SECTION PG

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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BASIC INSPECTION

BATTERY

How to Handle Battery

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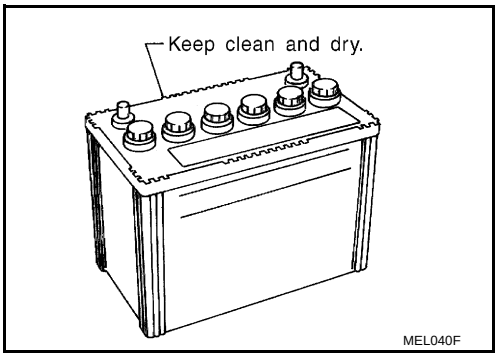
CAUTION:

- **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.**

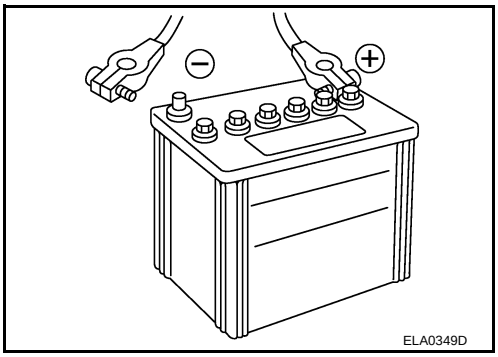
METHODS OF PREVENTING OVER-DISCHARGE

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

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



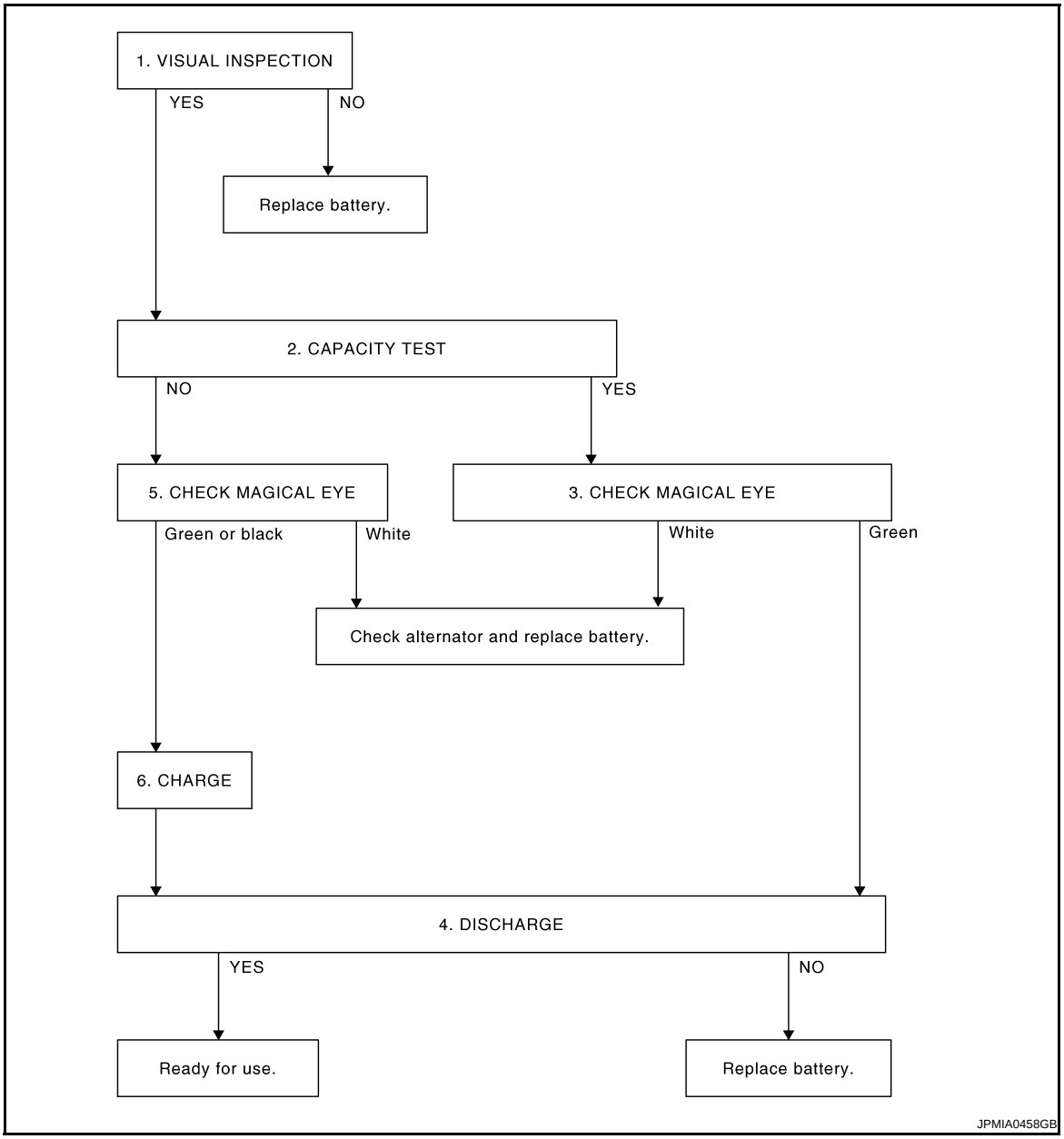
- When the vehicle is not going to be used over a long period of time, disconnect the battery cable from the negative terminal. (If the vehicle has an extended storage switch, turn it off.)



Work Flow

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OVERALL SEQUENCE



DETAILED FLOW

1.VISUAL INSPECTION

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

Are these inspection results normal?

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

2.CAPACITY TEST

Check battery voltage.

Is the voltage 12.35 V or more?

YES >> GO TO 3.
NO >> GO TO 5.

3.CHECK MAGICAL EYE

Check the color of magical eye.

Inspection results

Green >> GO TO 4.
White >> Check alternator and replace battery. Refer to the following.
- K9K models: CHG-3, "K9K MODELS : Work Flow"
- M9R/HR16DE/MR20DE models: CHG-5, "M9R/HR16DE/MR20DE MODELS : Work Flow"

4.DISCHARGE

1. Check battery type and determine the specified current using the table.

Type	Current (A)
L1	200
L2	300
L3	300

2. Perform discharge using the load tester.

Is the voltage 10 V or more?

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

5.CHECK MAGICAL EYE

Check the color of magical eye.

Inspection results

Green or black>>GO TO 6.
White >> Check alternator and replace battery. Refer to the following.
- K9K models: CHG-3, "K9K MODELS : Work Flow"
- M9R/HR16DE/MR20DE models: CHG-5, "M9R/HR16DE/MR20DE MODELS : Work Flow"

6.CHARGE

1. Determine the charge current and charging time according to the battery type.

Type	Current (A)	CHARGING TIME (h)
L1	10	8 - 12
L2	10	8 - 12
L3	10	8 - 12

2. Charge battery.

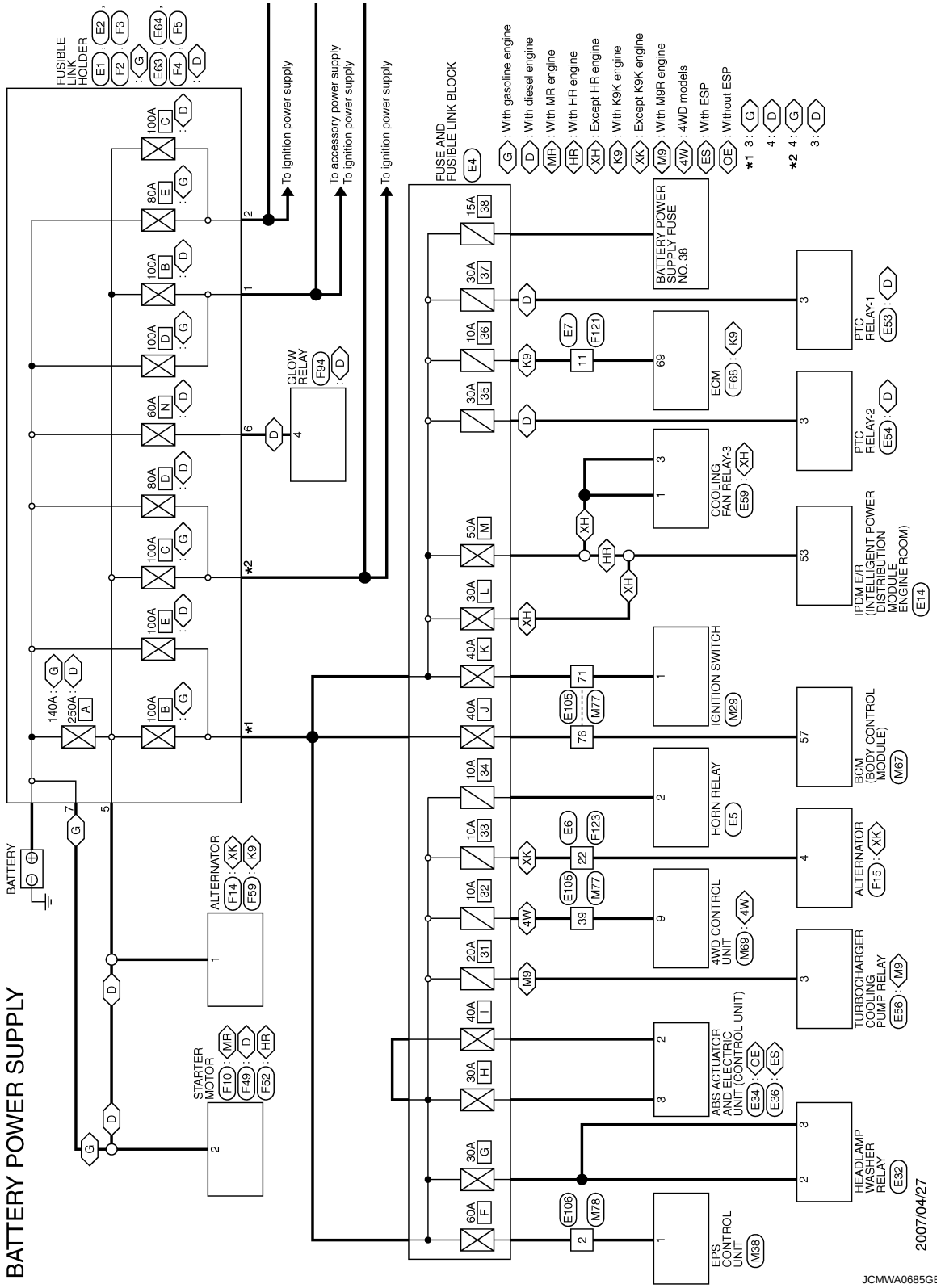
>> GO TO 4.

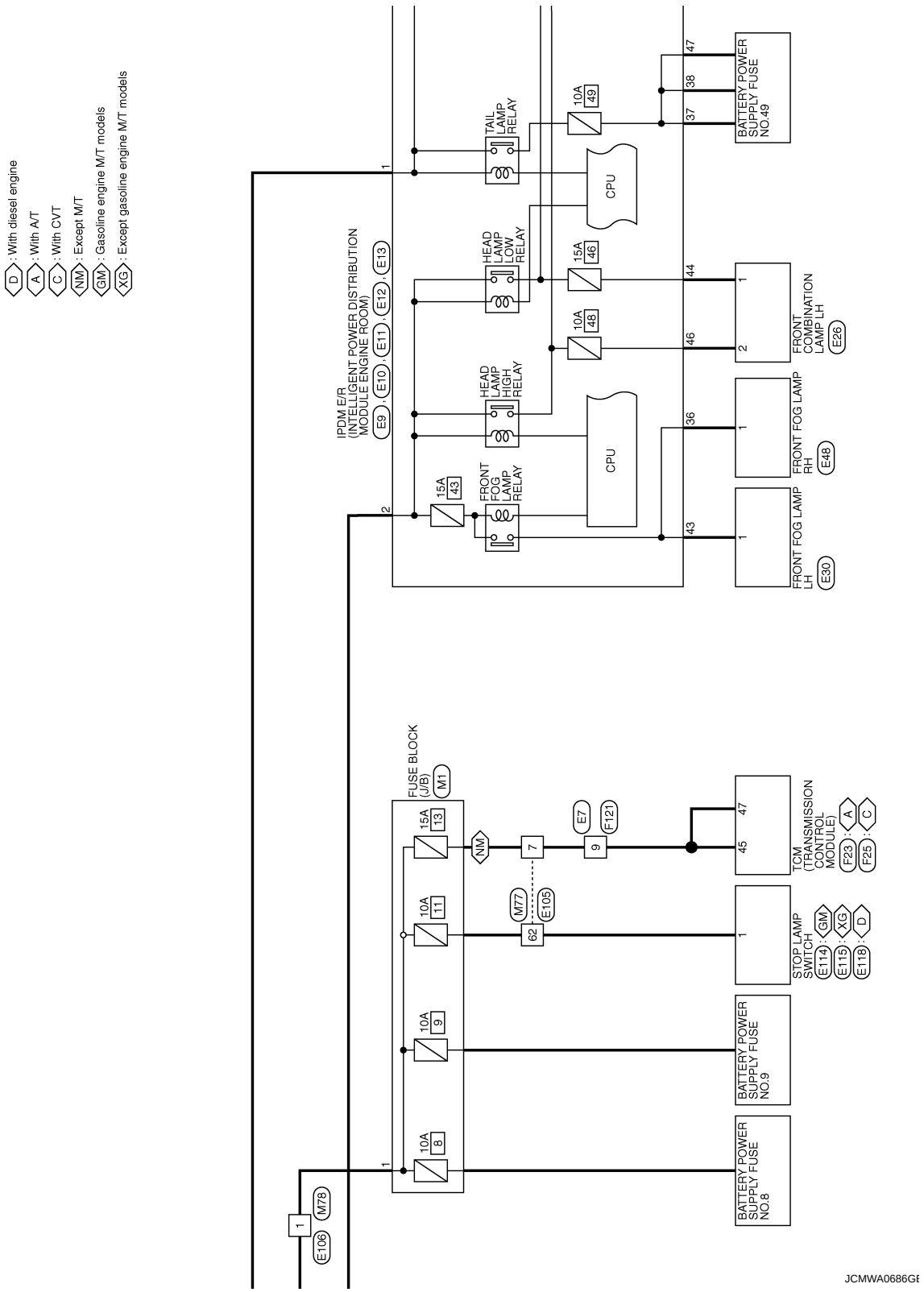
COMPONENT DIAGNOSIS

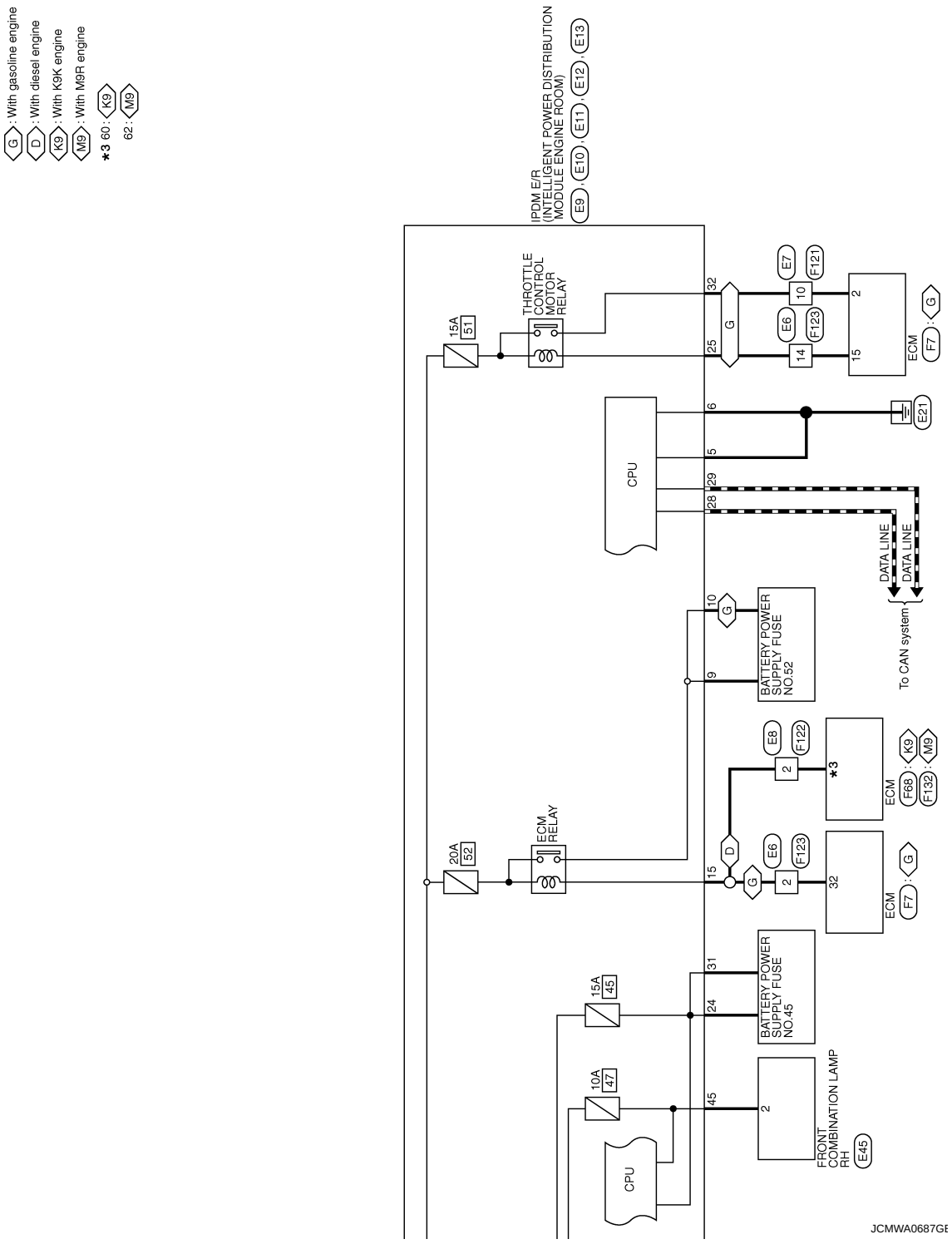
POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

INFOID:0000000001191225




D : With diesel engine
A : With A/T
C : With CVT
NM : Except M/T
GM : Gasoline engine M/T models
XG : Except gasoline engine M/T models
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9, E10, E11, E12, E13
TAIL LAMP RELAY
HEAD LAMP LOW RELAY
HEAD LAMP HIGH RELAY
FRONT FOG LAMP RELAY
CPU
10A 49
15A 46
10A 48
15A 43
BATTERY POWER SUPPLY FUSE NO.49
FRONT COMBINATION LAMP LH E26
FRONT FOG LAMP RH E48
FRONT FOG LAMP LH E30
FUSE BLOCK (J/B) M1
15A 13
10A 11
10A 9
10A 8
BATTERY POWER SUPPLY FUSE NO.9
BATTERY POWER SUPPLY FUSE NO.8
E7
F121
M77
E105
TCM (TRANSMISSION CONTROL MODULE)
F23 : A
F25 : C
STOP LAMP SWITCH
E114 : GM
E115 : XG
E118 : D
E106
M78
JCMWA0686GB


G : With gasoline engine
D : With diesel engine
K9 : With K9K engine
M9 : With M9R engine
*3 60 : K9
62 : M9
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9 , E10 , E11 , E12 , E13
15A 51
THROTTLE CONTROL MOTOR RELAY
32
25
G
E7
F121
10
E6
F123
14
2
15
ECM
F7 : G
CPU
6
5
29
28
E21
DATA LINE
DATA LINE
To CAN system
10
9
BATTERY POWER SUPPLY FUSE NO.52
E8
F122
2
*3
ECM
F68 : K9
F132 : M9
20A 52
ECM RELAY
15
D
G
E6
F123
2
32
ECM
F7 : G
31
24
BATTERY POWER SUPPLY FUSE NO.45
15A 45
10A 47
45
2
FRONT COMBINATION LAMP RH
E45
CPU
JCMWA0687GE

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	W	–
2	G	–

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

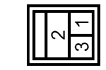
H.S.



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

Connector No.	E5
Connector Name	HORN RELAY
Connector Type	–

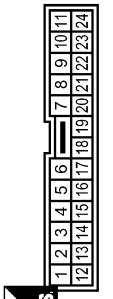
H.S.



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

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

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	Y/L	–
14	G/L	–[Except M9R engine]
22	Y/R	–

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
9	R/B	–
10	R/Y	–[With gasoline engine]
11	L/B	–[With diesel engine]

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LC

H.S.

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

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	G	–
2	R	–

Connector No.	E10
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]
5	B	–
6	B	–

JCMWA0688GB

BATTERY POWER SUPPLY

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS

H.S.

13 12 11 10 9
20 19 18 17 16 15 14

Terminal No.	Color of Wire	Signal Name [Specification]
9	G	–
10	L/R	–
15	Y/L	– [With gasoline engine]
15	B/R	– [With diesel engine]

Connector No.	E12
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FW-CS

H.S.

25 24 23 22 21
32 31 30 29 28 27 26

Terminal No.	Color of Wire	Signal Name [Specification]
24	R/Y	–
25	G/L	–
28	L	–
29	P	–
31	R	–
32	R/Y	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

H.S.

39 38 37 36 35 34 33
48 47 46 45 44 43 42 41 40

Terminal No.	Color of Wire	Signal Name [Specification]
36	W	–
37	R/W	–
38	R/L	–
43	W/B	–
44	L	–
45	L/W	–
46	G	–
47	R/L	–

Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	Y2K 7283-5591-40-F

H.S.

51 50 49
54 53 52

Terminal No.	Color of Wire	Signal Name [Specification]
53	W/B	–

Connector No.	E26
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	AMP 953600-1

H.S.

5 4 3 2 1

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

Connector No.	E30
Connector Name	FRONT FOG LAMP LH
Connector Type	FCI 240PC023S4019

H.S.

2 1

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

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

H.S.

1
2
3 4

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

Connector No.	E34
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA22FB-AHZ4-LH

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

Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	+B(MTR)
3	W/R	+B(SOL)

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BATTERY POWER SUPPLY

Connector No.	E36
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA22FB-AH24-LH

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	Y	+B(MTR)
3	W/R	+B(SOL)

Connector No.	E45
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	AMP 953600-1

H.S.

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

Connector No.	E48
Connector Name	FRONT FOG LAMP RH
Connector Type	FCI 240FC023S4019

H.S.

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

Connector No.	E53
Connector Name	PTC RELAY-1
Connector Type	24347 9F300

H.S.

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

Connector No.	E54
Connector Name	PTC RELAY-2
Connector Type	24347 9F900

H.S.

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

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

H.S.

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

Connector No.	E59
Connector Name	COOLING FAN RELAY-3
Connector Type	24347 9F900

H.S.

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

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

H.S.

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

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BATTERY POWER SUPPLY

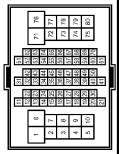
Connector No.	E64
Connector Name	FUSIBLE LINK HOLDER
Connector Type	L02FBR-MC-B

H.S.

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
7	R/B	–
39	G/R	–
62	V	–
71	L	–
76	Y	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC

H.S.



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

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

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	–

Connector No.	E118
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC

H.S.



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

Connector No.	F2
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24340 79907

H.S.



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

Connector No.	F3
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24340 79906

H.S.



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

JCMWA0691GE

BATTERY POWER SUPPLY

Connector No.	F4
Connector Name	FUSIBLE LINK HOLDER
Connector Type	24348 51E09

H.S.



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

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

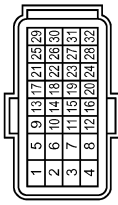
H.S.



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

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

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	R/Y	VMOT
15	G/L	MOTRLY
32	Y/L	SSOFF

Connector No.	F10
Connector Name	STARTER MOTOR
Connector Type	–

H.S.



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

Connector No.	F14
Connector Name	ALTERNATOR
Connector Type	–

H.S.



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

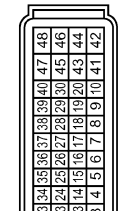
Connector No.	F15
Connector Name	ALTERNATOR
Connector Type	HS03FB

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
4	Y/R	S

Connector No.	F23
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	MOLEX 500994-4111

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
45	R/B	VBATT
47	R/B	VBATT

Connector No.	F25
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	MOLEX 500994-4111

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
45	R/B	BATT
47	R/B	BATT

JCMWA0692GB

BATTERY POWER SUPPLY

Connector No.	F49
Connector Name	STARTER MOTOR
Connector Type	–

H.S.



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

Connector No.	F52
Connector Name	STARTER MOTOR
Connector Type	–

H.S.



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

Connector No.	F59
Connector Name	ALTERNATOR
Connector Type	–

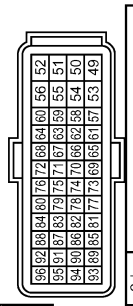
H.S.



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

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

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
60	B/R	CU RELAY DRIVE
69	L/B	VBD (DIRECT/VBATT)

Connector No.	F94
Connector Name	GLOW RELAY
Connector Type	FCI 240PC089S0015

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
9	R/B	–
10	R/Y	–[With gasoline engine]
11	L/B	–[With diesel engine]

Connector No.	F122
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC

H.S.

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

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

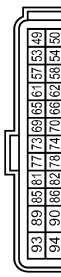
H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
2	Y/L	–
14	G/L	–[Except M9R engine]
22	Y/R	–

JCMWA0693GE

BATTERY POWER SUPPLY

Connector No.	F132
Connector Name	ECM
Connector Type	MAA40FBR-MEA8-RH



Terminal No.	Color of Wire	Signal Name [Specification]
62	B/R	MAIN RLY

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



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

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



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

Connector No.	M38
Connector Name	EPS CONTROL UNIT
Connector Type	TYCO 0-1544567-1



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

Connector No.	M67
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC083S0017

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

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

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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4

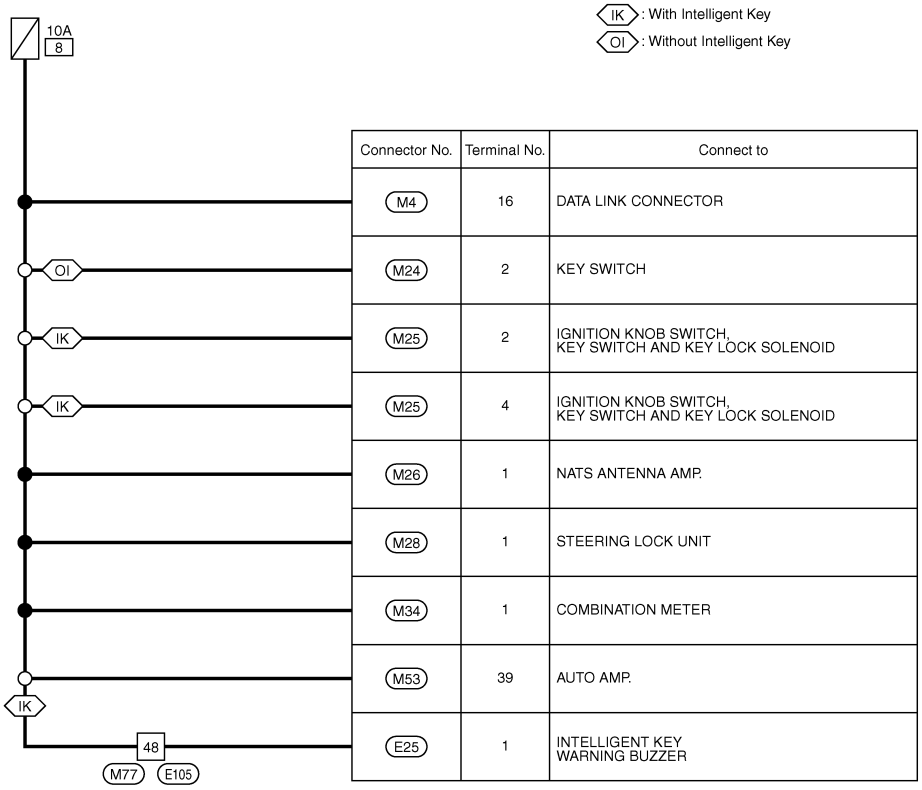
Terminal No.	Color of Wire	Signal Name [Specification]
7	R/B	-
39	G	-
62	V	-
71	L	-
76	Y	-

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC

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

JCMWA0694GB

BATTERY POWER SUPPLY FUSE NO.8



Connector No.	Terminal No.	Connect to
M4	16	DATA LINK CONNECTOR
M24	2	KEY SWITCH
M25	2	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
M25	4	IGNITION KNOB SWITCH, KEY SWITCH AND KEY LOCK SOLENOID
M26	1	NATS ANTENNA AMP.
M28	1	STEERING LOCK UNIT
M34	1	COMBINATION METER
M53	39	AUTO AMP.
E25	1	INTELLIGENT KEY WARNING BUZZER

2006/12/08

JCMWA0440GE

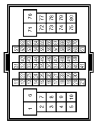
BATTERY POWER SUPPLY FUSE NO.8

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



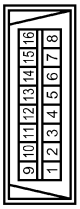
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



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

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



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

Connector No.	M24
Connector Name	KEY SWITCH
Connector Type	A02MW



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

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



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

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

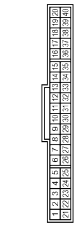
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	–

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



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW



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

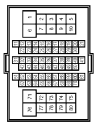
JCMWA0441GB

BATTERY POWER SUPPLY FUSE NO.8

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

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

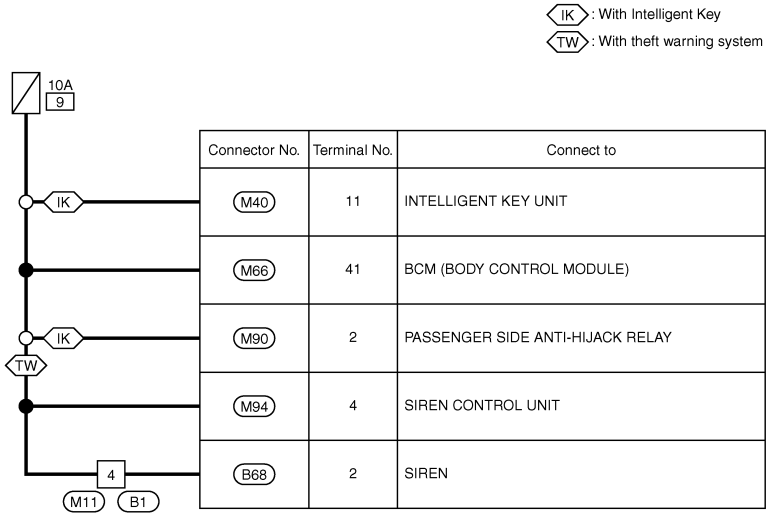
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-NS16-TM4



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

JCMWA0442GE

BATTERY POWER SUPPLY FUSE NO.9



Connector No.	Terminal No.	Connect to
M40	11	INTELLIGENT KEY UNIT
M66	41	BCM (BODY CONTROL MODULE)
M90	2	PASSENGER SIDE ANTI-HIJACK RELAY
M94	4	SIREN CONTROL UNIT
B68	2	SIREN

2006/12/08

JCMWA0443GE

BATTERY POWER SUPPLY FUSE NO.9

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW

H.S.

