

SECTION **PG**

POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

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PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:000000007078268

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

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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

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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.

Person in charge: _____

DO NOT TOUCH!

REPAIR IN PROGRESS.

HIGH VOLTAGE

DANGER:

DANGER:

HIGH VOLTAGE

REPAIR IN PROGRESS.

DO NOT TOUCH!

Person in charge: _____

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

INFOID:000000007000505

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

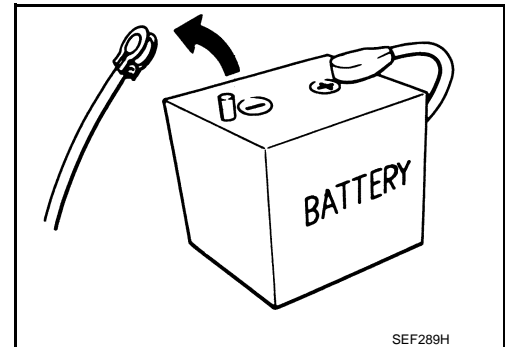
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- When removing the 12V battery terminal, turn OFF the power switch and wait at least 5 minutes.

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.

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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.

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NOTE:

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

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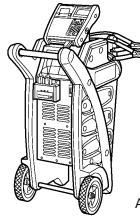
PREPARATION

PREPARATION

Special Service Tools

INFOID:000000006841313

Tool number (Kent-Moore No.) Tool name	Description
<p>— (—) Model GR-8 Multitasking battery diagnostic station</p>	<p>Tests batteries, starting and charging systems. For operating instructions, refer to diagnostic station instruction manual.</p>



AWI1A1239ZZ

COMPONENT PARTS

< SYSTEM DESCRIPTION >

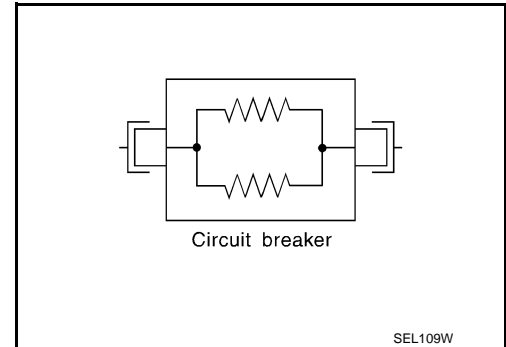
SYSTEM DESCRIPTION

COMPONENT PARTS

Circuit Breaker

INFOID:000000006968260

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:000000006968261

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:000000006968262

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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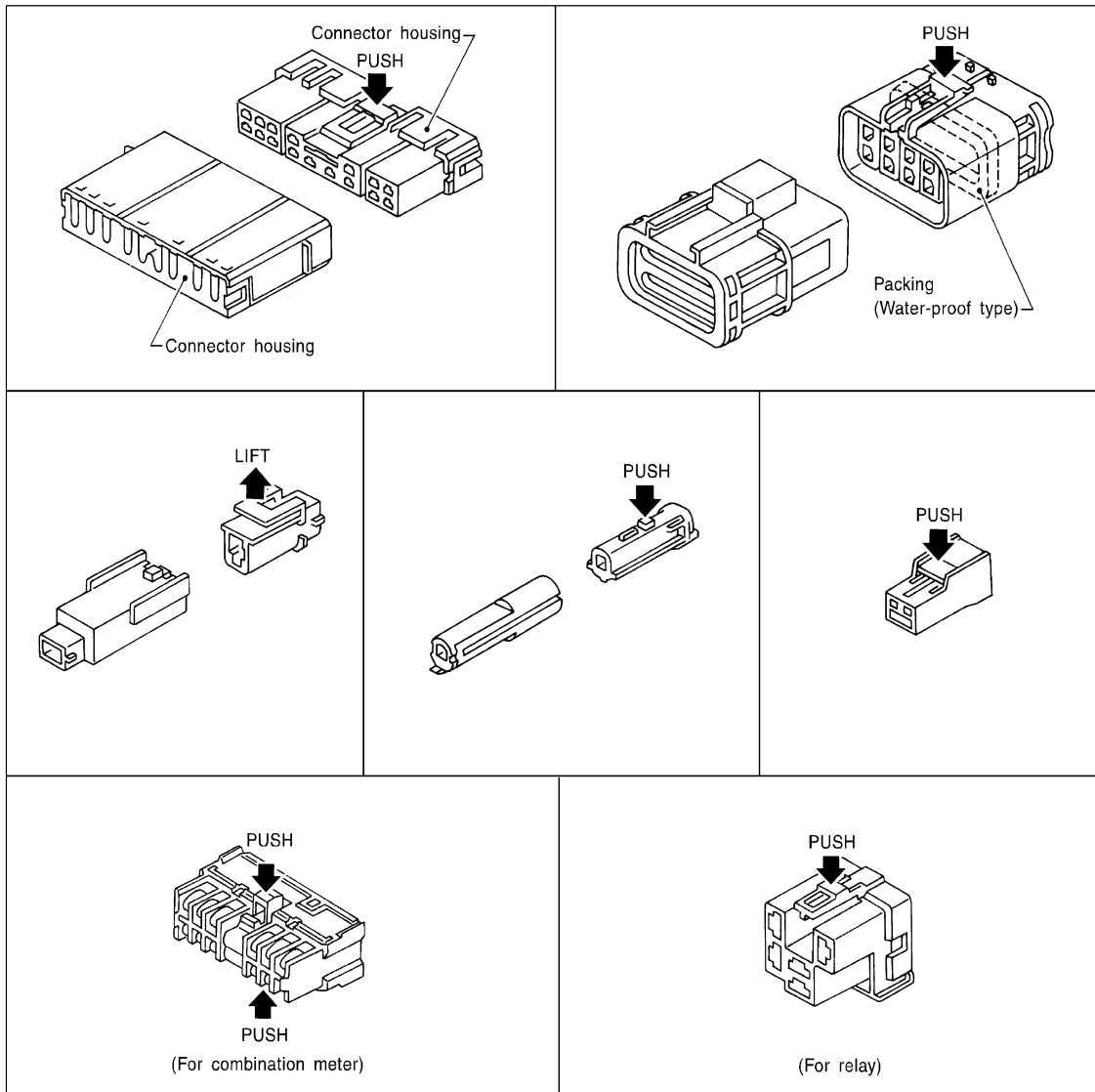
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COMPONENT PARTS

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[Example]



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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.

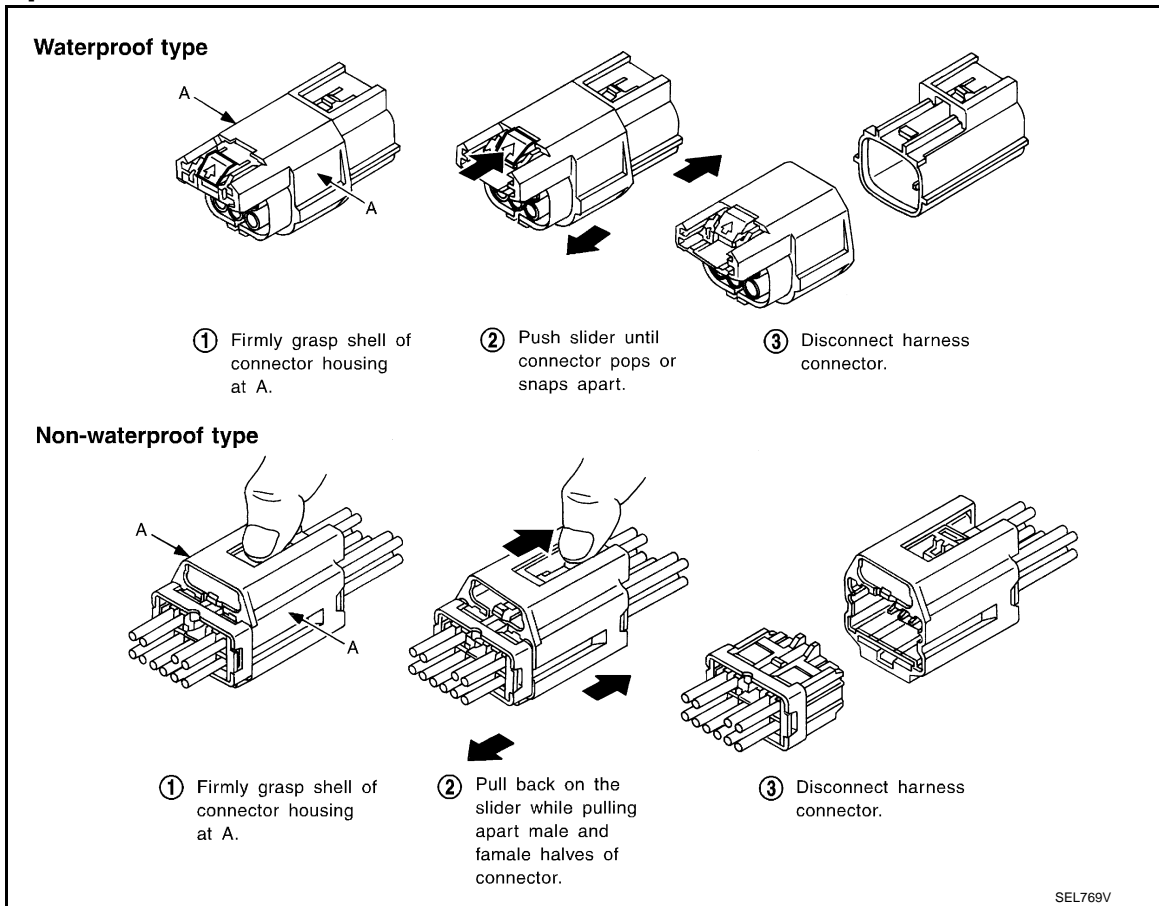
CAUTION:

- **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.

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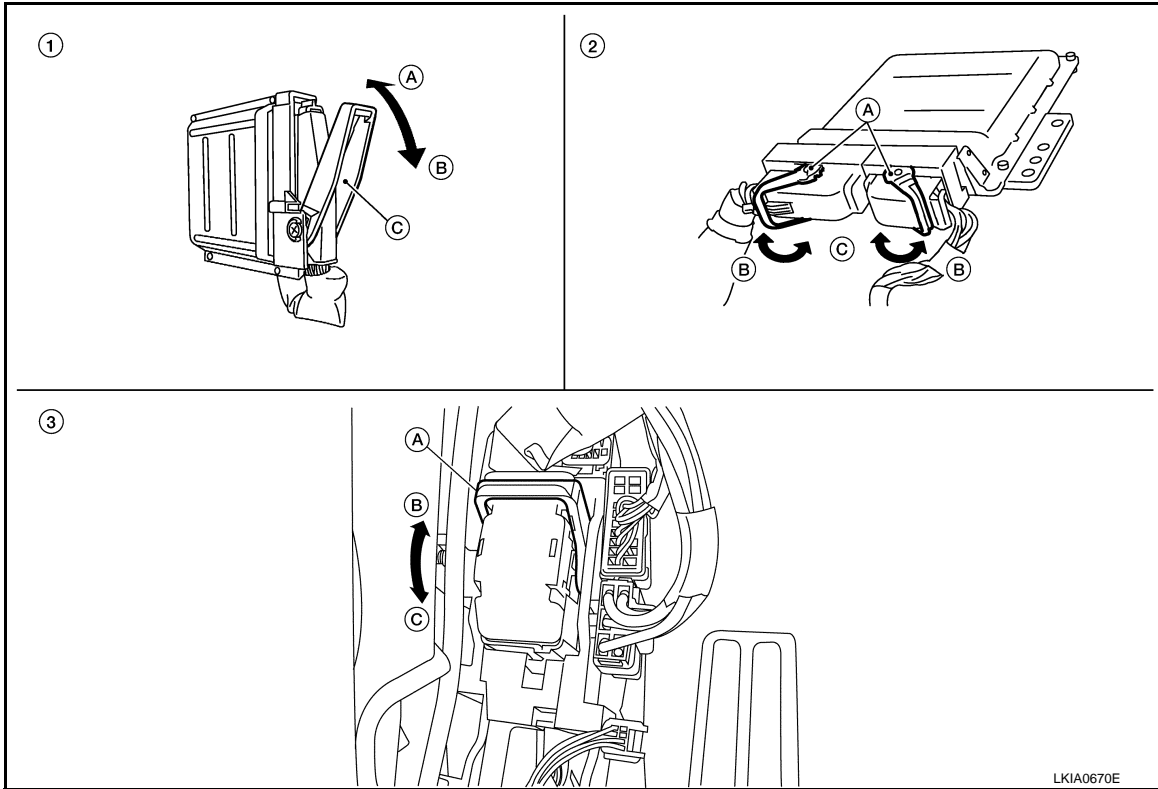
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COMPONENT PARTS

< 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.



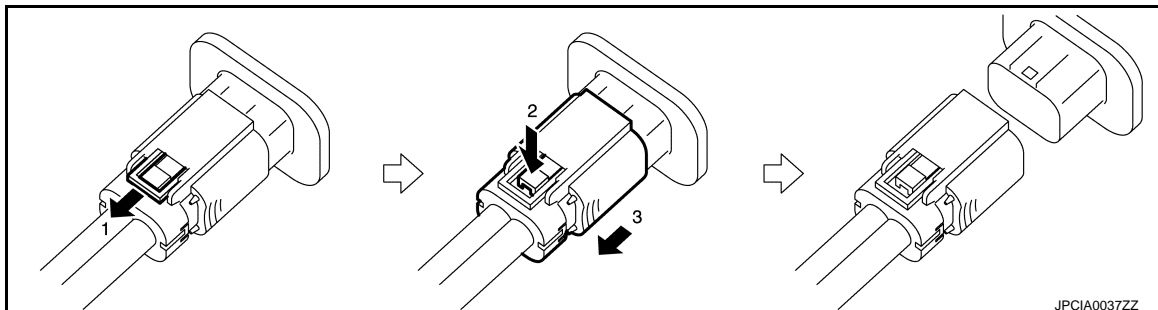
- | | | |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| <p>1. Control unit with single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

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

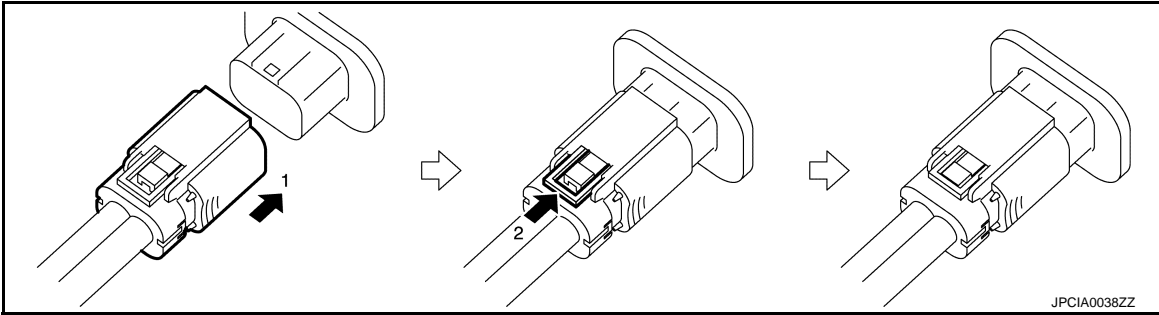


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COMPONENT PARTS

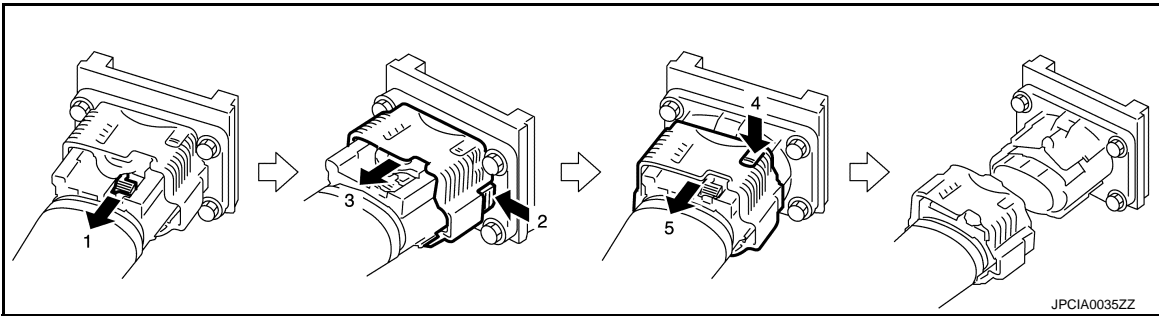
< SYSTEM DESCRIPTION >

CONNECT

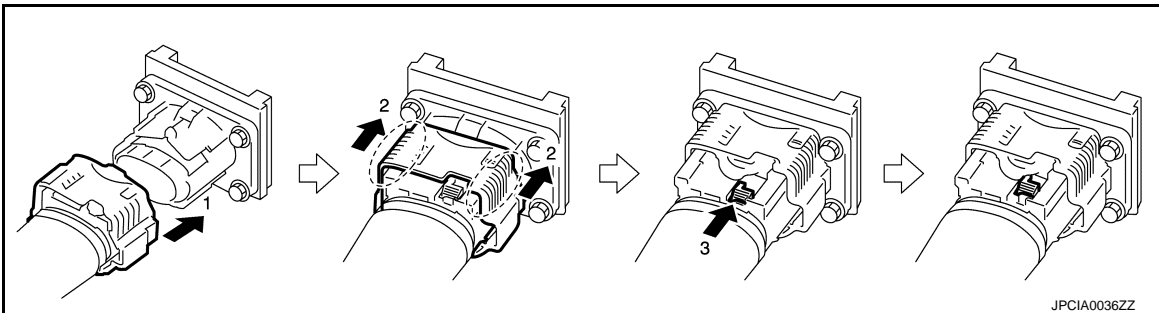


3-Step Type

DISCONNECT



CONNECT

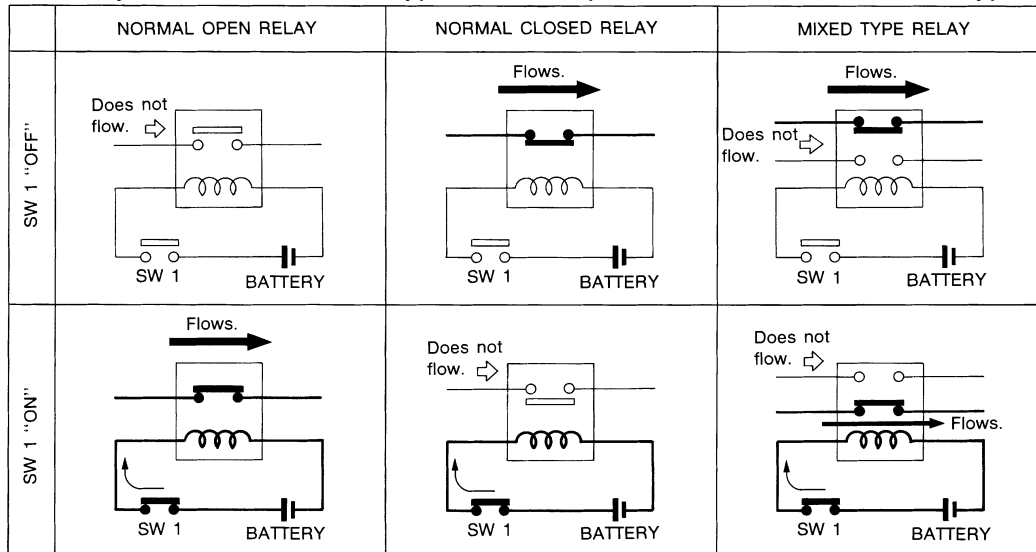


Standardized Relay

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NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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



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COMPONENT PARTS

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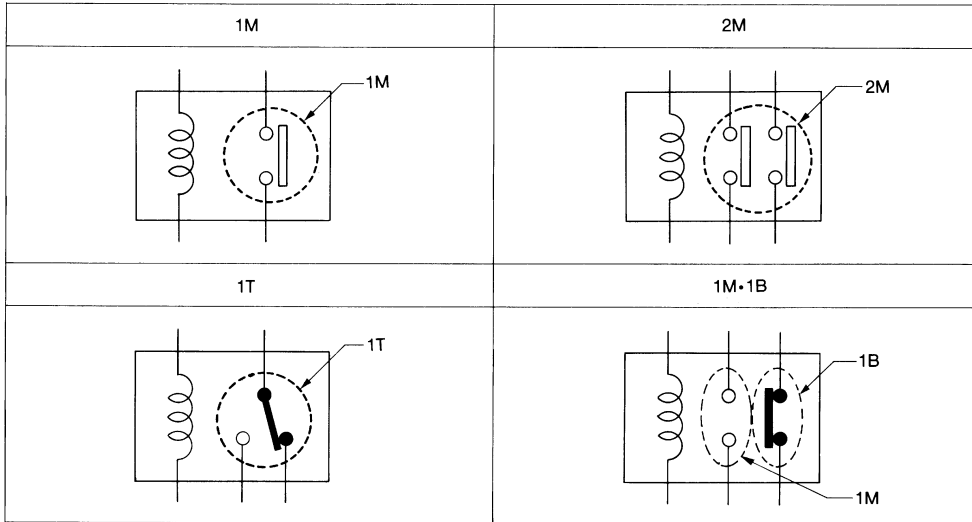
TYPE OF STANDARDIZED RELAYS

1M 1 Make

2M 2 Make

1T 1 Transfer

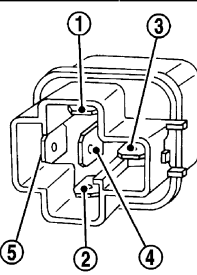
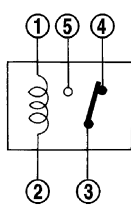
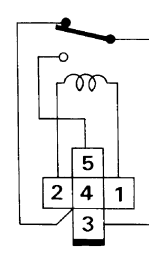
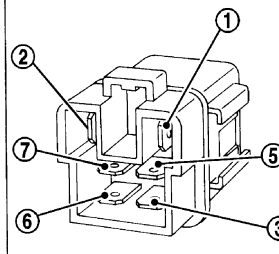
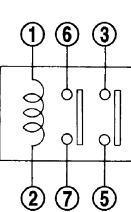
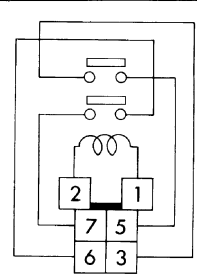
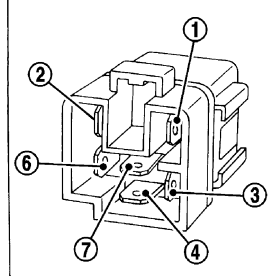
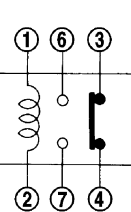
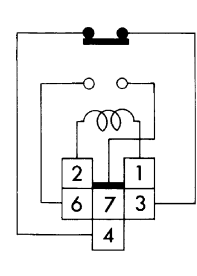
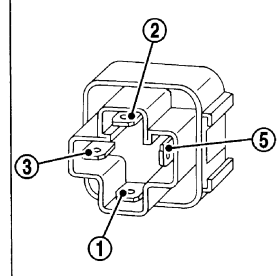
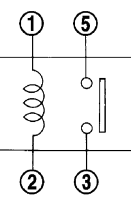
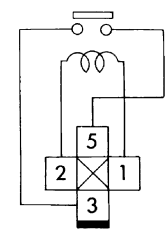
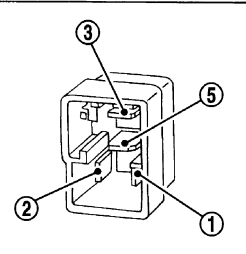
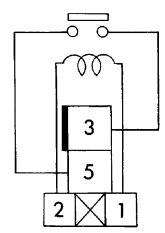
1M·1B 1 Make 1 Break



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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POWER SUPPLY ROUTING CIRCUIT

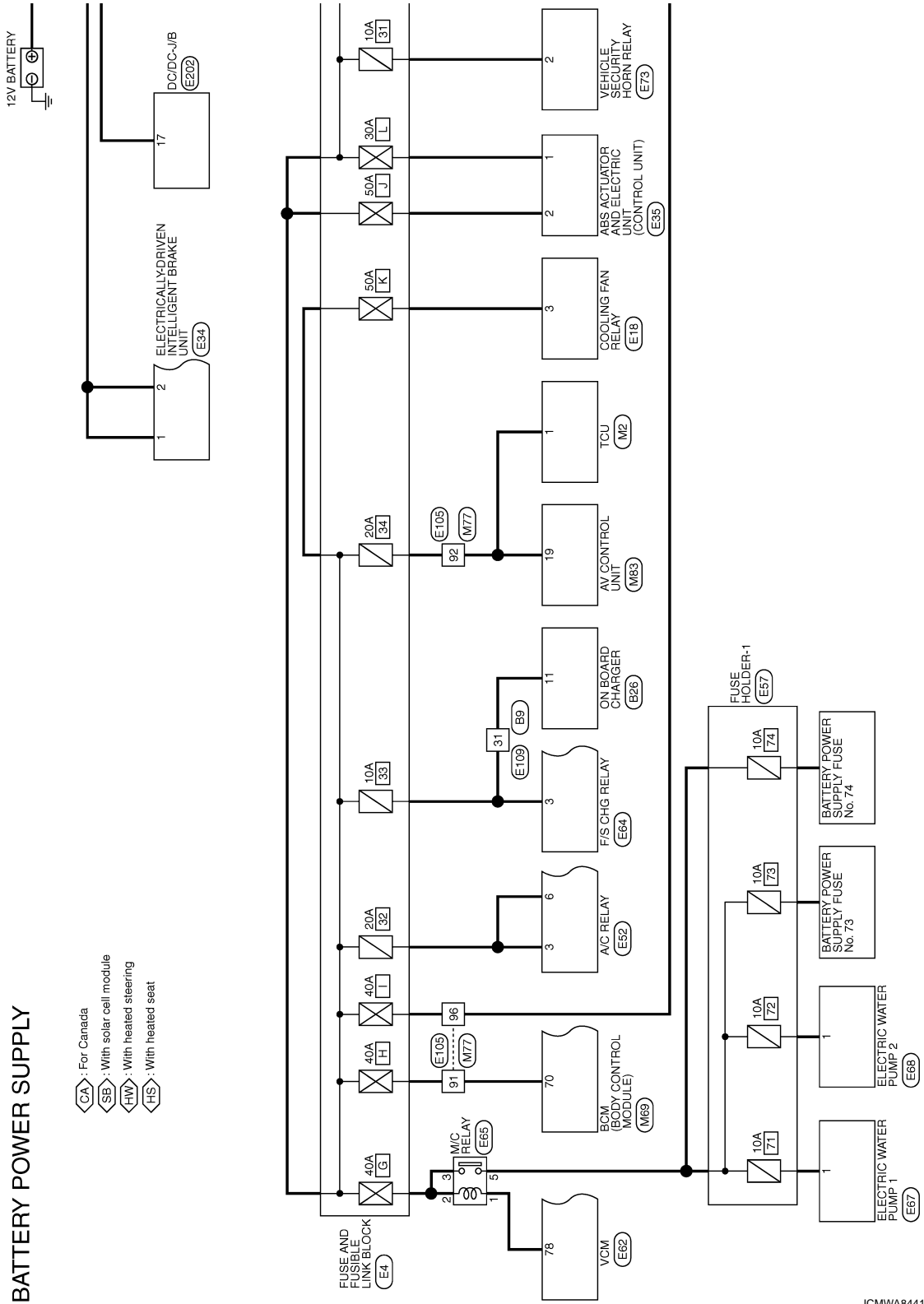
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WIRING DIAGRAM

