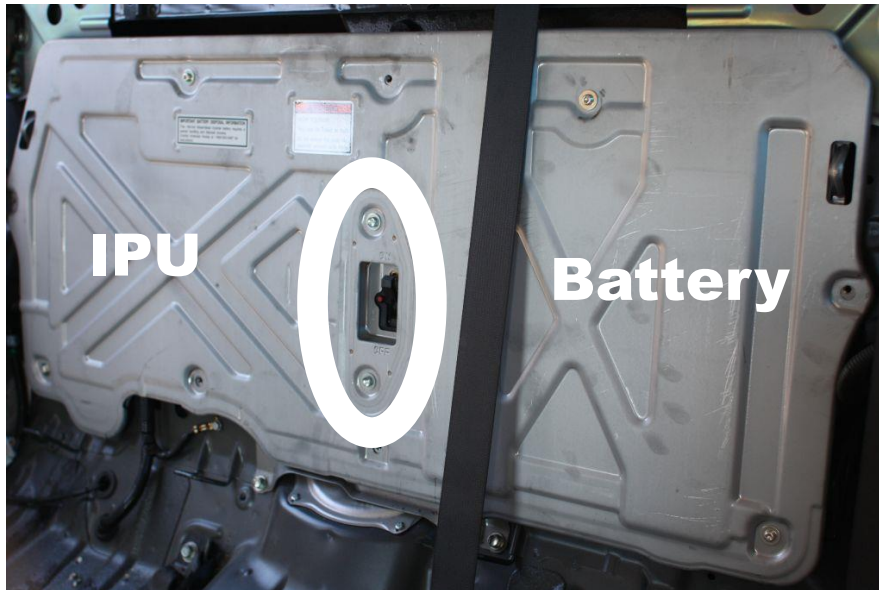
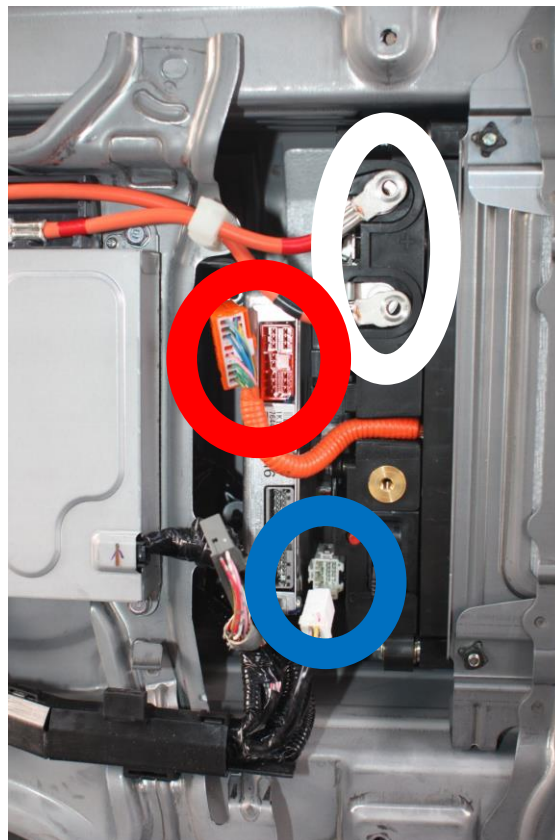


# Grid Charger Installation for 2006-2008 Honda Civic Hybrid

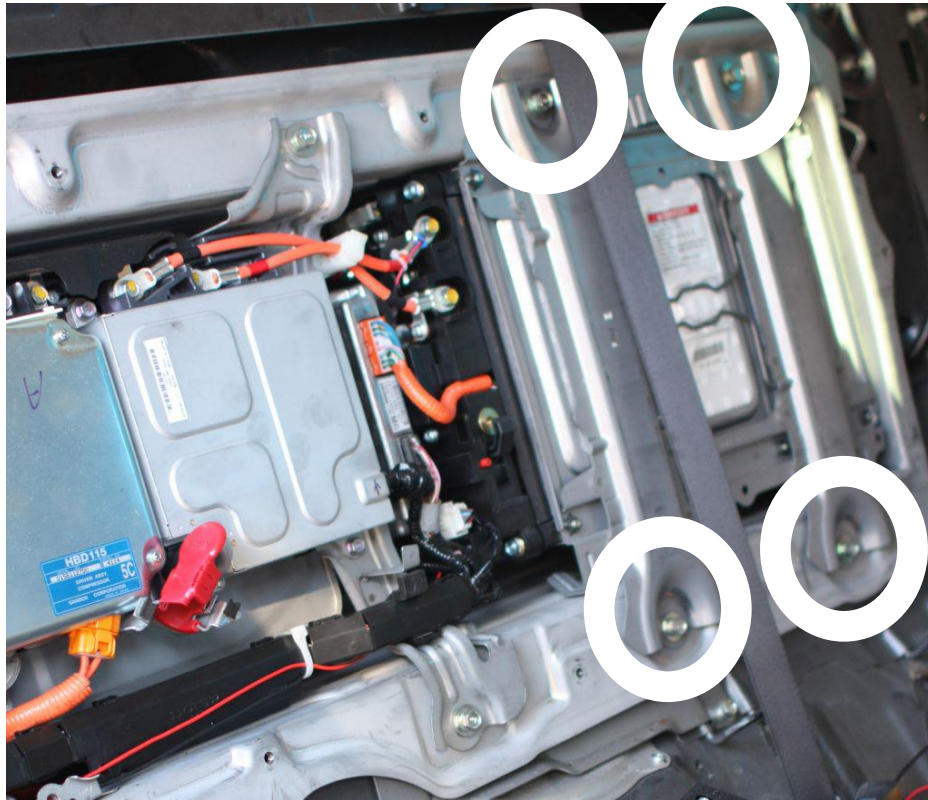
1. **Disconnect both of the front 12V battery leads.**
2. Remove the rear seat, including the bottom and back cushions (10mm bolts). The bottom cushions have retaining clips near the front. A bolt (or two) is in the seam between the back and bottom cushions.
3. Remove the IMA switch cover (T-30 torx bolts). The switch cover is removed in the picture.



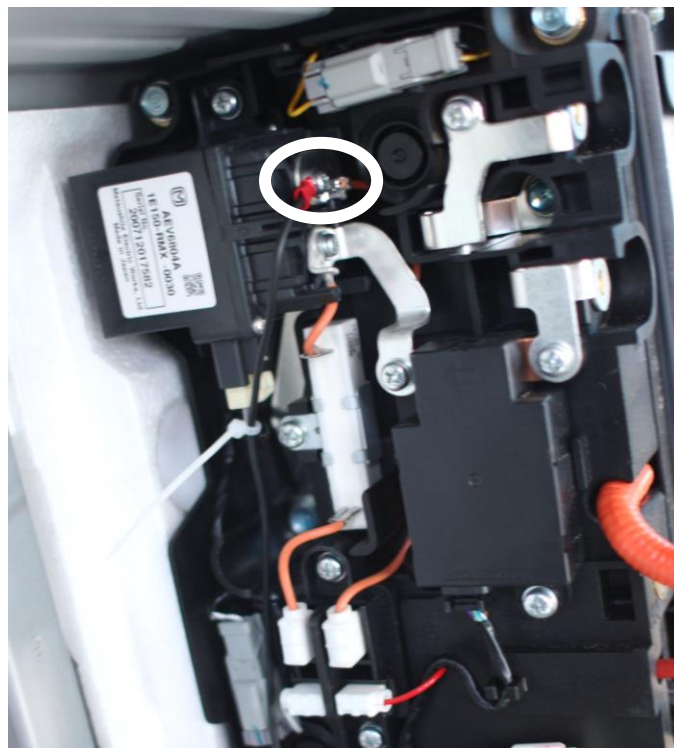
4. Switch to the **OFF** position and then remove the entire cover (T-30 torx bolts).
5. Measure the voltage with a DVOM. If it's less than 10V across the two large orange cables connected to the battery (white circle). If it's more, please consult RBbatteries before continuing. Remove the two 10mm bolts connecting the two orange cables (white circle). Then remove the orange connector that's plugged into the red housing (red circle). Also remove the white connector plugged into the grey housing (blue circle).



- Loosen the battery by removing the four 12mm bolts.



