



6. LCD assembly

LCD controller assembly

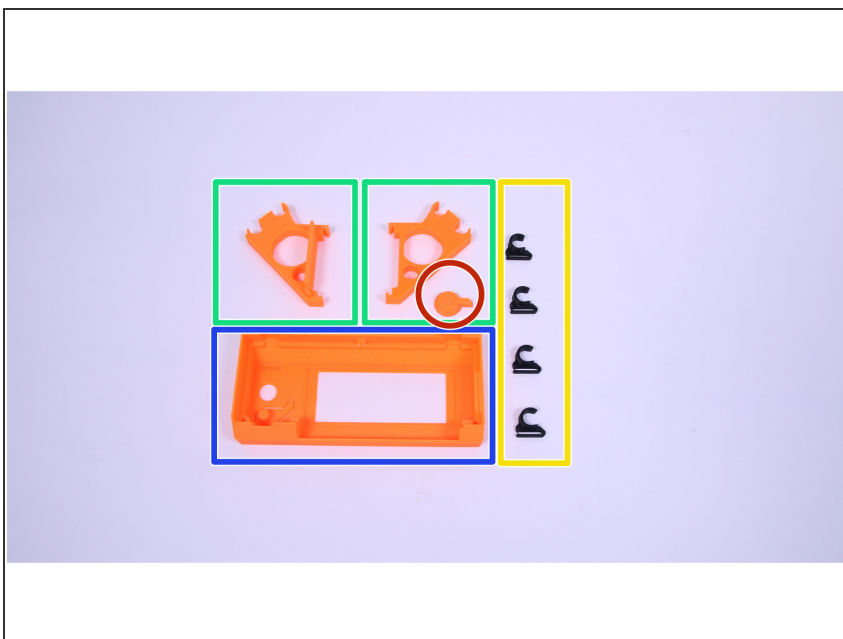
Written By: Josef Prusa

Step 1 — Get the necessary tools



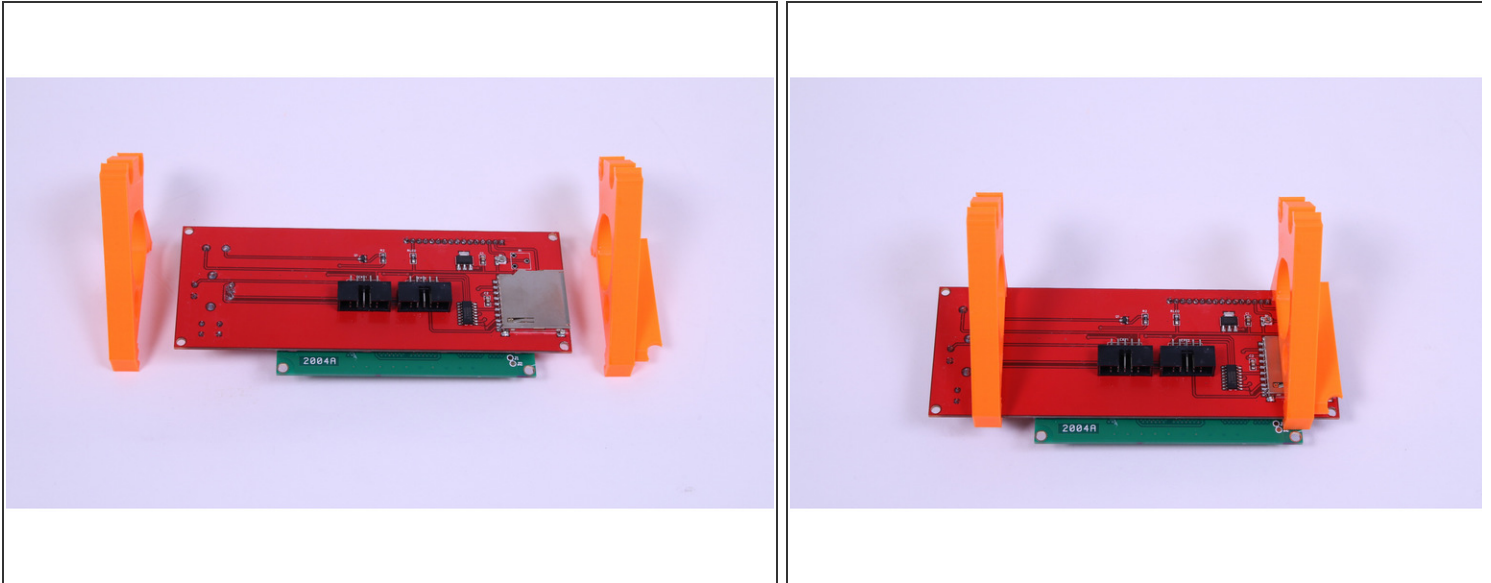
- Needle-nose pliers
- 2.5mm Allen key

Step 2 — 3D printed parts



- LCD-cover
- LCD-knob
- LCD-support
- LCD-cable-clip


Step 3 — Preparing the LCD support for assembly





- Prepare the LCD controller and LCD-support printed parts as shown in the picture.

