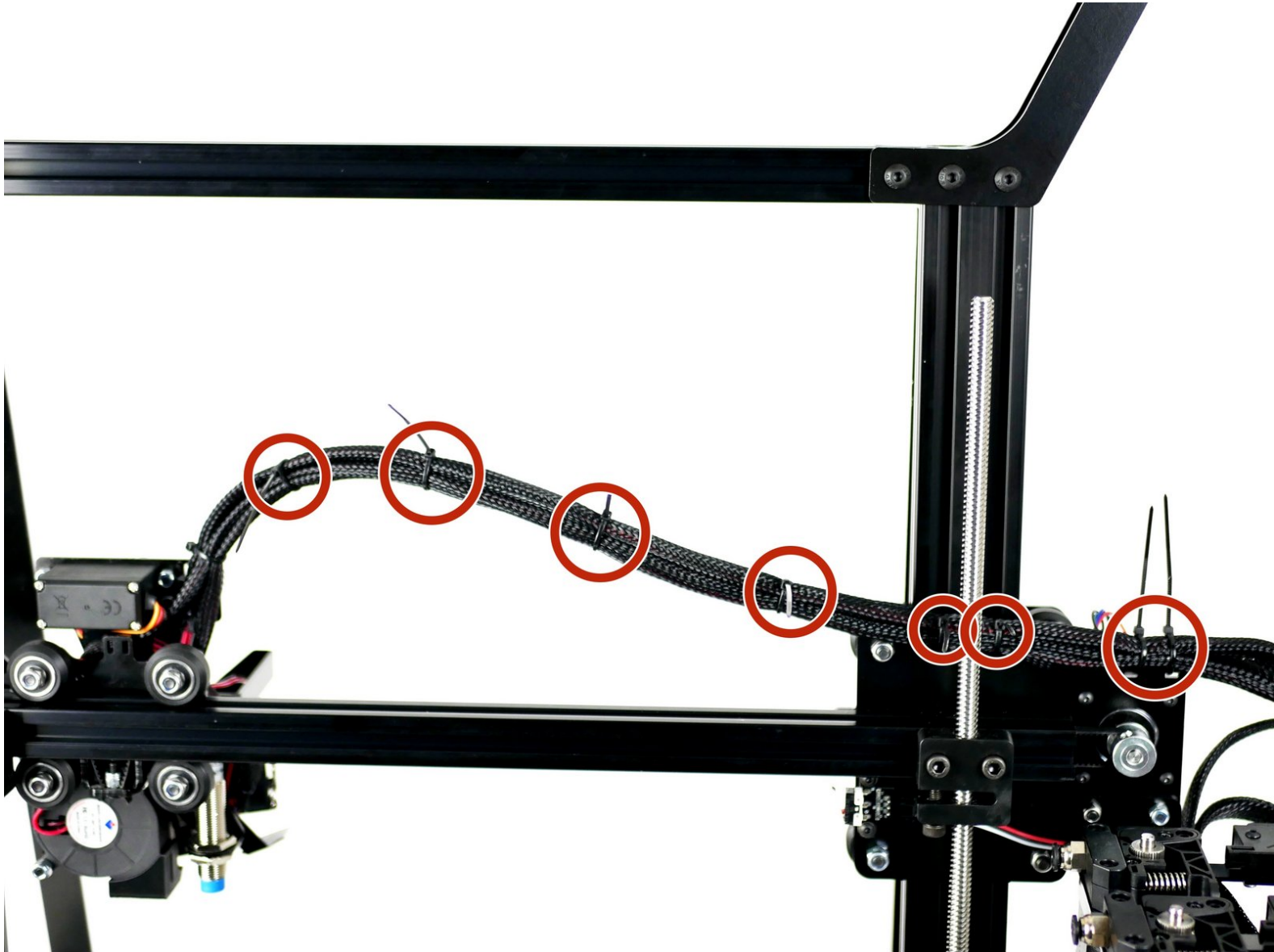


Makertech

DSE Stage 04 - Wiring

Written By: Makertech



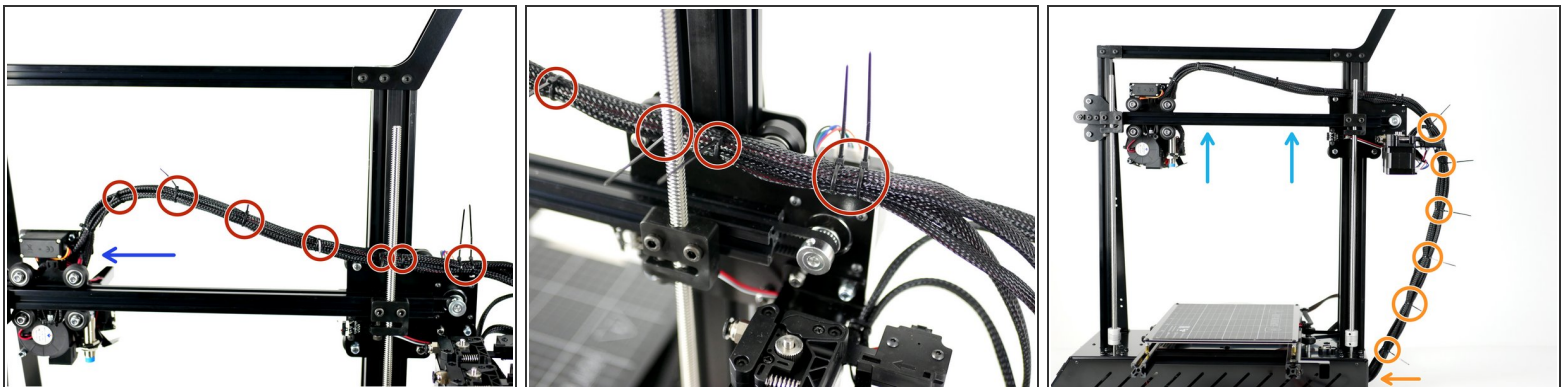
Step 1 — Before starting



Complete this stage:

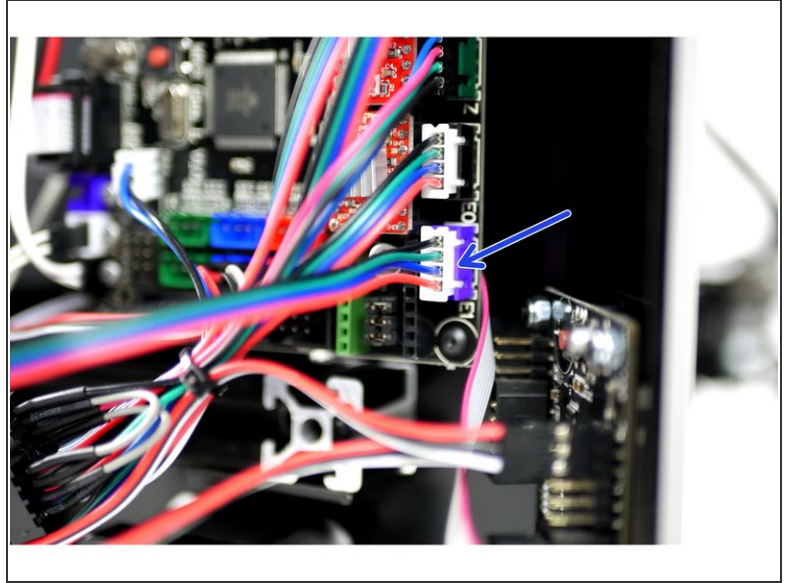