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

Connector No.	B68
Connector Name	SIREN
Connector Type	RH06FB

H.S.

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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW

H.S.

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

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

H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
11	V	BATT+

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FCI 211PC122S1017

H.S.

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

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

H.S.

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

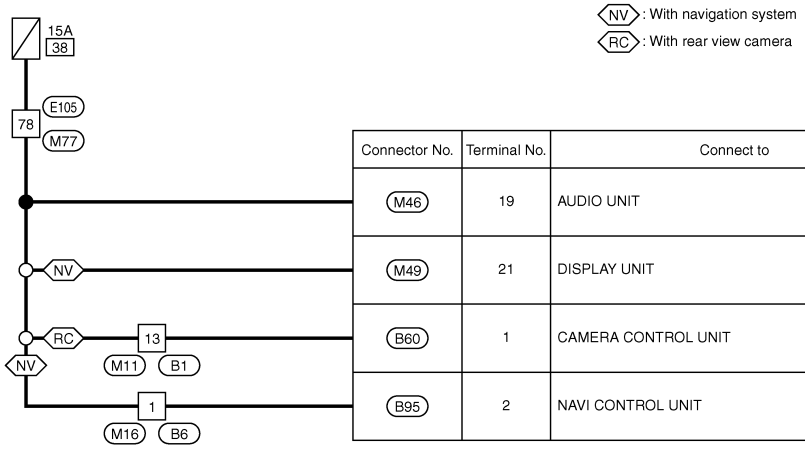
Connector No.	M94
Connector Name	SIREN CONTROL UNIT
Connector Type	A08FW

H.S.

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

JCMWA0444GE

BATTERY POWER SUPPLY FUSE NO.38



Connector No.	Terminal No.	Connect to
M46	19	AUDIO UNIT
M49	21	DISPLAY UNIT
B60	1	CAMERA CONTROL UNIT
B95	2	NAVI CONTROL UNIT

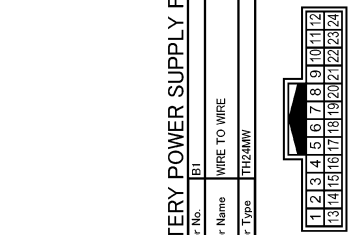
2006/12/08

JCMWA0445GE

BATTERY POWER SUPPLY FUSE NO.38

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW

H.S.



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

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH12MW

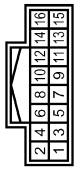
H.S.



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

Connector No.	B60
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH16FW

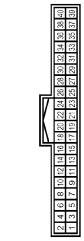
H.S.



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

Connector No.	B95
Connector Name	NAVI CONTROL UNIT
Connector Type	TH40FW

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
2	LG	BATTERY

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-NS16-TM4

H.S.

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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW

H.S.

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

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Type	TH12FW

H.S.

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

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

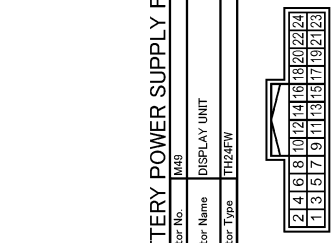
H.S.

Terminal No.	Color of Wire	Signal Name [Specification]
19	LG	BATTERY

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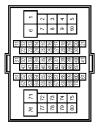
BATTERY POWER SUPPLY FUSE NO.38

Connector No.	M49
Connector Name	DISPLAY UNIT
Connector Type	TH24FW



Terminal No.	Color of Wire	Signal Name [Specification]
21	LG	BATTERY

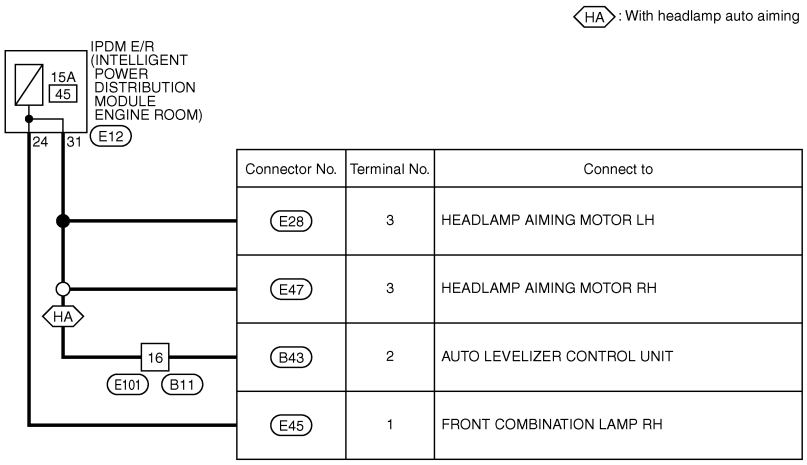
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4



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

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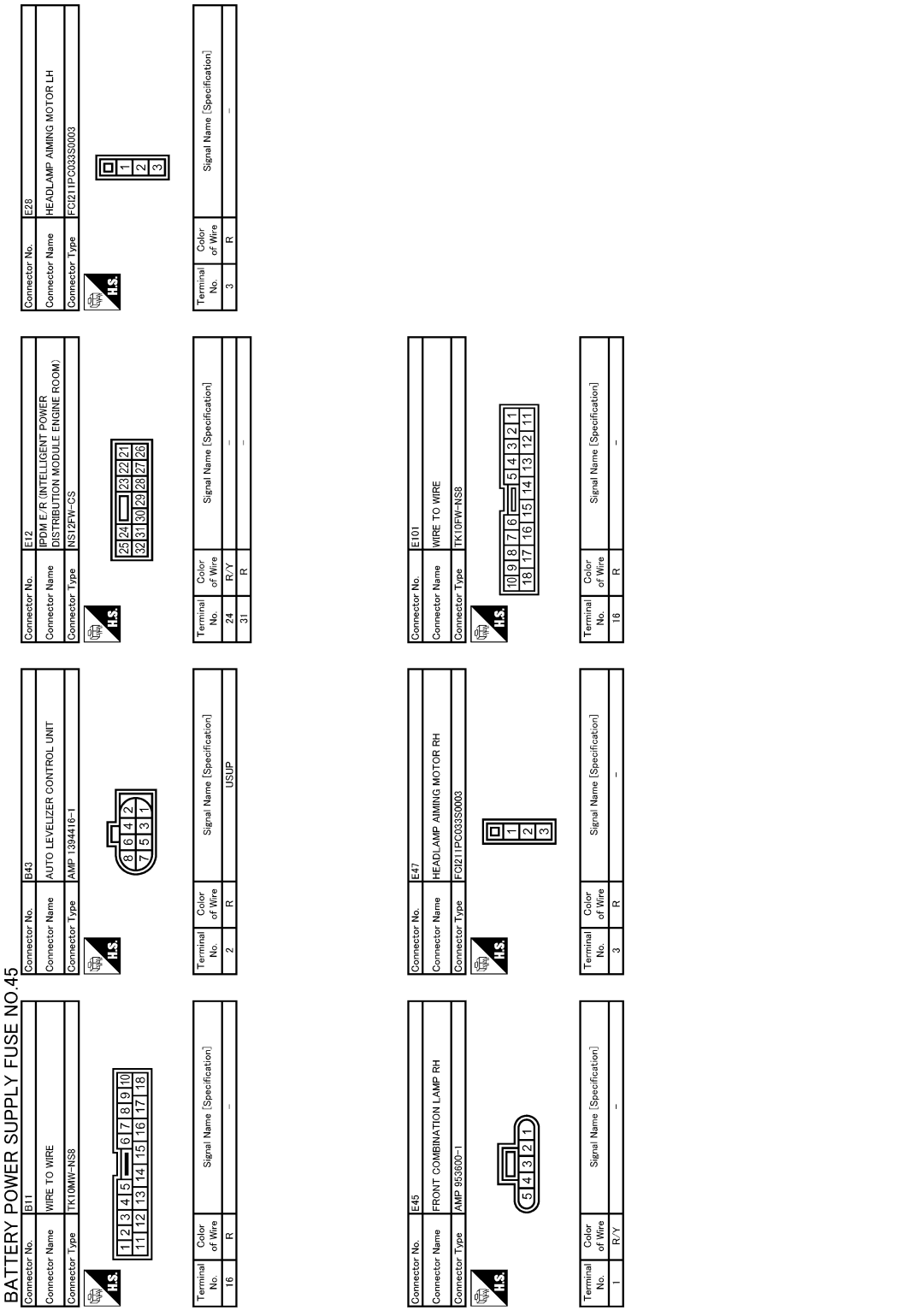
BATTERY POWER SUPPLY FUSE NO.45



Connector No.	Terminal No.	Connect to
E28	3	HEADLAMP AIMING MOTOR LH
E47	3	HEADLAMP AIMING MOTOR RH
B43	2	AUTO LEVELIZER CONTROL UNIT
E45	1	FRONT COMBINATION LAMP RH

2006/12/08

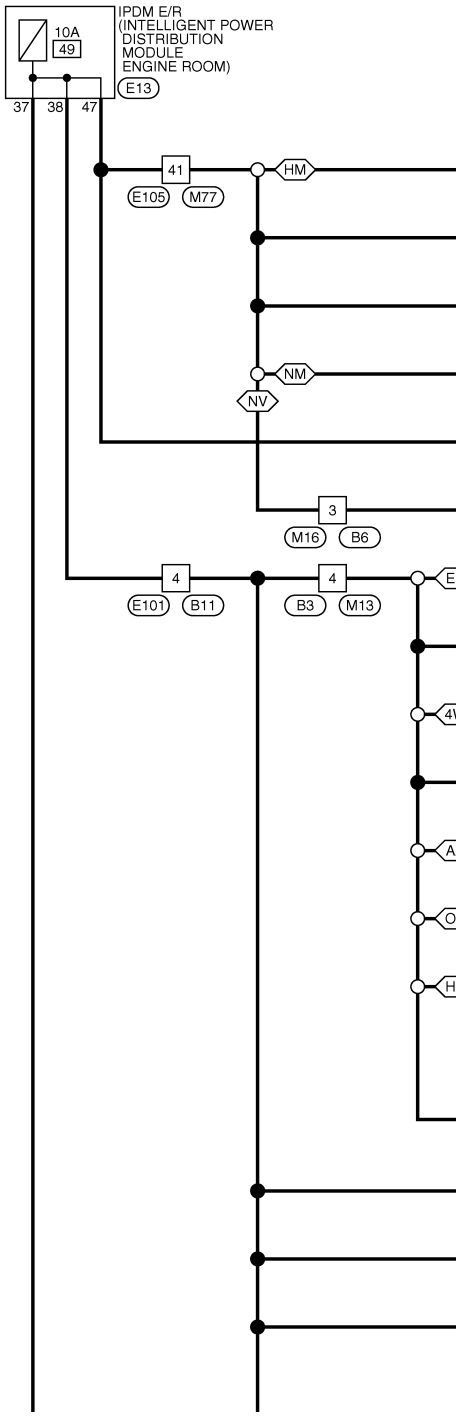
JCMWA0448GE



JCMWA0449GB

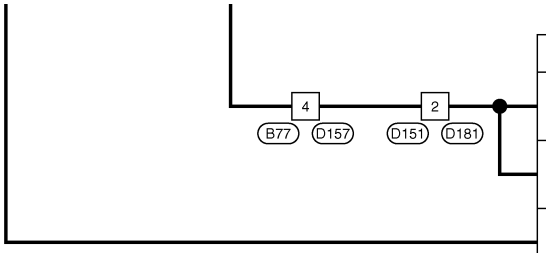
BATTERY POWER SUPPLY FUSE NO.49

NM : Except M/T
4W : 4WD models
ES : With ESP
NV : With navigation system
AA : With auto A/C
OA : Without auto A/C
HM : With headlamp manual aiming
HS : With heated seat



Connector No.	Terminal No.	Connect to
M6	3	HEAD LAMP AIMING SWITCH
M45	4	HAZARD SWITCH
M46	9	AUDIO UNIT
M57	5	CONTROL DEVICE
E24	1	PARKING LAMP LH
B96	61	NAVI CONTROL UNIT
M5	3	ESP OFF SWITCH
M7	10	DOOR MIRROR REMOTE CONTROL SWITCH
M8	7	4WD MODE SWITCH
M52	1	HIGH-LEVEL VENT SWITCH
M53	16	AUTO AMP.
M54	2	HEATER CONTROL PANEL
M55	1	HEATED SEAT SWITCH LH
M56	1	HEATED SEAT SWITCH RH
M89	3	DOOR LOCK AND UNLOCK SWITCH
B43	6	AUTO LEVELIZER CONTROL UNIT
B59	2	REAR COMBINATION LAMP RH
B80	2	REAR COMBINATION LAMP LH

JCMWA0701GE



Connector No.	Terminal No.	Connect to
D184	1	LICENSE PLATE LAMP LH
D185	1	LICENSE PLATE LAMP RH
E43	1	PARKING LAMP RH

2007/04/27

JCMWA0702GE

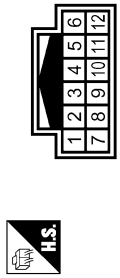
BATTERY POWER SUPPLY FUSE NO.49

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



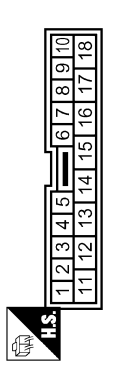
Terminal No.	Color of Wire	Signal Name [Specification]
4	R/L	–

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH12MW



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

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



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

Connector No.	B43
Connector Name	AUTO LEVELIZER CONTROL UNIT
Connector Type	AMP 1394416-1



Terminal No.	Color of Wire	Signal Name [Specification]
6	R/L	A/D

Connector No.	B59
Connector Name	REAR COMBINATION LAMP RH
Connector Type	FCI 211PC042S4021

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

Connector No.	B77
Connector Name	WIRE TO WIRE
Connector Type	TH08FW

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

Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH
Connector Type	FCI 211PC042S4021

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

Connector No.	B96
Connector Name	NAVI CONTROL UNIT
Connector Type	TH32FW

Terminal No.	Color of Wire	Signal Name [Specification]
61	R/L	ILLUMINATION

JCMWA0703GE

BATTERY POWER SUPPLY FUSE NO.49

Connector No.	D151
Connector Name	WIRE TO WIRE
Connector Type	TH08MW

H.S.



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

Connector No.	D157
Connector Name	WIRE TO WIRE
Connector Type	TH08MW

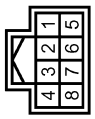
H.S.



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

Connector No.	D181
Connector Name	WIRE TO WIRE
Connector Type	TH08FW

H.S.



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

Connector No.	D184
Connector Name	LICENSE PLATE LAMP LH
Connector Type	TRW 3020423100D

H.S.



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

Connector No.	D185
Connector Name	LICENSE PLATE LAMP RH
Connector Type	TRW 3020423100D

H.S.

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

Connector No.	E13
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]
37	R/W	–
38	R/L	–
47	R/L	–

Connector No.	E24
Connector Name	PARKING LAMP LH
Connector Type	RH02FB

H.S.



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

Connector No.	E43
Connector Name	PARKING LAMP RH
Connector Type	RH02FB

H.S.



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

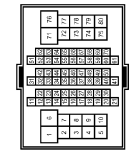
JCMWA0704GB

BATTERY POWER SUPPLY FUSE NO.49

Connector No.	E101
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8

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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
41	R/L	–

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



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

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



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

Connector No.	M7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	NS10FW-CS

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

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

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

Connector No.	M13
Connector Name	WIRE TO WIRE
Connector Type	TH24FW

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

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Type	TH12FW

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

JCMWA0705GE

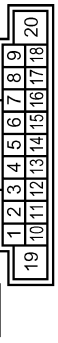
BATTERY POWER SUPPLY FUSE NO.49

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	CINCH REF 49308EV4M9 (WHITE)



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

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



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

Connector No.	M52
Connector Name	HIGH-LEVEL VENT SWITCH
Connector Type	CINCH 49305EV4M5



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

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



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

Connector No.	M54
Connector Name	HEATER CONTROL PANEL
Connector Type	TK20FGY

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

Connector No.	M55
Connector Name	HEATED SEAT SWITCH LH
Connector Type	MOLEX 98172-1005 (BROWN)

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

Connector No.	M56
Connector Name	HEATED SEAT SWITCH RH
Connector Type	MOLEX 98172-1002 (BLACK)

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

Connector No.	M57
Connector Name	CONTROL DEVICE
Connector Type	TH16FW

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

JCMWA0706GE

BATTERY POWER SUPPLY FUSE NO.49

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4

H.S.

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

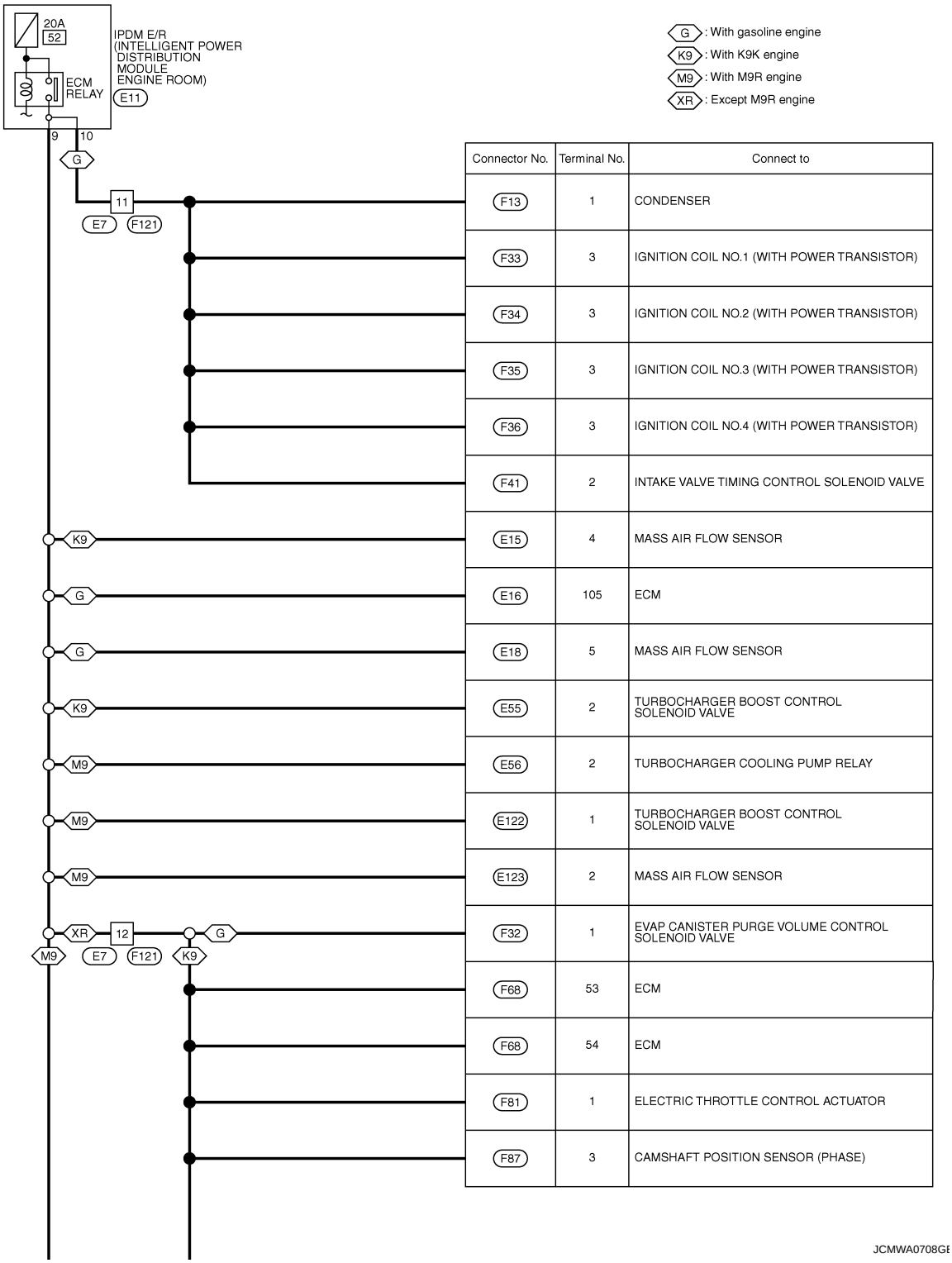
Connector No.	M89
Connector Name	DOOR LOCK AND UNLOCK SWITCH
Connector Type	7703197674

H.S.

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

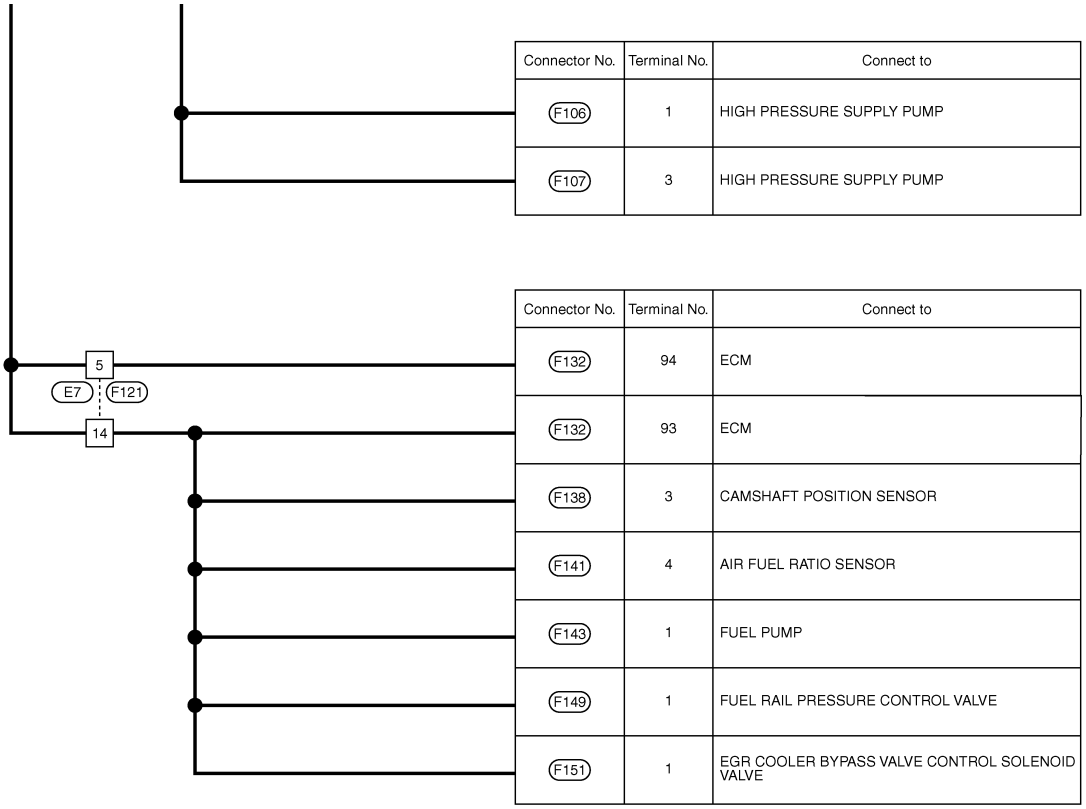
JCMWA0707GE

BATTERY POWER SUPPLY FUSE NO.52



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	2	INTAKE VALVE TIMING CONTROL SOLENOID VALVE
E15	4	MASS AIR FLOW SENSOR
E16	105	ECM
E18	5	MASS AIR FLOW SENSOR
E55	2	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
E56	2	TURBOCHARGER COOLING PUMP RELAY
E122	1	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
E123	2	MASS AIR FLOW SENSOR
F32	1	EVAP CANISTER PURGE VOLUME CONTROL SOLENOID VALVE
F68	53	ECM
F68	54	ECM
F81	1	ELECTRIC THROTTLE CONTROL ACTUATOR
F87	3	CAMSHAFT POSITION SENSOR (PHASE)

JCMWA0708GE



Connector No.	Terminal No.	Connect to
F106	1	HIGH PRESSURE SUPPLY PUMP
F107	3	HIGH PRESSURE SUPPLY PUMP

Connector No.	Terminal No.	Connect to
F132	94	ECM
F132	93	ECM
F138	3	CAMSHAFT POSITION SENSOR
F141	4	AIR FUEL RATIO SENSOR
F143	1	FUEL PUMP
F149	1	FUEL RAIL PRESSURE CONTROL VALVE
F151	1	EGR COOLER BYPASS VALVE CONTROL SOLENOID VALVE

2007/04/27

JCMWA0831GE

BATTERY POWER SUPPLY FUSE NO.52

Connector No.	E7
Connector Name	WIRE TO WIRE
Connector Type	NS18MW-CS

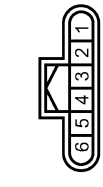


Terminal No.	Color of Wire	Signal Name [Specification]
5	G	– [With M9R engine]
11	L/R	– [With gasoline engine]
12	G	–
14	G	– [With M9R engine]

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS

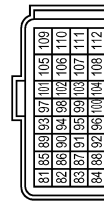
Terminal No.	Color of Wire	Signal Name [Specification]
9	G	–
10	L/R	–

Connector No.	E15
Connector Name	MASS AIR FLOW SENSOR
Connector Type	RH06FB



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

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



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

Connector No.	E18
Connector Name	MASS AIR FLOW SENSOR
Connector Type	RH06FB

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

Connector No.	E55
Connector Name	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
Connector Type	SUPPLIRE REF 282788-1

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

Connector No.	E56
Connector Name	TURBOCHARGER COOLING PUMP RELAY
Connector Type	MSI02FL-M2

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

Connector No.	E122
Connector Name	TURBOCHARGER BOOST CONTROL SOLENOID VALVE
Connector Type	BS02FB-AHY-S

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	(+)

JCMWA0709GE

BATTERY POWER SUPPLY FUSE NO.52

Connector No.	E123
Connector Name	MASS AIR FLOW SENSOR
Connector Type	YZK-7283-8850-30

H.S.

6 5 4 3 2 1

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

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

H.S.

1 2

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

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

H.S.

1 2

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

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

H.S.

1 2 3

Terminal No.	Color of Wire	Signal Name [Specification]
3	L/R	-

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

H.S.

1 2 3

Terminal No.	Color of Wire	Signal Name [Specification]
3	L/R	-

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

H.S.

1 2 3

Terminal No.	Color of Wire	Signal Name [Specification]
3	L/R	-

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

H.S.

1 2 3

Terminal No.	Color of Wire	Signal Name [Specification]
3	L/R	-

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

H.S.

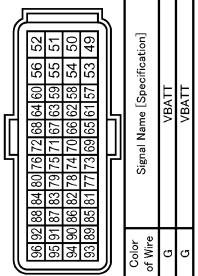
1 2

Terminal No.	Color of Wire	Signal Name [Specification]
2	L/R	-

JCMWA0710GE

BATTERY POWER SUPPLY FUSE NO.52

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



Terminal No.	Color of Wire	Signal Name [Specification]
53	G	VBATT
53	G	VBATT
54	G	VBATT

Connector No.	F81
Connector Name	ELECTRIC THROTTLE CONTROL ACTUATOR
Connector Type	FEP 4212I200



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

Connector No.	F87
Connector Name	CAMSHAFT POSITION SENSOR (PHASE)
Connector Type	FEA03FB



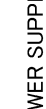
Terminal No.	Color of Wire	Signal Name [Specification]
3	G	–

Connector No.	F106
Connector Name	HIGH PRESSURE SUPPLY PUMP (VOLUMETRIC CONTROL VALVE)
Connector Type	FEA02FO



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

Connector No.	F107
Connector Name	HIGH PRESSURE SUPPLY PUMP (PRESSURE CONTROL VALVE)
Connector Type	FEA02FW



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

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

Terminal No.	Color of Wire	Signal Name [Specification]
5	G	–[With M9R engine]
11	L/R	–[With gasoline engine]
12	G	–
14	G	–[With M9R engine]

Connector No.	F132
Connector Name	ECM
Connector Type	MAA40FBR-MEA8-RH

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

Connector No.	F138
Connector Name	CAMSHAFT POSITION SENSOR
Connector Type	FCI-211PC032S0049



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

JCMWA0711GE

BATTERY POWER SUPPLY FUSE NO.52

Connector No.	F141
Connector Name	AIR FUEL RATIO SENSOR
Connector Type	BOSCH 1928404669

H.S.



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

Connector No.	F143
Connector Name	FUEL PUMP
Connector Type	BOSCH 1928404072

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	(+)

Connector No.	F149
Connector Name	FUEL RAIL PRESSURE CONTROL VALVE
Connector Type	BOSCH 1928404072

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	(+)

Connector No.	F151
Connector Name	EGR COOLER BYPASS VALVE CONTROL SOLENOID VALVE
Connector Type	BS02FB-AHY-S

H.S.