 Ensure the correct orientation of parts and the LCD controller.

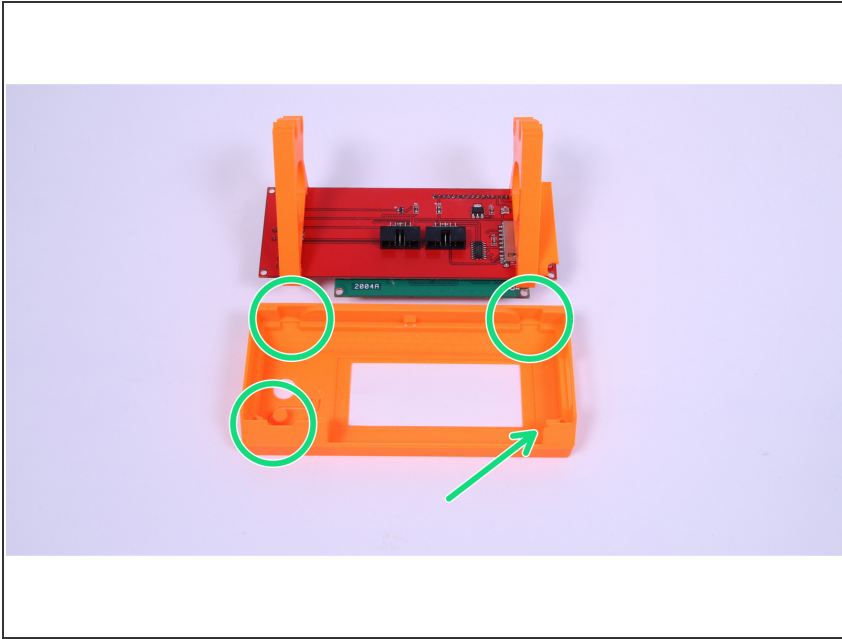
- Slide the LCD-support parts on the LCD-controller.

 The exact position will be adjusted in the next step, no need to worry at this moment.

 You can now remove the protective foil from the LCD panel.

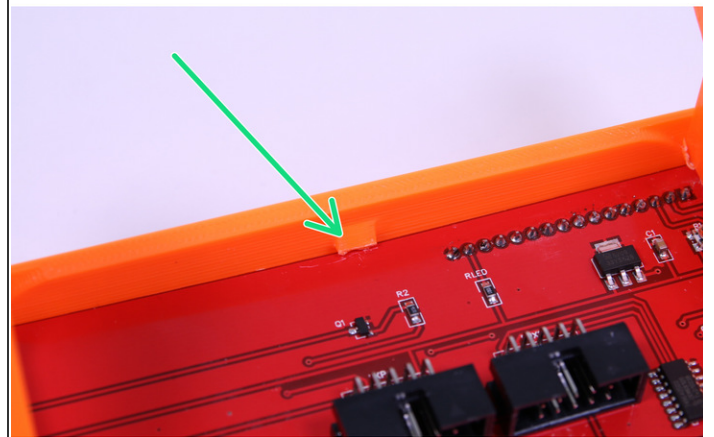
 Cables are plugged to the LCD from the factory, but you can disconnect them.

