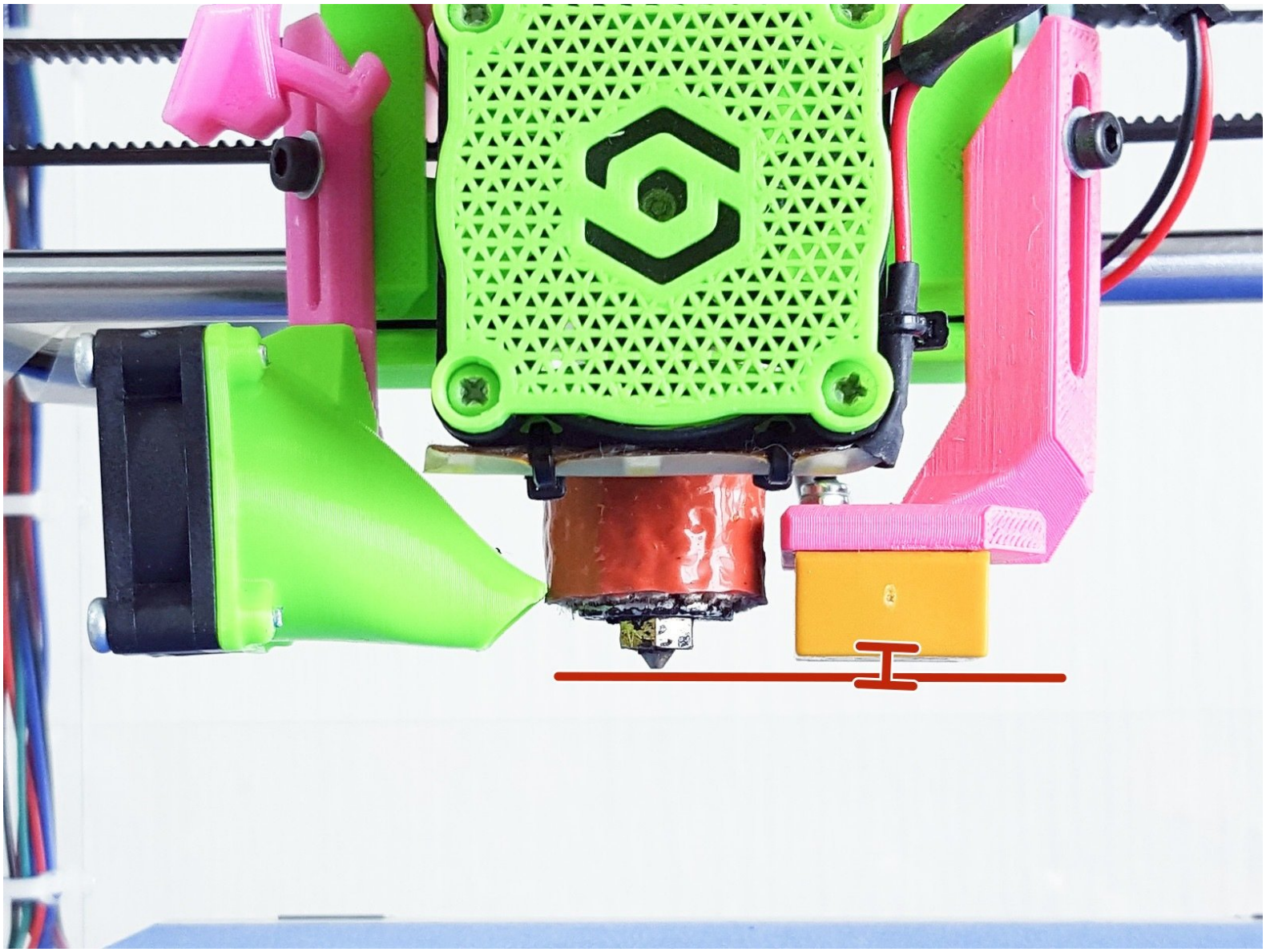
Adjust the Z Probe Height



INTRODUCTION

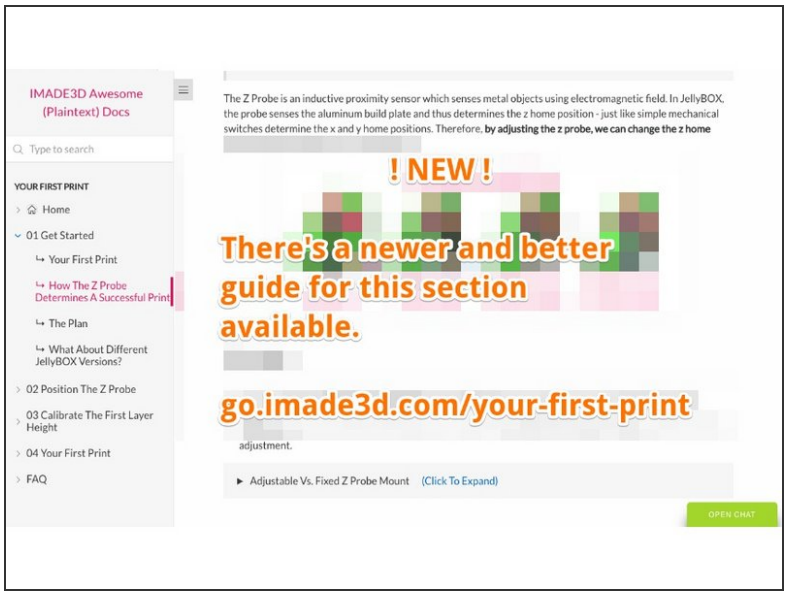
Warning: This guide features an old JellyBOX 1, while you are building JellyBOX 2.

While some parts look different, the principle is exactly the same and we believe you will be fine!

Not the guide you are looking for?

Go back to the **⇤ Easy Kit Build Flow.**

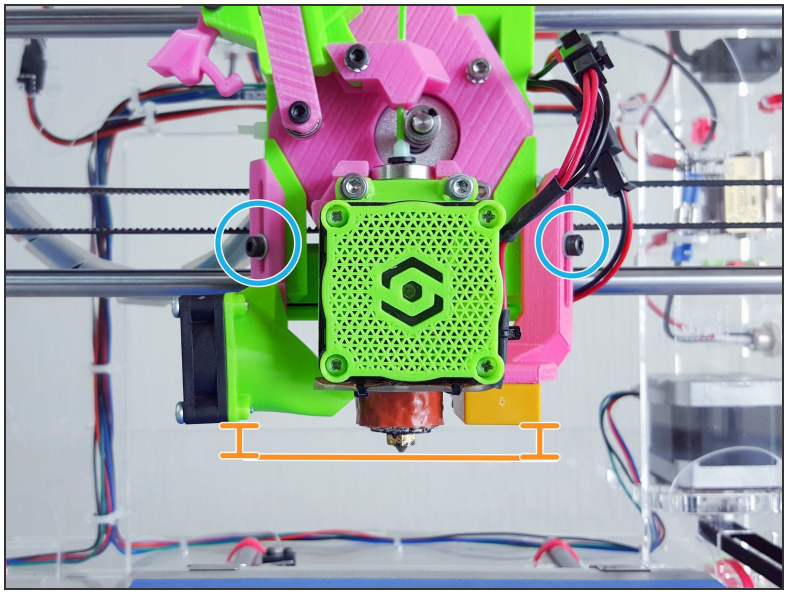
Step 1 — ↳ Z Probe Mechanical Adjustment



There'a better guide in town for this section!

