

Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

2016 NISSAN Grand Livina OEM Service and Repair Workshop Manual

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INFORMATION

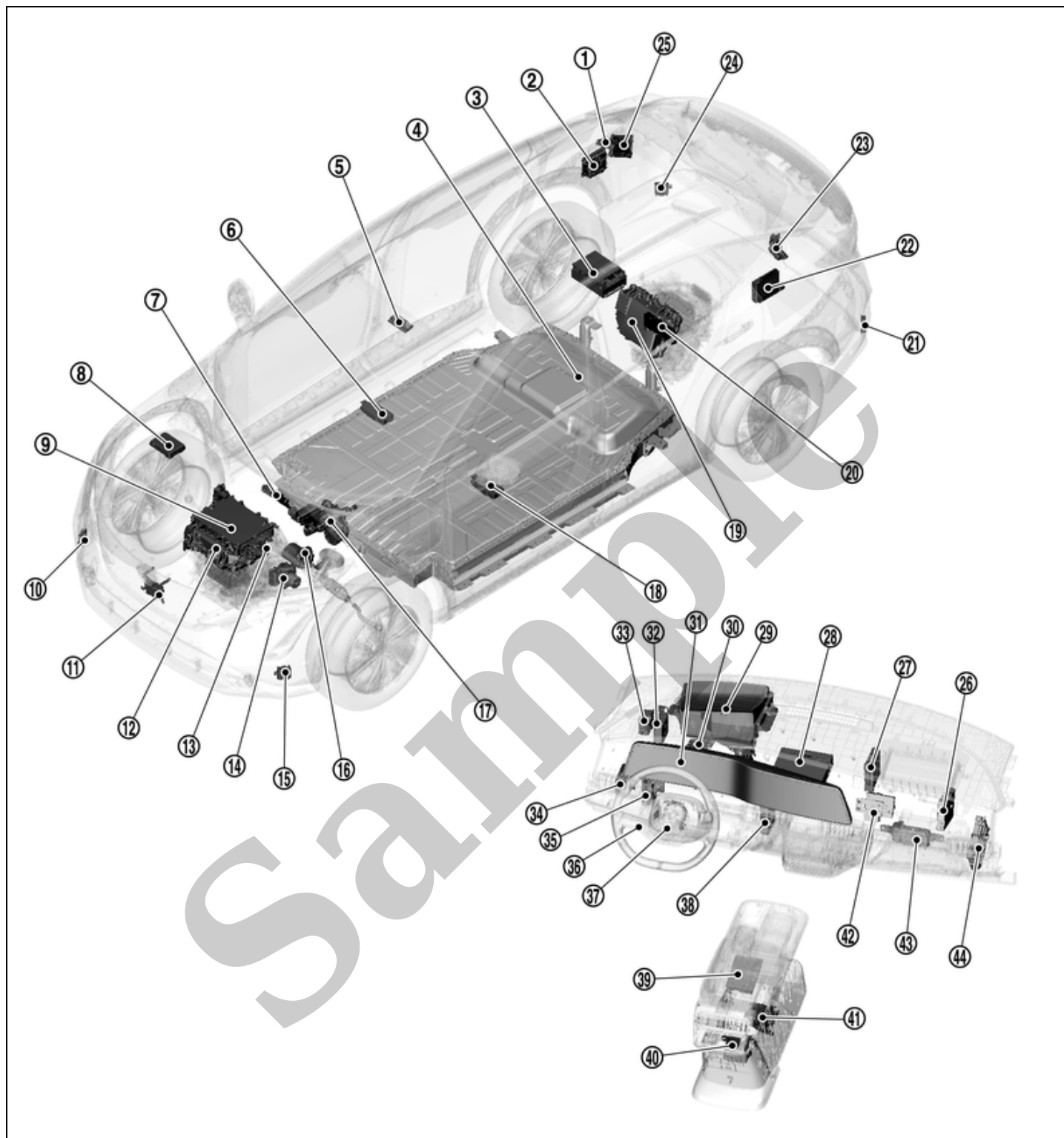
- “CAN” of LAN Section describes information peculiar to a vehicle and inspection procedures.
- For trouble diagnosis procedure, Refer to [Trouble Diagnosis Flow Chart](#).

ABBREVIATION LIST

Unit name abbreviations in CONSULT CAN diagnosis and in this section are as per the following list.

