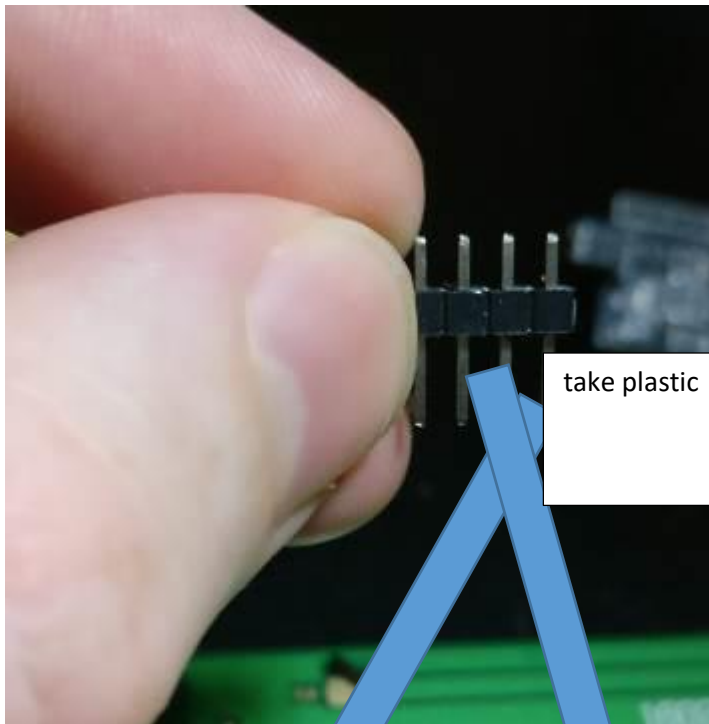
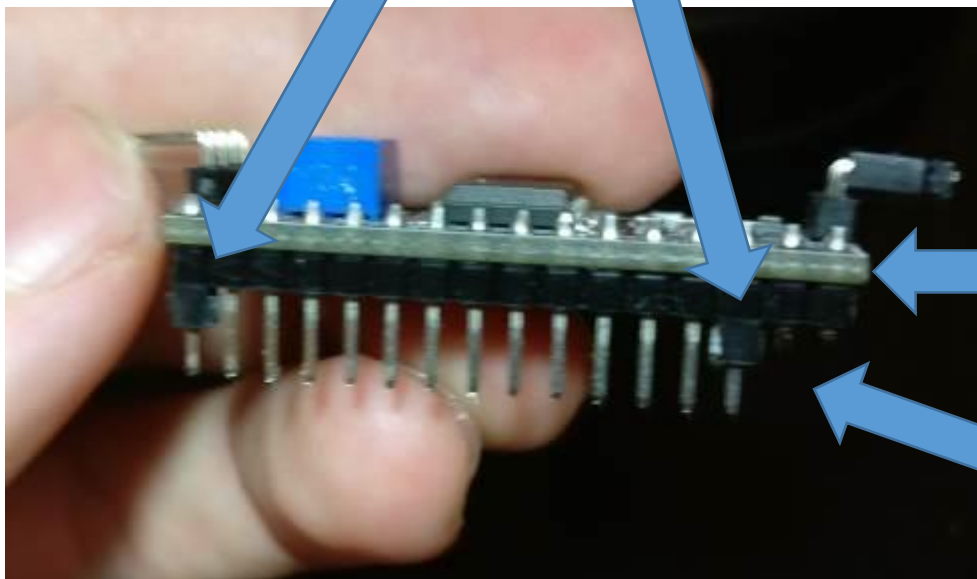


# Screen Assembly



take plastic



File/sand circuit board here

Cut 2 pins, make sure correct end!

I find this helps hold the backpack module flat,

Remove after soldering

I also remove QC sticker from back of screen



Make sure everything is sitting right before soldering, I solder with the contacts away from me on a slight angle

Reaching over the screen.

