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SECTION

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:0000000007632687

OPERATION PROHIBITION

WARNING:

- Parts with strong magnet is used in this vehicle.
- Technicians using a medical electric device such as pacemaker must never perform operation on the vehicle, as magnetic field can affect the device function by approaching to such parts.

NORMAL CHARGE PRECAUTION

WARNING:

- If a technician uses a medical electric device such as an implantable cardiac pacemaker or an implantable cardioverter defibrillator, the possible effects on the devices must be checked with the device manufacturer before starting the charge operation.
- As radiated electromagnetic wave generated by on board charger at normal charge operation may effect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not enter the vehicle compartment (including luggage room) during normal charge operation.

PRECAUTION AT TELEMATICS SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of TCU might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), when using the service, etc.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of TCU might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before TCU use.

PRECAUTION AT INTELLIGENT KEY SYSTEM OPERATION

WARNING:

- If a technician uses implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), avoid the device implanted part from approaching within approximately 220 mm (8.66 in) from interior/exterior antenna.
- The electromagnetic wave of Intelligent Key might affect the function of the implantable cardiac pacemaker or the implantable cardioverter defibrillator (ICD), at door operation, at each request switch operation, or at engine starting.
- If a technician uses other medical electric devices than implantable cardiac pacemaker or implantable cardioverter defibrillator (ICD), the electromagnetic wave of Intelligent Key might affect the function of the device. The possible effects on the devices must be checked with the device manufacturer before Intelligent Key use.

Point to Be Checked Before Starting Maintenance Work

INFOID:0000000007632688

The high voltage system may starts automatically. It is required to check that the timer air conditioner and timer charge (during EVSE connection) are not set before starting maintenance work.


NOTE:

If the timer air conditioner or timer charge (during EVSE connection) is set, the high voltage system starts automatically even when the power switch is in OFF state.

High Voltage Precautions

INFOID:0000000007632689

DANGER:

 Since hybrid vehicles and electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents if the high voltage component and vehicle are

PRECAUTIONS

< PRECAUTION >

handled incorrectly. Be sure to follow the correct work procedures when performing inspection and maintenance.

WARNING:

- Be sure to remove the service plug in order to disconnect the high voltage circuits before performing inspection or maintenance of high voltage system harnesses and parts.
- The removed service plug must always be carried in a pocket of the responsible worker or placed in the tool box during the procedure to prevent the plug from being connected by mistake.
- Be sure to wear insulated protective equipment before beginning work on the high voltage system.
- Never allow workers other than the responsible person to touch the vehicle containing high voltage parts. To keep others from touching the high voltage parts, these parts must be covered with an insulating sheet except when using them.

CAUTION:

Never bring the vehicle into the READY status with the service plug removed unless otherwise instructed in the Service Manual. A malfunction may occur if this is not observed.

HIGH VOLTAGE HARNESS AND EQUIPMENT IDENTIFICATION

All the high voltage harnesses and connectors are orange. The Li-ion battery and other high voltage devices include an orange high voltage label. Never touch these harnesses and high voltage parts.

HANDLING OF HIGH VOLTAGE HARNESS AND TERMINALS

Immediately insulate disconnected high voltage connectors and terminals with insulating tape.

REGULATIONS ON WORKERS WITH MEDICAL ELECTRONICS

WARNING:

The vehicle contains parts that contain powerful magnets. If a person who is wearing a heart pacemaker or other medical device is close to these parts, the medical device may be affected by the magnets. Such persons must not perform work on the vehicle.

PROHIBITED ITEMS TO CARRY DURING THE WORK

Hybrid vehicles and electric vehicles contain parts with high voltage and intense magnetic force. Never carry metal products and magnetic recording media (e.g. cash card, prepaid card) to repair/inspect high voltage parts. If this is not observed, the metal products may create a risk of short circuit and the magnetic recording media may lose their magnetic recording.

POSTING A SIGN OF "DANGER! HIGH VOLTAGE AREA. KEEP OUT"

PRECAUTIONS

< PRECAUTION >

Indicate "HIGH VOLTAGE. DO NOT TOUCH" on the vehicle under repair/inspection to call attention to other workers.

**DANGER:
HIGH VOLTAGE
REPAIR IN PROGRESS.
DO NOT TOUCH!**

Person in charge:

**DANGER:
HIGH VOLTAGE
REPAIR IN PROGRESS.
DO NOT TOUCH!**

Person in charge:_____

Copy this page and put it after folding on the roof of the vehicle in service.

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

INFOID:0000000007632690

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

PRECAUTIONS

< PRECAUTION >

system uses the seat belt switches to determine the front air bag deployment, and may only deploy one front air bag, depending on the severity of a collision and whether the front occupants are belted or unbelted. Information necessary to service the system safely is included in the "SRS AIR BAG" and "SEAT BELT" of this Service Manual.

WARNING:

Always observe the following items for preventing accidental activation.

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision that would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag Module, see "SRS AIR BAG".
- Never use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

PRECAUTIONS WHEN USING POWER TOOLS (AIR OR ELECTRIC) AND HAMMERS

WARNING:

Always observe the following items for preventing accidental activation.

- When working near the Air Bag Diagnosis Sensor Unit or other Air Bag System sensors with the power switch ON, never use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the power switch OFF, disconnect the 12V battery, and wait at least 3 minutes before performing any service.

Precautions for Removing Battery Terminal

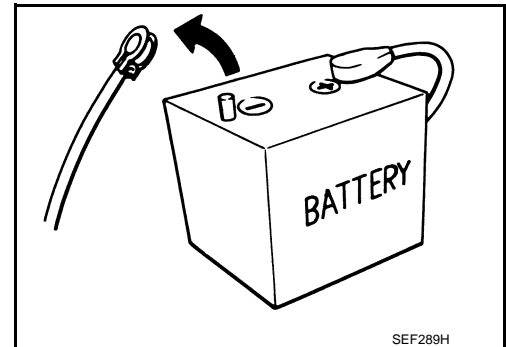
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- When removing the 12V battery terminal, turn OFF the power switch and wait at least 5 minutes.

NOTE:

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

- Always disconnect the battery terminal within 60 minutes after turning OFF the power switch. Even when the power switch is OFF, the 12V battery automatic charge control may automatically start after a lapse of 60 minutes from power switch OFF.
- Disconnect 12V battery terminal according to the following steps.



WORK PROCEDURE

1. Check that EVSE is not connected.

NOTE:

If EVSE is connected, the air conditioning system may be automatically activated by the timer A/C function.

2. Turn the power switch OFF → ON → OFF. Get out of the vehicle. Close all doors (including back door).
3. Check that the charge status indicator lamp does not blink and wait for 5 minutes or more.

NOTE:

If the battery is removed within 5 minutes after the power switch is turned OFF, plural DTCs may be detected.

4. Remove 12V battery terminal within 60 minutes after turning the power switch OFF → ON → OFF.

CAUTION:

- After all doors (including back door) are closed, if a door (including back door) is opened before battery terminals are disconnected, start over from Step 1.
- After turning the power switch OFF, if "Remote A/C" is activated by user operation, stop the air conditioner and start over from Step 1.

NOTE:

Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour.

PRECAUTIONS

< PRECAUTION >

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the power switch.
NOTE:
If the power switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.
- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.
NOTE:
The removal of 12V battery may cause a DTC detection error.

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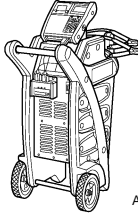
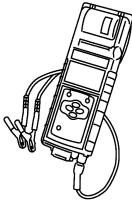
< PREPARATION >

PREPARATION

PREPARATION

Special Service Tools

INFOID:000000007796367

Tool number (Kent-Moore No.) Tool name		Description
— (—) Model GR8-1200 NI Multitasking battery and electrical diagnostic station	 AWI1A1239ZZ	Tests batteries, starting and charging systems and charges batteries. For operating instructions, refer to diagnostic station instruction manual.
— (—) Model EXP-800 NI Battery and electrical diagnostic analyzer	 JSMIA0806ZZ	Tests batteries and charging systems. For operating instructions, refer to diagnostic analyzer instruction manual.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

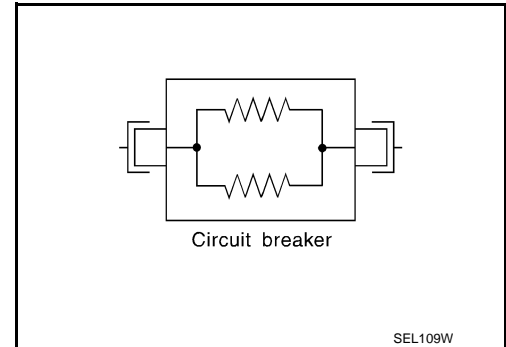
SYSTEM DESCRIPTION

COMPONENT PARTS

Circuit Breaker

INFOID:0000000007632693

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.



12V Battery

INFOID:0000000007632694

Type		55B24L(S)
20 hour rate capacity	[V – Ah]	12 – 45
Cold cranking current (For reference value)	[A]	433

NOTE:

VCM charges the 12V battery for 5 minutes when the vehicle power is not turned ON for a set period of time (120 h). Refer to [EVC-48. "AUTOMATIC 12V BATTERY CHARGE CONTROL : System Description"](#).

Harness Connector

INFOID:0000000007632695

NOTE:

The color of the high voltage harnesses and connectors is orange. Do not carelessly touch these harnesses and connector.

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:

To prevent damage to the parts, never pull the harness or wires when disconnecting the connector.

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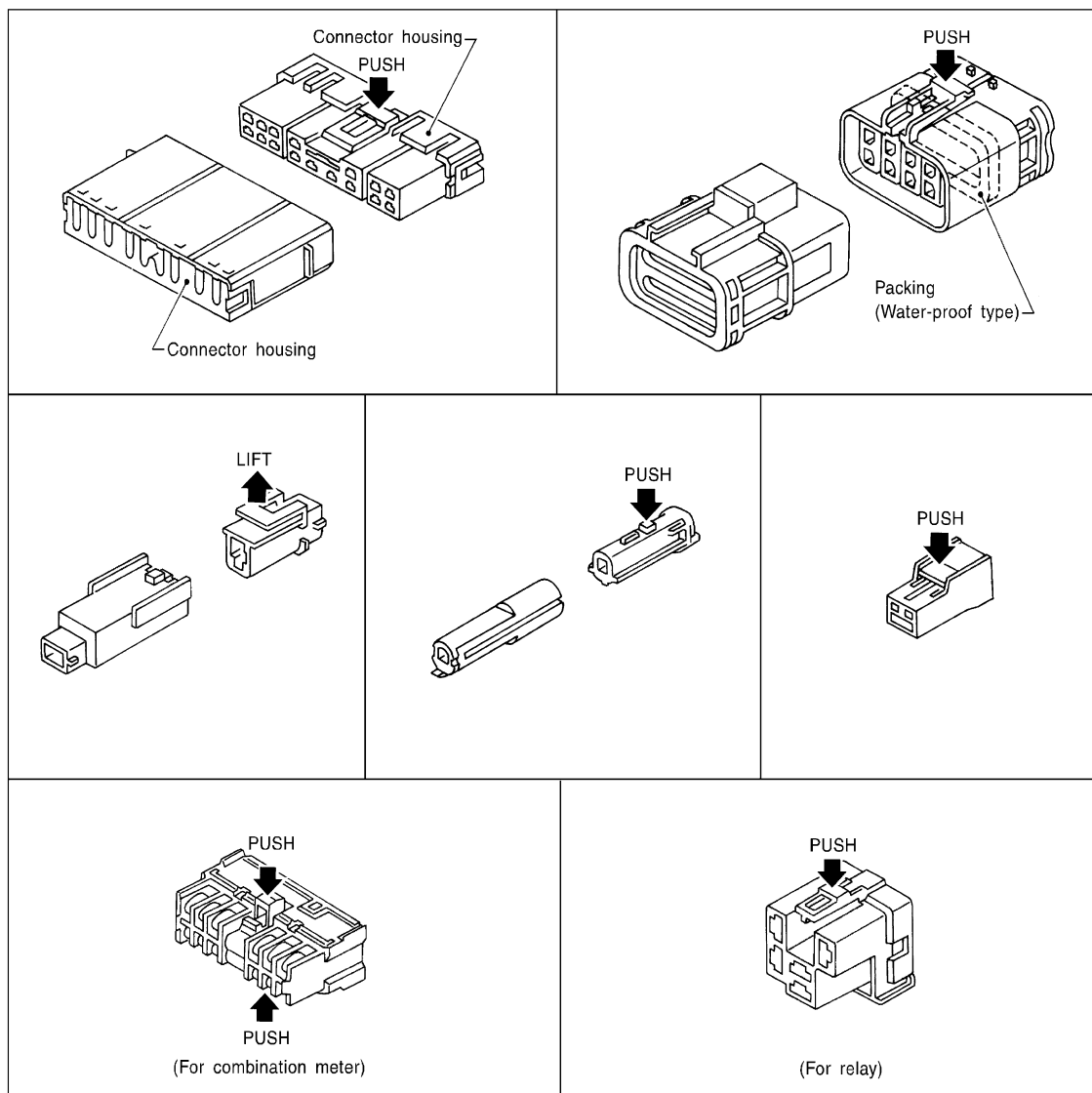
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COMPONENT PARTS

< SYSTEM DESCRIPTION >

[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.
- After connecting the connector, check that the slider is located in the correct position.

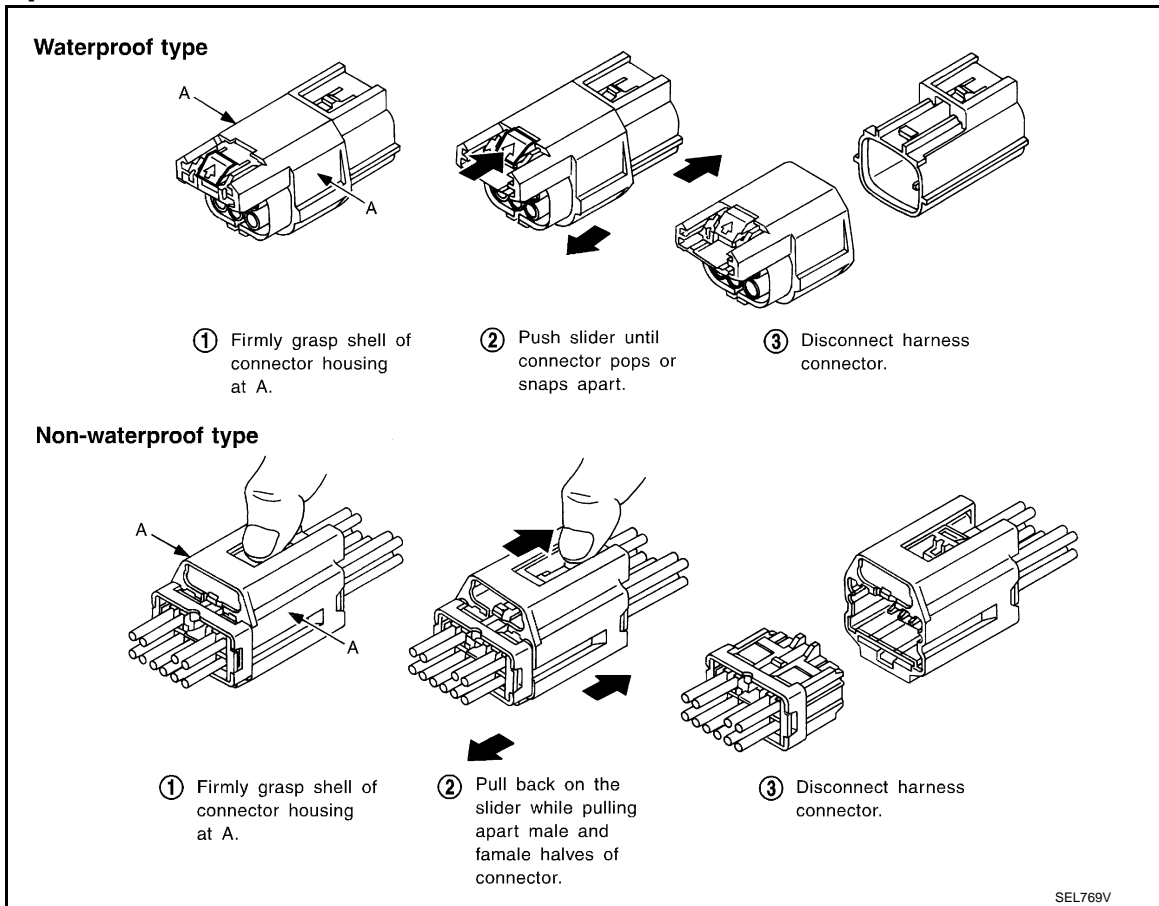
CAUTION:

- To prevent damage to the parts, never pull the harness or wires when disconnecting the connector.
- To prevent damage to the parts, be careful not to damage the connector support bracket when disconnecting the connector.

COMPONENT PARTS

< SYSTEM DESCRIPTION >

[Example]



HARNESS CONNECTOR (LEVER LOCKING TYPE)

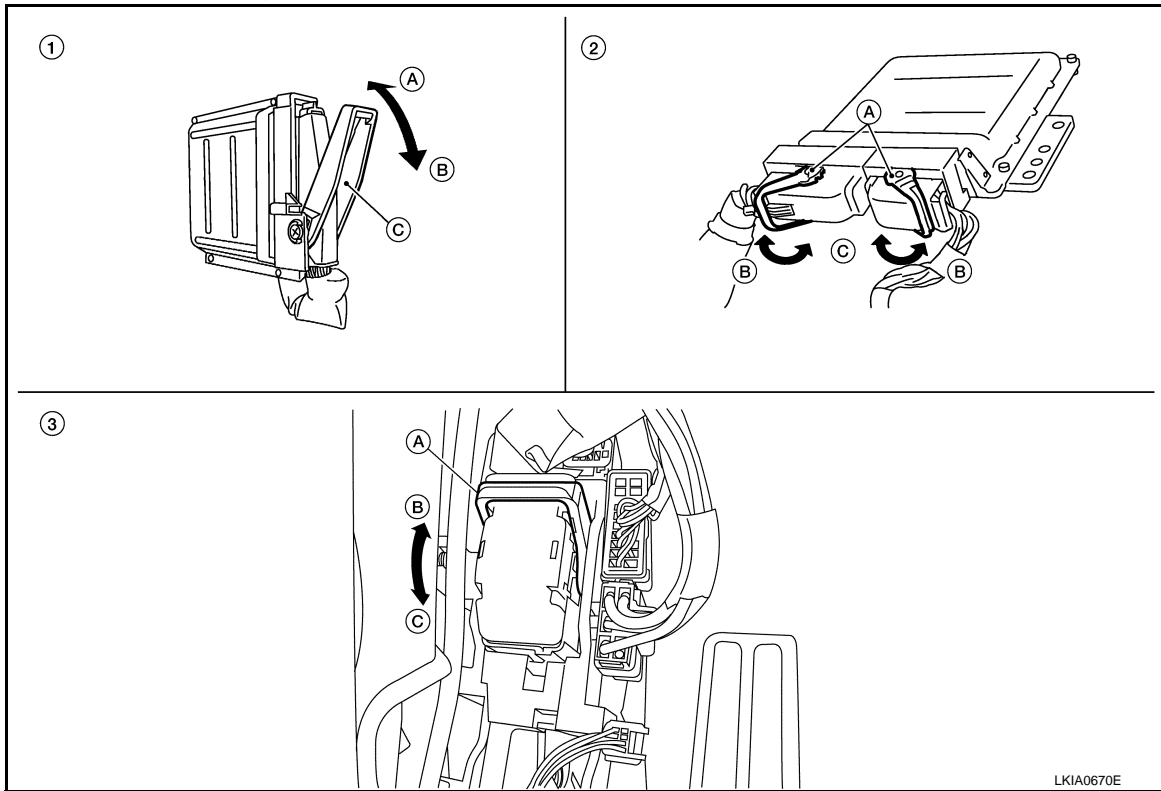
- Lever locking type harness connectors are used on certain control units and control modules such as ECM, ABS actuator and electric unit (control unit), etc.
- Lever locking type harness connectors are also used on super multiple junction (SMJ) connectors.
- Always confirm the lever is fully locked in place by moving the lever as far as it will go to ensure full connection.

CAUTION:

COMPONENT PARTS

< SYSTEM DESCRIPTION >

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.



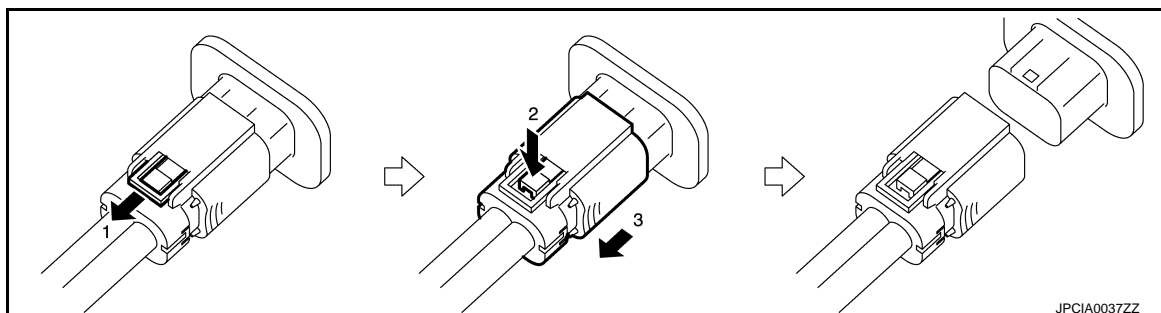
- | | | |
|-----------------------------------|----------------------------------|------------------|
| 1. Control unit with single lever | 2. Control unit with dual levers | 3. SMJ connector |
| A. Fasten | A. Levers | A. Lever |
| B. Loosen | B. Fasten | B. Fasten |
| C. Lever | C. Loosen | C. Loosen |

HIGH VOLTAGE HARNESS CONNECTOR (2-STEP TYPE, 3-STEP TYPE)

- 2-step type and 3-step type connectors are used for specific high voltage parts.
- For secure connection, check that the slider is pressed all the way when connecting the high voltage connector.

2-Step Type

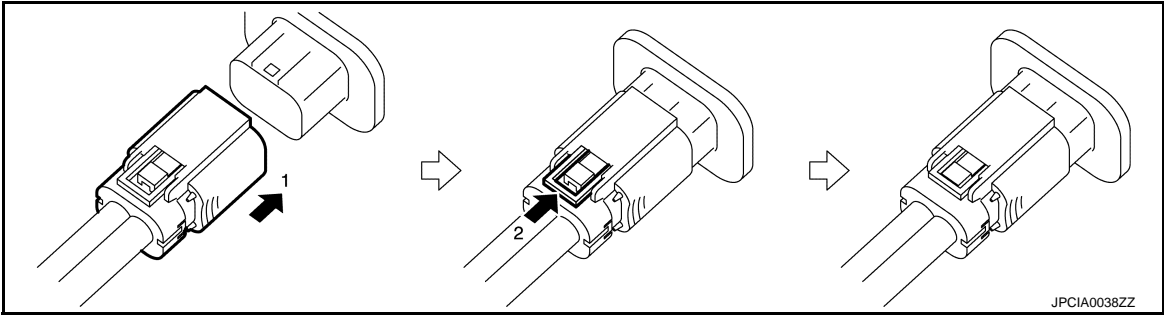
DISCONNECT



COMPONENT PARTS

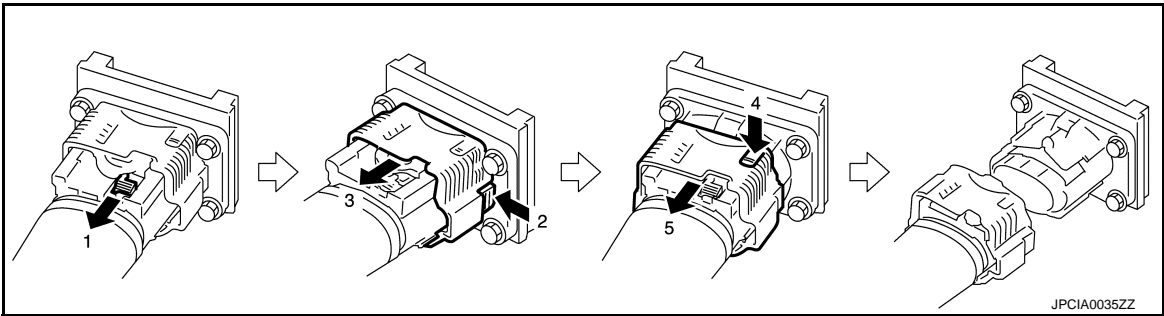
< SYSTEM DESCRIPTION >

CONNECT

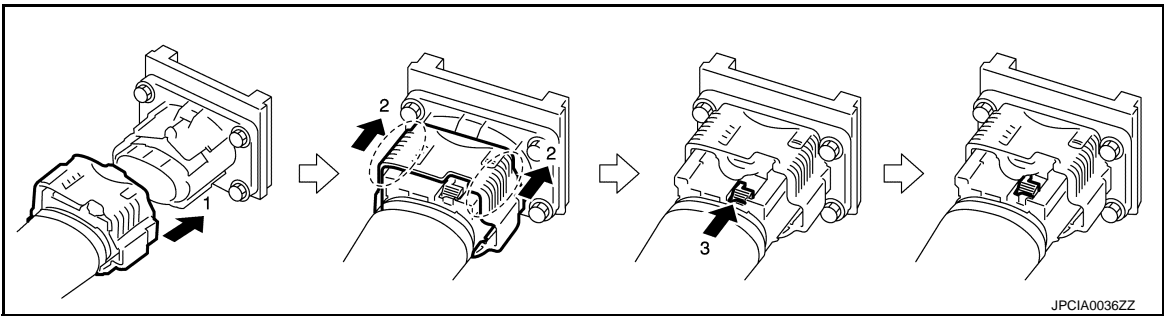


3-Step Type

DISCONNECT



CONNECT



Standardized Relay

INFOID:0000000007632696

NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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

	NORMAL OPEN RELAY	NORMAL CLOSED RELAY	MIXED TYPE RELAY
SW 1 "OFF"			
SW 1 "ON"			

SEL881H

COMPONENT PARTS

< SYSTEM DESCRIPTION >

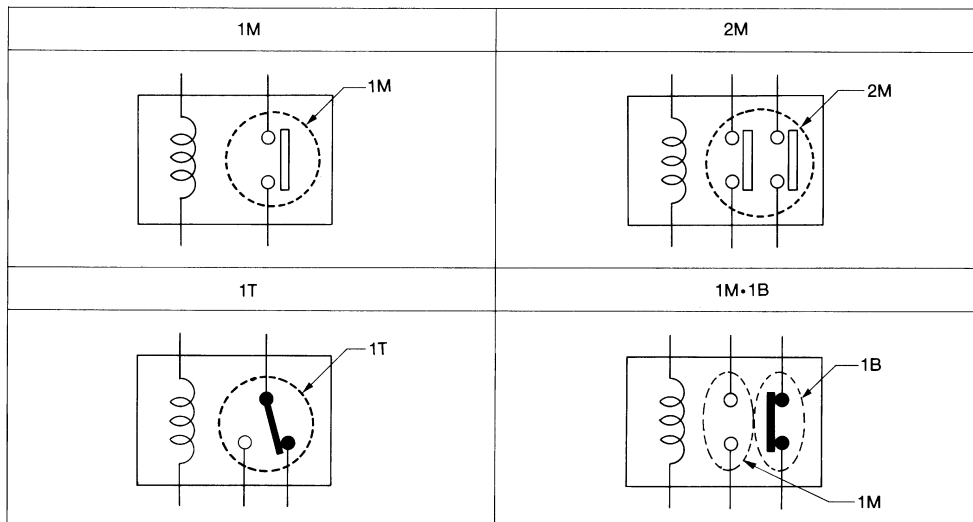
TYPE OF STANDARDIZED RELAYS

1M 1 Make

2M 2 Make

1T 1 Transfer

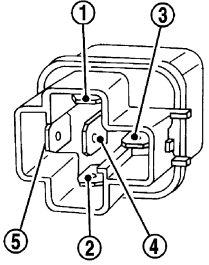
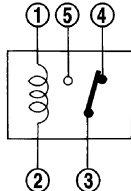
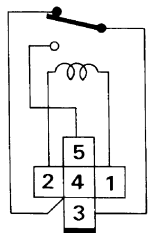
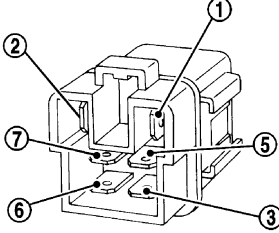
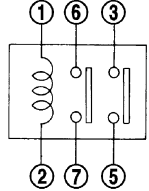
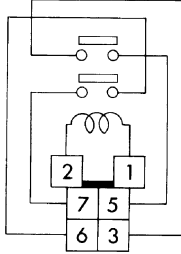
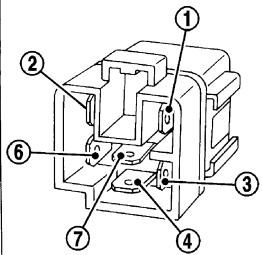
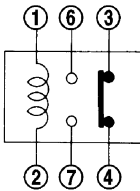
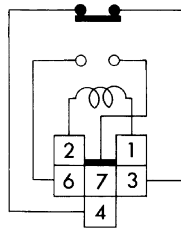
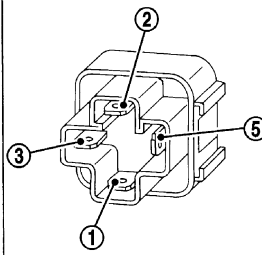
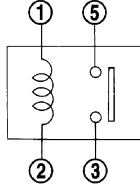
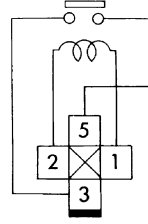
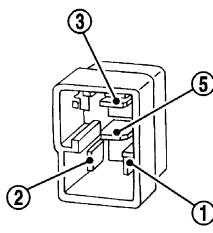
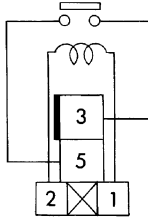
1M•1B 1 Make 1 Break



SEL882H

COMPONENT PARTS

< SYSTEM DESCRIPTION >

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.

