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POWER SUPPLY, GROUND & CIRCUIT ELEMENTS

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PRECAUTIONS

< PRECAUTION >

PRECAUTION

PRECAUTIONS

Precaution for Technicians Using Medical Electric

INFOID:0000000010641279

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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 PDM (Power Delivery Module) at normal charge operation may affect medical electric devices, a technician using a medical electric device such as implantable cardiac pacemaker or an implantable cardioverter defibrillator must not approach motor room [PDM (Power Delivery Module)] at the hood-opened condition during normal charge operation.

PRECAUTION AT TELEMATICS SYSTEM OPERATION

- 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

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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INFOID:0000000010641280

WARNING:

 Because 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 han-

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PRECAUTIONS

< PRECAUTION >

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

- 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.
- To prevent the removed service plug from being connected by mistake during the procedure, always carry it in your pocket or put it in the tool box.
- Be sure to wear insulating protective equipment before beginning work on the high voltage system.
- Clearly identify the persons responsible for high voltage work and ensure that other persons do not touch the vehicle. When not working, cover high voltage parts with an insulating cover sheet or similar item to prevent other persons from contacting them.

CAUTION:

There is the possibility of a malfunction occurring if the vehicle is changed to READY status while the service plug is removed. Therefore do not change the vehicle to READY status unless instructed to do so in the Service Manual.

HIGH VOLTAGE HARNESS AND EQUIPMENT IDENTIFICATION

The colors of the high voltage harnesses and connectors are all orange. Orange "High Voltage" labels are applied to the Li-ion battery and other high voltage devices. Do not carelessly touch these harnesses and 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

Because this vehicle uses components that contain high voltage and powerful magnetism, due not carry any metal products which may cause short circuits, or any magnetic media (cash cards, prepaid cards, etc.) which may be damaged on your person when working.

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

	Person in charge:	
	IOT TOUCH!	א סמ
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3316	4 VOLTAGE	_
	GER:	
	CED'	
DANG	ER:	
HIGH '	VOLTAGE	
REPAI	R IN PROGRI	ESS.
DO NO	OT TOUCH!	
	Person in charge:	

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

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 SR and SB section of this Service Manual.

WARNING:

- To avoid rendering the SRS inoperative, which could increase the risk of personal injury or death in the event of a collision which would result in air bag inflation, all maintenance must be performed by an authorized NISSAN/INFINITI dealer.
- Improper maintenance, including incorrect removal and installation of the SRS, can lead to personal
 injury caused by unintentional activation of the system. For removal of Spiral Cable and Air Bag
 Module, see the SR section.
- Do not use electrical test equipment on any circuit related to the SRS unless instructed to in this Service Manual. SRS wiring harnesses can be identified by yellow and/or orange harnesses or harness connectors.

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

WARNING:

- When working near the Airbag Diagnosis Sensor Unit or other Airbag System sensors with the Ignition ON or engine running, DO NOT use air or electric power tools or strike near the sensor(s) with a hammer. Heavy vibration could activate the sensor(s) and deploy the air bag(s), possibly causing serious injury.
- When using air or electric power tools or hammers, always switch the Ignition OFF, disconnect the battery and wait at least three minutes before performing any service.

Precaution for Removing 12V Battery

INFOID:0000000010641283

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 o ON o 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.

Remove 12V battery within 1 hour after turning the power switch OFF → ON → OFF.

NOTE

- The 12V battery automatic charge control may start automatically even when the power switch is in OFF state.
- Once the power switch is turned ON → OFF, the 12V battery automatic charge control does not start for approximately 1 hour.

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.

Precaution for Power Generation Voltage Variable Control System

INFOID:0000000011007780

CAUTION:

For this model, the battery current sensor that is installed to the battery cable at the negative terminal measures the charging/discharging current of the battery, and performs various controls. If the electrical component or the ground wire is connected directly to the battery terminal, the current other than that being measured with the battery current sensor is charging to or discharging from the battery. This condition causes the malfunction of the control, and then the battery discharge may occur. Do not connect the electrical component or the ground wire directly to the battery terminal.

PREPARATION

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PREPARATION

PREPARATION

Special Service Tools

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The actual shape of the tools may differ from those illustrated here.	

rooi number	Description
(TechMate No.)	
Tool name	

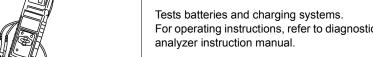
(165-GR8-1200KIT-NI) Nissan battery and electronics tester Tests batteries, starting and charging systems and charges batteries.

AWIIA1239ZZ

JSMIA0806ZZ

For operating instructions, refer to diagnostic station instruction manual.

(165-EXP-800-NI) Midtronic hand-held battery tester



For operating instructions, refer to diagnostic

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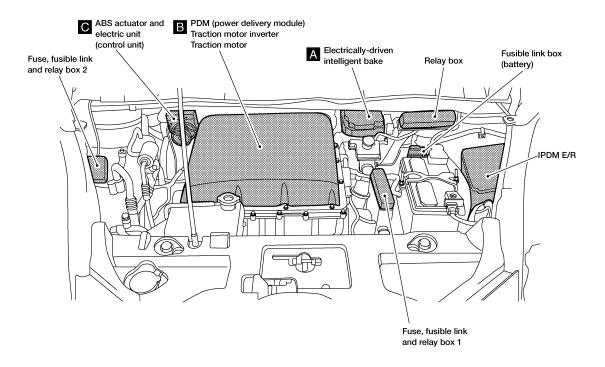
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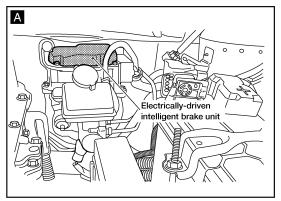
SYSTEM DESCRIPTION

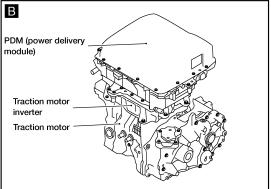
ELECTRICAL UNITS LOCATION

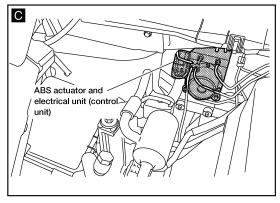
Electrical Units Location

ENGINE COMPARTMENT









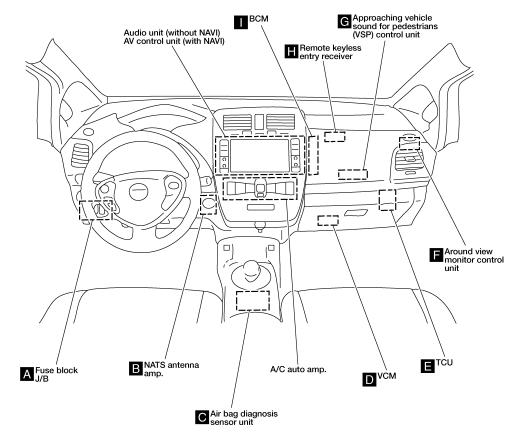
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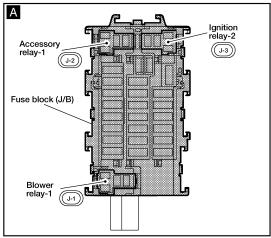
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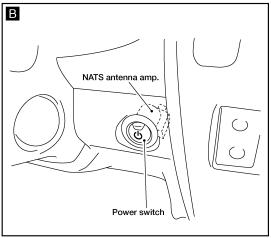
ELECTRICAL UNITS LOCATION

< SYSTEM DESCRIPTION >

PASSENGER COMPARTMENT







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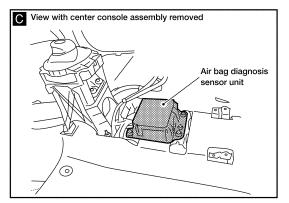
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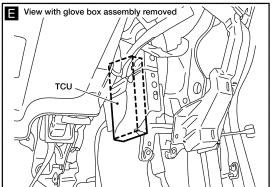
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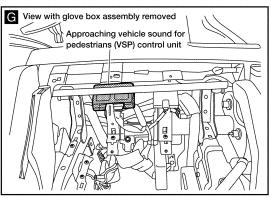
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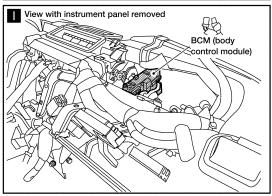
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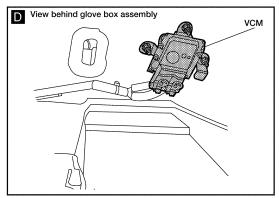
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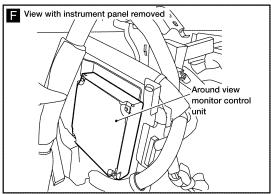


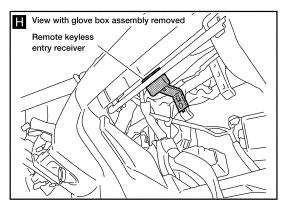










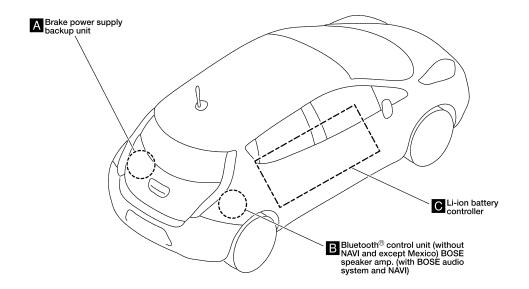


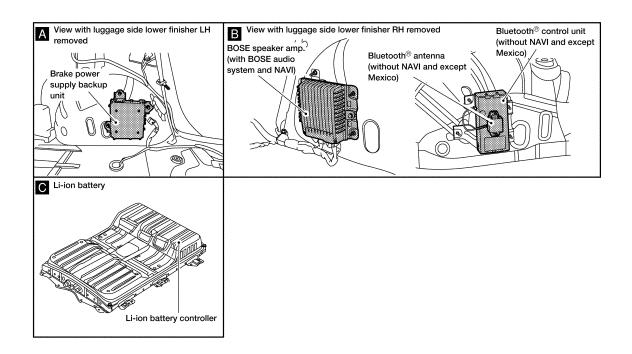
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ELECTRICAL UNITS LOCATION

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LUGGAGE COMPARTMENT





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COMPONENT PARTS

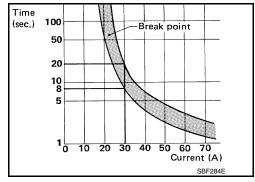
Circuit Breaker (Built Into BCM)

INFOID:0000000011103092

For example, when current is 30A, the circuit is broken within 8 to 20 seconds.

This circuit breaker is used for the following systems:

· Power windows



Harness Connector

INFOID:0000000011107795

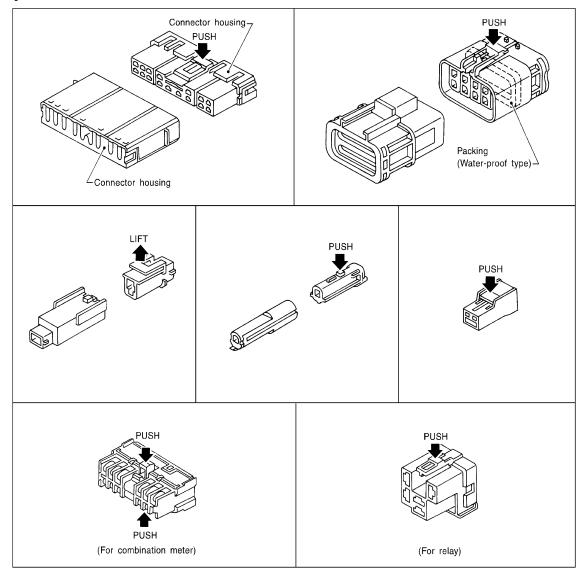
HARNESS CONNECTOR (TAB-LOCKING TYPE)

- 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.

Refer to the next page for description of the slide-locking type connector. **CAUTION**:

Do not pull the harness or wires when disconnecting the connector.

