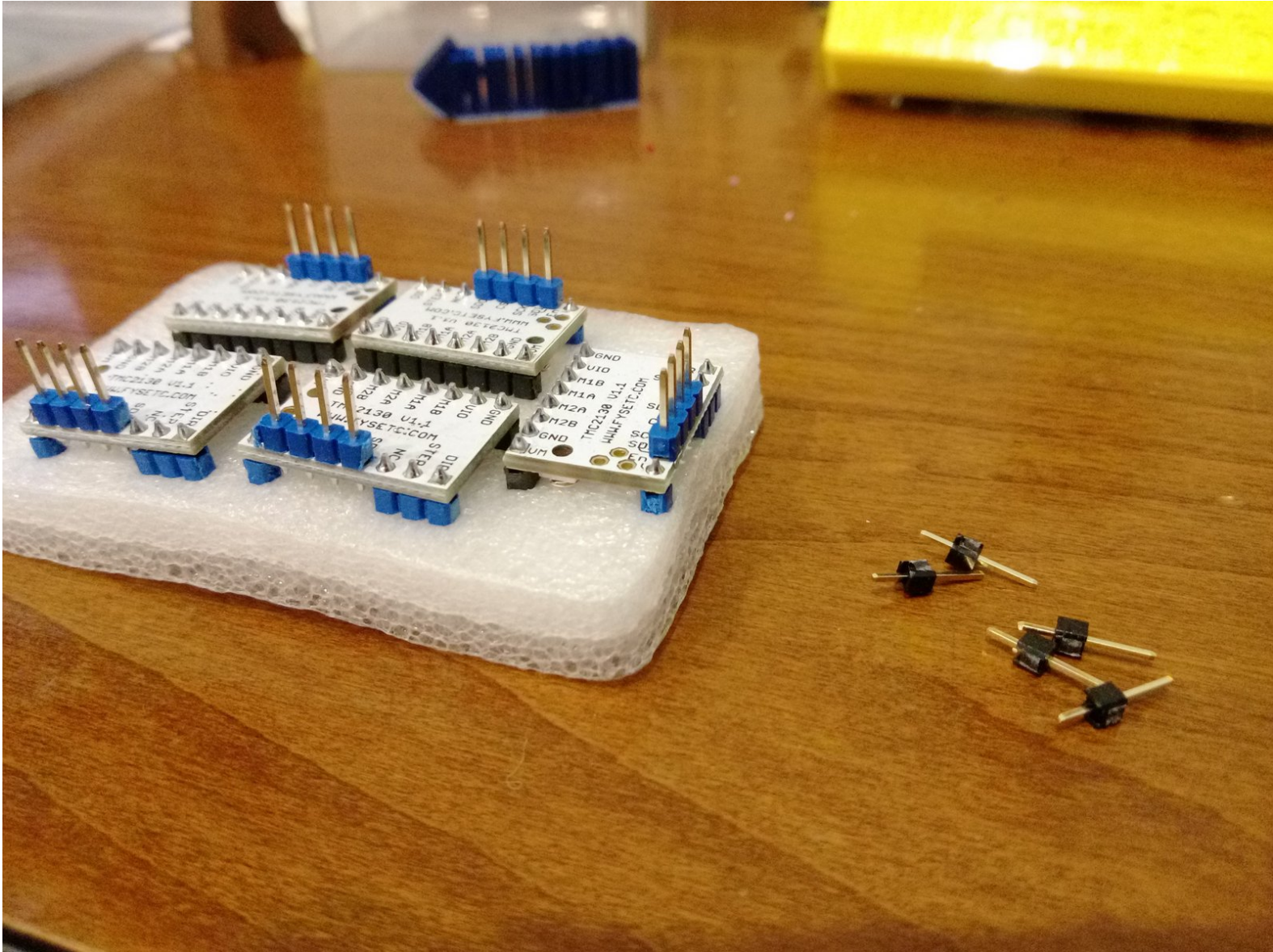


# MK2Clone

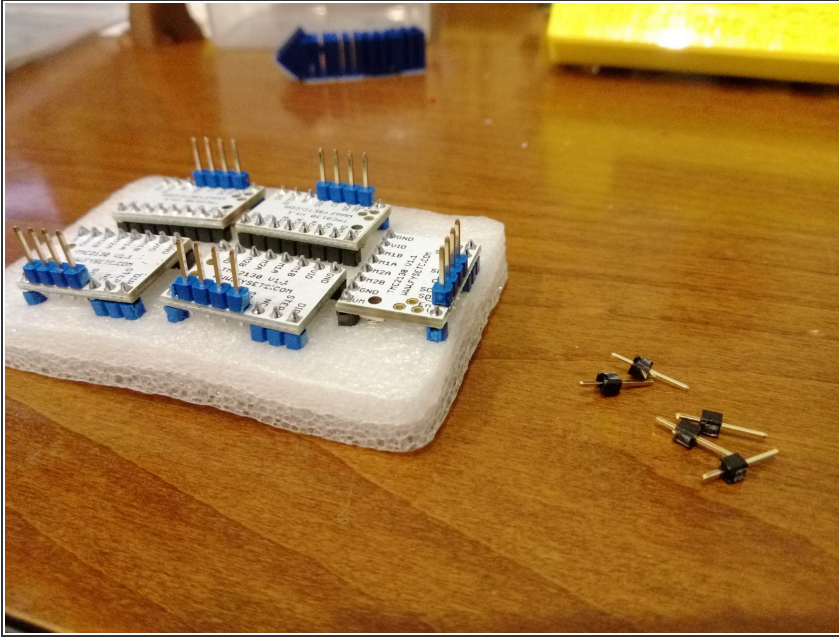
## 8. TMC2130 preparation

This guide is not finished, but from the photos