- Please visit go.imade3.com/your-first-print for a more comprehensive and up to date guide on Calibrating your Z Probe and your First Print.

Step 2 — Adjust the Z Probe Height



- M3 screws
- Move the filament fan and the Z probe above the nozzle.

Do not over-tighten these screws. No need. (Many people tend to over-tighten these screws.)

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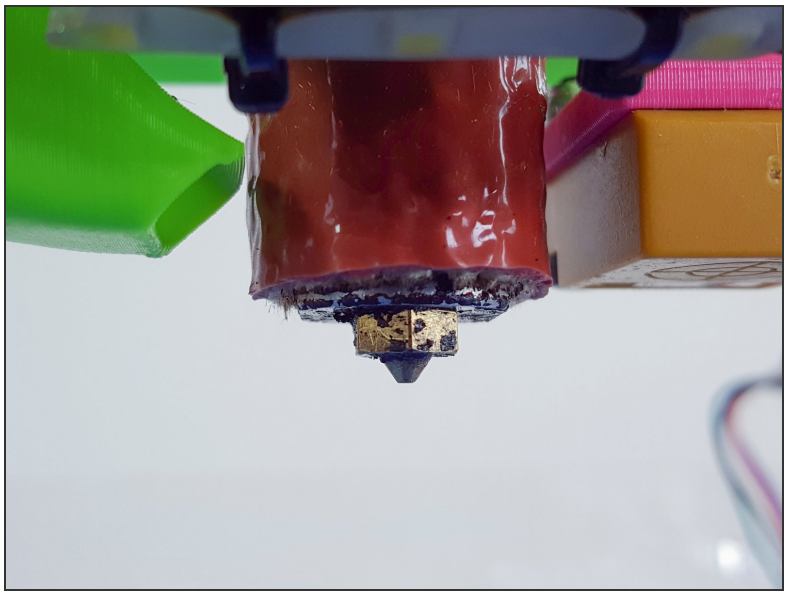
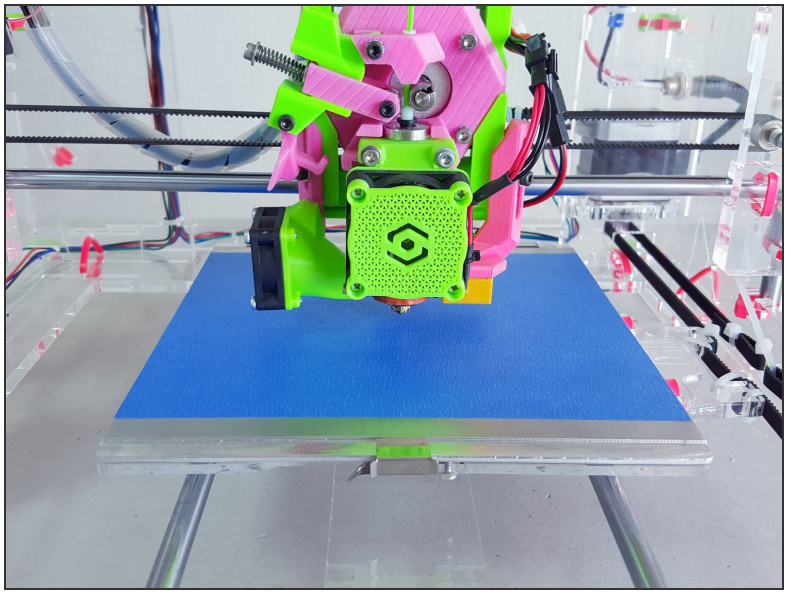
Step 3



