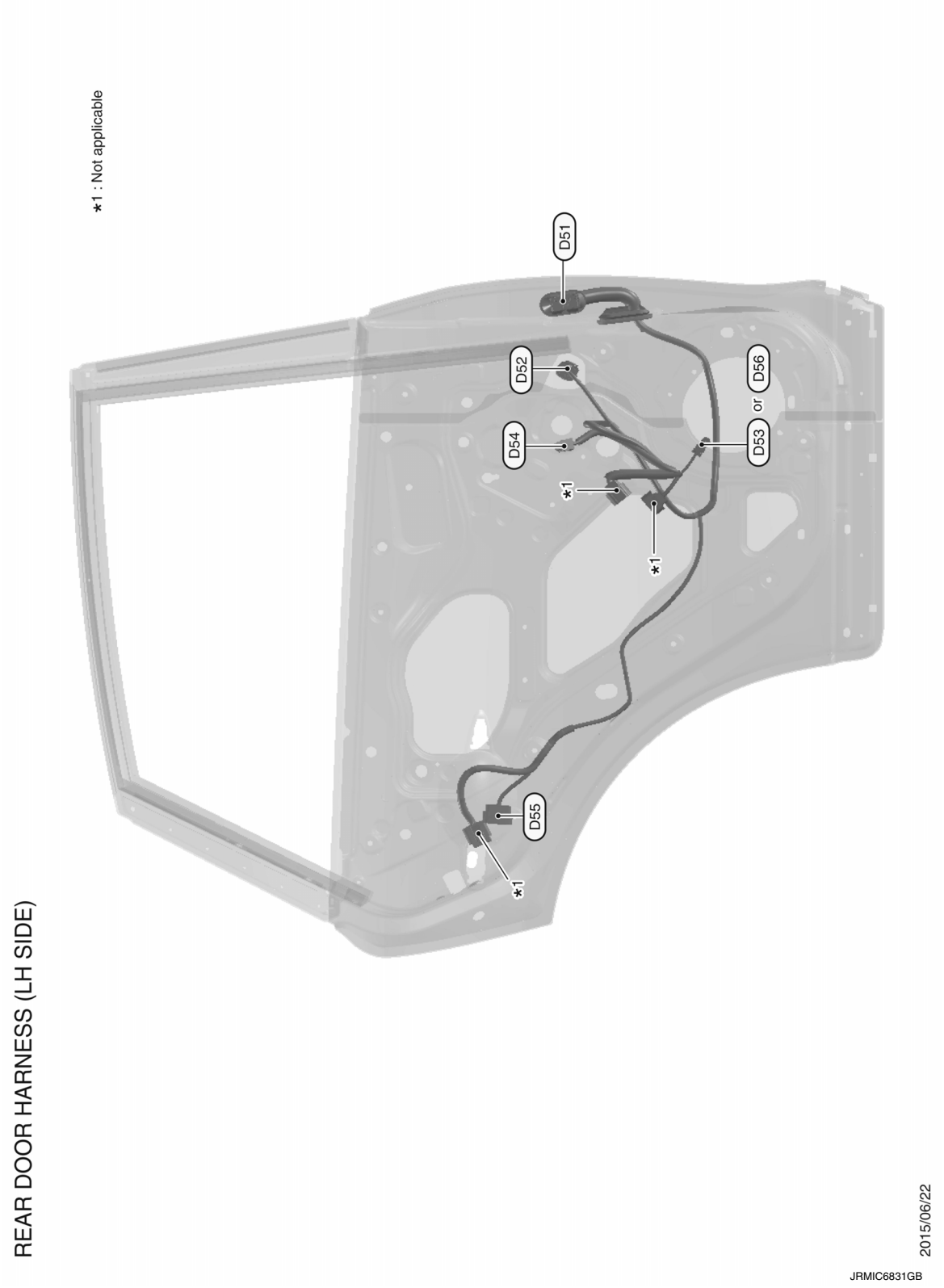
FRONT DOOR HARNESS (LH SIDE)



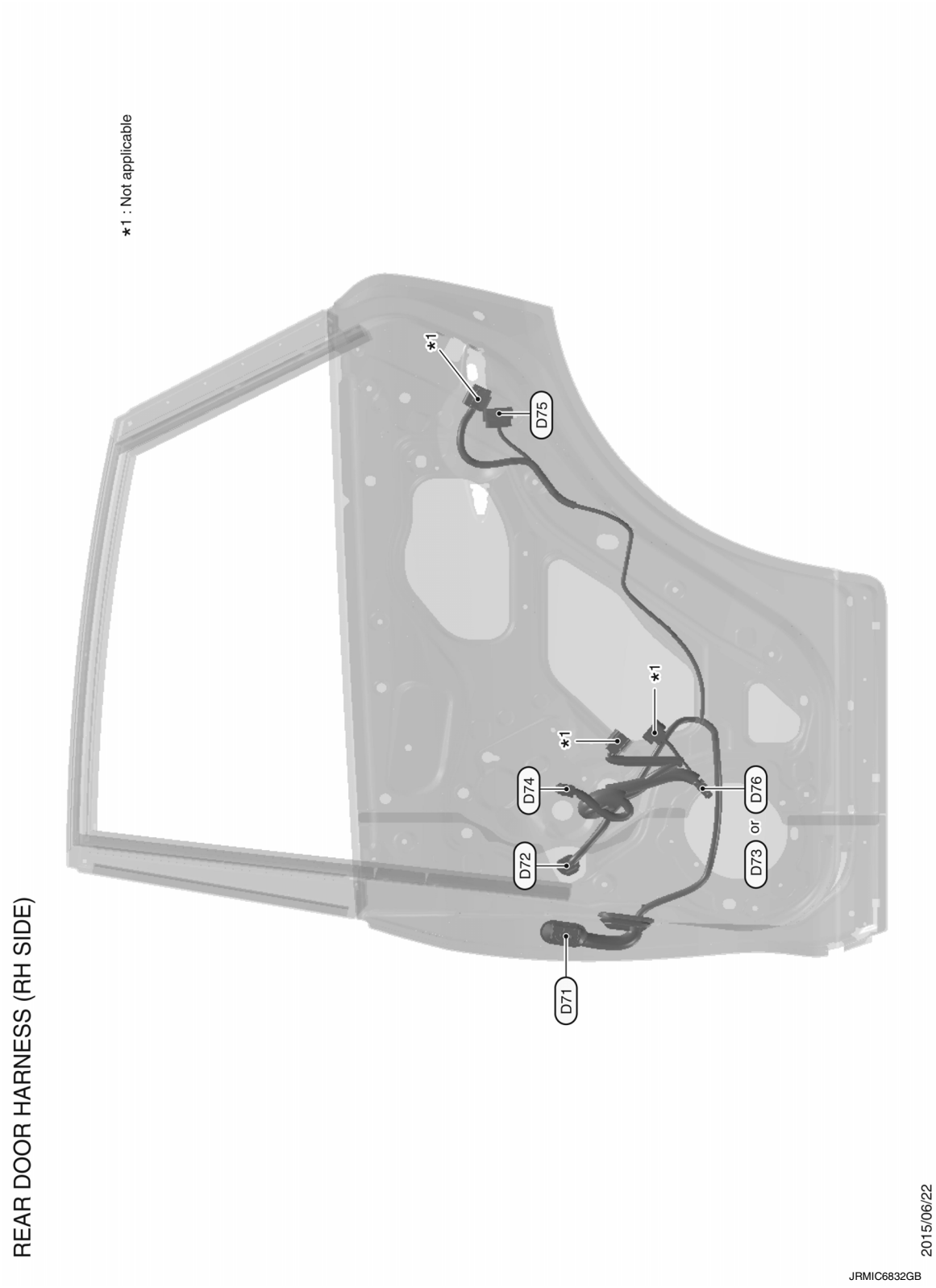
FRONT DOOR HARNESS (RH SIDE)



