

## 6. LCD

LCD controller assembly

Author: [Josef Prusa](#) Difficulty: **Moderate**

♥ x0 💬 x1 ✓ x18



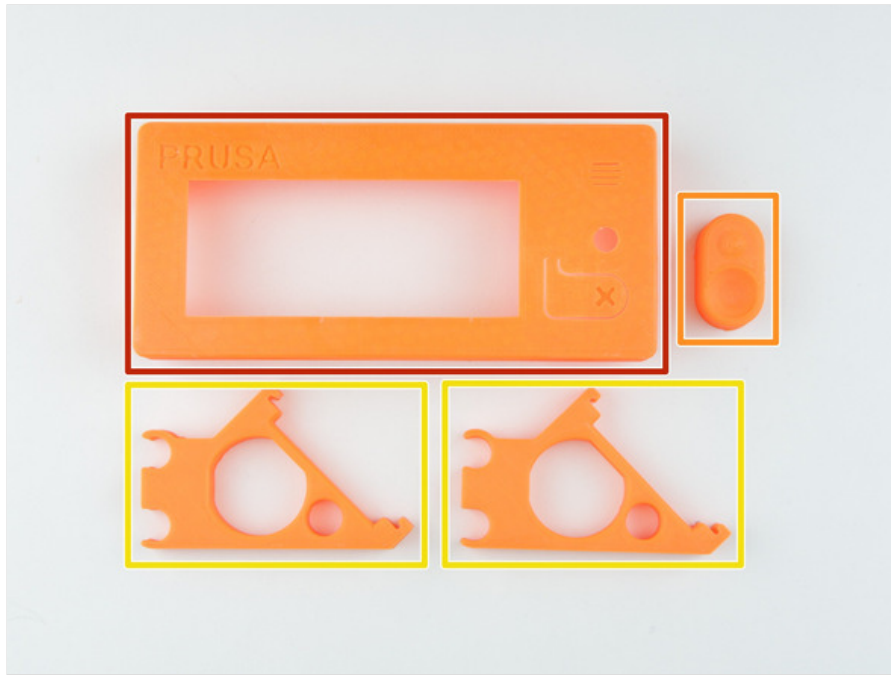
### Original Prusa i3 Plus 2.85 mm kit...

All you need to build a Prusa i3 kit. You can buy the original at [Shop.Prusa3D.com](http://Shop.Prusa3D.com)

#### Step 1 — Get the necessary tools

- Needle-nose pliers





## Step 2 — 3D printed parts

- LCD-cover
- LCD-knob
- LCD-support



## Step 3 — Preparing the LCD support for assembly

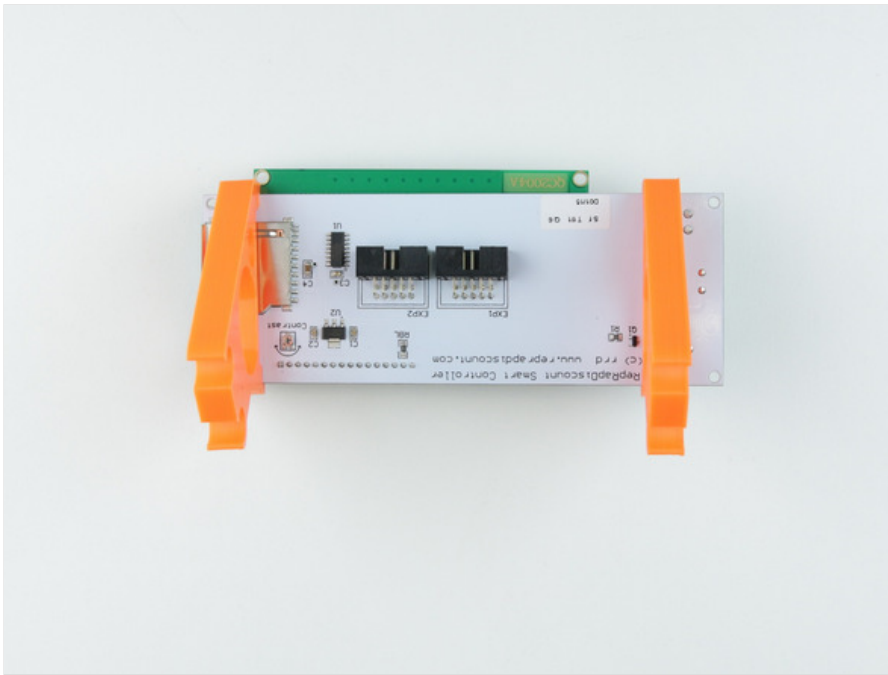
- Prepare the LCD controller and LCD-support printed parts as shown in the picture