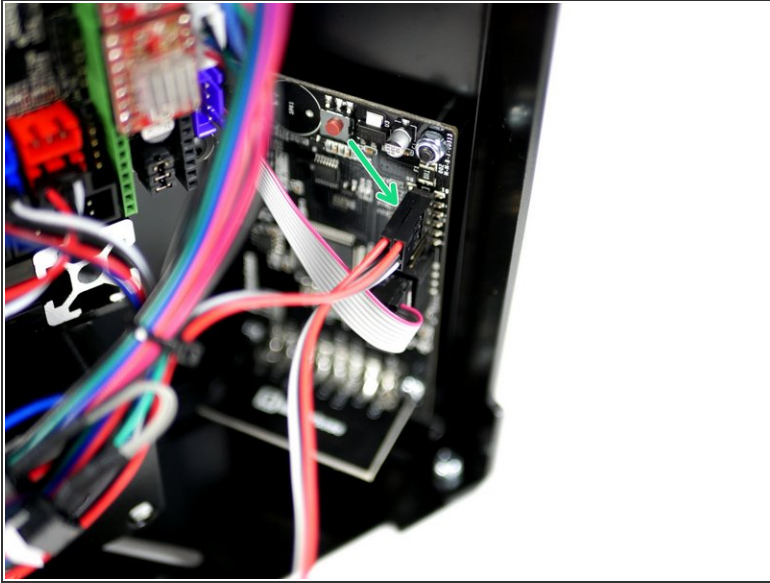
- If you are upgrading from an already built Proforge 2/2S Single Extruder setup.
- **Skip this stage and continue [here](#):**
 - If you are building the Dual Switching Extruder from the Proforge 2/2S build guides