POWER SUPPLY ROUTING CIRCUIT

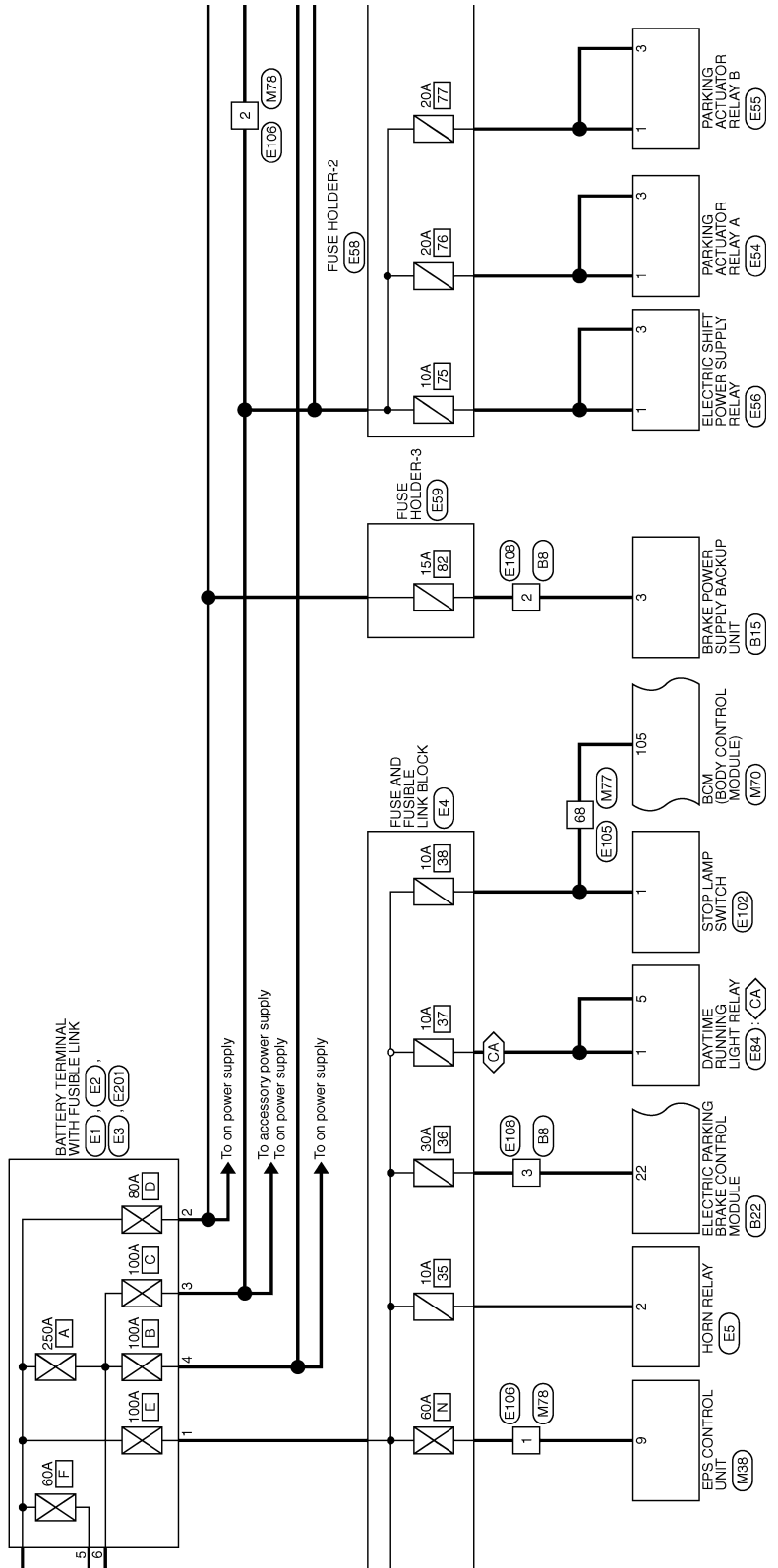
Wiring Diagram - BATTERY POWER SUPPLY -

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POWER SUPPLY ROUTING CIRCUIT

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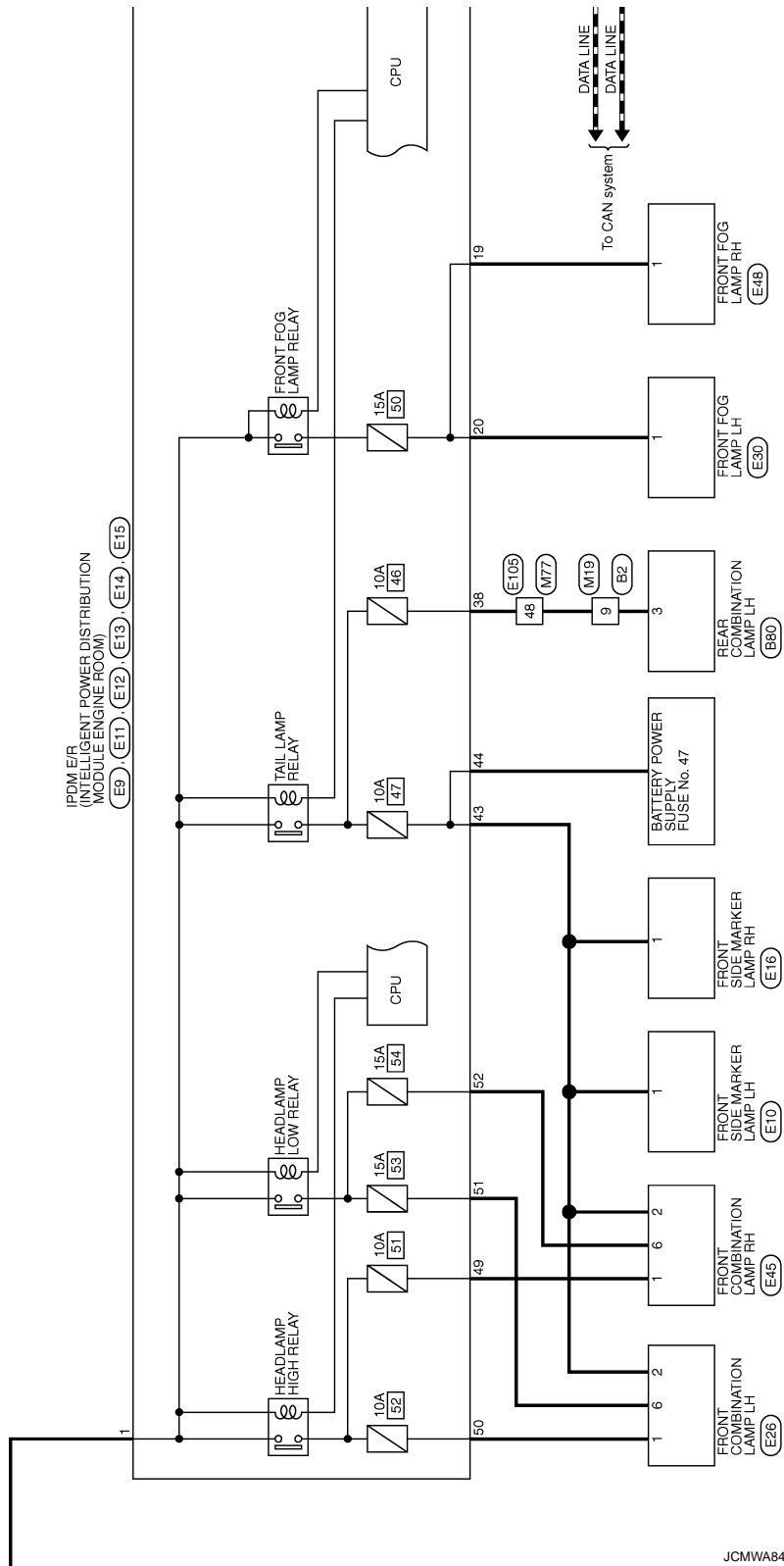


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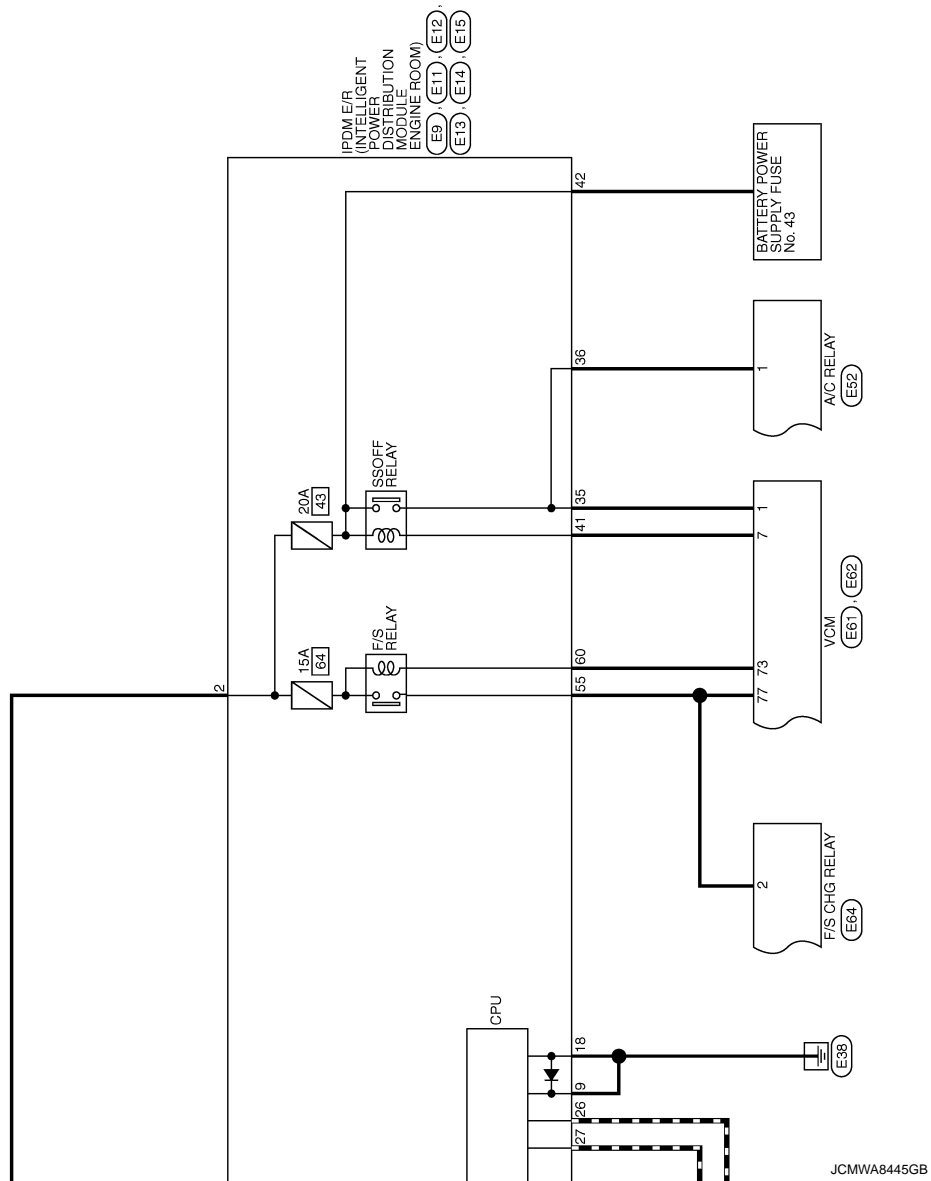


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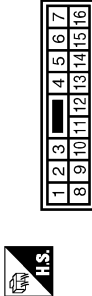


POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY

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



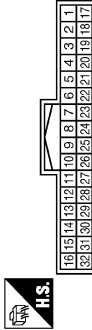
Terminal No.	Color of Wire	Signal Name [Specification]
4	V	-
7	V	-
8	P	-
9	GR	-
10	SB	-
11	V	-
12	LG	-
13	V	-
14	GR	-
15	L	-
16	G	-

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



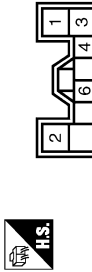
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	L	-
3	R	-
4	R	-

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



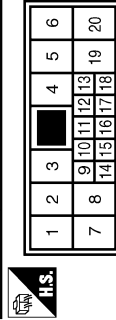
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	GR	-
3	Y	-
4	G	-
5	BR	-
6	L	-
7	B	-
8	P	-
9	SB	-
10	LG	-
11	W	-
17	R	-
18	Y	-
19	G	-
20	V	-
21	SB	-
22	P	-
23	LG	-
24	L	-
25	Y	-
26	L	-
27	G	-
28	GR	-
29	R	-
30	R	-
31	Y	-

Connector No.	B13
Connector Name	BRAKE POWER SUPPLY BACKUP UNIT
Connector Type	TB04FW-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	B	GND
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	BRAKE POWER SUPPLY BACKUP UNIT WAKEUP SIGNAL

Connector No.	B18
Connector Name	WIRE TO WIRE
Connector Type	NH10MW-CS10



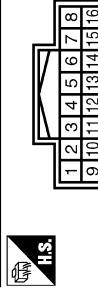
Terminal No.	Color of Wire	Signal Name [Specification]
5	P	-
6	R	-
7	P	-
9	P	-
10	Y	-
11	B	-
12	W	-
13	R	-
14	L	-
15	LG	-
17	SHIELD	-
18	B	-
20	GR	-

Connector No.	B20
Connector Name	PARKING BRAKE SWITCH
Connector Type	TK08FGY



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	SS	-
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-L
9	L	RELEASE SW SIGNAL
10	W	ANALOG SW POWER SUPPLY
12	Y	TENSION SENSOR GND
13	SB	ANALOG SW GND
15	G	BRAKE SW SIGNAL
16	L	SHIELD GND
		CAN-H

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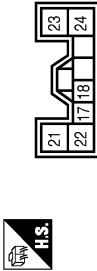
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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY

Connector No.	B22
Connector Name	ELECTRIC PARKING BRAKE CONTROL MODULE
Connector Type	TE04FV-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
17	L	ELECTRIC PARKING BRAKE CONTROL MODULE WAKEUP 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	GND

Connector No.	B26
Connector Name	ON BOARD CHARGER
Connector Type	RH12FB



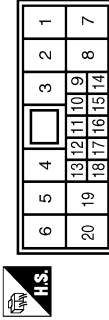
Terminal No.	Color of Wire	Signal Name [Specification]
11	V	BATTERY POWER SUPPLY
12	W	BATTERY POWER SUPPLY
13	V	POWER ON POWER SUPPLY
14	P	NORMAL CHARGE RELAY +
15	LG	NORMAL CHARGE RELAY -
16	L	QUICK CHARGE RELAY +
17	SB	QUICK CHARGE RELAY -
18	GR	EV ACTIVATION REQUEST SIGNAL
19	L	EV SYSTEM CAN-H
20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

Connector No.	B80
Connector Name	REAR COMBINATION LAMP LH
Connector Type	NS06MW-CS



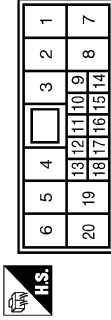
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	G	
3	GR	
4	B	
5	SB	

Connector No.	D71
Connector Name	WIRE TO WIRE
Connector Type	NH10FV-CS10



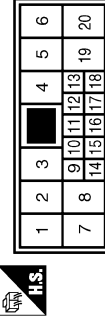
Terminal No.	Color of Wire	Signal Name [Specification]
5	W	
6	R	
7	P	
9	P	
10	P	
11	B	
12	W	
13	R	
14	L	
15	LG	
17	SHIELD	
18	Y	
20	GR	

Connector No.	D73
Connector Name	WIRE TO WIRE
Connector Type	NH10FV-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.	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	Y	
19	W	
20	GR	

18	B
20	GR

Connector No.	D104
Connector Name	COIL
Connector Type	IM01FW-US



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

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



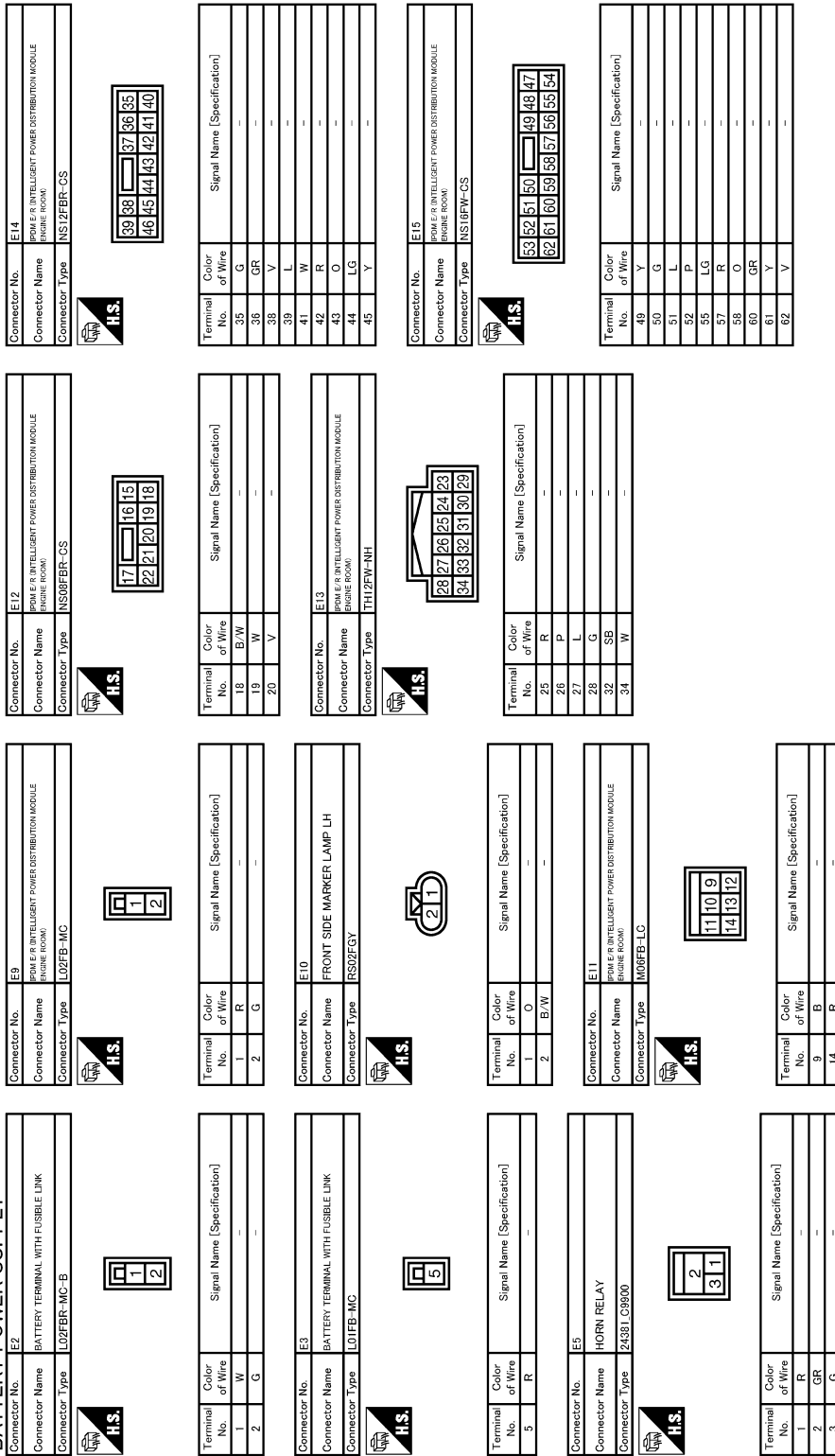
Terminal No.	Color of Wire	Signal Name [Specification]
3	R	
4	W	

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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY



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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY

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.	E18
Connector Name	COOLING FAN RELAY
Connector Type	Z4347_9F900



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

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



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

1	G	-
2	O	-
3	Y	-
4	B/W	-
5	GR	-
6	L	-
7	LG	-
8	B/W	-

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



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

Connector No.	E34
Connector Name	ELECTRICALLY-OPERATED INTELLIGENT BRAKE UNIT
Connector Type	SAZ42FB-SJ24-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 WAKEUP 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	BUIZZER SIGNAL
24	B	BRAKE COMM
25	R	BUIZZER POWER SUPPLY
26	V	POWER SWITCH ON
31	B	GND
32	W	BRAKE POWER SUPPLY BACKUP UNIT BACKUP SIGNAL
35	L/Y	STROKE SENSOR SIGNAL
37	G	STROKE SENSOR SIGNAL
38	R	PRESS SENSOR GND
40	P	CANZ-L
41	L	CANZ-H
42	P	CANI-L
43	L	CANI-H

Connector No.	E35
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	RHZ8FB-NU4-DH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MOTOR BATTERY
2	R	VALVE BATTERY
3	B	GND
4	B	GND
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	FR RH WHEEL SENSOR POWER SUPPLY
12	W	G SENSOR POWER SUPPLY
13	G	G SENSOR SIGNAL (-)
14	B	FR RH WHEEL SENSOR SIGNAL
15	LG	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	FR 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.	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	-

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



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

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY

Connector No.	E52
Connector Name	A/C RELAY
Connector Type	MS02FL-R-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	SB	-
3	R	-
5	V	-
6	R	-
7	W	-

Connector No.	E54
Connector Name	PARKING ACTUATOR RELAY A
Connector Type	MS02FL-M2-LC



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

Connector No.	E55
Connector Name	PARKING ACTUATOR RELAY B
Connector Type	MS02FL-M2-LC



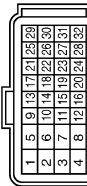
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	-
2	GR	-
3	LG	-
5	Y	-

Connector No.	E56
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.	E61
Connector Name	VCM
Connector Type	RH42FGY-RZ8-R-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	POWER ON POWER SUPPLY
4	BR	GROUND
5	SB	A/C RELAY
6	R	BATTERY POWER SUPPLY
7	W	SSOFF RELAY
8	B/R	GROUND
9	L	EV SYSTEM CAN-H
13	G	EV SYSTEM CAN-L
15	O	ASCD BRAKE SWITCH SIGNAL
18	SB	STOP LAMP SW SIGNAL
21	R	POWER ON POWER SUPPLY
23	P	HIGH VOLTAGE CABLE INTERLOCK
25	L	CAN-H
26	Y	WATER PUMP 2 SIGNAL
28	W	WATER PUMP 1 SIGNAL
29	P	CAN-L

Connector No.	E62
Connector Name	VCM
Connector Type	RH40DFR-RZ8-L-RH



Terminal No.	Color of Wire	Signal Name [Specification]
33	L	SENSOR POWER SUPPLY (REFRIGERANT PRESSURE SENSOR)
34	B	REFRIGERANT PRESSURE SENSOR SIGNAL
35	BR	SENSOR GROUND (REFRIGERANT PRESSURE SENSOR)
37	W	SENSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 1)
38	R	ACCELERATOR PEDAL POSITION SENSOR 1 SIGNAL
39	B	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 1)
40	SHIELD	-
41	R	SENSOR POWER SUPPLY (BATTERY CURRENT SENSOR)
42	Y	BATTERY CURRENT SENSOR SIGNAL
43	L	SENSOR GROUND (BATTERY CURRENT SENSOR)
45	W	SENSOR POWER SUPPLY (ACCELERATOR PEDAL POSITION SENSOR 2)
46	R	ACCELERATOR PEDAL POSITION SENSOR 2 SIGNAL
47	B	SENSOR GROUND (ACCELERATOR PEDAL POSITION SENSOR 2)
48	SHIELD	-
50	L	BATTERY TEMPERATURE SENSOR SIGNAL
51	O	COOLANT TEMPERATURE SENSOR SIGNAL
52	W	SENSOR GROUND (COOLANT TEMPERATURE SENSOR)
57	LG	POWER VOLTAGE VARIABLE CONTROL SIGNAL

59	V	RADIATOR FAN CONTROL SIGNAL
62	G	WATER PUMP 1 ACTIVATION SIGNAL
64	R	WATER PUMP 2 ACTIVATION SIGNAL
67	Y	DC/DC CONVERTER TEMPERATURE SIGNAL
70	W	DC/DC CONVERTER TEMPERATURE SIGNAL
73	GR	F/S RELAY
75	W	F/S OHG RELAY
77	LG	F/S RELAY POWER SUPPLY
78	G	M/C RELAY
80	SB	REVERSE LAMP RELAY

Connector No.	E64
Connector Name	F/S OHG RELAY
Connector Type	MS02FL-M2-LC



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

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



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

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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY

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



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	L	-
2	B/W	-
3	R	-
4	Y	-

Connector No.	E73
Connector Name	VEHICLE SECURITY HORN RELAY
Connector Type	M03FW-R-LC



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

Connector No.	E84
Connector Name	DAYTIME RUNNING LIGHT RELAY
Connector Type	MS00FE-M2



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

Connector No.	E102
Connector Name	STOP LAMP SWITCH
Connector Type	M04FW-LC



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH02MW-CS16-TM4



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

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

POWER SUPPLY ROUTING CIRCUIT

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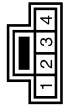
BATTERY POWER SUPPLY

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



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

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	NS2AMW-CS



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

Connector No.	E109
Connector Name	WIRE TO WIRE
Connector Type	TH32MW-NH



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

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	-

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



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

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



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

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01FW-MC



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

Connector No.	M2
Connector Name	TCU
Connector Type	TH40FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	BATTERY POWER SUPPLY
2	B	BATTERY POWER SUPPLY
3	G	GROUND
4	V	POWER SWITCH ON SIGNAL

9	L	EV SYSTEM CAN-H
10	G	EV SYSTEM CAN-L
11	LG	EV SYSTEM ACTIVATION REQUEST SIGNAL

Connector No.	M5
Connector Name	HEATED STEERING WHEEL RELAY
Connector Type	MS02FL-M2-LC



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

Connector No.	M19
Connector Name	WIRE TO WIRE
Connector Type	NS18FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
4	BR	-
7	V	-
8	P	-
9	L	-
10	V	-
11	V	-
12	R	-
13	BR	-
14	Y	-
15	L	-
16	G	-