[Example]



SEL769DA

HARNESS CONNECTOR (SLIDE-LOCKING TYPE)

- A new style slide-locking type connector is used on certain systems and components, especially those related to OBD.
- The slide-locking type connectors help prevent incomplete locking and accidental looseness or disconnection.
- The slide-locking type connectors are disconnected by pushing or pulling the slider. Refer to the figure below.

CAUTION:

- Do not pull the harness or wires when disconnecting the connector.
- Be careful not to damage the connector support bracket when disconnecting the connector.

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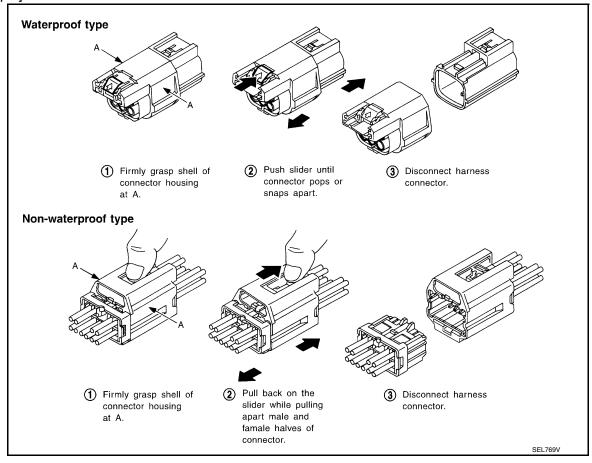
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[Example]



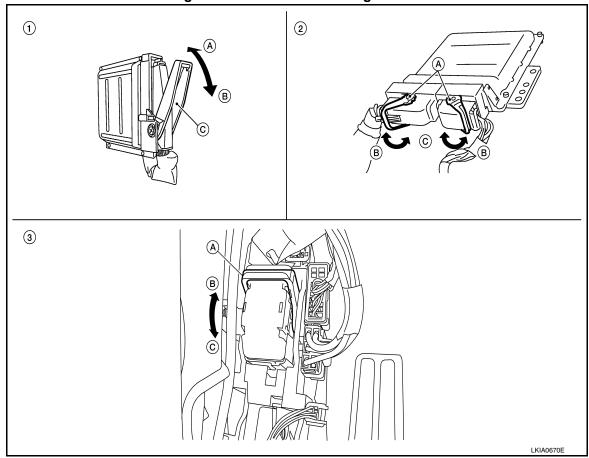
HARNESS CONNECTOR (LEVER LOCKING TYPE)

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

CAUTION:

< 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.



- Control unit with single lever
 - A. Fasten
 - B. Loosen
 - C. Lever

- 2. Control unit with dual lever
 - A. Lever
 - B. Fasten
 - C. Loosen

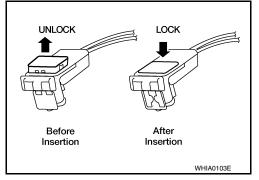
- SMJ connector
 - A. Lever
 - B. Fasten
 - C. Loosen

HARNESS CONNECTOR (DIRECT-CONNECT SRS COMPONENT TYPE)

- SRS direct-connect type harness connectors are used on certain SRS components such as air bag modules and seat belt pre-tensioners.
- Always pull up to release black locking tab prior to removing connector from SRS components.
- Always push down to lock black locking tab after installing connector to SRS components. When locked, the black locking tab is level with the connector housing.

CAUTION:

 Do not pull the harness or wires when removing connectors from SRS components.



Standardized Relay

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NORMAL OPEN, NORMAL CLOSED AND MIXED TYPE RELAYS

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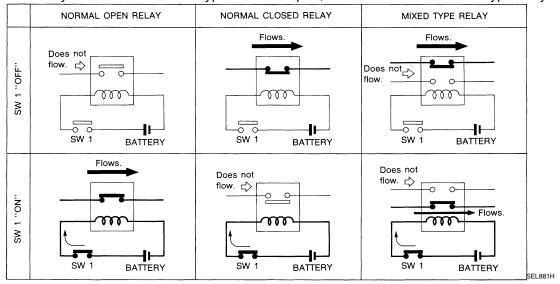
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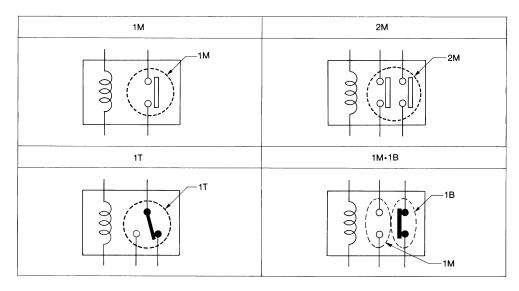
< SYSTEM DESCRIPTION >

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



TYPE OF STANDARDIZED RELAYS

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



SEL882H

Туре	Outer view	Circuit	Connector symbol and connection	Case color
1Т	5 2 4	9 3	5 2 4 1	BLACK
2М		1 6 3 2 7 5	2 1 7 5 6 3	BROWN
1M•1B		① ⑥ ③	2 1 6 7 3	GRAY
1M	3 3 9	① ⑤ · · · · · · · · · · · · · · · · · ·	00 5 2 1 3 5 2 1	BLUE

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

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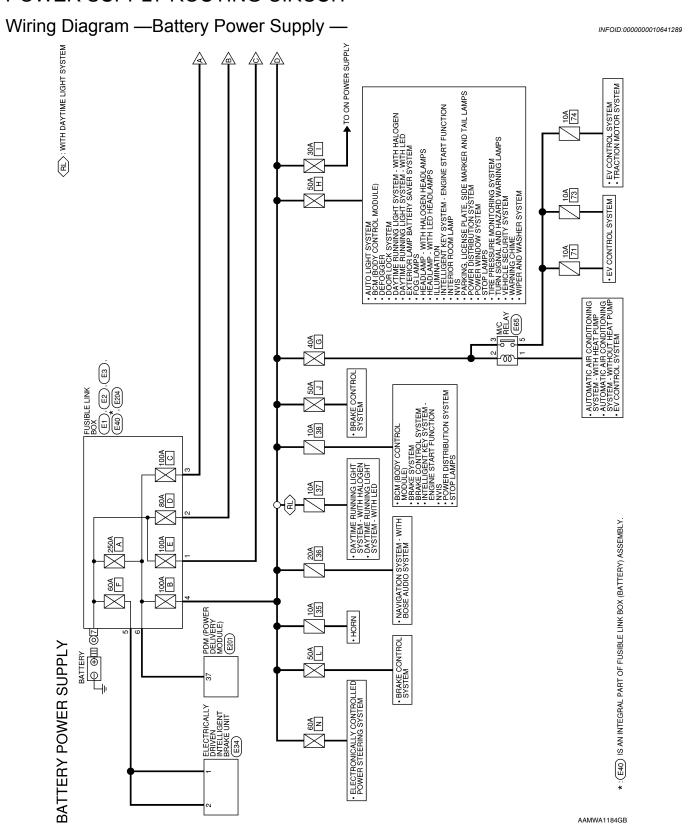
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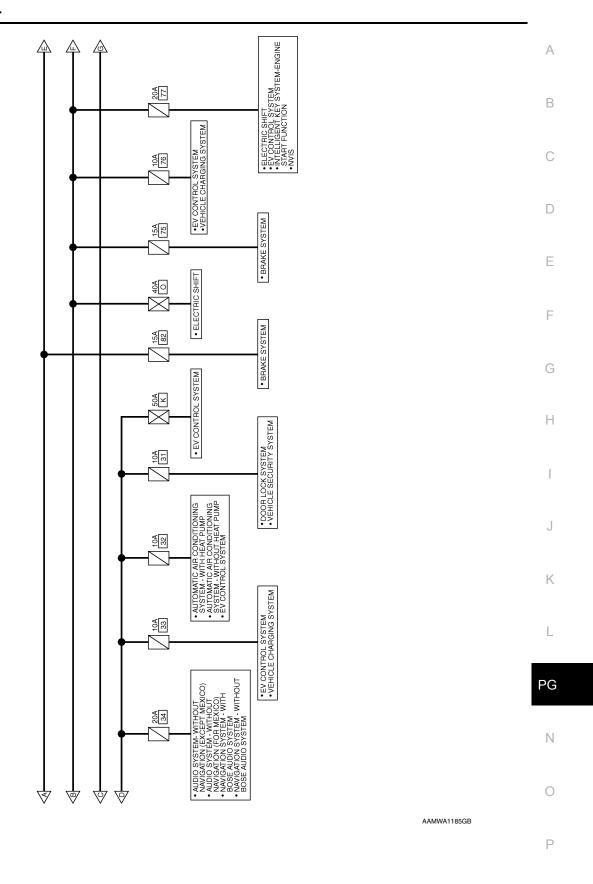
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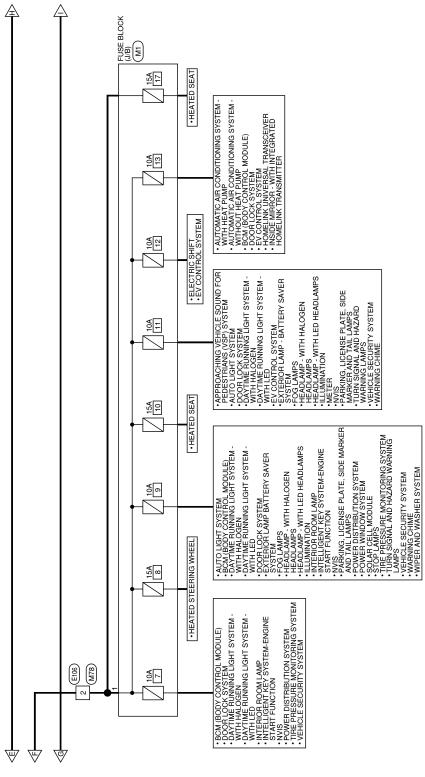
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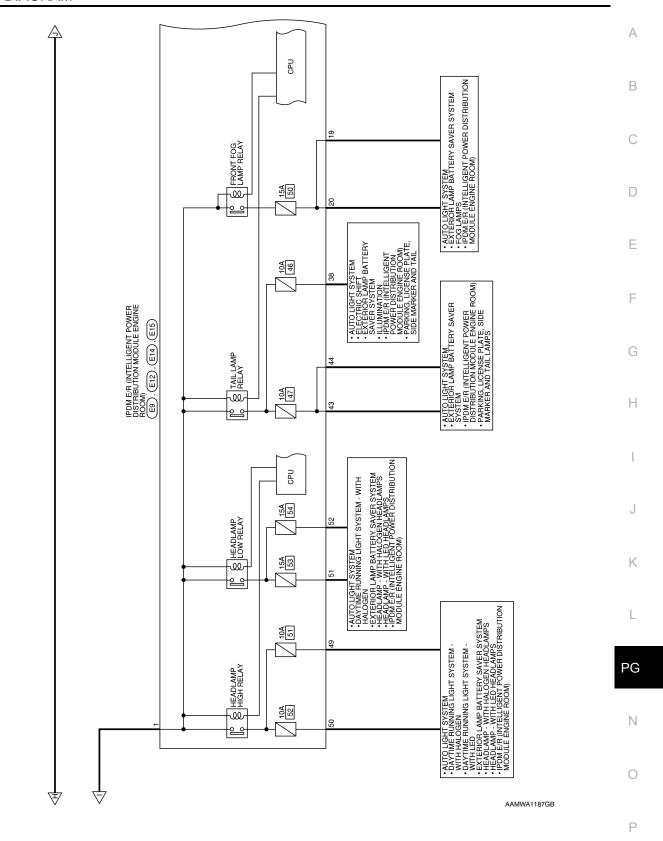
WIRING DIAGRAM

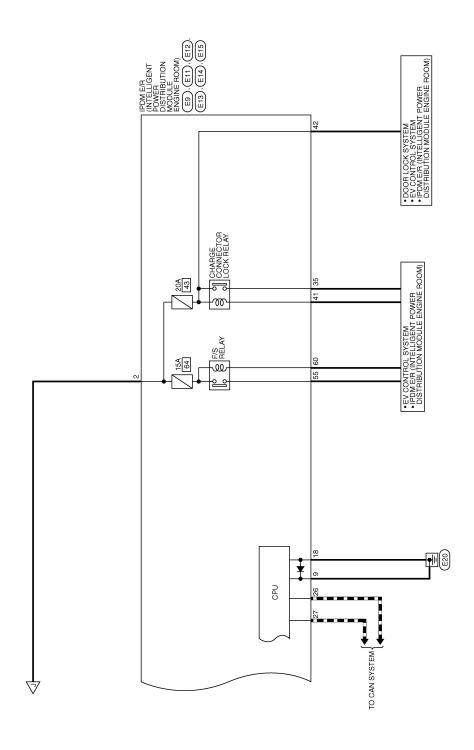
POWER SUPPLY ROUTING CIRCUIT











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Connector No. E1
Connector Name FUSIBLE LINK BOX
(BATTERY)

Connector Color GRAY

Signal Name

Color of Wire

Terminal No.

