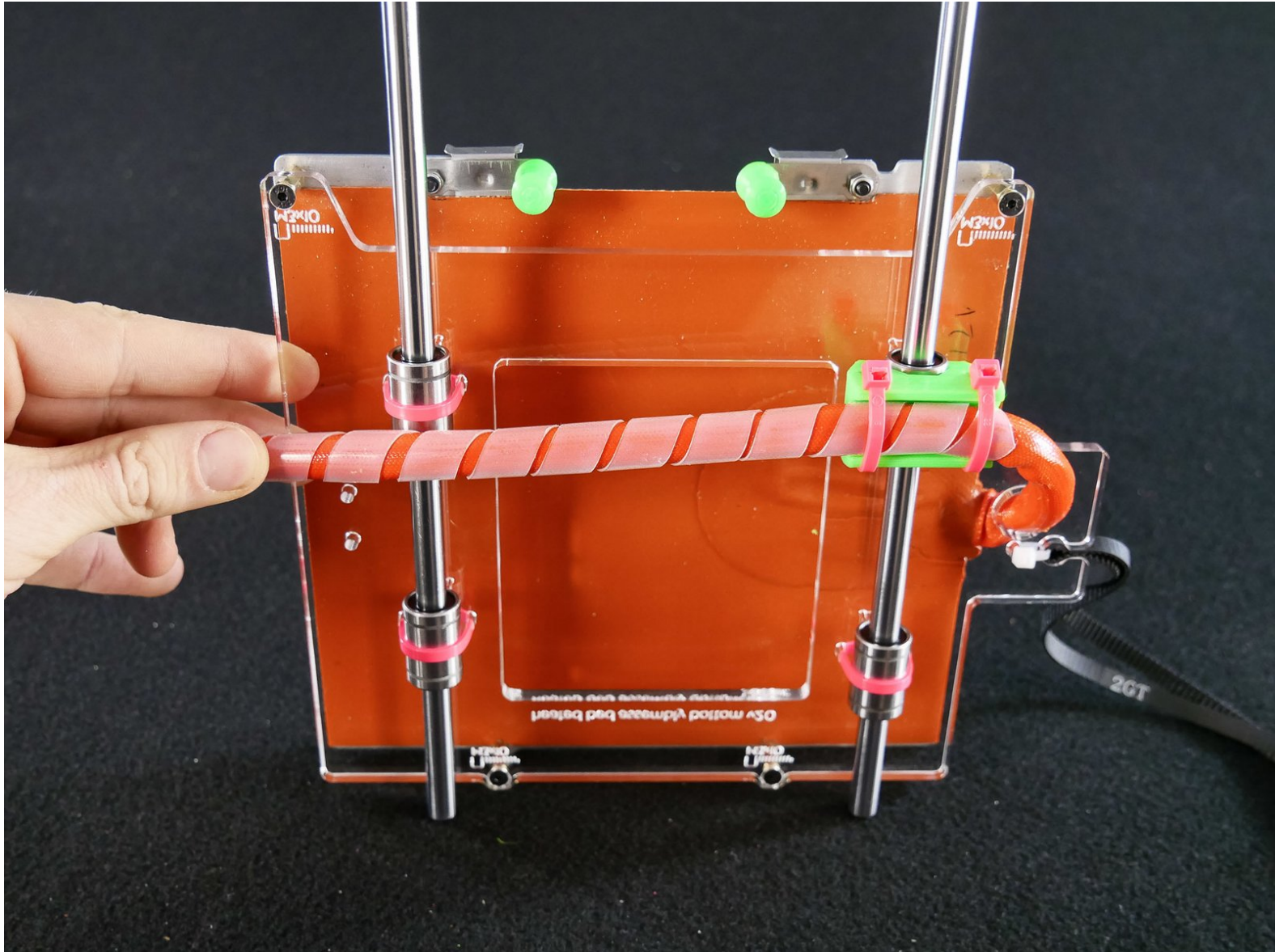




Install the Heated Y Assembly

Install the Heated Y Assembly