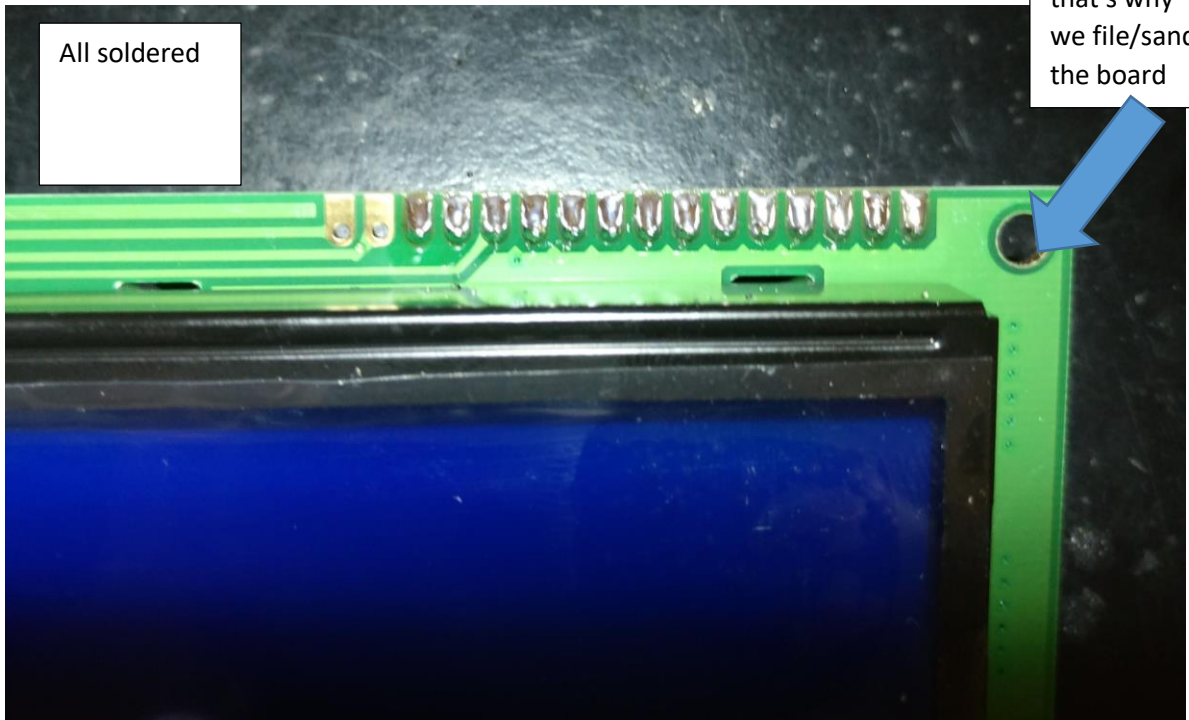


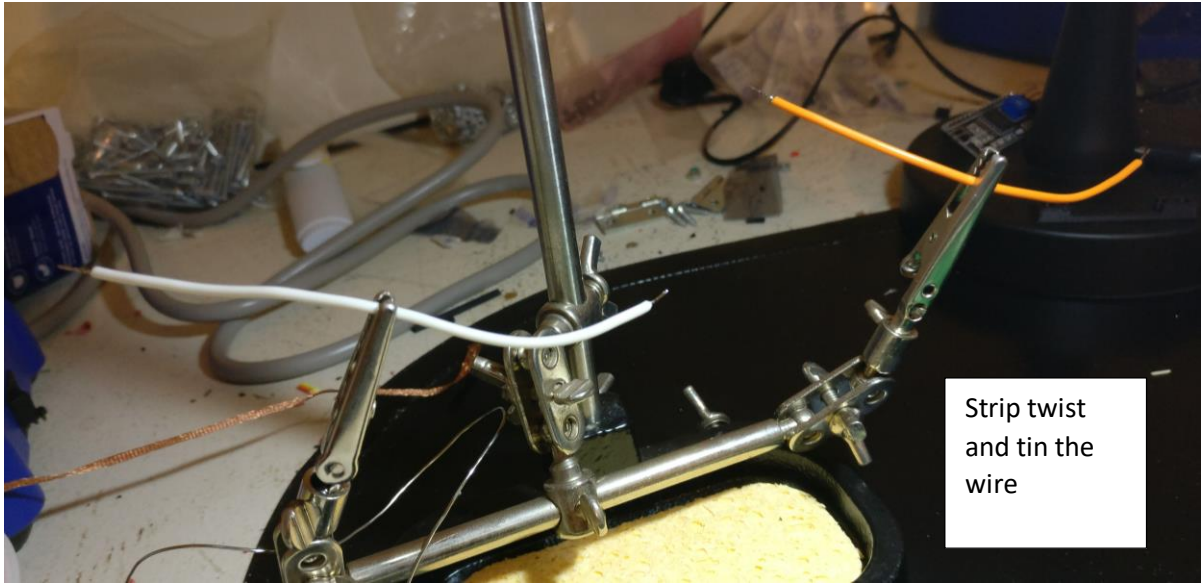
The temp im using degrees Celsius



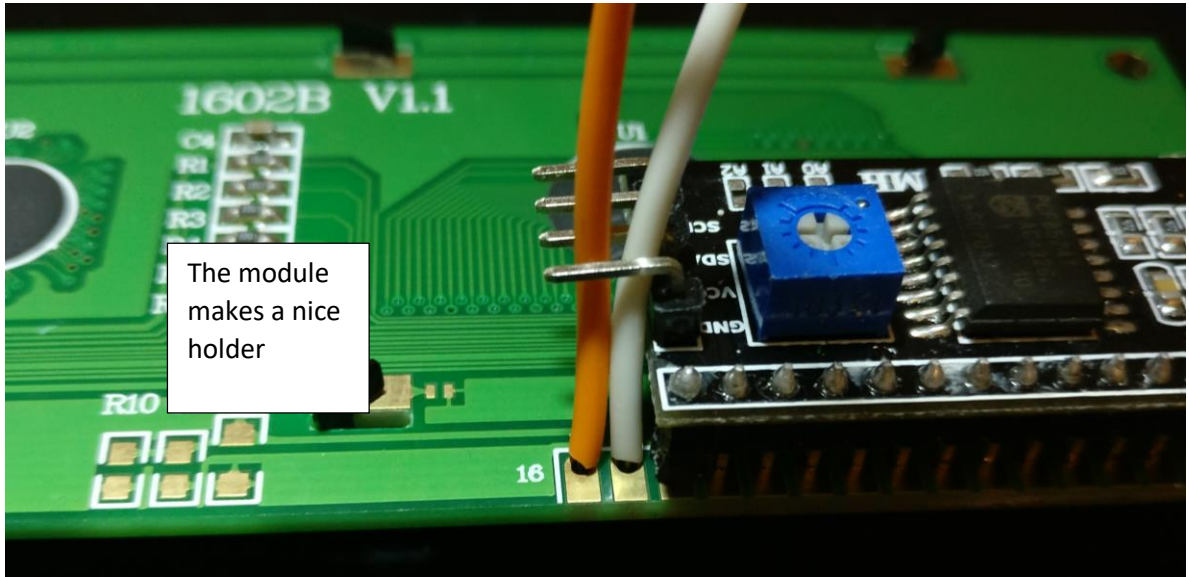
Through this hole is the circuit board very close that's why we file/sand the board