Step 2 — Cable Tying



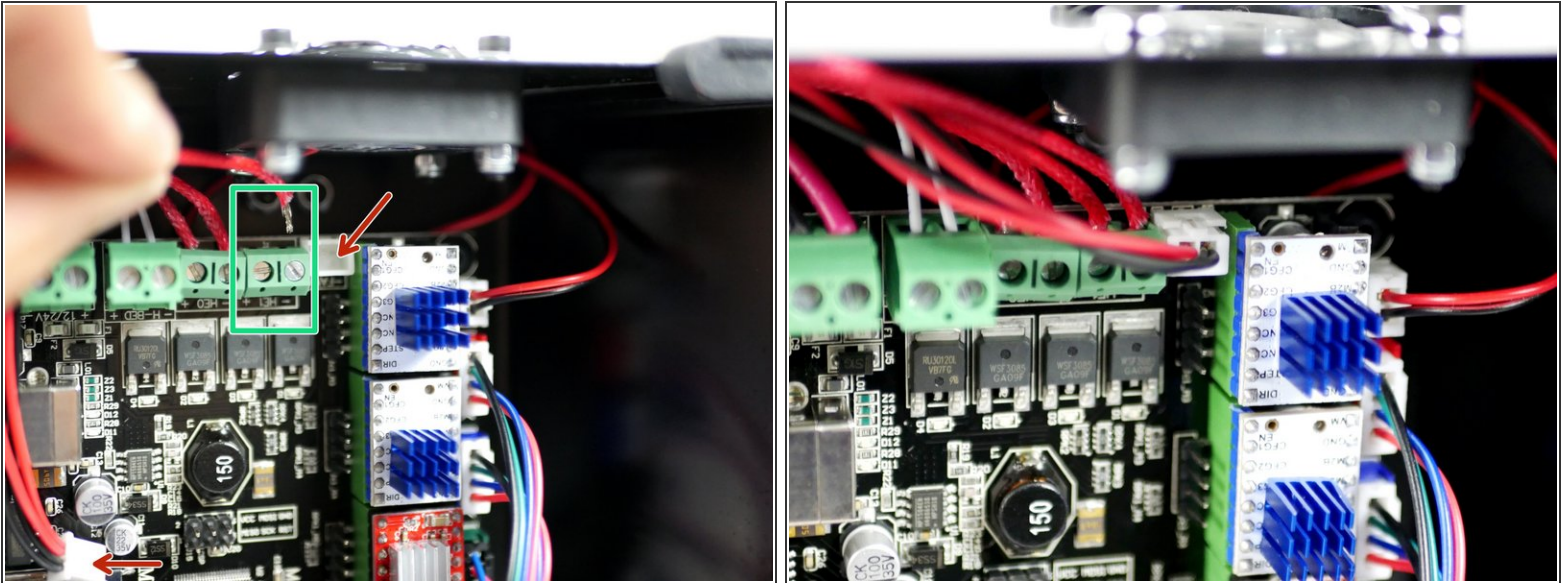
- Push the Extruder Carriage out as far as it will go.
- Use cable ties to bunch together the cables up to the Z-axis Bracket.
- Raise the gantry to its highest position on the frame.
- Use cable ties to bunch together all of the cables down to the base and feed into the base through the square hole.

