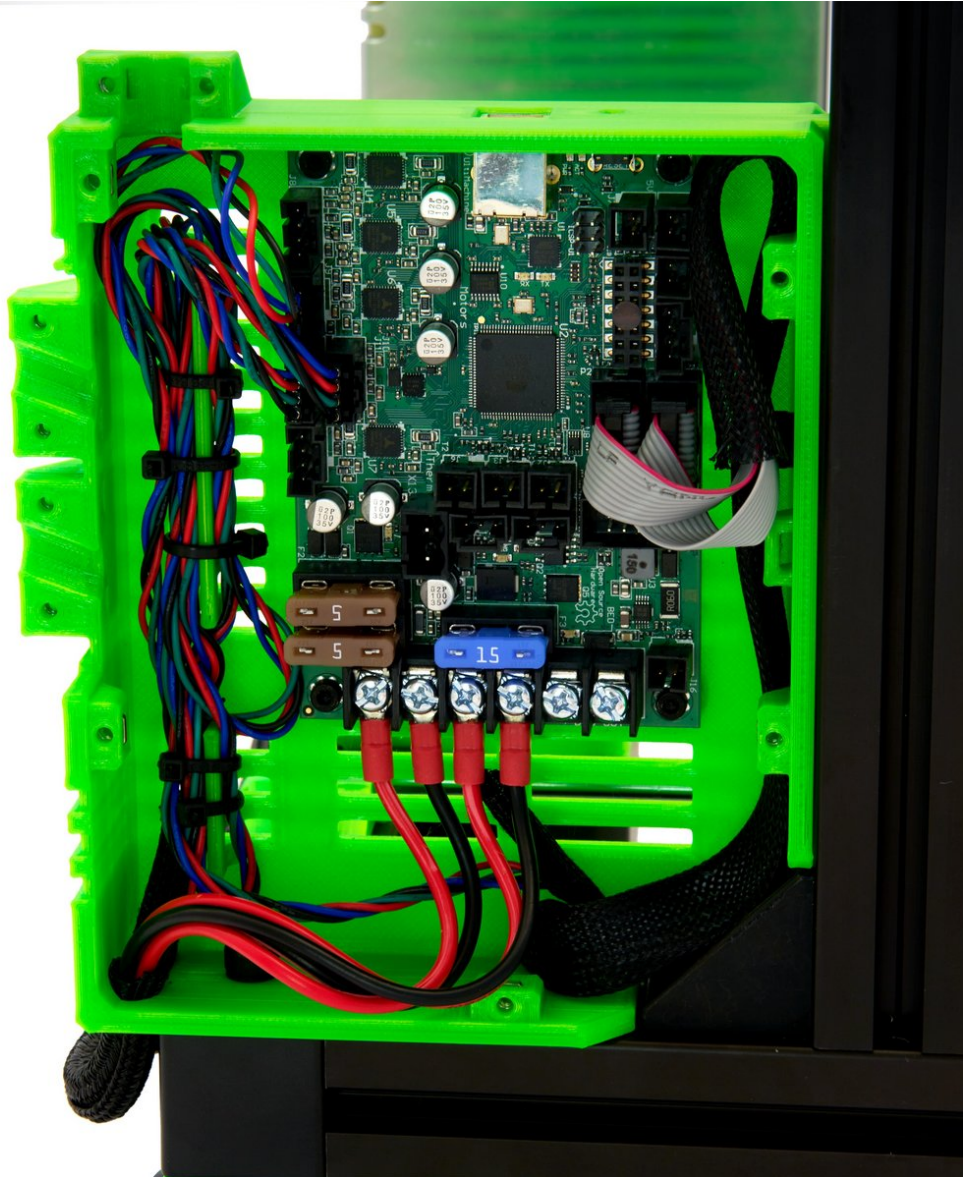


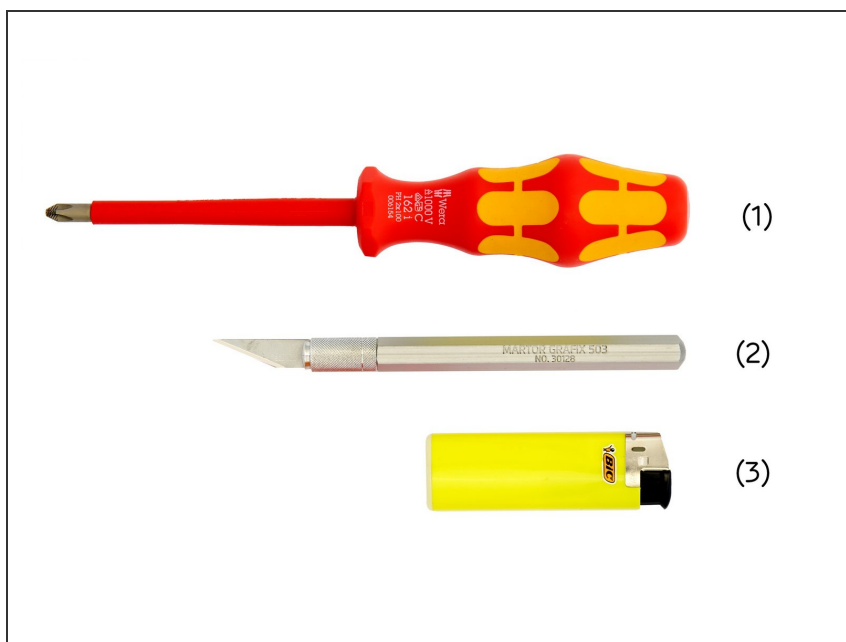
caribou3d

10. Wiring of the Motors and the PSU

Written By: Katja Aller



