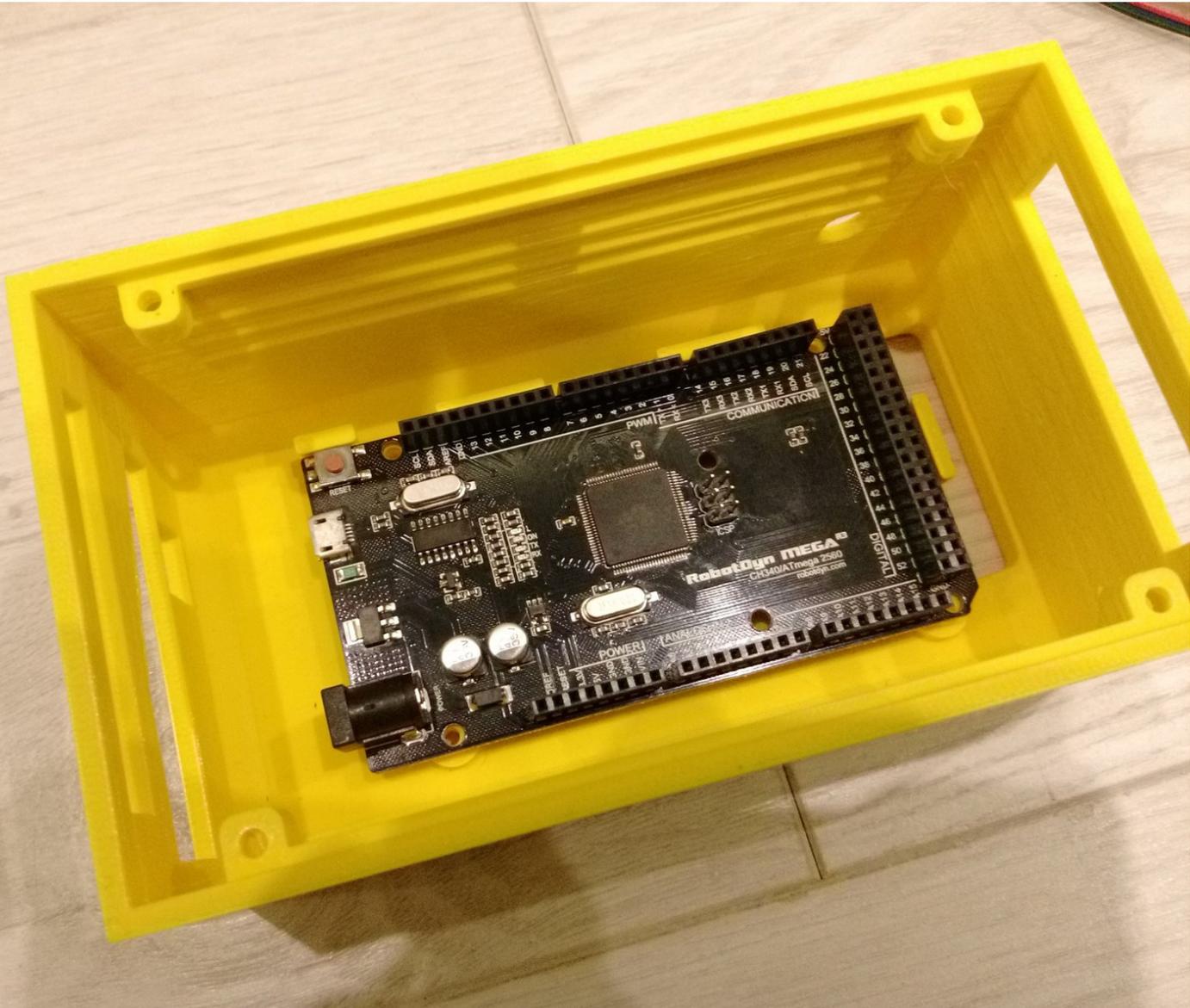


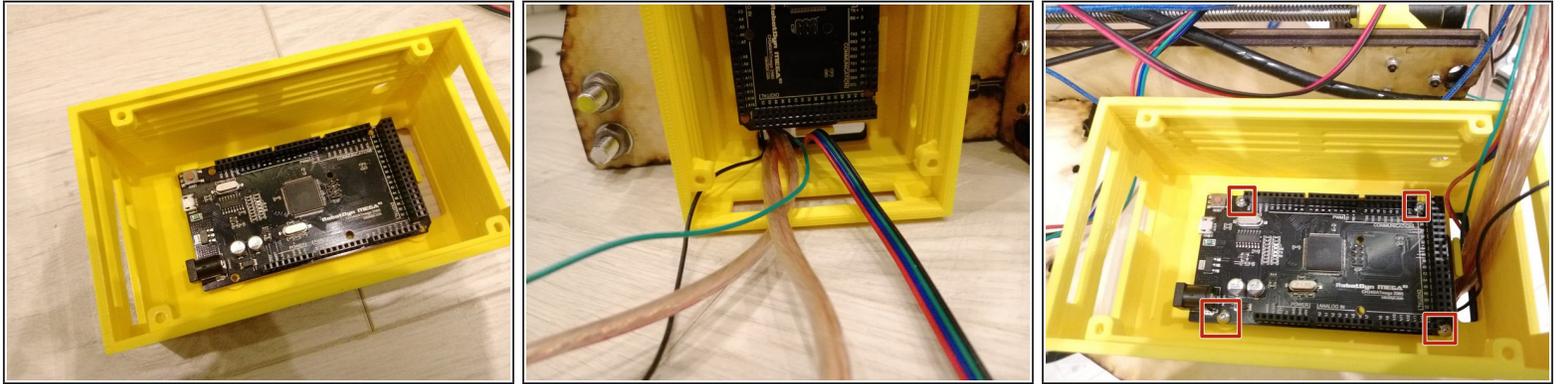
# MK2Clone

## 9. Electronics assembly

Written By: q3ok

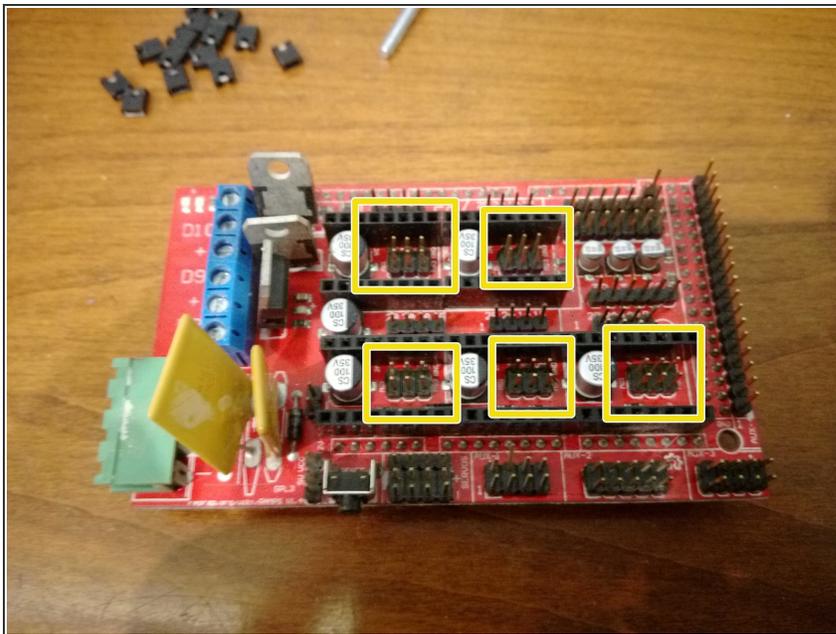


## Step 1 — 9. Electronics assembly



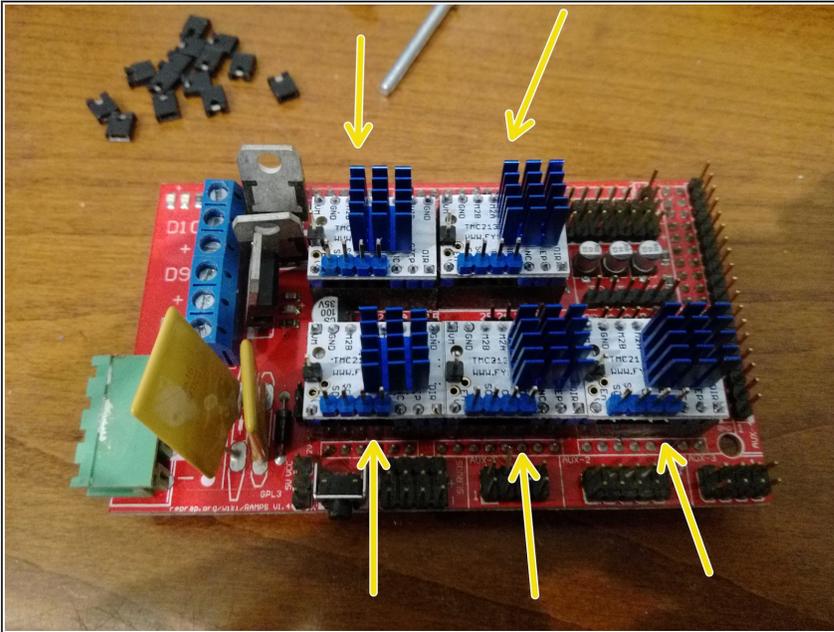