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< WIRING DIAGRAM >

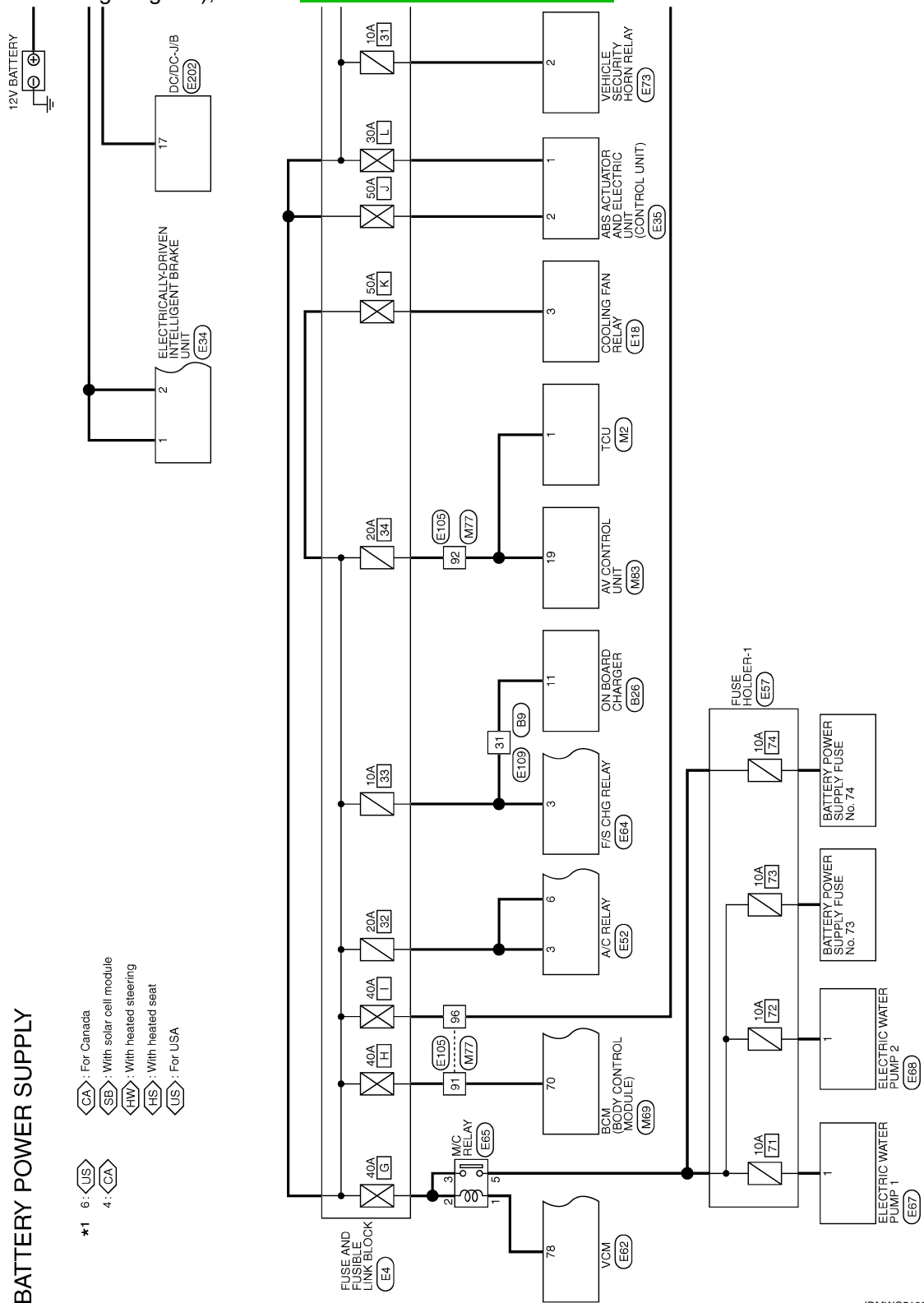
WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

Wiring Diagram - BATTERY POWER SUPPLY -

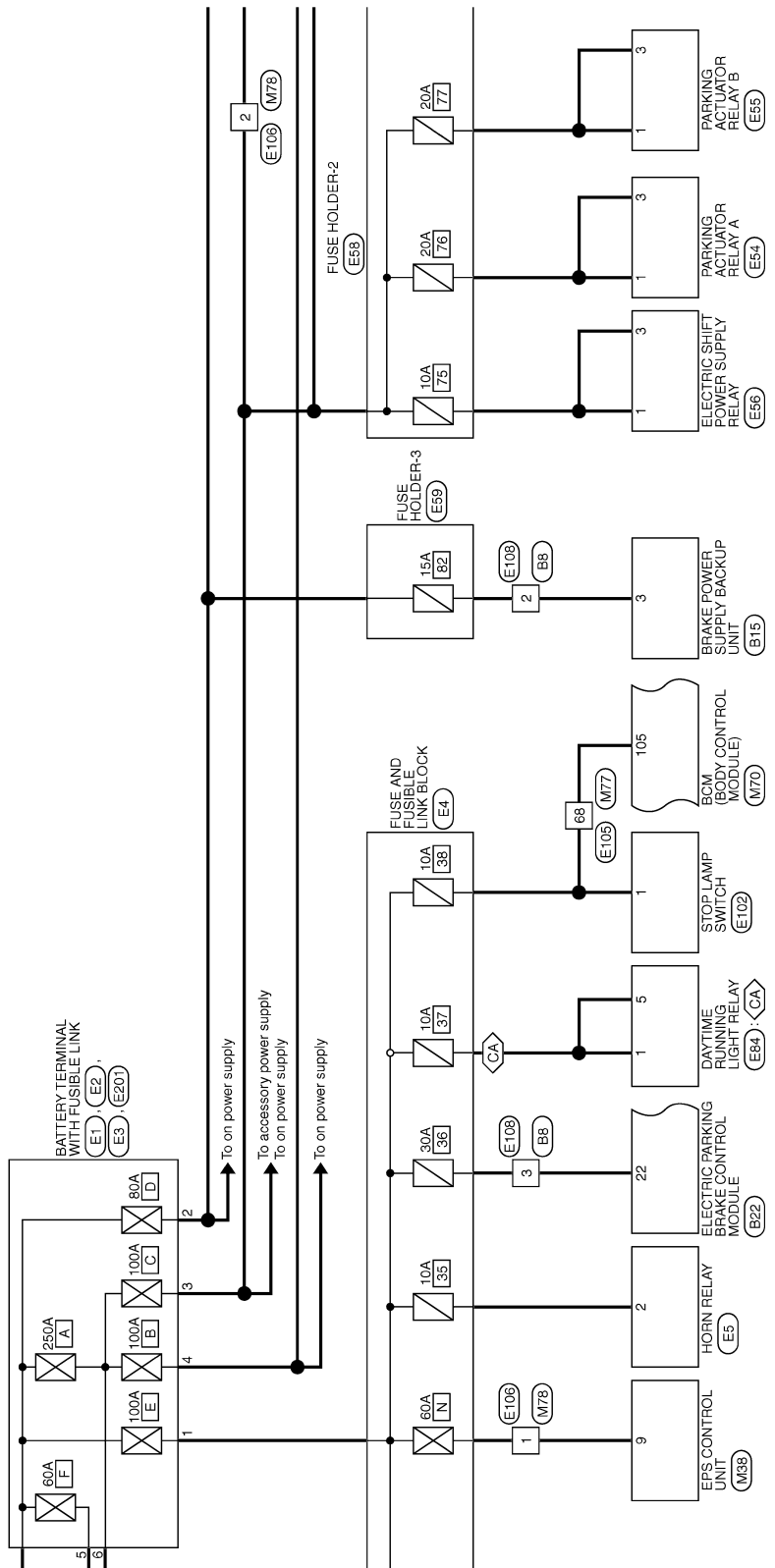
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For connector terminal arrangements, harness layouts, and alphabets in a (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).



POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

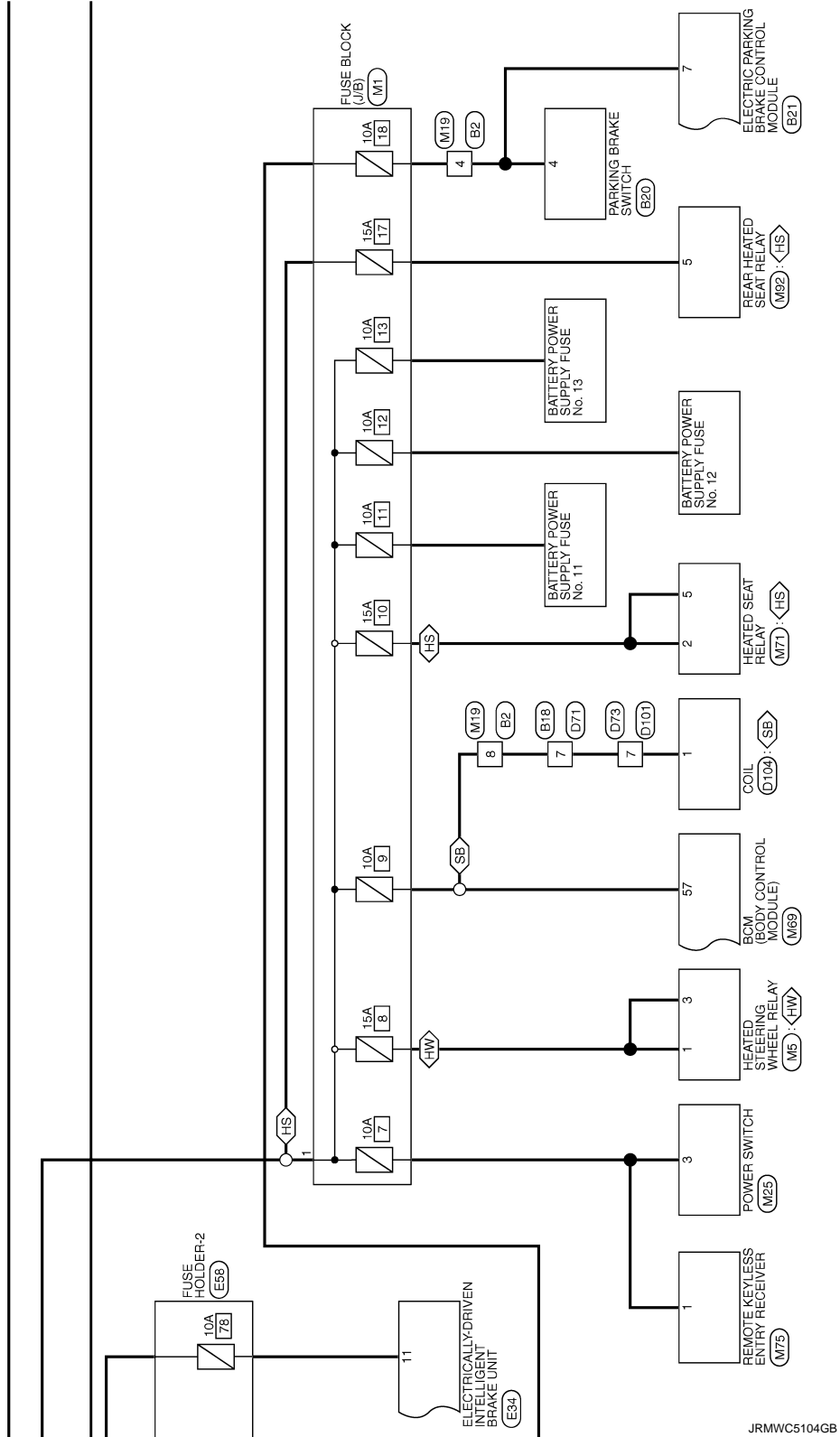


JRMWC5103GB

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POWER SUPPLY ROUTING CIRCUIT

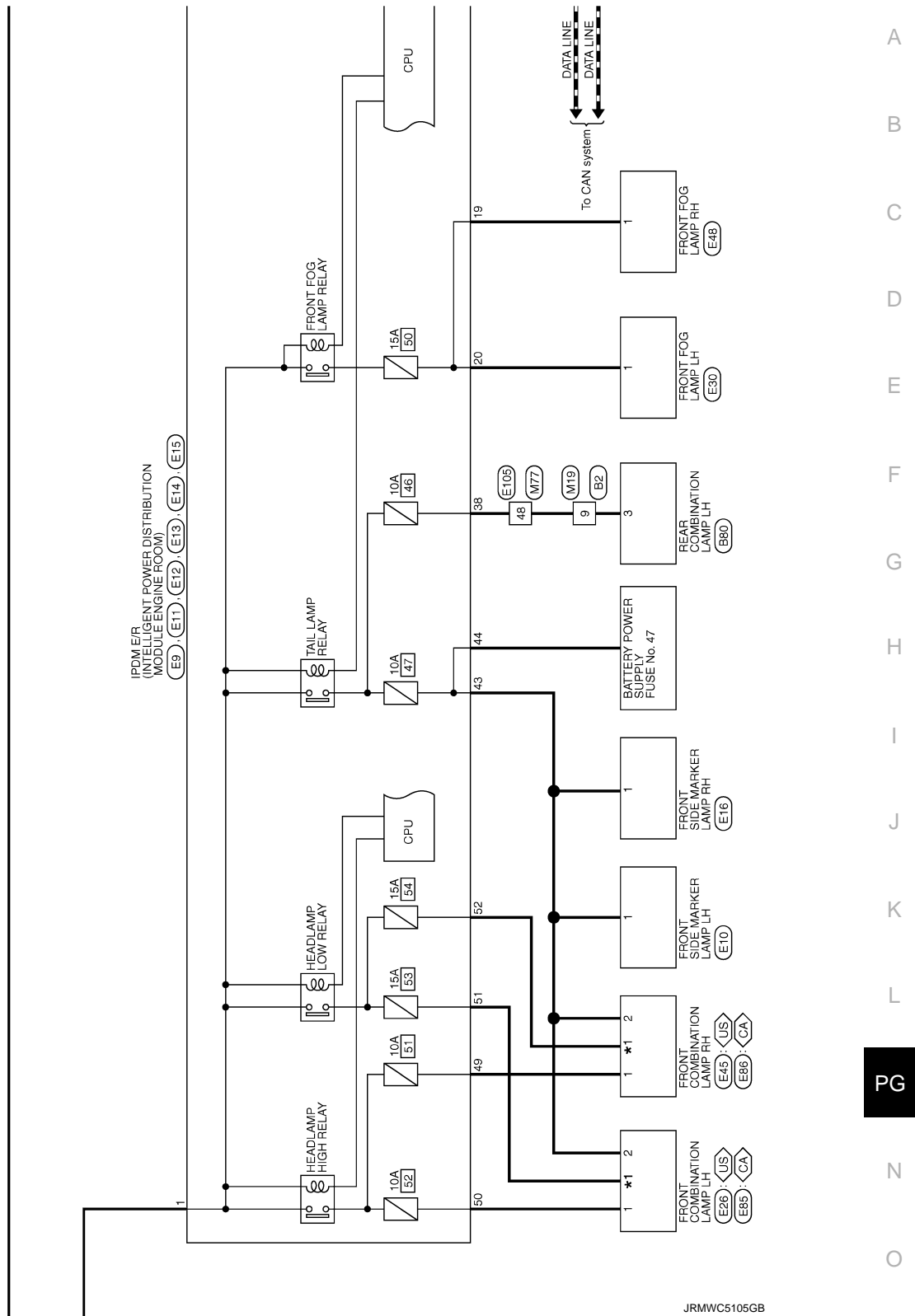
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JRMWC5104GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

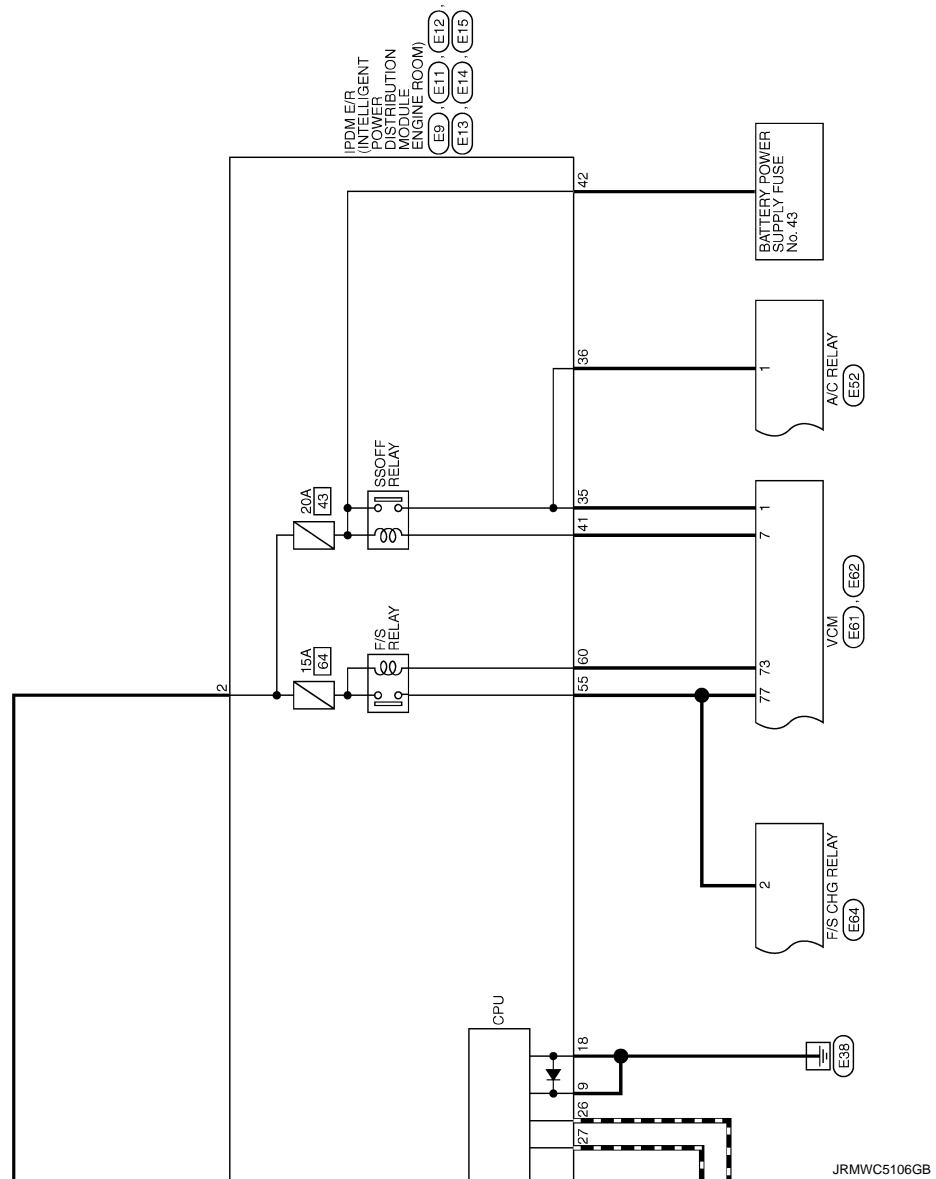


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POWER SUPPLY ROUTING CIRCUIT

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


POWER SUPPLY ROUTING CIRCUIT

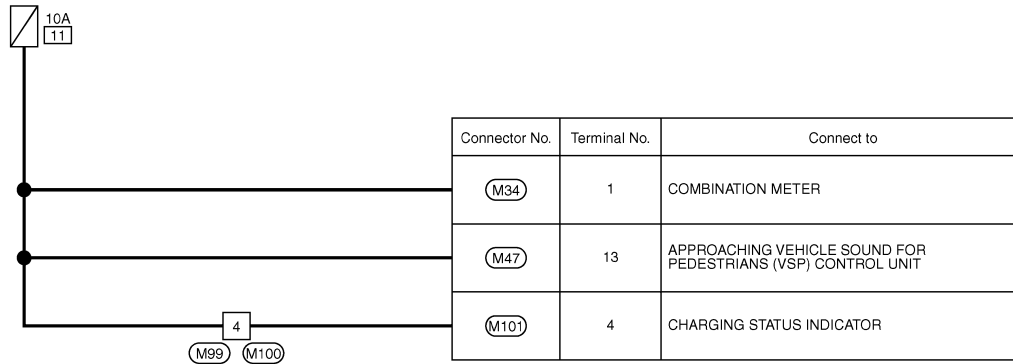
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.11 -

INFOID:000000007632698

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

BATTERY POWER SUPPLY FUSE No. 11



2010/10/29


JCMWA6958GB

POWER SUPPLY ROUTING CIRCUIT

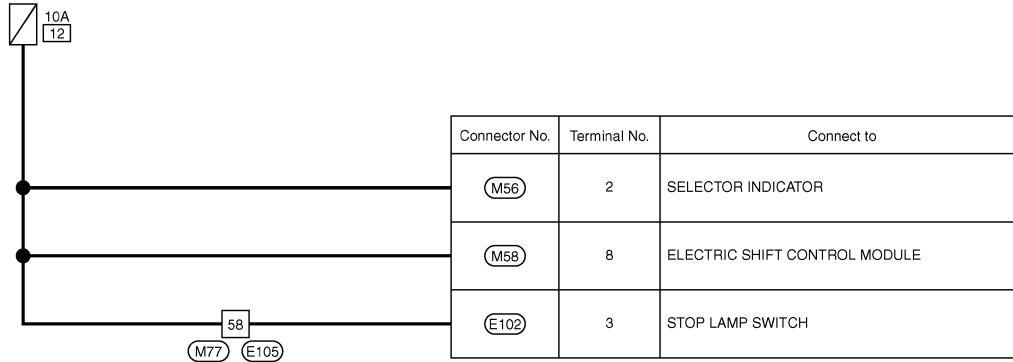
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.12 -

INFOID:000000007632699

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

BATTERY POWER SUPPLY FUSE No. 12



2010/10/29


JCMWA6960GB

POWER SUPPLY ROUTING CIRCUIT


< WIRING DIAGRAM >

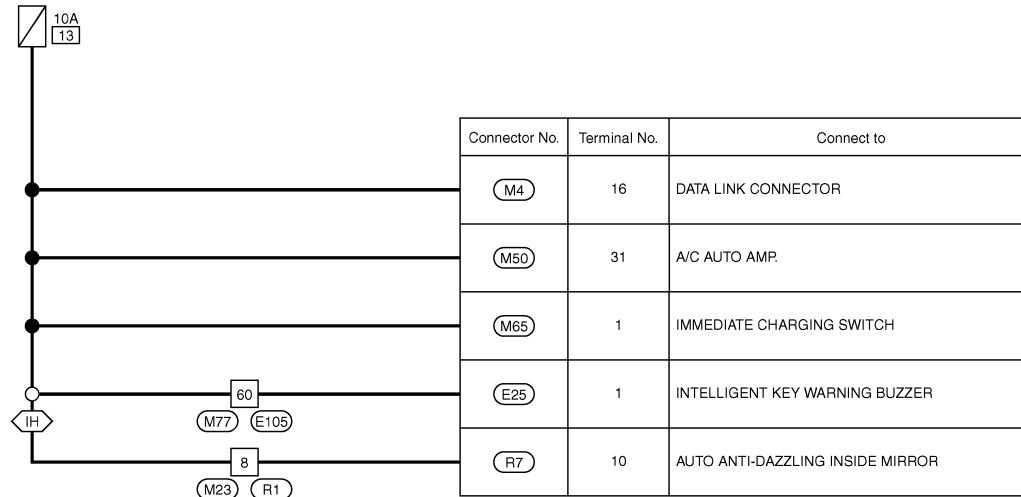
Wiring Diagram - BATTERY POWER SUPPLY FUSE No.13 -

INFOID:000000007632700

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

BATTERY POWER SUPPLY FUSE No. 13

 : With integrated homelink transmitter



2010/10/29


JCMWA6963GB

POWER SUPPLY ROUTING CIRCUIT

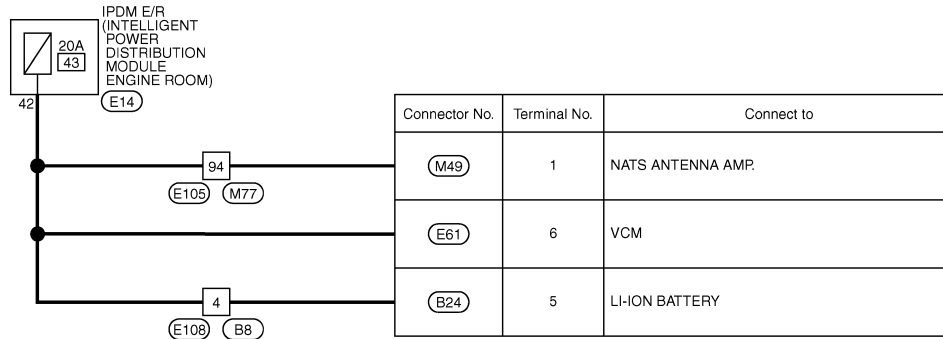
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.43 -

INFOID:000000007632701

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

BATTERY POWER SUPPLY FUSE No. 43



2010/10/29


JCMWA6967GB

POWER SUPPLY ROUTING CIRCUIT

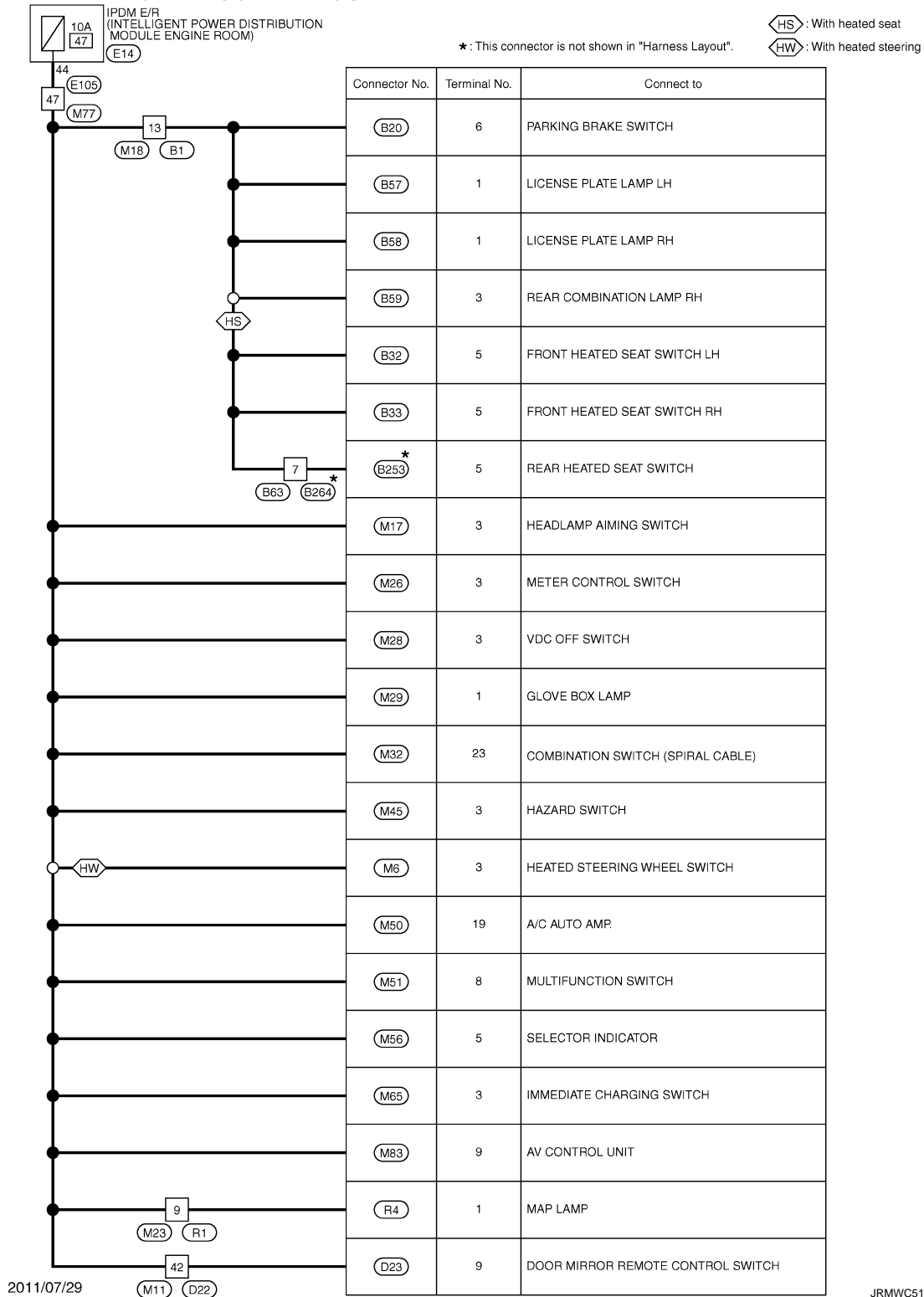
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.47 -