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BATTERY POWER SUPPLY CONNECTORS

8	Connector Name WIRE TO WIRE	4CK	□ 2 - 1	Signal Name	ı
M	me WIF	lor BL/		Color of Wire	8
Connector No. M78	Connector Na	Connector Color BLACK	H.S.	Terminal No. Wire	2
	Connector Name FUSE BLOCK (J/B)	TE T	[-]	Signal Name	I
M	ne FUS	or WHI		Color of Wire	×
Connector No. M1	Connector Nar	Connector Color WHITE	原列 H.S.	Terminal No. Wire	F

onnector No.	E2	Connector No. E3	E3	O	Connector No. E9	E9	
onnector Name	nnector Name FUSIBLE LINK BOX (BATTERY)	Connector Name	Connector Name FUSIBLE LINK BOX (BATTERY)	Ō	onnector Name	Connector Name POWER DISTRIBUTION	
onnector Color BROWN	BROWN	Connector Color BI ACK	BLACK			MODULE ENGINE ROOM)	

Connector No.	E2	Connector No.	E3		Connector No.	lo. E9	
nector Name	Connector Name FUSIBLE LINK BOX (BATTERY)	Connector Na	me FUSIE (BAT	Connector Name FUSIBLE LINK BOX (BATTERY)	Connector N	lame POV	Connector Name POWER DISTRIBUTION
Connector Color BROWN	BROWN	Connector Color BLACK	lor BLAC	×		MO	JULE ENGINE ROOM)
					Connector Color BLACK	olor BLA	, S
E I		· · · · · · · · · · · · · · · · · · ·		2			
5	7				H.S.		- 2
Terminal No. Wire	or of Signal Name	Terminal No. Color of Wire	Color of Wire	Signal Name	Terminal No. Wire	Color of Wire	Signal Name
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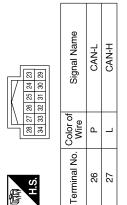
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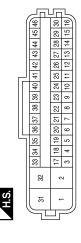
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Signal Name	MOTOR POWER	MOTOR POWER
Color of Wire	>	Υ
Terminal No.	-	2

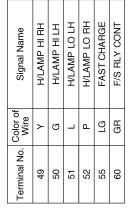
	Connector No. E12	E12 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector No. Connector Name
	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	BROWN	Connector Color
Connector Color BROWN		IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Name



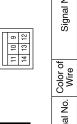


Connector No.	E15
Connector Name	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)
Connector Color WHITE	WHITE





E11	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	BLACK	
Connector No.	Connector Name	Connector Color BLACK	



Signal Name	POWER GROUND	
Color of Wire	В	
Terminal No.	6	

Connector No. E14 Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color BROWN





Signal Name	VCM VB	TAIL 1 (WITHOUT SOLAR CELL)	TAIL 1 (WITH SOLAR CELL)	VCM RLY CONT	VCM BAT	CLEARANCE/L LH	TAIL 2
Color of Wire	Œ	ΓG	Œ	SB	BR	0	В
Terminal No.	35	38	38	41	42	43	44

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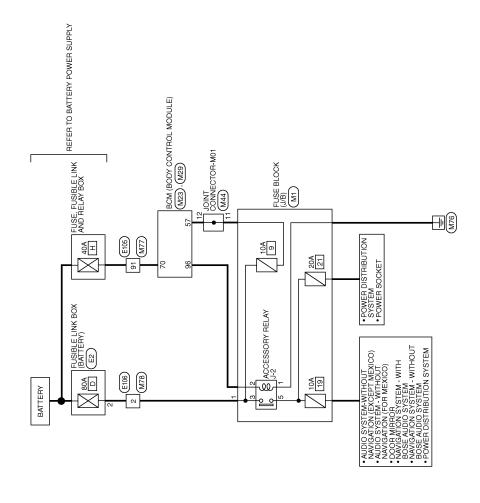
< WIRING DIAGRAM >

	me FUS	SIBLE LINK BOX	Connector Name M/C RELAY	me M/C F	RELAY	Connector Na	me WIRE	Connector Name WIRE TO WIRE
onnector Colc	(BA	(BATTERY)	Gonnector Golor	lor BIUF		Connector Color	lor BI ACK	×
<u>6</u>	lor –			_				
		<u>-</u>	原 H.S.			E.S.	<u></u>	
Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name	Terminal No.	Color of Wire	Signal Name
7		ı	-	SB	1	2	>	ı
			2	Œ	ı			
			6	Œ	1			
			rO	8	ı			
Connector No. Connector Name Connector Color		E201 PDM (POWER DELIVERY MODULE) ON BOARD CHARGER						
和 H.S.								
Terminal No. 0	Color of Wire B/R	Signal Name						
		Р						

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Wiring Diagram —Accessory Power Supply —

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ACCESSORY POWER SUPPLY

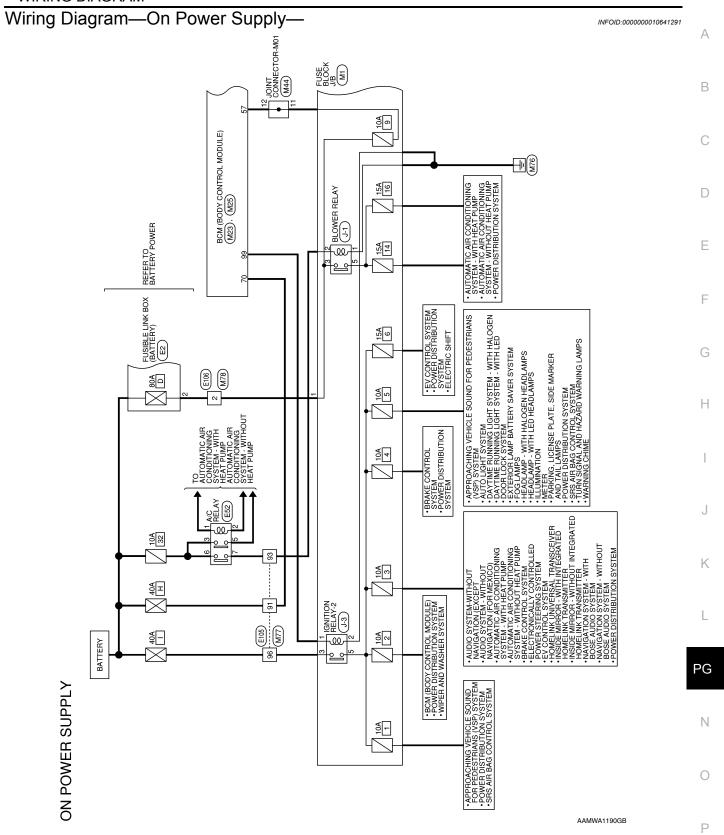
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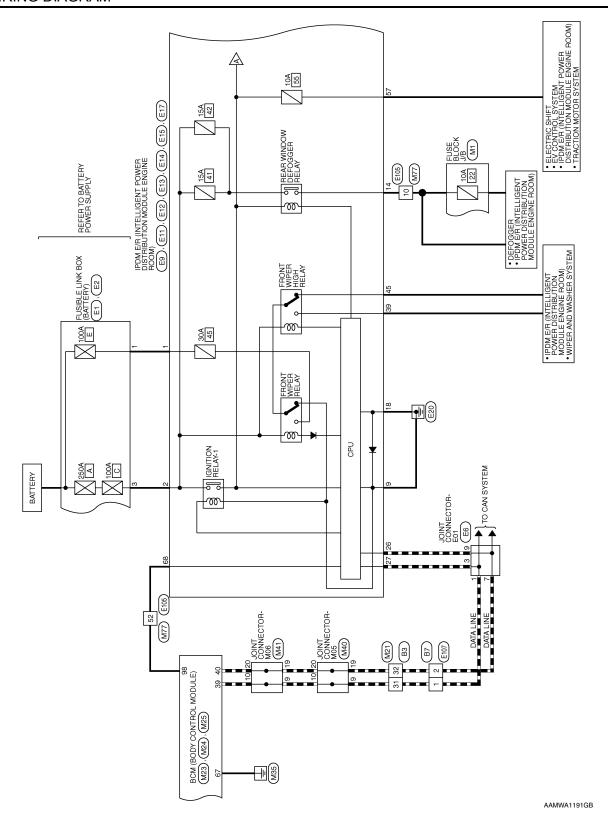
Connector No. M25 Connector Name BCM (BODY CONTROL MODULE) Connector Color WHITE SET SE SE SE SE SE SE SE	Terminal No. Color of Wire Signal Name 57 P BATTERY (FUSE) 70 Y BATTERY (F/L)	Connector No. M78 Connector Name WIRE TO WIRE Connector Color BLACK H.S. Eminal No. Color of Signal Name 2 WIRE TO WIRE 2 W -	1
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(Δ/B)	Signal Name -	M44 Connector No. M44 Connector Name JOINT CONNECTOR-M01 Connector Color GRAY	
M1 FUSE BLOGI WHITE		M44 JOINT CONNEC GRAY or of Ire	Р
No. Mame FU.	o. Wire W	No. M44 Name JOINT C Color GRAY C Color of P P P P	
Connector No. M1 Connector Name FUSE BLOCK (J/B) Connector Color WHITE H.S.	Terminal No.	Connector No. Connector Name Connector Color Terminal No. Vol 11 12	
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Revision: June 2014 PG-27 2015 Leaf NAM

	-			
Connector No.	o. E2	Q	Connector No. E105	Connector No. E106
Connector Na	ame Fl	Connector Name FUSIBLE LINK BOX	Connector Name WIRE TO WIRE	Connector Name WIRE TO WIRE
	<u>=</u>)	SATTERY)	Connector Color WHITE	Connector Color BLACK
Connector Color	olor Bi	BROWN		
S H			原 H.S.	H.S.
		7	20 40 60 80 11 21 31 41 51 61 71 81	
Terminal No. Wire	Color	of Signal Name		Terminal No. Color of Signal Name
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			17 27 37 47 57 67	
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Connector Name BCM (BODY CONTROL MODULE) WHITE

Connector Color

Connector No. M23

ON POWER SUPPLY CONNECTORS



Connector Name WIRE TO WIRE Connector Color WHITE

Connector No. M21







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	7	9		Terminal No. Wire			

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Color of Wire	٦	Ь	
Terminal No.	31	32	

Signal Name	ı	
Color of Wire	8	
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Name JOINT CONNECTOR-M05	-	잌	Ξ	0	δ	Ξ	잂	12	œ̈́	MO	5
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Connector No.	Connector Name	Connector Color	
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Signal Name	ı	_	ı	I
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Terminal No. Wire	6	10	19	20

Connector Name	Connector Name BCM (BODY CONTRO) MODULE)	TRO
Connector Color WHITE	WHITE	
	56 57 58 59 60 61 62 63 64	_
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Connector No.

Connector Name BCM (BODY CONTROL MODULE)

M24

Connector No.