Step 1 — Required Tools



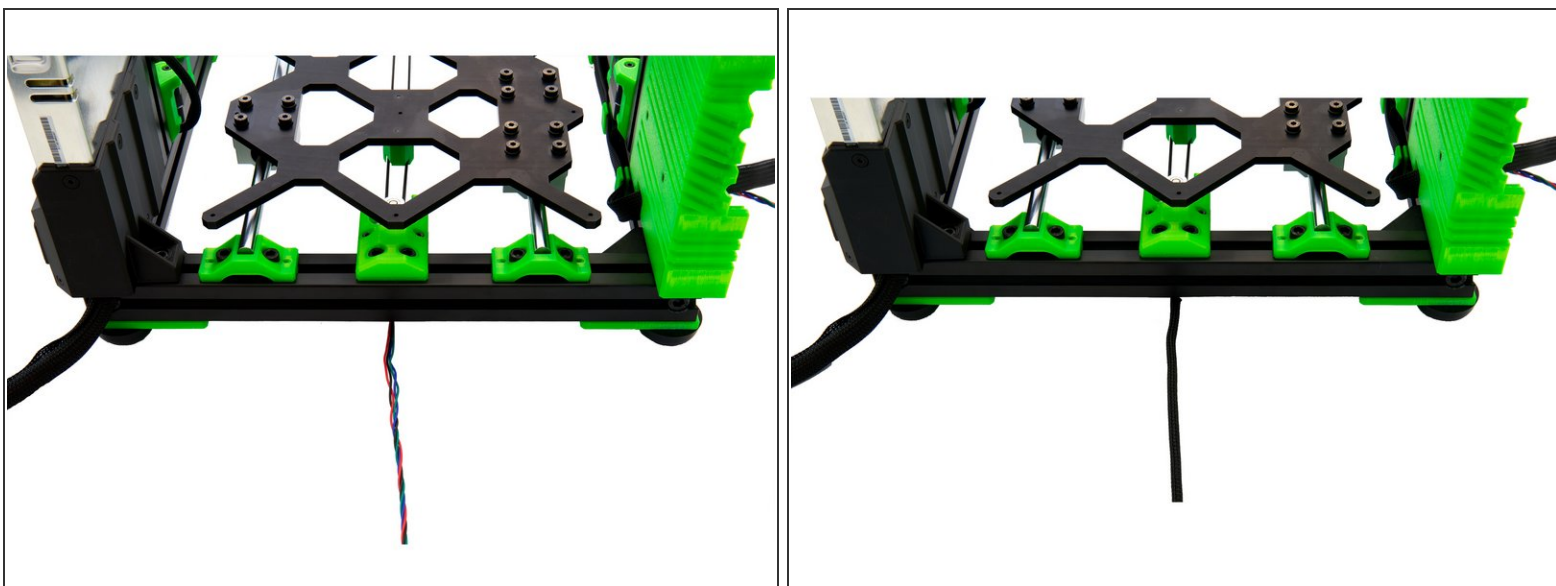
- (1) [PH2x100mm Screwdriver for Phillips Screws](#)
- (2) Scalpel
- (3) Lighter