- Using 4x M3x25 screws and 4x M3 nuts screw the Arduino Mega to the electronics-cover base and the left wooden support
- Guide the cables as shown on image

## Step 2 — Prepare RAMPS



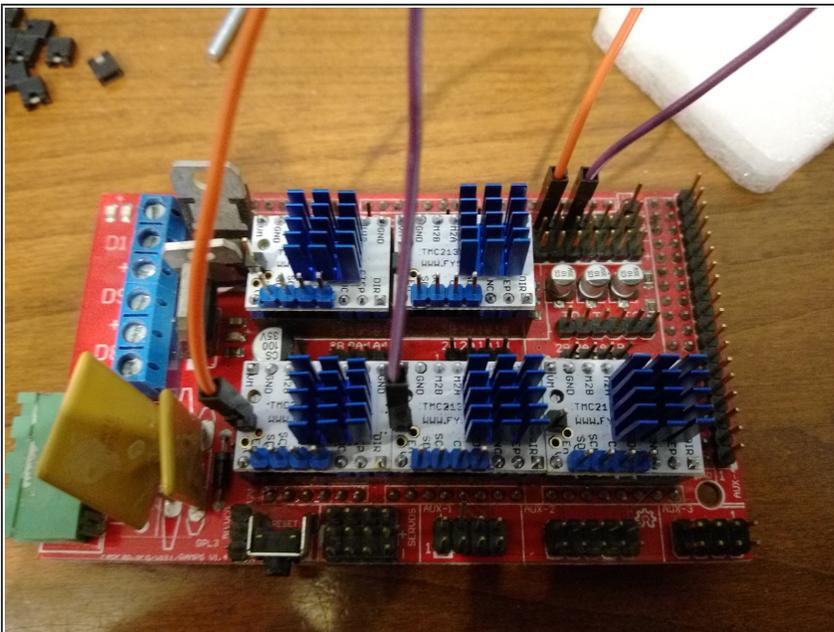
- Take the RAMPS 1.4 board and put in front of you