Ensure the correct orientation of parts and LCD controller

#### Step 4 — Assembling the LCD support

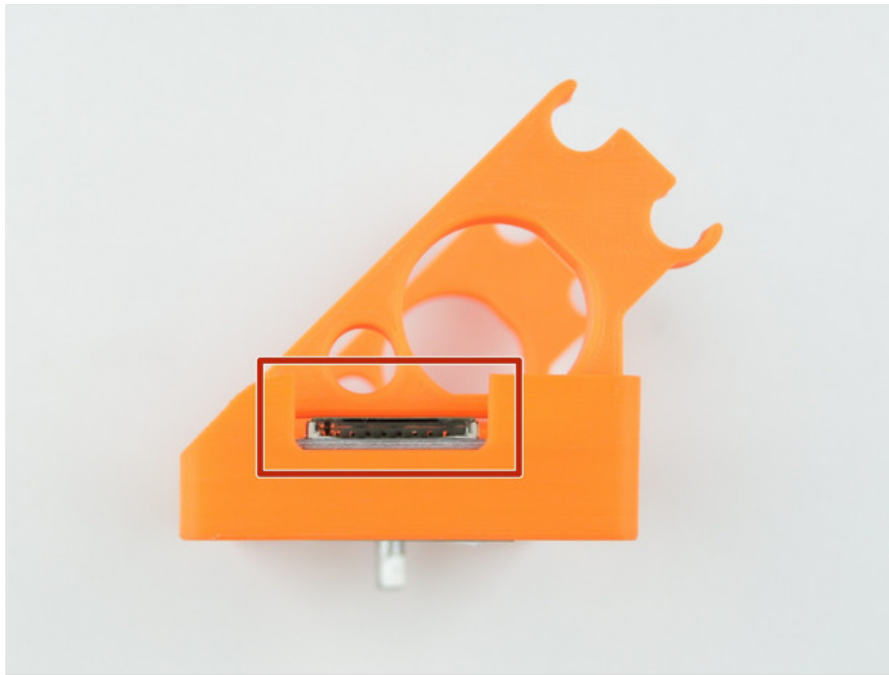
- Slide the LCD-support parts on the LCD-controller



#### Step 5 — Adjusting the LCD-support

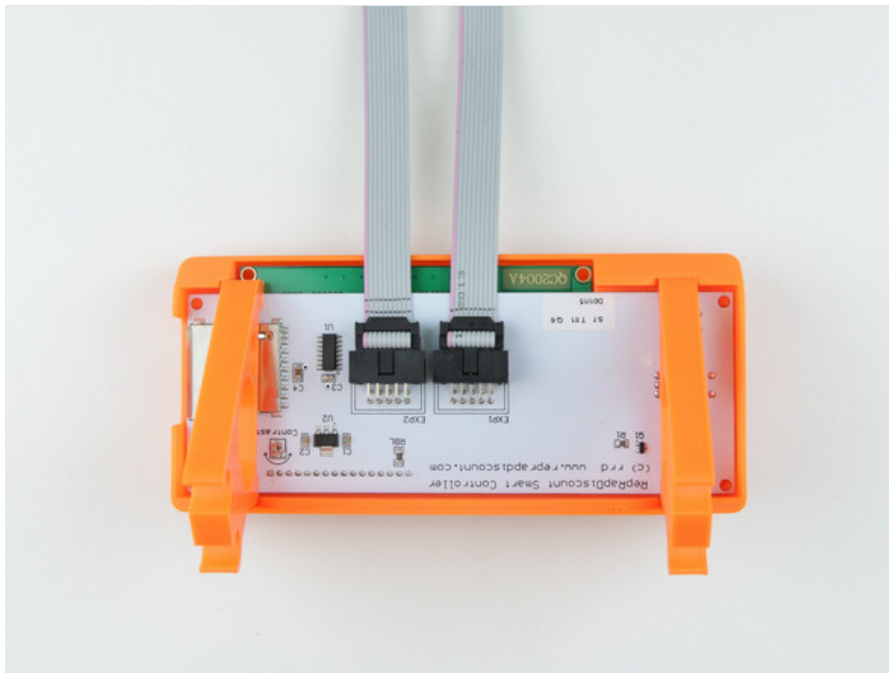
- Adjust the LCD-support parts as shown in picture
- LCD-support parts must face directly into the cutouts in LCD-cover