you can get a lot of wisdom ;)

Written By: q3ok

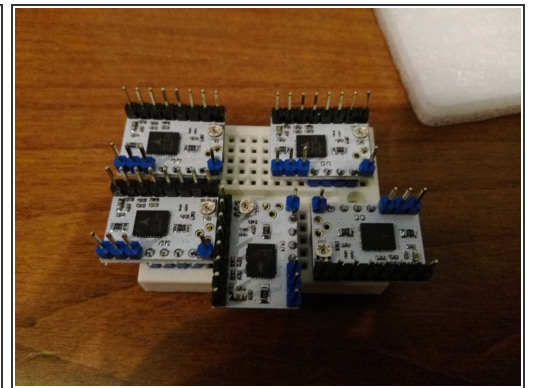
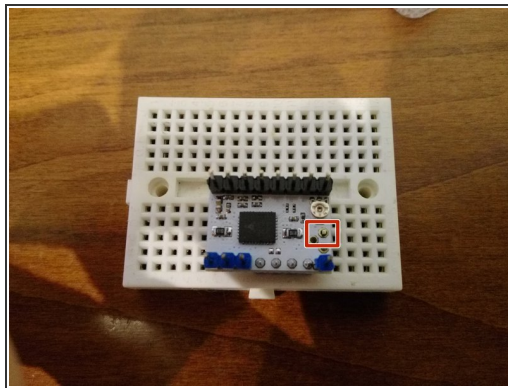
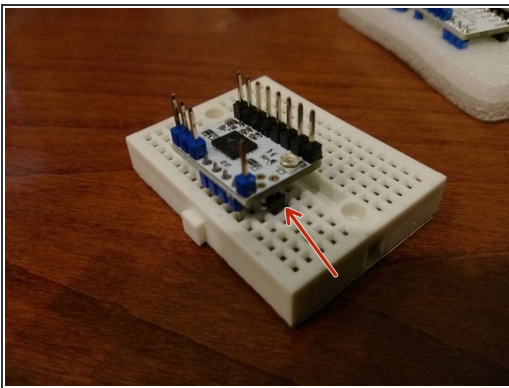


