SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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BASIC INSPECTION

BATTERY

How to Handle Battery

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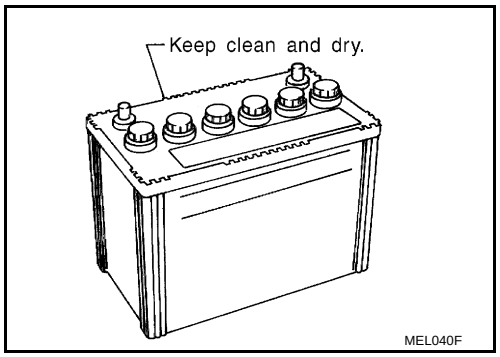
CAUTION:

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

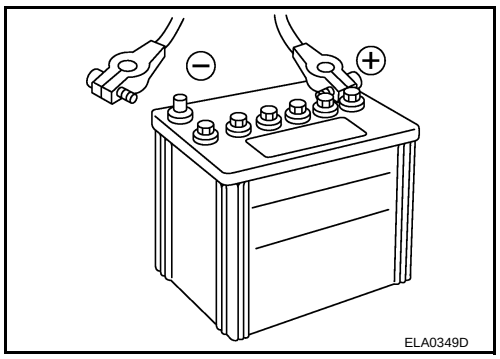
METHODS OF PREVENTING OVER-DISCHARGE

The following precautions must be taken to prevent over-discharging a battery.

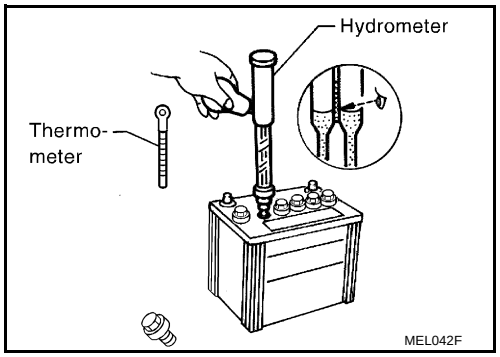
- The battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level.
  This also applies to batteries designated as “low maintenance” and “maintenance-free”.



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



- 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.

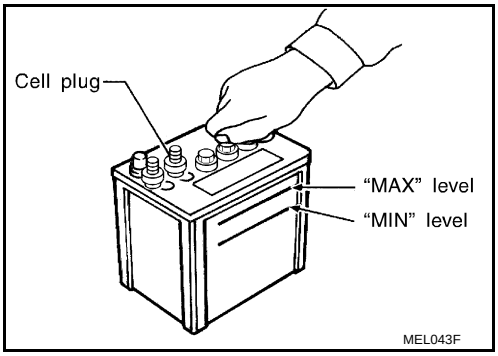


CHECKING ELECTROLYTE LEVEL

WARNING:

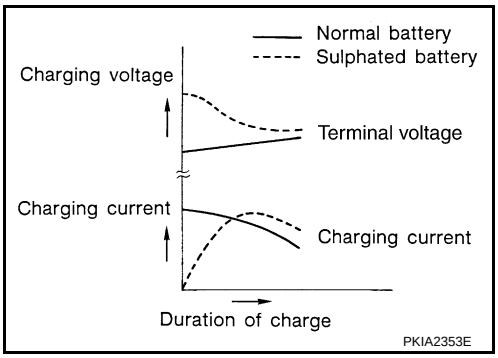
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.

- 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.

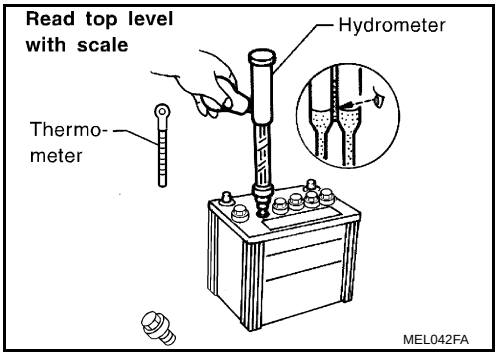


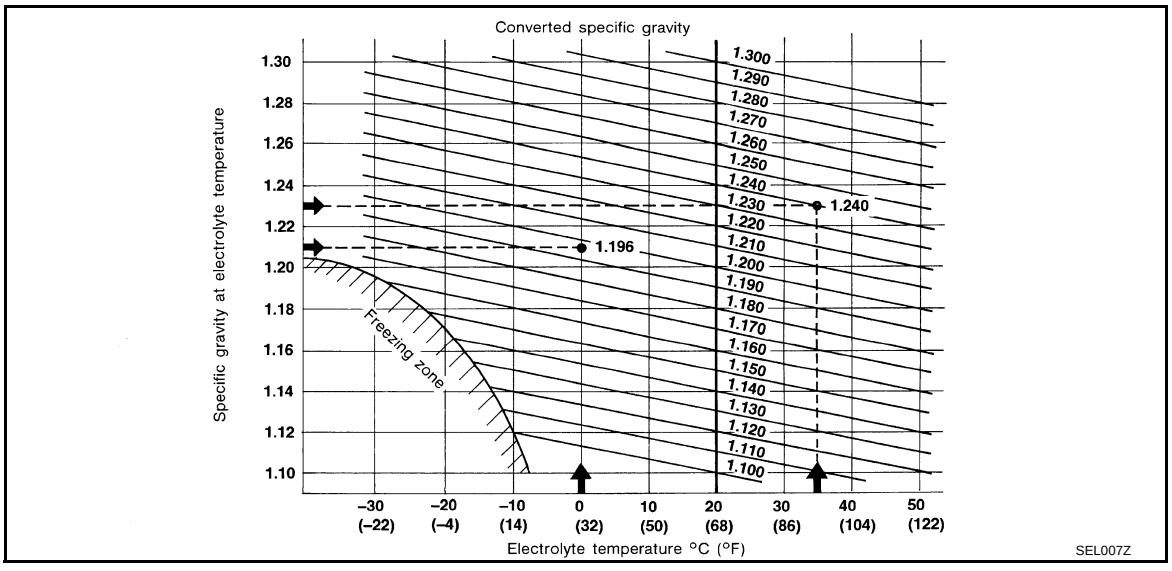
SPECIFIC GRAVITY CHECK

1. Read hydrometer and thermometer indications at eye level.
2. Convert into specific gravity at 20°C (68°F).

Example:

- When electrolyte temperature is 35°C (95°F) and specific gravity of electrolyte is 1.230, converted specific gravity at 20°C (68°F) is 1.240.
- When electrolyte temperature is 0°C (32°F) and specific gravity of electrolyte is 1.210, converted specific gravity at 20°C (68°F) is 1.196.





Work Flow

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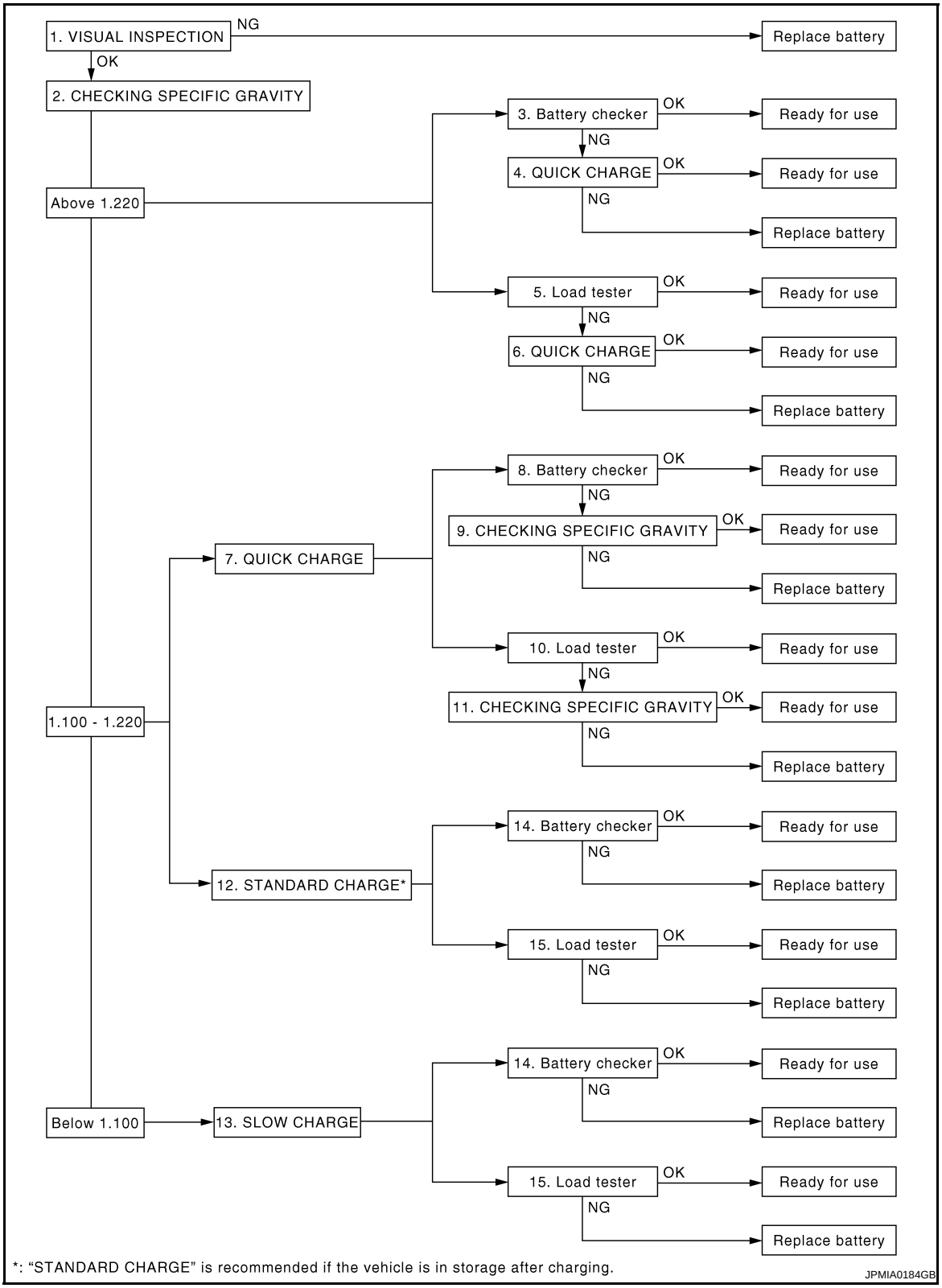
OVERALL SEQUENCE



DETAILED FLOW

1.VISUAL INSPECTION

1. Check battery case for cracks or bends.
2. Check battery terminals for damage.

3. If the difference between the max. and min. electrolyte level in cells is within 10 mm (0.39 in), it is OK.

Are these inspection results normal?

YES >> GO TO 2.
NO >> Replace battery.

2.CHECKING SPECIFIC GRAVITY

Check specific gravity. Refer to PG-3, "How to Handle Battery".

Inspection results

Above 1.220 (Test using battery checker)>>GO TO 3.
Above 1.220 (Test using load tester)>>GO TO 5.
1.100 - 1.220 (When performing quick charge)>>GO TO 7.
1.100 - 1.220 (When performing standard charge)>>GO TO 12.
Below 1.100>>GO TO 13.

3.CAPACITY TEST

Test using battery checker.

Is the battery usable, according to the manufacturer’s instructions?

YES >> Ready for use. Mount battery again and check loose terminals. Also check other related circuits.
NO >> GO TO 4.

4.QUICK CHARGE

1. Perform quick charge. Time required: 45 min. Refer to PG-131, "Quick Charge".
2. Test using battery checker.

Is the battery usable, according to the manufacturer’s instructions?

YES >> Ready for use.
NO >> Replace battery.

5.CAPACITY TEST

1. Test using load tester.
2. Check battery type and determine the specified current using the table.

Discharging Current (Load Tester)

Type	Current (A)
28B19R(L)	90
34B19R(L)	99
46B24R(L)	135
55B24R(L)	
50D23R(L)	150
55D23R(L)	180
80D23R(L)	195
65D26R(L)	
80D26R(L)	
75D31R(L)	210
95D31R(L)	240
115D31R(L)	
025 [YUASA type code]	
027 [YUASA type code]	285
110D26R(L)	300
95E41R(L)	
067 [YUASA type code]	325
130E41R(L)	330
096 [YUASA type code]	375

3. Read load tester voltage when specified discharging current flows through battery for 15 seconds.

Is the voltage 9.6 V or more?

YES >> Ready for use.
NO >> GO TO 6.

6. QUICK CHARGE

1. Perform quick charge. Time required: 45 min. Refer to PG-131, "Quick Charge".
2. Test using load tester.

Is the voltage 9.6 V or more?

YES >> Ready for use.
NO >> Replace battery.

7. QUICK CHARGE

1. Perform quick charge. Refer to PG-131, "Quick Charge".
2. Perform capacity test.

Test using battery checker.>>GO TO 8.
Test using load tester.>>GO TO 10.

8. CAPACITY TEST

Test using battery checker.

Is the battery usable, according to the manufacturer's instructions?

YES >> Ready for use.
NO >> GO TO 9.

9. CHECKING SPECIFIC GRAVITY

1. Check specific gravity. Refer to PG-3, "How to Handle Battery".
2. Perform recharge. Refer to PG-131, "Quick Charge".
   NOTE:
   If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).
3. Test using battery checker.

Is the battery usable, according to the manufacturer's instructions?

YES >> Ready for use.
NO >> Replace battery.

10. CAPACITY TEST

1. Test using load tester.
2. Check battery type and determine the specified current using the table.

Discharging Current (Load Tester)

Type	Current (A)
28B19R(L)	90
34B19R(L)	99
46B24R(L)	135
55B24R(L)	
50D23R(L)	150
55D23R(L)	180
80D23R(L)	195
65D26R(L)	
80D26R(L)	
75D31R(L)	210
95D31R(L)	240
115D31R(L)	
025 [YUASA type code]	

Type	Current (A)
027 [YUASA type code]	285
110D26R(L)	300
95E41R(L)	
067 [YUASA type code]	325
130E41R(L)	330
096 [YUASA type code]	375

3. Read load tester voltage when specified discharging current flows through battery for 15 seconds.

Is the voltage 9.6 V or more?

YES >> Ready for use.
NO >> GO TO 11.

11. CHECKING SPECIFIC GRAVITY

1. Check specific gravity. Refer to PG-3, "How to Handle Battery".
2. Perform recharge. Refer to PG-131, "Quick Charge".
   NOTE:
   If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).
3. Test using load tester.

Is the voltage 9.6 V or more?

YES >> Ready for use.
NO >> Replace battery.

12. STANDARD CHARGE

NOTE:
“STANDARD CHARGE” is recommended if the vehicle is in storage after charging.

1. Perform standard charge. Refer to PG-130, "Standard Charge".
2. Perform capacity test.

Test using battery checker.>>GO TO 14.
Test using load tester.>>GO TO 15.

13. SLOW CHARGE

1. Perform slow charge. Refer to PG-129, "Slow Charge".
2. Perform capacity test.

Test using battery checker.>>GO TO 14.
Test using load tester.>>GO TO 15.

14. CAPACITY TEST

Test using battery checker.

Is the battery usable, according to the manufacturer’s instructions?

YES >> Ready for use.
NO >> Replace battery.

15. CAPACITY TEST

1. Test using load tester.
2. Check battery type and determine the specified current using the table.

Discharging Current (Load Tester)

Type	Current (A)
28B19R(L)	90
34B19R(L)	99
46B24R(L)	135
55B24R(L)	

Type	Current (A)
50D23R(L)	150
55D23R(L)	180
80D23R(L)	195
65D26R(L)	
80D26R(L)	
75D31R(L)	210
95D31R(L)	240
115D31R(L)	
025 [YUASA type code]	
027 [YUASA type code]	285
110D26R(L)	300
95E41R(L)	
067 [YUASA type code]	325
130E41R(L)	330
096 [YUASA type code]	375

3. Read load tester voltage when specified discharging current flows through battery for 15 seconds.

Is the voltage 9.6 V or more?

YES >> Ready for use.
NO >> Replace battery.

COMPONENT DIAGNOSIS

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

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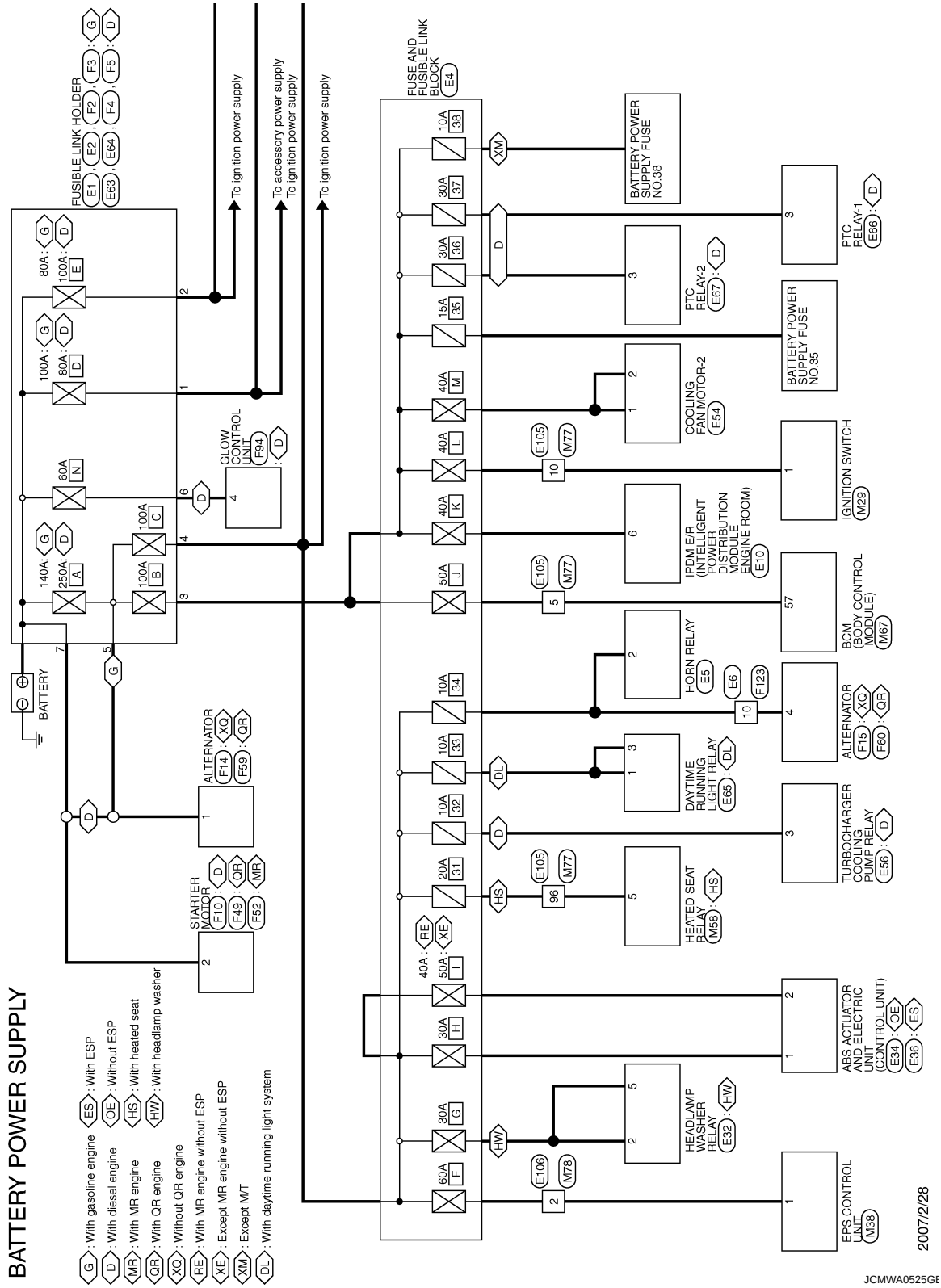
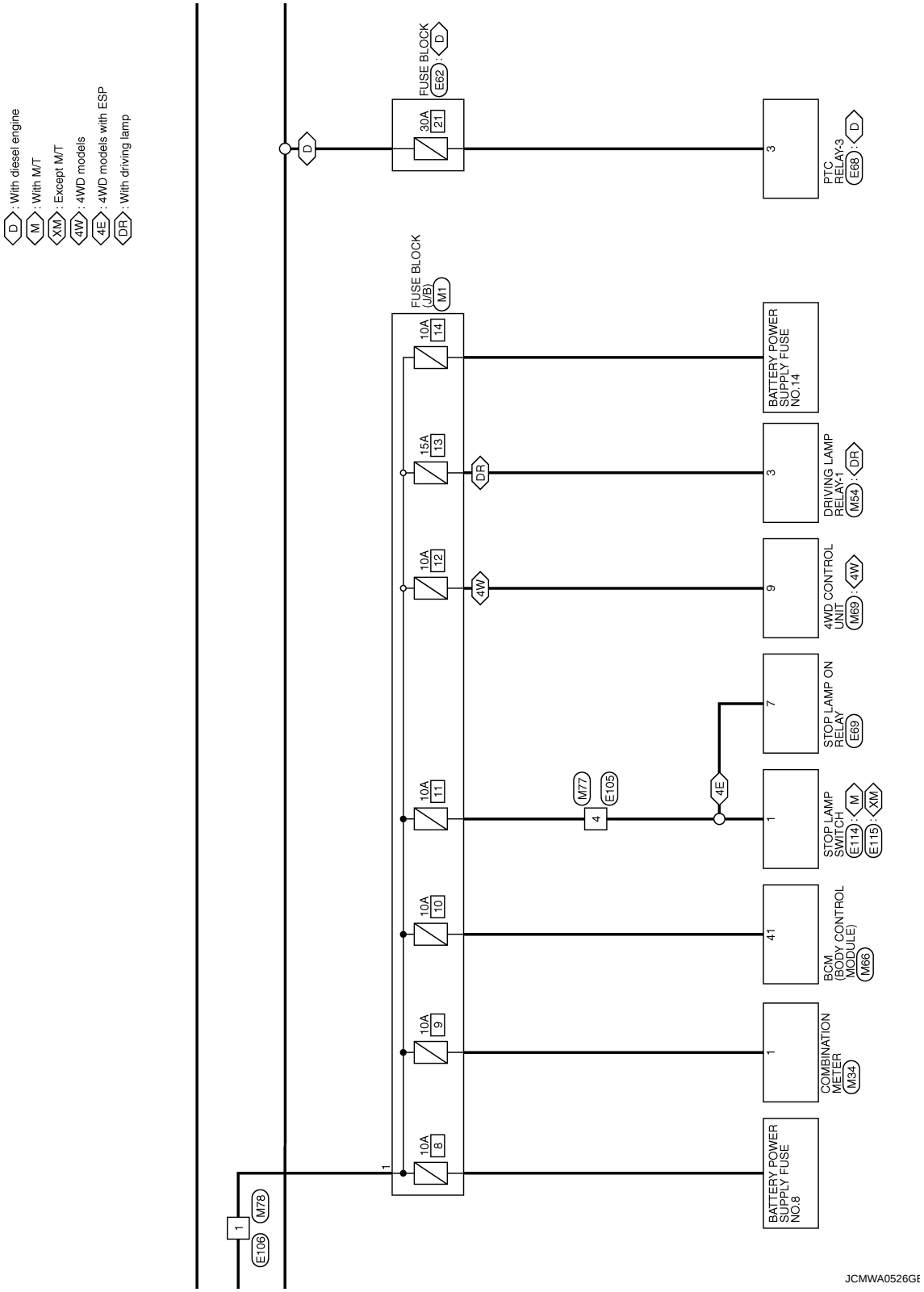
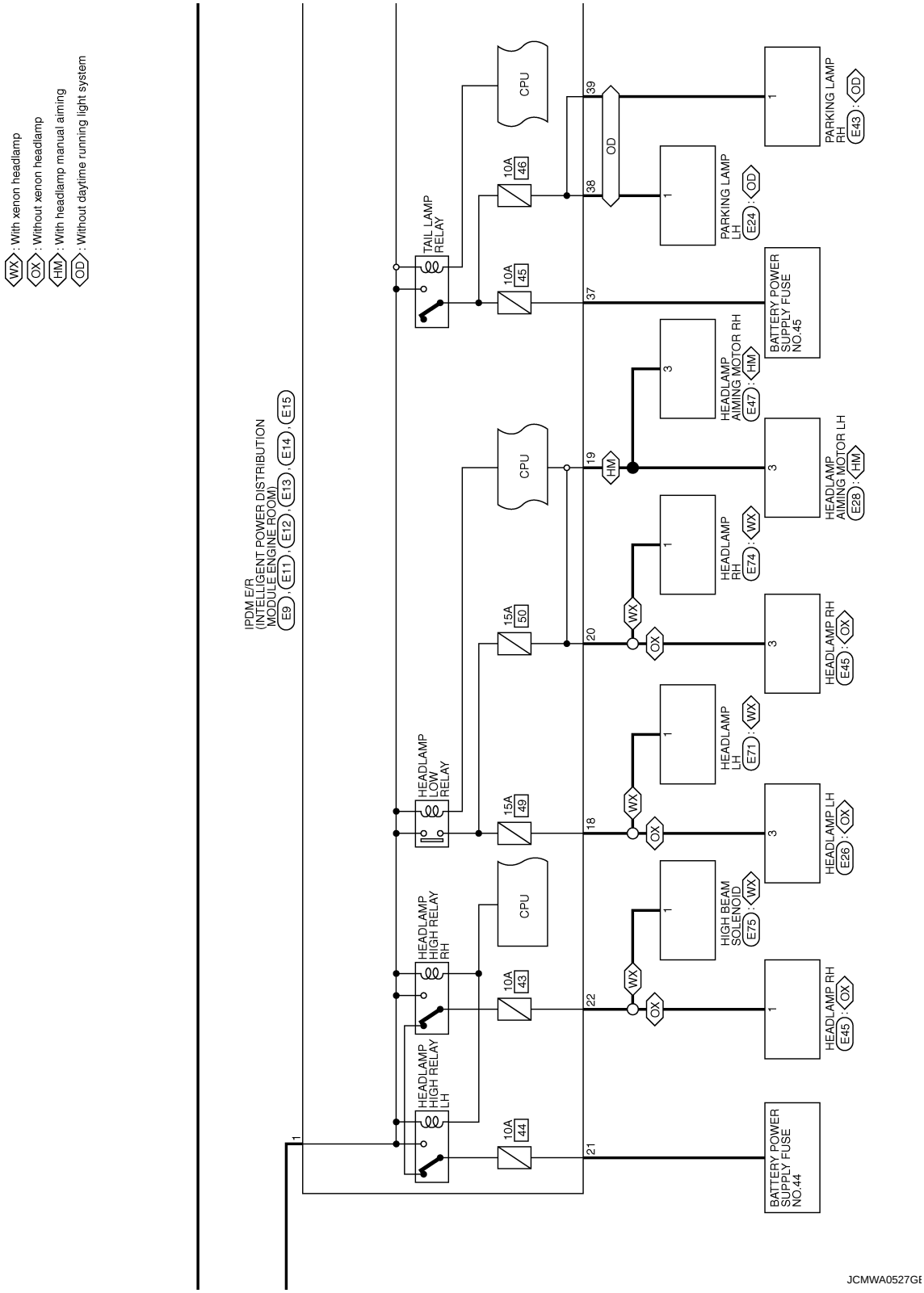
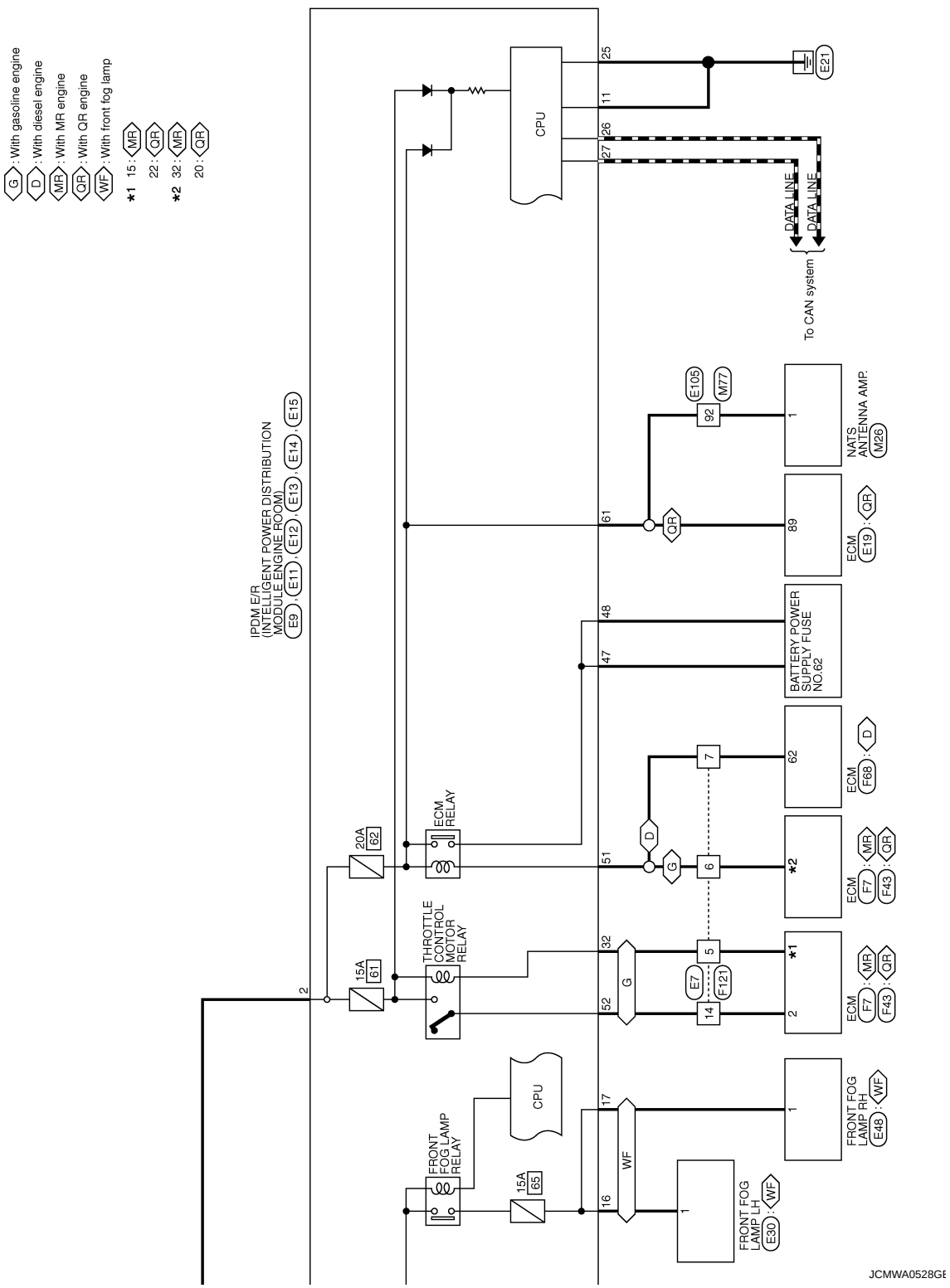



D : With diesel engine
M : With M/T
XM : Except M/T
4W : 4WD models
4E : 4WD models with ESP
DR : With driving lamp
FUSE BLOCK (J/B) M1
FUSE BLOCK E62 : D
30A 21
10A 14
15A 13
10A 12
10A 11
10A 10
10A 9
10A 8
BATTERY POWER SUPPLY FUSE NO.14
BATTERY POWER SUPPLY FUSE NO.8
PTC RELAY-3 E68 : D
DRIVING LAMP RELAY-1 M54 : DR
4WD CONTROL UNIT M69 : 4W
STOP LAMP ON RELAY E69
STOP LAMP SWITCH E114 : M E115 : XM
BCM (BODY CONTROL MODULE) M66
COMBINATION METER M34
M77
E105
E106
M78
4E
JCMWA0526GE


WX : With xenon headlamp
OX : Without xenon headlamp
HM : With headlamp manual aiming
OD : Without daytime running light system
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9, E11, E12, E13, E14, E15
HEADLAMP HIGH RELAY LH
HEADLAMP HIGH RELAY RH
HEADLAMP LOW RELAY
TAIL LAMP RELAY
CPU
10A 44
10A 43
15A 49
15A 50
10A 45
10A 46
BATTERY POWER SUPPLY FUSE NO.44
BATTERY POWER SUPPLY FUSE NO.45
HEADLAMP LH E71 : WX
HEADLAMP RH E74 : WX
HEADLAMP AIMING MOTOR RH E47 : HM
HEADLAMP AIMING MOTOR LH E28 : HM
HIGH BEAM SOLENOID E75 : WX
HEADLAMP LH E26 : OX
HEADLAMP RH E45 : OX
PARKING LAMP LH E24 : OD
PARKING LAMP RH E43 : OD
JCMWA0527GB


G : With gasoline engine
D : With diesel engine
MR : With MR engine
QR : With QR engine
WF : With front fog lamp
*1 15 : MR
22 : QR
*2 32 : MR
20 : QR
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9 , E11 , E12 , E13 , E14 , E15
CPU
DATA LINE
DATA LINE
To CAN system
E21
NATS ANTENNA AMP.
M26
E105
M77
ECM
E19 : QR
BATTERY POWER SUPPLY FUSE NO.62
ECM
F68 : D
ECM
F7 : MR
F43 : QR
ECM RELAY
20A
62
THROTTLE CONTROL MOTOR RELAY
15A
61
FRONT FOG LAMP RELAY
15A
65
FRONT FOG LAMP RH
E48 : WF
FRONT FOG LAMP LH
E30 : WF
JCMWA0528GB

BATTERY POWER SUPPLY

Connector No.	E1
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FGY-MC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	G	–

Connector No.	E2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FBR-MC-B

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	R	–

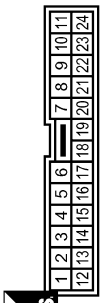
Connector No.	E5
Connector Name	HORN RELAY
Connector Type	–

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V

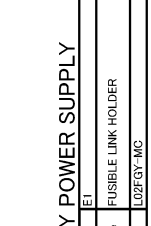
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
10	LG	–

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	LG	–[With gasoline engine]
6	W	–[With gasoline engine]
7	W	–[With diesel engine]
14	P	–[With gasoline engine]

Connector No.	E9
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC

H.S.

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

Connector No.	E10
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
6	BR	–

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–

JCMWA0529GB

BATTERY POWER SUPPLY

Connector No.	E12
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS

H.S.

17 16 15
22 21 20 19 18

Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	–
17	W	–
18	L	–
19	P	–
20	SB	–
21	G	–
22	LG	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH

H.S.

28 27 26 25 24 23
34 33 32 31 30 29

Terminal No.	Color of Wire	Signal Name [Specification]
25	B	–
26	P	–
27	L	–
32	LG	–

Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS

H.S.

39 38 37 36 35
46 45 44 43 42 41 40

Terminal No.	Color of Wire	Signal Name [Specification]
37	R	–
38	O	–
39	GR	–

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

H.S.

53 52 51 50 49 48 47
62 61 60 59 58 57 56 55 54

Terminal No.	Color of Wire	Signal Name [Specification]
47	GR	–[With gasoline engine]
47	V	–[With diesel engine]
48	R	–[With gasoline engine]
48	G	–[With diesel engine]
51	W	–
52	P	–
61	O	–

Connector No.	E19
Connector Name	ECM
Connector Type	BAA32FB-AHY8

H.S.

116 115 114 89 88 87 86 85 84 83 82
118 117 97 96 95 94 93 92 91 90
121 120 119 105 104 103 102 101 100 99 98
113 112 111 110 109 108 107 106

Terminal No.	Color of Wire	Signal Name [Specification]
89	O	BATT

Connector No.	E24
Connector Name	PARKING LAMP LH
Connector Type	T02FB

H.S.

2 1

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–

Connector No.	E26
Connector Name	HEADLAMP LH
Connector Type	NQ03FB

H.S.

3
2 1

Terminal No.	Color of Wire	Signal Name [Specification]
3	L	–

Connector No.	E28
Connector Name	HEADLAMP AIMING MOTOR LH
Connector Type	RS03FB

H.S.

