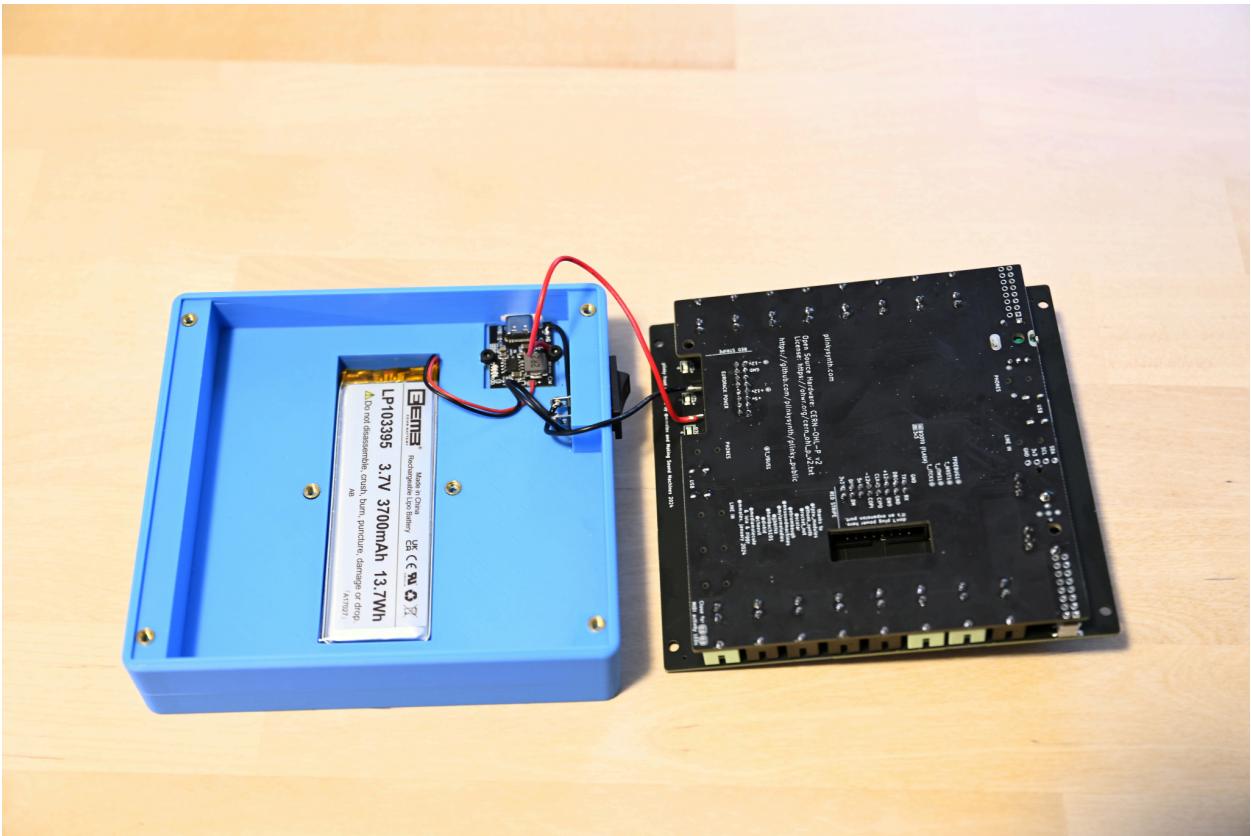


# Plinky case instructions

1. Gather all parts and print the case
2. Heat-set all the inserts into the case with a soldering iron (there's a special tip for this but a normal one can work). The 4x M3s go in the corners, the 3x M2.5s go where the battery board goes.
3. Make two wires, one red one black, by crimping a female Dupont end on to a wire about 4" long. Don't put the shroud on the connector. Leave the other end free
4. Solder the free end of the red wire to where it says "5V +" on the battery board
5. Solder the free end of the black wire to one terminal of the switch
6. Make another black wire by stripping both ends of a piece of wire about 4" long and soldering one end to the "5V -" port on the battery board. Leave the other end free
7. Clip the battery connector off the battery, being careful to only clip one wire at a time (or it will short!). Clip as close to the connector as you can; you can't add more wire to the battery
8. Solder the battery wires to the battery board, black to "-" and red to "+"
9. At this point you should have three pieces:
  - a. A case with threaded inserts in it
  - b. A battery board and battery connected together, with a red (dupont) wire and a black (free) wire hanging off
  - c. The switch, with a single black (dupont) wire hanging off
10. Put the battery into the case. If you want to secure it with tape you can, but there's not much room for it to shift anyway
11. Carefully hold the battery board in place with the screws. Check that you can plug a USB C cable from outside and that this makes lights on the board come on
12. Put the switch into the case
13. Take the free-end black wire from the battery board and solder it to other terminal of the switch. Make sure the switch is turned OFF!
14. Carefully connect the two dupont connectors to the +5V and GND labeled connections on the Plinky. Both rows of the connector are the same, it doesn't matter which you connect to.

At this point, your assembly should look like this:



15. Flip the switch and the plinky should come on, with LEDs
16. Turn the switch off again and place the Plinky into the case. It may take some wiggling and poking to get all the wires in
17. Screw in the four corner screws and enjoy your battery-powered Plinky!