Step 3 — Extruder Wiring



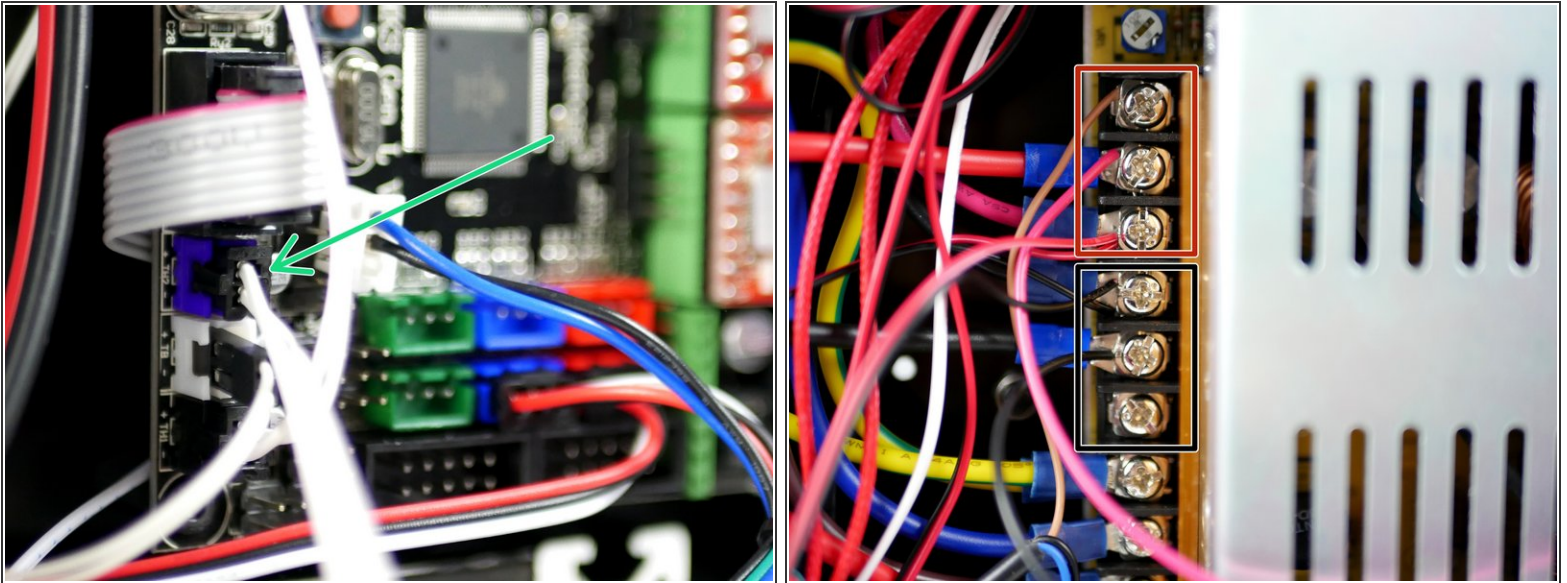
- Connect the 2nd filament sensor cable to the touch screen.
- Connect the 2nd extruder motor cable to the main board in the E1 position.

Step 4 — Second Hotend Wiring



- Connect the Hotend heater cables to the electronics board.
- Unplugging the print fan cable for the board should give you better access.
- ☞ If you're struggling to get the cables in, removing the electronics board from the base will give you better access to the terminals.