1 2 3

Terminal No.	Color of Wire	Signal Name [Specification]
3	P	–

JCMWA0530GE

BATTERY POWER SUPPLY

Connector No.	E30
Connector Name	FRONT FOG LAMP LH
Connector Type	FHZ02FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–

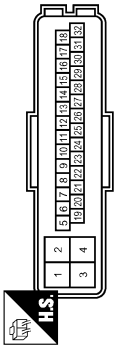
Connector No.	E32
Connector Name	HEADLAMP WASHER RELAY
Connector Type	MS02FL-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–
5	L	–

Connector No.	E34
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	RH28FB-NU4-DH

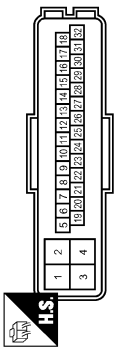
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	+B(MTR)
2	BR	+B(SOL)

Connector No.	E36
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	RH28FB-NU4-DH

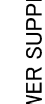
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	MOTOR
2	BR	ACTR

Connector No.	E43
Connector Name	PARKING LAMP RH
Connector Type	T02FB

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–

Connector No.	E45
Connector Name	HEADLAMP RH
Connector Type	NQ03FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–
3	SB	–

Connector No.	E47
Connector Name	HEADLAMP AIMING MOTOR RH
Connector Type	RS03FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	P	+B

Connector No.	E48
Connector Name	FRONT FOG LAMP RH
Connector Type	FHZ02FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

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BATTERY POWER SUPPLY

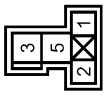
Connector No.	E54
Connector Name	COOLING FAN MOTOR-2
Connector Type	RS04FGY-PR

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–
2	O	–

Connector No.	E55
Connector Name	DAYTIME RUNNING LIGHT RELAY
Connector Type	MS02FL-M2

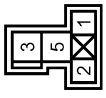
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–
3	Y	–

Connector No.	E56
Connector Name	TURBOCHARGER COOLING PUMP RELAY
Connector Type	MS02FL-M2

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	L	–

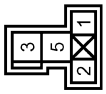
Connector No.	E66
Connector Name	PTC RELAY-1
Connector Type	MS02FL-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	–

Connector No.	E63
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FGY-MC

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	G	–

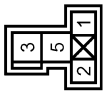
Connector No.	E67
Connector Name	PTC RELAY-2
Connector Type	MS02FL-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	P	–

Connector No.	E64
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FBR-MC-B

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–
4	R	–

Connector No.	E68
Connector Name	PTC RELAY-3
Connector Type	MS02FL-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	–

JCMWA0532GB

BATTERY POWER SUPPLY

Connector No.	E69
Connector Name	STOP LAMP ON RELAY
Connector Type	M06FGY-R-US

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
7	BR	–

Connector No.	E71
Connector Name	HEADLAMP LH
Connector Type	E02FGY-RS

H.S.

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

Connector No.	E74
Connector Name	HEADLAMP RH
Connector Type	E02FGY-RS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	–

Connector No.	E75
Connector Name	HIGH BEAM SOLENOID RH
Connector Type	RS02FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	V	–
5	Y	–
10	L	–
92	O	–
96	BR	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC

H.S.

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

Connector No.	E114
Connector Name	STOP LAMP SWITCH
Connector Type	M02FB-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–

Connector No.	E115
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–

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BATTERY POWER SUPPLY

Connector No.	F2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	–

H.S.

7

Terminal No.	Color of Wire	Signal Name [Specification]
7	B/R	–

Connector No.	F3
Connector Name	FUSIBLE LINK HOLDER
Connector Type	–

H.S.

5

Terminal No.	Color of Wire	Signal Name [Specification]
5	B/R	–

Connector No.	F4
Connector Name	FUSIBLE LINK HOLDER
Connector Type	–

H.S.

7

Terminal No.	Color of Wire	Signal Name [Specification]
7	B/R	–

Connector No.	F5
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L01FB-MC

H.S.

6

Terminal No.	Color of Wire	Signal Name [Specification]
6	W	–

Connector No.	F7
Connector Name	ECM
Connector Type	MA42FGY-MEA8-RH

H.S.

1	5	9	13	17	21	25	29			
2	6	10	14	18	22	26	30			
3	7	11	15	19	23	27	31			
4	8	12	16	20	24	28	32			

Terminal No.	Color of Wire	Signal Name [Specification]
2	P	VMOT
15	LG	MOTRLY
32	G	SSOFF

Connector No.	F10
Connector Name	STARTER MOTOR
Connector Type	–

H.S.

2

Terminal No.	Color of Wire	Signal Name [Specification]
2	B/R	–

Connector No.	F14
Connector Name	ALTERNATOR
Connector Type	–

H.S.

1

Terminal No.	Color of Wire	Signal Name [Specification]
1	B/R	B

Connector No.	F15
Connector Name	ALTERNATOR
Connector Type	HS03FB

H.S.

5 4 3

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	S

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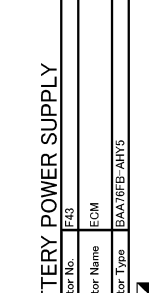
BATTERY POWER SUPPLY

Connector No.	F43
Connector Name	ECM
Connector Type	BAA76FB-AHY5



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	VMOT1
20	G	SSOFF
22	LG	MOTRLY1

Connector No.	F49
Connector Name	STARTER MOTOR
Connector Type	–

Terminal No.	Color of Wire	Signal Name [Specification]
2	B/R	–

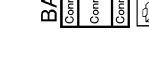
Connector No.	F52
Connector Name	STARTER MOTOR
Connector Type	–

Terminal No.	Color of Wire	Signal Name [Specification]
2	B/R	–

Connector No.	F59
Connector Name	ALTERNATOR
Connector Type	–

Terminal No.	Color of Wire	Signal Name [Specification]
1	B/R	B

Connector No.	F60
Connector Name	ALTERNATOR
Connector Type	X02FW



Terminal No.	Color of Wire	Signal Name [Specification]
4	P	S

Connector No.	F68
Connector Name	ECM
Connector Type	MAA40FBR-MEA8-RH

Terminal No.	Color of Wire	Signal Name [Specification]
62	W	MAIN RLY

Connector No.	F94
Connector Name	GLOW CONTROL UNIT
Connector Type	FCI 240PC089S0015

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–

Connector No.	F121
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	LG	–[With gasoline engine]
6	G	–[With gasoline engine]
7	W	–
14	P	–[With MR engine]
14	R	–[With QR engine]

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BATTERY POWER SUPPLY

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

Terminal No.	Color of Wire	Signal Name [Specification]
10	P	–

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	–

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

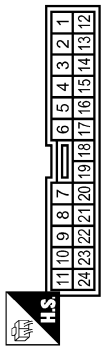
Connector No.	M26
Connector Name	NATS ANTENNA AMP.
Connector Type	TH04FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–

Connector No.	M29
Connector Name	IGNITION SWITCH
Connector Type	M06FW-LC

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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	BAT

Connector No.	M38
Connector Name	EPS CONTROL UNIT
Connector Type	ANA02FB

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

Connector No.	M54
Connector Name	DRIVING LAMP RELAY-1
Connector Type	MS02FL-M2-LC

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	–

Connector No.	M58
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2-LC

Terminal No.	Color of Wire	Signal Name [Specification]
5	BR	–

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BATTERY POWER SUPPLY

Connector No.	M66
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA12FBR

H.S.

52 51 50 49 48 47 46 45 44 43 42 41

Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	BAT(FUSE)

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FHA08FB

H.S.

60 59 58 57 56 55 54 53

Terminal No.	Color of Wire	Signal Name [Specification]
57	Y	BAT(F/L)

Connector No.	M69
Connector Name	4WD CONTROL UNIT
Connector Type	TH16FW-NH

H.S.

1 2 3 4 5 6 7 8
9 10 11 12 13 14 15 16

Terminal No.	Color of Wire	Signal Name [Specification]
9	R	SOL BATT

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	V	–
5	Y	–
10	L	–
92	O	–
96	BR	–

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC

H.S.

1 2

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

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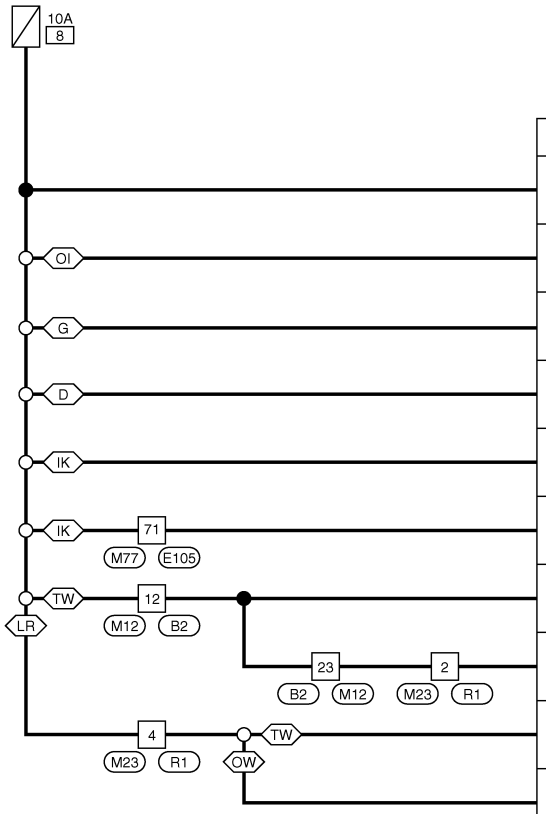
BATTERY POWER SUPPLY FUSE NO.8

G : With gasoline engine
D : With diesel engine
IK : With Intelligent Key
OI : Without Intelligent Key
TW : With theft warning system
OW : Without theft warning system
LR : With light & rain sensor



Connector No.	Terminal No.	Connect to
M4	16	DATA LINK CONNECTOR
M24	2	KEY SWITCH
M50	2	AUTO AMP.
M53	22	AUTO AMP.
M90	2	PASSENGER SIDE ANTI-HIJACK RELAY
E25	1	INTELLIGENT KEY WARNING BUZZER
B68	2	SIREN CONTROL UNIT
R11	1	ULTRA SONIC SENSOR
R12	1	LIGHT & RAIN SENSOR
R13	1	LIGHT & RAIN SENSOR

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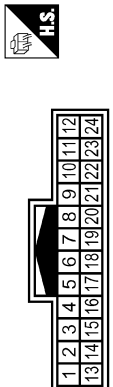
BATTERY POWER SUPPLY FUSE NO.8

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

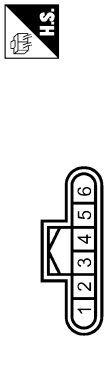
Terminal No.	Color of Wire	Signal Name [Specification]
12	Y	–
23	Y	–

Connector No.	B68
Connector Name	SIREN CONTROL UNIT
Connector Type	RH06FB



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	+B

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
71	Y	–

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

Terminal No.	Color of Wire	Signal Name [Specification]
16	Y	–

Connector No.	M12
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
12	Y	–
23	BR	–

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH16FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–
4	Y	–

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	TK02MBR-P

Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–

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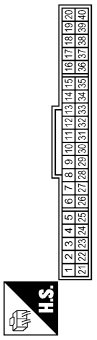
BATTERY POWER SUPPLY FUSE NO.8

Connector No.	M50
Connector Name	AUTO AMP.
Connector Type	TK20FGY

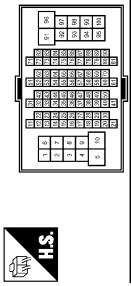
Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	BAT

Connector No.	M53
Connector Name	AUTO AMP.
Connector Type	SAB40FW



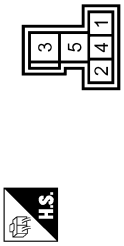
Terminal No.	Color of Wire	Signal Name [Specification]
22	Y	BAT

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
71	Y	–

Connector No.	M90
Connector Name	PASSENGER SIDE ANTI-HIJACK RELAY
Connector Type	MS03FB-M2

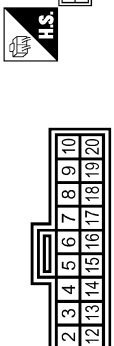


Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	–

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH16MW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
4	Y	–

Connector No.	R11
Connector Name	ULTRA SONIC SENSOR
Connector Type	TK04FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	+B

Connector No.	R12
Connector Name	LIGHT & RAIN SENSOR
Connector Type	AAB03FB

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	+B

Connector No.	R13
Connector Name	LIGHT & RAIN SENSOR
Connector Type	AAB03FB

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	+B

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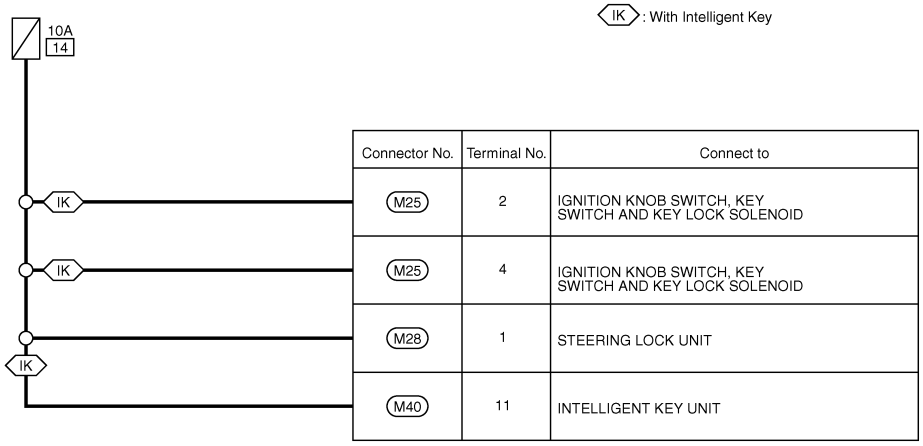
BATTERY POWER SUPPLY FUSE NO.14



Connector No.	Terminal No.	Connect to
M25	2	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
M25	4	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
M28	1	STEERING LOCK UNIT
M40	11	INTELLIGENT KEY UNIT

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BATTERY POWER SUPPLY FUSE NO.14

Connector No.	M25
Connector Name	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
Connector Type	TK06MGY

H.S.

1 2 3 4 5 6

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–
4	BR	–

Connector No.	M28
Connector Name	STEERING LOCK UNIT
Connector Type	TK04FW

H.S.

1 2 3 4

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	–[LHD models]
1	BR	–[RHD models]

Connector No.	M40
Connector Name	[INTELLIGENT KEY UNIT
Connector Type	TH40FW-NH

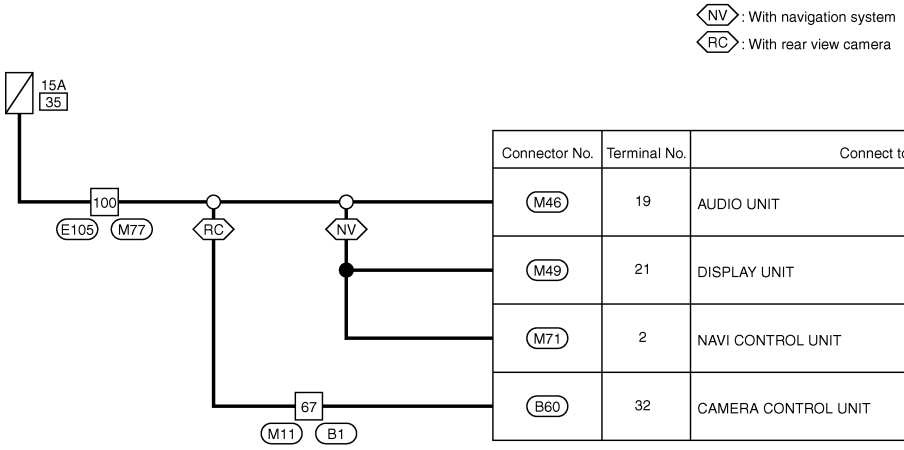
H.S.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Terminal No.	Color of Wire	Signal Name [Specification]
11	R	BATT+[LHD models]
11	BR	BATT+[RHD models]

JCMWA0542GE

BATTERY POWER SUPPLY FUSE NO.35



Connector No.	Terminal No.	Connect to
M46	19	AUDIO UNIT
M49	21	DISPLAY UNIT
M71	2	NAVI CONTROL UNIT
B60	32	CAMERA CONTROL UNIT

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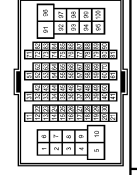
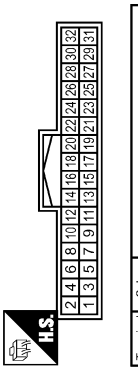
BATTERY POWER SUPPLY FUSE NO.35

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



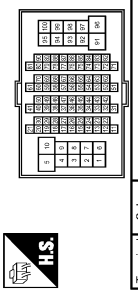
Terminal No.	Color of Wire	Signal Name [Specification]
67	R	–

Connector No.	B60
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH



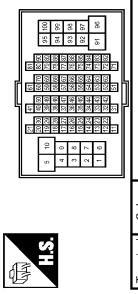
Terminal No.	Color of Wire	Signal Name [Specification]
32	R	BAT

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



Terminal No.	Color of Wire	Signal Name [Specification]
100	SB	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
67	BR	–

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2

Terminal No.	Color of Wire	Signal Name [Specification]
19	BR	BAT

Connector No.	M49
Connector Name	DISPLAY UNIT
Connector Type	TH24FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
21	BR	BAT

Connector No.	M71
Connector Name	NAVI CONTROL UNIT
Connector Type	TH40FW-NH

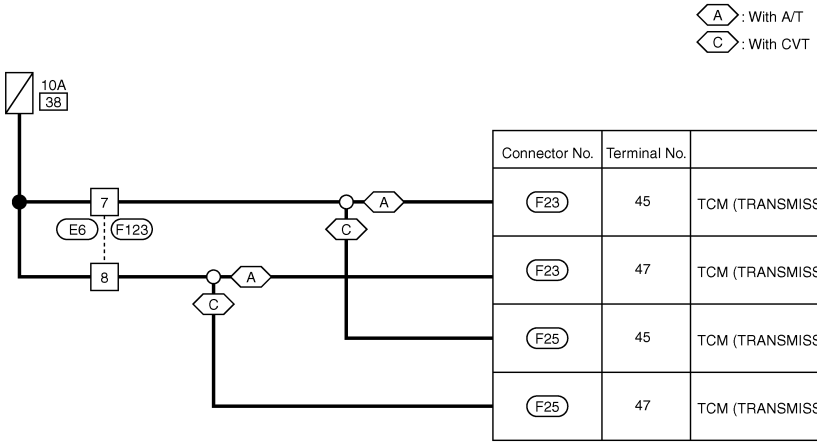
Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	BAT

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
100	BR	–

JCMWA0544GE

BATTERY POWER SUPPLY FUSE NO.38



Connector No.	Terminal No.	Connect to
F23	45	TCM (TRANSMISSION CONTROL MODULE)
F23	47	TCM (TRANSMISSION CONTROL MODULE)
F25	45	TCM (TRANSMISSION CONTROL MODULE)
F25	47	TCM (TRANSMISSION CONTROL MODULE)

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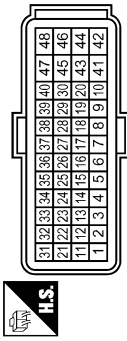
BATTERY POWER SUPPLY FUSE NO.38

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V

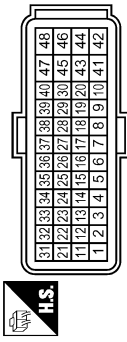
Terminal No.	Color of Wire	Signal Name [Specification]
7	W	–
8	W	–

Connector No.	F23
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	MAA40FB-MEA8-LH



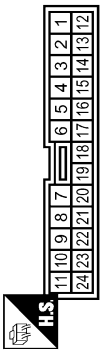
Terminal No.	Color of Wire	Signal Name [Specification]
45	W	VBATT
47	O	VBATT

Connector No.	F25
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	MAA40FB-MEA8-LH



Terminal No.	Color of Wire	Signal Name [Specification]
45	W	BATT
47	O	BATT

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

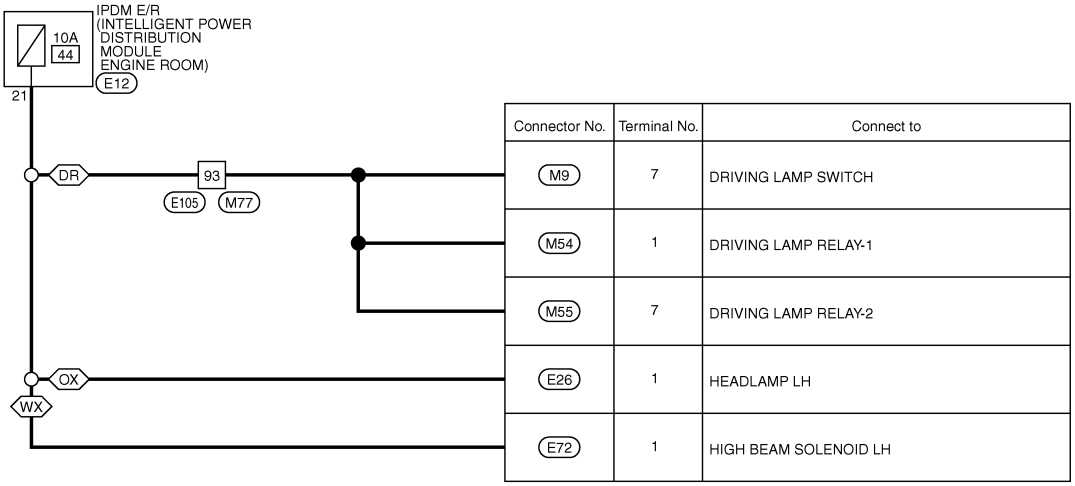


Terminal No.	Color of Wire	Signal Name [Specification]
7	W	–
8	O	–

JCMWA0546GE

BATTERY POWER SUPPLY FUSE NO.44

WX : With xenon headlamp
OX : Without xenon headlamp
DR : With driving lamp



Connector No.	Terminal No.	Connect to
M9	7	DRIVING LAMP SWITCH
M54	1	DRIVING LAMP RELAY-1
M55	7	DRIVING LAMP RELAY-2
E26	1	HEADLAMP LH
E72	1	HIGH BEAM SOLENOID LH

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BATTERY POWER SUPPLY FUSE NO.44

Connector No.	E12
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS08FBR-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
21	G	–

Connector No.	E26
Connector Name	HEADLAMP LH
Connector Type	NQ03FB

H.S.

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

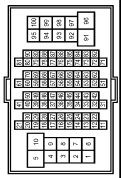
Connector No.	E72
Connector Name	HIGH BEAM SOLENOID LH
Connector Type	RS02FB

H.S.

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

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

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
93	L	–

Connector No.	M9
Connector Name	DRIVING LAMP SWITCH
Connector Type	TK08FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
7	P	COMB SW HI

Connector No.	M54
Connector Name	DRIVING LAMP RELAY-1
Connector Type	MS02FL-M2-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–

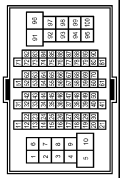
Connector No.	M55
Connector Name	DRIVING LAMP RELAY-2
Connector Type	M06FBR-R-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
7	P	–

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

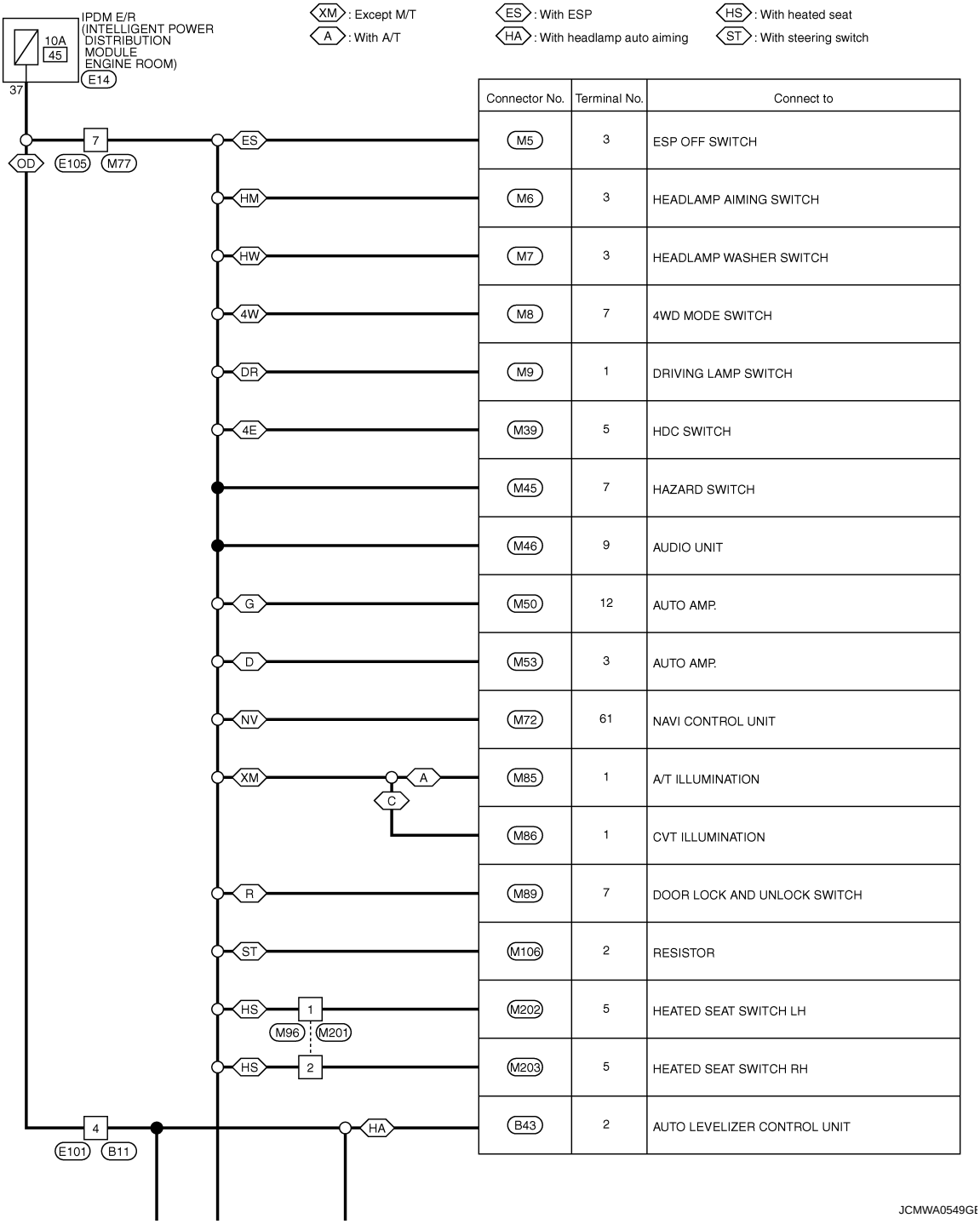


Terminal No.	Color of Wire	Signal Name [Specification]
93	P	–

JCMWA0548GB

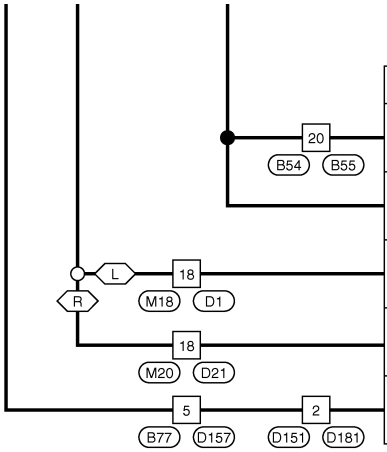
BATTERY POWER SUPPLY FUSE NO.45

L : LHD models
R : RHD models
G : With gasoline engine
D : With diesel engine
XM : Except M/T
A : With A/T
C : With CVT
4W : 4WD models
4E : 4WD models with ESP
NV : With navigation system
ES : With ESP
HA : With headlamp auto aiming
HM : With headlamp manual aiming
DR : With driving lamp
OD : Without daytime running light system
HW : With headlamp washer
HS : With heated seat
ST : With steering switch



Connector No.	Terminal No.	Connect to
M5	3	ESP OFF SWITCH
M6	3	HEADLAMP AIMING SWITCH
M7	3	HEADLAMP WASHER SWITCH
M8	7	4WD MODE SWITCH
M9	1	DRIVING LAMP SWITCH
M39	5	HDC SWITCH
M45	7	HAZARD SWITCH
M46	9	AUDIO UNIT
M50	12	AUTO AMP.
M53	3	AUTO AMP.
M72	61	NAVI CONTROL UNIT
M85	1	A/T ILLUMINATION
M86	1	CVT ILLUMINATION
M89	7	DOOR LOCK AND UNLOCK SWITCH
M106	2	RESISTOR
M202	5	HEATED SEAT SWITCH LH
M203	5	HEATED SEAT SWITCH RH
B43	2	AUTO LEVELIZER CONTROL UNIT

JCMWA0549GB



Connector No.	Terminal No.	Connect to
B59	1	REAR COMBINATION LAMP RH
B80	1	REAR COMBINATION LAMP LH
D8	9	DOOR MIRROR REMOTE CONTROL SWITCH
D28	9	DOOR MIRROR REMOTE CONTROL SWITCH
D186	5	BACK DOOR OPENER SWITCH ASSEMBLY

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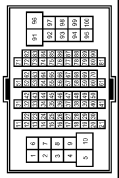
BATTERY POWER SUPPLY FUSE NO.45

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

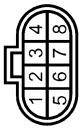
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	R	–

Connector No.	B43
Connector Name	AUTO LEVELIZER CONTROL UNIT
Connector Type	AEX08FB

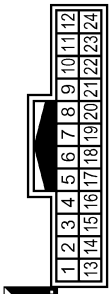
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	R	LIGHT ON

Connector No.	B54
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

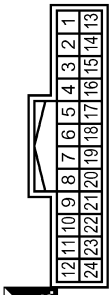
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
20	R	–

Connector No.	B55
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
20	R	–

Connector No.	B59
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS04MW-CS

H.S.

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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	NS10MW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–

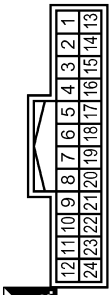
Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS04MW-CS

H.S.

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

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
18	P	–

JCMWA0551GB

BATTERY POWER SUPPLY FUSE NO.45

Connector No.	D8
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FW

H.S.

1	2	3	4		5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
9	P	+ILL

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.

12	11	10	9	8	7	6	5	4	3	2	1
24	23	22	21	20	19	18	17	16	15	14	13

Terminal No.	Color of Wire	Signal Name [Specification]
18	R	–

Connector No.	D28
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FW

H.S.

1	2	3	4		5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
9	R	+ILL

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	NS08FBR-CS

H.S.

3		2	1
8	7	6	5	4

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	NS10FW-CS

H.S.

4	3		2	1
10	9	8	7	6	5

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	NS08MBR-CS

H.S.

1	2		3
4	5	6	7	8

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–

Connector No.	D186
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	TK06MW-IV

H.S.

1		6
2	3	4	5

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	LIC LAMP

Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS

H.S.

39	38		37	36	35
46	45	44	43	42	41	40

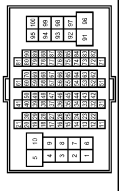
Terminal No.	Color of Wire	Signal Name [Specification]
37	R	–

JCMWA0552GE

BATTERY POWER SUPPLY FUSE NO.45

Connector No.	E101
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

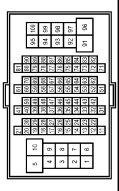
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	GR	–

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

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–

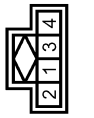
Connector No.	M5
Connector Name	ESP OFF SWITCH
Connector Type	TK06FGY

H.S.

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

Connector No.	M6
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	A04FW

H.S.



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

Connector No.	M7
Connector Name	HEADLAMP WASHER SWITCH
Connector Type	TK08FGY

H.S.