All soldered

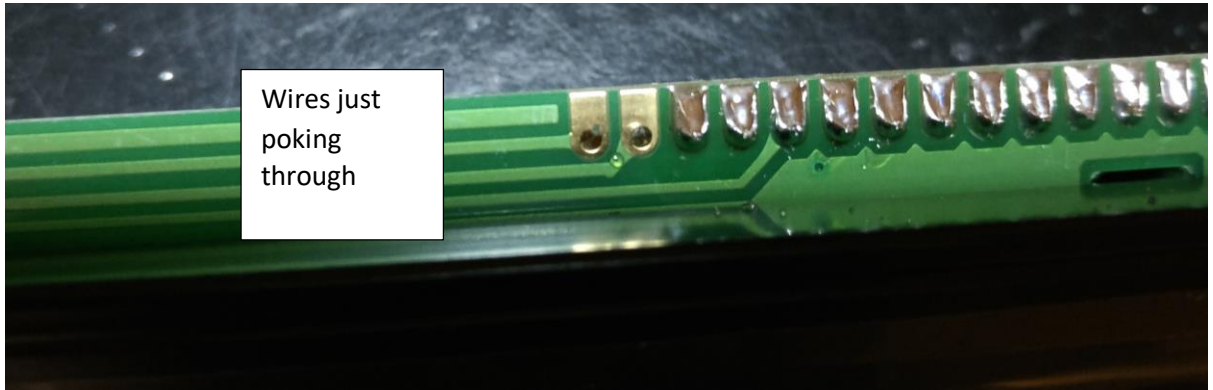




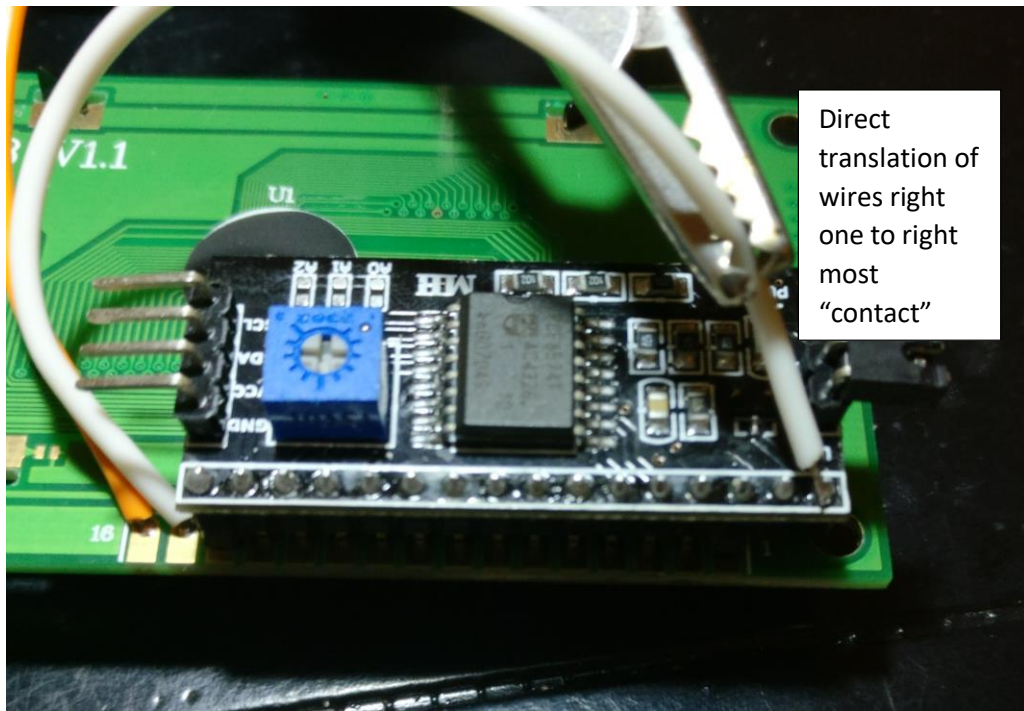
Strip twist and tin the wire



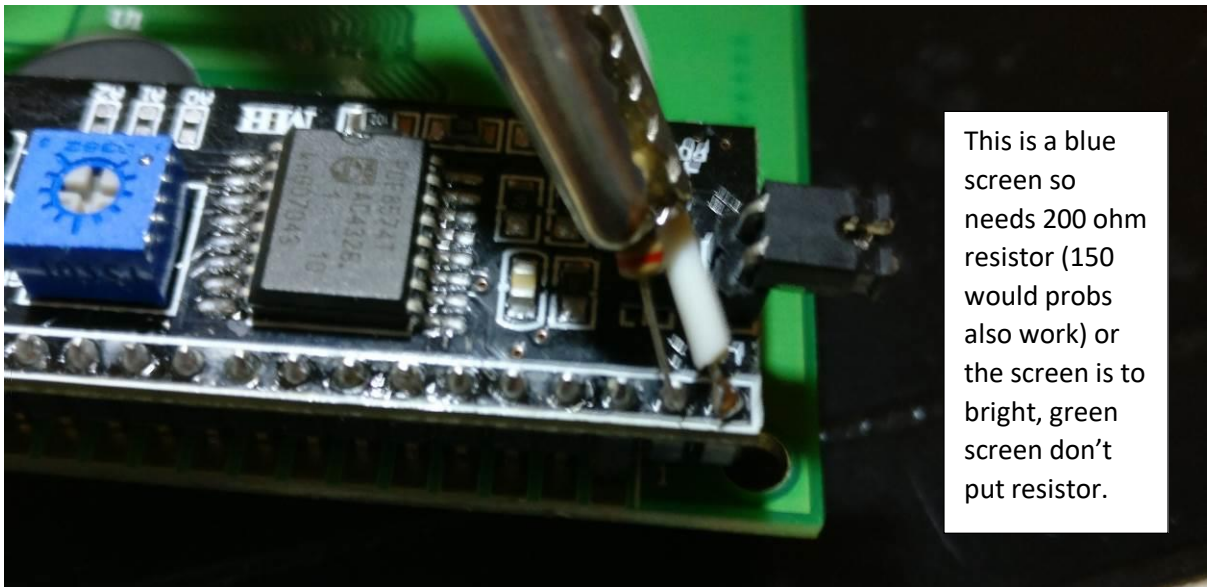
The module makes a nice holder



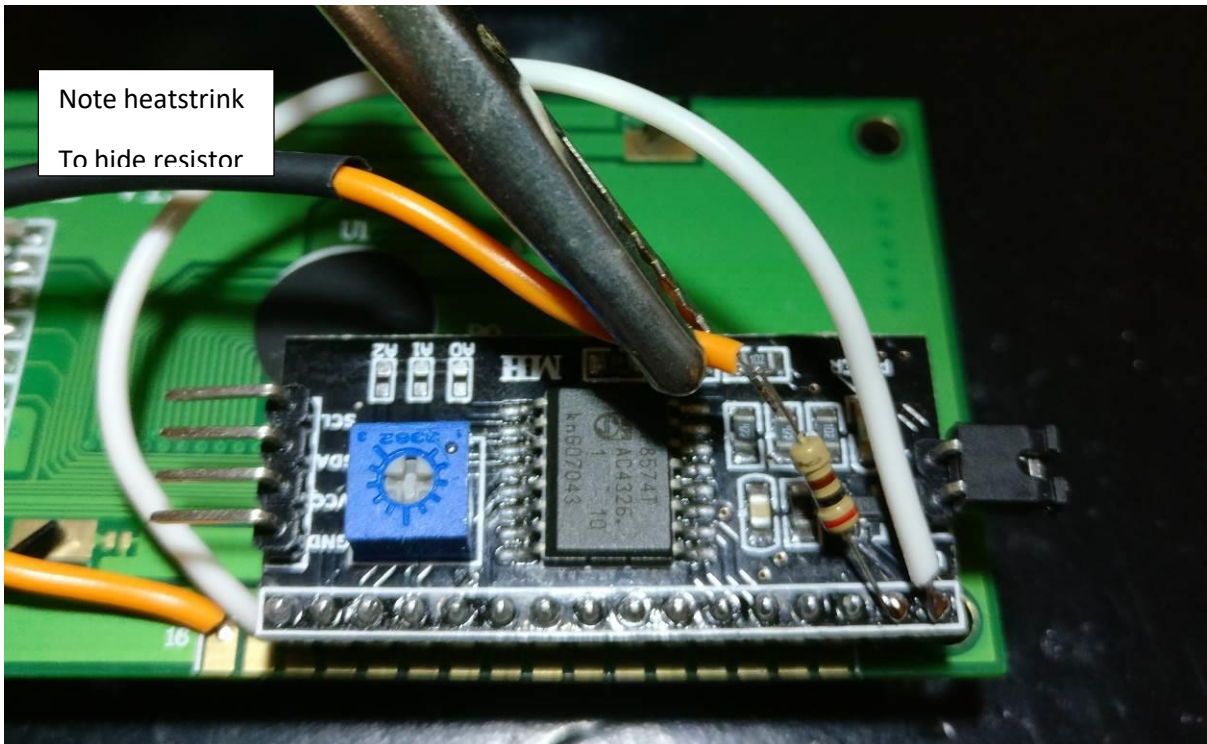
Wires just poking through



Direct translation of wires right one to right most "contact"



This is a blue screen so needs 200 ohm resistor (150 would probs also work) or the screen is to bright, green screen don't put resistor.