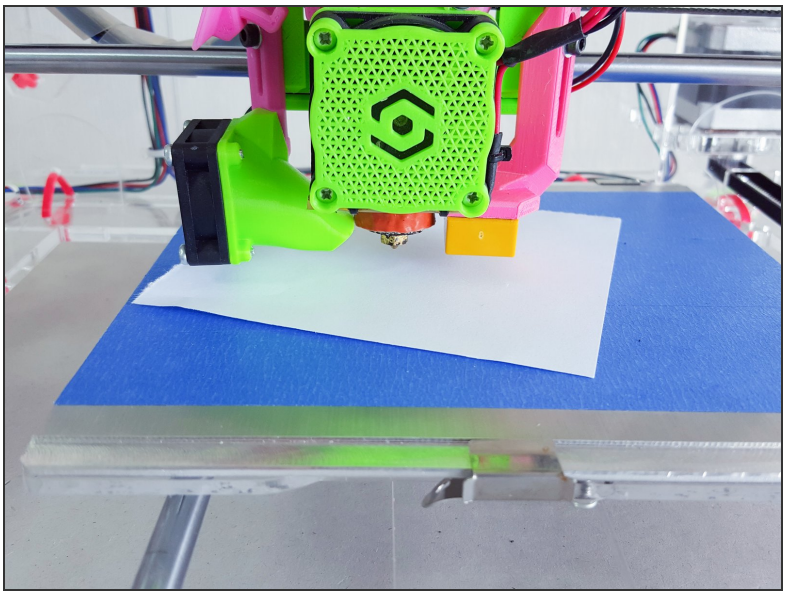
- Make sure the nozzle tip has no plastic build up.
- The nozzle can be dirty, but the tip needs to be clean.
- An easy way to clean the nozzle is to heat it up to about 180°C and use tweezers or a brass brush to remove the build up.

Step 4



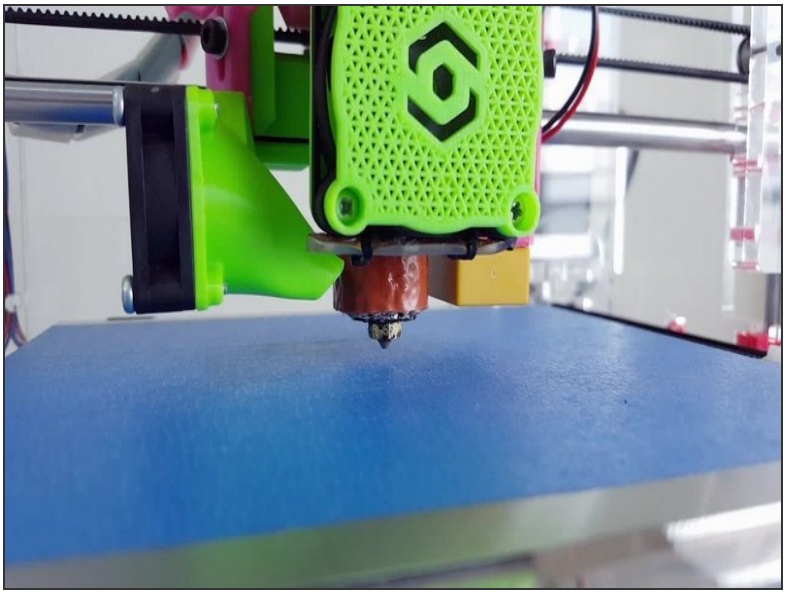
- Position the extruder around the middle of the build plate.

