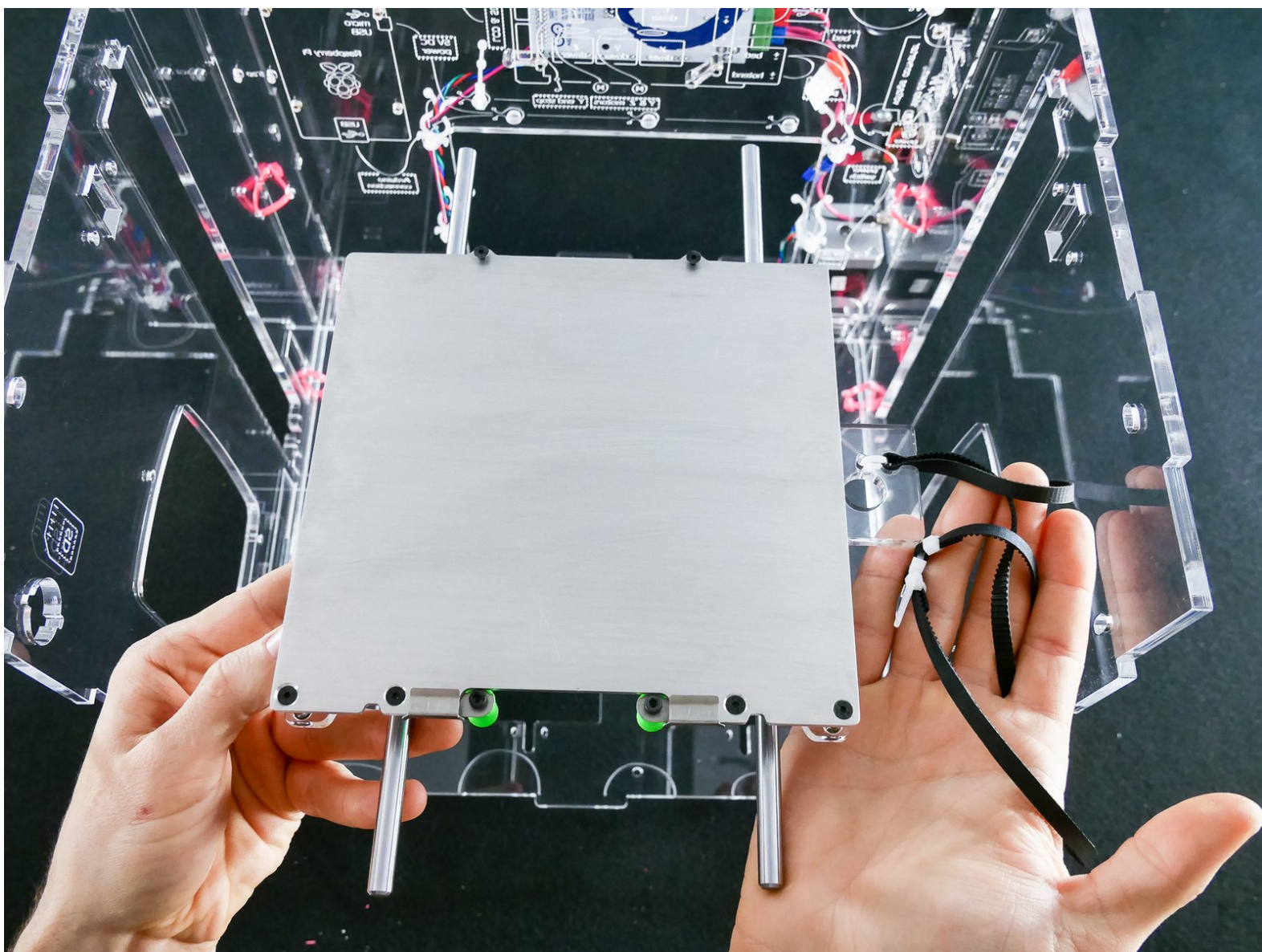




Install the Y Assembly

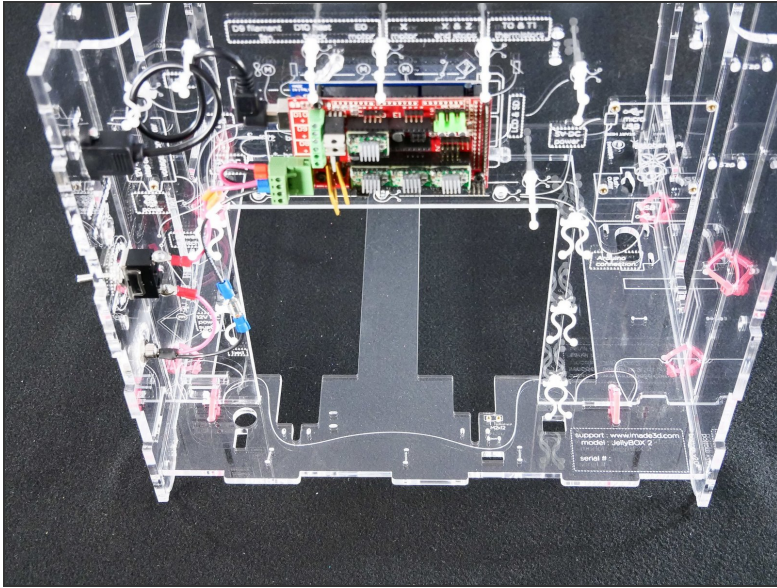


INTRODUCTION

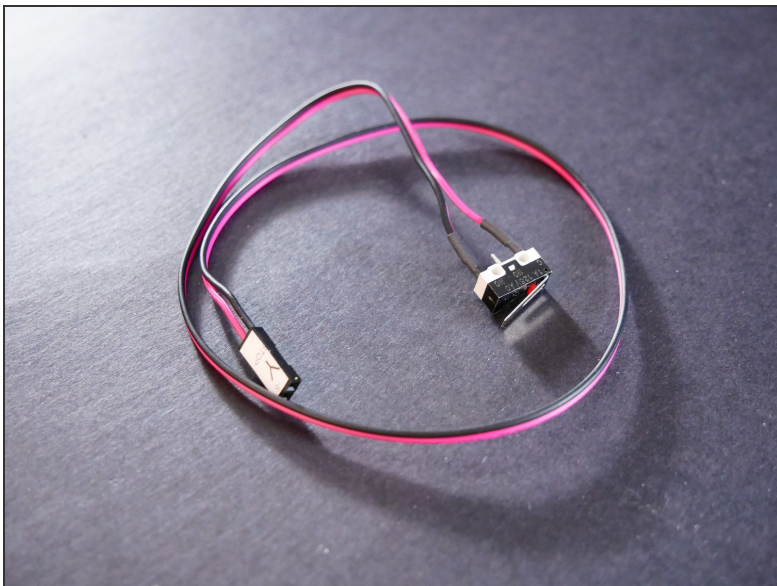
Not the guide you are looking for?

Go back to the [← Easy Kit Build Flow.](#)

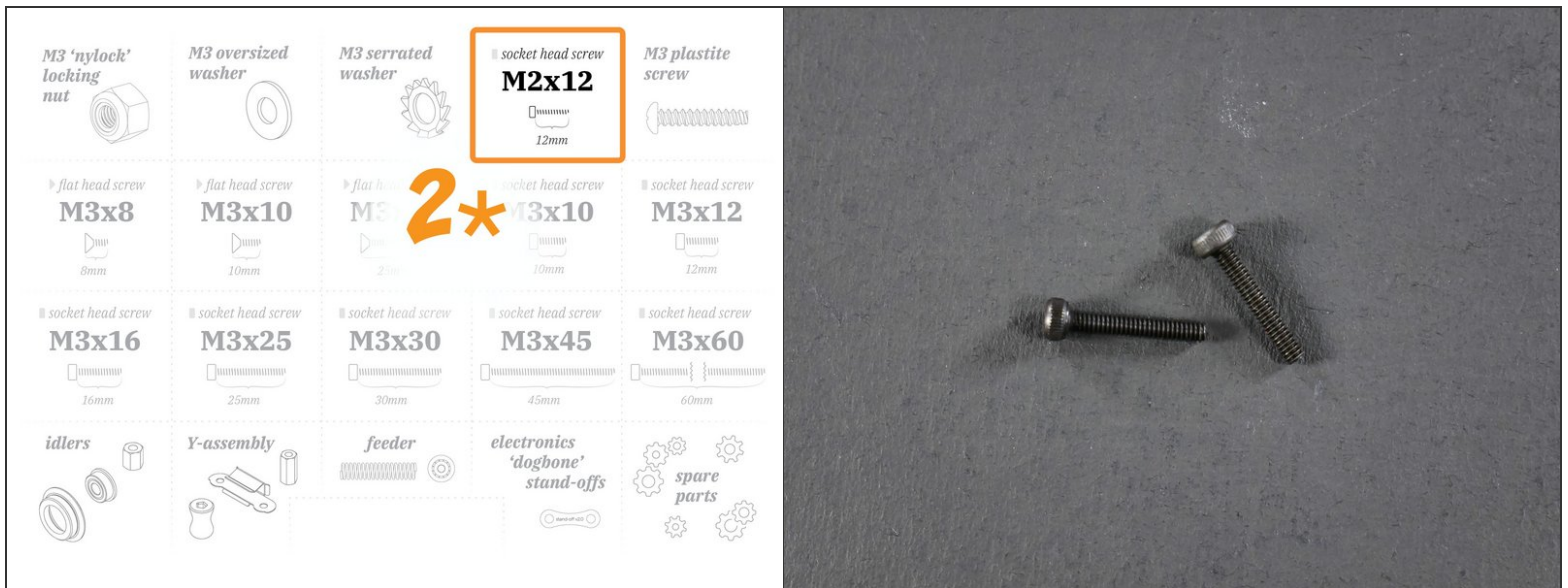
Step 1 — ↳ Y Endstop



Step 2

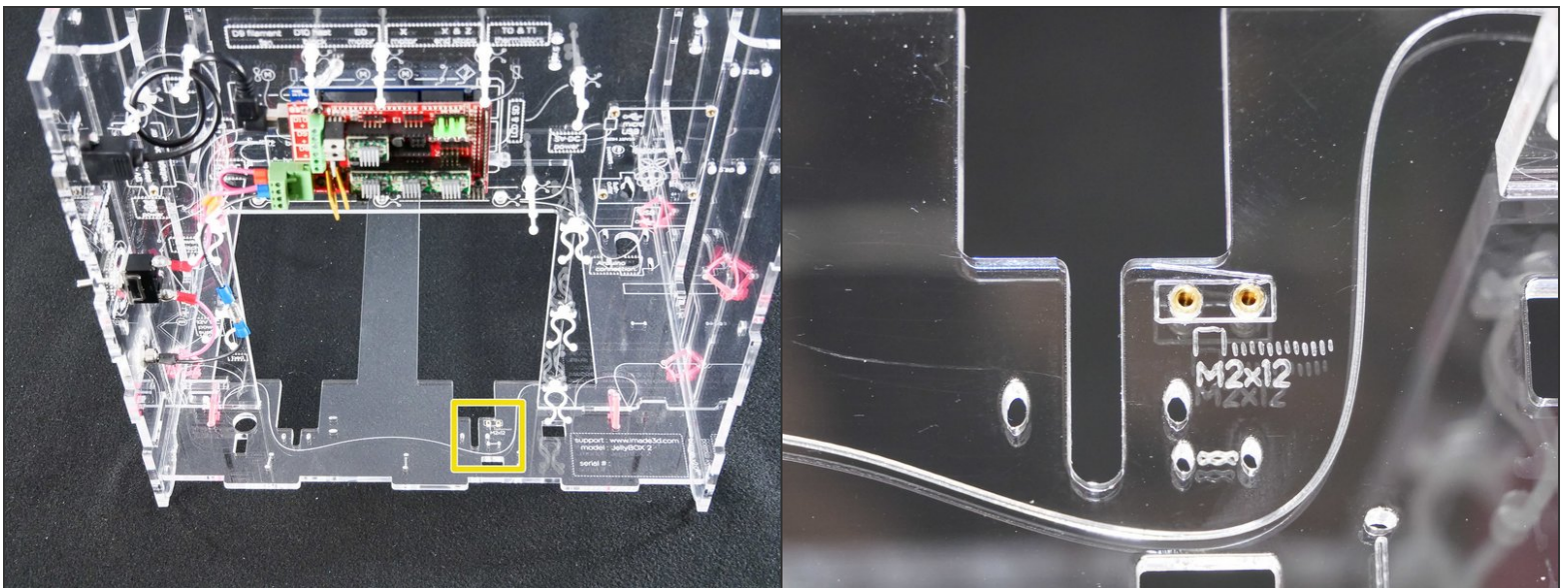


Step 3

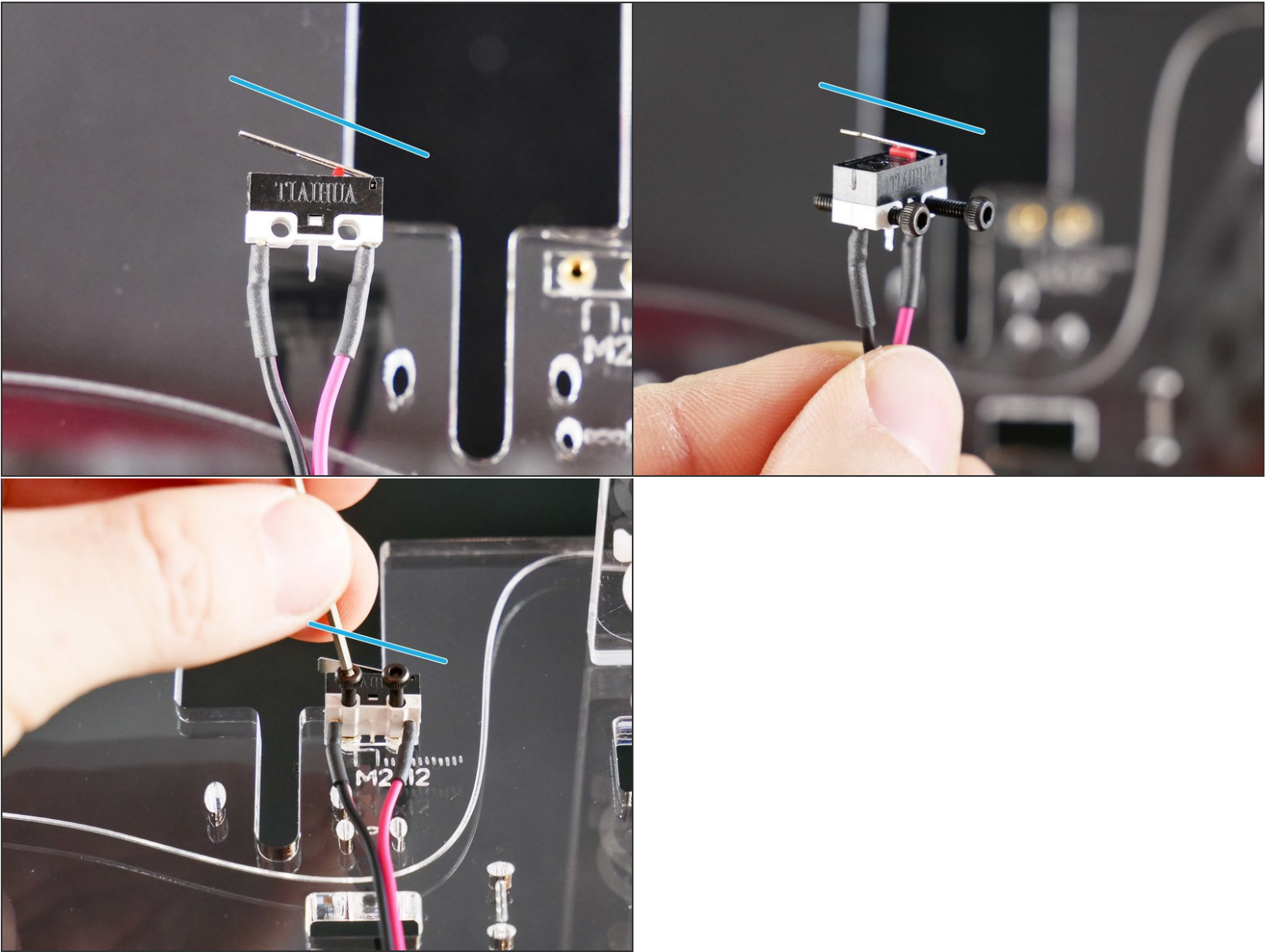


- M2x12 (these are the tiniest)