## Step 1 — Prepare all parts



- 5x TMC2130 stepsticks
  - 5x goldpin
  - Cables delivered with the stepsticks (not shown on picture)
  - Heatsinks
- i** If you have any breadboard, it will be very helpful while soldering goldpins on diag1, the guide assumes you have one

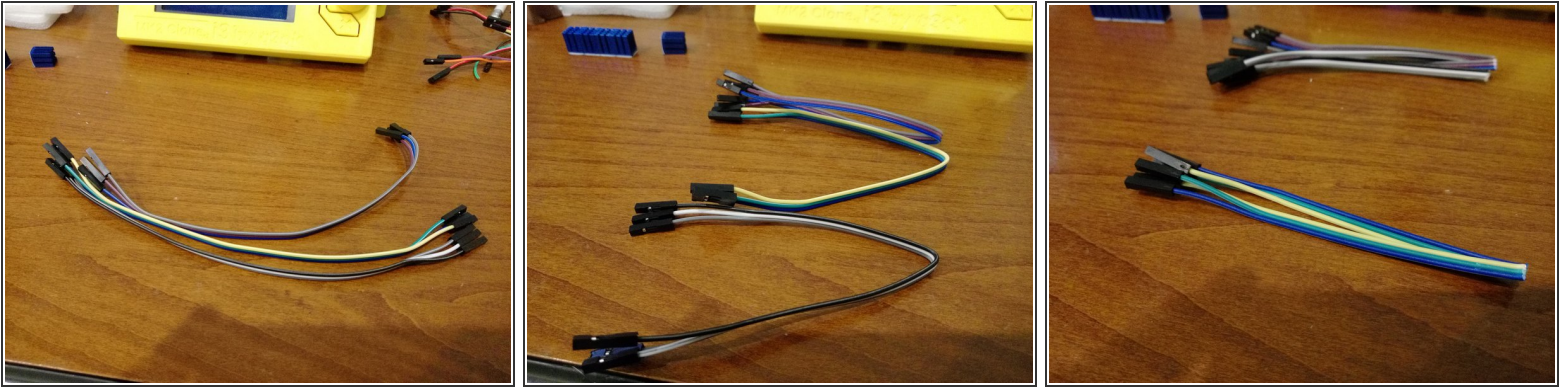
## Step 2



- Put the TMC2130 on breadboard upside-down, inserting for every stepstick one goldpin as shown on image
- i** If you breadboard is big enough, you can put all of the drivers onto it - it will speed up the soldering process