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

Connector No.	M8
Connector Name	4WD MODE SWITCH
Connector Type	TH08FW-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–

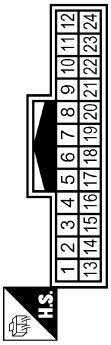
Connector No.	M9
Connector Name	DRIVING LAMP SWITCH
Connector Type	TK08FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	+ILL

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
18	R	–

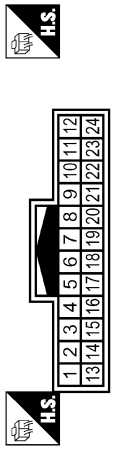
JCMWA0553GB

BATTERY POWER SUPPLY FUSE NO.45

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

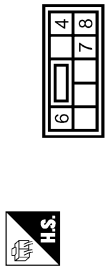
Terminal No.	Color of Wire	Signal Name [Specification]
18	R	–

Connector No.	M39
Connector Name	HDC SWITCH
Connector Type	TK08FW



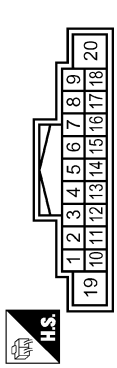
Terminal No.	Color of Wire	Signal Name [Specification]
5	R	LIGHT SW

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	NS08FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
9	R	ILL

Connector No.	M50
Connector Name	AUTO AMP.
Connector Type	TK20FGY

Terminal No.	Color of Wire	Signal Name [Specification]
12	GR	LIGHT(+)

Connector No.	M53
Connector Name	AUTO AMP.
Connector Type	SAB40FW

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	LIGHT(+)

Connector No.	M72
Connector Name	NAVI CONTROL UNIT
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
61	R	ILL

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–

JCMWA0554GE

BATTERY POWER SUPPLY FUSE NO.45

Connector No.	M85
Connector Name	A/T ILLUMINATION
Connector Type	TK02FBR

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

Connector No.	M86
Connector Name	CVT ILLUMINATION
Connector Type	TK02FBR

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

Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	TK10FW

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–

Connector No.	M96
Connector Name	WIRE TO WIRE
Connector Type	NS12MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–
2	R	–[With heated seat without power seat]
2	BR	–[With heated seat and power seat]

Connector No.	M106
Connector Name	RESISTOR
Connector Type	24336 CB902

Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–

Connector No.	M201
Connector Name	WIRE TO WIRE
Connector Type	NS12FW-CS

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

Connector No.	M202
Connector Name	HEATED SEAT SWITCH LH
Connector Type	NS06FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–

Connector No.	M203
Connector Name	HEATED SEAT SWITCH RH
Connector Type	NS06FBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
5	L	–

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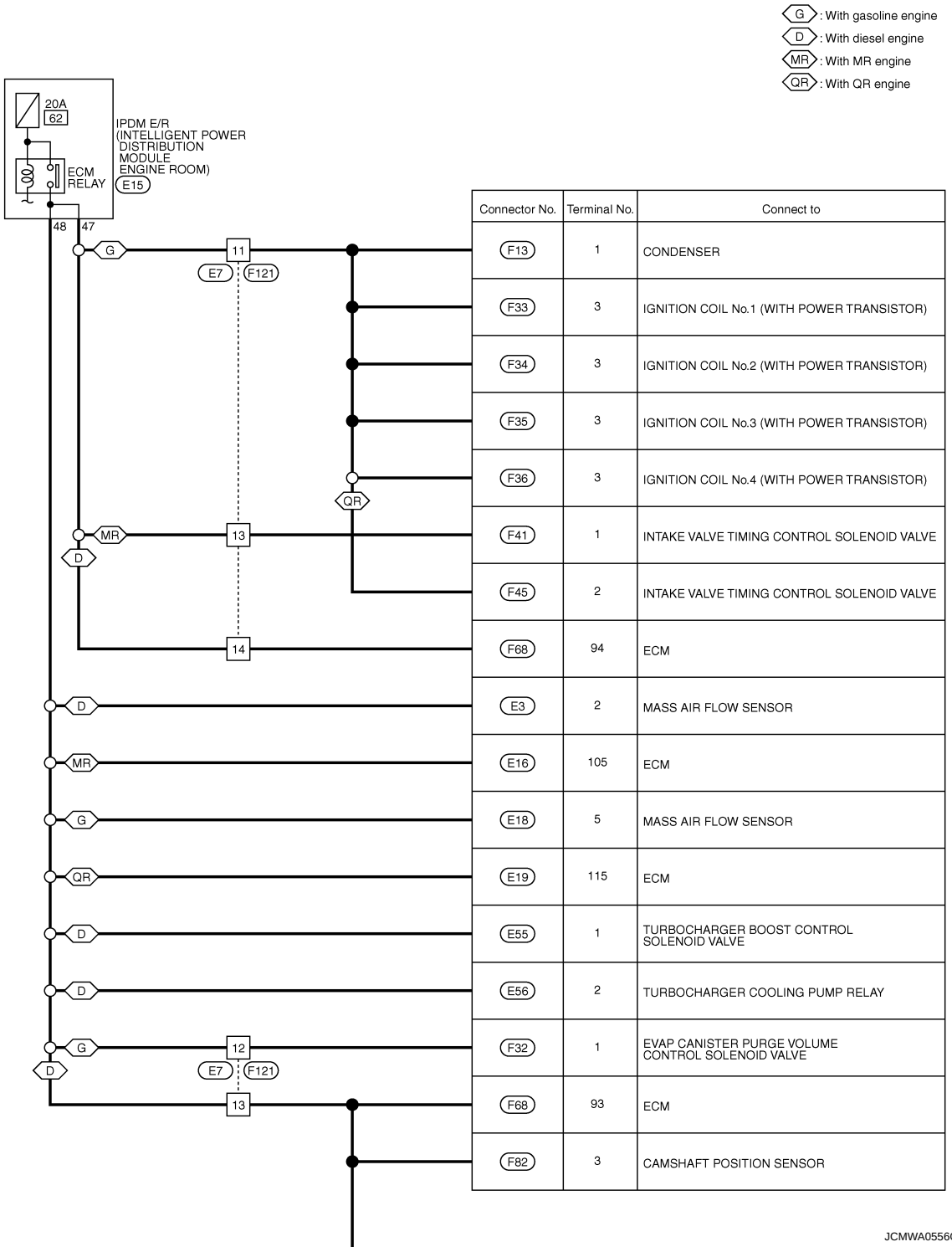
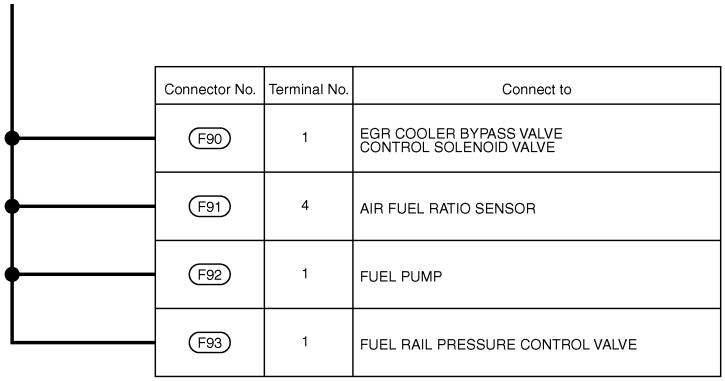
BATTERY POWER SUPPLY FUSE NO.62



Connector No.	Terminal No.	Connect to
F13	1	CONDENSER
F33	3	IGNITION COIL No.1 (WITH POWER TRANSISTOR)
F34	3	IGNITION COIL No.2 (WITH POWER TRANSISTOR)
F35	3	IGNITION COIL No.3 (WITH POWER TRANSISTOR)
F36	3	IGNITION COIL No.4 (WITH POWER TRANSISTOR)
F41	1	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F45	2	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
F68	94	ECM
E3	2	MASS AIR FLOW SENSOR
E16	105	ECM
E18	5	MASS AIR FLOW SENSOR
E19	115	ECM
E55	1	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
E56	2	TURBOCHARGER COOLING PUMP RELAY
F32	1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F68	93	ECM
F82	3	CAMSHAFT POSITION SENSOR

JCMWA0556GE



Connector No.	Terminal No.	Connect to
F90	1	EGR COOLER BYPASS VALVE CONTROL SOLENOID VALVE
F91	4	AIR FUEL RATIO SENSOR
F92	1	FUEL PUMP
F93	1	FUEL RAIL PRESSURE CONTROL VALVE

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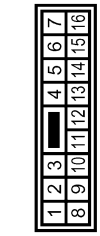
BATTERY POWER SUPPLY FUSE NO.62

Connector No.	E3
Connector Name	MASS AIR FLOW SENSOR
Connector Type	RHS6FB

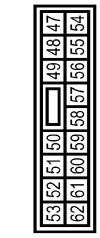
Terminal No.	Color of Wire	Signal Name [Specification]
2	L	–

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



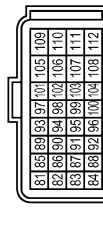
Terminal No.	Color of Wire	Signal Name [Specification]
I1	GR	–
I2	R	–
I3	BR	–[With MR engine]
I3	G	–[With diesel engine]
I4	V	–[With diesel engine]

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
47	GR	–[With gasoline engine]
47	V	–[With diesel engine]
48	R	–[With gasoline engine]
48	G	–[With diesel engine]

Connector No.	E16
Connector Name	ECM
Connector Type	MAA24FB-MEA8-LH



Terminal No.	Color of Wire	Signal Name [Specification]
105	R	VBR

Connector No.	E18
Connector Name	MASS AIR FLOW SENSOR
Connector Type	RHS6FB

Terminal No.	Color of Wire	Signal Name [Specification]
5	P	–[With MR engine]
5	R	–[With QR engine]

Connector No.	E19
Connector Name	ECM
Connector Type	BAA32FB-AHY8

Terminal No.	Color of Wire	Signal Name [Specification]
115	R	VBR

Connector No.	E55
Connector Name	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
Connector Type	BS02FB-AHY-S

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

Connector No.	E56
Connector Name	TURBOCHARGER COOLING PUMP RELAY
Connector Type	MS02FL-M2

Terminal No.	Color of Wire	Signal Name [Specification]
2	G	–

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BATTERY POWER SUPPLY FUSE NO.62

Connector No.	F13
Connector Name	CONDENSER
Connector Type	M02FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	–

Connector No.	F32
Connector Name	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
Connector Type	E02FL-RS-LGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	–[Without QR engine]
1	P	–[With QR engine]

Connector No.	F33
Connector Name	IGNITION COIL No.1 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	–

Connector No.	F34
Connector Name	IGNITION COIL No.2 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	–

Connector No.	F35
Connector Name	IGNITION COIL No.3 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	–

Connector No.	F36
Connector Name	IGNITION COIL No.4 (WITH POWER TRANSISTOR)
Connector Type	E03FGY-RS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	BR	–

Connector No.	F41
Connector Name	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
Connector Type	E02FG-RS-LGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	–

Connector No.	F45
Connector Name	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
Connector Type	E02FG-RS-LGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

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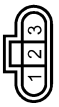
BATTERY POWER SUPPLY FUSE NO.62

Connector No.	F68
Connector Name	ECM
Connector Type	MAA40FBR-MEA8-RH

Terminal No.	Color of Wire	Signal Name [Specification]
93	G	VBATT
94	V	VBATT

Connector No.	F82
Connector Name	CAMSHAFT POSITION SENSOR
Connector Type	FEA03FB



Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–

Connector No.	F90
Connector Name	EGR COOLER BYPASS VALVE CONTROL SOLENOID VALVE
Connector Type	BS02FB-AHY-S

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

Connector No.	F91
Connector Name	AIR FUEL RATIO SENSOR
Connector Type	AEU06FB

Terminal No.	Color of Wire	Signal Name [Specification]
4	G	HEATER+

Connector No.	F92
Connector Name	FUEL PUMP
Connector Type	BOSCH 1928404072

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

Connector No.	F93
Connector Name	FUEL RAIL PRESSURE CONTROL VALVE
Connector Type	BOSCH 1928404072

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

Connector No.	F121
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	–
12	R	–[With MR engine]
12	P	–[With QR engine]
13	SB	–[With MR engine]
13	G	–[With diesel engine]
14	V	–[With diesel engine]

JCMWA0560GE

Wiring Diagram - ACCESSORY POWER SUPPLY -

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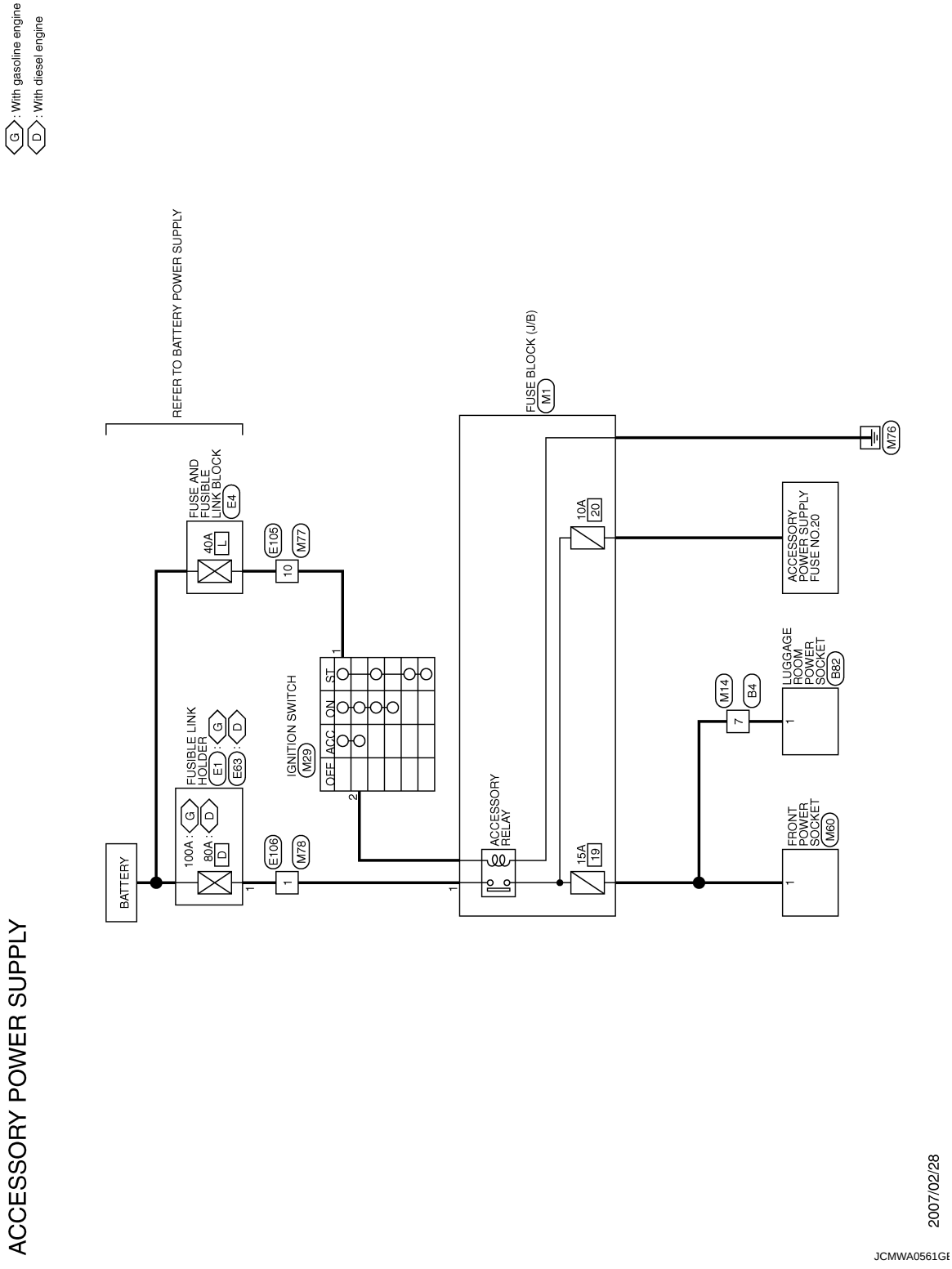

ACCESSORY POWER SUPPLY

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
7	R	–

Connector No.	B82
Connector Name	LUGGAGE ROOM POWER SOCKET
Connector Type	P02FB-Z

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

Connector No.	E1
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FGY-MC

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

Connector No.	E63
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FGY-MC

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

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

Terminal No.	Color of Wire	Signal Name [Specification]
10	L	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC

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

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	–

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

Connector No.	M14
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
7	G	–

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ACCESSORY POWER SUPPLY

Connector No.	M29
Connector Name	IGNITION SWITCH
Connector Type	M06FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	BR	–

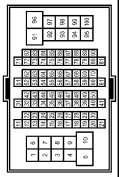
Connector No.	M60
Connector Name	FRONT POWER SOCKET
Connector Type	P02FB-Z

H.S.

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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
10	L	–

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC

H.S.

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

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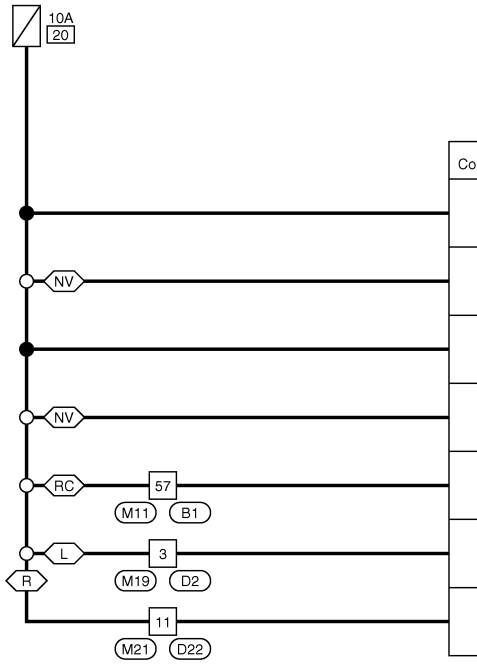
ACCESSORY POWER SUPPLY FUSE NO.20

L : LHD models
R : RHD models
NV : With navigation system
RC : With rear view camera



Connector No.	Terminal No.	Connect to
M46	7	AUDIO UNIT
M49	20	DISPLAY UNIT
M65	4	BCM (BODY CONTROL MODULE)
M71	5	NAVI CONTROL UNIT
B60	30	CAMERA CONTROL UNIT
D8	7	DOOR MIRROR REMOTE CONTROL SWITCH
D28	7	DOOR MIRROR REMOTE CONTROL SWITCH

2007/02/28

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ACCESSORY POWER SUPPLY FUSE NO.20

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
57	W	–

Connector No.	B60
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH32FW-NH

H.S.

2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32
1	3	5	7	9	11	13	15	17	19	21	23	25	27	29	31

Terminal No.	Color of Wire	Signal Name [Specification]
30	W	ACC

Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	–

Connector No.	D8
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FW

H.S.

1	2	3	4		5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
7	SB	+ACC

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name [Specification]
11	W	–

Connector No.	D28
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK16FW

H.S.

1	2	3	4		5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
7	W	+ACC

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
57	SB	–

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	–

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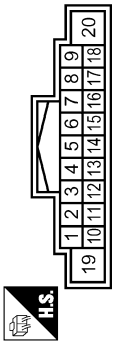
ACCESSORY POWER SUPPLY FUSE NO.20

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

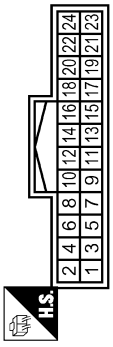
Terminal No.	Color of Wire	Signal Name [Specification]
11	SB	–

Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2



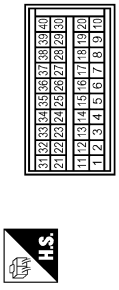
Terminal No.	Color of Wire	Signal Name [Specification]
7	SB	ACC

Connector No.	M49
Connector Name	DISPLAY UNIT
Connector Type	TH24FW-NH



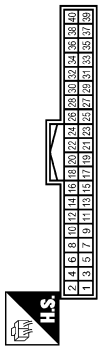
Terminal No.	Color of Wire	Signal Name [Specification]
20	SB	ACC

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB



Terminal No.	Color of Wire	Signal Name [Specification]
4	SB	ACC SW

Connector No.	M71
Connector Name	NAVI CONTROL UNIT
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
5	SB	ACC

JCMWA0566GE

Wiring Diagram - IGNITION POWER SUPPLY -

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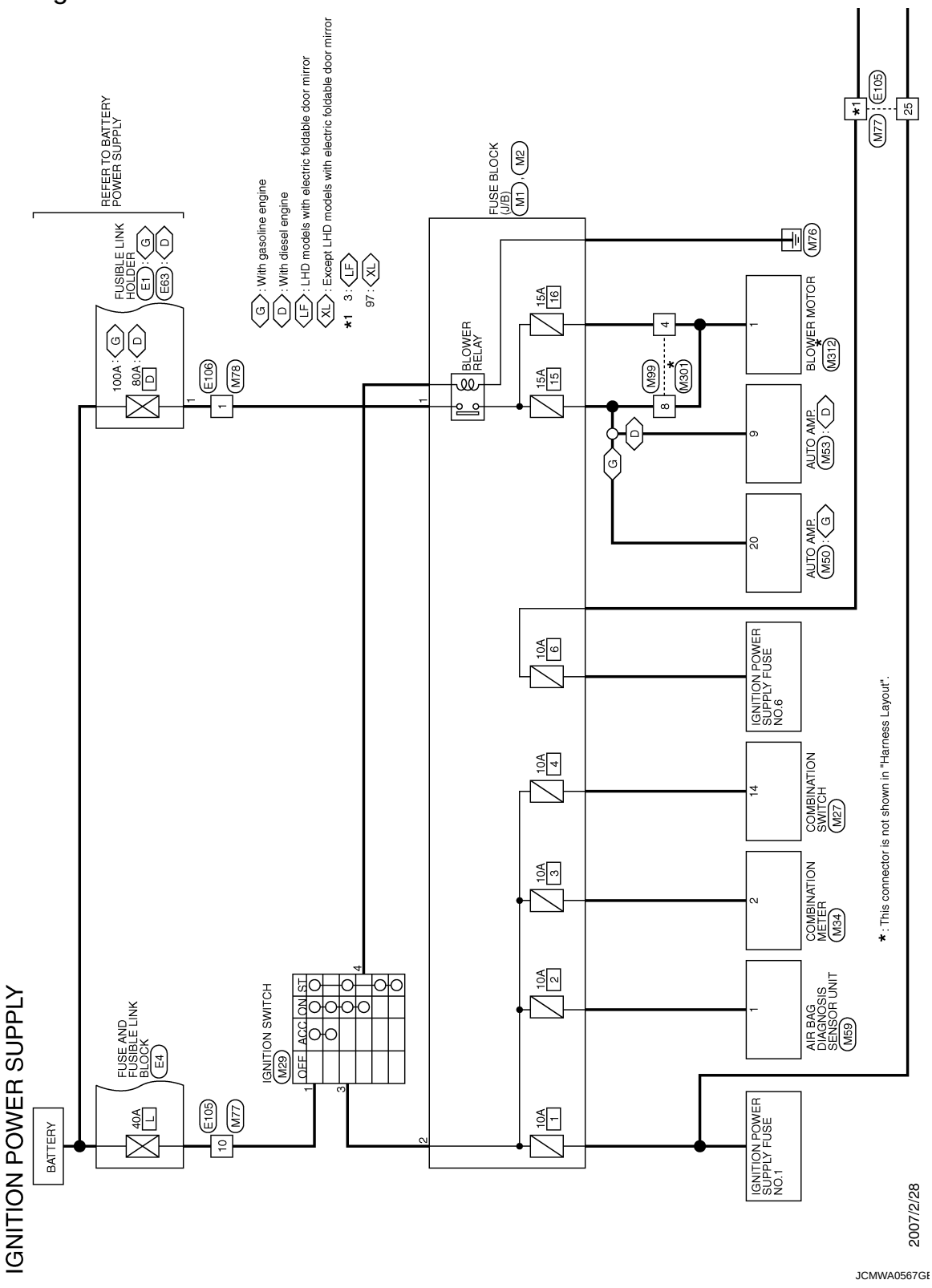
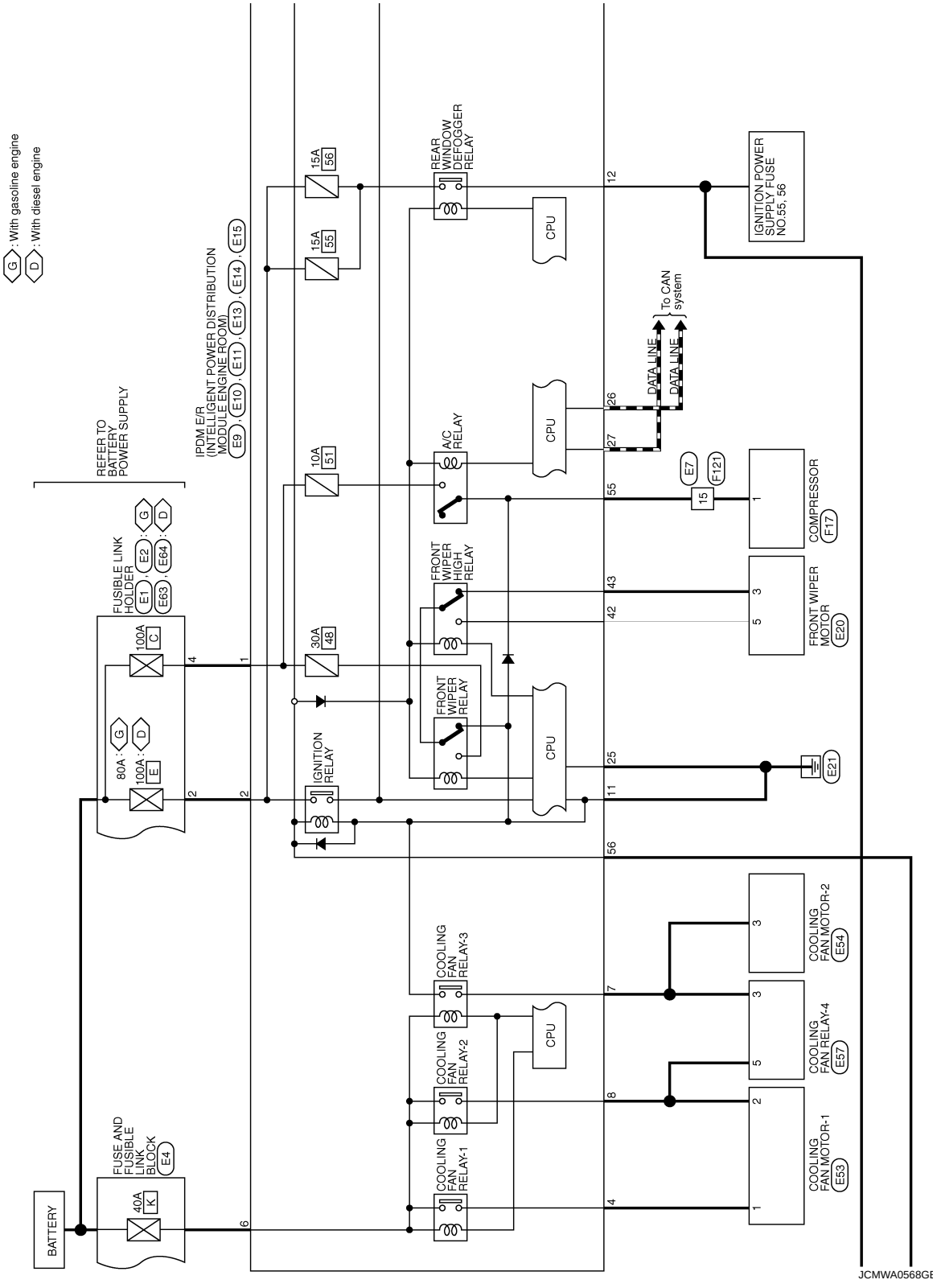
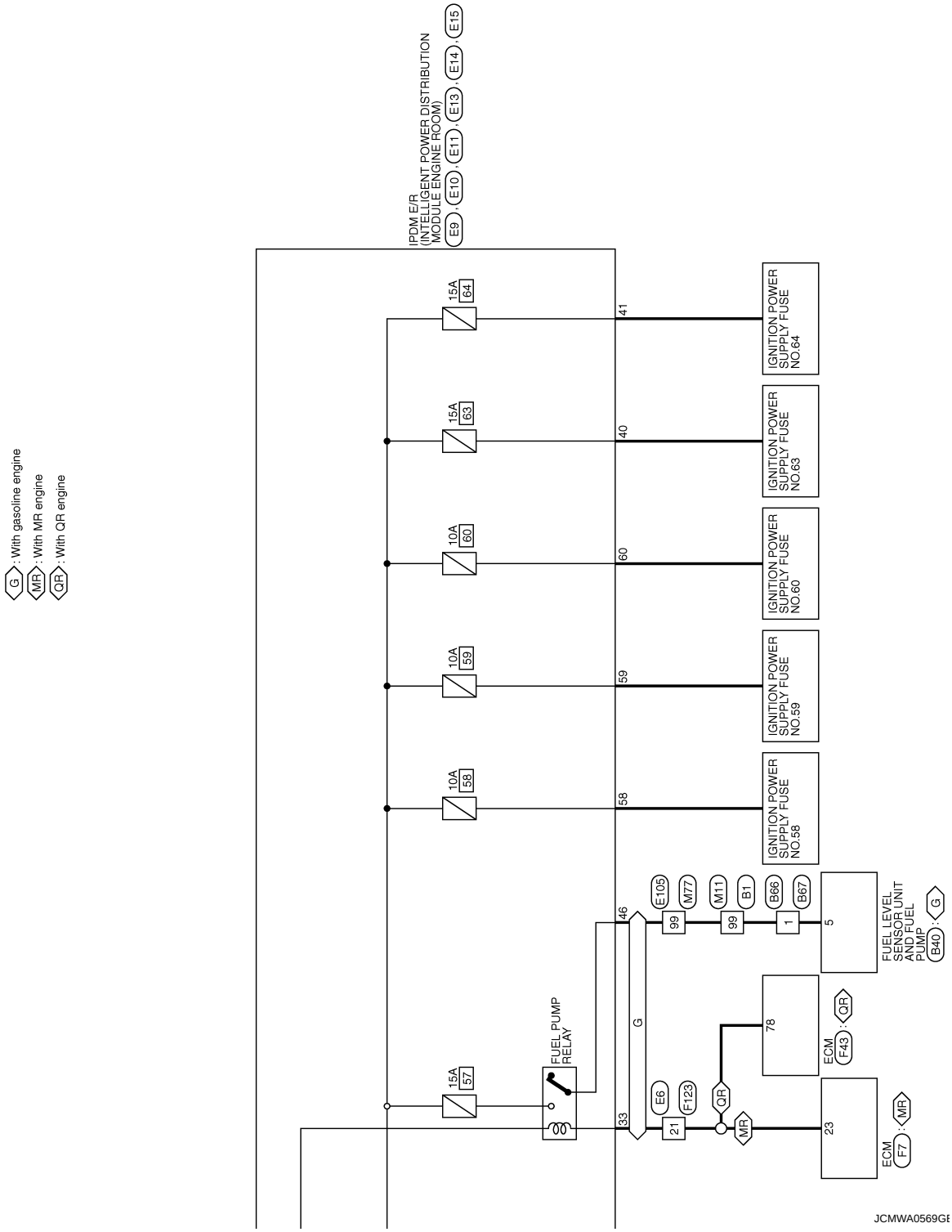


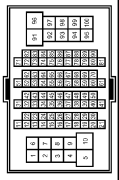

G : With gasoline engine
D : With diesel engine
REFER TO BATTERY POWER SUPPLY
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9, E10, E11, E13, E14, E15
FUSIBLE LINK HOLDER
E1, E63
E2 : G
E64 : D
100A C
80A : G
100A : D
100A E
FUSE AND FUSIBLE LINK BLOCK E4
40A K
BATTERY
15A 56
15A 55
10A 51
30A 48
IGNITION RELAY
REAR WINDOW DEFOGGER RELAY
A/C RELAY
FRONT WIPER HIGH RELAY
FRONT WIPER RELAY
COOLING FAN RELAY-3
COOLING FAN RELAY-2
COOLING FAN RELAY-1
CPU
IGNITION POWER SUPPLY FUSE NO.55, 56
DATA LINE
DATA LINE
To CAN system
E7
F121
15
COMPRESSOR F17
FRONT WIPER MOTOR E20
E21
COOLING FAN MOTOR-2 E54
COOLING FAN RELAY-4 E57
COOLING FAN MOTOR-1 E53
JCMWA0568GE


G : With gasoline engine
MR : With MR engine
QR : With QR engine
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9 , E10 , E11 , E13 , E14 , E15
15A 64
15A 63
10A 60
10A 59
10A 58
15A 57
41
40
60
59
58
46
33
IGNITION POWER SUPPLY FUSE NO.64
IGNITION POWER SUPPLY FUSE NO.63
IGNITION POWER SUPPLY FUSE NO.60
IGNITION POWER SUPPLY FUSE NO.59
IGNITION POWER SUPPLY FUSE NO.58
FUEL PUMP RELAY
E105
M77
M11
B1
B66
B67
99
99
1
5
FUEL LEVEL SENSOR UNIT AND FUEL PUMP
B40
G
E6
F123
21
QR
MR
78
23
ECM
F43
F7
JCMWA0569GB

IGNITION POWER SUPPLY

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

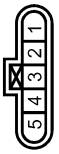
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
99	R	–

Connector No.	B40
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
Connector Type	E05FGY-RS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
5	R	–

Connector No.	B66
Connector Name	WIRE TO WIRE
Connector Type	NS04FW-CS

H.S.

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

Connector No.	B67
Connector Name	WIRE TO WIRE
Connector Type	NS04MW-CS

H.S.

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

Connector No.	E1
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FGY-MC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	G	–

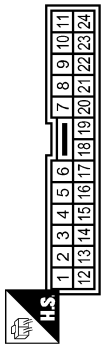
Connector No.	E2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FBR-MC-B

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	–

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-IV

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
21	GR	–[With gasoline engine]

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
15	O	–

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IGNITION POWER SUPPLY

Connector No.	E9
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	L02FB-MC

H.S.

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

Connector No.	E10
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	–
6	BR	–
7	P	–
8	G	–

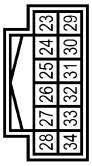
Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
11	B	–
12	O	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	TH12FW-NH

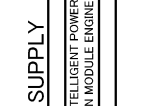
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
25	B	–
26	P	–
27	L	–
33	GR	–

Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
40	V	–
41	LG	–
42	L	–
43	G	–
46	W	–

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
55	O	–
56	L	–
58	LG	–[Except M/T]
58	Y	–[With M/T]
59	GR	–
60	SB	–

Connector No.	E20
Connector Name	FRONT WIPER MOTOR
Connector Type	HS05FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–
5	L	–

Connector No.	E53
Connector Name	COOLING FAN MOTOR-1
Connector Type	RS04FGY-PR

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
2	G	–

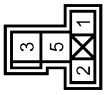
JCMWA0571GB

IGNITION POWER SUPPLY

Connector No.	E54
Connector Name	COOLING FAN MOTOR-2
Connector Type	RS04FGY-PR

Terminal No.	Color of Wire	Signal Name [Specification]
3	P	–

Connector No.	E57
Connector Name	COOLING FAN RELAY-4
Connector Type	MS02FL-M2



Terminal No.	Color of Wire	Signal Name [Specification]
3	P	–
5	G	–

Connector No.	E63
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FGY-MC

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
2	G	–

Connector No.	E64
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FBR-MC-B

Terminal No.	Color of Wire	Signal Name [Specification]
4	R	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	–
10	L	–
25	L	–
97	G	–
99	W	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC

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

Connector No.	F7
Connector Name	ECM
Connector Type	MAA24FGY-MEA8-RH

Terminal No.	Color of Wire	Signal Name [Specification]
23	L	FPR

Connector No.	F17
Connector Name	COMPRESSOR
Connector Type	RH02FB

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–

JCMWA0572GB

IGNITION POWER SUPPLY

Connector No.	F43
Connector Name	ECM
Connector Type	BAA76FB-AHY5

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
78	L	FPR

Connector No.	M2
Connector Name	FUSE BLOCK (J/B)
Connector Type	–

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	P	–

Connector No.	F121
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
15	Y	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
99	R	–

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
21	L	—[With gasoline engine]

Connector No.	M27
Connector Name	COMBINATION SWITCH
Connector Type	TK16FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
14	W	IGN

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	–

H.S.

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

Connector No.	M29
Connector Name	IGNITION SWITCH
Connector Type	M06FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	–
3	P	–
4	Y	–

JCMWA0573GB

IGNITION POWER SUPPLY

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	P	IGN

Connector No.	M50
Connector Name	AUTO AMP.
Connector Type	TK20FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
20	Y	FR/IGN 2

Connector No.	M53
Connector Name	AUTO AMP.
Connector Type	SAB40FW

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
9	Y	FR/IGN 2

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK20FY-EX-SC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	IGN

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	–
10	L	–
25	W	–
97	G	–
99	R	–

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC

H.S.