Step 4

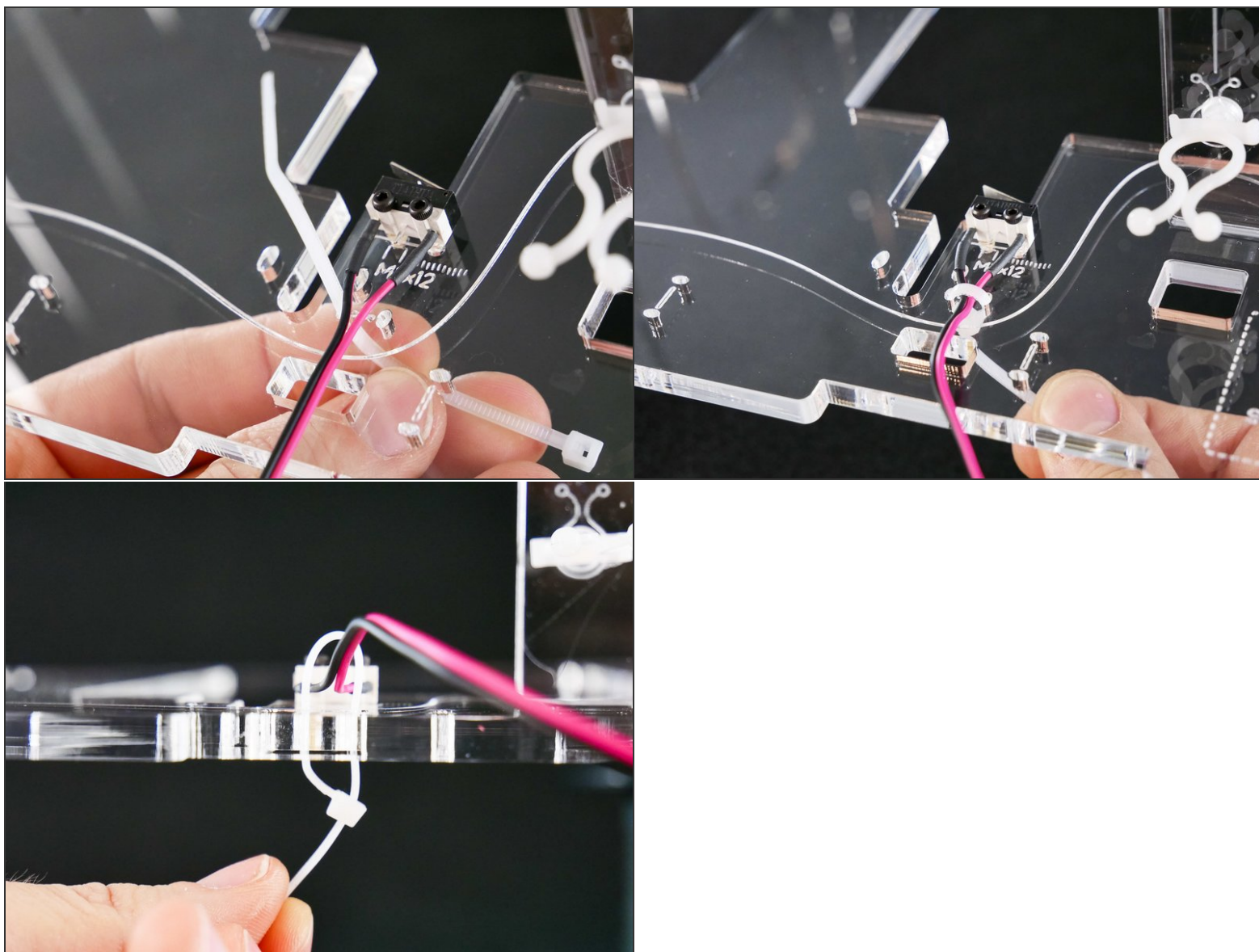



Step 5



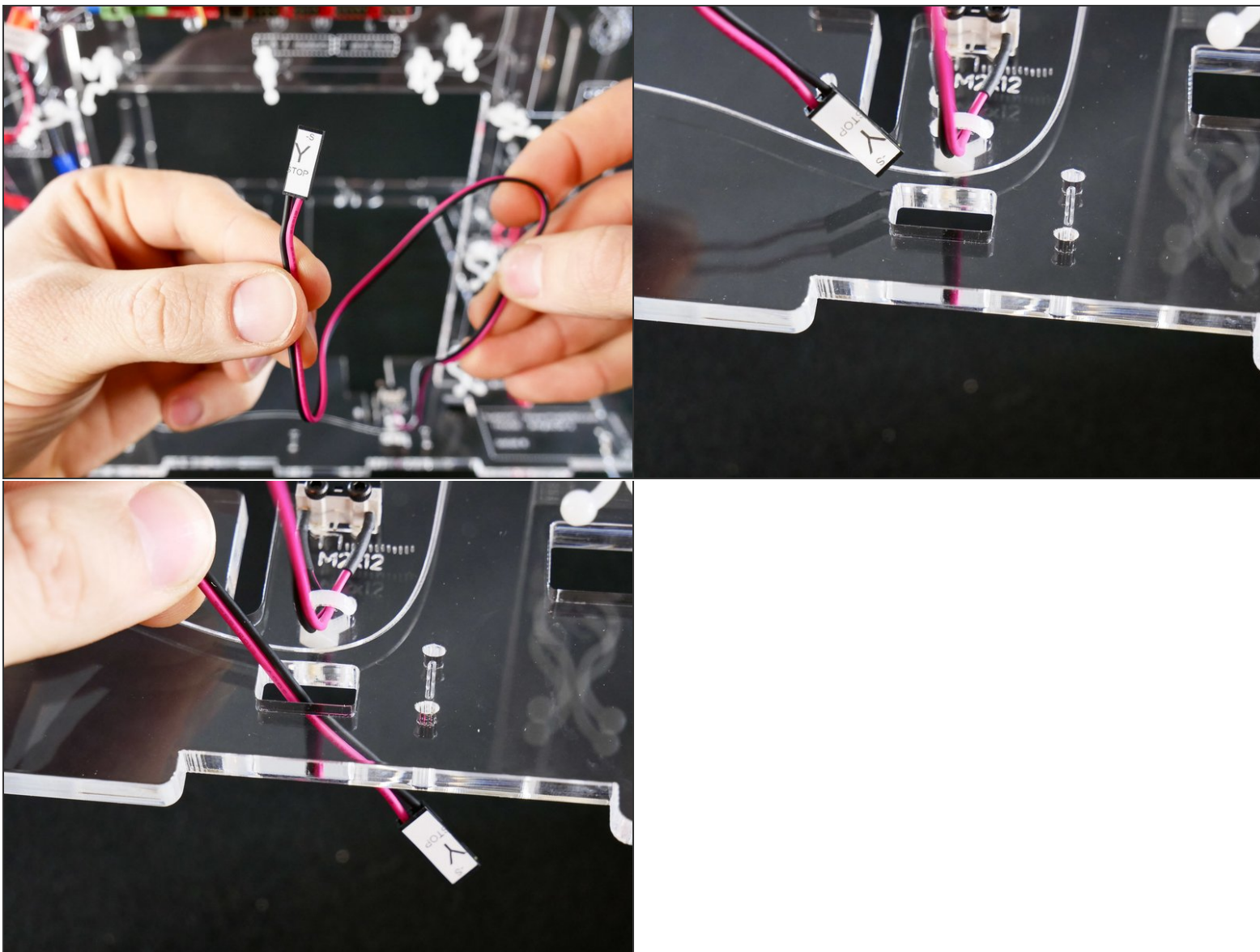
- The switch **reed** needs to point towards left.

Step 6

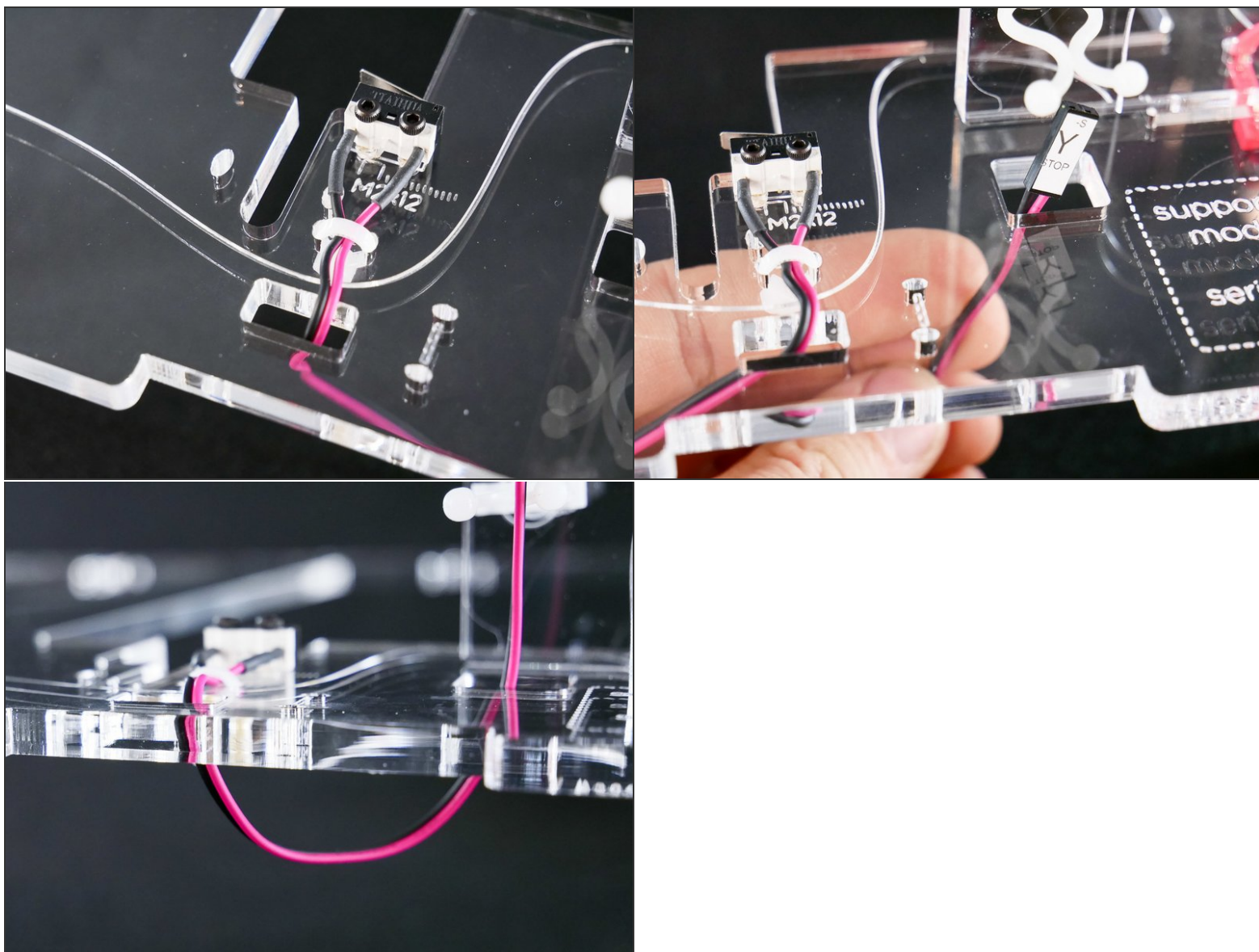


 [Update] This zip tie (and the holes in the Bottom) was removed in early 2018 to speed up the build. Simply **skip it**.

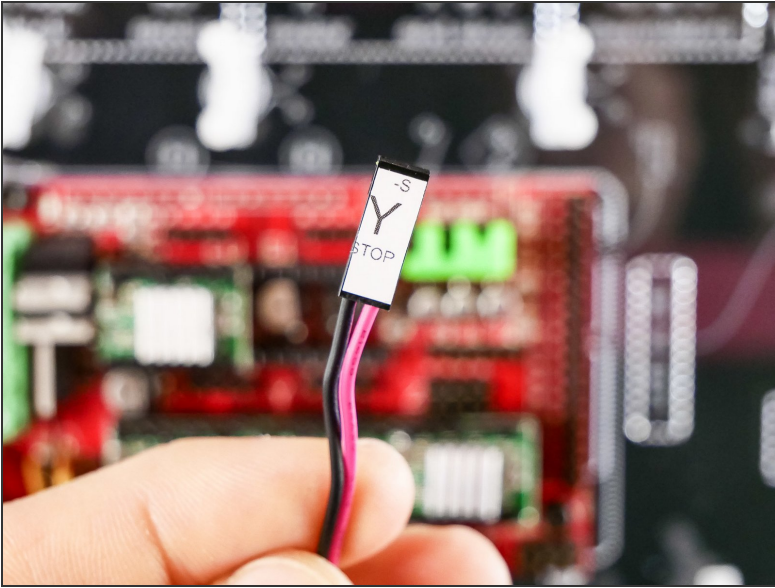
Step 7



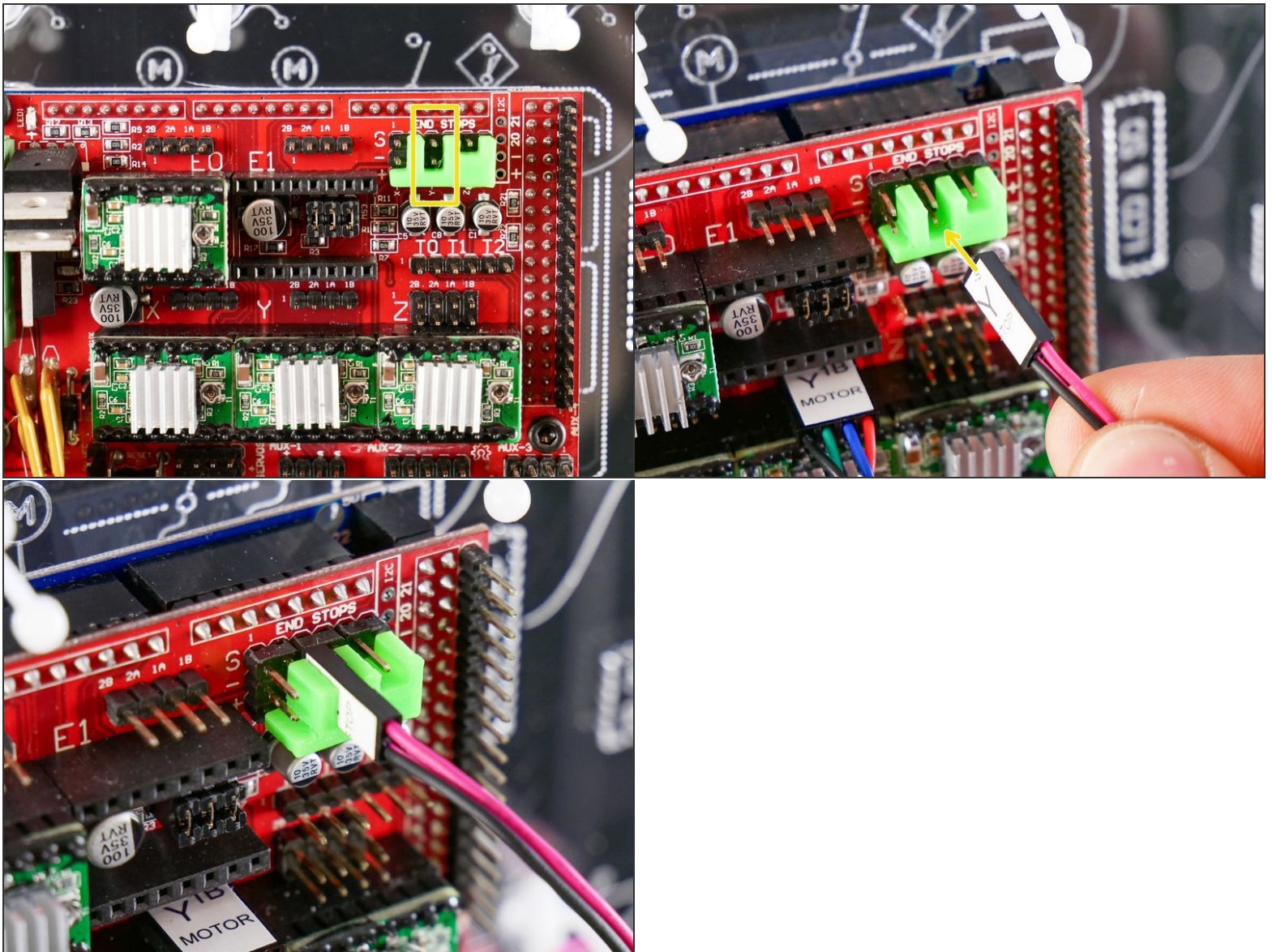
Step 8



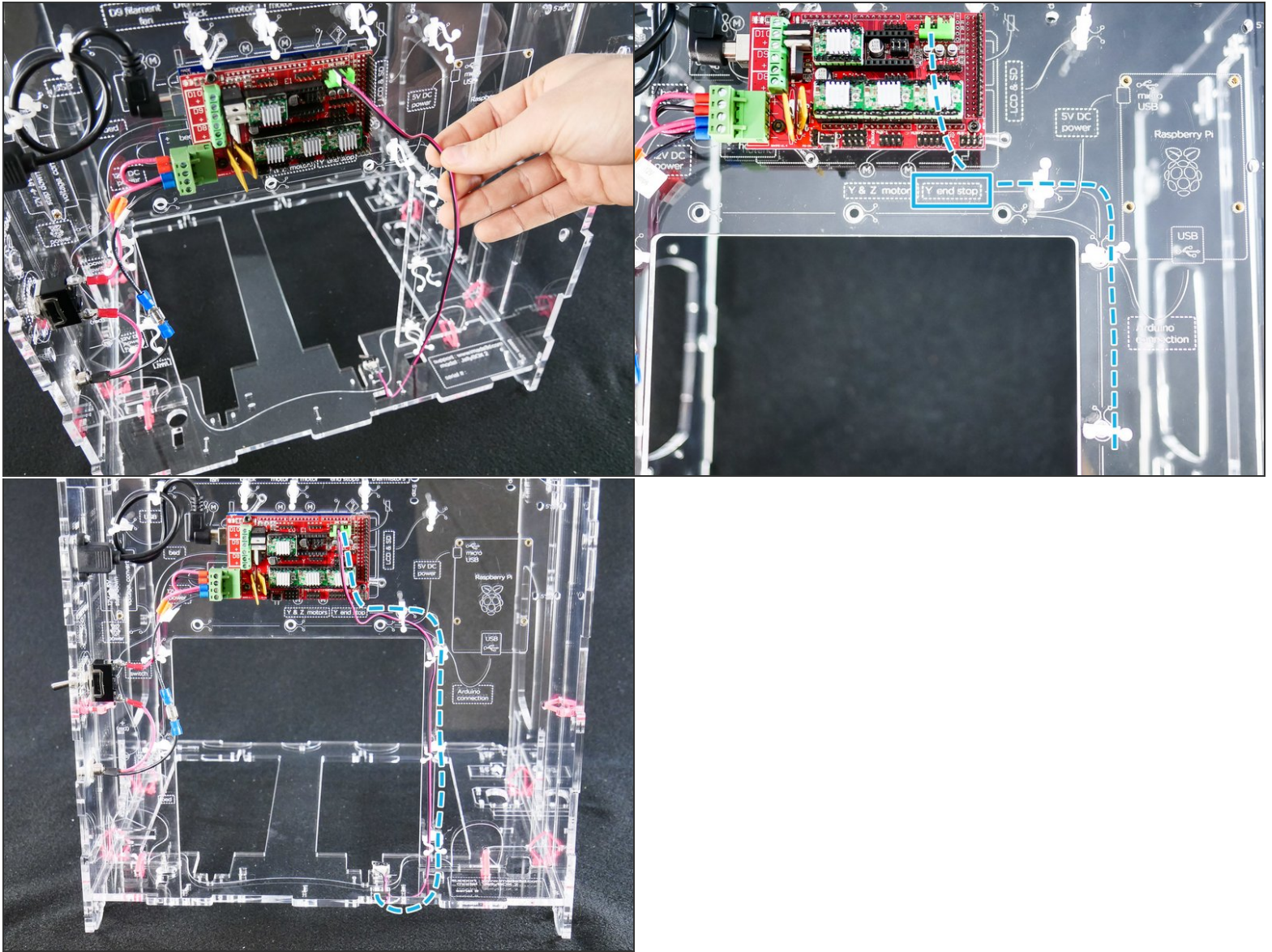
Step 9



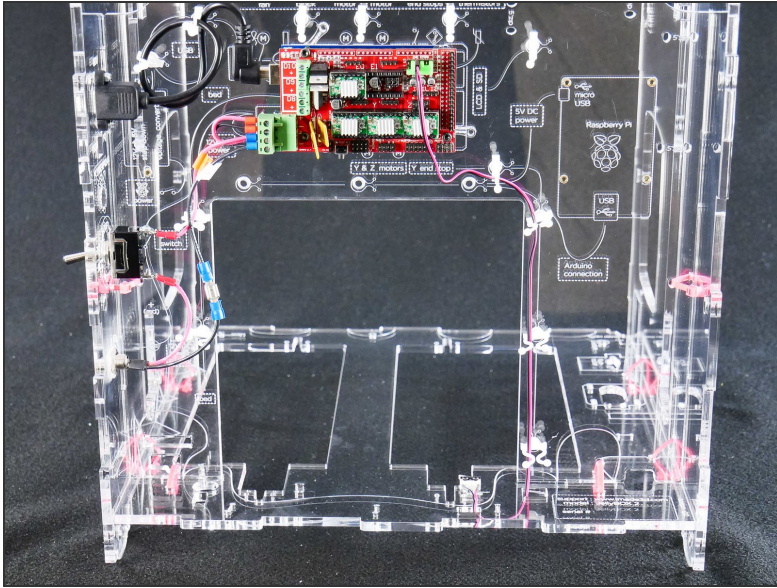
Step 10



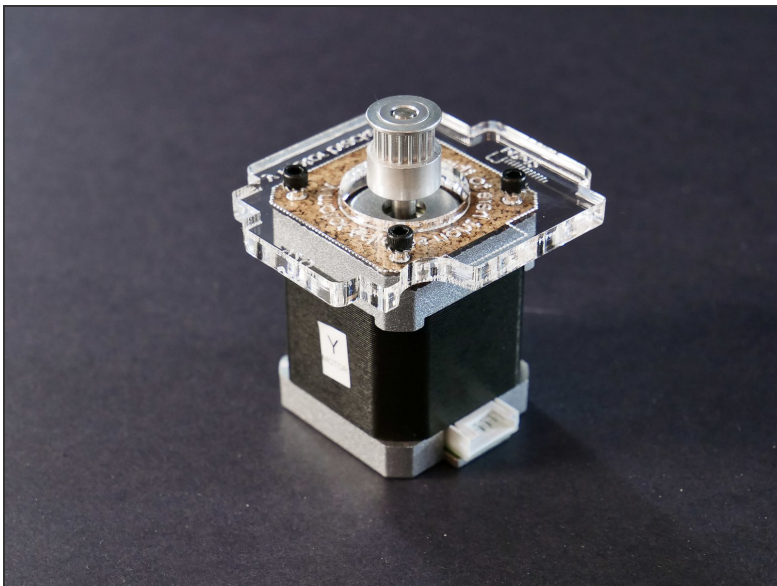
Step 11



Step 12 — Looking good!