Abbreviation	Unit name	On Network Diagnosis
8ch GW 2	8CH CAN gateway	8ch CAN GATEWAY 2
A-AMP.	BOSE amp.	AUDIO AMPLIFER
A-BAG	Air bag diagnosis sensor unit	AIR BAG
ABS	ABS actuator and electric unit (control unit)	ABS
ADP	Driver seat control unit	DRIVER SEAT
ANC	Active noise control unit	ACTIVE NOISE CONTROL
AV	AV control unit	MULTI AV
AVM	Around view monitor control unit	AROUND VIEW MONITOR
BCM	BCM	BCM
BRAKE	Electrically-driven intelligent brake unit	BRAKE
CCM	Chassis control module	CHASSIS CONTROL
CPLC	CPLC	CALCULATOR POWER LINE COMMUNICATION
DCDC	DC/DC converter	DC/DC CONVERTER
DLC	Data link connector	—
DM CAM	Driver monitor camera control unit	DRIVER MONITOR CAMERA
E-HUD	Head Up Display unit	HEAD UP DISPLAY
E-SHIFT	Electric shift control module	SHIFT
EPS/DAST 3	Power steering control module	EPS/DIRECT ADAPTIVE STEERING 3
EV/HEV	VCM	EV/HEV
HFM	Intelligent Key unit	INTELLIGENT KEY
HPCU	Heat pump control unit	HEAT PUMP CONTROL
HVAC	A/C auto amp.	HVAC
HV BAT	Li-ion battery controller	HIGH VOLTAGE BATTERY/HIGH VOLTAGE BATTERY 2
ICC 2	ADAS control unit 2	ICC/ADAS 2
INV/MC	Inverter (front)	MOTOR CONTROL
IPDM-E	IPDM E/R	IPDM E/R
IVC	TCU	IVC
LANE	Front camera unit	LANE CAMERA
LASER	Distance sensor	LASER/RADAR
LIB 12V	12V sub battery (lithium ion battery)	LITHIUM ION BATTERY 12V
M&A	Combination meter	COMBINATION METER

Abbreviation	Unit name	On Network Diagnosis
OBC/PD MODULE	On-board charger	CHARGER/POWER DELIVERY MODULE
PNSR	Power network separate relay	PNS relay
PSCU	Passenger seat control unit	PASSENGER SEAT
PWBD	Automatic back door control unit	AUTOMATIC BACK DOOR
RDR-FL	Side radar front LH	SIDE RADAR (FRONT LEFT)
RDR-FR	Side radar front RH	SIDE RADAR (FRONT RIGHT)
RDR-RL	Side radar rear LH	SIDE RADAR (REAR LEFT)
Rr INV/MC	Inverter (rear)	REAR MOTOR CONTROL
RDR-RR	Side radar rear RH	SIDE RADAR (REAR RIGHT)
SC CM	Steering column control module	STEERING COLUMN
SONAR	Sonar control unit	SONAR
STRG	Steering angle sensor	—
VSP	Approaching vehicle sound for pedestrians (VSP) control unit	VSP
WL CHG	Wireless charger unit	WIRELESS CHARGER



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①	Automatic back door control unit	②	<ul style="list-style-type: none"> • BOSE amp. *1 • Active noise control unit *2 	③	12V sub battery (lithium ion battery)
④	Li-ion battery	⑤	Front camera unit	⑥	Passenger seat control unit
⑦	VCM	⑧	IPDM E/R	⑨	ON-board charger
⑩	Side radar front RH	⑪	Distance sensor	⑫	Inverter (front)
⑬	DC/DC converter	⑭	ABS actuator and electric unit (control unit)	⑮	Side radar front LH