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

Connector No.	M99
Connector Name	WIRE TO WIRE
Connector Type	M08FW-GY-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	–
8	Y	–

Connector No.	M301
Connector Name	WIRE TO WIRE
Connector Type	M08MW-GY-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	Y	–
8	Y	–

JCMWA0574GB

IGNITION POWER SUPPLY

Connector No.	M312
Connector Name	BLOWER MOTOR
Connector Type	M02FW-LC

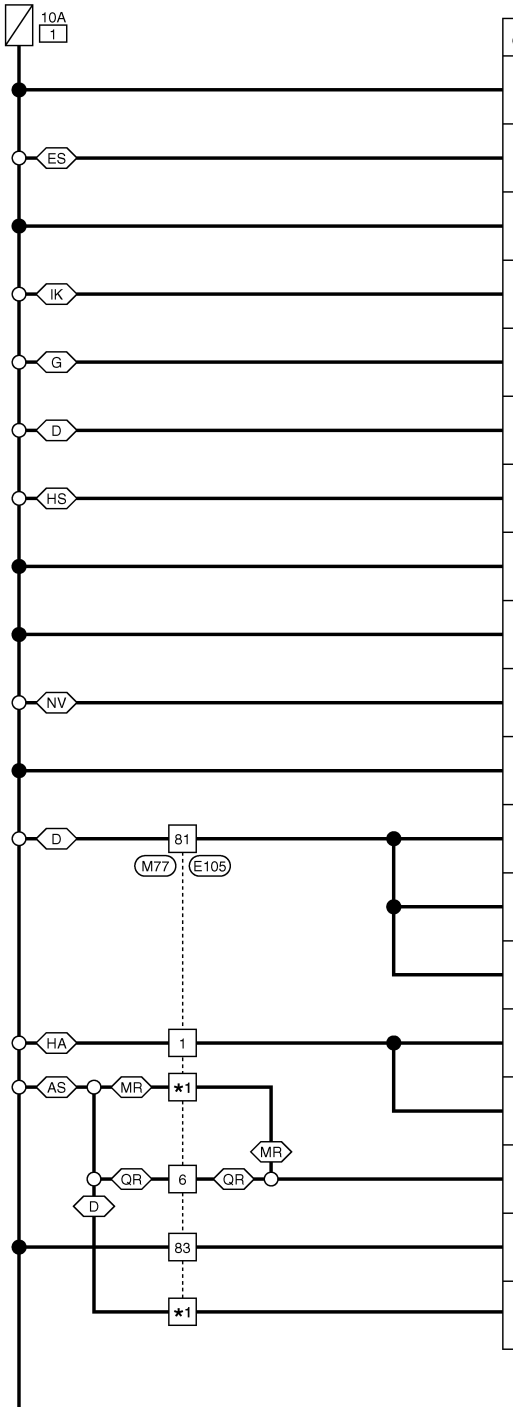
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–

JCMWA0575GE

IGNITION POWER SUPPLY FUSE NO.1

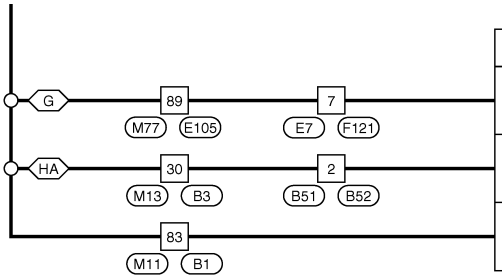
G : With gasoline engine
D : With diesel engine
MR : With MR engine
QR : With QR engine
IK : With Intelligent Key
AS : With ASCD
HA : With headlamp auto aiming
HS : With heated seat
NV : With navigation system
ES : With ESP
OE : Without ESP

*1 6 : ES
25 : OE



Connector No.	Terminal No.	Connect to
M4	8	DATA LINK CONNECTOR
M30	1	STEERING ANGLE SENSOR
M37	3	EPS CONTROL UNIT
M40	6	INTELLIGENT KEY UNIT
M50	1	AUTO AMP.
M53	21	AUTO AMP.
M58	1	HEATED SEAT RELAY
M64	17	FRONT SEAT BELT WARNING UNIT
M65	3	BCM (BODY CONTROL MODULE)
M72	63	NAVI CONTROL UNIT
M87	1	REAR SEAT BELT WARNING LAMP
E66	2	PTC RELAY-1
E67	2	PTC RELAY-2
E68	2	PTC RELAY-3
E73	1	HEADLAMP AIMING MOTOR LH
E76	1	HEADLAMP AIMING MOTOR RH
E112	1	ASCD BRAKE SWITCH
E115	3	STOP LAMP SWITCH
E119	1	BRAKE PEDAL POSITION SWITCH

JCMWA0576GE



Connector No.	Terminal No.	Connect to
F61	3	COMPRESSOR
B43	4	AUTO LEVELIZER CONTROL UNIT
B49	10	REAR SEAT BELT WARNING UNIT

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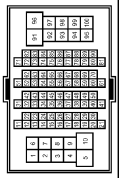
IGNITION POWER SUPPLY FUSE NO.1

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

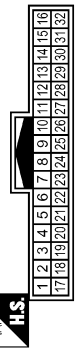
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
83	W	–

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH

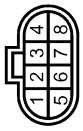
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
30	W	–

Connector No.	B43
Connector Name	AUTO LEVELIZER CONTROL UNIT
Connector Type	AEX08FB

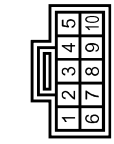
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	W	IGN

Connector No.	B49
Connector Name	REAR SEAT BELT WARNING UNIT
Connector Type	TK10FGY

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
10	W	IGN

Connector No.	B51
Connector Name	WIRE TO WIRE
Connector Type	TH04FW-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	W	–

Connector No.	B52
Connector Name	WIRE TO WIRE
Connector Type	TH04MW-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	W	–

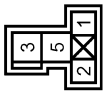
Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
7	V	–[With gasoline engine]

Connector No.	E66
Connector Name	PTC RELAY-1
Connector Type	MS02FL-M2

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	W	–

JCMWA0578GE

IGNITION POWER SUPPLY FUSE NO.1

Connector No.	E67
Connector Name	PTC RELAY-2
Connector Type	MS02FL-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	W	–

Connector No.	E68
Connector Name	PTC RELAY-3
Connector Type	MS02FL-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	W	–

Connector No.	E73
Connector Name	HEADLAMP AIMING MOTOR LH
Connector Type	RK03FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–

Connector No.	E76
Connector Name	HEADLAMP AIMING MOTOR RH
Connector Type	RK03FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	P	–
6	W	–
25	L	–
81	W	–
83	R	–
89	V	–

Connector No.	E112
Connector Name	ASCD BRAKE SWITCH
Connector Type	M02FBR-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	E115
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	–

Connector No.	E119
Connector Name	BRAKE PEDAL POSITION SWITCH
Connector Type	M02FBR-LC

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

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IGNITION POWER SUPPLY FUSE NO.1

Connector No.	F61
Connector Name	COMPRESSOR
Connector Type	RK02FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–

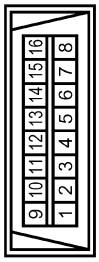
Connector No.	F121
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
7	W	–

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BD16FW

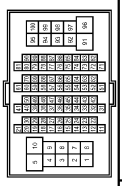
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
8	W	–

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
83	W	–

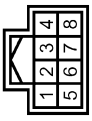
Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
30	W	–

Connector No.	M30
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH08FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	IGN

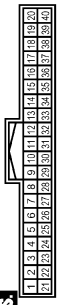
Connector No.	M37
Connector Name	EPS CONTROL UNIT
Connector Type	Molex 98545-0001

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–

Connector No.	M40
Connector Name	INTELLIGENT KEY UNIT
Connector Type	TH40FW-NH

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
6	W	IGN SW

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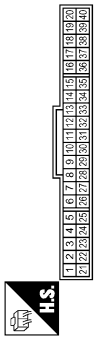
IGNITION POWER SUPPLY FUSE NO.1

Connector No.	M50
Connector Name	AUTO AMP.
Connector Type	TK20FGY

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	IGN

Connector No.	M53
Connector Name	AUTO AMP.
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	W	IGN

Connector No.	M58
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2-LC

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	–

Connector No.	M64
Connector Name	FRONT SEAT BELT WARNING UNIT
Connector Type	TK20FGY

Terminal No.	Color of Wire	Signal Name [Specification]
17	W	IGN

Connector No.	M65
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	AAB40FB

Terminal No.	Color of Wire	Signal Name [Specification]
3	W	IGN SW

Connector No.	M72
Connector Name	NAVI CONTROL UNIT
Connector Type	TH32FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
63	W	IGN

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–
6	W	–
25	W	–
81	W	–
83	W	–
89	W	–

Connector No.	M87
Connector Name	REAR SEAT BELT WARNING LAMP
Connector Type	TH04FW-NH

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

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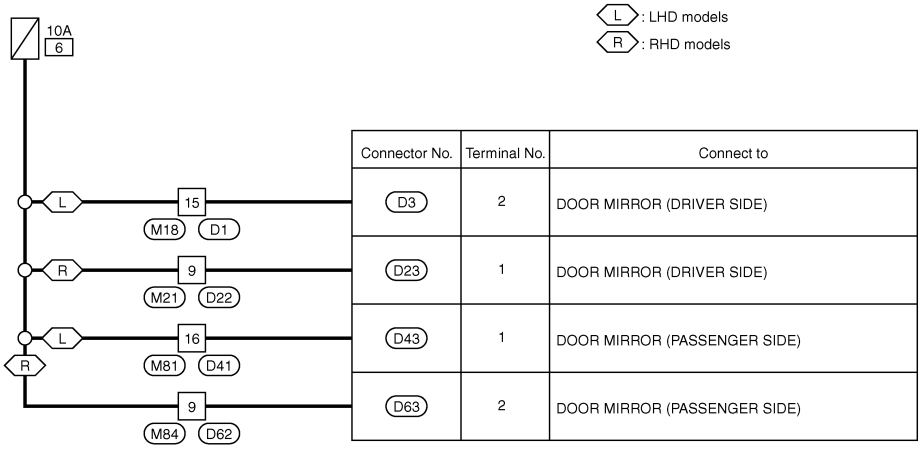
IGNITION POWER SUPPLY FUSE NO.6



Connector No.	Terminal No.	Connect to
D3	2	DOOR MIRROR (DRIVER SIDE)
D23	1	DOOR MIRROR (DRIVER SIDE)
D43	1	DOOR MIRROR (PASSENGER SIDE)
D63	2	DOOR MIRROR (PASSENGER SIDE)

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IGNITION POWER SUPPLY FUSE NO.6

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.

12	11	10	9	8	7	6	5	4	3	2	1	13
24	23	22	21	20	19	18	17	16	15	14		

Terminal No.	Color of Wire	Signal Name [Specification]
15	GR	–

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH16MW-NH

H.S.

8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name [Specification]
9	GR	–

Connector No.	D23
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH08MW-NH

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH

H.S.

12	11	10	9	8	7	6	5	4	3	2	1	13
24	23	22	21	20	19	18	17	16	15	14		

Terminal No.	Color of Wire	Signal Name [Specification]
16	GR	–

Connector No.	D43
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH08MW-NH

H.S.

4	3	2	1
8	7	6	5

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–

Connector No.	D62
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

7	6	5	4		3	2	1
16	15	14	13	12	11	10	9	8

Terminal No.	Color of Wire	Signal Name [Specification]
9	GR	–

Connector No.	D63
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH16MW-NH

H.S.

8	7	6	5	4	3	2	1
16	15	14	13	12	11	10	9

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

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IGNITION POWER SUPPLY FUSE NO.6

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
15	GR	–

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
9	GR	–

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TH24MW-NH

H.S.

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
16	GR	–

Connector No.	M84
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

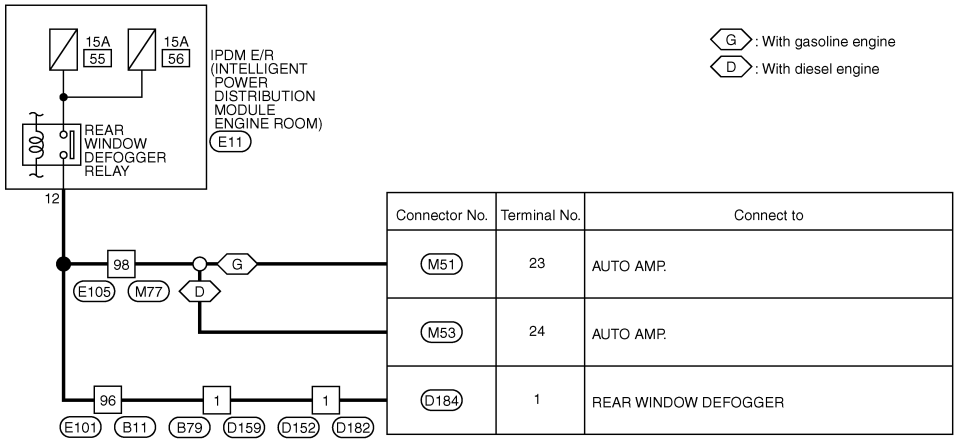
H.S.

1	2	3		4	5	6	7
8	9	10	11	12	13	14	15	16

Terminal No.	Color of Wire	Signal Name [Specification]
9	GR	–

JCMWA0584GE

IGNITION POWER SUPPLY FUSE NO.55, 56



Connector No.	Terminal No.	Connect to
M51	23	AUTO AMP.
M53	24	AUTO AMP.
D184	1	REAR WINDOW DEFOGGER

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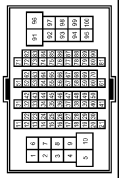
JCMWA0585GE

IGNITION POWER SUPPLY FUSE NO.55, 56

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
96	G	–

Connector No.	B79
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

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

Connector No.	D152
Connector Name	WIRE TO WIRE
Connector Type	M02FW-GY-LC

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

Connector No.	D159
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

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

Connector No.	D182
Connector Name	WIRE TO WIRE
Connector Type	M02MW-GY-LC

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

Connector No.	D184
Connector Name	REAR WINDOW DEFOGGER
Connector Type	M02MW-LC

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

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

Terminal No.	Color of Wire	Signal Name [Specification]
12	O	–

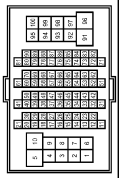
Connector No.	E101
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

Terminal No.	Color of Wire	Signal Name [Specification]
96	O	–

JCMWA0586GE

IGNITION POWER SUPPLY FUSE NO.55, 56

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

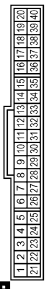


Terminal No.	Color of Wire	Signal Name [Specification]
98	G	–

Connector No.	M51
Connector Name	AUTO AMP.
Connector Type	TK16FGY

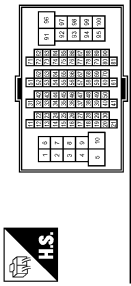
Terminal No.	Color of Wire	Signal Name [Specification]
23	G	RR/DEF F/B

Connector No.	M53
Connector Name	AUTO AMP.
Connector Type	SAB40FW



Terminal No.	Color of Wire	Signal Name [Specification]
24	G	RR/DEF F/B

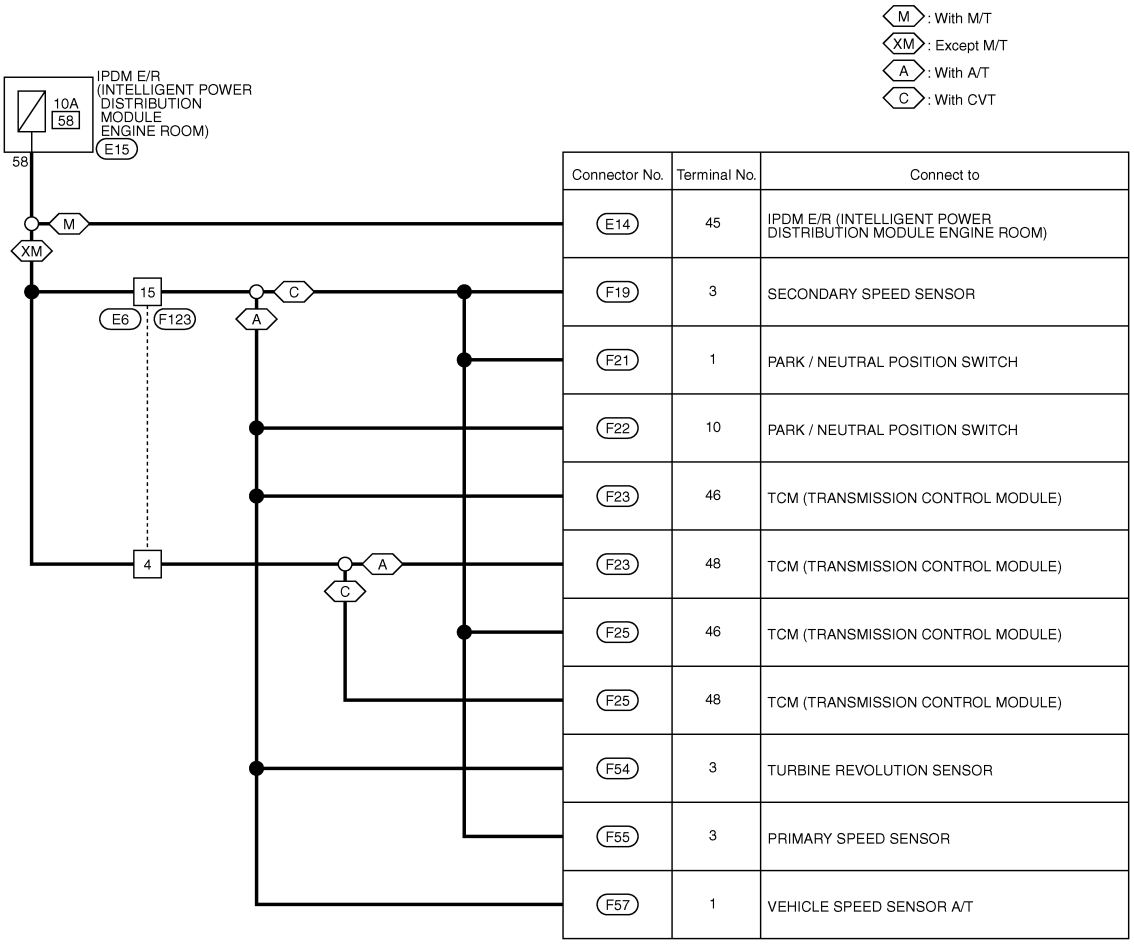
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
98	G	–

JCMWA0587GE

IGNITION POWER SUPPLY FUSE NO.58



Connector No.	Terminal No.	Connect to
E14	45	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
F19	3	SECONDARY SPEED SENSOR
F21	1	PARK / NEUTRAL POSITION SWITCH
F22	10	PARK / NEUTRAL POSITION SWITCH
F23	46	TCM (TRANSMISSION CONTROL MODULE)
F23	48	TCM (TRANSMISSION CONTROL MODULE)
F25	46	TCM (TRANSMISSION CONTROL MODULE)
F25	48	TCM (TRANSMISSION CONTROL MODULE)
F54	3	TURBINE REVOLUTION SENSOR
F55	3	PRIMARY SPEED SENSOR
F57	1	VEHICLE SPEED SENSOR A/T

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IGNITION POWER SUPPLY FUSE NO.58

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V

H.S.

1	2	3	4	5	6		7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24

Terminal No.	Color of Wire	Signal Name [Specification]
4	LG	–[Except M/T]
15	LG	–

Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS

H.S.

39	38		37	36	35
46	45	44	43	42	41	40

Terminal No.	Color of Wire	Signal Name [Specification]
45	Y	–

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

H.S.

53	52	51	50		49	48	47
62	61	60	59	58	57	56	55	54

Terminal No.	Color of Wire	Signal Name [Specification]
58	LG	–[Except M/T]
58	Y	–[With M/T]

Connector No.	F19
Connector Name	SECONDARY SPEED SENSOR
Connector Type	RK03FB

H.S.

3	2	1

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	VIGN

Connector No.	F21
Connector Name	PARK / NEUTRAL POSITION SWITCH
Connector Type	RK08FG

H.S.

7	6	4	8
5	1	2	3

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	–

Connector No.	F22
Connector Name	PARK / NEUTRAL POSITION SWITCH
Connector Type	YAZAKI 7283-8700-30

H.S.

1	2	3	4	5	6
7	8	9	10

Terminal No.	Color of Wire	Signal Name [Specification]
10	GR	–

Connector No.	F23
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	MAA40FB-MEA8-LH

H.S.

31	32	33	34	35	36	37	38	39	40	47	48
21	22	23	24	25	26	27	28	29	30	45	46
11	12	13	14	15	16	17	18	19	20	43	44
1	2	3	4	5	6	7	8	9	10	41	42

Terminal No.	Color of Wire	Signal Name [Specification]
46	GR	VIGN
48	L	VIGN

Connector No.	F25
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	MAA40FB-MEA8-LH

H.S.

31	32	33	34	35	36	37	38	39	40	47	48
21	22	23	24	25	26	27	28	29	30	45	46
11	12	13	14	15	16	17	18	19	20	43	44
1	2	3	4	5	6	7	8	9	10	41	42

Terminal No.	Color of Wire	Signal Name [Specification]
46	GR	VIGN
48	L	VIGN

JCMWA0589GB

IGNITION POWER SUPPLY FUSE NO.58

Connector No.	F54
Connector Name	TURBINE REVOLUTION SENSOR
Connector Type	RK03FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	LG	VIGN

Connector No.	F55
Connector Name	PRIMARY SPEED SENSOR
Connector Type	RK03FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
3	GR	VIGN

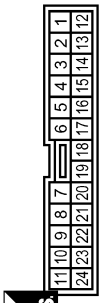
Connector No.	F57
Connector Name	VEHICLE SPEED SENSOR A/T
Connector Type	RK03FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	VIGN

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

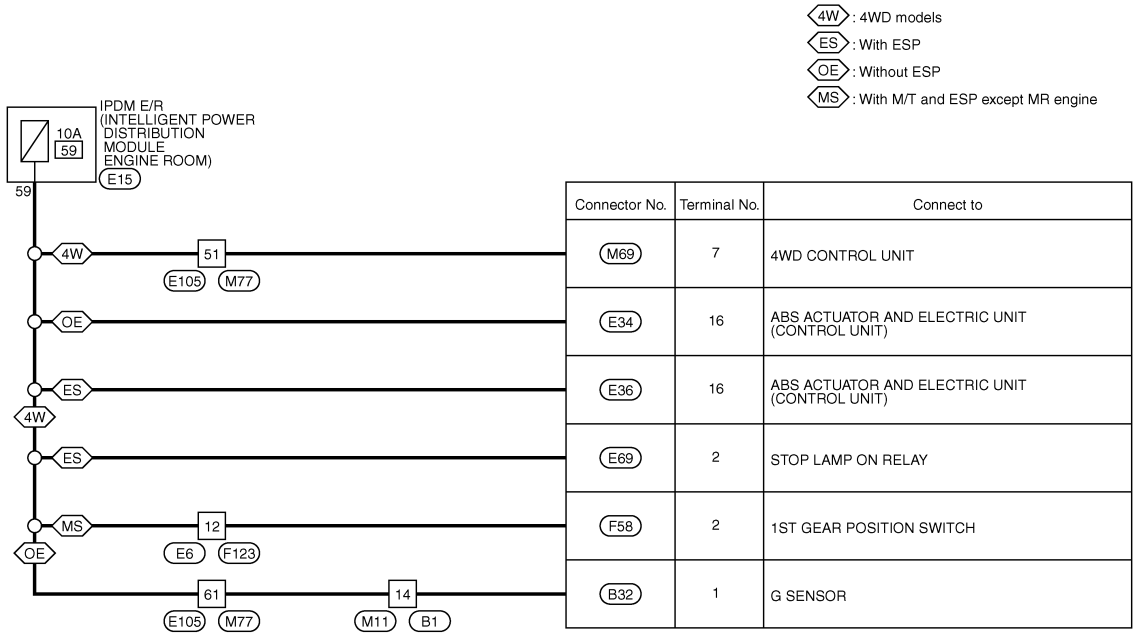
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
4	L	–
15	GR	–

JCMWA0590GE

IGNITION POWER SUPPLY FUSE NO.59



Connector No.	Terminal No.	Connect to
M69	7	4WD CONTROL UNIT
E34	16	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
E36	16	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
E69	2	STOP LAMP ON RELAY
F58	2	1ST GEAR POSITION SWITCH
B32	1	G SENSOR

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IGNITION POWER SUPPLY FUSE NO.59

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
14	GR	–

Connector No.	B32
Connector Name	G SENSOR
Connector Type	YD2205FW

H.S.

1 2 3 4 5

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	IGN

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V

H.S.

1 2 3 4 5 6 7 8 9 10 11
12 13 14 15 16 17 18 19 20 21 22 23 24

Terminal No.	Color of Wire	Signal Name [Specification]
12	GR	–[4WD models with M/T except MR engine]

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

H.S.

53 52 51 50 49 48 47
62 61 60 59 58 57 56 55 54

Terminal No.	Color of Wire	Signal Name [Specification]
59	GR	–

Connector No.	E34
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	RH28FB-NU4-DH

H.S.

1 2 3 4
5 6 7 8 9 10 11 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27 28 29 30 31 32

Terminal No.	Color of Wire	Signal Name [Specification]
16	GR	IGN

Connector No.	E36
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	RH28FB-NU4-DH

H.S.

1 2 3 4
5 6 7 8 9 10 11 12 13 14 15 16 17 18
19 20 21 22 23 24 25 26 27 28 29 30 31 32

Terminal No.	Color of Wire	Signal Name [Specification]
16	GR	IGN

Connector No.	E69
Connector Name	STOP LAMP ON RELAY
Connector Type	M06FGY-R-US

H.S.

2 1
6 7 3
4

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
51	GR	–
61	GR	–

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IGNITION POWER SUPPLY FUSE NO.59

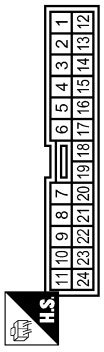
Connector No.	F58
Connector Name	1ST GEAR POSITION SWITCH
Connector Type	RK02FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	GR	–

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

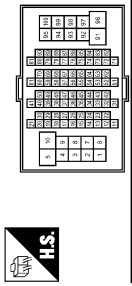
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
12	GR	– [4WD models with M/T except MR engine]

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4

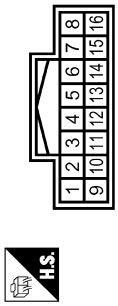
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
14	GR	–

Connector No.	M69
Connector Name	4WD CONTROL UNIT
Connector Type	TH16FW-NH

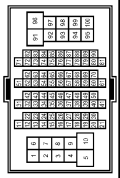
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	SB	IGN

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4

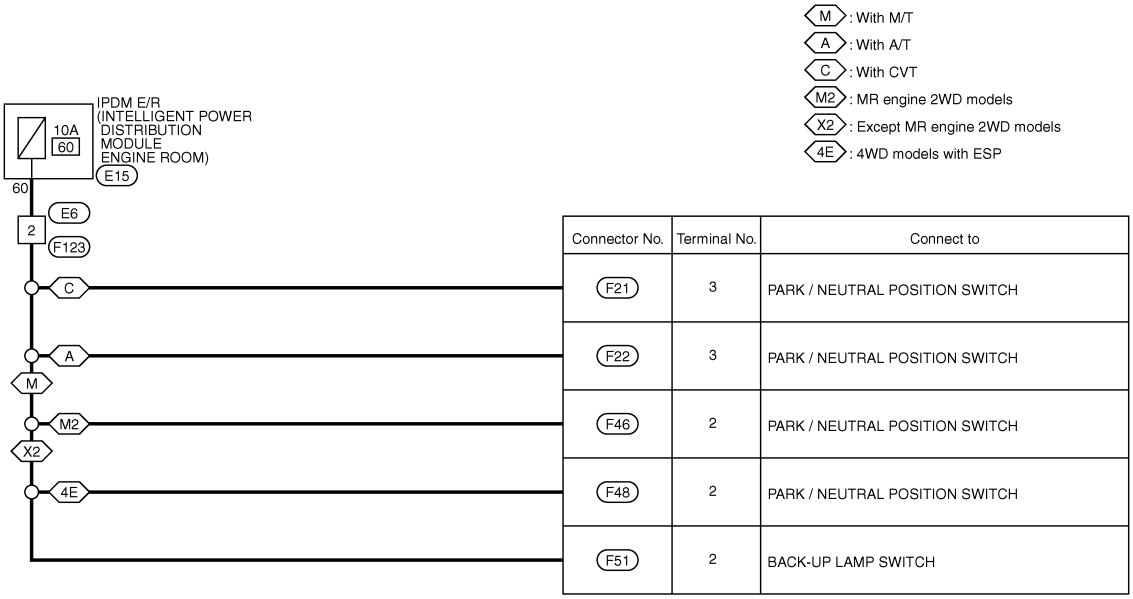
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
51	SB	–
61	GR	–

JCMWA0593GB

IGNITION POWER SUPPLY FUSE NO.60



Connector No.	Terminal No.	Connect to
F21	3	PARK / NEUTRAL POSITION SWITCH
F22	3	PARK / NEUTRAL POSITION SWITCH
F46	2	PARK / NEUTRAL POSITION SWITCH
F48	2	PARK / NEUTRAL POSITION SWITCH
F51	2	BACK-UP LAMP SWITCH

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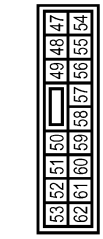
IGNITION POWER SUPPLY FUSE NO.60

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V

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

Connector No.	E15
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

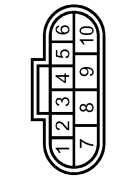


Terminal No.	Color of Wire	Signal Name [Specification]
60	SB	-

Connector No.	F21
Connector Name	PARK/NEUTRAL POSITION SWITCH
Connector Type	RK08FG

Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	VIGN

Connector No.	F22
Connector Name	PARK/NEUTRAL POSITION SWITCH
Connector Type	YAZAKI 7283-8700-30



Terminal No.	Color of Wire	Signal Name [Specification]
3	SB	VIGN

Connector No.	F46
Connector Name	PARK/NEUTRAL POSITION SWITCH
Connector Type	FEA03FG

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

Connector No.	F48
Connector Name	PARK/NEUTRAL POSITION SWITCH
Connector Type	RK02FB

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

Connector No.	F51
Connector Name	BACK-UP LAMP SWITCH
Connector Type	RK02FB

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

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

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

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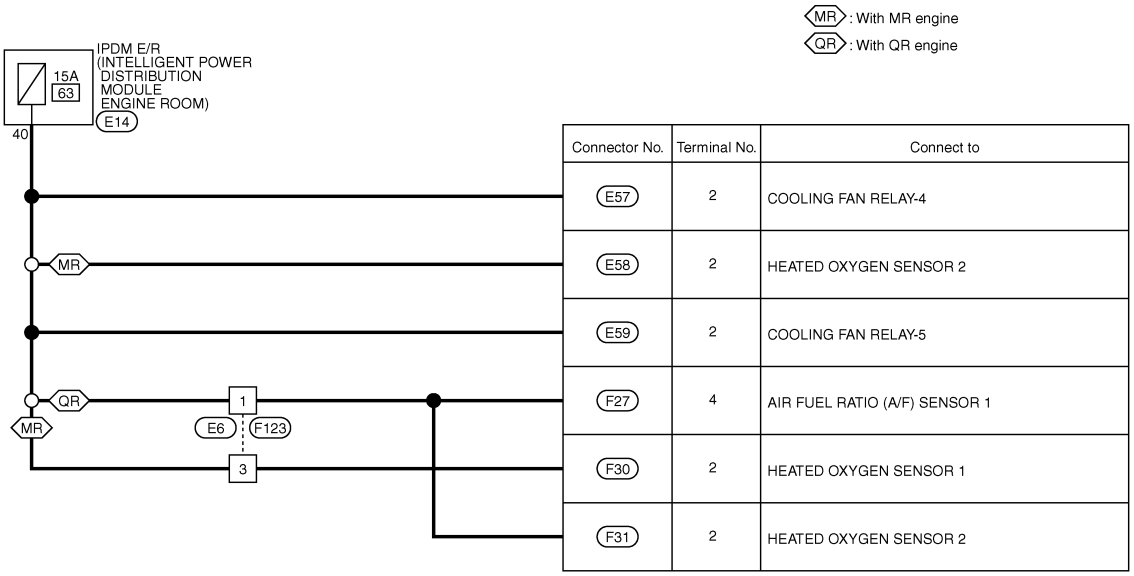
IGNITION POWER SUPPLY FUSE NO.63



Connector No.	Terminal No.	Connect to
E57	2	COOLING FAN RELAY-4
E58	2	HEATED OXYGEN SENSOR 2
E59	2	COOLING FAN RELAY-5
F27	4	AIR FUEL RATIO (A/F) SENSOR 1
F30	2	HEATED OXYGEN SENSOR 1
F31	2	HEATED OXYGEN SENSOR 2

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IGNITION POWER SUPPLY FUSE NO.63

Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–[With QR engine]
3	V	–[With MR engine]

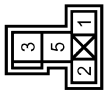
Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
40	V	–

Connector No.	E57
Connector Name	COOLING FAN RELAY-4
Connector Type	MS02FL-M2

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	O	–

Connector No.	E58
Connector Name	HEATED OXYGEN SENSOR 2
Connector Type	AFZ04FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	W	–

Connector No.	E59
Connector Name	COOLING FAN RELAY-5
Connector Type	MS02FL-M2

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	V	–

Connector No.	F27
Connector Name	AIR FUEL RATIO (A/F) SENSOR 1
Connector Type	AFZ04FGY

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	W	HEATER(+)

Connector No.	F30
Connector Name	HEATED OXYGEN SENSOR 1
Connector Type	AFZ04FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	V	–

Connector No.	F31
Connector Name	HEATED OXYGEN SENSOR 2
Connector Type	AFZ04FB

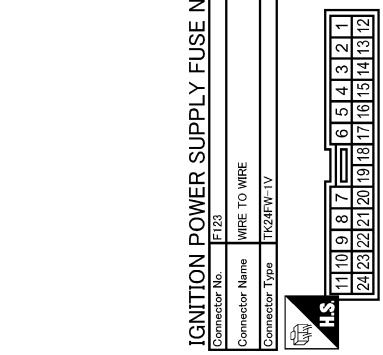
H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	BR	–

JCMWA0597GE

IGNITION POWER SUPPLY FUSE NO.63

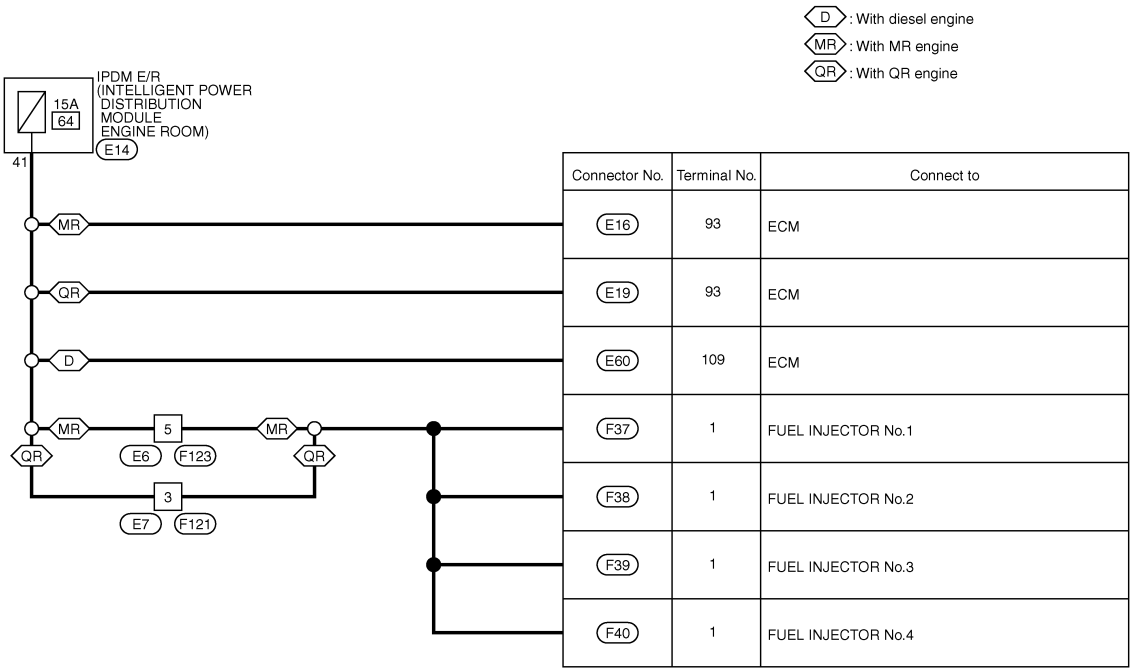
Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-[With QR engine]
3	V	-[With MR engine]

JCMWA0598GE

IGNITION POWER SUPPLY FUSE NO.64



Connector No.	Terminal No.	Connect to
E16	93	ECM
E19	93	ECM
E60	109	ECM
F37	1	FUEL INJECTOR No.1
F38	1	FUEL INJECTOR No.2
F39	1	FUEL INJECTOR No.3
F40	1	FUEL INJECTOR No.4

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JCMWA0599GE

IGNITION POWER SUPPLY FUSE NO.64

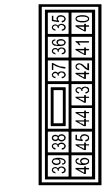
Connector No.	E6
Connector Name	WIRE TO WIRE
Connector Type	TK24MW-1V

Terminal No.	Color of Wire	Signal Name [Specification]
5	O	-[With MR engine]

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

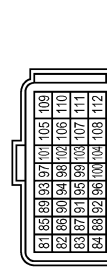
Terminal No.	Color of Wire	Signal Name [Specification]
3	O	-

Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS



Terminal No.	Color of Wire	Signal Name [Specification]
41	LG	-

Connector No.	E16
Connector Name	ECM
Connector Type	MAA24FB-MEA8-LH



Terminal No.	Color of Wire	Signal Name [Specification]
93	O	IGNSW

Connector No.	E19
Connector Name	ECM
Connector Type	BAA32FB-AHY8

Terminal No.	Color of Wire	Signal Name [Specification]
93	O	IGNSW

Connector No.	E60
Connector Name	ECM
Connector Type	MAA24FB-MEA8-LH

Terminal No.	Color of Wire	Signal Name [Specification]
109	LG	IGN

Connector No.	F37
Connector Name	FUEL INJECTOR No.1
Connector Type	HS02FGY

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

Connector No.	F38
Connector Name	FUEL INJECTOR No.2
Connector Type	HS02FGY

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

JCMWA0600GE

IGNITION POWER SUPPLY FUSE NO.64

Connector No.	F39
Connector Name	FUEL INJECTOR No.3
Connector Type	HS02FGY

H.S.

1 2

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–

Connector No.	F40
Connector Name	FUEL INJECTOR No.4
Connector Type	HS02FGY

H.S.

1 2

Terminal No.	Color of Wire	Signal Name [Specification]
1	O	–

Connector No.	F121
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS

H.S.

7 6 5 4 3 2 1
16 15 14 13 12 11 10 9 8

Terminal No.	Color of Wire	Signal Name [Specification]
3	O	–

Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

H.S.