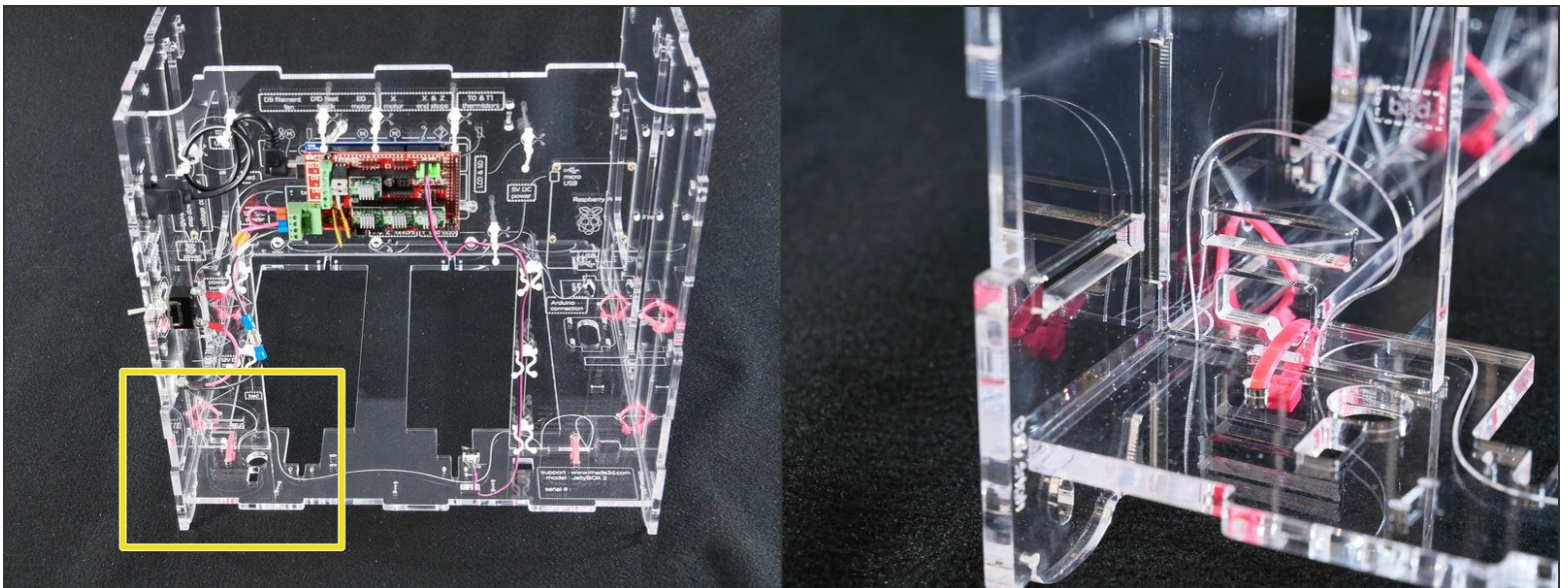
Step 13 — ↳ Insert the Y Motor Bracket



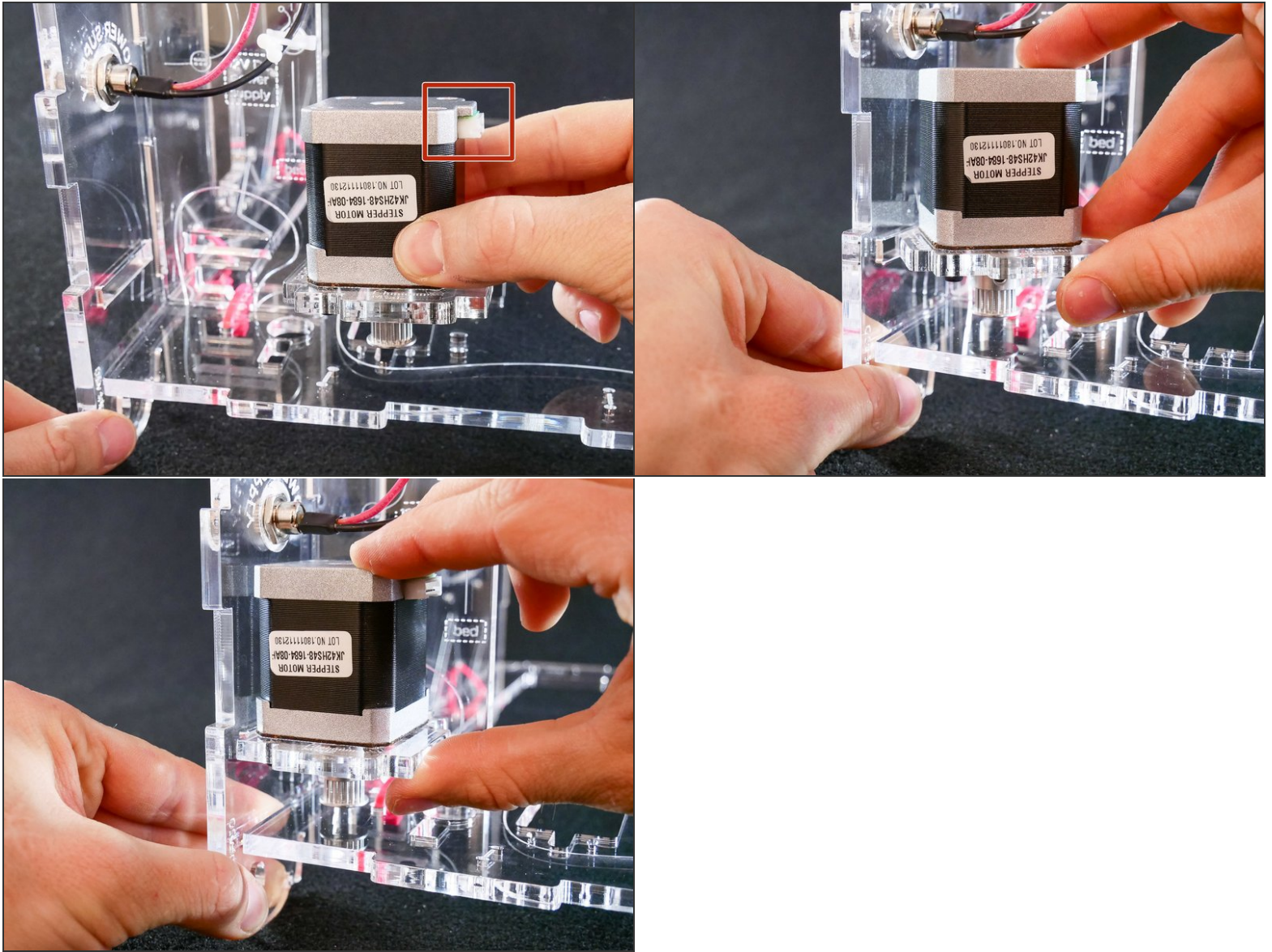
Step 14



Step 15

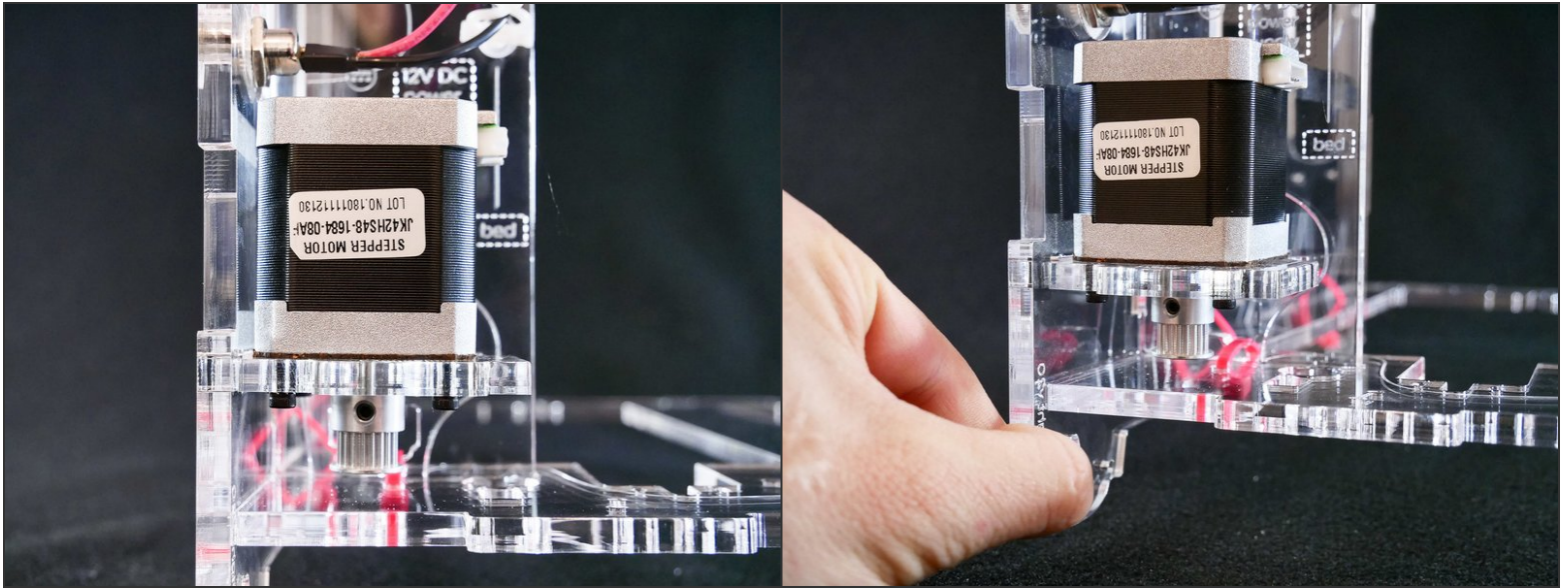


Step 16



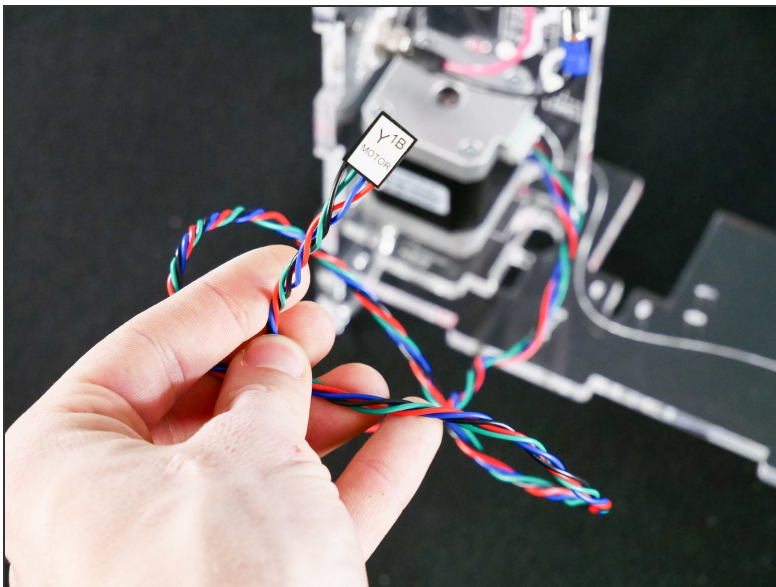
⚠ Point the motor connector towards **right**.

