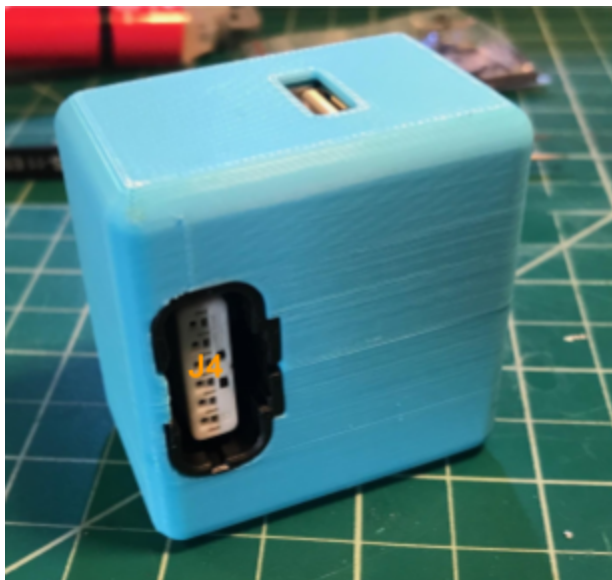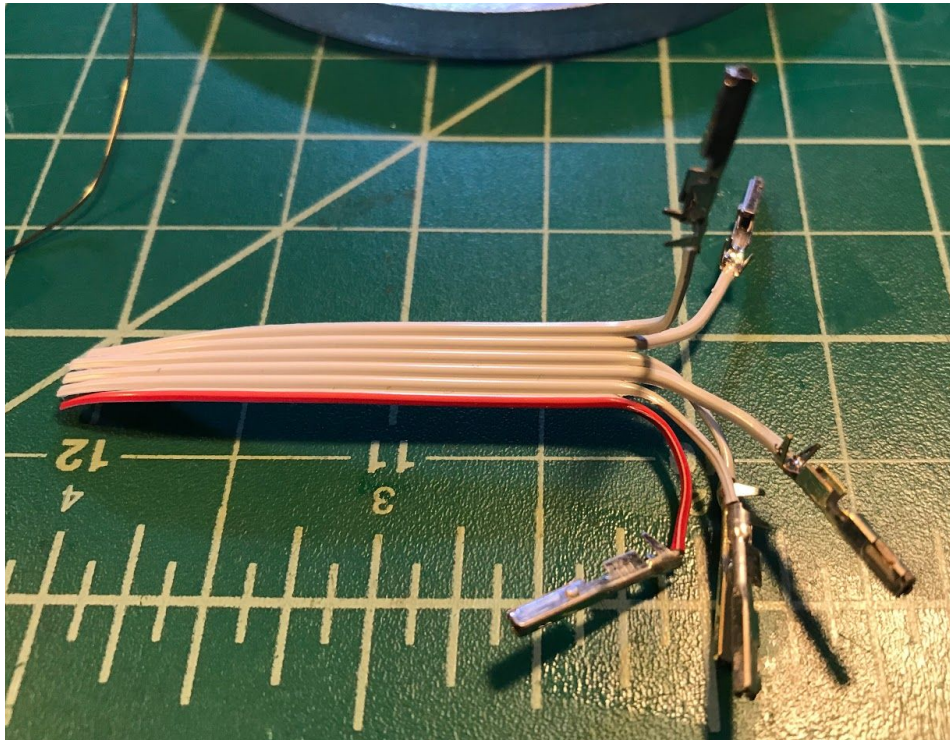# comma pedal build guide

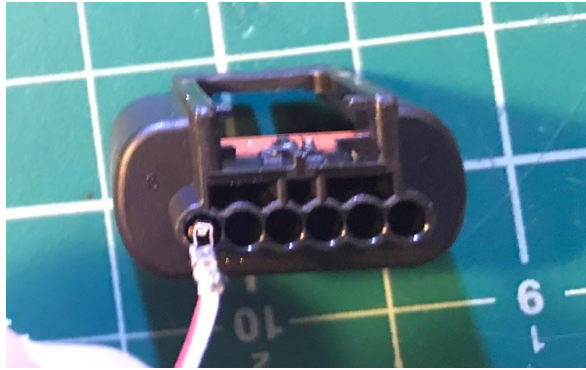1. Cut the tab off of J4. Snip on the red line.