Step 2 — Assembling the Parts



- (1) [5cm Slot Cover](#)
- (2) **4x** PSU Cable Clips
- (3) [Techflex Cable Tube \(25cm Diameter 3,2mm\)](#)
- (4) [Zip Ties](#)

Step 3 — Preparing the y-Motor



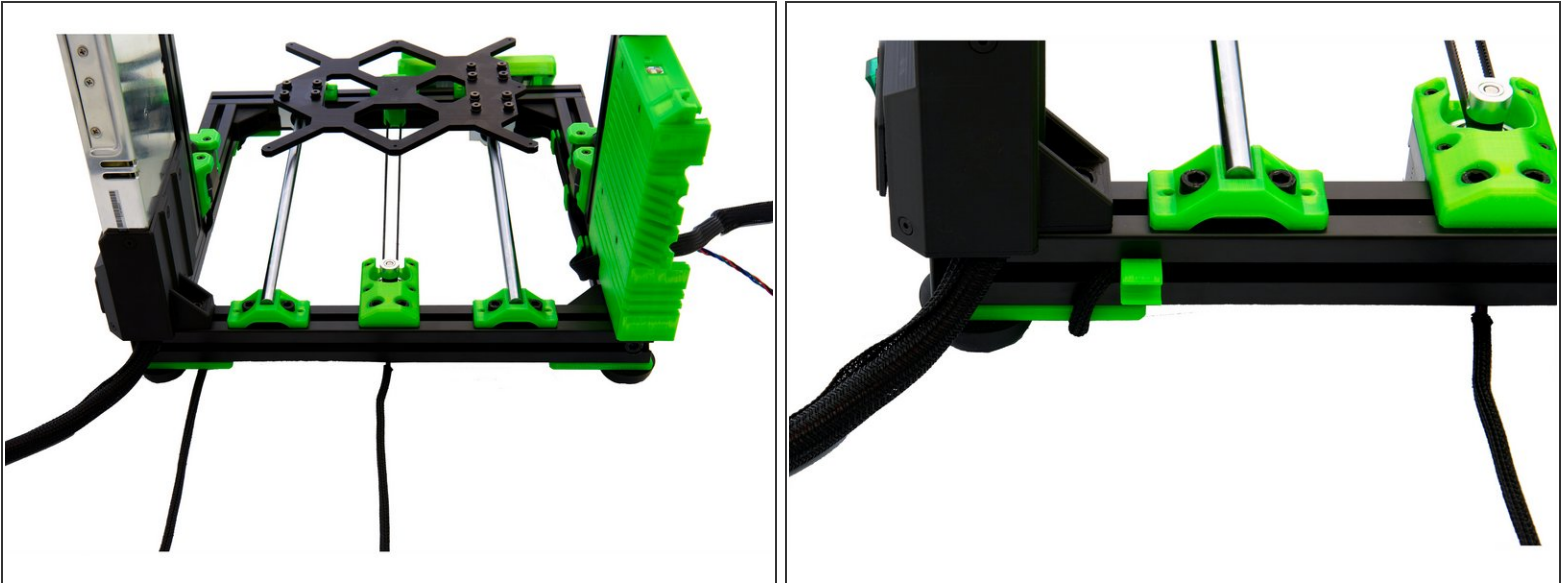
- Take the Techflex tube and briefly heat both ends with a lighter.
- Now push the motor cable of the y-motor through the 25cm Techflex tube.