INFOID:000000007632702

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

BATTERY POWER SUPPLY FUSE No. 47




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POWER SUPPLY ROUTING CIRCUIT

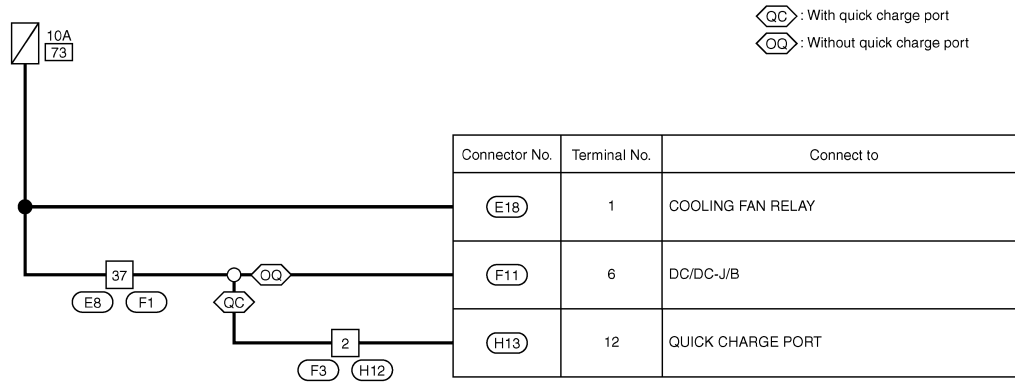
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.73 -

INFOID:000000007632703

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

BATTERY POWER SUPPLY FUSE No. 73



2010/10/29


JCMWA6976GB

POWER SUPPLY ROUTING CIRCUIT

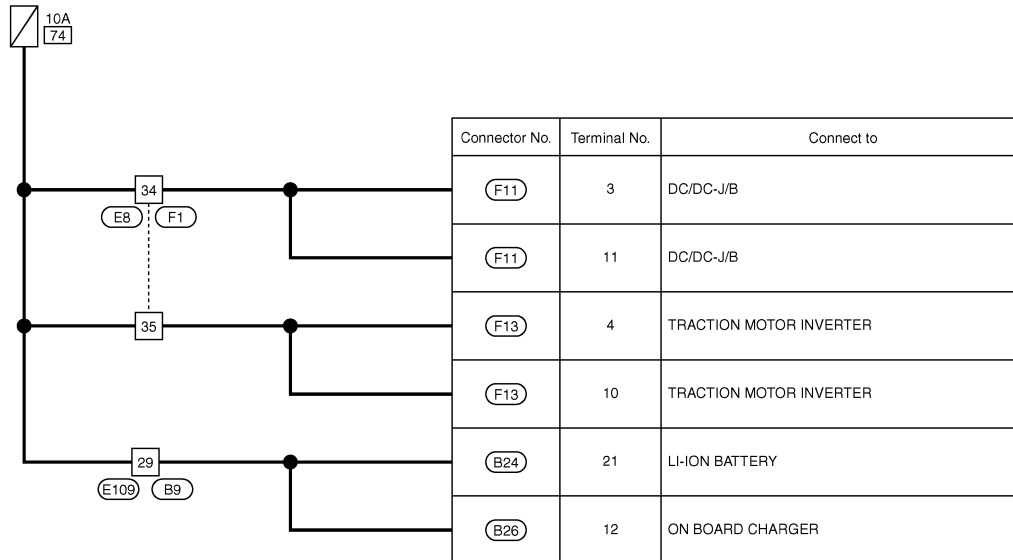
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.74 -

INFOID:000000007632704

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

BATTERY POWER SUPPLY FUSE No. 74



2010/10/29


JCMWA6979GB

POWER SUPPLY ROUTING CIRCUIT

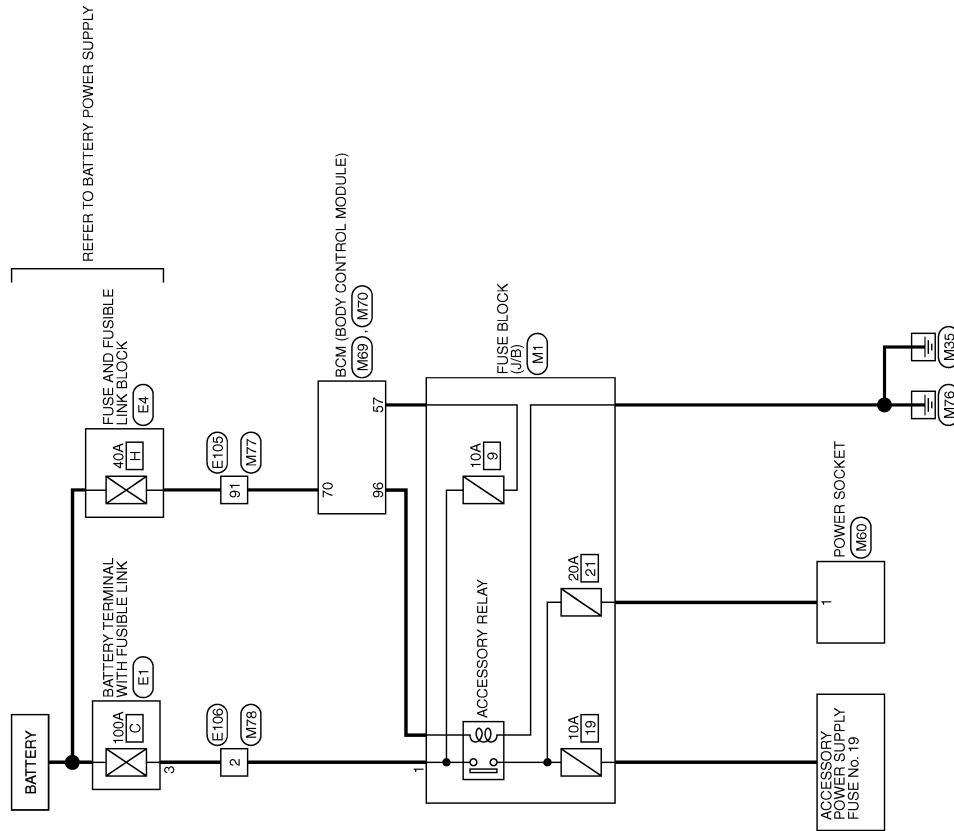
< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY -

INFOID:000000007632705

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

ACCESSORY POWER SUPPLY



2010/10/29


JCMWA6982GB

POWER SUPPLY ROUTING CIRCUIT

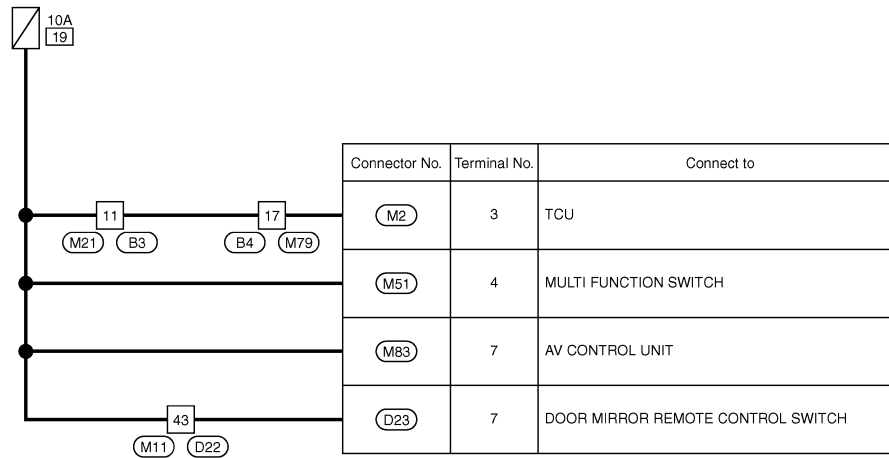
< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No.19 -

INFOID:000000007632706

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

ACCESSORY POWER SUPPLY FUSE No. 19



2010/10/29


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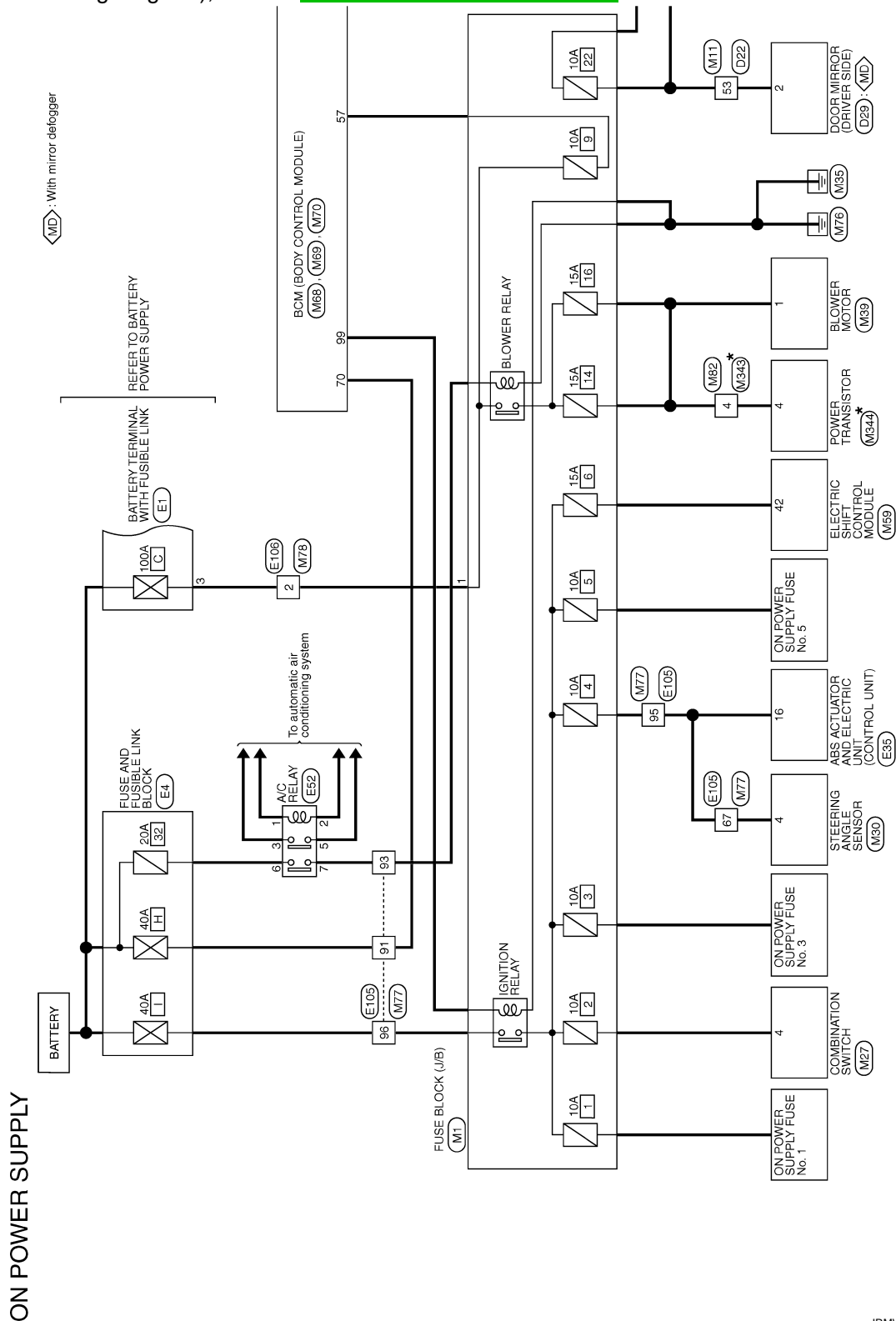
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ON POWER SUPPLY -

INFOID:000000007632707

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

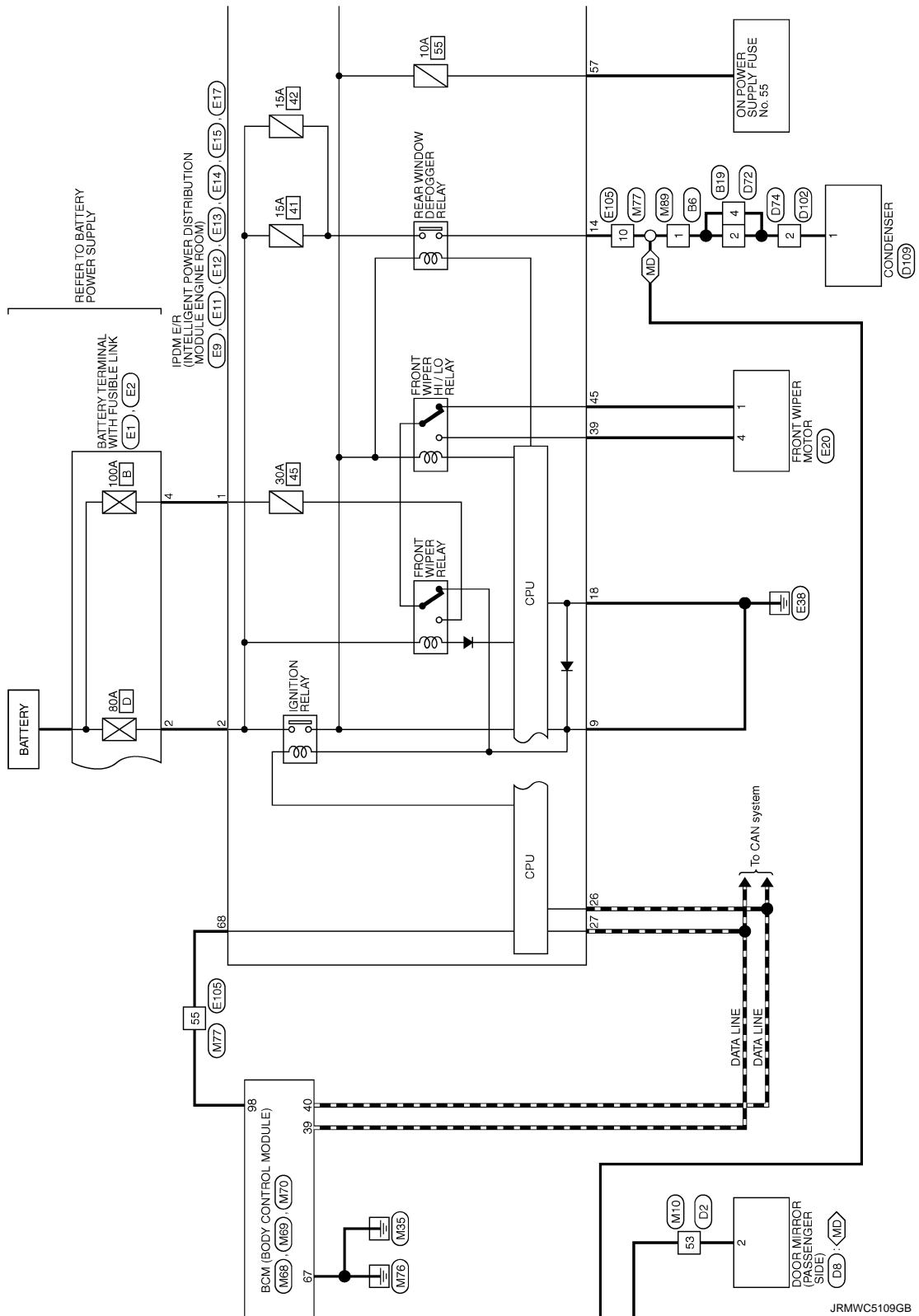


2011/07/29

JRMWC5108GB

POWER SUPPLY ROUTING CIRCUIT

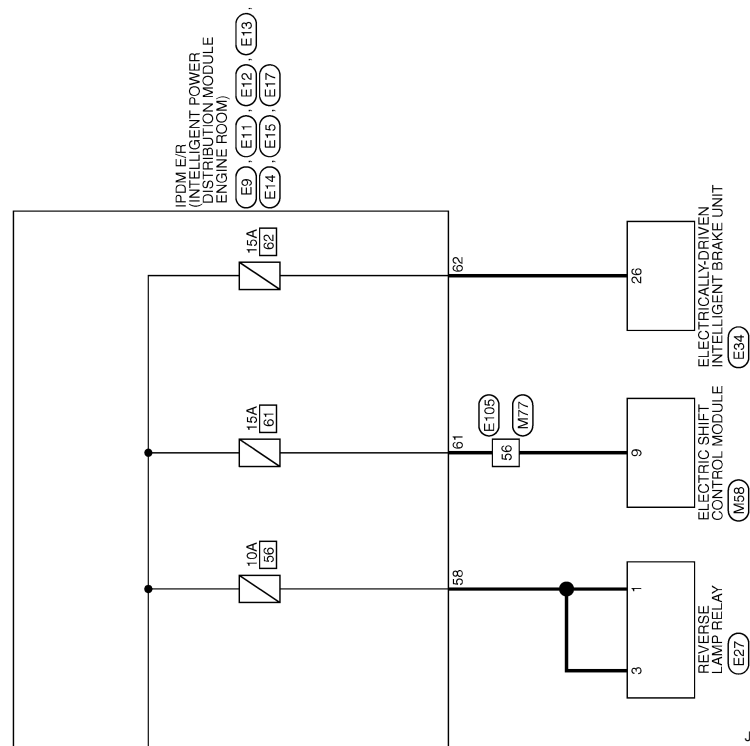
< WIRING DIAGRAM >



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >




POWER SUPPLY ROUTING CIRCUIT

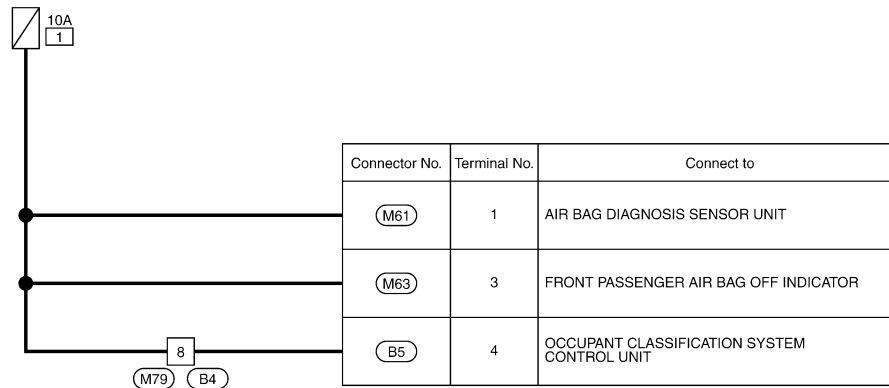
< WIRING DIAGRAM >

Wiring Diagram - ON POWER SUPPLY FUSE No.1 -

INFOID:000000007828173

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

ON POWER SUPPLY FUSE No. 1



2011/07/29


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POWER SUPPLY ROUTING CIRCUIT



< WIRING DIAGRAM >

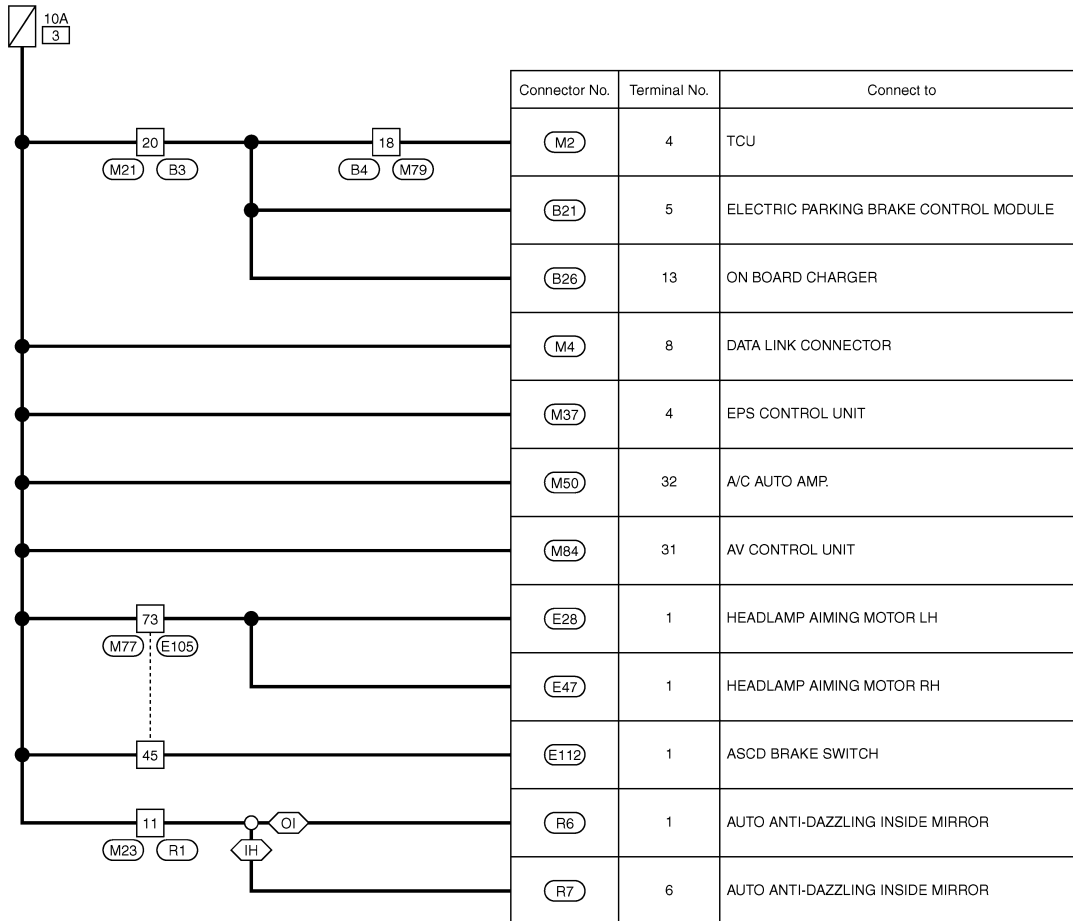
Wiring Diagram - ON POWER SUPPLY FUSE No.3 -

INFOID:000000007632708

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

ON POWER SUPPLY FUSE No. 3

 : With integrated homelink transmitter
 : Without integrated homelink transmitter



2010/10/29


JCMWA6998GB

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

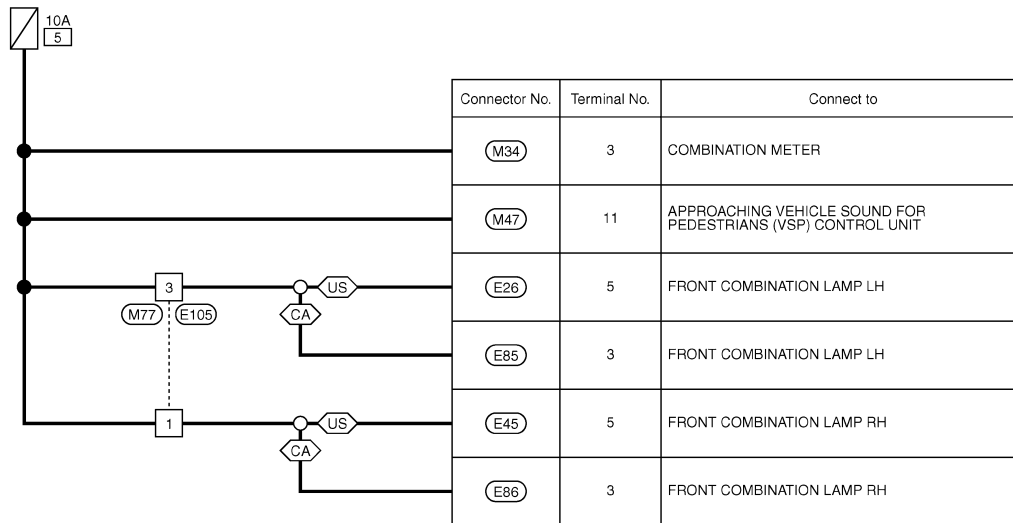
Wiring Diagram - ON POWER SUPPLY FUSE No.5 -

INFOID:000000007632709

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

ON POWER SUPPLY FUSE No. 5

 : For USA
 : For Canada



2011/07/29


JRMWC5112GB

POWER SUPPLY ROUTING CIRCUIT

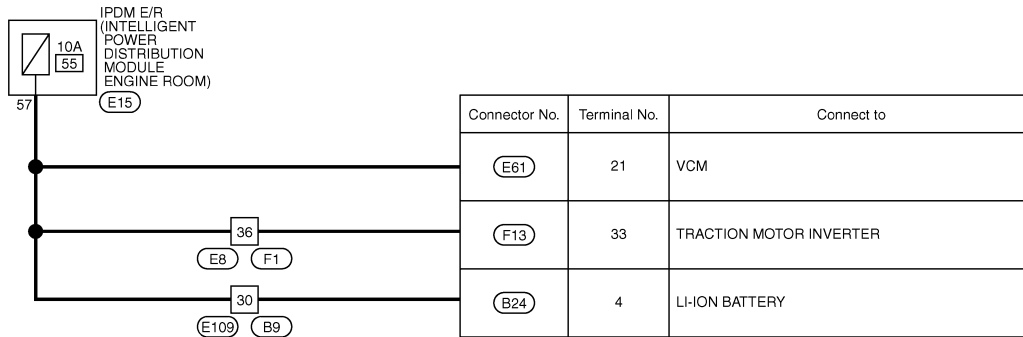
< WIRING DIAGRAM >

Wiring Diagram - ON POWER SUPPLY FUSE No.55 -

INFOID:000000007632710

For connector terminal arrangements, harness layouts, and alphabets in a  (option abbreviation; if not described in wiring diagram), refer to [GI-12, "Connector Information"](#).