Signal Name	BATTERY (FUSE)	GND	BATTERY (F/L)
Color of Wire	Ь	В	>
Terminal No.	22	29	70

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Signal Name	CAN-H	CAN-L	
Color of Wire	_	Ь	
Terminal No.	33	40	

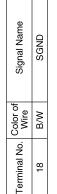
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E TO WIRE	88 88 82 52 51 51 51 51 51 51 51 51 51 51 51 51 51	88 78 68 68 68 68 69 69 07 07 08	Signa	1 1	ı	1 1		FUSIBLE LINK BOX (BATTERY)	BROWN		Signal Name	1	I		Н
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Connector No. M77 Connector Name WIRE TO WIRE Connector Color WHITE	ν <u>΄</u>		No.	10	91	96 96	N rotocaco.	Connector Name	Connector Color	H.S.	Terminal No.	-	0		J
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VECTOR-M06	₽	1 1 1 1						FUSIBLE LINK BOX (BATTERY)			Signal Name	_			L
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Connector No. M41 Connector Name JOINT CONNECTOR-Connector Color BLUE	Color of Wire						<u></u>	Je	Color GRAY		Color of Wire	<u>o</u>			N
Connector No. Connector Name Connector Color	∨ ?	10 10 20					oly votor	Connector Name	Connector Color	原 H.S.	Terminal No.	ဇ			0
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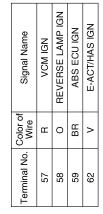
Revision: June 2014 PG-33 2015 Leaf NAM

Connector No. E12 IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM) Connector Color BROWN
E MC F
No. Name
Connector No. E12 PDA Connector Name POV MOI







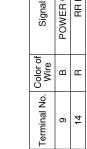


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Color of Wire	В	В	
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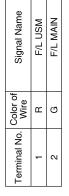
Connector No. E14	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM	Connector Color BROWN
	IPDM E/R (INTELLIGENT POWER DISTRIBUTION MODULE ENGINE ROOM)	





	Connector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	4CK
Connector No. E9	Connector Name PO MC	Connector Color BLACK





No. E13	Sonnector Name POWER DISTRIBUTION MODULE ENGINE ROOM)	Connector Color WHITE	
Connector No.	Sonnector I	Connector (





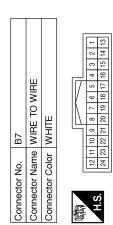
Signal Name	CAN-L	CAN-H
Color of Wire	۵	٦
Terminal No.	56	27

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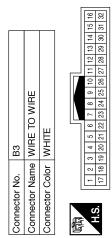
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Revision: June 2014 PG-35 2015 Leaf NAM



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Color of Wire	٦	۵	
Terminal No.	1	2	



Signal Name	1	ı
Color of Wire	٦	Ь
Terminal No.	31	32

Connector No.	١.	ш	E107	_									
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Connector Color WHITE	힏	>	ĮΞ	믵	l								
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Signal Name	ı	1
Color of Wire	Τ	Ь
Terminal No.	Į.	2

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GROUND

Ground Distribution

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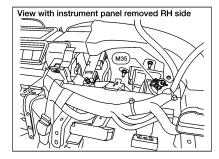
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MAIN HARNESS



CONNECTOR CONNECT NUMBER то (M32) Around view monitor control unit (Terminal No. 1) (M60) M114 Front door RH Power transistor -M10 D102 harness ∭M35) (D104) Power window and lock/unlock switch RH (D105) Door mirror RH Body ground (D115) Front outside handle RH (request switch) Body harness (M23) BCM (Body control module) shield (B82) Inside key antenna (luggage room) shield (M51) Multifunction switch Joint connec (M55) A/C Auto amp. (Terminal No. 10) tor-M01 (M67) TCU (Terminal No. 2) M44 M102 Heat pump Control unit (Terminal No. 16) (M25) BCM (Body control module) (Terminal No. 67)

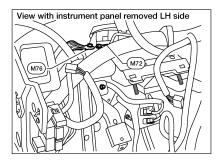
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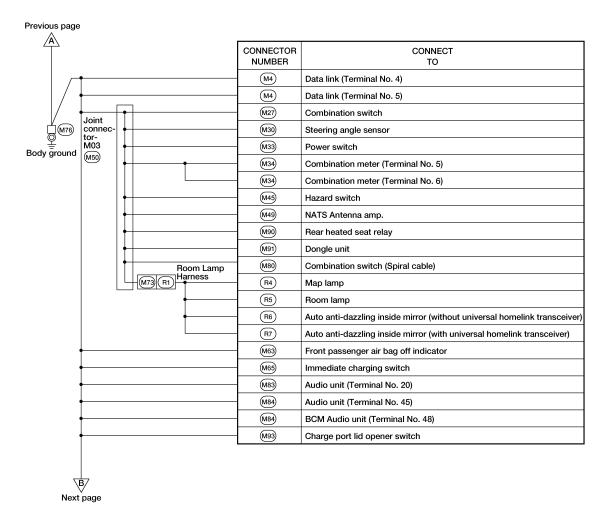
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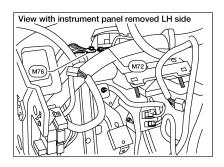
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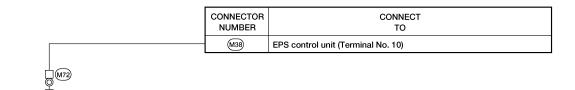


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Body ground

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Joint connector-M04	CONNECTOR NUMBER	CONNECT TO					
(M43)	M6)	Heated steering wheel shield (Terminal No. 2)					
	M6)	Heated steering wheel shield (Terminal No. 6)					
	M28	VDC off switch					
	M31)	Approaching vehicle sound for pedestrians (VSP) off switch					
	M47)	Approaching vehicle sound for pedestrians (VSP) Control unit (Terminal No. 1)					
	M57	Electric shift sensor shield					
	M67)	TCU shield					
Front door LH	M94)	Charge connector lock switch					
M11) D22 Harness	D4)	Door mirror LH					
 	D5	Door mirror remote switch					
 	D15	Front outside handle LH (request switch)					
 	D35	Main power window and door lock/unlock switch					
	D38	Front door lock assembly LH					
+	J-1	Blower relay					
+	J-2	Accessory relay					
	J-3	Ignition relay 2					



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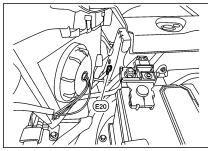
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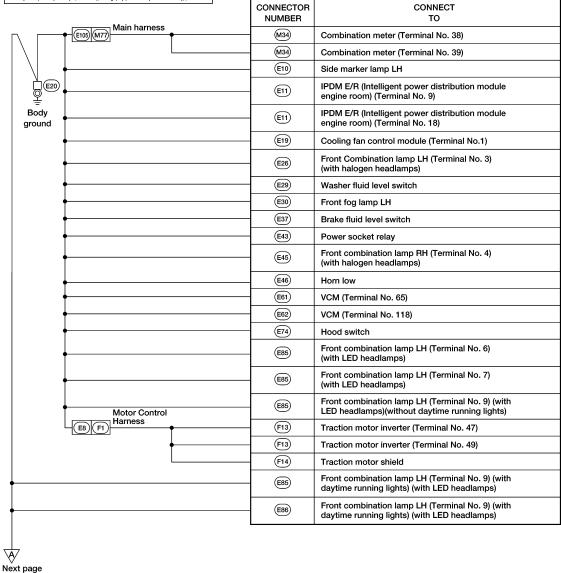
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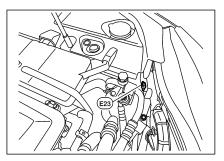
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MOTOR ROOM HARNESS





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	CONNECTOR NUMBER	CONNECT TO
•	E16	Front side marker lamp RH
<u> </u>	E18	Cooling fan relay
(E23)	E26)	Front combination lamp LH (Terminal No. 4) (with halogen headlamps)
	E29	Washer fluid level switch
Joint connector-(F58)	E32	Front wiper motor
und E03 Body harness	B15	Brake power supply back up unit shield
	E31	Master cylinder pressure sensor shield
	E36)	Stroke sensor shield
	E62	VCM shield
•	E34)	Electronically driven intelligent brake unit shield
•	E35	ABS Actuator and electronic unit (Control unit) shield
•	E38	Charge port lid opener actuator
	E45)	Front combination lamp RH (Terminal No. 3) (with halogen headlamps)
	E48	Fog lamp RH
•	E59	Vehicle security horn
•	E61)	VCM (Terminal No. 58)
•	E62	VCM (Terminal No. 126)
•	E67	Electric water pump
•	E76	Daytime relay 2
•	E77)	Daytime relay 1
•	E84)	Daytime running light relay
	E86)	Front combination lamp RH (Terminal No. 6) (with LED headlamps)(without daytime running lights)
	E86)	Front combination lamp RH (Terminal No. 9) (with LED headlamps)

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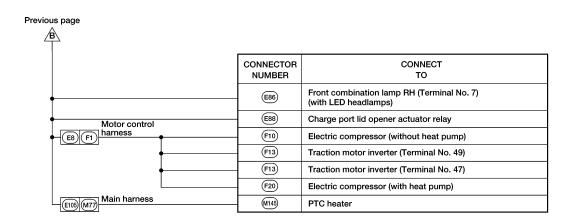
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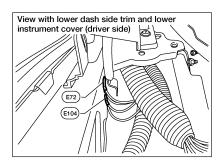
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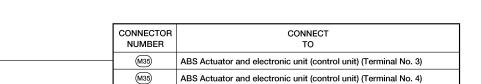
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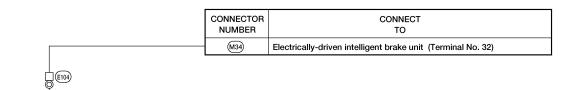


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Body ground

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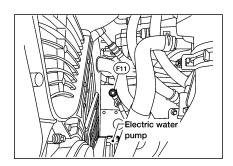
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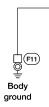
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MOTOR CONTROL HARNESS

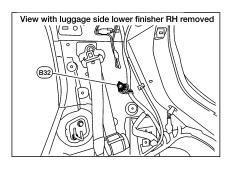






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BODY HARNESS



Joint connector-B02 (885)	CONNECTOR NUMBER	CONNECT TO		
	B24)	LI-ION battery (Terminal No. 10)		
	B24)	LI-ION battery Shield		
	(B57)	License plate lamp LH		
	B58	License plate lamp RH		
	B24)	LI-ION battery (Terminal No. 6)		
Body ground	B24)	LI-ION battery (Terminal No. 7)		
	(B24)	LI-ION battery (Terminal No. 8)		
	B24)	LI-ION battery (Terminal No. 13)		
	B24)	LI-ION battery (Terminal No. 16)		
	B59	Rear combination lamp RH		
	(B82)	Inside key antenna (luggage room) shield		
Main harness B42 M22	M15)	Tweeter LH shield		
Joint connector- Audio sub-	M100	AV Control unit shield (with navigation system with Bose)		
B03 (B31) (M14) (M52) harness	(M525)	Tweeter RH shield		
Main harness Front door	(B43)	Bose Subwoofer shield		
B40 M12 + M11 D22 LH harness	D24)	Front door speaker LH shield		
Front door	(D124)	Front door RH shield		
B17) (D201) Rear door harness LH	(D205)	Rear door speaker LH shield		
(B16) (D30) Rear door harness RH	D305)	Rear door speaker RH shield		
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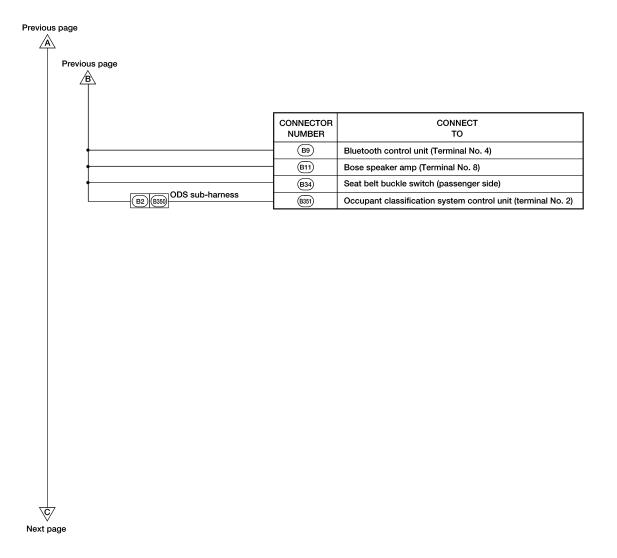
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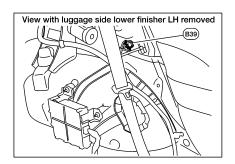
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<u>^</u>	CONNECTOR NUMBER	CONNECT TO
	B9	Bluetooth control unit (Terminal No. 24)
	B9	Bluetooth control unit (Terminal No. 27)
	B25	Front heated seat switch LH
	(B33)	Front heated seat switch RH
	CONNECTOR NUMBER	CONNECT TO
B39	B15)	Brake power supply backup unit (Terminal No. 2)
	B50	Seat belt buckle switch (driver side)
Body	B80	Rear combination lamp LH
(B21) (B251)	ont seat B252	Front seat cushion heater LH
Front seat Front seat RH harness B302 B303	l harness B306	Rear heated seat switch
	(B307)	Seat cushion heater RH
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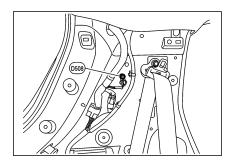
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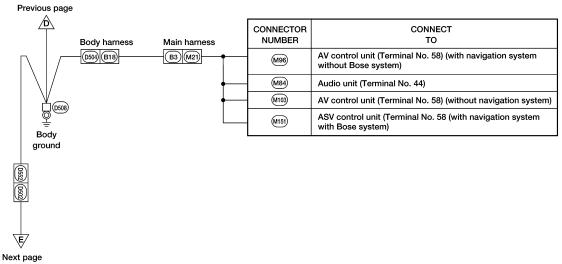
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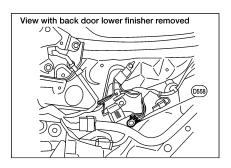
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BACK DOOR HARNESS