11 10 9 8 7 6 5 4 3 2 1
24 23 22 21 20 19 18 17 16 15 14 13 12

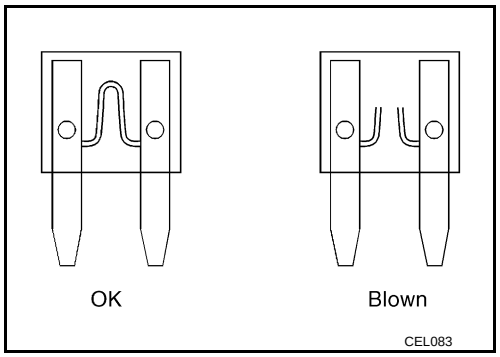
Terminal No.	Color of Wire	Signal Name [Specification]
5	O	–[With MR engine]

JCMWA0601GB

Fuse

INFOID:0000000001298656

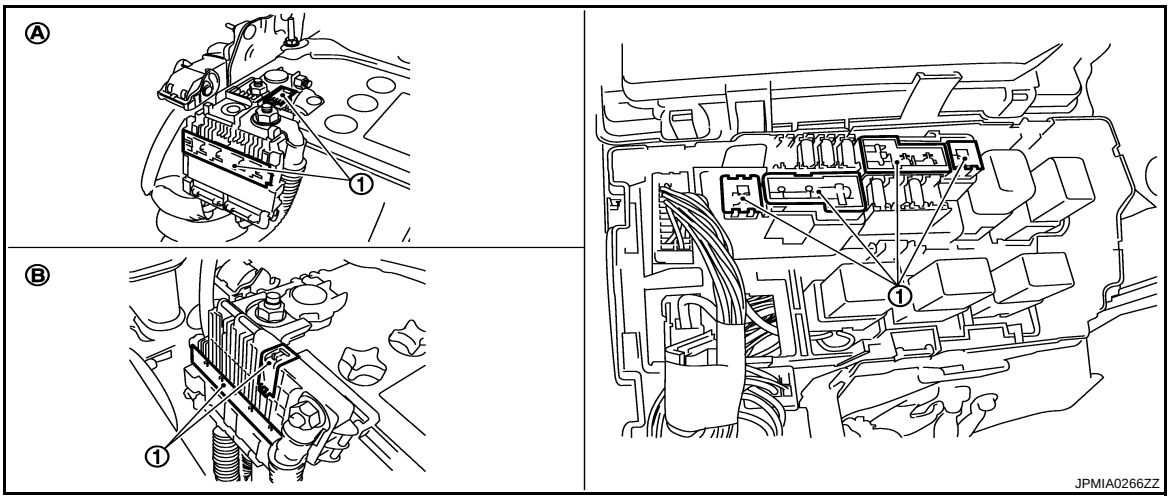
- If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.
- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for “ELECTRICAL PARTS (BAT)” if vehicle is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



Fusible Link

INFOID:0000000001298657

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

A. Gasoline engine models B. Diesel engine models

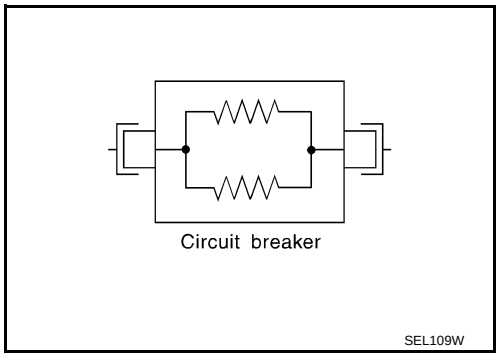
CAUTION:

- **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:0000000001298658

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



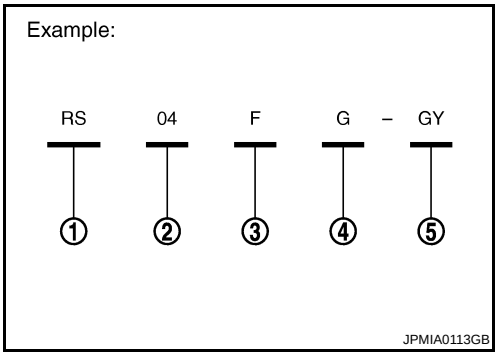
HARNESS LAYOUT

LHD

LHD : How To Read Harness Layout

INFOID:0000000001298730

1 : Connector model
2 : Cavity
3 : Male (M) and female (F) terminals
4 : Connector color
5 : Special type



CONNECTOR SYMBOL

Main symbols of connector (in Harness Layout) are indicated in the below.

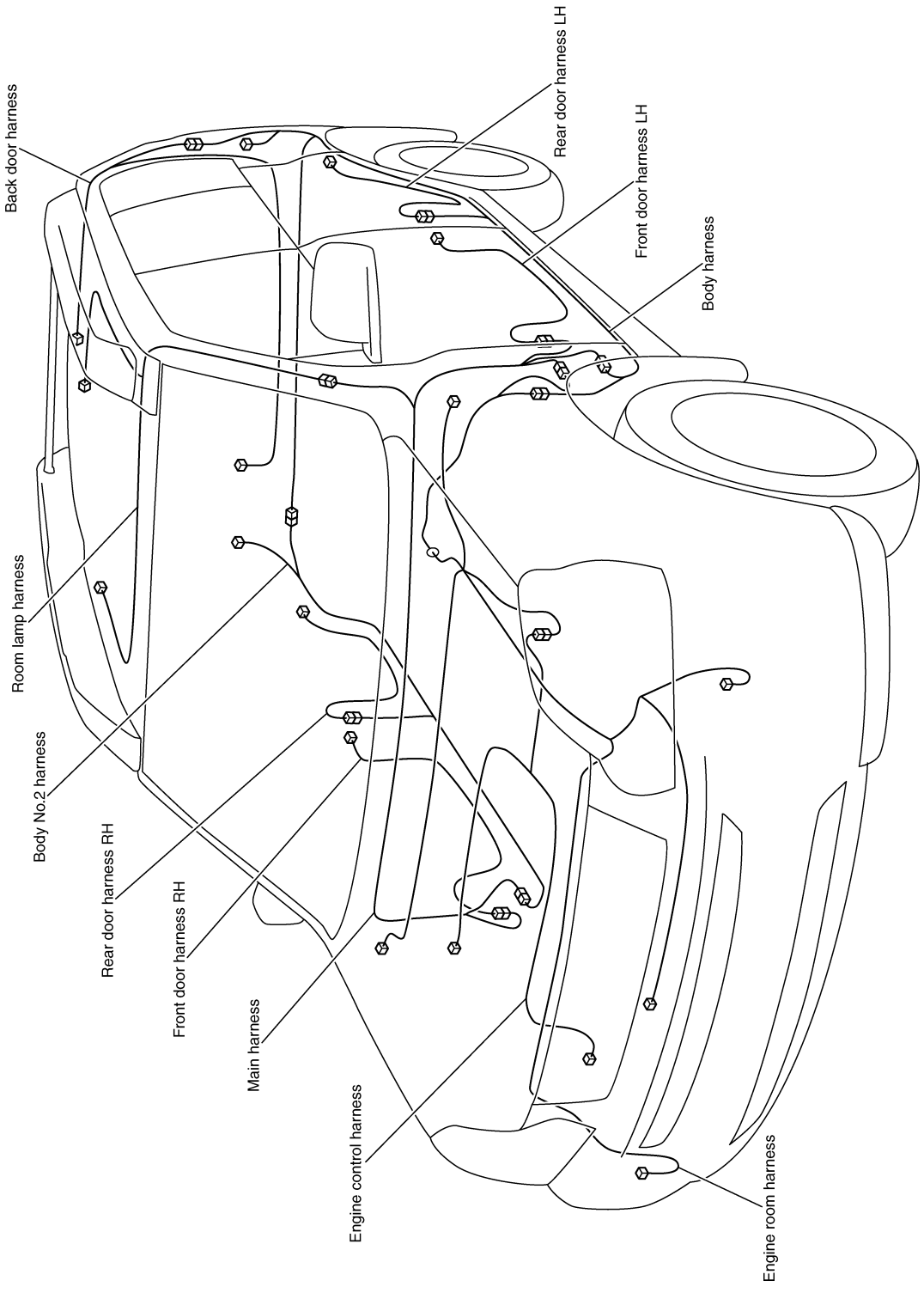
Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
Connector symbol				
Ground terminal etc.	—			

JPMIA0114GB

LHD : Outline

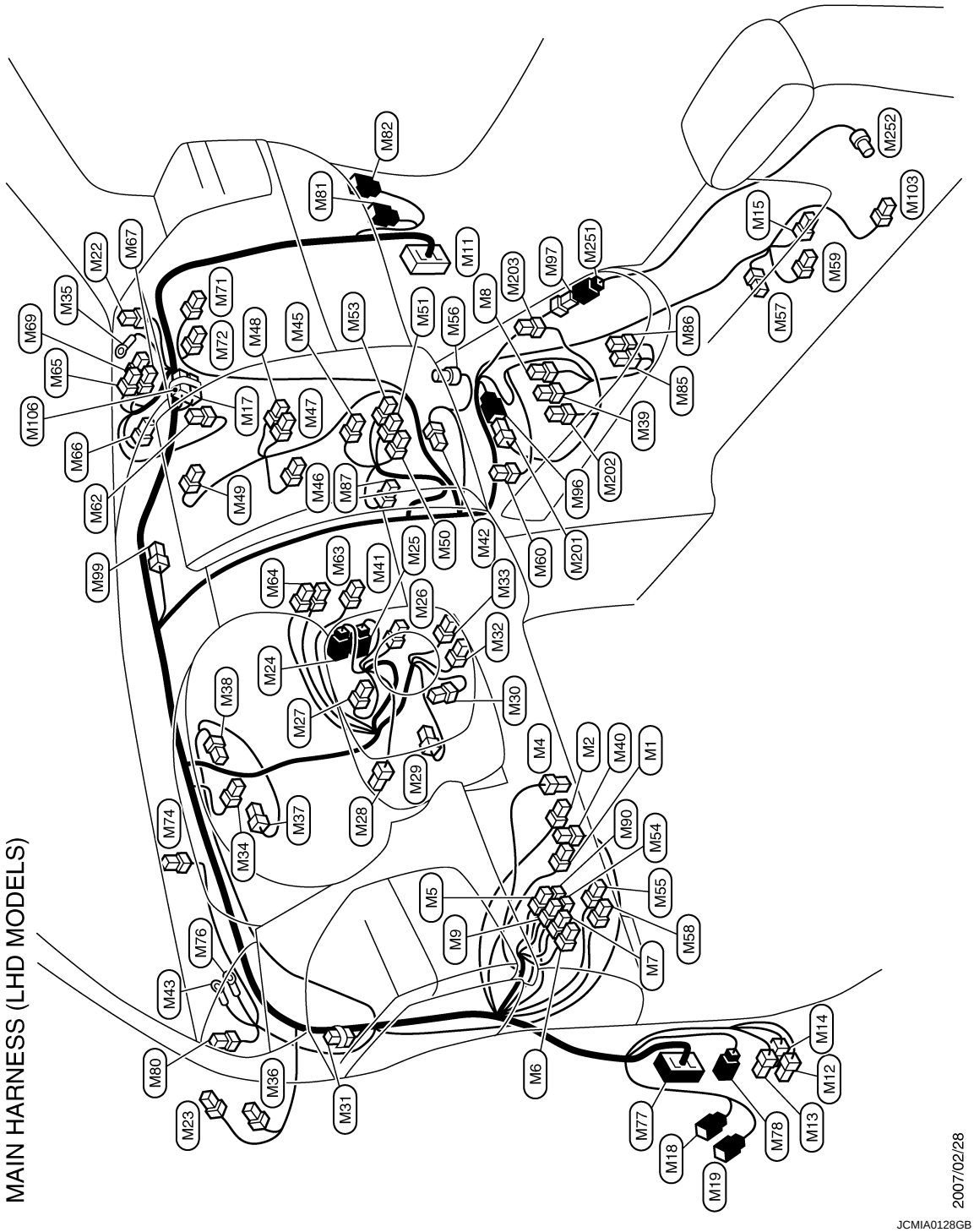
INFOID:0000000001298731

Outline (LHD MODELS)



LHD : Main Harness

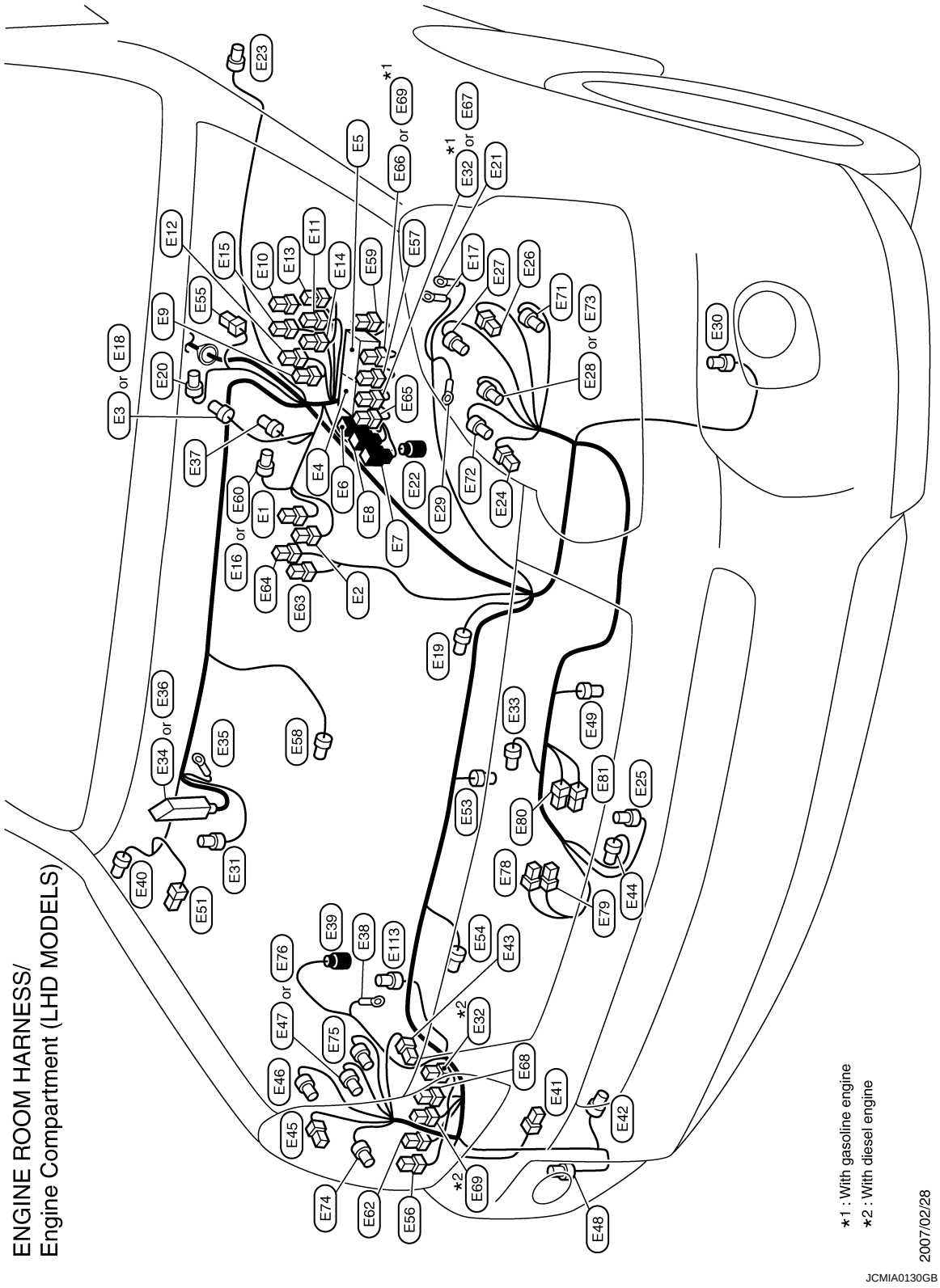
INFOID:0000000001298732

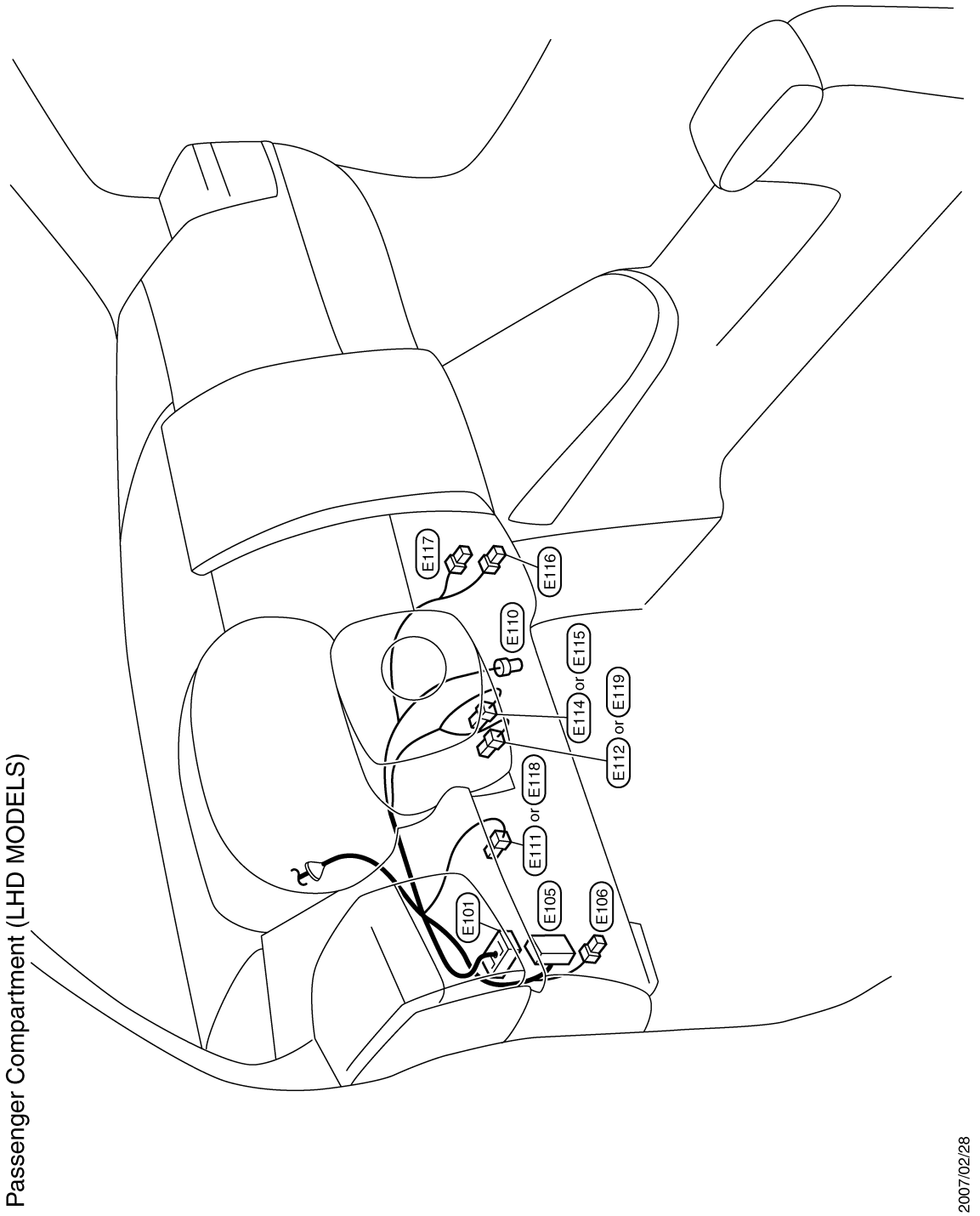


LHD : Engine Room Harness

INFOID:0000000001298733

ENGINE COMPARTMENT

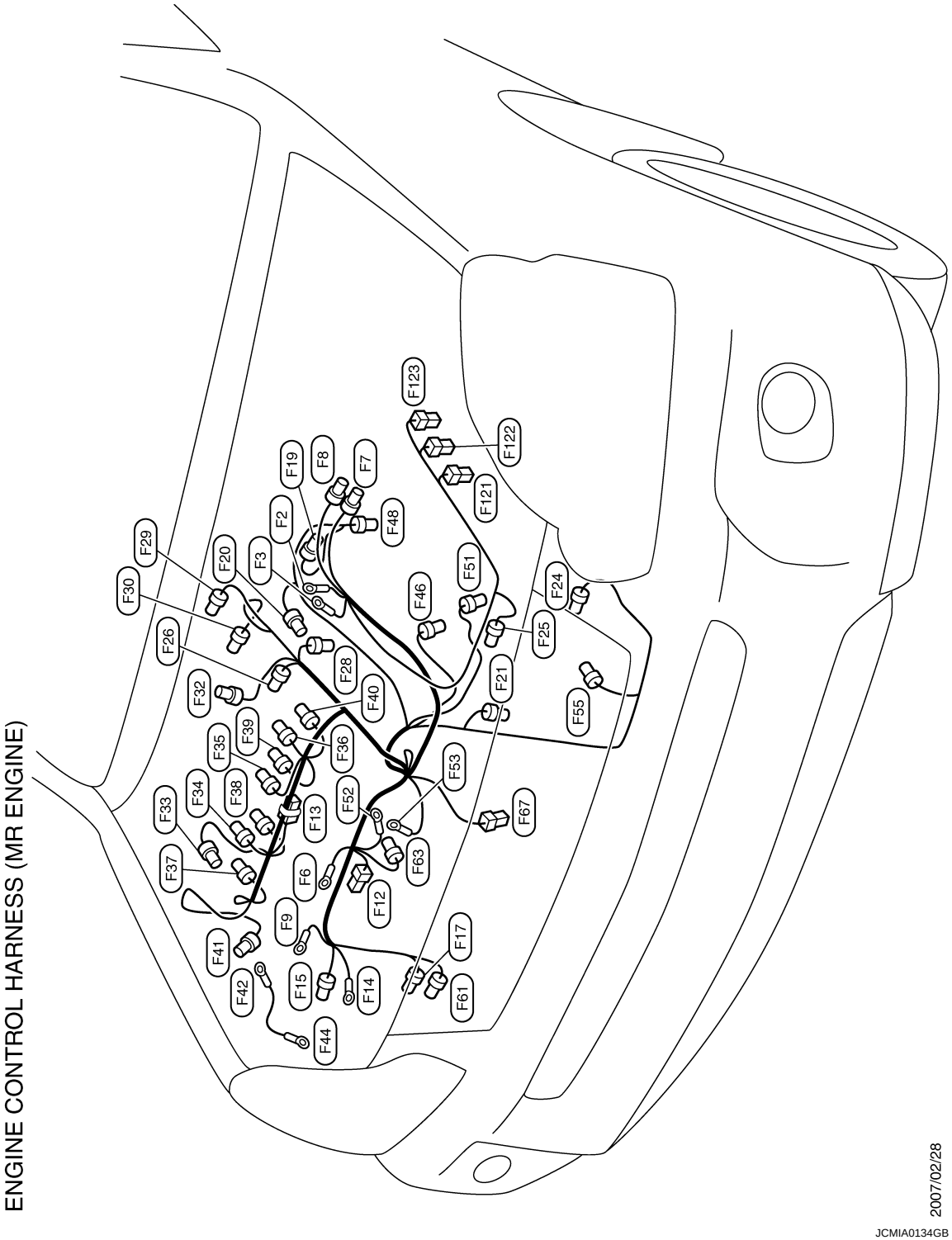



Passenger Compartment (LHD MODELS)
E117
E116
E110
E115
or
E114
E119
or
E112
E118
or
E111
E101
E105
E106
2007/02/28
JCMIA0131GB

LHD : Engine Control Harness

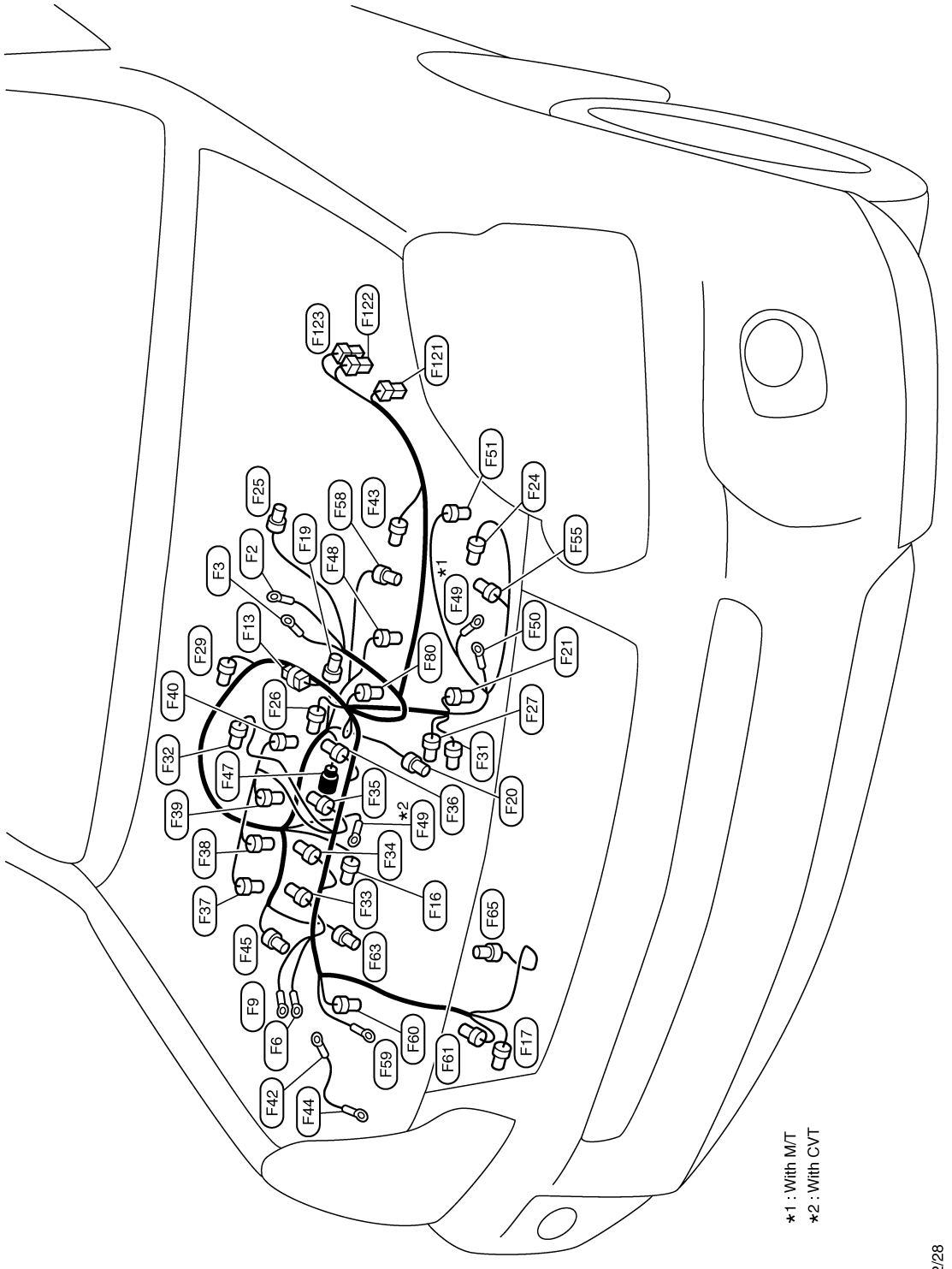
INFOID:0000000001298734

MR ENGINE

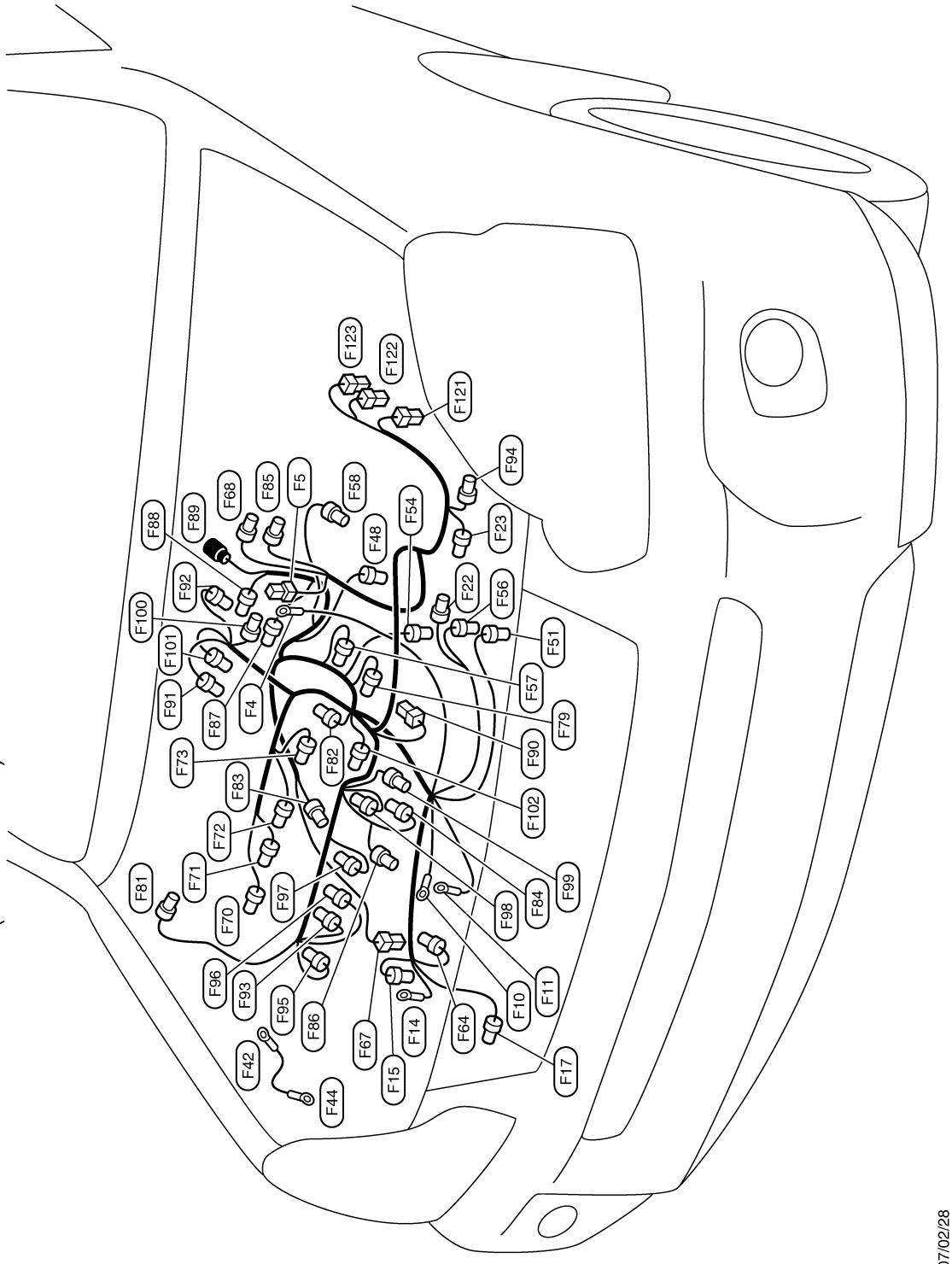


QR ENGINE

ENGINE CONTROL HARNESS (QR ENGINE)



ENGINE CONTROL HARNESS (M9R ENGINE)