Step 4 — Adjusting the LCD-support



- Adjust the LCD-support parts as shown in the picture.
- LCD-support parts must face directly into the cutouts in the LCD-cover.

Step 5 — Assembling the LCD-cover



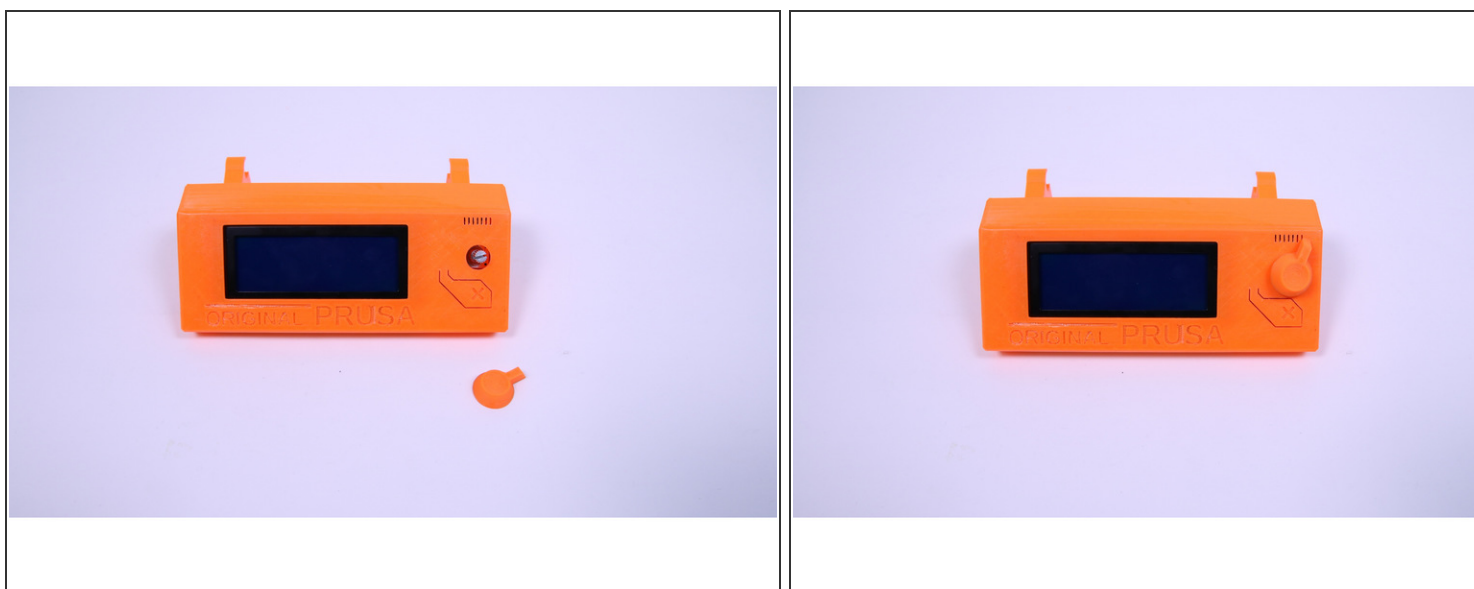
- Press the LCD controller with the LCD-support into the LCD-cover as shown in the picture.
- Press it as deep as possible.
- The LCD controller must click under support in the center of the LCD-cover.