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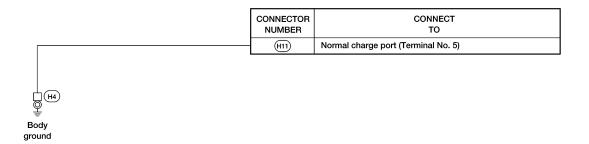
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HIGH VOLTAGE HARNESS



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Harness Layout

HOW TO READ HARNESS LAYOUT

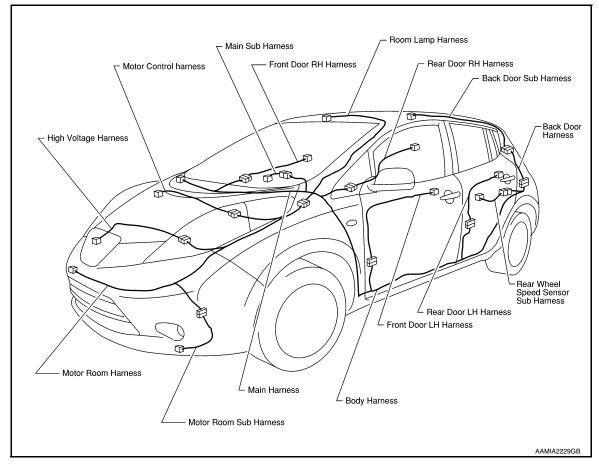
The following Harness Layouts use a map style grid to help locate connectors on the drawings:

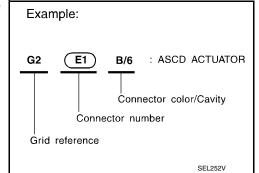
- Main Harness and Main Sub Harness
- Motor Room Harness and Motor Room Sub Harness
- Motor Room Harness (Passenger Compartment)
- Motor Control Harness
- · Body Harness and Rear Wheel Speed Sensor Sub Harness
- Room Lamp Harness
- · High Voltage Harness

To use the grid reference

- Find the desired connector number on the connector list.
- 2. Find the grid reference.
- 3. On the drawing, find the crossing of the grid reference letter column and number row.
- 4. Find the connector number in the crossing zone.
- Follow the line (if used) to the connector.

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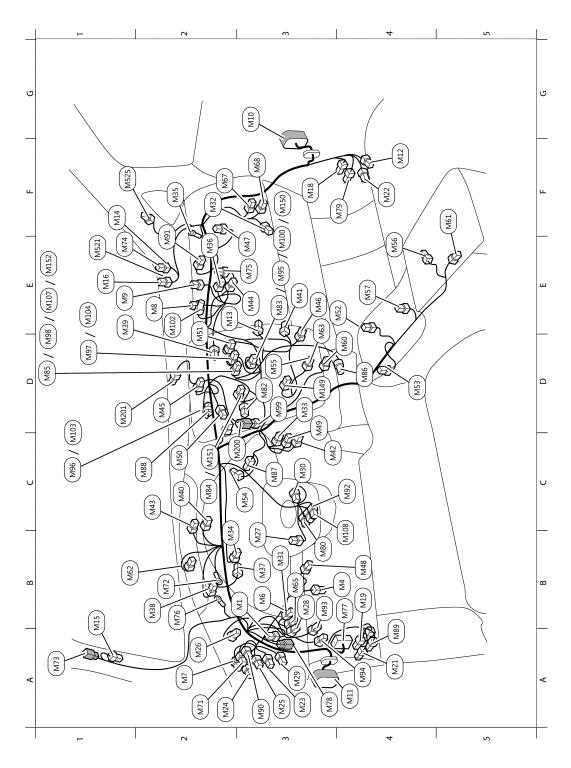
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MAIN HARNESS



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В3	M1	W/1	: Fuse block (J/B)	E4	M57	W/12	: Electric shift sensor
B4	M4	W/16	: Data link connector	D4	M60	B/3	: Power socket
В3	M6	L/8	: Heated steering wheel switch	F5	M61	Y/28	: Air bag diagnosis sensor unit
A2	M7	L/4	: Heated steering wheel relay	B2	M62	W/8	: Upper meter

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< WIRING DIAGRAM >

			VAIVI				
E2	M8	B/2	: Front passenger air bag module	E3	M63	B/5	: Front passenger air bag off indicator
E1	M9	O/2	: Front passenger air bag module	В3	M65	GR/8	: Immediate charging switch
44	M11	W/55	: To D22	F2	M67	W/40	: TCU
F4	M12	W/8	: To B40	F3	M68	GR/17	: TCU
E2	M13	BR/2	: Warning buzzer	A2	M71	L/4	: Heated seat relay
F2	M14	BR/2	: To M505	B2	M72	_	: Body ground
A1	M15	BR/2	: Tweeter LH	A1	M73	W/16	: To R1
E1	M16	W/3	: Optical sensor	F1	M74	W/2	: Sunload sensor
F3	M18	W/16	: To B1	E3	M75	W/4	: Remote keyless entry receiver
B4	M19	W/16	: To B2	B2	M76	_	: Body ground
A4	M21	W/32	: To B3	B4	M77	SMJ	: To E105
F4	M22	W/24	: To B42	А3	M78	B/2	: To E106
А3	M23	W/40	: BCM (Body control module)	F4	M79	W/32	: To B4
A2	M24	B/40	: BCM (Body control module)	В3	M80	W/2	: Combination switch
А3	M25	W/15	: BCM (Body control module)	D3	M82	W/4	: To M143
A2	M26	W/12	: Meter control switch	E3	M83	W/20	: Audio unit
ВЗ	M27	W/16	: Combination switch	C1	M84	W/32	: Audio unit
ВЗ	M28	B/8	: VDC off switch	D1	M85	L/5	: Audio unit
А3	M29	B/15	: BCM (Body control module)	D4	M86	L/2	: Inside key antenna (Instrument center)
СЗ	M30	W/8	: Steering angle sensor	C3	M87	W/24	: To M140
В3	M31	W/8	: Approaching vehicle sound for pedestrians (VSP) off switch	C2	M88	W/2	: Diode-3
E3	M32	W/40	: Around view monitor control unit	A4	M89	W/2	: To B6
D3	M33	W/8	: Power switch	А3	M90	L/4	: Rear heated seat relay
B2	M34	W/40	: Combination meter	E2	M91	W/4	: Dongle unit
F2	M35	_	: Body ground	C4	M92	GR/8	: Combination switch (Spiral cable)
E2	M36	GR/20	: Joint connector-M02	В3	M93	G/8	: Charge port lid opener switch
ВЗ	M37	W/8	: EPS control unit	A4	M94	GR/10	: Charge connector lock switch
B2	M38	B/2	: EPS control unit	E3	M95	W/20	: AV control unit (With navigation system without BOSE)
E1	M39	GR/2	: Blower motor	D1	M96	W/40	: AV control unit (With navigation system without BOSE)
C2	M40	L/20	: Joint connector-M05	D1	M97	GR/17	: AV control unit (With navigation system without BOSE)
E3	M41	L/20	: Joint connector-M06	D1	M98	L/5	: AV control unit (With navigation system without BOSE)
СЗ	M42	W/2	: In-vehicle sensor	D3	M99	W/4	: To M200
C2	M43	GR/20	: Joint connector-M04	E3	M100	W/20	: AV control unit (With navigation system with BOSE)
E3	M44	GR/20	: Joint connector-M01	E2	M102	W/16	: Heater pump control unit
D2	M45	W/4	: Hazard switch	D1	M103	W/40	: AV control unit (With navigation system with BOSE)
E3	M46	O/20	: Joint connector-M07	E1	M104	GR/17	: AV control unit (With navigation system with BOSE)
E3	M47	W/16	: Approaching vehicle sound for pedestrians (VSP) control unit	E1	M107	B/5	: AV control unit (With navigation system with BOSE)
B4	M48	B/2	: Start up sound speaker	F3	M150	W/20	: AV control unit (Without navigation system)

< WIRING DIAGRAM >

D3	M49	W/4	: NATS antenna amp.	C2	M151	W/40	: AV control unit (Without navigation system)
C2	M50	P/20	: Joint connector-M03	E1	M152	L/5	: AV control unit (Without navigation system)
E2	M51	W/8	: Multifunction switch	B4	M108	Y/6	: Combination switch (Spiral cable)
E4	M52	W/4	: Auxiliary input jack	Mair	sub har	ness	
D4	M53	G/5	: USB connector	C2	M200	W/4	: To M99
C2	M54	B/16	: Intake door motor	D1	M201	W/4	: Charging status indicator
D3	M55	W/40	: A/C auto amp.	E1	M521	BR/1	: To M14
E4	M56	W/8	: Selector indicator	F1	M525	BR/2	: Tweeter RH

MOTOR ROOM HARNESS

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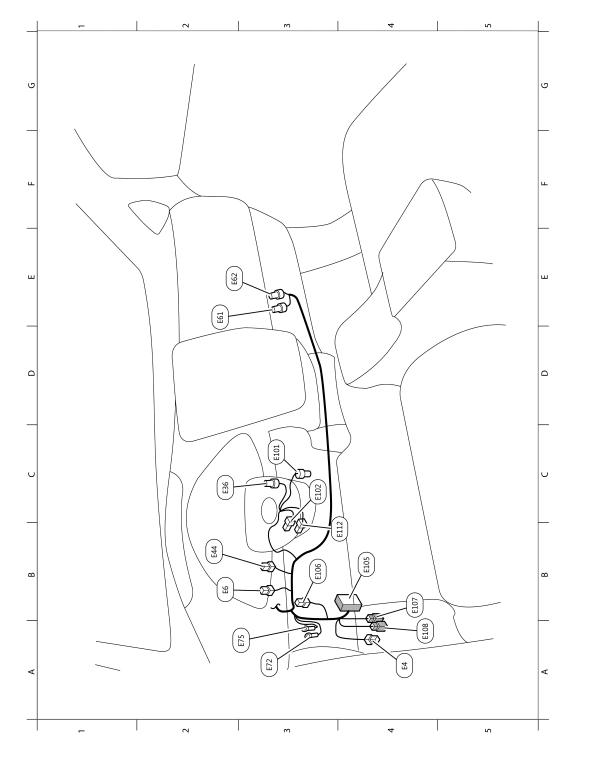
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D2	E1	GR/2	: Fusible link box (Battery)	А3	E41	GR/2	: Washer pump
E3	E2	BR/2	: Fusible link box (Battery)	F4	E42	B/2	: Approaching vehicle sound for pedestrians (VSP) speaker
E2	E3	B/1	: Battery terminal with fusible link	B1	E43	L/4	: Power socket relay
E1	E5	W/3	: Anti theft horn relay	A2	E45	GR/6	: Front combination lamp RH (With halogen headlamps)