- Make sure that no jumpers are inserted

### Step 3 — Insert stepsticks



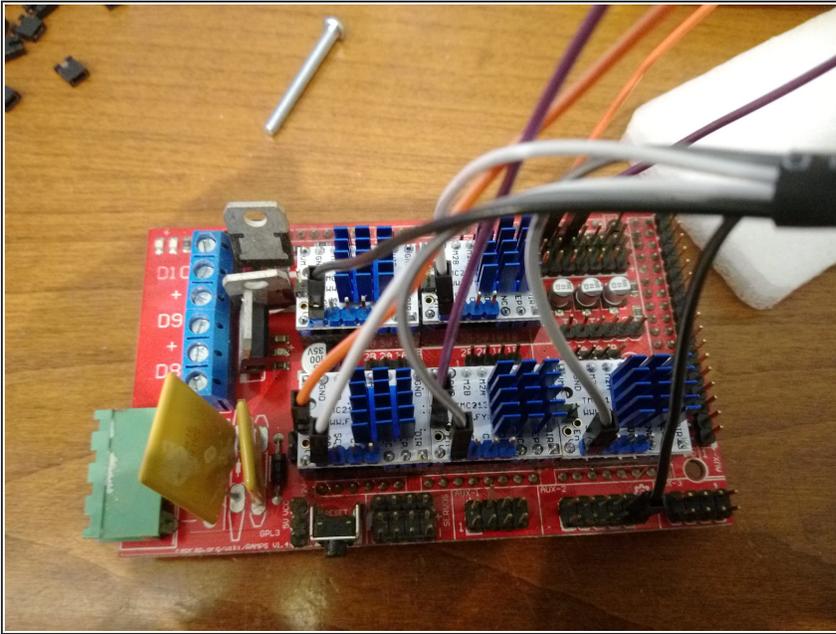
- Take the prepared 5x TMC2130 stepsticks
- Put the stepsticks on RAMPS
- ⚠ Make sure the correct orientation (as shown on image) of stepsticks