Step 17

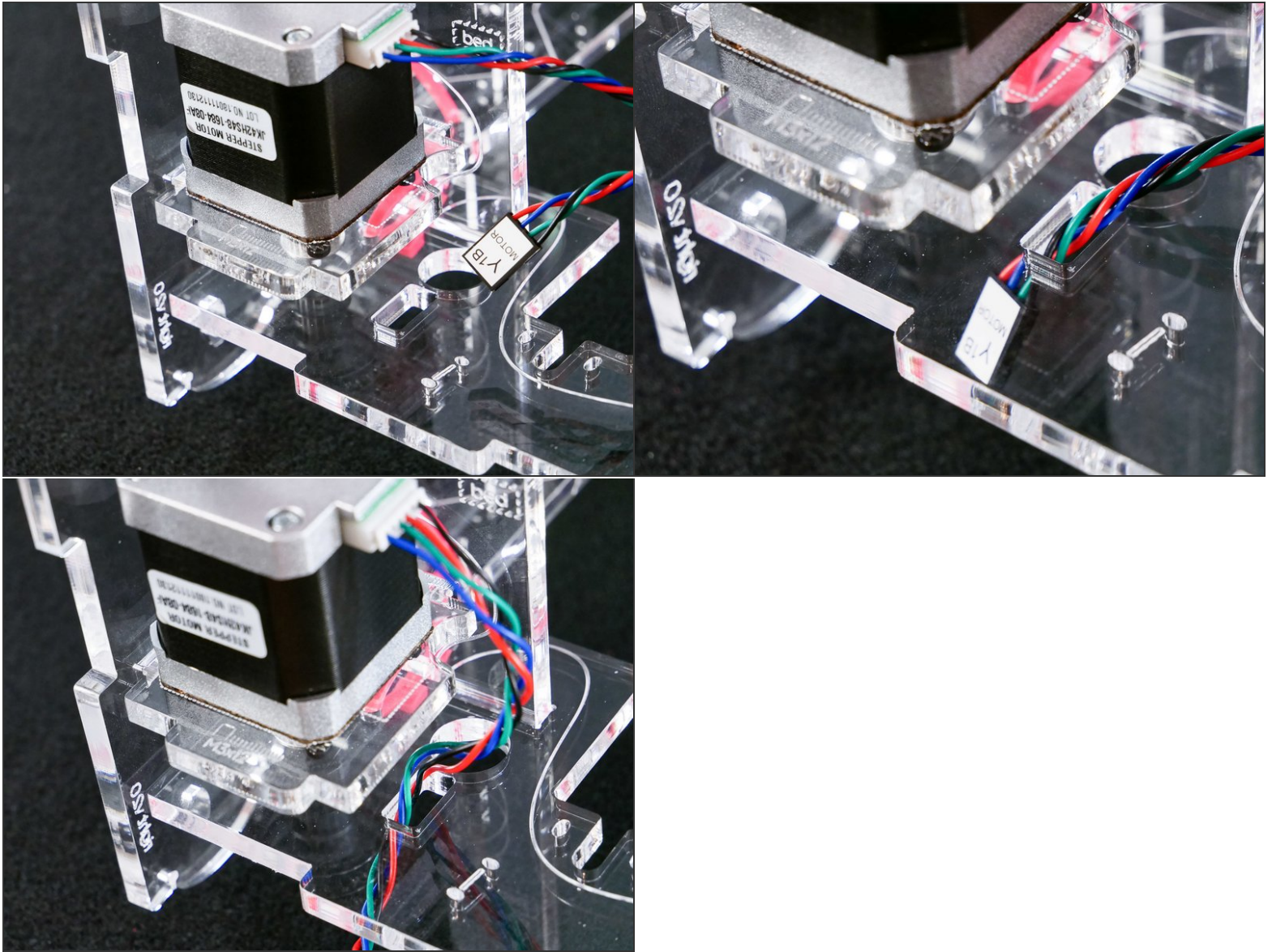


- Check ✓

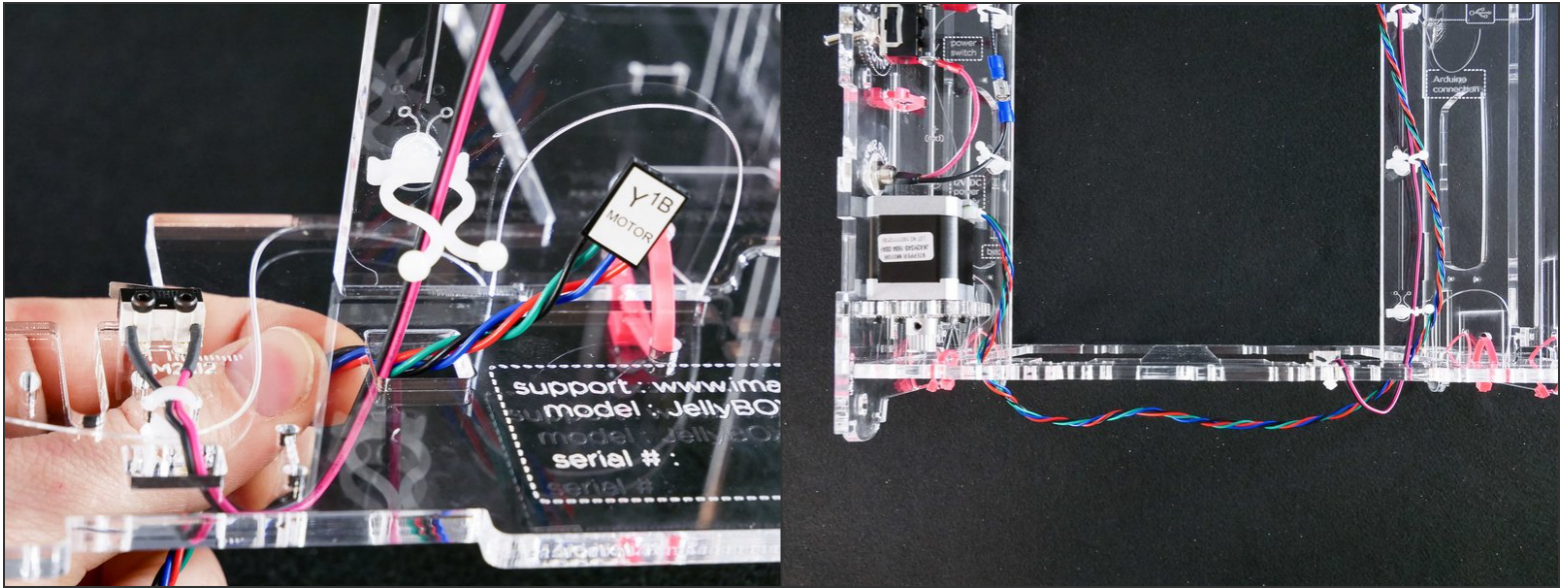
Step 18



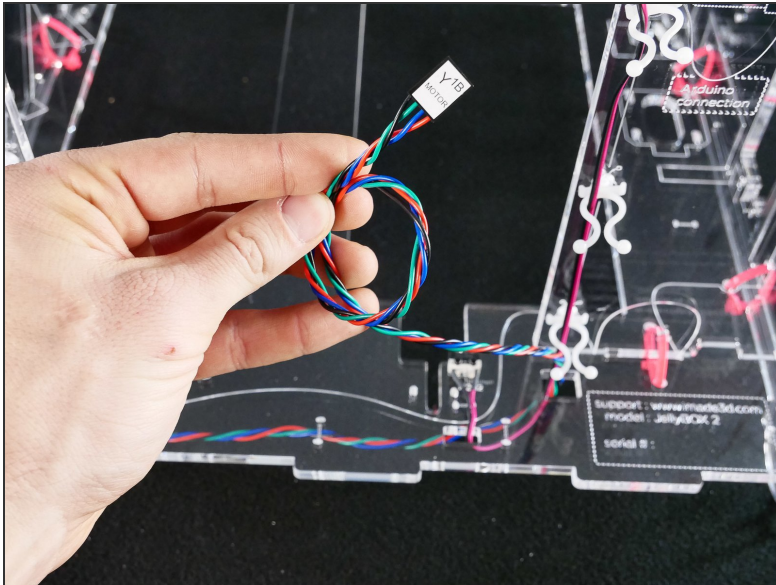
Step 19



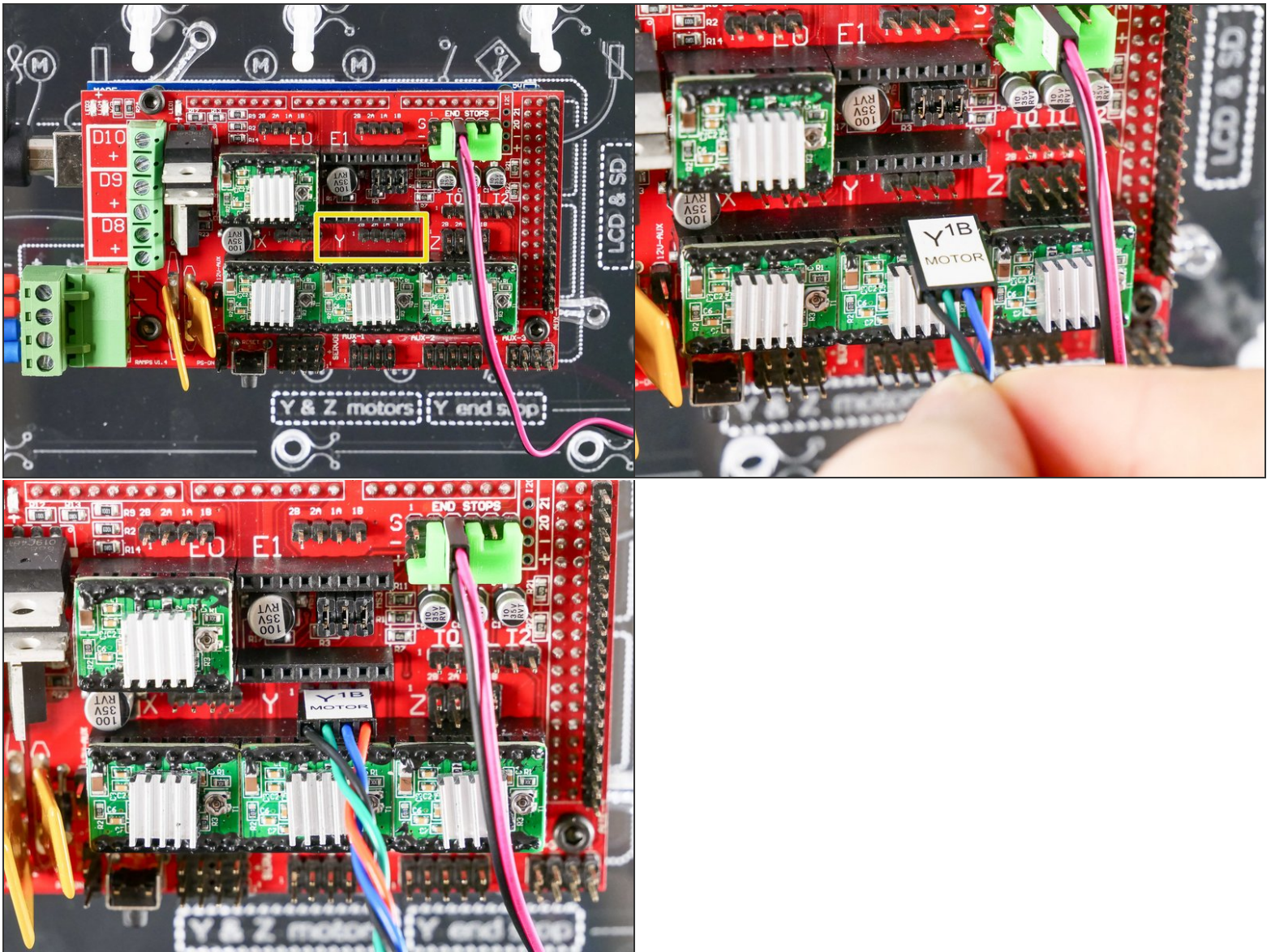
Step 20



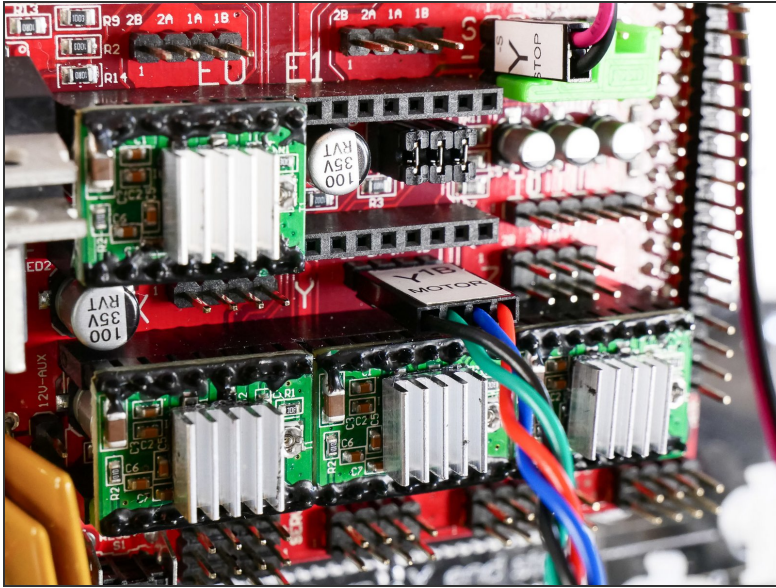
Step 21



Step 22

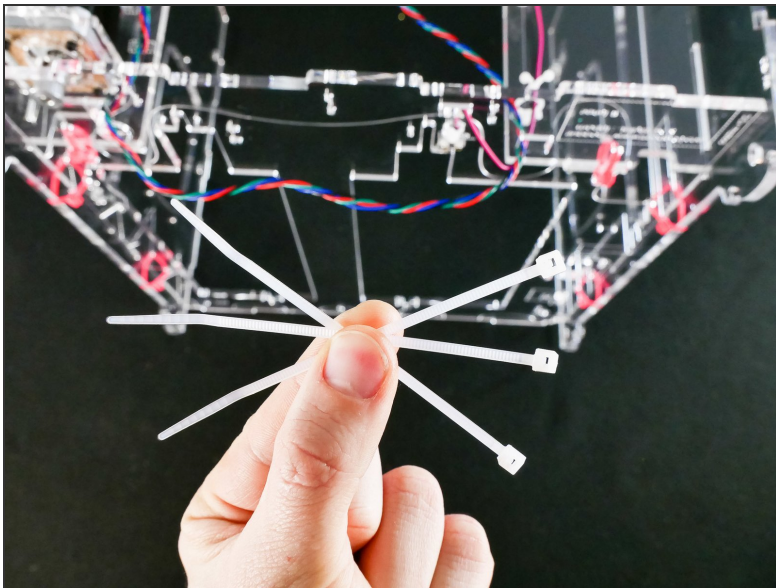


Step 23

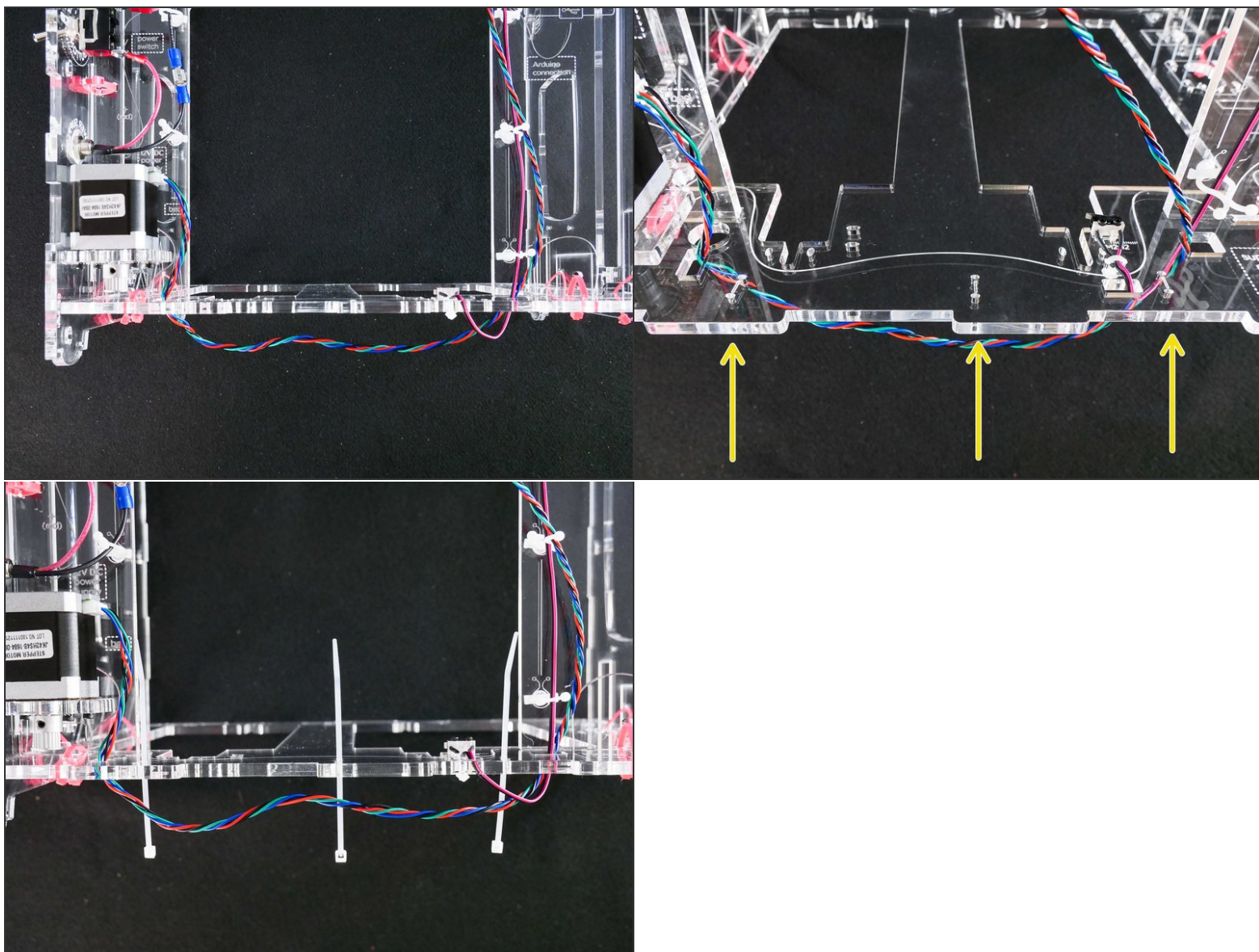


- Check ✓

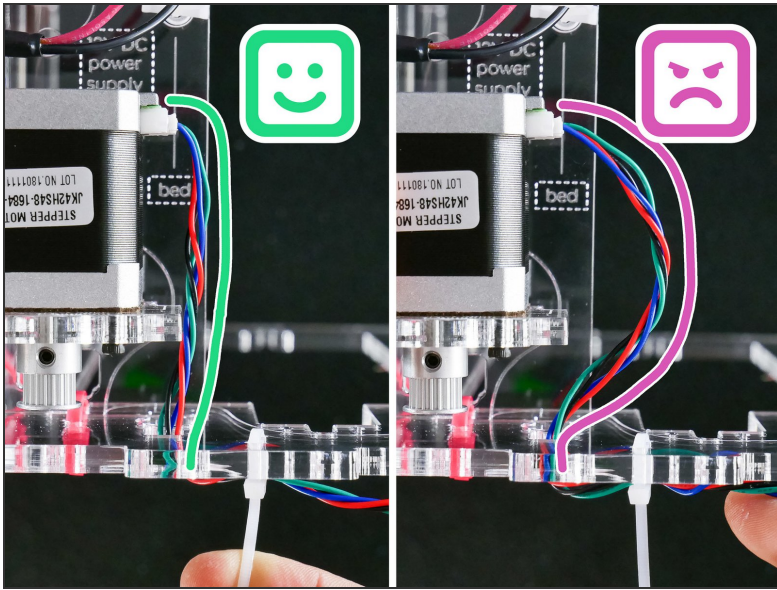
Step 24



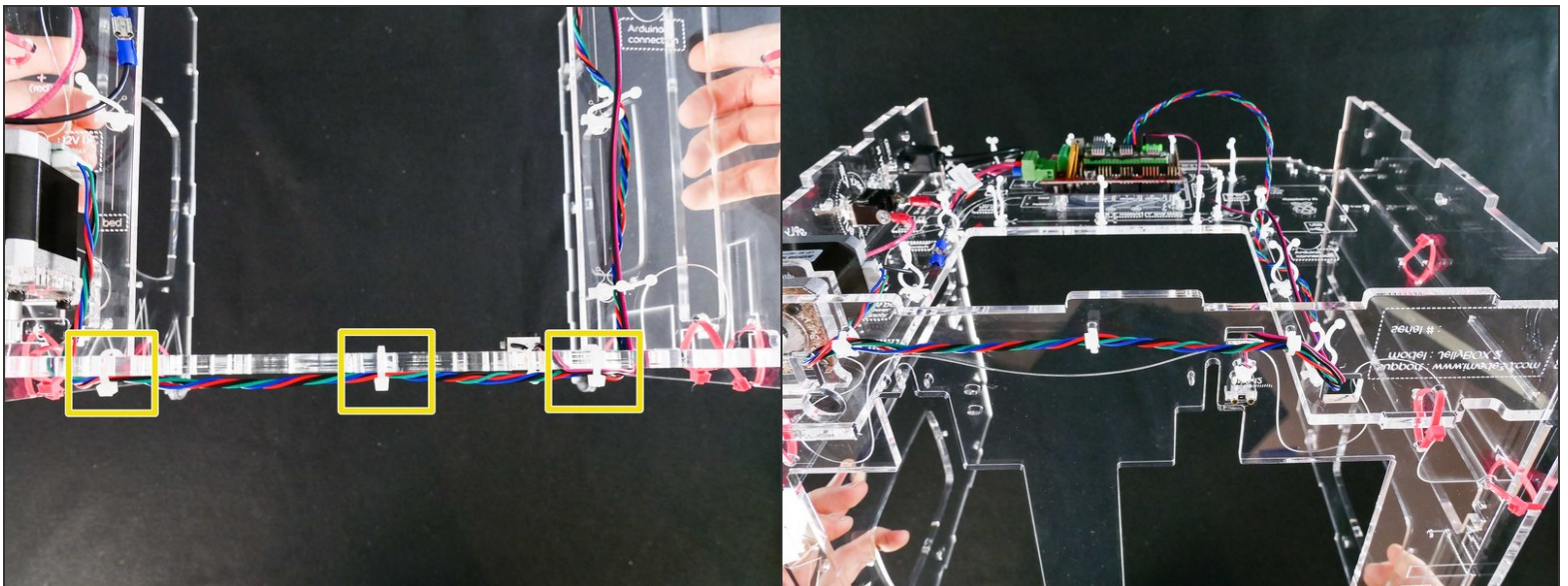
Step 25



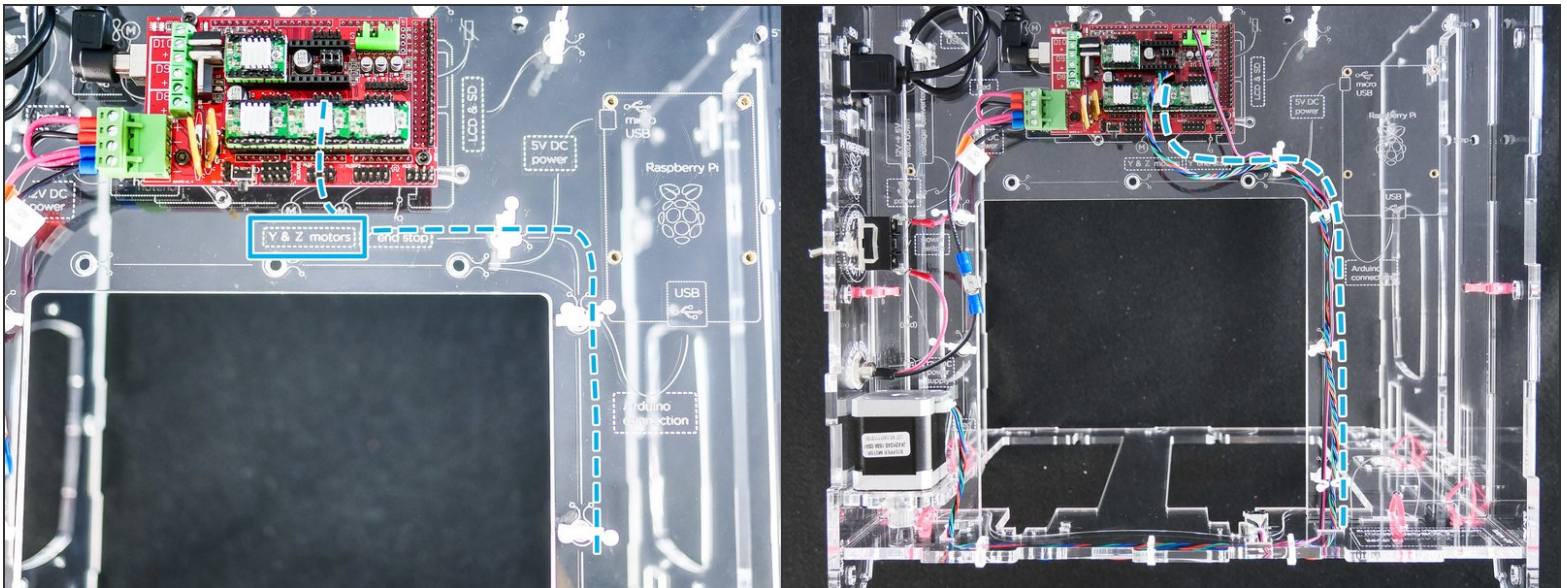
Step 26



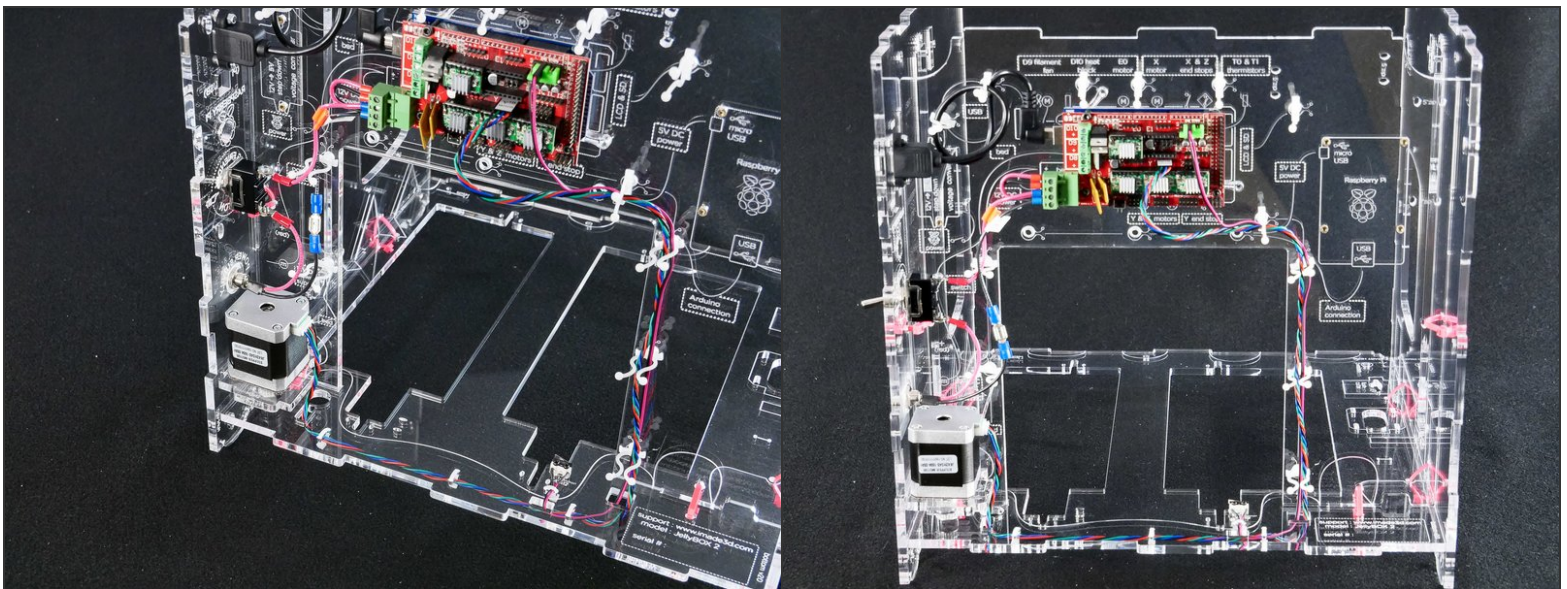
Step 27



Step 28




Step 29 — Looking good!




Step 30 — ↳ Prep an Idler


M3 'nylock' locking nut




M3 oversized washer



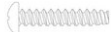
M3 serrated washer




socket head screw M2x12




M3 plastite screw




flat head screw M3x8




flat head screw M3x10




flat head screw M3x25




socket head screw M3x10




socket head screw M3x12




socket head screw M3x16




socket head screw M3x25




socket head screw M3x30



socket head screw M3x45