Step 5



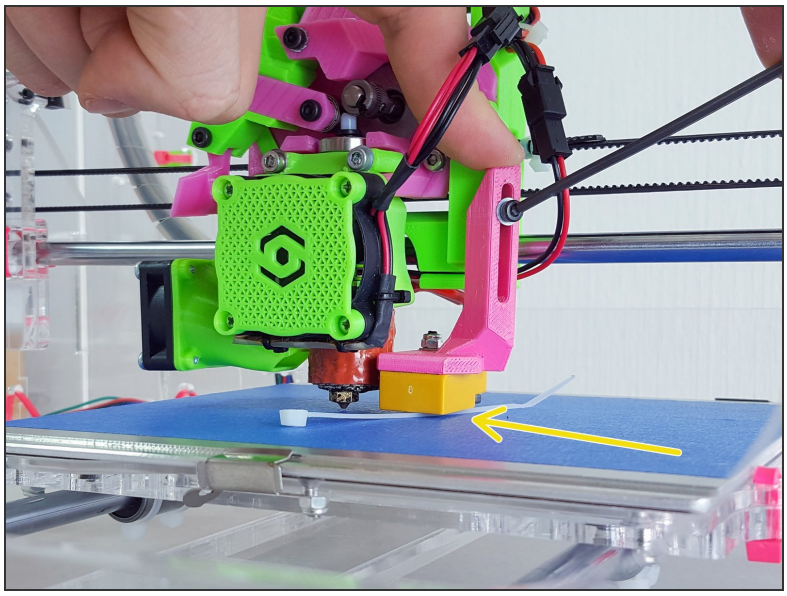
- Slide a piece of paper underneath the nozzle.
- A basic office paper works fine; that's about 0.1mm thick.

Step 6



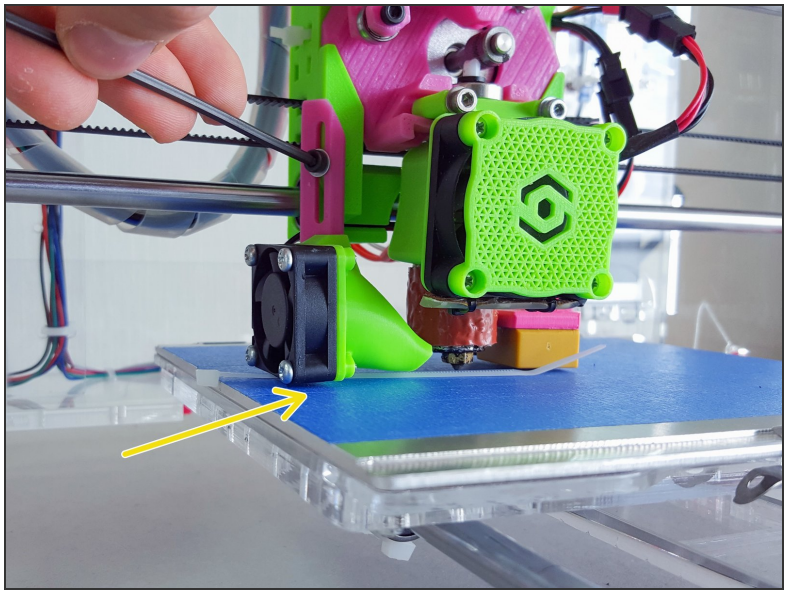
- Turn the z lead screw with your bare hand until the nozzle is lightly touching the build plate.
- A proven way to do this is by touch: when you can't move the paper freely back-and-forth that's when the nozzle is touching the plate.
- You don't have to worry about being crazy precise. The important thing is that you're consistent. Just get a feel for the paper. In a few calibration cycles, you'll be a master.

Step 7



- Rest the probe on a 4" zip tie and tighten the screw to keep it in place.
- Since the thickness of a 4" zip tie is about 1mm, we now have a gap between the tip of the nozzle and lower end of the z probe about 1 mm.

Step 8



- Take this opportunity to adjust the filament fan height as well.
- Rest the filament fan on a 4" zip tie and tighten the screw to keep it in place.
- Good cooling is essential for quality prints from many materials. For PLA it's a must.

Step 9

⚠ Now there should be about 1mm gap between the tip of the nozzle and the Z probe.

- This concludes the mechanical part of the Z probe setup. When your JellyBOX probes the build plate, the probe now should be well within its sensing distance.

What's Next?

Get back to the ⇤ **Easy Kit Build Flow** and continue with the next guide.