< WIRING DIAGRAM >

	TRING			D.4	540	D/4	11
B4	E7	B/10	: Quick charge port	D4	E46	B/1	: Horn (Low)
E2	E8	B/52	: To F1	A4	E48	B/2	: Front fog lamp RH
F2	E9	B/2	: IPDM E/R (Intelligent power distribution module engine room)	E4	E49	B/3	: Refrigerant pressure sensor (With heat pump)
F1	E10	GR/2	: Front side marker lamp LH	C5	E50	B/1	: Horn (Low)
F2	E11	B/6	: IPDM E/R (Intelligent power distribution module engine room)	C1	E52	BR/6	: A/C relay
F2	E12	BR/8	: IPDM E/R (Intelligent power distribution module engine room)	C5	E53	B/2	: Ambient sensor
E3	E13	W/12	: IPDM E/R (Intelligent power distribution module engine room)	C2	E54	L/4	: Parking actuator relay
F3	E14	BR/12	: IPDM E/R (Intelligent power distribution module engine room)	В3	E57	BR/1	: Vehicle security horn
F3	E15	W/16	: IPDM E/R (Intelligent power distribution module engine room)	D3	E58	B/24	: Joint connector-E03
B1	E16	GR/2	: Front side marker lamp RH	B4	E59	B/1	: Vehicle security horn
F3	E17	B/10	: IPDM E/R (Intelligent power distribution module engine room)	E2	E60	B/12	: To F2
A1	E18	B/4	: Cooling fan relay	C1	E64	L/4	: F/S chg relay
D4	E19	GR/3	: Cooling fan control module	F1	E65	L/4	: M/C relay
E3	E20	_	: Body ground	E3	E66	B/4	: Battery current sensor
D4	E21	B/4	: To E203	C2	E67	G/4	: Electric water pump
G2	E22	B/2	: Front wheel sensor LH	В3	E69	GR/2	: Coolant temperature sensor
B2	E23	_	: Body ground	D3	E74	GR/2	: Hood switch
С3	E24	GR/2	: Charge port light	F1	E76	B/5	: Daytime light relay 2
C4	E25	B/2	: Normal charge port	B1	E77	L/4	: Daytime light relay 1
F3	E26	GR/6	: Front combination lamp LH (With halogen headlamps)	B1	E84	B/5	: Daytime running light relay
E1	E27	L/4	: Reverse lamp relay	F3	E85	B/10	: Front combination lamp LH (With LED headlamps)
A2	E28	BR/3	: Intelligent Key warning buzzer	B2	E86	B/10	: Front combination lamp RH (With LED headlamps)
ВЗ	E29	BR/2	: Washer level switch	D4	E87	GR/4	: Charging connector lock actuator
F5	E30	B/2	: Front fog lamp LH	B2	E88	L/4	: Charging port opener actuator relay
E2	E31	B/3	: Master cylinder pressure sensor	В3	E89	BR/2	: Compressor suction refrigerant temperature sensor
E1	E32	GR/5	: Front wiper motor	B2	E90	GR/2	: Refrigerant channel switching 2 way type valve
B4	E33	Y/2	: Crash zone sensor	A2	E91	B/2	: Refrigerant channel switching 3 way type valve
E2	E34	B/46	: Electrically-driven intelligent brake unit	Moto	or room s	sub harne	ess
C1	E35	B/32	: ABS actuator and electric unit (Control unit)	D5	E201	_	: PDM (Power delivery module)
C2	E37	GR/2	: Brake fluid level switch	E5	E202	B/4	: Front camera
С3	E38	B/4	: Charge port lid opener actuator	D4	E203	B/4	: To E21
B1	E39	B/2	: Front wheel sensor RH	D3	E204	_	: Fusible link box (Battery)

MOTOR ROOM HARNESS (PASSENGER COMPARTMENT)



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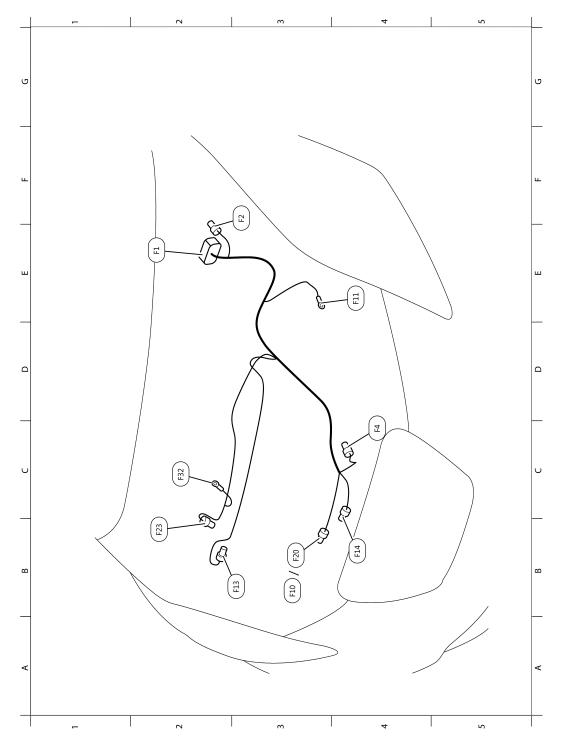
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A4	E4	B/1	: Parking brake switch	C3	E101	B/6	: Accelerator pedal position sensor
B2	E6	L/12	: Joint connector-E01	C3	E102	W/4	: Stop lamp switch
C2	E36	B/4	: Stroke sensor	B4	E105	SMJ	: To M77
B2	E44	L/12	: Joint connector-E02	В3	E106	B/2	: To M78
E2	E61	B/65	: VCM	B4	E107	W/24	: To B7

< WIRING DIAGRAM >

E2	E62	BR/65	: VCM	A4	E108	W/4	: To B8
A3	E72	_	: Body ground	B4	E112	BR/2	: Brake pedal position switch
A3	E75	_	: Body ground				

MOTOR CONTROL HARNESS



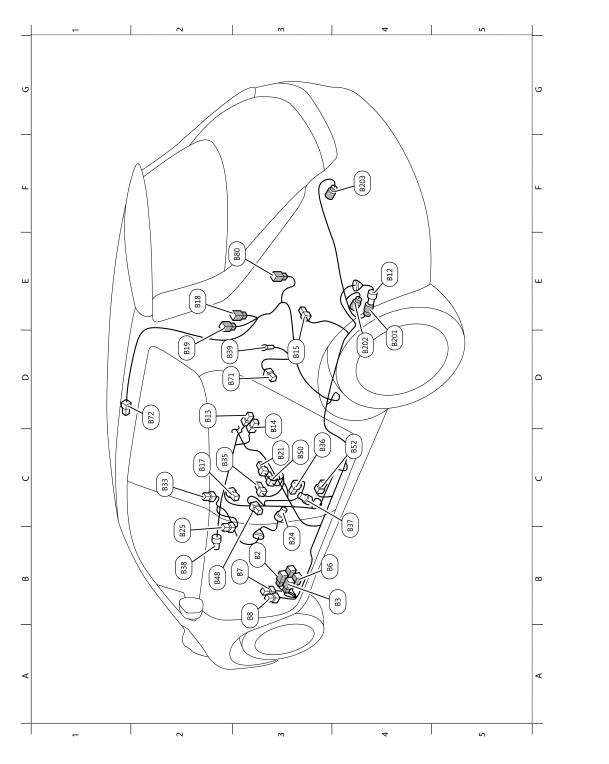
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E2	F1	B/52	: To E8	В3	F13	B/49	: Traction motor inverter
F3	F2	B/12	: To E60	B4	F14	B/8	: Traction motor

< WIRING DIAGRAM >

C4	F4	B/10	: Parking actuator	В3	F20	B/6	: Electric compressor (With heat pump)
В3	F10	W/6	: Electric compressor (Without heat pump)	B2	F23	G/36	: PDM (Power delivery module)
E4	F11	_	: Body ground	C2	F32	_	: PDM (Power delivery module)

BODY HARNESS (LH SIDE)



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В3	B2	W/16	: To M19	C2	B35	Y/2	: Front LH side air bag module
B4	B3	W/32	: To M21	C3	B36	Y/2	: Front LH seat belt pre-tensioner

< WIRING DIAGRAM >

В3	B6	W/2	: To M89	C4	B37	Y/2	: LH side air bag (Satellite) sensor
В3	B7	W/24	: To E107	B2	B38	B/6	: Yaw rate/side/decel G sensor
В3	B8	W/4	: To E108	D2	B39	_	: Body ground
E4	B12	B/10	: To B201	B2	B48	W/4	: Front door switch (Driver side)
D2	B13	Y/22	: Air bag diagnosis sensor unit	C3	B50	W/3	: Seat belt buckle switch (Driver side)
D3	B14	Y/22	: Air bag diagnosis sensor unit	C4	B52	O/2	: Lap seat belt pre-tensioner (Driver side)
D3	B15	W/6	: Brake power supply backup unit	D2	B71	W/4	: Rear door switch LH
C2	B17	W/12	: To D201	D2	B72	Y/2	: LH side front curtain air bag module
E2	B18	W/20	: To D504	E3	B80	W/6	: Rear combination lamp LH
D2	B19	W/4	: To D501	Rea	wheel s	sensor su	b harness
C3	B21	W/4	: To B251	D4	B201	B/10	: To B12
В3	B24	G/36	: Li-ion battery	D4	B202	GR/2	: Rear wheel sensor LH
B2	B25	W/6	: Front heated seat switch LH	F4	B203	GR/2	: Rear wheel sensor RH
C2	B33	BR/6	: Front heated seat switch RH				

BODY HARNESS (RH SIDE)

B16 B28 (B34) B85 B53 (BZ) B41

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F3	B1	W/16	: To M18	E3	B34	W/2	: Seat belt buckle switch (Passenger side)
F3	B4	W/32	: To M79	F2	B40	W/8	: To M12
F2	B5	W/4	: To B350	D2	B41	W/2	: Luggage room lamp
C4	В9	W/32	: Bluetooth® control unit	F2	B42	W/24	: To M22
E3	B10	W/8	: Bluetooth® control unit	C2	B43	GR/2	: BOSE subwoofer

< WIRING DIAGRAM >

D2	B11	B/8	: BOSE speaker amp.	F3	B49	W/4	: Front door switch (Passenger side)
F2	B16	W/12	: To D301	D2	B53	W/4	: Rear door switch RH
D2	B20	B/16	: BOSE speaker amp.	D2	B56	Y/2	: RH side front curtain air bag module
C3	B22	W/3	: To B401	А3	B57	BR/2	: License plate lamp LH
E3	B23	W/8	: To B301	В3	B58	BR/2	: License plate lamp RH
D3	B27	B/16	: BOSE speaker amp.	C3	B59	W/6	: Rear combination lamp RH
E2	B28	Y/2	: Front RH side air bag module	СЗ	B81	L/2	: Inside key antenna (Rear seat)
E3	B29	Y/2	: Front RH seat belt pre-tensioner	C3	B82	L/2	: Inside key antenna (Luggage room)
E4	B30	Y/2	: RH side air bag (Satellite) sensor	A4	B83	L/2	: Outside key antenna (Rear bumper)
C2	B31	B/20	: Joint connector-B03	E3	B85	B/20	: Joint connector-B02
D2	B32	_	: Body ground				