socket head screw M3x60



idlers



2*

feeder



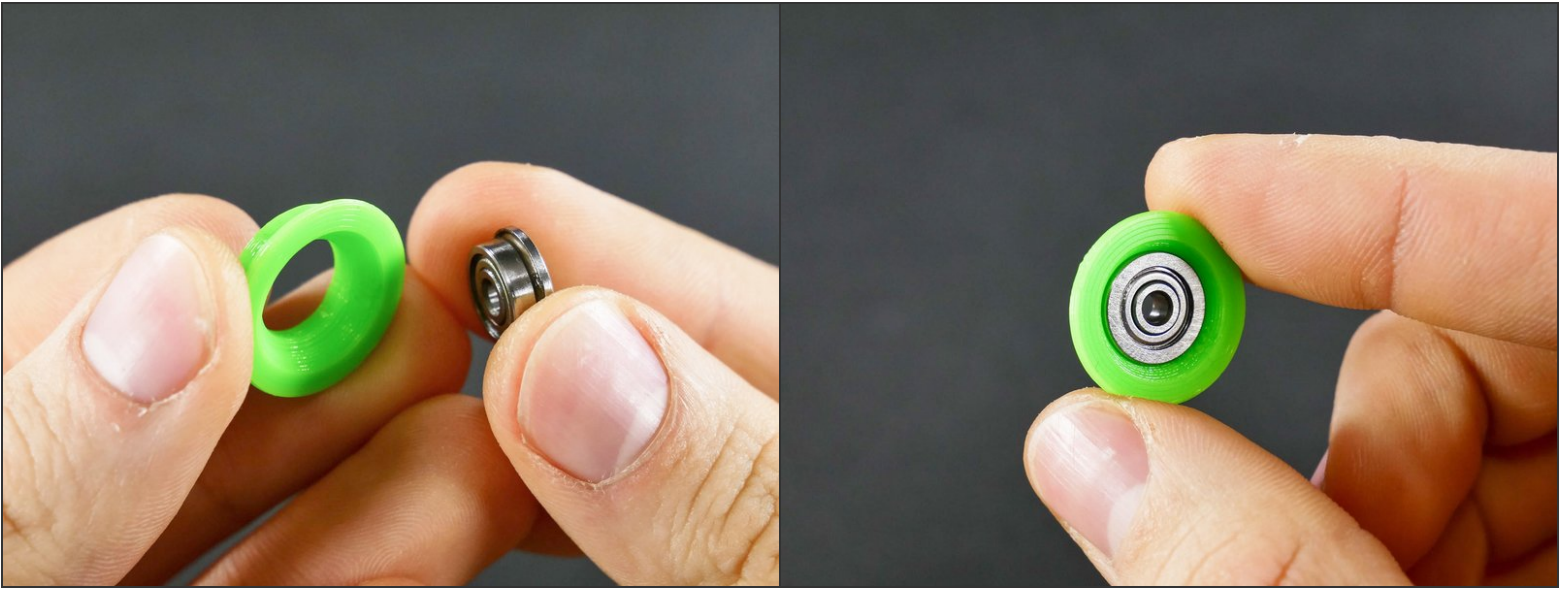
electronics 'dogbone' stand-offs



spare parts



Step 31



Step 32



Step 33

M3 'nylock' locking nut

M3 oversized washer

M3 serrated washer

socket head screw M2x12 12mm

M3 plastite screw

flat head screw M3x8 8mm

flat head screw M3x25 25mm

flat head screw M3x30 30mm

socket head screw M3x10 10mm

socket head screw M3x12 12mm

socket head screw M3x25 25mm

socket head screw M3x30 30mm

socket head screw M3x45 45mm

socket head screw M3x60 60mm

idlers

Y-assembly

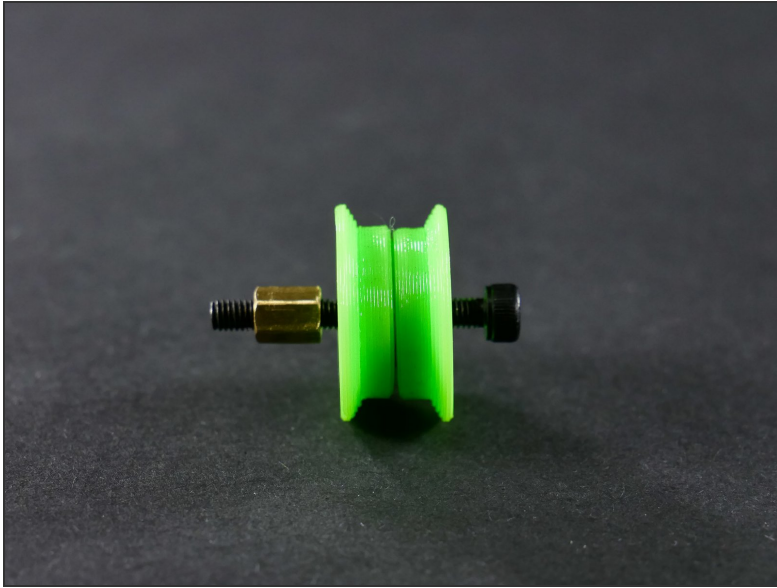
feeder

electronics 'dogbone' stand-offs

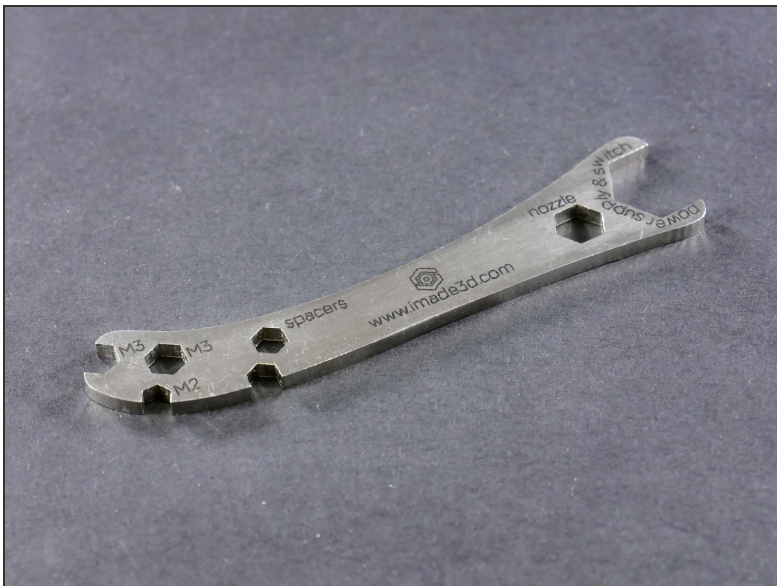
spare parts

A photograph of the parts listed in the table, laid out on a dark surface. From left to right: a small brass-colored nut, a green roller, a green roller, and a long black screw. The green rollers are the same as in Step 32.

Step 34



Step 35



Step 36




- Tighten well.
- This is metal-on-metal tightening, so you do not have to be as gentle as usual.


Step 37 — Looking good!