Step 4 — Wiring the Motors (1 / 3)



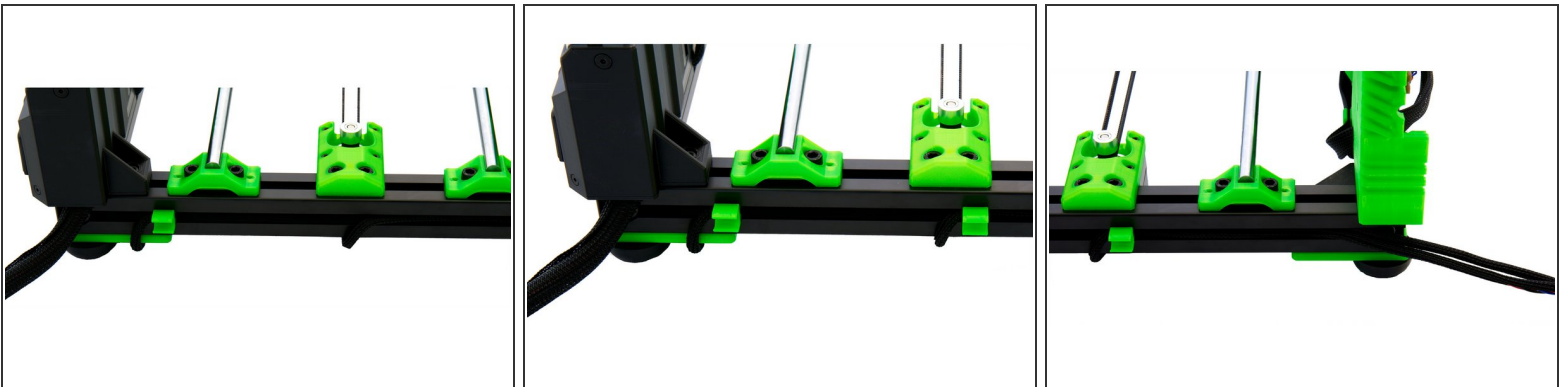
- Cut off (e.g. using a scalpel or sharp knife) an approximately 5cm long piece of the slot cover
- Press the cables of the right z-stepper motor into the left slot of the right y-extrusion and cover the cable with the slot cover.
- Rotate your frame horizontally by 180°.

Step 5 — Wiring the Motors (2 / 3)