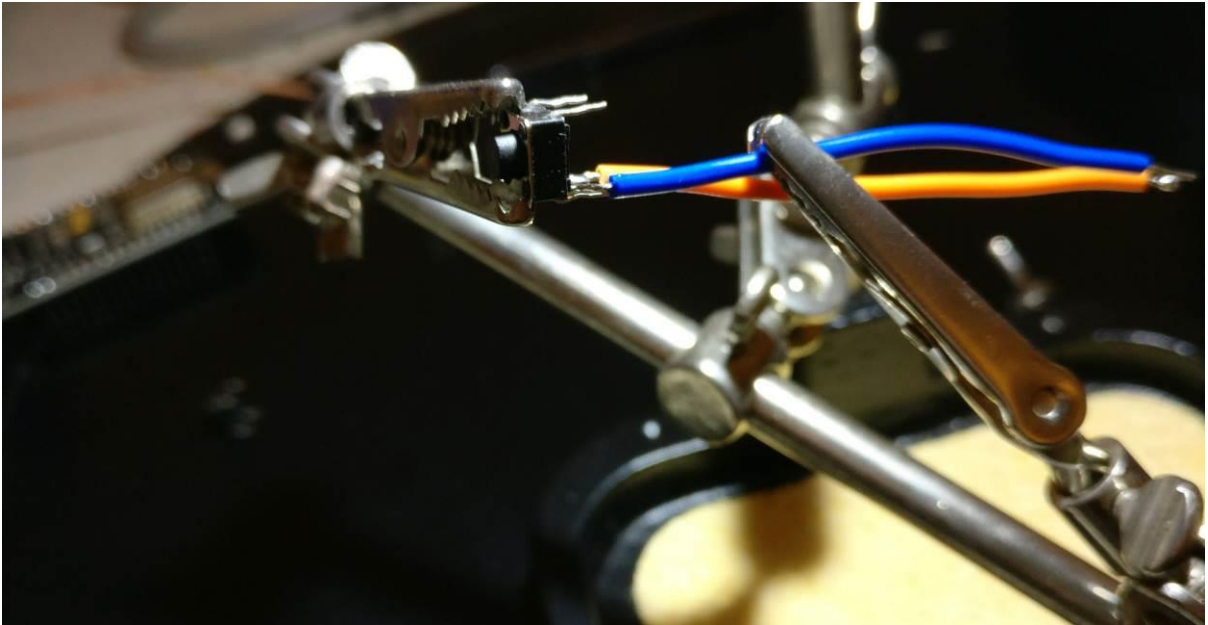


Note heatstink  
To hide resistor

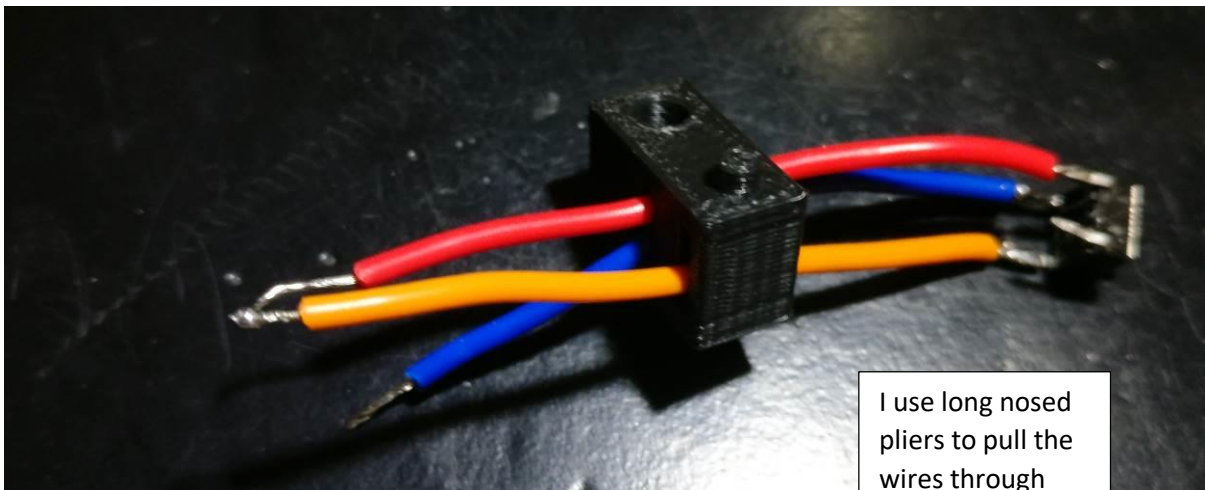
## Button Box

Tin Strip and twist 3 wires about  $\frac{1}{2}$  the length of the backlight wires that we did before.

Grab a button and squash his bent legs flat.

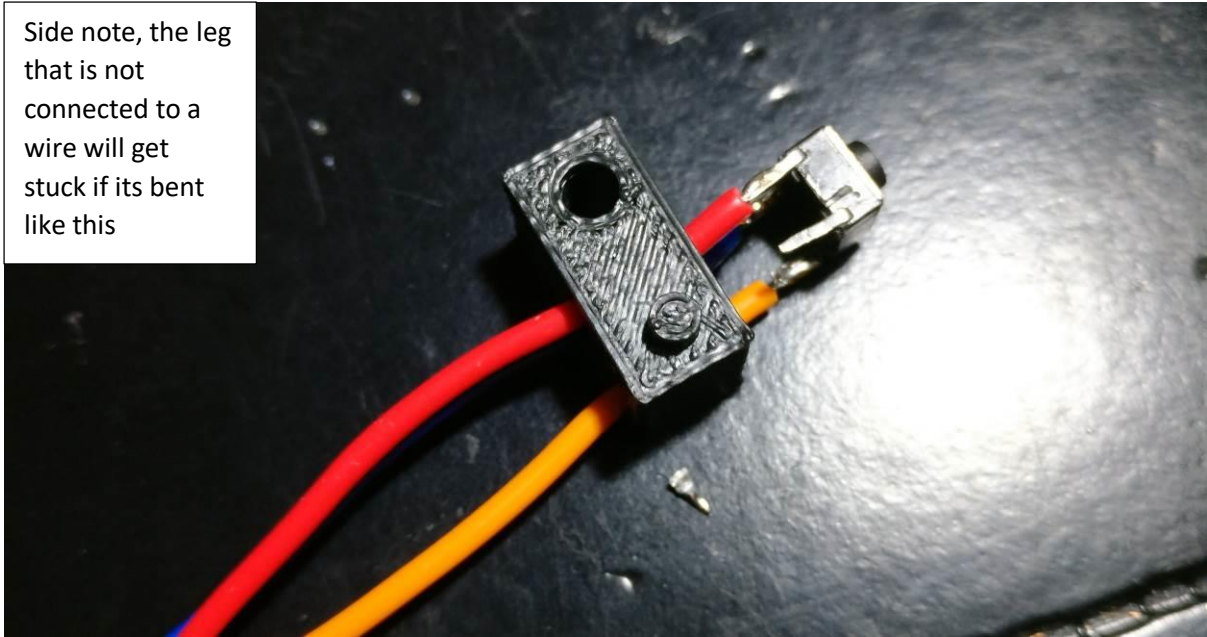


Make sure you put the wires on the inside of the legs, the legs that curve in at the top are the same they will go to D8 and ground, the 3<sup>rd</sup> wire that is not connected (unless the button is pressed will go to 3v)