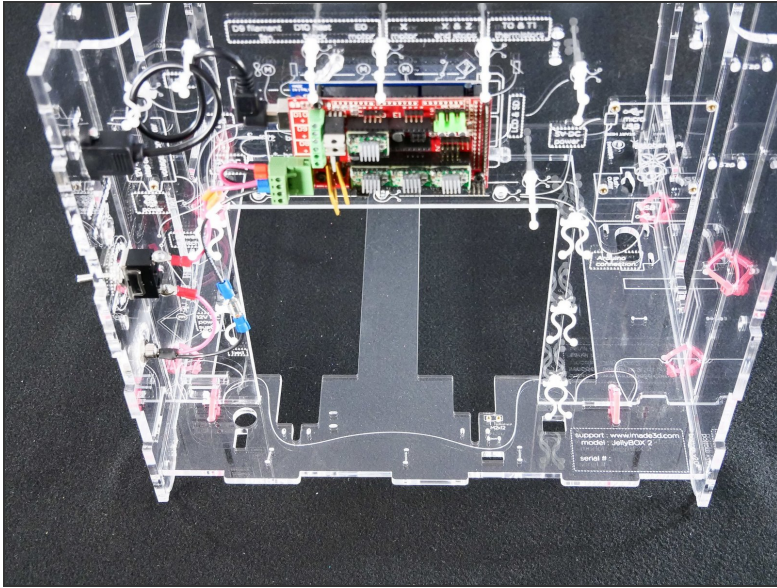


INTRODUCTION

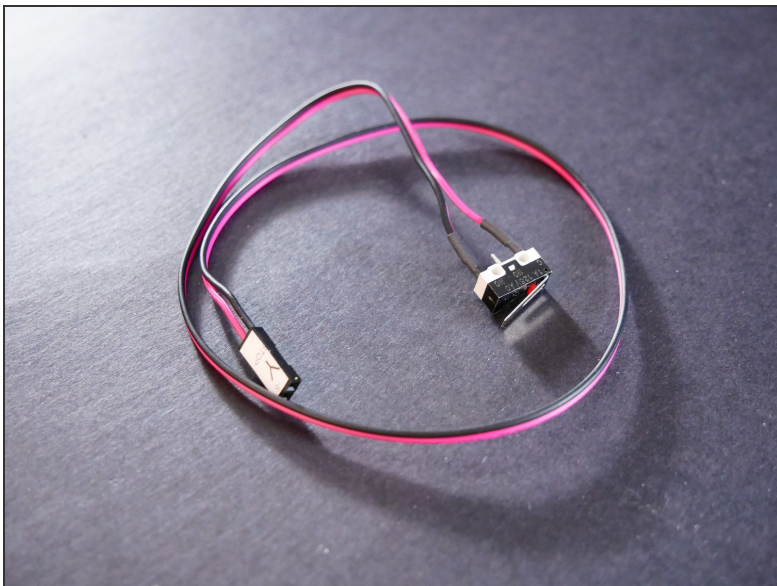
Not the guide you are looking for?