Step 38 — ↪ Install the Y Idler


M3 'nylock' locking nut




M3 oversized washer





1*





2*

























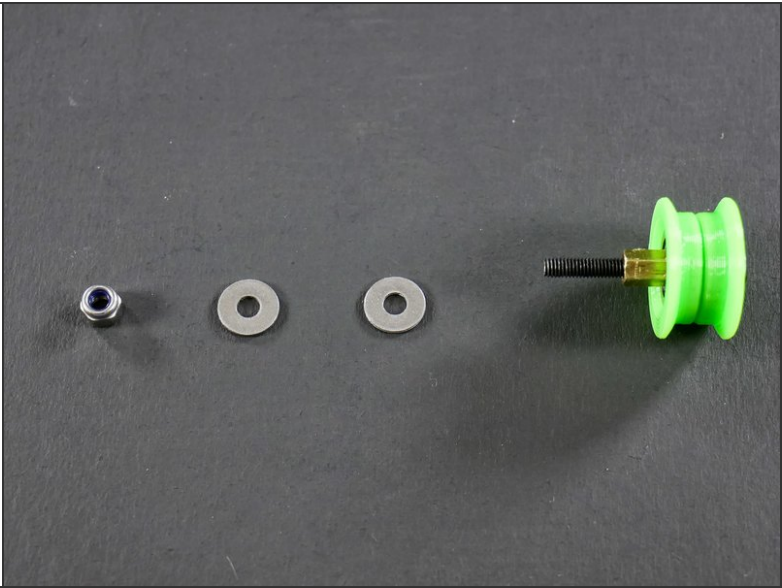




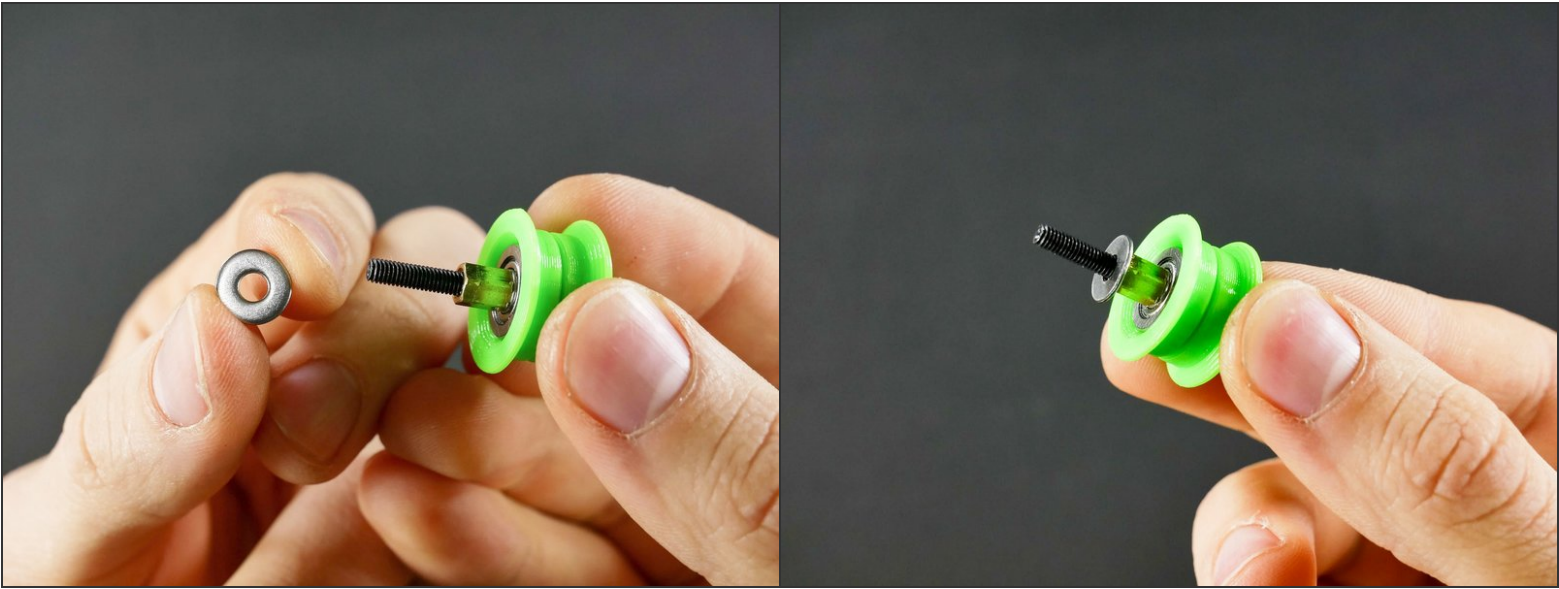




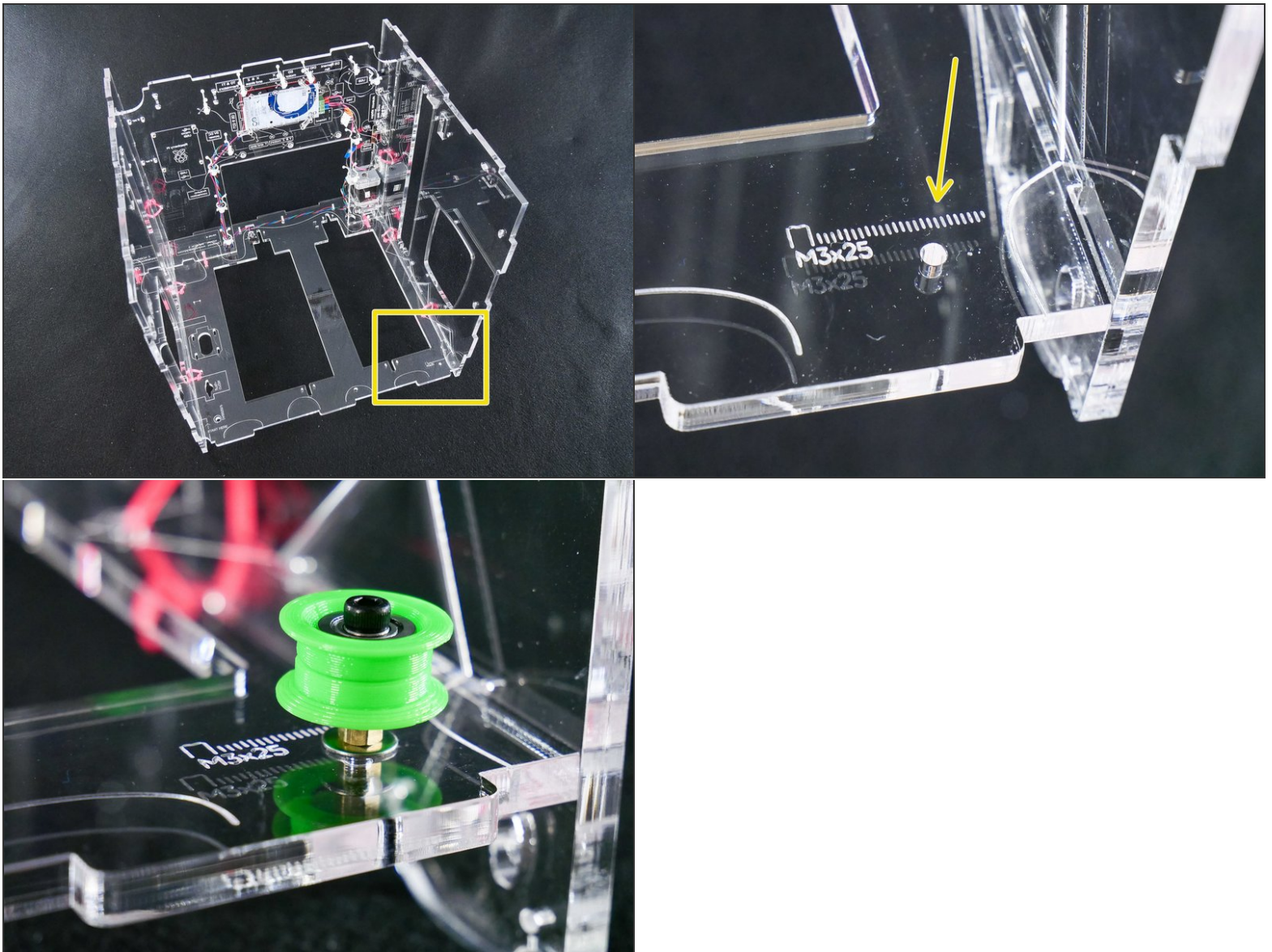




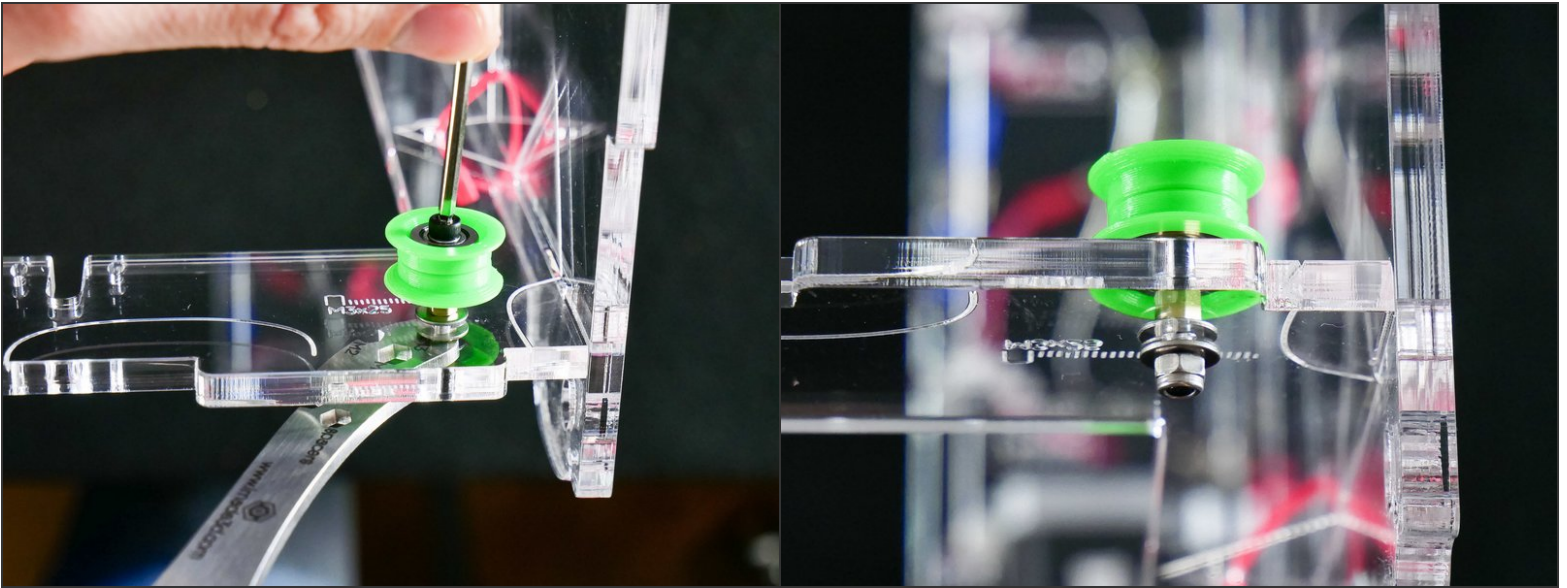
Step 39



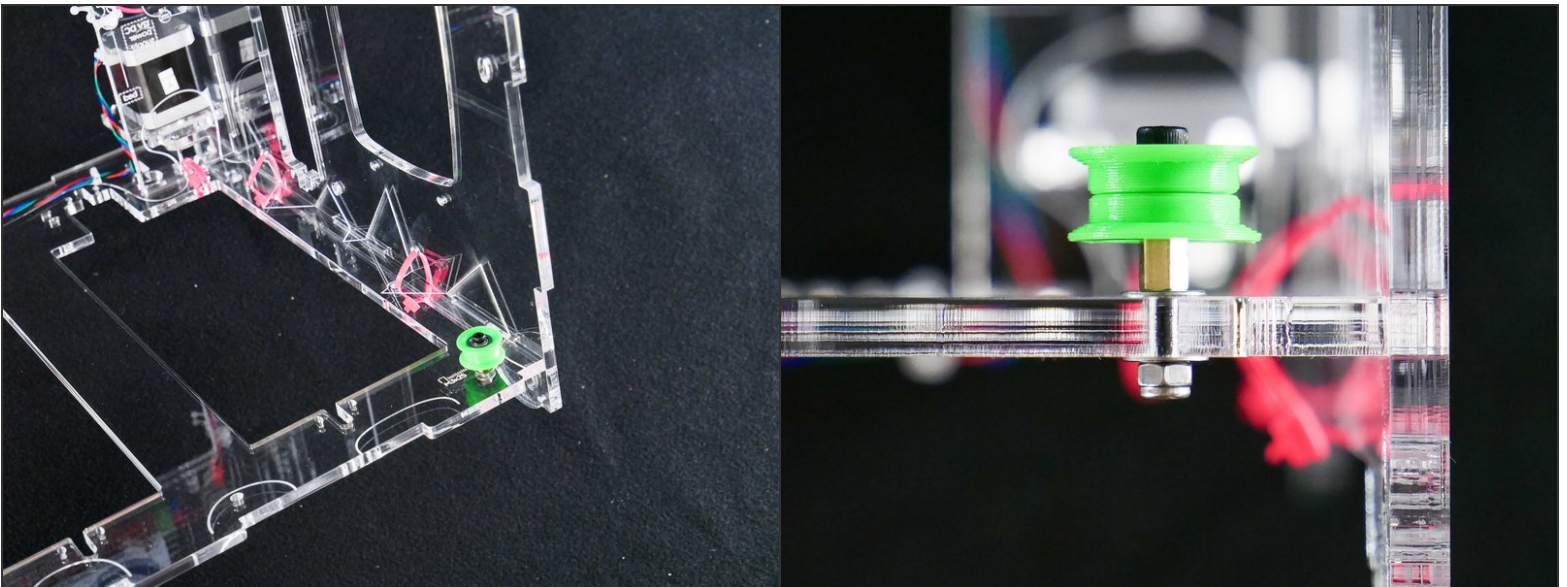
Step 40



Step 41



Step 42 — Looking good!



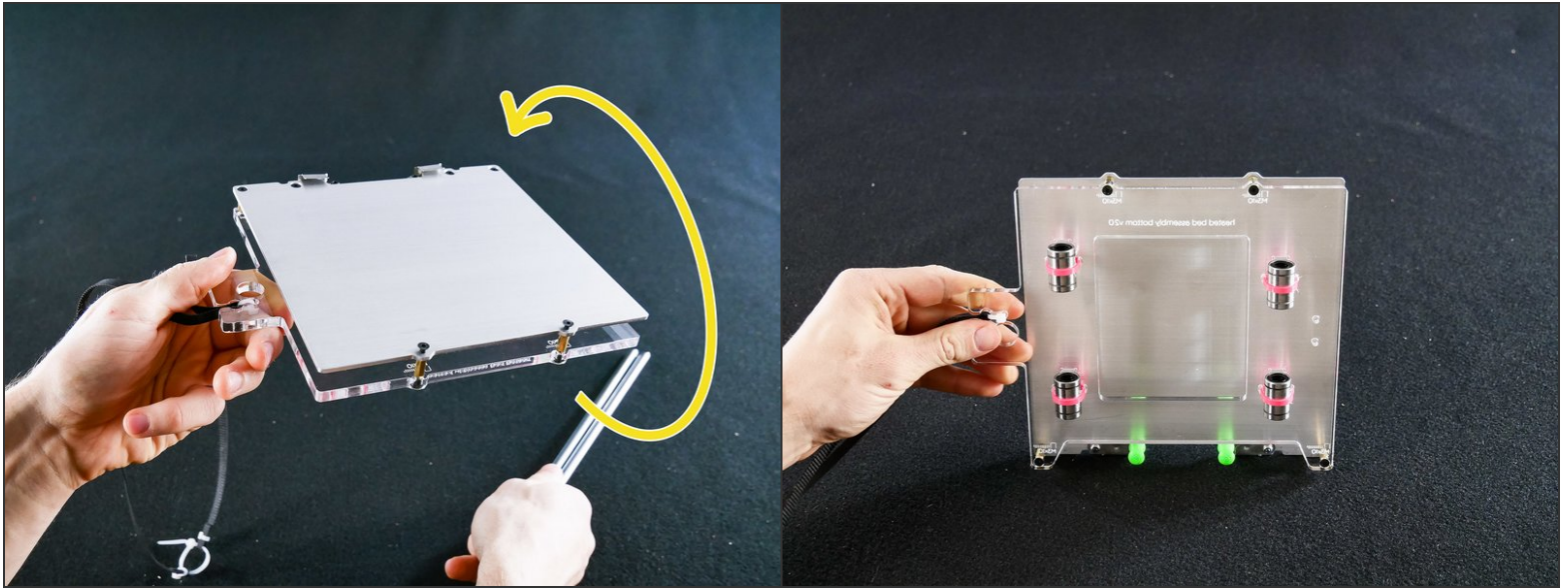
Step 43 — ↳ Insert the Y Assembly



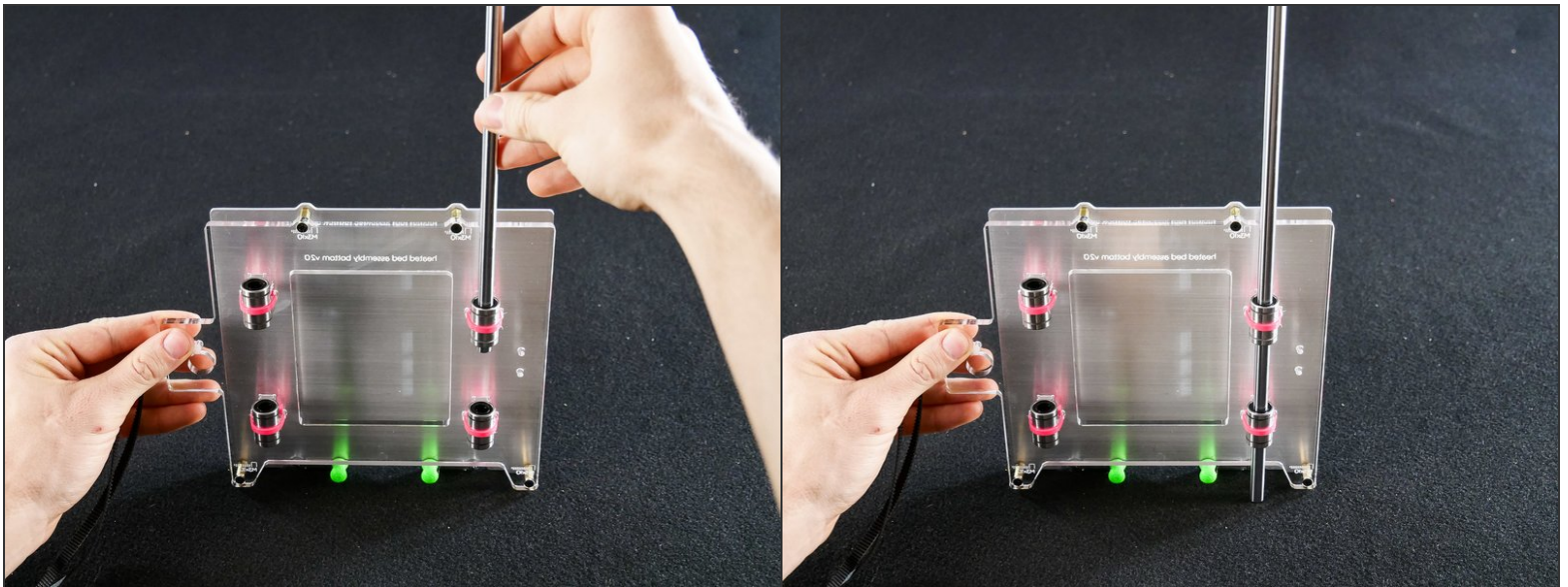
Step 44



Step 45

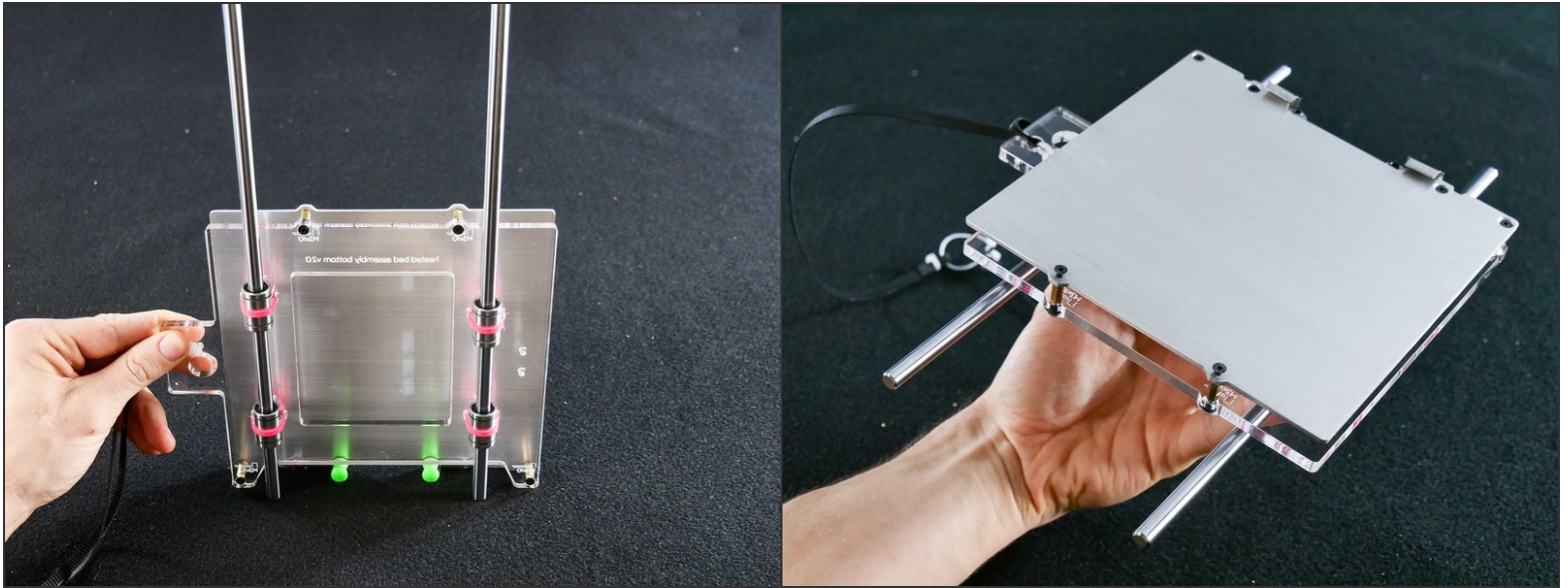


Step 46



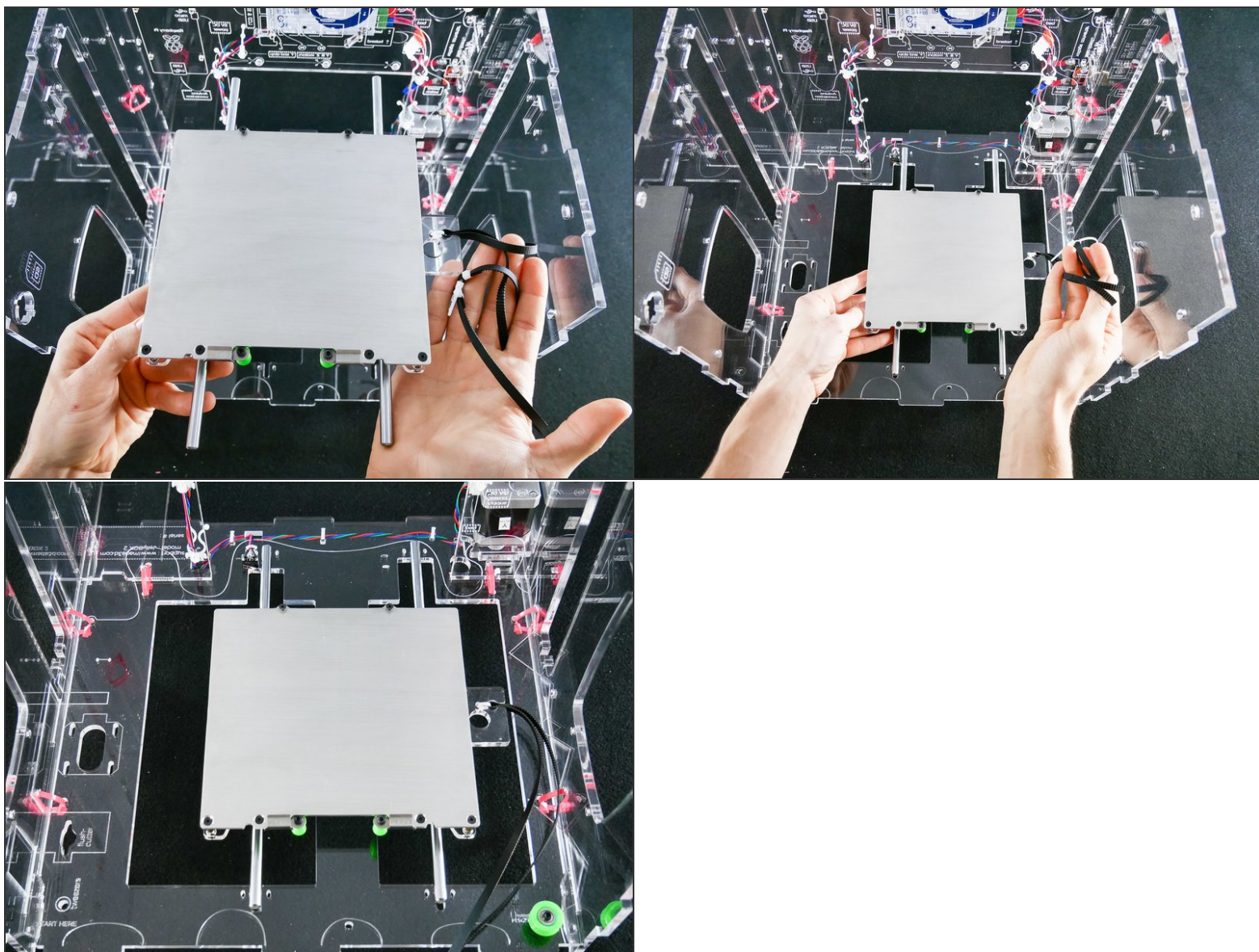
⚠ Be gentle. Do no force the rods and keep them straight or you may damage the ball bearing by knocking some balls out.