Step 5 — Second Hotend Wiring Cont.



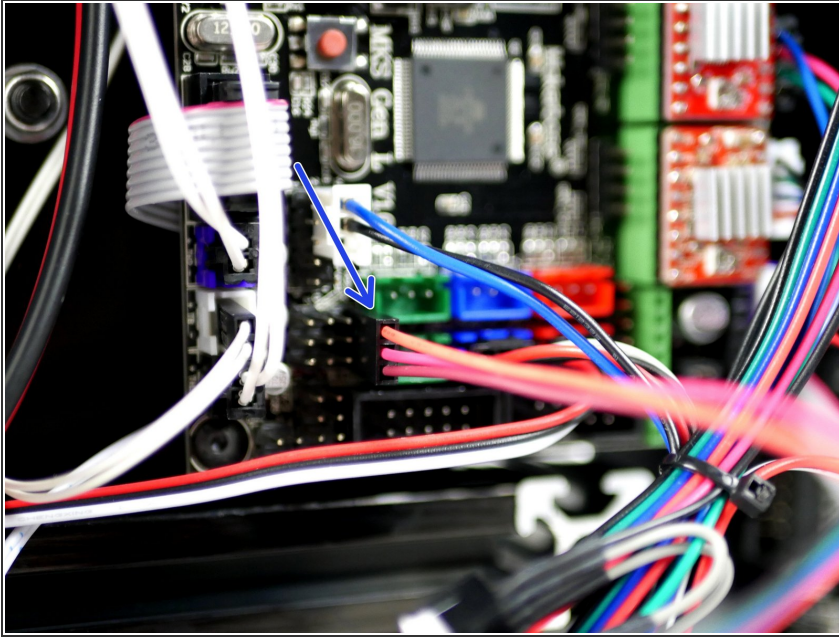
- Connect the hotends thermistor to the electronics board (TH2).
- ⓘ Connect the hotends fan cables directly to the power supply terminals.
 - Red to Positive
 - Black to Negative

Step 6 — Tidying the Hotend Cables



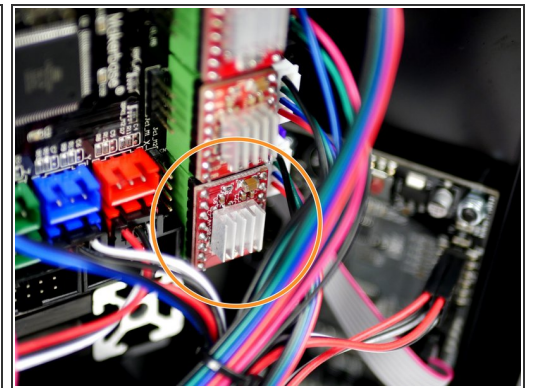
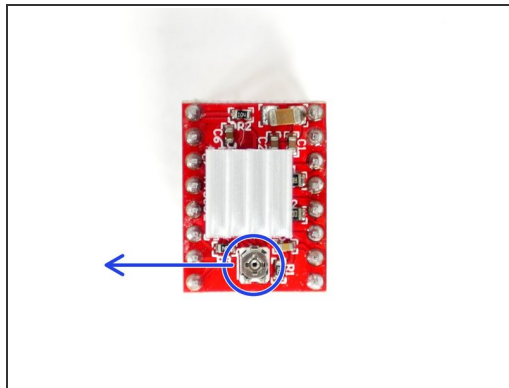
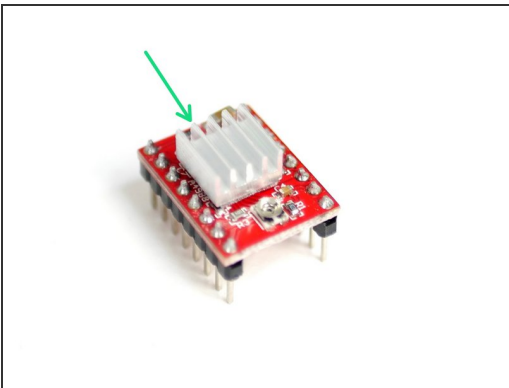
- Cable tie together the Hotend cables making sure not to have any sharp bends in the cables.
- Tuck the cables in between the side panel and power supply.
- Cable tie the cables to the power supply to hold in place.