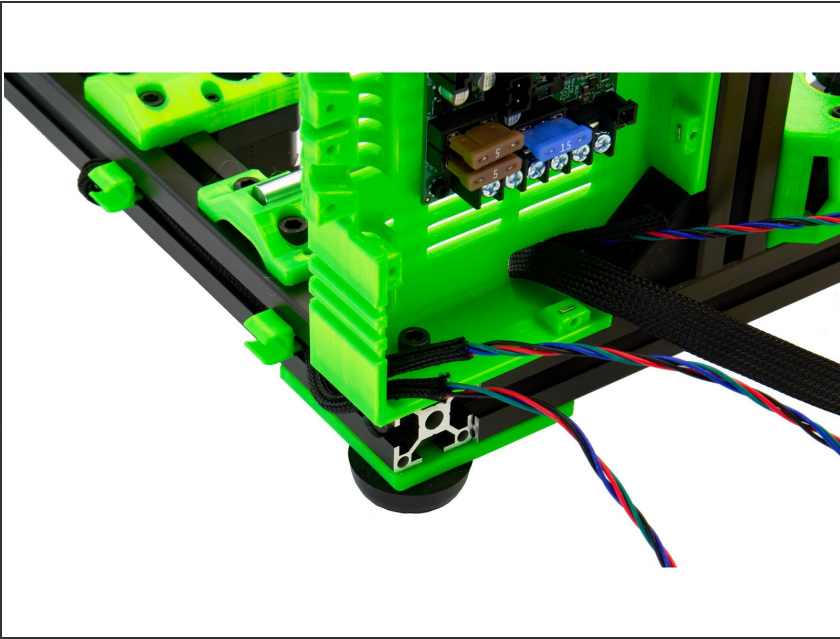
- Pull the cable of the right z-stepper motor past the L-bracket, through the rear slot of the rear x-extrusion, and into the Einsy box.
- Secure the cable in the slot using a cable clip.

Step 6 — Wiring the Motors (3 / 3)



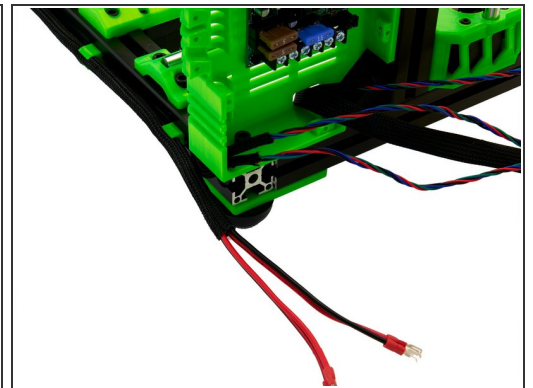
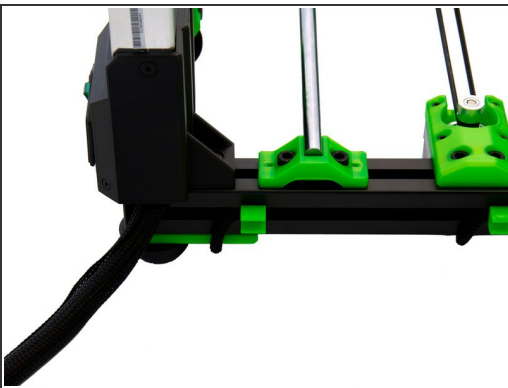
- Also push the cable of the y-motor into the rear slot and route the cable until it reaches the Einsy Box.
- Secure the cables with the remaining power supply cable clips.

Step 7 — Wiring the PSU (1 / 4)



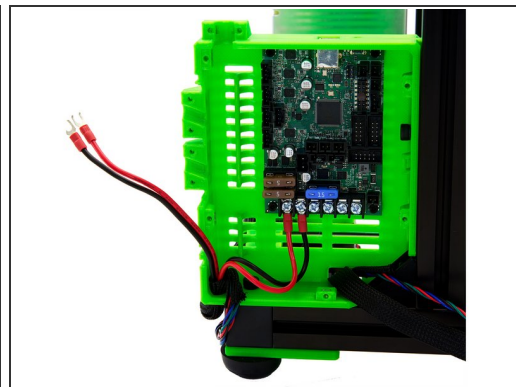
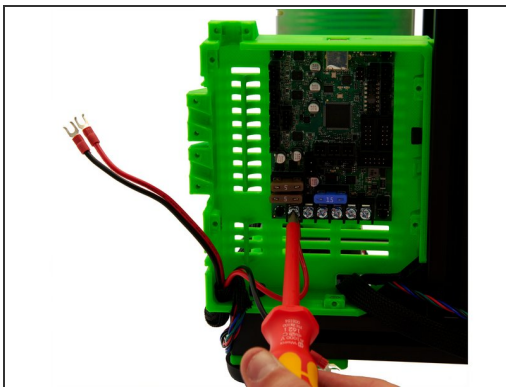
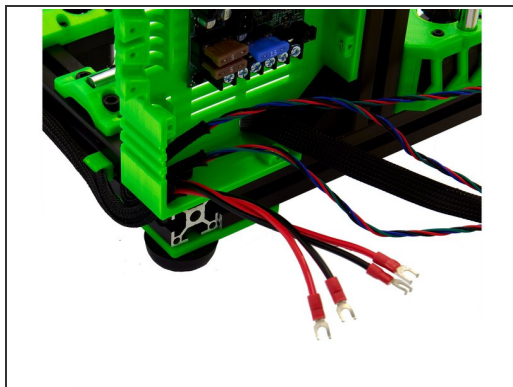
- Now, guide the two Techflex tubes of the motor cables through the hole in the bottom of the Einsy Box.

Step 8 — Wiring the PSU (2 / 4)



- Press the Techflex tube with the PSU cables into the cable clips already attached to the back of the x-extrusion.

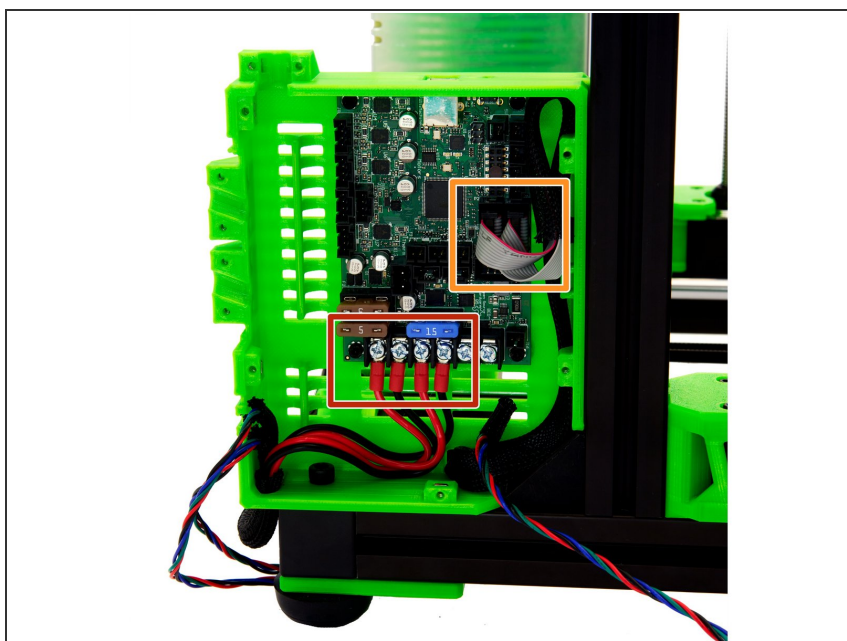
Step 9 — Wiring the PSU (3 / 4)



- Pull the PSU cables from below through the hole into the Einsy box as well.
- Attach the PSU cables to the four left connectors using a PH2 Phillips screwdriver (see Figure 3).
- ⓘ These screws may have to be loosened beforehand.

⚠ Pay attention to the colors of the cables and follow the instructions in Fig. 3. A mistake in the wiring can lead to a short circuit!

Step 10 — Wiring the PSU (4 / 4)



- Now connect the second pair of PSU cables to the Einsy board as shown.
- Now connect the two display cables to the board.
 - Cable 1 right
 - Cable 2 left

Step 11 — Wiring the Motors



- Pull three motor cables to the left side of the Einsy Box and fasten them to the cable holder with zip ties.
- Now plug the motor cables into their respective connectors.
 - The z-motors are plugged into the double connection.
 - The y-motor is plugged into the second connection from the top.

Step 12



- ① The wiring of the motors and the PSU is now complete.
- ① Continue with instructions [11. Installation of the Heatbed.](#)