ROOM LAMP HARNESS

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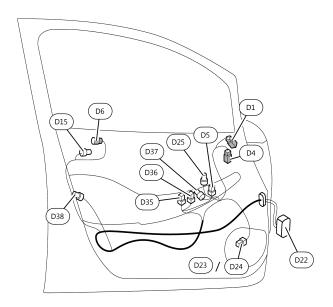
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E3	R1	W/16	: To M73	E1	R5	W/3	: Room lamp
D2	R3	W/6	: Microphone	D3	R6	B/7	: Auto anti-dazzling inside mirror (Without universal homelink transceiver)
E1	R4	W/8	: Map lamp	D3	R7	B/10	: Auto anit-dazzling inside mirror (With universal homelink transceiver)

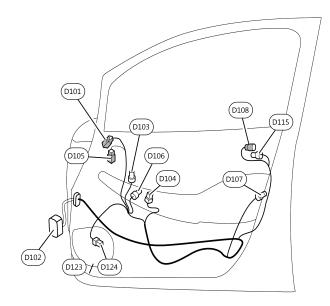
FRONT DOOR LH HARNESS



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D1	W/4	: Side camera LH	D24	BR/2	: Front door speaker LH (With BOSE audio system)
D4	W/8	: Door mirror LH	D25	Y/2	: Front door satellite sensor LH
D5	W/16	: Door mirror remote control switch	D35	W/16	: Power window main switch
D6	L/2	: Outside key antenna (Driver side)	D36	W/3	: Power window main switch
D15	B/2	: Front door request switch (Driver side)	D37	G/6	: Front power window motor LH (Driver side)
D22	W/55	: To M11	D38	GR/6	: Front door lock assembly (Driver side)
D23	W/2	: Front door speaker LH (Without BOSE audio system)			

FRONT DOOR RH HARNESS



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D101	W/4	: Side camera RH	D107	GR/6	: Front door lock assembly (Passenger side)
D102	W/55	: To M10	D108	L/2	: Outside key antenna (Passenger side)
D103	Y/2	: Front door satellite sensor RH	D115	B/2	: Front door request switch (Passenger side)
D104	W/12	: Front power window switch (Passenger side)	D123	W/2	: Front door speaker RH (Without BOSE audio system)
D105	W/8	: Door mirror RH	D124	BR/2	: Front door speaker RH (With BOSE audio system)
D106	G/6	: Front power window motor (Passenger side)			

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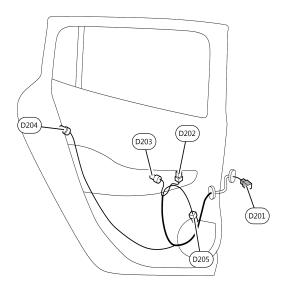
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REAR DOOR LH HARNESS



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D201	W/12	: To B17	D204	GR/6	: Rear door lock assembly LH
D202	W/8	: Rear power window switch LH	D205	W/2	: Rear door speaker LH
D203	G/6	: Rear power window motor LH			

REAR DOOR RH HARNESS

D302 D303 D305

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D301	W/12	: To B16	D304	GR/6	: Rear door lock assembly RH
D302	W/8	: Rear power window switch RH	D305	W/2	: Rear door speaker RH
D303	G/6	: Rear power window motor RH			

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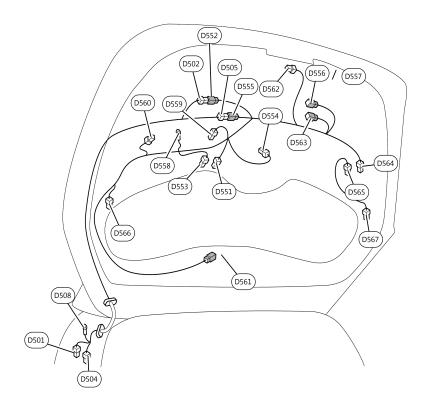
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BACK DOOR HARNESS



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D501	W/4	: To B19	D557	W/8	: Rear view camera (With around view monitor)
D502	W/2	: To D552	D558	_	: Body ground
D504	W/20	: To B18	D559	W/1	: Coil
D505	W/12	: To D555	D560	W/4	: Coil
D508	_	: Body ground	D561	W/4	: To D602
Back d	Back door sub harness		D562	W/4	: Back door lock assembly
D551	B/1	: Condenser	D563	GR/4	: Back door opener switch assembly
D552	W/2	: To D502	D564	B/1	: Condenser-1
D553	B/1	: Condenser	D565	B/1	: Rear window defogger
D554	W/4	: Rear wiper motor	D566	B/1	: Condenser-1
D555	W/12	: To D505	D567	B/1	: Rear window defogger
D556	W/4	: Rear view camera (Without around view monitor)			

HIGH VOLTAGE HARNESS

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В4	H1	O/4	: Electric compressor (Without heat pump)	C4	H7	O/4	: PDM (Power delivery module)
B4	H2	O/3	: Electric compressor (With heat pump)	D4	H8	O/2	: PDM (Power delivery module)
E2	НЗ	O/3	: Li-ion battery	В3	H10	O/2	: Quick charge port
C3	H4	1	: Body ground	C4	H11	O/3	: Normal charge port

< WIRING DIAGRAM >

D3	H5	O/3	: PDM (Power delivery module)	F2	H19	O/6	: Li-ion battery
C2	H6	O/3	: PDM (Power delivery module)				

FUSE BLOCK - JUNCTION BOX (J/B)

Terminal Arrangement

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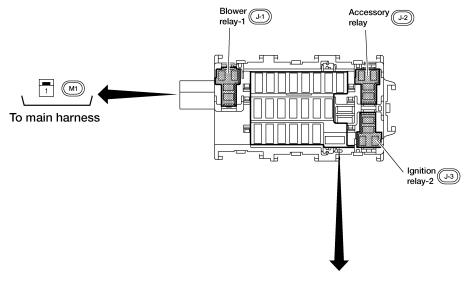
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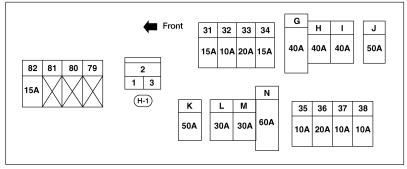
FUSE, FUSIBLE LINK AND RELAY BOX

Terminal Arrangement

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FUSE, FUSIBLE LINK AND RELAY BOX 1 AND FUSIBLE LINK BOX (BATTERY)

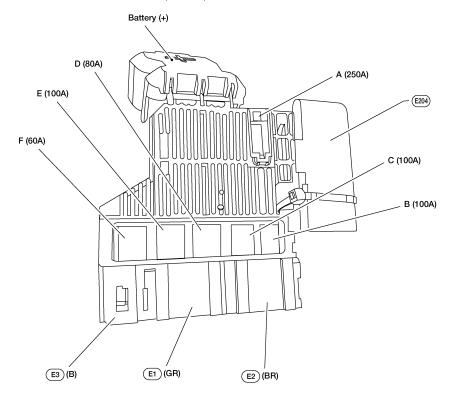
FUSE, FUSIBLE LINK BOX AND RELAY BOX 1



NO. 51 - 38, 79 - 82 :FUSE

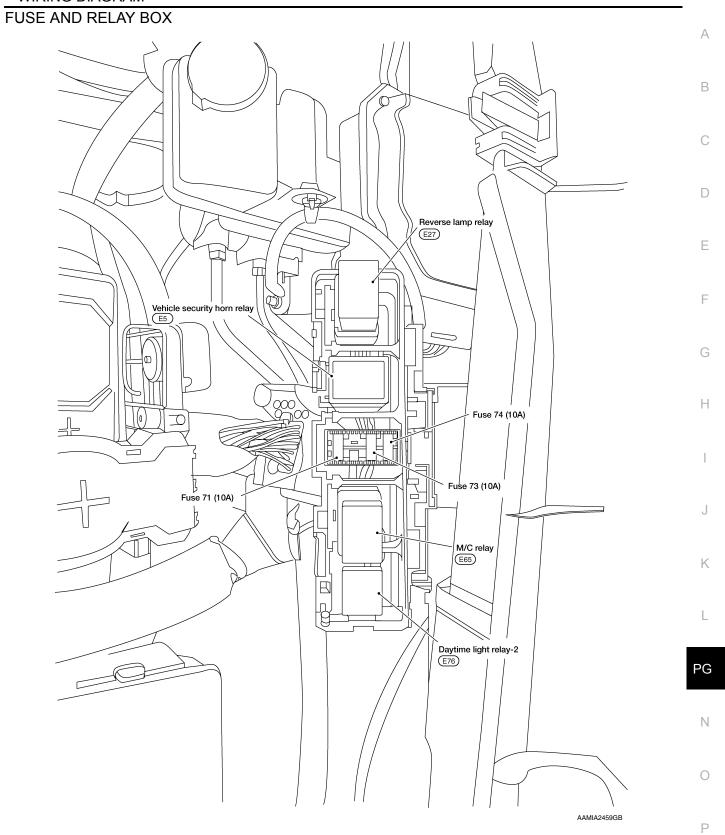
G - N :FUSIBLE LINK

FUSIBLE LINK BOX (BATTERY)

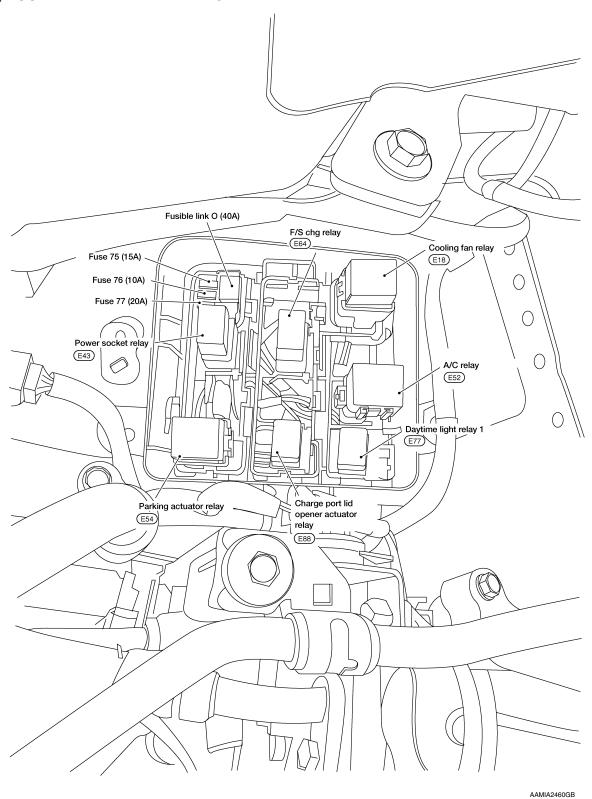


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FUSE, FUSIBLE LINK AND RELAY BOX



FUSE, FUSIBLE LINK AND RELAY BOX 2



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

IPDM E/R Terminal Arrangement

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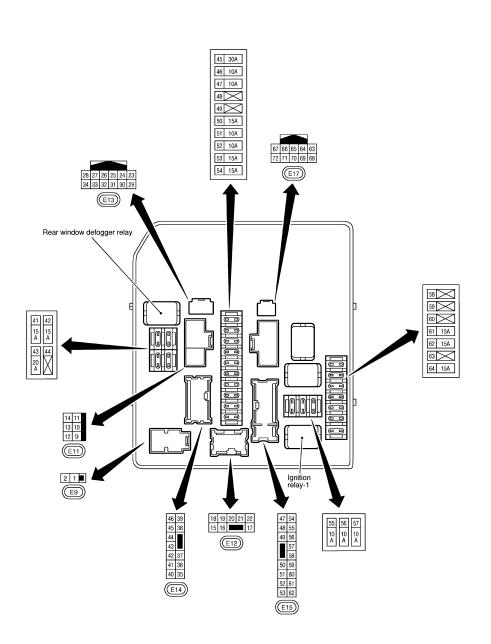
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BASIC INSPECTION

12V BATTERY INSPECTION

How to Handle 12V Battery

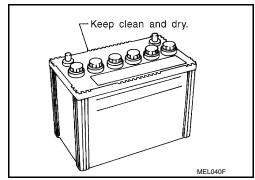
CAUTION:

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

METHODS OF PREVENTING OVER-DISCHARGE

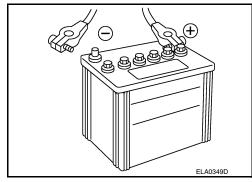
The following precautions must be taken to prevent over-discharging a battery.