### Step 4 — Connect DIAG1 to endstops



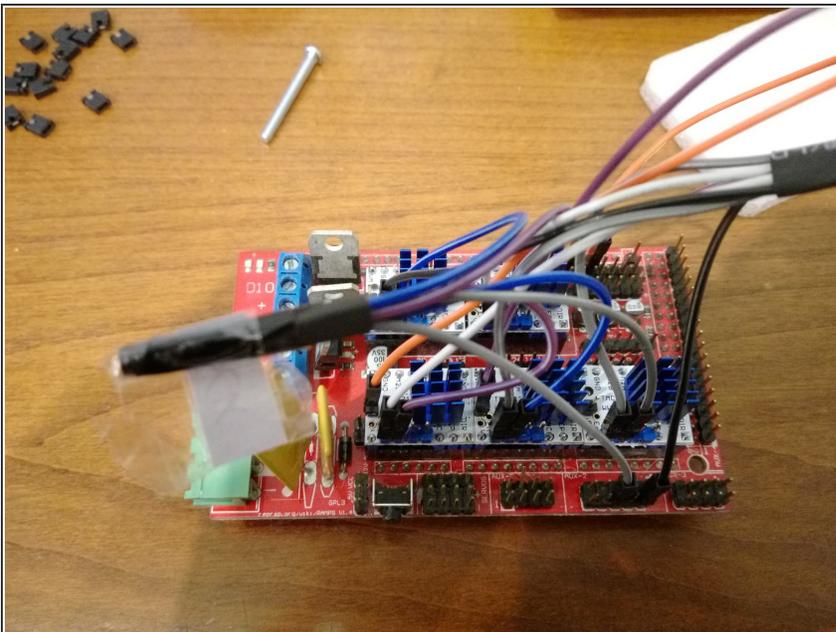
- Connect the DIAG1 on X stepstick to Xmin endstop Signal pin (orange cable on picture)
- Connect the DIAG1 on Y stepstick to Ymin endstop Signal pin (purple cable on picture)

## Step 5



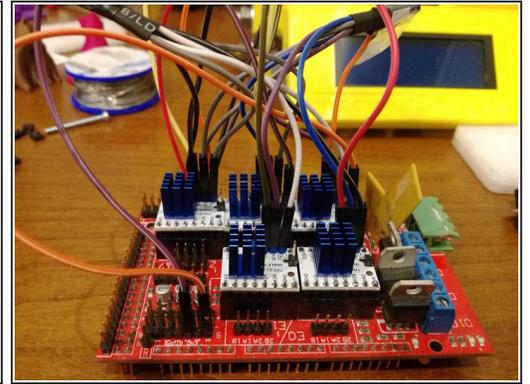
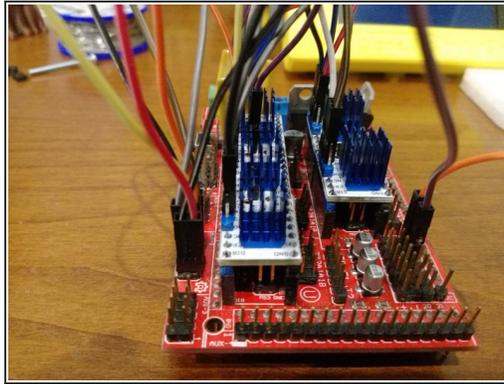
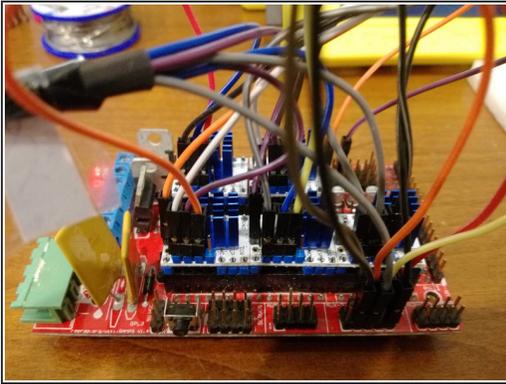
- Insert wisdom here.