2. Cut ~3.5" of cable to use on the pins of J4. IDE cable is recommended.
3. Strip, tin, and solder the wires to the J4 pins that come with the plastic housing from Aliexpress (sockets)

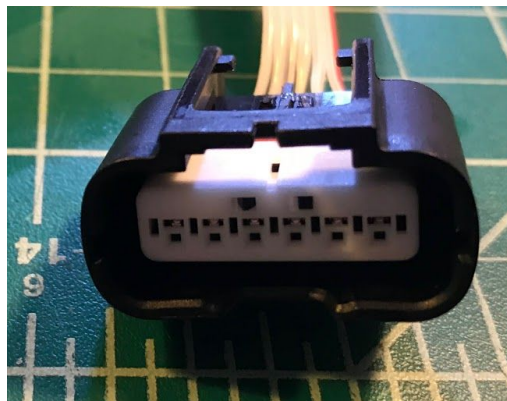4. Use a pair of needle nose pliers to crimp down the flanges on the J4 connectors

5. Insert the pins into J4

6. They should look like this when done

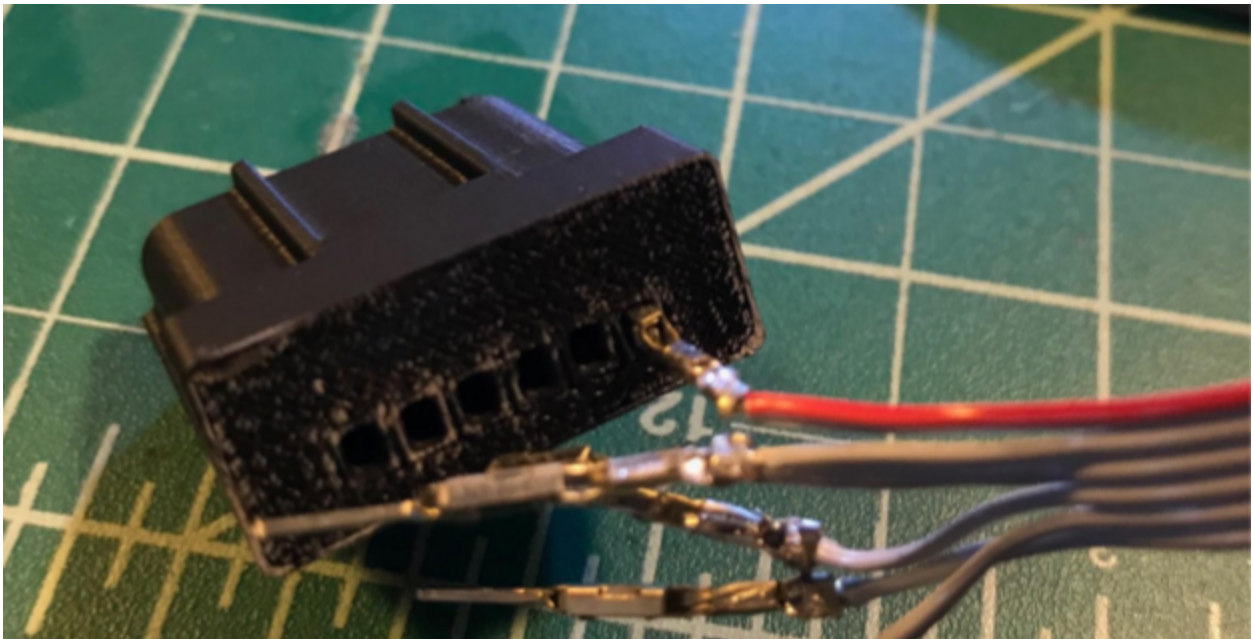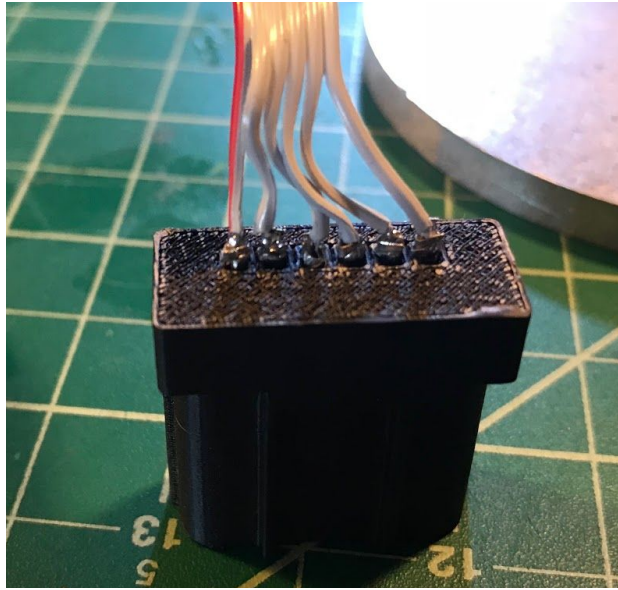7. Place the included white plastic piece over the pins