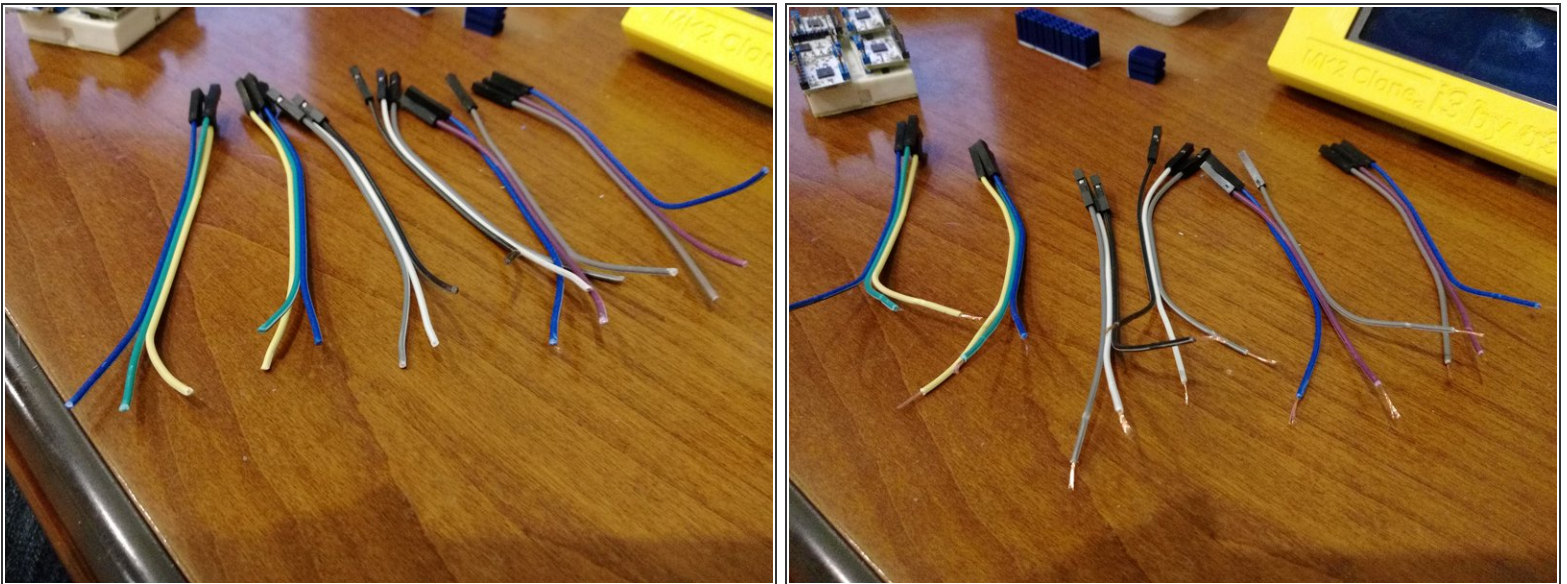


### Step 3



- Prepare 9 dupont cables from the set received from FYSETC with TMC2130v1.1
- Group the cables by 3 as shown on second image and bend it at half length
- Cut all the cables on the bend