## Step 6



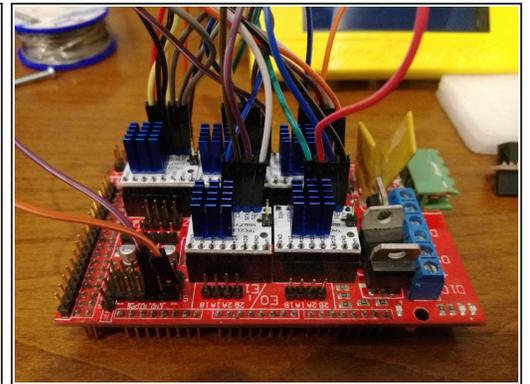
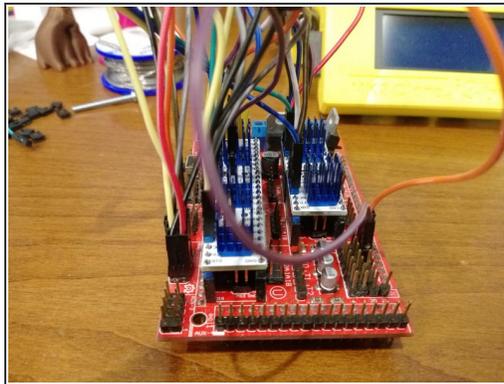
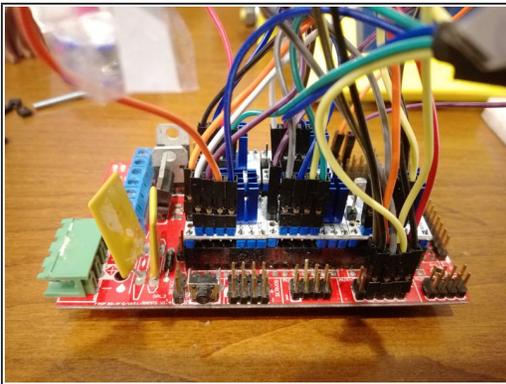
- Insert wisdom here.

## Step 7



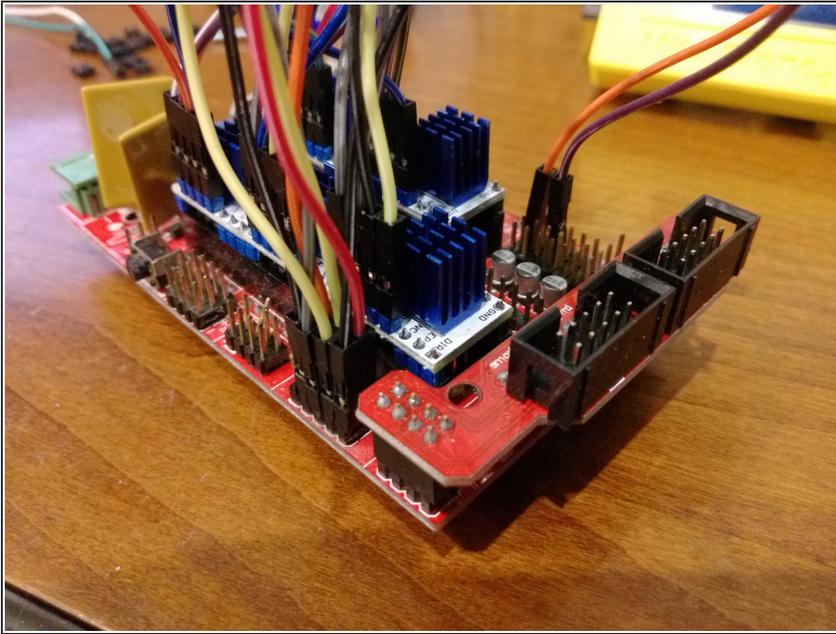
- Insert wisdom here.