ON POWER SUPPLY FUSE No. 55



2010/10/29

JCMWA7007GB

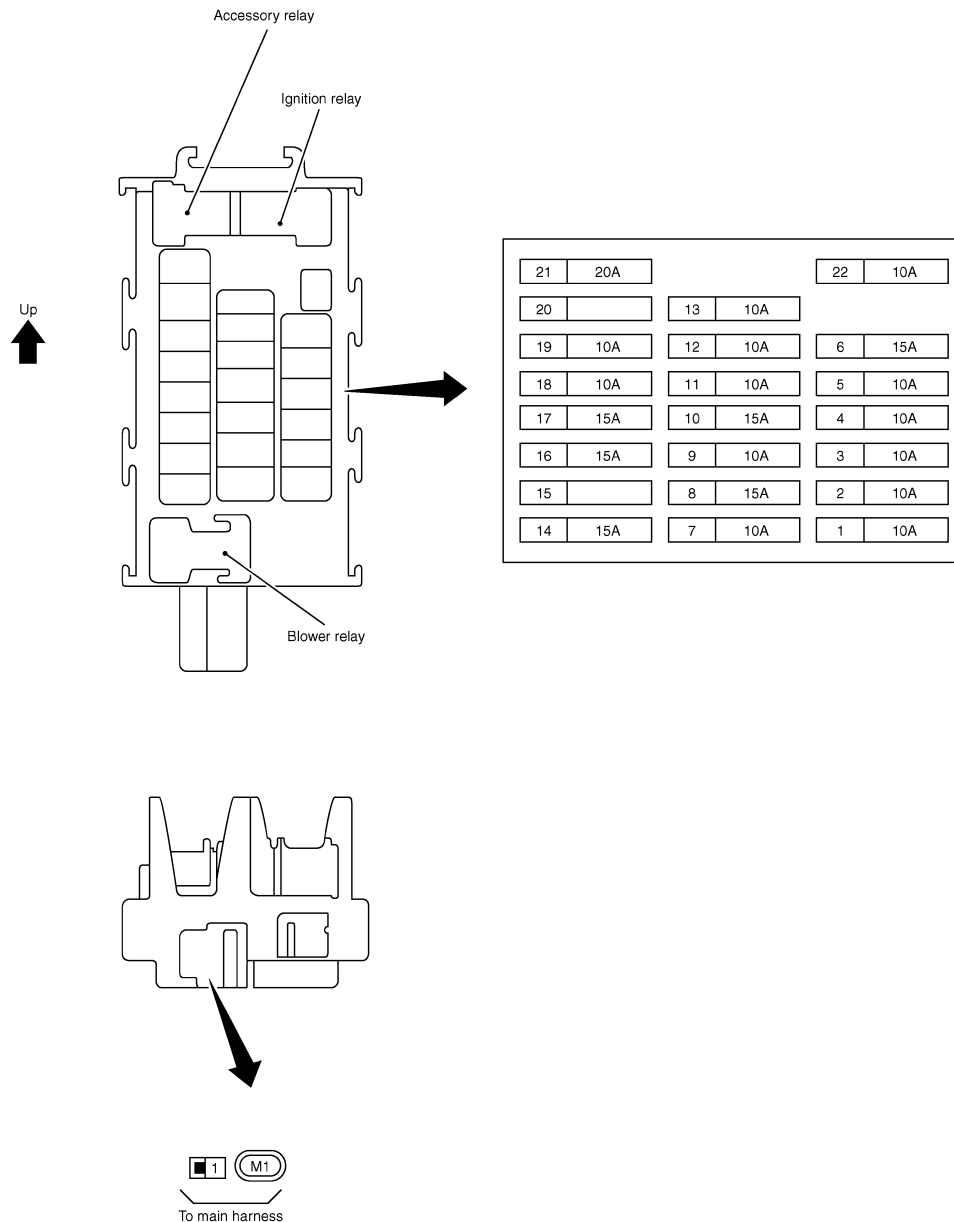
FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:0000000007632711



2011/03/25

JCMWA8500GB

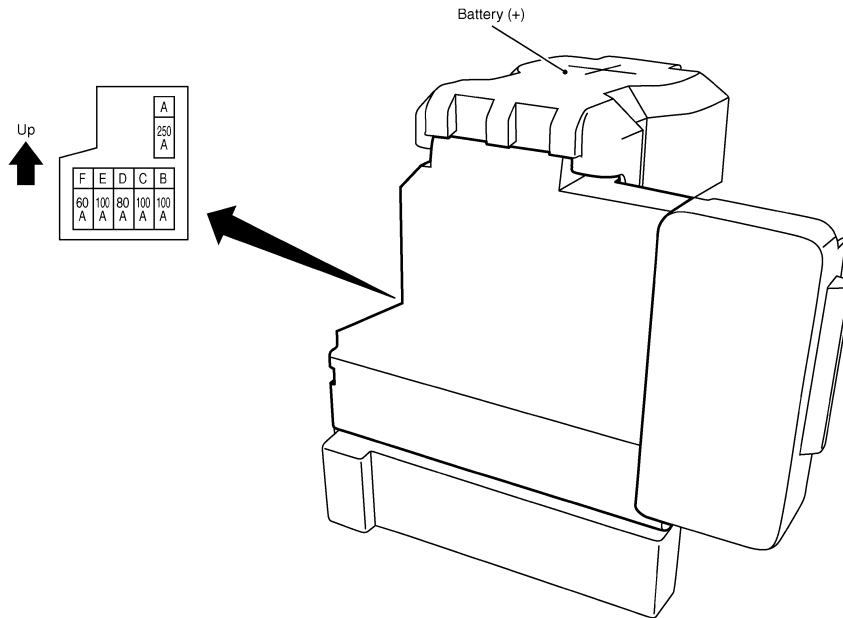
FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

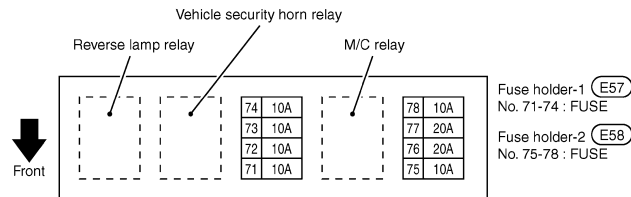
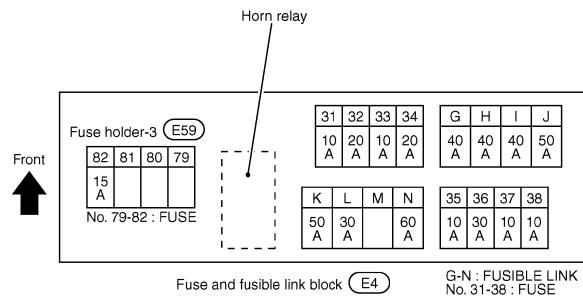
FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement

INFOID:000000007632712



Battery terminal with fusible link (E1) (E2) (E3) (E201)



2011/03/25

JCMWA8501GB

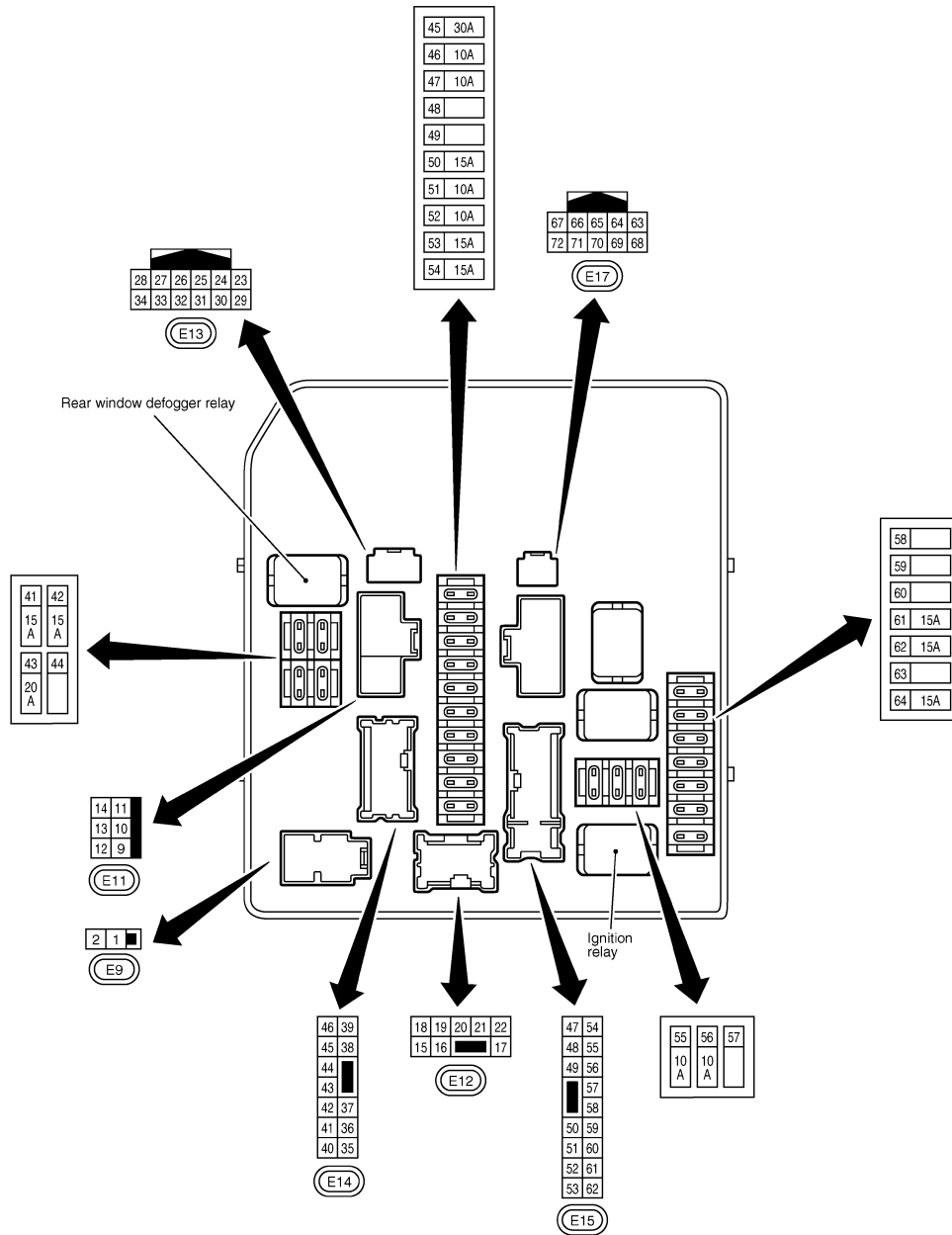
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

Fuse, Connector and Terminal Arrangement

INFOID:000000007632713



2010/10/29

JCMWA7012GB

HARNESS LAYOUT

< WIRING DIAGRAM >






HARNESS LAYOUT

How To Read Harness Layout

INFOID:000000007632714

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

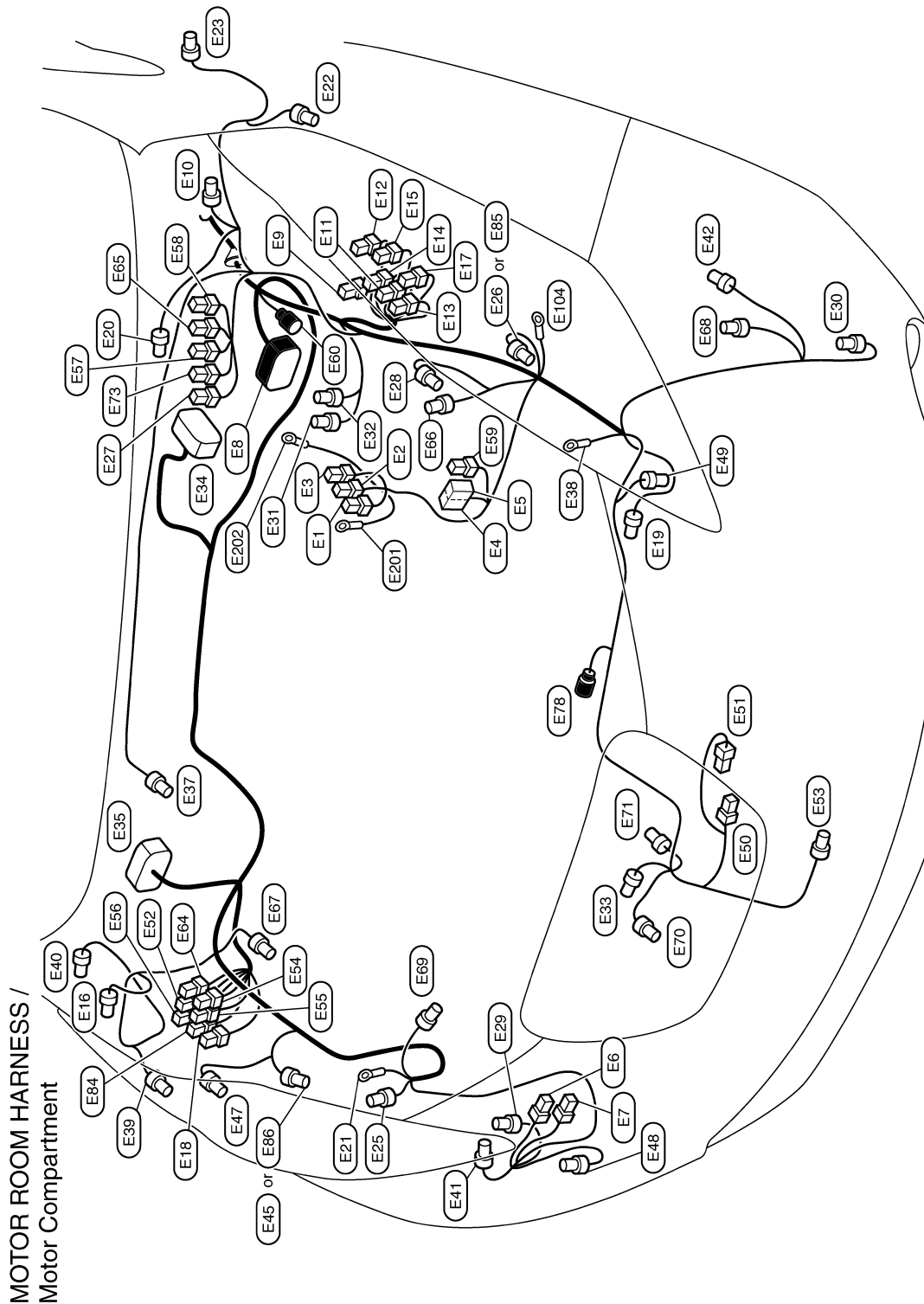
HARNESS LAYOUT

< WIRING DIAGRAM >

Motor Room Harness

INFOID:000000007632716

MOTER COMPARTMENT



2011/07/29

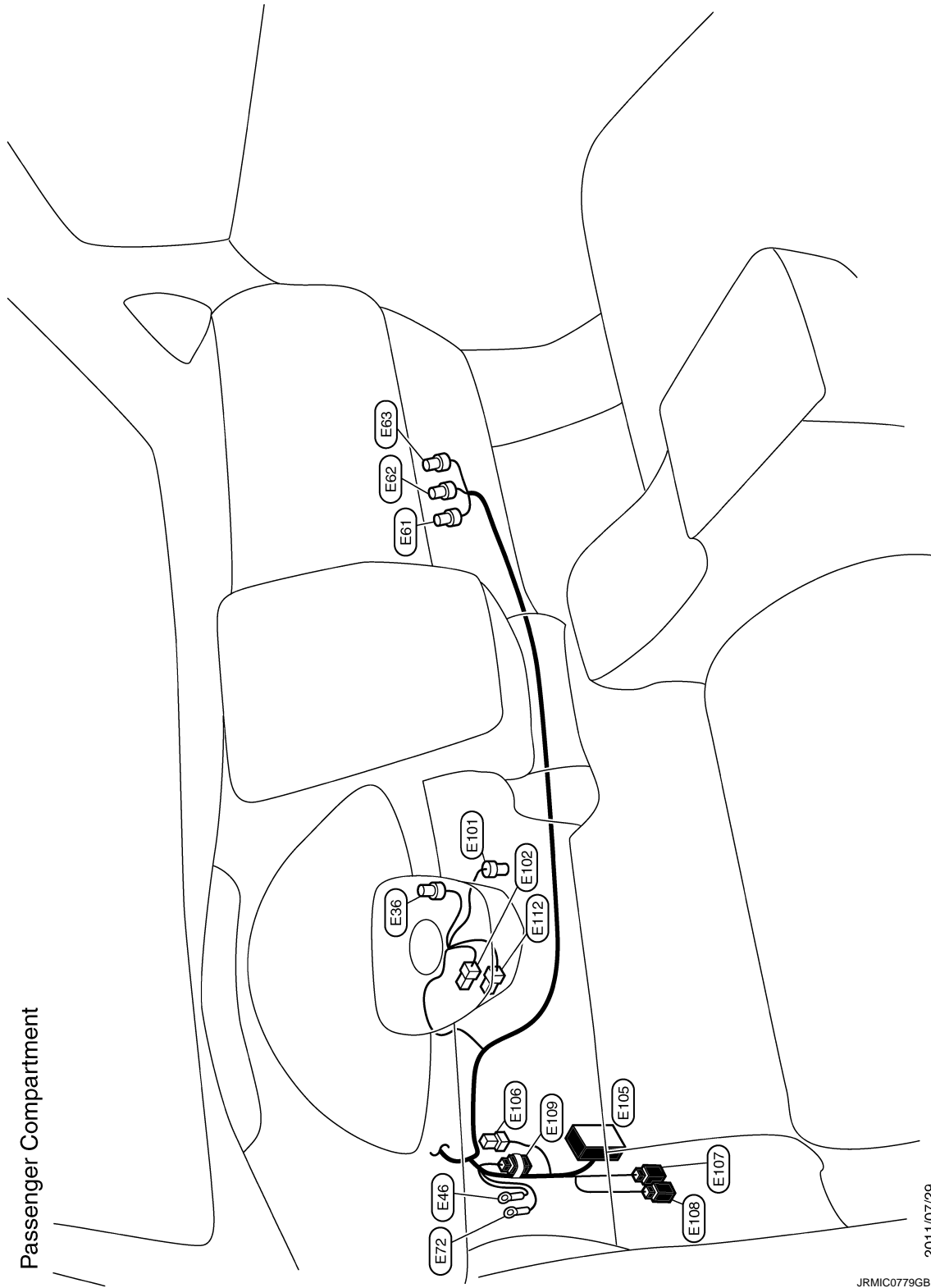
JRMIC0778GB

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HARNESS LAYOUT

< WIRING DIAGRAM >

PASSENGER COMPARTMENT



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2011/07/29

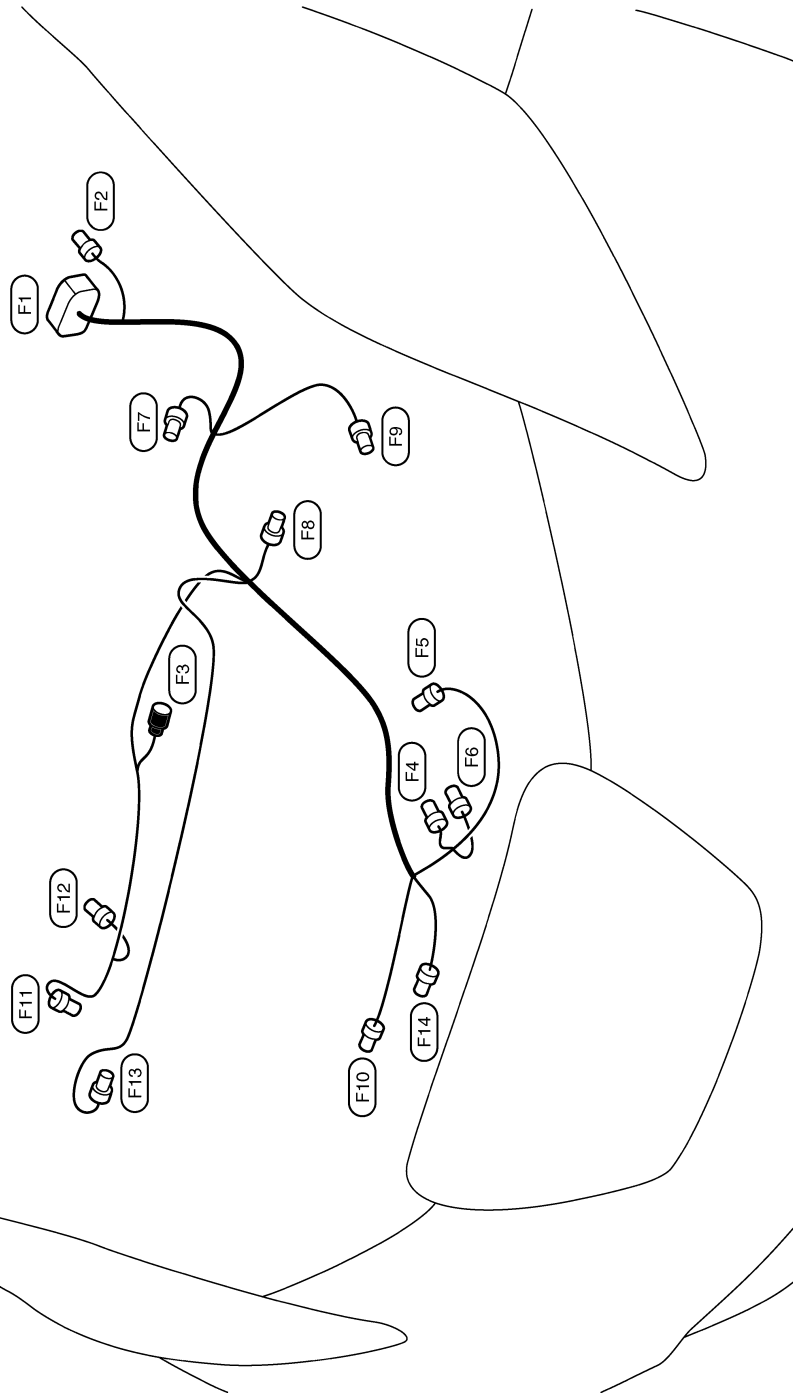
HARNESS LAYOUT

< WIRING DIAGRAM >

Motor Control Harness

INFOID:000000007632717

MOTOR CONTROL HARNESS



2010/10/01

JCMIA0842GB

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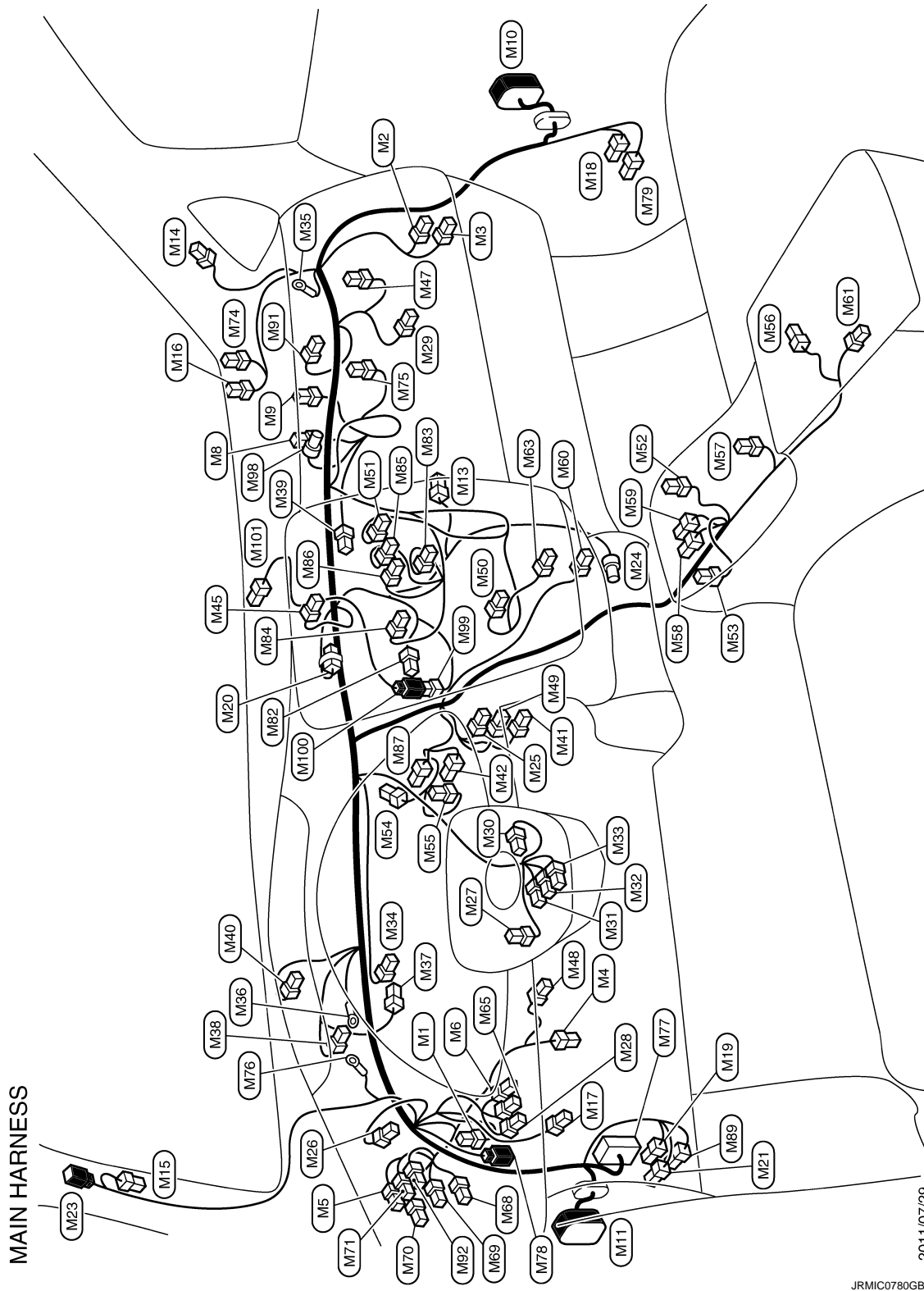
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HARNESS LAYOUT

< WIRING DIAGRAM >

Main Harness

INFOID:000000007632718



HARNESS LAYOUT

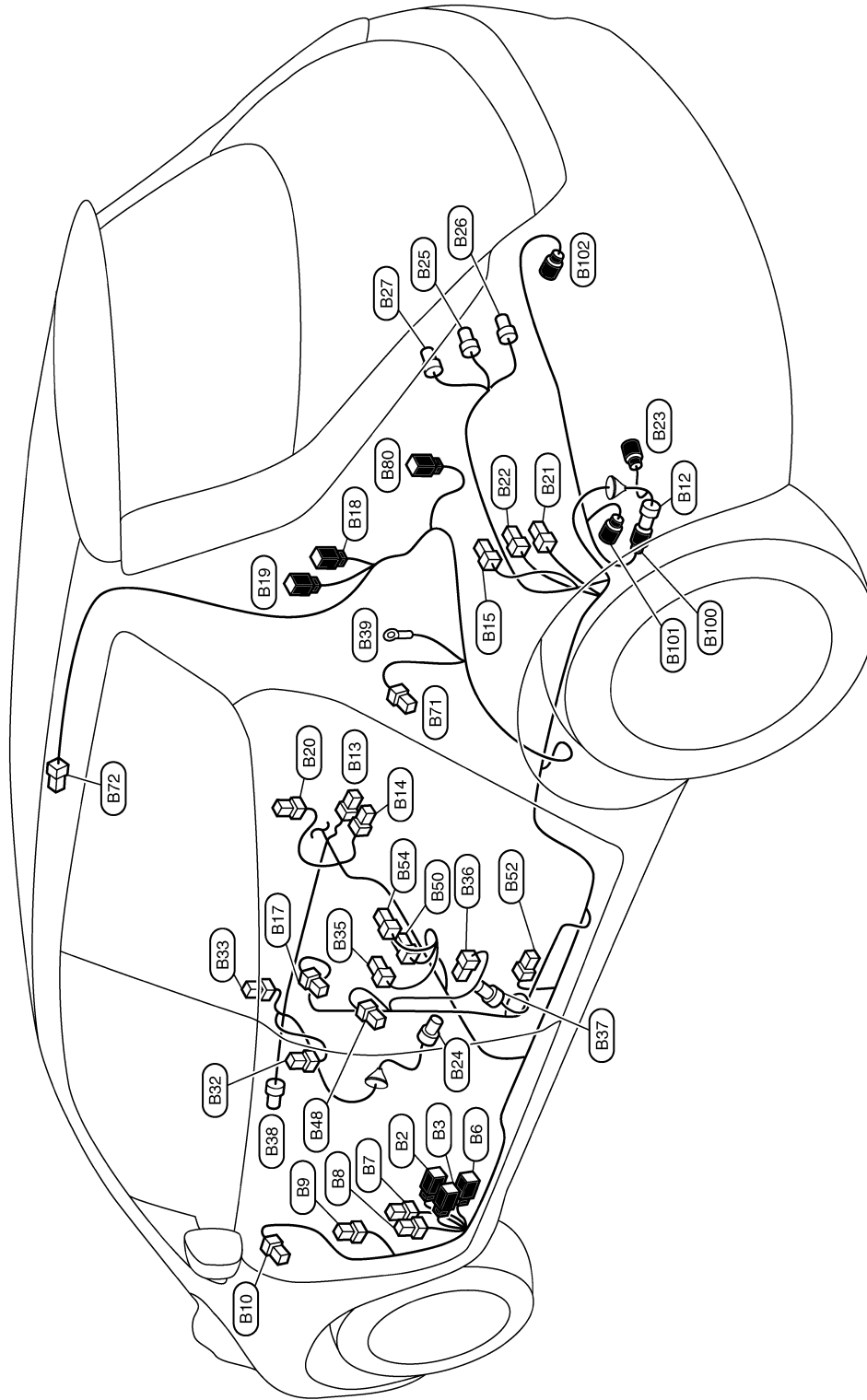
< WIRING DIAGRAM >

Body Harness

INFOID:000000007632719

LH SIDE

BODY HARNESS (LH SIDE)



2011/07/29

JRMIC0781GB

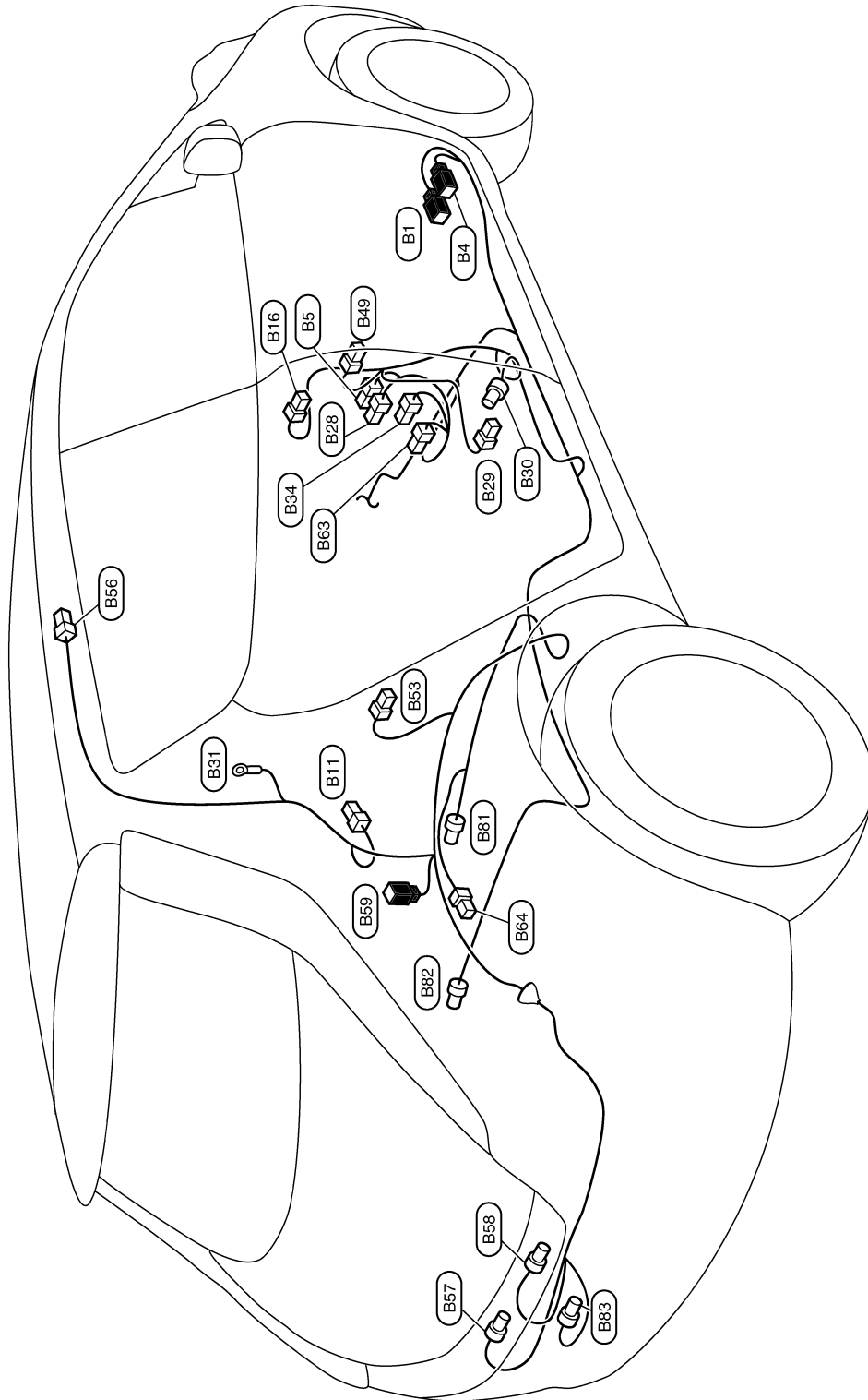
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HARNESS LAYOUT