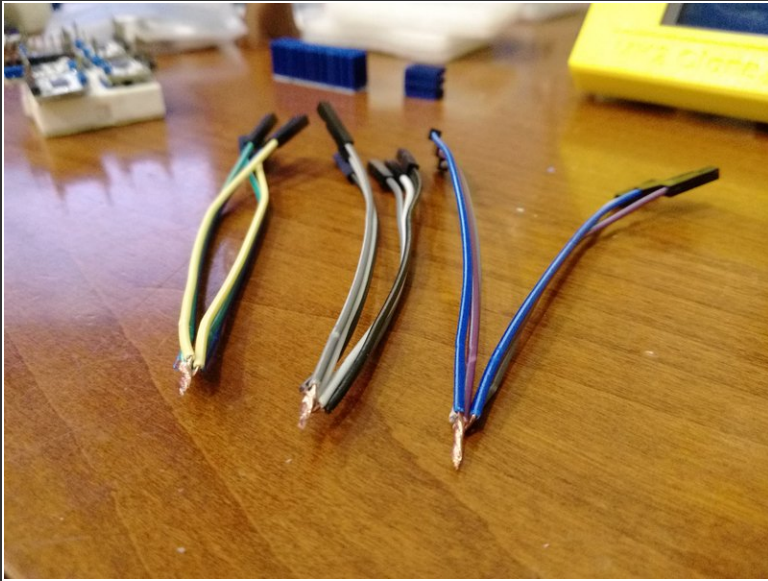
### Step 4



- Remove the isolation on all of the cables as shown on images

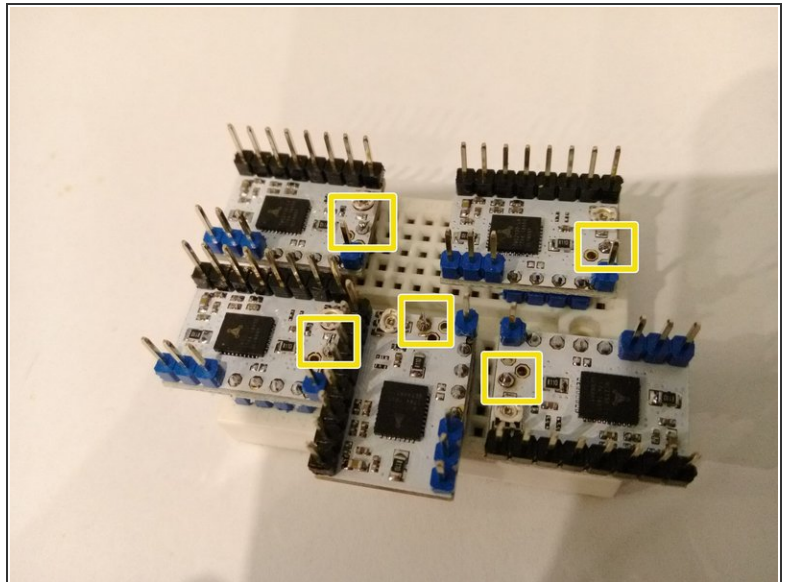
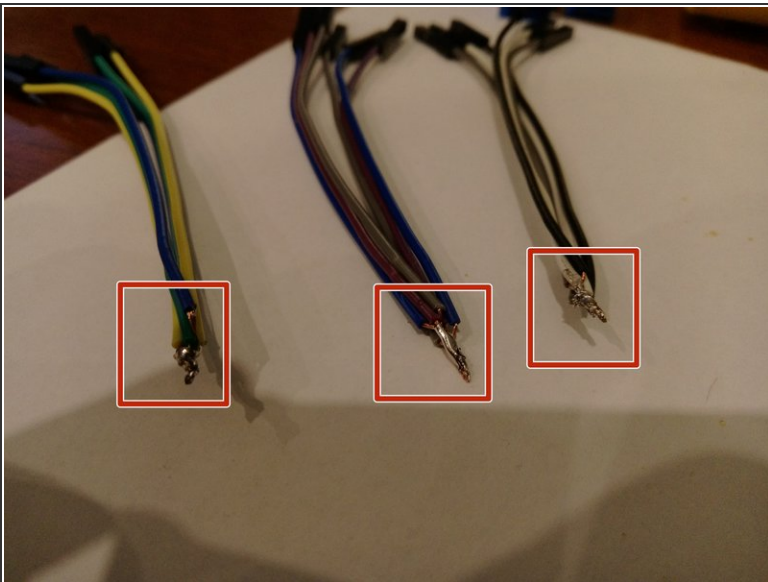


## Step 5



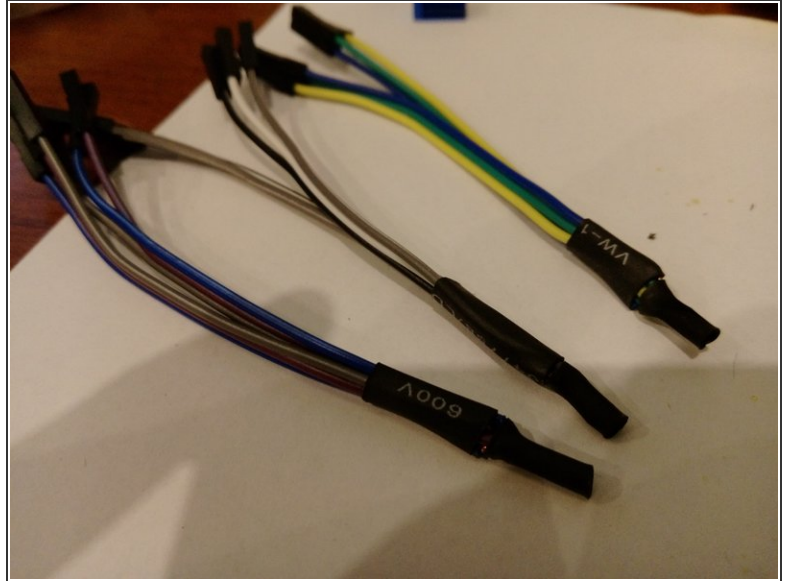
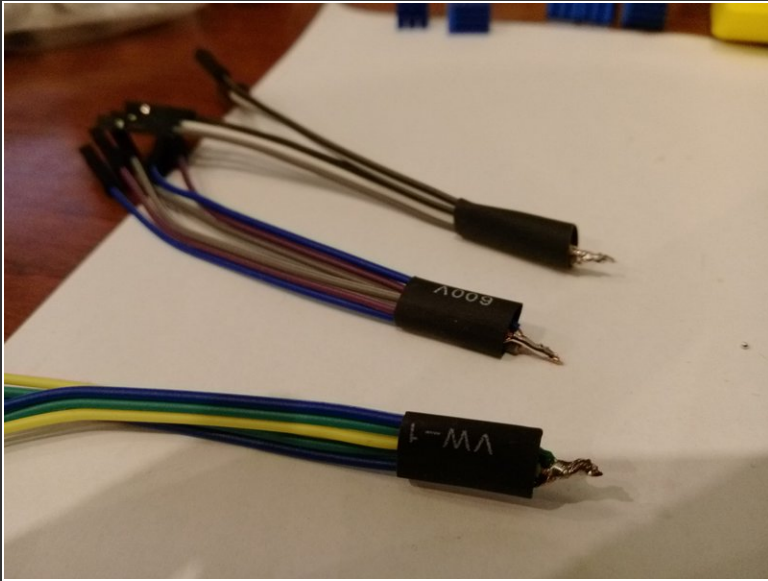
- Group and twist the cables as shown on images, colors doesnt matter