Step 47

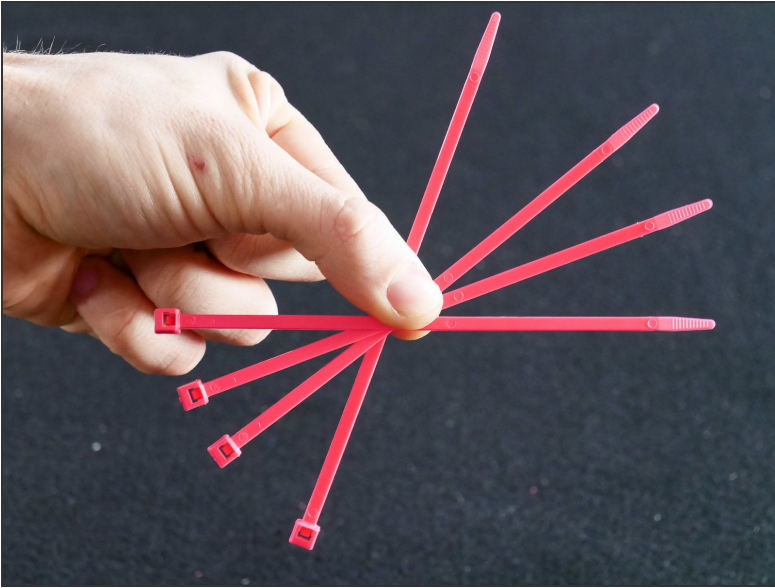


- Check ✓

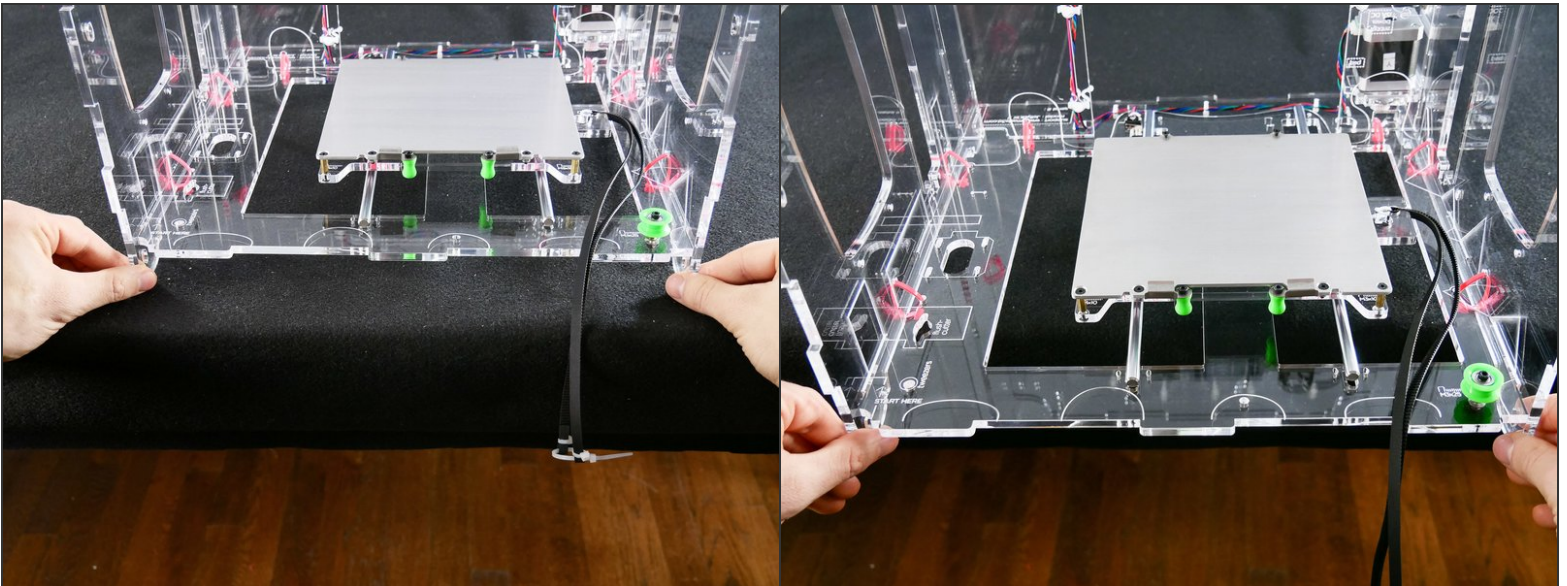
Step 48



Step 49

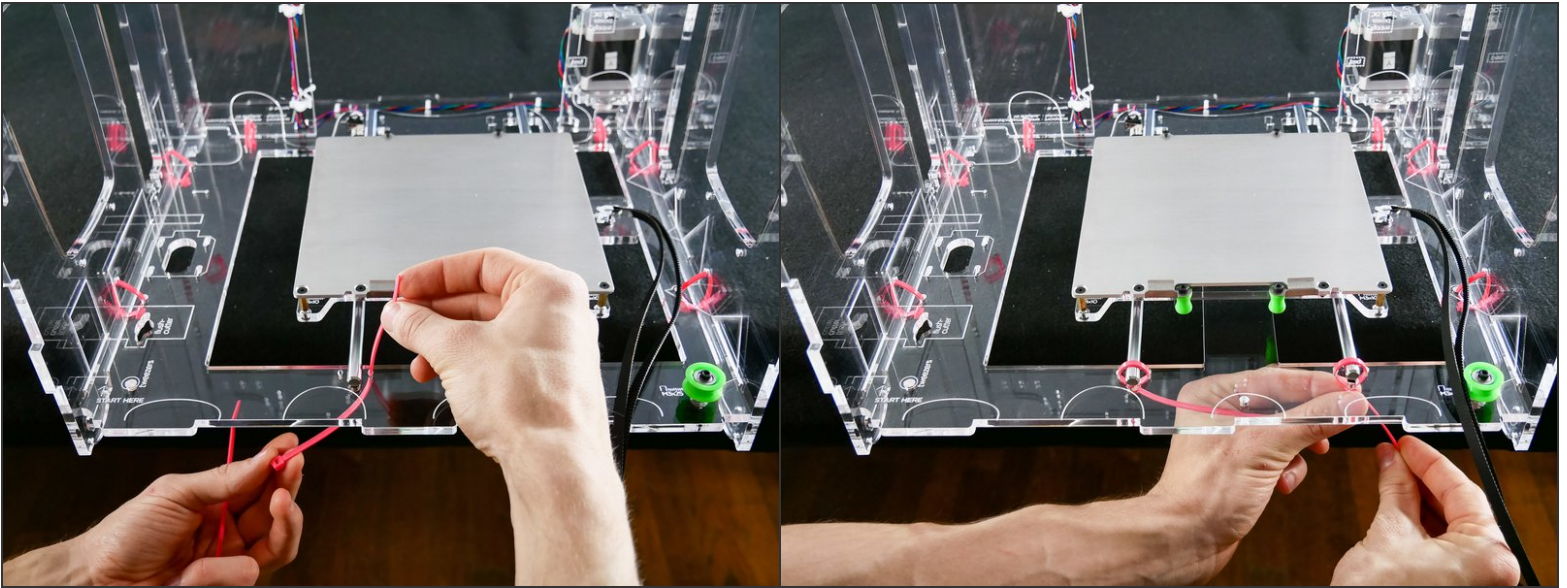


Step 50

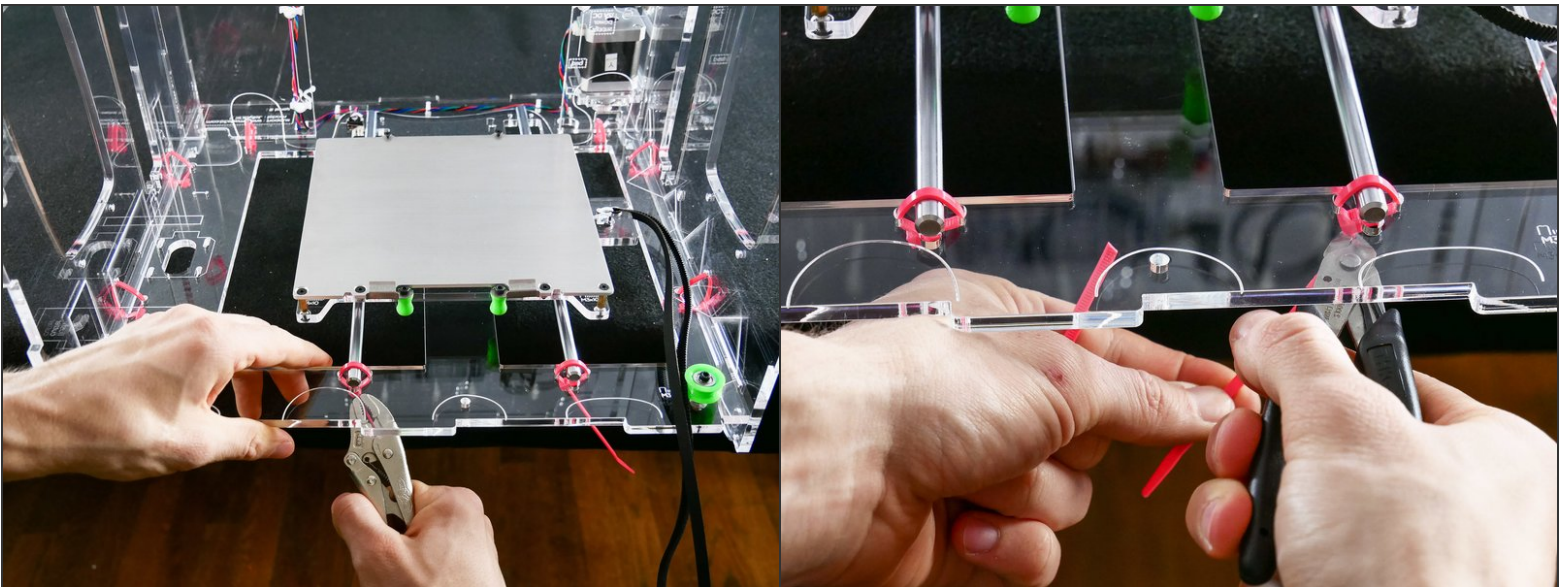


- Place your JellyBOX over the **edge** of a table.