Step 7 — Servo Cable



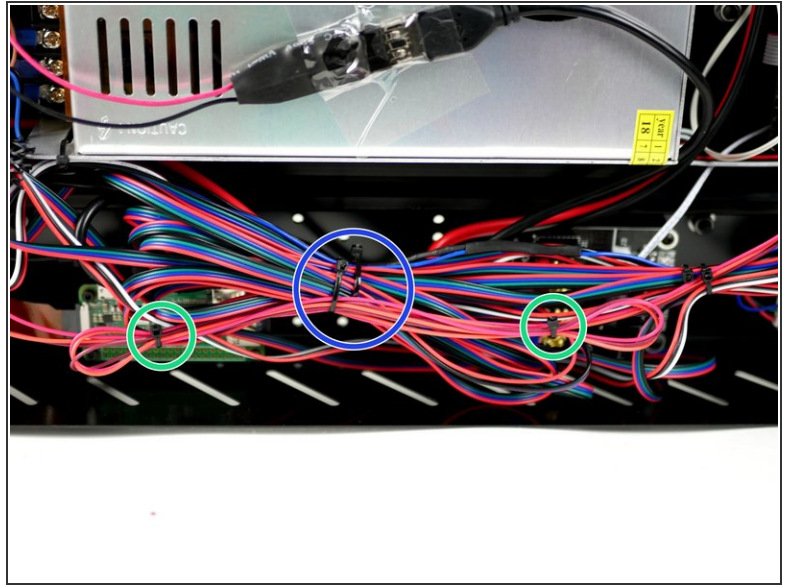
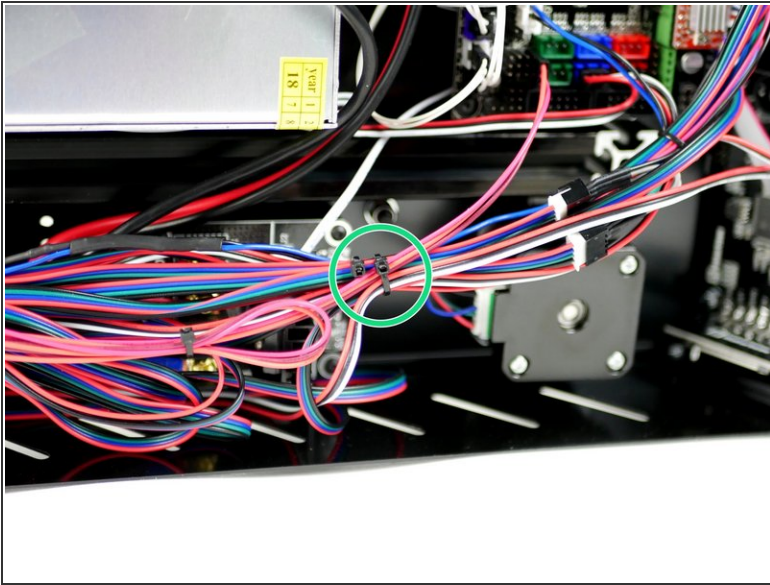
- Connect the servo cable to the electronics board like shown.

Step 8 — Stepper Driver



- Prepare the A4988 Stepper Driver by sticking the heatsink to the black chip on the driver.
 - ☑ Make sure that the heatsink is not touching any of the pins. Orient the fins of the heatsink as shown.
 - Adjust the trimpot so that the flat side is facing left, like shown in the second image.
 - Fix the stepper driver onto the electronics board, matching the orientation shown in the third image.
- ⚠ Installing a stepper driver the wrong way round will destroy it.

Step 9 — Tidying the Cables



- Use cable ties to loop and tie the loose cables.
- Cable tie this loop to the original loop.