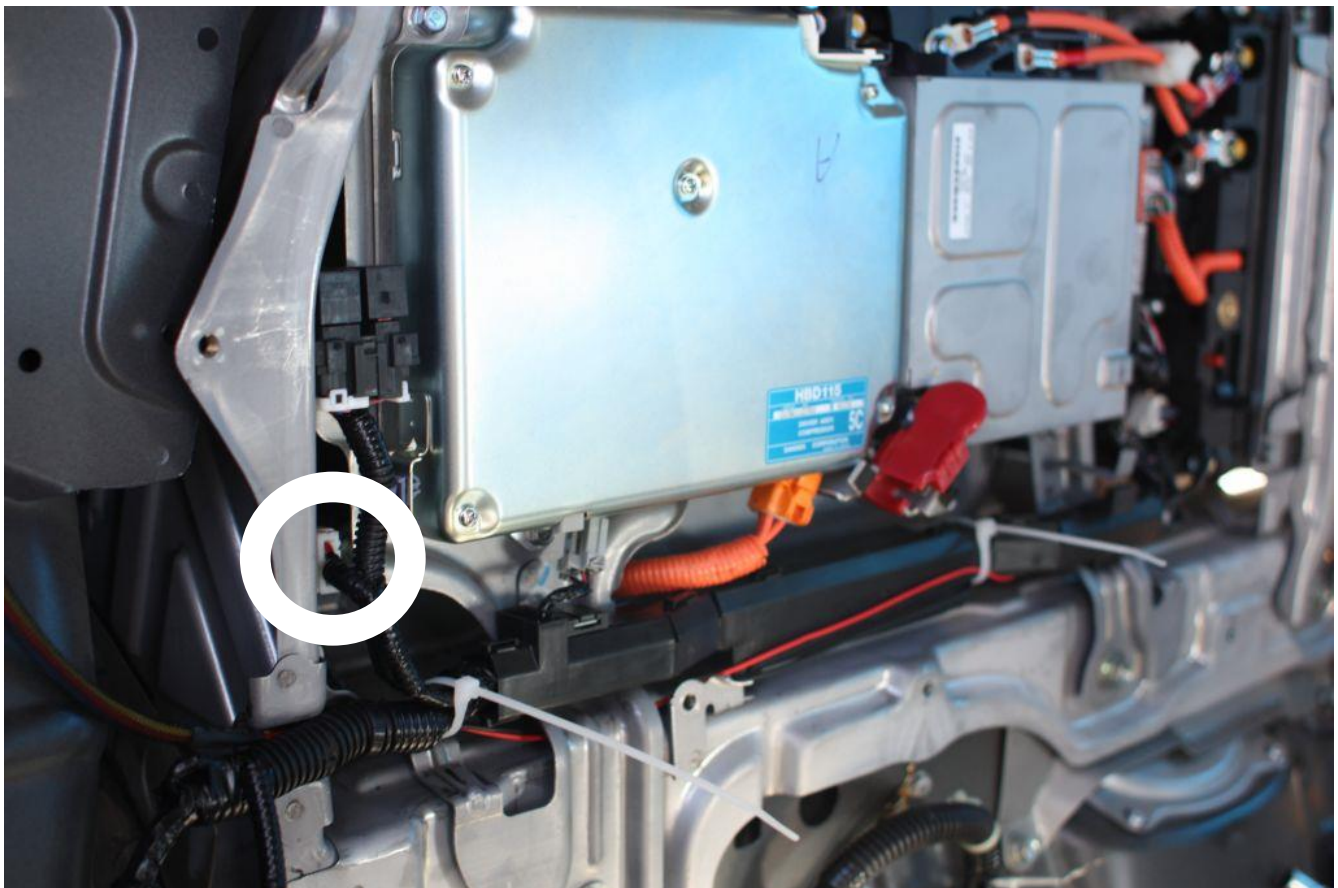
- Use the metal handles towards the center of the battery to pull out the left side of the battery. Only pull it out enough to gain access to the connections. The weight of the battery should rest on the car. It will “thump” down a bit when you start pulling on it.
- At the left side of the IMA battery, remove the phillips screw (circled in pic below) and connect the “IMA -” black wire with a #2 phillips screwdriver. **Be careful not to touch the screwdriver to any other metal parts while working. Wrapping the screw driver with electrical tape so only the very tip is exposed would be a good idea. Also don't touch anything yourself!!**