## Step 6 — Soldering fun!



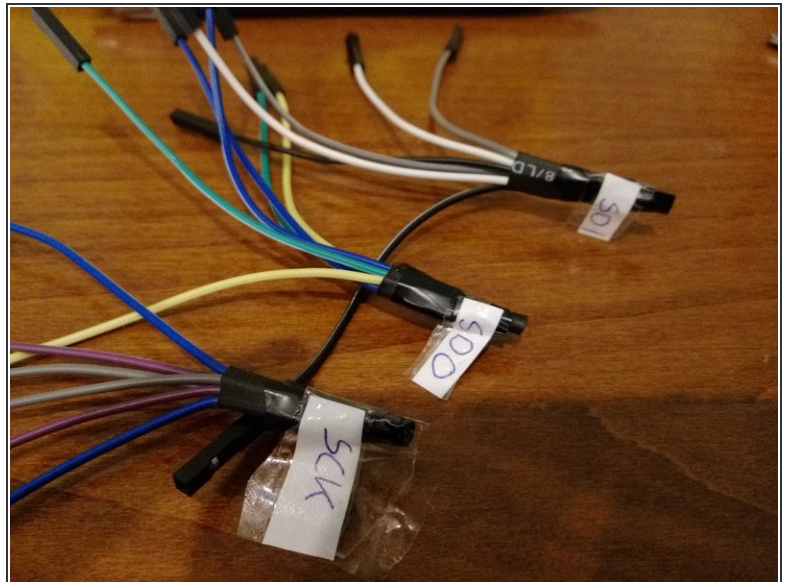
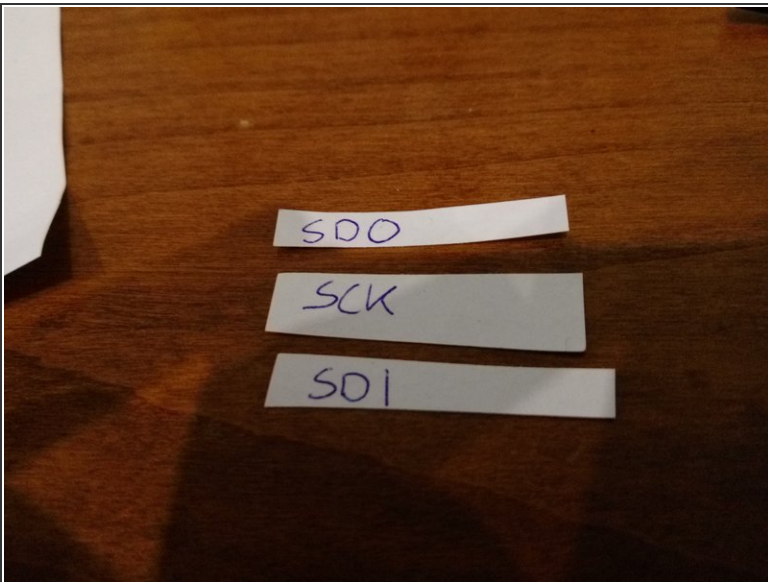
- Solder the cables as shown on images
- Solder the goldpins on TMC2130

