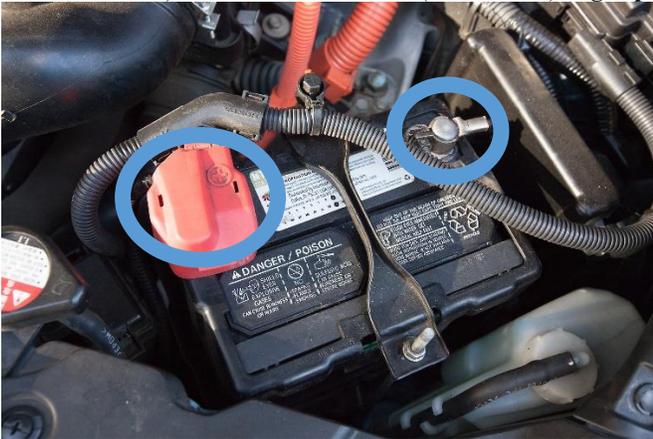


Grid Charger Installation for 2009-2011 Honda Civic Hybrid

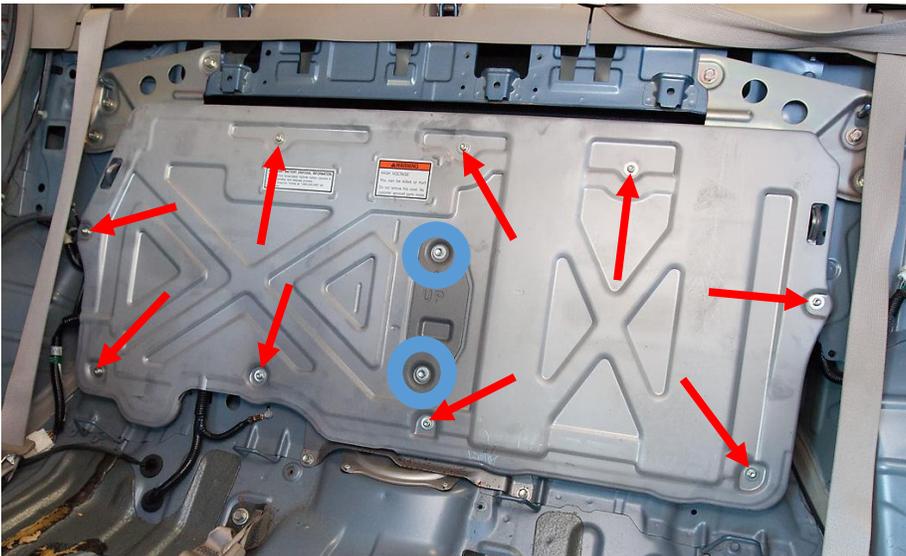
Tools needed:

12mm Socket
10mm Socket
T30 Torx Driver
#2 Phillips Screwdriver
Multi-meter

1. **Disconnect both of the front 12V battery leads, left picture below.**
2. Remove the rear seat bottom cushion, underneath there are two front clips that hold the front of the cushion (red circles) and three 10mm bolts (blue circles), right picture below.

