

Nissan Leaf Module Handling Information Thunderstruck Motors

Safety and Care

- Short circuits or mishandling can damage cells internally.
- Tools should be insulated and never placed on the pack.
- Test connections with a voltmeter before attaching interconnects or cables.
- All terminals are high current sources and should be kept insulated during assembly.
- Lift assembled packs with non-conductive straps to avoid short circuits.

Pack Construction and Operation

- Each module contains four cells. Two in parallel, and two parallel pairs in series. Voltage between red and black terminals is 8 volts nominal. The center terminal taps into the series connection between pairs (4 volts to each side).
- Test modules for balance before assembly and charge individually if necessary.
- Align and square the modules before compressing as below.
- Modules must be held under compression using end plates and through bolts. 4 ea. 1/4" or 6mm all-thread rods are recommended. Tighten all-thread nuts to 120 in-lbs in a progressive manner until torque is reached.
- Tighten 6mm terminal bolts to 120 in-lbs.
- OEM end plates are available from Thunderstruck Motors.
- Once built, a split garden hose or 3/4" clear vinyl tubing can be used to insulate each row of terminals.
- BMS installation is required for safety during charging and operation.