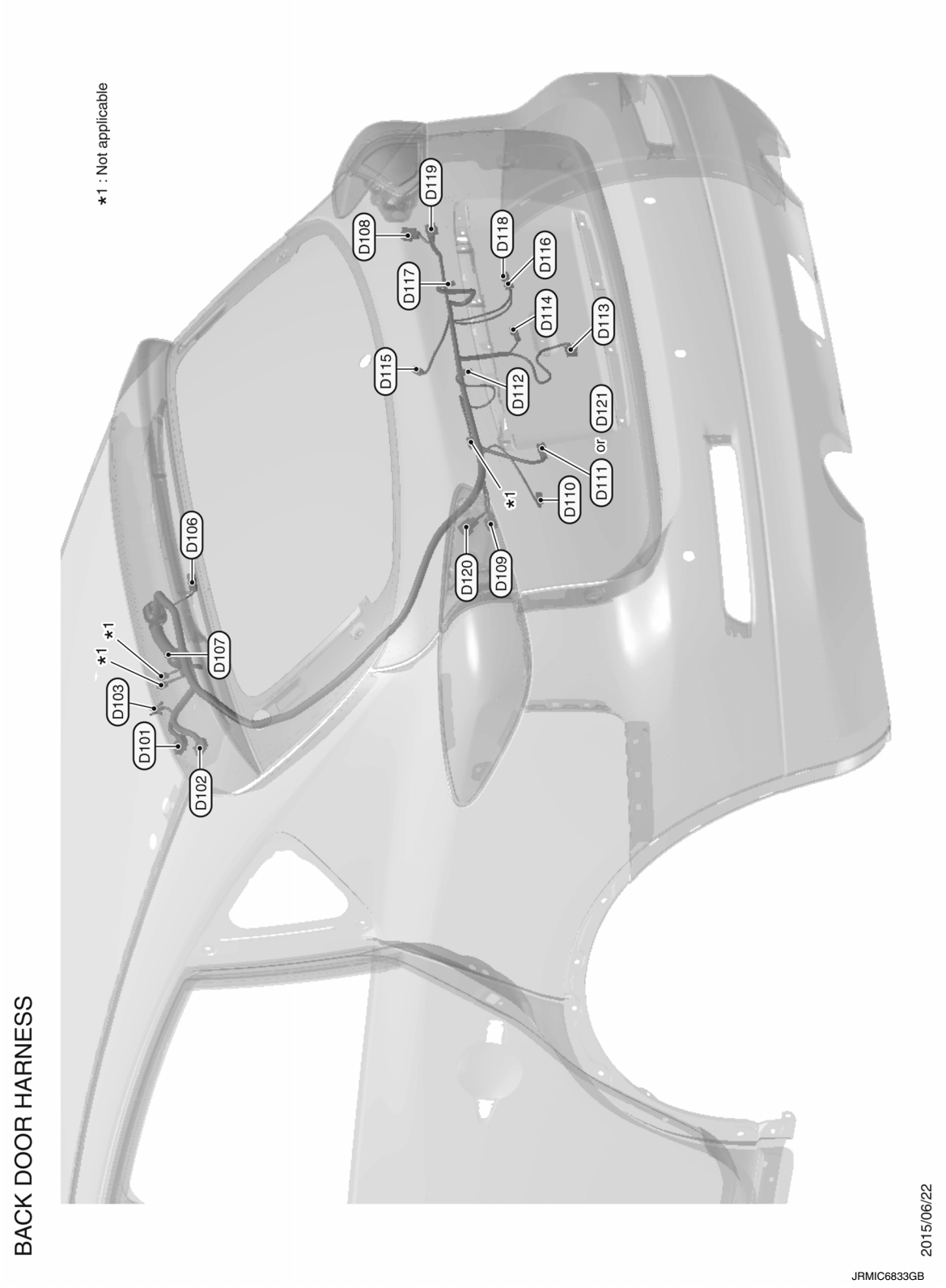
REAR DOOR HARNESS (LH SIDE)



REAR DOOR HARNESS (RH SIDE)

