

## Nissan Leaf High Voltage (HV) Battery Translator Fitting Instructions (Full Loom Kit to suit Leaf models 2013 -)



### **Kit Contents:**

- 1 x HV Battery Translator Module  
(Configured to suit car & battery type chosen when ordering)
- 1 x Custom Wiring Loom
- 1 x Anodised Aluminium Mounting Bracket
- 2 x M5 16mm Button Head Screws
- 1 x M6 25mm Button Head Screw
- 1 x M6 Washer
- 1 x Retaining Clip
- 2 x 200mm Cable Ties
- 1 x Plastic swivel mount

### **Tools required:**

- 1 x M3 Hex Key
- 1 x M4 Hex key
- 1 x M10 Socket with wrench
- 1 x Small pair of side cutters

### **Also Required:**

- Replacement Battery Pack – (2013-)
- Thread Locking Compound

Thank you for supporting EVs Enhanced with your purchase. This HV Battery Translator kit allows you to upgrade your Nissan Leaf with a newer HV battery helping extend the usable life of your vehicle. For product support, please contact your reseller.

**Important Safety Message:**

**Electric Vehicles use high voltage which is potentially dangerous. Ensure that all appropriate safety equipment is used and safety precautions are followed when operating around high voltage.**

**Before installing your new HV Battery Translator:**

Before swapping out the original battery pack, using a scan tool such as LeafSpy Pro, check to ensure no DTC codes are present. Also ensure that your vehicle is updated with the latest Vehicle Control Module and On Board Charger firmware. This guide illustrates how to correctly mount and install the HV Battery Translator. Before beginning the following guide, the original battery should be removed following Nissan's recommended procedure. The replacement battery pack can then be bolted in place. All HV battery connectors including the safety disconnect switch should remain disconnected as well as the 12V battery before beginning the Battery Translator installation.

1. Refit HV battery connector and PTC power outlet connector to the battery pack.



## 2. Fit Translator Mounting Bracket.

2a. Remove the 1 x M6 bolt holding the HV Battery Cable Support bracket.



2b. Align the mounting bracket and fix in place using a thread locking compound with the supplied M6 button head screw and washer at the bottom and retaining clip up top.



3. Mount Battery Translator to the bracket using a thread locking compound with the 2 x supplied M5x16mm screws ensuring the translator connector is facing the rear of the vehicle.



4. Fit the supplied wiring harness making sure no cable strain exists and all connectors are clipped firmly in place. Fix wiring harness in place to the top of the HV Cable using the supplied wiring support and 2 x cable ties as per below images, trim off cable tie excess using side cutters taking care not to damage any wiring.



5. Refit under trays and install safety disconnect switch.

6. Reconnect 12V Battery.

7. It is now time to pair the replacement battery pack to the vehicle. The vehicle should now power on into “turtle” mode. Checking DTC codes using LeafSpy should now only show a P3102 error code. Using your HV Battery Pairing tool, you can now eliminate the P3102 error code, pairing the replacement pack to the vehicle. Follow the guide provided with your HV Battery Pairing Tool for instructions.