## Step 7



- Use heat-shrink tubings to protect the freshly soldered cables

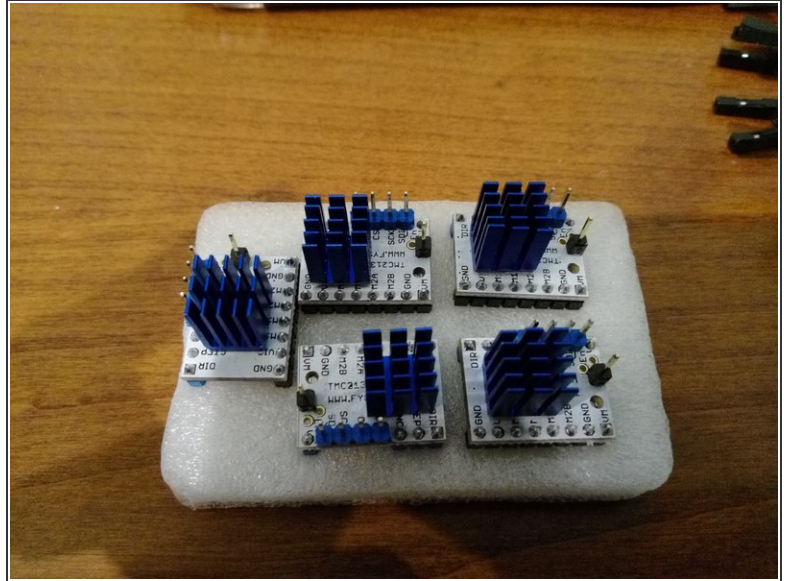
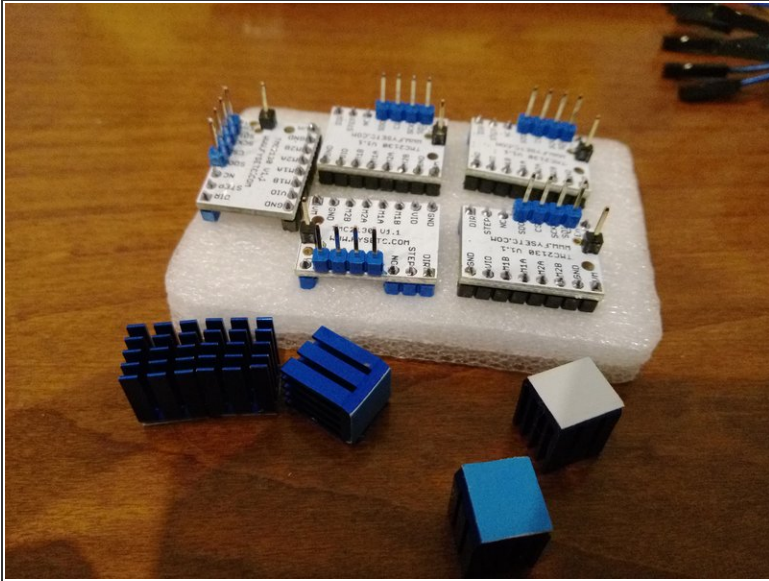
## Step 8



- Prepare three small pieces of paper, write SDI, SCK and SDO on them
- Stick every one of prepared piece of paper on different set of cables (colors of cables doesnt matter)



## Step 9



- Install the heatsinks delivered with TMC drivers on them as shown on images

## Step 10



- This Guide is not finished, but I hope that you got a wisdom from the photos, as well I believe there is many more informations about that in the internet
- Sorrry for not having the time to finish those :(
- Next steps: [9. Electronics assembly](#)