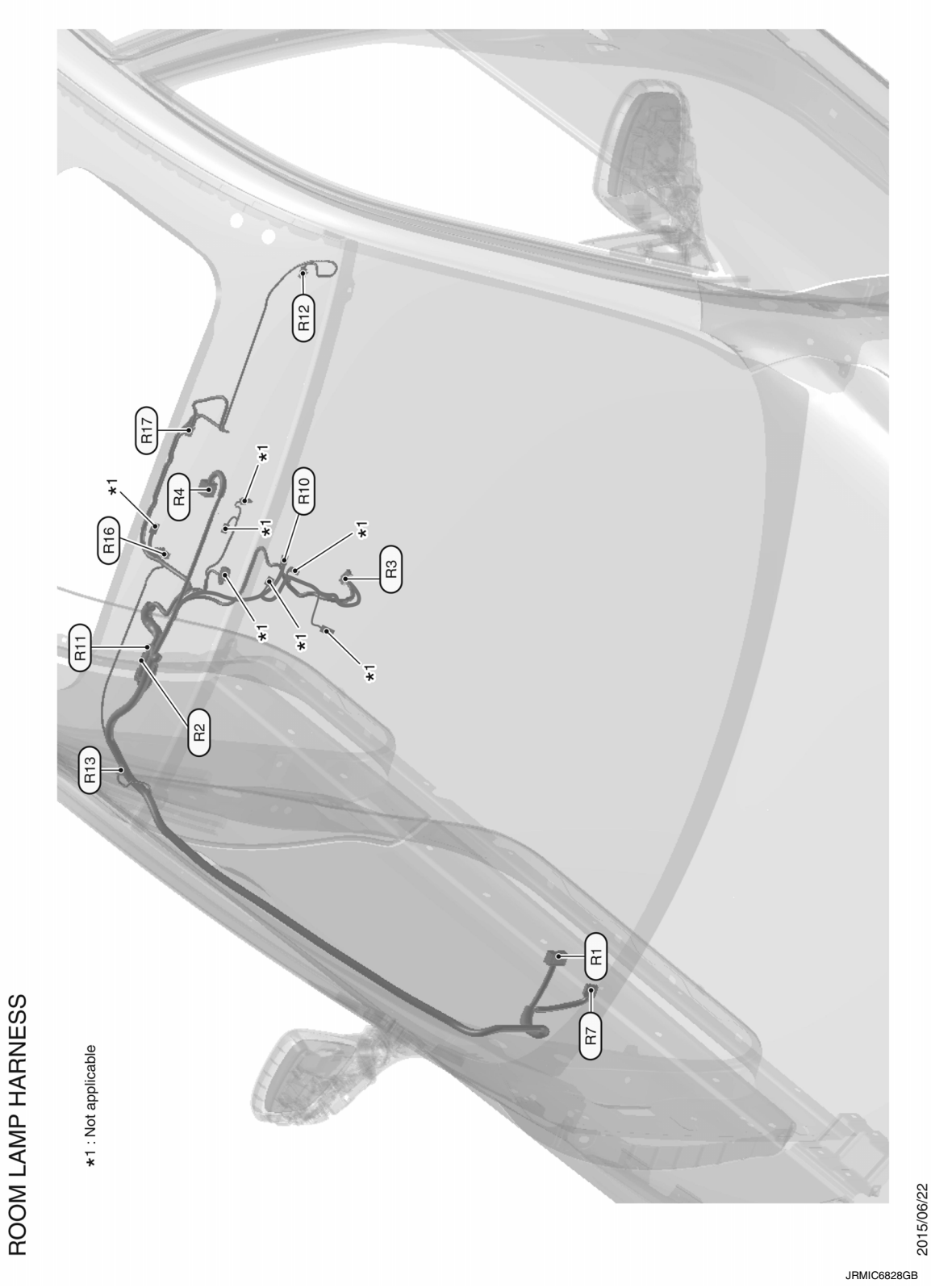


BACK DOOR HARNESS



Room Lamp Harness

INFOID:0000000012169009



HARNESS CONNECTOR

Description

INFOID:0000000012169010

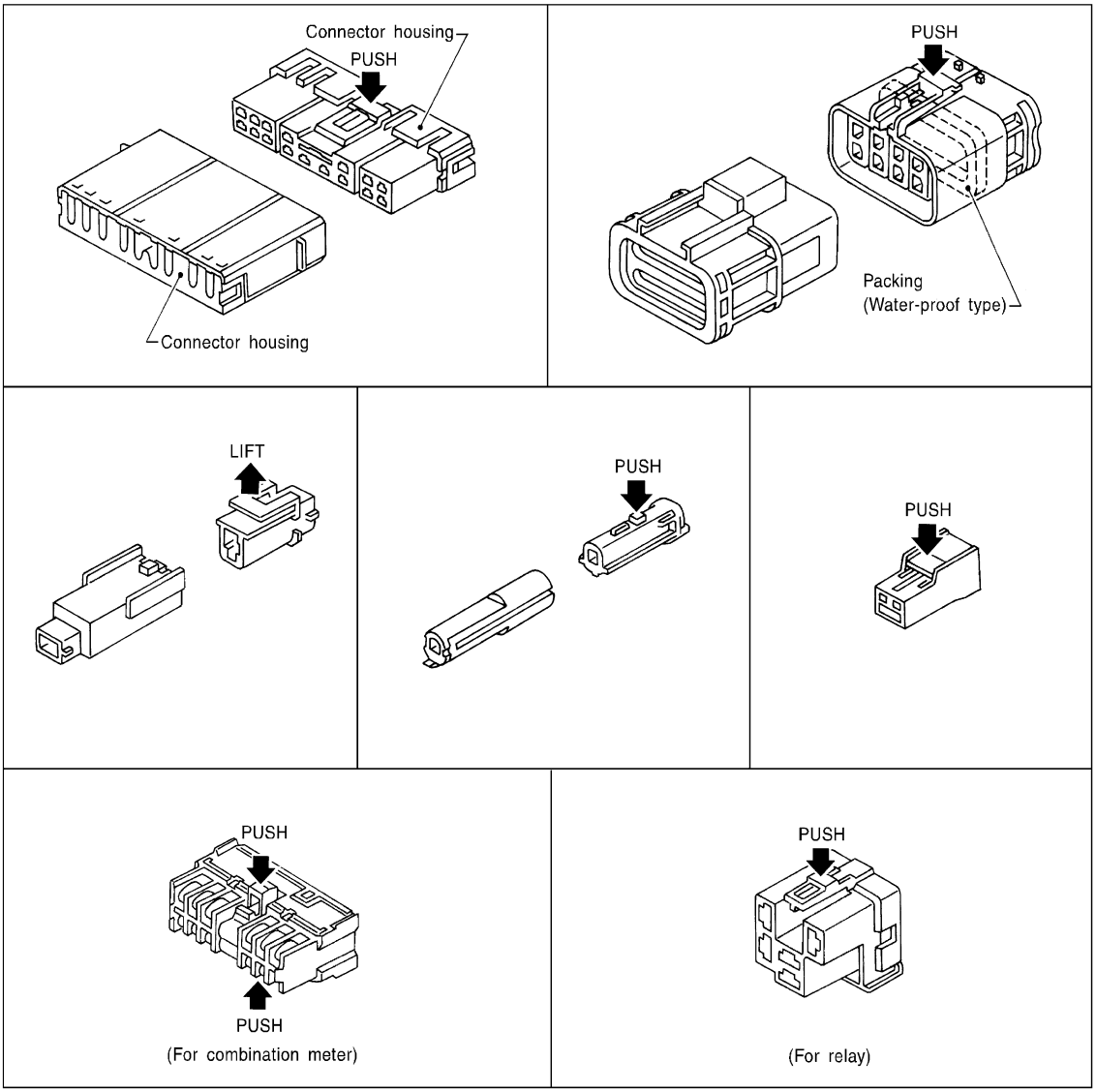
HARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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