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



INFOID:0000000010641302

• 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, "Precaution for Removing 12V Battery".



Work Flow

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

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

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

NOTE:

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

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

Check Electrolyte Level

WARNING:

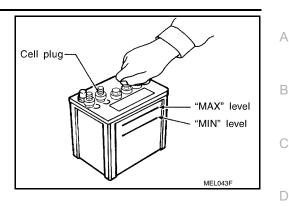
Never allow battery fluid to come in contact with skin, eyes, fabrics, or painted surfaces. After touching a 12V battery, never touch or rub your eyes until you have thoroughly washed your hands. If acid contacts eyes, skin or clothing, immediately flush with water for 15 minutes and seek medical attention.

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

12V BATTERY INSPECTION

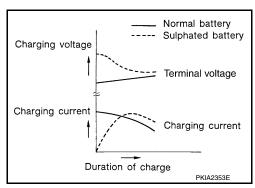
< BASIC INSPECTION >

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



SULFATION

- 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 sulfation on the cell plates.
- · To determine if a 12V battery has been "sulfated", 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 sulfated batteries.
- · A sulfated 12V battery may sometimes be brought back into service by means of a long, slow charge, 12 hours or more, followed by a battery capacity test.



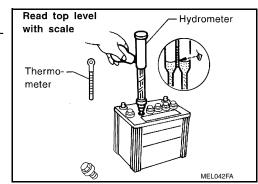
Specific Gravity Check

NOTE:

Check the charge condition of the battery.

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

- Read hydrometer and thermometer indications at eye level.
- 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

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12V BATTERY INSPECTION

< BASIC INSPECTION >

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

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

Charging The 12V Battery

CAUTION:

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

Charging Rates (Standard Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	7	2
3/4 charged		2.5
1/2 charged		5
1/4 charged		7.5
Almost discharged		9
Completely discharged		10

Charging Rates (Quick Charge)

Approximate charge condition	Charge current (A)	Charge time (h)
Fully charged	_	_
3/4 charged	16	
1/2 charged	33	0.5
1/4 charged		0.5
Almost discharged		
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.

ADDITIONAL SERVICE WHEN REMOVING 12V BATTERY NEGATIVE TERMINAL

< BASIC INSPECTION >

ADDITIONAL SERVICE WHEN REMOVING 12V BATTERY NEGATIVE TERMINAL

Special Repair Requirement

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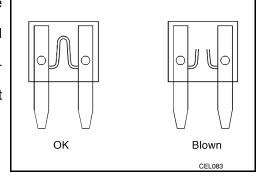
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System	Item	Reference
EV Control System	VCM Timer Adjustment	EVC-132, "Description"
Power Window Control System	Power Window System Initialization	PWC-30, "Description"
Heater & Air Conditioning Control System	Temperature Setting Trimmer	HAC-83, "Temperature Setting Trimmer" (with heat pump)
	Inlet Port Memory Function (REC)	HAC-83, "Inlet Port Memory Function (REC)" (with heat pump)
	Inlet Port Memory Function (FRE)	HAC-84, "Inlet Port Memory Function (FRE)" (with heat pump)
	Foot Position Setting Trimmer	HAC-84, "Foot Position Setting Trimmer" (with heat pump)
	Compressor Operation Setting at Defroster Mode (Timer/Remote Climate Control)	HAC-84, "Compressor Operation Setting at Defroster Mode (Timer/Remote Climate Control)" (with heat pump)
	Setting of Compressor Maximum Rotation Speed During Pre Air Conditioning	HAC-85, "Setting of Compressor Maximum Rotation Speed During Pre Air Condition- ing" (with heat pump)
	Setting of Compressor Maximum Rotation Speed During Idling	HAC-85, "Setting of Compressor Maximum Rotation Speed During Idling" (with heat pump)
	Temperature Setting Trimmer	HAC-275, "Temperature Setting Trimmer" (without heat pump)
	Inlet Port Memory Function (REC)	HAC-275, "Inlet Port Memory Function (REC)" (without heat pump)
	Inlet Port Memory Function (FRE)	HAC-276, "Inlet Port Memory Function (FRE)" (without heat pump)
	Foot Position Setting Trimmer	HAC-276, "Foot Position Setting Trimmer" (without heat pump)
	Compressor Operation Setting at Defroster Mode (Timer/Remote Climate Control)	HAC-276, "Compressor Operation Setting at Defroster Mode (Timer/Remote Climate Control)" (without heat pump)
	Setting of Compressor Maximum Rotation Speed During Pre Air Conditioning	HAC-277, "Setting of Compressor Maximum Rotation Speed During Pre Air Conditioning" (without heat pump)
	Setting of Compressor Maximum Rotation Speed During Idling	HAC-277, "Setting of Compressor Maximum Rotation Speed During Idling" (without heat pump)
Audio Vigual 9 Novigation Custom	Audio (Radio Preset)	Refer to Owner's Manual
Audio, Visual & Navigation System	Navigation System	Refer to Owner's Manual

FUSE INSPECTION

Fuse INFOID:000000010641292

- 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

Fusible Link

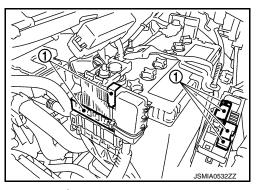
A melted fusible link can be detected either by visual inspection or by feeling with finger tip. If its condition is questionable, use circuit tester or test lamp.

1 : Fusible link

∀
 □: Vehicle front

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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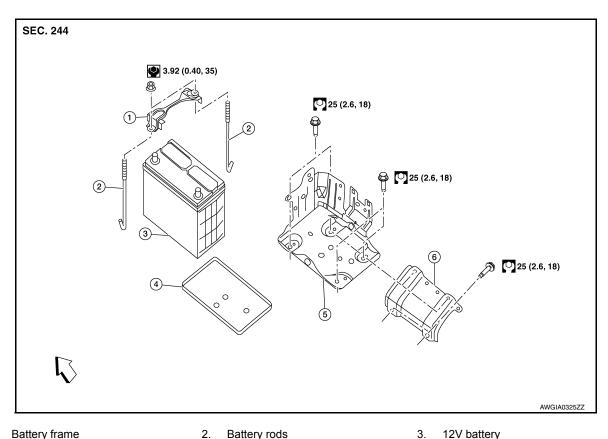
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REMOVAL AND INSTALLATION

12V BATTERY

Exploded View INFOID:0000000010641307



- Battery frame
- Battery tray liner
- Battery tray

- 12V battery
- Battery tray bracket

Removal and Installation

INFOID:0000000010641308

REMOVAL

<□ Front

Disconnect the 12V battery cable from the negative terminal. Refer to PG-6, "Precaution for Removing 12V Battery".

CAUTION:

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

- Remove cover of 12V battery positive terminal.
- 3. Disconnect the 12V battery cable from the positive terminal.
- 4. Remove battery frame nuts, battery frame and battery rods.
- 5. Remove 12V battery.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

12V BATTERY

< REMOVAL AND INSTALLATION > Reset electronic systems as necessary. Refer to PG-79. "Special Repair Requirement". Α В С D Е F G Н J Κ L

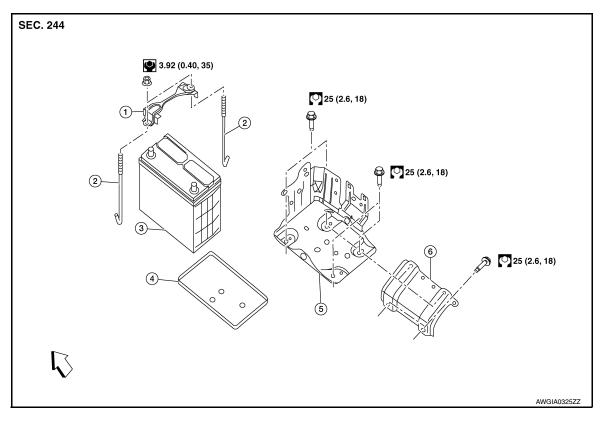
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BATTERY TRAY

Exploded View INFOID:0000000010641309



- Battery frame
- Battery tray liner
- ← Front

- 2. Battery rods
- 5. Battery tray

- 3. 12V battery
- Battery tray bracket

INFOID:0000000010641310

Removal and Installation

REMOVAL

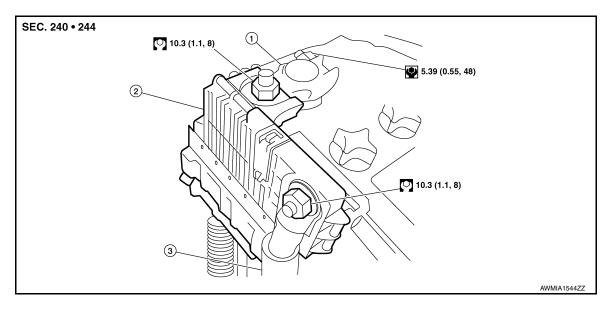
- 1. Remove the 12V battery. Refer to PG-82, "Removal and Installation".
- 2. Remove the battery tray liner.
- 3. Remove the ground strap retainers from the battery tray and set the ground strap aside.
- 4. Remove battery tray bolts and battery tray.
- 5. Remove battery tray bracket bolts and battery tray bracket (if necessary).

INSTALLATION

Installation is in the reverse order of removal.

BATTERY TERMINAL WITH FUSIBLE LINK

Exploded View



1. Positive terminal

2. Fusible link box (12V battery)

3. Positive cable

Removal and Installation

INFOID:0000000010641312

REMOVAL

1. Disconnect the negative terminal from the 12V battery and reposition. Refer to <u>PG-6, "Precaution for Removing 12V Battery"</u>.

CAUTION:

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

- 2. Remove cover from the positive terminal.
- Disconnect the terminal from the 12V battery.
- Disconnect positive cable from fusible link box (12V battery).
- 5. Disconnect harness connectors and separate positive terminal from fusible link box (12V battery).

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Reset electronic systems as necessary. Refer to PG-79, "Special Repair Requirement".

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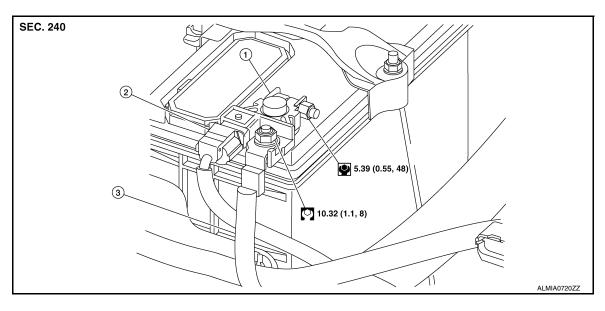
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BATTERY CURRENT SENSOR

Exploded View



1. Negative terminal

2. Battery current sensor

3. Negative cable

Removal and Installation

INFOID:0000000010641314

REMOVAL

- Disconnect the negative terminal from the 12V battery. Refer to <u>PG-6, "Precaution for Removing 12V Battery"</u>.
- 2. Disconnect the harness connector from the current sensor.
- 3. Remove the battery current sensor mounting nut.
- 4. Remove the battery current sensor from 12V battery negative cable.

INSTALLATION

Install in the reverse order of removal.

CAUTION:

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

Reset electronic systems as necessary. Refer to PG-79. "Special Repair Requirement".

SERVICE DATA AND SPECIFICATIONS (SDS)

< SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

SERVICE DATA AND SPECIFICATIONS (SDS)

12V Battery

Type*		51R	
20 hour rate capacity	[V – Ah]	12 – 43	
Cold cranking current (For reference value)	[A]	410	

^{*:} Always check with the Parts Department for the latest parts information.

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