### Step 6 — Assembling the LCD-cover

- Press the LCD controller with LCD-support into the LCD-cover as shown in picture
- Press it as deep as possible (SD card slot has to be in same position as in picture)



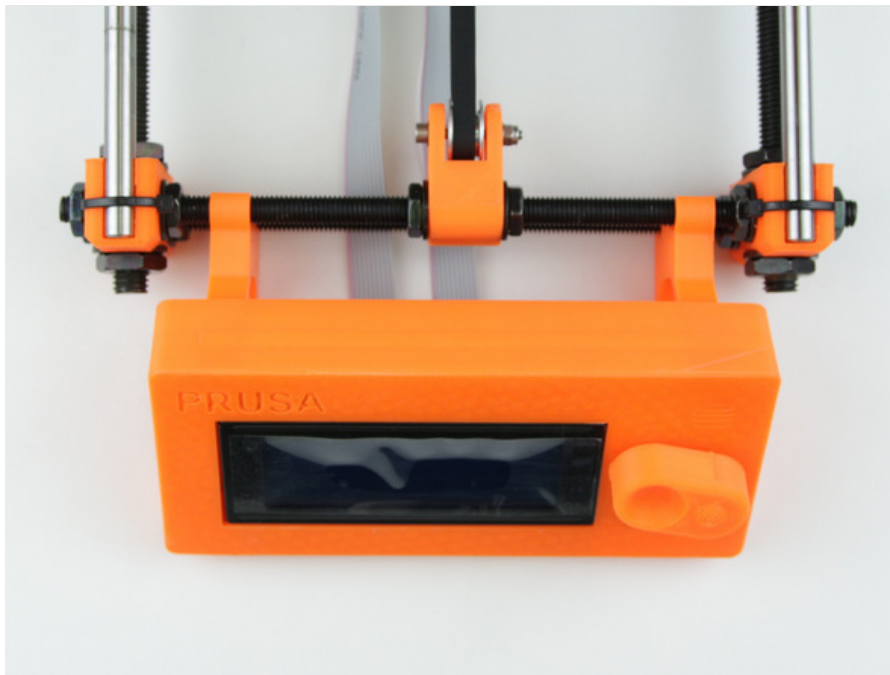
### Step 7 — Plug in the cables

- Plug in the cables as shown in picture
- Cable with 2 stripes has to be plugged in connector labeled with EXT2
- Cable with 1 stripe has to be plugged in connector labeled with EXT1



### Step 8 — Assembling the LCD knob

- Assemble the LCD-knob part as shown in picture



### Step 9 — Secure the LCD display onto the printer

- Press the LCD assembly onto front side of Y-axis
- i** Best way is press the LCD assembly on the top threaded rod first and then on the bottom

### Step 10 — Secure the LCD assembly

- Use a ziptie to anchor the LCD assembly to the top threaded rod



### Step 11 — Tighten the LCD assembly

- Use a ziptie to anchor the LCD assembly to the bottom threaded rod as shown in picture
- Repeat the steps for the other side as shown on second picture

### Step 12 — Guiding the LCD cables

- Guide the LCD cables between the threaded rods as seen in picture

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### Step 13 — Tighten the LCD cables

- Tie the LCD cables to the left M10 threaded rod as shown in picture



Do not tie the cables too tight, otherwise you may damage them

## Step 14 – All done!

- Congratulations! You've attached LCD to the Prusa i3 3D printer!
- You can continue by assembling PSU and heatbed by clicking on following link
- [7. PSU and Heatbed](#)



**You're Done!**

Give author +30 points!

## ONE COMMENT

Add a comment

### Step 5

Add comment



I suggest test fitting the supports without the lcd first.

[pgiustino](#) - 06/11/2015