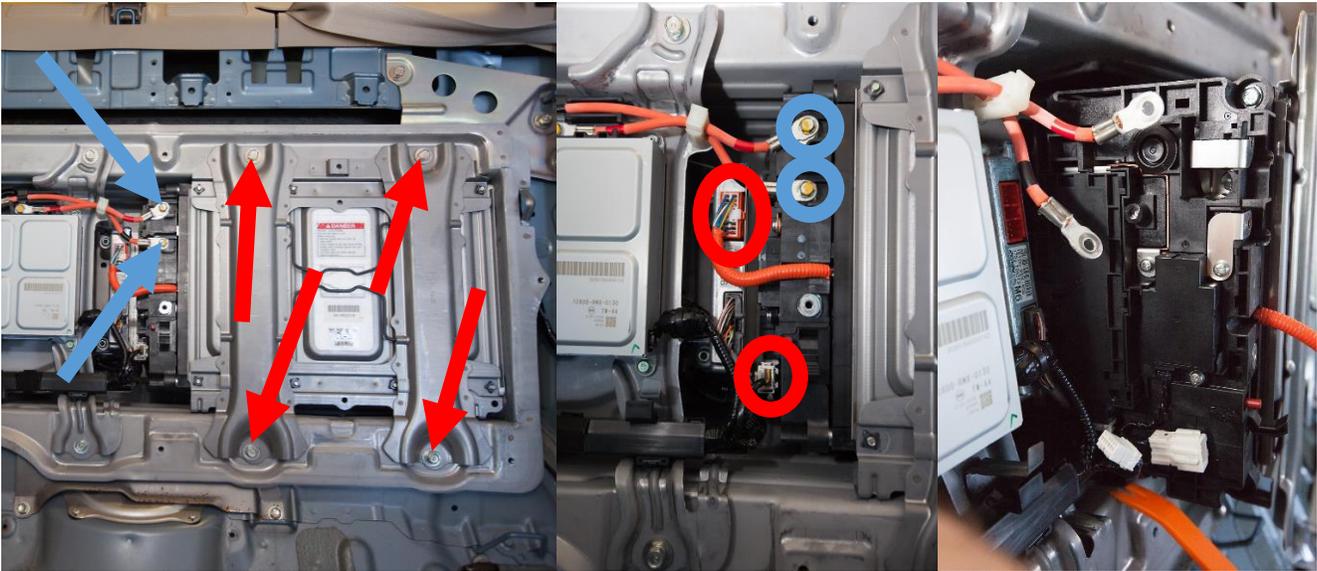


3. Remove the IMA switch cover plate, two T30 bolts (blue circles), left picture below.
4. Under the cover, switch to **OFF** (red arrow). Remove the 10mm bolt above the switch (blue circle), right picture below.