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

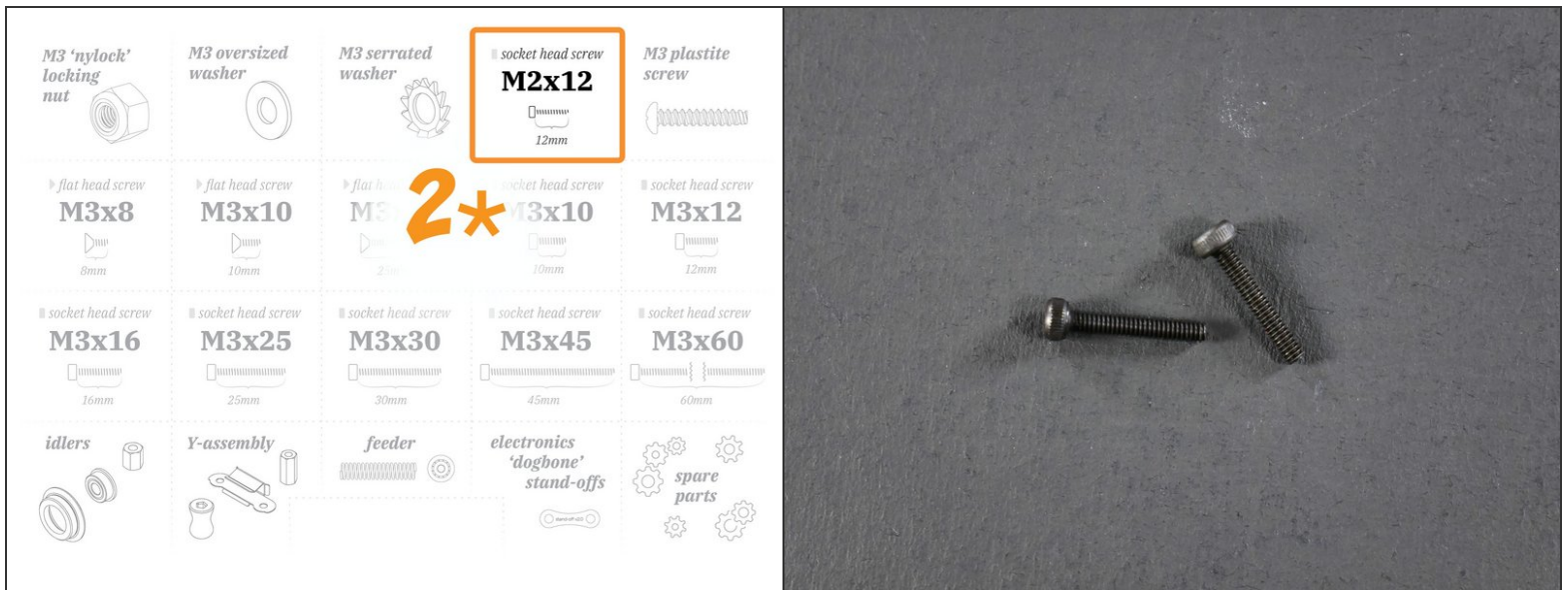
Step 1 — ↳ Y Endstop



Step 2