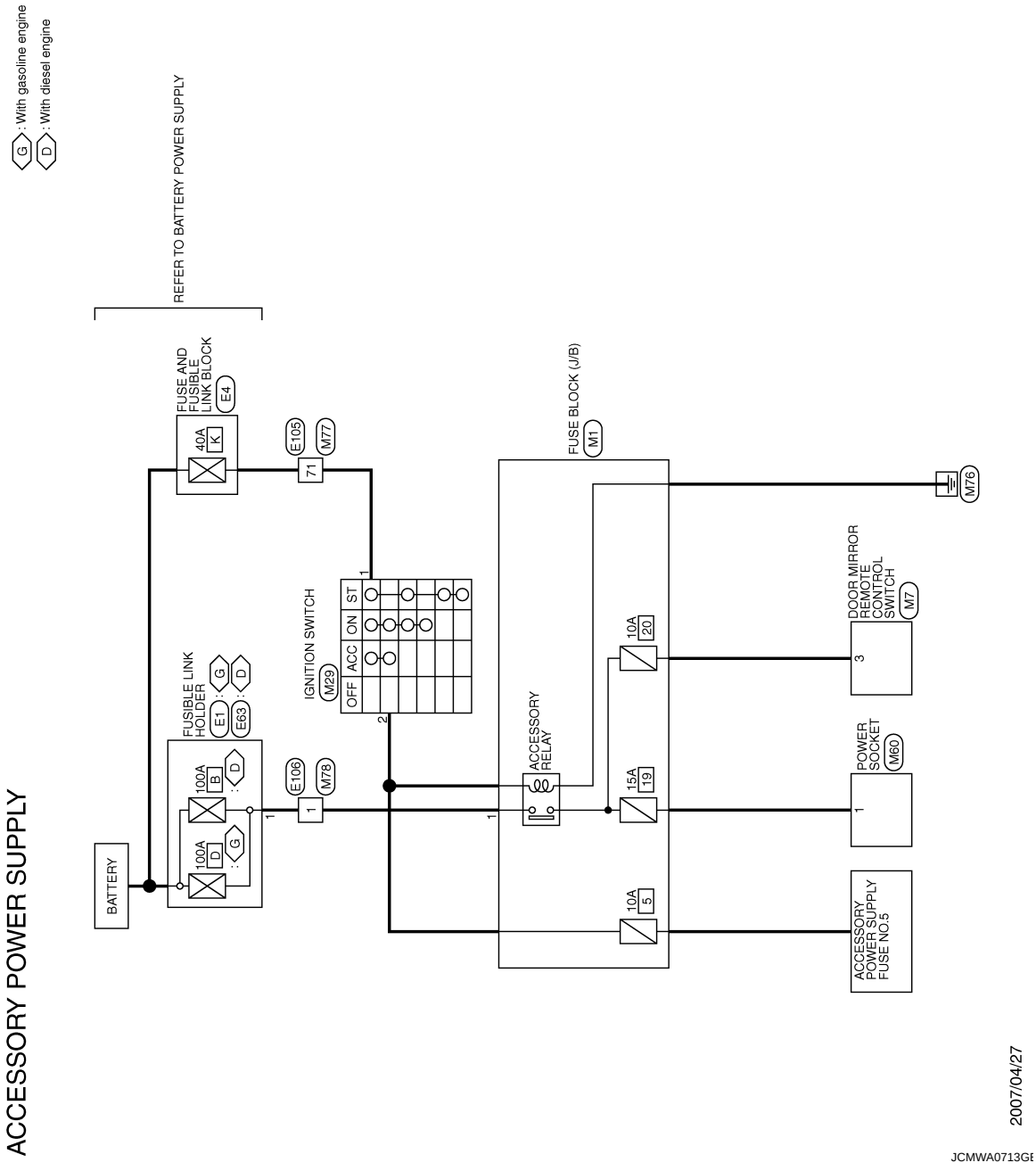


Terminal No.	Color of Wire	Signal Name [Specification]
1	G	(-)

JCMWA0712GE

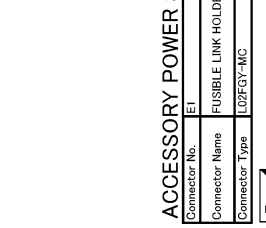
Wiring Diagram - ACCESSORY POWER SUPPLY -

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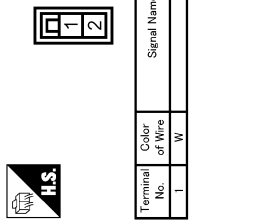
ACCESSORY POWER SUPPLY

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



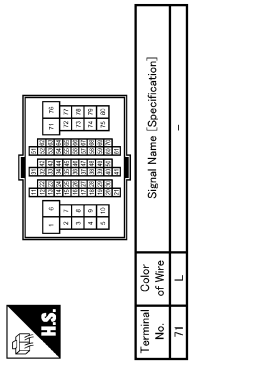
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

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



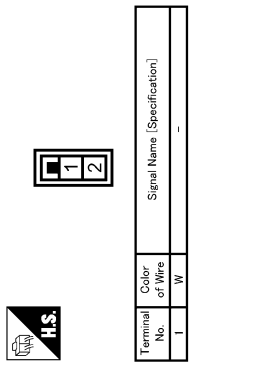
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



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

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC



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

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

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

Connector No.	M7
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	NS10FW-CS

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

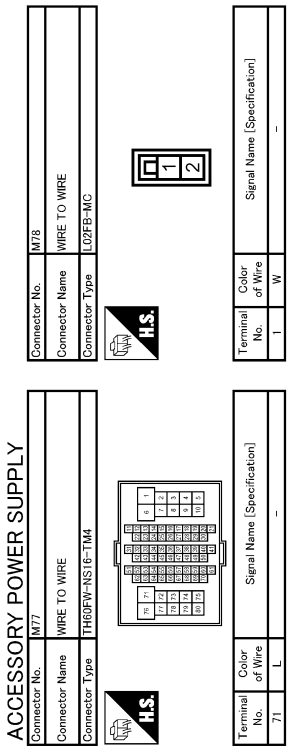
Connector No.	M29
Connector Name	IGNITION SWITCH
Connector Type	M06FW-LC

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

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

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

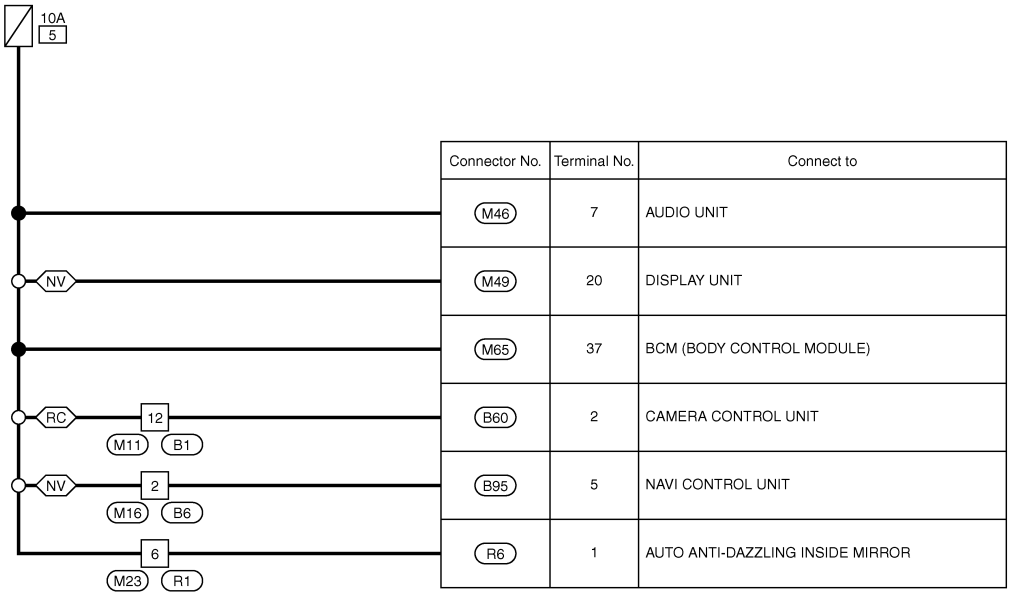
JCMWA0714GE



JCMWA0715GB

ACCESSORY POWER SUPPLY FUSE NO.5

NV : With navigation system
RC : With rear view camera



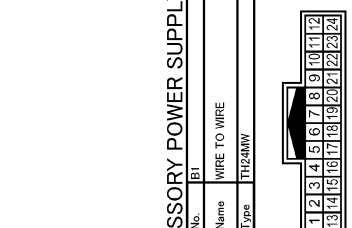
Connector No.	Terminal No.	Connect to
M46	7	AUDIO UNIT
M49	20	DISPLAY UNIT
M65	37	BCM (BODY CONTROL MODULE)
B60	2	CAMERA CONTROL UNIT
B95	5	NAVI CONTROL UNIT
R6	1	AUTO ANTI-DAZZLING INSIDE MIRROR

2006/12/08

JCMWA0464GE

ACCESSORY POWER SUPPLY FUSE NO.5

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	TH24MW



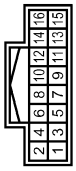
Terminal No.	Color of Wire	Signal Name [Specification]
12	R	–

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	TH12MW



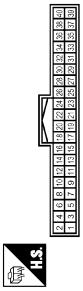
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	–

Connector No.	B60
Connector Name	CAMERA CONTROL UNIT
Connector Type	TH16FW



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

Connector No.	B95
Connector Name	NAVI CONTROL UNIT
Connector Type	TH40FW



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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH24FW

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

Connector No.	M16
Connector Name	WIRE TO WIRE
Connector Type	TH12FW

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

Connector No.	M23
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8

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

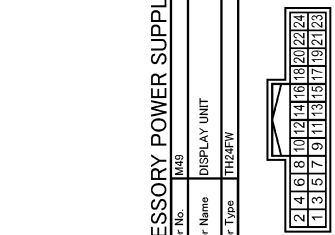
Connector No.	M46
Connector Name	AUDIO UNIT
Connector Type	TH18FW-CS2

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

JCMWA0465GE

ACCESSORY POWER SUPPLY FUSE NO.5

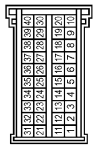
Connector No.	M49
Connector Name	DISPLAY UNIT
Connector Type	TH24FW



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

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





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

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



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

Connector No.	R6
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	GINCH 49908228



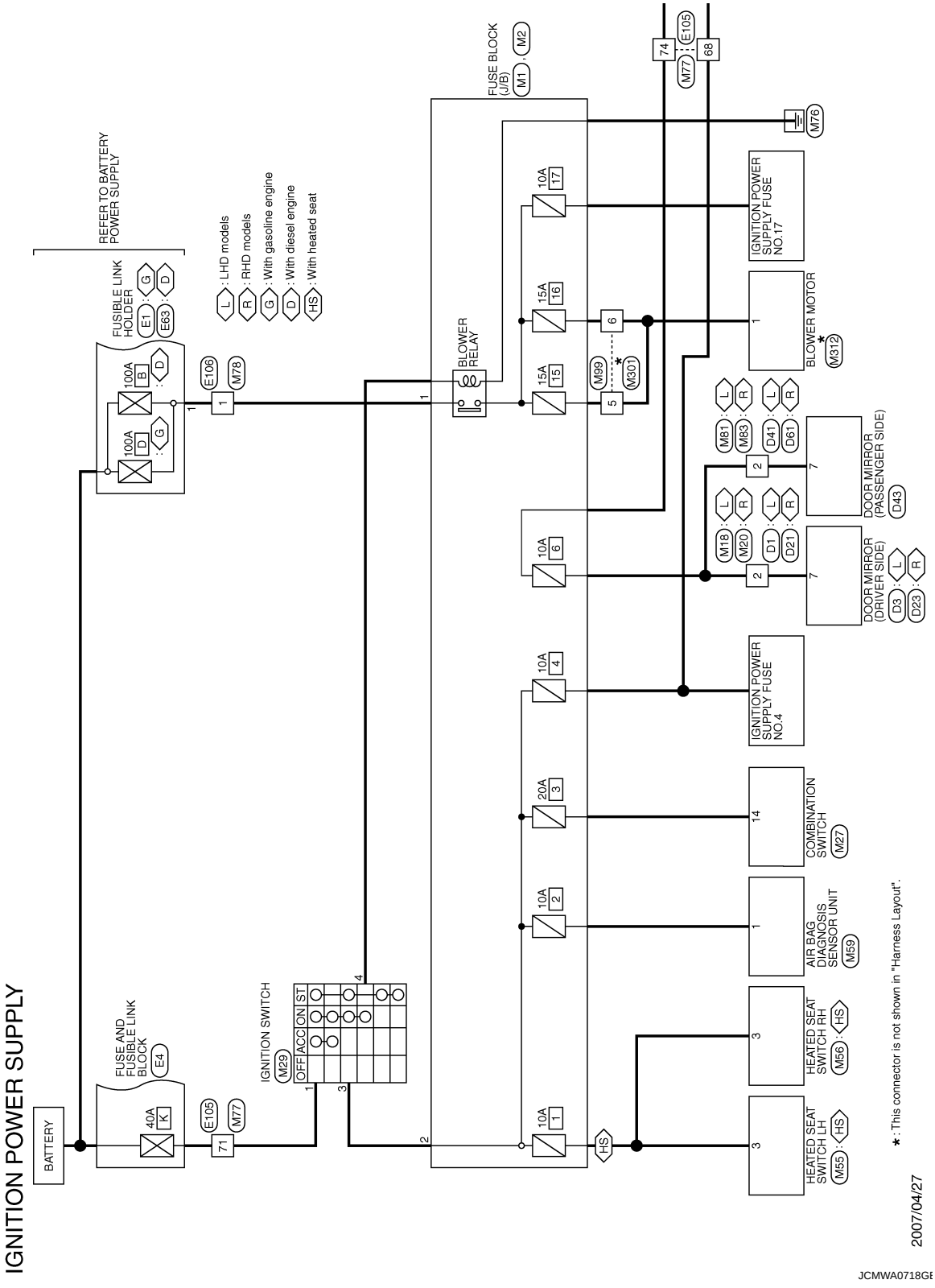


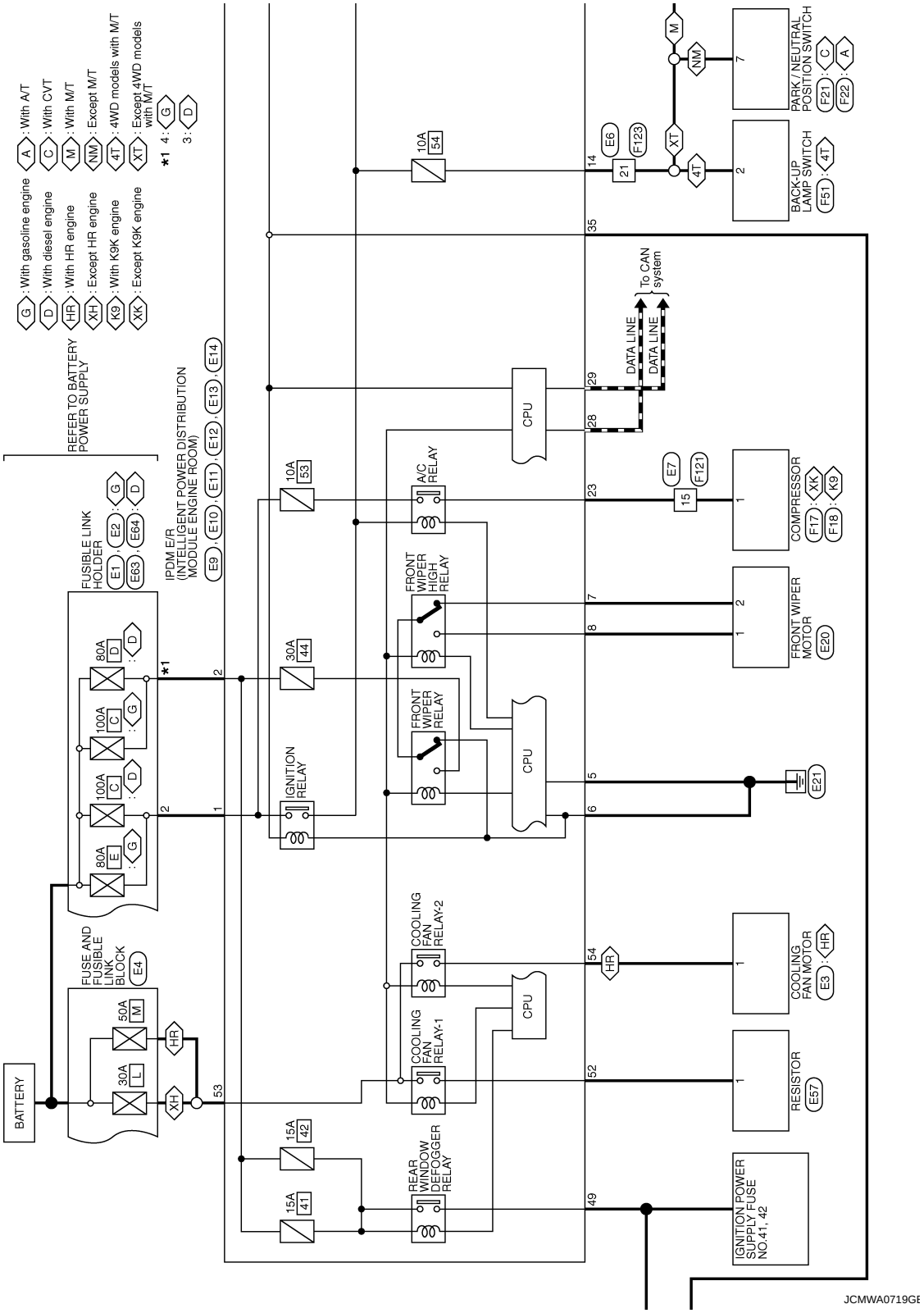
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	–

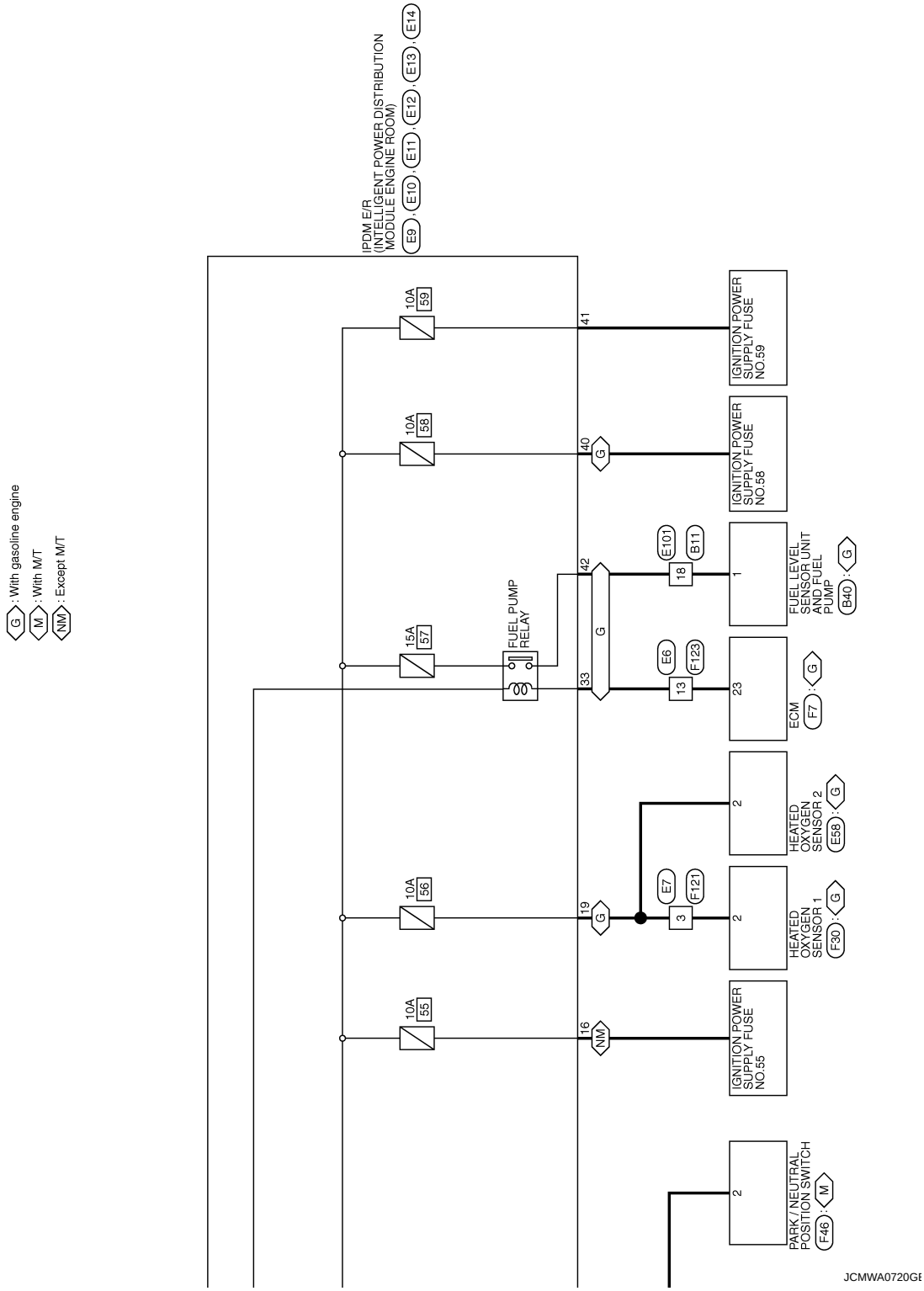
JCMWA0466GE

Wiring Diagram - IGNITION POWER SUPPLY -

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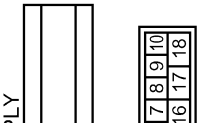

G : With gasoline engine
D : With diesel engine
HR : With HR engine
XH : Except HR engine
K9 : With K9K engine
XK : Except K9K engine
A : With A/T
C : With CVT
M : With M/T
NM : Except M/T
4T : 4WD models with M/T
XT : Except 4WD models with M/T
*1 4 : G
3 : D
REFER TO BATTERY POWER SUPPLY
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9 , E10 , E11 , E12 , E13 , E14
FUSIBLE LINK HOLDER
E1 , E2 , E63 , E64
FUSE AND FUSIBLE LINK BLOCK E4
BATTERY
80A D
100A C
100A C
80A E
50A M
30A L
10A 53
30A 44
IGNITION RELAY
A/C RELAY
FRONT WIPER HIGH RELAY
FRONT WIPER RELAY
COOLING FAN RELAY-2
COOLING FAN RELAY-1
REAR WINDOW DEFOGGER RELAY
15A 42
15A 41
10A 54
CPU
DATA LINE
To CAN system
BACK-UP LAMP SWITCH F51 4T
PARK/ NEUTRAL POSITION SWITCH F21 C F22 A
COMPRESSOR E7 F121 F17 XK F18 K9
FRONT WIPER MOTOR E20
COOLING FAN MOTOR E3 HR
RESISTOR E57
IGNITION POWER SUPPLY FUSE NO.41, 42
E21
JCMWA0719GE


G : With gasoline engine
M : With M/T
NM : Except M/T
IPDM E/R
(INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
E9 , E10 , E11 , E12 , E13 , E14
10A 59
10A 58
15A 57
10A 56
10A 55
FUEL PUMP RELAY
41
40
42
33
19
16
G
NM
IGNITION POWER SUPPLY FUSE NO.59
IGNITION POWER SUPPLY FUSE NO.58
IGNITION POWER SUPPLY FUSE NO.55
E101
B11
18
1
FUEL LEVEL SENSOR UNIT AND FUEL PUMP
B40 : G
E6
F123
13
23
ECM
F7 : G
E7
F121
3
HEATED OXYGEN SENSOR 2
E58 : G
HEATED OXYGEN SENSOR 1
F30 : G
PARK / NEUTRAL POSITION SWITCH
F46 : M
JCMWA0720GB

IGNITION POWER SUPPLY

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
18	B/Y	–

Connector No.	B40
Connector Name	FUEL LEVEL SENSOR UNIT AND FUEL PUMP
Connector Type	E04FGY-RS

H.S.



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

Connector No.	D1
Connector Name	WIRE TO WIRE
Connector Type	TK16FW

H.S.



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

Connector No.	D3
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TK08MGY

H.S.



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

Connector No.	D21
Connector Name	WIRE TO WIRE
Connector Type	TK16FW

H.S.



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

Connector No.	D23
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TK08MGY

H.S.

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

Connector No.	D41
Connector Name	WIRE TO WIRE
Connector Type	TK16FW

H.S.

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

Connector No.	D43
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TK08MGY

H.S.

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

JCMWA0721GE

IGNITION POWER SUPPLY

Connector No.	D61
Connector Name	WIRE TO WIRE
Connector Type	TK16FW

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

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



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

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



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

Connector No.	E3
Connector Name	COOLING FAN MOTOR
Connector Type	P80103895160Z



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

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

Terminal No.	Color of Wire	Signal Name [Specification]
13	B/O	–
21	R/B	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
3	Y/R	–
15	Y/B	–

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

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

Connector No.	E10
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	M06FB-LC

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

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IGNITION POWER SUPPLY

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS

Terminal No.	Color of Wire	Signal Name [Specification]
14	R/B	–
16	Y/R	–
19	R/O	–

Connector No.	E12
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
23	Y/B	–
28	L	–
29	P	–

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS

Terminal No.	Color of Wire	Signal Name [Specification]
33	B/O	–
35	W/L	–
40	SB	–[With MR engine]
40	BR/Y	–[With HR engine]
41	P	–
42	B/Y	–

Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	YZK 7283-5591-40-F

Terminal No.	Color of Wire	Signal Name [Specification]
49	B	–[Except M9R engine]
49	G	–[With M9R engine]
52	W	–
53	W/B	–
54	R	–

Connector No.	E20
Connector Name	FRONT WIPER MOTOR
Connector Type	AMP 953800-1

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

Connector No.	E57
Connector Name	RESISTOR
Connector Type	P8010389516O2

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

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

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

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

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

JCMWA0723GE

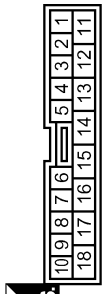
IGNITION POWER SUPPLY

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



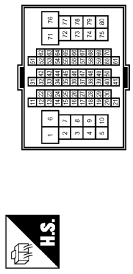
Terminal No.	Color of Wire	Signal Name [Specification]
3	W	–

Connector No.	E101
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
18	B/Y	–

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
68	W/L	–[Except M9R engine]
68	W	–[With M9R engine]
71	L	–
74	G	–

Connector No.	E106
Connector Name	WIRE TO WIRE
Connector Type	L02MB-MC



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

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

Terminal No.	Color of Wire	Signal Name [Specification]
23	B/O	FPR

Connector No.	F17
Connector Name	COMPRESSOR
Connector Type	RH02FB

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

Connector No.	F18
Connector Name	COMPRESSOR
Connector Type	DELPHI:12162017

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

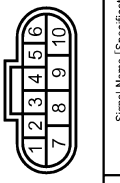
Connector No.	F21
Connector Name	PARK/NEUTRAL POSITION SWITCH
Connector Type	RK08FG

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

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IGNITION POWER SUPPLY

Connector No.	F22
Connector Name	PARK/NEUTRAL POSITION SWITCH
Connector Type	YDX06FB-HS4



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

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



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

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



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

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



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

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

Terminal No.	Color of Wire	Signal Name [Specification]
3	Y/R	–
15	Y/B	–

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

Terminal No.	Color of Wire	Signal Name [Specification]
13	B/O	–
21	R/B	–

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

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

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

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

JCMWA0725GB

IGNITION POWER SUPPLY

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	TK16MW

H.S.



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

Connector No.	M55
Connector Name	HEATED SEAT SWITCH LH
Connector Type	MOLEX 98172-1005 (BROWN)

H.S.

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

Connector No.	M20
Connector Name	WIRE TO WIRE
Connector Type	TK16MW

H.S.



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

Connector No.	M56
Connector Name	HEATED SEAT SWITCH RH
Connector Type	MOLEX 98172-1002 (BLACK)

H.S.

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

Connector No.	M27
Connector Name	COMBINATION SWITCH
Connector Type	TK16FW

H.S.



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

Connector No.	M59
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	TK28FY-EX-SC

H.S.

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

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

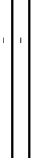
H.S.



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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
68	W	–
71	L	–
74	R	–

JCMWA0726GB

IGNITION POWER SUPPLY

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC

H.S.



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

Connector No.	M81
Connector Name	WIRE TO WIRE
Connector Type	TK16MW

H.S.



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

Connector No.	M83
Connector Name	WIRE TO WIRE
Connector Type	TK16MW

H.S.



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

Connector No.	M99
Connector Name	WIRE TO WIRE
Connector Type	M06FW-LC

H.S.



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

Connector No.	M301
Connector Name	WIRE TO WIRE
Connector Type	M06MW-LC

H.S.



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

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

H.S.

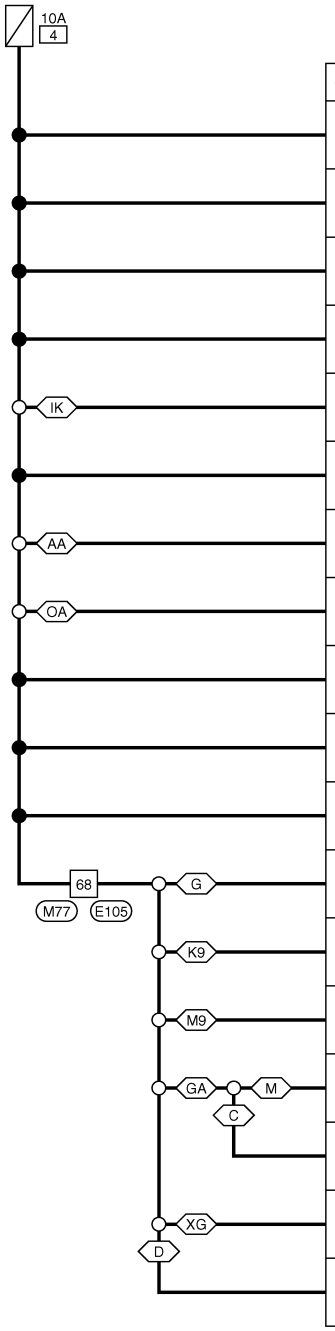


Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	–

JCMWA0727GE

IGNITION POWER SUPPLY FUSE NO.4

G : With gasoline engine
D : With diesel engine
XG : Except gasoline engine M/T models
C : With CVT
M : With M/T
IK : With Intelligent Key
AA : With auto A/C
OA : Without auto A/C
GA : With gasoline engine and ASCD



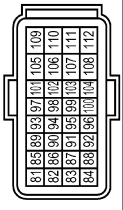
Connector No.	Terminal No.	Connect to
M4	8	DATA LINK CONNECTOR
M33	27	COMBINATION SWITCH (SPIRAL CABLE)
M34	2	COMBINATION METER
M37	10	EPS CONTROL UNIT
M40	6	INTELLIGENT KEY UNIT
M52	4	HIGH-LEVEL VENT SWITCH
M53	40	AUTO AMP.
M54	1	HEATER CONTROL PANEL
M65	38	BCM (BODY CONTROL MODULE)
M73	1	GLOVE BOX LAMP
M91	7	INDICATOR UNIT
E16	93	ECM
E60	109	ECM
E121	109	ECM
E111	1	ASCD CLUTCH SWITCH
E112	1	ASCD BRAKE SWITCH
E115	4	STOP LAMP SWITCH
E118	4	STOP LAMP SWITCH

2007/04/27

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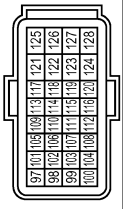
IGNITION POWER SUPPLY FUSE NO.4

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



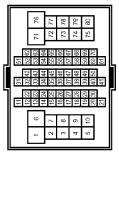
Terminal No.	Color of Wire	Signal Name [Specification]
93	W/L	IGN SW

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



Terminal No.	Color of Wire	Signal Name [Specification]
109	W/L	IGN

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
68	W/L	–[Except M9R engine]
68	W	–[With M9R engine]

Connector No.	E111
Connector Name	ASCD CLUTCH SWITCH
Connector Type	M02FBR-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	W/L	–[With gasoline engine]

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W/L	–[With CVT]

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

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

Connector No.	E118
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC



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

Connector No.	E121
Connector Name	ECM
Connector Type	MAA24FB-MEA8-LH



Terminal No.	Color of Wire	Signal Name [Specification]
109	W/L	IGN

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IGNITION POWER SUPPLY FUSE NO.4

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.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FGY-1V

H.S.



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

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	SAB40FW

H.S.



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

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

H.S.



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

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

H.S.

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

Connector No.	M52
Connector Name	HIGH-LEVEL VENT SWITCH
Connector Type	CINCH 49305EV4M5

H.S.

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

Connector No.	M53
Connector Name	A/C AUTO AMP.
Connector Type	SAB40FW

H.S.

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

Connector No.	M54
Connector Name	HEATER CONTROL PANEL
Connector Type	TK20FGY

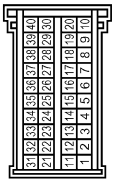
H.S.

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

JCMWA0730GB

IGNITION POWER SUPPLY FUSE NO.4

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



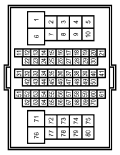
Terminal No.	Color of Wire	Signal Name [Specification]
38	W	IGN SW

Connector No.	M73
Connector Name	GLOVE BOX LAMP
Connector Type	WBS-1006N



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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4



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

Connector No.	M91
Connector Name	INDICATOR UNIT
Connector Type	TH08FW-1V

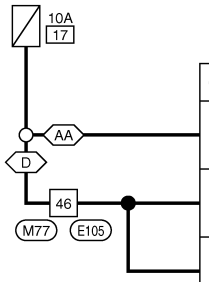


Terminal No.	Color of Wire	Signal Name [Specification]
7	W/L	–

JCMWA0731GE

IGNITION POWER SUPPLY FUSE NO.17

D : With diesel engine
AA : With auto A/C



Connector No.	Terminal No.	Connect to
M53	18	AUTO AMP.
E53	1	PTC RELAY-1
E54	1	PTC RELAY-2

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IGNITION POWER SUPPLY FUSE NO.17

Connector No.	E53
Connector Name	PTC RELAY-1
Connector Type	24347 9F900

H.S.



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

Connector No.	E54
Connector Name	PTC RELAY-2
Connector Type	24347 9F900

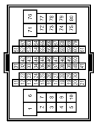
H.S.



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4

H.S.



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

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

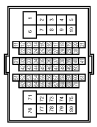
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
18	Y	IGN-2

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4

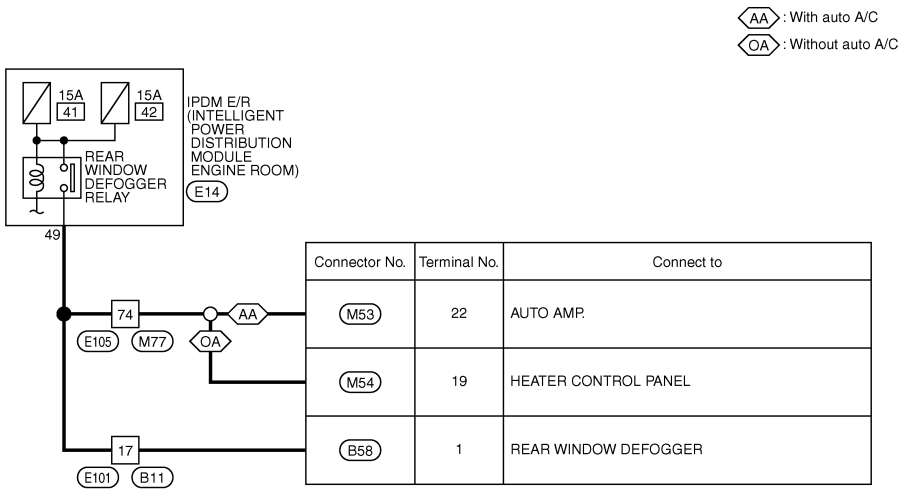
H.S.



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

JCMWA0482GE

IGNITION POWER SUPPLY FUSE NO.41,42



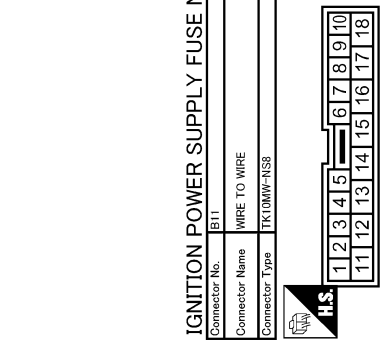
Connector No.	Terminal No.	Connect to
M53	22	AUTO AMP.
M54	19	HEATER CONTROL PANEL
B58	1	REAR WINDOW DEFOGGER

2006/12/08

JCMWA0483GE

IGNITION POWER SUPPLY FUSE NO.41,42

Connector No.	B11
Connector Name	WIRE TO WIRE
Connector Type	TK10MW-NS8



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

Connector No.	B58
Connector Name	REAR WINDOW DEFOGGER
Connector Type	P01FB-A

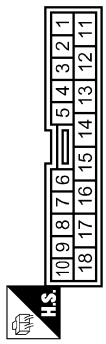
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	–

Connector No.	E14
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	YZK 7283-5591-40-F



Terminal No.	Color of Wire	Signal Name [Specification]
49	B	–[Except M9R engine]
49	G	–[With M9R engine]

Connector No.	E101
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4

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

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

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

Connector No.	M54
Connector Name	HEATER CONTROL PANEL
Connector Type	TK20FGY

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

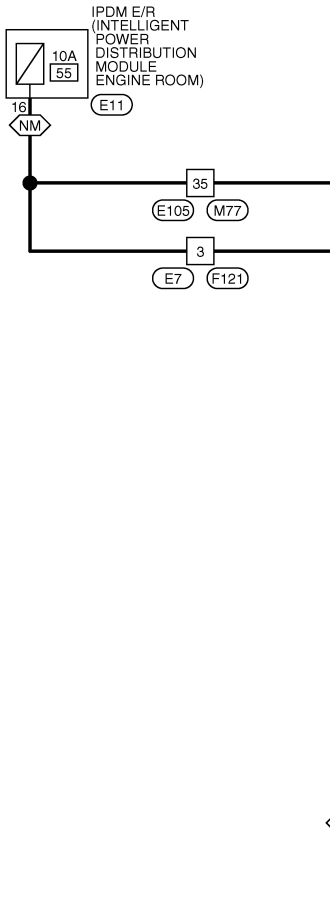
Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4

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

JCMWA0733GE

IGNITION POWER SUPPLY FUSE NO.55

A : With A/T
C : With CVT
NM : Except M/T



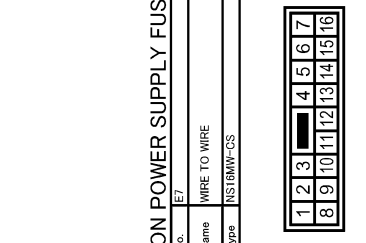
Connector No.	Terminal No.	Connect to
M57	3	CONTROL DEVICE
F19	3	SECONDARY SPEED SENSOR
F21	5	PARK / NEUTRAL POSITION SWITCH
F22	3	PARK / NEUTRAL POSITION SWITCH
F23	46	TCM (TRANSMISSION CONTROL MODULE)
F23	48	TCM (TRANSMISSION CONTROL MODULE)
F25	46	TCM (TRANSMISSION CONTROL MODULE)
F25	48	TCM (TRANSMISSION CONTROL MODULE)
F54	3	TURBINE REVOLUTION SENSOR
F55	3	PRIMARY SPEED SENSOR
F57	1	VEHICLE SPEED SENSOR A/T

2007/04/27

JCMWA0734GE

IGNITION POWER SUPPLY FUSE NO.55

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



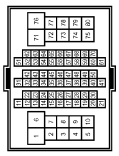
Terminal No.	Color of Wire	Signal Name [Specification]
3	Y/R	–

Connector No.	E11
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS12FBR-CS



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
35	Y/R	–

Connector No.	F19
Connector Name	SECONDARY SPEED SENSOR
Connector Type	RY03FB



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

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

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

Connector No.	F22
Connector Name	PARK/NEUTRAL POSITION SWITCH
Connector Type	YDX06FB-HS4

Terminal No.	Color of Wire	Signal Name [Specification]
3	Y/R	VIGN

Connector No.	F23
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	MOLEX 500994-4111

Terminal No.	Color of Wire	Signal Name [Specification]
46	Y/R	VIGN
48	Y/R	VIGN

Connector No.	F25
Connector Name	TCM (TRANSMISSION CONTROL MODULE)
Connector Type	MOLEX 500994-4111

Terminal No.	Color of Wire	Signal Name [Specification]
46	Y/R	VIGN
48	Y/R	VIGN

JCMWA0735GE

IGNITION POWER SUPPLY FUSE NO.55

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

H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	Y/R	VIGN

Connector No.	F55
Connector Name	PRIMARY SPEED SENSOR
Connector Type	RV03FB

H.S.



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

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

H.S.



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

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

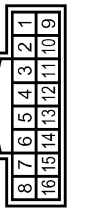
H.S.



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

Connector No.	M57
Connector Name	CONTROL DEVICE
Connector Type	TH16FW

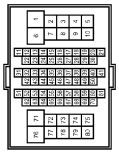
H.S.



Terminal No.	Color of Wire	Signal Name [Specification]
3	Y	SHIFT LOCK SOL/PARK SW

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4

H.S.

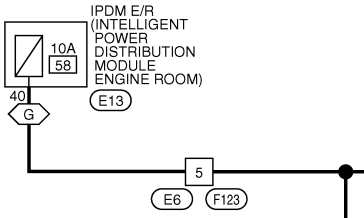


Terminal No.	Color of Wire	Signal Name [Specification]
35	Y	–

JCMWA0736GE

IGNITION POWER SUPPLY FUSE NO.58

G : With gasoline engine



Connector No.	Terminal No.	Connect to
F37	1	FUEL INJECTOR NO.1
F38	1	FUEL INJECTOR NO.2
F39	1	FUEL INJECTOR NO.3
F40	1	FUEL INJECTOR NO.4

2006/12/08

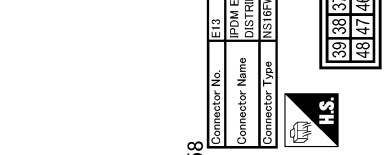
JCMWA0488GE

IGNITION POWER SUPPLY FUSE NO.58

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

Terminal No.	Color of Wire	Signal Name [Specification]
5	SB	– [Except M9R engine]

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
40	SB	– [With MR engine]
40	BR/Y	– [With HR engine]

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



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

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



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

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

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

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

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

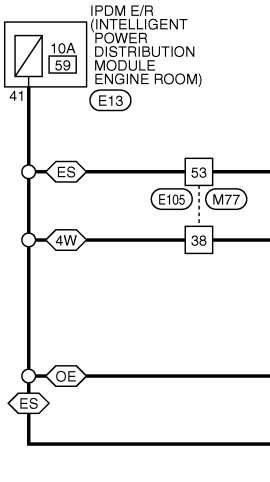
Connector No.	F123
Connector Name	WIRE TO WIRE
Connector Type	TK24FW-1V

Terminal No.	Color of Wire	Signal Name [Specification]
5	SB	– [Except M9R engine]

JCMWA0737GE

IGNITION POWER SUPPLY FUSE NO.59

4W : 4WD models
ES : With ESP
OE : Without ESP



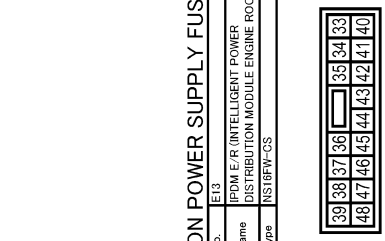
Connector No.	Terminal No.	Connect to
M30	1	STEERING ANGLE SENSOR
M69	7	4WD CONTROL UNIT
M72	4	YAW RATE SENSOR
E34	18	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
E36	18	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)

2006/12/08

JCMWA0490GE

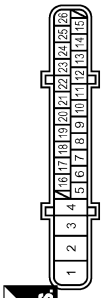
IGNITION POWER SUPPLY FUSE NO.59

Connector No.	E13
Connector Name	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Type	NS16FW-CS



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

Connector No.	E34
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA22FB-AHZ4-LH



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

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

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

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

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

Connector No.	E36
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	BAA22FB-AHZ4-LH

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

Connector No.	M72
Connector Name	YAW RATE SENSOR
Connector Type	AAZ04FB

Terminal No.	Color of Wire	Signal Name [Specification]
4	P	IGN(YRS)

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH60MW-NS16-TM4

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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH60FW-NS16-TM4

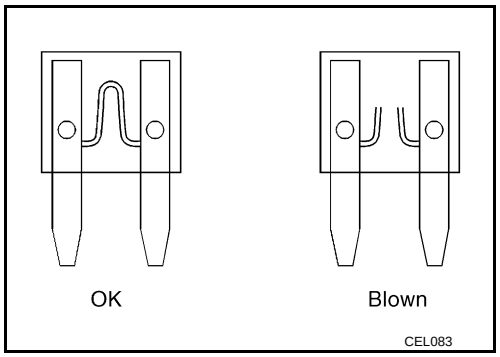
Terminal No.	Color of Wire	Signal Name [Specification]
38	P	–
53	P	–

JCMWA0738GE

Fuse

INFOID:0000000001191228

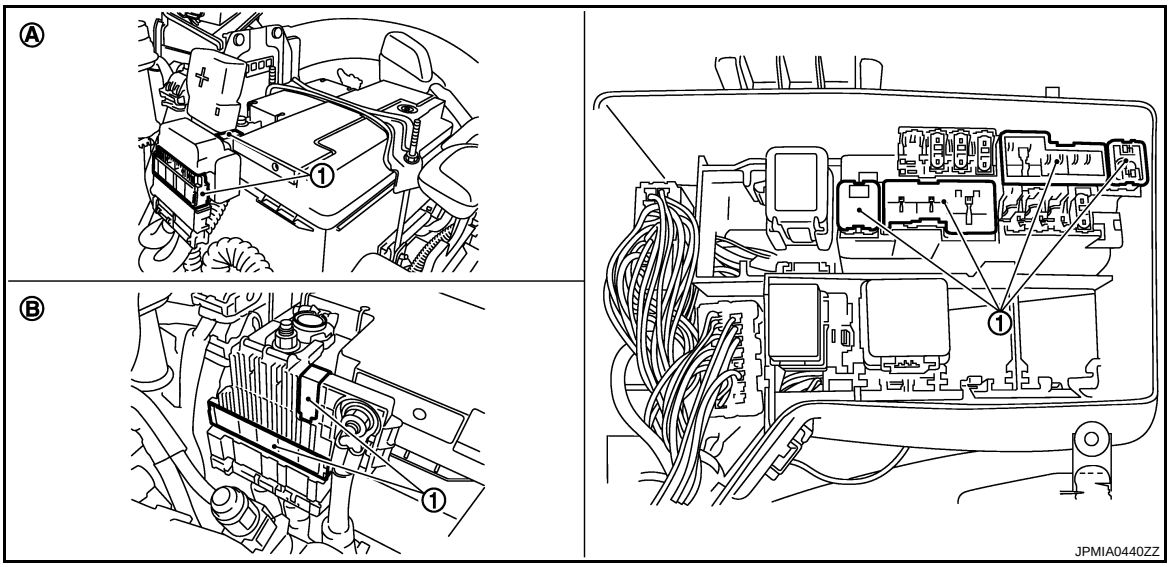
- If fuse is blown, be sure to eliminate cause of malfunction before installing new fuse.
- Use fuse of specified rating. Never use fuse of more than specified rating.
- Do not partially install fuse; always insert it into fuse holder properly.
- Remove fuse for “ELECTRICAL PARTS (BAT)” if vehicle is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



Fusible Link

INFOID:0000000001191229

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

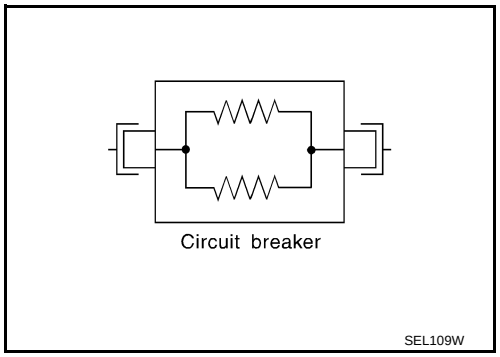
CAUTION:

- **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:0000000001191230

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.



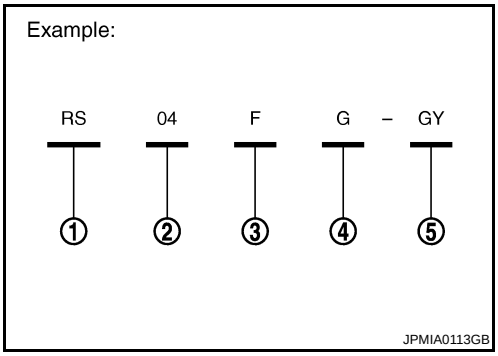
HARNESS LAYOUT

LHD

LHD : How To Read Harness Layout

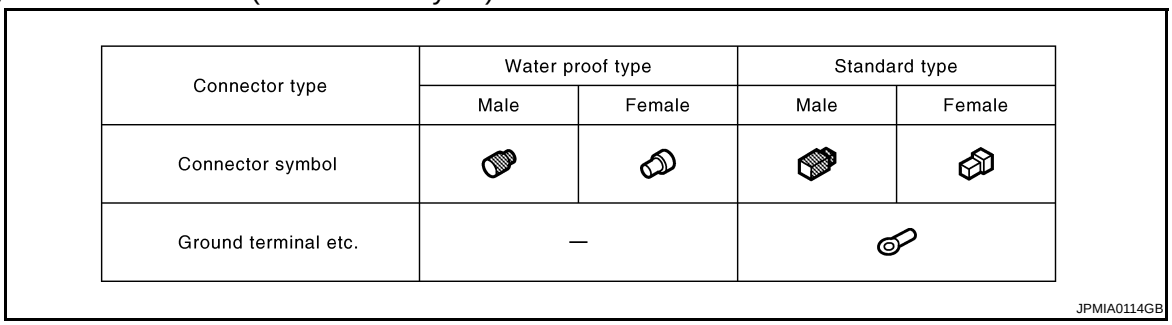
INFOID:0000000001191231

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.

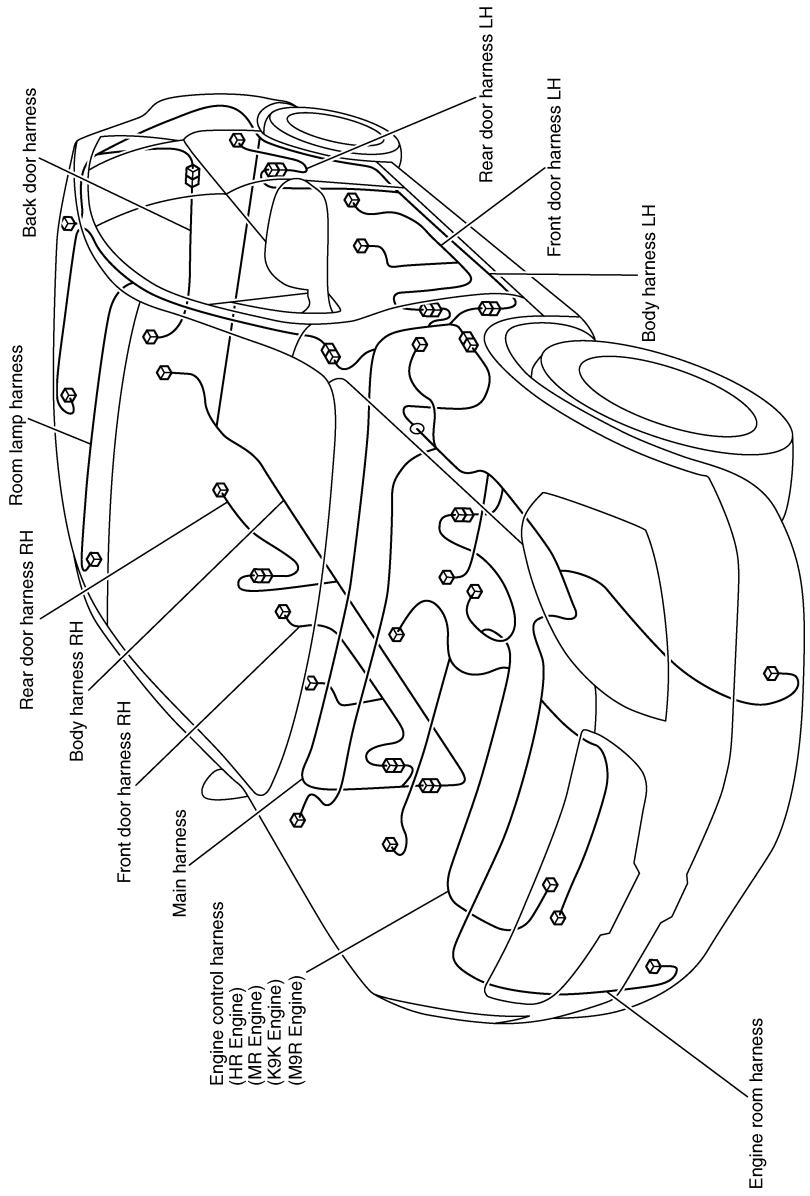


Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
Connector symbol				
Ground terminal etc.	—			

LHD : Outline

INFOID:0000000001191232

Outline (LHD MODELS)

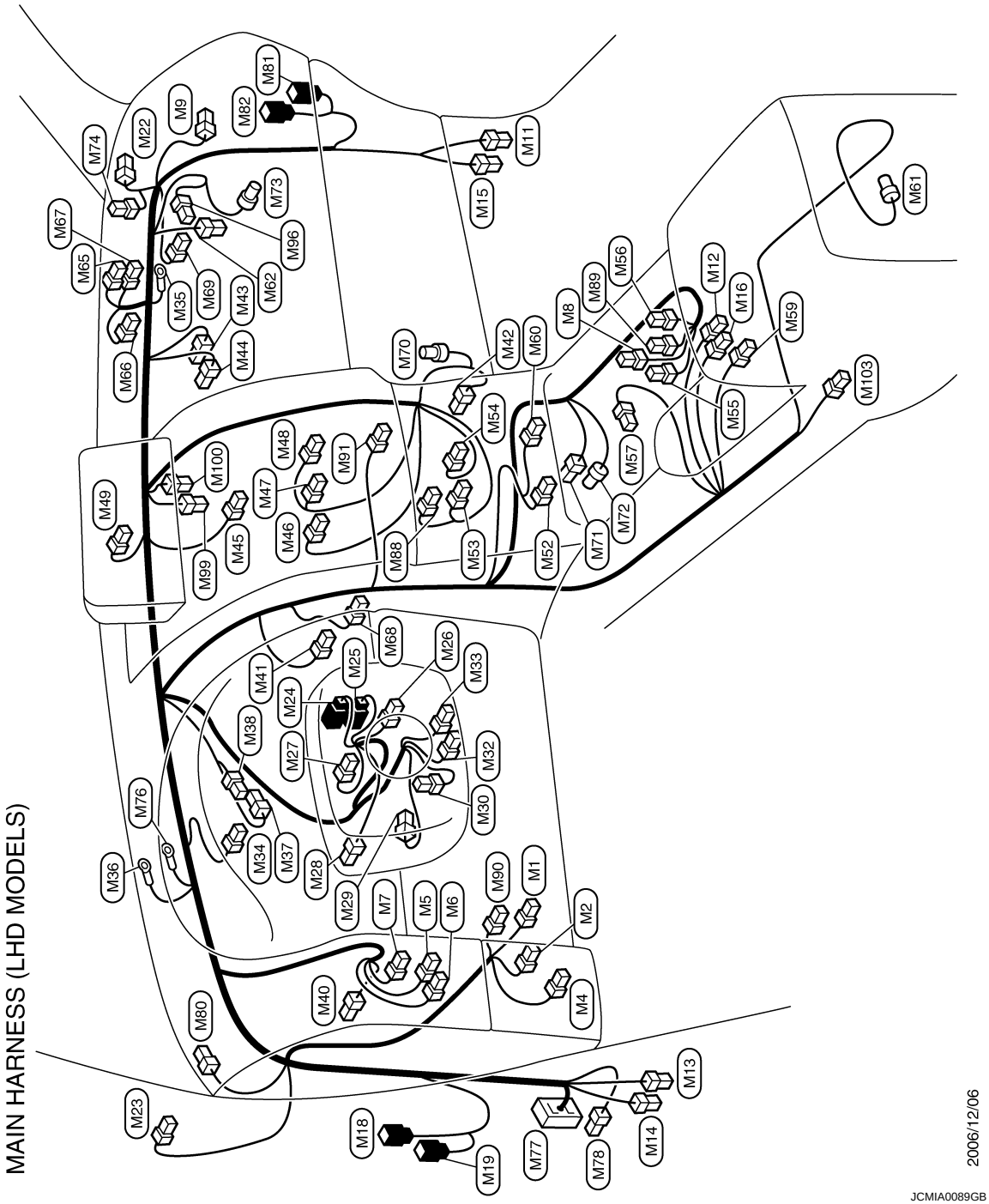


2007/04/27

JCMIA0180GB

LHD : Main Harness

INFOID:0000000001191233

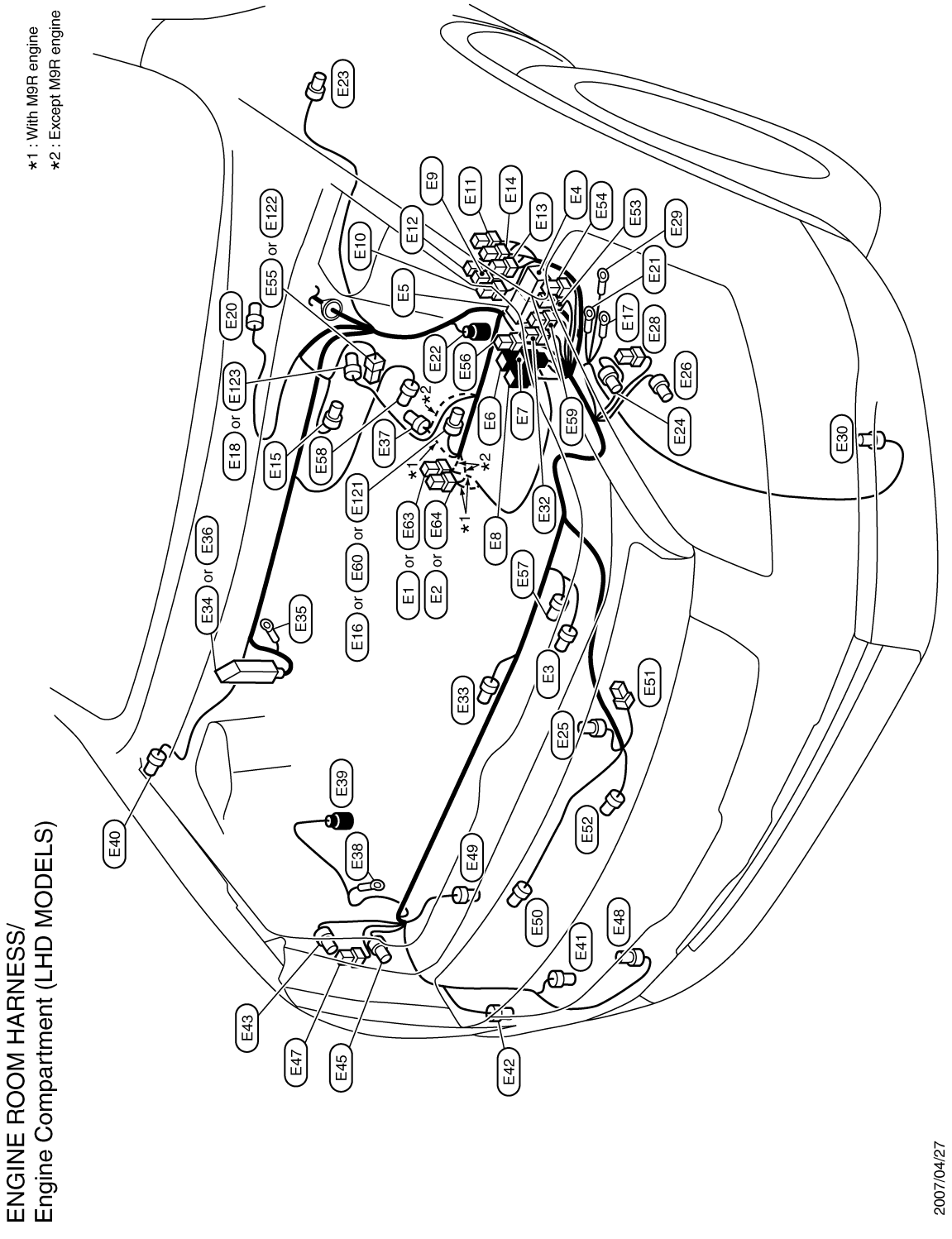


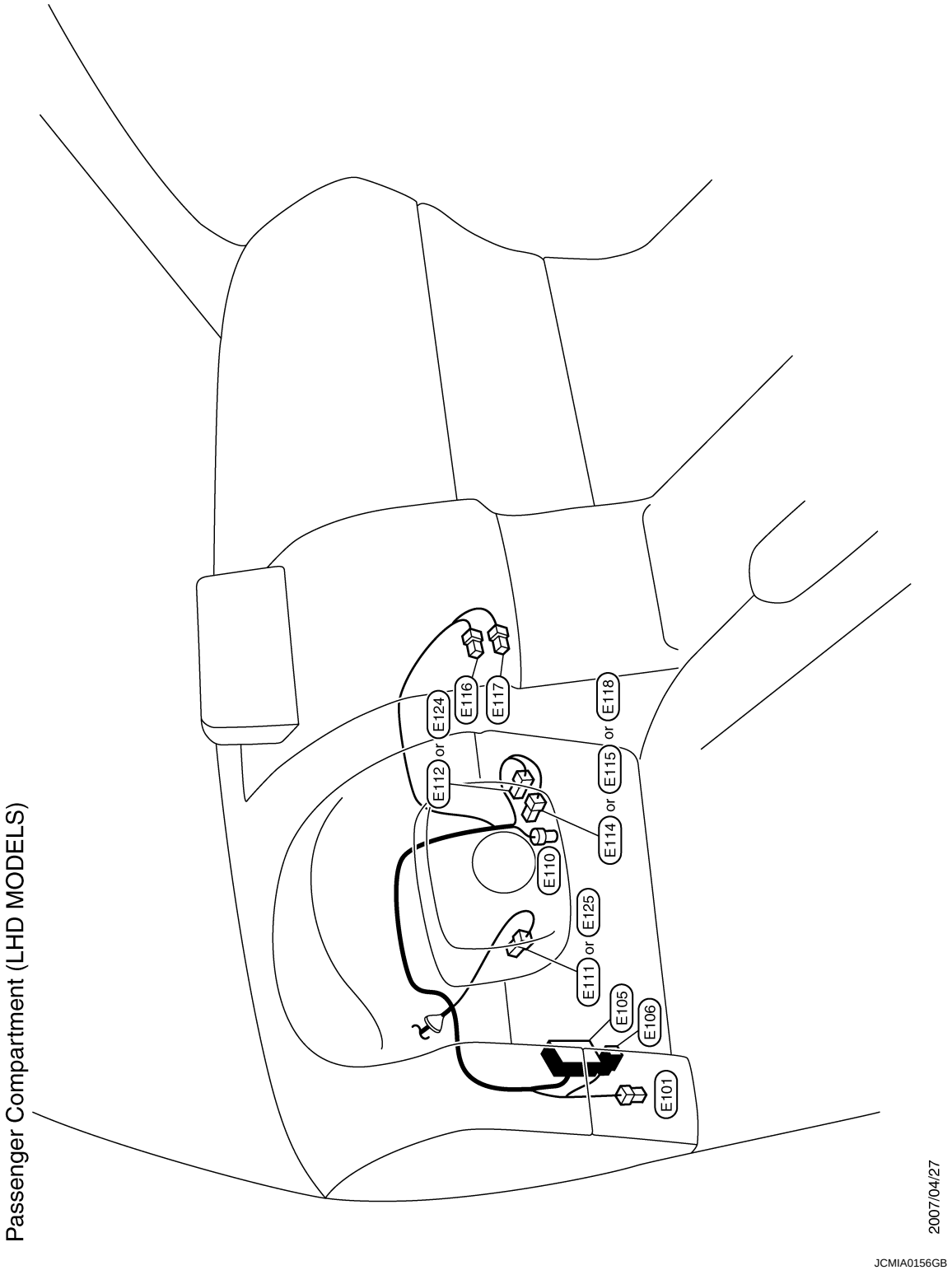
LHD : Engine Room Harness

INFOID:0000000001191234

ENGINE COMPARTMENT

ENGINE ROOM HARNESS/
Engine Compartment (LHD MODELS)

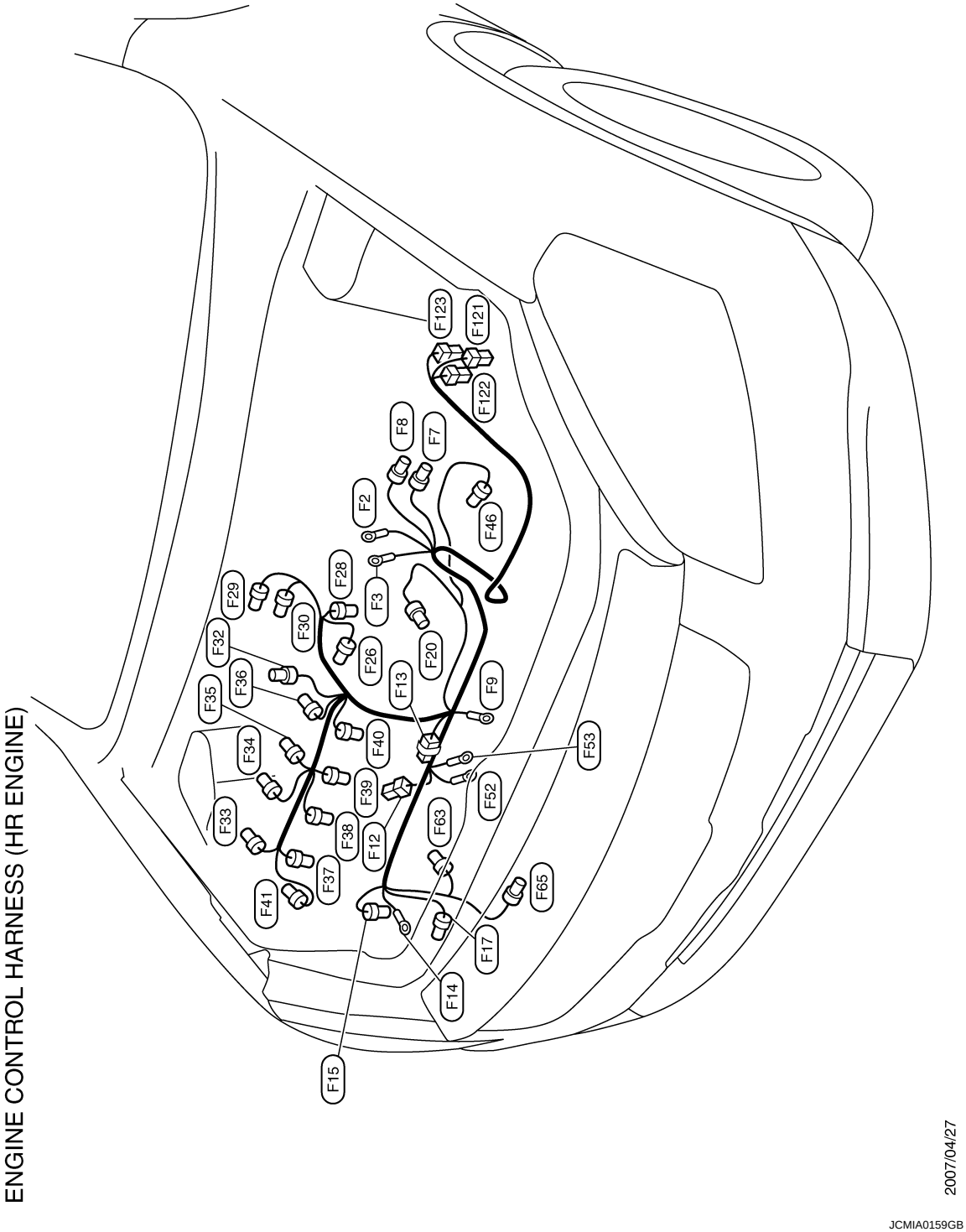


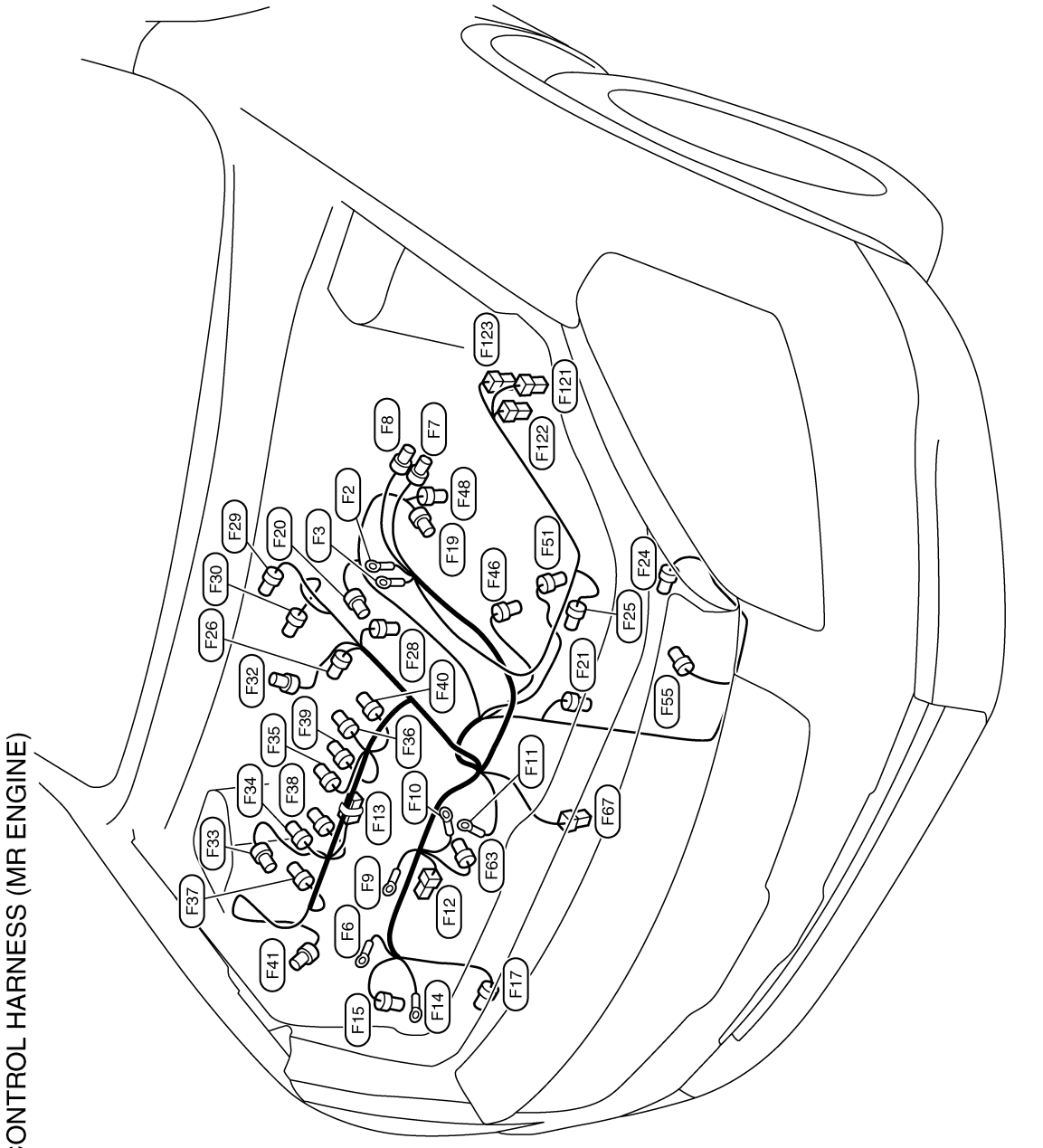

Passenger Compartment (LHD MODELS)
E124
or
E112
E116
E117
E118
or
E115
E114
E110
E125
or
E111
E105
E106
E101
2007/04/27
JCMIA0156GB

LHD : Engine Control Harness

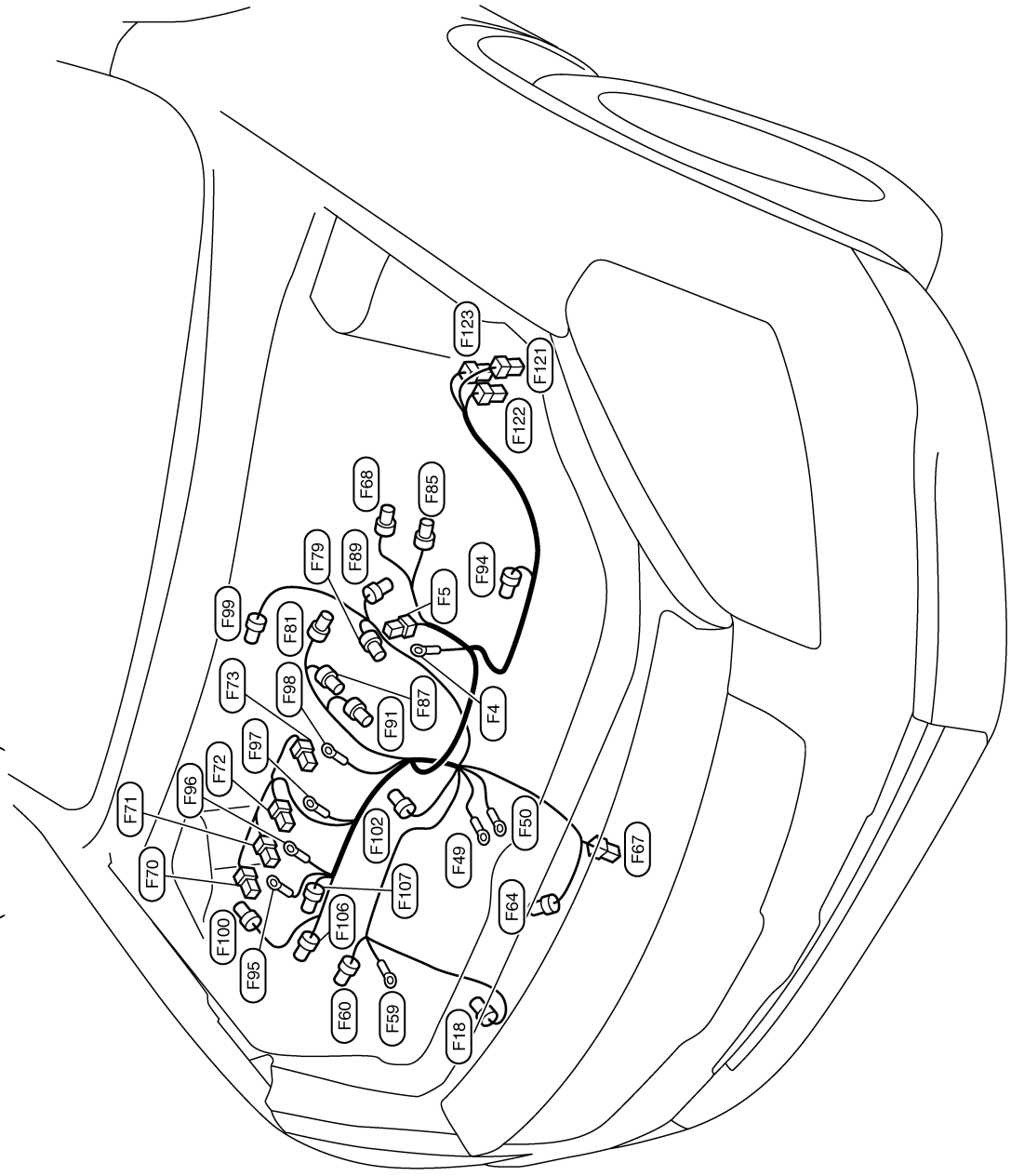
INFOID:0000000001191235

HR ENGINE



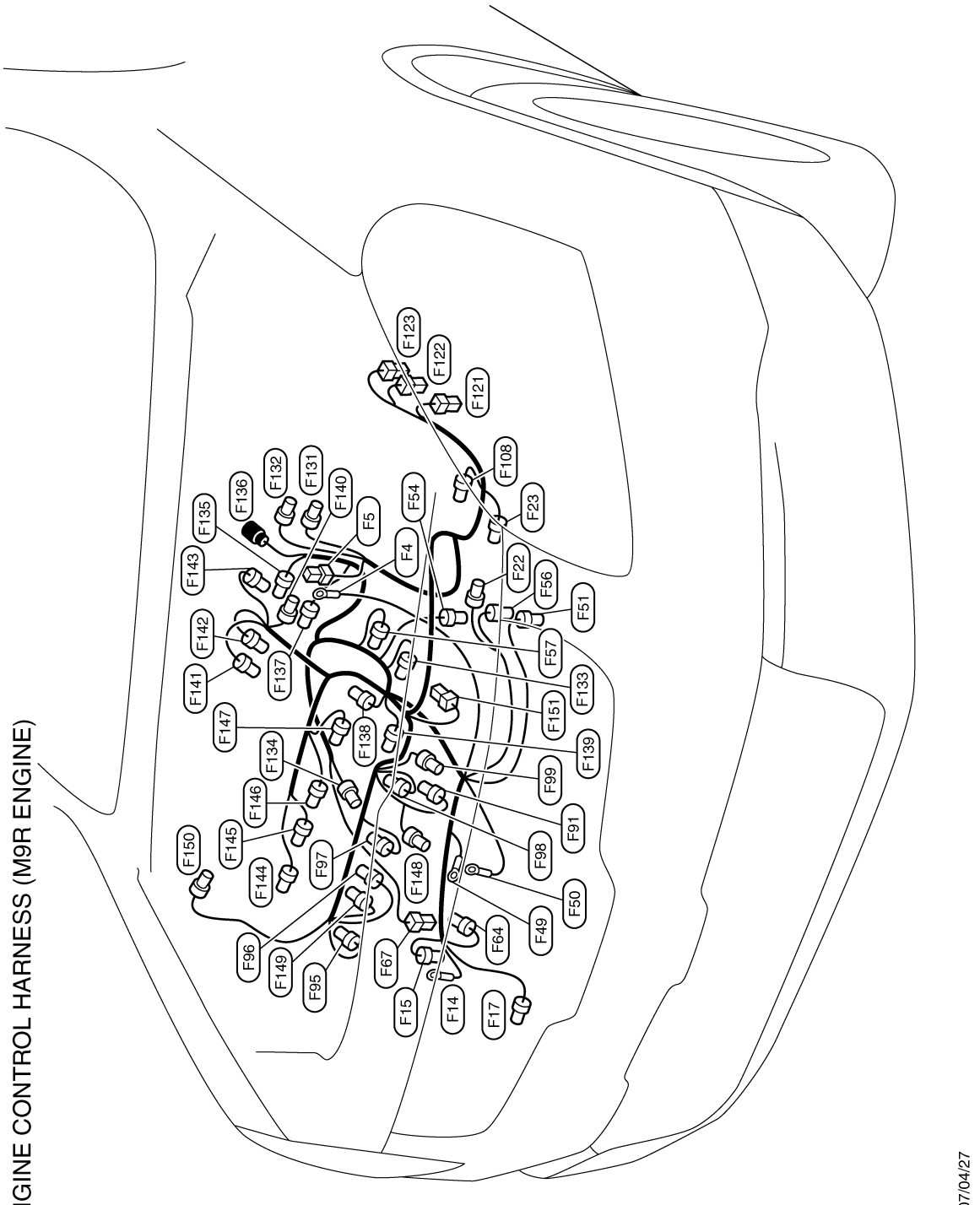

ENGINE CONTROL HARNESS (MR ENGINE)
F123
F121
F122
F8
F7
F2
F48
F29
F20
F3
F19
F51
F24
F30
F46
F25
F26
F28
F21
F32
F40
F55
F39
F35
F36
F11
F34
F38
F10
F67
F13
F33
F63
F9
F37
F12
F6
F41
F17
F14
F15
2007/04/27
JCMIA0160GB

ENGINE CONTROL HARNESS (K9K ENGINE)



2007/04/27

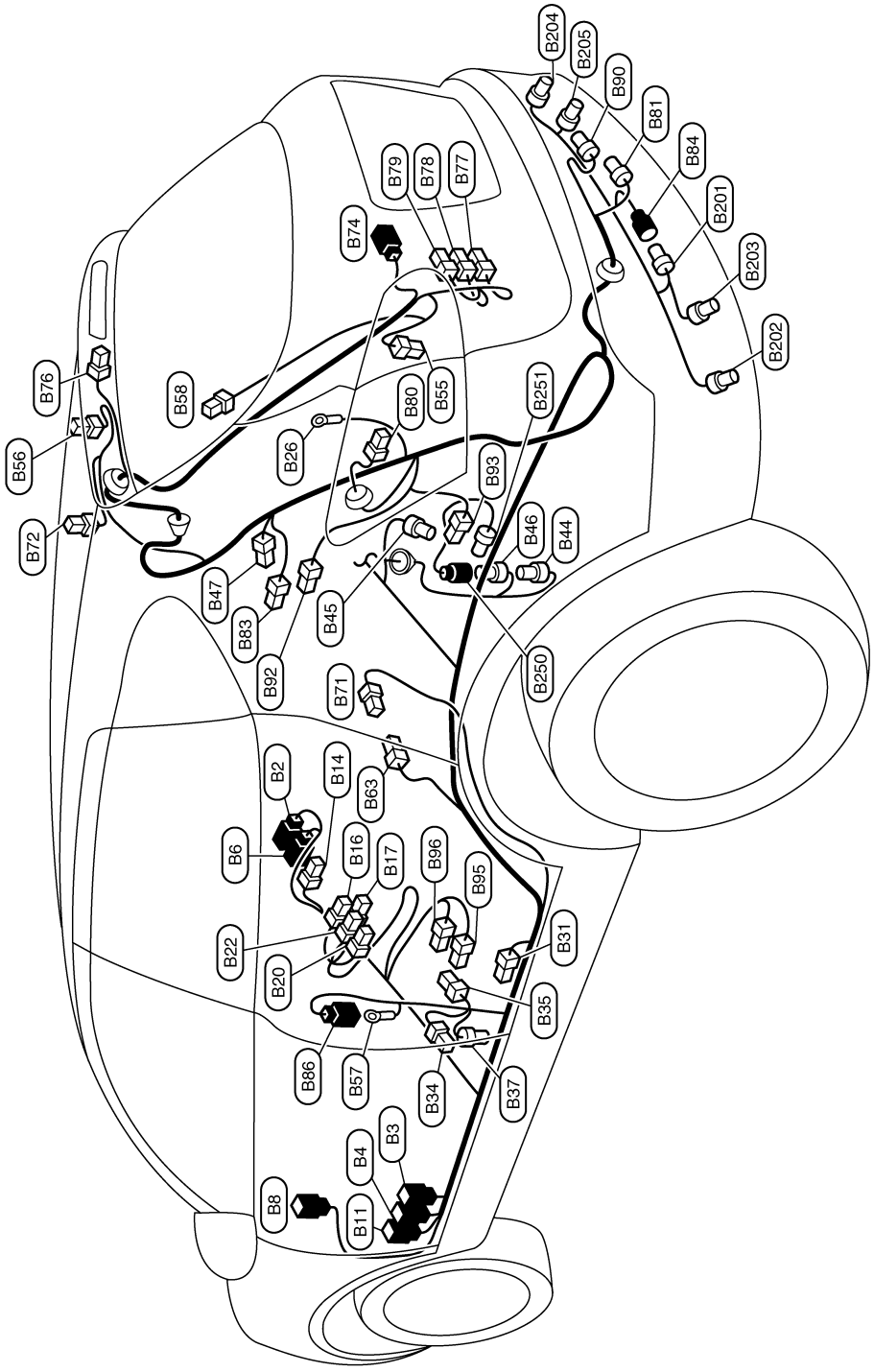
JCMIA0161GB


ENGINE CONTROL HARNESS (M9R ENGINE)
F123
F122
F121
F108
F23
F54
F5
F4
F22
F56
F51
F57
F133
F151
F139
F99
F91
F98
F50
F49
F64
F17
F14
F15
F67
F95
F149
F96
F97
F148
F144
F150
F145
F146
F134
F138
F147
F141
F142
F137
F143
F135
F136
F132
F131
F140
2007/04/27
JCMIA0162GB

LHD : Body Harness

INFOID:0000000001191236

LH SIDE



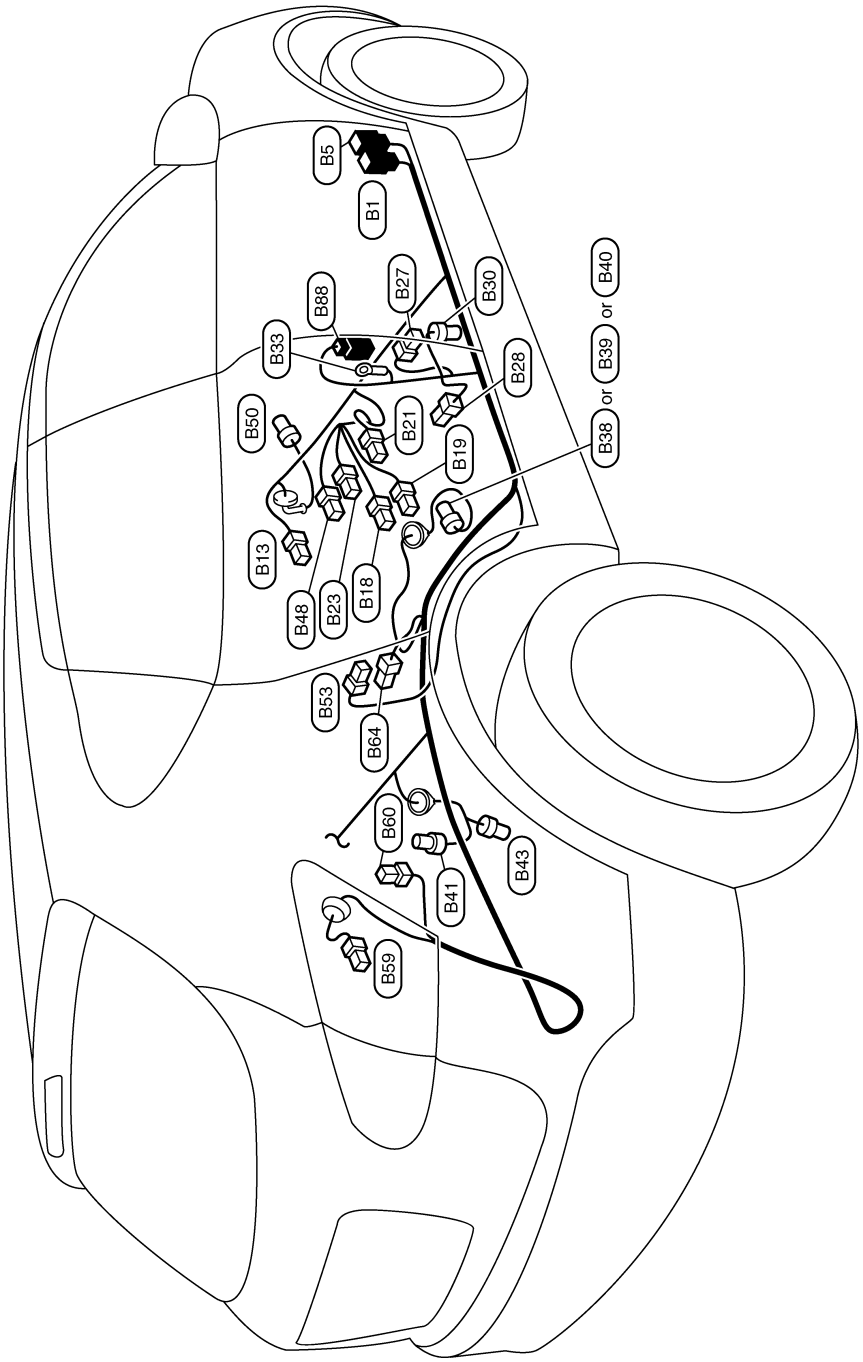
BODY HARNESS LH (LHD MODELS)

2007/04/27

JCMIA0178GB

RH SIDE

BODY HARNESS RH (LHD MODELS)

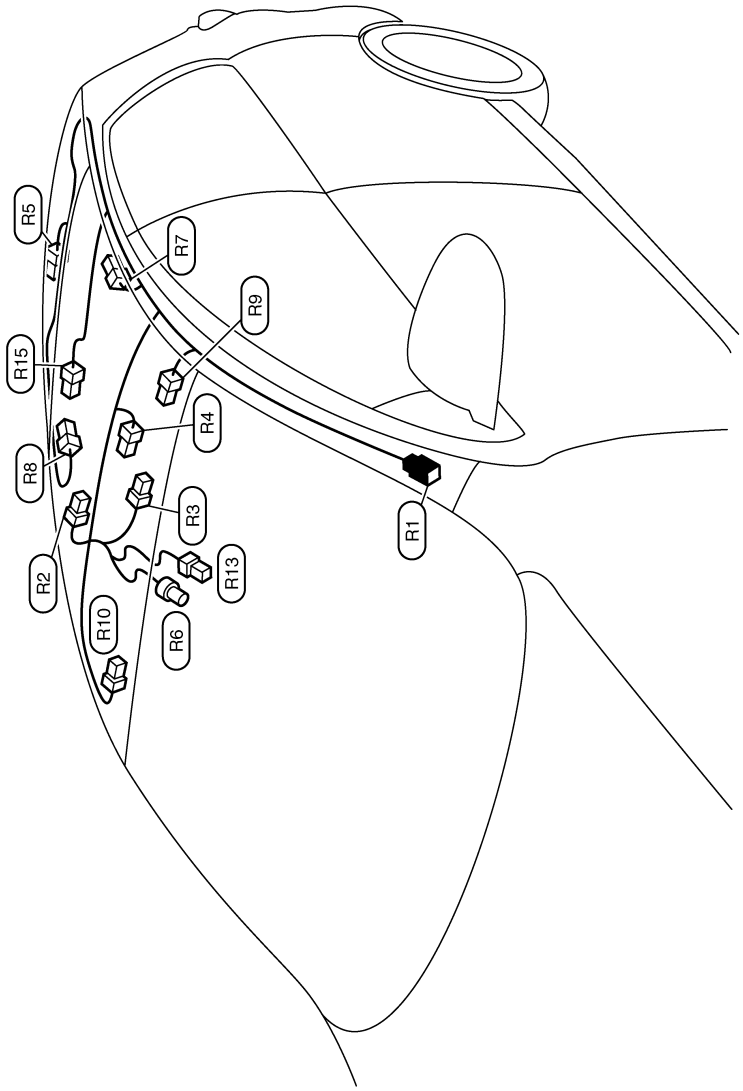


2007/04/27

JCMIA0163GB

LHD : Room Lamp Harness

INFOID:0000000001191237



ROOM LAMP HARNESS (LHD MODELS)

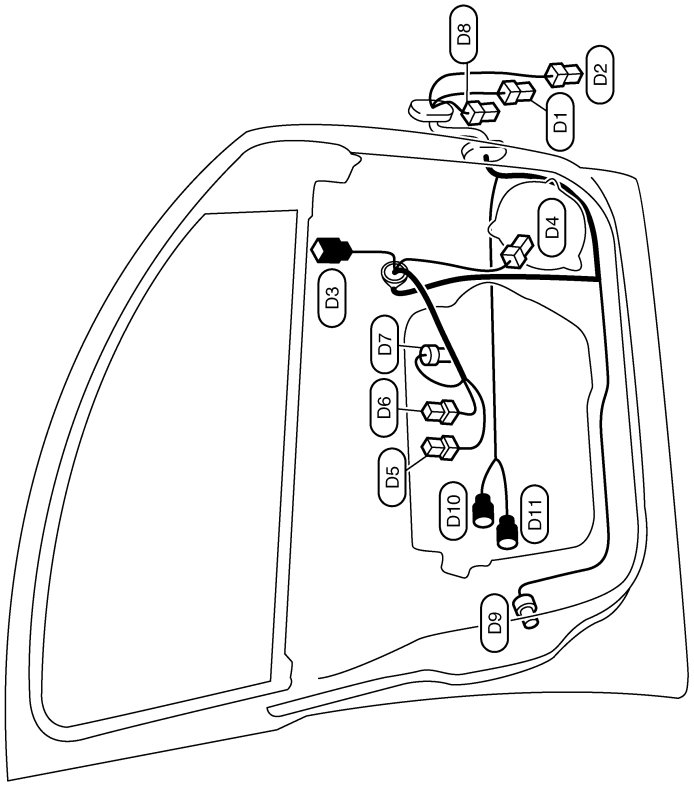
2006/12/06

JCMIA0102GB

LHD : Front Door Harness

INFOID:0000000001191238

LH SIDE



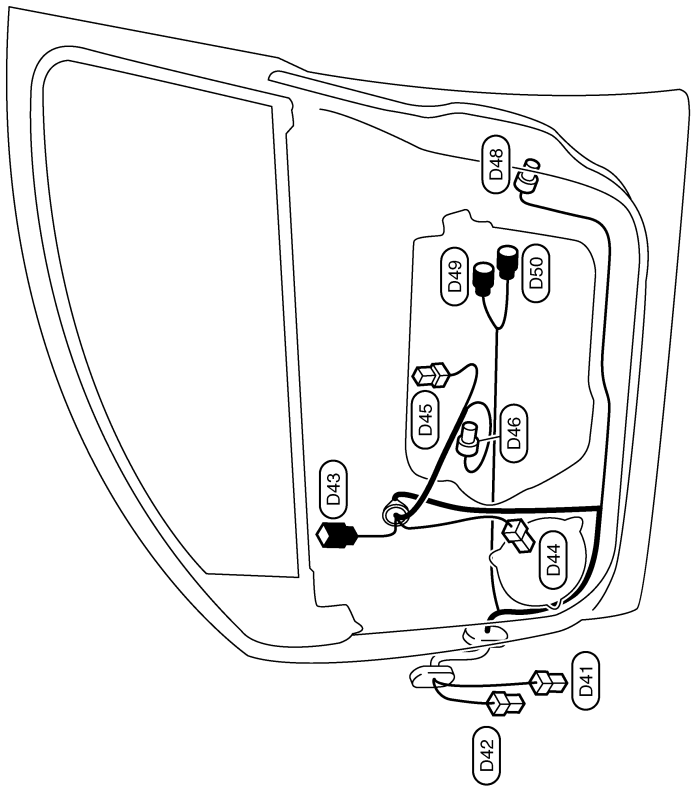
FRONT DOOR HARNESS LH (LHD MODELS)

2006/12/06

JCMIA0104GB

RH SIDE

FRONT DOOR HARNESS RH (LHD MODELS)



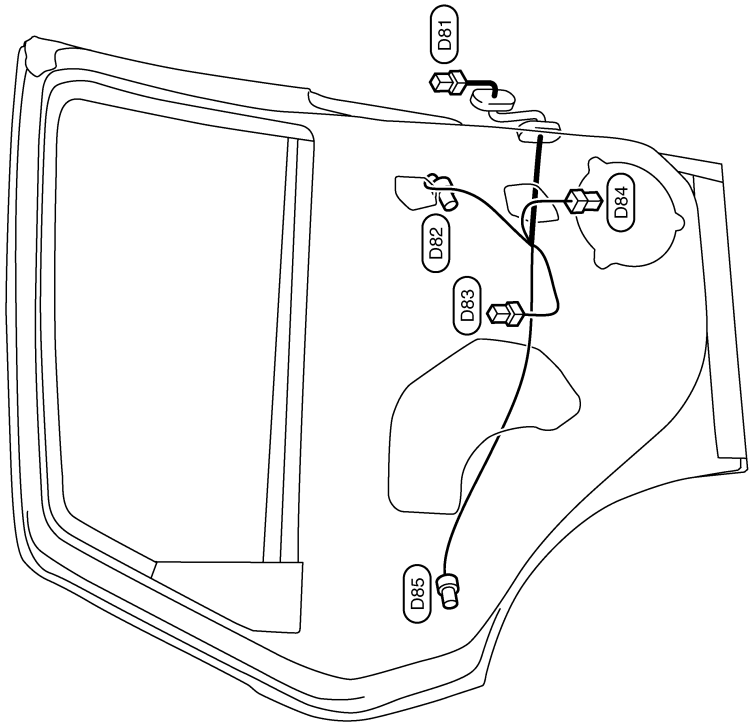
2006/12/06

JCMIA0105GB

LHD : Rear Door Harness

INFOID:0000000001191239

LH SIDE



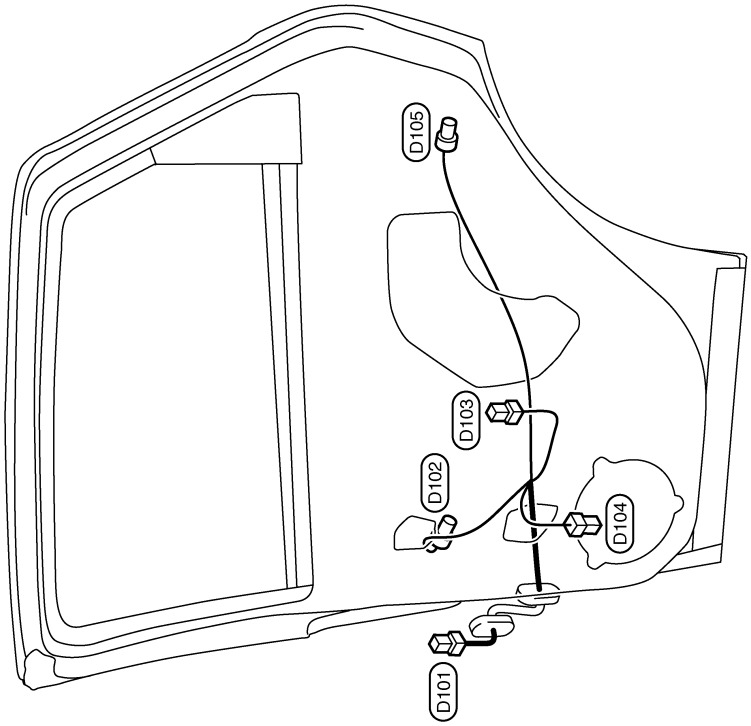
REAR DOOR HARNESS LH (LHD MODELS)

2006/12/06

JCMIA0108GB

RH SIDE

REAR DOOR HARNESS RH (LHD MODELS)

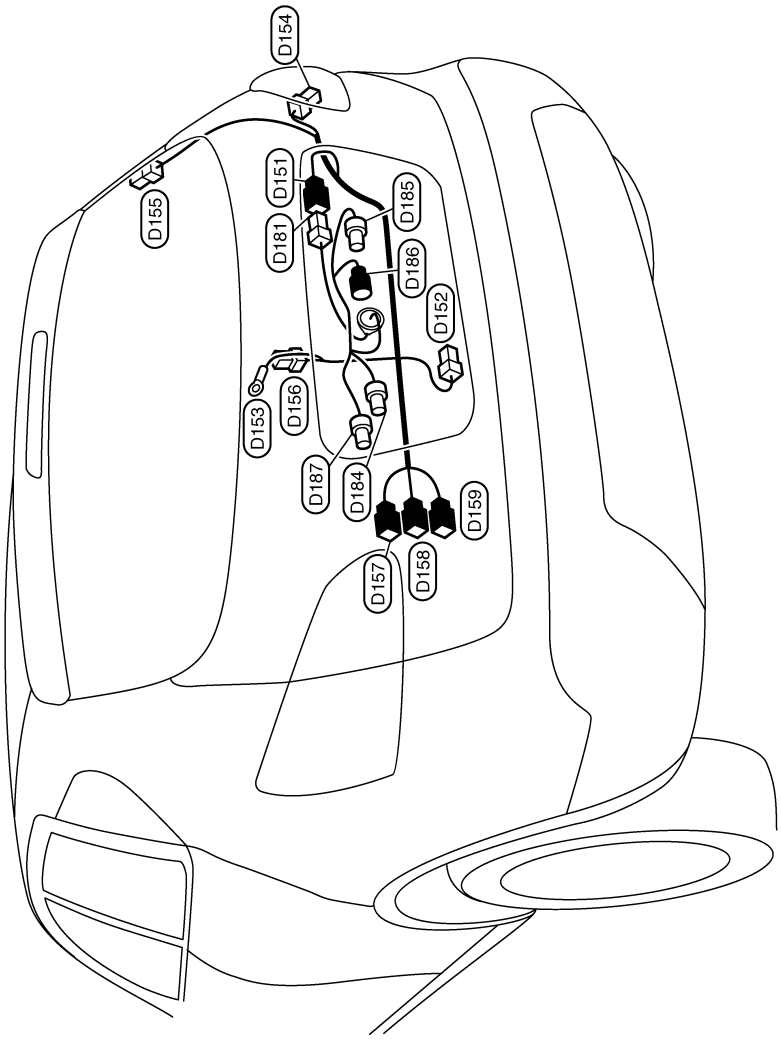


2006/12/06

JCMIA0109GB

LHD : Back Door Harness

INFOID:0000000001191240



BACK DOOR HARNESS (LHD MODELS)

2006/12/06

JCMIA0112GB

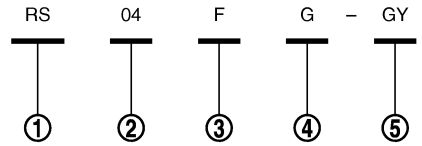
RHD

RHD : How To Read Harness Layout

INFOID:0000000001191241

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

Example:



JPMIA0113GB

CONNECTOR SYMBOL

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

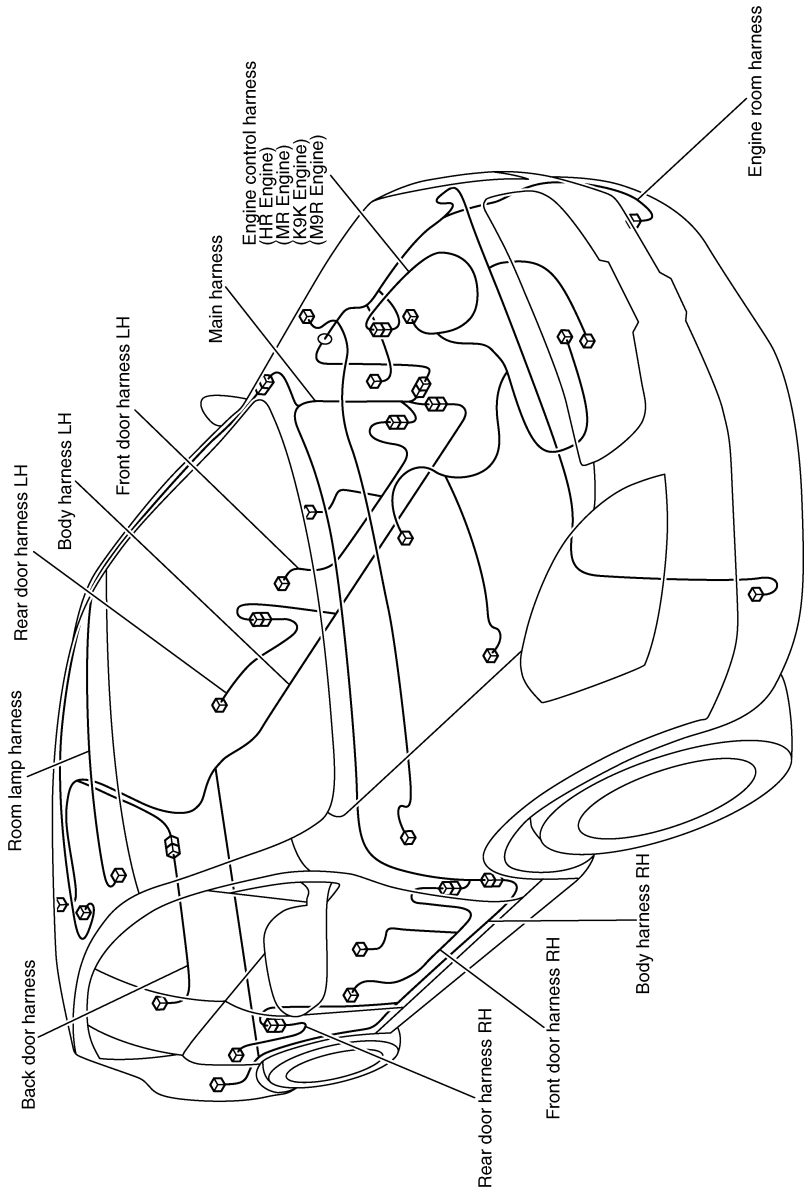
Connector type	Water proof type		Standard type	
	Male	Female	Male	Female
Connector symbol				
Ground terminal etc.	—			

JPMIA0114GB

RHD : Outline

INFOID:0000000001191242

Outline (RHD MODELS)



2007/04/27

JCMIA0181GB

RHD : Main Harness

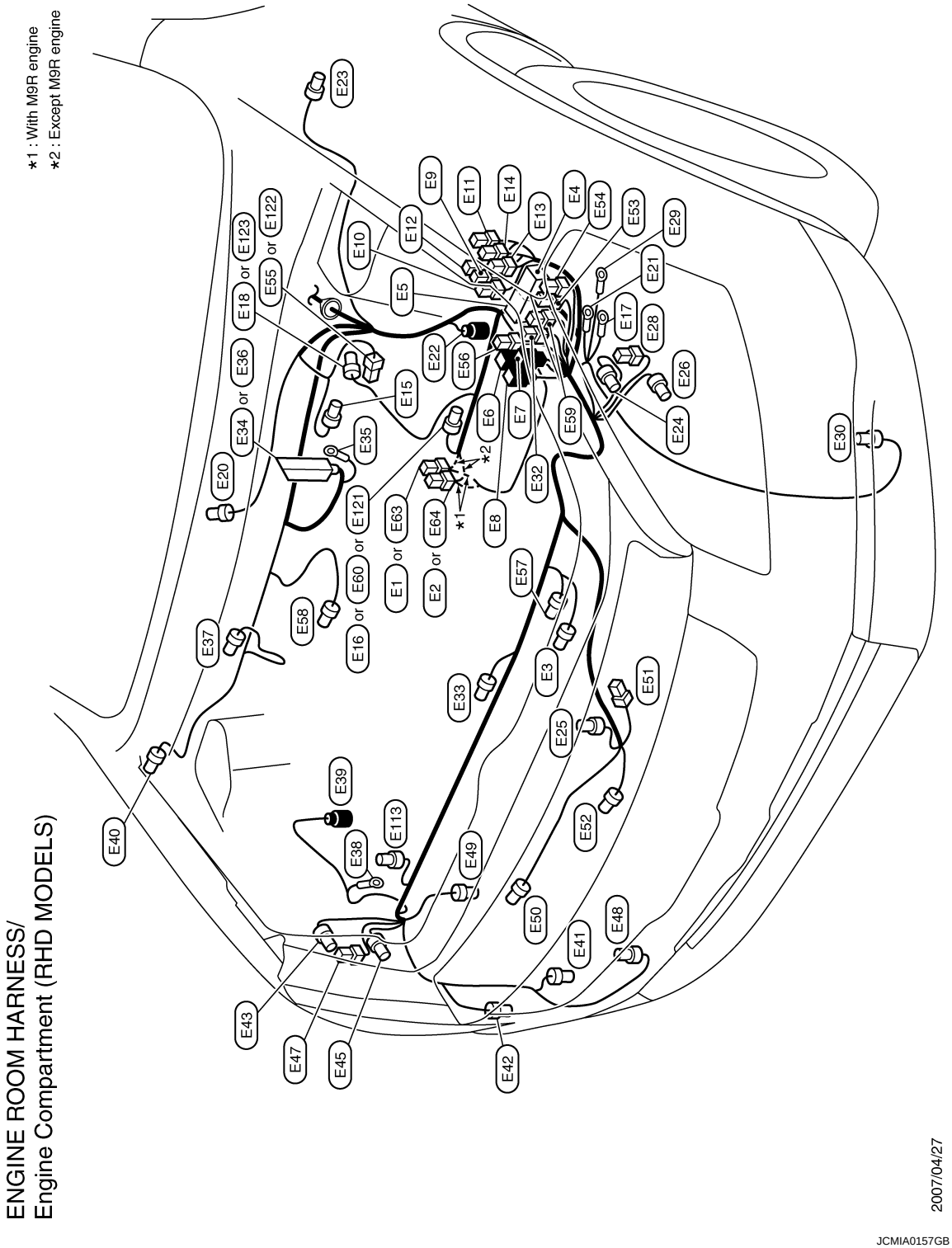
INFOID:0000000001191243

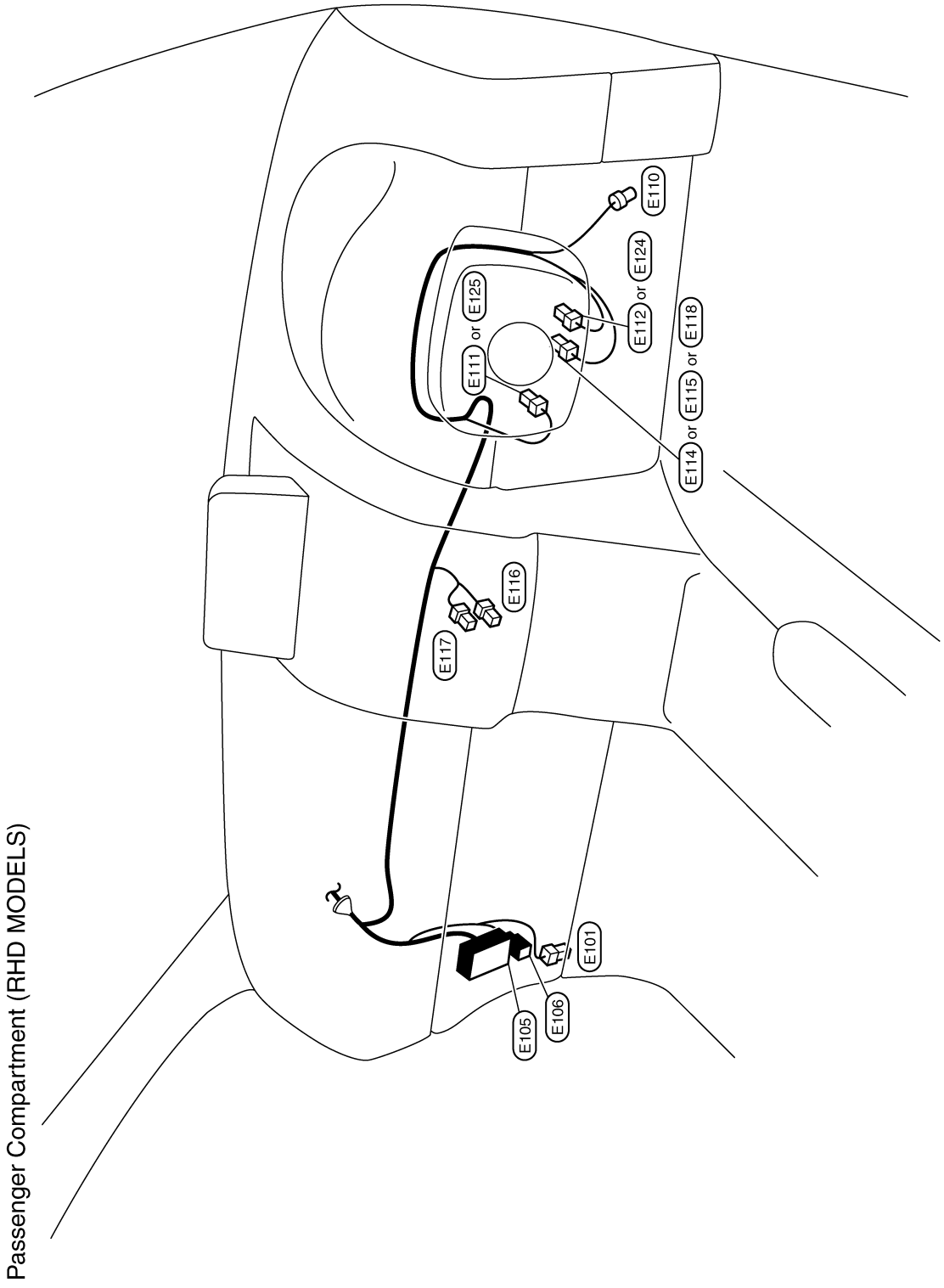


RHD : Engine Room Harness

INFOID:0000000001191244

ENGINE COMPARTMENT

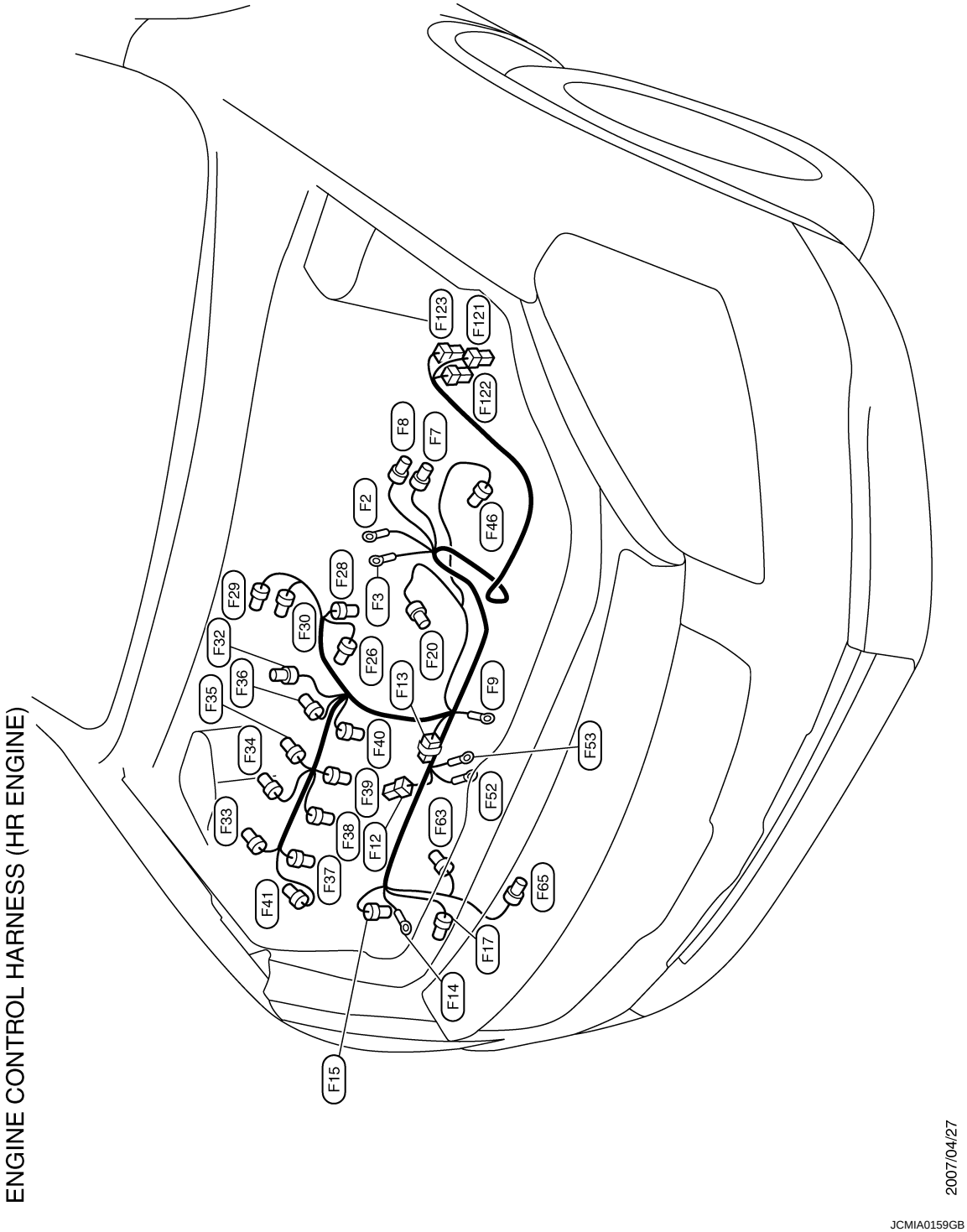



E110
E124
E125 or E112 or E118
E111 or E115 or
E114
E116
E117
E101
E105
E106
Passenger Compartment (RHD MODELS)
2007/04/27
JCMIA0158GB

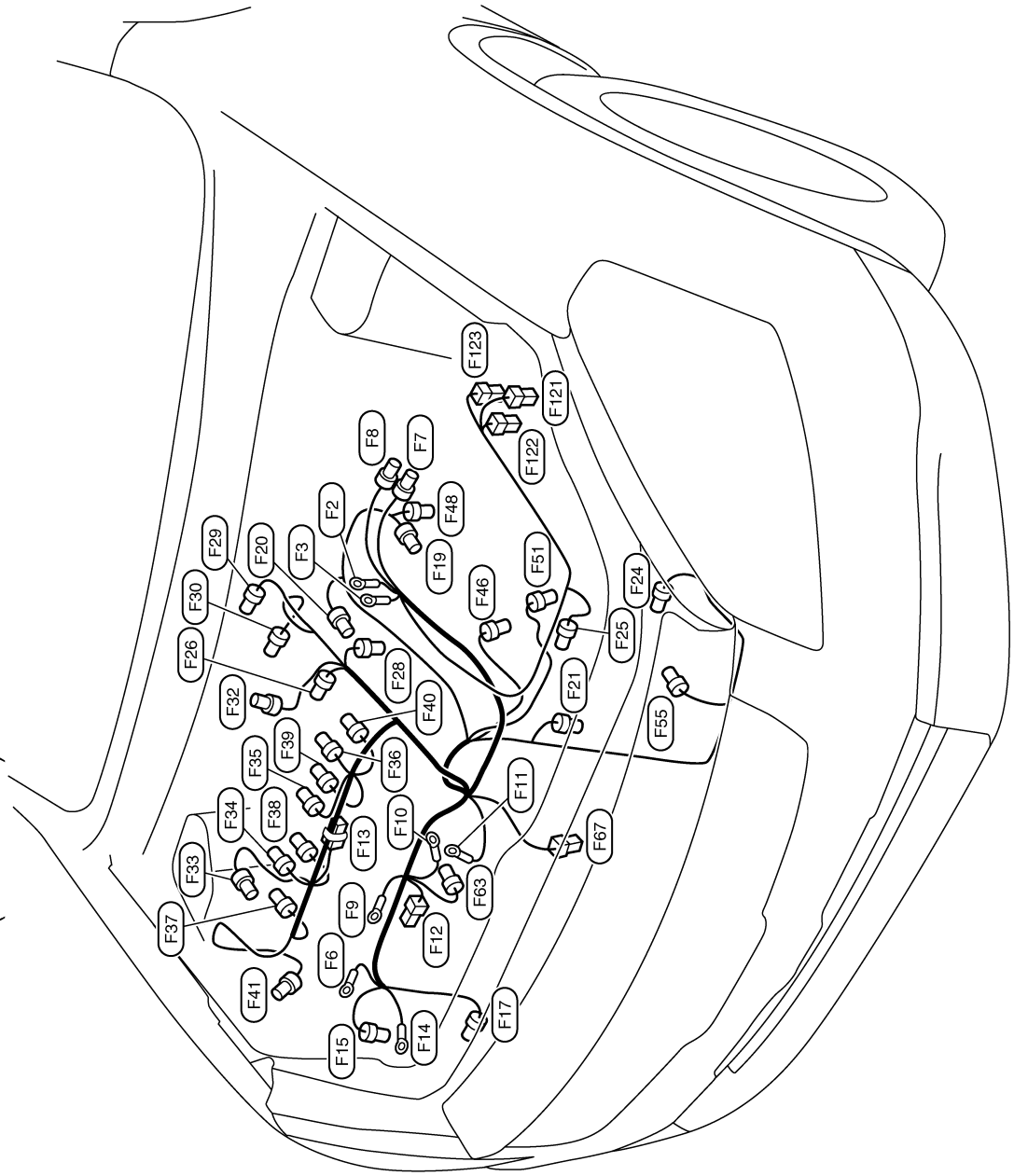
RHD : Engine Control Harness

INFOID:0000000001191245

HR ENGINE

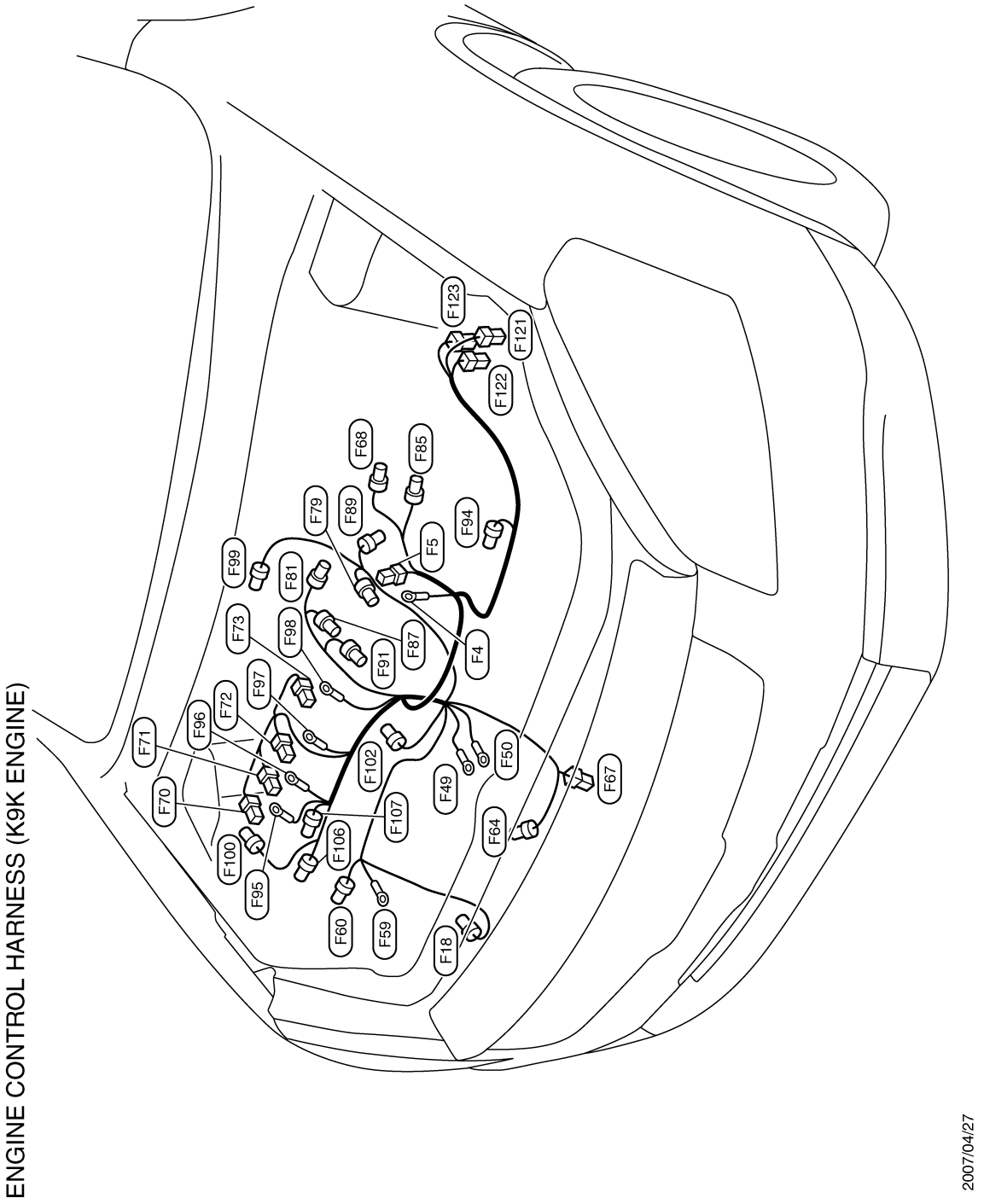


ENGINE CONTROL HARNESS (MR ENGINE)