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POWER SUPPLY ROUTING CIRCUIT

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BATTERY POWER SUPPLY

Connector No.	M25
Connector Name	POWER SWITCH
Connector Type	TK08BR



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

Connector No.	M38
Connector Name	EPS CONTROL UNIT
Connector Type	L02FB-MC



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

Connector No.	M89
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA08FW-FHA6-SA



Terminal No.	Color of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	P	BAT FUSE
58	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



Terminal No.	Color of Wire	Signal Name [Specification]
75	LG	DR DOOR REQ SW
76	SB	POWER SW (PUSH SW)
78	P	DRIVER DOOR ANT+
79	V	DRIVER DOOR ANT-
80	LG	PASS DOOR ANT+
81	Y	PASS DOOR ANT-
82	W	REAR BMRP ANT+
83	B	REAR BMRP ANT-
84	BR	ROOM ANT 1+
85	Y	ROOM ANT 1-
86	G	ROOM ANT 2+
87	R	ROOM ANT 2-
88	V	LUGGAGE ROOM ANT+
89	LG	LUGGAGE ROOM ANT-
90	W	POWER SW LL PWR
91	V	ACC / ON IND
92	B	POWER SW ILL GND CONT
93	GR	I-KEY WARN BUZZER
96	BR	ACC RELAY CONT
97	W	READY
98	G	IGN RELAY (PDM)/R/CONT
99	R	IGN RELAY (F/B)/CONT

100	P	PASS DOOR REQ SW
102	R	P/AL POSITION
104	LG	WAKE-UP
105	P	STOP LAMP SW 2

Connector No.	M71
Connector Name	HEATED SEAT RELAY
Connector Type	MS02FL-M2-LC



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

Connector No.	M75
Connector Name	REMOTE KEYLESS ENTRY RECEIVER
Connector Type	TH40FW-NH



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

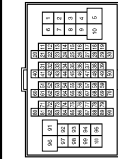
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80PV-CS1.6-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	V	
3	GR	
4	LG	
6	W	
7	P	
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	
30	W	
31	SB	
32	LG	
33	V	
34	L	
35	SB	
38	LG	
39	GR	
40	Y	
41	R	
42	W	
43	SB	

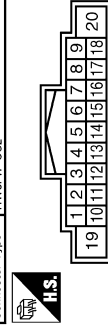
44	GR	
45	P	
46	R	
47	W	
48	L	
49	G	
50	L	
51	L	
54	W	
55	G	
56	BR	
57	P	
58	R	
60	Y	
61	GR	
62	SB	
63	Y	
64	G	
65	V	
66	P	
67	Y	
68	P	
69	BR	
71	Y	
72	L	
73	G	
74	L	
75	V	
76	R	
80	W	
81	L	
82	SB	
83	R	
84	BR	
85	R	
86	GR	
88	R	
89	W	
90	SHIELD	
91	Y	
92	BR	
93	W	
94	P	
95	V	
96	P	
97	G	
98	R	
99	LG	

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



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

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 No.	M82
Connector Name	REAR HEATED SEAT RELAY
Connector Type	MS02PL-M2-LC



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

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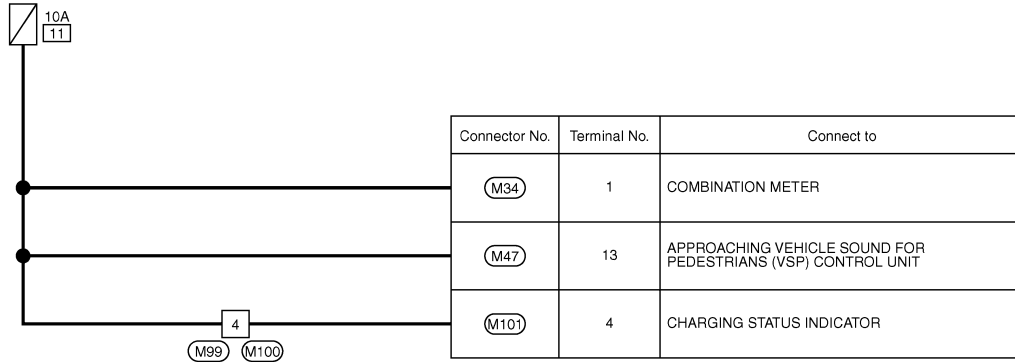
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.11 -

INFOID:000000006968265

BATTERY POWER SUPPLY FUSE No. 11



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

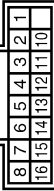
BATTERY POWER SUPPLY FUSE No. 11

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH4CFV-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	Y	WASHER LEVEL SWITCH SIGNAL
9	G	PLUG IN SIGNAL
10	L	COMMUNICATION SIGNAL (METER → METER)
11	P	METER CONTROL SWITCH GROUND
12	V	ENTER SWITCH SIGNAL
13	LG	SELECT SWITCH SIGNAL
14	W	TRIP RESET SWITCH SIGNAL
15	BR	ILLUMINATION CONTROL SWITCH SIGNAL
16	BR	ILLUMINATION CONTROL SIGNAL (FOR UPPER METER)
17	V	CAN-L
18	P	CAN-H
19	L	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
20	V	GROUND (FOR UPPER METER)
21	GR	ELECTRIC PARKING BRAKE CONTROL SIGNAL (DRIVER SIDE)
22	BR	BRAKE FLUID LEVEL SWITCH SIGNAL
23	SB	ILLUMINATION CONTROL SIGNAL
24	B	AIR BAG SIGNAL
25	R	SECURITY SIGNAL
26	R	VEHICLE SPEED SIGNAL (3-PULSE)
27	GR	COMMUNICATION SIGNAL (METER → UPPER)
28	W	CLOCK SIGNAL
29	LG	PLUG IN INDICATOR LAMP SIGNAL
30	L	LED HEADLAMP (RH) WARNING SIGNAL
31	V	LED HEADLAMP (LH) WARNING SIGNAL
32	LG	SEAT BELT BUCKLE SWITCH SIGNAL (DRIVER SIDE)
33	Y	
34	Y	
35	Y	
36	Y	
37	Y	
38	Y	
39	Y	
40	Y	

Connector No.	M47
Connector Name	VEHICLE SOUND FOR PEDESTRIANS (VSP) CONTROL UNIT
Connector Type	TH16FTV-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)
5	G	VSP OFF SWITCH SIGNAL
6	Y	CHARGE PULSE SIGNAL
7	L	VSP SPEAKER SIGNAL (-)
8	Y	VSP SPEAKER SIGNAL (+)
9	GR	R-LINE (CONSULT)
10	GR	POWER SWITCH SIGNAL
11	GR	STOP LAMP SWITCH SIGNAL
12	SB	BATTERY POWER SUPPLY
13	L	VSP OFF INDICATOR SIGNAL
14	LG	VSP OFF INDICATOR SIGNAL
15	R	STRAT UP SOUND SPEAKER SIGNAL (-)
16	W	STRAT UP SOUND SPEAKER SIGNAL (+)

Connector No.	M100
Connector Name	WIRE TO WIRE
Connector Type	TH4GMW-NH



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

Connector No.	M101
Connector Name	CHARGING STATUS INDICATOR
Connector Type	TH4CFV-NH



Connector No.	M69
Connector Name	WIRE TO WIRE
Connector Type	TH4CFV-NH



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

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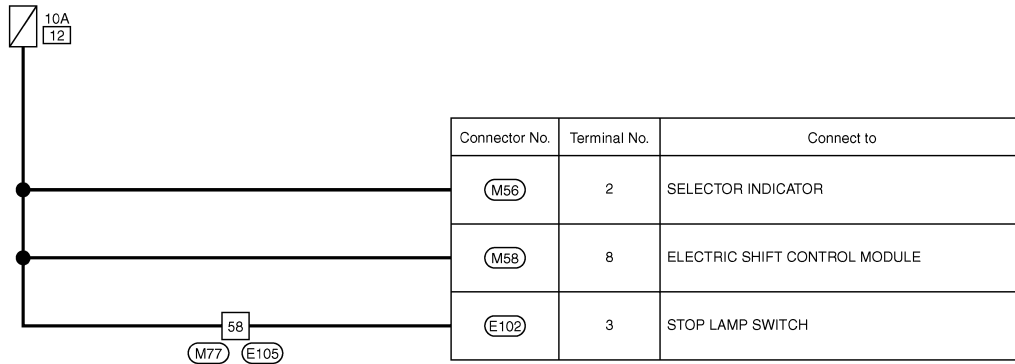
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.12 -

INFOID:000000006968266

BATTERY POWER SUPPLY FUSE No. 12



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

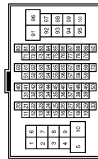
BATTERY POWER SUPPLY FUSE No. 12

Connector No.	E102
Connector Name	STOP LAMP SWITCH
Connector Type	MD4FW-LC



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH80MW-CS1E-TM4

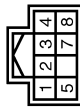


Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	
2	R	
3	GR	
4	LG	
6	W	
7	V	
8	P	
9	G	
10	R	
11	O	
12	W	
13	B	
14	Y	
15	BR	
16	LG	
17	L	
18	G	
20	Y	

21	P	
22	LG	
23	GR	
24	L	
25	R	
26	SB	
27	B	
29	BR	
30	W	
31	V	
32	LG	
33	O	
34	L	
35	BR	
38	SB	
39	GR	
40	Y	
41	R	
42	W	
43	SB	
44	GR	
45	G	
46	P	
47	LG	
48	V	
49	G	
50	L	
51	W	
54	P	
55	O	
56	Y	
57	P	
58	LG	
60	LG	
61	GR	
62	BR	
63	O	
64	R	
65	Y	
66	G	
67	V	
68	W	
69	SB	
71	Y	
72	L	
73	R	
74	L	
75	V	
76	P	
80	O	
81	L	
82	SB	

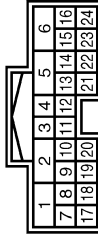
83	G	
84	BR	
85	LG	
86	GR	
88	B	
89	W	
90	SHIELD	
91	Y	
92	BR	
93	W	
94	R	
95	V	
96	P	
97	G	
98	SB	
99	O	

Connector No.	M56
Connector Name	SELECTOR INDICATOR
Connector Type	TH80FW-NH



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

Connector No.	M68
Connector Name	ELECTRIC SHIFT CONTROL MODULE
Connector Type	TH20FW-TB4-1V



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MOTOR COIL A U-PHASE
2	G	MOTOR COIL A V-PHASE
3	B	GND
4	B	GND
5	Y	MOTOR COIL A W-PHASE
6	B	GND (MOTOR)
7	W	MAIN POWER SUPPLY 1
8	R	BACK UP POWER SUPPLY
9	BR	POWER SW 1
10	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

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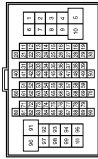
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 12

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	THEORY-CSI6-TM4



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	-
29	V	-
30	W	-
31	SB	-
32	LG	-
33	V	-
34	L	-
35	SB	-
36	LG	-
39	GR	-
40	Y	-
41	R	-
42	W	-
43	SB	-

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	-

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
POWER SUPPLY ROUTING CIRCUIT

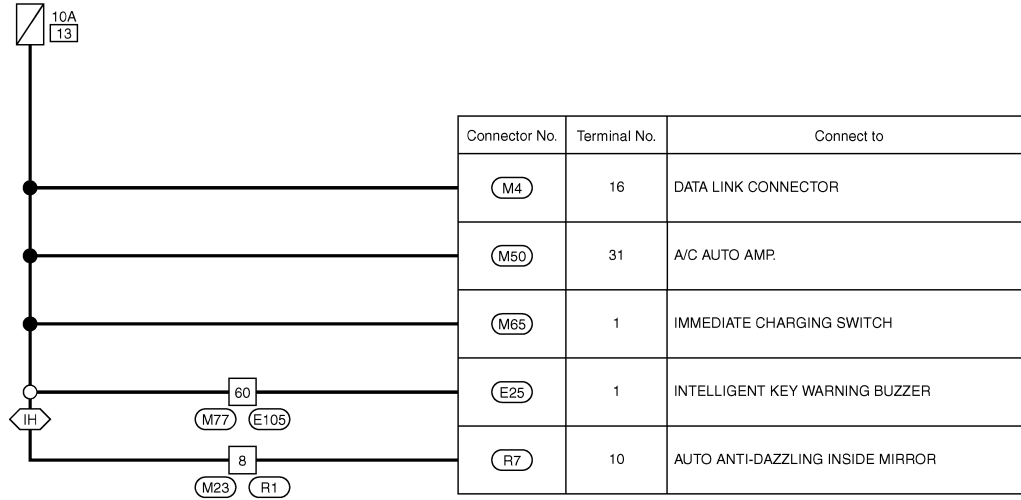
< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.13 -

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BATTERY POWER SUPPLY FUSE No. 13

 : With integrated homelink transmitter



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

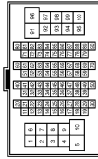
BATTERY POWER SUPPLY FUSE No. 13

Connector No.	E25
Connector Name	INTELLIGENT KEY WARNING BUZZER
Connector Type	RK03ER



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

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

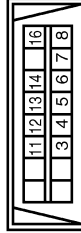


Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	
2	R	
3	GR	
4	LG	
6	W	
7	V	
8	P	
9	G	
10	R	
11	O	
12	W	
13	B	
14	Y	
15	BR	
16	LG	
17	L	
18	G	
20	V	
21	P	
22	LG	

23	GR	
24	L	
25	R	
26	SB	
27	B	
29	BR	
30	W	
31	V	
32	LG	
33	O	
34	L	
35	BR	
38	SB	
39	GR	
40	Y	
41	R	
42	W	
43	SB	
44	GR	
45	G	
46	P	
47	LG	
48	V	
49	G	
50	L	
51	W	
54	P	
55	O	
56	Y	
57	P	
58	LG	
60	LG	
61	GR	
62	BR	
63	O	
64	R	
65	Y	
66	G	
68	V	
67	V	
68	W	
69	SB	
71	Y	
72	L	
73	R	
74	L	
75	V	
76	P	
80	O	
81	L	
82	SB	
83	G	
84	BR	

85	LG	
86	GR	
88	B	
89	W	
90	SHIELD	
91	Y	
92	BR	
93	W	
94	R	
95	V	
96	P	
97	G	
98	SB	
99	O	

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



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.	M23
Connector Name	WIRE TO WIRE
Connector Type	TH16MP-NH



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	

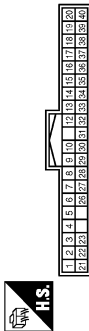
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 13

Connector No.	M59
Connector Name	A/C AUTO AMP.
Connector Type	TH80PV-NH



Connector No.	M65
Connector Name	IMMEDIATE CHARGING SWITCH
Connector Type	TH80FY-NH



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	GND
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	LG	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 GND
31	W	BATT
32	Y	IGN 1
33	LG	INCAR SENS
34	G	INTAKE SENS
35	P	SUN SENS
36	GR	AMB SENS
37	BR	WATER SENS
38	SB	INT F/B
40	SB	PTC LIN

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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80PW-CS16-TM4

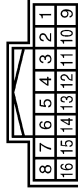


Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	V	-
3	GR	-
4	LG	-
6	W	-
7	V	-
8	P	-
9	SB	-
10	L	-
11	LG	-
12	W	-
13	R	-
14	Y	-
15	R	-
16	G	-
17	BR	-
19	G	-
20	G	-

21	P	-
22	LG	-
23	GR	-
24	L	-
25	Y	-
26	G	-
27	L	-
28	W	-
30	W	-
31	SB	-
32	LG	-
33	V	-
34	L	-
35	SB	-
38	LG	-
39	GR	-
40	Y	-
41	R	-
42	W	-
43	SB	-
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	R	-
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	-

Connector No.	RT
Connector Name	WIRE TO WIRE
Connector Type	TH16PW-NH



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

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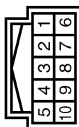
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 13

Connector No.	B7
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	TH10FB-1H1



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

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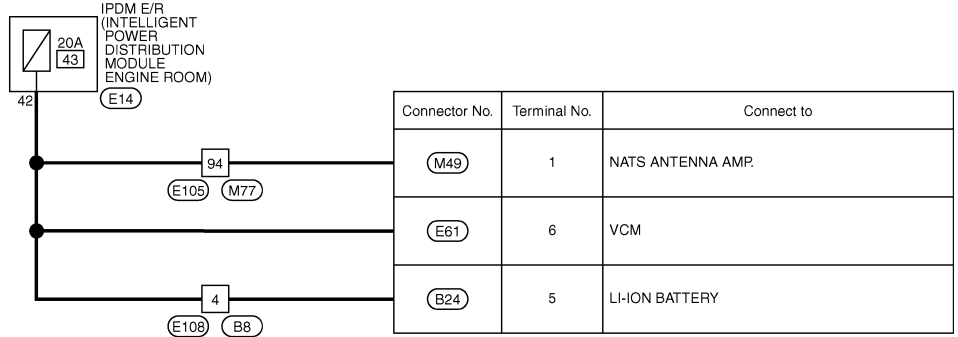
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.43 -

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BATTERY POWER SUPPLY FUSE No. 43



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POWER SUPPLY ROUTING CIRCUIT

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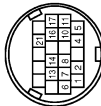
BATTERY POWER SUPPLY FUSE No. 43

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



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

Connector No.	B24
Connector Name	L-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
3	R	IGN
4	R	BAT
5	B	GND3
6	B	GND2
7	B	GND1
8	B	PRE CHG GND
10	B	PRE CHG V
11	G	RLY2 GND
13	B	RLY2 V
14	L	RLY1 GND
16	B	RLY1 V
17	Y	CHG IGN
21	R	-

Connector No.	E14
Connector Name	ENGINE INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE I/PDM)
Connector Type	NS12FER-CS



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

Connector No.	E61
Connector Name	VCM
Connector Type	RH24FGY-RZ8-R-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	POWER ON POWER SUPPLY
4	B/R	GROUND
5	SB	A/C RELAY
6	R	BATTERY POWER SUPPLY
7	W	SSOFF RELAY
8	B/R	GROUND
9	L	EV SYSTEM CAN-H
13	G	EV SYSTEM CAN-L
15	O	ASGD BRAKE SWITCH SIGNAL
18	SB	STOP LAMP SW SIGNAL
21	R	POWER ON POWER SUPPLY
23	P	HIGH VOLTAGE CABLE INTERLOCK
25	L	CAN-H

26	Y	WATER PUMP 2 SIGNAL
28	W	WATER PUMP 1 SIGNAL
29	P	CAN-L

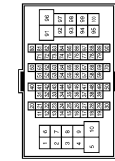
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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BATTERY POWER SUPPLY FUSE No. 43

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	THRMW-CS (E-TM4)



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

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

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	NSCAMW-CS



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

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



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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 43

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	THEORY-CSI6-TM4



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	-
29	V	-
30	W	-
31	SB	-
32	LG	-
33	V	-
34	L	-
35	SB	-
36	LG	-
39	GR	-
40	Y	-
41	R	-
42	W	-
43	SB	-

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	-

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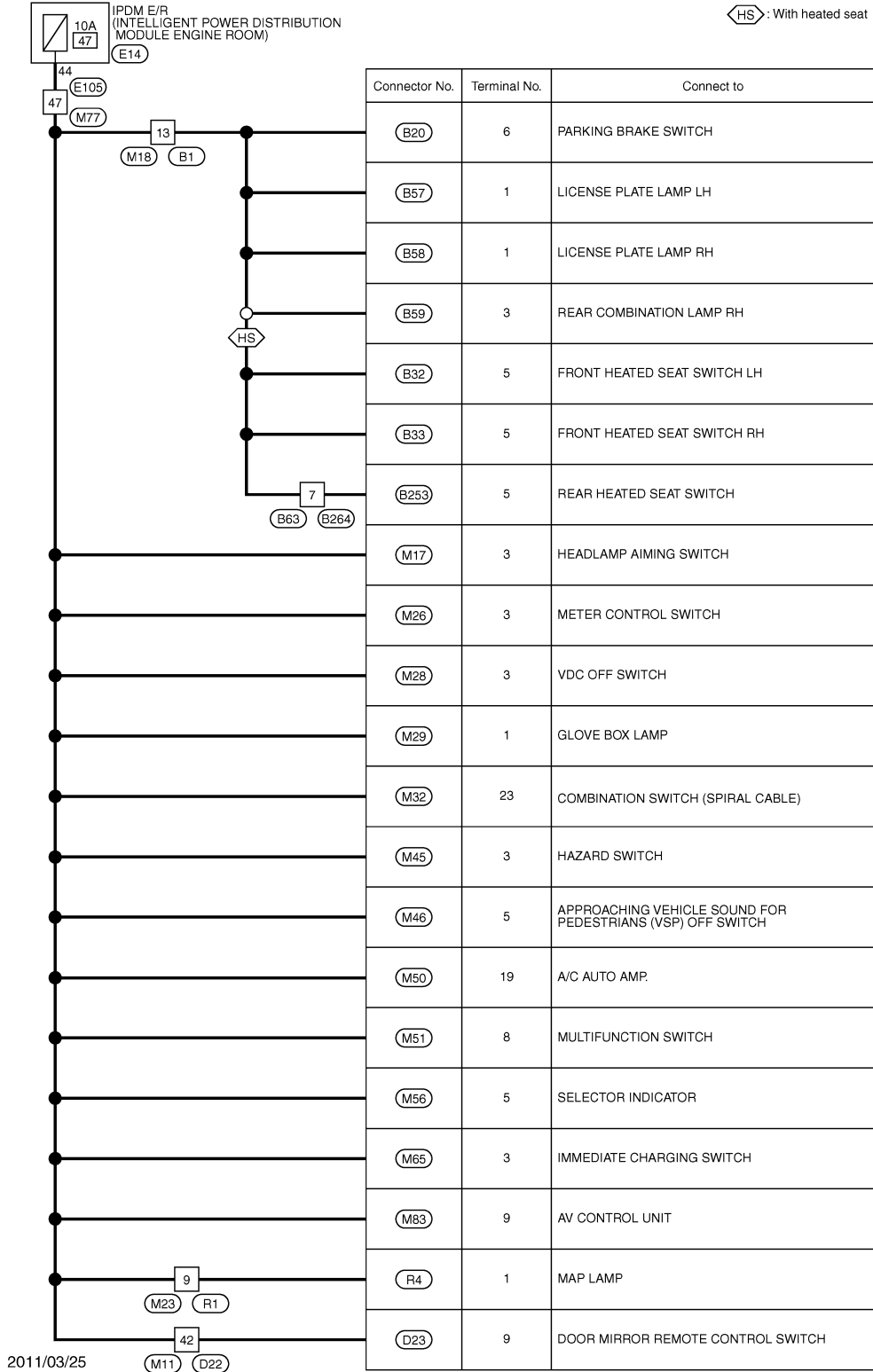
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.47 -

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BATTERY POWER SUPPLY FUSE No. 47



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 47

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



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

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

Connector No.	B20
Connector Name	PARKING BRAKE SWITCH
Connector Type	TK08FGY



1	2	3	4	5	6	7	8
---	---	---	---	---	---	---	---

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.	B32
Connector Name	FRONT HEATED SEAT SWITCH LH
Connector Type	NS08FW-CS



5	6
4	2
1	3

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

Connector No.	B33
Connector Name	FRONT HEATED SEAT SWITCH RH
Connector Type	NS08FBR-CS



5	6
4	2
1	3

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

Connector No.	B57
Connector Name	LICENSE PLATE LAMP LH
Connector Type	RG02FBR



2	1
---	---

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

Connector No.	B58
Connector Name	LICENSE PLATE LAMP RH
Connector Type	RG02FBR



2	1
---	---

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

Connector No.	B59
Connector Name	REAR COMBINATION LAMP RH
Connector Type	NS08MW-CS



1	2
3	4
5	6

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	NS08FW-CS



6	3	1
2	5	4
7	8	

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.	BZ33
Connector Name	REAR HEATED SEAT SWITCH
Connector Type	NS08FBR-CS



7	8
3	5
4	6

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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 47

Connector No.	B264
Connector Name	WIRE TO WIRE
Connector Type	NS28MW-CS



1	3	6
8	7	4
5	2	1

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

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



1	5	14	13	12	11	10	9	8	7	6	5	4	3	2	1
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17

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	-

Connector No.	D23
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK11FW



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

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.	E14
Connector Name	SMART INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	MS12FBR-CS



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

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

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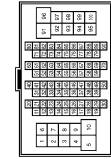
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

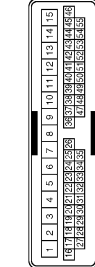
BATTERY POWER SUPPLY FUSE No. 47

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS1E-TM4



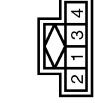
Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	GR	-
4	LG	-
6	W	-
7	V	-
8	P	-
9	G	-
10	R	-
11	O	-
12	W	-
13	B	-
14	Y	-
15	BR	-
16	LG	-
17	L	-
19	G	-
20	V	-
21	P	-
22	LG	-
23	GR	-
24	L	-
25	B	-
26	SB	-
27	B	-
29	BR	-
30	W	-
31	V	-
32	LG	-
33	O	-
34	L	-
35	BR	-
38	SB	-
39	GR	-
40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

Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH30MW-CS1S



Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-
3	G	-
4	V	-
7	BR	-
8	Y	-
9	LG	-
10	W	-
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	W	-
45	LG	-
46	BR	-
47	W	-
48	GR	-
49	R	-
50	BR	-
53	V	-

Connector No.	M17
Connector Name	HEADLAMP AMING SWITCH
Connector Type	AG4FW



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	NS15PW-CS



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

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

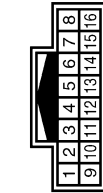
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POWER SUPPLY ROUTING CIRCUIT

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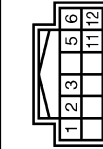
BATTERY POWER SUPPLY FUSE No. 47

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



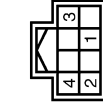
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	SHIELD	-
5	B	-
6	BR	-
7	P	-
8	Y	-
9	R	-
10	B	-
11	O	-

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



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

Connector No.	M28
Connector Name	VDC OFF SWITCH
Connector Type	TK02FE-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



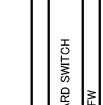
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
2	B	-

Connector No.	M32
Connector Name	COMBINATION SWITCH (SPIRAL CABLE)
Connector Type	TK08FY-EX-1V



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

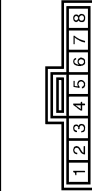
Terminal No.	23	R	-
Terminal No.	28	Y	-
Terminal No.	29	V/V	-
Terminal No.	30	GR	-



Connector No.	M45
Connector Name	HAZARD SWITCH
Connector Type	TK04FW

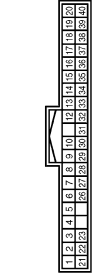
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	-
2	P	-
3	W	-
4	B	-

Connector No.	M46
Connector Name	APPROACHING VEHICLE SOUND FOR PEDESTRIANS (NSP) OFF SWITCH
Connector Type	TK08FGY