< WIRING DIAGRAM >

RH SIDE

BODY HARNESS (RH SIDE)



2011/07/29

JRMIC0782GB

HARNESS LAYOUT

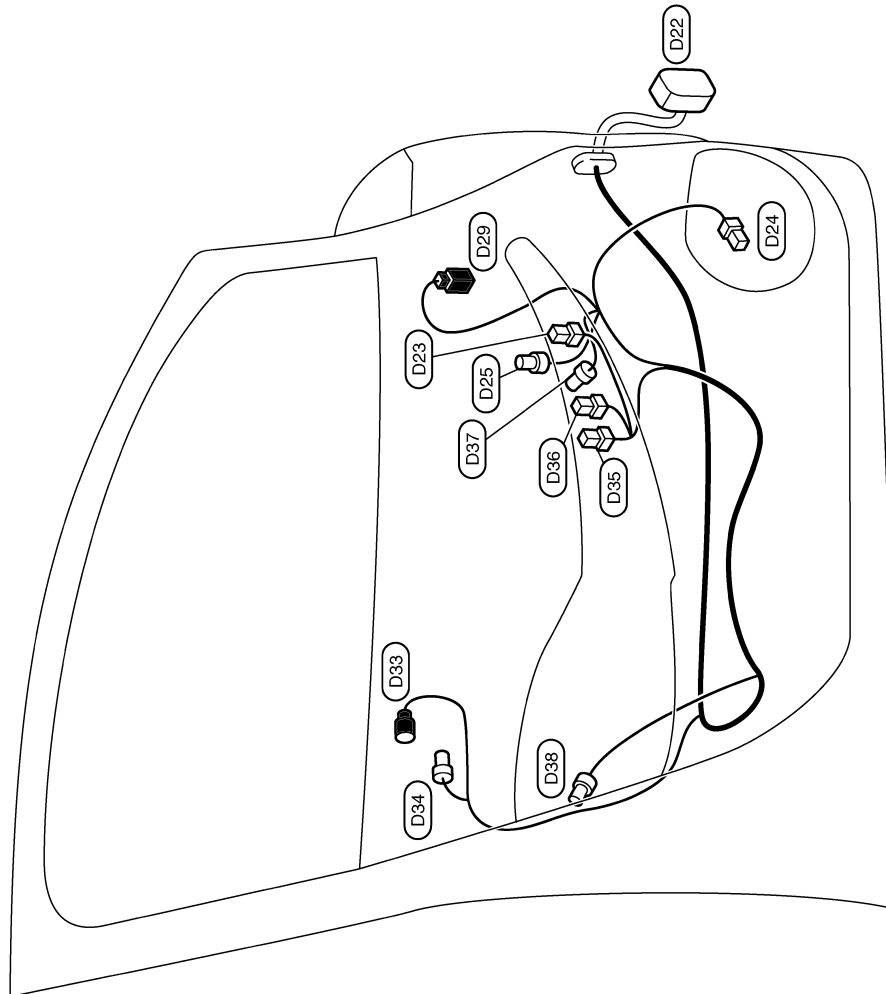
< WIRING DIAGRAM >

Door Harness

INFOID:000000007632721

FRONT DOOR HARNESS (LH SIDE)

FRONT DOOR HARNESS (LH SIDE)



2011/07/29

JRMIC0783GB

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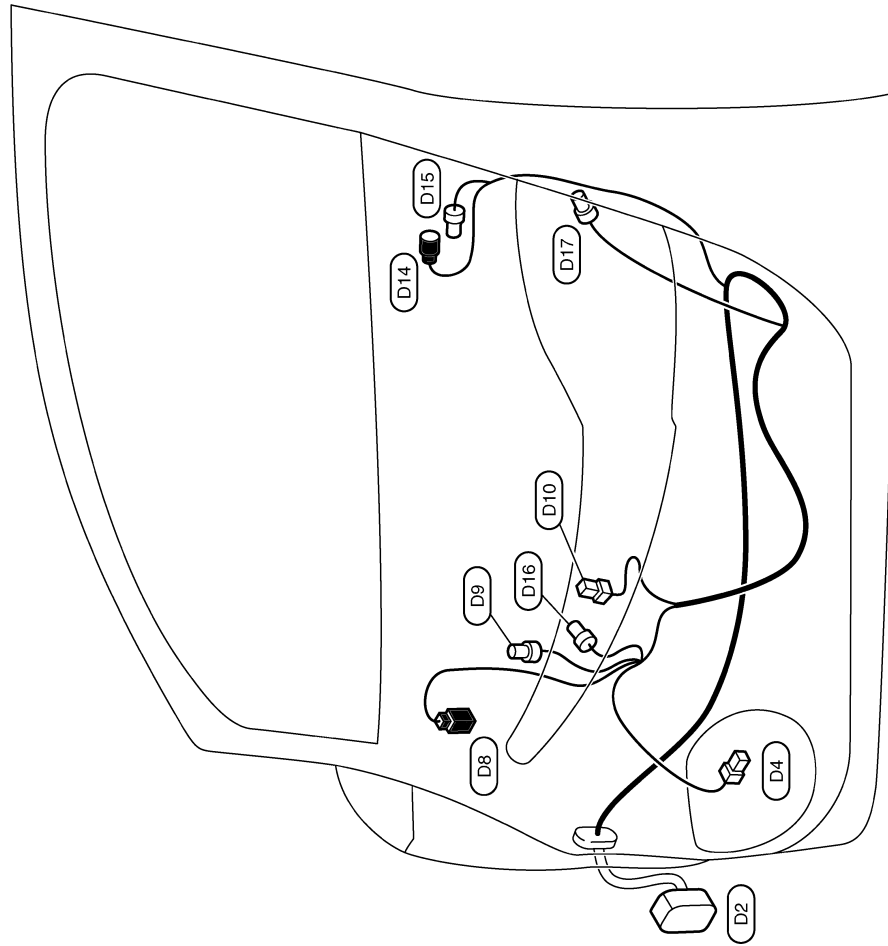
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HARNESS LAYOUT

< WIRING DIAGRAM >

FRONT DOOR HARNESS (RH SIDE)

FRONT DOOR HARNESS (RH SIDE)



2011/07/29

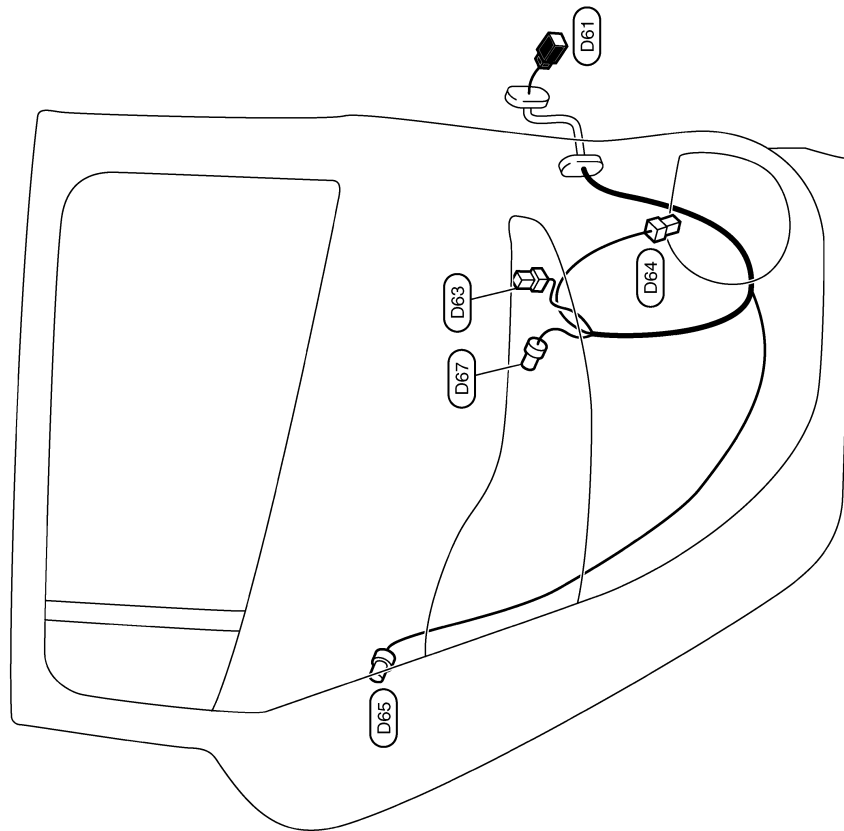
JRMIC0784GB

HARNESS LAYOUT

< WIRING DIAGRAM >

REAR DOOR HARNESS (LH SIDE)

REAR DOOR HARNESS (LH SIDE)



2011/07/29

JRMIC0785GB

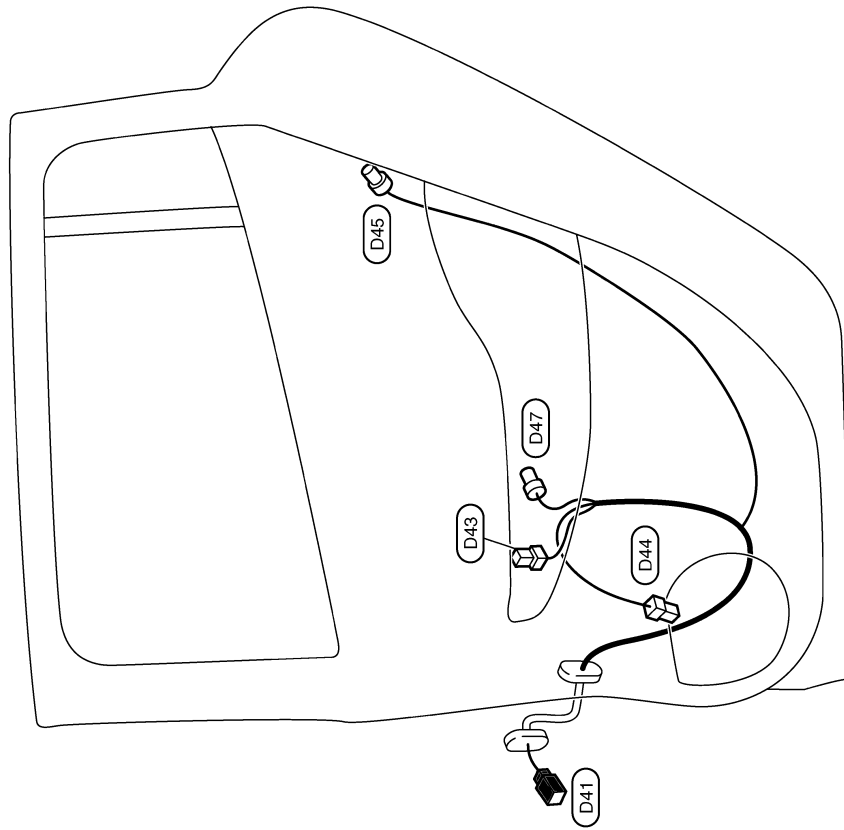
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HARNESS LAYOUT

< WIRING DIAGRAM >

REAR DOOR HARNESS (RH SIDE)

REAR DOOR HARNESS (RH SIDE)

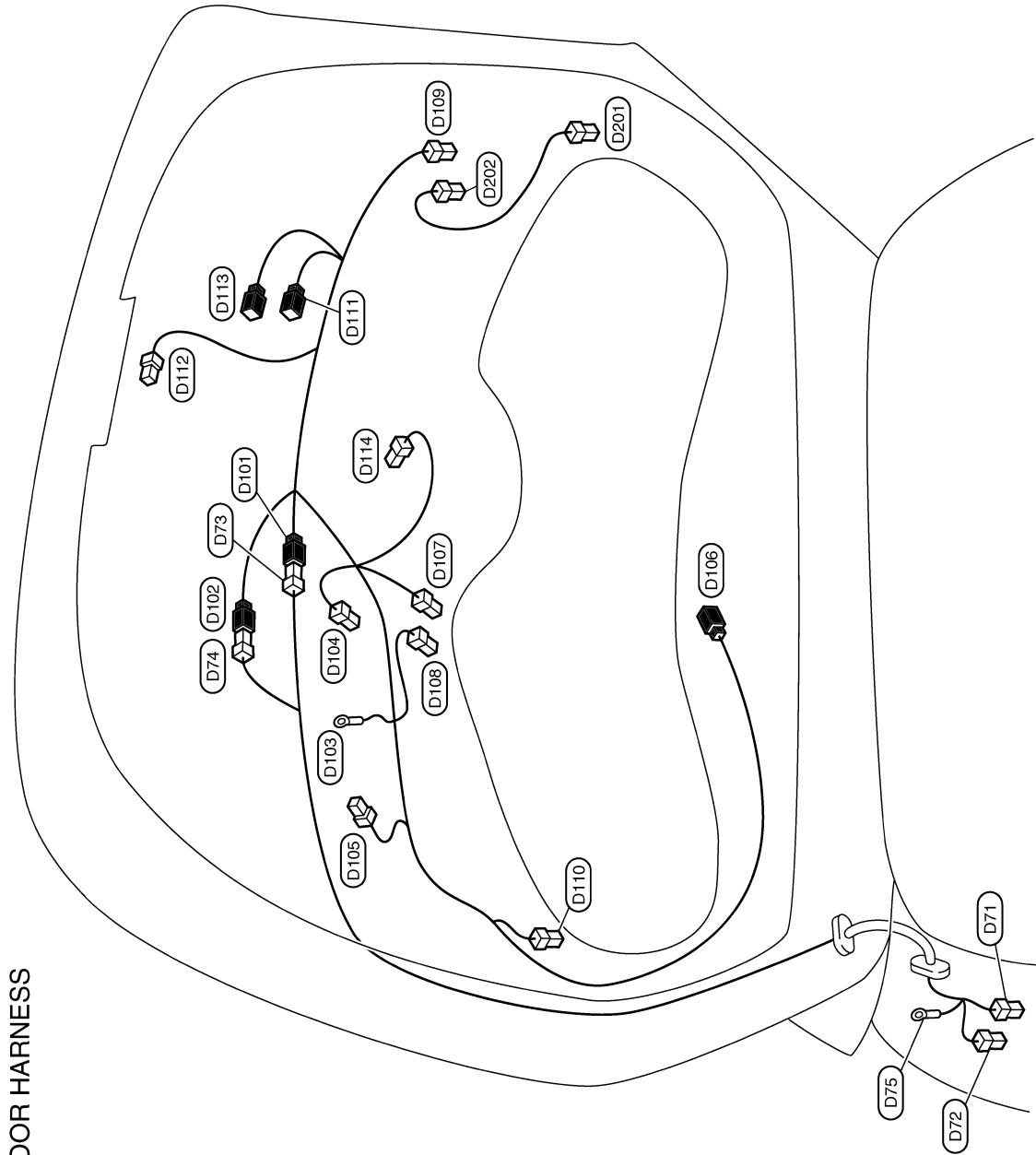


2011/07/29

JRMIC0786GB

HARNESS LAYOUT

< WIRING DIAGRAM >
BACK DOOR HARNESS



BACK DOOR HARNESS

2010/10/01

JCMIA0850GB

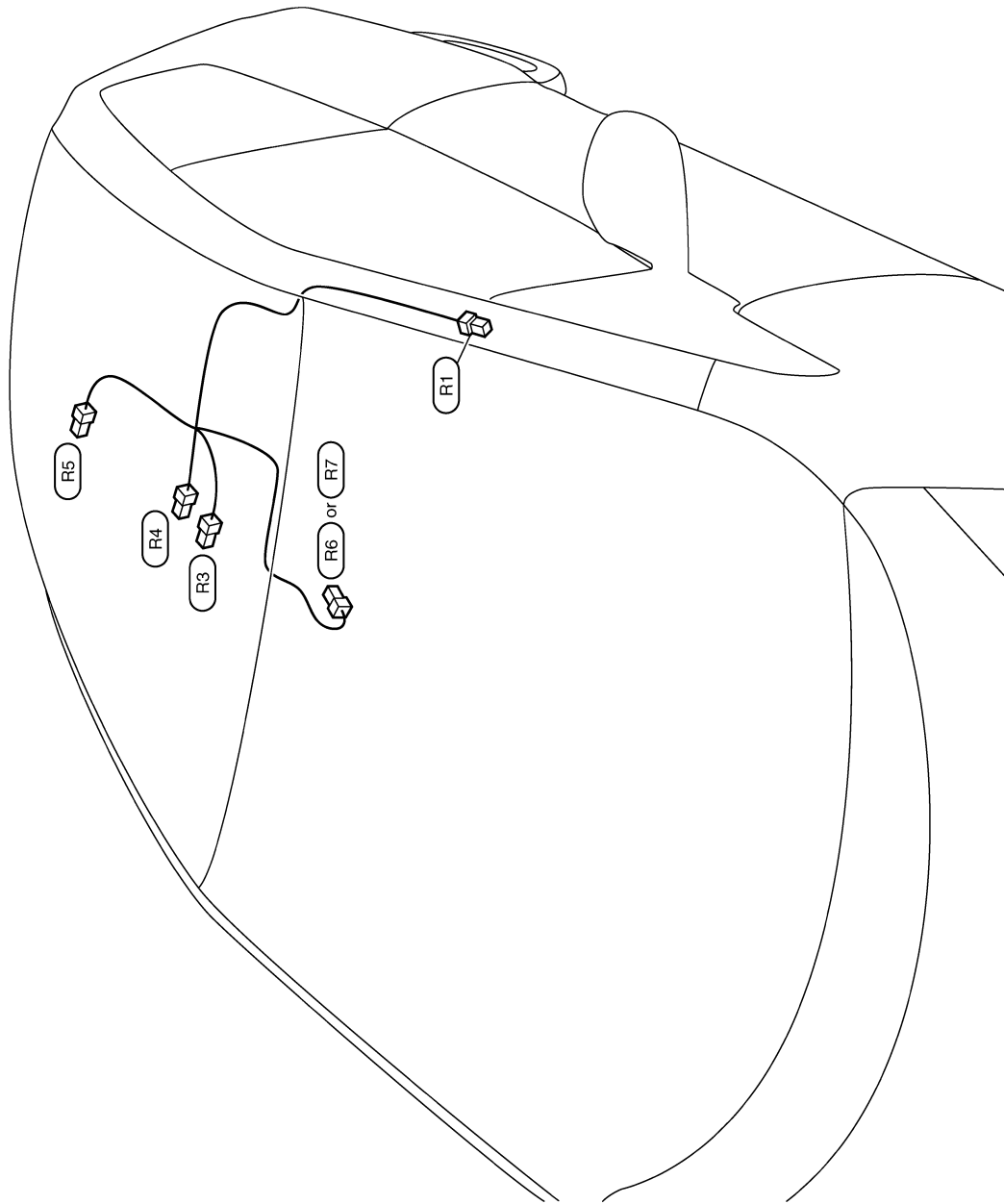
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HARNESS LAYOUT

< WIRING DIAGRAM >

Room Lamp Harness

INFOID:000000007632726



ROOM LAMP HARNESS

2010/10/29

JCMIA0859GB

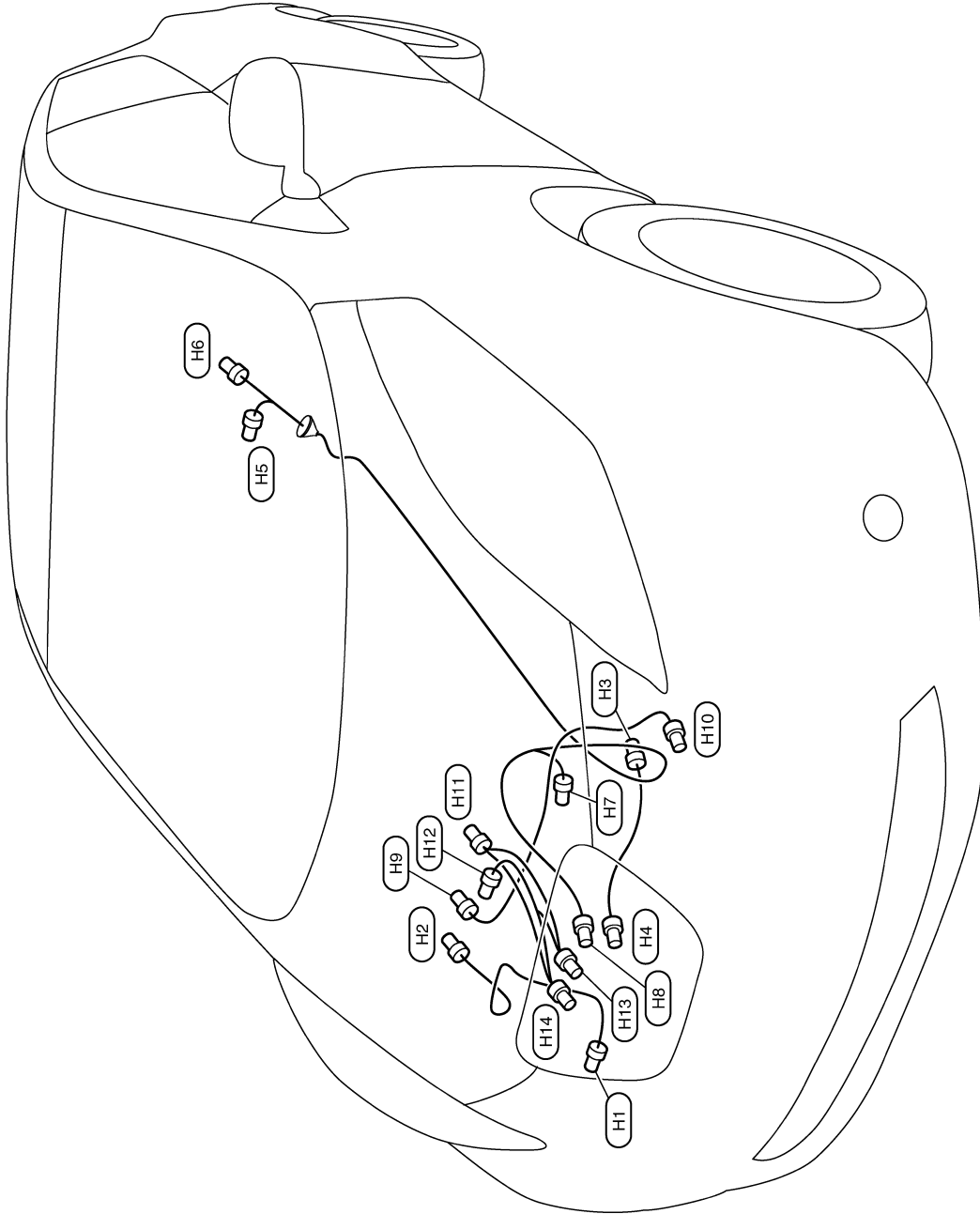
HARNESS LAYOUT

< WIRING DIAGRAM >

High Voltage Harness

INFOID:000000007632727

HIGH VOLTAGE HARNESS



2011/07/29

JRMIC0787GB

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

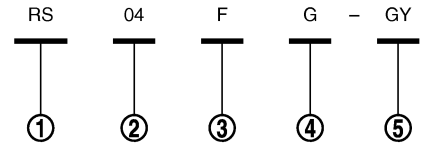
CONNECTOR INFORMATION

How to Read Connector Type

INFOID:000000007828174

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

Example:



JPMIA0113GB

CONNECTOR INFORMATION

< WIRING DIAGRAM >

B Body Harness

INFOID:000000007828175

BODY HARNESS

Connector No.	B1
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
6	R	-
8	P	-
9	GR	-
10	W	- [With solar cell]
10	SB	- [Without solar cell]
11	LG	-
12	P	-
13	V	-
14	Y	-
15	L	-
16	L	-

Connector No.	B2
Connector Name	WIRE TO WIRE
Connector Type	NS16MW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
4	V	-
7	V	-
8	P	-
8	GR	-
10	SB	- [With solar cell]
10	V	- [Without solar cell]
11	V	-
12	LG	-
13	V	-
14	GR	-

15	L
16	G

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH42MW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
3	SHIELD	-
4	B	-
5	W	-
6	R	-
11	G	-
15	L	-
16	G	-
18	L	-
19	BR	-
20	V	-
22	B	-
27	L	-
31	L	-
32	P	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH42MW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
8	BR	-
11	R	-
12	G	-

17	G
18	R
20	B
21	W
22	V
23	LG
24	SHIELD

Connector No.	B5
Connector Name	OCCUPANT CLASSIFICATION SYSTEM CONTROL UNIT
Connector Type	TH48FW-NH



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

Connector No.	B6
Connector Name	WIRE TO WIRE
Connector Type	M02MW-LG



1	2
---	---

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

Connector No.	B7
Connector Name	WIRE TO WIRE
Connector Type	TH42FW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	P	-
3	R	-
13	GR	-
14	B	-
15	LG	-
16	BR	-
17	G	-
18	B	-
19	Y	-
20	R	-
21	Y	-
22	W	-
23	SHIELD	-

Connector No.	B8
Connector Name	WIRE TO WIRE
Connector Type	NS04FW-CS



4	3	2	1
---	---	---	---

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

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

CONNECTOR INFORMATION

< WIRING DIAGRAM >

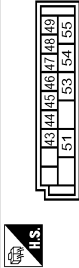
BODY HARNESS

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH32FW-NH



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

Connector No.	B10
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FE-FHAZ-SA



Terminal No.	Color of Wire	Signal Name [Specification]
43	Y	BACK DOOR SW
44	LG	REAR WIPER STOP POSITION
45	BR	PASSENGER DOOR SW
46	R	REAR RH DOOR SW
47	SB	DRIVER DOOR SW
48	W	REAR LH DOOR SW
49	L	LUGGAGE LAMP OUTPUT
51	P	BACK DOOR REQ SW
53	GR	BK DOOR OPEN OUTPUT
54	P	REAR WIPER OUTPUT
55	GR	PASS. RR DOOR UNLK OUTPUT

Connector No.	B11
Connector Name	LUGGAGE ROOM LAMP
Connector Type	NS02FW-CS



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

Connector No.	B12
Connector Name	WIRE TO WIRE
Connector Type	PH10FB



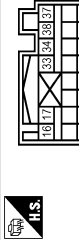
Terminal No.	Color of Wire	Signal Name [Specification]
4	B	-
5	GR	-
9	BR	-
10	LG	-

Connector No.	B13
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH2ZFV-IV-EX



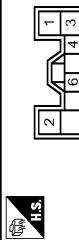
Terminal No.	Color of Wire	Signal Name [Specification]
10	Y	PRH (+)
11	LG	PRH (-)
26	R	ODS INRUT
29	LG	RH BUCKLE SW INPUT
31	Y	SRH (+)
32	Y/R	SRH (-)
35	Y	GRH (+)
36	LG	GRH (-)
47	G	SATELLITE RH (+)
48	R	SATELLITE RH (-)

Connector No.	B14
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH2ZFV-2V-EX



Terminal No.	Color of Wire	Signal Name [Specification]
12	P	PLH (+)
13	V	PLH (-)
16	Y	PLH 2 (+)
17	Y	PLH 2 (-)
30	LG	LH BUCKLE SW INPUT
33	Y	SLH (+)
34	L	SLH (-)
37	G	CLH (+)
38	R	CLH (-)
49	Y	SATELLITE LH (+)
50	LG	SATELLITE LH (-)

Connector No.	B15
Connector Name	BRAKE POWER SUPPLY BACKUP UNIT
Connector Type	TB04FW-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GROUND
2	R	BRAKE POWER SUPPLY BACKUP UNIT BACKUP SIGNAL
3	L	BRAKE POWER SUPPLY BACKUP UNIT POWER SUPPLY
4	W	BRAKE POWER SUPPLY BACKUP COMM
6	Y	RESAKE POWER SUPPLY BACKUP UNIT BACKUP SIGNAL

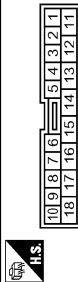
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CONNECTOR INFORMATION

< WIRING DIAGRAM >

BODY HARNESS

Connector No.	B16
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



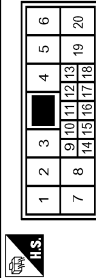
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	P	-
11	G	-
12	R	-
14	W	-
15	Y	-
16	L	-

Connector No.	B17
Connector Name	WIRE TO WIRE
Connector Type	TK10FW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	LG	-
11	GR	-
12	V	-
14	L	-
15	V	-
16	GR	-