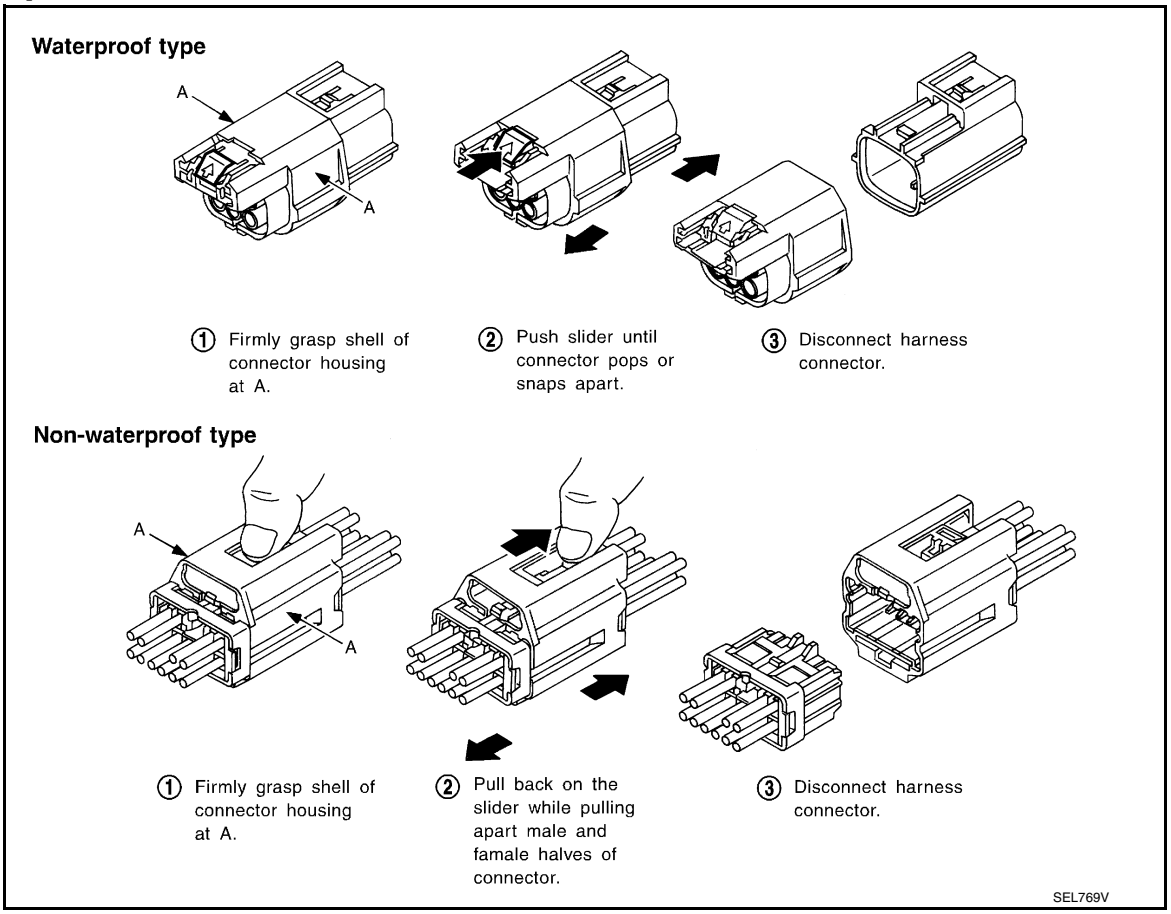
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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.

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]

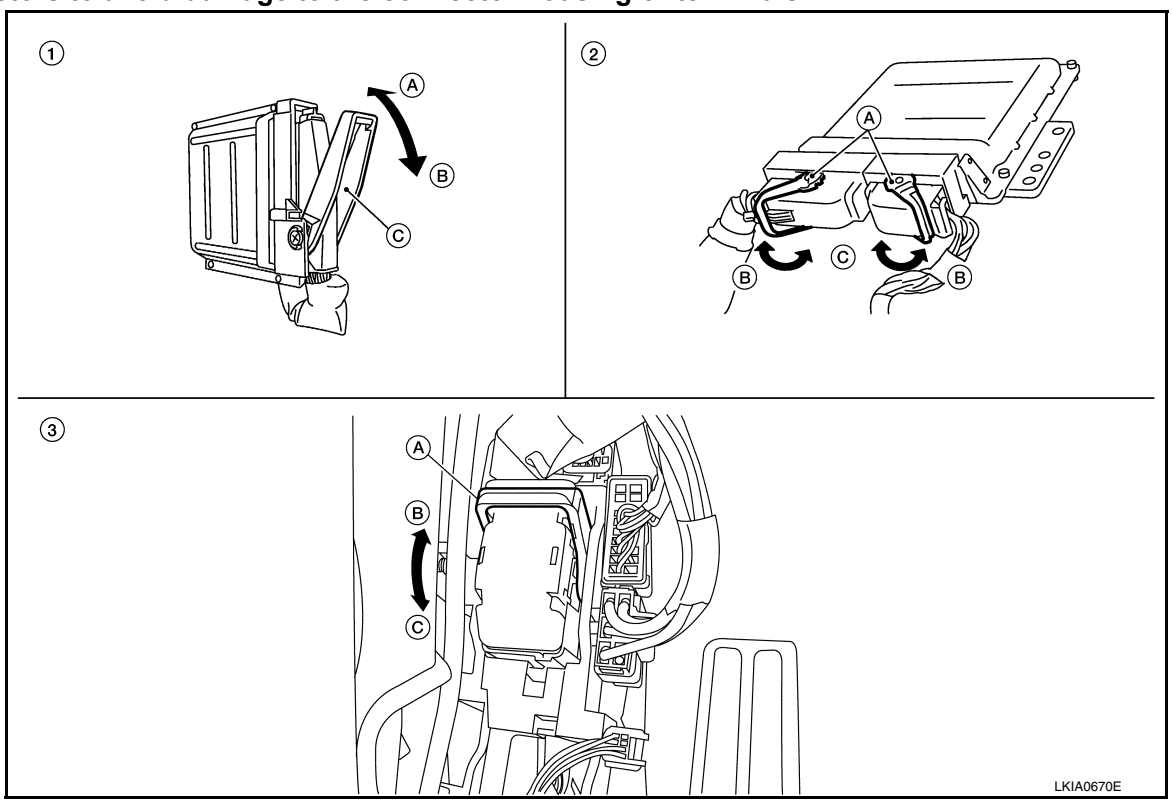


HARNESS CONNECTOR (LEVER LOCKING TYPE)

