Your Ultimate Source for OEM Repair Manuals

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2015 NISSAN Grand Livina OEM Service and Repair Workshop Manual

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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.

Person in charge:_____

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

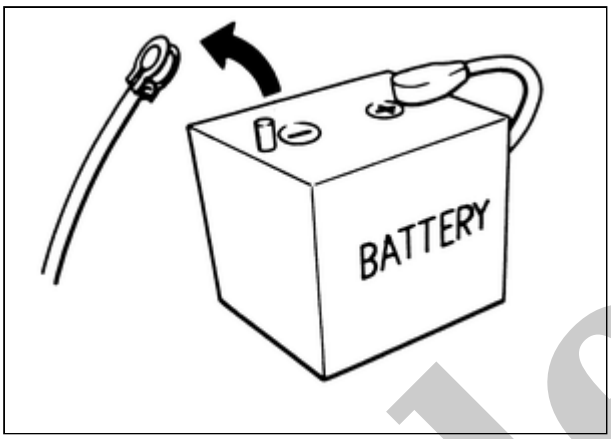
DANGER:
HIGH VOLTAGE
REPAIR IN PROGRESS.
DO NOT TOUCH!

Person in charge:_____

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

- 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.



RDE-001875223-01-EF289H

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.

- **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:
While waiting, never operate the vehicle such as locking, opening, and closing doors. Violation of this caution results in the activation of ACC power supply according to the Auto ACC function.

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

6. Check that the followings are not illuminated.
    - Charging status indicator
    - Electric parking brake warning lamp
7. Remove 12V battery terminal within 60 minutes after the power switch is turned OFF at Step 3.

CAUTION:
- **After all doors (including hood and back door) are closed, if a door (including hood and back door) is opened before battery terminals are disconnected, start over from Step 3.**
- **After turning the power switch OFF, if “Remote A/C” is activated by user operation, stop the air conditioner and start over from Step 3.**

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

- For vehicles with the 2-batteries, be sure to connect the main battery and the sub battery before turning ON the power switch.

NOTE:
If the power switch is turned ON with any one of the terminals of main battery and sub battery disconnected, then DTC may be detected.

- After installing the 12V battery, always check "Self Diagnosis Result" of all ECUs and erase DTC.

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

RDE-001982740

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

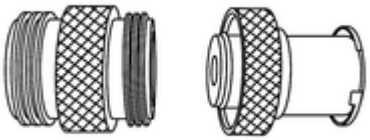
WARNING:

- **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

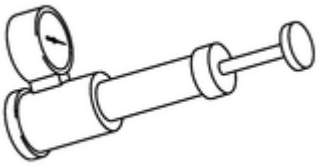
WARNING:

- **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.**

Tool name		Description
Radiator cap tester adapter EG17651130	 RDE-001824637-02-SBIA5531ZZ	• Adapting radiator cap tester to radiator cap and radiator filler neck • Reservoir tank attachment dimensions Outer diameter: 45 mm (1.77 in) Thread pitch: 3.0 mm (0.118 in)

HIGH VOLTAGE COOLING SYSTEM : Commercial Service Tools or/and Repair Part

RDE-001824638

Tool name		Description
Radiator cap tester	 RDE-001824638-01-BIC1982E	Inspection of radiator and reservoir tank cap

RDE-001824652

COOLANT CAPACITY (APPROXIMATE)

Electric power train cooling system

Unit: ℓ (US qt, Imp qt)

Coolant capacity (With reservoir tank at “MAX” level)	3.8 (4, 3–3/8)
Reservoir tank engine coolant capacity (At “MAX” level)	0.7 (6/8, 5/8)

Li-ion battery cooling system

Unit: ℓ (US qt, Imp qt)

Coolant capacity (With reservoir tank at “MAX” level)	2.9 (3–1/8, 2–4/8)
Reservoir tank engine coolant capacity (At “MAX” level)	0.4 (6/8, 3/8)

RDE-001980234

COOLANT CAPACITY (APPROXIMATE)

Electric power train cooling system

Unit: ℓ (US qt, Imp qt)

Coolant capacity (With reservoir tank at “MAX” level)	5.8 (6–1/8, 5–1/8)
Reservoir tank engine coolant capacity (At “MAX” level)	0.7 (6/8, 5/8)

Li-ion battery cooling system

Unit: ℓ (US qt, Imp qt)

Coolant capacity (With reservoir tank at “MAX” level)	2.9 (3–1/8, 2–4/8)
Reservoir tank engine coolant capacity (At “MAX” level)	0.4 (3/8, 3/8)