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

Connector No.	M80
Connector Name	A/C AUTO AMP.
Connector Type	TH40FW-NH



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	MIK4
7	SB	MIK3
8	LG	MIK2
9	L	MIK1
10	B	GND
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	LG	HEATED STEERING WHEEL RELAY CONTROL SIGNAL
23	SB	SEAT HEAT RELAY
27	W	BY OUT
28	L	EV CAN-H
29	G	EV CAN-L
30	R	SENS GND
31	W	BATT
32	Y	IGN 1
33	LG	INCAR SENS
34	G	INTAKE SENS
35	P	SUN SENS
36	GR	AMB SENS
37	BR	WATER SENS
38	SB	INT F/B
40	SB	PTC/LIN

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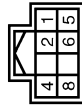
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

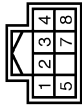
BATTERY POWER SUPPLY FUSE No. 47

Connector No.	M51
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH08FV-NH



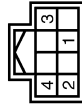
Terminal No.	Color of Wire	Signal Name [Specification]
1	B	
2	LG	
4	R	
5	B	
6	SB	
8	W	

Connector No.	M56
Connector Name	SELECTOR INDICATOR
Connector Type	TH08FV-NH



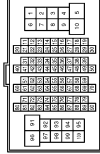
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	
2	R	
3	B	
4	B	
5	W	
7	L	
8	R	

Connector No.	M65
Connector Name	IMMEDIATE CHARGING SWITCH
Connector Type	TH08FV-NH



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

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH08FV-CS16-TM4

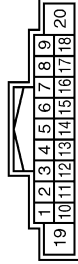


Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	V	
3	GR	
4	LG	
6	W	
7	V	
8	P	
9	SB	
10	L	
11	LG	
12	W	
13	R	
14	Y	
15	R	
16	G	
17	BR	
19	G	
20	G	

21	P	
22	LG	
23	GR	
24	L	
25	Y	
26	G	
27	L	
28	V	
30	W	
31	SB	
32	LG	
33	V	
34	L	
35	SB	
38	LG	
39	GR	
40	Y	
41	R	
42	W	
43	SB	
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	Y	
89	W	
90	SHIELD	
91	Y	
92	BR	
93	W	
94	P	
95	V	
96	P	
97	G	
98	R	
99	LG	

Connector No.	M83
Connector Name	AV CONTROL UNIT
Connector Type	TH18FV-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

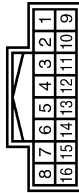
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

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BATTERY POWER SUPPLY FUSE No. 47

Connector No.	R4
Connector Name	WIRE TO WIRE
Connector Type	TH16FN-NH



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

Connector No.	R4
Connector Name	MAP LAMP
Connector Type	TK06FGY



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

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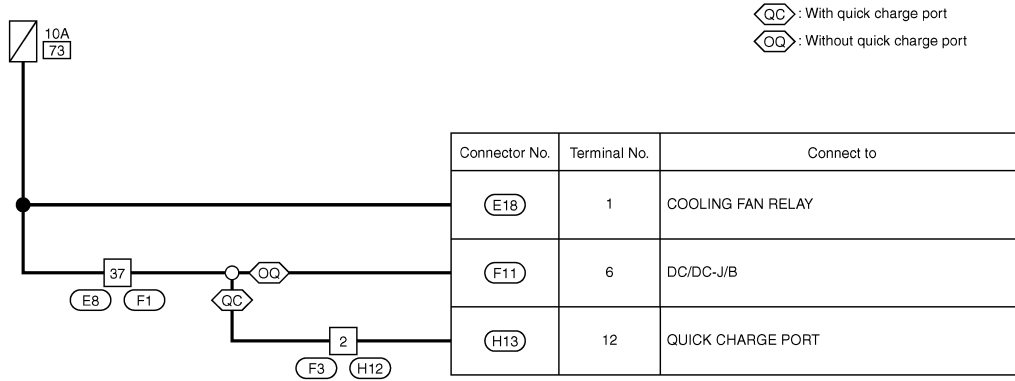
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.73 -

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BATTERY POWER SUPPLY FUSE No. 73



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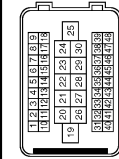
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 73

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SAA38MB-RS10-SJ22



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	BR	-
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.	E18
Connector Name	COOLING FAN RELAY
Connector Type	T2347_9F500



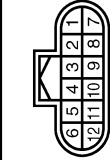
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	-
2	B/Y	-
3	BR	-
5	R	-

Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA38FB-RS10-SJ22



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	SR	-
16	LG	-

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	-
2	Y/W	-
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.	H12
Connector Name	WIRE TO WIRE
Connector Type	RK02FGY



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

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	G	- [With quick charge port]
37	O	- [Without quick charge port]
38	B	-
40	BR	-
41	O	-
42	SB	-
43	L	-
44	LG	-
47	V	-
48	P	-

Connector No.	F3
Connector Name	WIRE TO WIRE
Connector Type	RK02MGY



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

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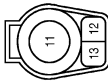
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 73

Connector No.	H13
Connector Name	QUICK CHARGE PORT
Connector Type	24342-3N42B



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

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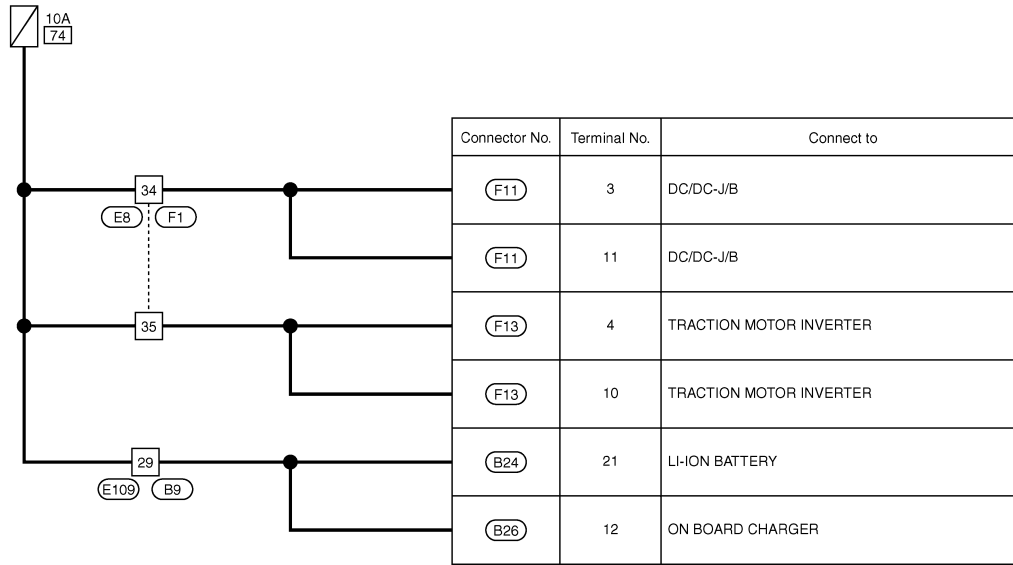
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - BATTERY POWER SUPPLY FUSE No.74 -

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BATTERY POWER SUPPLY FUSE No. 74



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POWER SUPPLY ROUTING CIRCUIT

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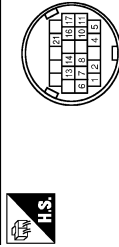
BATTERY POWER SUPPLY FUSE No. 74

Connector No.	B9
Connector Name	WIRE TO WIRE
Connector Type	TH27V-NH

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



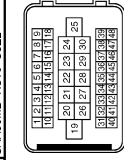
Connector No.	B24
Connector Name	LI-ION BATTERY
Connector Type	Yazaki: T282-8759-30



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	
17	R	
18	Y	
19	G	
20	V	
21	SB	
22	P	
23	LG	
24	L	
25	Y	
26	L	
27	G	
28	GR	
29	R	
30	R	
31	Y	

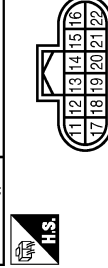
19	L	EV SYSTEM CAN+H
20	G	EV SYSTEM CAN-L
21	BR	PLUG IN SIGNAL
22	B	GROUND

Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SAAA38MB-RS10-SJ22



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	
28	V	
27	P	
28	B/R	
29	W	
30	B/R	
31	LG	
32	W	
33	Y	
34	P	
35	L	
36	R	
37	G	

Connector No.	B25
Connector Name	ON BOARD CHARGER
Connector Type	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

38	B/R	
40	BR	
41	G	
42	SB	
43	L	
44	O	
47	V	
48	P	

Connector No.	E109
Connector Name	WIRE TO WIRE
Connector Type	TH32MMV-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	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	

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

BATTERY POWER SUPPLY FUSE No. 74

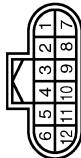
Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SA38FE-RS10-SJZ2



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

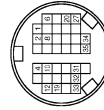
44	LG	-
47	V	-
48	P	-

Connector No.	F11
Connector Name	DC/DC-J/B
Connector Type	RH1ZFB



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.	F13
Connector Name	TRACTION MOTOR INVERTER
Connector Type	RR38FC-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 (S3)
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)
21	P	TRACTION MOTOR RESOLVER SIGNAL (S4)
31	O	TRACTION MOTOR TEMPERATURE SENSOR
32	B/P	POWER SUPPLY (IGN)
33	LG	TRACTION MOTOR RESOLVER SIGNAL (R1)
34	R	TRACTION MOTOR RESOLVER SIGNAL (R2)
35	G	TRACTION MOTOR RESOLVER SIGNAL (R2)

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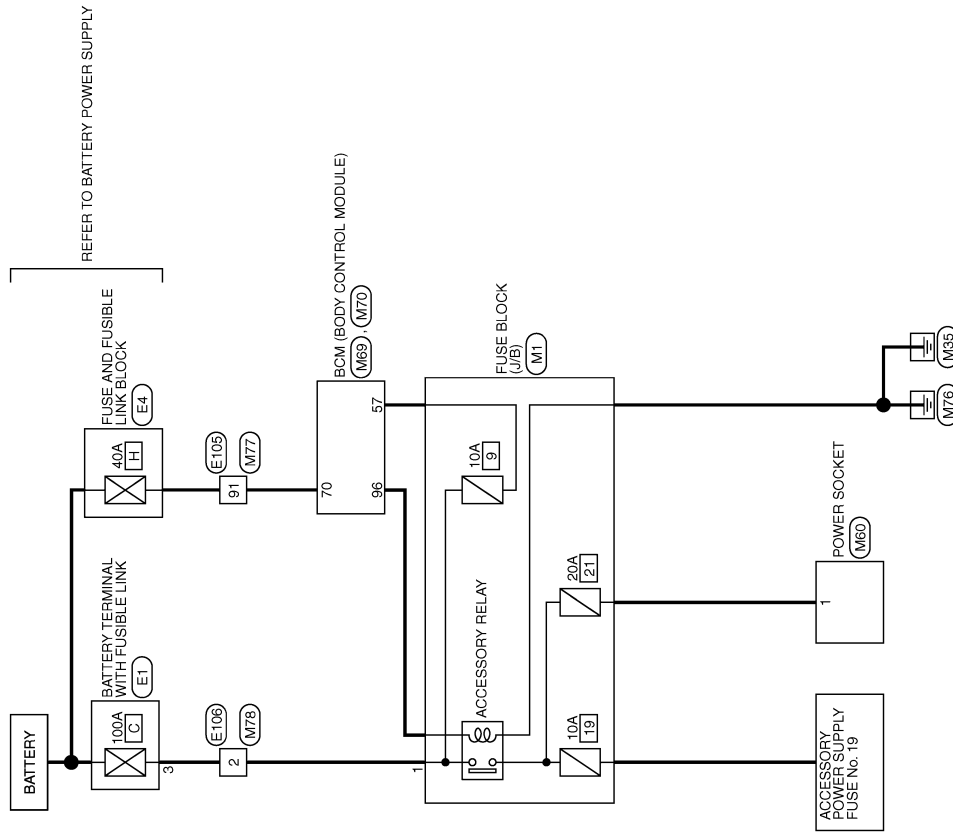
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ACCESSORY POWER SUPPLY -

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ACCESSORY POWER SUPPLY



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POWER SUPPLY ROUTING CIRCUIT

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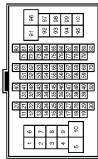
ACCESSORY POWER SUPPLY

Connector No.	E1
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FCY-MC



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH8MMW-CS (S-TM4)



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	-
2	R	-
3	GR	-
4	LG	-
5	W	-
6	V	-
7	P	-
8	G	-
9	R	-
10	O	-
11	O	-
12	W	-
13	B	-
14	Y	-
15	BR	-
16	LG	-
17	L	-
18	G	-
20	V	-
21	P	-
22	LG	-

23	GR	-
24	L	-
25	R	-
26	SB	-
27	B	-
28	BR	-
29	Y	-
30	W	-
31	V	-
32	LG	-
33	O	-
34	L	-
35	BR	-
38	SB	-
39	GR	-
40	Y	-
41	R	-
42	W	-
43	SB	-
44	GR	-
45	G	-
46	P	-
47	LG	-
48	V	-
49	G	-
50	L	-
51	W	-
54	P	-
55	O	-
56	Y	-
57	P	-
58	LG	-
60	LG	-
61	GR	-
62	BR	-
63	O	-
64	R	-
65	Y	-
66	G	-
67	V	-
68	W	-
69	SB	-
71	Y	-
72	L	-
73	R	-
74	L	-
75	V	-
76	P	-
80	O	-
81	L	-
82	SB	-
83	G	-
84	BR	-

85	LG	-
86	GR	-
88	B	-
89	W	-
90	SHIELD	-
91	Y	-
92	BR	-
93	W	-
94	R	-
95	V	-
96	P	-
97	G	-
98	SB	-
99	O	-

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



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

Connector No.	M1
Connector Name	FUSE BLOCK (J/F)
Connector Type	L01FW-MC



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

Connector No.	M80
Connector Name	POWER SOCKET
Connector Type	P02FB-Z



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

Connector No.	M89
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FH48-SA



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)

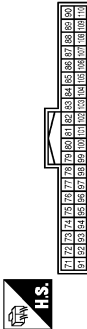
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

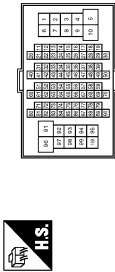
ACCESSORY POWER SUPPLY

Connector No.	M70
Connector Name	BCM BODY CONTROL MODULE
Connector Type	TH4CFV-IN1



Terminal No.	Color of Wire	Signal Name [Specification]
75	LG	DR DOOR REQ SW
76	SB	POWER SW (PUSH SW)
78	P	DRIVER DOOR ANT+
79	V	DRIVER DOOR ANT-
80	LG	PASS DOOR ANT+
81	Y	PASS DOOR ANT-
82	W	REAR EMPR ANT+
83	B	REAR EMPR ANT-
84	BR	ROOM ANT 1+
85	Y	ROOM ANT 1-
86	G	ROOM ANT 2+
87	R	ROOM ANT 2-
88	V	LUGGAGE ROOM ANT+
89	LG	LUGGAGE ROOM ANT-
90	W	POWER SW ILL PWR
91	V	ACC / ON IND
92	B	POWER SW ILL GND CONT
93	GR	I-KEY WARN BUZZER
96	BR	ACC RELAY CONT
97	W	READY
98	G	IGN RELAY (PDM E/R) CONT
99	R	IGN RELAY (E/B) CONT
100	P	PASS DOOR REQ SW
102	R	P/M POSITION
104	LG	WAKE-UP
105	P	STOP LAMP SW 2

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH8CFW-CS16-TM4



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	
29	V	
30	W	
31	SB	
32	LG	
33	V	
34	L	
35	SB	
38	LG	
39	GR	
40	Y	
41	R	
42	W	
43	SB	

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	LO2MB-MC



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

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	R	
90	SHIELD	
91	Y	
92	BR	
93	W	
94	P	
95	V	
96	P	
97	G	
98	R	
99	LG	

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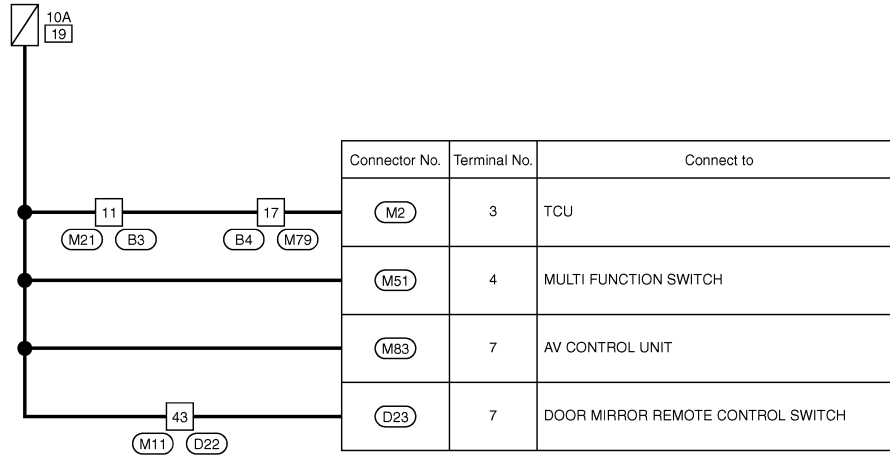
POWER SUPPLY ROUTING CIRCUIT

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Wiring Diagram - ACCESSORY POWER SUPPLY FUSE No.19 -

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ACCESSORY POWER SUPPLY FUSE No. 19



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ACCESSORY POWER SUPPLY FUSE No. 19

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH2MW-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
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Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-
2	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	TH2MW-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	-

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	TH40PW-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	31	32
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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	-

Connector No.	D23
Connector Name	DOOR MIRROR REMOTE CONTROL SWITCH
Connector Type	TK6FW



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

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.	M2
Connector Name	TCU
Connector Type	TH40PW-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
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Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	BATTERY POWER SUPPLY
2	B	GROUND
3	G	ACC POWER SUPPLY
4	V	POWER SWITCH ON SIGNAL
9	L	EV SYSTEM CAN-H
10	G	EV SYSTEM CAN-L
11	LG	EV SYSTEM ACTIVATION REQUEST SIGNAL

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	31	32
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Terminal No.	Color of Wire	Signal Name [Specification]
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	-

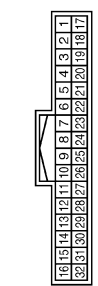
POWER SUPPLY ROUTING CIRCUIT

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ACCESSORY POWER SUPPLY FUSE No. 19

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH2FV-NH



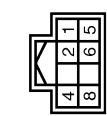
Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH2FV-NH



15	SHIELD	STEERING SWITCH SIGNAL GROUND
16	Y	STEERING SWITCH SIGNAL B
19	BR	BATTERY POWER SUPPLY

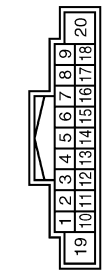
Terminal No.	Color of Wire	Signal Name [Specification]
1	W	-
3	SHIELD	-
4	B	-
5	W	-
6	R	-
11	G	-
15	L	-
16	G	-
18	BR	-
19	G	-
20	V	-
22	B	-
27	L	-
31	L	-
32	P	-

Connector No.	M51
Connector Name	MULTIFUNCTION SWITCH
Connector Type	TH2FV-NH



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

Connector No.	M83
Connector Name	AV CONTROL UNIT
Connector Type	TH1BFW-CSZ



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 (+)

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

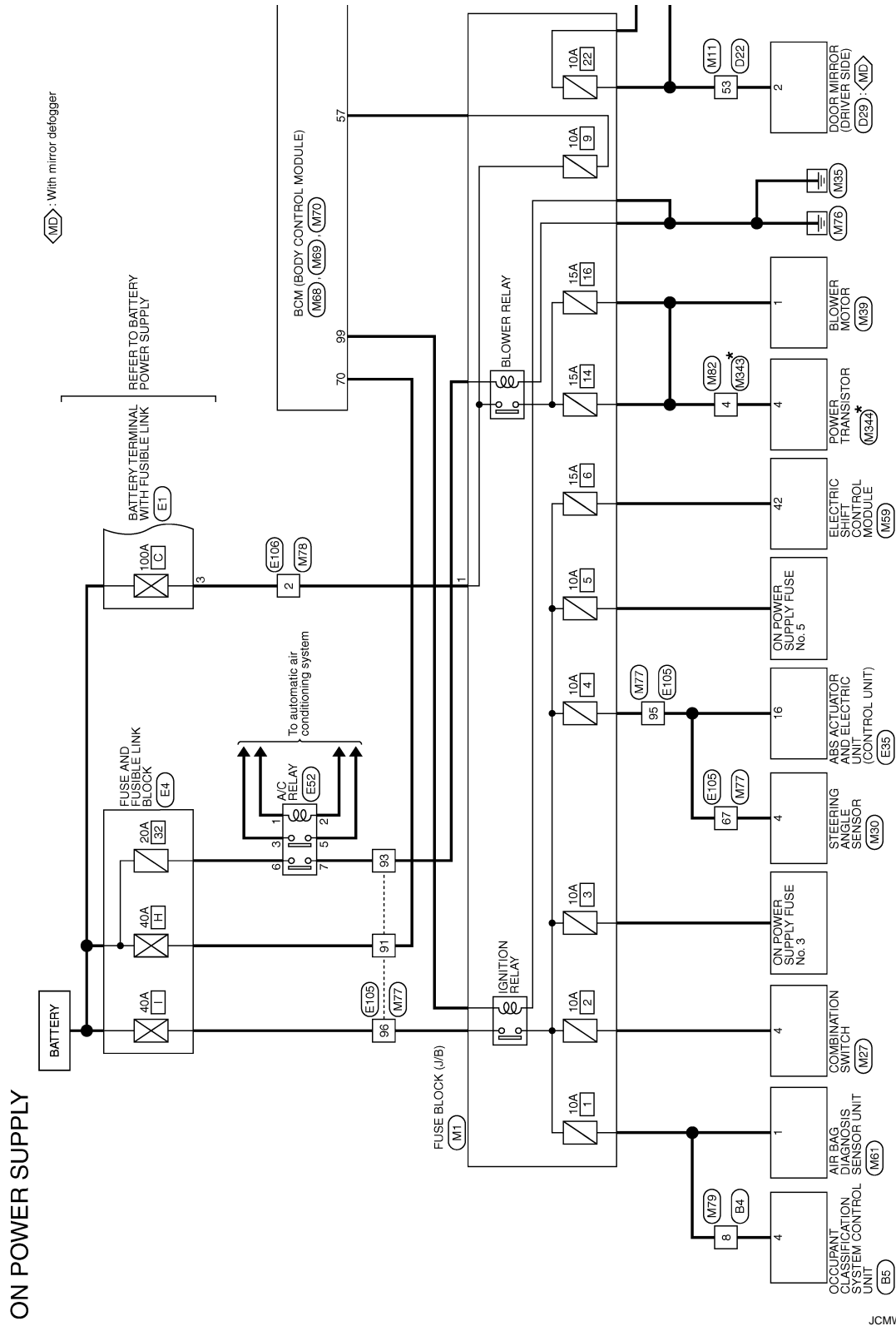
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POWER SUPPLY ROUTING CIRCUIT

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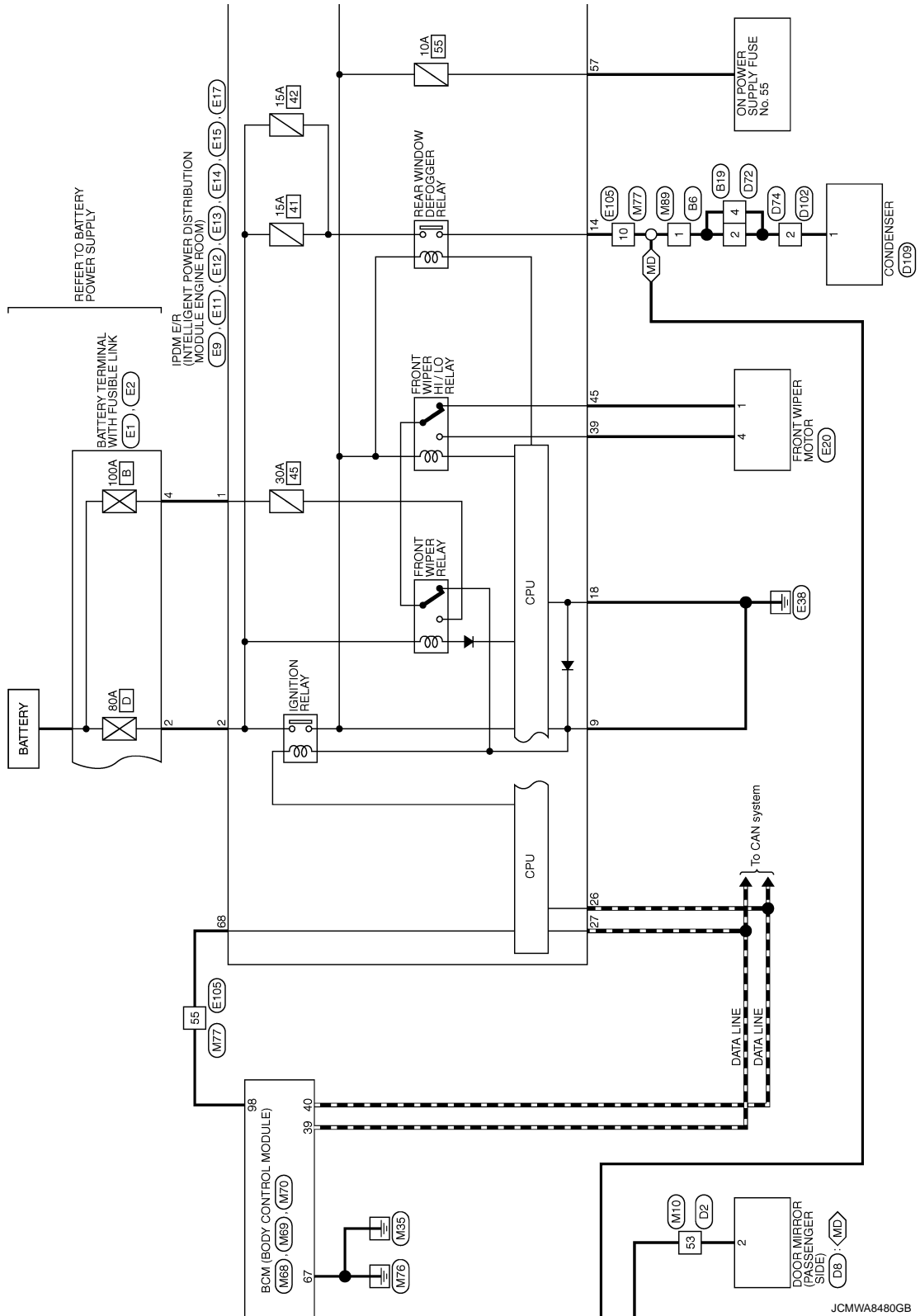
Wiring Diagram - ON POWER SUPPLY -

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POWER SUPPLY ROUTING CIRCUIT

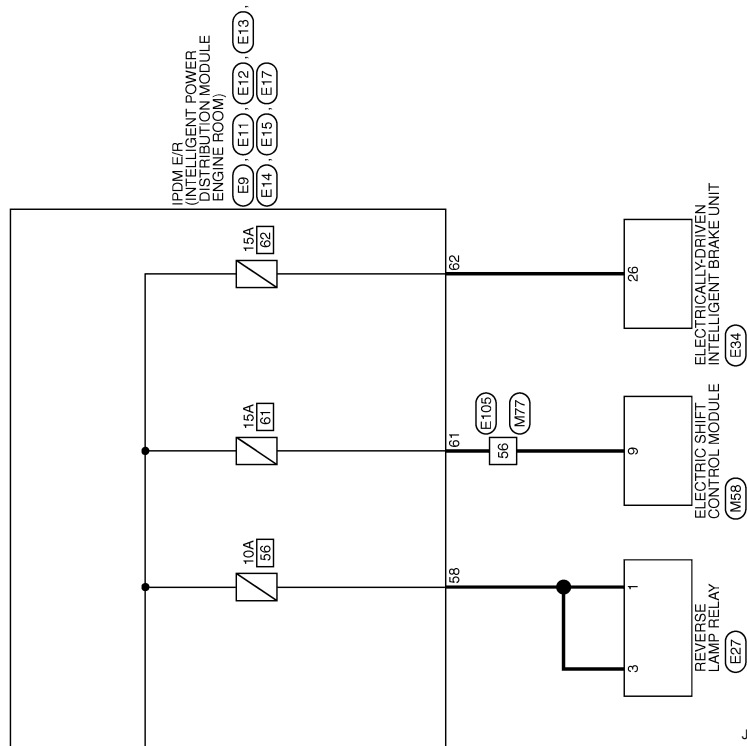
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POWER SUPPLY ROUTING CIRCUIT

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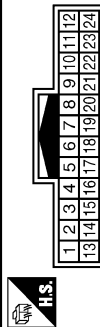


POWER SUPPLY ROUTING CIRCUIT

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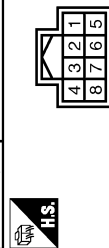
ON POWER SUPPLY

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH4QFW-NH



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	TH08FW-NH



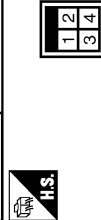
Terminal No.	Color of Wire	Signal Name [Specification]
2	R	COMMUNICATION
4	BR	IGN
5	B	GND

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



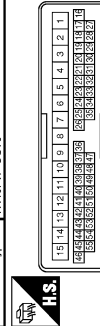
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	-

Connector No.	B19
Connector Name	WIRE TO WIRE
Connector Type	M04MW-LC



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

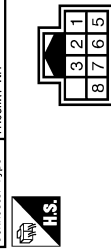
Connector No.	D2
Connector Name	WIRE TO WIRE
Connector Type	TH4QFW-GS15



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

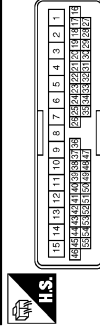
Terminal No.	Color of Wire	Signal Name [Specification]
3	V	-
4	V	-
10	BR	-
11	Y	-
12	B	-
13	W	-
14	SB	-
15	R	-
24	Y	-
25	BR	-
26	SHIELD	-
38	B	-
37	P	-
38	Y	-
39	LG	-
44	V	-
45	W	-
46	BG	-
52	B	-
53	P	-

Connector No.	D8
Connector Name	DOOR MIRROR (PASSENGER SIDE)
Connector Type	TH08MW-NH



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

Connector No.	D22
Connector Name	WIRE TO WIRE
Connector Type	TH4QFW-GS15



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	-

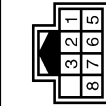
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY

Connector No.	D29
Connector Name	DOOR MIRROR (DRIVER SIDE)
Connector Type	TH88MW-NH



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

Connector No.	D72
Connector Name	WIRE TO WIRE
Connector Type	MD4FW-LC



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

Connector No.	D74
Connector Name	WIRE TO WIRE
Connector Type	MD4FW-LC



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

Connector No.	D102
Connector Name	WIRE TO WIRE
Connector Type	MD4MW-LC



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

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



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

Connector No.	E1
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FCY-MC



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

Connector No.	E2
Connector Name	BATTERY TERMINAL WITH FUSIBLE LINK
Connector Type	L02FBR-MC-B



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

Connector No.	E9
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	L02FBR-MC



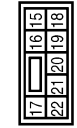
Terminal No.	Color of Wire	Signal Name [Specification]
1	R	
2	G	

Connector No.	E11
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	MS8FB-LC



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

Connector No.	E12
Connector Name	INTELLIGENT POWER DISTRIBUTION MODULE (ENGINE ROOM)
Connector Type	MS8FBR-OS



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

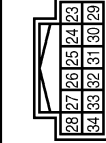
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POWER SUPPLY ROUTING CIRCUIT

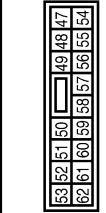
< WIRING DIAGRAM >

ON POWER SUPPLY

Connector No.	E13
Connector Name	FRONT WIPER MOTOR
Connector Type	MSBFGY



Terminal No.	1	2	3	4	5
Color of Wire	R	P	G	SB	W
Signal Name [Specification]	MOTOR BATTERY	MOTOR BATTERY	STROKE SENSOR GND	PRESS SENSOR SIGNAL	BRAKE POWER SUPPLY BACKUP COMM



Terminal No.	49	50	51	52	55	57	58	60	61	62
Color of Wire	Y	G	L	P	LG	R	O	GR	Y	V
Signal Name [Specification]										



Terminal No.	25	26	27	28	32	34
Color of Wire	R	P	L	G	SB	W
Signal Name [Specification]						



Terminal No.	39	38	46	45	44	43	42	41	40
Color of Wire	G	GR	Y	L	W	R	O	O	LG
Signal Name [Specification]									

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

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

Terminal No.	37	38	40	41	42	43
Color of Wire	G	R	P	L	L	L
Signal Name [Specification]	STROKE SENSOR SIGNAL	PRESS SENSOR SIGNAL	CAN2-L	CAN2-H	CAN1-L	CAN1-H

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

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

Terminal No.	67	66	65	64	63	72	71	70	69	68
Color of Wire	O	SB	O	O	G					
Signal Name [Specification]										

Terminal No.	64	66	68
Color of Wire	P	W	O
Signal Name [Specification]			

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



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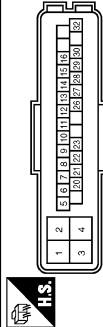
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY

Connector No.	E33
Connector Name	ABS ACTUATOR AND ELECTRIC UNIT (CONTROL UNIT)
Connector Type	RH28FB-1N4-DH



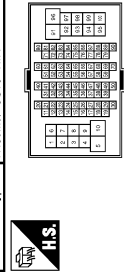
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	MOTOR BATTERY
2	R	VALVE BATTERY
3	B	GND
4	B	GND
5	P	ESP OFF SW SIGNAL
6	O	BRAKE SW SIGNAL
7	L/Y	PRESS SENSOR SIGNAL
8	SB	STOP LAMP SW SIGNAL
9	P	CAN-L
10	W/L	PRESS SENSOR POWER SUPPLY
11	BR	FR RH WHEEL SENSOR POWER SUPPLY
12	W	FR RH WHEEL SENSOR SIGNAL
13	G	G SENSOR POWER SUPPLY
14	B	G SENSOR SIGNAL (-)
15	LG	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.	E32
Connector Name	A/C RELAY
Connector Type	MO6FB-R-LC



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	SB	
3	R	
5	V	
6	R	
7	W	

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



Terminal No.	Color of Wire	Signal Name [Specification]
1	BR	
2	R	
3	GR	
4	LG	
6	W	
7	V	
8	P	
9	G	
10	R	
11	O	
12	W	
13	B	
14	Y	
15	BR	
16	LG	
17	L	

81	L	
82	SB	
83	G	
84	BR	
85	LG	
86	GR	
88	B	
89	W	
90	SHIELD	
91	Y	
92	BR	
93	W	
94	R	
95	V	
96	P	
97	G	
98	SB	
99	O	

Connector No.	E108
Connector Name	WIRE TO WIRE
Connector Type	L02FB-MC



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

19	G	
20	V	
21	P	
22	LG	
23	GR	
24	L	
25	R	
26	SB	
27	B	
29	BR	
30	W	
31	V	
32	LG	
33	O	
34	L	
35	BR	
36	SB	
38	SB	
39	GR	
40	Y	
41	R	
42	W	
43	SB	
44	GR	
45	G	
46	P	
47	LG	
48	V	
49	G	
50	L	
51	W	
54	P	
55	O	
56	Y	
57	P	
58	LG	
60	LG	
61	GR	
62	BR	
63	O	
64	R	
65	Y	
66	G	
67	V	
68	W	
69	SB	
71	Y	
72	L	
73	R	
74	L	
75	V	
76	P	
80	O	

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

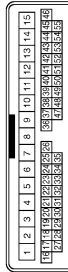
ON POWER SUPPLY

Connector No.	M1
Connector Name	FUSE BLOCK (J/B)
Connector Type	L01F1F-MC



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

Connector No.	M1D
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



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	-
48	GR	-
49	R	-
50	BR	-
52	B	-

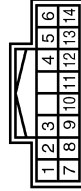
53	Y	-
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Connector No.	M11
Connector Name	WIRE TO WIRE
Connector Type	TH40MW-CS15



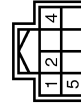
Terminal No.	Color of Wire	Signal Name [Specification]
1	P	-
2	L	-
3	G	-
4	V	-
7	BR	-
8	Y	-
9	LG	-
10	Y	-
11	W	-
12	SB	-
13	B	-
14	L	-
15	R	-
24	R	-
25	G	-
26	SHIELD	-
37	LG	-
38	V	-
39	P	-
40	Y	-
41	B	-
42	P	-
43	L	-
44	L	-
45	LG	-
46	BR	-
47	W	-
48	GR	-
49	R	-
50	BR	-
53	V	-

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



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

Connector No.	M30
Connector Name	STEERING ANGLE SENSOR
Connector Type	TH68FW-NH



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

Connector No.	M89
Connector Name	BLOWER MOTOR
Connector Type	TH02FW



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

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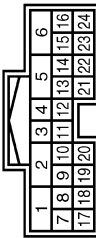
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

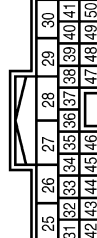
ON POWER SUPPLY

Connector No.	M58
Connector Name	ELECTRIC SHIFT CONTROL MODULE
Connector Type	TH20FW-TB4-1V



Terminal No.	Color of Wire	Signal Name [Specification]
1	L	MOTOR COIL A U-PHASE
2	G	MOTOR COIL A V-PHASE
3	B	GND
4	B	GND
5	Y	MOTOR COIL A W-PHASE
6	B	GND (MOTOR)
7	W	MAIN POWER SUPPLY 1
8	R	BACK UP POWER SUPPLY
9	BR	POWER SW 1
10	Y	ANGLE SENSOR 1 POWER SUPPLY
11	L	ANGLE SENSOR 1 SIGNAL
12	W	P/N 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	TH20FW-TB6-1V



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 POWER SUPPLY 2
49	G	ANGLE SENSOR 2 GND
50	LG	ELECTRIC SHIFT SENSOR GND 2

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	GND
3	Y	DR 1 (+)
4	GR	DR1 (-) DR2 (+)
5	Y/V	DR 2 (+)
6	Y/G	ASI (+)
7	Y/B	ASI (-)
8	Y/L	ASS (-)

Terminal No.	Color of Wire	Signal Name [Specification]
9	Y/V	AS2 (-)
18	R	EGZS2 (+)
19	W	EGZS2 (-)
22	SHIELD	SHIELD
23	R	AIR BAG W/L
24	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

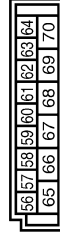
Connector No.	M68
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	TH40FB-NH



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/RECEIV GND
21	P	NATS ANTENNA AMP.
23	R	SECURITY IND LAMP CONT
24	SB	DONGLE UNLK
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

Terminal No.	Color of Wire	Signal Name [Specification]
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 COMM
39	L	CAN-H
40	P	CAN-L

Connector No.	M69
Connector Name	BCM (BODY CONTROL MODULE)
Connector Type	FEA09FW-FHA6-SA



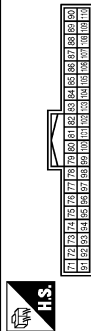
Terminal No.	Color of Wire	Signal Name [Specification]
56	P	INT ROOM LAMP PWR SPLY
57	P	BAT (FUSE)
59	LG	PASS DOOR UNLK OUTPUT
60	V	TURN SIG LH OUTPUT
61	W	TURN SIG RH OUTPUT
63	BR	INT ROOM LAMP CONT
65	V	ALL DOOR LOCK OUTPUT
66	G	DR DOOR UNLK OUTPUT
67	B	GND
68	L	PW PWR SPLY (ON)
69	P	PW PWR SPLY (BAT)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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

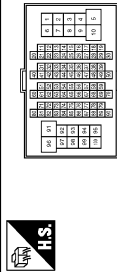
ON POWER SUPPLY

Connector No.	M70
Connector Name	BCM BODY CONTROL MODULE
Connector Type	TH4CPV-NH



Terminal No.	Color of Wire	Signal Name [Specification]
75	LG	DR DOOR REQ SW
76	SB	POWER SW (PUSH SW)
78	P	DRIVER DOOR ANT+
79	V	DRIVER DOOR ANT-
80	LG	PASS DOOR ANT+
81	Y	PASS DOOR ANT-
82	W	REAR EMPR ANT+
83	B	REAR EMPR ANT-
84	BR	ROOM ANT 1+
85	Y	ROOM ANT 1-
86	G	ROOM ANT 2+
87	R	ROOM ANT 2-
88	V	LUGGAGE ROOM ANT+
89	LG	LUGGAGE ROOM ANT-
90	W	POWER SW ILL PWR
91	V	ACC / ON IND
92	B	POWER SW ILL GND CONT
93	GR	F-KEY WARM BUZZER
96	BR	ACC RELAY CONT
97	W	READY
98	G	IGN RELAY (PDM / R) CONT
99	R	IGN RELAY (E / 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.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH8CFY-CS16-TM4



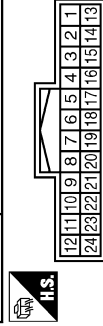
Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	
2	V	
3	GR	
4	LG	
6	W	
7	V	
8	P	
9	SB	
10	L	
11	LG	
12	W	
13	R	
14	Y	
15	R	
16	G	
17	BR	
19	G	
20	G	
21	P	
22	LG	
23	GR	
24	L	
25	Y	
26	G	
27	L	
29	V	
30	W	
31	SB	
32	LG	
33	V	
34	L	
35	SB	
38	LG	
39	GR	
40	Y	
41	R	
42	W	
43	SB	

Connector No.	M78
Connector Name	WIRE TO WIRE
Connector Type	LO2MB-MC



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

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH2FPV-NH



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

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	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	

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY

Connector No.	M82
Connector Name	WIRE TO WIRE
Connector Type	MO2FW-LC



1	2
3	4

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

Connector No.	M89
Connector Name	WIRE TO WIRE
Connector Type	MO2FW-LC



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

Connector No.	M343
Connector Name	WIRE TO WIRE
Connector Type	MO2MW



2	1
4	3

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	-



1	4
2	3

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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

POWER SUPPLY ROUTING CIRCUIT

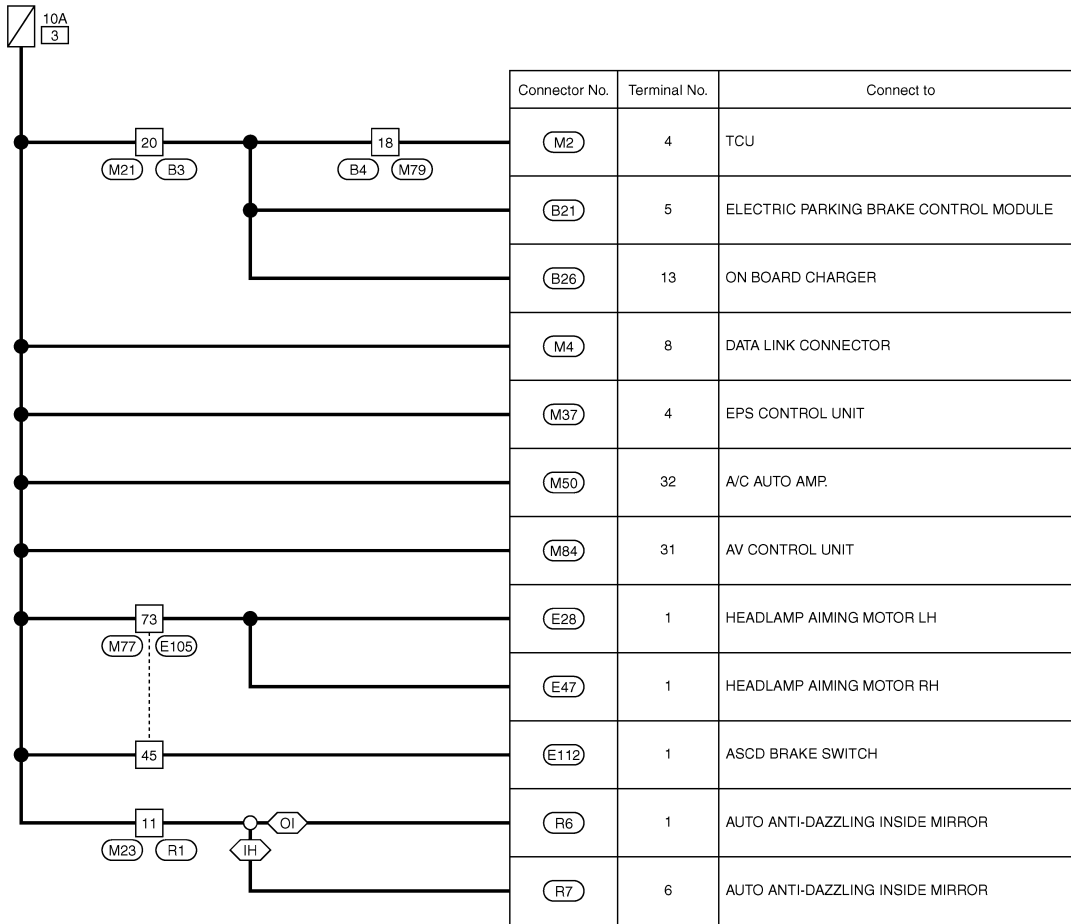
< WIRING DIAGRAM >

Wiring Diagram - ON POWER SUPPLY FUSE No.3 -

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ON POWER SUPPLY FUSE No. 3

 : With integrated homelink transmitter
 : Without integrated homelink transmitter



2010/10/29

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY FUSE No. 3

Connector No.	B3
Connector Name	WIRE TO WIRE
Connector Type	TH2MW-NH

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Color of Wire	R	-	SHIELD	B	W	R	G	L	G	G	L	BR	Y	B	L	P
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Color of Wire	R	-	SHIELD	B	W	R	G	L	G	G	L	BR	Y	B	L	P
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Connector No.	B4
Connector Name	WIRE TO WIRE
Connector Type	TH2MW-NH

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Color of Wire	R	-	SHIELD	B	W	R	G	L	G	G	L	BR	Y	B	L	P	-	-	-	-	-	-	-	-
Signal Name [Specification]	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Terminal No.	8	11	12	17	18	20	21
Color of Wire	BR	R	G	G	R	B	W
Signal Name [Specification]	-	-	-	-	-	-	-

Terminal No.	22	23	24
Color of Wire	V	LG	SHIELD
Signal Name [Specification]	-	-	-

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

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Color of Wire	W	LG	GR	R	V	P	L	W	B	Y	SB	G	L	SHIELD	CAN-H	
Signal Name [Specification]	TENSION SENSOR1 SIGNAL	TENSION SENSOR POWER SUPPLY	TENSION SENSOR2 SIGNAL	POWER SWITCH ON	CONTROL MODULE BATTERY CAN-L	RELEASE SW SIGNAL	ANALOG SW POWER SUPPLY	TENSION SENSOR GND	ANALOG SW GND	BRAKE SW SIGNAL	SHIELD GND	CAN-H	-	-	-	-

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Color of Wire	W	LG	GR	R	V	P	L	W	B	Y	SB	G	L	SHIELD	CAN-H	
Signal Name [Specification]	TENSION SENSOR1 SIGNAL	TENSION SENSOR POWER SUPPLY	TENSION SENSOR2 SIGNAL	POWER SWITCH ON	CONTROL MODULE BATTERY CAN-L	RELEASE SW SIGNAL	ANALOG SW POWER SUPPLY	TENSION SENSOR GND	ANALOG SW GND	BRAKE SW SIGNAL	SHIELD GND	CAN-H	-	-	-	-

Connector No.	B26
Connector Name	ON BOARD CHARGER
Connector Type	RH12FB

Terminal No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
Color of Wire	W	LG	GR	R	V	P	L	W	B	Y	SB	G	L	SHIELD	CAN-H							
Signal Name [Specification]	BATTERY POWER SUPPLY	BATTERY POWER SUPPLY	POWER ON POWER SUPPLY	POWER ON POWER SUPPLY	NORMAL CHARGE RELAY +	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Terminal No.	11	12	13	14	15	16
Color of Wire	Y	W	V	P	-	-
Signal Name [Specification]	BATTERY POWER SUPPLY	BATTERY POWER SUPPLY	POWER ON POWER SUPPLY	NORMAL CHARGE RELAY +	-	-

Terminal No.	15	16	17	18	19	20	21	22
Color of Wire	LG	L	SB	GR	L	G	BR	B
Signal Name [Specification]	NORMAL CHARGE RELAY -	QUICK CHARGE RELAY +	QUICK CHARGE RELAY -	EV ACTIVATION REQUEST SIGNAL	EV SYSTEM CAN-H	EV SYSTEM CAN-L	PLUG IN SIGNAL	GROUND

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

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

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

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

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

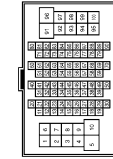
Terminal No.	1	2	3
Color of Wire	R	L	B/Y
Signal Name [Specification]	-	-	-

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY FUSE No. 3

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	THRMW-CS(E)-TM4



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

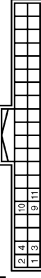
44	GR	
45	G	
46	P	
47	LG	
48	V	
49	G	
50	L	
51	W	
54	P	
55	O	
56	Y	
57	P	
58	LG	
60	LG	
61	GR	
62	BR	
63	O	
64	R	
65	Y	
66	G	
67	V	
68	W	
69	SB	
71	Y	
72	L	
73	R	
74	L	
75	V	
76	P	
80	O	
81	L	
82	SB	
83	G	
84	BR	
85	LG	
86	GR	
88	B	
89	W	
90	SHIELD	
91	Y	
92	BR	
93	W	
94	R	
95	V	
96	P	
97	G	
98	SB	
99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

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



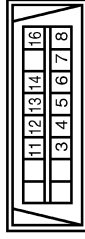
Terminal No.	Color of Wire	Signal Name [Specification]
1	G	
2	O	

Connector No.	M2
Connector Name	TCU
Connector Type	THMUFW-NH



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

Connector No.	M4
Connector Name	DATA LINK CONNECTOR
Connector Type	BDJ6FW



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	

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY FUSE No. 3

Connector No.	M21
Connector Name	WIRE TO WIRE
Connector Type	TH22FW-NH



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

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	WIRE TO WIRE
Connector Type	TH18MW-NH

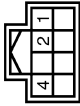


1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

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.	M37
Connector Name	EPS CONTROL UNIT
Connector Type	TH49FW-NH



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

Connector No.	M50
Connector Name	A/C AUTO AMP.
Connector Type	TH49FW-NH



Terminal No.	Color of Wire	Signal Name [Specification]
1	V	REG
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	GND
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	LG	HEATED STEERING WHEEL RELAY CONTROL SIGNAL
23	SB	SEAT HEAT RELAY
27	W	5V OUT
28	L	EV CAN-H
29	G	EV CAN-L
30	R	SENS GND
31	W	BATT
32	Y	IGN 1
33	LG	INCAR SENS
34	G	INTAKE SENS
35	P	SUN SENS
36	GR	AMB SENS
37	BR	WATER SENS
38	SB	INT F/B
40	SB	PTC LIN

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY FUSE No. 3

Connector No.	M77
Connector Name	WIRE TO WIRE
Connector Type	TH80PV-CS1.6-TM4



Terminal No.	Color of Wire	Signal Name [Specification]
1	GR	-
2	V	-
3	GR	-
4	LG	-
5	W	-
6	W	-
7	P	-
8	P	-
9	SB	-
10	L	-
11	LG	-
12	W	-
13	R	-
14	Y	-
15	R	-
16	G	-
17	BR	-
18	G	-
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	-
39	GR	-
40	Y	-
41	R	-
42	W	-
43	SB	-

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	-

Connector No.	M79
Connector Name	WIRE TO WIRE
Connector Type	TH24PW-NH



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

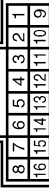
Connector No.	M84
Connector Name	AV CONTROL UNIT
Connector Type	TH40PW-NH



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 (8-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.	R1
Connector Name	WIRE TO WIRE
Connector Type	TH18FW-NH



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

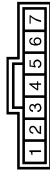
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY FUSE No. 3

Connector No.	R6
Connector Name	AUTO ANTI-DAZZLING INSIDE MIRROR
Connector Type	JJA03FB



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

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	GND
10	B/Y	BAT

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POWER SUPPLY ROUTING CIRCUIT

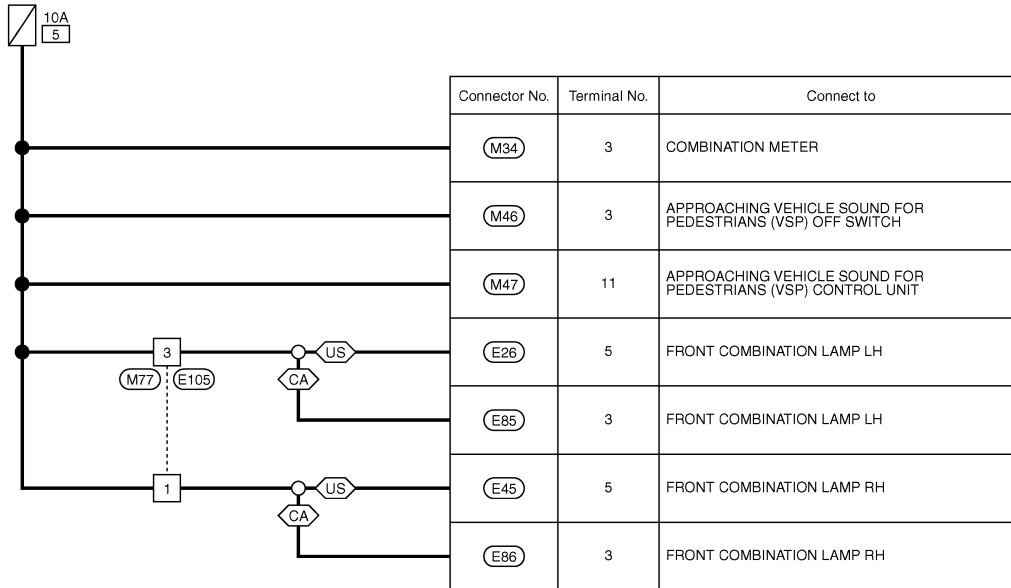
< WIRING DIAGRAM >

Wiring Diagram - ON POWER SUPPLY FUSE No.5 -

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ON POWER SUPPLY FUSE No. 5

US : For USA
CA : For Canada



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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY FUSE No. 5

Connector No.	E26
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RSBFGY-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.	E45
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RSBFGY-PR



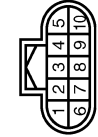
Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	O	-
3	G	-
4	B/Y	-
5	BR	-
6	P	-
7	R	-
8	B/Y	-

Connector No.	E85
Connector Name	FRONT COMBINATION LAMP LH
Connector Type	RH10PE



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

Connector No.	E86
Connector Name	FRONT COMBINATION LAMP RH
Connector Type	RH10PE



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

Connector No.	E105
Connector Name	WIRE TO WIRE
Connector Type	TH20MW-CS16-TM4



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

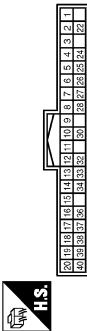
44	GR	-
45	G	-
46	P	-
47	LG	-
48	V	-
49	G	-
50	L	-
51	W	-
54	P	-
55	O	-
56	Y	-
57	P	-
58	LG	-
60	LG	-
61	GR	-
62	BR	-
63	O	-
64	R	-
65	Y	-
66	G	-
67	V	-
68	W	-
69	SB	-
71	Y	-
72	L	-
73	R	-
74	L	-
75	V	-
76	P	-
80	O	-
81	L	-
82	SB	-
83	G	-
84	BR	-
85	LG	-
86	GR	-
88	B	-
89	W	-
90	SHIELD	-
91	Y	-
92	BR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

POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY FUSE No. 5

Connector No.	M34
Connector Name	COMBINATION METER
Connector Type	TH40PV-NH



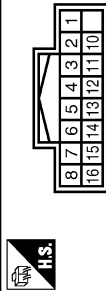
Terminal No.	Color of Wire	Signal Name [Specification]
1	LG	BATTERY POWER SUPPLY
2	R	BATTERY POWER SUPPLY (FOR UPPER METER)
3	GR	POWER SWITCH SUPPLY
4	BR	POWER SWITCH SUPPLY (FOR UPPER METER)
5	B	GROUND
6	B	GROUND
7	V	ELECTRIC SHIFT WARNING SIGNAL
8	Y	WASHER LEVEL SWITCH SIGNAL
9	G	PLUG IN SIGNAL
10	L	COMMUNICATION SIGNAL (METER → VSP)
11	P	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	V	SEAT BELT BUCKLE SWITCH SIGNAL (PASSENGER SIDE)
22	GR	GROUND (FOR UPPER METER)
24	BR	ELECTRIC PARKING BRAKE CONTROL SIGNAL (RUGLE SIGNAL)
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 (3-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.	M46
Connector Name	APPROACHING VEHICLE SOUND FOR PEDESTRIANS (VSP) OFF SWITCH
Connector Type	TK03FG-Y



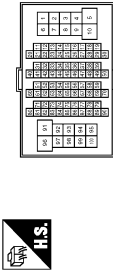
Terminal No.	Color of Wire	Signal Name [Specification]
2	LG	
3	GR	
4	B	
5	W	
6	B	
7	G	

Connector No.	M47
Connector Name	APPROACHING VEHICLE SOUND FOR PEDESTRIANS (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)
5	G	VSP OFF SWITCH SIGNAL
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 OFF INDICATOR SIGNAL
15	R	STRAT UP SOUND SPEAKER SIGNAL (-)
16	W	STRAT UP SOUND SPEAKER SIGNAL (+)

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



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	
29	V	
30	W	
31	SB	
32	LG	
33	V	
34	L	
35	SB	
38	LG	
39	GR	
40	Y	
41	R	
42	W	
43	SB	

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	
88	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	

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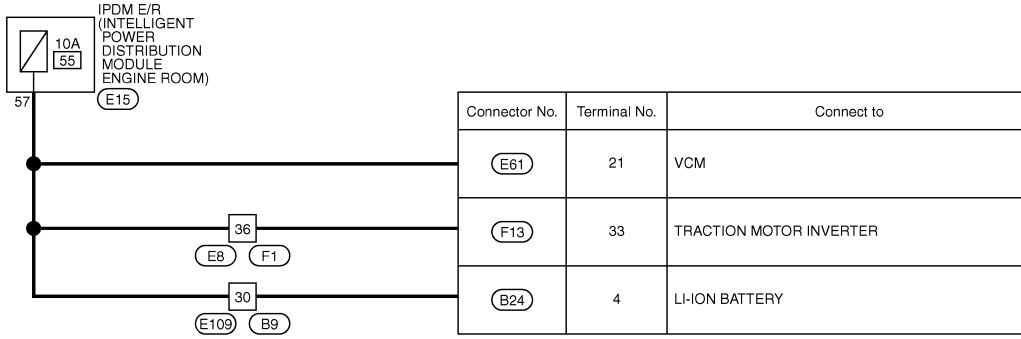
POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

Wiring Diagram - ON POWER SUPPLY FUSE No.55 -

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ON POWER SUPPLY FUSE No. 55



2010/10/29

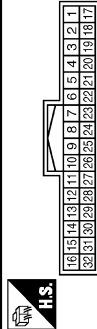
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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

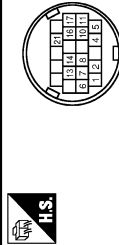
ON POWER SUPPLY FUSE No. 55

Connector No.	E89
Connector Name	WIRE TO WIRE
Connector Type	TH2FW-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	-
17	R	-
18	Y	-
19	G	-
20	V	-
21	SB	-
22	P	-
23	LG	-
24	L	-
25	Y	-
26	I	-
27	G	-
28	GR	-
29	R	-
30	R	-
31	Y	-

Connector No.	E24
Connector Name	LI-ION BATTERY
Connector Type	Yazaki: 7253-9750-30



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

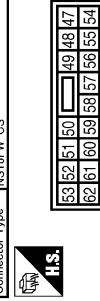
Connector No.	E8
Connector Name	WIRE TO WIRE
Connector Type	SA438MB-RS10-SJZZ



Terminal No.	Color of Wire	Signal Name [Specification]
1	Y	-
2	L	-
3	GR	-
4	LG	-
5	P	-
6	B	-
8	BR	-
10	B	-

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

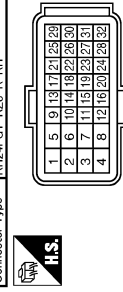
Connector No.	E15
Connector Name	12V 60 WATT LIGHT POWER DISTRIBUTION MODULE ENGINE ROOM
Connector Type	MS16FW-CS



Terminal No.	Color of Wire	Signal Name [Specification]
49	Y	-
50	G	-
51	L	-
52	P	-

55	LG	-
57	R	-
58	O	-
60	GR	-
61	Y	-
62	V	-

Connector No.	E61
Connector Name	VCM
Connector Type	RH24FY-RZ8-F-RH



Terminal No.	Color of Wire	Signal Name [Specification]
1	G	POWER ON POWER SUPPLY
4	B/R	GROUND
5	SB	A/C RELAY
6	R	BATTERY POWER SUPPLY
7	W	SSOFF RELAY
8	B/R	GROUND
9	L	EV SYSTEM CAN-H
13	G	EV SYSTEM CAN-L
15	O	ASCD BRAKE SWITCH SIGNAL
18	SB	STOP LAMP SW SIGNAL
21	R	POWER ON POWER SUPPLY
23	P	HIGH VOLTAGE CABLE INTERLOCK
25	L	CAN-H
26	Y	WATER PUMP 2 SIGNAL
28	W	WATER PUMP 1 SIGNAL
29	P	CAN-L

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POWER SUPPLY ROUTING CIRCUIT

< WIRING DIAGRAM >

ON POWER SUPPLY FUSE No. 55

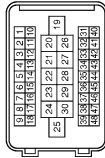
Connector No.	E109
Connector Name	WIRE TO WIRE
Connector Type	TH22MW-NH



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	W	-
2	R	-
3	Y	-
4	G	-
5	BR	-
6	L	-
7	O	-
8	V	-
9	SB	-
10	LG	-
11	L	-
12	LG	-
13	L	-
14	LG	-
15	BR	-
16	BR	-
17	O	-
18	V	-
19	SB	-
20	LG	-
21	L	-
22	LG	-
23	G	-
24	Y	-
25	W/L	-
26	L/Y	-
27	L/O	-
28	GR	-
29	P	-
30	R	-
31	W	-

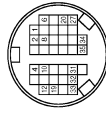
Connector No.	F1
Connector Name	WIRE TO WIRE
Connector Type	SAA38FB-RS10-SZZ



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

44	LG	-
47	V	-
48	P	-

Connector No.	F13
Connector Name	TRACTION MOTOR INVERTER
Connector Type	RH06FG-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 (S3)
8	B	GROUND
10	G	POWER SUPPLY (BATTERY)
12	L	EV SYSTEM CAN-H
14	V	EV SYSTEM CAN-L
19	G	TRACTION MOTOR RESOLVER SIGNAL (S2)
20	L	TRACTION MOTOR RESOLVER SIGNAL (S4)
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)

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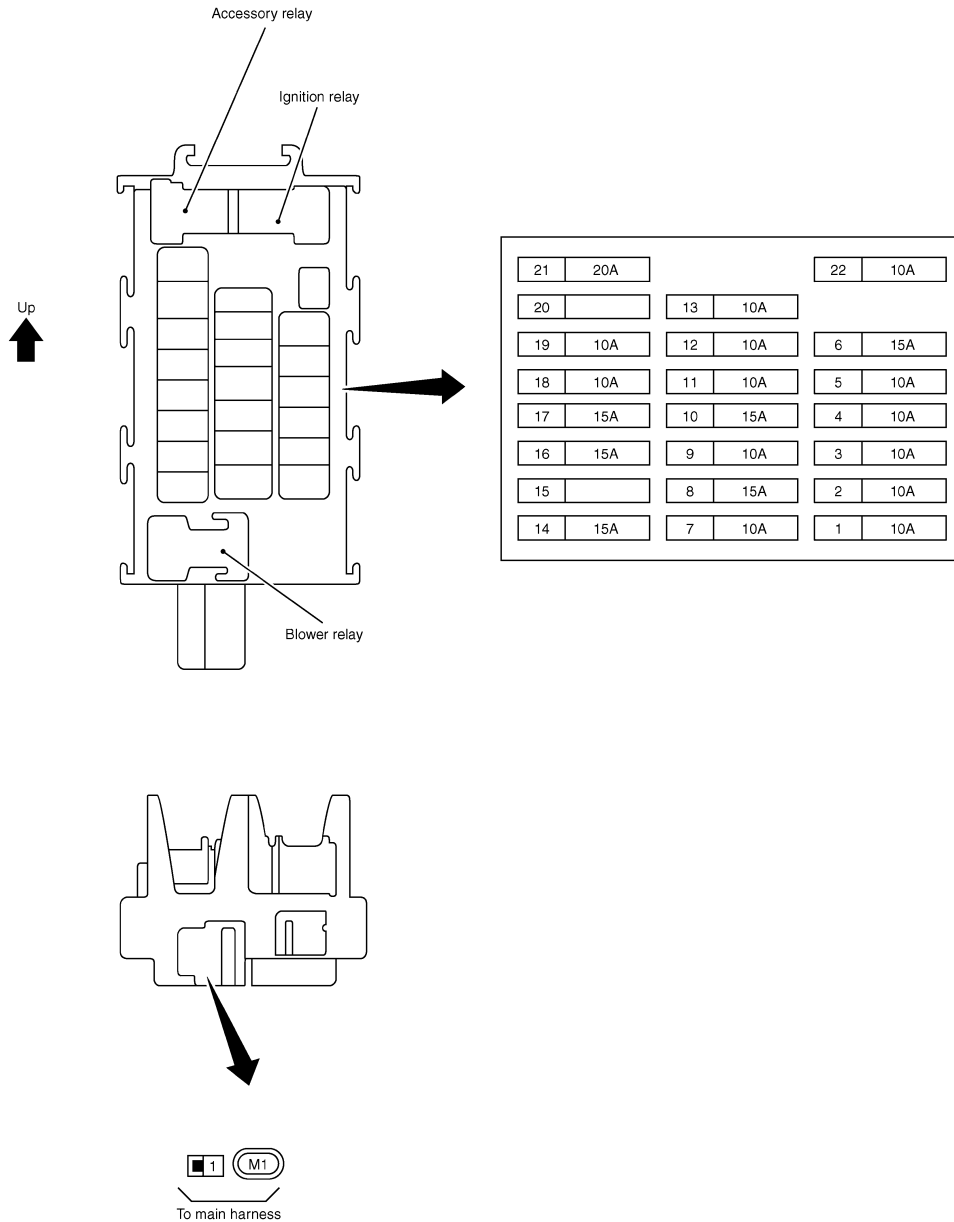
FUSE BLOCK - JUNCTION BOX (J/B)

< WIRING DIAGRAM >

FUSE BLOCK - JUNCTION BOX (J/B)

Fuse, Connector and Terminal Arrangement

INFOID:000000006968278



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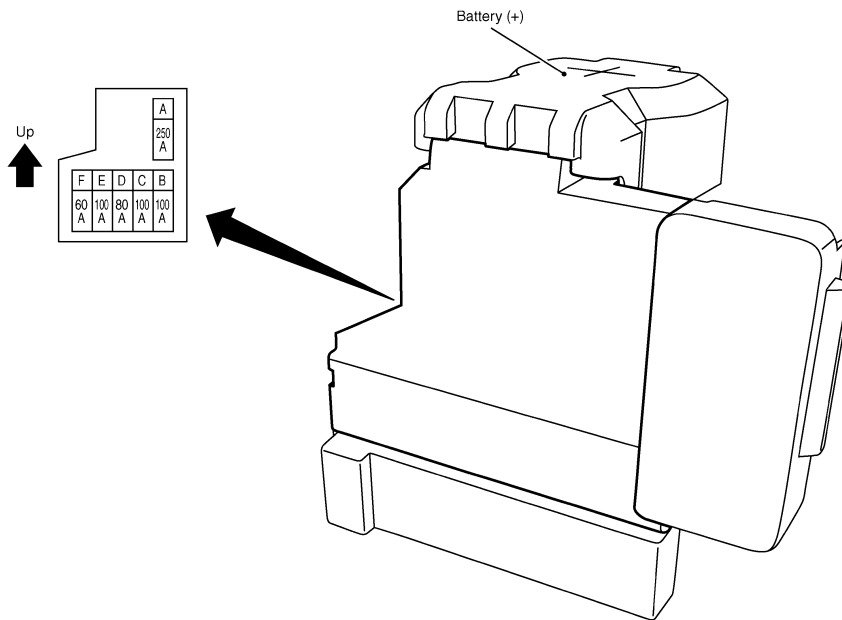
FUSE, FUSIBLE LINK AND RELAY BOX

< WIRING DIAGRAM >

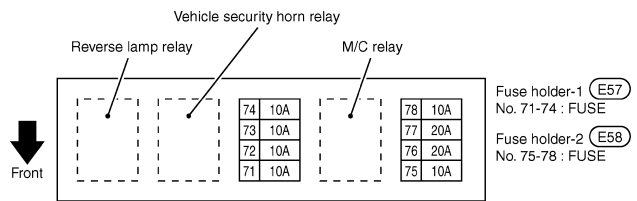
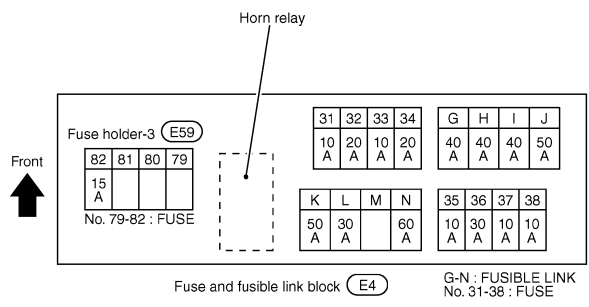
FUSE, FUSIBLE LINK AND RELAY BOX

Fuse and Fusible Link Arrangement

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



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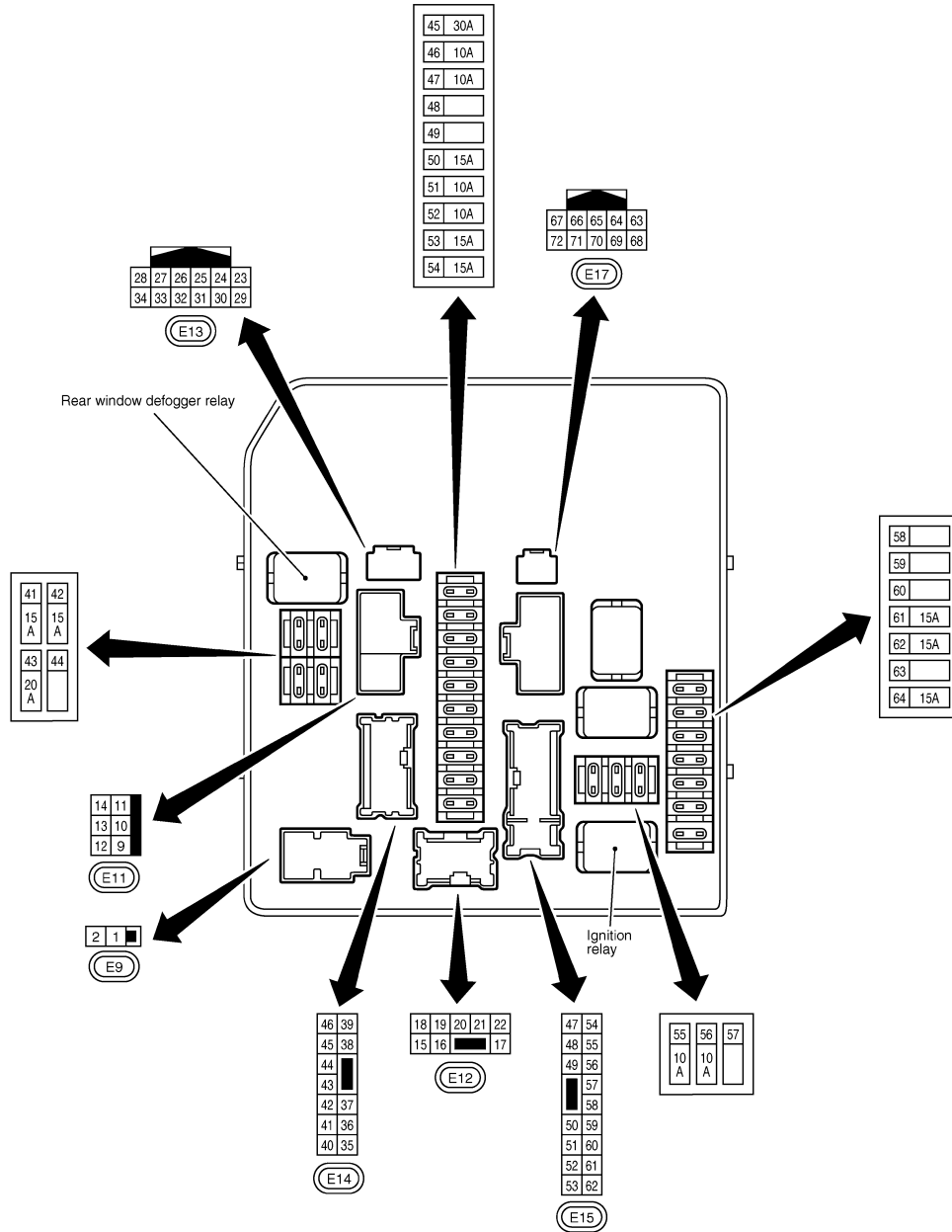
IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)

< WIRING DIAGRAM >

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

Fuse, Connector and Terminal Arrangement

INFOID:000000006968280



To engine room harness

2010/10/29

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HARNESS LAYOUT

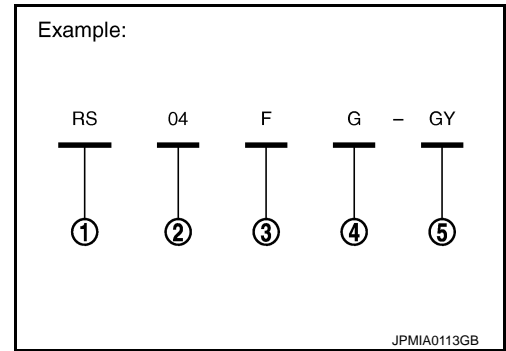
< WIRING DIAGRAM >

HARNESS LAYOUT

How To Read Harness Layout






INFOID:000000006968281

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



CONNECTOR SYMBOL

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

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

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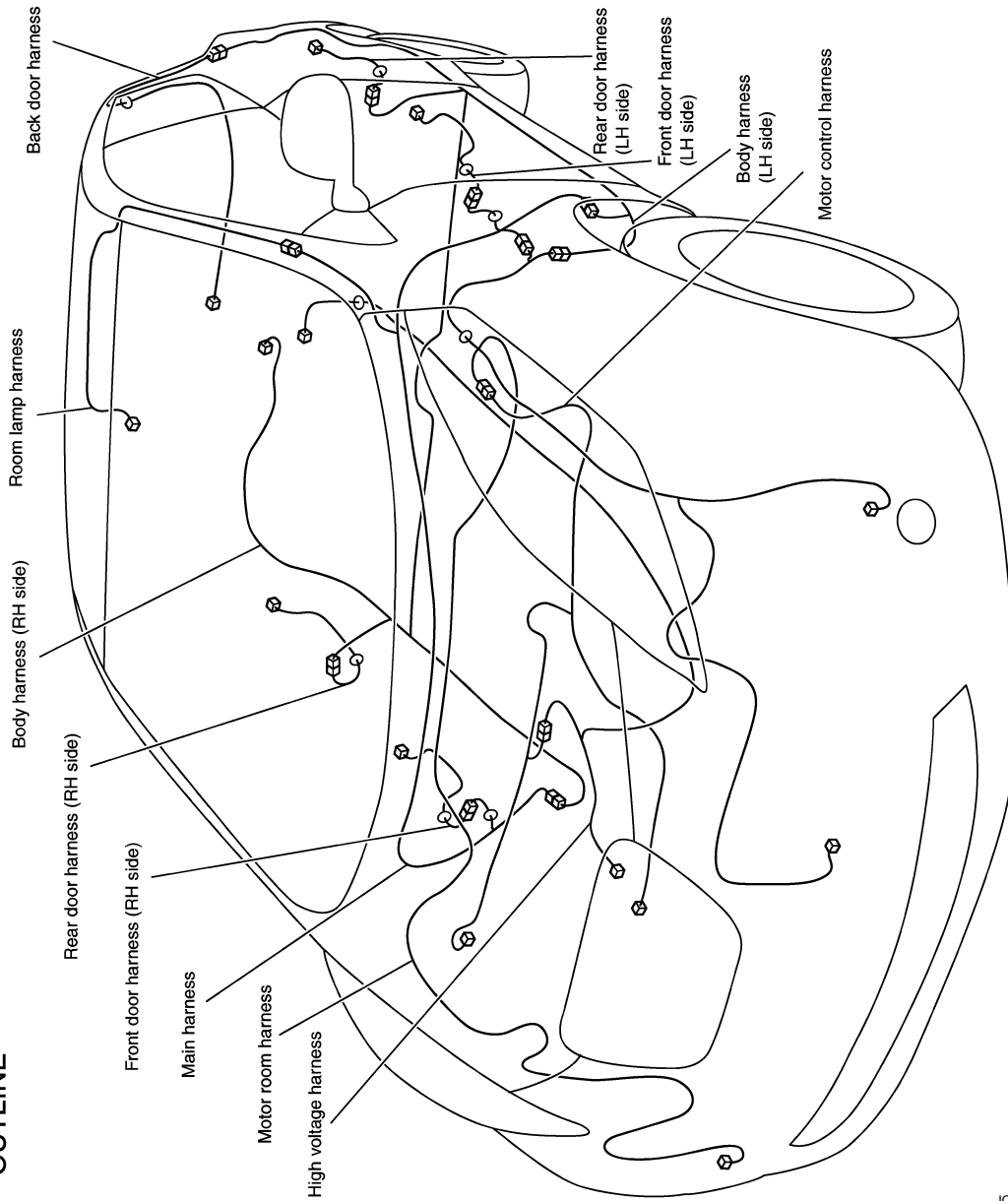
HARNESSES LAYOUT