Step 6 — Securing the LCD controller



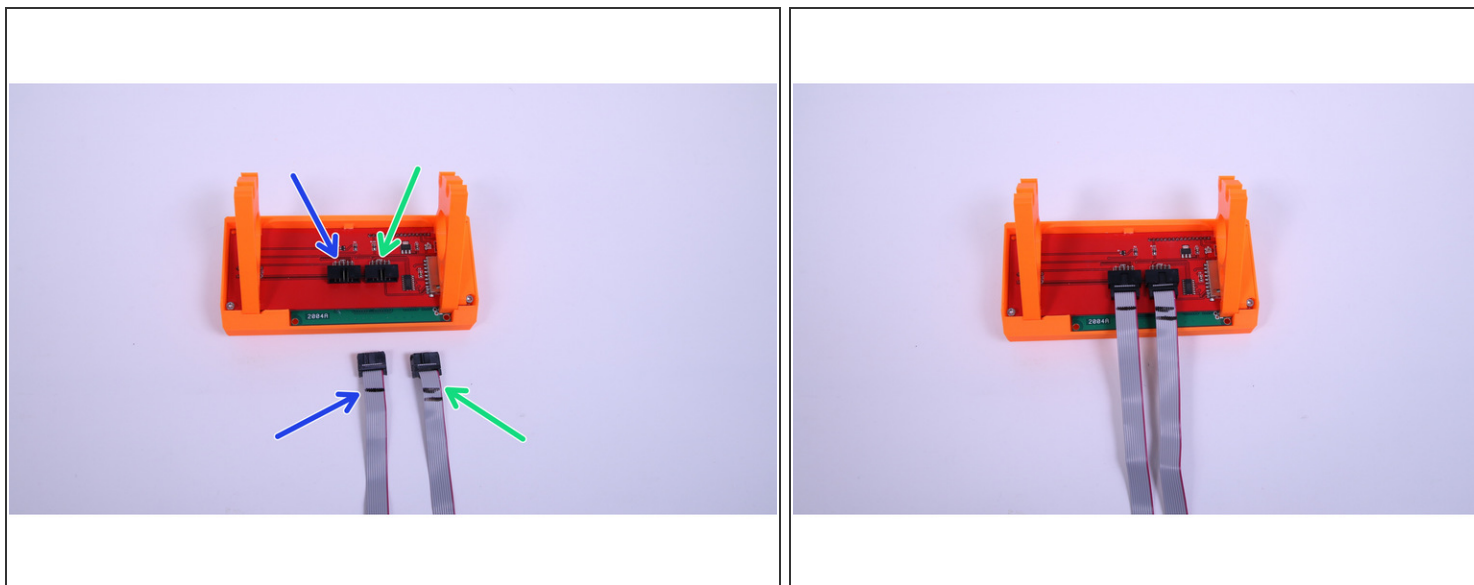
- M3x10 screws (2 pcs)
- Using the 2.5mm allen key, secure the LCD controller in place.

Step 7 — Assembling the LCD knob



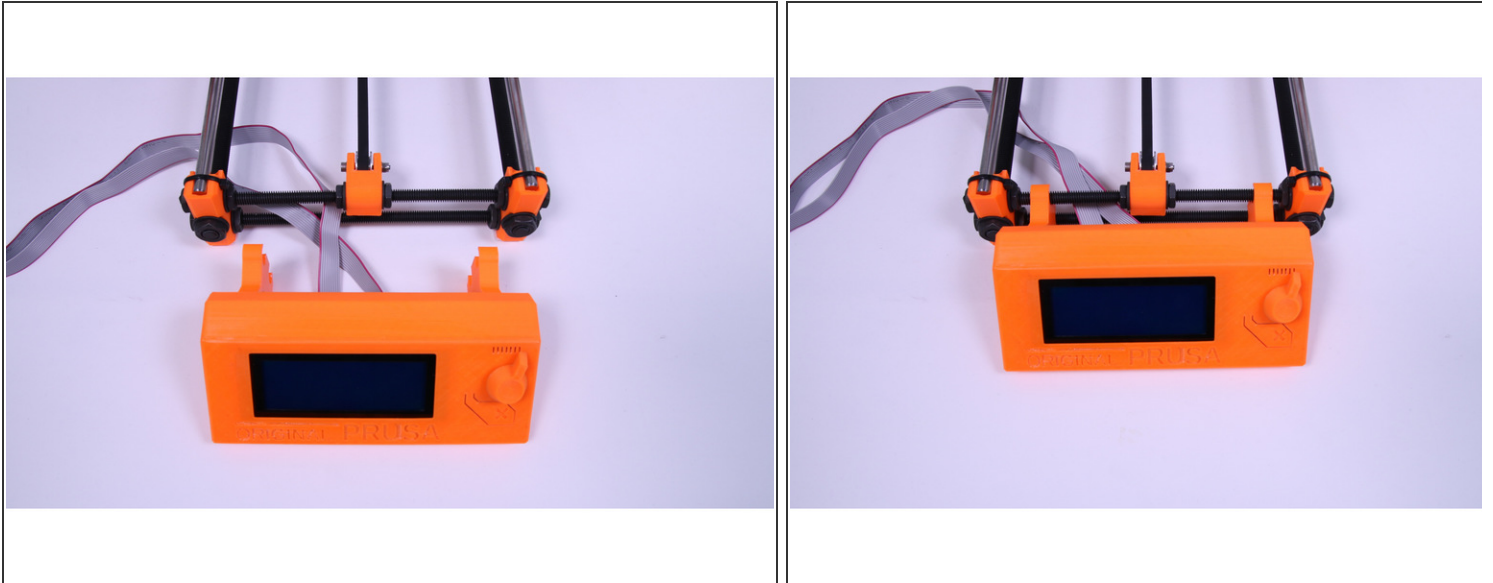
- Assemble the LCD-knob part as shown in the picture.

Step 8 — Plug in the cables



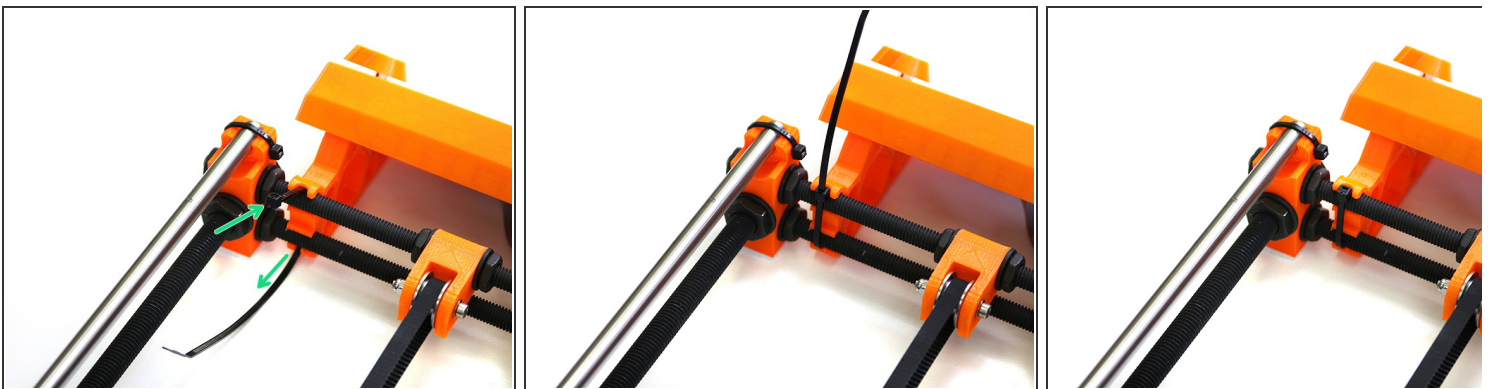
- Plug in the cables as shown in the picture.
- Cable with 1 stripe has to be plugged in the connector labeled with EXP1.
- Cable with 2 stripes has to be plugged in the connector labeled with EXP2.