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10MM-CS10



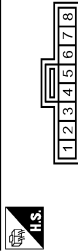
Terminal No.	Color of Wire	Signal Name [Specification]
5	P	-
6	R	-
7	P	-
9	P	-
10	Y	-
11	B	-
12	W	-
13	R	-
14	L	-
15	LG	-
17	SHIELD	-
18	B	-
20	GR	-

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	MAMW-LC



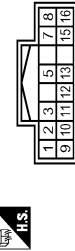
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	-
4	R	-

Connector No.	B20
Connector Name	PARKING BRAKE SWITCH
Connector Type	TH08FY



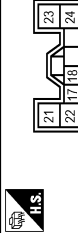
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SB	-
3	B	-
4	V	-
5	P	-
6	R	-
7	W	-
8	Y	-

Connector No.	B21
Connector Name	ELECTRIC PARKING BRAKE CONTROL MODULE
Connector Type	TH16FW-NH



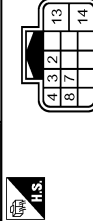
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	TENSION SENSOR1 SIGNAL
2	LG	TENSION SENSOR POWER SUPPLY
3	R	TENSION SENSOR2 SIGNAL
5	GR	POWER SWITCH ON
7	V	CONTROL MODULE BATTERY
8	P	CAN+
9	L	RELEASE SW SIGNAL
10	W	ANALOG SW POWER SUPPLY
11	Y	TENSION SENSOR GND
12	SB	ANALOG SW GND
13	SB	BRAKE SW SIGNAL
15	G	SHIELD GND
16	L	CANH

Connector No.	B22
Connector Name	ELECTRIC PARKING BRAKE CONTROL MODULE
Connector Type	TH04FW-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
17	L	ELECTRIC PARKING BRAKE CONTROL MODULE WHEEL SIGNAL
18	P	PARKING BRAKE SW INDICATOR SIGNAL
21	L	MOTOR POWER SUPPLY (+)
22	R	PARKING BRAKE ACTUATOR BATTERY
23	G	MOTOR POWER SUPPLY (-)
24	B	GROUND

Connector No.	B23
Connector Name	PARKING BRAKE ACTUATOR
Connector Type	RH12MB-RS2



Terminal No.	Color of Wire	Signal Name [Specification]
2	B	-
3	W	-
4	G	-
7	LG	-
8	R	-
13	G	-
14	L	-

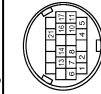
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CONNECTOR INFORMATION

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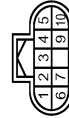
BODY HARNESS

Connector No.	B24
Connector Name	LI-ION BATTERY
Connector Type	Yazaki 7283-8750-30



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	EV CAN-H
2	G	EV CAN-L
4	R	IGN
5	R	BAT
6	B	GND3
7	B	GND2
8	B	GND1
10	B	PRE CHG GND
11	G	PRE CHG V
13	B	RLY2 GND
14	L	RLY2 V
16	B	RLY1 GND
17	Y	RLY1 V
21	R	CHG IGN

Connector No.	B25
Connector Name	ON BOARD CHARGER
Connector Type	RH10FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	QUICK CHARGE START STOP1 SIGNAL
2	SB	QUICK CHARGE START STOP2 SIGNAL
3	Y	QUICK CHARGER CONNECTION SIGNAL
4	G	QUICK CHARGE PERMIT SIGNAL
5	BR	GROUND
6	B	QUICK CHARGER COMMUNICATION-H
7	B	QUICK CHARGER COMMUNICATION-L
9	LG	EYE COMMUNICATION

10	W	EVSE CONNECTION SIGNAL
Connector No.	B26	ON BOARD CHARGER
Connector Name	RH12FB	



Terminal No.	Color of Wire	Signal Name [Specification]
11	Y	BATTERY POWER SUPPLY
12	W	BATTERY POWER SUPPLY
13	V	POWER ON POWER SUPPLY
14	P	NORMAL CHARGE RELAY +
15	LG	NORMAL CHARGE RELAY -
16	L	QUICK CHARGE RELAY +
17	SB	QUICK CHARGE RELAY -
18	GR	EV ACTIVATION REQUEST SIGNAL
19	L	EV SYSTEM CAN-H
20	G	EV SYSTEM CAN-L
21	BR	PLUG IN SIGNAL
22	B	GROUND

Connector No.	B27	ON BOARD CHARGER
Connector Name	RH08FB	



Terminal No.	Color of Wire	Signal Name [Specification]
25	W	QUICK CHARGE PORT TEMPERATURE SENSOR SIGNAL
26	GR	QUICK CHARGE PORT TEMPERATURE SENSOR SIGNAL
27	R	QUICK CHARGE VOLTAGE SENSOR SIGNAL-L
28	Y	QUICK CHARGE VOLTAGE SENSOR SIGNAL-H
29	G	SENSOR GROUND
30	V	QUICK CHARGE VOLTAGE SENSOR SIGNAL-H

Connector No.	B28	SIDE AIR BAG MODULE RH
Connector Name	TH02FY-EX-IV	



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

Connector No.	B29	SEAT BELT PRE-TENSIONER RH
Connector Name	AGB02FY	



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

Connector No.	B30	SATELLITE SENSOR RH
Connector Name	HR02FY-IV-EX	



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

Connector No.	B32	FRONT HEATED SEAT SWITCH LH
Connector Name	NS06FW-CS	



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

Connector No.	B33	FRONT HEATED SEAT SWITCH RH
Connector Name	NS06FBF-CS	



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

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< WIRING DIAGRAM >

BODY HARNESS

Connector No.	B34
Connector Name	SEAT BELT BUCKLE SWITCH (PASSENGER SIDE)
Connector Type	TH04FW-NH


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1

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

Connector No.	B35
Connector Name	SIDE AIR BAG MODULE LH
Connector Type	TK02FY-EX-1V

1

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

Connector No.	B36
Connector Name	SEAT BELT PRE-TENSIONER LH
Connector Type	4CB02EY

	Contributor type	Product type
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1

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

2	V	-
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CONNECTOR INFORMATION

< WIRING DIAGRAM >

BODY HARNESS

Connector No.	B59
Connector Name	CURTAIN AIR BAG MODULE RH
Connector Type	ACB02FY



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

Connector No.	B57
Connector Name	LICENSE PLATE LAMP LH
Connector Type	RK02FBR



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

Connector No.	B58
Connector Name	LICENSE PLATE LAMP RH
Connector Type	RK02FBR



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

Connector No.	B59
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS58MW-CS



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

Connector No.	B63
Connector Name	WIRE TO WIRE
Connector Type	NS58FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	B	-
4	P	-
5	L	-
6	R	-
7	V	-
8	B	-

Connector No.	B64
Connector Name	WIRE TO WIRE
Connector Type	NS58FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
40	B	-
41	L	-
42	R	-

Connector No.	B71
Connector Name	REAR DOOR SWITCH LH
Connector Type	TR04FW-NH



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

Connector No.	B72
Connector Name	CURTAIN AIR BAG MODULE LH
Connector Type	ACB02FY



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

Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS58MW-CS



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

Connector No.	B81
Connector Name	INSIDE KEY ANTENNA (REAR SEAT)
Connector Type	RK02FL



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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

BODY HARNESS

Connector No.	B182
Connector Name	INSIDE KEY ANTENNA (LUGGAGE ROOM)
Connector Type	PK02FL



9	BR	-
10	LG	-

Connector No.	B101
Connector Name	REAR WHEEL SENSOR LH
Connector Type	RH02MGY



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

Connector No.	B183
Connector Name	OUTSIDE KEY ANTENNA (REAR BUMPER)
Connector Type	PK02FL



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

Connector No.	B100
Connector Name	WIRE TO WIRE
Connector Type	RH10MB



Terminal No.	Color of Wire	Signal Name [Specification]
4	B	-
5	GR	-

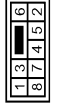
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	W	-
3	B	-

Connector No.	B253
Connector Name	REAR HEATED SEAT SWITCH
Connector Type	NS06FBR-CS



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

Connector No.	B254
Connector Name	WIRE TO WIRE
Connector Type	NS08MW-CS



Connector No.	B252
Connector Name	WIRE TO WIRE
Connector Type	NS03FW-CS





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

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

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BODY HARNESS		
Connector No.	B955	
Connector Name	WIRE TO WIRE	
Connector Type	NS33MM-CS	



Terminal No.	Color of Wire	Signal Name [Specification]
40	B	-
41	W	-
42	R	-

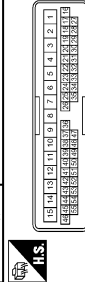
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CONNECTOR INFORMATION

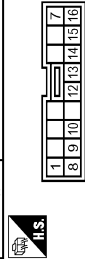
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DOOR HARNESS

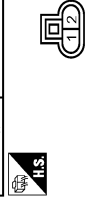
Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-CS15



Connector No.	D23
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TR46FW

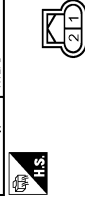


Connector No.	D25
Connector Name	FRONT DOOR SATELLITE SENSOR LH
Connector Type	HR02FY-IV-EX



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

Connector No.	D24
Connector Name	FRONT DOOR REQUEST SWITCH (DRIVER SIDE)
Connector Type	HR02FB



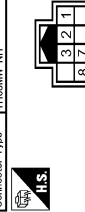
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	V	-
3	SB	-
4	V	-
7	P	-
8	BR	-
9	LG	-
10	Y	-
11	W	-
12	SB	-
13	B	-
14	V	-
15	R	-
24	R	-
25	G	-
26	SHIELD	-
37	LG	-
38	V	-
39	P	-
40	Y	-
41	GR	-
42	V	-
43	L	-
44	L	-
45	LG	-
46	BR	-
47	G	-
48	L	-
49	R	-
50	BR	-
53	P	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
7	L	-
8	GR	-
9	V	-
10	G	-
12	BR	-
13	LG	-
14	Y	-
15	L	-
16	W	-

Connector No.	D24
Connector Name	FRONT DOOR SPEAKER LH
Connector Type	NS02FW-CS



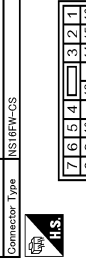
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-



Connector No.	D29
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH08MW-NH



Connector No.	D35
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	P	-
3	B	-
7	G	-
8	Y	-

Connector No.	D33
Connector Name	OUTSIDE KEY ANTENNA (DRIVER SIDE)
Connector Type	HR02MGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	SB	-
3	Y	-
4	W	-
5	Y	-
6	Y	-
7	LG	-
8	BR	-
9	P	-
10	V	-
12	R	-
14	G	-
15	BR	-
16	W	-

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

DOOR HARNESS

Connector No.	D38
Connector Name	POWER WINDOW MAIN SWITCH
Connector Type	NS30FW-CS



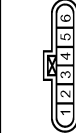
Terminal No.	Color of Wire	Signal Name [Specification]
17	R	-
18	R	-
19	GR	-

Connector No.	D37
Connector Name	FRONT POWER WINDOW MOTOR (DRIVER SIDE)
Connector Type	RS30FEG



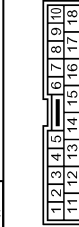
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	R	-
3	GR	-
4	Y	-
5	W	-
6	R	-

Connector No.	D38
Connector Name	FRONT DOOR LOCK ASSEMBLY (DRIVER SIDE)
Connector Type	EMF0Y-HS



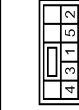
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	G	-
4	B	-
5	L	-
6	R	-

Connector No.	D41
Connector Name	WIPE TO WIPE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	P	-
11	G	-
12	V	-
14	LG	-
15	Y	-
16	L	-

Connector No.	D43
Connector Name	REAR POWER WINDOW SWITCH RH
Connector Type	NS30FW-CS



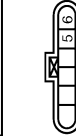
Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	LG	-
3	Y	-
4	G	-
5	R	-

Connector No.	D44
Connector Name	REAR DOOR SPEAKER RH
Connector Type	NS30FW-CS



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

Connector No.	D45
Connector Name	REAR DOOR LOCK ASSEMBLY RH
Connector Type	ES6F0Y-RS



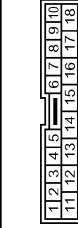
Terminal No.	Color of Wire	Signal Name [Specification]
5	V	-
6	G	-

Connector No.	D47
Connector Name	REAR POWER WINDOW MOTOR RH
Connector Type	RS30FEG



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

Connector No.	D61
Connector Name	WIPE TO WIPE
Connector Type	TK10MW-NS8



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	LG	-
11	G	-
12	Y	-
14	L	-
15	BR	-
16	Y	-

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CONNECTOR INFORMATION

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DOOR HARNESS

Connector No.	D63
Connector Name	REAR POWER WINDOW SWITCH LH
Connector Type	NS38FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	BR	-
3	Y	-
4	G	-
5	R	-

Connector No.	D64
Connector Name	REAR DOOR SPEAKER LH
Connector Type	NS32FW-CS



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

Connector No.	D65
Connector Name	REAR DOOR LOCK ASSEMBLY LH
Connector Type	EQBEGY-RS



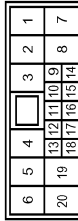
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-

Connector No.	D67
Connector Name	REAR POWER WINDOW MOTOR LH
Connector Type	RS0MFG



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

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



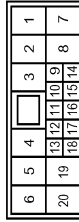
Terminal No.	Color of Wire	Signal Name [Specification]
5	W	-
6	R	-
7	P	-
9	P	-
10	P	-
11	B	-
12	W	-
13	R	-
14	L	-
15	LG	-
16	W	-
17	SHIELD	-
18	W	-
20	GR	-

Connector No.	D72
Connector Name	WIRE TO WIRE
Connector Type	NH4FW-LC



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

Connector No.	D73
Connector Name	WIRE TO WIRE
Connector Type	NH10FW-CS10



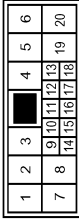
Terminal No.	Color of Wire	Signal Name [Specification]
5	W	-
6	R	-
7	P	-
9	P	-
10	P	-
12	W	-
13	R	-
14	L	-
15	LG	-
17	SHIELD	-
18	Y	-
20	GR	-

Connector No.	D74
Connector Name	WIRE TO WIRE
Connector Type	NH4FW-LC



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

Connector No.	D101
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



Terminal No.	Color of Wire	Signal Name [Specification]
5	P	-
6	R	-
7	P	-
9	P	-
10	P	-
12	W	-
13	R	-
14	L	-
15	LG	-
17	SHIELD	-
18	B	-
20	GR	-

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CONNECTOR INFORMATION

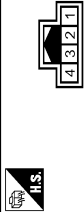
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DOOR HARNESS

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC



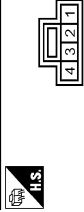
Connector No.	D106
Connector Name	WIRE TO WIRE
Connector Type	T104MW-NH



Connector No.	D109
Connector Name	CONDENSER
Connector Type	P01FB-A



Connector No.	D112
Connector Name	BACK DOOR LOCK ASSEMBLY
Connector Type	NS04FW-CS



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

Connector No.	D104
Connector Name	COIL
Connector Type	M01FW-JUS



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	B	-
3	R	-
4	B	-

Connector No.	D107
Connector Name	CONDENSER
Connector Type	P01FB-A



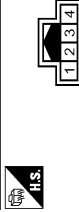
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-

Connector No.	D110
Connector Name	REAR WINDOW DEFOGGER
Connector Type	P01FB-A



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

Connector No.	D113
Connector Name	REAR VIEW CAMERA
Connector Type	T104MW-NH



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

Connector No.	D105
Connector Name	COIL
Connector Type	T104FW-NH



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

Connector No.	D108
Connector Name	CONDENSER
Connector Type	P01FB-A



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

Connector No.	D111
Connector Name	BACK DOOR OPENER SWITCH ASSEMBLY
Connector Type	T104MGY-RC



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	CAMERA POWER SUPPLY
2	W	CAMERA GND
3	B	CAMERA IMAGE SIGNAL
4	SHIELD	-

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

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




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CONNECTOR INFORMATION

< WIRING DIAGRAM >

DOOR HARNESS			
Connector No.	D114	Connector No.	D002
Connector Name	REAR WIPER MOTOR	Connector Name	CONDENSER
Connector Type	CJ04FW-IV	Connector Type	P01FB-A
			
Terminal No.	1	Terminal No.	1
Color of Wire	-	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	2	Terminal No.	2
Color of Wire	P	Color of Wire	B
Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	3	Terminal No.	3
Color of Wire	LG	Terminal No.	4
Signal Name [Specification]	-	Color of Wire	B
Terminal No.	4	Signal Name [Specification]	-
Color of Wire	-	Terminal No.	2
Signal Name [Specification]	-	Color of Wire	B
Signal Name [Specification]	-	Signal Name [Specification]	-
Connector No.	D150	Terminal No.	2
Connector Name	WIRE TO WIRE	Color of Wire	B
Connector Type	TH04FW-NH	Signal Name [Specification]	-
			
Terminal No.	1	Terminal No.	1
Color of Wire	BR	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	2	Terminal No.	2
Color of Wire	B	Color of Wire	B
Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	3	Terminal No.	3
Color of Wire	R	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	4	Terminal No.	4
Color of Wire	B	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-
Connector No.	D151	Connector No.	D201
Connector Name	HIGH-MOUNTED STOP LAMP	Connector Name	REAR WINDOW DEFOGGER
Connector Type	PK02FGY	Connector Type	P01FB-A
			
Terminal No.	1	Terminal No.	1
Color of Wire	-	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	2	Terminal No.	2
Color of Wire	-	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	3	Terminal No.	3
Color of Wire	-	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-
Terminal No.	4	Terminal No.	4
Color of Wire	-	Color of Wire	-
Signal Name [Specification]	-	Signal Name [Specification]	-

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

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MOTOR ROOM HARNESS

Connector No.	E1
Connector Name	BATTERY TERMINAL WITH FUSE/LINK
Connector Type	LO2FGY-MC



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

Connector No.	E2
Connector Name	BATTERY TERMINAL WITH FUSE/LINK
Connector Type	LO2FBR-MC-B



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

Connector No.	E3
Connector Name	BATTERY TERMINAL WITH FUSE/LINK
Connector Type	LO1FEB-MC



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

Connector No.	E5
Connector Name	HORN RELAY
Connector Type	24381 C0900



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	GR	-
3	G	-

Connector No.	E6
Connector Name	VEHICLE SECURITY HORN
Connector Type	P01FB-A



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

Connector No.	E7
Connector Name	VEHICLE SECURITY HORN
Connector Type	P01FB-A



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

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SAA38MB-RS10-SL72



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	GR	-
4	LG	-
5	P	-
6	B	-
8	BR	-
10	B	-
11	W	-
12	O	-
13	G	-
14	V	-
15	SB	-
16	R	-
17	L	-
18	LG	-
20	V	-
21	G	-
22	Y	-
23	B/R	-
26	V	-
27	P	-
28	B/R	-
29	W	-
30	B/R	-
31	LG	-
32	W	-
33	Y	-
34	P	-
35	P	-
36	R	-
37	G	-
38	B/R	-
40	BR	-
41	G	-
42	SB	-
43	L	-
44	O	-

47	V	-
48	P	-

Connector No.	E9
Connector Name	PRIMER INTELLIGENT POWER DISTRIBUTION MODULE (MOTOR ROOM)
Connector Type	LO2FB-MC



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

Connector No.	E10
Connector Name	FRONT SIDE MARKER LAMP LH
Connector Type	RS02FGY



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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR ROOM HARNESS

Connector No.	E11
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	M09FB-LC



Terminal No.	Color of Wire	Signal Name [Specification]
9	B	-
14	R	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
18	B/W	-
19	W	-
20	V	-

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



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

26	P	-
27	L	-
28	G	-
32	SB	-
34	W	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
35	G	-
36	GR	-
38	GR	-
39	L	-
41	R	-
42	R	-
43	O	-
44	R	-
45	W	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
48	Y	-
50	G	-
51	L	-
52	P	-
55	R	-
57	R	-

58	LG	-
60	R	-
61	Y	-
62	V	-

Connector No.	E16
Connector Name	FRONT SIDE MARKER LAMP RH
Connector Type	RS02FGY



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

Connector No.	E17
Connector Name	FROM E/R INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	TH10FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
64	P	-
66	L	-
68	BR	-

Connector No.	E18
Connector Name	COOLING FAN RELAY
Connector Type	J24347-9F900



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	B/Y	-
3	BR	-
5	R	-

Connector No.	E19
Connector Name	COOLING FAN CONTROL MODULE
Connector Type	SJ20FGY-SN22



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GROUND
2	V	PWM SIG
3	R	PWM POWER

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR ROOM HARNESS

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	B/Y	-
4	L	-
5	R	-

Connector No.	E22
Connector Name	FRONT WHEEL SENSOR LH
Connector Type	RH02FB



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

Connector No.	E23
Connector Name	SIDE TURN SIGNAL LAMP LH
Connector Type	STL02FW



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

1	Y	-
2	B/W	-

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RH03FBR



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
3	GR	-

Connector No.	E26
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RS08FGY-PR



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

Connector No.	E27
Connector Name	REVERSE LAMP RELAY
Connector Type	MS02FL-4M-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	O	-
2	SB	-
3	O	-
5	G	-

Connector No.	E28
Connector Name	HEADLAMP AIMING MOTOR LH
Connector Type	RH03FB



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

Connector No.	E29
Connector Name	WASHER LEVEL SWITCH
Connector Type	Z02FBR



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

Connector No.	E30
Connector Name	FRONT FOG LAMP LH
Connector Type	RH202FB



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

Connector No.	E31
Connector Name	MASTER CYLINDER PRESSURE SENSOR
Connector Type	AAZ05FB2-S



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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR ROOM HARNESS

Connector No.	E32
Connector Name	MASTER CYLINDER PRESSURE SENSOR2
Connector Type	HA209FB2-S



Terminal No.	Color of Wire	Signal Name [Specification]
1	L/O	-
2	L/Y	-
3	W/L	-

Connector No.	E33
Connector Name	CRASH ZONE SENSOR
Connector Type	HK02FY-1V-EX-LC



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

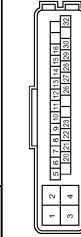
Connector No.	E34
Connector Name	ELECTRICALLY-ORIGIN INTELLIGENT BRAKE UNIT
Connector Type	SA242FB-SLZ4-S



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

2	R	MOTOR BATTERY
5	L/O	STROKE SENSOR GND
7	W	PRESS SENSOR SIGNAL
8	O	BRAKE POWER SUPPLY BACKUP UNIT W/ASUP SIGNAL
10	W	BRAKE POWER SUPPLY BACKUP COMM
11	Y	CONTROL MODULE BATTERY
13	SB	STOP LAMP SW SIGNAL
19	W/L	STROKE SENSOR POWER SUPPLY
21	B	PRESS SENSOR POWER SUPPLY
22	W	BRAKE SIGNAL
24	B	BRAKE COMM
25	R	BRAKE POWER SUPPLY
26	V	POWER SWITCH ON
31	B	GROUND
32	W	BRAKE POWER SUPPLY BACKUP UNIT BACKUP SIGNAL
35	L/Y	STROKE SENSOR1 SIGNAL
37	G	STROKE SENSOR2 SIGNAL
38	R	PRESS SENSOR GND
40	P	CAN2-L
41	L	CAN2-H
42	P	CAN1-L
43	L	CAN1-H

Connector No.	E35
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT CONTROL UNIT
Connector Type	RH28FB-NH4-DH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MOTOR BATTERY
2	B	VALVE BATTERY
3	B	GROUND
4	B	GROUND
5	P	ESP OFF SW SIGNAL
6	O	BRAKE SW SIGNAL
7	L/Y	PRESS SENSOR SIGNAL
8	SB	STOP LAMP SW SIGNAL
9	P	CAN-L
10	W/L	PRESS SENSOR POWER SUPPLY
11	BR	RR RH WHEEL SENSOR POWER SUPPLY
12	W	FR RH WHEEL SENSOR POWER SUPPLY
13	G	G SENSOR POWER SUPPLY
14	B	G SENSOR SIGNAL (*)

15	L/G	RR RH WHEEL SENSOR SIGNAL
16	V	POWER SWITCH ON
20	B	BRAKE COMM
21	B	FR RH WHEEL SENSOR POWER SUPPLY
22	L	CAN-H
23	R	FR LH WHEEL SENSOR POWER SUPPLY
26	B	RR LH WHEEL SENSOR POWER SUPPLY
27	Y	FR LH WHEEL SENSOR SIGNAL
28	R	G SENSOR GND
29	Y	G SENSOR SIGNAL (-)
30	G	RR LH WHEEL SENSOR SIGNAL
32	L/O	PRESS SENSOR GND

Connector No.	E36
Connector Name	STROKE SENSOR
Connector Type	HS94FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	L/O	-
2	L/Y	-
3	W/L	-
4	G	-

Connector No.	E37
Connector Name	BRAKE FLUID LEVEL SWITCH
Connector Type	YV02FGY



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

Connector No.	E39
Connector Name	FRONT WHEEL SENSOR RH
Connector Type	RH02FB



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

Connector No.	E40
Connector Name	SIDE TURN SIGNAL LAMP RH
Connector Type	STL02FW



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

Connector No.	E41
Connector Name	WASHER PUMP
Connector Type	EQ02FY-RS



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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR ROOM HARNESS

Connector No.	E42
Connector Name	APPROACHING VEHICLE SOUND FOR RESTRANS (VSP) SWASER
Connector Type	RH02FB



Connector No.	E47
Connector Name	HEADLAMP AIMING MOTOR RH
Connector Type	RH03FB



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

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

Connector No.	E45
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RS08FGY-PR



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

2	B	-
3	L	-

Connector No.	E50
Connector Name	HORN LOW
Connector Type	PH01FB-A



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

Connector No.	E51
Connector Name	HORN LOW
Connector Type	PH01FB-A



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

Connector No.	E52
Connector Name	A/C RELAY
Connector Type	MS05BR-R-LC



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

1	GR	-
2	SB	-
3	R	-
5	V	-
6	R	-
7	W	-

Connector No.	E53
Connector Name	AMBIENT SENSOR
Connector Type	RS02FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	AMBIENT SENSOR SIGNAL
2	LG	SENSOR GROUND

Connector No.	E54
Connector Name	PARKING ACTUATOR RELAY A
Connector Type	MS02FL-MZ-LC



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

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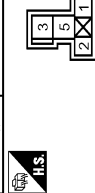
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CONNECTOR INFORMATION

< WIRING DIAGRAM >

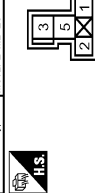
MOTOR ROOM HARNESS

Connector No.	E63
Connector Name	PARKING ACTUATOR RELAY B
Connector Type	MS02FL-M2-LC



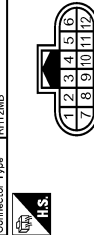
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	GR	-
3	LG	-
5	Y	-

Connector No.	E66
Connector Name	ELECTRIC SHIFT POWER SUPPLY / RELAY
Connector Type	MS02FL-M2-LC



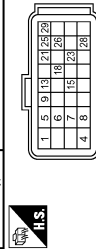
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	BR	-
3	R	-
5	W	-

Connector No.	E69
Connector Name	WIRE TO WIRE
Connector Type	FR12MB



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

Connector No.	E61
Connector Name	VCM
Connector Type	RH24FCY-R28-R-RH



CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR ROOM HARNESS

Connector No.	E65
Connector Name	M/C RELAY
Connector Type	MS02FL-M2-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	B/Y	-
3	G	-
4	W	-

Connector No.	E68
Connector Name	ELECTRIC WATER PUMP 2
Connector Type	RS04FG

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

Connector No.	E66
Connector Name	BATTERY CURRENT SENSOR
Connector Type	SAZ04FGY



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

Connector No.	E69
Connector Name	COOLANT TEMPERATURE SENSOR
Connector Type	EQ2FGY-RS

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

Connector No.	E67
Connector Name	ELECTRIC WATER PUMP 1
Connector Type	RS04FG



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

Connector No.	E70
Connector Name	QUICK CHARGE PORT
Connector Type	RH10FB



Connector No.	E73
Connector Name	VEHICLE SECURITY HORN RELAY
Connector Type	MS03FW-R-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	SB	-
3	Y	-
4	G	-
5	BR	-
6	L	-
7	O	-
9	W	-
10	R	-

Connector No.	E71
Connector Name	NORMAL CHARGE PORT
Connector Type	RH03FB

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

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	O	-
3	G	-

Connector No.	E78
Connector Name	HOOD SWITCH
Connector Type	RH02MGY



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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR ROOM HARNESS

Connector No.	EB4
Connector Name	DAYTIME RUNNING LIGHT RELAY
Connector Type	MS3FPE-M2



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

Connector No.	EB5
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RH10FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	O	-
3	GR	-
4	L	-
5	LG	-
6	B	-
7	Y	-
8	B/W	-
9	B/W	-
10	B/W	-

Connector No.	EB6
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RH10FB



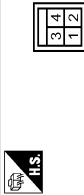
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	O	-
3	BR	-
4	P	-
5	R	-
6	B	-
7	G	-
8	B/Y	-
9	B/Y	-
10	L	-

Connector No.	EI01
Connector Name	ACCELERATOR PEDAL POSITION SENSOR
Connector Type	RH06FB



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

Connector No.	EI02
Connector Name	STOP LAMP SWITCH
Connector Type	MM4FW-LC



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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR ROOM HARNESS