I use long nosed pliers to pull the wires through the button box

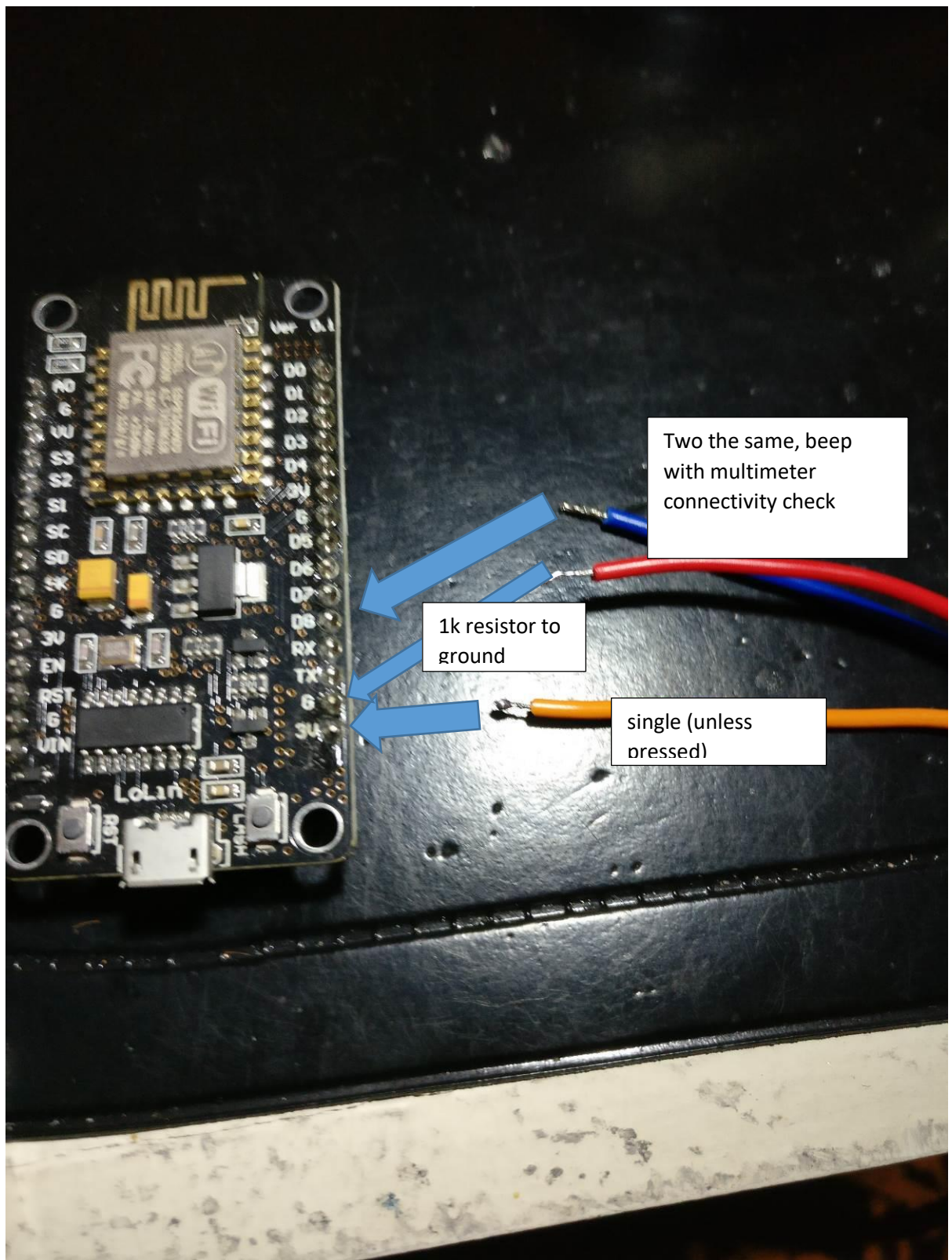
Side note, the leg that is not connected to a wire will get stuck if its bent like this

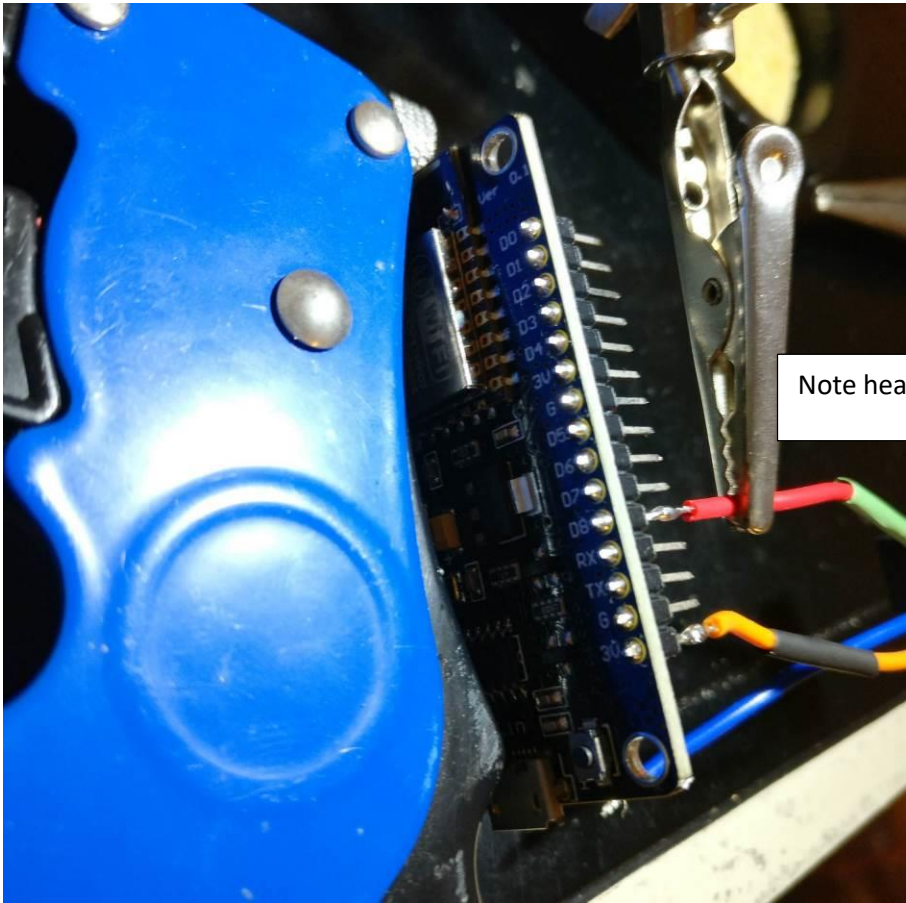


Bend it out slightly too far

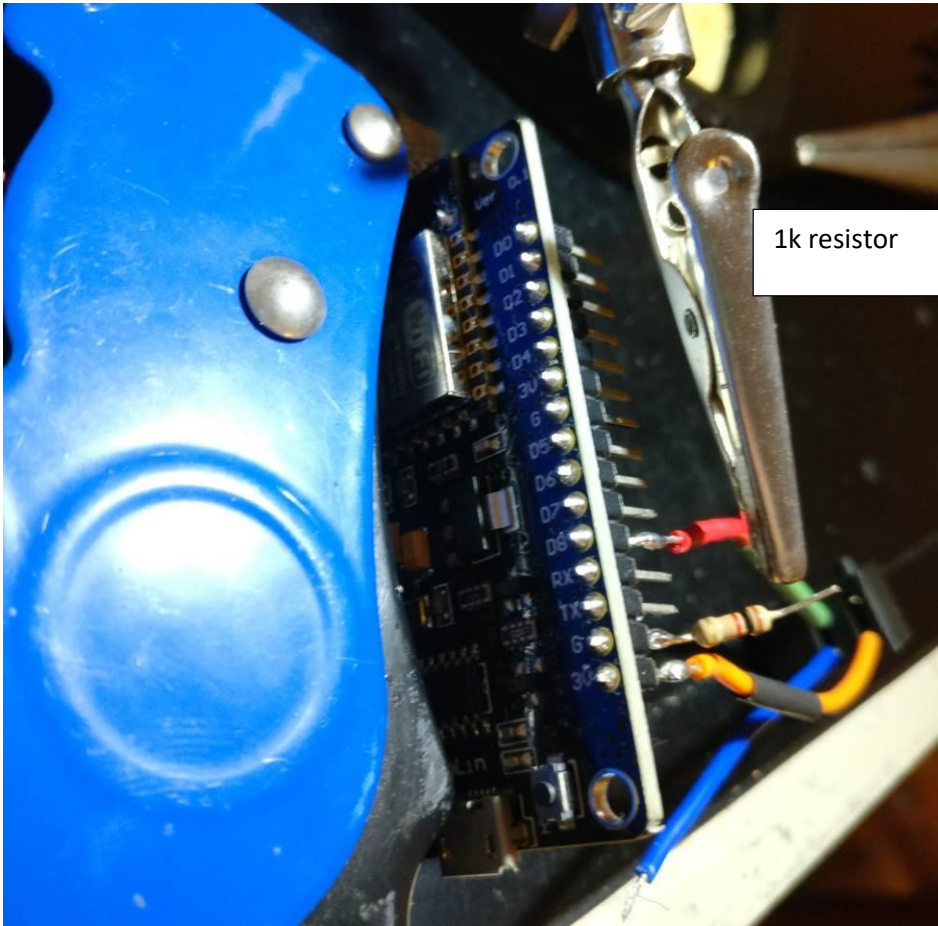


Main Assembly

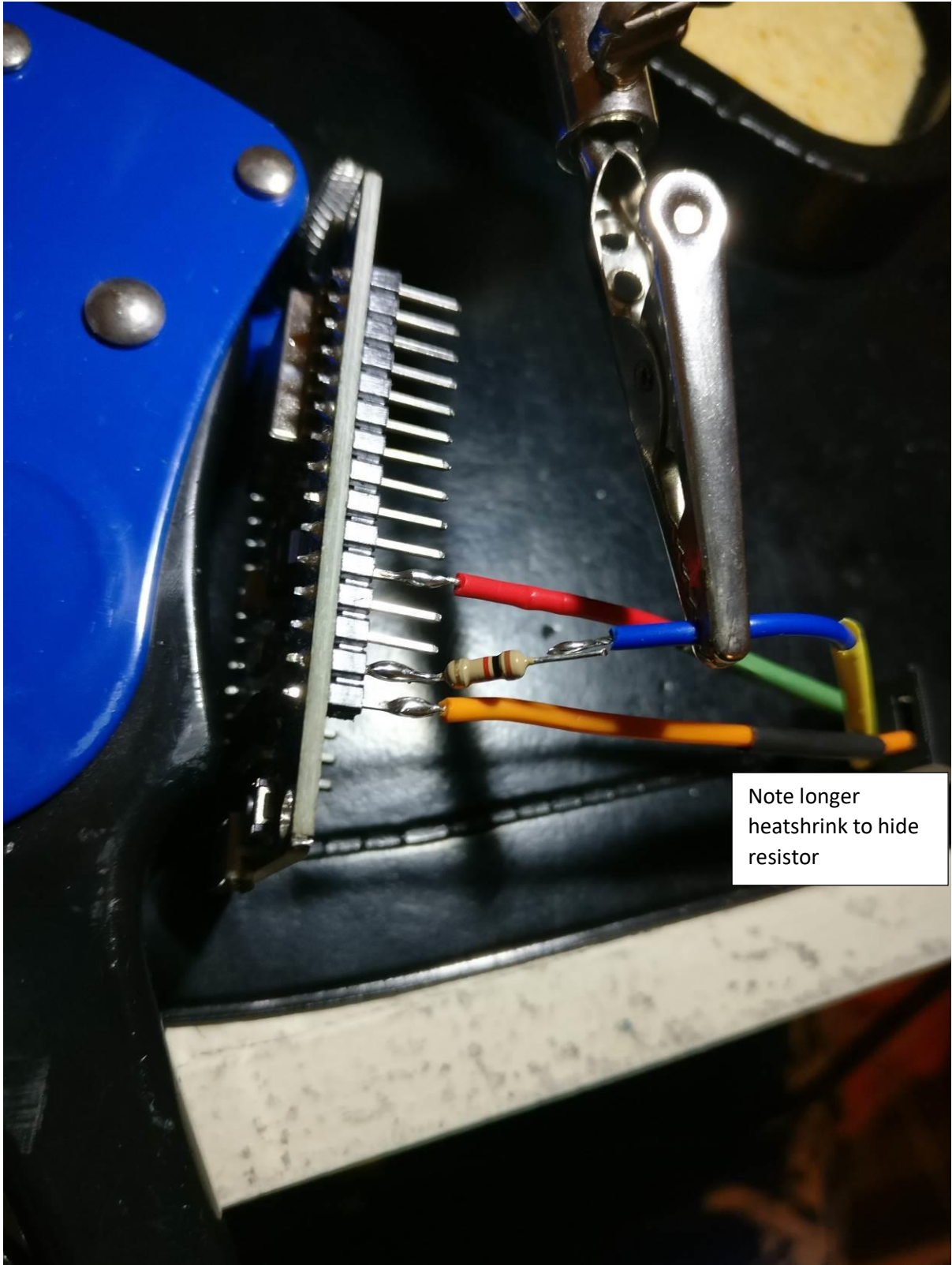




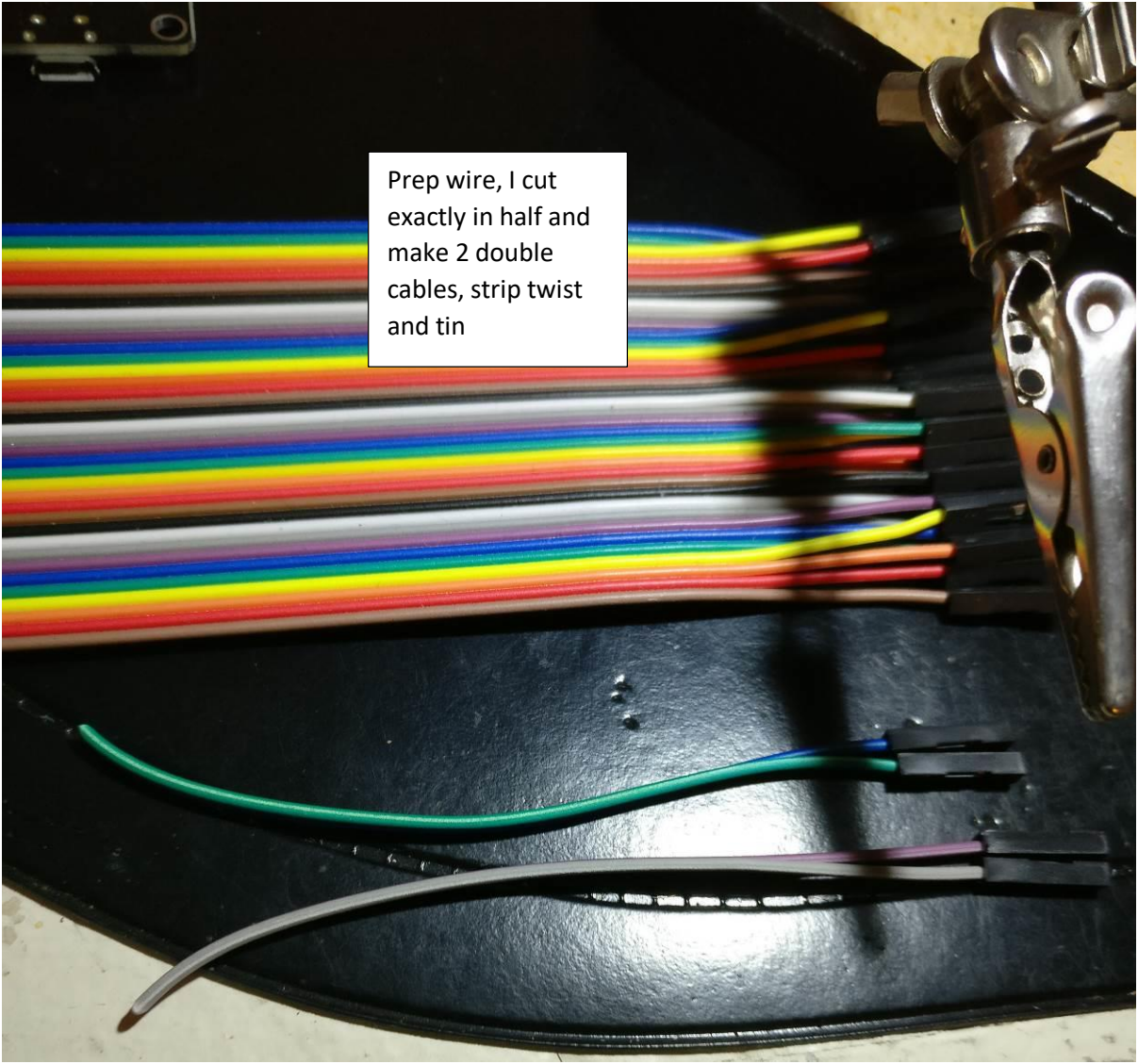
Note heatshrink