## Step 8



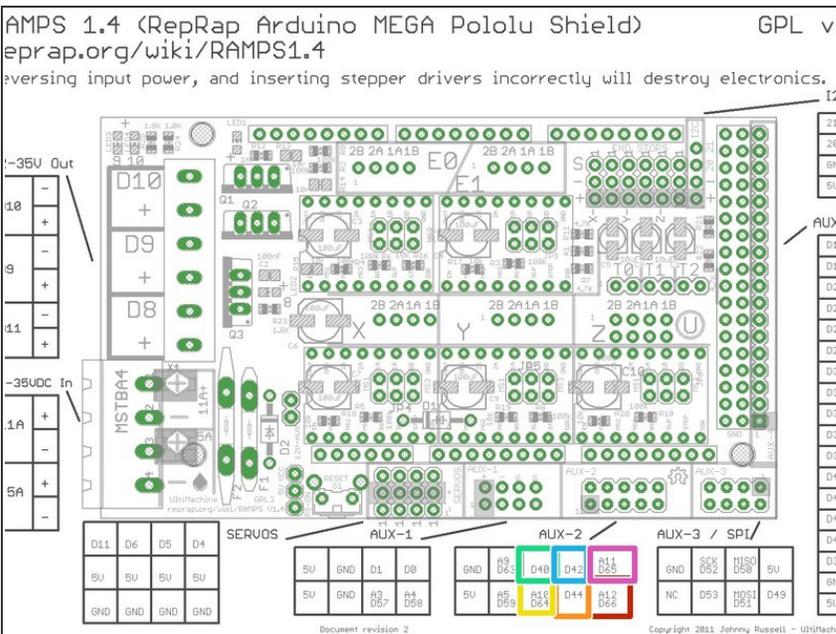
- Insert wisdom here.

## Step 9



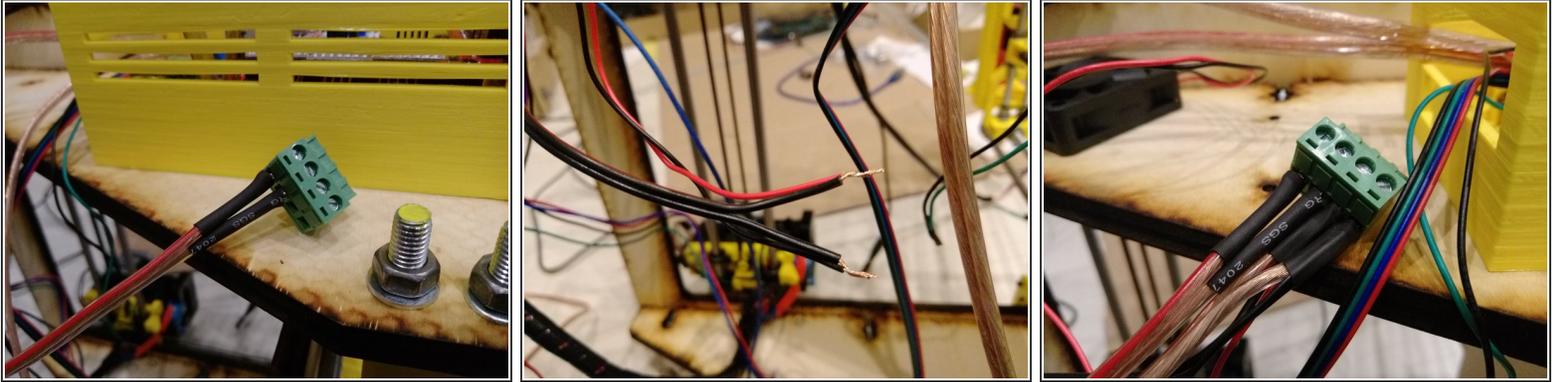
- Insert wisdom here.

## Step 10 — TMC2130 software SPI connection



- MOSI -> SDI on TMC
  - MISO -> SCO on TMC
  - SCK on TMC
  - CS X (X-Axis)
  - CS Y (Y-Axis)
  - CS E (E0 Axis)
- ⓘ Connect the pins described above to TMC2130 stepsticks using the cables prepared before

## Step 11



- Insert wisdom here.

## Step 12



- I am very sorry that I did not have enough time to finish this manual
- I hope that if you are already here, then you can go with any Prusa i3 (eg. Prusa i3 Rework with RAMPS 1.4) manual, and it will be same - as here mostly the modifications was about the TMC2130 connected in SPI mode
- Hope you will handle this project to the end without any issues :)