< WIRING DIAGRAM >

Outline

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OUTLINE



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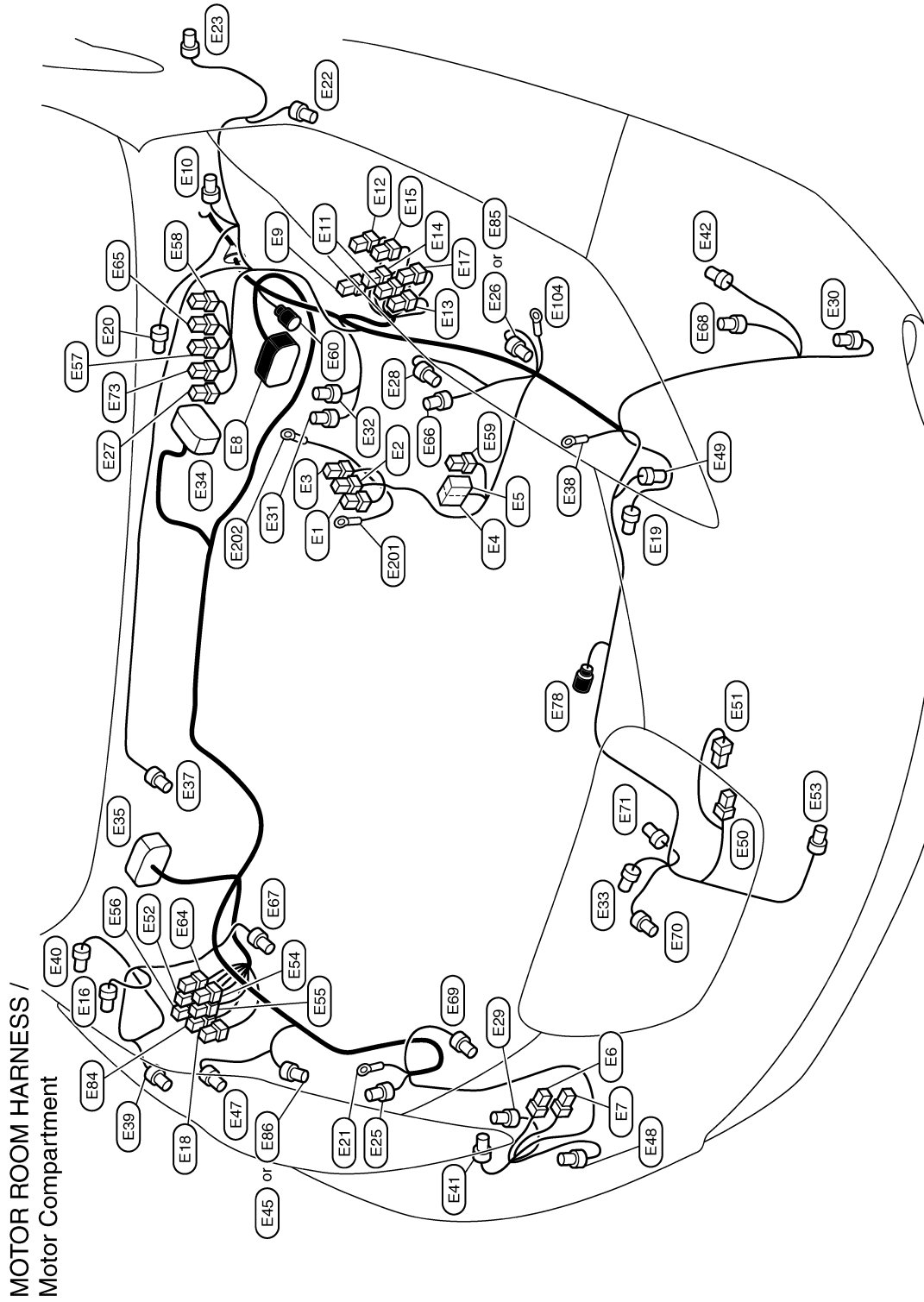
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HARNESS LAYOUT

< WIRING DIAGRAM >

Motor Room Harness

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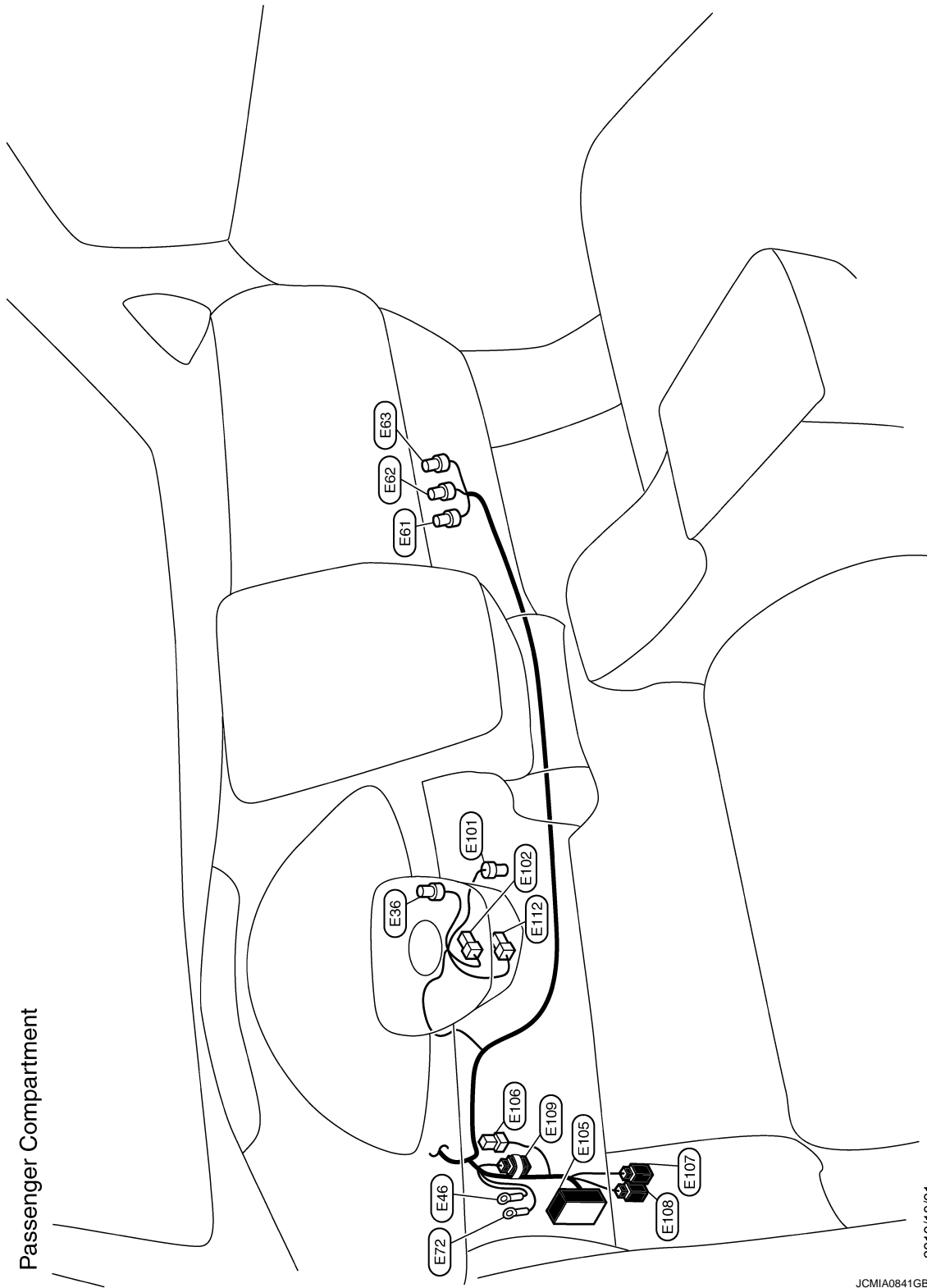
MOTOR ROOM HARNESS /
Motor Compartment

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HARNES LAYOUT

< WIRING DIAGRAM >



Passenger Compartment

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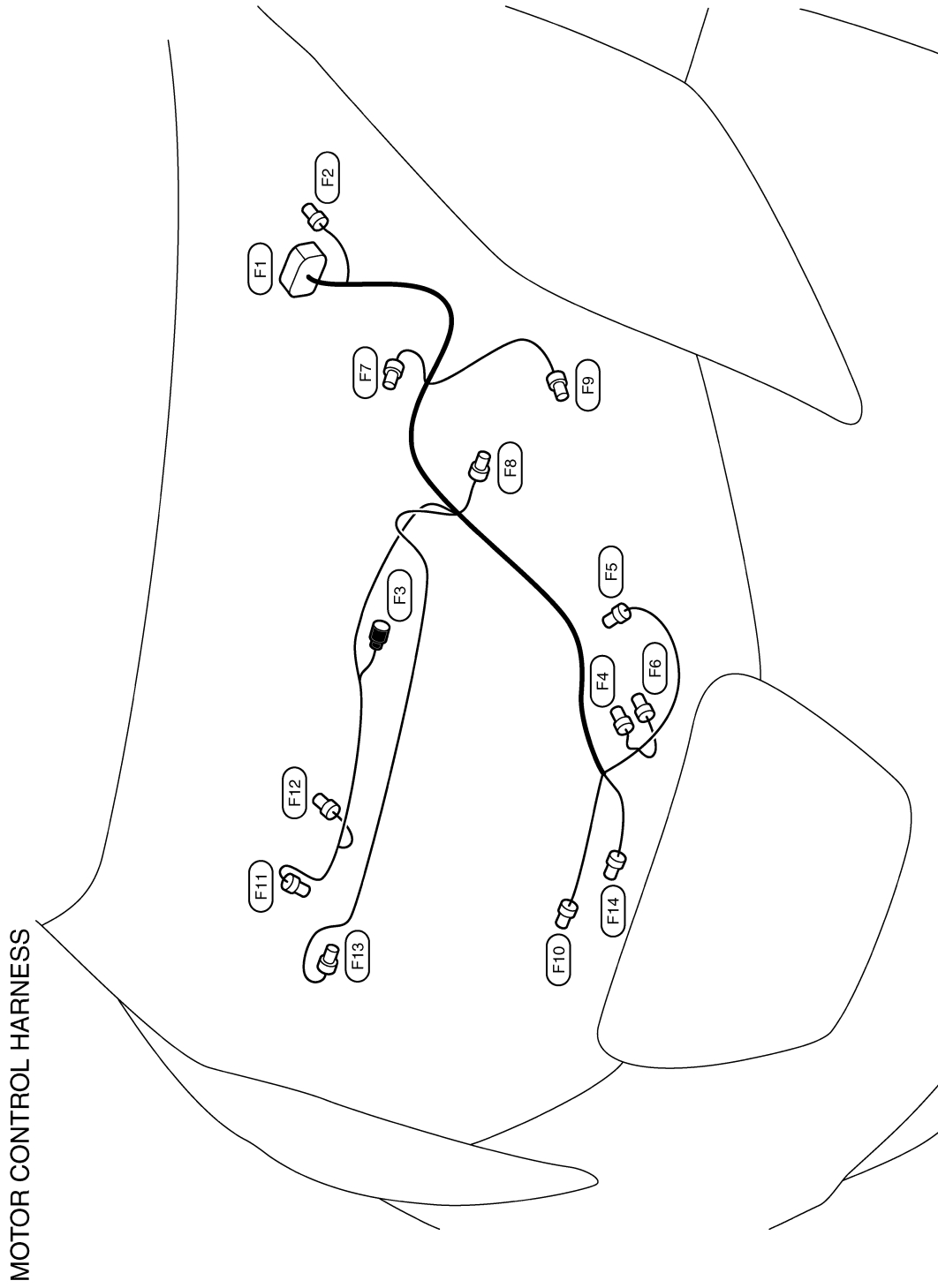
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HARNES LAYOUT

< WIRING DIAGRAM >

Motor Control Harness

INFOID:000000006968284



MOTOR CONTROL HARNESS

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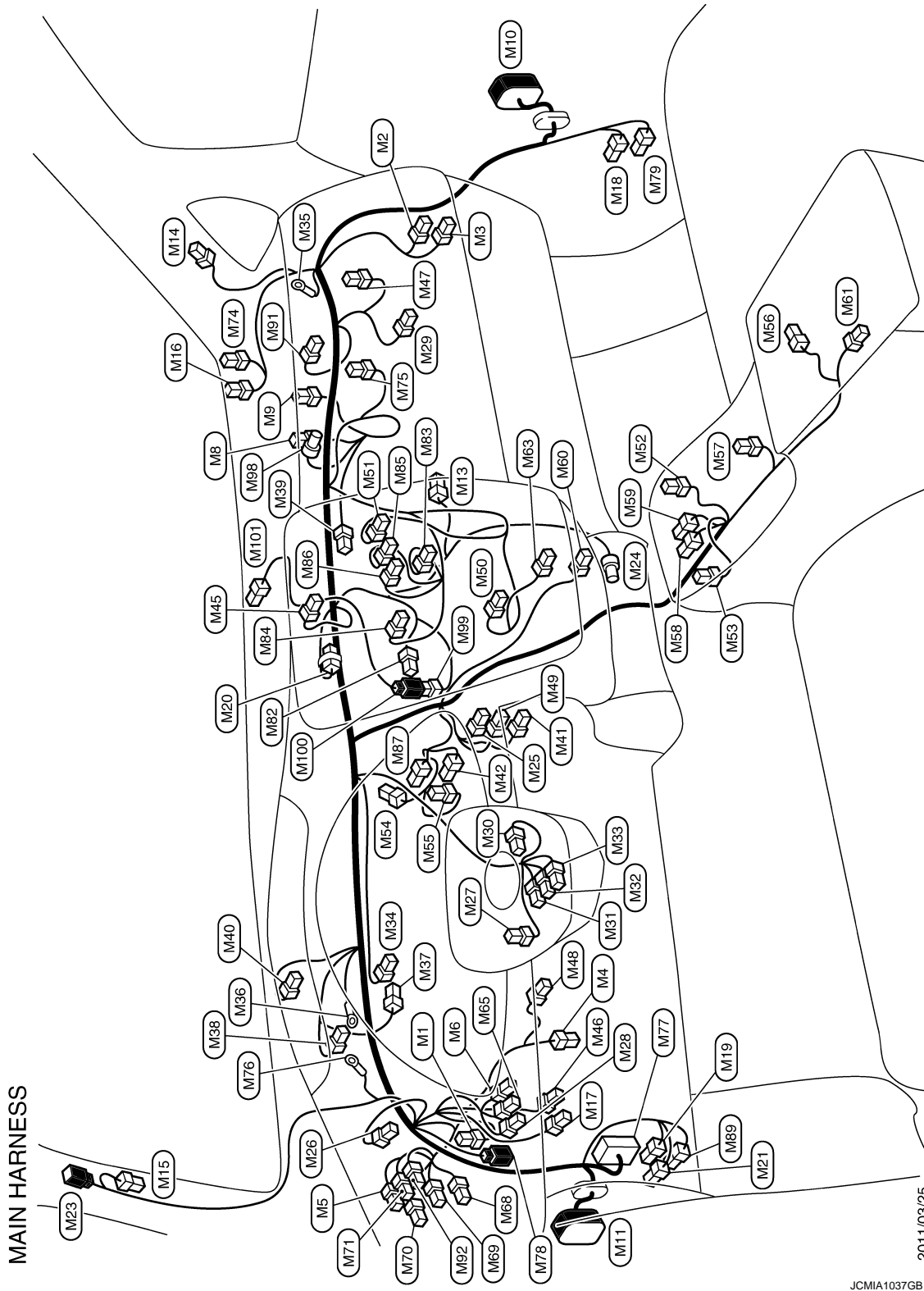
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HARNES LAYOUT

< WIRING DIAGRAM >

Main Harness

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MAIN HARNESS

2011/03/25

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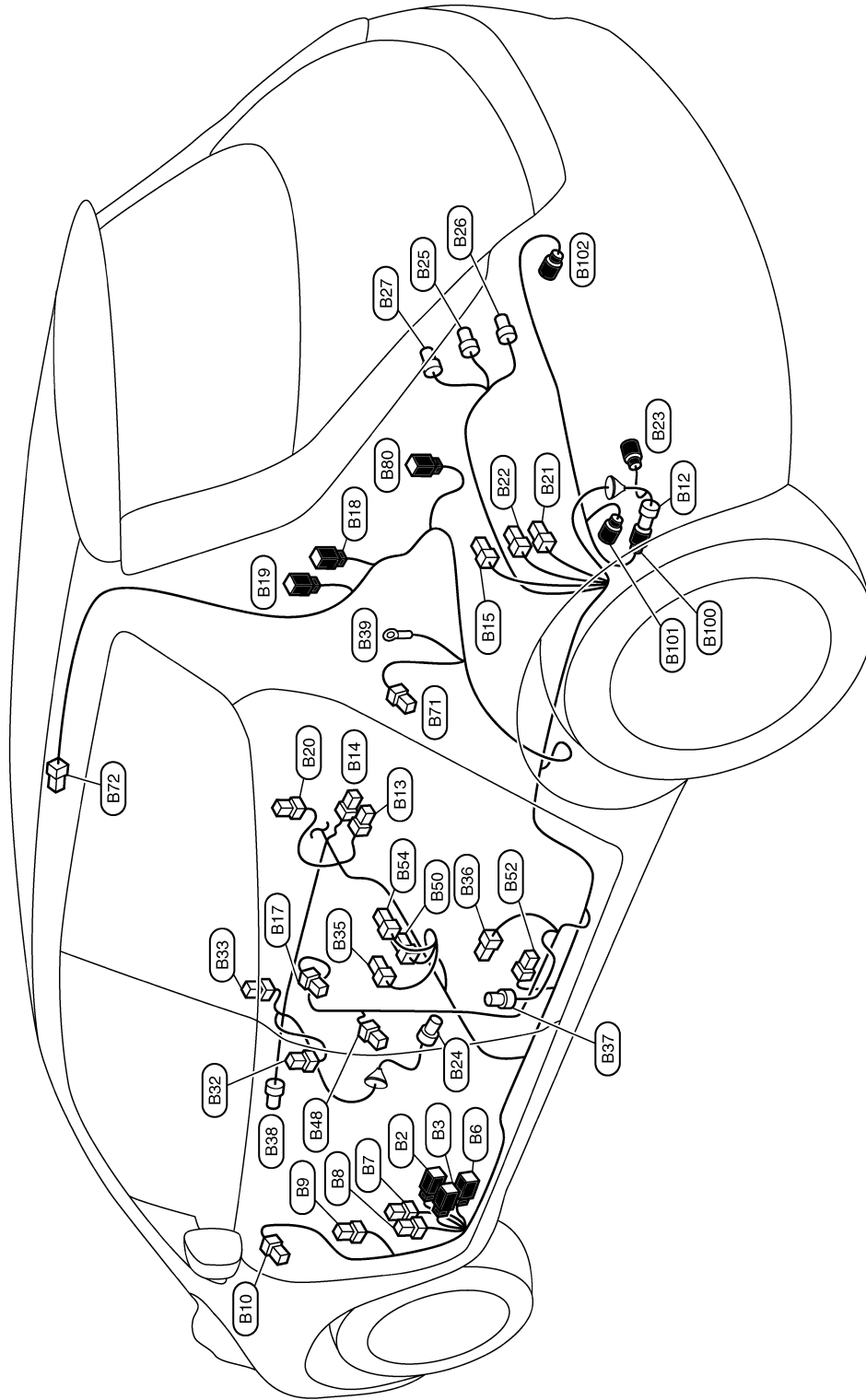
HARNES LAYOUT

< WIRING DIAGRAM >

Body Harness (LH Side)

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BODY HARNESS (LH SIDE)



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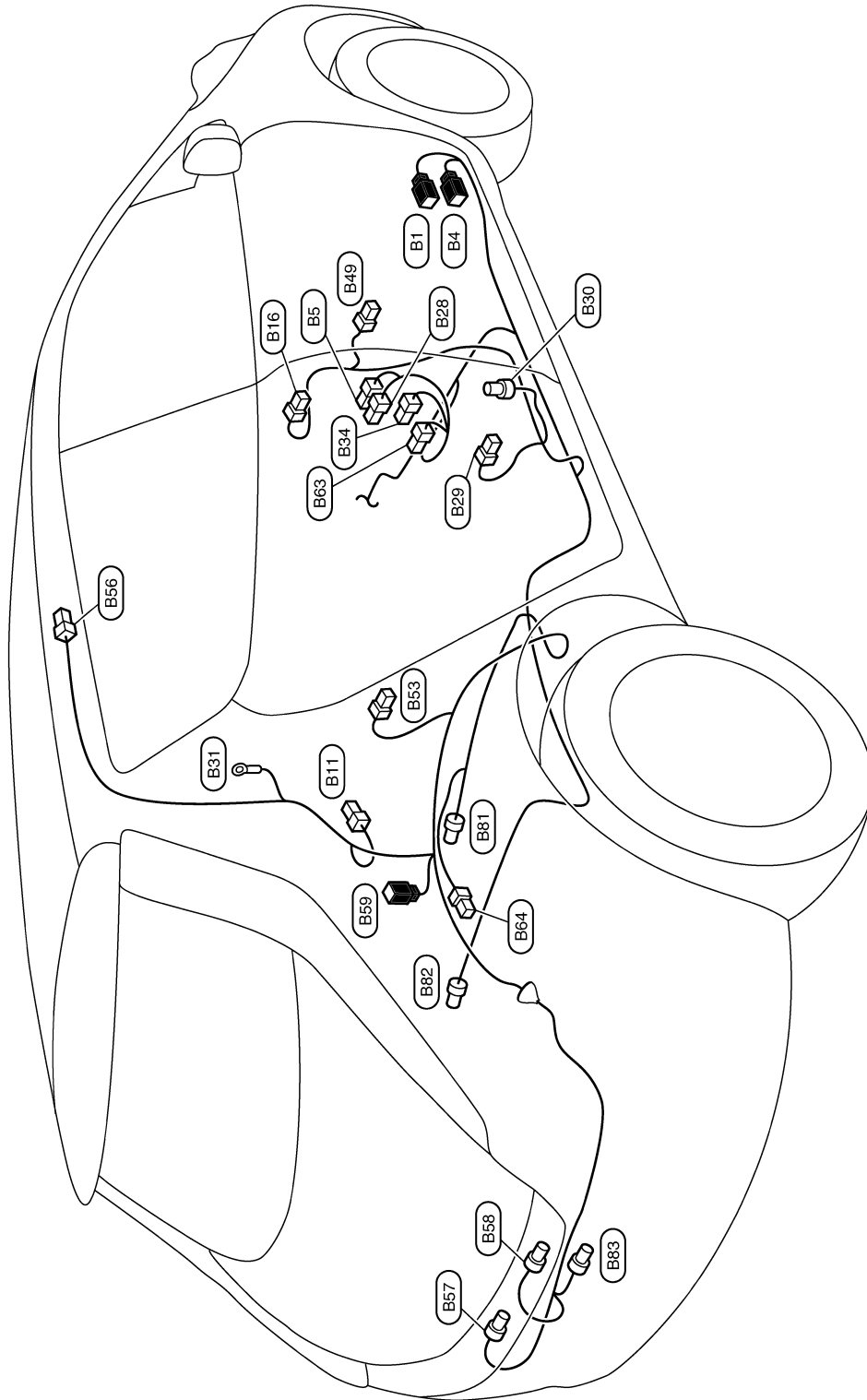
HARNES LAYOUT

< WIRING DIAGRAM >

Body Harness (RH Side)

INFOID:000000006968287

BODY HARNESS (RH SIDE)



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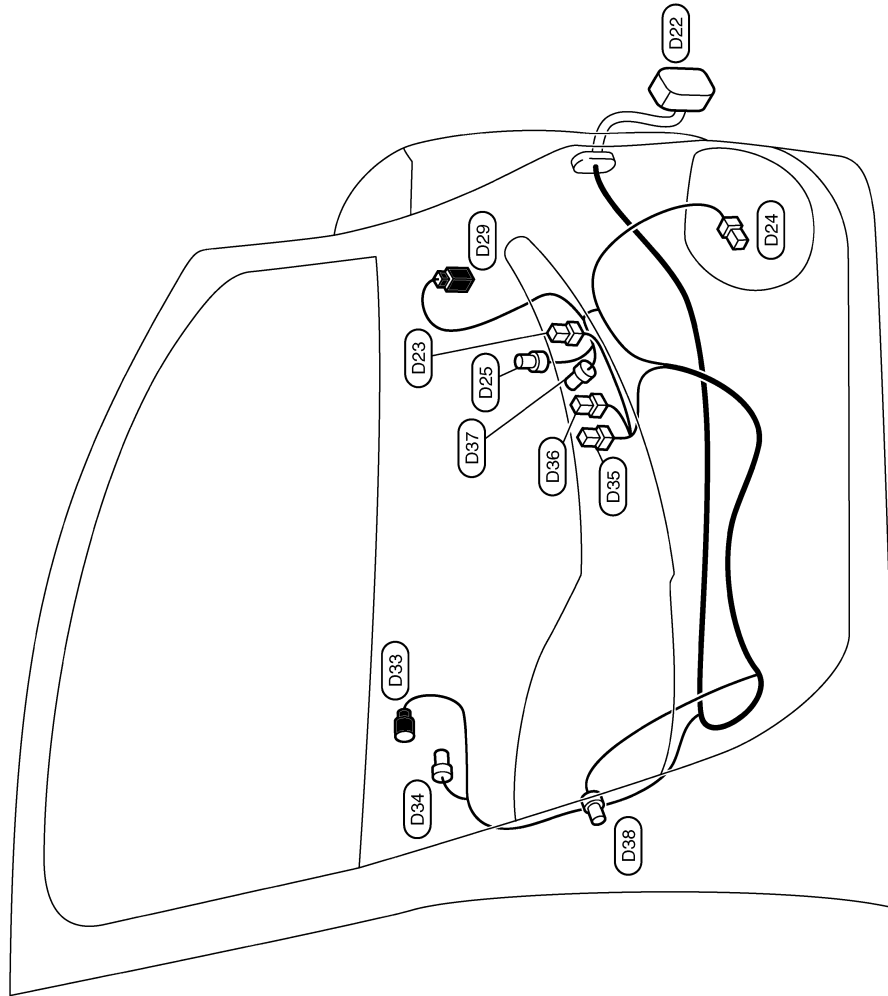
HARNESS LAYOUT

< WIRING DIAGRAM >

Front Door Harness (LH Side)

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FRONT DOOR HARNESS (LH SIDE)



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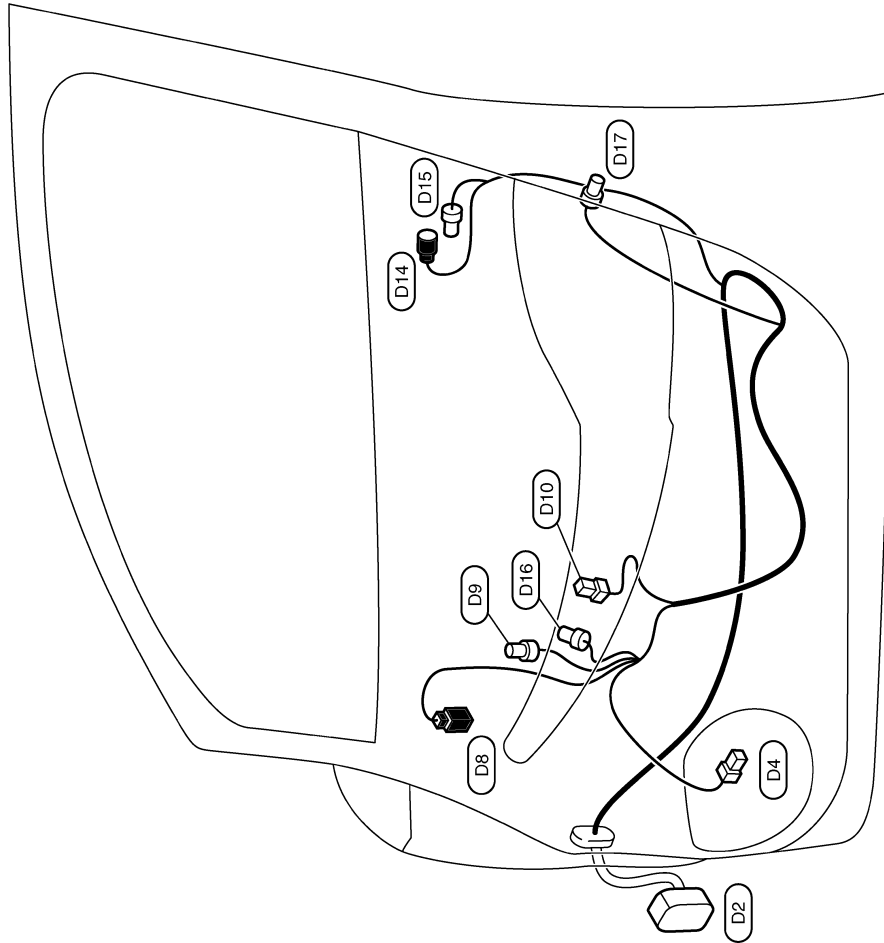
HARNESS LAYOUT