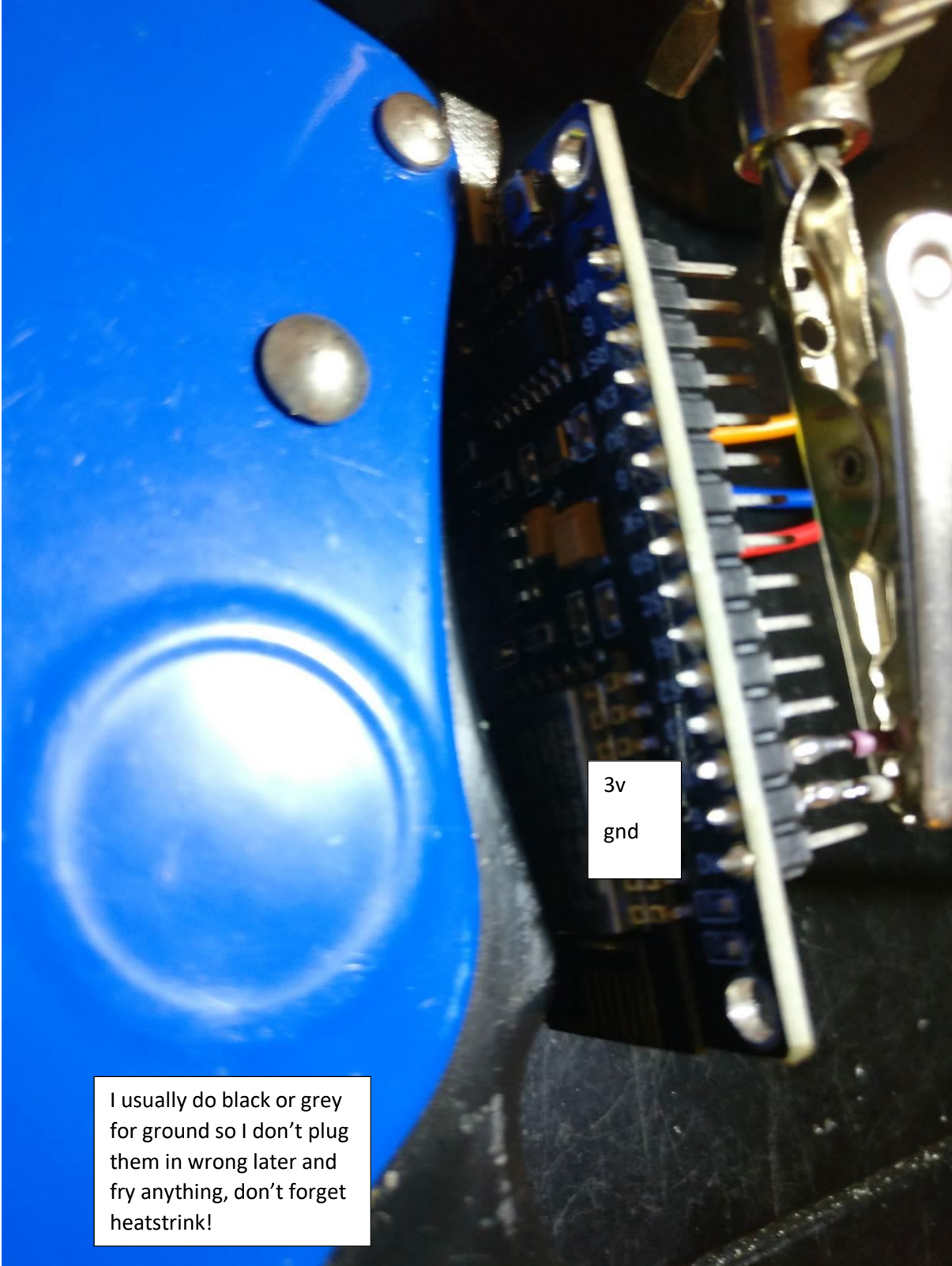


1k resistor



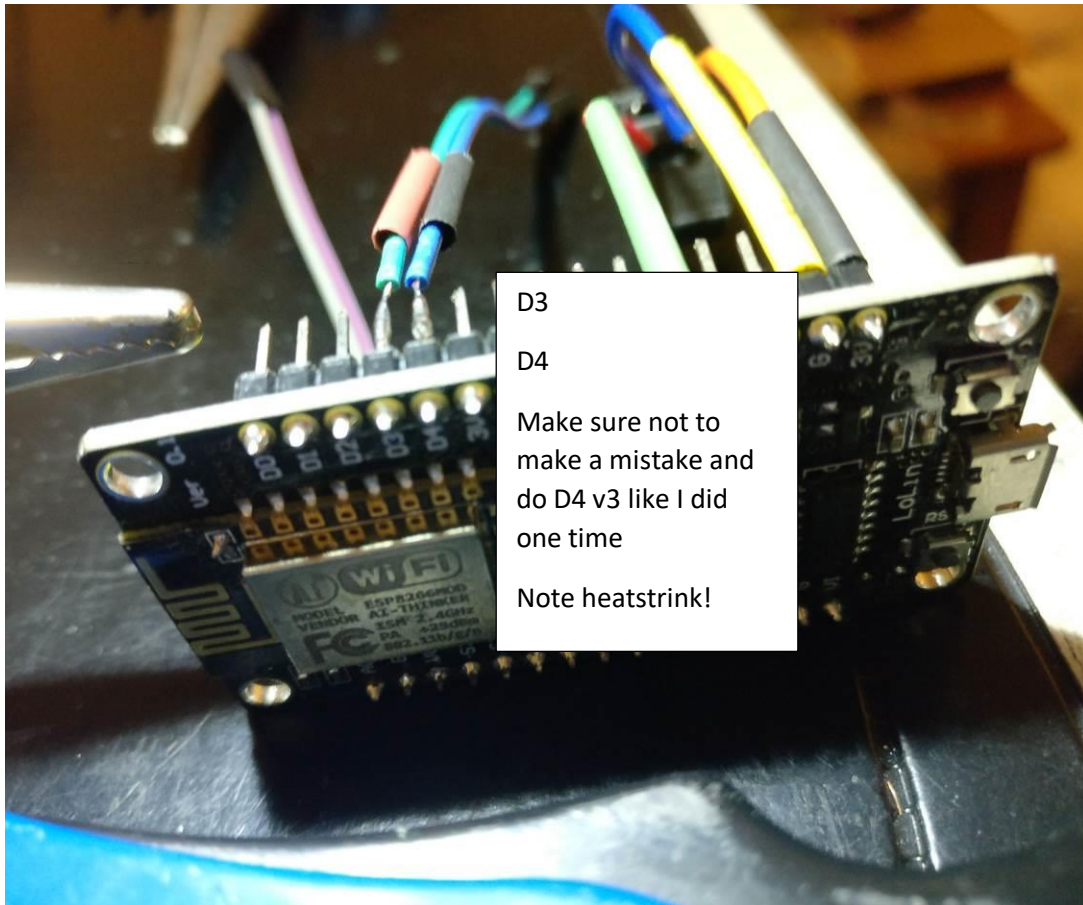
Note longer heatshrink to hide resistor





3v  
gnd

I usually do black or grey for ground so I don't plug them in wrong later