

## INSTALLING THE HYBRID ReVOLT UNIVERSAL GRID CHARGER IN AN INSIGHT



### This harness kit includes:

Insight harness (2000 to 2006)

- |     |                                    |     |                   |
|-----|------------------------------------|-----|-------------------|
| (a) | 4 #6 mounting screws for bulkhead  | (b) | 3 zip ties        |
| (c) | 2 sheet metal screws for fan board | (d) | 15" Aluminum tape |
| (e) | 1 charger connector cover          | (f) | 1 drill template  |
| (g) | 1 HV warning label                 |     |                   |

## You will need the following tools and equipment:

Good pair of small wire cutters

Wire stripper

Metric wrenches

#2 Phillip screwdriver

Wide flat blade screwdriver

Torx T-30 driver

3/8" drill bit (for temp probe holes)

5/32" drill bit (for bulkhead connector)\* {3/16" will also work}

7/8" step drill bit

Punch

Digital multi-meter (Radio Shack or Harbor Freight have inexpensive ones)

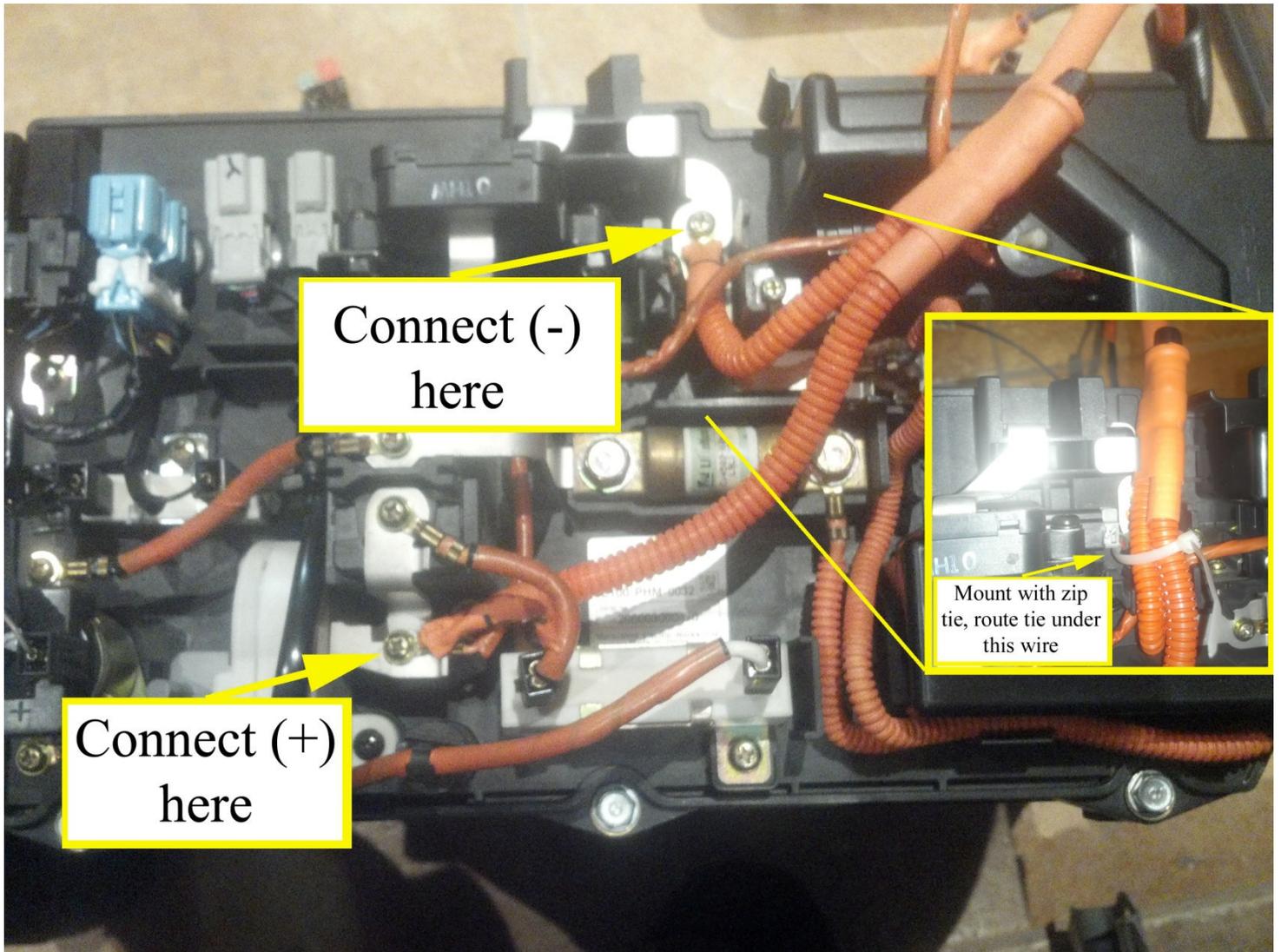
## Instructions:

*Note: All references to front, back, left, right, or top are in relation to the vehicle. A reference to the front of the pack would mean a location on the pack towards the front bumper, left would reference toward the driver's side, etc.*

**WARNING:** *The IMA battery contains lethal voltage, even when the vehicle is off! Install at your own risk. You must evaluate your abilities to safely perform this installation and seek qualified help if you are not 100% certain in your abilities.*

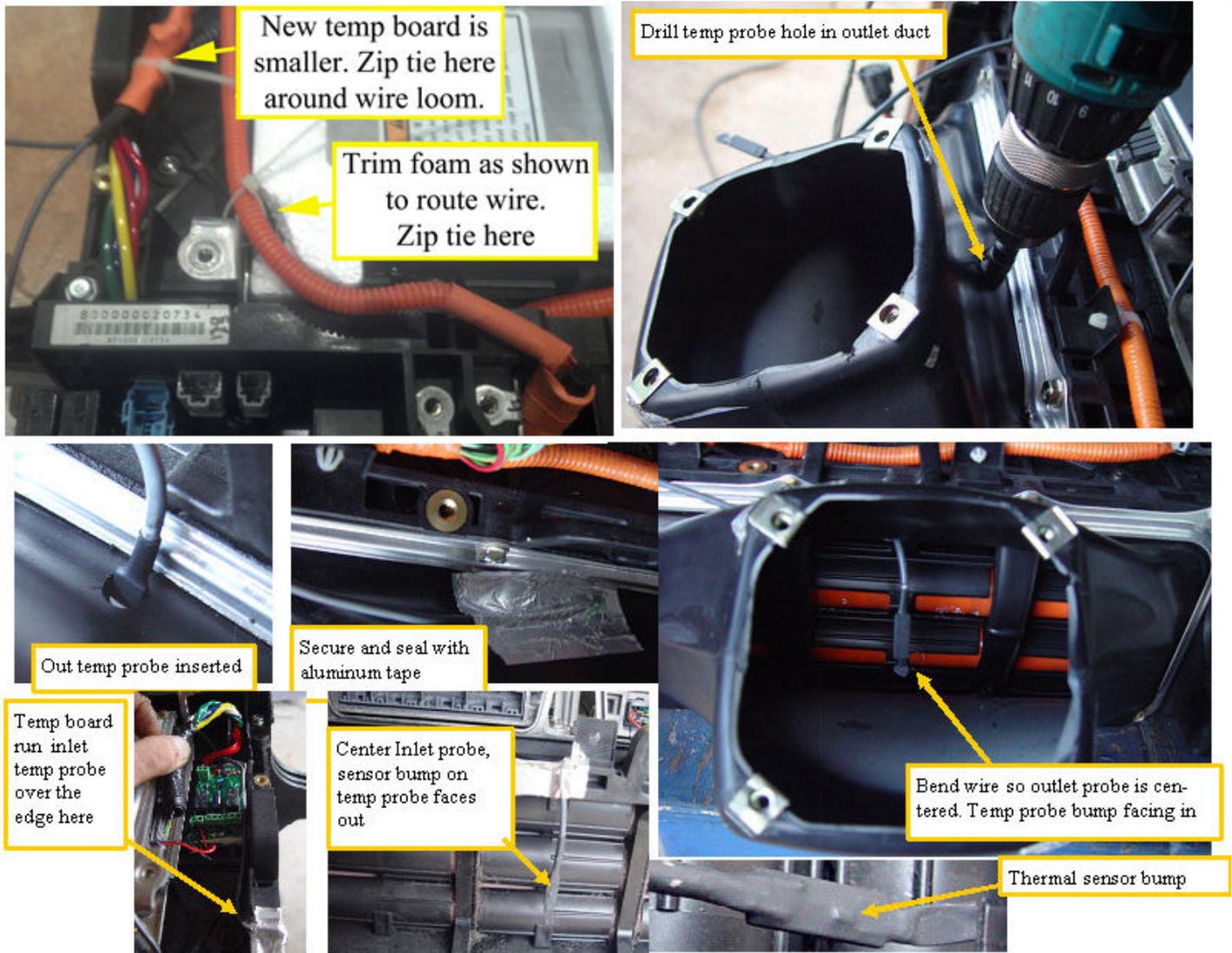
**Open the IPU (IMA) cover and remove the IMA battery** (*ask us for separate instructions if needed*)

**Connect the harness HV positive and negative leads to the IMA battery**



Verify that the IMA switch is OFF. Using a Phillips screwdriver, connect the positive (+) and negative (-) leads from the harness to the junction board at the indicated locations. Once connected, fasten the wiring harness with a zip tie as shown (top of fuse should be flush with top of pack).

## Mounting the temperature board:



The temperature board is mounted using a zip tie as shown. Route the harness (+) (-) lead & trimming the foam as shown. Secure with zip tie. This version of the harness does not need to be tied into the PTC wiring. {The harness is designed to work with both the Hybrid ReVolt and the Genesis One grid chargers.}

### Mount the front (inlet) temp probe:

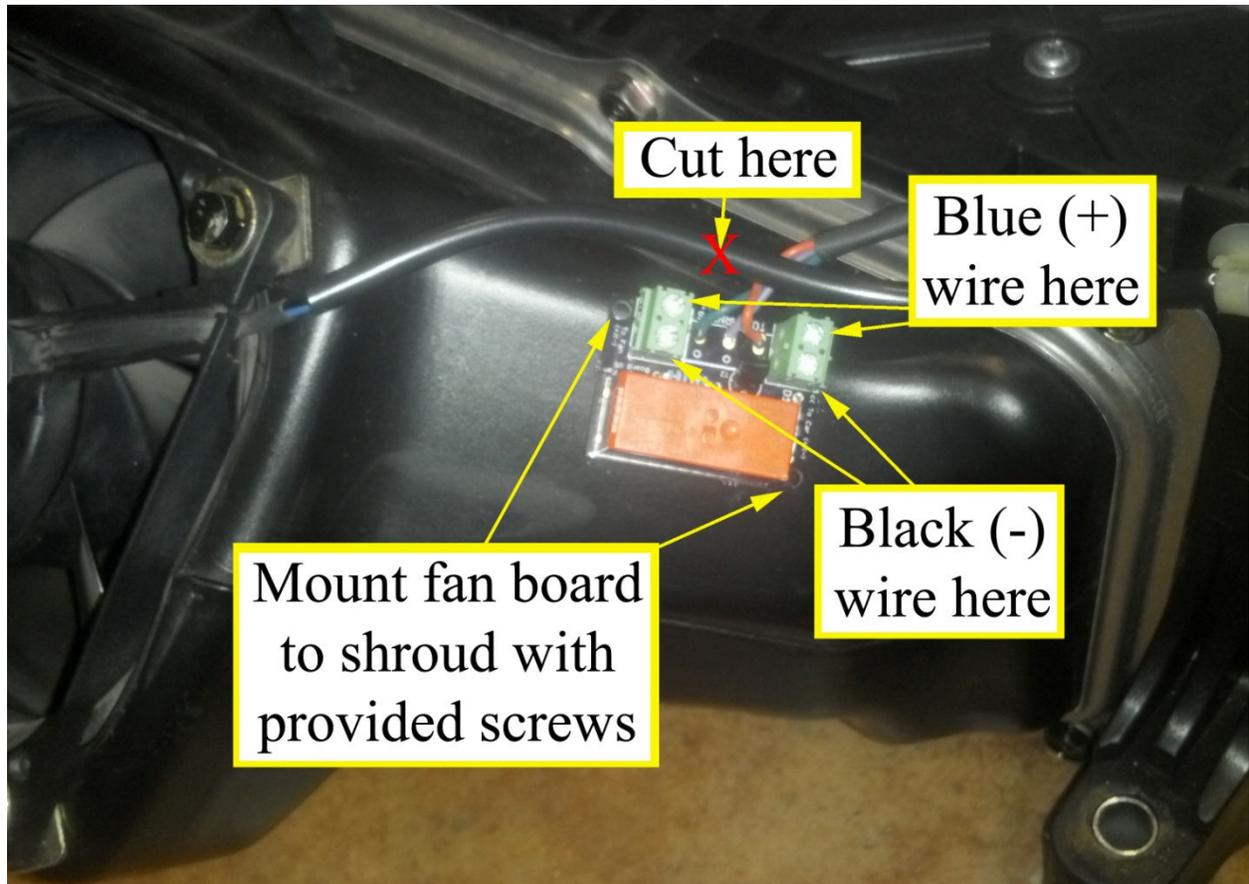
Route the inlet temp probe over the front edge of the case and secure with a piece of aluminum tape.

Mount the rear (outlet) temp probe:

Drill a 3/8" hole in the fan shroud as shown above. Install the temp probe and hold in place with a piece of aluminum tape.

**Reinstall the IMA battery**

**Mounting the fan board:**



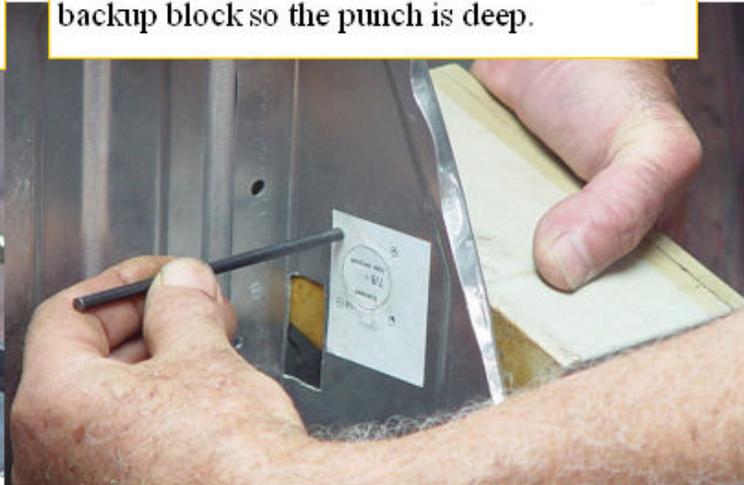
The fan board is screwed right on the side of the fan shroud. The fan wiring is cut and stripped. Connect the wiring as shown in the photo. Blue is positive, Black is ground.

## Mount the charger connector

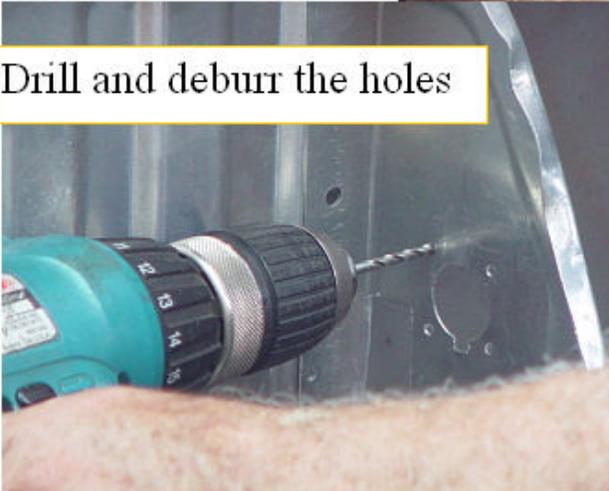
Put sticker/drill template on read IMA box wall



Punch exact positions for holes, with heavy backup block so the punch is deep.



Drill and deburr the holes



The charger main connector will be mounted on the inside of the right /rear of the IMA box. Mount the stick on drill template to the IMA box at the desired location. Have someone press against the opposite side of the box with a heavy backup block so the punches are deep and distinct. Drill the 4 screw holes, then the center where the 7/8 hole will be. Enlarge the center hole to 7/8" with the step drill, deburr and you are ready to mount bulkhead connector. If a more accessible connector is desired, extension cables will be available that will allow a duplicate bulkhead connector to be installed at a location you choose.

## Close the IPU (IMA) cover