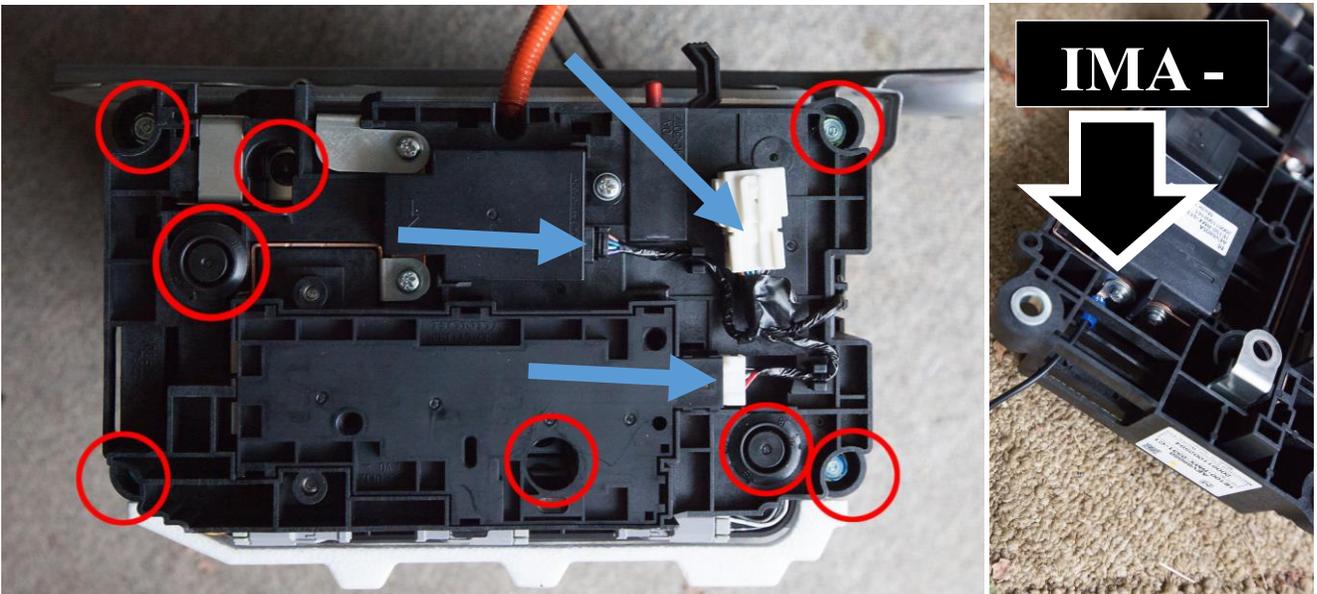


5. Remove the IMA cover, nine T30 bolts (red arrows), left picture above.

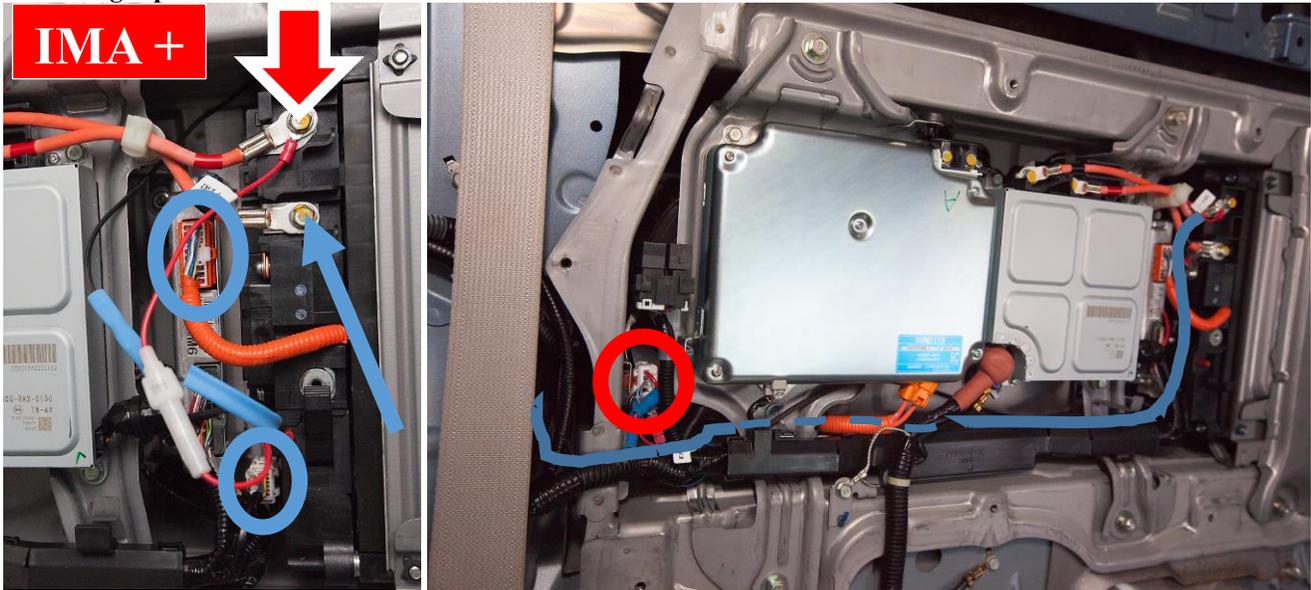
6. Once the cover is removed, carefully **(DO NOT touch anything with your hand)** measure the DC voltage with a multi-meter across the two large orange cables (blue arrows), **left picture**. If it's less than 10V continue, if it's more, please consult RBbatteries before continuing.
7. Remove the four 12mm bolts (red arrows), **left picture**.
8. Remove the two 10mm bolts holding down the orange cables (blue circles), orange connector and white connector (red circles), **middle picture**.
9. **Right picture** shows everything disconnected and partially pulled out. Pull the battery out of the car for the next few steps.



10. Remove the eight 19mm bolts, two under covers, (red circles), **left picture**.
11. Remove the harness connectors (blue arrows), **left picture**.
12. Remove and flip over the cover and remove the Phillips screw and attach the IMA – ring terminal as shown, **right picture**.