and fry anything, don't forget heatshrink!

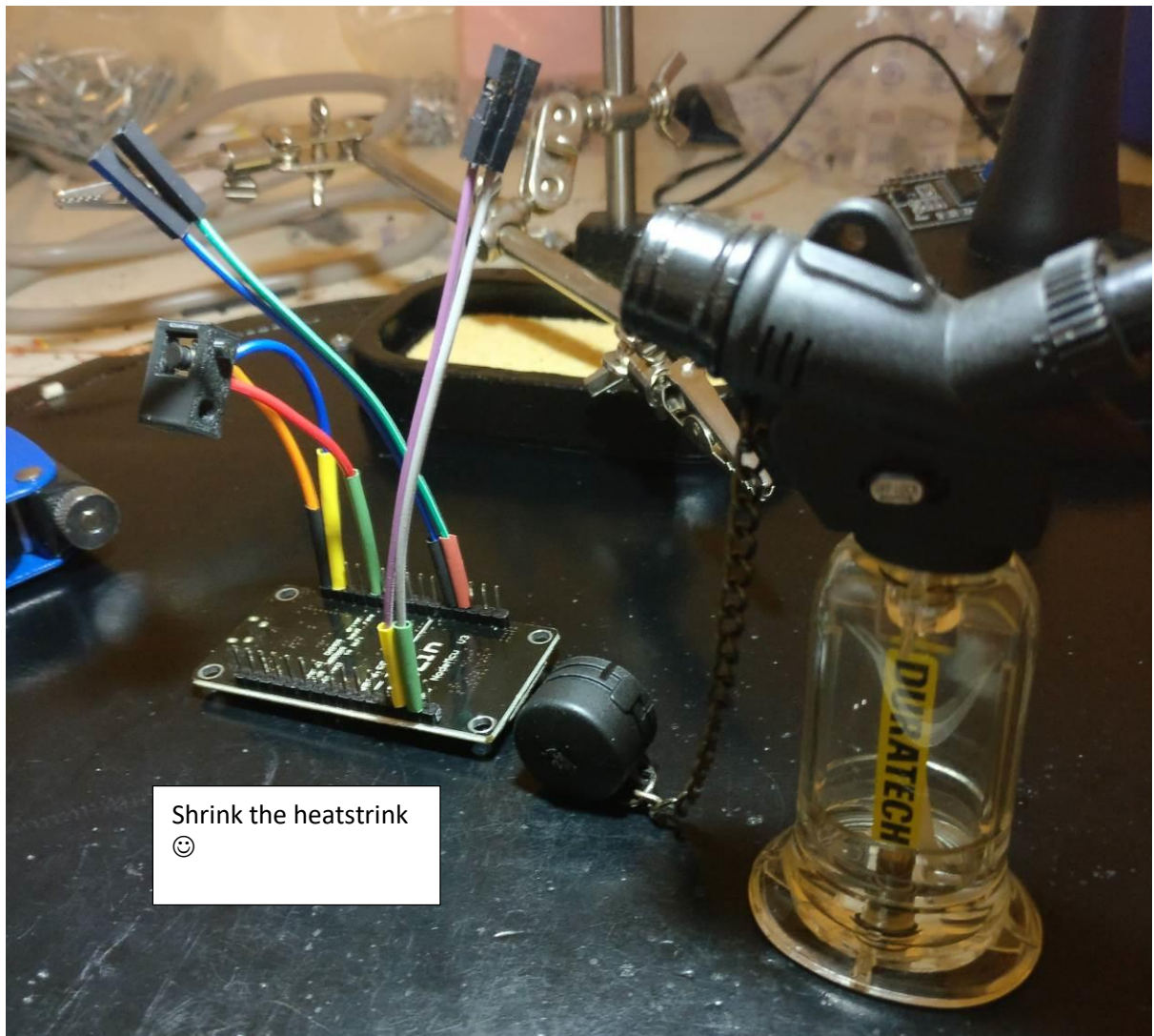


D3

D4

Make sure not to  
make a mistake and  
do D4 v3 like I did  
one time

Note heatstrink!



Shrink the heatstrink

☺

## Final assembly