⑩⑥	Power steering control module	⑩⑦	Electrically-driven intelligent brake unit	⑩⑧	Driver seat control unit
⑩⑨	Inverter (rear)	⑩⑩	Power network separate relay	⑩⑪	Side radar rear LH
⑩⑫	Around view monitor control unit	⑩⑬	Sonar control unit	⑩⑭	Side radar rear RH
⑩⑮	ADAS control unit 2	⑩⑯	A/C auto amp.	⑩⑰	Heat pump control unit
⑩⑱	AV control unit	⑩⑲	Head Up Display unit	⑩⑳	Driver monitor camera control unit
⑩㉑	Combination meter	⑩㉒	Steering column control module	⑩㉓	Chassis control module
⑩㉔	Approaching vehicle sound for pedestrians (VSP) control unit	⑩㉕	8CH CAN gateway	⑩㉖	Data link connector
⑩㉗	Steering angle sensor	⑩㉘	TCU	⑩㉙	Wireless charger unit
⑩㉚	Electric shift control module	⑩㉛	Air bag diagnosis sensor unit	⑩㉜	Intelligent Key unit
⑩㉝	CPLC	⑩㉞	BCM		

*1: With BOSE audio

*2: Without BOSE audio

DANGER:

Since hybrid vehicles and electric vehicles contain a high voltage battery, there is the risk of electric shock, electric leakage, or similar accidents resulting in death or severe injury, if high voltage components and vehicle are mishandled. When performing an inspection or maintenance, be sure to comply with the instructions below to perform correct work procedures.

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:

- Be sure to install the high voltage harness clips to the original positions to prevent damage to high voltage harness. If the clips are damaged, replace them with new ones before installing the high voltage harness.
- To prevent damage to parts, never allow coolant to splash on the high voltage harness connector. If coolant splashes on the high voltage harness connector, immediately remove moisture from the high voltage harness connector by using an air blow gun.
- 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.

POINT TO BE CHECKED BEFORE STARTING MAINTENANCE WORK

The high voltage system may start automatically. It is required to check that the charge cable (including EVSE) is not connected to charge port before starting maintenance work.

**NOTE:**

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

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.

GUIDELINES 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. credit card, debit 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.

POST A SIGN OF “DANGER! HIGH VOLTAGE AREA. KEEP OUT”

Call the attention of other workers and indicate "High voltage work in progress." Do not touch vehicles where work is being performed on high voltage systems.

Sample

Person in charge: _____

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

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

Person in charge: _____

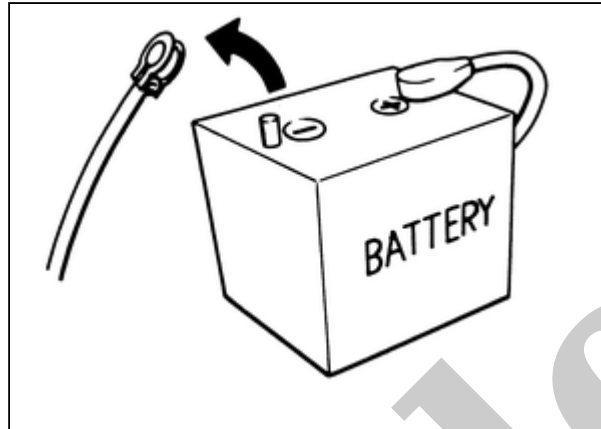
Copy this page and put it after folding on the roof of the vehicle in service.

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PRECAUTIONS FOR REMOVING BATTERY TERMINAL : Precautions

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- With the adoption of Auto ACC function, ACC power is automatically supplied by operating the Intelligent Key or remote keyless entry or by opening/closing the driver side door. In addition, ACC power is supplied even after the ignition switch is turned to the OFF position, i.e. ACC power is supplied for a certain fixed time.
- When disconnecting the 12V battery terminal, turn off the ACC power before disconnecting the 12V battery terminal, observing “How to disconnect 12V battery terminal” described below.



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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.

- Disconnect 12V battery terminal according to the following steps. Even when the power switch is OFF, the 12V battery automatic charge control may automatically start.

CAUTION:

Do not remove the battery during the update as the software update cannot be completed normally if the battery is removed during the software update.

WORK PROCEDURE

1. Open the hood (LHD models) or the back door (RHD models).
2. Check that charge cable (including EVSE) is not connected to the charge port.



NOTE:

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

3. Turn the power switch OFF → ON → press the power switch for at least 2 seconds to turn the high voltage system OFF, and then check that the charging status indicator is not illuminated.



NOTE:

When the high voltage system is turned ON, the charging status indicator blinks green with a frequency of 1 second.

4. Get out of the vehicle. Close all doors {except the hood (LHD models) or the back door (RHD models)}.
5. Check that the combination meter turns OFF and wait for 5 minutes or more.

CAUTION: