waag society

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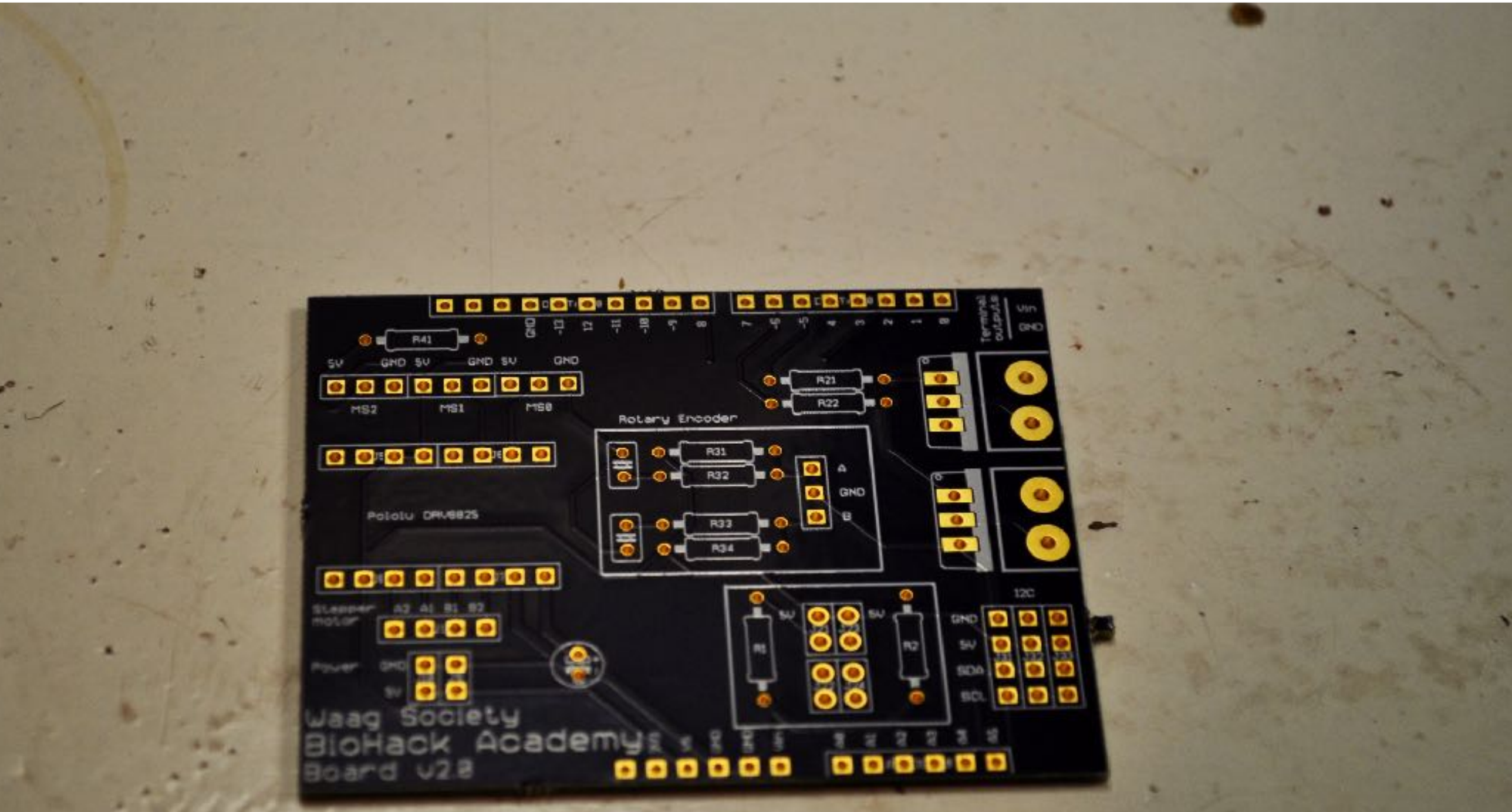
# BioHack Board v2

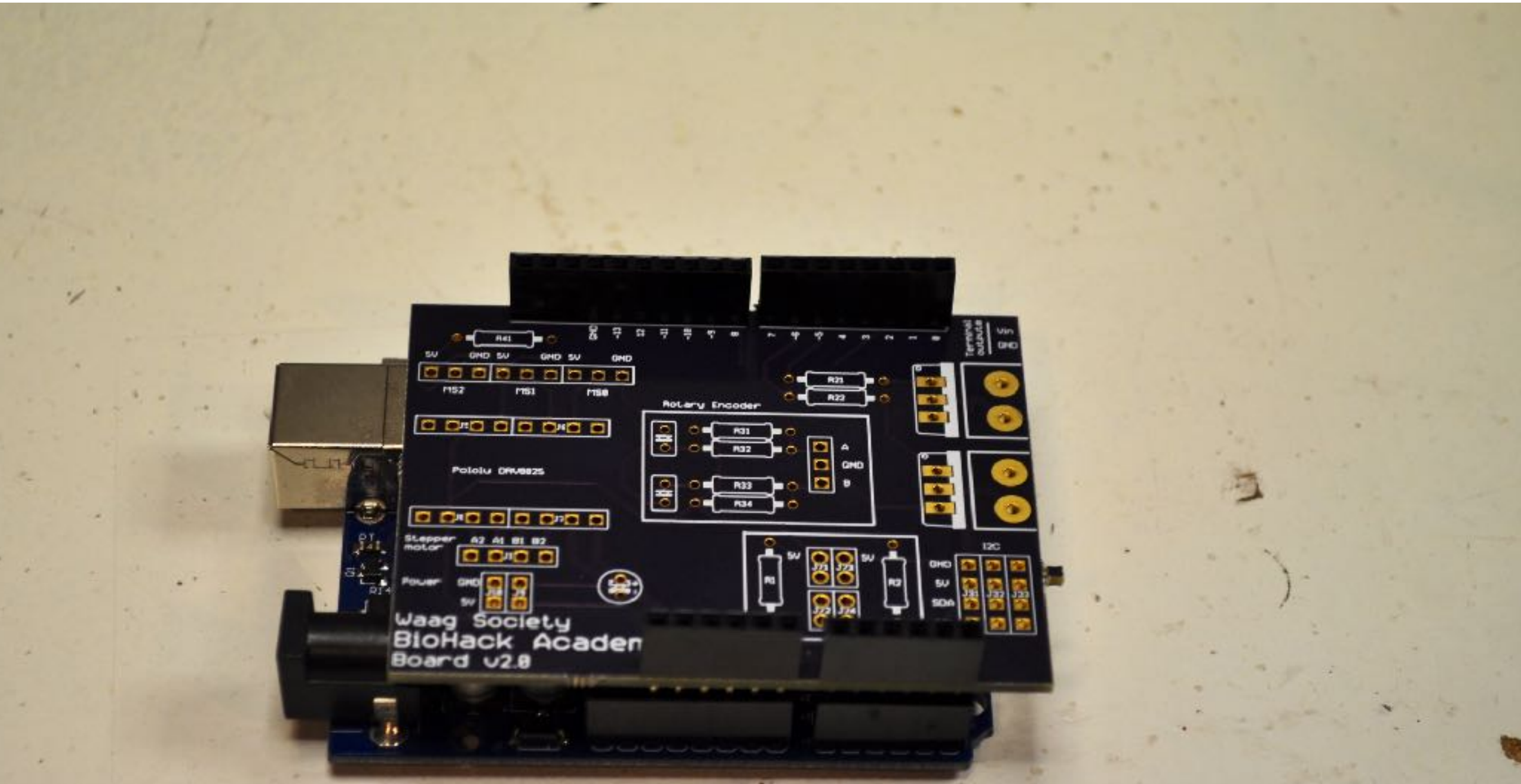
## Soldering Guide

# Start with the PCB



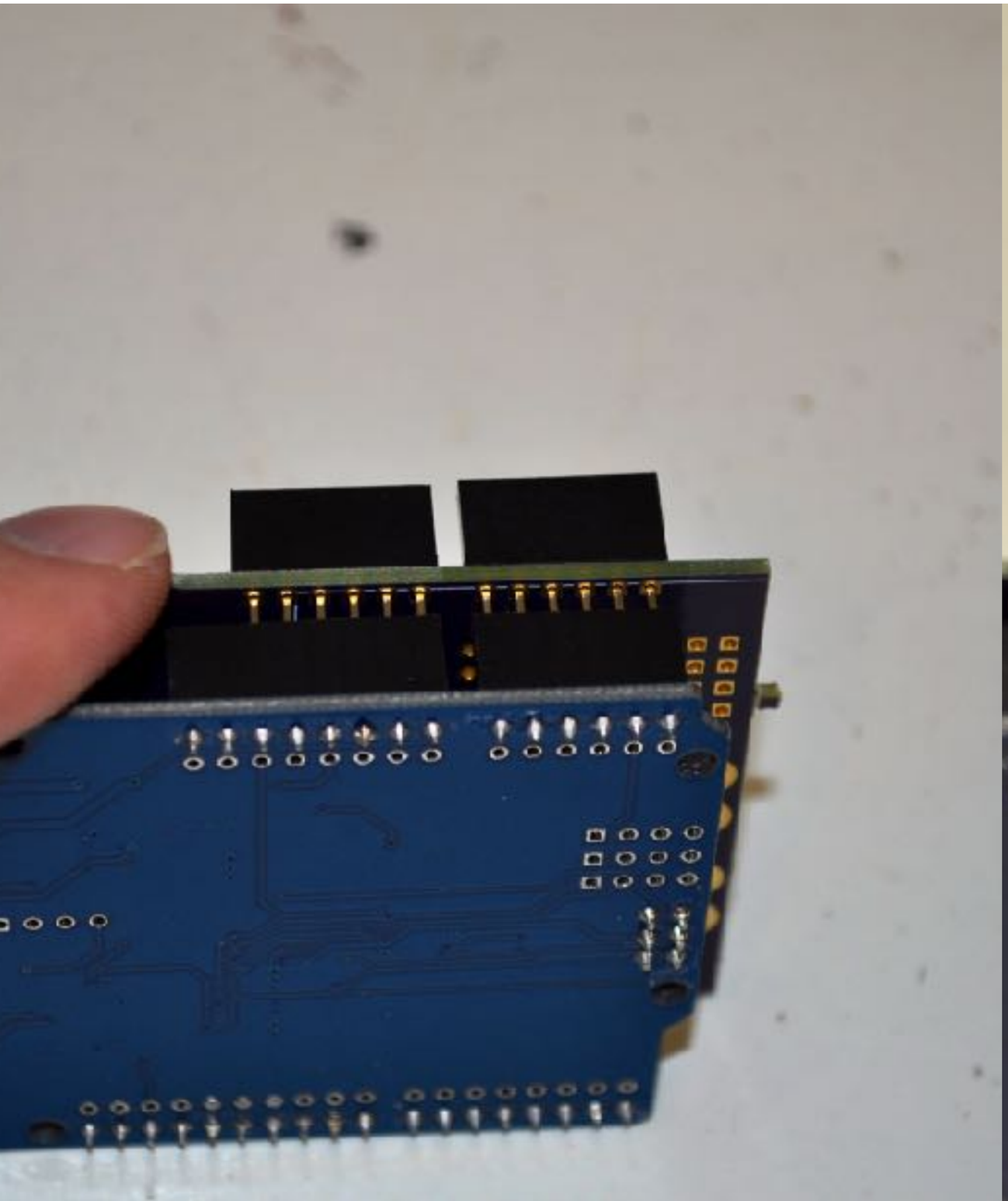
# Place the headers in the PCB

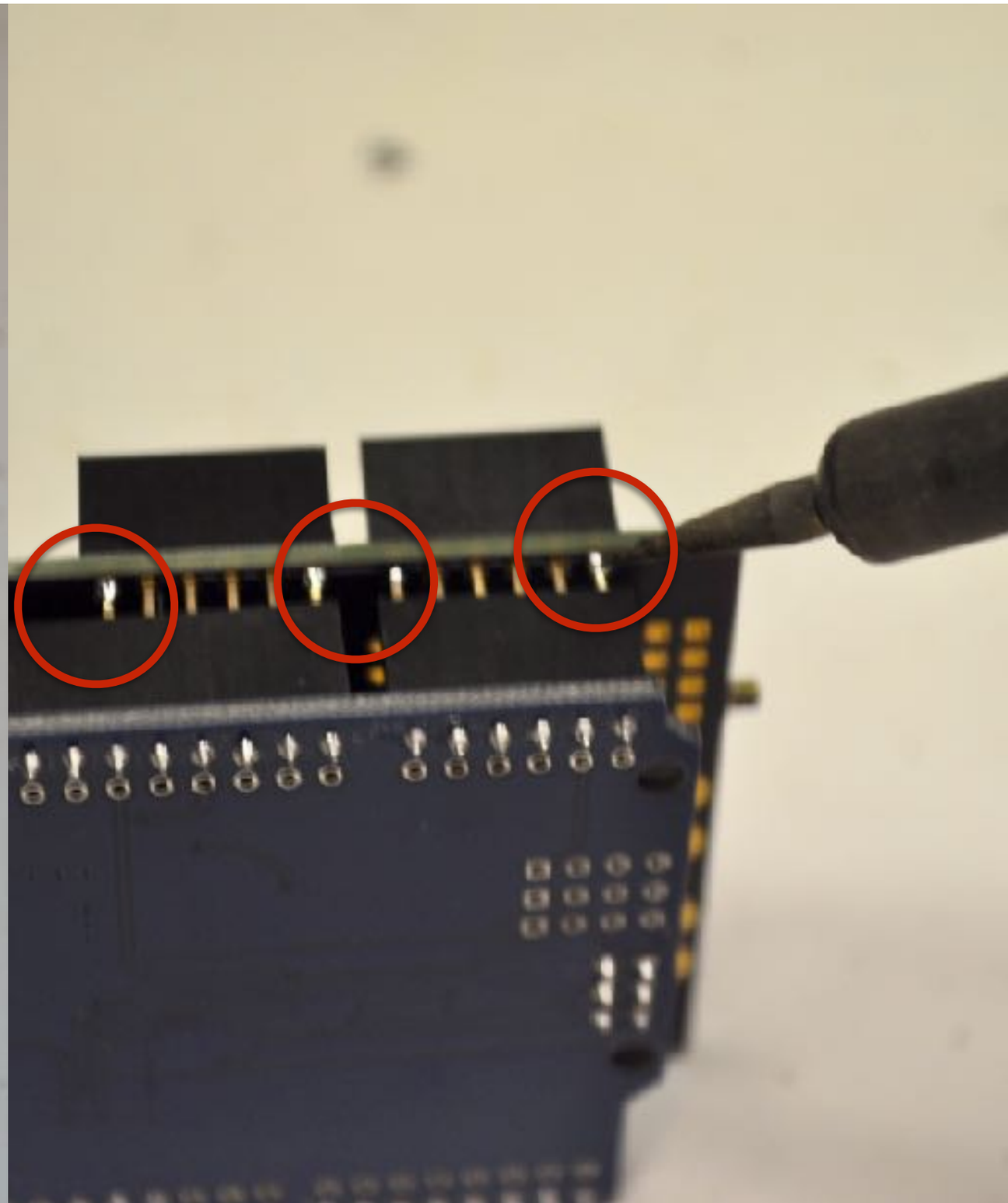
## Use an existing Arduino board for positioning



# Leave some room for soldering

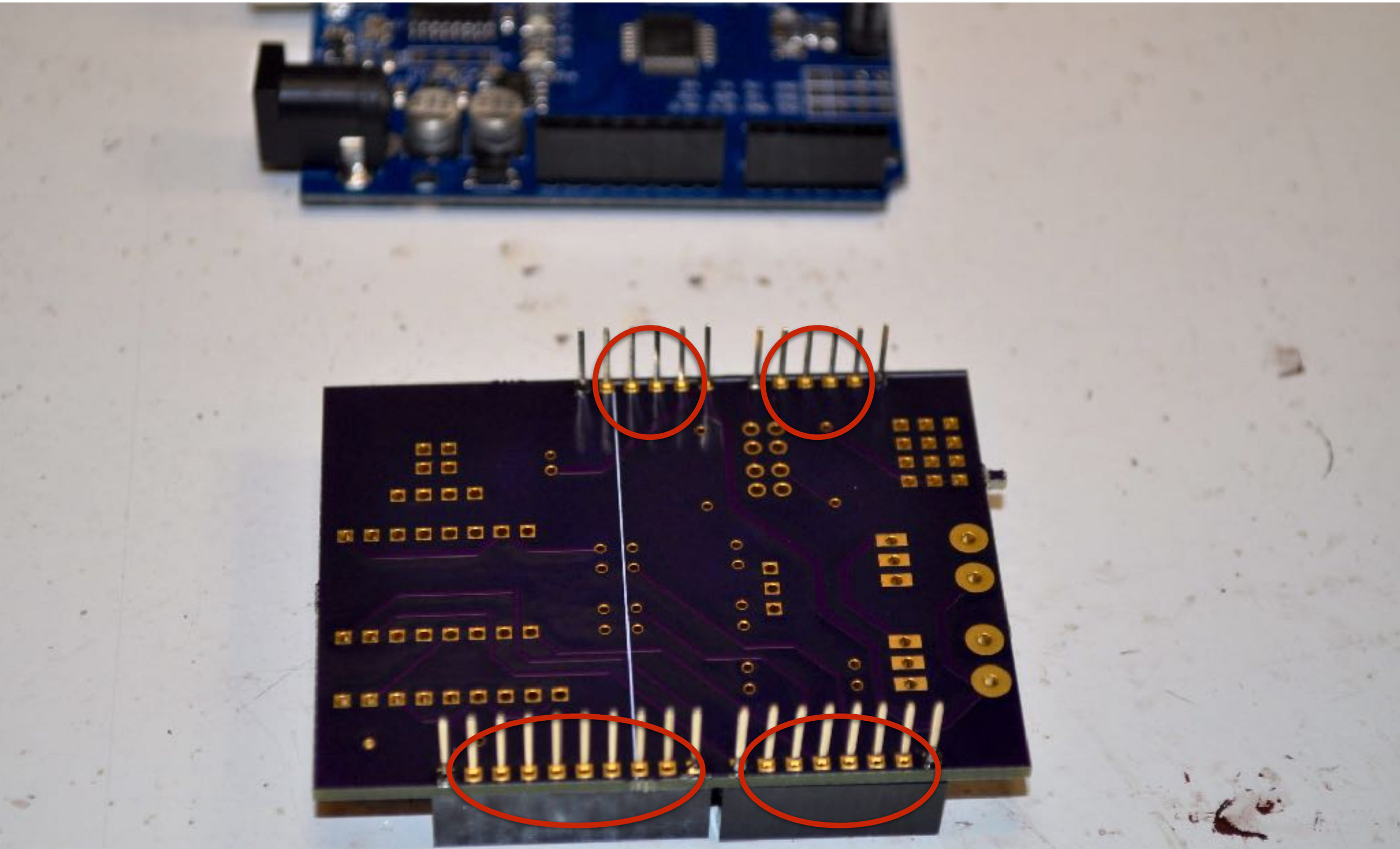
Only solder the outer pins first



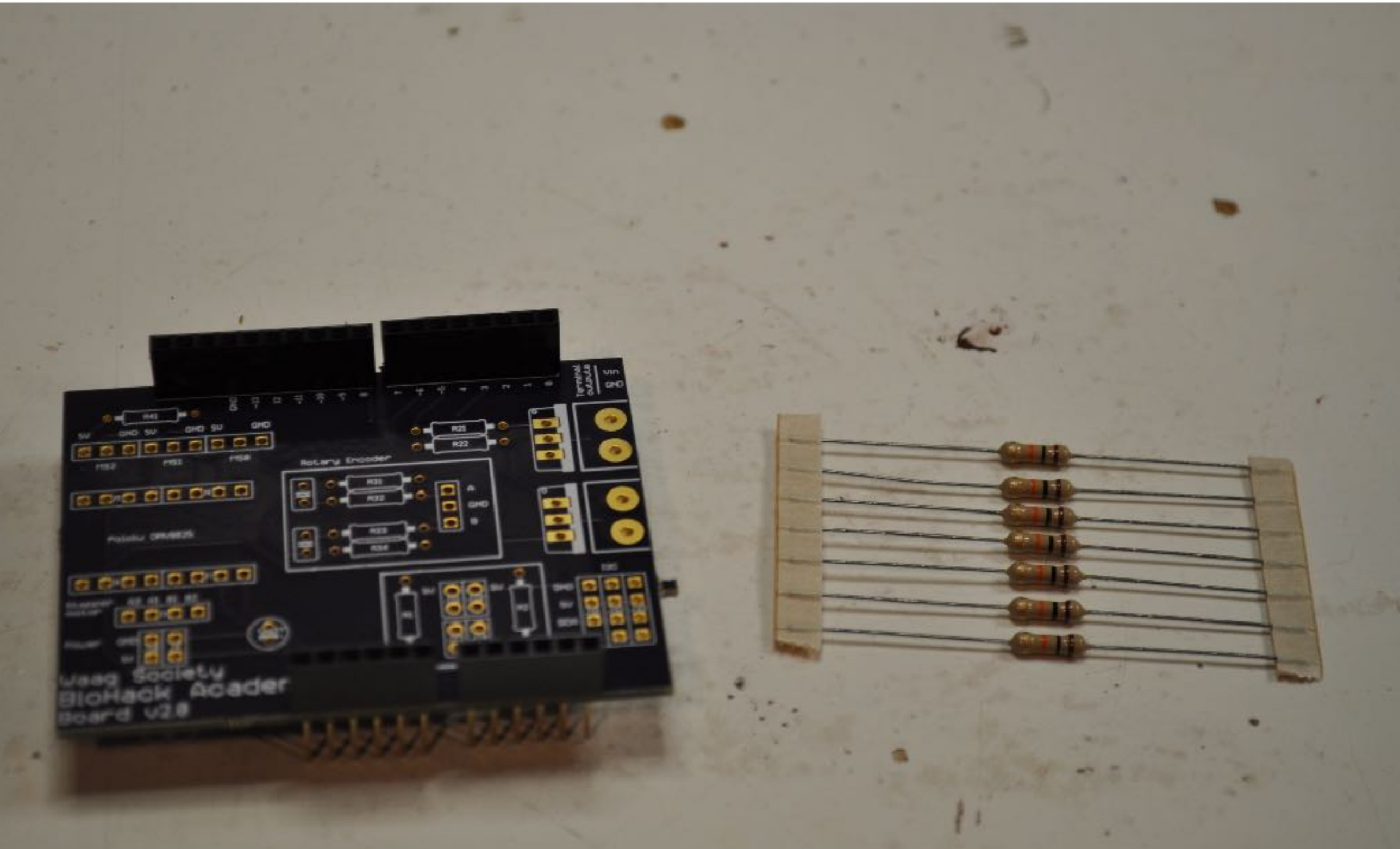


# Take the Board out of the Arduino

## Solder all the remaining pins to the Board

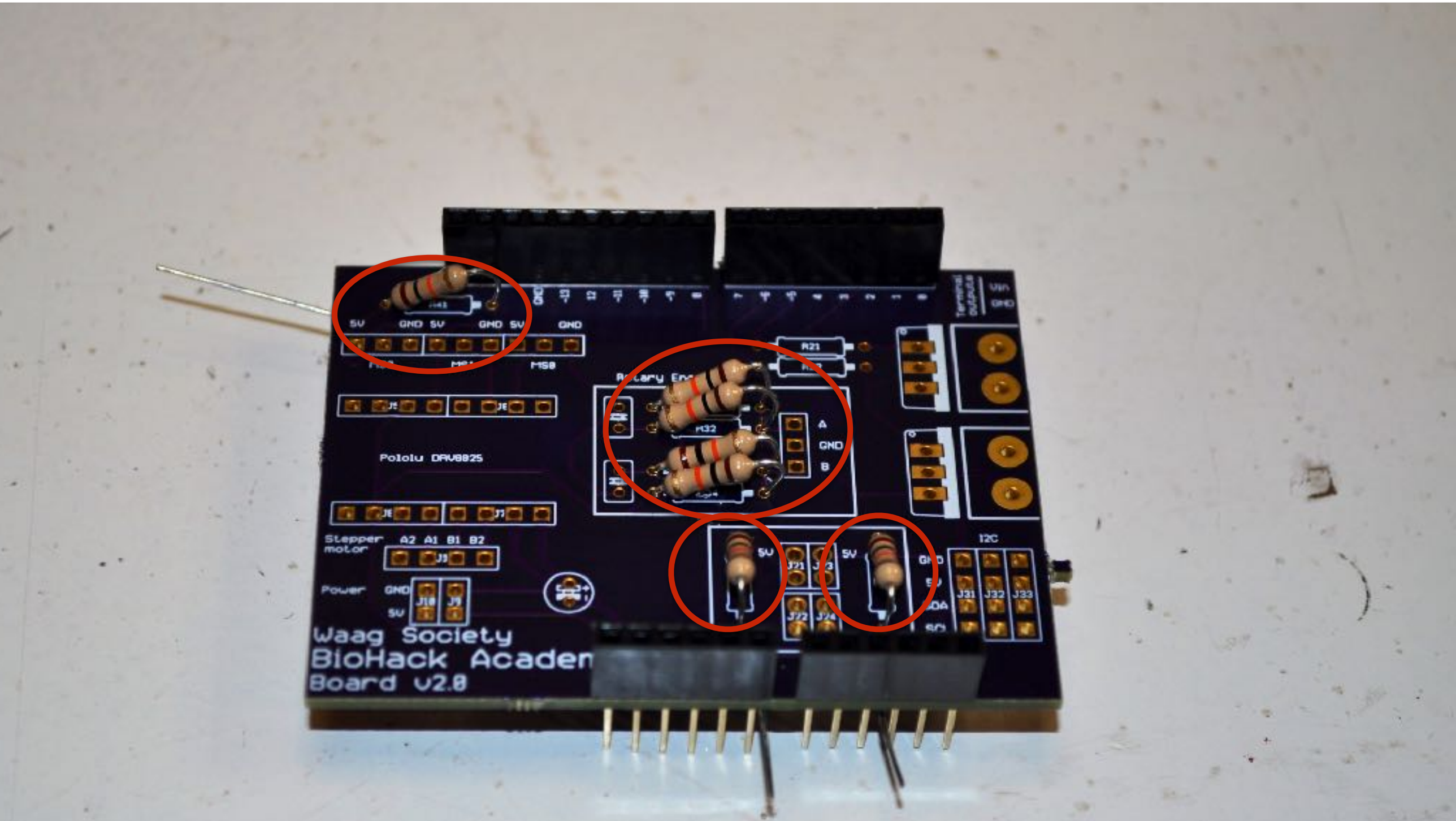


# Grab the 10K Ohm resistors

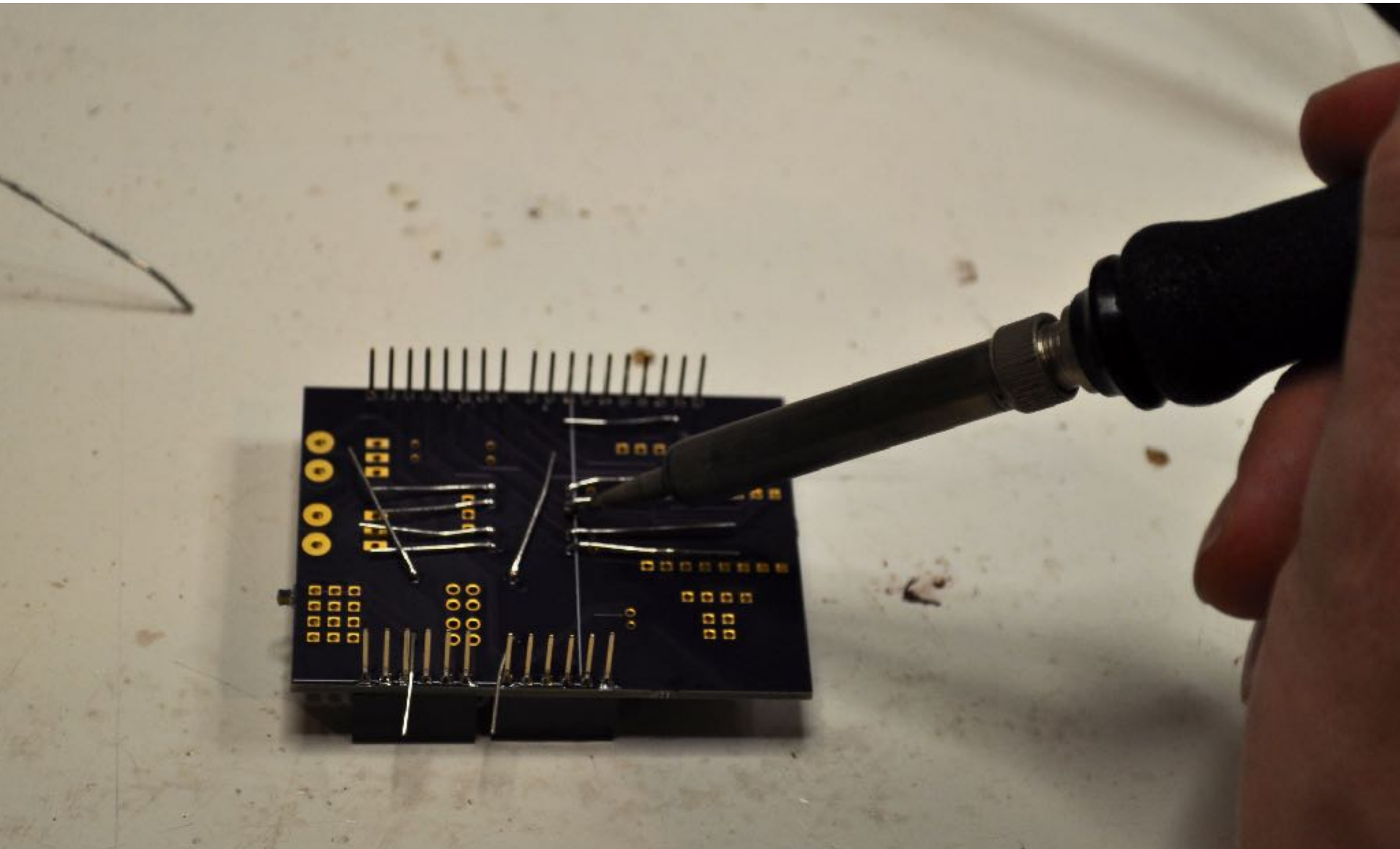


# Place the resistors on the Board

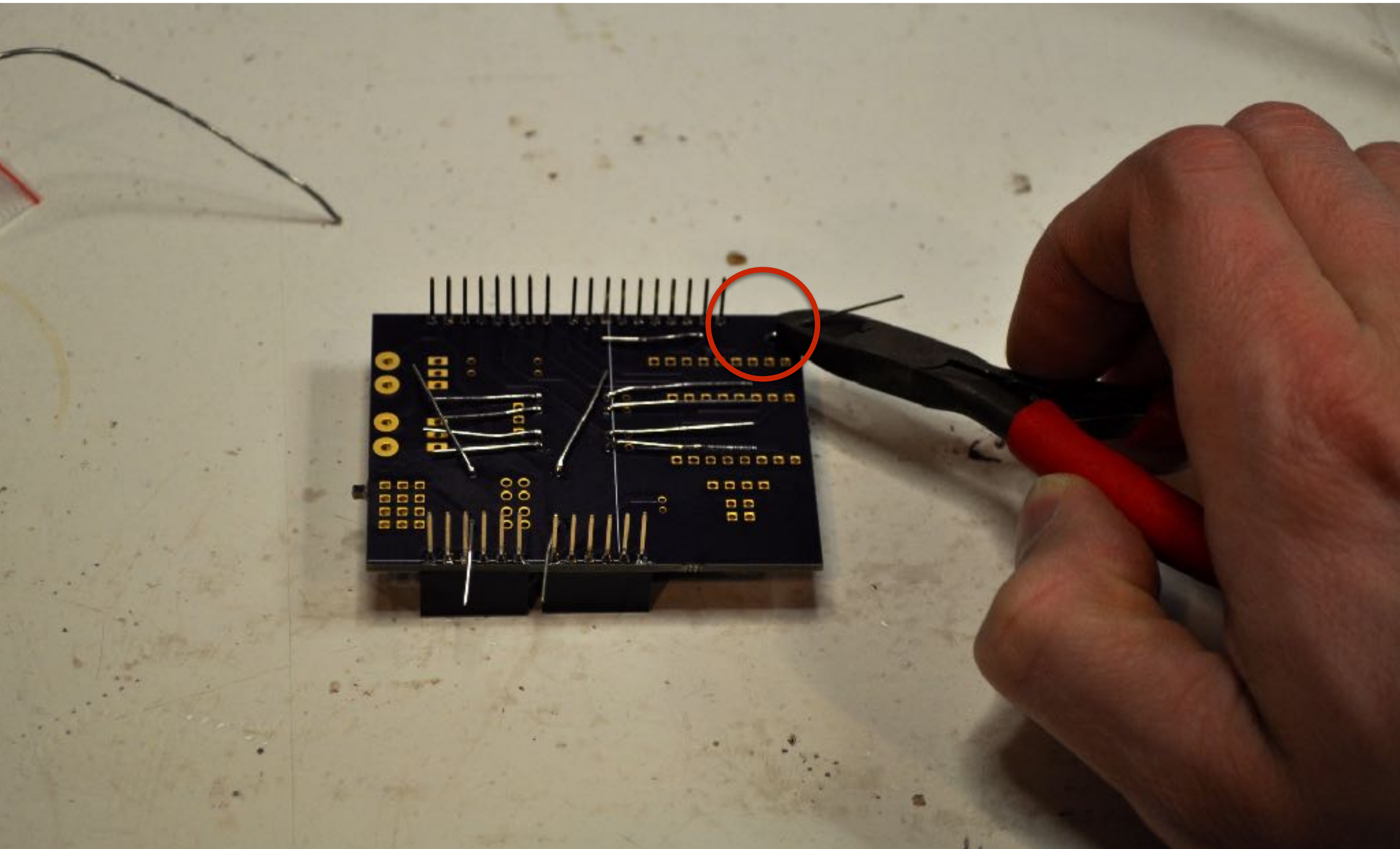
## Bend the legs to secure the resistors



# Solder all the resistors to the board

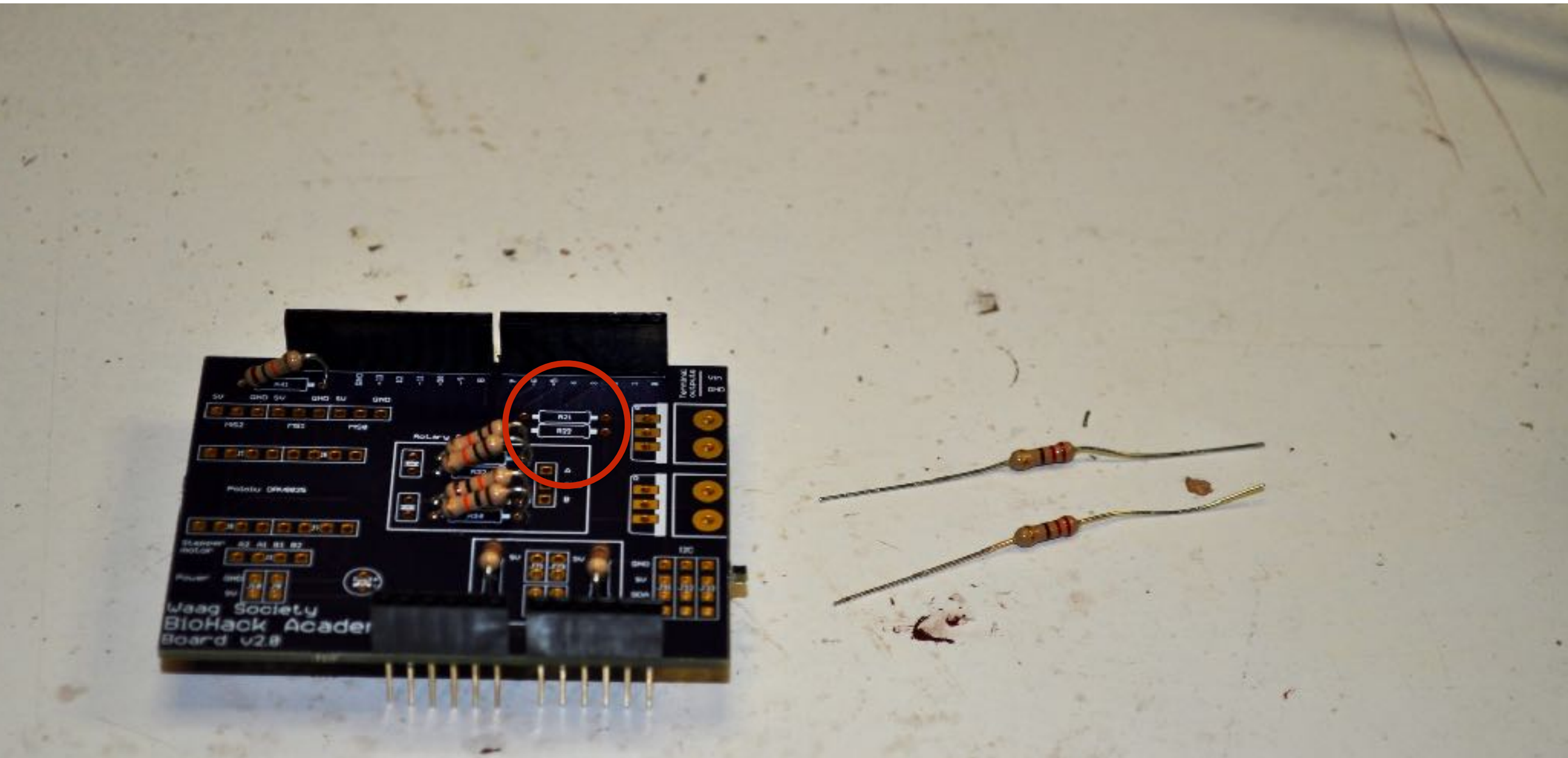


# Cut off the remainder of the legs



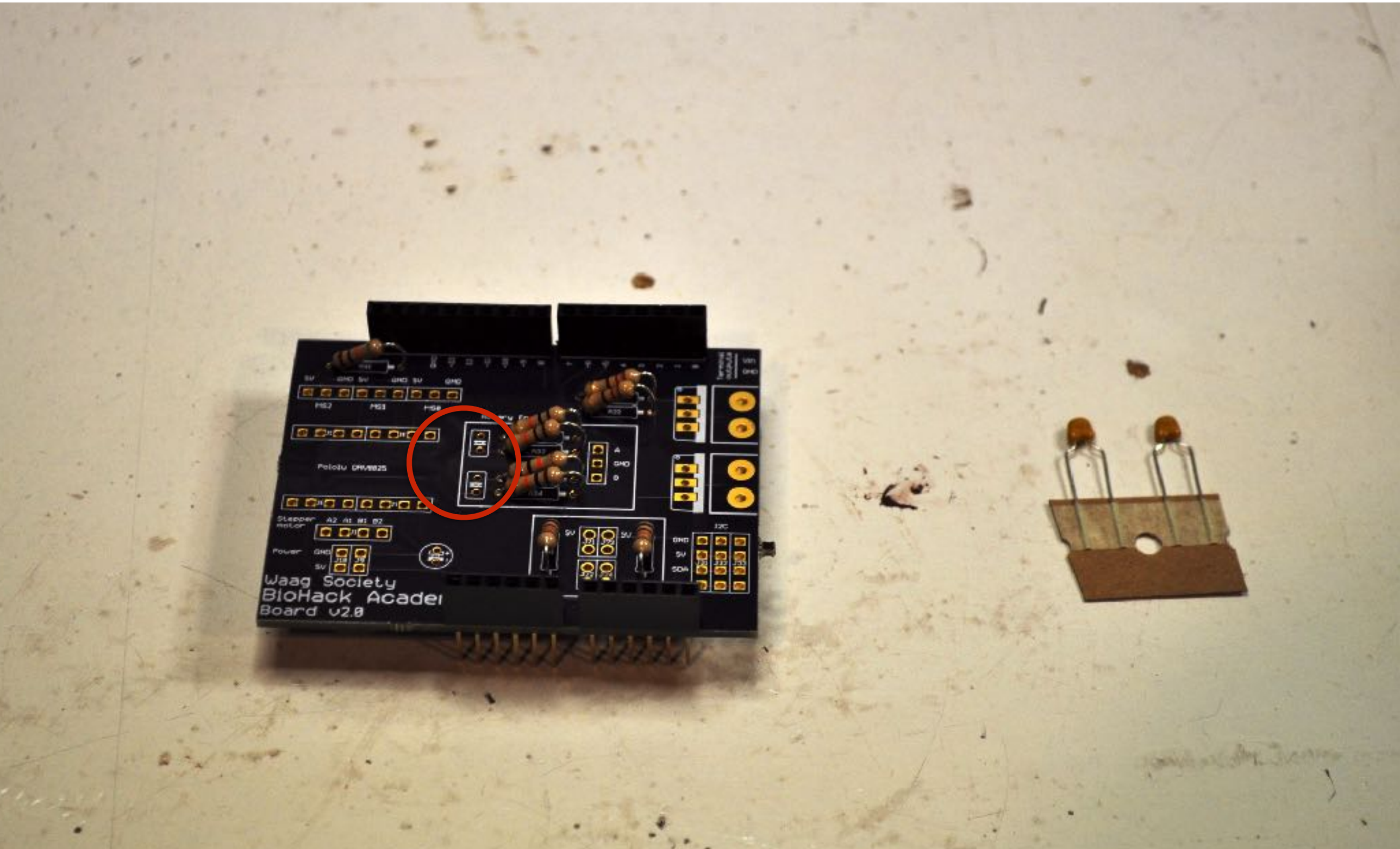
# Grab the 220 Ohm resistors

Solder to the board just like the previous resistors



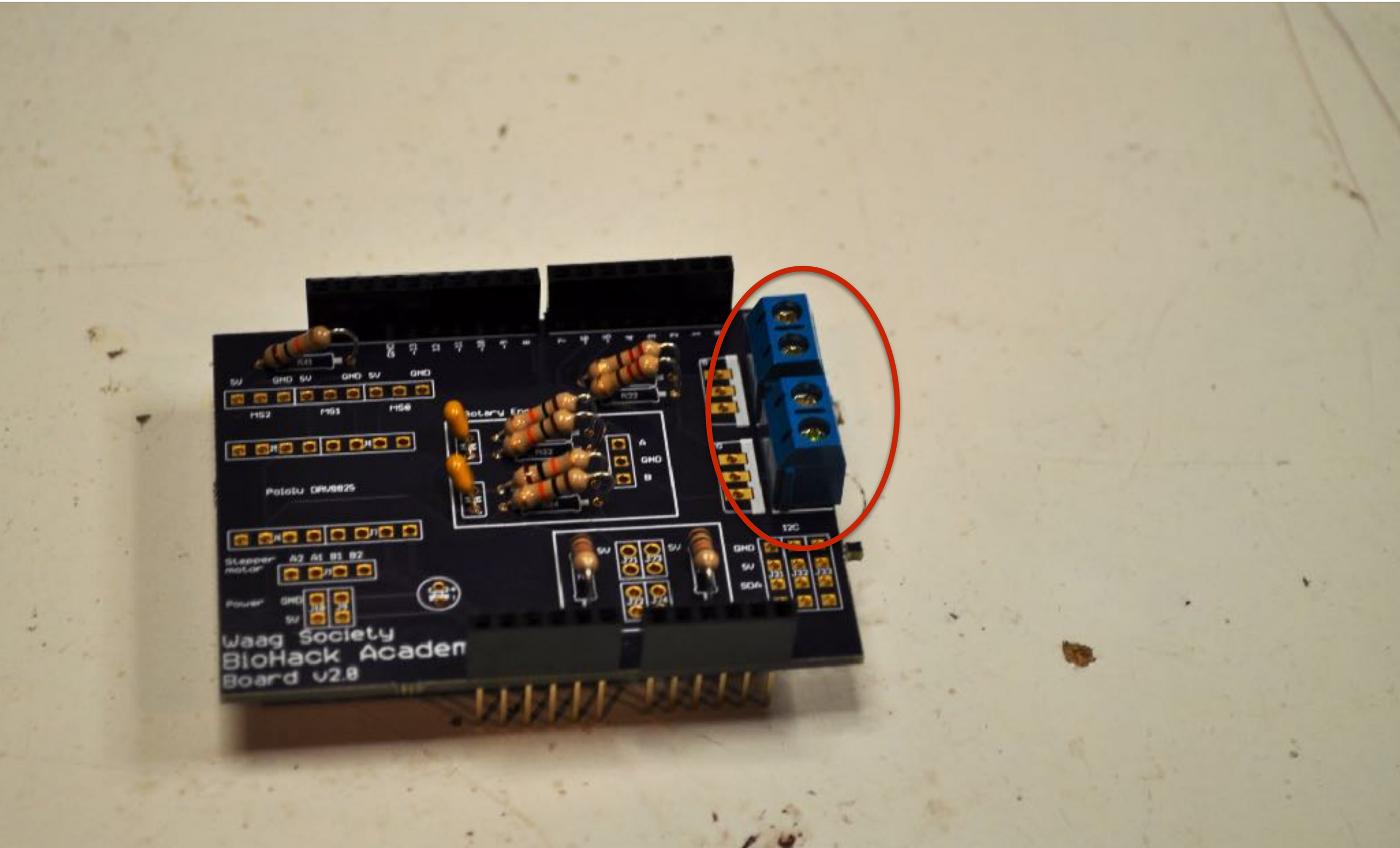
# Done, next up: the 10 nF capacitors

Stick through the board and solder



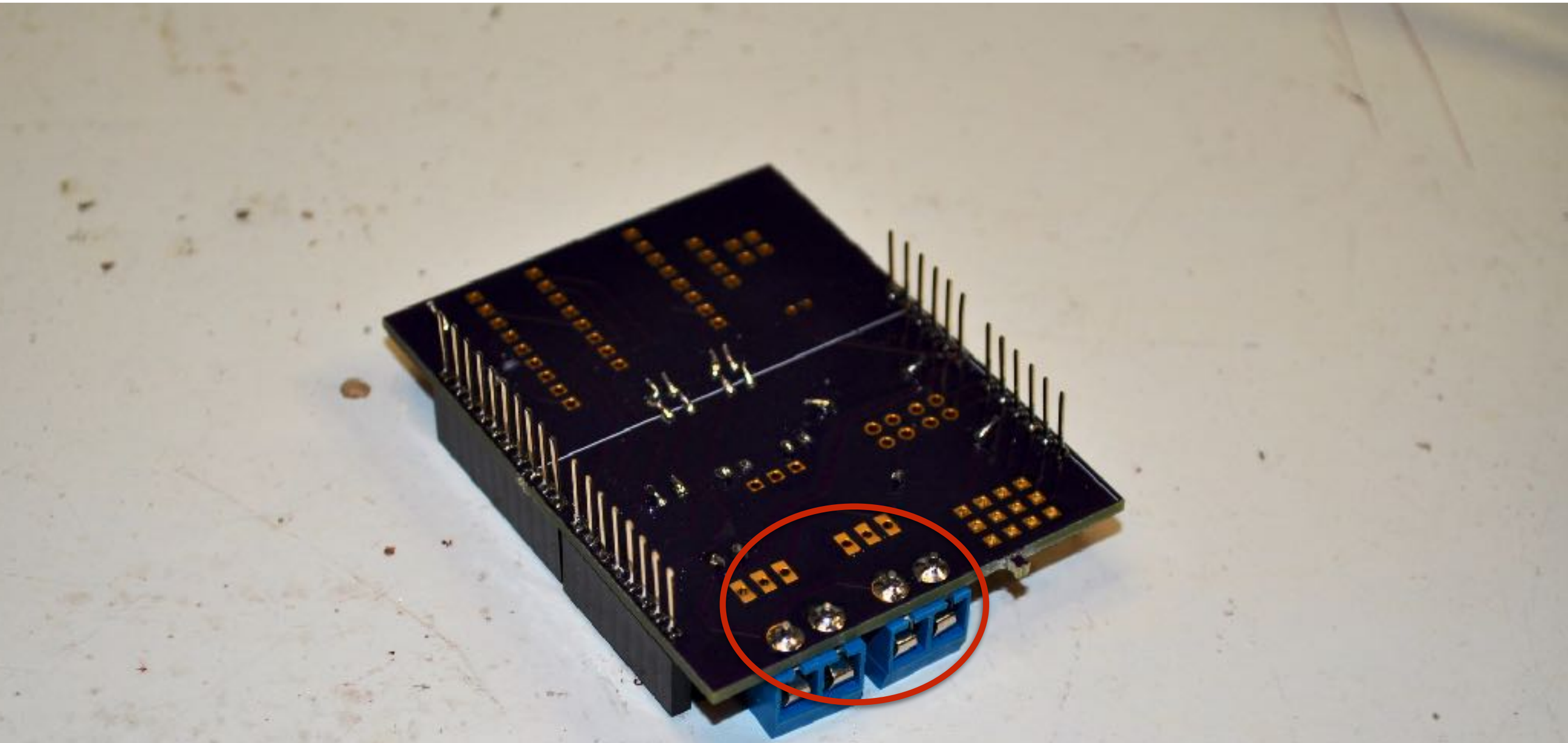
# Done, capacitors are in place

# Next up, the blue screw terminals

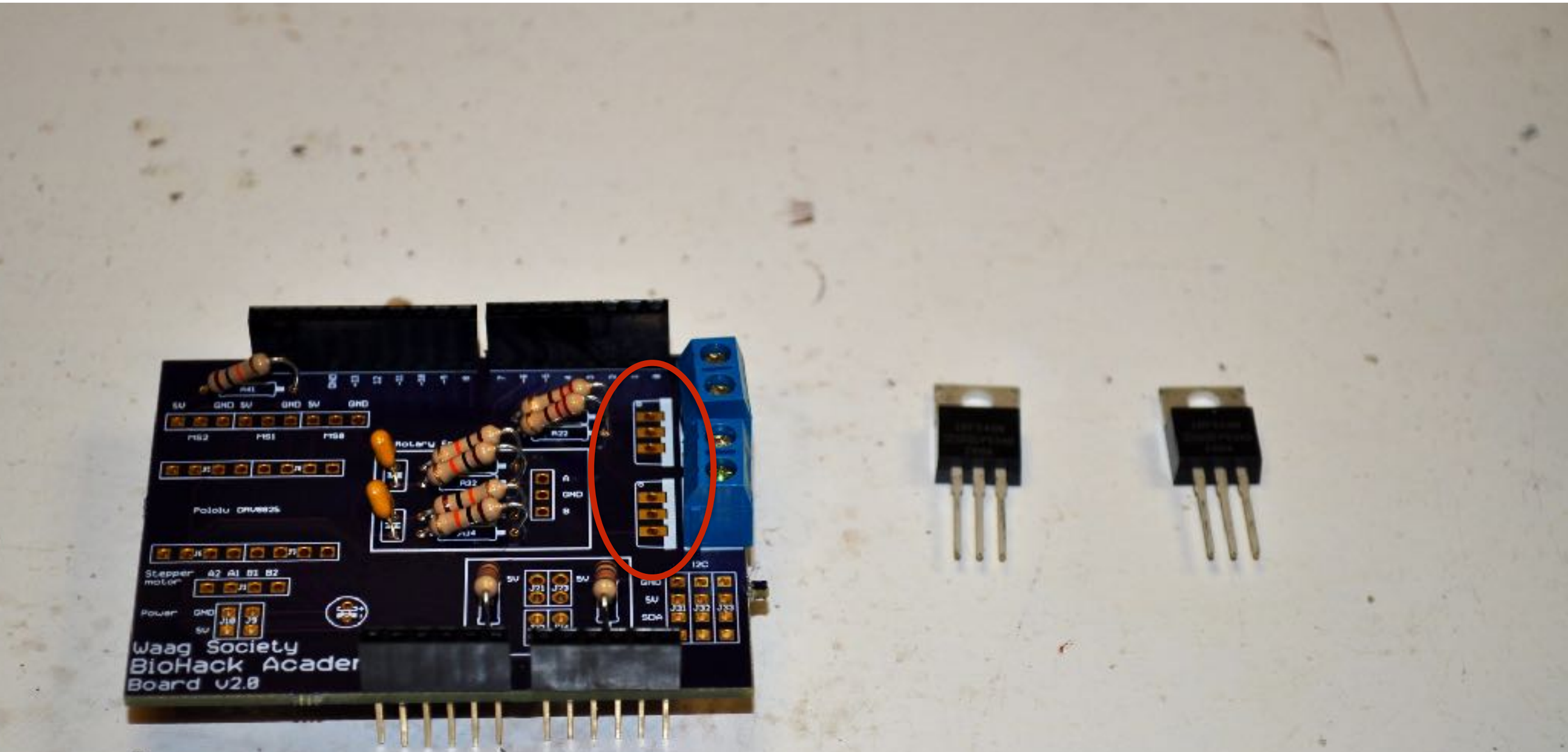


# Make sure to apply lots of solder

Because we'll pull a lot of current through these terminals

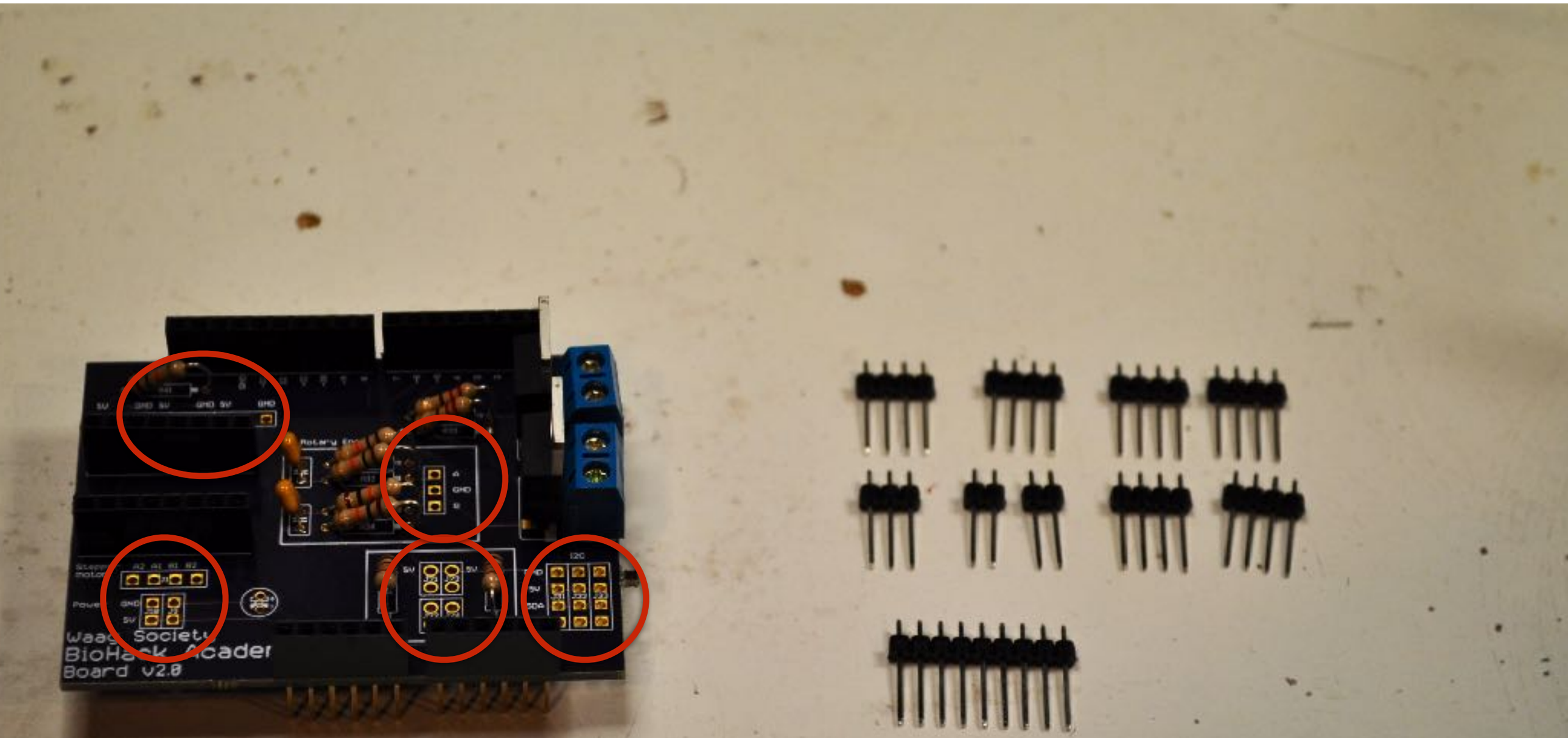


# Next: the MOSFETs



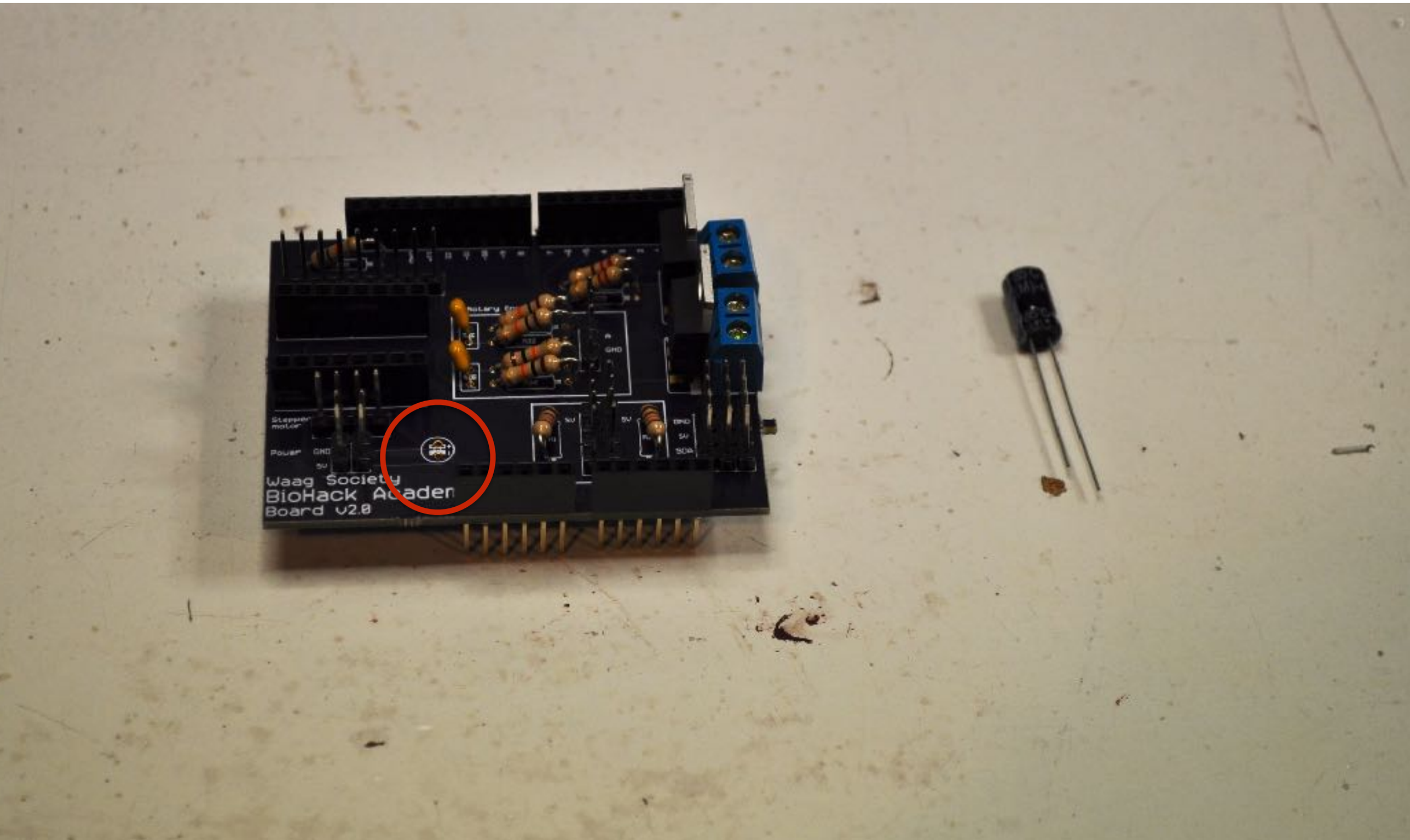
# Now it’s time for two more headers

# And all the female headers

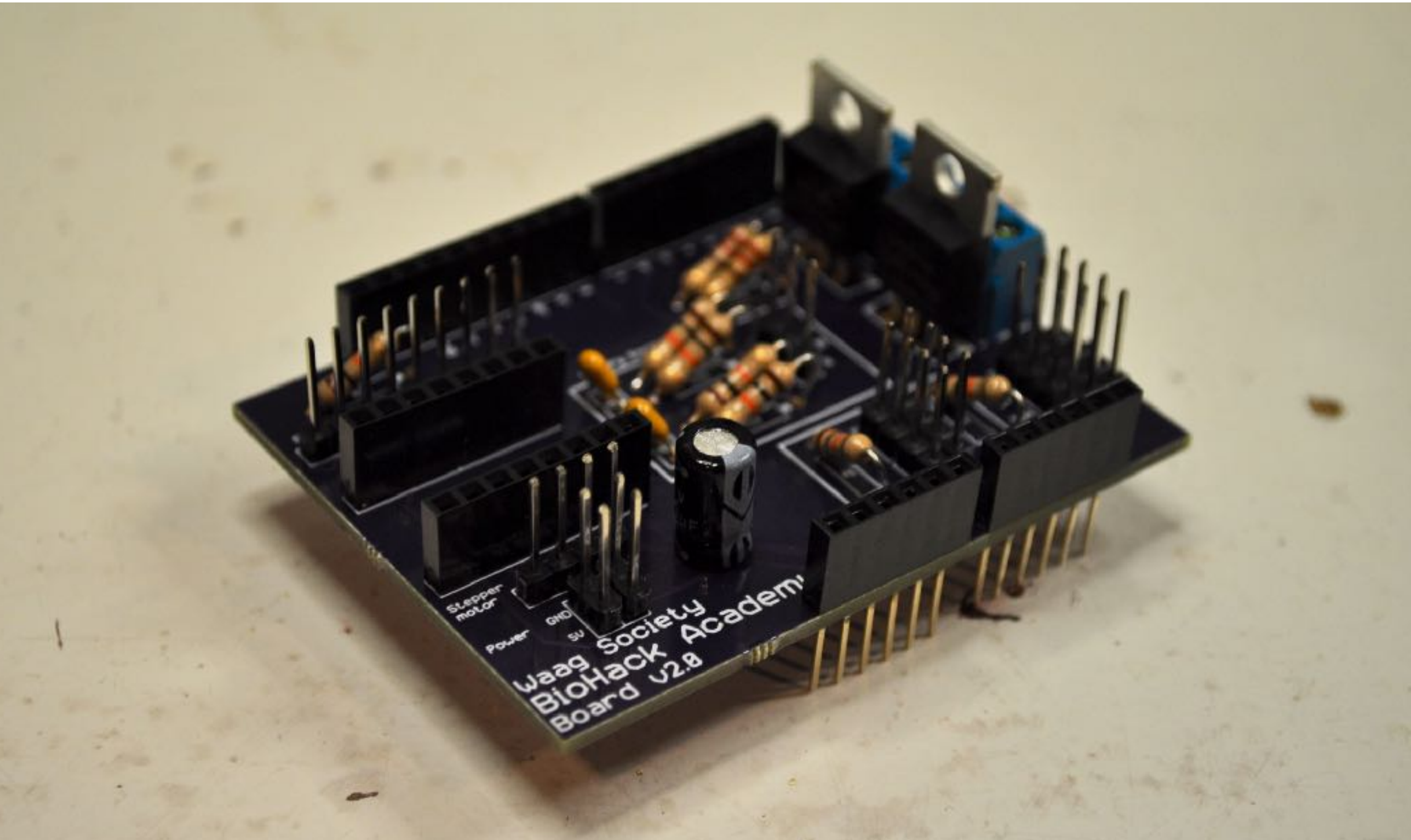


# Final part: the 100 uF capacitor

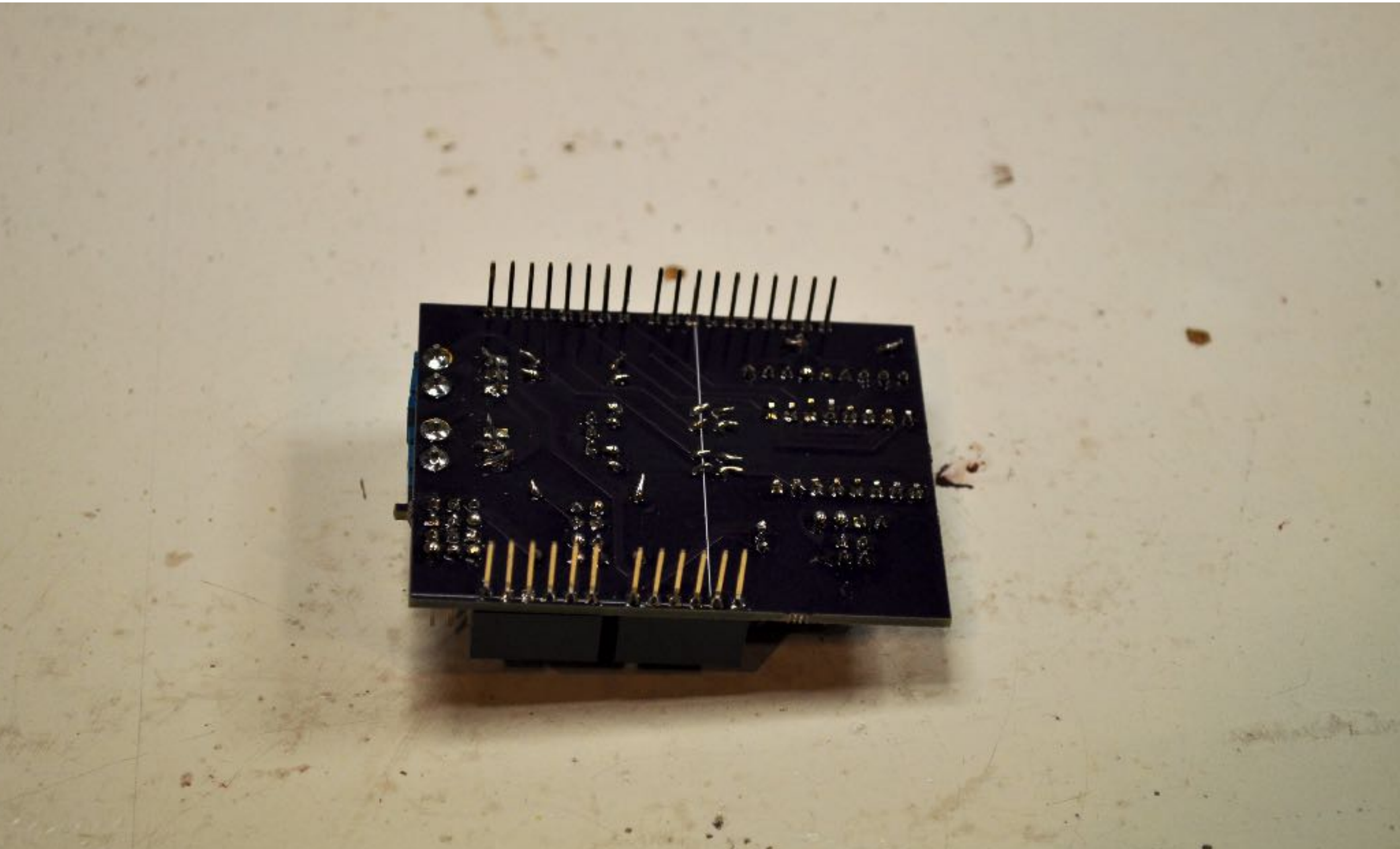
The long leg goes into the plus



# Done, the board is finished

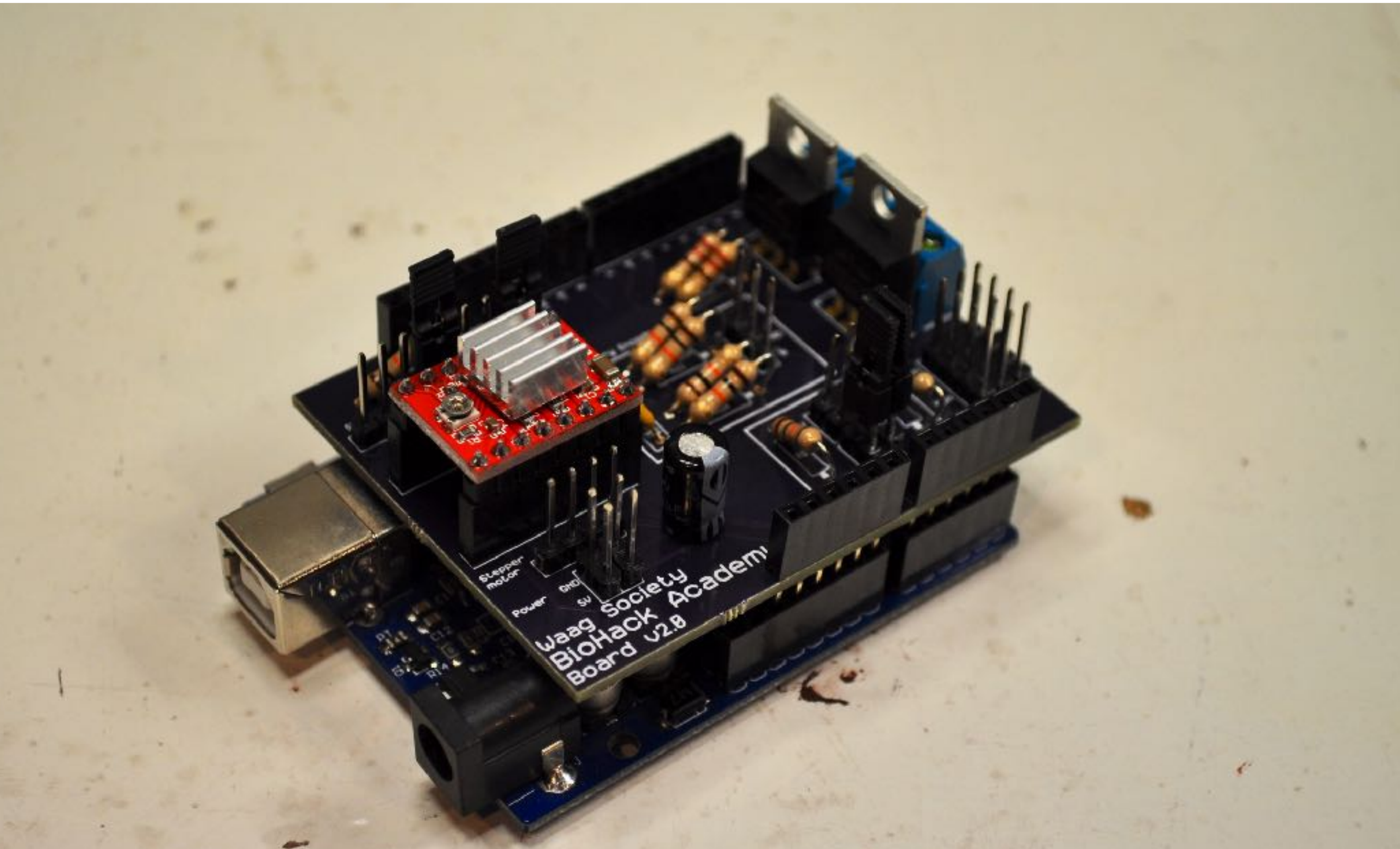


# Make sure the excess legs are cut



# Stack on top of the Arduino

## Also check whether the Pololu DRV8825 fits

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