- 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:

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

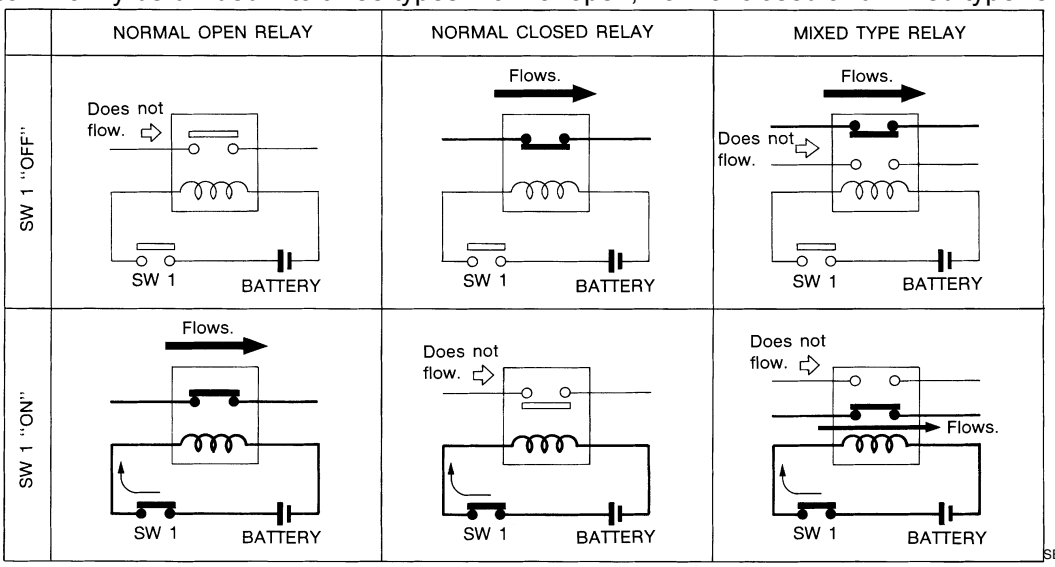
STANDARDIZED RELAY

Description

INFOID:0000000012169011

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

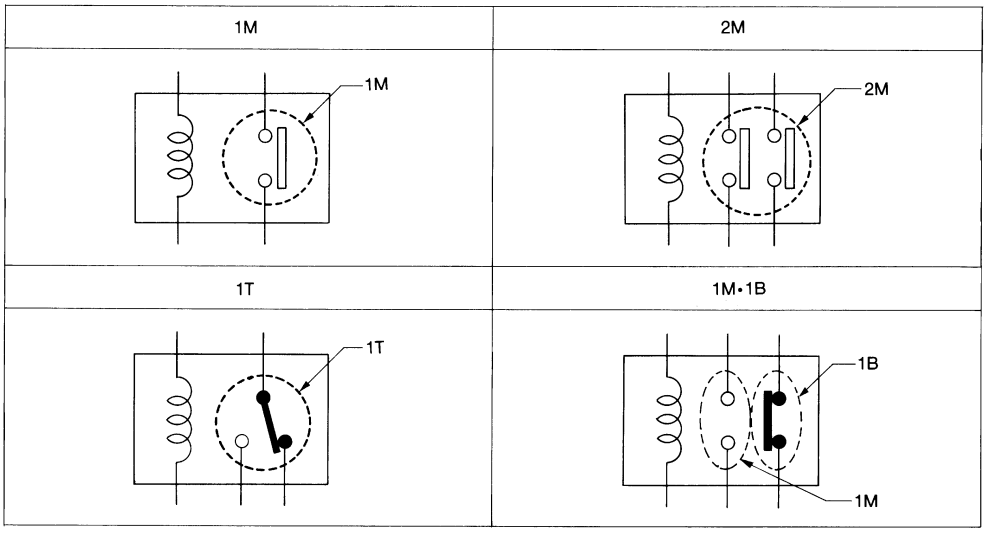
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



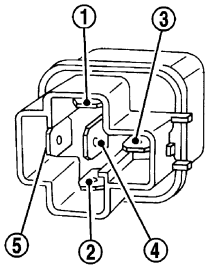
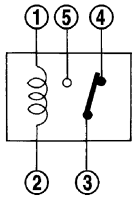
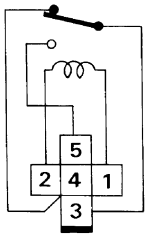
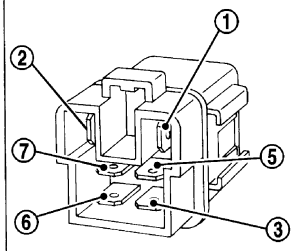
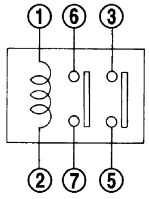
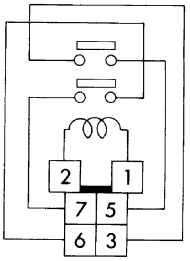
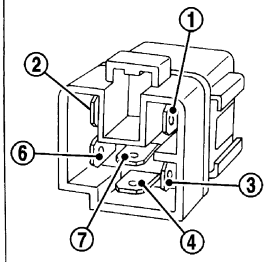
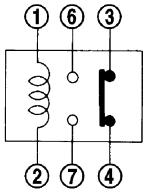
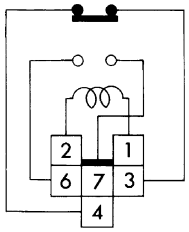
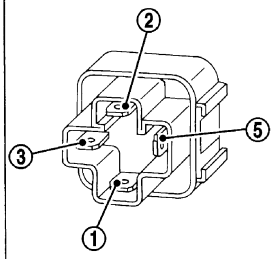
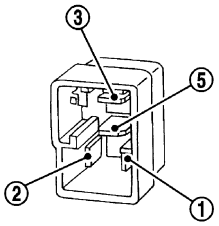
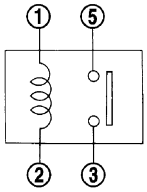
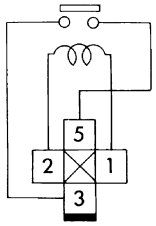
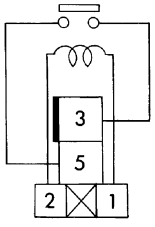
SEL881H

TYPE OF STANDARDIZED RELAYS

1M ····· 1 Make
1T ····· 1 Transfer
2M ····· 2 Make
1M·1B ····· 1 Make 1 Break



SEL882H

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.

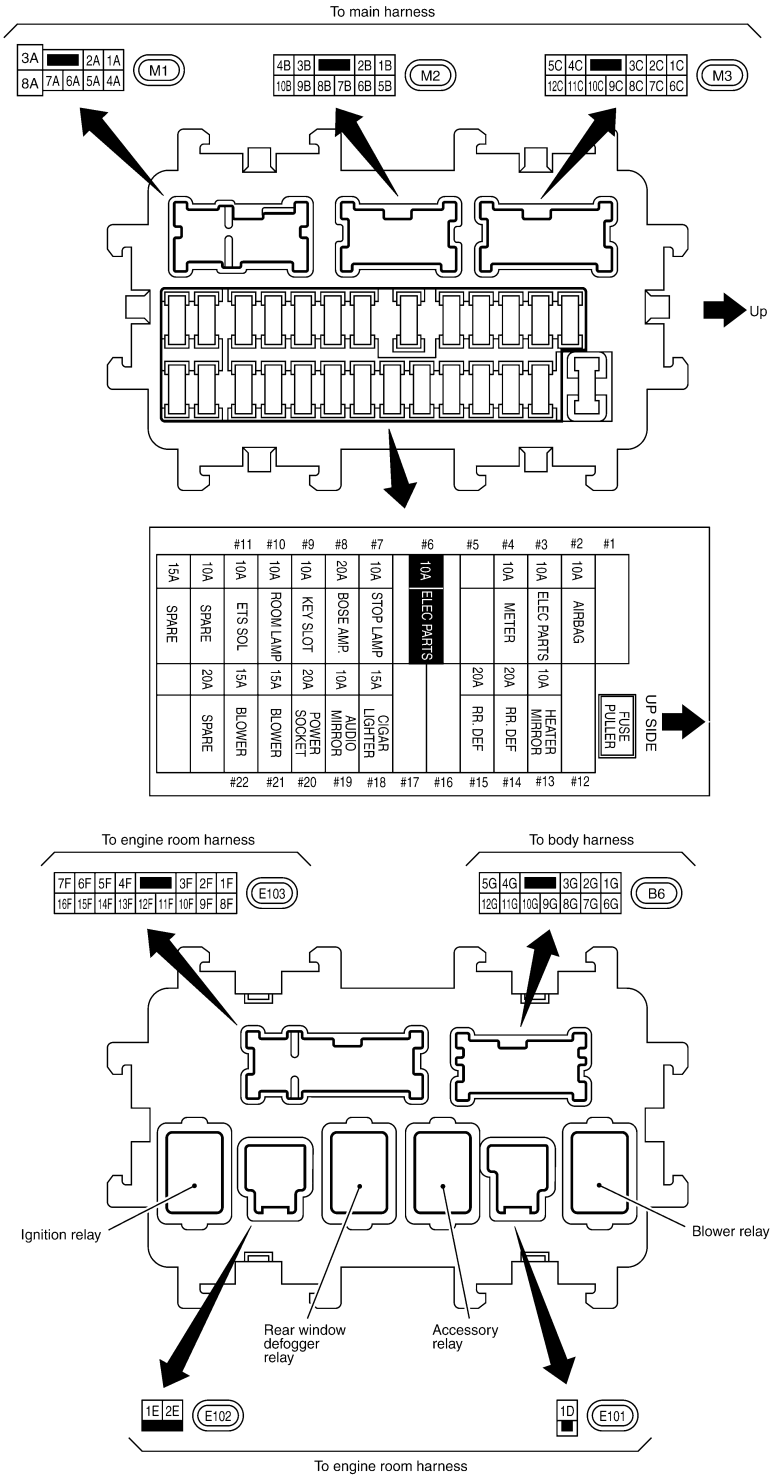
SEL188W

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:0000000012169012

FUSE BLOCK-JUNCTION BOX (J/B)
Fuse,Connector and Terminal Arrangement



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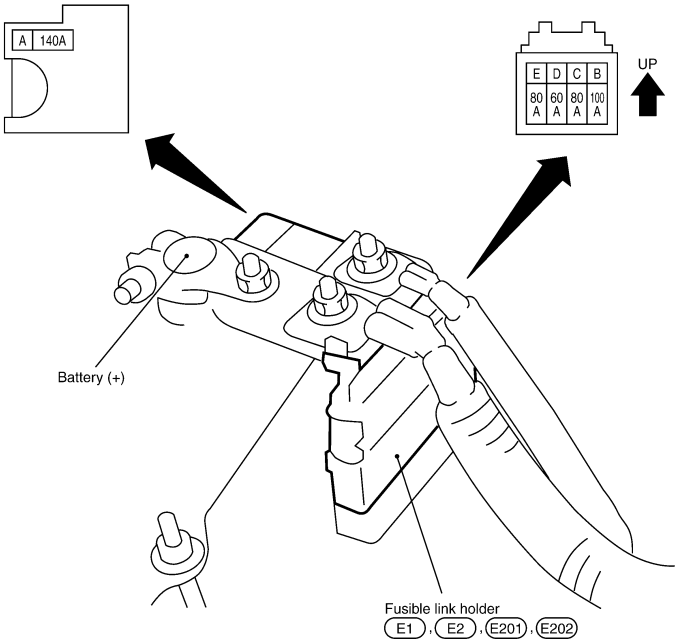
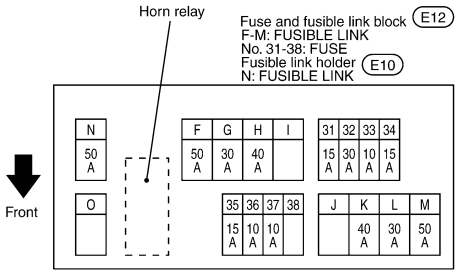
FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement

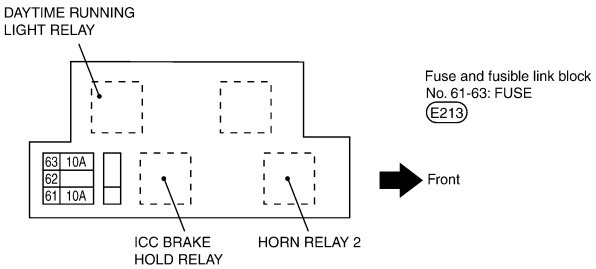
INFOID:0000000012169013

FUSE, FUSIBLE LINK AND RELAY BOX
Fuse and Fusible Link Arrangement





Fuse, fusible link and relay box



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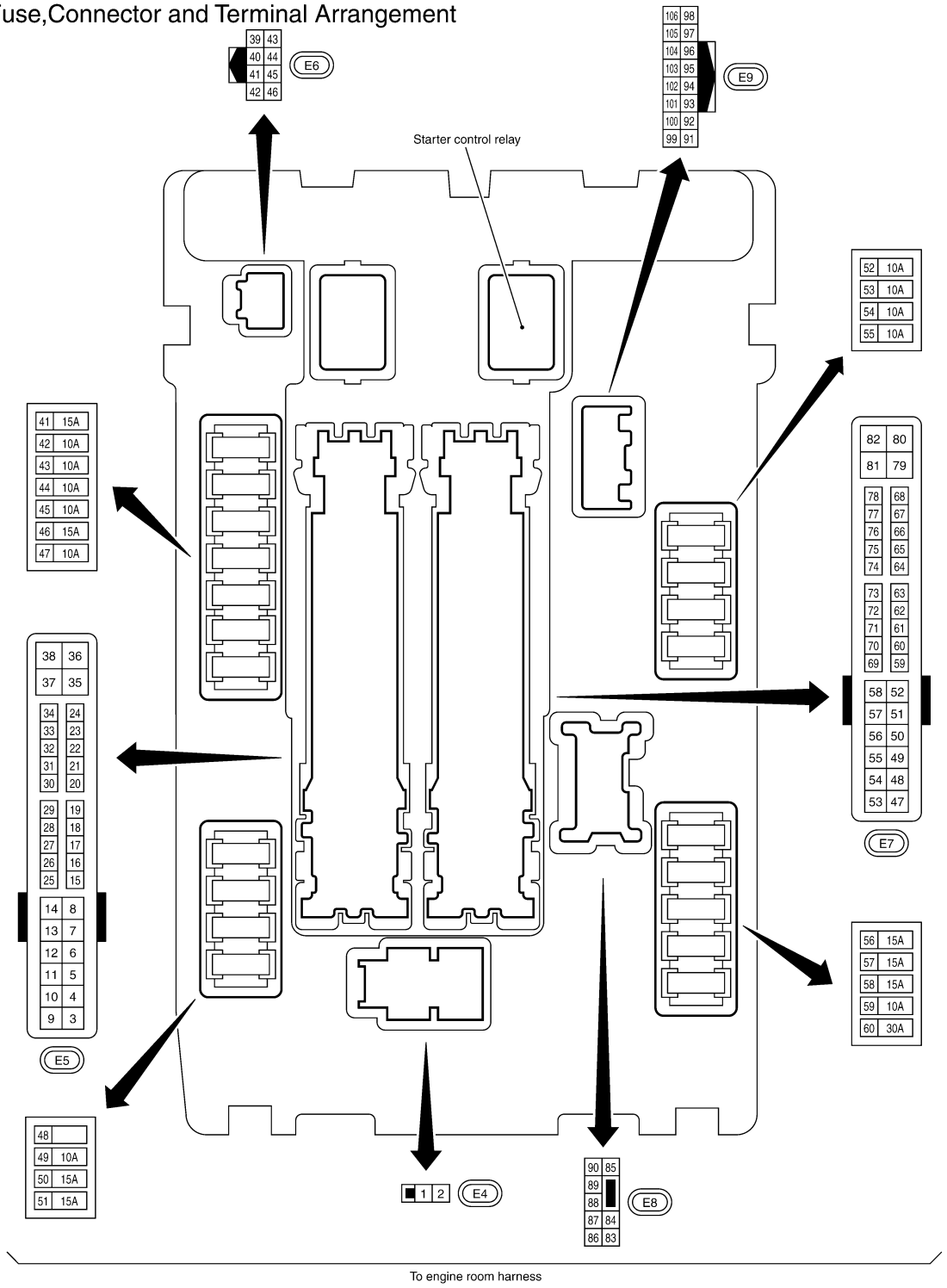
JRMWI3864GB

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

Fuse, Connector and Terminal Arrangement

INFOID:0000000012169014

IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Fuse,Connector and Terminal Arrangement



2015/06/22

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PRECAUTION

PRECAUTIONS

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

INFOID:0000000012169015

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, it is recommended that all maintenance and repair be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper repair, 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:

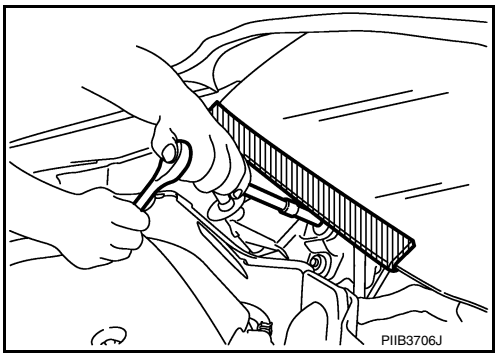
Always observe the following items for preventing accidental activation.

- **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 or batteries, and wait at least 3 minutes before performing any service.**

Precaution for Procedure without Cowl Top Cover

INFOID:0000000012169016

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



Precautions for Removing Battery Terminal

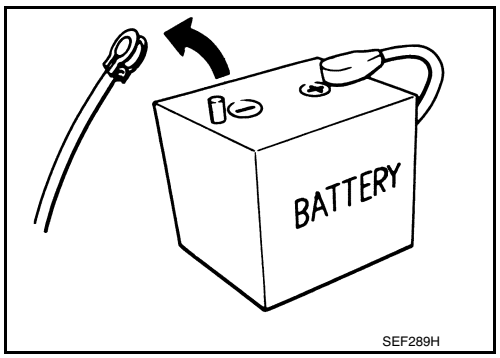
INFOID:0000000012603986

When disconnecting the battery terminal, pay attention to the following.

- Always use a 12V battery as power source.
- Never disconnect battery terminal while engine is running.

- When removing the 12V battery terminal, turn OFF the ignition switch and wait at least 30 seconds.
- For vehicles with the engine listed below, remove the battery terminal after a lapse of the specified time:

BR08DE	: 4 minutes	YD25DDTi	: 2 minutes
D4D engine	: 20 minutes	YS23DDT	: 4 minutes
HRA2DDT	: 12 minutes	YS23DDTT	: 4 minutes
K9K engine	: 4 minutes	ZD30DDTi	: 60 seconds
M9R engine	: 4 minutes	ZD30DDTT	: 60 seconds
R9M engine	: 4 minutes		
V9X engine	: 4 minutes		



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.

- After high-load driving, if the vehicle is equipped with the V9X engine, turn the ignition switch OFF and wait for at least 15 minutes to remove the battery terminal.

NOTE:
- Turbocharger cooling pump may operate in a few minutes after the ignition switch is turned OFF.
- Example of high-load driving
  - Driving for 30 minutes or more at 140 km/h (86 MPH) or more.
  - Driving for 30 minutes or more on a steep slope.

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

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

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

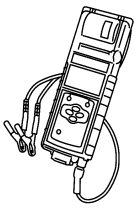
NOTE:
The removal of 12V battery may cause a DTC detection error.

PREPARATION

PREPARATION

Special Service Tools

INFOID:0000000012169018

Tool number (TechMate No.) Tool name		Description
— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station	 AWIIA1239ZZ	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	 JSMIA0806ZZ	Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.

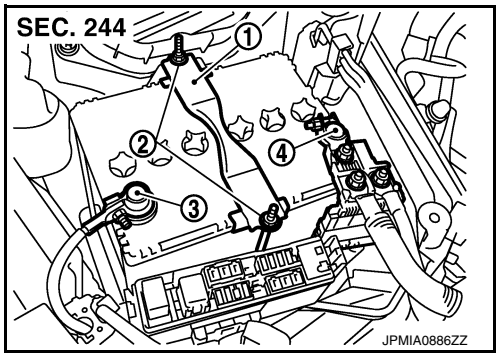
REMOVAL AND INSTALLATION

BATTERY

Exploded View

INFOID:0000000012169019

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

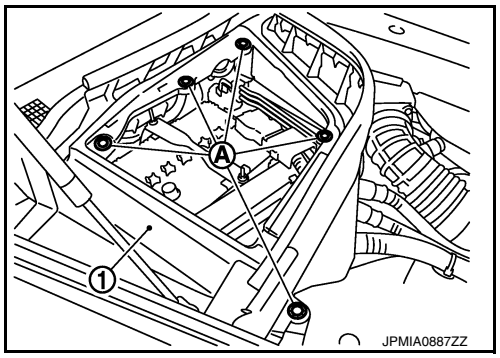


Removal and Installation

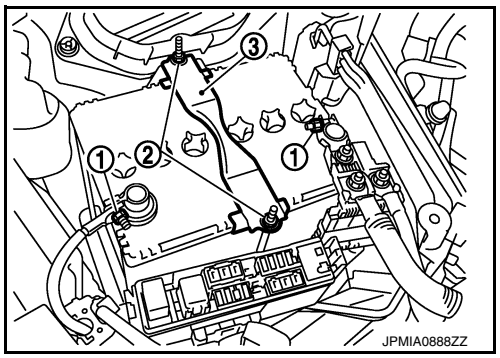
INFOID:0000000012169020

REMOVAL

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



3. Remove cowl top cover RH. Refer to EXT-22, "Exploded View".
4. Remove cover of battery positive terminal.
5. Loosen battery terminal nuts (1), and disconnect both battery cables from battery terminals. Refer to PG-114, "Precautions for Removing Battery Terminal".
   CAUTION:
   When disconnecting, disconnect the battery cable from the negative terminal first.
6. Remove battery fix frame mounting nuts (2) and battery fix frame (3).
7. Remove battery.



INSTALLATION

Install in the reverse order of removal.

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

Battery fix frame mounting nut

: 3.9 N·m (0.40 kg-m, 35 in-lb)

Battery terminal nut

: 5.4 N·m (0.55 kg-m, 48 in-lb)

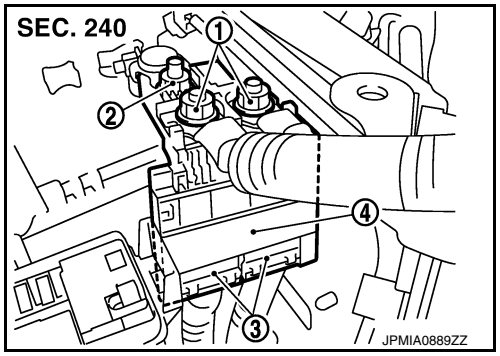
Reset electronic systems as necessary. Refer to GI-60, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection".

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:0000000012169021

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

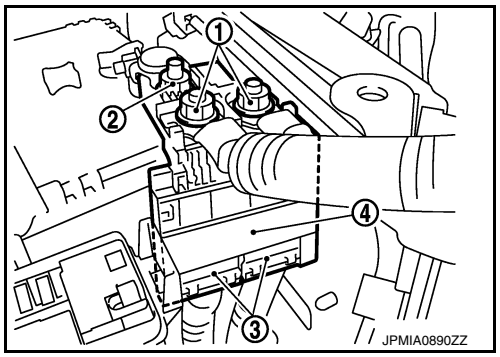


Removal and Installation

INFOID:0000000012169022

REMOVAL

1. Remove battery cover.
2. Disconnect the battery cable from the negative terminal. Refer to PG-114, "Precautions for Removing Battery Terminal".
3. Remove cover of battery positive terminal.
4. Remove harness mounting nuts (1) and fusible link holder mounting nut (2).
5. Disconnect harness connector (3) and remove battery terminal with fusible link (4).



INSTALLATION

Install in the reverse order of removal.

Harness mounting nut

: 13.5 N·m (1.4 kg-m, 10 ft-lb)

Fusible link holder mounting nut

: 13.5 N·m (1.4 kg-m, 10 ft-lb)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:0000000012169023

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