Step 9 — Secure the LCD display onto the printer



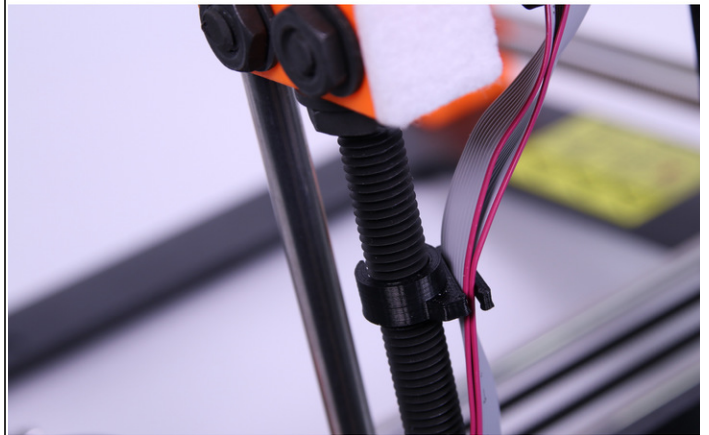
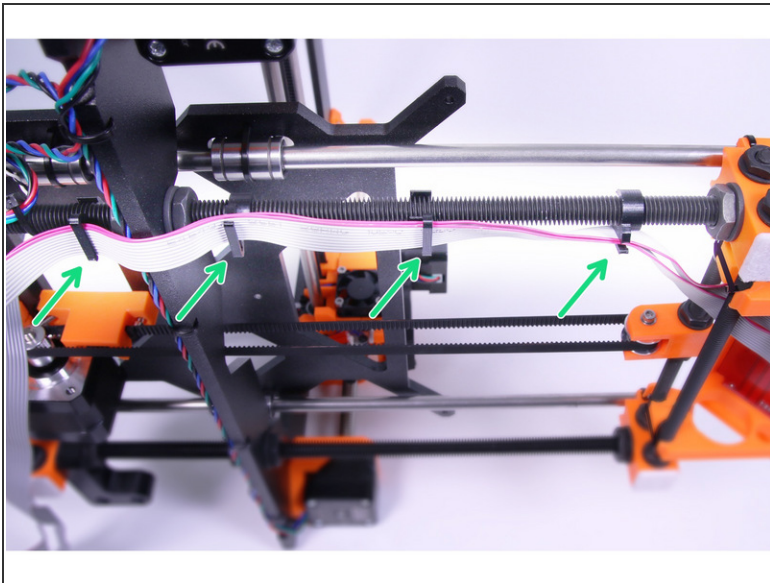
- Press the LCD assembly onto the front side of the Y-axis.
- ❗ Best way is to press the LCD assembly on the top threaded rod first and then on the bottom.
- Guide the LCD cables in between threaded rods as in the picture.

Step 10 — Secure the LCD assembly



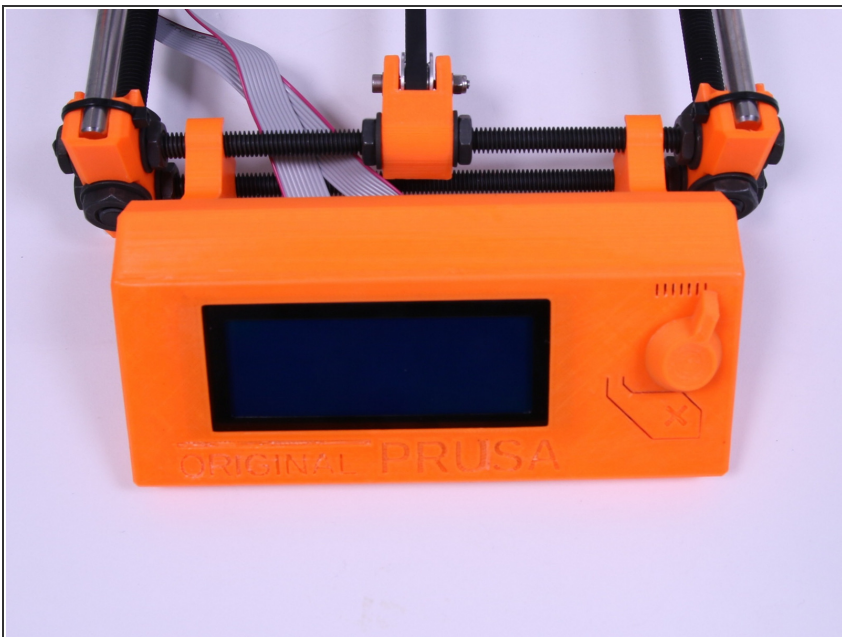
- Use the zipties to anchor the LCD assembly to the threaded rods.

Step 11 — Guiding the LCD cables



- Guide the LCD cables using LCD-clips as seen in the picture.
- Reverse direction of each of the clip, to prevent side movement of the cables.

Step 12 — All done!



- Congratulations! You've attached the LCD to the Prusa i3 3D printer!
- You can continue by assembling the PSU and the heatbed in the next chapter - [7. PSU & Heatbed assembly](#).