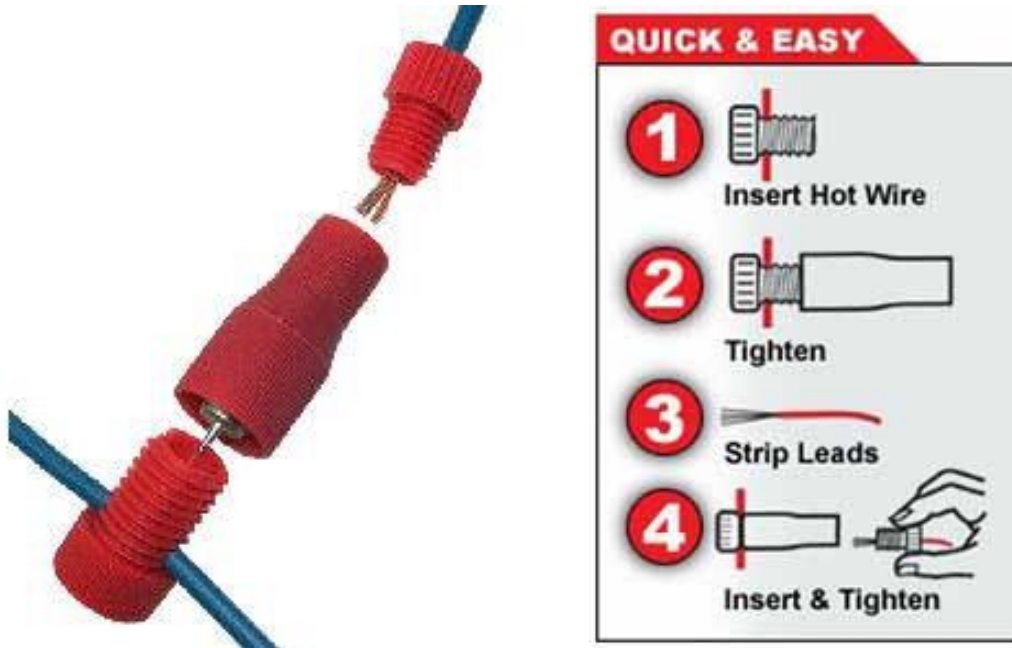
9. While looking at the top of the IMA battery, connect the red “IMA +” wire to the circled spot. Zip tie the wires so they don’t get pinched and out of the way of the battery. Reconnect the bottom negative orange cable and any other cables previously removed.



- 10.
11. Locate the IMA fan connector in the lower left of the compartment. Disconnect the connector and peel back the covering by about 2-3 inches. Run the other three wires and fan controller board to this area. Tuck the controller board where it will not contact anything. Run the white mating connector to the grid charger into the trunk.



- Using the Posi-tap connectors, connect the corresponding colors, **RED / BLACK / BLUE**, from the fan connector removed in step 3, to the wires from the RBbatteries fan controller board. 1. Unscrew the cap with a slot and slide it over the car's wire. 2. Then tighten to the side of the Posi-tap body with a pin sticking out. 3. Strip back a 1/2" of the three wires (they may already be stripped). 4. Then take the other cap and put it over those wires as shown below. While applying slight pressure, screw the cap into the Posi-tap body. Do this for each of the connections; **red, blue, and black**.



- Follow this guide in reverse to reassemble, but don't install the seats or IMA switch cover.
- Plug in the grid charger to the now installed vehicle harness, connect to an AC outlet (and switch on), and **ensure the car IMA fan turns on**. The voltage display will show a really high value of 200V+ (usually 200V-230V). Flip the IMA safety switch on and you should see the voltage drop to your pack's voltage, 140V-170V typically. If those two things happen, you're good to go! **Flip the IMA safety switch back off**. Remove the AC power from the charger and remove the charger from the vehicle harness.
- If everything is working, reassemble the IMA switch cover, and seats (remember to switch the IMA safety back on during step 4).

## **DANGER HIGH VOLTAGE!!**

**\*\*\*RBbatteries is not responsible for misuse or failure of the products. By installing this device you are accepting any and all responsibility\*\*\***

**This is enough power to hurt you, be careful! Have questions? Contact me by eBay or [RBbatteries@gmail.com](mailto:RBbatteries@gmail.com).**