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS16-TM4



44	GR	-
45	G	-
46	P	-
47	R	- [With solar cell]
48	LG	- [Without solar cell]
49	V	-
50	L	-
51	W	-
52	P	-
53	Y	-
54	O	-
55	Y	-
56	Y	-
57	P	-
58	LG	-
59	LG	-
60	GR	-
61	GR	-
62	BR	-
63	O	-
64	R	-
65	Y	-
66	G	-
67	V	-
68	W	-
69	SB	-
70	Y	-
71	Y	-
72	L	-
73	R	-
74	L	-
75	V	-
76	P	-
77	O	-
78	L	-
79	SB	-
80	G	-
81	L	-
82	SB	-
83	G	-
84	BR	-
85	LG	-
86	GR	-
87	B	-
88	B	-
89	W	-
90	SHIELD	-
91	Y	-
92	BR	-
93	W	-
94	R	-
95	V	-
96	P	-
97	G	-
98	SB	-

CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR ROOM HARNESS

Connector No.	E109
Connector Name	WIRE TO WIRE
Connector Type	TH32MM-NH

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



Connector No.	E112
Connector Name	ASCD BRAKE SWITCH
Connector Type	M02BFR-LG

1	2
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Connector No.	E301
Connector Name	COOLING FAN CONTROL MODULE (COOLING FAN MOTOR-1)
Connector Type	B188-0259



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	R	-
3	Y	-
4	G	-
5	BR	-
6	L	-
7	O	-
8	V	-
9	SB	-
10	LG	-
11	L	-
17	LG	-
18	BR	-
19	O	-
20	V	-
21	SB	-
22	L	-
23	G	-
24	Y	-
25	W/L	-
26	L/Y	-
27	L/O	-
28	GR	-
29	P	-
30	R	-
31	W	-

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

Terminal No.	Color of Wire	Signal Name [Specification]
4	-	-
5	-	-

Connector No.	E201
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	-



Connector No.	E302
Connector Name	COOLING FAN CONTROL MODULE (COOLING FAN MOTOR-2)
Connector Type	B188-0259



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

Terminal No.	Color of Wire	Signal Name [Specification]
6	-	-
7	-	-

Connector No.	E202
Connector Name	DC/DC-J/B
Connector Type	-



Terminal No.	Color of Wire	Signal Name [Specification]
17	B/R	BATTERY POWER SUPPLY

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

F Motor Control Harness

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MOTOR CONTROL HARNESS

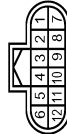
Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAASFB-RS1P-S472



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	GR	-
4	LG	-
5	P	-
6	B	-
8	W	-
10	R	-
11	W	-
12	O	-
13	G	-
14	V	-
15	SB	-
16	LG	-
17	BR	-
18	Y	-
20	V	-
21	G	-
22	LG	-
23	B	-
26	SB	-
27	R	-
28	Y	-
29	W	-
30	P	-
31	L	-
32	W	-
33	Y	-
34	R	-
35	G	-
36	LG	-
37	O	- [With quick charge port] - [Without quick charge port]
38	B	-
40	BR	-
41	O	-
42	SB	-
43	L	-

44	LG	-
47	V	-
48	P	-

Connector No.	F2
Connector Name	WIRE TO WIRE
Connector Type	RH12FB



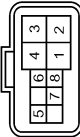
Terminal No.	Color of Wire	Signal Name [Specification]
1	L/W	-
2	LG	-
3	L	-
4	G	-
5	L	-
6	G	-
7	V	-
8	Y/V	-
9	V	-
10	O	-
11	R/Y	-
12	W/R	-

Connector No.	F3
Connector Name	WIRE TO WIRE
Connector Type	RK02MXY



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

Connector No.	F4
Connector Name	PARKING ACTUATOR
Connector Type	SAZ08FB-HS4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	SB	-
3	LG	-
4	G	-
5	W	-
6	O	-
7	R	-
8	G	-

Connector No.	F5
Connector Name	PARKING ACTUATOR
Connector Type	RS04FG



Terminal No.	Color of Wire	Signal Name [Specification]
11	BR	-
12	Y	-
13	W	-
14	LG	-

Connector No.	F6
Connector Name	PARKING ACTUATOR
Connector Type	RH06FB



Terminal No.	Color of Wire	Signal Name [Specification]
15	L	-
16	GR	-
17	Y	-
18	P	-
19	V	-
20	LG	-

Connector No.	F7
Connector Name	HEATER FLUID TEMPERATURE SENSOR
Connector Type	E02F5Y-RS



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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MOTOR CONTROL HARNESS

Connector No.	F8
Connector Name	HEATER PUMP
Connector Type	RS04FG



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	SB	-
4	R	-

Connector No.	F9
Connector Name	PTC ELEMENTS HEATER
Connector Type	RH06FB



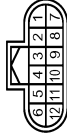
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
3	P	-
4	SB	-

Connector No.	F10
Connector Name	ELECTRIC COMPRESSOR
Connector Type	SA206FN



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

Connector No.	F11
Connector Name	DC/DC-J/B
Connector Type	RH12FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y/V	-
3	R	BATTERY POWER SUPPLY
4	V	-
5	P	-
6	O	-
7	LG	-
8	Y	-
9	L/W	-
10	W	-
11	R	BATTERY POWER SUPPLY
12	V	QUICK CHARGE RELAY POWER SUPPLY

Connector No.	F12
Connector Name	DC/DC-J/B
Connector Type	RH04FB



Terminal No.	Color of Wire	Signal Name [Specification]
13	W/R	-
14	R/Y	-

Connector No.	F13
Connector Name	TRACTION MOTOR INVERTER
Connector Type	RH08FG-GY



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	TRACTION MOTOR RESOLVER SIGNAL (S1)
2	B	GROUND
4	G	POWER SUPPLY (BATTERY)
6	W	TRACTION MOTOR RESOLVER SIGNAL (S2)
8	B	GROUND
10	G	POWER SUPPLY (BATTERY)
12	L	EV SYSTEM CAN-H
19	G	EV SYSTEM CAN-L
20	L	TRACTION MOTOR RESOLVER SIGNAL (S2)
27	P	TRACTION MOTOR RESOLVER SIGNAL (S4)
31	O	TRACTION MOTOR TEMPERATURE SENSOR GROUND
32	B/P	TRACTION MOTOR TEMPERATURE SENSOR
33	LG	POWER SUPPLY (IGN)
34	R	TRACTION MOTOR RESOLVER SIGNAL (R1)
35	G	TRACTION MOTOR RESOLVER SIGNAL (R2)

Connector No.	F14
Connector Name	TRACTION MOTOR
Connector Type	RH08FB



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

4	O	-
5	R	-
6	P	-
7	L	-
8	W	-

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

M Main Harness

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MAIN HARNESS

Terminal No.	Color of Wire	Signal Name [Specification]
41	Y	U-VOICE SIGNAL
42	B	VOICE GROUND
46	V	MANUFACTURE SPECIFIC SIGNAL
47	BR	USB VBUS SIGNAL
48	L	USB D- SIGNAL
49	G	D-VOICE SIGNAL
55	B	USB GROUND
56	R	USB D+ SIGNAL
57	SHIELD	SHIELD



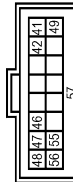
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-

Connector No.	Connector Name	Connector Type
M1	FUSE BLOCK (J/B)	
M2	TCU	
M3	TH40FW-NH	



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	BATTERY POWER SUPPLY
2	B	GROUND
3	G	ACC POWER SUPPLY
4	V	POWER SWITCH ON SIGNAL
8	L	EV SYSTEM CAN-H
10	G	EV SYSTEM CAN-L
11	LG	EV SYSTEM ACTIVATION REQUEST SIGNAL

Connector No.	Connector Name	Connector Type
M3	TCU	
M4	DATA LINK CONNECTOR	
M5	HEATED STEERING WHEEL RELAY	
M6	HEATED STEERING WHEEL SWITCH	
M7	TH40FW-NH	
M8	PASSENGER AIR BAG MODULE	
M9	PASSENGER AIR BAG MODULE	
M10	UCAD2FB	



Terminal No.	Color of Wire	Signal Name [Specification]
41	Y	U-VOICE SIGNAL
42	B	VOICE GROUND
46	V	MANUFACTURE SPECIFIC SIGNAL
47	BR	USB VBUS SIGNAL
48	L	USB D- SIGNAL
49	G	D-VOICE SIGNAL
55	B	USB GROUND
56	R	USB D+ SIGNAL
57	SHIELD	SHIELD

Connector No.	Connector Name	Connector Type
M4	DATA LINK CONNECTOR	
M5	HEATED STEERING WHEEL RELAY	
M6	HEATED STEERING WHEEL SWITCH	
M7	TH40FW-NH	
M8	PASSENGER AIR BAG MODULE	
M9	PASSENGER AIR BAG MODULE	
M10	UCAD2FB	



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

Connector No.	Connector Name	Connector Type
M5	HEATED STEERING WHEEL RELAY	
M6	HEATED STEERING WHEEL SWITCH	
M7	TH40FW-NH	
M8	PASSENGER AIR BAG MODULE	
M9	PASSENGER AIR BAG MODULE	
M10	UCAD2FB	



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	V	-
3	B	-
5	BR	-

Connector No.	Connector Name	Connector Type
M6	HEATED STEERING WHEEL SWITCH	
M7	TH40FW-NH	



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	B	-
3	W	-
4	B	-
5	BR	-
6	BR	-

Connector No.	Connector Name	Connector Type
M8	PASSENGER AIR BAG MODULE	
M9	PASSENGER AIR BAG MODULE	
M10	UCAD2FB	



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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M10
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	G	-
3	LG	-
4	V	-
10	BR	-
11	Y	-
12	B	-
13	W	-
14	SB	-
15	L	-
24	Y	-
25	BR	-
26	SHIELD	-
36	B	-
37	P	-
38	Y	-
39	LG	-
44	L	-
45	LG	-
46	BR	-
52	B	-
53	V	-

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



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

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

1	P	-
2	L	-
3	G	-
4	V	-
7	BR	-
8	Y	-
9	LG	-
10	Y	-
11	W	-
12	SB	-
13	B	-
14	L	-
15	R	-
24	R	-
25	G	-
26	SHIELD	-
37	LG	-
38	V	-
39	P	-
40	Y	-
41	B	-
42	P	-
43	L	-
44	L	-
45	LG	-
46	BR	-
47	W	-
48	GR	-
49	R	-
50	BR	-
53	V	-

Connector No.	M13
Connector Name	WARNING BUZZER
Connector Type	TK02FBR



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

Connector No.	M14
Connector Name	TWEETER RH
Connector Type	TK02FBR



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

Connector No.	M15
Connector Name	TWEETER LH
Connector Type	TK02FBR



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

Connector No.	M16
Connector Name	OPTICAL SENSOR
Connector Type	TK03FW



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

3	V	-
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Connector No.	M17
Connector Name	HEADLAMP AIMING SWITCH
Connector Type	ACHFW



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

Connector No.	M18
Connector Name	WIRE TO WIRE
Connector Type	NS16FW-CS



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
6	V	-
8	P	-
9	B	- [With Heated Seat]
9	L	- [Without Heated Seat]
10	W	- [With solar cell]
10	Y	- [Without solar cell]
11	LG	-
12	GR	-
13	W	-
14	Y	-
15	LG	-
16	L	-

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M19
Connector Name	WIPE TO WIRE
Connector Type	TH16FW-CS



7	8	5	4	3	2	1
16	15	14	13	12	11	10
9	8	7	6	5	4	3
2	1	0	9	8	7	6

Terminal No.	Color of Wire	Signal Name [Specification]
4	BR	-
7	V	-
8	P	-
9	L	-
10	V	- [With solar cell]
10	W	- [Without solar cell]
11	V	-
12	R	-
13	BR	-
14	Y	-
15	L	-
16	G	-

Connector No.	M20
Connector Name	DIODE
Connector Type	24335 G5900



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

Connector No.	M21
Connector Name	WIPE TO WIRE
Connector Type	TH432FW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
3	SHIELD	-
4	B	-
5	W	-
6	R	-
11	G	-
15	L	-
16	G	-
18	BR	-
19	G	-
20	V	-
22	B	-
27	L	-
31	L	-
32	P	-

Connector No.	M23
Connector Name	WIPE TO WIRE
Connector Type	TH16MW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	SHIELD	-
5	B	-
6	BR	-
7	P	-
8	Y	-

9	R	-
10	B	-
11	O	-

Connector No.	M24
Connector Name	INSIDE KEY ANTENNA (INSTRUMENT CENTER)
Connector Type	PK02FL



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

Connector No.	M25
Connector Name	POWER SWITCH
Connector Type	TH08FBR



4	5	6	7	8
3				

Terminal No.	Color of Wire	Signal Name [Specification]
3	G	-
4	B	-
5	W	-
6	B	-
7	V	-
8	SB	-

Connector No.	M26
Connector Name	METER CONTROL SWITCH
Connector Type	TH12FW-NH



1	2	3	4	5	6
11	12				

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	B	-
3	R	-
5	V	-
6	BR	-
11	BR	-
12	W	-

Connector No.	M27
Connector Name	COMBINATION SWITCH
Connector Type	TH16FW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	WASHER (RR)
2	GR	OUTPUT 4
3	R	WASHER (FR)
4	W	IGN
5	BR	OUTPUT 3
6	BR	GROUND
7	W	OUTPUT 2
8	L	OUTPUT 5
9	B	INPUT 2
10	Y	INPUT 4
11	P	INPUT 1
12	V	OUTPUT 1
13	LG	INPUT 3
14	G	OUTPUT 2

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

CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M28
Connector Name	ESP OFF SWITCH
Connector Type	TH48FW-NH



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

Connector No.	M29
Connector Name	GLOVE BOX LAMP
Connector Type	A02FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	- [With glove box lamp]
2	B	-

Connector No.	M30
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH48FW-NH



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

1	B	-
2	P	-
4	Y	-
5	L	-

Connector No.	M31
Connector Name	COMBINATION SWITCH
Connector Type	N302FW-CS



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

Connector No.	M32
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH08FY-EX-IV



Terminal No.	Color of Wire	Signal Name [Specification]
23	R	-
28	Y	-
29	Y/V	-
30	GR	-

Connector No.	M33
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TH08FY-IV



Terminal No.	Color of Wire	Signal Name [Specification]
24	BR	-
25	LG	-
26	B	-
31	Y	-
32	SB	-
33	SHIELD	-
34	G	-

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	BATTERY POWER SUPPLY
2	R	BATTERY POWER SUPPLY (FOR UPPER METER)
3	GR	POWER SWITCH SUPPLY
4	BR	POWER SWITCH SUPPLY (FOR UPPER METER)
5	B	GROUND
6	B	GROUND
7	V	ELECTRIC SHIFT WARNING SIGNAL
8	V	WASHER LEVEL SWITCH SIGNAL
9	G	PLUG IN SIGNAL
10	GR	COMMUNICATION SIGNAL (METER - VSP)
11	R	COMMUNICATION SIGNAL (VSP - METER)
12	V	METER CONTROL SWITCH GROUND
13	LG	ENTER SWITCH SIGNAL
14	W	SELECT SWITCH SIGNAL
15	BR	TRIP RESET SWITCH SIGNAL

16	BR	ILLUMINATION CONTROL SWITCH SIGNAL
17	V	ILLUMINATION CONTROL SIGNAL (FOR UPPER METER)
18	P	CAN-L
19	L	CAN-H
20	LG	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
22	GR	GROUND (FOR UPPER METER)
24	BR	GROUND (FOR UPPER METER)
25	SB	BRAKE FLUID LEVEL SWITCH SIGNAL
26	B	ILLUMINATION CONTROL SIGNAL
27	R	AIR BAG SIGNAL
28	R	SECURITY SIGNAL
30	GR	VEHICLE SPEED SIGNAL (B-PULSE)
32	W	COMMUNICATION SIGNAL (METER - UPPER)
33	LG	CLOCK SIGNAL
34	L	PLUG IN INDICATOR LAMP SIGNAL
38	V	LED HEADLAMP (RH) WARNING SIGNAL
39	LG	LED HEADLAMP (LH) WARNING SIGNAL
40	Y	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)

Connector No.	M37
Connector Name	EPS CONTROL UNIT
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	CAN-L
2	L	CAN-H
4	V	POWER SUPPLY (POWER SWITCH)

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M38
Connector Name	EPS CONTROL UNIT
Connector Type	LO2FB-MC



Terminal No.	Color of Wire	Signal Name [Specification]
9	R	POWER SUPPLY (12 V BATTERY)
10	B	GROUND

Connector No.	M39
Connector Name	BLOWER MOTOR
Connector Type	TM02FW



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

Connector No.	M40
Connector Name	UPPER METER
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BATTERY POWER SUPPLY
2	BR	POWER SWITCH SUPPLY

3	V	ILLUMINATION CONTROL SIGNAL
4	LG	CLOCK SIGNAL
7	GR	GROUND
9	W	COMMUNICATION SIGNAL (METER → UPPER)



Connector No.	M41
Connector Name	IN-VEHICLE SENSOR
Connector Type	A02FW



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	IN-VEHICLE SENSOR SIGNAL
2	R	SENSOR GROUND

Connector No.	M42
Connector Name	INTAKE SENSOR
Connector Type	TM02FBR



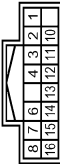
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	INTAKE SENSOR SIGNAL
2	R	SENSOR GROUND

Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TH04FW



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

Connector No.	M47
Connector Name	APPROACHING VEHICLE SOUND FOR RESTRANS (VSP) CONTROL UNIT
Connector Type	TH18FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GROUND
2	L	COMMUNICATION SIGNAL (METER → VSP)
3	SB	POWER SWITCH SIGNAL
4	P	COMMUNICATION SIGNAL (VSP → METER)
6	Y	CHARGE PULSE SIGNAL
7	L	VSP SPEAKER SIGNAL (-)
8	Y	VSP SPEAKER SIGNAL (+)
10	GR	K-LINE (CONSULT)
11	GR	POWER SWITCH SUPPLY
12	SB	STOP LAMP SWITCH SIGNAL
13	L	BATTERY POWER SUPPLY
14	LG	VSP WARNING LAMP
15	R	START UP SOUND SPEAKER SIGNAL (-)
16	W	START UP SOUND SPEAKER SIGNAL (+)

Connector No.	M48
Connector Name	START UP SOUND SPEAKER
Connector Type	NS02FW-CS



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

Connector No.	M49
Connector Name	NATS ANTENNA AMP.
Connector Type	TH04FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	BAT
2	P	CLK
3	LG	DATA
4	B	GROUND

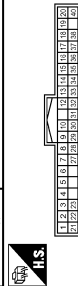
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CONNECTOR INFORMATION

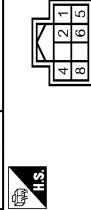
< WIRING DIAGRAM >

MAIN HARNESS

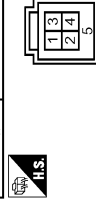
Connector No.	M50
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH



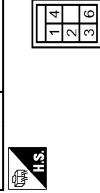
Connector No.	M51
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH08FW-NH



Connector No.	M53
Connector Name	USB CONNECTOR
Connector Type	HA04MF

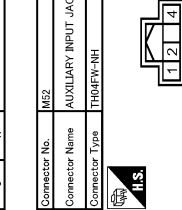


Connector No.	M55
Connector Name	AIR MIX DOOR MOTOR
Connector Type	MA04MF

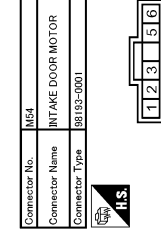


Terminal No.	Color of Wire	Signal Name [Specification]
1	V	REC
2	R	MODE4
3	P	MODE3
4	Y	MODE2
5	V	MODE1
6	BR	MIX4
7	SB	MIX3
8	LG	MIX2
9	L	MIX1
10	B	GROUND
12	GR	BLOWER PWM
13	V	W/PUMP PWM
14	L	COMP TX
15	W	RR DEF SW O/P
16	LG	HEATED STEERING WHEEL SWITCH SIGNAL
17	R	W/PUMP F/B
18	W	COMP RX
19	W	LIGHT+
20	B	LIGHT-
21	G	FRESH
22	V	HEATED STEERING WHEEL RELAY CONTROL SIGNAL
23	SB	SEAT HEAT RELAY
27	W	SV OUT
28	L	EV CAN-H
29	G	EV CAN-L
30	R	SENS ON/OFF
31	W	BATT
32	Y	IGN 1
33	LG	INCAR SENS
34	G	INTAKE SENS
35	P	SUN SENS
36	GR	AME SENS
37	BR	WATER SENS
38	SB	INT F/B
40	SB	P/TG LIN

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	LG	-
4	R	-
5	B	-
6	SB	-
8	W	-



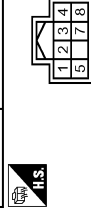
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	L	-
3	G	-
4	R	-
5	SHIELD	-



Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	A/MIX DRIVE SIGNAL 2
2	W	IGNITION POWER SUPPLY
3	BR	A/MIX DRIVE SIGNAL 4
4	L	A/MIX DRIVE SIGNAL 1
6	SB	A/MIX DRIVE SIGNAL 3

Connector No.	M54
Connector Name	INTAKE DOOR MOTOR
Connector Type	B6193-0001

Connector No.	M56
Connector Name	SELECTOR INDICATOR
Connector Type	TH08FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	W	INTAKE DOOR MOTOR PWR POWER SUPPLY
2	SB	INTAKE DOOR MOTOR PWR F/B SIGNAL
3	B	GROUND
5	G	REC DRIVE SIGNAL
6	V	INTAKE DOOR MOTOR PWR F/B SIGNAL

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

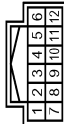
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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M67
Connector Name	ELECTRIC SHIFT SENSOR
Connector Type	TH12FW-NH



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

Connector No.	M58
Connector Name	ELECTRIC SHIFT CONTROL MODULE
Connector Type	TH120FW-TE4-TV



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MOTOR COIL A U-PHASE
2	G	MOTOR COIL A V-PHASE
3	B	GROUND
4	Y	MOTOR COIL A W-PHASE
5	B	GROUND (MOTOR)
6	W	MAIN POWER SUPPLY 1
7	R	BACK UP POWER SUPPLY
8	BR	POWER SW 1
9	Y	ANGLE SENSOR 1 POWER SUPPLY

11	L	ANGLE SENSOR 1 SIGNAL
12	W	P POSITION SIGNAL
13	R	P/N POSITION SIGNAL
14	P	STOP LAMP SWITCH
15	LG	ENCODER SIGNAL B
16	R	ENCODER POWER SUPPLY
17	V	ELECTRIC SHIFT POWER SUPPLY RELAY
18	SB	PARKING ACTUATOR RELAY A
19	P	ELECTRIC SHIFT SENSOR POWER SUPPLY 1
20	LG	WAKE UP SIGNAL
21	GR	ANGLE SENSOR 1 GND
22	L	N POSITION OUTPUT
23	G	ENCODER GND
24	W	ENCODER SIGNAL A

Connector No.	M59
Connector Name	ELECTRIC SHIFT CONTROL MODULE
Connector Type	TH120FW-TE8-TV



Terminal No.	Color of Wire	Signal Name [Specification]
25	B	GND (MOTOR)
26	R	D POSITION OUTPUT
27	BR	MOTOR COIL B U-PHASE
28	G	MOTOR COIL B V-PHASE
29	R	MOTOR COIL B W-PHASE
30	Y	R POSITION OUTPUT
31	L	EV SYSTEM CAN-H
32	G	EV SYSTEM CAN-L
33	GR	PARKING ACTUATOR RELAY B
34	LG	ELECTRIC SHIFT SENSOR NO. 1
35	L	ELECTRIC SHIFT SENSOR NO. 2
36	P	ELECTRIC SHIFT SENSOR NO. 3
37	Y	ELECTRIC SHIFT SENSOR NO. 4
38	B	P POSITION OUTPUT
39	LG	ANGLE SENSOR 2 POWER SUPPLY
40	P	ANGLE SENSOR 2 SIGNAL
41	BR	ELECTRIC SHIFT SENSOR GND 1
42	G	POWER SW 2
43	W	MAIN POWER SUPPLY 2
44	SB	ELECTRIC SHIFT SENSOR NO. 5
45	BR	ELECTRIC SHIFT SENSOR NO. 6
46	R	P POSITION SWITCH NO. 7

47	B	P POSITION SWITCH NO. 8
48	SB	ELECTRIC SHIFT SENSOR SUPPLY 2
49	G	ANGLE SENSOR 2 GND
50	LG	ELECTRIC SHIFT SENSOR GND 2

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



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

Connector No.	M61
Connector Name	AIR BAG DIAGNOSIS SENSOR UNIT
Connector Type	NH28FY-EX



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	IGN
2	B	GROUND
3	Y	DP 1 (+)
4	GR	DP 1 (-) DP2 (+)
5	V/V	DP 2 (+)
6	Y/G	AS1 (+)
7	Y/B	AS1 (-)
8	Y/L	AS2 (+)
9	Y/W	AS2 (-)
10	R	EGS (+)
11	W	EGS (-)
12	SHIELD	SHIELD
13	R	AIR BAG W/L
14	LG	SEAT BELT W/L

25	R	CUTOFF TELLTALE
51	Y	FMVSS SENS RH+
52	BR	FMVSS SENS RH-
53	G	FMVSS SENS LH+
54	R	FMVSS SENS LH-
59	L	CAN-H
60	P	CAN-L

Connector No.	M63
Connector Name	FRONT PASSENGER AIR BAG OFF INDICATOR
Connector Type	LA055FB



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	VSP WARNING LAMP
2	B	VSP WARNING LAMP
3	BR	VSP WARNING LAMP
4	LG	VSP WARNING LAMP

Connector No.	M65
Connector Name	IMMEDIATE CHARGING SWITCH
Connector Type	TH08FY-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	SB	-
3	W	ILLUMINATION +
4	B	ILLUMINATION -

CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
2	L	COMBI SW INPUT 5
3	GR	COMBI SW INPUT 4
4	BR	COMBI SW INPUT 3
5	G	COMBI SW INPUT 2
6	V	COMBI SW INPUT 1
7	GR	KEY CYL UNLK SW
8	R	KEY CYL LOCK SW
9	BR	STOP LAMP SW 1
12	Y	DOOR LK & UNLK SW LOCK
13	BR	DOOR LK & UNLK SW UNLOCK
14	G	OPTICAL SENS
15	W	REAR WINDOW DEF SW
16	R	DIMMER
17	Y	OPTICAL SENS PWR SPLY
18	V	SENS/RECEV GND
21	P	NATS ANTENNA AMP
23	R	SECURITY IND LAMP CONT
24	SB	DONGLE LINK
25	LG	NATS ANTENNA AMP
29	P	HAZARD SW
30	L	BK DOOR OPENER SW
31	W	DR DOOR UNLK SENS
32	LG	COMBI SW OUTPUT 5
33	Y	COMBI SW OUTPUT 4
34	W	COMBI SW OUTPUT 3
35	R	COMBI SW OUTPUT 2
36	P	COMBI SW OUTPUT 1
37	W	P POSITION
38	SB	RECEIVER COMMI
39	L	CAN-H
40	P	CAN-L

Connector No.	M69
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-FHAF-SA



56	57	58	59	60	61	62	63	64	65	66	67	68	69	70
65	64	63	62	61	60	59	58	57	56	69	68	67	66	65

Terminal No.	Color of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	P	BAT (FUSE)
59	LG	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	W	TURN SIG RH OUTPUT
63	BR	INT ROOM LAMP CONT
65	V	ALL DOOR LOCK OUTPUT
66	G	DR DOOR UNLK OUTPUT
67	B	GND
68	L	PW PWR SPLY (ON)
69	P	PW PWR SPLY (BAT)
70	Y	BAT (F/L)

Connector No.	M70
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FW-NH



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

Terminal No.	Color of Wire	Signal Name [Specification]
75	LG	DR DOOR REQ SW
76	SB	POWER SW (FUSH SW)
78	P	DRIVER DOOR ANTI+
79	V	DRIVER DOOR ANTI-
80	LG	PASS DOOR ANTI+
81	Y	PASS DOOR ANTI-
82	W	REAR BUMPER ANTI+
83	B	REAR BUMPER ANTI-
84	BR	ROOM ANTI 1+
85	Y	ROOM ANTI 1-

86	G	ROOM ANTI 2+
87	R	ROOM ANTI 2-
88	V	LUGGAGE ROOM ANTI+
89	LG	LUGGAGE ROOM ANTI-
90	W	POWER SW ILL PWR
91	V	ACC / ON IND
92	B	POWER SW ILL GND CONT
93	GR	H-KEY WARN BUZZER
96	BR	ACC RELAY CONT
97	W	READY
98	G	IGN RELAY (JPM E/R) CONT
99	R	IGN RELAY (F/B) CONT
100	P	PASS DOOR REQ SW
102	R	P/N POSITION
104	LG	WAKE-UP
105	P	STOP LAMP SW 2

Connector No.	M71
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-MZ-LC



1	2	3	4	5
5	4	3	2	1

Terminal No.	Color of Wire	Signal Name [Specification]
1	SB	-
2	V	-
3	G	-
5	R	-

Connector No.	M74
Connector Name	SUNLOAD SENSOR
Connector Type	A02EW



1	2
2	1

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

1	P	SUNLOAD SENSOR SIGNAL
2	R	SENSOR GROUND

Connector No.	M75
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH04FW-NH



1	2	3	4
4	3	2	1

Terminal No.	Color of Wire	Signal Name [Specification]
1	G	POWER
2	SB	SIGNAL
4	V	GROUND