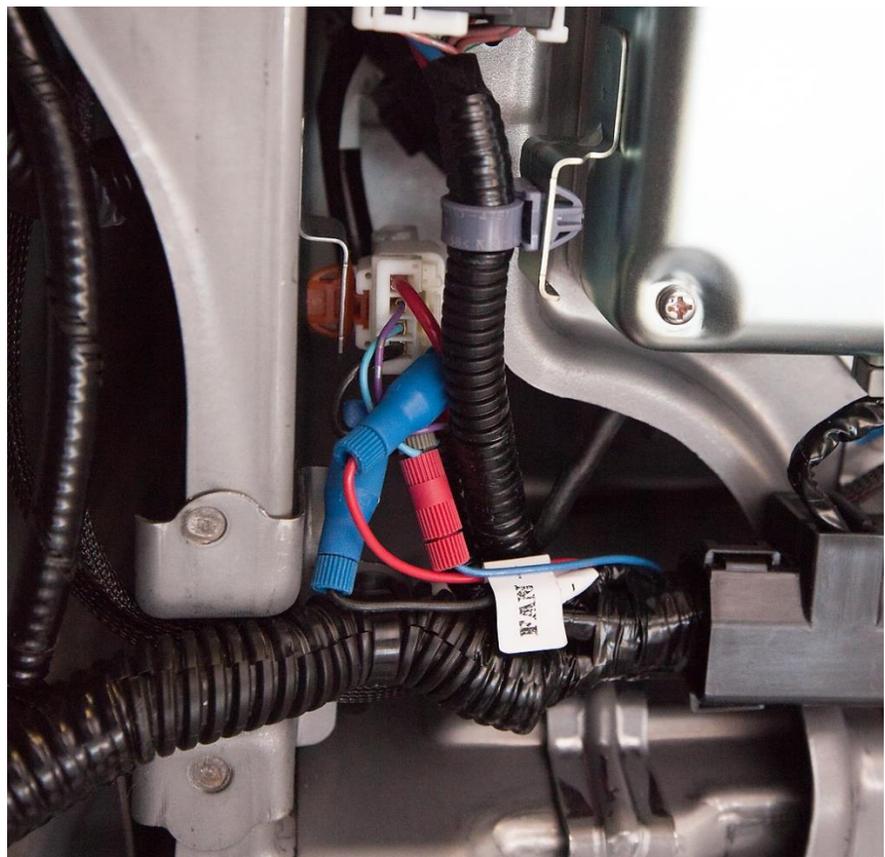
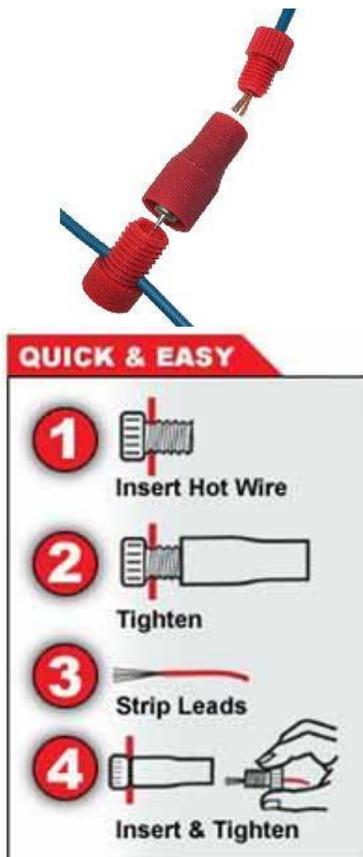


13. Install the battery pack back into the car.
14. Attach the **IMA +** on to the upper orange cable 10mm bolt and reconnect, also reconnect the other orange cable with a 10mm bolt (blue arrow), **left picture**.
15. Reconnect the orange and white connectors (blue circles), **left picture**.
16. Run the vehicle harness along the path shown and into the trunk. Make sure there are no pinch points (blue line), **right picture**.



17. Remove the IMA cooling fan connector (red circle), **right picture above**.
18. Peel back the black loom 3-4 inches to make room for the Posi-tap connectors.
19. Using the Posi-Tap connectors, connect the wires from the vehicle harness fan connections to the wires in the car fan connector. Use the following table to make the correct connections, **picture below**.

Posi-Tap Connector	RB Fan Controller Wire Color	Car Fan Harness Wire Color
Large	Red	Large Red
Small	Blue	Small Blue
Large	Black	Large Black



20. Reconnect the car fan connector.
21. A. Now you need to test the charger before assembling everything back up. 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.
B. **Simple Charger** - The voltage display will show a really high value of 200V+ (usually 200V-230V).
C. **CDC Charger** - If you have the CDC charger, go to the Diag page and observe the voltage. It should read less than 10V.
D. Flip the IMA safety switch on and you should see the voltage go to your pack voltage, 160V-180V 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.
22. If everything is working, follow this guide in reverse to reassemble (**remember to flip the IMA safety switch 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.