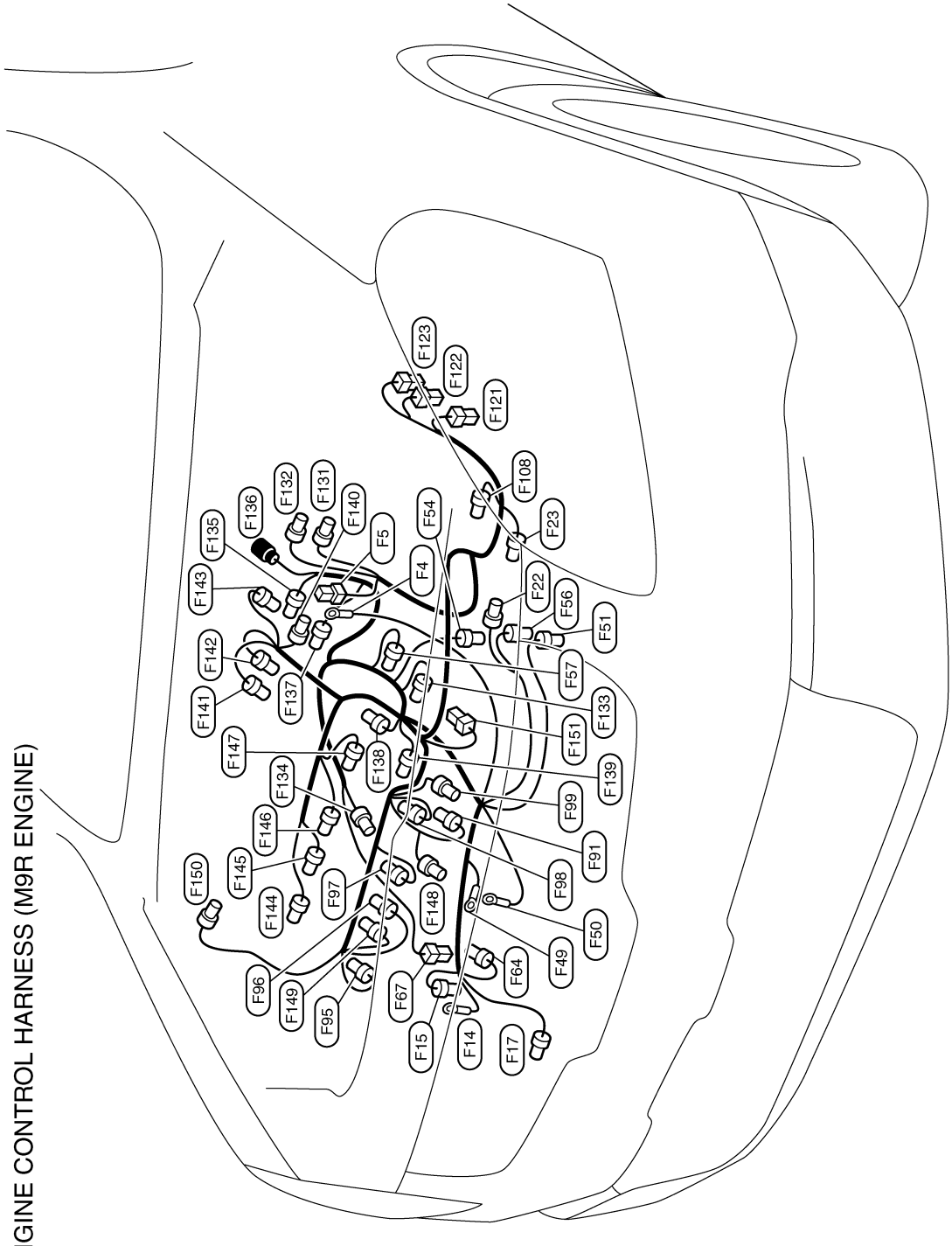


2007/04/27

JCMIA0160GB


ENGINE CONTROL HARNESS (K9K ENGINE)
F123
F121
F122
F68
F85
F79
F89
F94
F5
F99
F81
F73
F98
F87
F91
F4
F97
F72
F96
F71
F102
F50
F67
F70
F49
F107
F64
F100
F106
F95
F60
F59
F18
2007/04/27
JCMIA0161GB

ENGINE CONTROL HARNESS (M9R ENGINE)



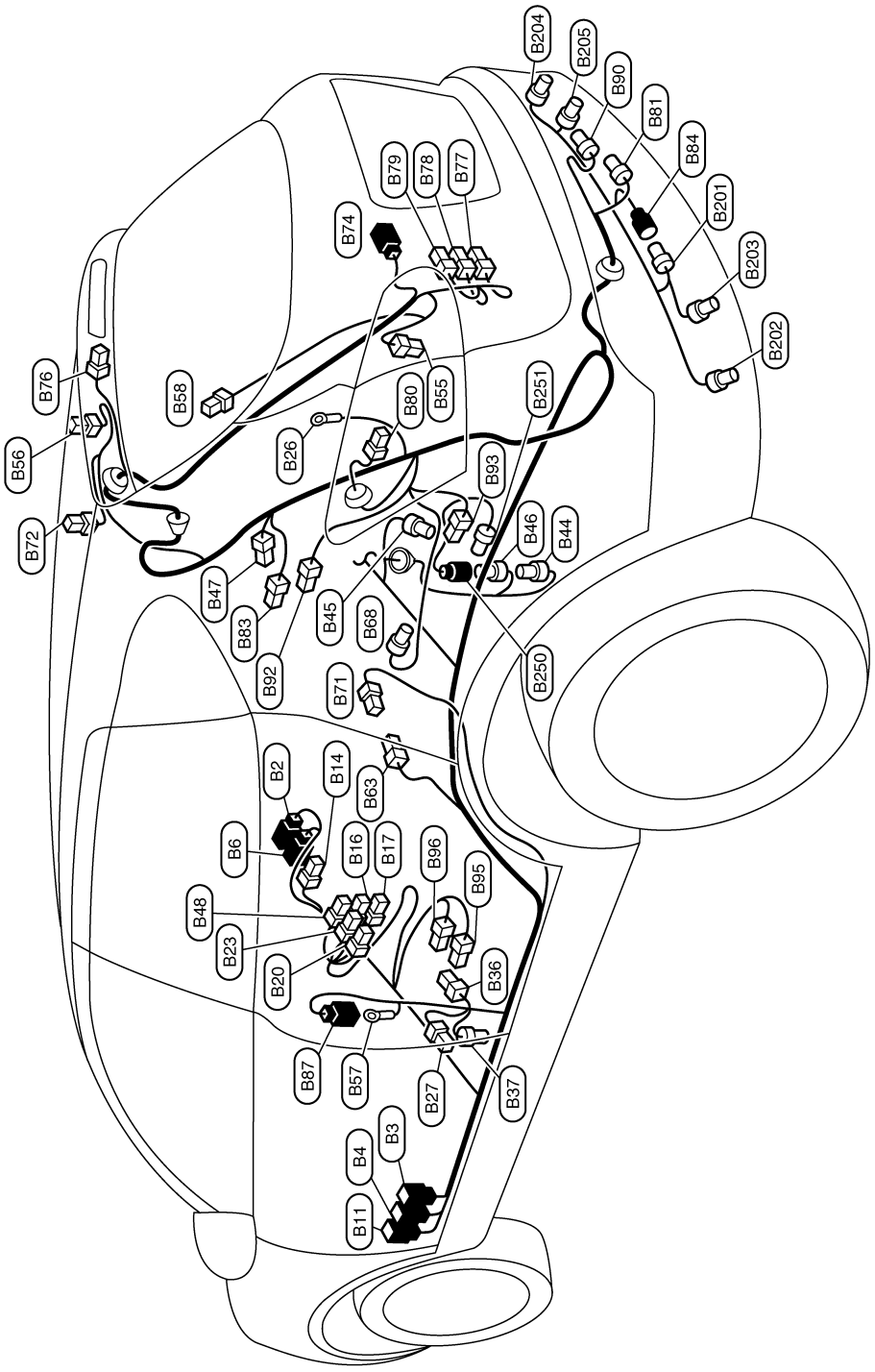
2007/04/27

JCMIA0162GB

RHD : Body Harness

INFOID:0000000001191246

LH SIDE



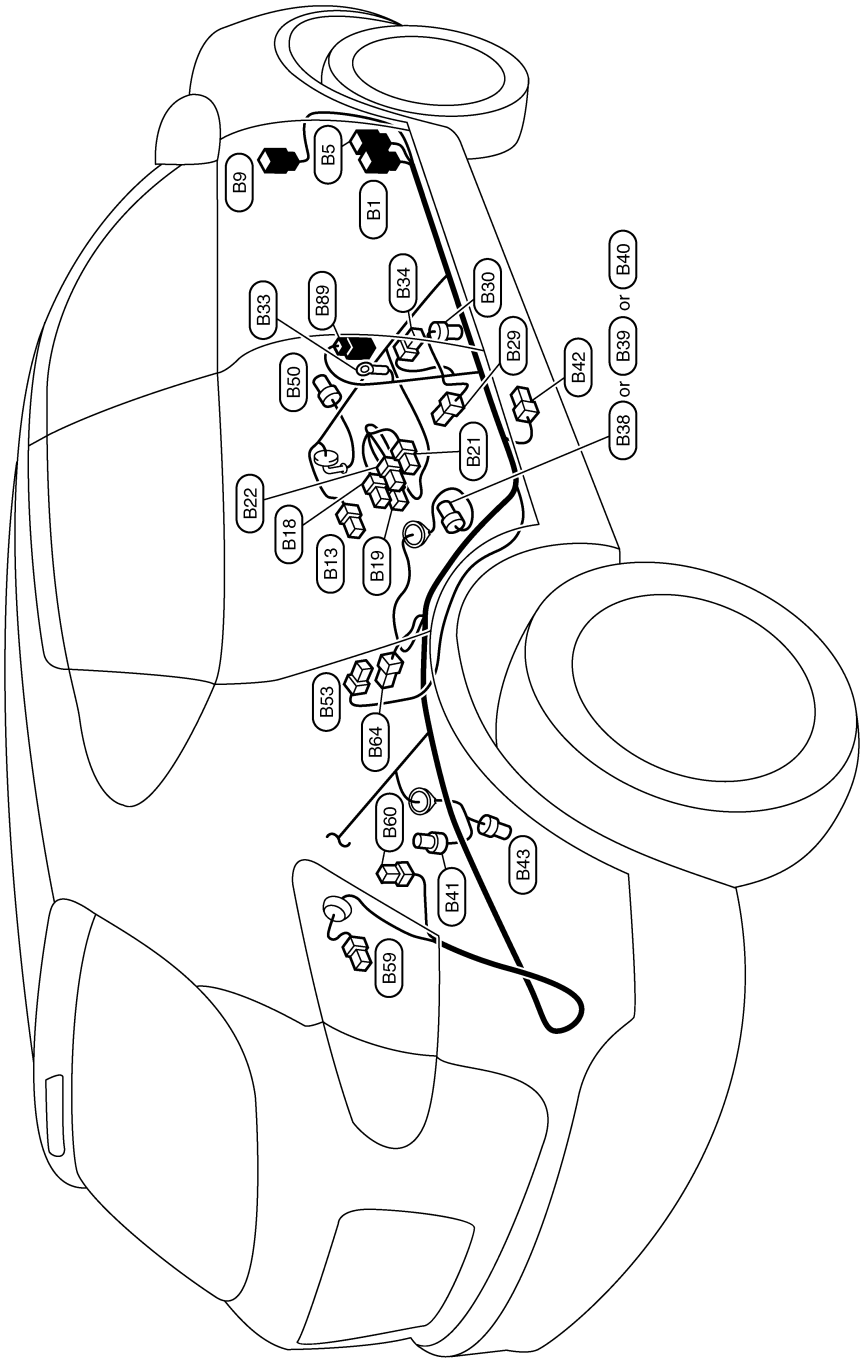
BODY HARNESS LH (RHD MODELS)

2007/04/27

JCMIA0179GB

RH SIDE

BODY HARNESS RH (RHD MODELS)



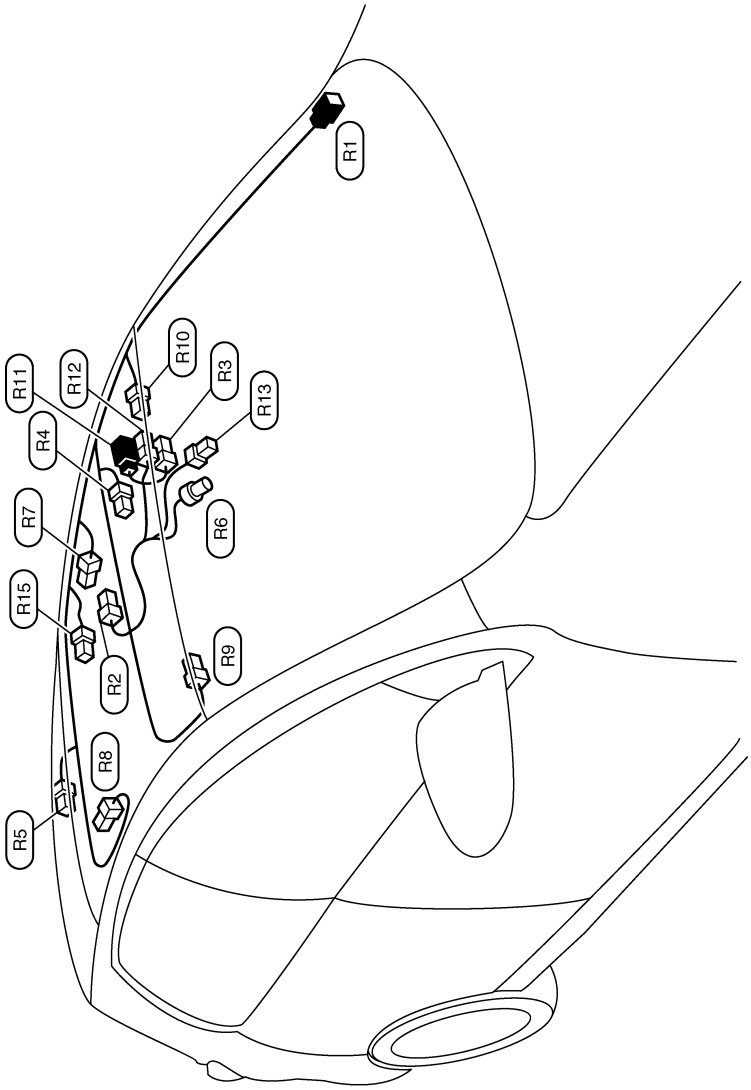
2007/04/27

JCMIA0164GB

RHD : Room Lamp Harness

INFOID:0000000001191247

ROOM LAMP HARNESS (RHD MODELS)



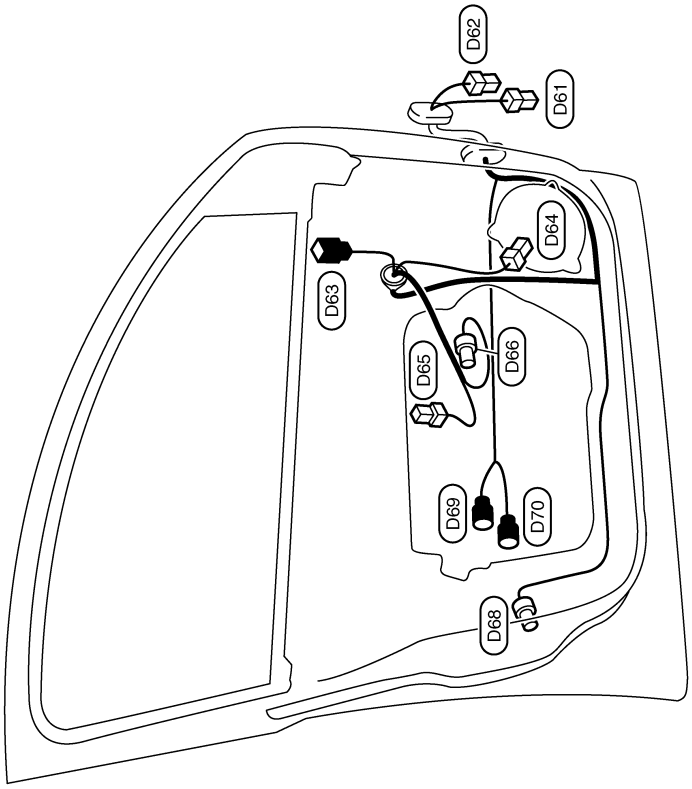
2006/12/06

JCMIA0103GB

RHD : Front Door Harness

INFOID:0000000001191248

LH SIDE

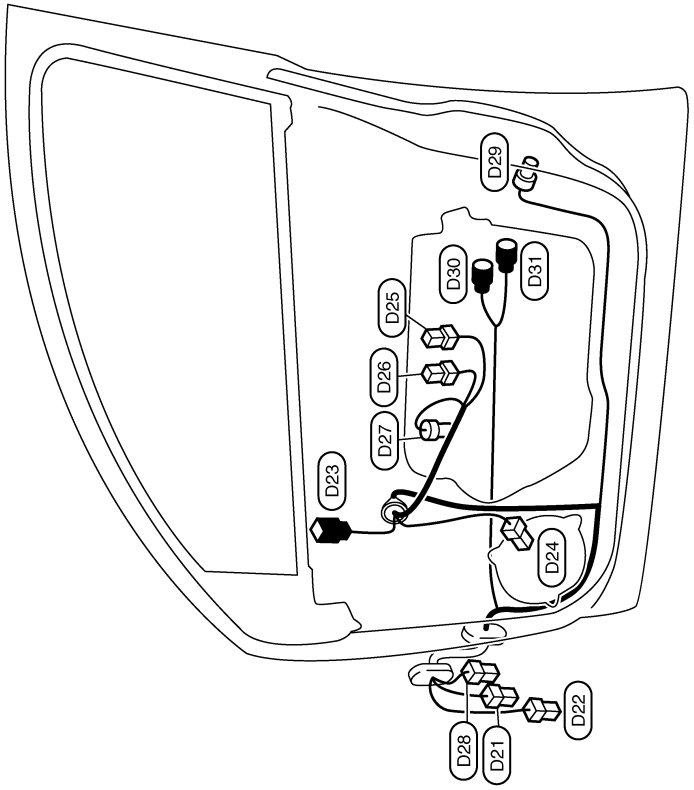


FRONT DOOR HARNESS LH (RHD MODELS)

2006/12/06

JCMIA0106GB

RH SIDE



FRONT DOOR HARNESS RH (RHD MODELS)

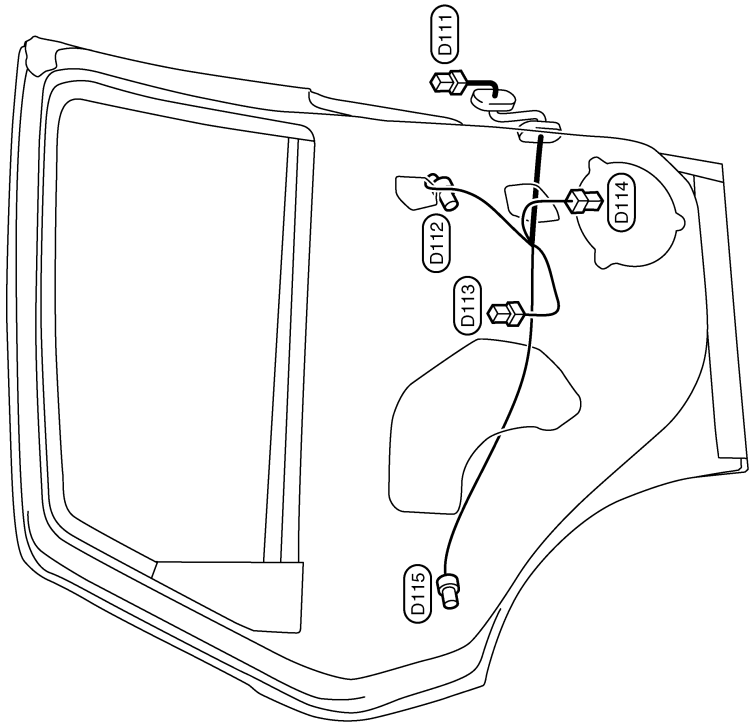
2006/12/06

JCMIA0107GB

RHD : Rear Door Harness

INFOID:0000000001191249

LH SIDE



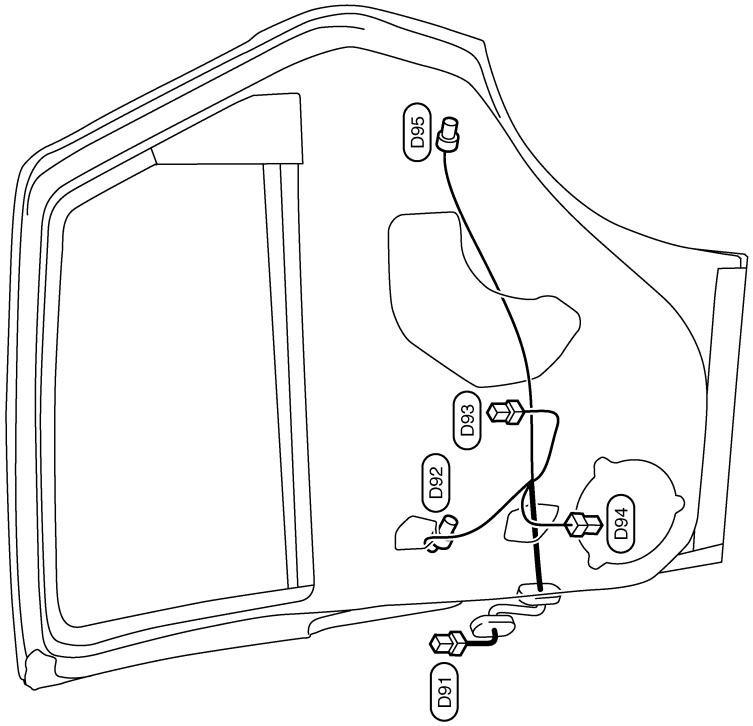
REAR DOOR HARNESS LH (RHD MODELS)

2006/12/06

JCMIA0110GB

RH SIDE

REAR DOOR HARNESS RH (RHD MODELS)



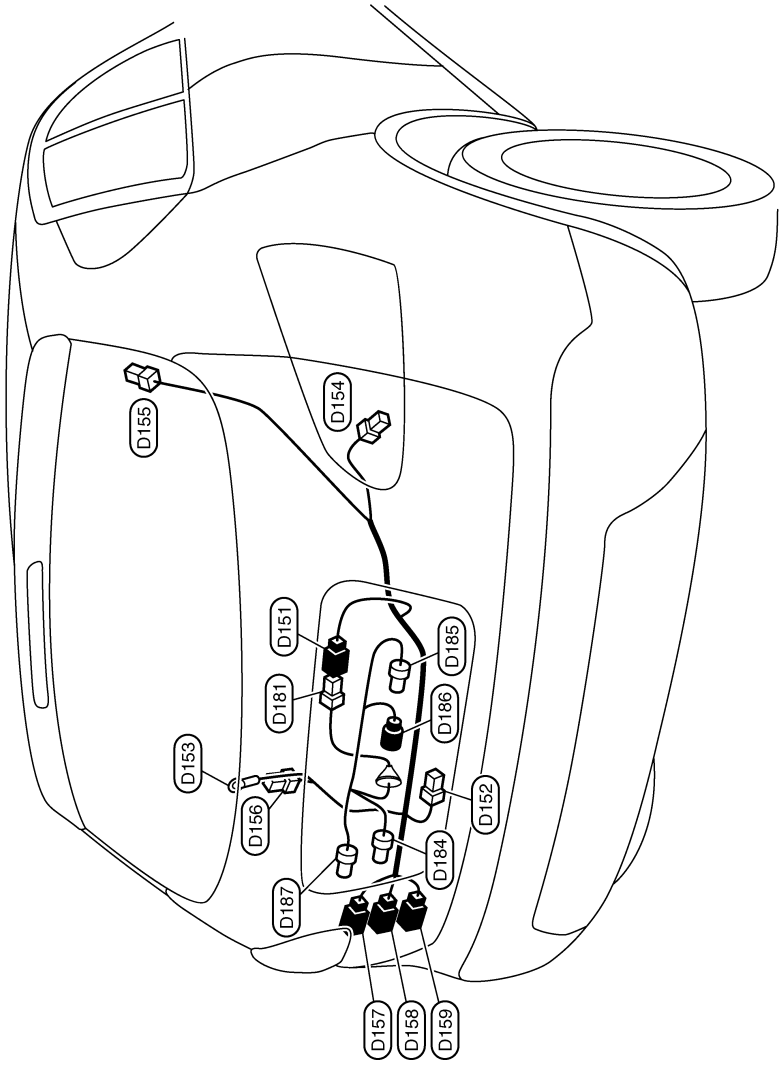
2006/12/06

JCMIA0111GB

RHD : Back Door Harness

INFOID:0000000001191250

BACK DOOR HARNESS (RHD MODELS)



2006/12/06

JCMIA0113GB

HARNESS CONNECTOR

Description

INFOID:0000000001191251

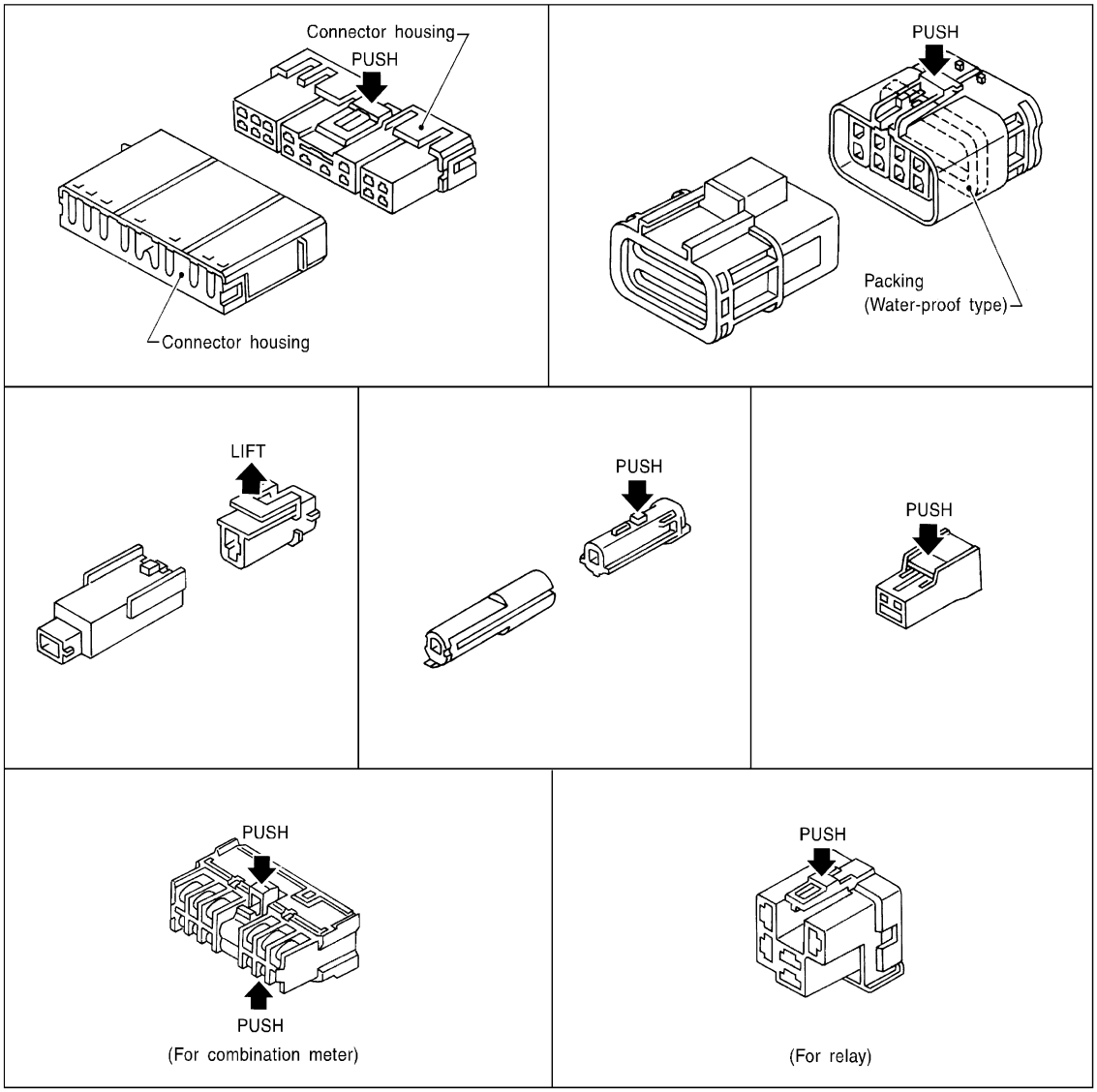
HARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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