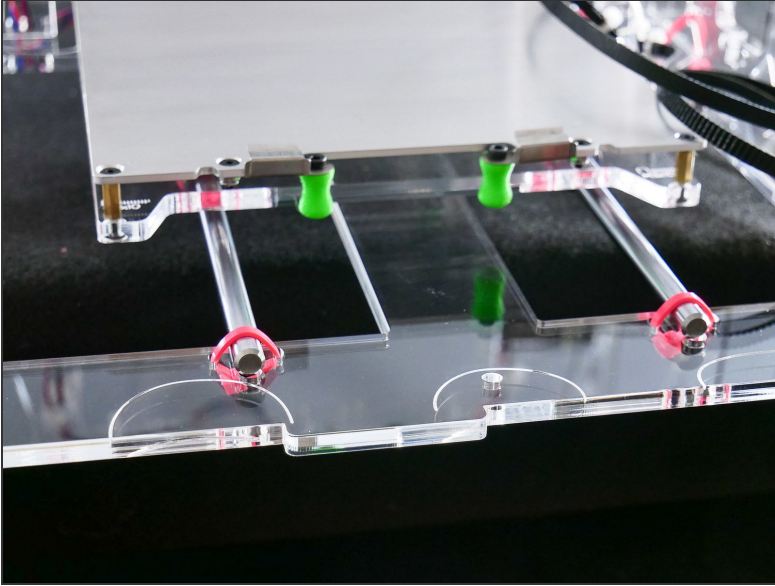
Step 51



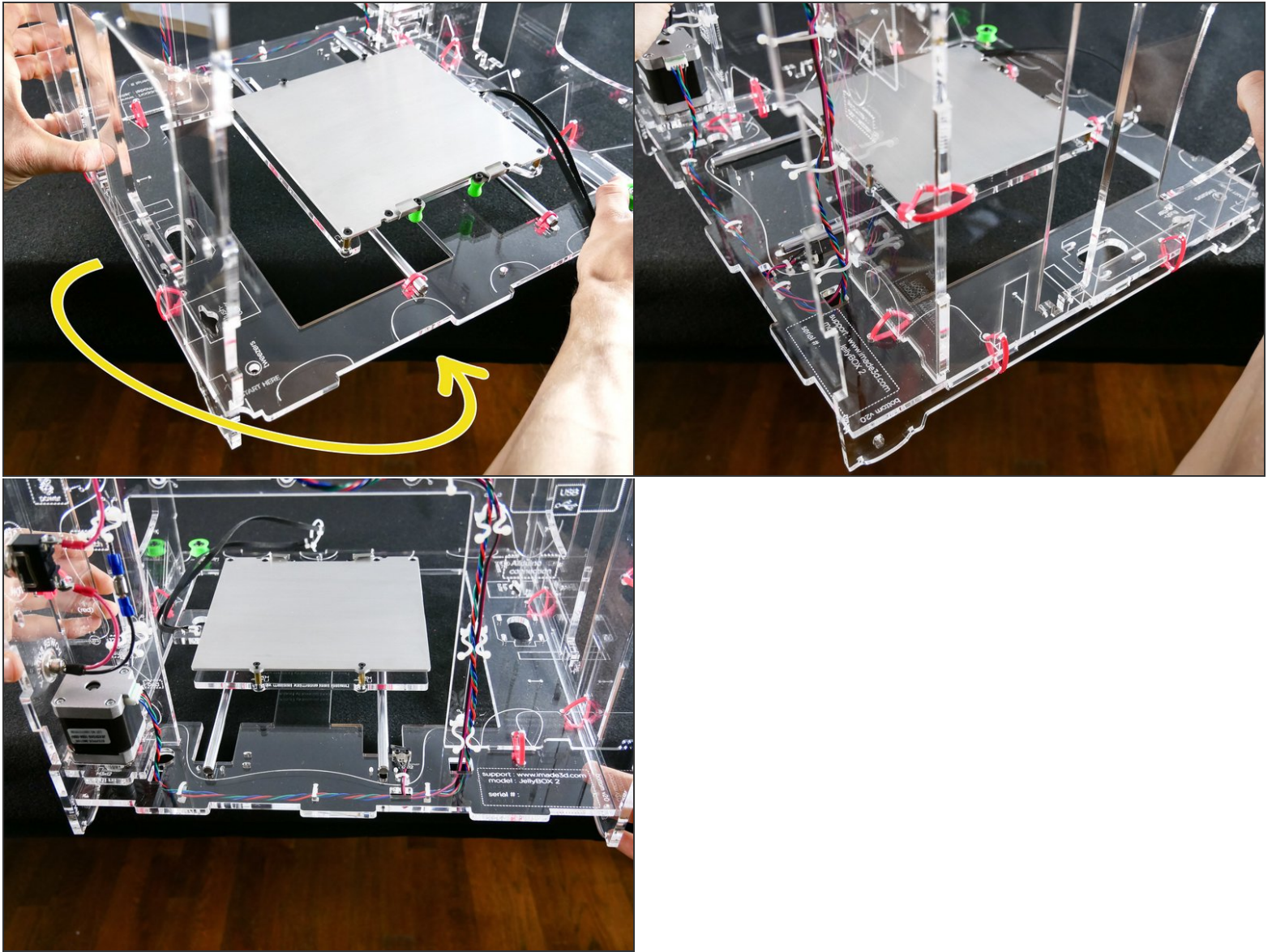
Step 52



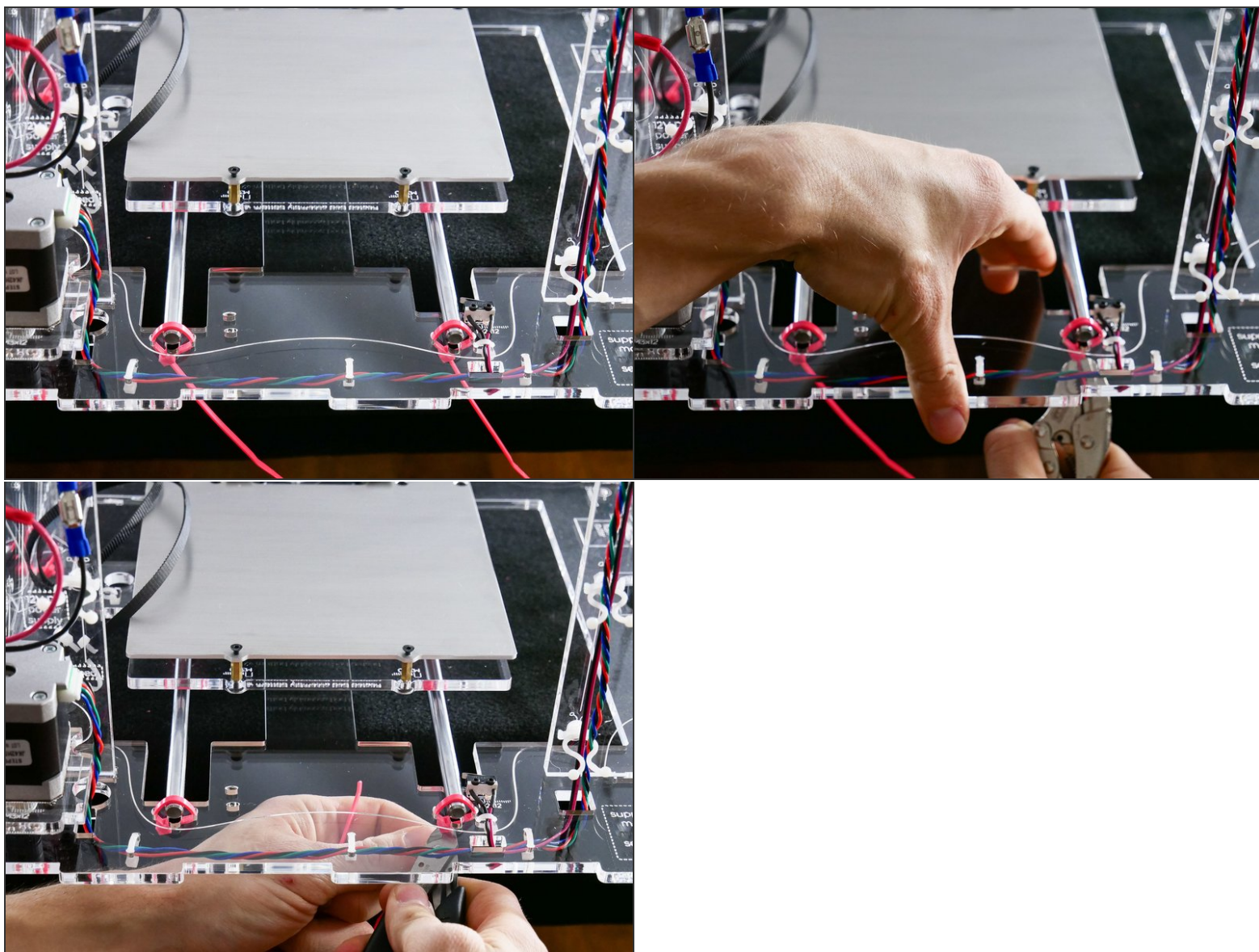
Step 53



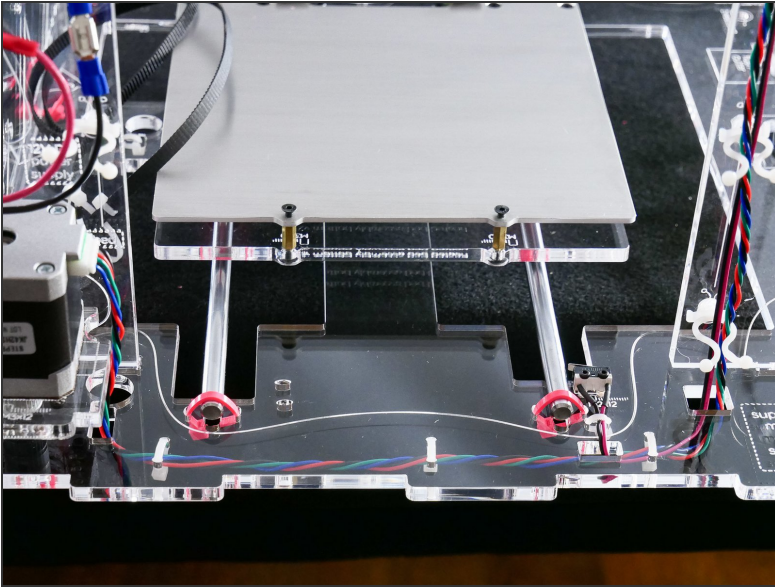
Step 54



Step 55



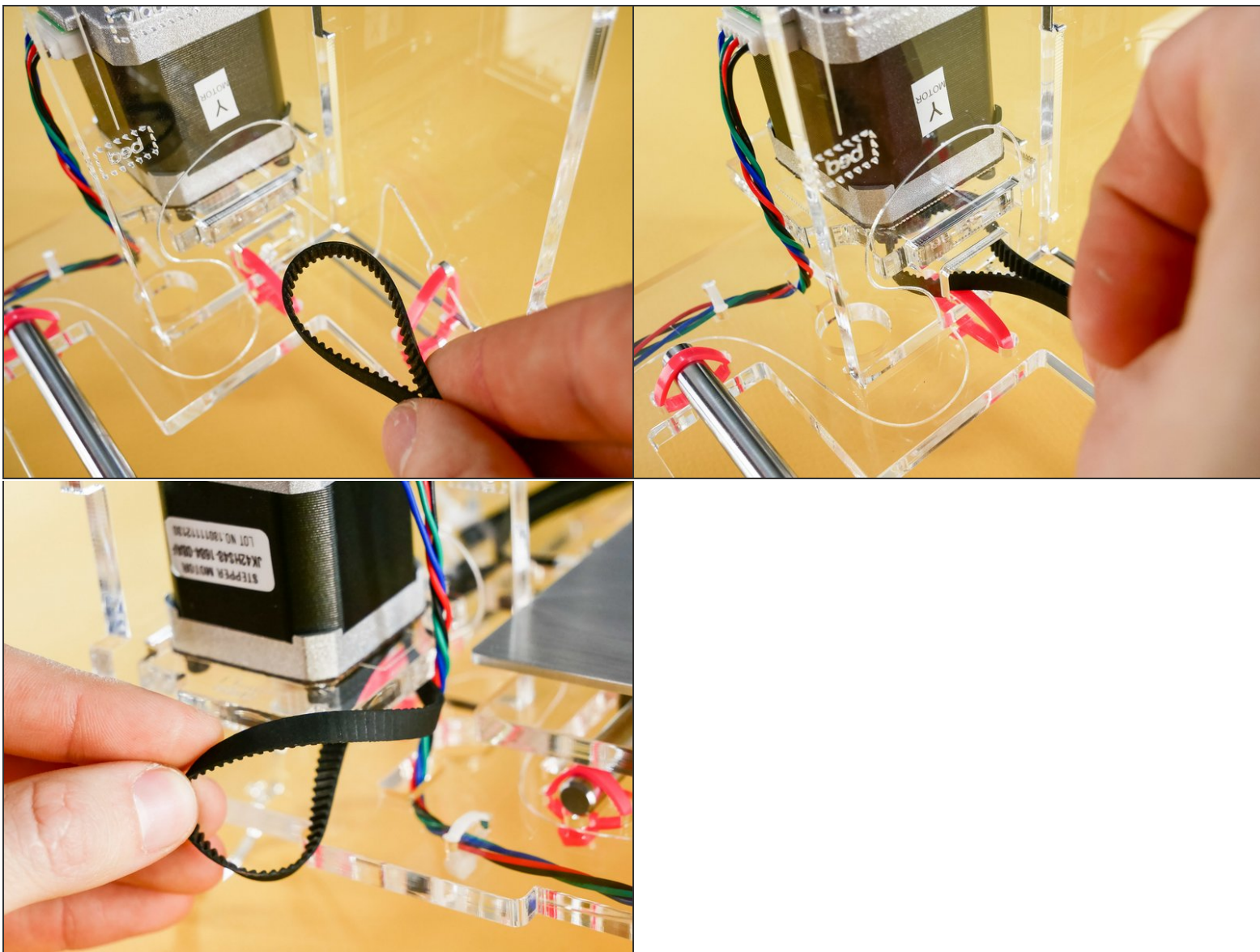
Step 56 — Looking good!

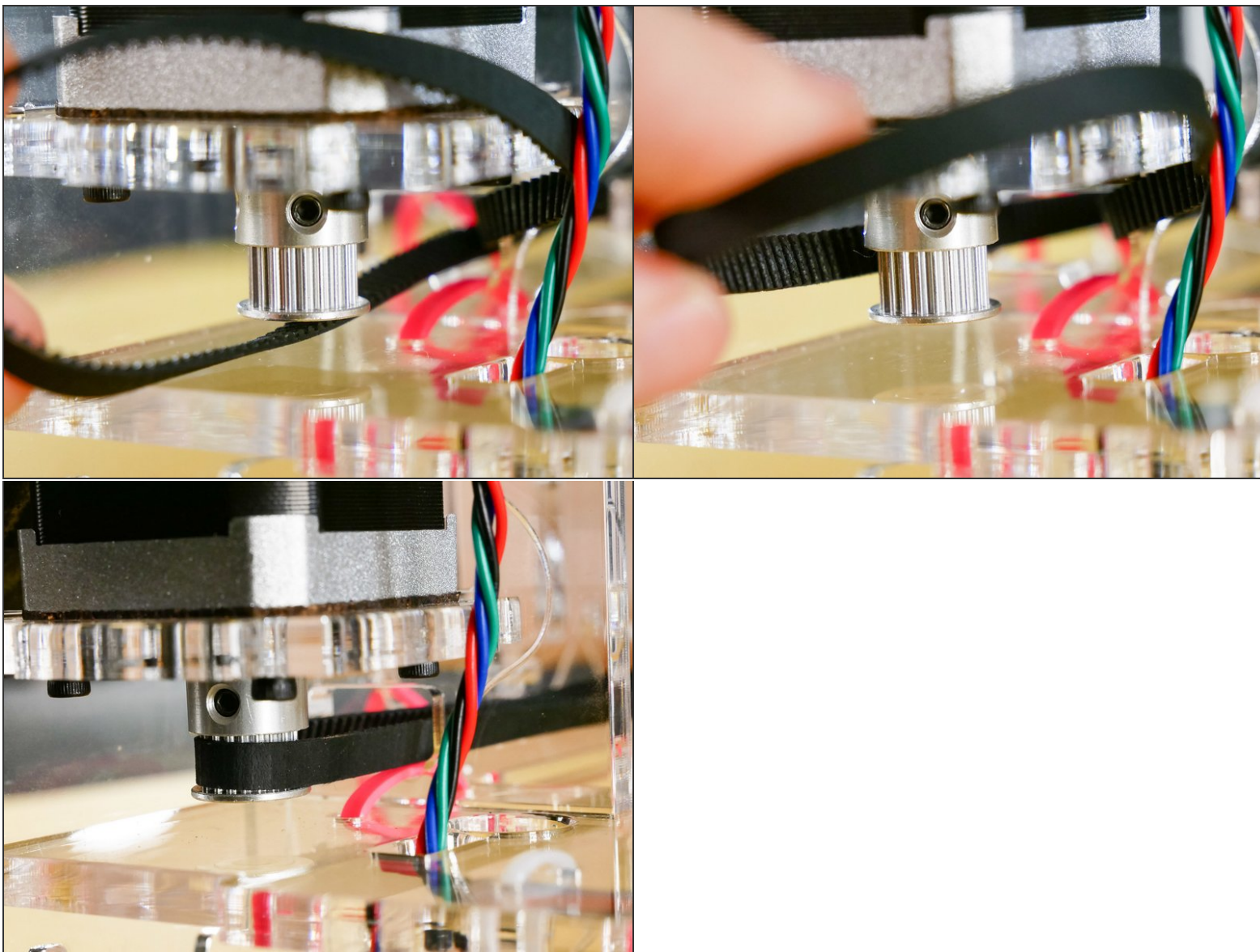


Step 57 — ↳ Install the Y Belt

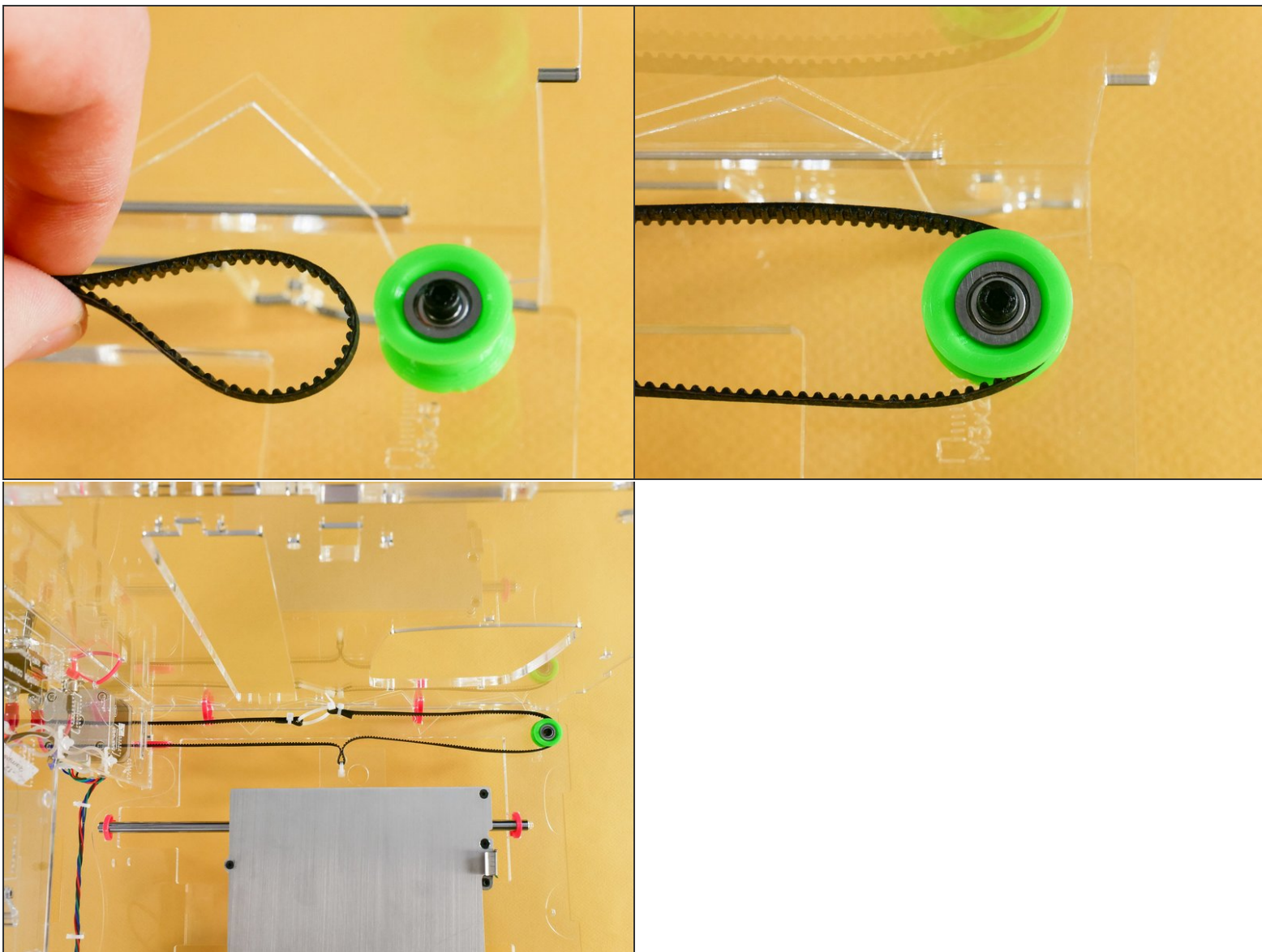


Step 58

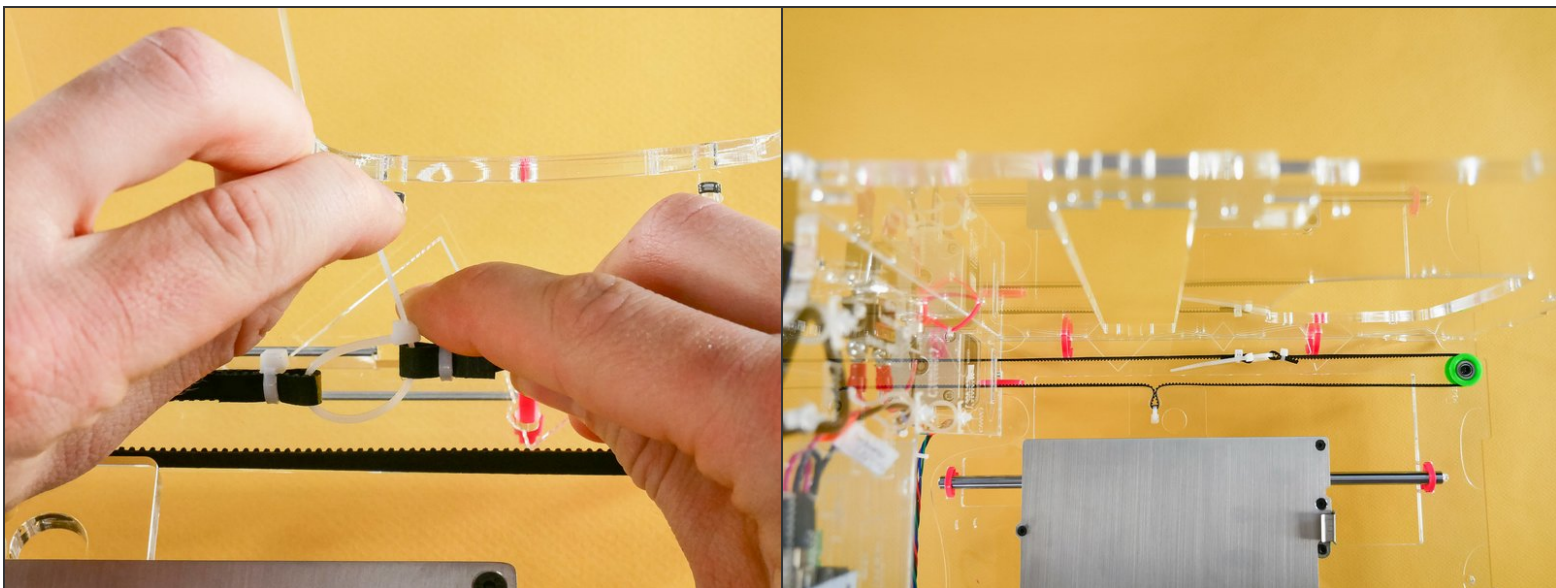


Step 59

Step 60



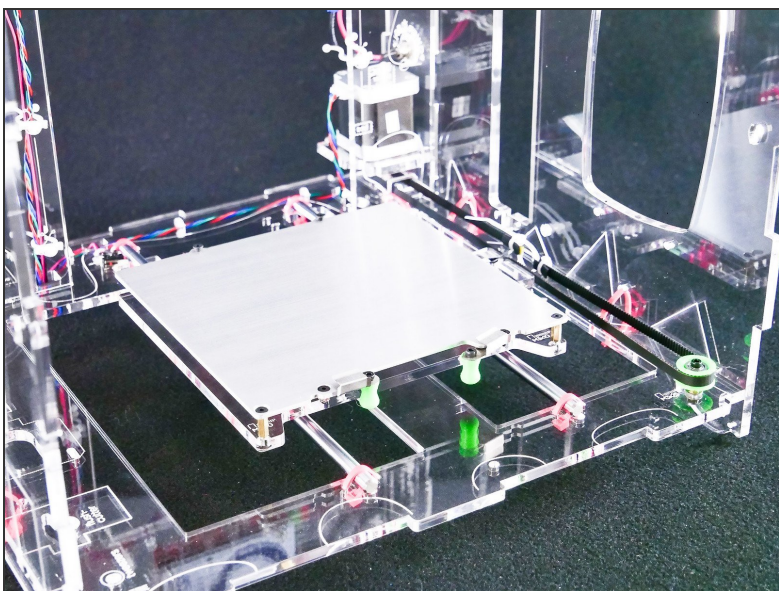
Step 61



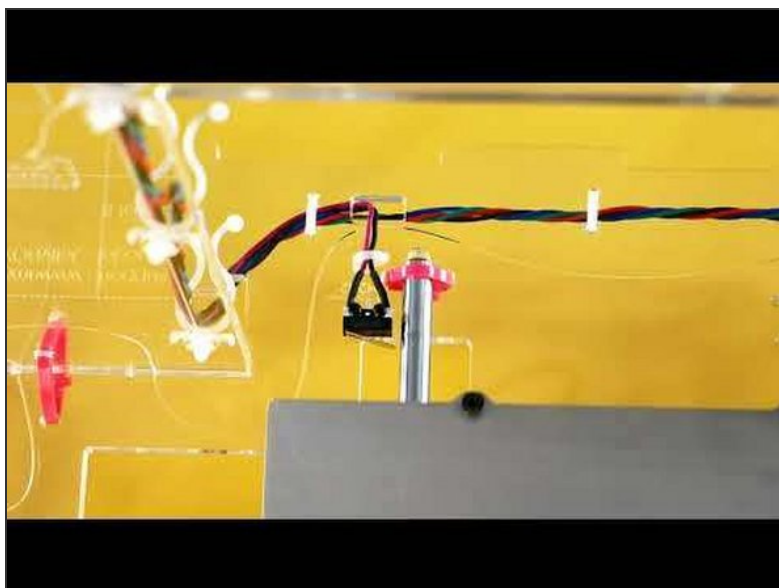
- Lightly tension the belt.

⚠ We'll dial in the belt tension later, when the whole frame is finished.

Step 62 — Looking good!



Step 63 — ► Video: Y Mechanical Checkpoint (25s)



- ► Video: Y Mechanical Checkpoint (25s)
- ⚠ Do not move too fast. You are generating current by forcing the motor to rotate. If you generate too much current, you could damage your electronics; namely the drivers.
- ⚠ Make sure that the Y EndStop gets engaged by one of a Y Assembly bearings. There's an audible **click**.
- Make sure the Y assembly is moving smoothly.

What's Next?

Get back to the [← Easy Kit Build Flow](#) and continue with the next guide.