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80FW-CS16-TM4



44	GR	-
45	P	-
46	R	-
47	W	-
48	L	-
49	G	-
50	L	-
51	L	-
54	W	-
55	G	-
56	BR	-
57	P	-
58	R	-
60	Y	-
61	GR	-
62	SB	-
63	Y	-
64	G	-
65	V	-
66	P	-
67	Y	-
68	P	-
69	BR	-
71	Y	-
72	L	-
73	G	-
74	L	-
75	V	-
76	R	-
80	W	-
81	L	-
82	SB	-
83	R	-
84	BR	-
85	R	-
86	GR	-
88	R	-
89	W	-
90	SHIELD	-
91	Y	-
92	BR	-
93	W	-
94	P	-
95	V	-
96	P	-
97	G	-
98	R	-
99	LG	-

Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	V	-
3	GR	-
4	LG	-
6	W	-
7	V	-
8	P	-
9	SB	-
10	L	-
11	LG	-
12	W	-
13	R	-
14	Y	-
15	R	-
16	G	-
17	BR	-
19	G	-
20	G	-
21	P	-
22	LG	-
23	GR	-
24	L	-
25	Y	-
26	G	-
27	L	-
28	V	-
29	W	-
30	W	-
31	SB	-
32	LG	-
33	V	-
34	L	-
35	SB	-
36	LG	-
38	GR	-
40	Y	-
41	R	-
42	W	-
43	SB	-

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	LU2MB-MC



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

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
8	BR	-
11	P	-
12	G	-
17	G	-
18	V	-
20	B	-
21	W	-
22	V	-
23	LG	-
24	SHIELD	-

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	MM4FW-LC



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

Connector No.	M83
Connector Name	AV CONTROL UNIT
Connector Type	TH18FW-CS2



Terminal No.	Color of Wire	Signal Name [Specification]
2	L	SOUND SIGNAL FRONT LH (+)
3	P	SOUND SIGNAL FRONT LH (-)
4	V	SOUND SIGNAL REAR LH (+)
5	R	SOUND SIGNAL REAR LH (-)
6	BR	STEERING SWITCH SIGNAL A
7	L	ACC POWER SUPPLY
8	B	GROUND
9	W	ILLUMINATION SIGNAL
11	G	SOUND SIGNAL FRONT RH (+)
12	R	SOUND SIGNAL FRONT RH (-)
13	LG	SOUND SIGNAL REAR RH (+)
14	GR	SOUND SIGNAL REAR RH (-)
15	SHIELD	STEERING SWITCH SIGNAL GROUND
16	Y	STEERING SWITCH SIGNAL B
19	BR	BATTERY POWER SUPPLY

CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M84
Connector Name	AV CONTROL UNIT
Connector Type	TH40FW-NH



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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Terminal No.	Color of Wire	Signal Name [Specification]
21	LG	AV COMM (L)
22	SB	AV COMM (H)
23	LG	AV COMM (L)
24	SB	AV COMM (H)
25	P	CAN-L
26	L	CAN-H
28	GR	VEHICLE SPEED SIGNAL (G-PULSE)
29	BR	PARKING BRAKE SIGNAL
30	G	REVERSE SIGNAL
31	V	POWER SWITCH ON SIGNAL
32	R	DIMMER SIGNAL
46	L	MICROPHONE SIGNAL
47	Y	MICROPHONE VCC
48	SHIELD	MICROPHONE SHIELD
49	R	AUX SOUND SIGNAL LH (+)
50	W	AUX SOUND SIGNAL RH (+)
51	B	AUX SOUND SIGNAL (-)
52	SHIELD	SHIELD
56	B	CAMERA CONNECTION RECOGNITION SIGNAL
57	R	CAMERA POWER SUPPLY
58	W	CAMERA GROUND
59	R	CAMERA IMAGE SIGNAL
60	SHIELD	SHIELD

Connector No.	M85
Connector Name	AV CONTROL UNIT
Connector Type	HA416E5Y



61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

Terminal No.	Color of Wire	Signal Name [Specification]
61	SB	U-VOICE SIGNAL
62	P	VOICE GROUND
66	P	MANUFACTURE SPECIFIC SIGNAL
67	L	USB VBUS SIGNAL
68	Y	D-VOICE SIGNAL
69	O	USB D+ SIGNAL
75	-	USB GROUND
76	LG	USB D- SIGNAL
77	-	SHIELD

Connector No.	M86
Connector Name	AV CONTROL UNIT
Connector Type	HA404FL



75	80	81	82
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Terminal No.	Color of Wire	Signal Name [Specification]
78	G	USB GROUND
79	R	USB D- SIGNAL
80	W	V BUS SIGNAL
81	L	USB D+ SIGNAL
82	SHIELD	SHIELD

Connector No.	M87
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



1	2	3	4	5
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Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	Y	-
3	P	-
4	R	-

5	W	-
---	---	---

Connector No.	M89
Connector Name	WIRE TO WIRE
Connector Type	M02FW-LC



1	2
---	---

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

Connector No.	M81
Connector Name	DONGLE UNIT
Connector Type	NS30FBR-CS



1	2	3	4	5	6	7
---	---	---	---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GROUND
7	SB	INTERFACE

Connector No.	M82
Connector Name	REAR HEATED SEAT RELAY
Connector Type	MS02FM-M-LC



3	5	2	1
---	---	---	---

Terminal No.	Color of Wire	Signal Name [Specification]
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1	B	-
2	R	-
3	P	-
5	R	-

Connector No.	M88
Connector Name	PASSENGER AIR BAG MODULE
Connector Type	RK04FY-BD



4	3	2	1
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Terminal No.	Color of Wire	Signal Name [Specification]
1	Y/G	-
2	Y/B	-
3	Y/L	-
4	Y/V	-

Connector No.	M89
Connector Name	WIRE TO WIRE
Connector Type	TH40FW-NH



4	3	2	1
---	---	---	---





























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

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No. M100	Signal Name [Specification] WIPE TO WIRE	Terminal No. 10	Color of Wire -	Connector No. M302	Signal Name [Specification] COMBINATION SWITCH (SPIRAL CABLE)	Terminal No. 10	Color of Wire -	Connector No. M308	Signal Name [Specification] WIPE TO WIRE	Terminal No. 1	Color of Wire -
Connector Type TH04MW-NH		11	-	Connector Type TH08FGY		11	-	Connector Type GT13SS-1/TS-HU		2	-
											
Connector No. M101	Signal Name [Specification] CHARGING STATUS INDICATOR	Terminal No. 1	Color of Wire V	Connector No. M304	Signal Name [Specification] DRIVER AIR BAG MODULE	Terminal No. 13	Color of Wire R	Connector No. M309	Signal Name [Specification] WIPE TO WIRE	Terminal No. 1	Color of Wire -
Connector Type TH04FW-NH		2	P	Connector Type ACA02FOR		14	W	Connector Type GT13SSM-1/1PP-HU		2	-
		3	SB			15	L				
Connector No. M102	Signal Name [Specification] -	4	L	Connector No. M307	Signal Name [Specification] AV CONTROL UNIT	16	B	Connector No. M310	Signal Name [Specification] ANTENNA BASE	Terminal No. 1	Color of Wire -
				Connector Type GT13SS-1/TS-HU		17	BR	Connector Type GT13SSM-1/1PP-HU		2	-
Connector No. M103	Signal Name [Specification] -	Terminal No. 1	Color of Wire V	Connector No. M308	Signal Name [Specification] GPS ANTENNA SIGNAL	18	G	Connector No. M311	Signal Name [Specification] ANTENNA AMP. ON SIGNAL	Terminal No. 1	Color of Wire -
Connector Type ACA02FT-2V		2	P	Connector Type ACA02FT-2V		19	Y	Connector Type GT13SSM-1/1PP-HU		2	-
		3	SB			20	Y				
Connector No. M104	Signal Name [Specification] -	4	L	Connector No. M309	Signal Name [Specification] SHIELD	Terminal No. 83	Color of Wire -	Connector No. M312	Signal Name [Specification] ANTENNA AMP. ON SIGNAL	Terminal No. 1	Color of Wire -
				Connector Type GT13SS-1/TS-HU		84	-	Connector Type GT13SSM-1/1PP-HU		2	-
Connector No. M105	Signal Name [Specification] HEATED STEERING WHEEL	Terminal No. 85	Color of Wire -	Connector No. M310	Signal Name [Specification] Radio antenna signal	Terminal No. 86	Color of Wire -	Connector No. M313	Signal Name [Specification] ANTENNA AMP. ON SIGNAL	Terminal No. 1	Color of Wire -
Connector Type NS02FW		86	-	Connector Type GT13SS-1/TS-HU			-	Connector Type GT13SSM-1/1PP-HU		2	-
											

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CONNECTOR INFORMATION

< WIRING DIAGRAM >

MAIN HARNESS

Connector No.	M311
Connector Name	TGU
Connector Type	GT16C-IS-HJ



Terminal No.	Color of Wire	Signal Name [Specification]
58	-	TEL ANTENNA SIGNAL
59	-	SHIELD

Connector No.	M312
Connector Name	AV CONTROL UNIT
Connector Type	FAKPA-JACK



Terminal No.	Color of Wire	Signal Name [Specification]
87	-	SATELLITE ANTENNA

Connector No.	M313
Connector Name	WIRE TO WIRE
Connector Type	GT16C-IS-HJ/A



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

Connector No.	M314
Connector Name	WIRE TO WIRE
Connector Type	GT16C-PP-HJ/A



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

Connector No.	M315
Connector Name	ANTENNA BASE
Connector Type	GT16C-TPP-HJ(B)



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

Connector No.	M320
Connector Name	P POSITION SWITCH
Connector Type	-



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y	-
3	GR	-

Connector No.	M340
Connector Name	WIRE TO WIRE
Connector Type	TH88MM



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	-
2	-	-
3	-	-
4	-	-
5	-	-

Connector No.	M342
Connector Name	MODE DOOR MOTOR
Connector Type	-



Terminal No.	Color of Wire	Signal Name [Specification]
1	-	MODE DRIVE SIGNAL 1
2	-	MODE DRIVE SIGNAL 2
3	-	MODE DRIVE SIGNAL 3
4	-	MODE DRIVE SIGNAL 4
5	-	IGNITION POWER SUPPLY

Connector No.	M343
Connector Name	WIRE TO WIRE
Connector Type	MO4MW



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

Connector No.	M344
Connector Name	POWER TRANSISTOR
Connector Type	-



Terminal No.	Color of Wire	Signal Name [Specification]
1	R	BLOWER MOTOR CONTROL OUTPUT
2	G	POWER TRANSISTOR CONTROL SIGNAL
3	B	GROUND
4	Y	IGNITION POWER SUPPLY

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CONNECTOR INFORMATION

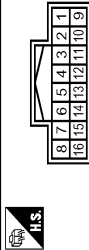
< WIRING DIAGRAM >

R Room Lamp Harness

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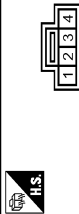
ROOM LAMP HARNESS

Connector No.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH10FW-NH



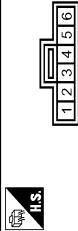
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-
3	SHIELD	-
4	B	-
5	R	-
6	Y	-
7	R	-
8	B/Y	-
9	G	-
10	B/R	-
11	B/R	-

Connector No.	R3
Connector Name	MICROPHONE
Connector Type	TK04FW



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

Connector No.	R4
Connector Name	MAP LAMP
Connector Type	TK08FG



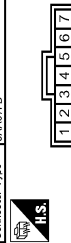
Terminal No.	Color of Wire	Signal Name [Specification]
1	V	-
2	G	-
4	B	-
5	R	-
6	Y	-

Connector No.	R5
Connector Name	ROOM LAMP
Connector Type	TB03FW



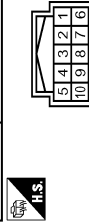
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	Y	-
3	B	-

Connector No.	R6
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	JA00TB



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

Connector No.	R7
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-NH



Terminal No.	Color of Wire	Signal Name [Specification]
6	B/R	IGN
8	B	GROUND
10	B/Y	BAT

JRMWC5151GB

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

CONNECTOR INFORMATION

< WIRING DIAGRAM >

H High Voltage Harness

INFOID:000000007828182

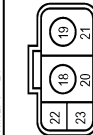
HIGH VOLTAGE HARNESS

Connector No.	H1
Connector Name	ELECTRIC COMPRESSOR
Connector Type	TM02FOR



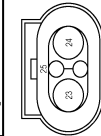
Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	O	-
9	SHIELD	-
10	SHIELD	-

Connector No.	H2
Connector Name	DC/DC-J/B
Connector Type	TM02FOR-2V



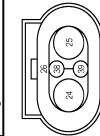
Terminal No.	Color of Wire	Signal Name [Specification]
18	O	(+)
19	O	(-)
20	SHIELD	-
21	SHIELD	-
22	O	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (IN)
23	O	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (OUT)

Connector No.	H3
Connector Name	LI-ION BATTERY
Connector Type	24342.3MA0B



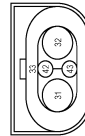
Terminal No.	Color of Wire	Signal Name [Specification]
23	O	(+)
24	O	(-)
25	SHIELD	-

Connector No.	H4
Connector Name	DC/DC-J/B
Connector Type	24342.3MA0B



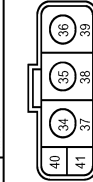
Terminal No.	Color of Wire	Signal Name [Specification]
24	O	(+)
25	O	(-)
26	SHIELD	-
27	SHIELD	-
28	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (IN)
29	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (OUT)

Connector No.	H5
Connector Name	ON BOARD CHARGER
Connector Type	24342.3MA0E



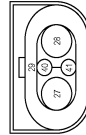
Terminal No.	Color of Wire	Signal Name [Specification]
31	O	-
32	O	-
33	SHIELD	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (OUT)
42	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (IN)
43	-	-

Connector No.	H6
Connector Name	ON BOARD CHARGER
Connector Type	TM03FOR



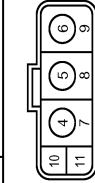
Terminal No.	Color of Wire	Signal Name [Specification]
34	O	(+)
35	O	GROUND
36	O	(-)
37	SHIELD	-
38	SHIELD	-
39	SHIELD	-
40	O	ENSE CONNECTION-DETECTING CIRCUIT (OUT)
41	O	ENSE CONNECTION-DETECTING CIRCUIT (IN)

Connector No.	H7
Connector Name	DC/DC-J/B
Connector Type	24342.3MA0E



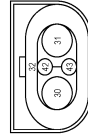
Terminal No.	Color of Wire	Signal Name [Specification]
27	O	(+)
28	O	(-)
29	SHIELD	-
40	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (IN)
41	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (OUT)

Connector No.	H8
Connector Name	NORMAL CHARGE PORT
Connector Type	HV03FOR



Terminal No.	Color of Wire	Signal Name [Specification]
4	O	-
5	O	-
6	O	-
7	SHIELD	-
8	SHIELD	-
9	SHIELD	-
10	O	-
11	O	-

Connector No.	H9
Connector Name	DC/DC-J/B
Connector Type	24342.3MA0E



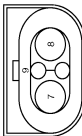
Terminal No.	Color of Wire	Signal Name [Specification]
30	O	(+)
31	O	(-)
32	SHIELD	-
42	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (IN)
43	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT (OUT)

CONNECTOR INFORMATION

< WIRING DIAGRAM >

HIGH VOLTAGE HARNESS

Connector No.	HI0
Connector Name	PTC ELEMENTS HEATER
Connector Type	24342-3MA0E



Terminal No.	Color of Wire	Signal Name [Specification]
7	O	-
8	O	-
9	SHIELD	-

Connector No.	HI1
Connector Name	DC/DC-J/B
Connector Type	24342-3MA0B



Terminal No.	Color of Wire	Signal Name [Specification]
33	O	(+)
34	O	(-)
44	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT IN
45	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT OUT

Connector No.	HI2
Connector Name	WIRE TO WIRE
Connector Type	RK02FGY



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

Connector No.	HI3
Connector Name	QUICK CHARGE PORT
Connector Type	24342-3MA2B



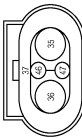
Terminal No.	Color of Wire	Signal Name [Specification]
11	O	(+)
12	O	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT IN
13	L	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT OUT

Connector No.	HI4
Connector Name	QUICK CHARGE PORT
Connector Type	24342-3MA2C



Terminal No.	Color of Wire	Signal Name [Specification]
14	O	(-)
15	L	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT IN
16	G	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT OUT

Connector No.	HI5
Connector Name	DC/DC-J/B
Connector Type	24342-3MA0B



Terminal No.	Color of Wire	Signal Name [Specification]
35	O	(+)
36	O	(-)
37	SHIELD	-
46	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT IN
47	-	HIGH VOLTAGE CABLE CONNECTION-DETECTING CIRCUIT OUT

JRMWC5338GB

12V BATTERY INSPECTION

< BASIC INSPECTION >

BASIC INSPECTION

12V BATTERY INSPECTION

How to Handle 12V Battery

INFOID:000000007796377

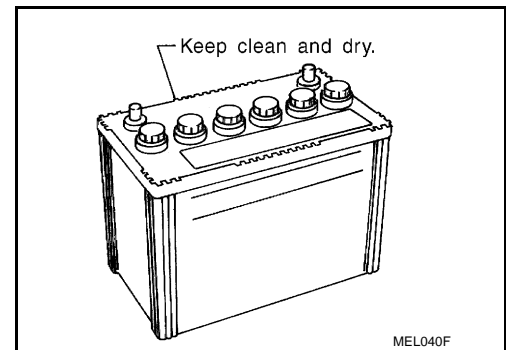
CAUTION:

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

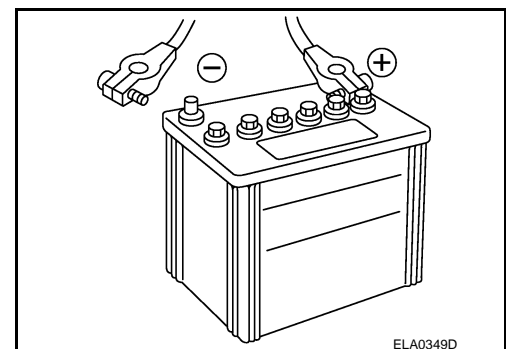
METHODS OF PREVENTING OVER-DISCHARGE

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

- The 12V 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 12V battery cable from the negative terminal. (If the vehicle has an extended storage switch, turn it off.) Refer to [PG-6, "Precautions for Removing Battery Terminal"](#).



Work Flow

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12V BATTERY DIAGNOSIS WITH EXP-800 NI OR GR8-1200 NI

To diagnose and confirm the condition of the 12V battery, use the following special service tools:

- EXP-800 NI Battery and electrical diagnostic analyzer
- GR8-1200 NI Multitasking battery and electrical diagnostic station

NOTE:

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

12V BATTERY DIAGNOSIS WITHOUT EXP-800 NI OR GR8-1200 NI

Check Electrolyte Level

WARNING:

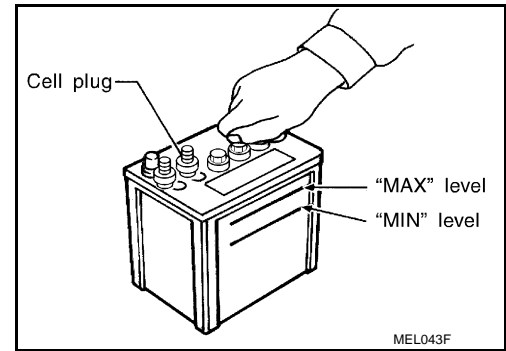
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a 12V battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.

Failure to do this may cause personal injury or damage to clothing or the painted surfaces.

12V BATTERY INSPECTION

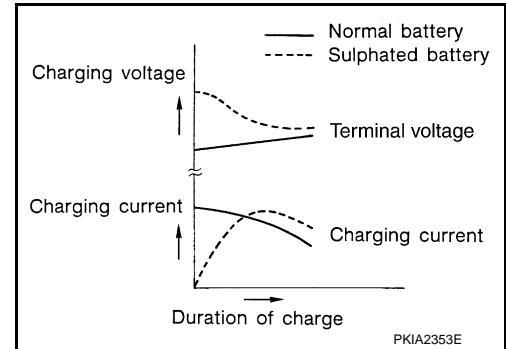
< BASIC INSPECTION >

- Remove the cell plug using a suitable tool.
- Add distilled water up to the MAX level.



SULPHATION

- A 12V battery will be completely discharged if it is left unattended for a long time and the specific gravity will become less than 1.100. This may result in sulphation on the cell plates.
- To determine if a 12V battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.
- A sulphated 12V battery may sometimes be brought back into service by means of a long, slow charge, 12 hours or more, followed by a battery capacity test.



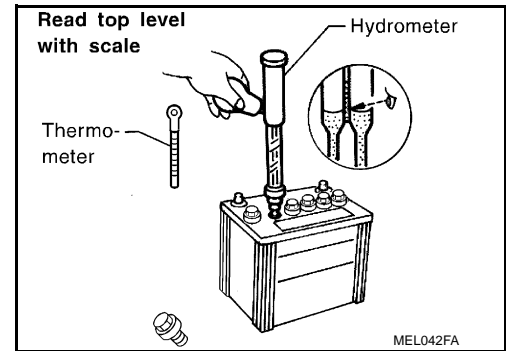
Specific Gravity Check

NOTE:

Check the charge condition of the battery.

Periodically check the specific gravity of the electrolyte. Keep a close check on charge condition to prevent over-discharge.

1. Read hydrometer and thermometer indications at eye level.
2. Use the chart below to correct your hydrometer reading according to electrolyte temperature.



Hydrometer Temperature Correction

12V Battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
71 (160)	0.032
66 (150)	0.028
60 (140)	0.024
54 (130)	0.020
49 (120)	0.016
43 (110)	0.012
38 (100)	0.008
32 (90)	0.004
27 (80)	0
21 (70)	-0.004
16 (60)	-0.008
10 (50)	-0.012

12V BATTERY INSPECTION

< BASIC INSPECTION >

12V Battery electrolyte temperature [$^{\circ}\text{C}$ ($^{\circ}\text{F}$)]	Add to specific gravity reading
4 (40)	-0.016
-1 (30)	-0.020
-7 (20)	-0.024
-12 (10)	-0.028
-18 (0)	-0.032

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

Charging The 12V Battery

CAUTION:

- Never “quick charge” a fully discharged 12V battery.
- Keep the 12V battery away from open flame while it is being charged.
- When connecting the charger, connect the leads first, then turn on the charger. Never turn on the charger first, as this may cause a spark.
- If 12V battery electrolyte temperature rises above 55°C (131°F), stop charging. Always charge battery at a temperature below 55°C (131°F).

Charging Rates (Standard Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	5	2
3/4 charged	10	1.5
1/2 charged		2.5
1/4 charged		3.5
Almost discharged		4
Completely discharged		4.5

Charging Rates (Quick Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	—	—
3/4 charged	15	1
1/2 charged	25	
1/4 charged	35	
Almost discharged	40	
Completely discharged	—	—

NOTE:

The ammeter reading on your 12V battery charger will automatically decrease as the 12V battery charges. This indicates that the voltage of the 12V battery is increasing normally as the state of charge improves. The charging amps indicated above refer to initial charge rate.

- If, after charging, the specific gravity of any two cells varies more than 0.050, the 12V battery should be replaced.

FUSE INSPECTION

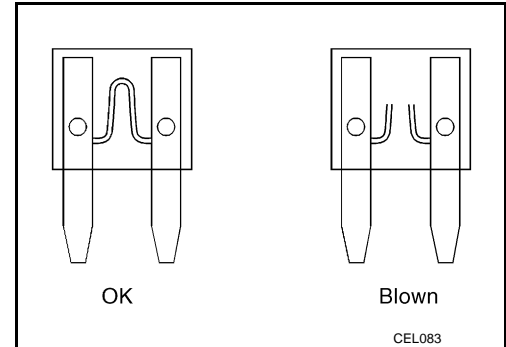
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FUSE INSPECTION

How To Check

- 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.

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FUSIBLE LINK INSPECTION

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FUSIBLE LINK INSPECTION

How To Check

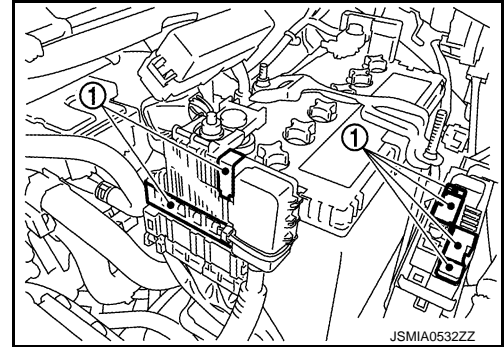
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A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

1 :Fusible link

CAUTION:

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



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12V BATTERY


< REMOVAL AND INSTALLATION >

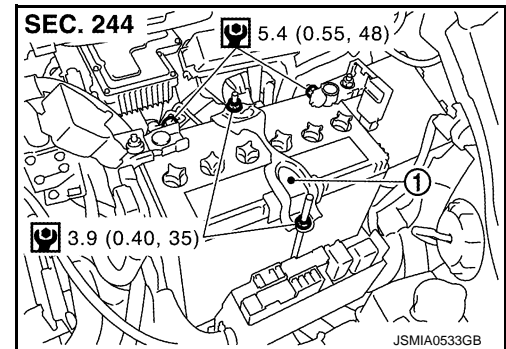
REMOVAL AND INSTALLATION

12V BATTERY

Exploded View

1 : Battery fix frame

 :N·m (kg-m, in-lb)



Removal and Installation

REMOVAL

1. Disconnect the 12V battery cable from the negative terminal. Refer to [PG-6, "Precautions for Removing Battery Terminal"](#).

CAUTION:

To prevent damage to the parts, disconnect the 12V battery cable from the negative terminal first.

2. Remove cover of 12V battery positive terminal.
3. Disconnect the 12V battery cable from the positive terminal.
4. Remove battery fix frame mounting nuts and battery fix frame.
5. Remove 12V battery.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

To install the 12V battery, carefully read the following instructions.

- **To prevent damage to the parts, connect the 12V battery cable to the positive terminal first.**
- **After connecting 12V battery cables, to securely supply 12V battery voltage, ensure that they are tightly clamped to 12V battery terminals for good contact.**
- **To securely supply 12V battery voltage, check 12V battery terminal for poor connection caused by corrosion.**

Reset electronic systems as necessary. Refer to [GI-63, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection"](#).

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BATTERY TERMINAL WITH FUSIBLE LINK

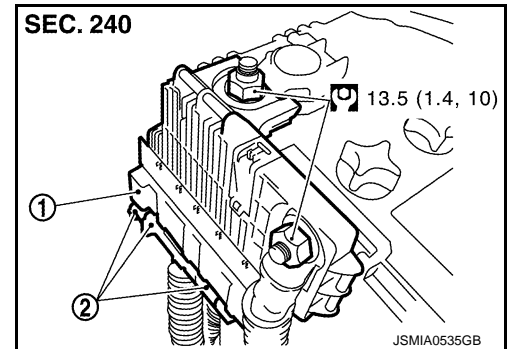
< REMOVAL AND INSTALLATION >

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

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- 1 : Battery terminal with fusible link
2 : Harness connector
 : N·m (kg·m, ft·lb)



Removal and Installation

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REMOVAL

1. Disconnect the 12V battery cable from the negative terminal. Refer to [PG-101, "Exploded View"](#) and [PG-6, "Precautions for Removing Battery Terminal"](#).

CAUTION:

To prevent damage to the parts, disconnect the 12V battery cable from the negative terminal first.

2. Remove cover of 12V battery positive terminal.
3. Disconnect the 12V battery cable from the positive terminal. Refer to [PG-101, "Exploded View"](#).
4. Open cover of harness mounting nut.
5. Remove harness mounting nut and battery terminal with fusible link mounting nut.
6. Disconnect harness connector and remove battery terminal with fusible link.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

To prevent damage to the parts, connect the 12V battery cable to the positive terminal first.


BATTERY CURRENT SENSOR

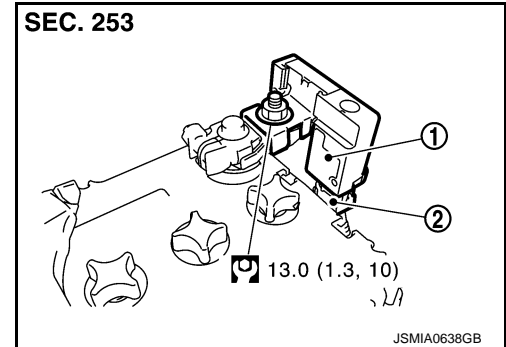
< REMOVAL AND INSTALLATION >

BATTERY CURRENT SENSOR

Exploded View

INFOID:000000007632736

- 1 : Battery current sensor
(With battery temperature sensor)
2 : Harness connector
 : N·m (kg-m, ft-lb)



Removal and Installation

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REMOVAL

1. Disconnect the 12V battery cable from the negative terminal. Refer to [PG-101, "Exploded View"](#) and [PG-6, "Precautions for Removing Battery Terminal"](#).
2. Disconnect the battery current sensor connector.
3. Remove the battery current sensor mounting nut.
4. Remove the battery current sensor from 12V battery cable.

INSTALLATION

Install in the reverse order of removal.

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SERVICE DATA AND SPECIFICATIONS (SDS)

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SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

12V Battery

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Type		55B24L(S)
20 hour rate capacity	[V – Ah]	12 – 45
Cold cranking current (For reference value)	[A]	433