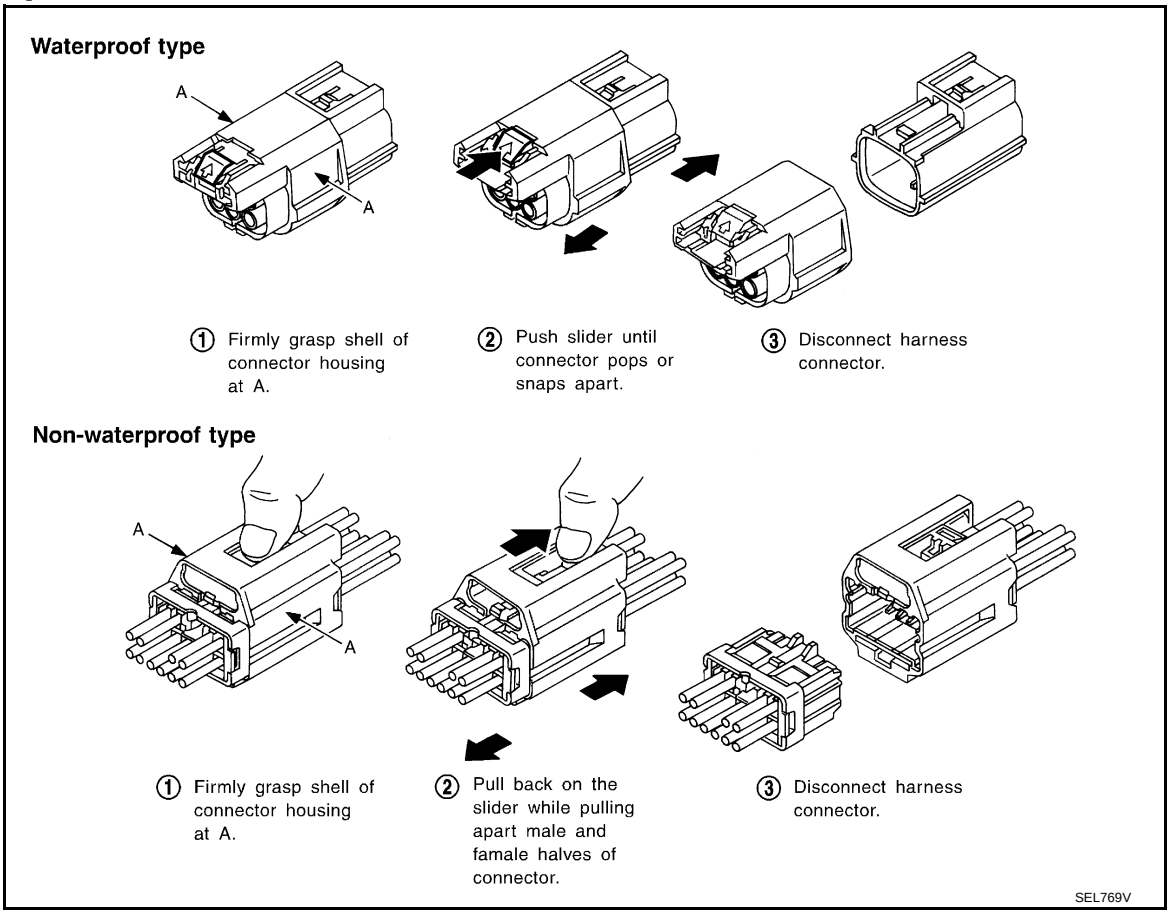
HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- 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]

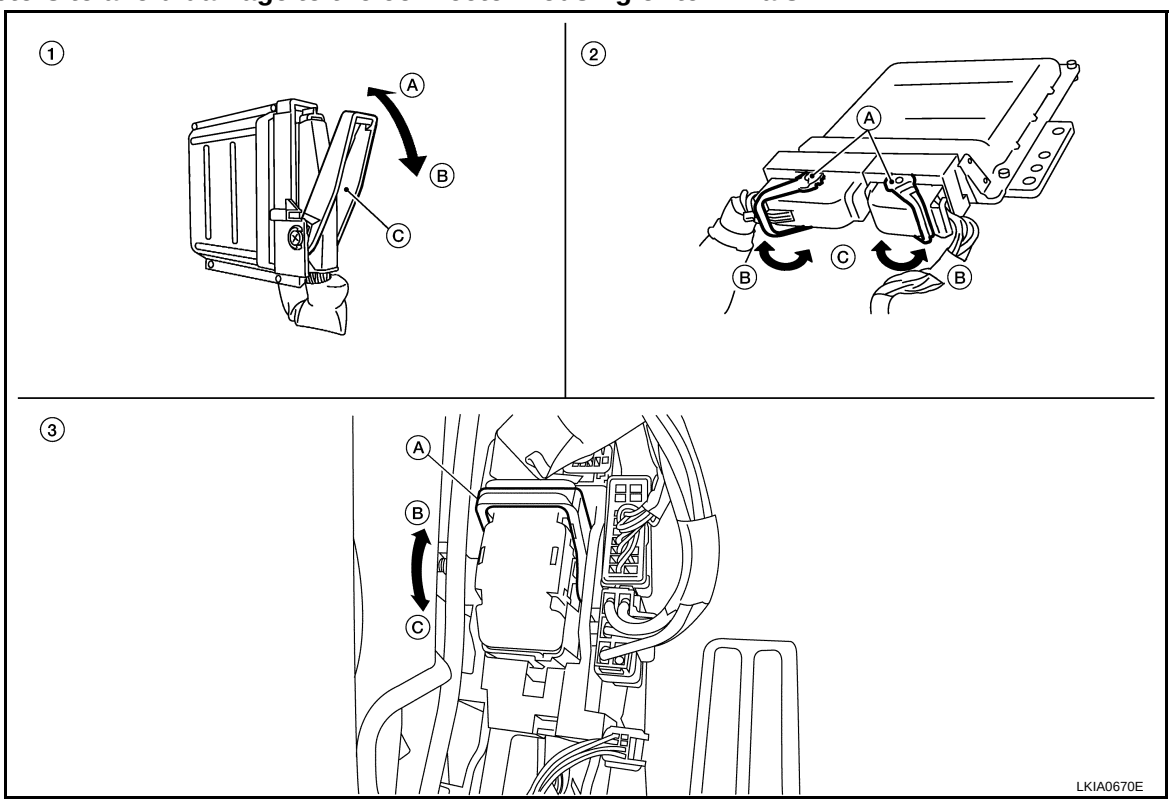


HARNESS CONNECTOR (LEVER LOCKING TYPE)

- 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

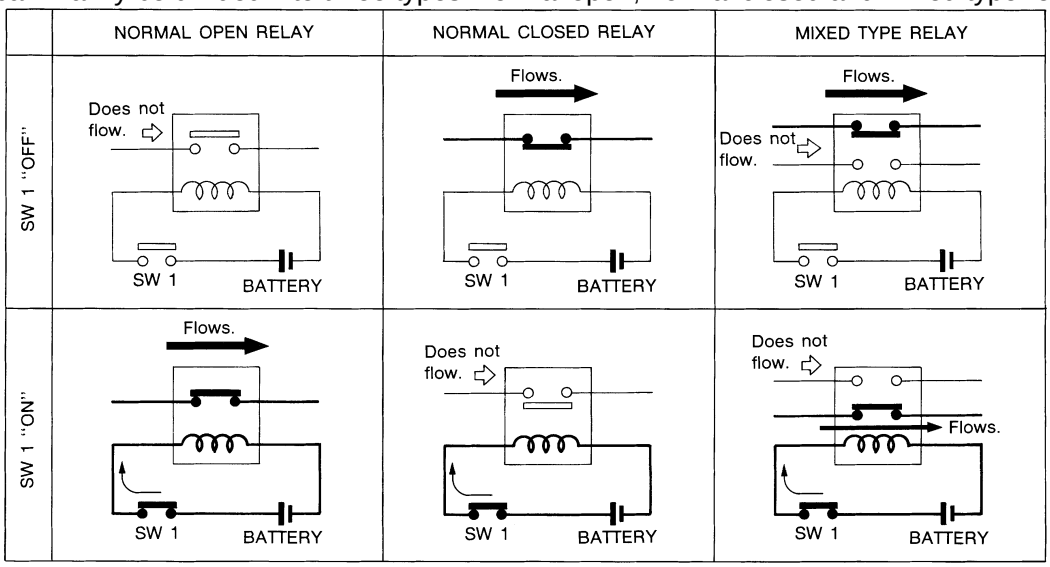
STANDARDIZED RELAY

Description

INFOID:0000000001191252

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

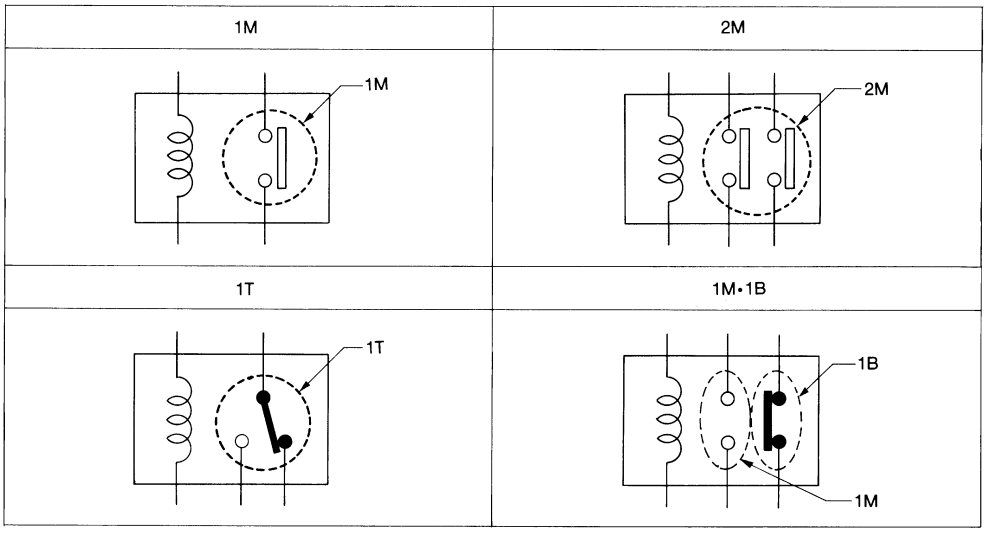
Relays can mainly be divided into three types: normal open, normal closed and mixed type relays.



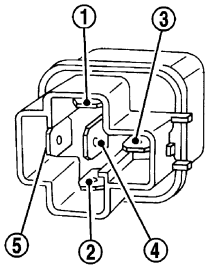
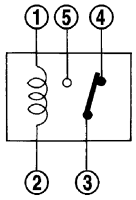
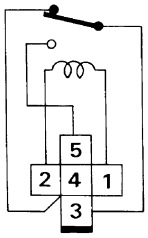
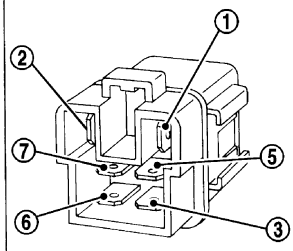
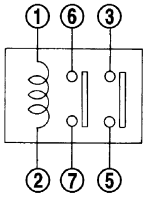
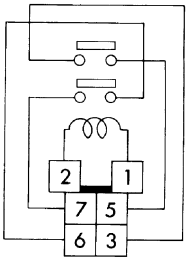
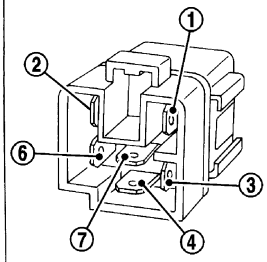
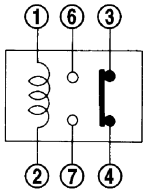
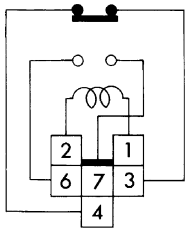
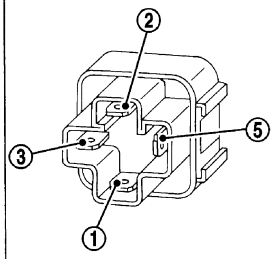
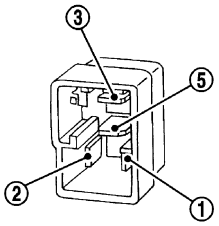
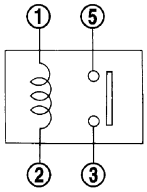
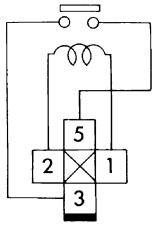
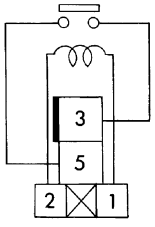
SEL881H

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

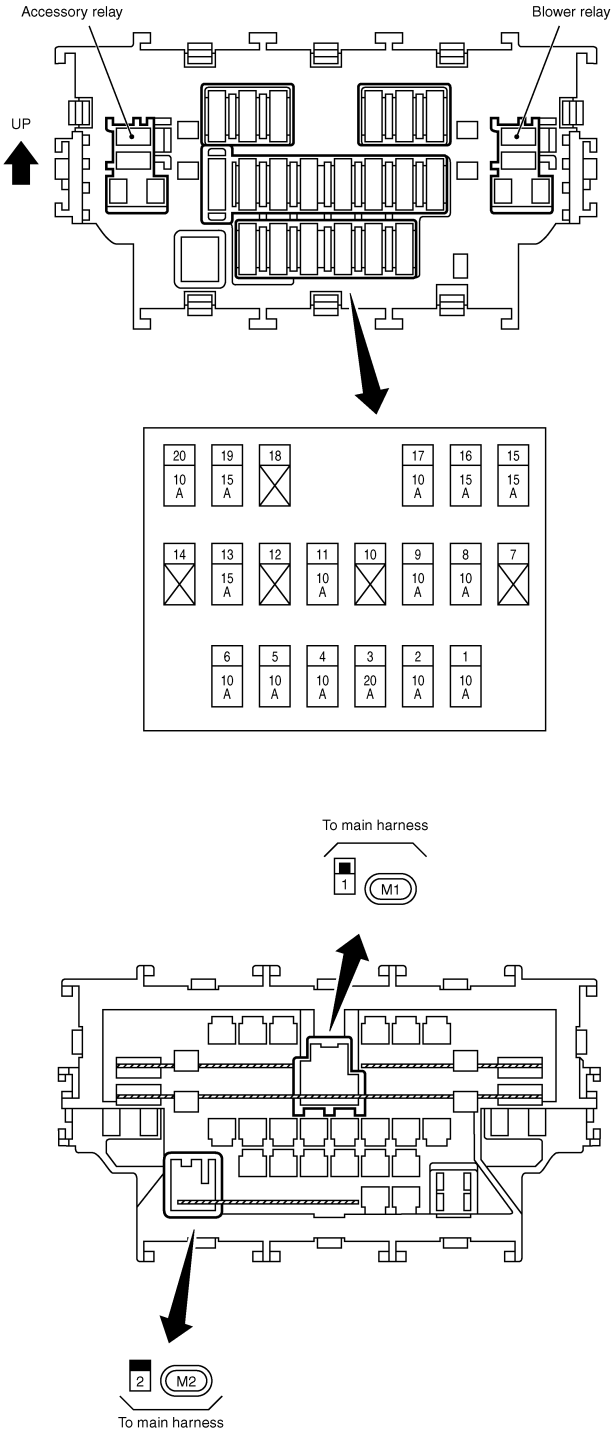
The arrangement of terminal numbers on the actual relays may differ from those shown above.

SEL188W

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:0000000001191253



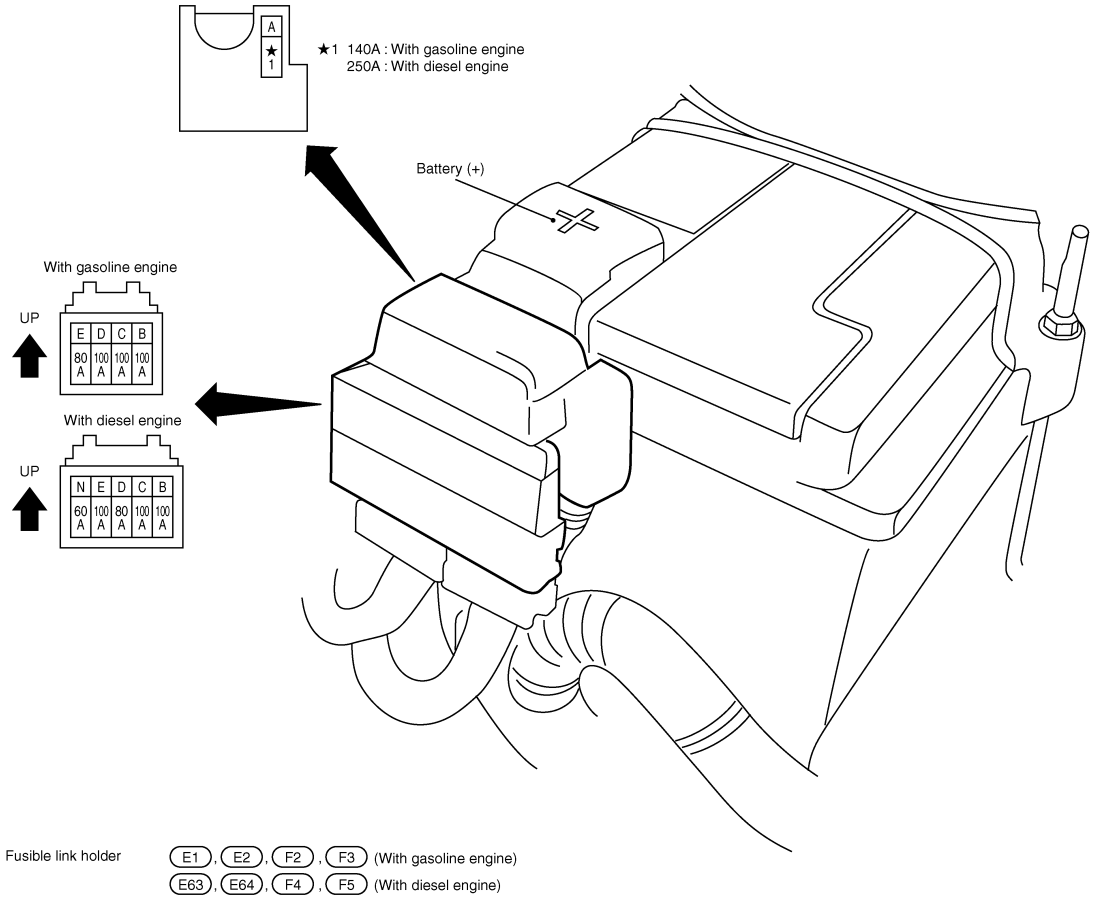
2007/04/27

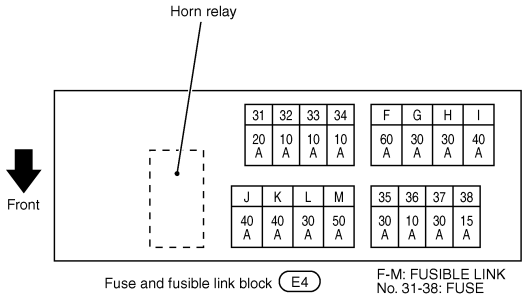
JCMWA0739GB

FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement

INFOID:0000000001191254





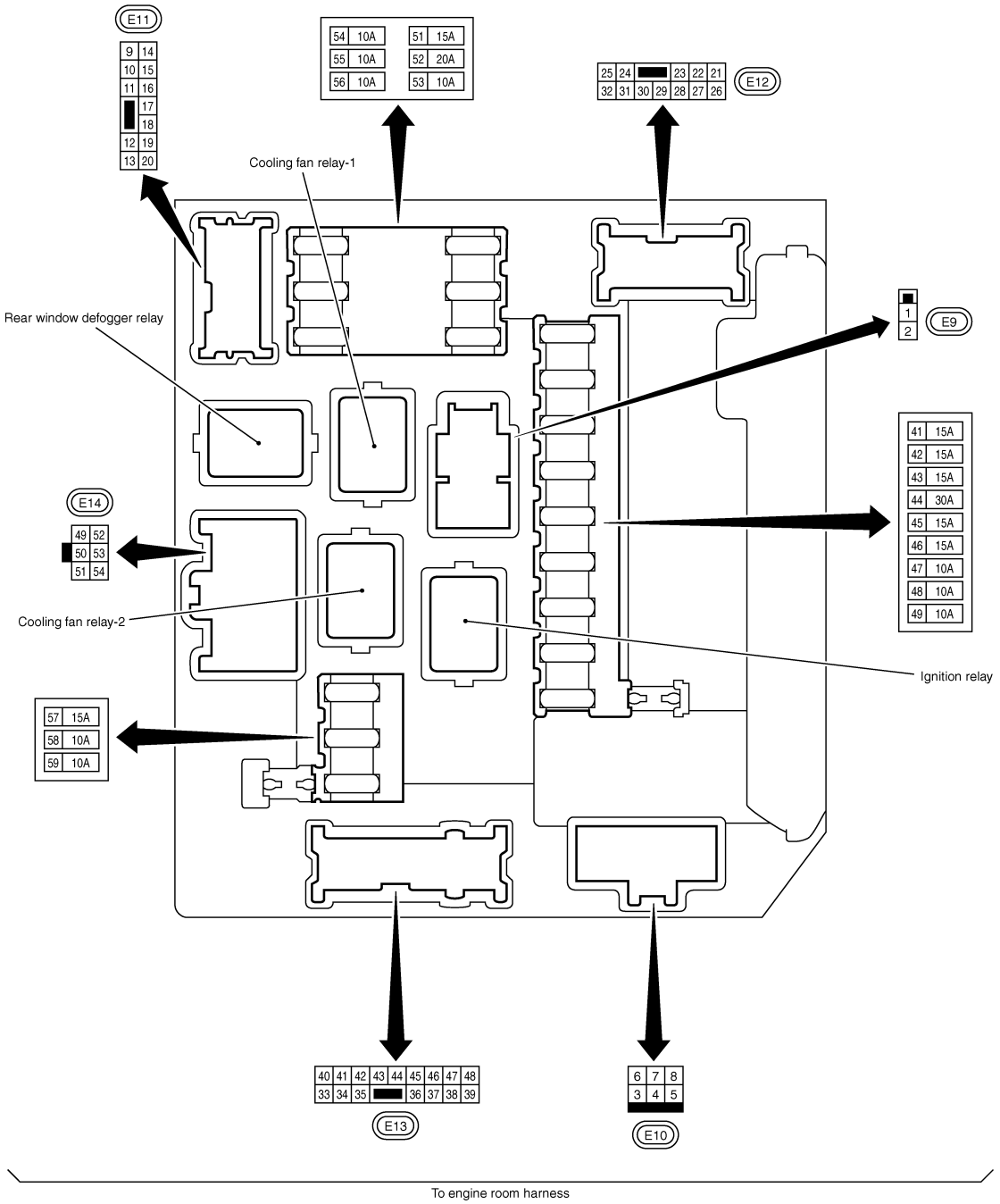
2007/04/27

JCMWA0740GB

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

Fuse, Connector and Terminal Arrangement

INFOID:0000000001191255



2007/04/27

JCMWA0741GE

PRECAUTION

PRECAUTIONS

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

INFOID:0000000001191256

The Supplemental Restraint System such as “AIR BAG” and “SEAT BELT PRE-TENSIONER”, used along with a front seat belt, helps to reduce the risk or severity of injury to the driver and front passenger for certain types of collision. This system includes seat belt switch inputs and dual stage front air bag modules. The SRS system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted.
Information necessary to service the system safely is included in the “SRS 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.**

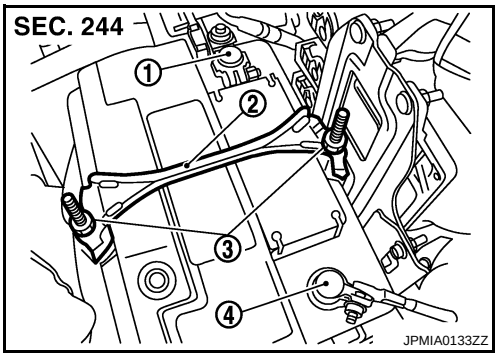
ON-VEHICLE REPAIR

BATTERY

Exploded View

INFOID:0000000001191260

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

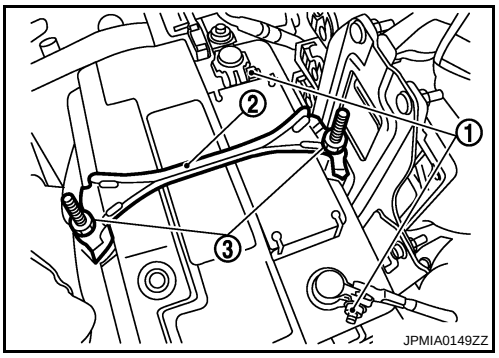


Removal and Installation

INFOID:0000000001191261

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 (3) to remove battery fix frame (2).
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)

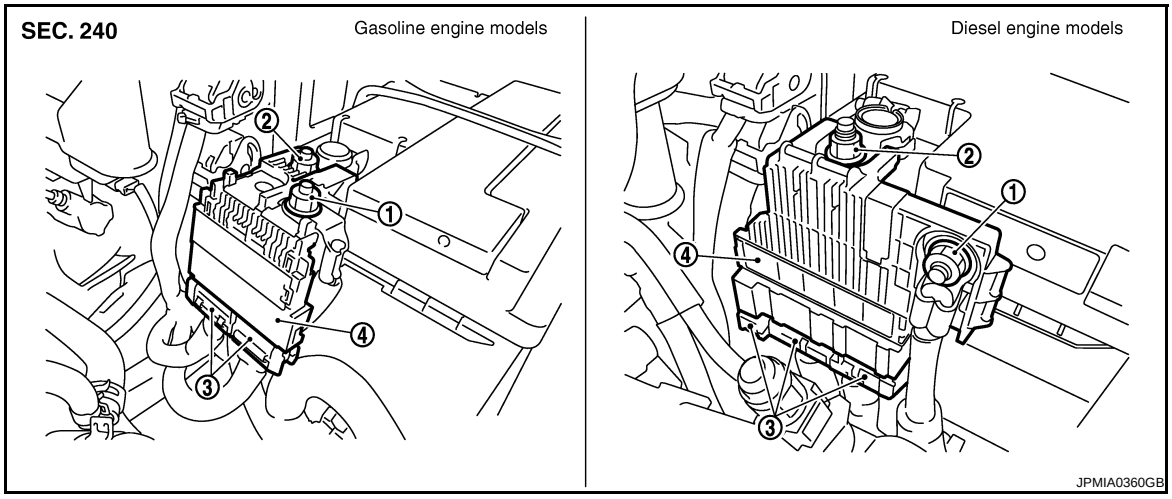
Battery terminal nut

: 5.4 N·m (0.55 kg-m, 48 in-lb)

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:0000000001191262



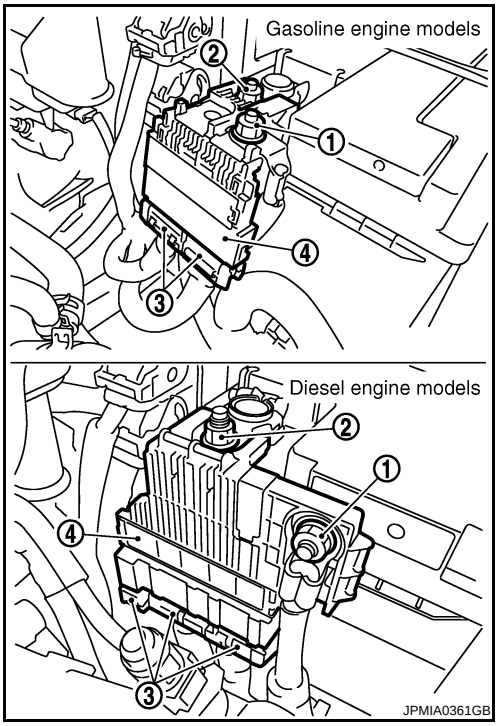
1. Harness mounting nut
2. Fusible link holder mounting nut
3. Harness connector
4. Battery terminal with fusible link

Removal and Installation

INFOID:0000000001191263

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 (3).
4. Remove fusible link holder mounting nut (2) 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:0000000001191264

Specification		Gasoline engine models		Diesel engine models
		Standard	Cold option*	
Type		L1	L2	L3
20 hour rate capacity	[V - Ah]	12 - 50	12 - 60	12 - 70
Cold cranking current (For reference value)	[A]	420	600	720

*: LHD models only