8. Cut ~3.5" of cable to use on the pins of J5. IDE cable is recommended.
9. Strip, tin, and solder the wires to the J5 pins that come with the plastic housing from Aliexpress (plugs)
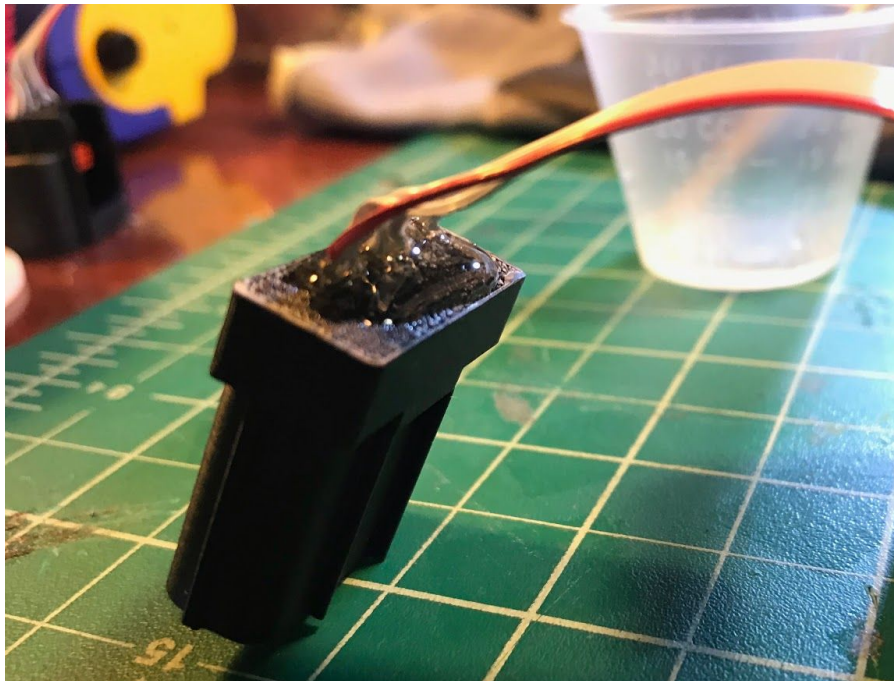

10. Insert the pins into J5

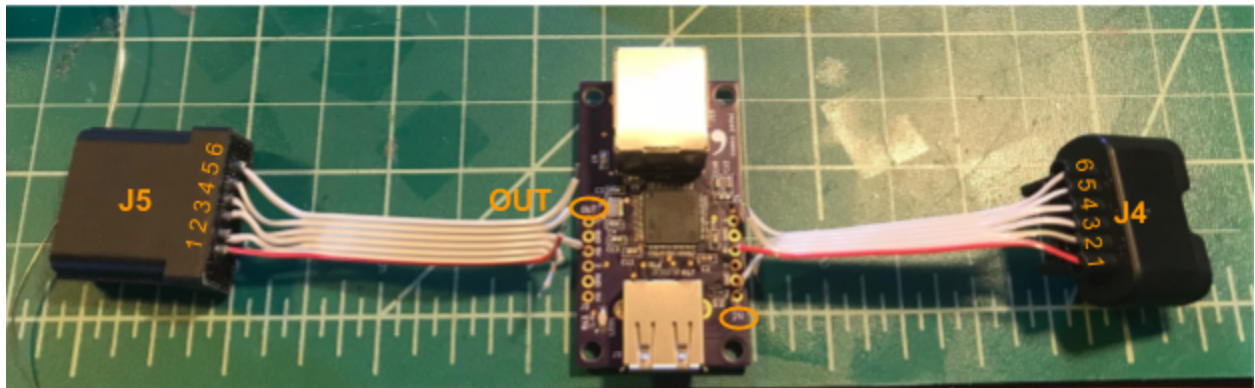11. It should look like this when done. The pins should stick out slightly.