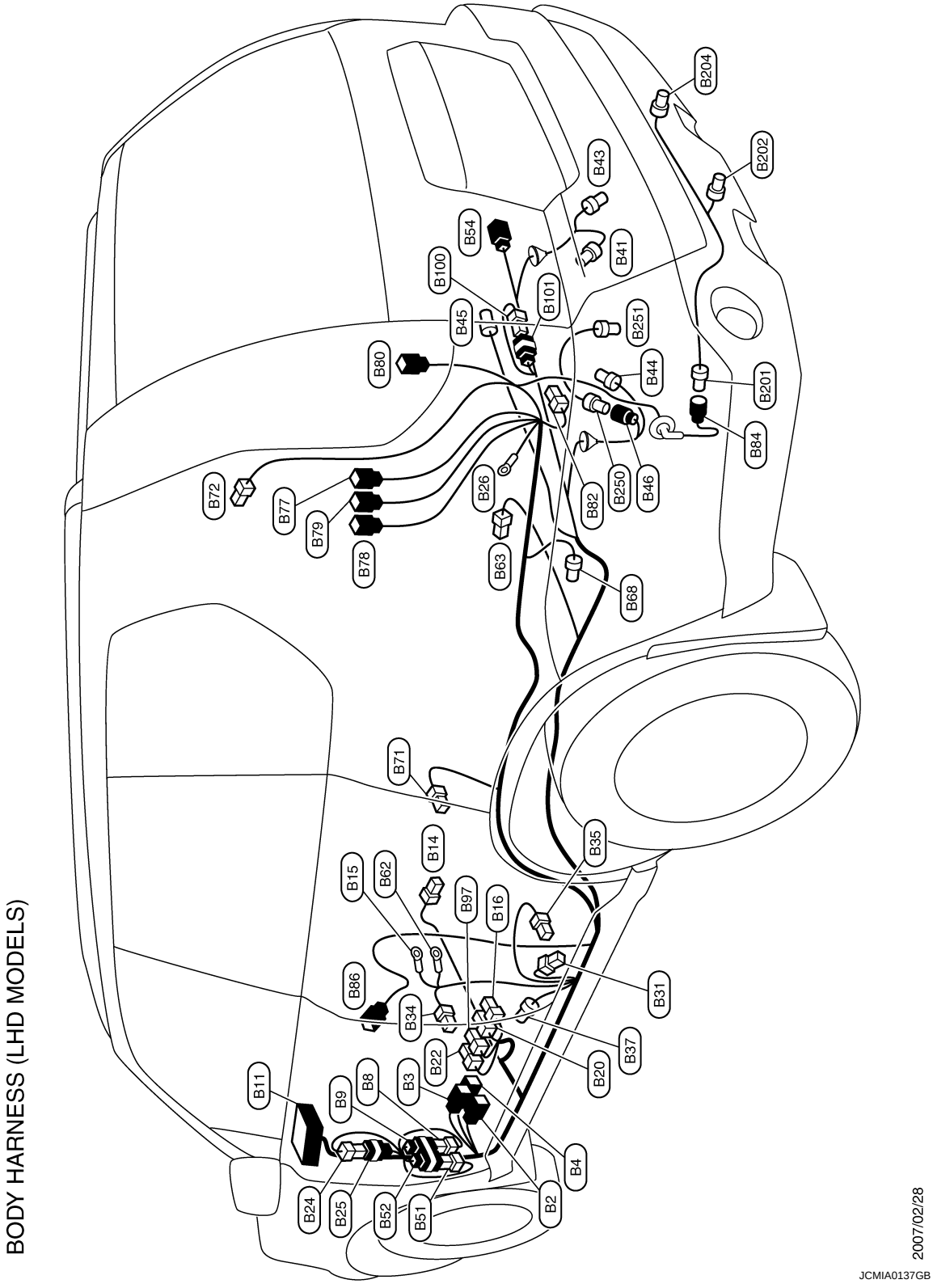


2007/02/28

JCMIA0136GB

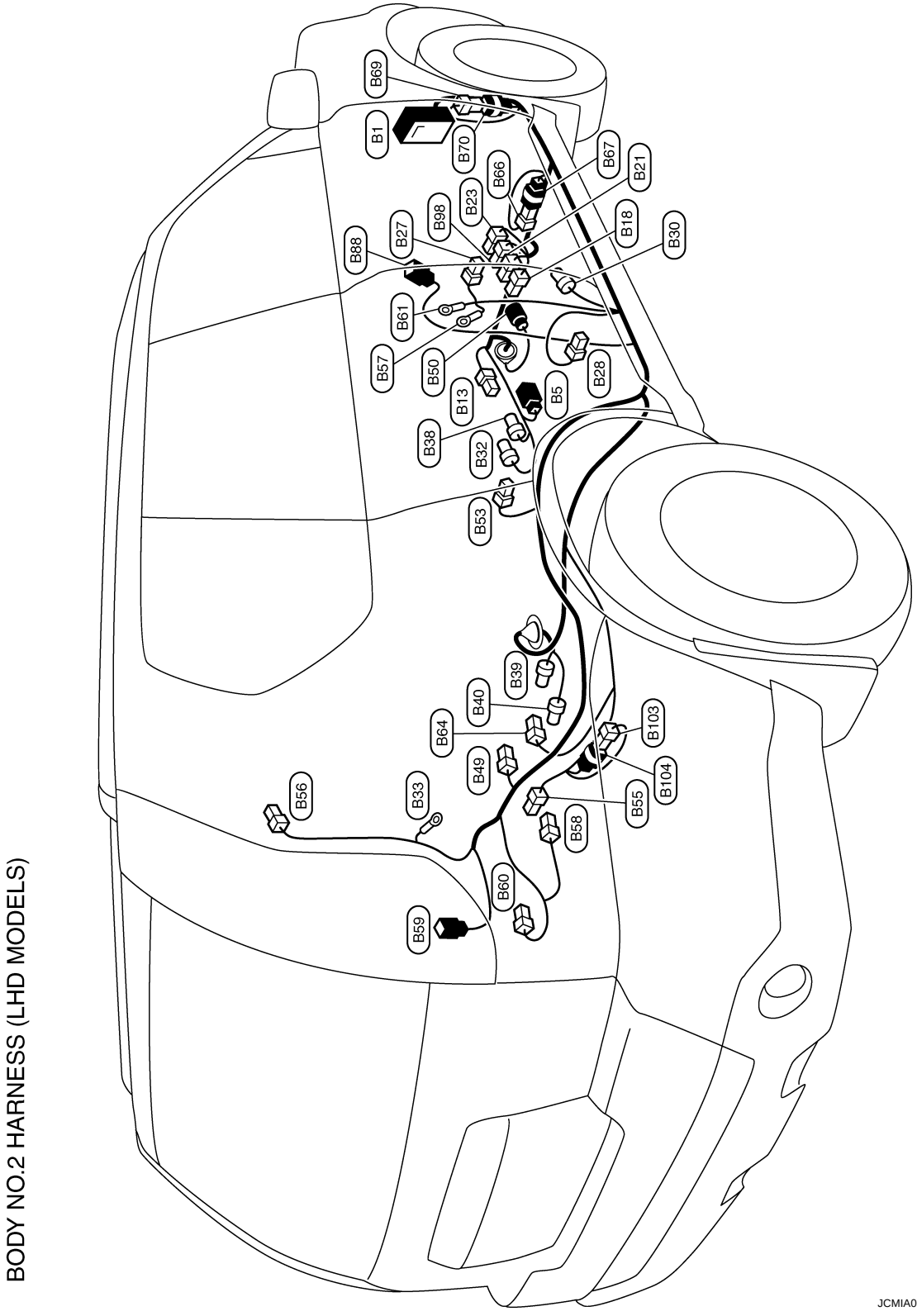
LHD : Body Harness

INFOID:0000000001298735



LHD : Body No. 2 Harness

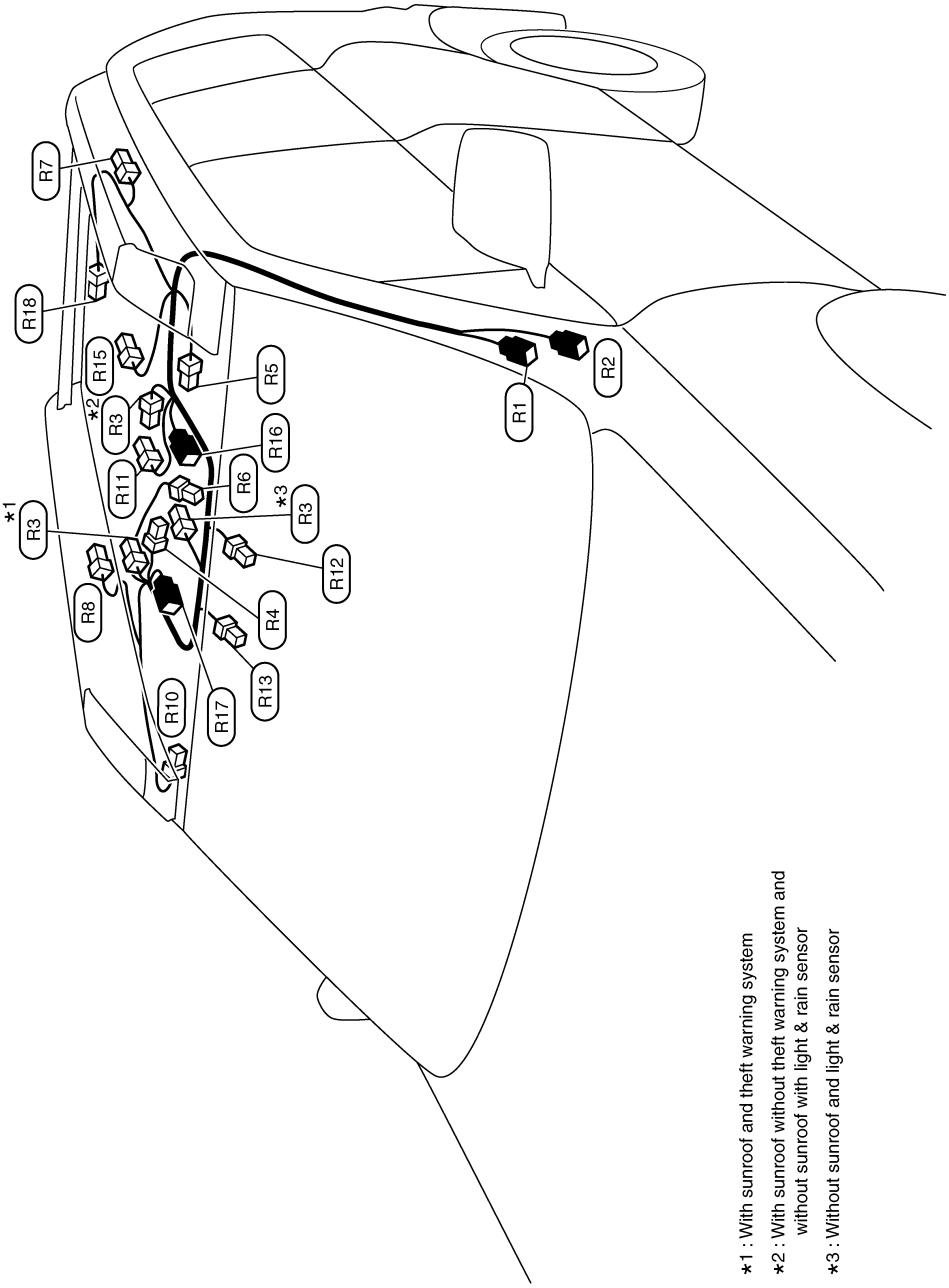
INFOID:0000000001298751



LHD : Room Lamp Harness

INFOID:0000000001298736

ROOM LAMP HARNESS (LHD MODELS)



*1 : With sunroof and theft warning system
*2 : With sunroof without theft warning system and without sunroof with light & rain sensor
*3 : Without sunroof and light & rain sensor

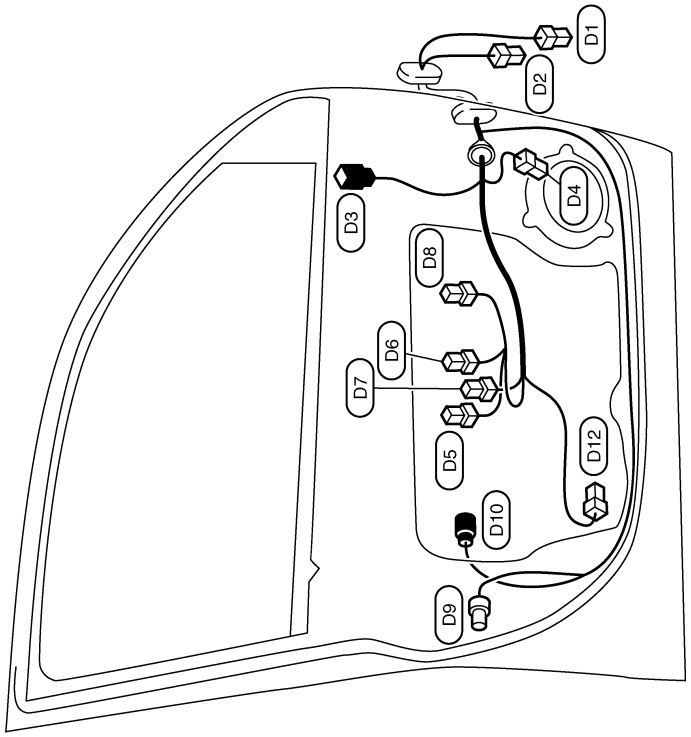
2007/02/28

JCMIA0141GB

LHD : Front Door Harness

INFOID:0000000001298737

LH SIDE



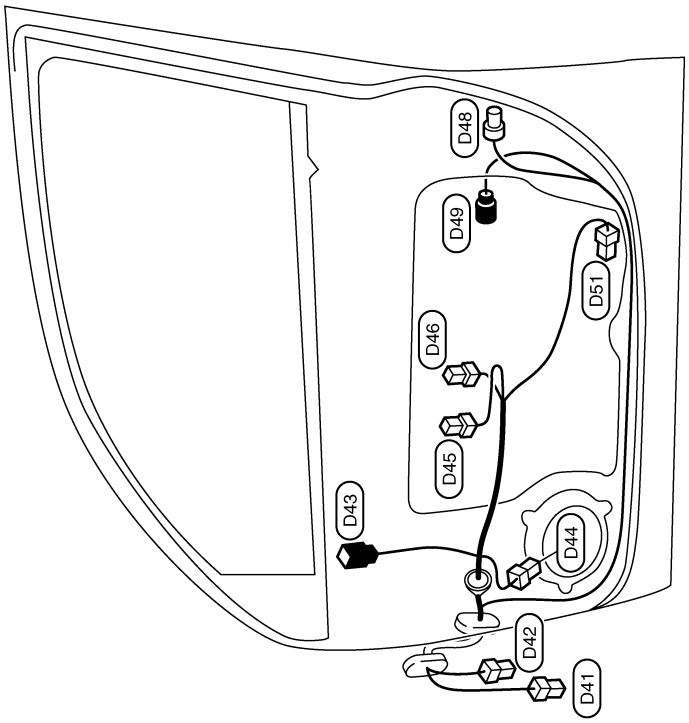
FRONT DOOR HARNESS LH (LHD MODELS)

2007/02/28

JCMIA0143GB

RH SIDE

FRONT DOOR HARNESS RH (LHD MODELS)



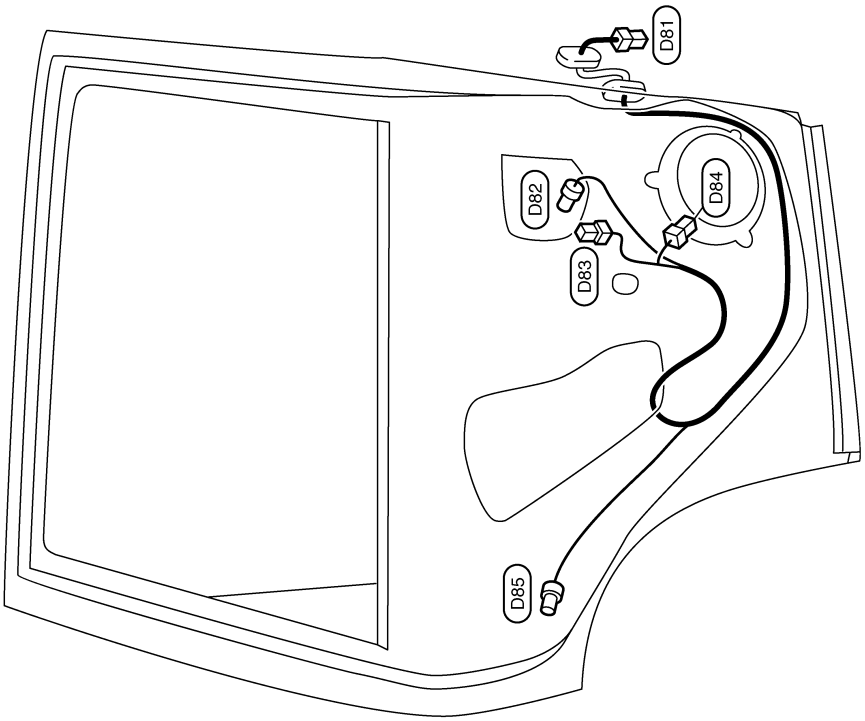
2007/02/28

JCMIA0144GB

LHD : Rear Door Harness

INFOID:0000000001298738

LH SIDE



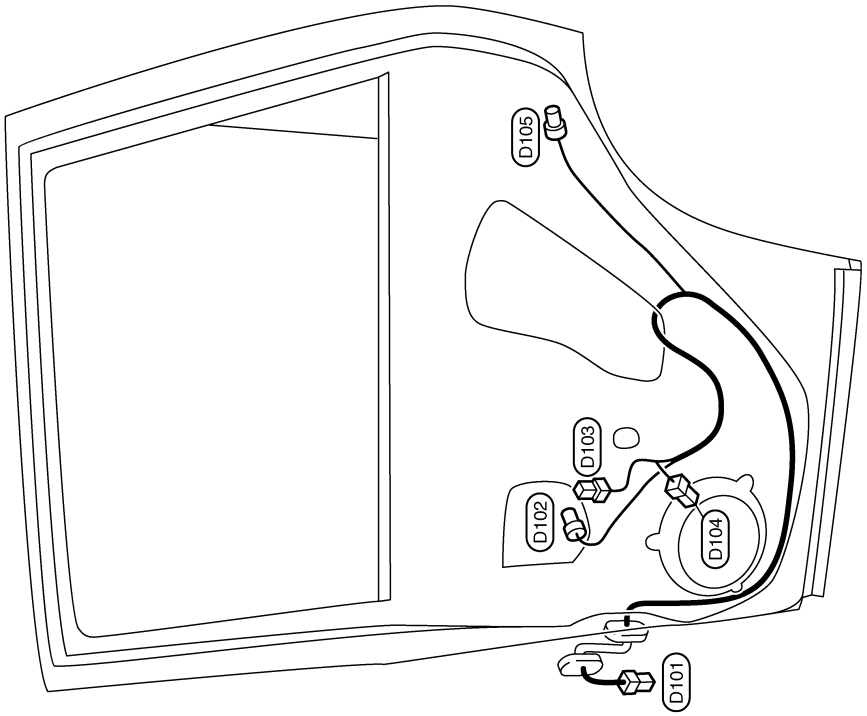
REAR DOOR HARNESS LH (LHD MODELS)

2007/02/28

JCMIA0147GB

RH SIDE

REAR DOOR HARNESS RH (LHD MODELS)

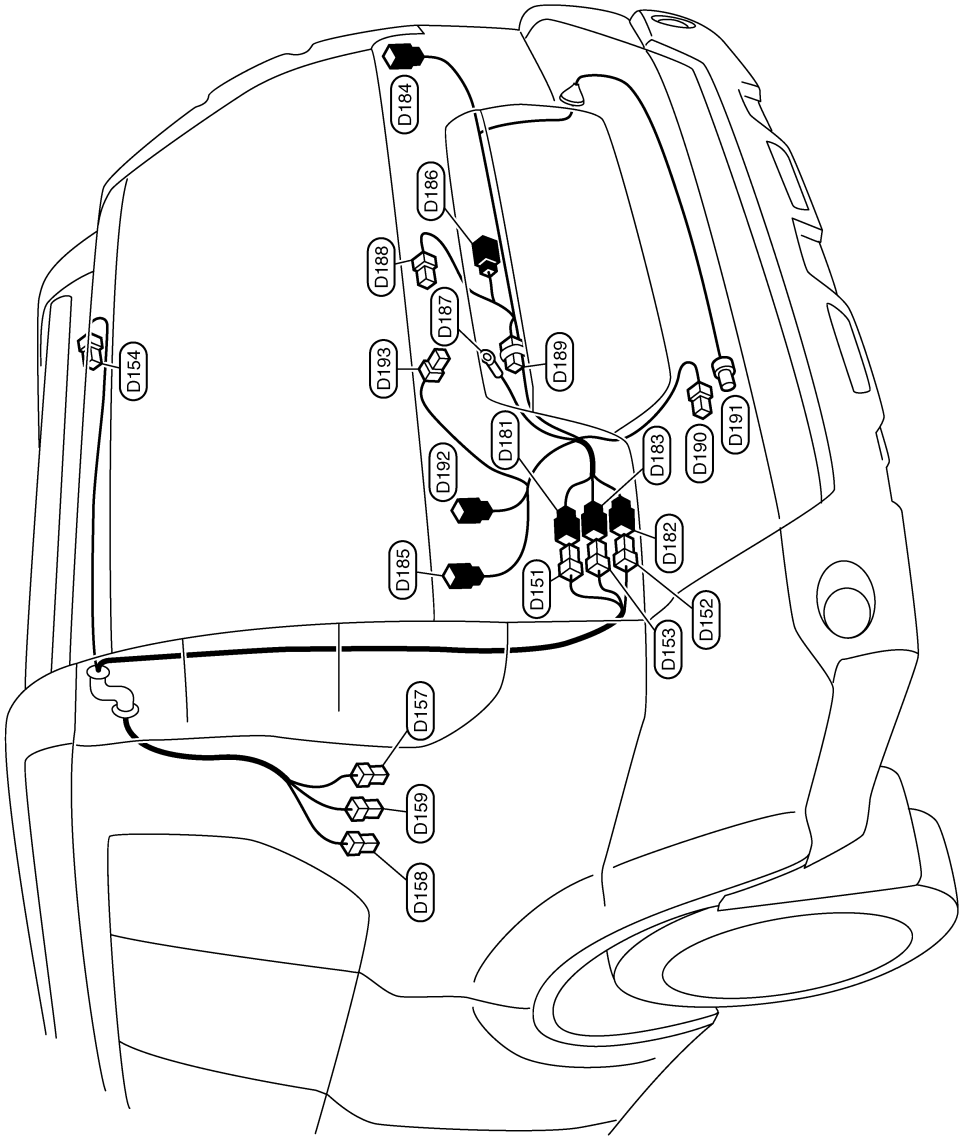


2007/02/28

JCMIA0148GB

LHD : Back Door Harness

INFOID:0000000001298739



BACK DOOR HARNESS (LHD MODELS)

2007/02/28

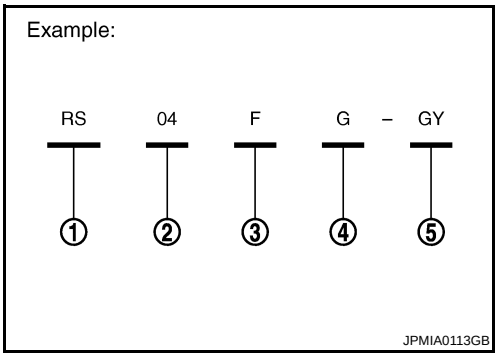
JCMIA0151GB

RHD

RHD : How To Read Harness Layout

INFOID:0000000001298740

1 : Connector model
2 : Cavity
3 : Male (M) and female (F) terminals
4 : Connector color
5 : Special type



CONNECTOR SYMBOL

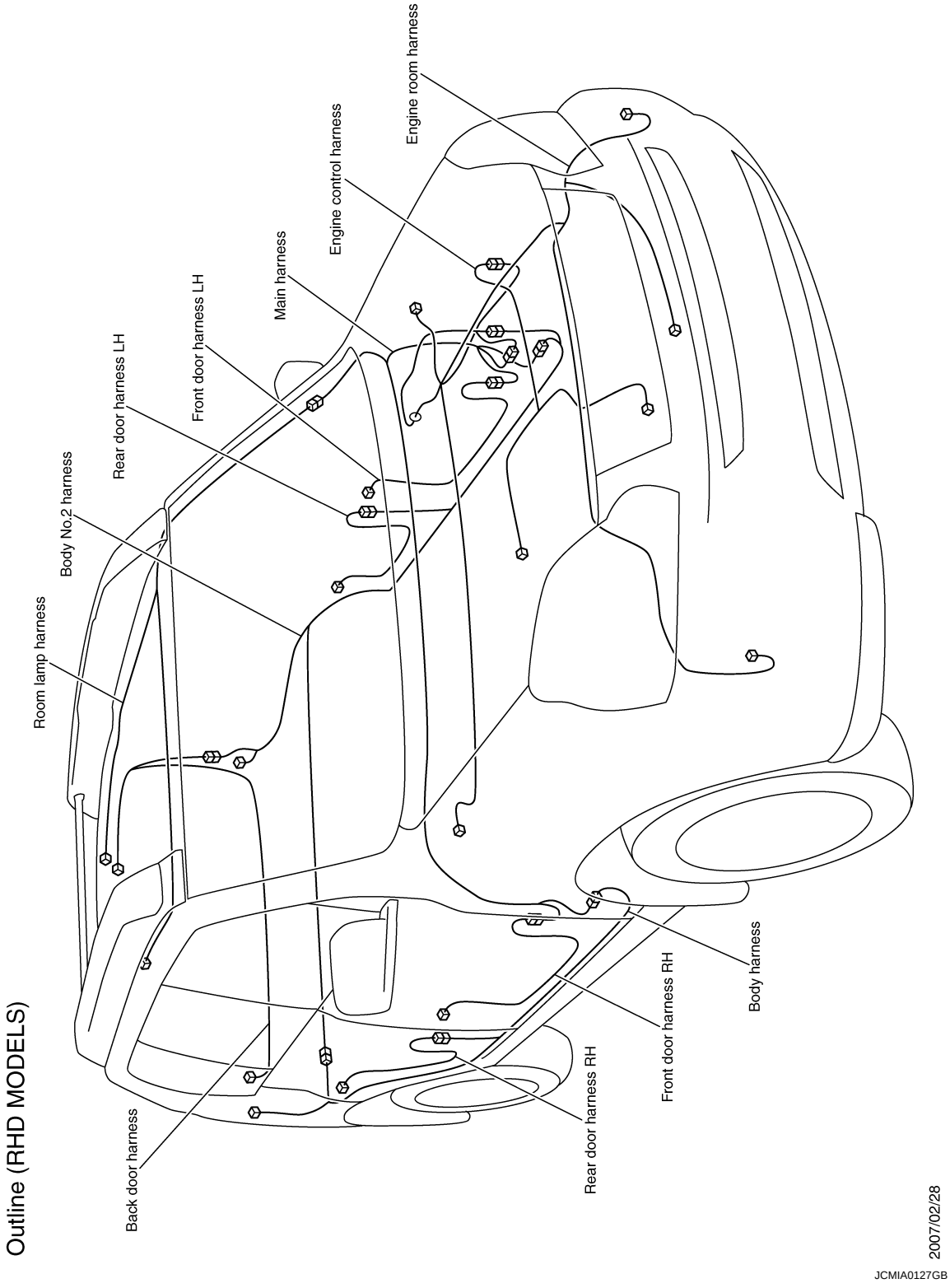
Main symbols of connector (in Harness Layout) are indicated in the below.

Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
Connector symbol				
Ground terminal etc.	—			

JPMIA0114GB

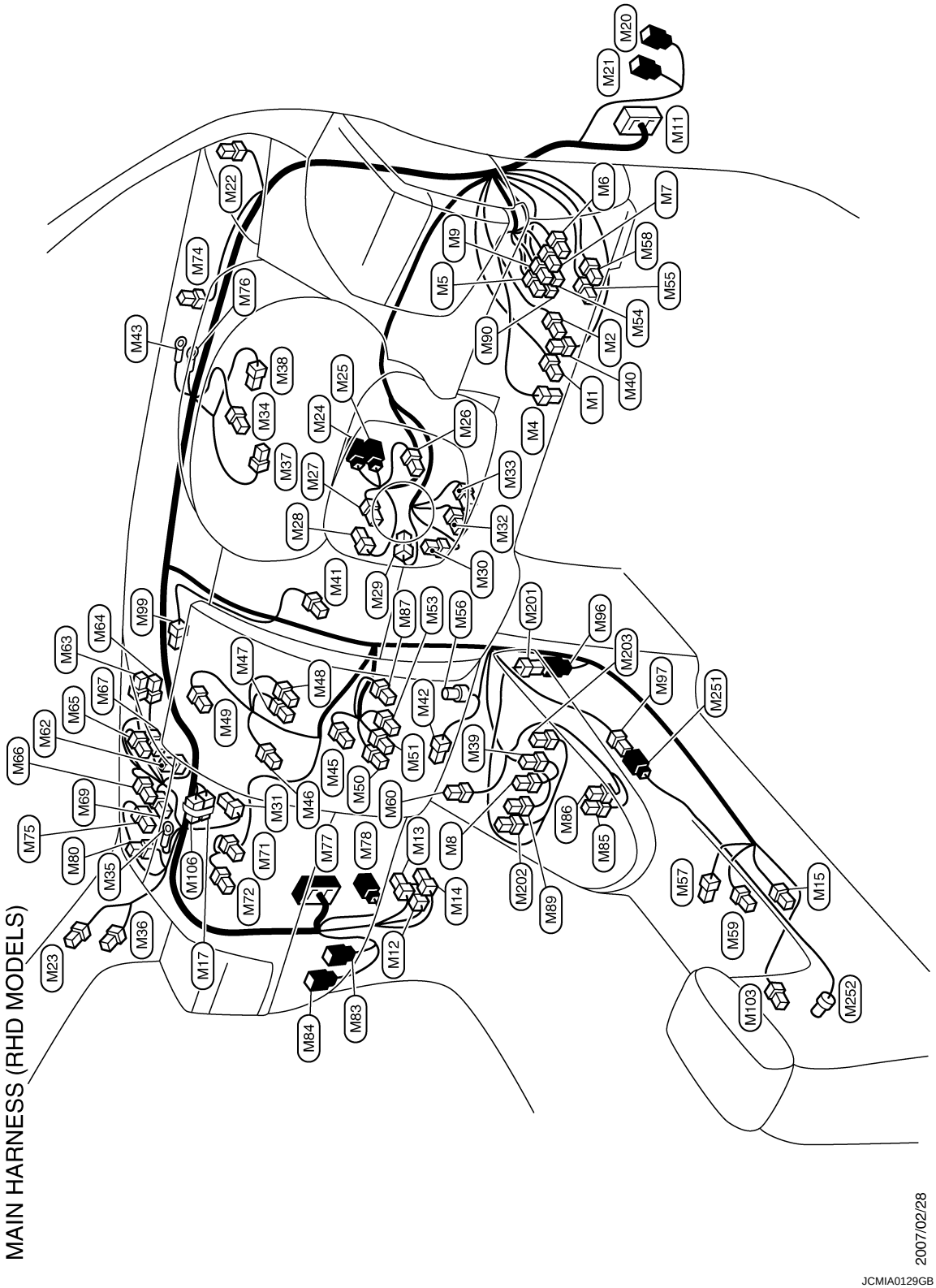
RHD : Outline

INFOID:0000000001298741



RHD : Main Harness

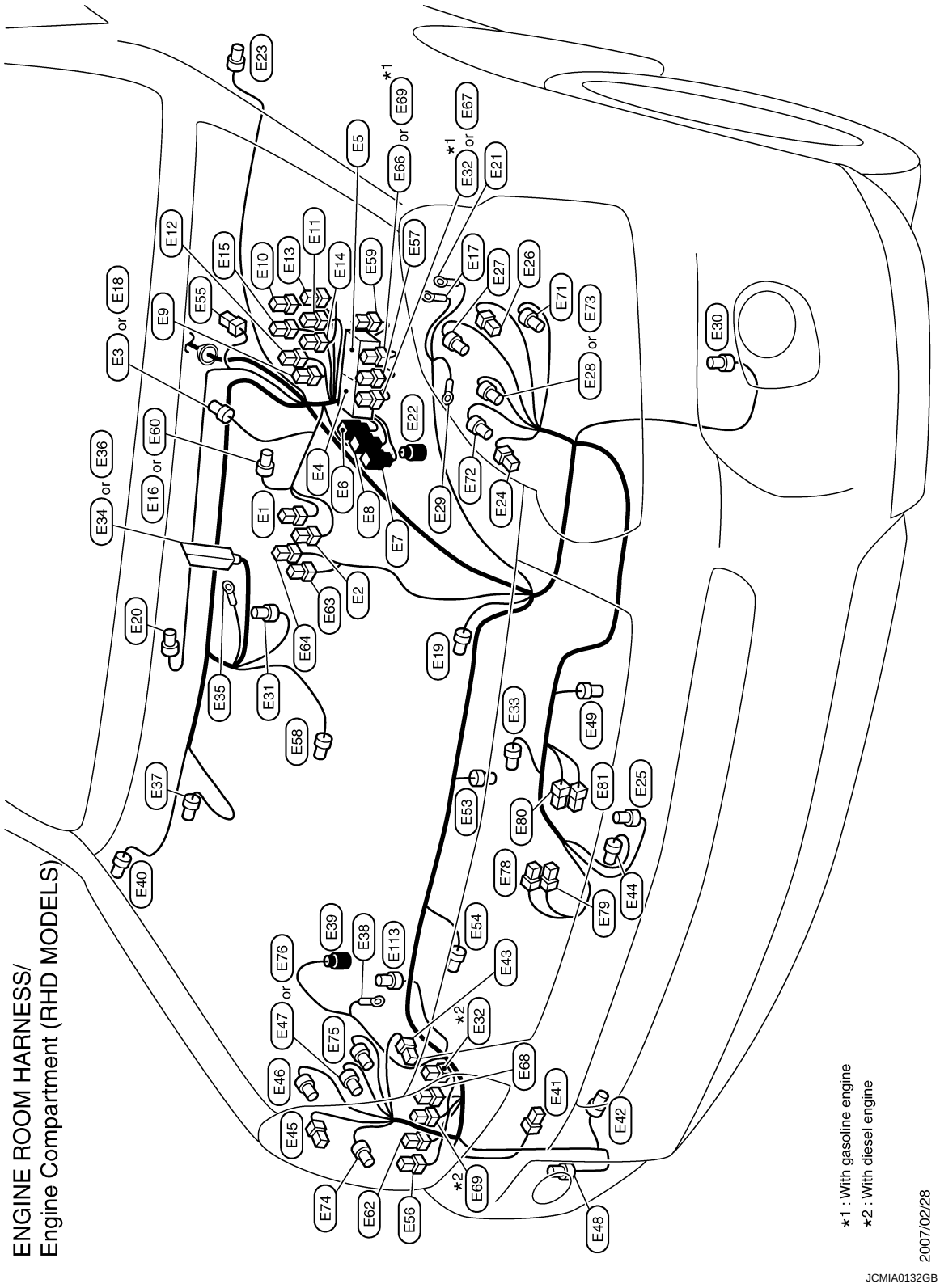
INFOID:0000000001298742

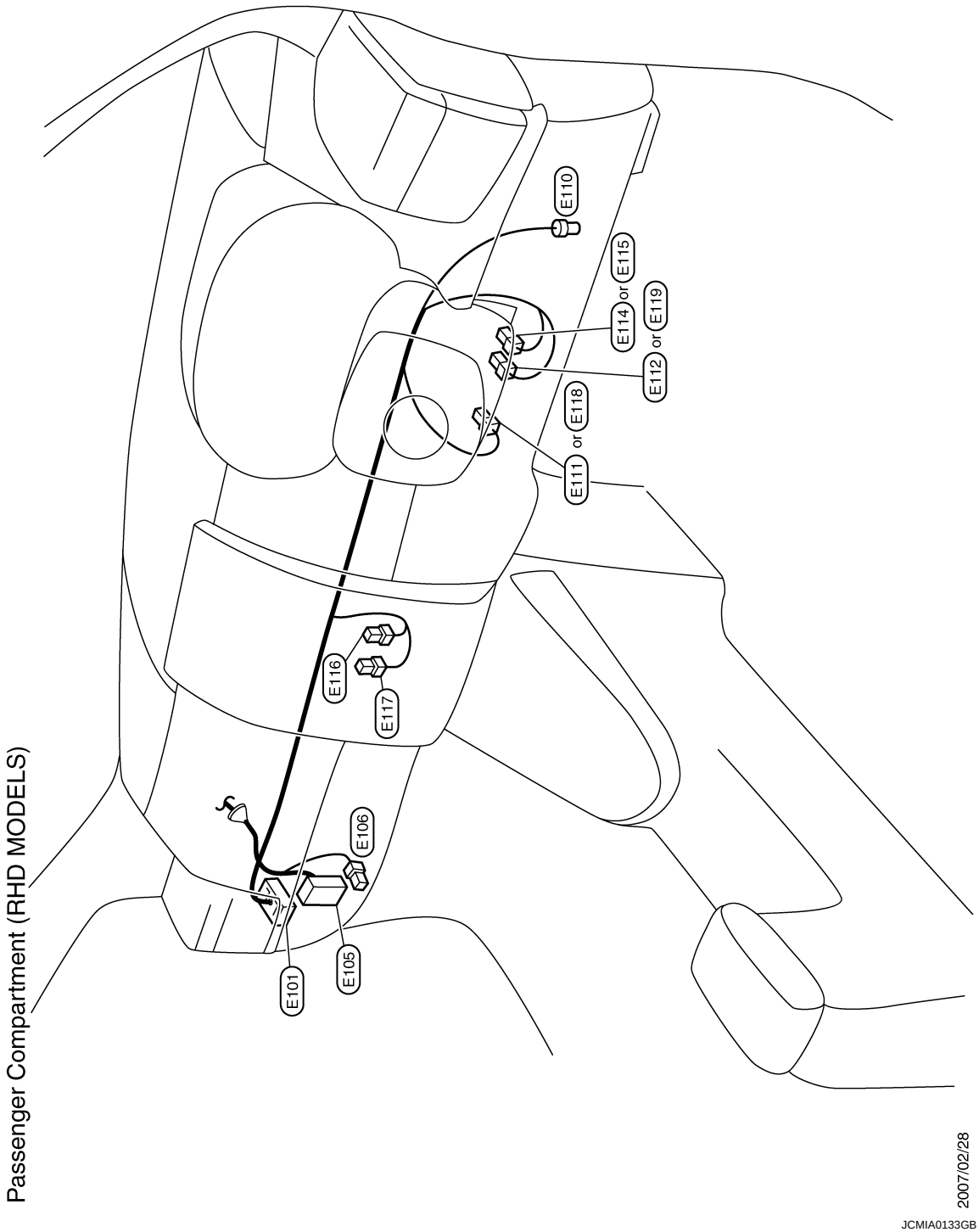


RHD : Engine Room Harness

INFOID:0000000001298743

ENGINE COMPARTMENT

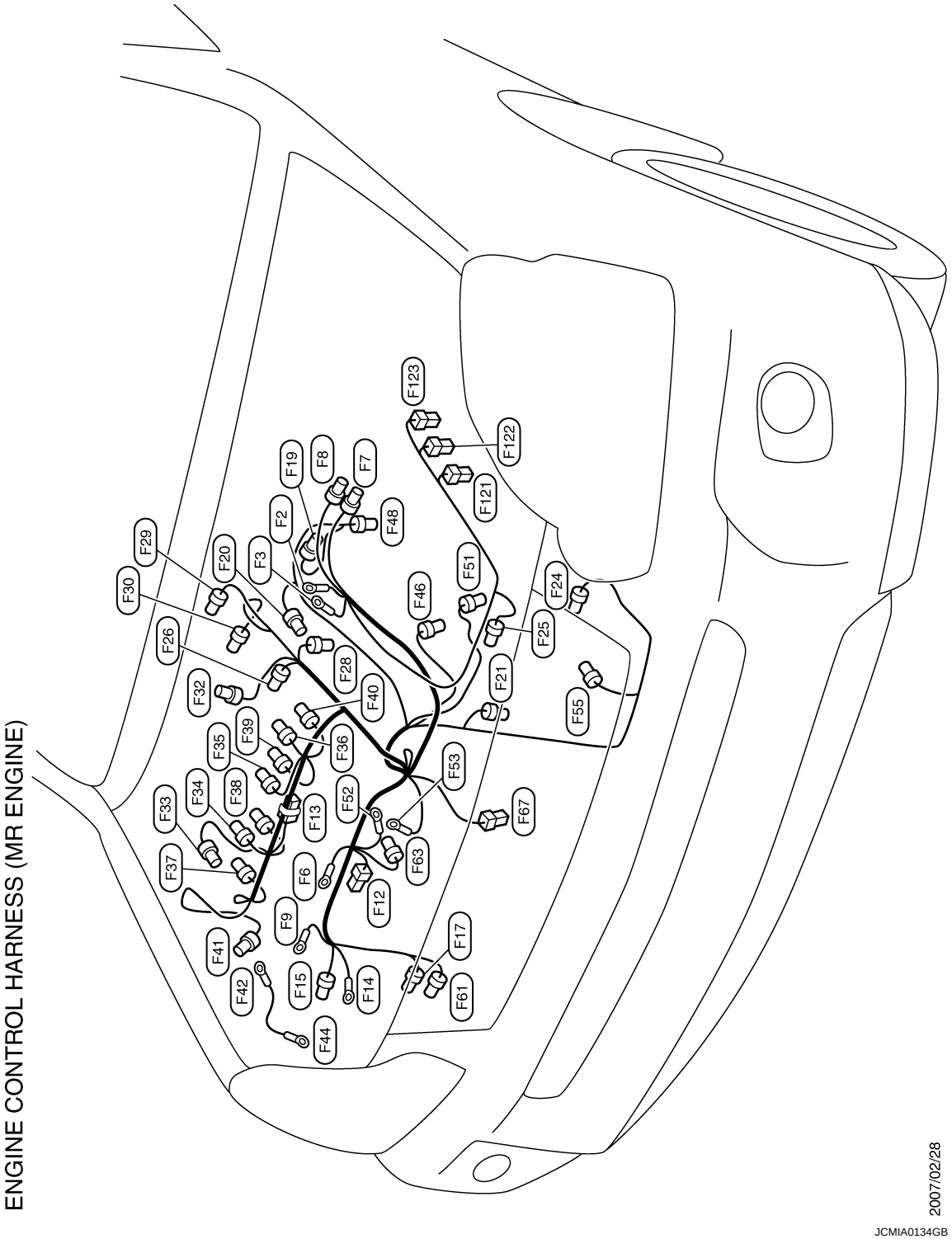


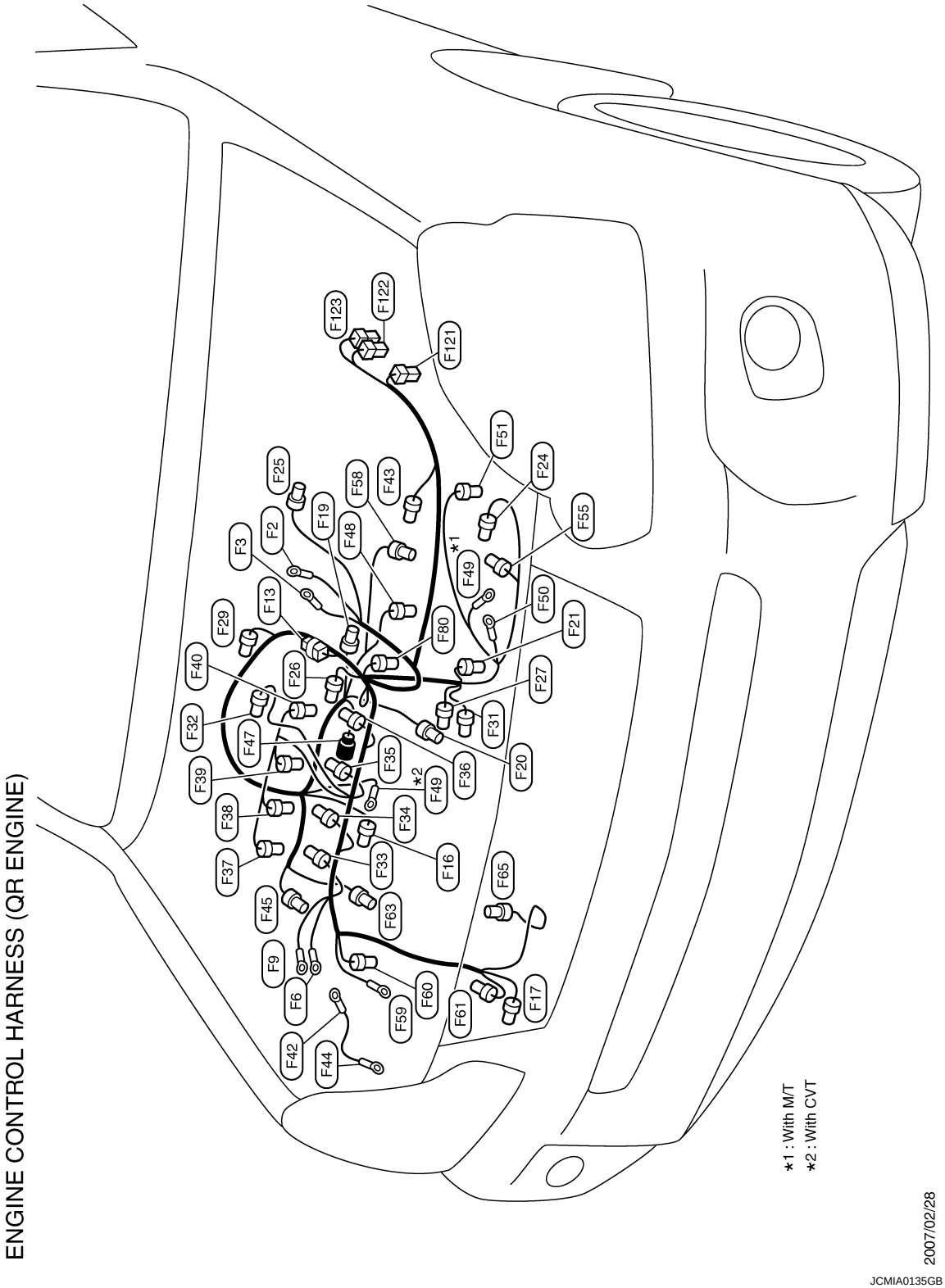

Passenger Compartment (RHD MODELS)
E110
E115
or
E114
E119
or
E112
E118
or
E111
E116
E117
E106
E105
E101
2007/02/28
JCMIA0133GB