< WIRING DIAGRAM >

Front Door Harness (RH Side)

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FRONT DOOR HARNESS (RH SIDE)



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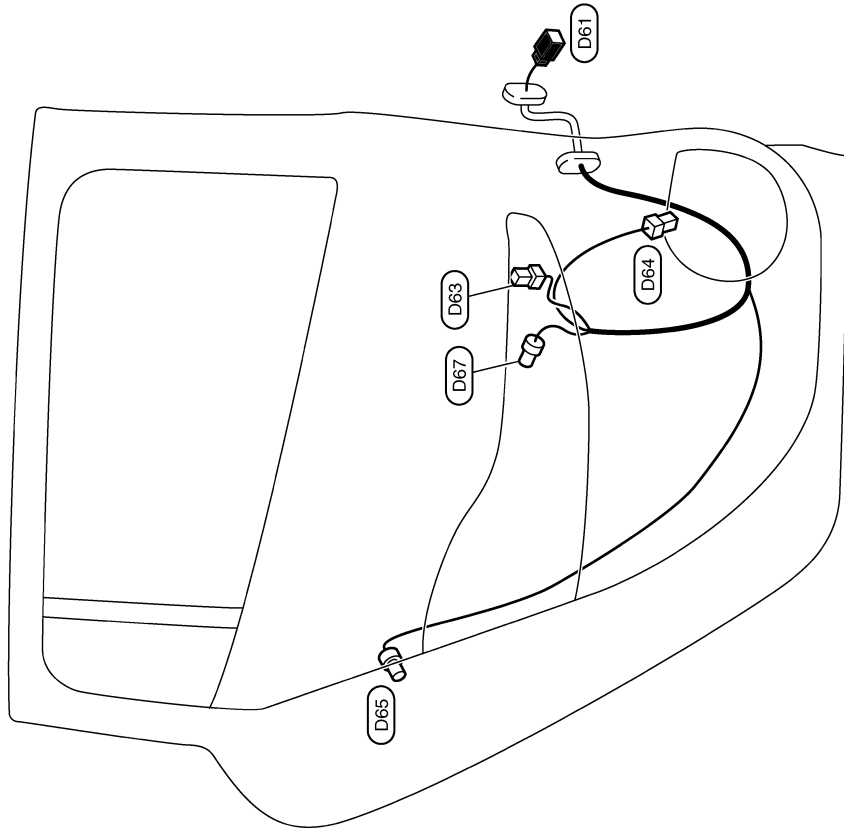
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HARNESS LAYOUT

< WIRING DIAGRAM >

Rear Door Harness (LH Side)

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REAR DOOR HARNESS (LH SIDE)

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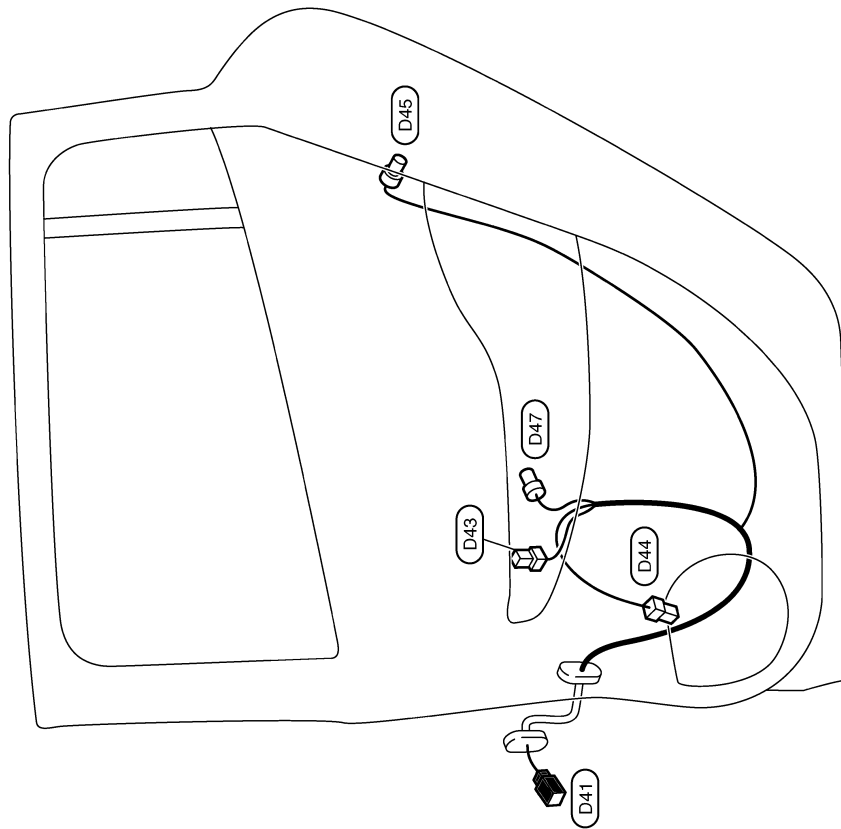
HARNES LAYOUT

< WIRING DIAGRAM >

Rear Door Harness (RH Side)

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REAR DOOR HARNESS (RH SIDE)



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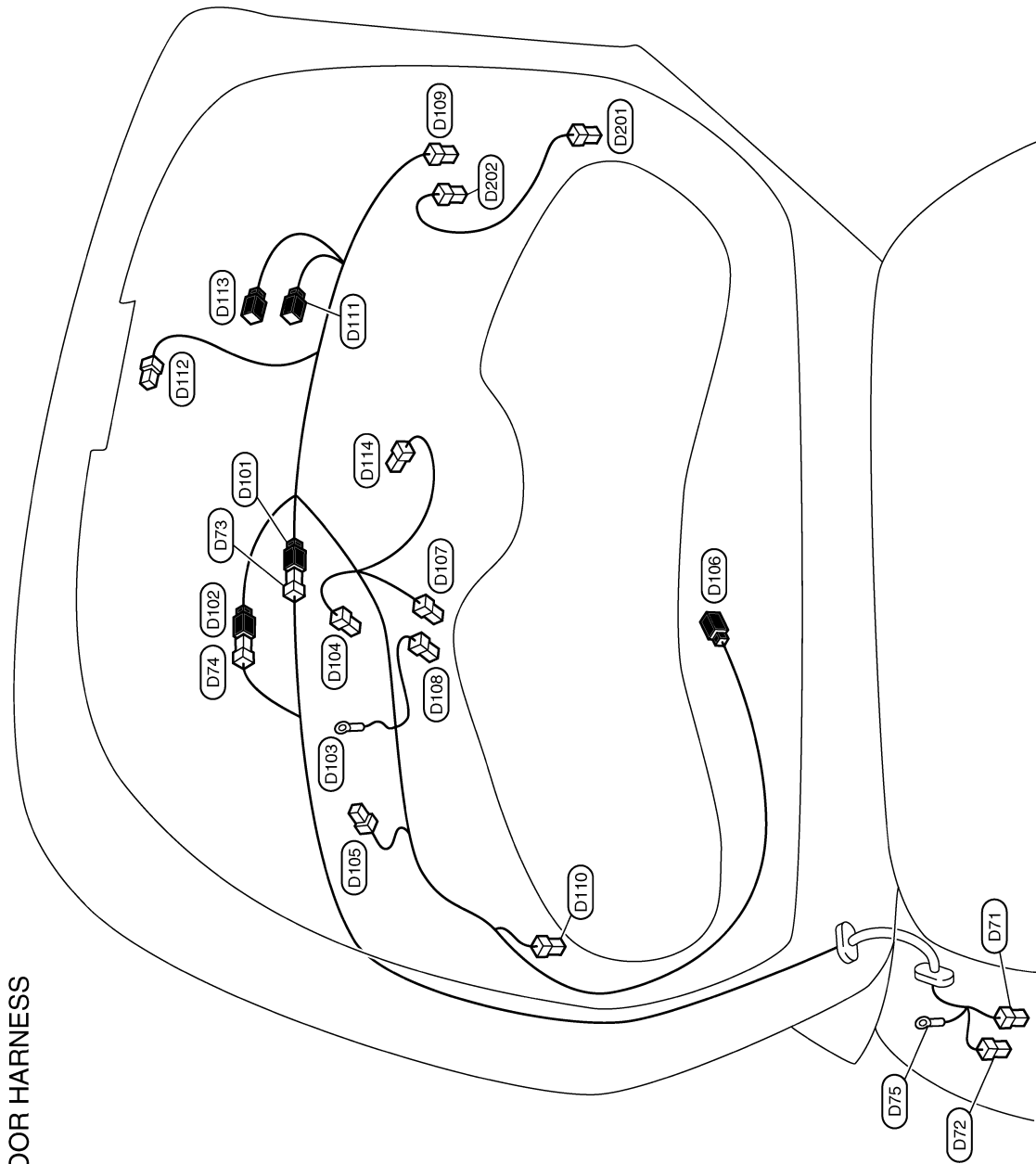
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HARNES LAYOUT

< WIRING DIAGRAM >

Back Door Harness

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BACK DOOR HARNESS

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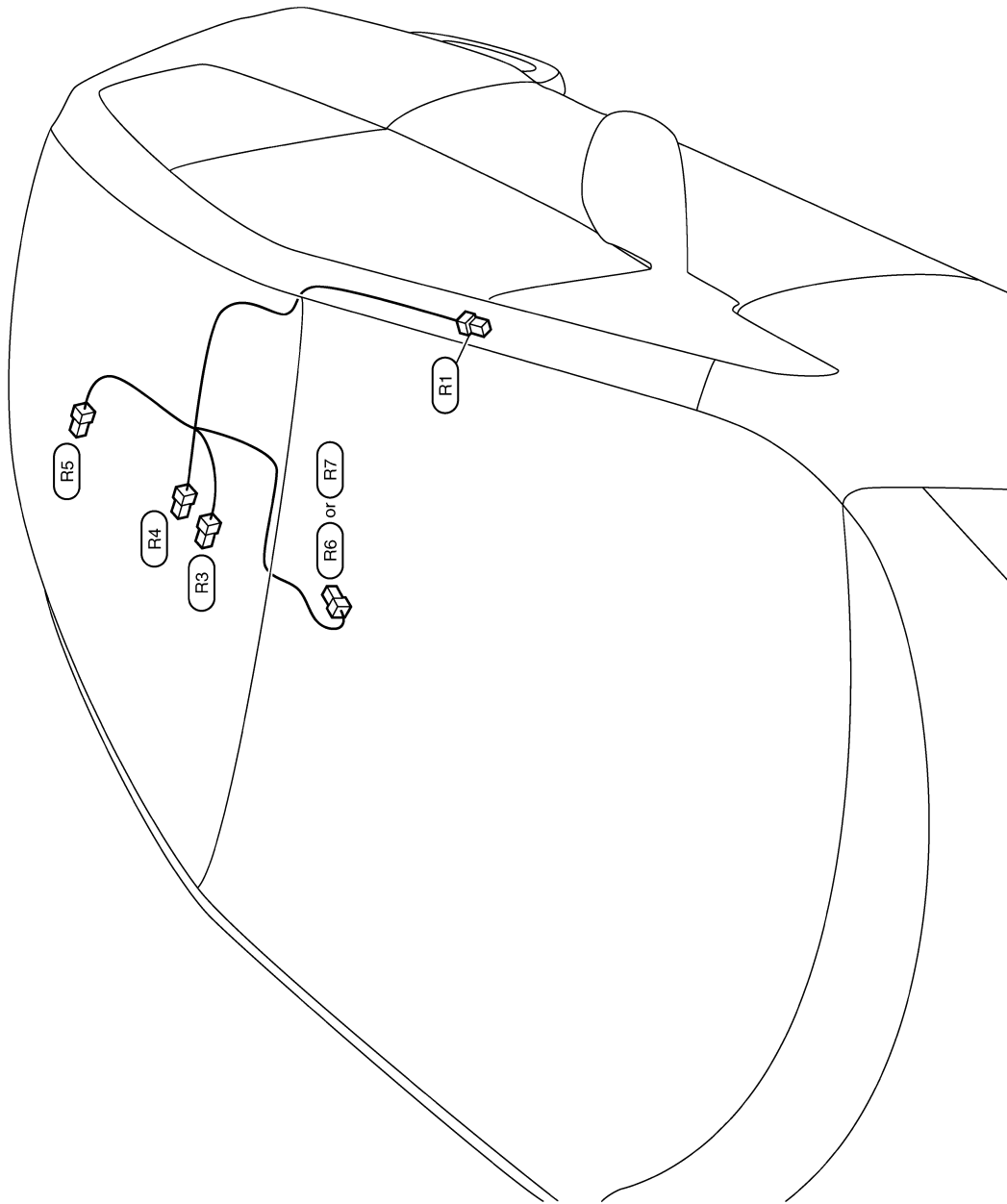
HARNES LAYOUT

< WIRING DIAGRAM >

Room Lamp Harness

INFOID:000000006968293

ROOM LAMP HARNESS



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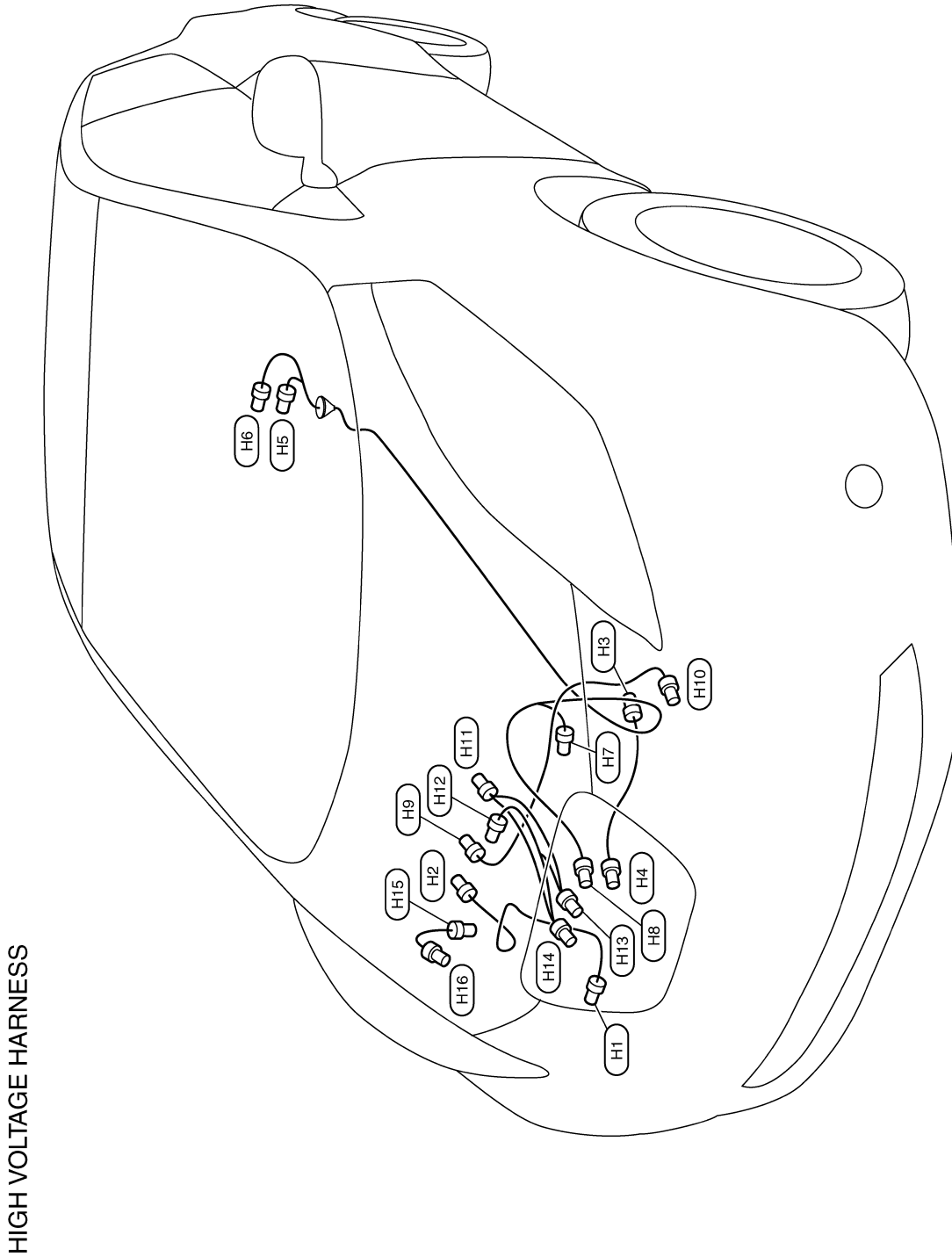
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HARNESS LAYOUT

< WIRING DIAGRAM >

High Voltage Harness

INFOID:000000006968294



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12V BATTERY INSPECTION

< BASIC INSPECTION >

BASIC INSPECTION

12V BATTERY INSPECTION

How to Handle 12V Battery

INFOID:000000006968301

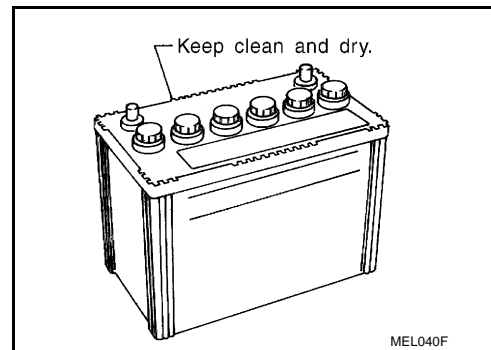
CAUTION:

- 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.

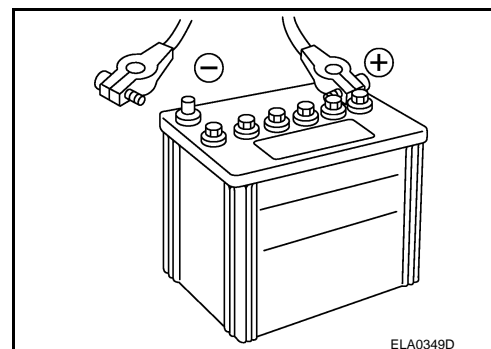
METHODS OF PREVENTING OVER-DISCHARGE

The following precautions must be taken to prevent over-discharging a 12V battery.

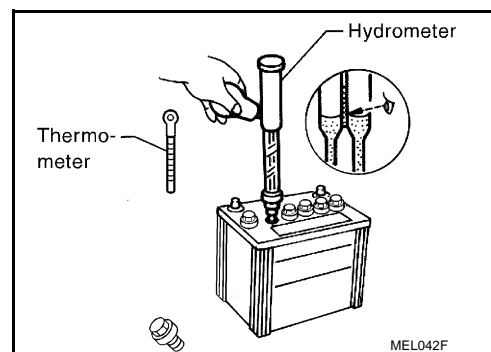
- The 12V battery surface (particularly its top) should always be kept clean and dry.
- The terminal connections should be clean and tight.
- At every routine maintenance, check the electrolyte level. This also applies to batteries designated as "low maintenance" and "maintenance-free".



- 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"](#).



- Check the charge condition of the 12V battery. Periodically check the specific gravity of the electrolyte. Keep a close check on charge condition to prevent over-discharge.



CHECKING ELECTROLYTE LEVEL

WARNING:

Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a 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.

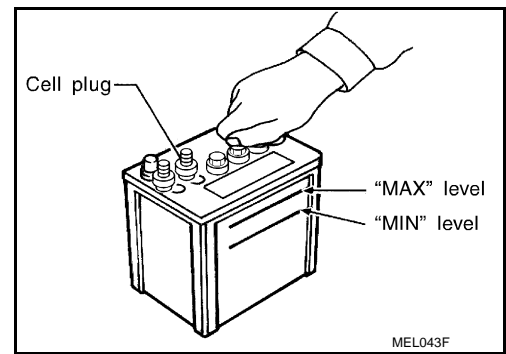
Failure to do this may cause personal injury or damage to clothing or the painted surfaces.

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12V BATTERY INSPECTION

< BASIC INSPECTION >

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

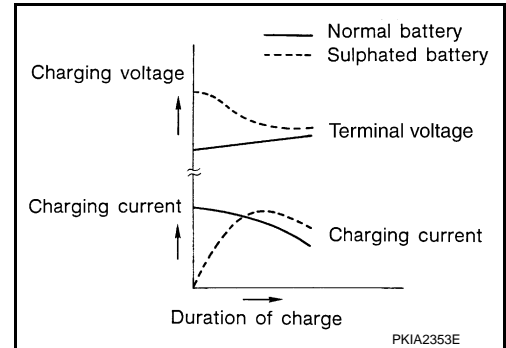


Sulphation

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.

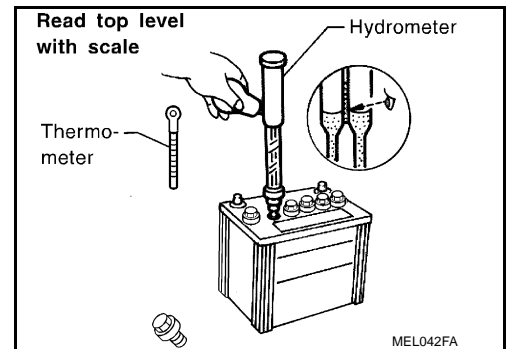
To determine if a 12V battery has been “sulphated”, note its voltage and current when charging it. As shown in the figure, less current and higher voltage are observed in the initial stage of charging sulphated batteries.

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 12V battery capacity test.



SPECIFIC GRAVITY CHECK

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
4 (40)	-0.016
-1 (30)	-0.020
-7 (20)	-0.024

12V BATTERY INSPECTION

< BASIC INSPECTION >

12V battery electrolyte temperature [°C (°F)]	Add to specific gravity reading
-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 12V 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.

Work Flow

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TROUBLE DIAGNOSIS WITH MULTITASKING BATTERY DIAGNOSTIC STATION

Refer to diagnostic station instruction manual.

FUSE INSPECTION

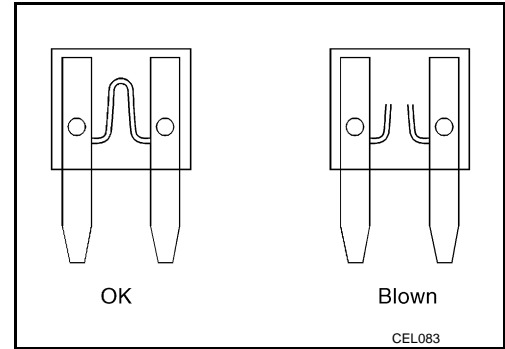
< BASIC INSPECTION >

FUSE INSPECTION

How To Check

INFOID:000000006968303

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



FUSIBLE LINK INSPECTION

< BASIC INSPECTION >

FUSIBLE LINK INSPECTION

How To Check

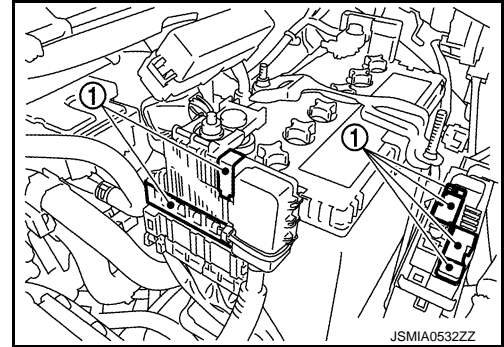
INFOID:000000006968304

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

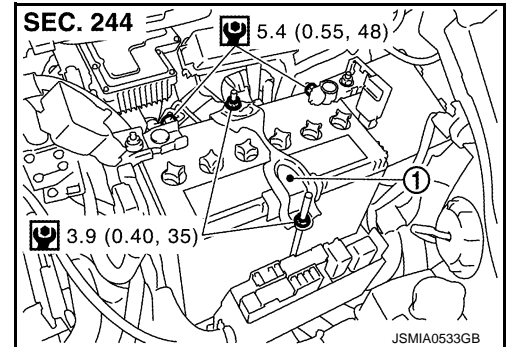
12V BATTERY

Exploded View

INFOID:000000006968305

1 : Battery fix frame

 :N·m (kg·m, in·lb)



Removal and Installation

INFOID:000000006968306

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-67, "ADDITIONAL SERVICE WHEN REMOVING BATTERY NEGATIVE TERMINAL : Required Procedure After Battery Disconnection"](#).


BATTERY TERMINAL WITH FUSIBLE LINK

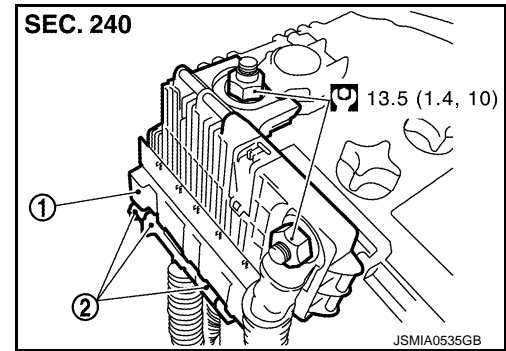
< REMOVAL AND INSTALLATION >

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View

INFOID:000000006968307

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



Removal and Installation

INFOID:000000006968308

REMOVAL

1. Disconnect the 12V battery cable from the negative terminal. Refer to [PG-108, "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-108, "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.

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C
D
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BATTERY CURRENT SENSOR

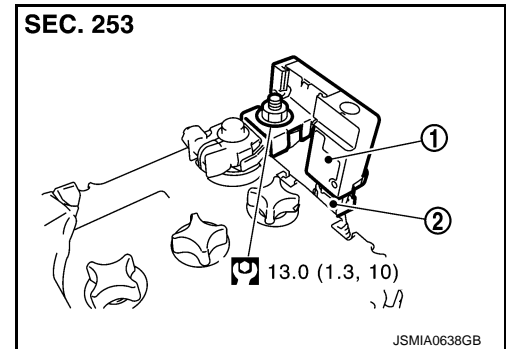
< REMOVAL AND INSTALLATION >

BATTERY CURRENT SENSOR

Exploded View

INFOID:000000006968309

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



Removal and Installation

INFOID:000000006968310

REMOVAL

1. Disconnect the 12V battery cable from the negative terminal. Refer to [PG-108, "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.

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

12V Battery

INFOID:0000000006968313

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

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