12. Seal the ends of the pins with a 2 part epoxy (like this)

13. Ensure the epoxy stays on the flat part of J5 and does not drip down the sides. This will impact the fit into the case.
14. Solder J4 to the 6 holes labeled "IN" and J5 to the 6 pins holes labeled "OUT". J4 wires should be soldered to the top side of the board and J5 wires should be soldered to the bottom side of the board.
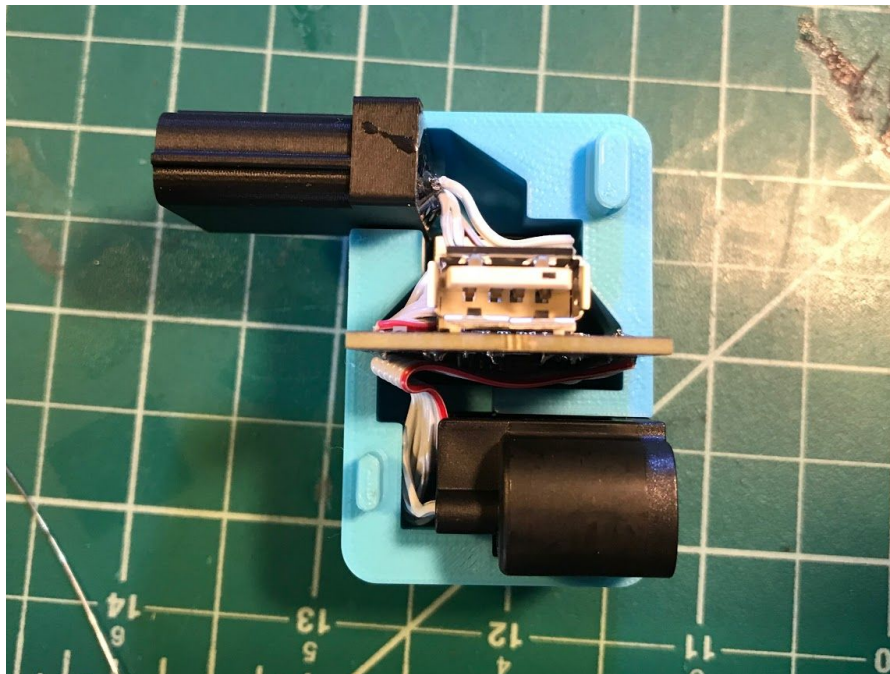
15. Ensure that the wires for both J4 and J5 correspond to following labels on the PCB:
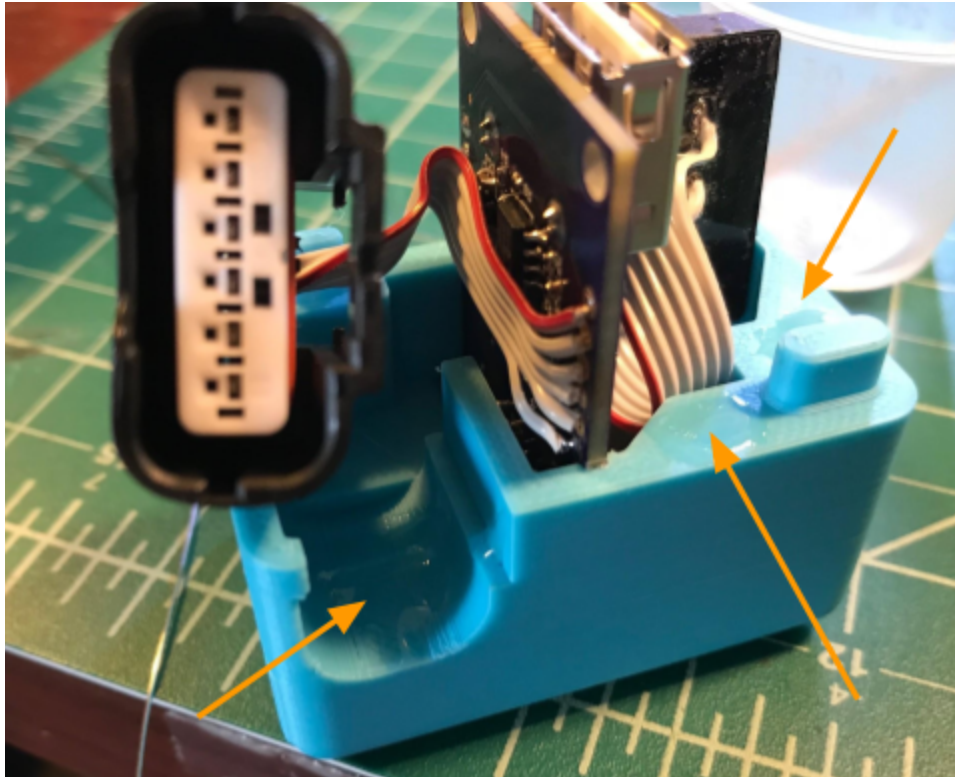   1 - 5V
    2 - GND
    3 - 2
    4 - 5V
    5 - GND
    6 - 1

16. Check that the connectors and PCB fit together in one side of the case. Bend the cables into the cavities of the case so that it will correctly close

17. NOTE: make sure you have flashed and tested your PCB before gluing it inside of the case. Epoxy is really strong!

18. Put epoxy on the indicated positions of the case

19. Place more epoxy on the same points on the other side of the case
20. Slide the other side of the case on and clamp in a vice while it dries
21. Wipe off any epoxy that seeps out of the case with a paper towel with alcohol on it
22. Enjoy!