RHD : Engine Control Harness

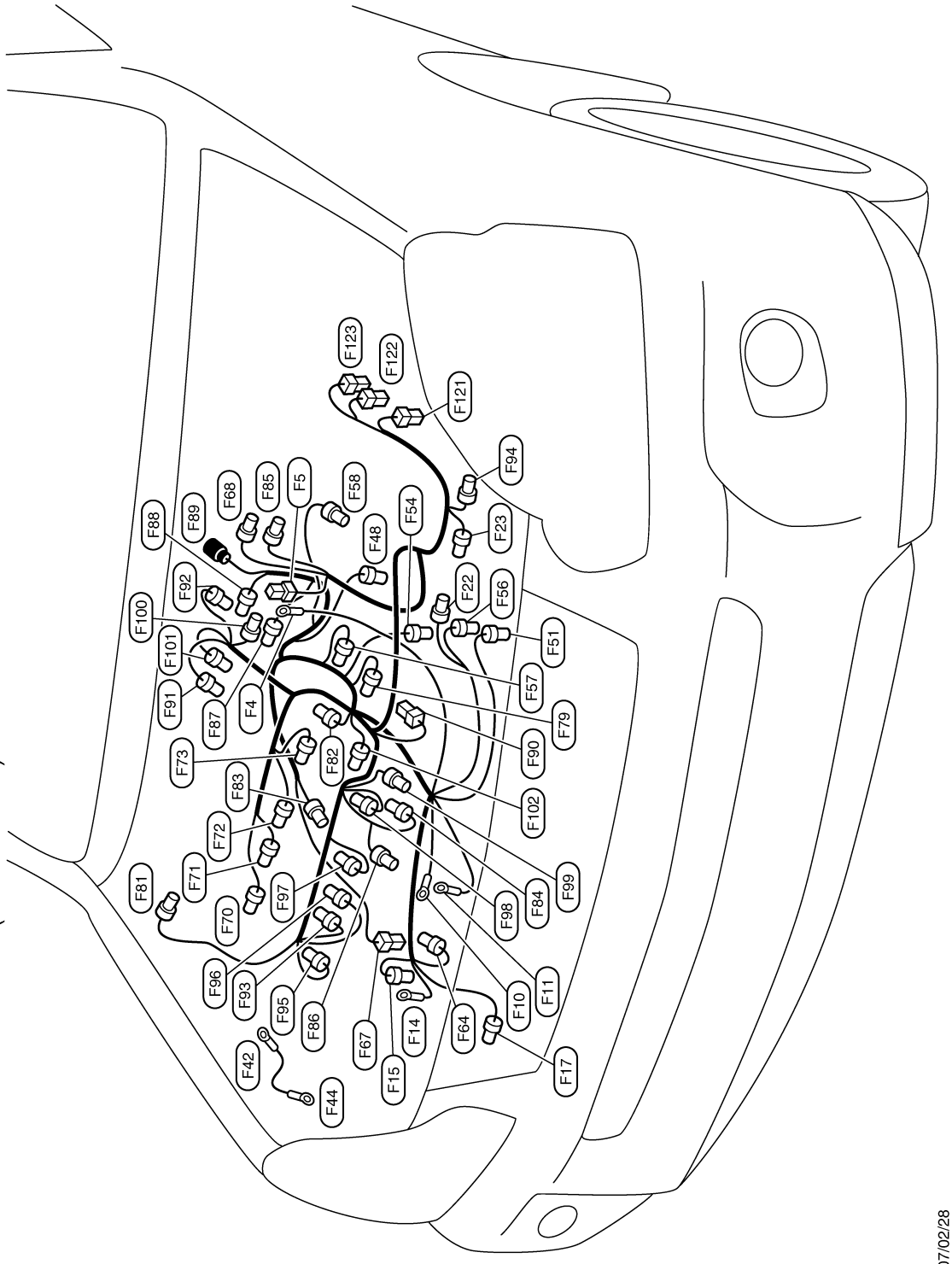
INFOID:0000000001298744

MR ENGINE




ENGINE CONTROL HARNESS (QR ENGINE)
F123
F122
F121
F51
F24
F55
F25
F58
F43
F19
F48
F2
F3
*1
F49
F50
F21
F13
F29
F80
F40
F26
F27
F32
F47
F31
F35
F36
F20
F39
*2
F49
F38
F34
F37
F33
F16
F65
F45
F63
F9
F6
F60
F61
F17
F59
F42
F44
*1 : With M/T
*2 : With CVT
2007/02/28
JCMIA0135GB

ENGINE CONTROL HARNESS (M9R ENGINE)

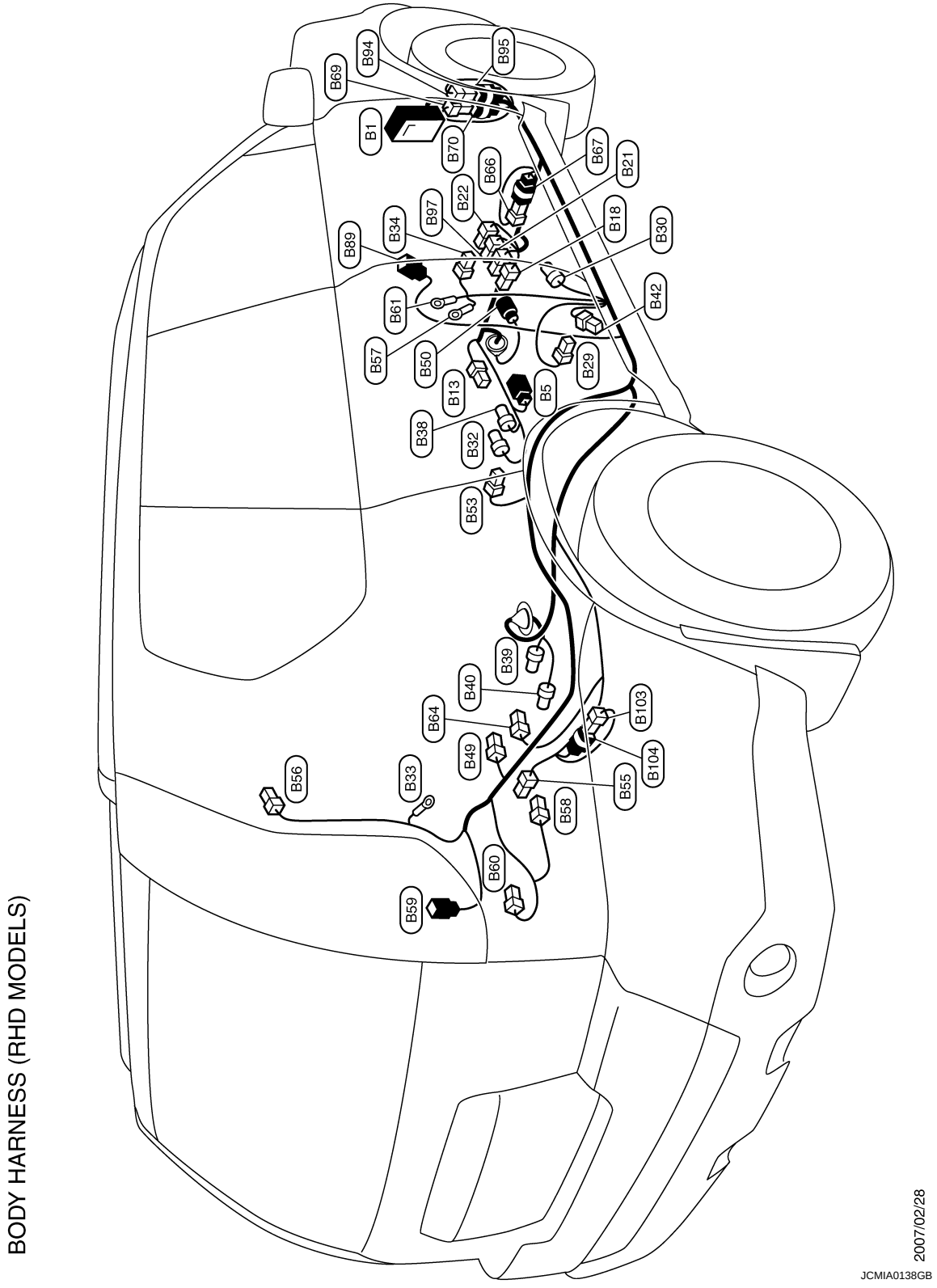


2007/02/28

JCMIA0136GB

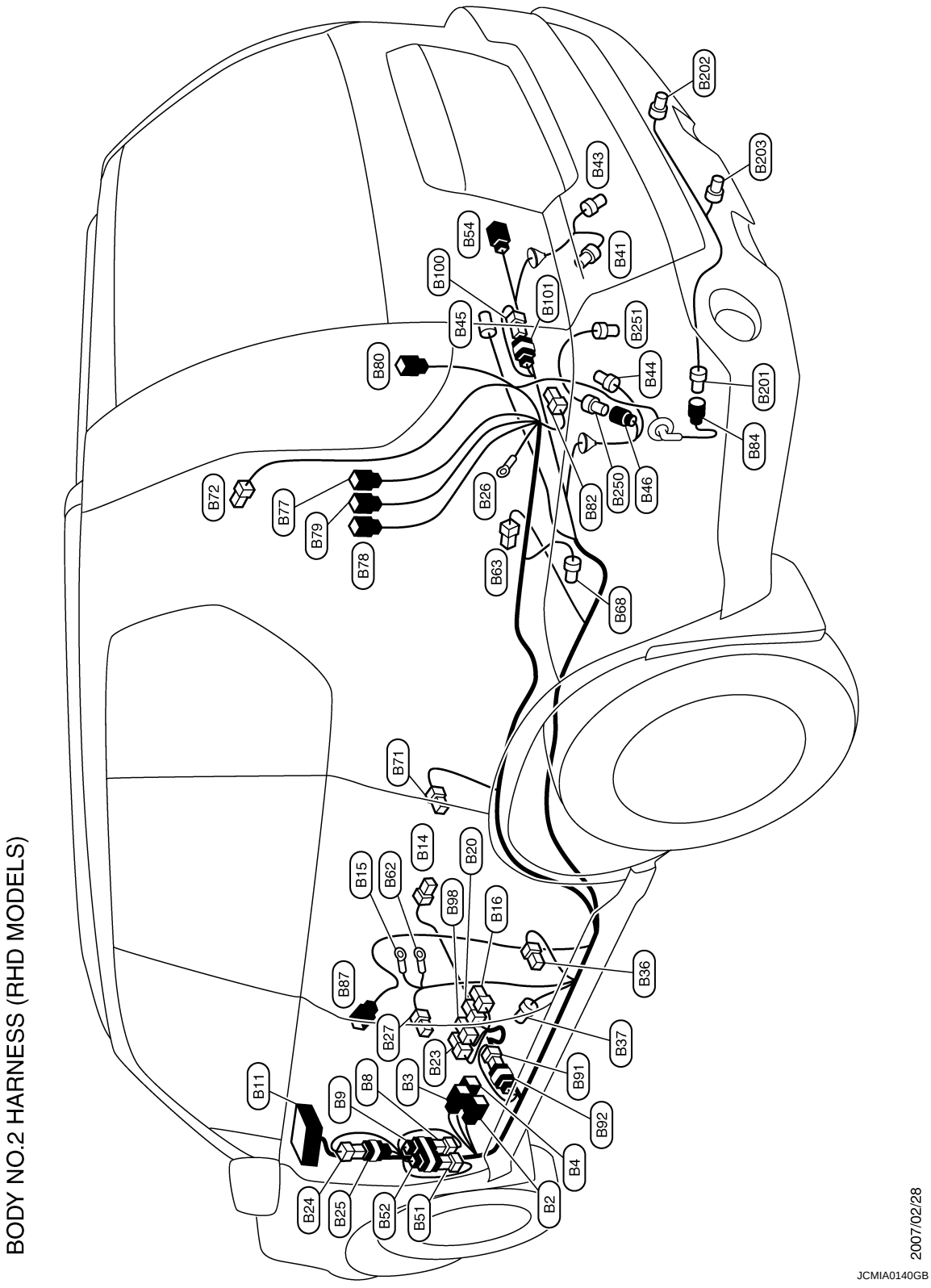
RHD : Body Harness

INFOID:0000000001298745



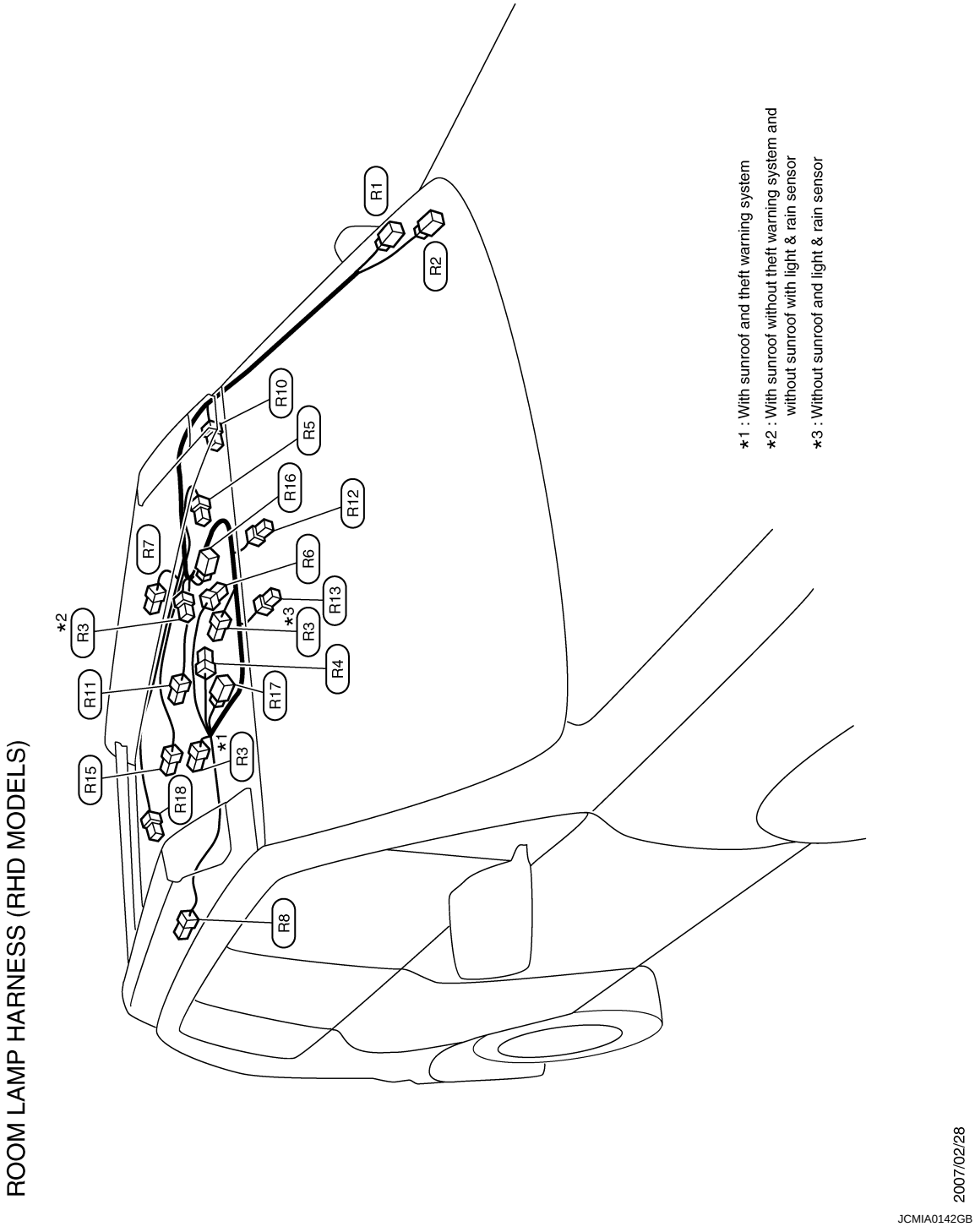
RHD : Body No. 2 Harness

INFOID:0000000001298752



RHD : Room Lamp Harness

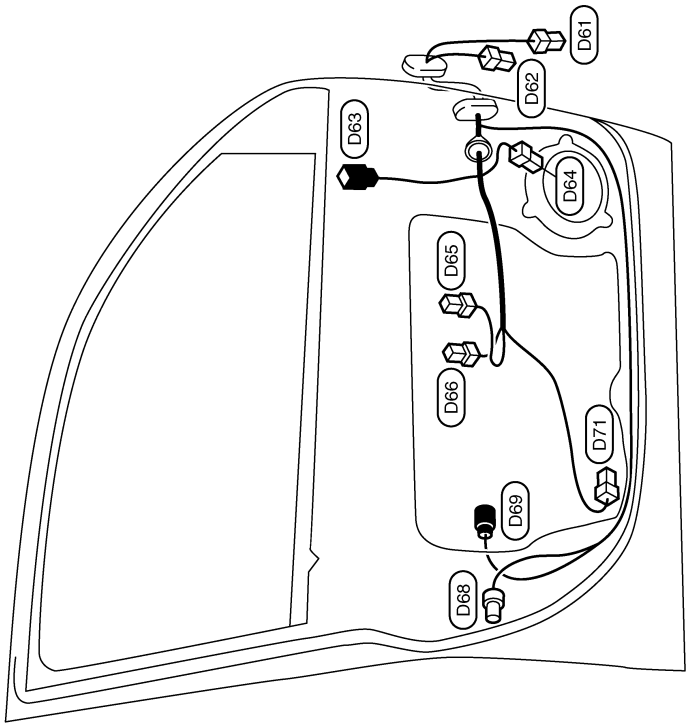
INFOID:0000000001298746



RHD : Front Door Harness

INFOID:0000000001298747

LH SIDE



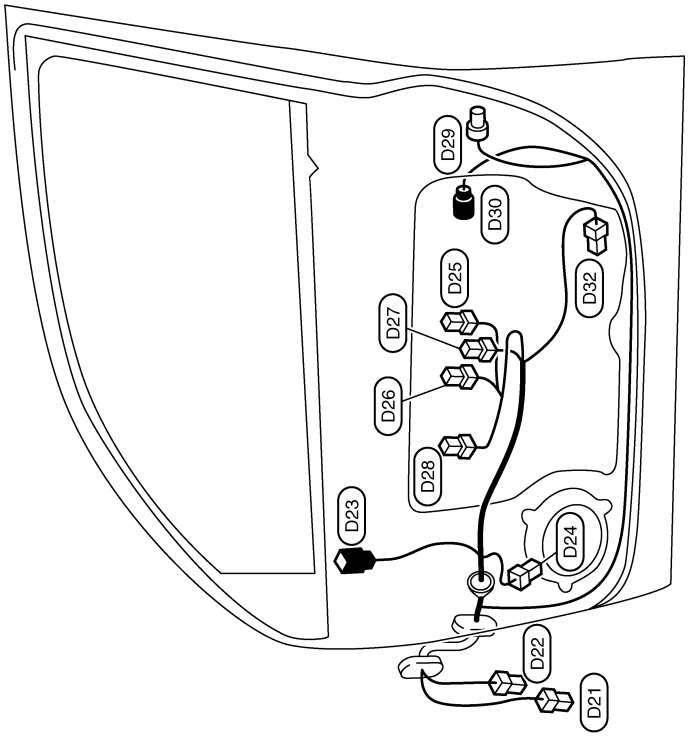
FRONT DOOR HARNESS LH (RHD MODELS)

2007/02/28

JCMIA0145GB

RH SIDE

FRONT DOOR HARNESS RH (RHD MODELS)



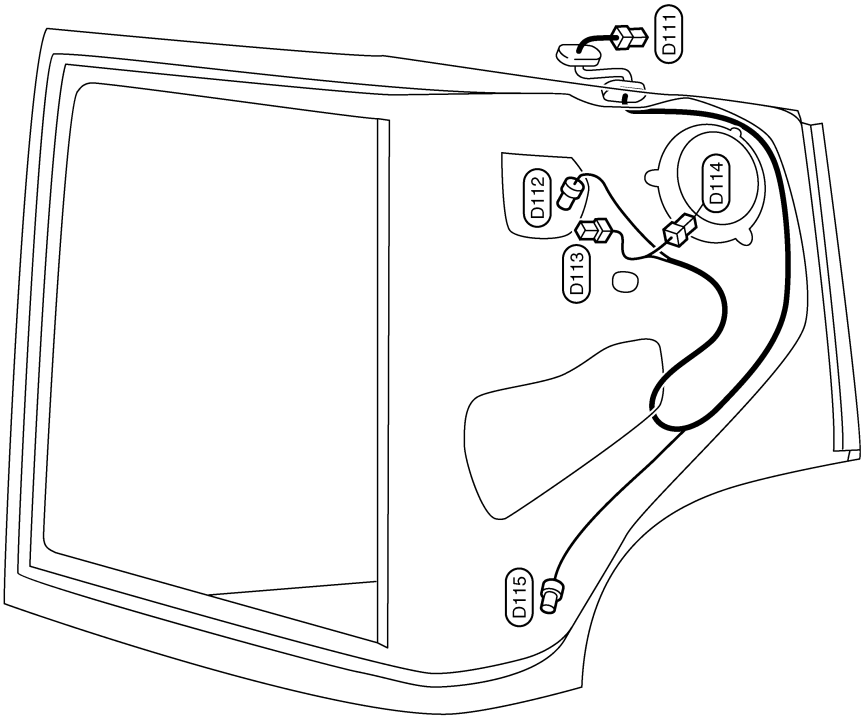
2007/02/28

JCMIA0146GB

RHD : Rear Door Harness

INFOID:0000000001298748

LH SIDE



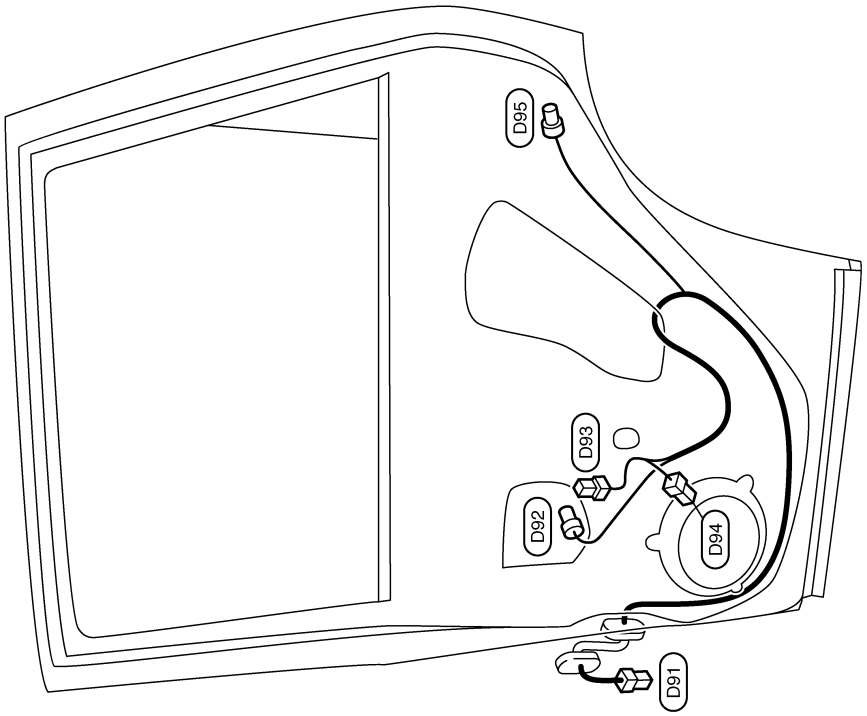
REAR DOOR HARNESS LH (RHD MODELS)

2007/02/28

JCMIA0149GB

RH SIDE

REAR DOOR HARNESS RH (RHD MODELS)



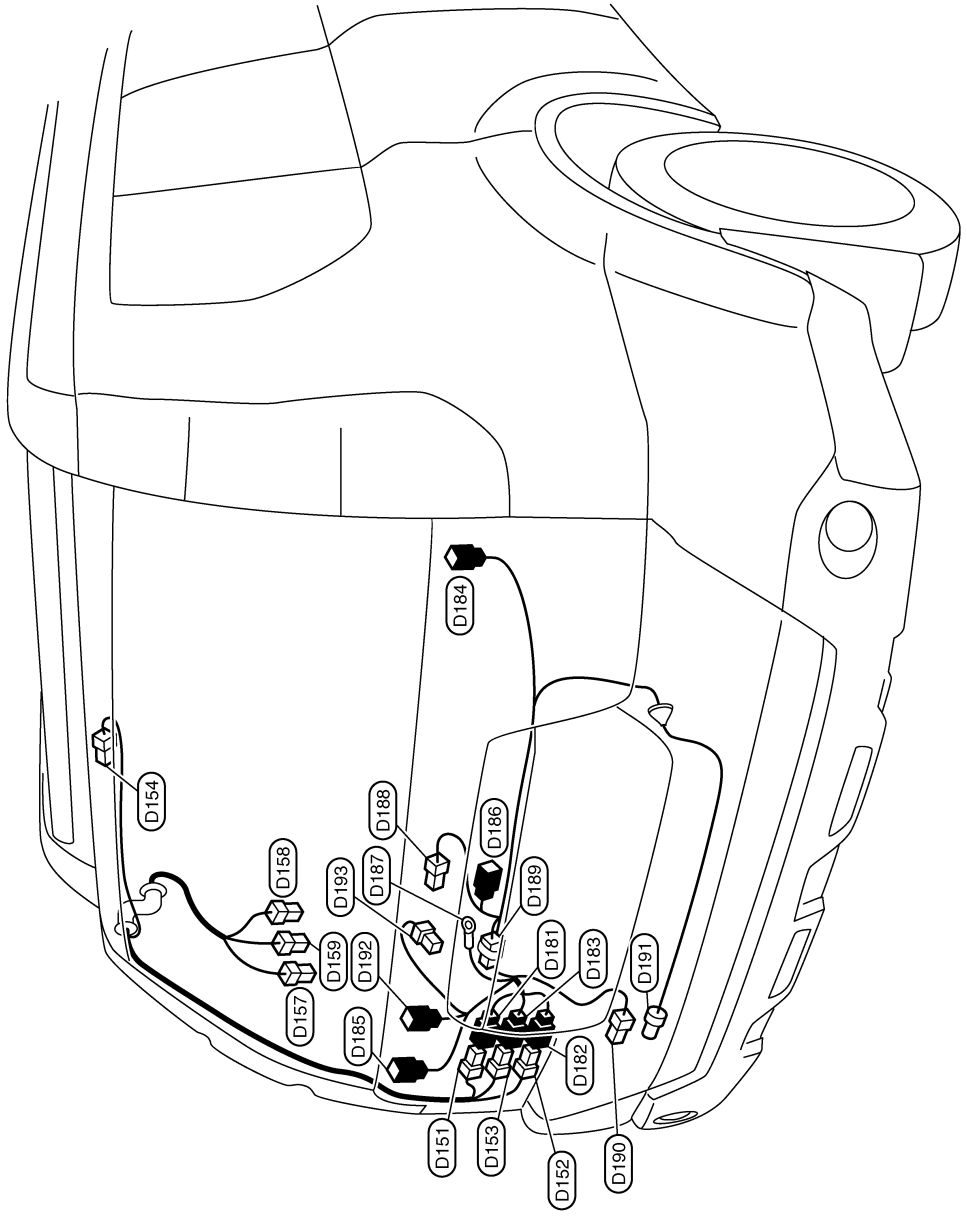
2007/02/28

JCMIA0150GB

RHD : Back Door Harness

INFOID:0000000001298749

BACK DOOR HARNESS (RHD MODELS)



2007/02/28

JCMIA0152GB

HARNESS CONNECTOR

Description

INFOID:0000000001298669

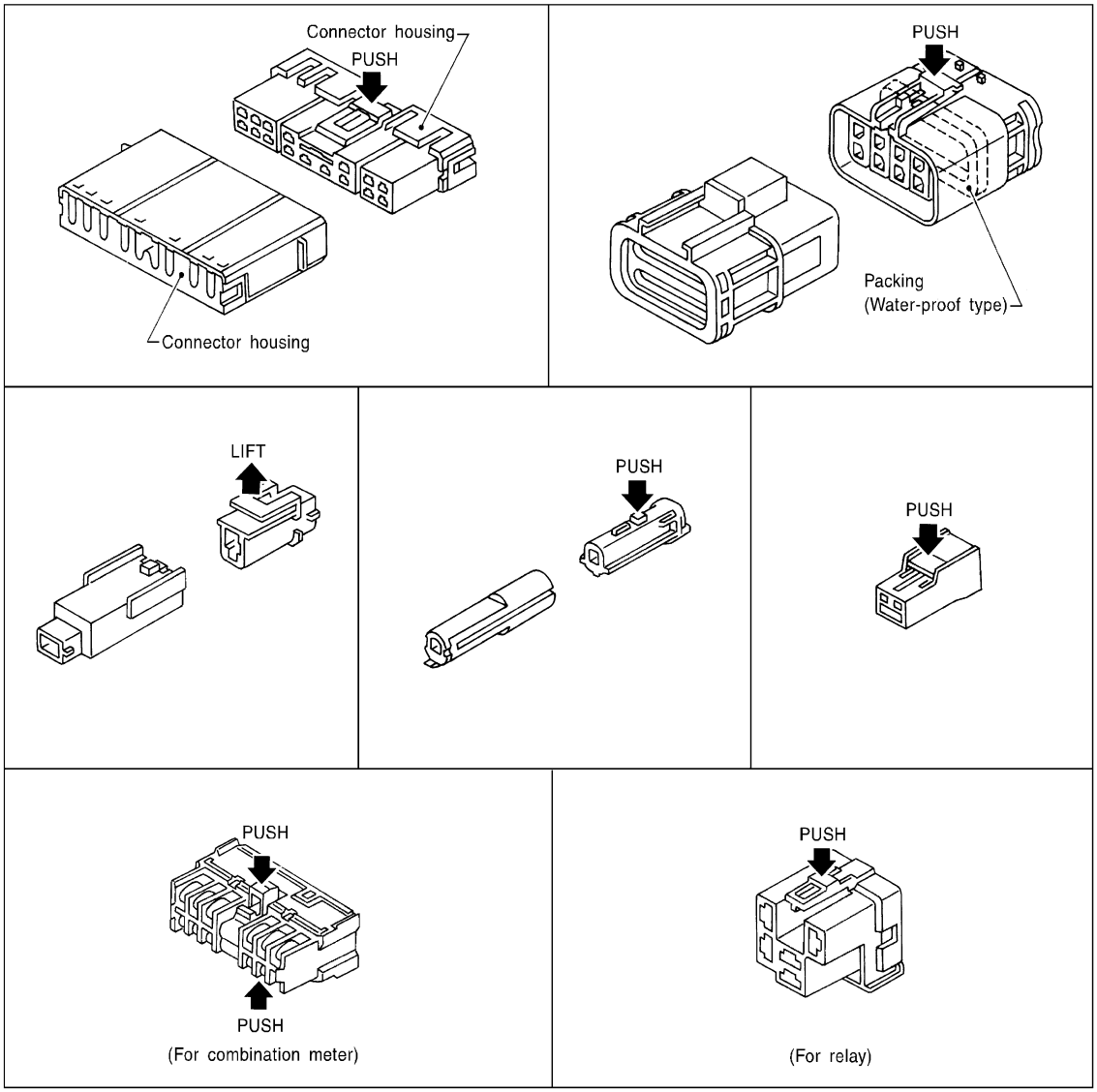
HARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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

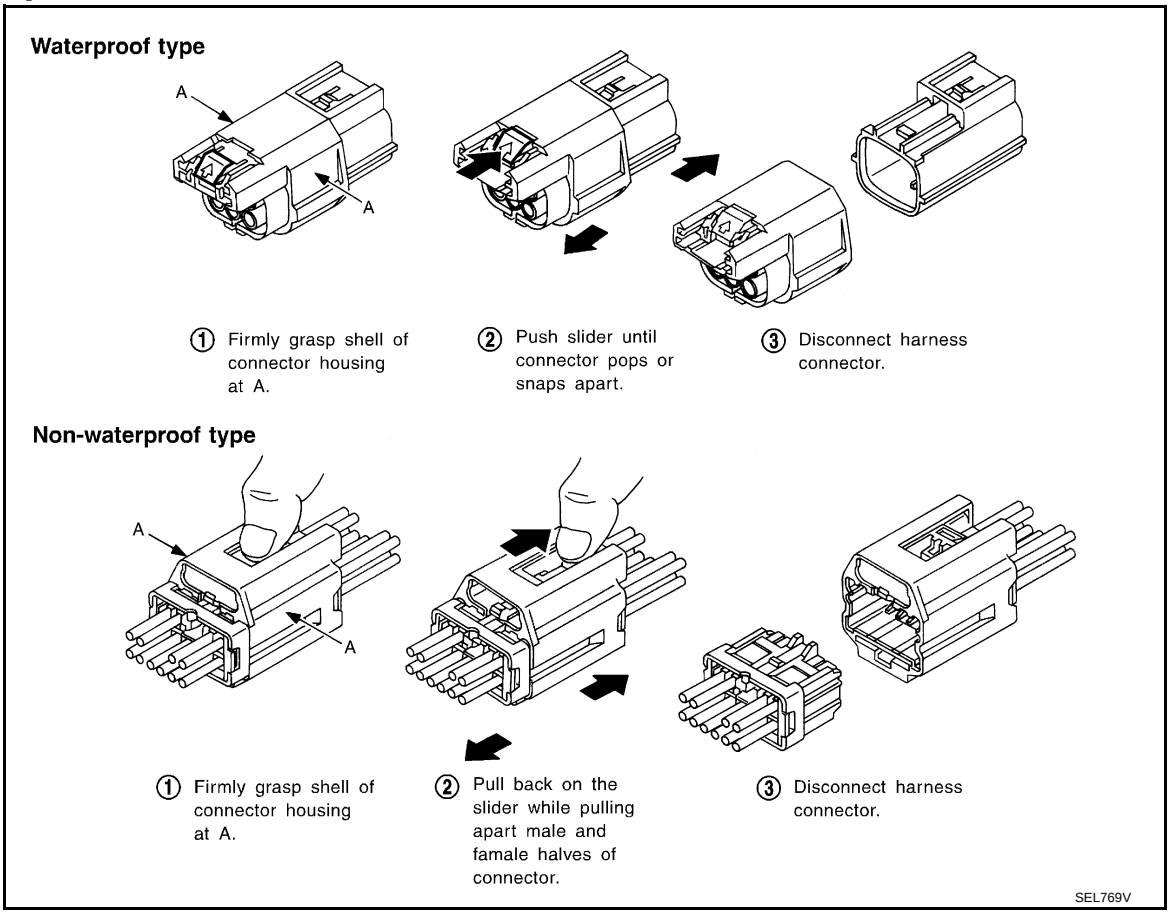
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]

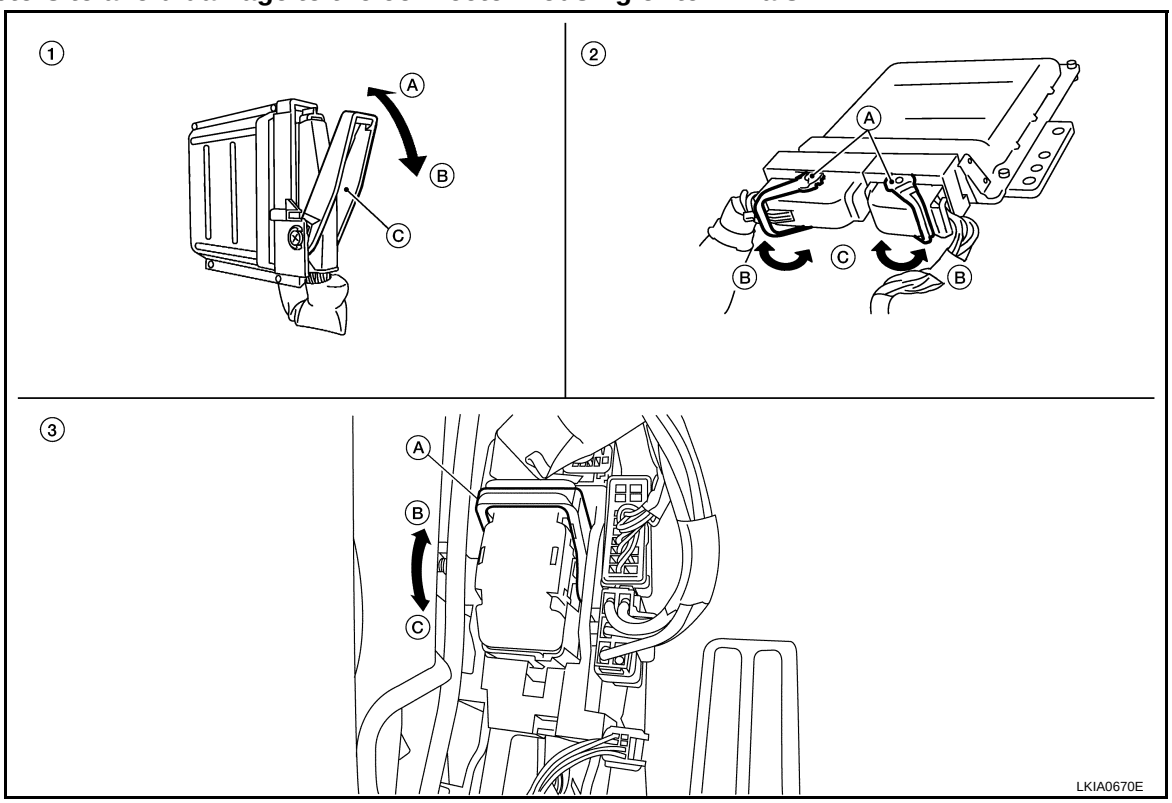


HARNESS CONNECTOR (LEVER LOCKING TYPE)

- 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

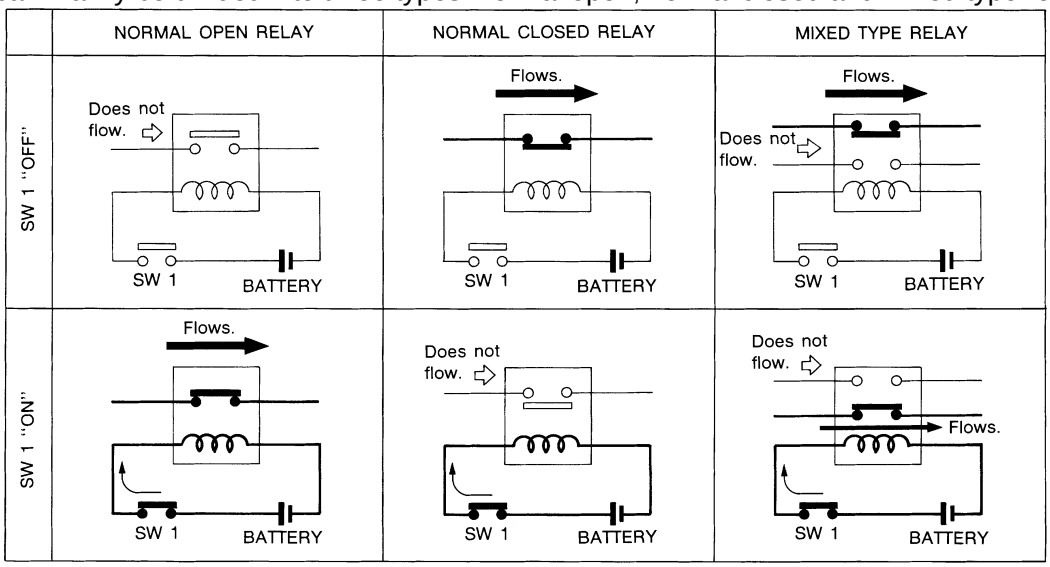
STANDARDIZED RELAY

Description

INFOID:0000000001298670

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

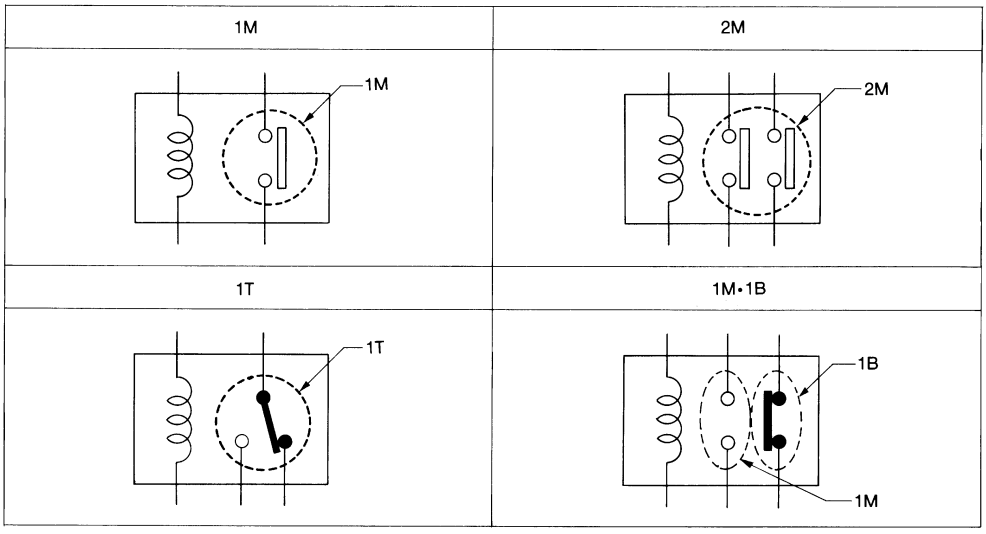
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



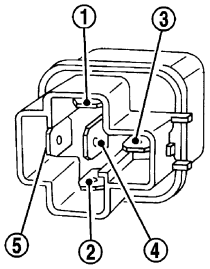
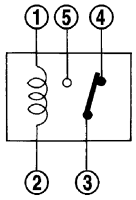
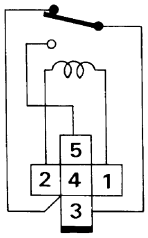
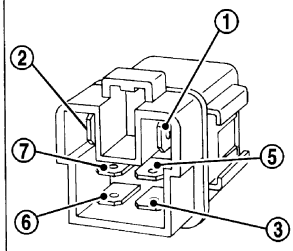
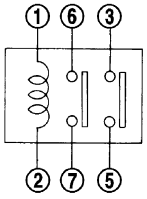
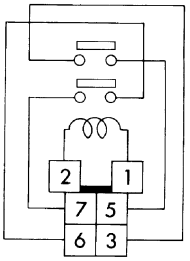
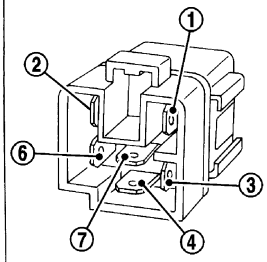
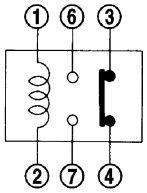
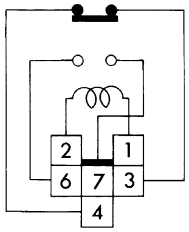
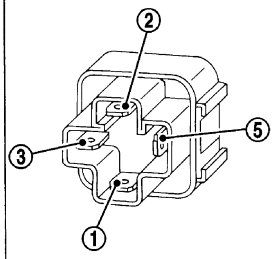
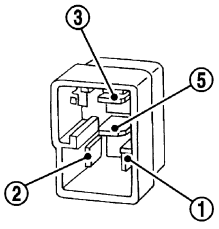
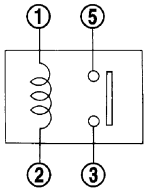
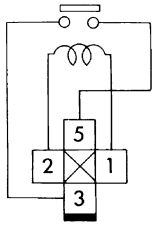
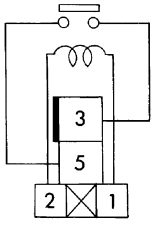
SEL881H

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

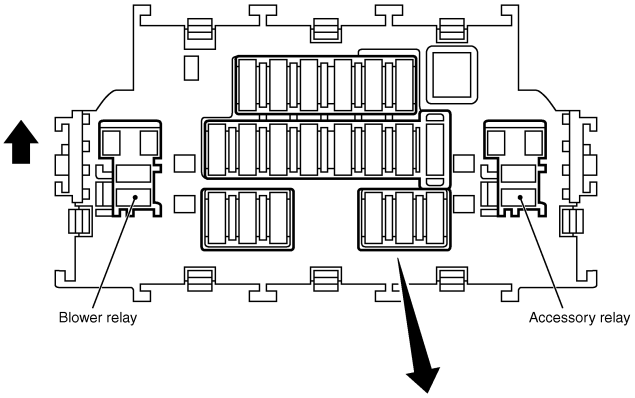
The arrangement of terminal numbers on the actual relays may differ from those shown above.

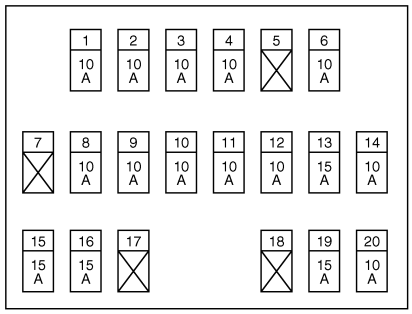
SEL188W

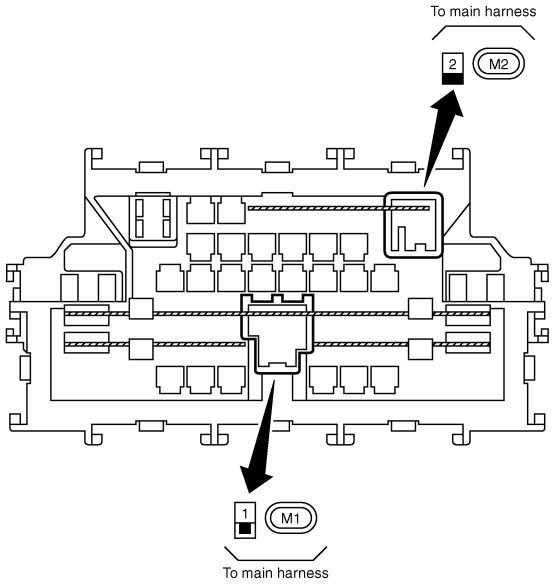
FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:0000000001298671







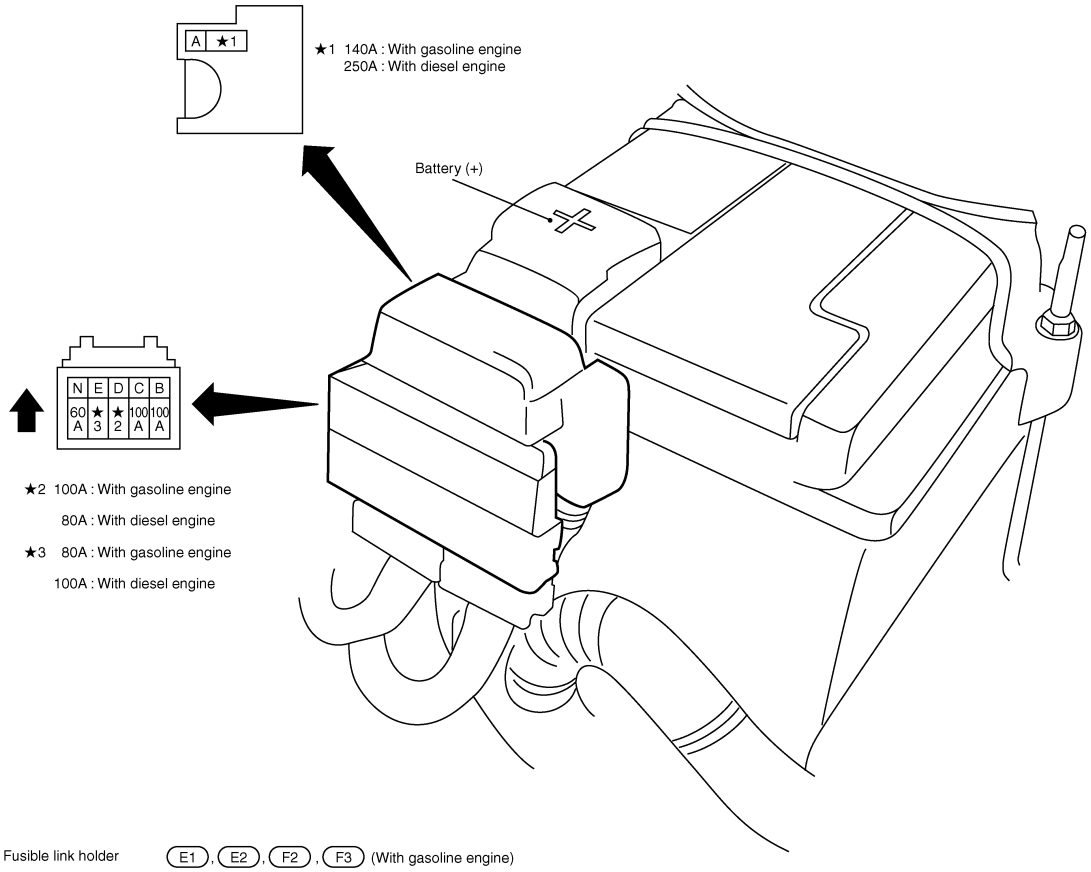
2007/02/28

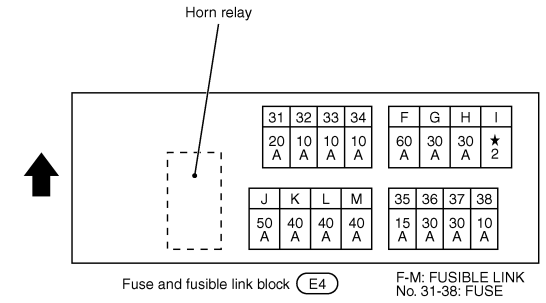
JCMWA0602GE

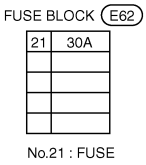
FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement

INFOID:0000000001298672







★2 40A : With MR engine without ESP
50A : Except MR engine without ESP

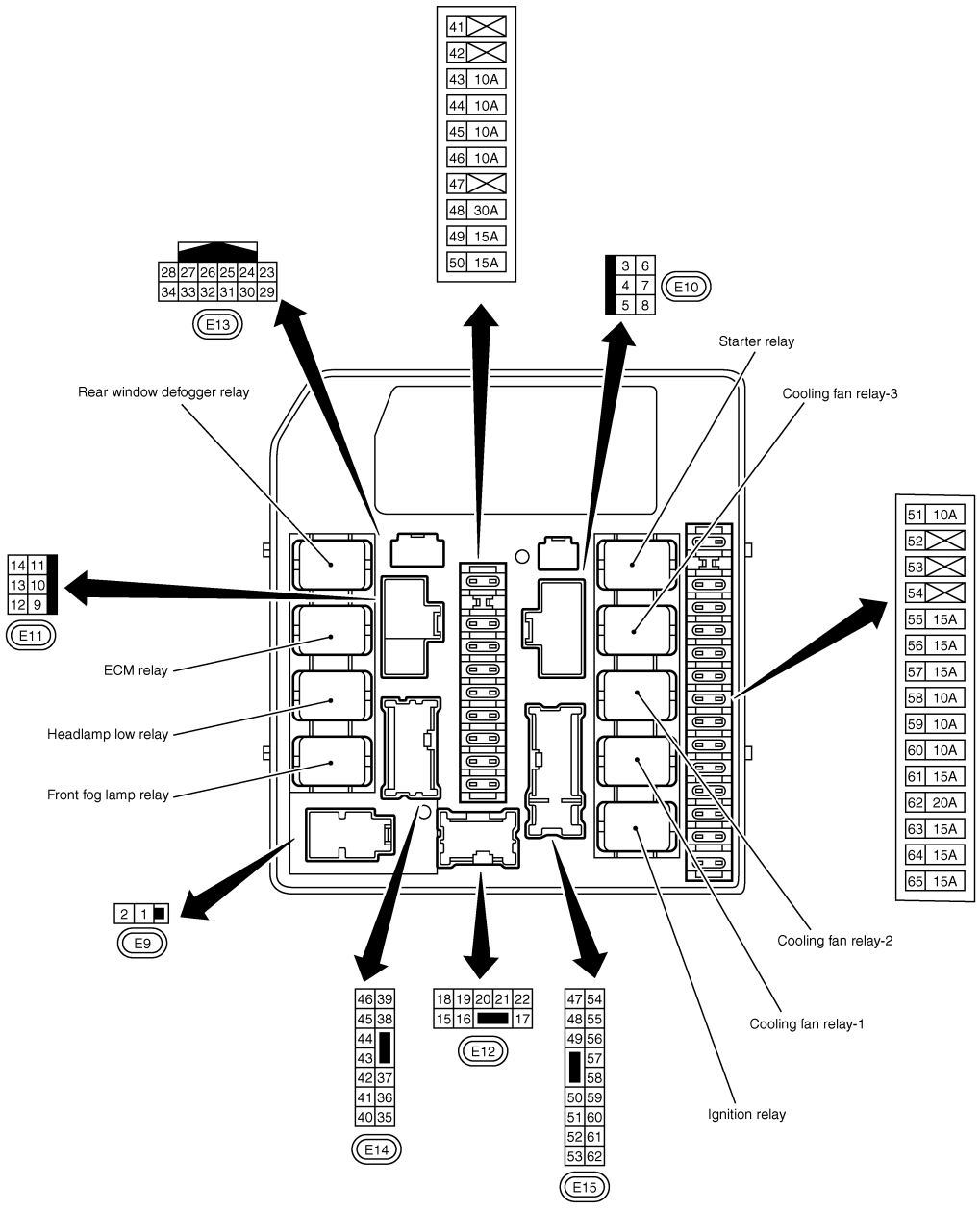
2007/02/28

JCMWA0603GB

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

Fuse, Connector and Terminal Arrangement

INFOID:0000000001298673



2007/02/28

JCMWA0604GE

PRECAUTION

PRECAUTIONS

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

INFOID:0000000001298755

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. Information necessary to service the system safely is included in the “SRS AIRBAG” and “SEAT BELT” of this Service Manual.

WARNING:

- **To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.**
- **Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see the “SRS AIRBAG”.**
- **Do not 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.**

ON-VEHICLE MAINTENANCE

BATTERY CHARGING CHART

Slow Charge

INFOID:0000000001298675

1.DETERMINE INITIAL CHARGING CURRENT

1. Determine initial charging current from specific gravity.
2. Check battery type and determine the specified current using the table.

NOTE:
After starting charging, adjustment of charging current is not necessary.

Initial Charging Current Setting (Slow Charge)

CONVERTED SPECIFIC GRAVITY	BATTERY TYPE																	
	28B19R(L)	34B19R(L)	46B24R(L)	55B24R(L)	50D23R(L)	55D23R(L)	025 [YUASA type code]	027 [YUASA type code]	80D23R(L)	65D26R(L)	80D26R(L)	067 [YUASA type code]	096 [YUASA type code]	75D31R(L)	95D31R(L)	115D31R(L)	110D26R(L)	95E41R(L)	130E41R(L)
Below 1.100	4.0 (A)		5.0 (A)		7.0 (A)				8.0 (A)				8.5 (A)	9.0 (A)	10.0 (A)				14.0 (A)

>> GO TO 2.

2.CHARGE BATTERY

1. Charge battery.
2. Check charge voltage 30 minutes after starting the battery charge.

Is the voltage between 12 V and 15 V?

YES >> GO TO 3.
NO >> Replace battery.

3.CHARGE BATTERY

Continue to charge for 12 hours.

>> GO TO 4.

4.CHECKING SPECIFIC GRAVITY

Check specific gravity. Refer to PG-3, "How to Handle Battery".

Is the specific gravity 1.240 or more?

YES >> Complete slow charge. Perform “CAPACITY TEST”. Refer to PG-5, "Work Flow".
NO >> GO TO 5.

5.CONDUCT ADDITIONAL CHARGE

Add charging time depending on specific gravity.

Additional Charge (Slow Charge)

SPECIFIC GRAVITY	CHARGING TIME (h)
Below 1.150	5
1.150 - 1.200	4
1.200 - 1.240	2

>> Complete slow charge. Perform “CAPACITY TEST”. Refer to PG-5, "Work Flow".

CAUTION:

- **Set charging current to value specified in "Initial Charging Current Setting (Slow Charge)". If charger is not capable of producing specified current value, set its charging current as close to that value as possible.**
- **Keep battery away from open flame while it is being charged.**
- **When connecting charger, connect leads first, then turn on charger. Never turn on charger first, as this may cause a spark.**
- **If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).**

Standard Charge

INFOID:0000000001298676

1. DETERMINE INITIAL CHARGING CURRENT

1. Determine initial charging current from specific gravity.
2. Check battery type and determine the specified current using the table.

NOTE:
After starting charging, adjustment of charging current is not necessary.

Initial Charging Current Setting (Standard Charge)

CONVERTED SPECIFIC GRAVITY	BATTERY TYPE																	
	28B19R(L)	34B19R(L)	46B24R(L)	55B24R(L)	50D23R(L)	55D23R(L)	025 [YUASA type code]	027 [YUASA type code]	80D23R(L)	65D26R(L)	80D26R(L)	067 [YUASA type code]	096 [YUASA type code]	75D31R(L)	95D31R(L)	115D31R(L)	110D26R(L)	95E41R(L)	130E41R(L)
1.100 - 1.130	4.0 (A)		5.0 (A)		6.0 (A)				7.0 (A)					8.0 (A)	9.0 (A)				13.0 (A)
1.130 - 1.160	3.0 (A)		4.0 (A)		5.0 (A)				6.0 (A)					7.0 (A)	8.0 (A)				11.0 (A)
1.160 - 1.190	2.0 (A)		3.0 (A)		4.0 (A)				5.0 (A)					6.0 (A)	7.0 (A)				9.0 (A)
1.190 - 1.220	2.0 (A)		2.0 (A)		3.0 (A)				4.0 (A)					5.0 (A)	5.0 (A)				7.0 (A)

>> GO TO 2.

2. CHARGE BATTERY

Charge battery for 8 hours.

>> GO TO 3.

3. CHECKING SPECIFIC GRAVITY

Check specific gravity. Refer to PG-3, "How to Handle Battery".

Is the specific gravity 1.240 or more?

YES >> Complete standard charge. Perform "CAPACITY TEST". Refer to PG-5, "Work Flow".
NO >> GO TO 4.

4. CONDUCT ADDITIONAL CHARGE

Add charging time depending on specific gravity.

Additional Charge (Standard Charge)

SPECIFIC GRAVITY	CHARGING TIME (h)
Below 1.150	3.5
1.150 - 1.200	2.5
1.200 - 1.240	1.5

>> Complete standard charge. Perform “CAPACITY TEST”. Refer to PG-5, "Work Flow".

CAUTION:

- **Never use standard charge method on a battery whose specific gravity is less than 1.100.**
- **Set charging current to value specified in “Initial Charging Current Setting (Standard Charge)”. If charger is not capable of producing specified current value, set its charging current as close to that value as possible.**
- **Keep battery away from open flame while it is being charged.**
- **When connecting charger, connect leads first, then turn on charger. Never turn on charger first, as this may cause a spark.**
- **If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).**

Quick Charge

INFOID:0000000001298677

1. DETERMINE INITIAL CHARGING CURRENT

1. Determine initial charging current setting and charging time from specific gravity.
2. Check battery type and determine the specified current using the table.

NOTE:

After starting charging, adjustment of charging current is not necessary.

Initial Charging Current Setting and Charging Time (Quick Charge)

BATTERY TYPE		28B19R(L)	34B19R(L)	46B24R(L)	55B24R(L)	50D23R(L)	55D23R(L)	80D23R(L)	65D26R(L)	80D26R(L)	025 [YUASA type code]	027 [YUASA type code]	067 [YUASA type code]	096 [YUASA type code]	75D31R(L)	95D31R(L)	115D31R(L)	110D26R(L)	95E41R(L)	130E41R(L)
CURRENT [A]		10		15			20						25		30					40
CONVERTED SPECIFIC GRAVITY	1.100 - 1.130	2.5 hours																		
	1.130 - 1.160	2.0 hours																		
	1.160 - 1.190	1.5 hours																		
	1.190 - 1.220	1.0 hour																		
	Above 1.220	0.75 hour (45 min.)																		

CAUTION:

- **Never use quick charge method on a battery whose specific gravity is less than 1.100.**
- **Set initial charging current to value specified in “Initial Charging Current Setting and Charging Time (Quick Charge)”. If charger is not capable of producing specified current value, set its charging current as close to that value as possible.**
- **Keep battery away from open flame while it is being charged.**
- **When connecting charger, connect leads first, then turn on charger. Never turn on charger first, as this may cause a spark.**
- **Be careful of a rise in battery temperature because a large current flow is required during quick-charge operation.**
  If battery temperature rises above 55°C (131°F), stop charging. Always charge battery when its temperature is below 55°C (131°F).
- **Never exceed the charging time specified in “Initial Charging Current Setting and Charging Time (Quick Charge)”, because charging battery over the charging time can cause deterioration of the battery.**

>> GO TO 2.

2.CHARGE BATTERY

Charge battery.

>> Complete quick charge. Perform “CAPACITY TEST”. Refer to PG-5, "Work Flow".

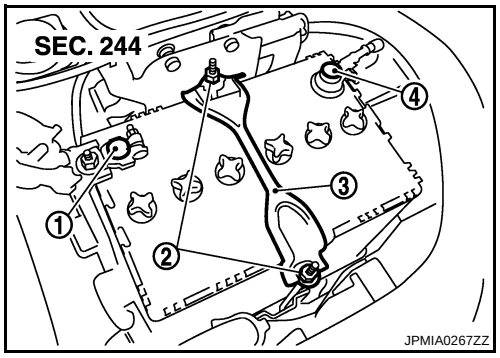
ON-VEHICLE REPAIR

BATTERY

Exploded View

INFOID:0000000001298678

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

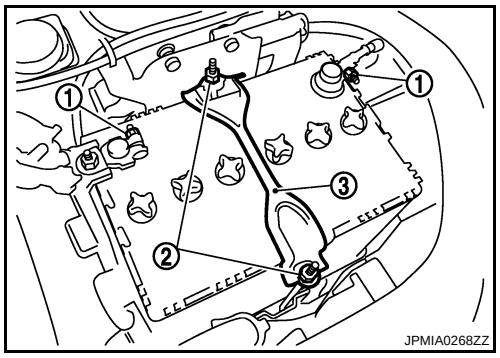


Removal and Installation

INFOID:0000000001298679

REMOVAL

1. Loosen battery terminal nuts (1), and disconnect both battery cables from battery terminals.
   CAUTION:
   When disconnecting, disconnect the battery cable from the negative terminal first.
2. Remove battery fix frame mounting nuts (2) and battery fix frame (3).
3. 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

: 5.4 N·m (0.55 kg-m, 48 in-lb)

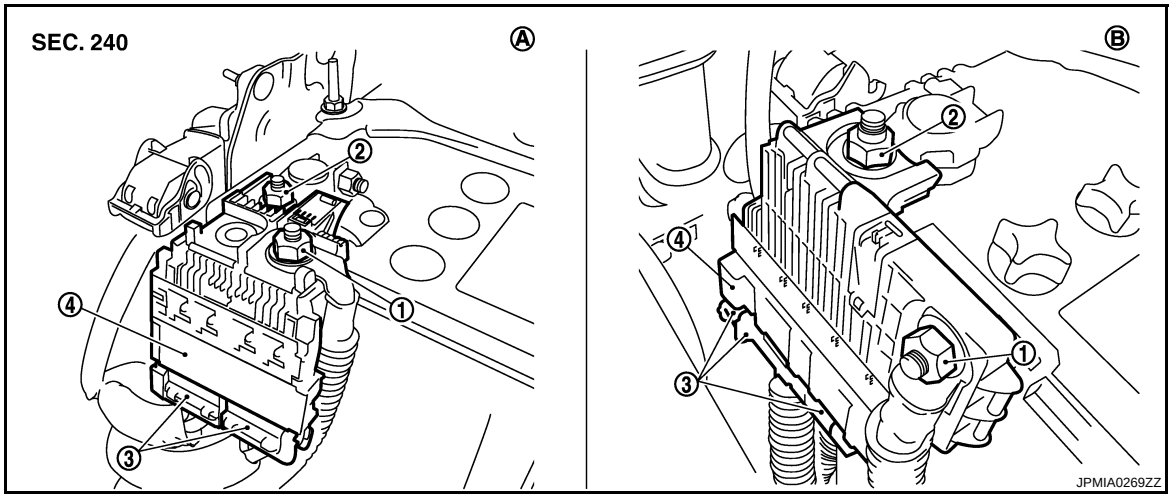
Battery terminal nut

: 5.4 N·m (0.55 kg-m, 48 in-lb)

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:0000000001298680



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

A. Gasoline engine models
B. Diesel engine models

Removal and Installation

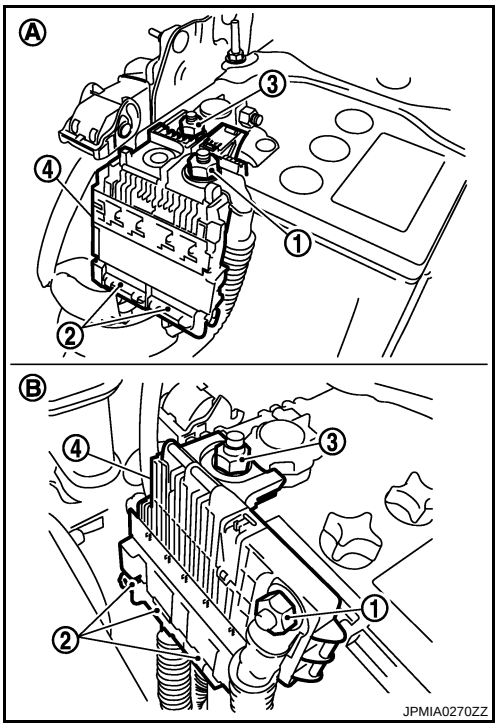
INFOID:0000000001298681

REMOVAL

1. Disconnect the battery cable from the negative terminal.
2. Remove cover of battery positive terminal.
3. Remove harness mounting nut (1) to disconnect harness connector (2).

   A : Gasoline engine models
   B : Diesel engine models

4. Remove fusible link holder mounting nut (3) to remove battery terminal with fusible link (4).



INSTALLATION

Install in the reverse order of removal.

Harness mounting nut

: 10.3 N·m (1.1 kg-m, 8 ft-lb)

Fusible link holder mounting nut

: 10.3 N·m (1.1 kg-m, 8 ft-lb)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

Battery

INFOID:0000000001298682

Specification		Gasoline engine models		Diesel engine models
		Standard	Cold option	
Type		55D23L	80D23L	110D26L
20 hour rate capacity	[V - Ah]	12 - 60	12 - 62	12 - 75
Cold cranking current (For reference value)	[A]	356	582	720