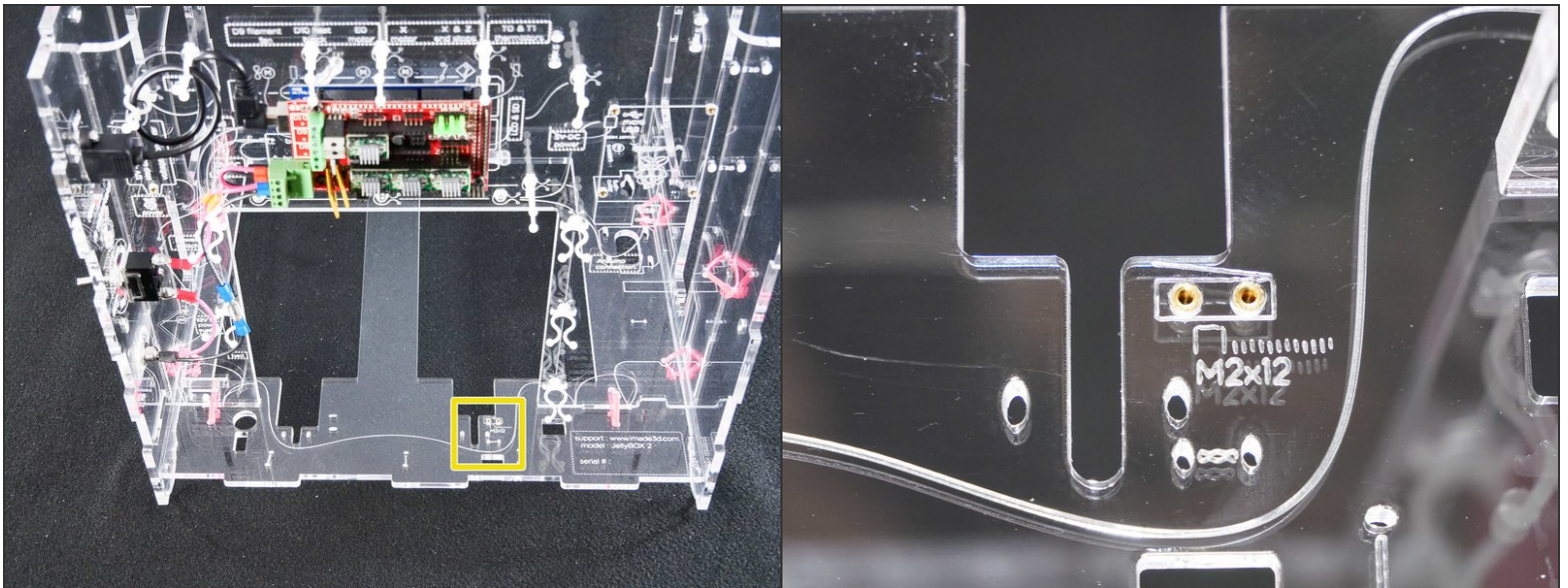


Step 3

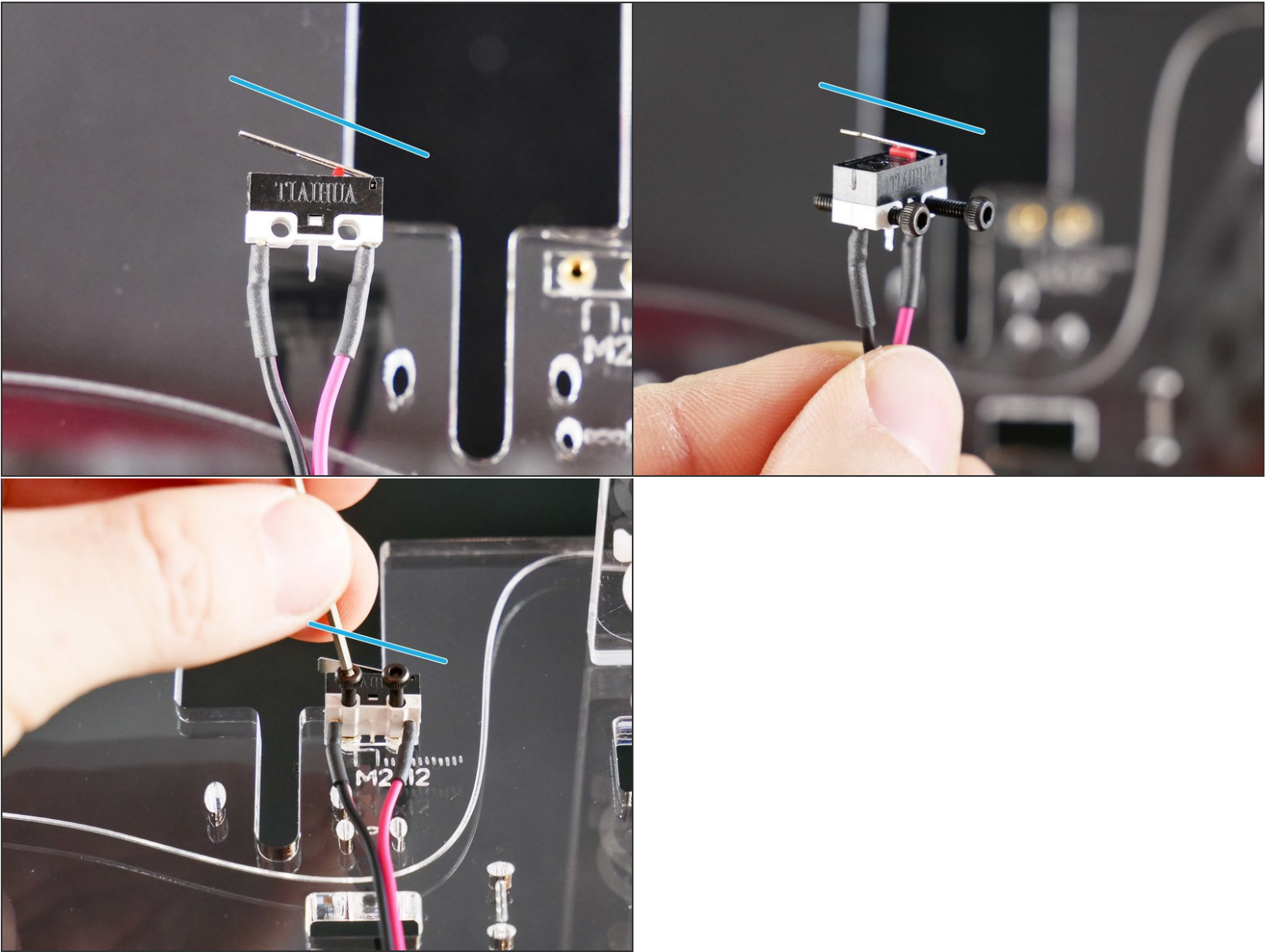


- M2x12 (these are the tiniest)

Step 4

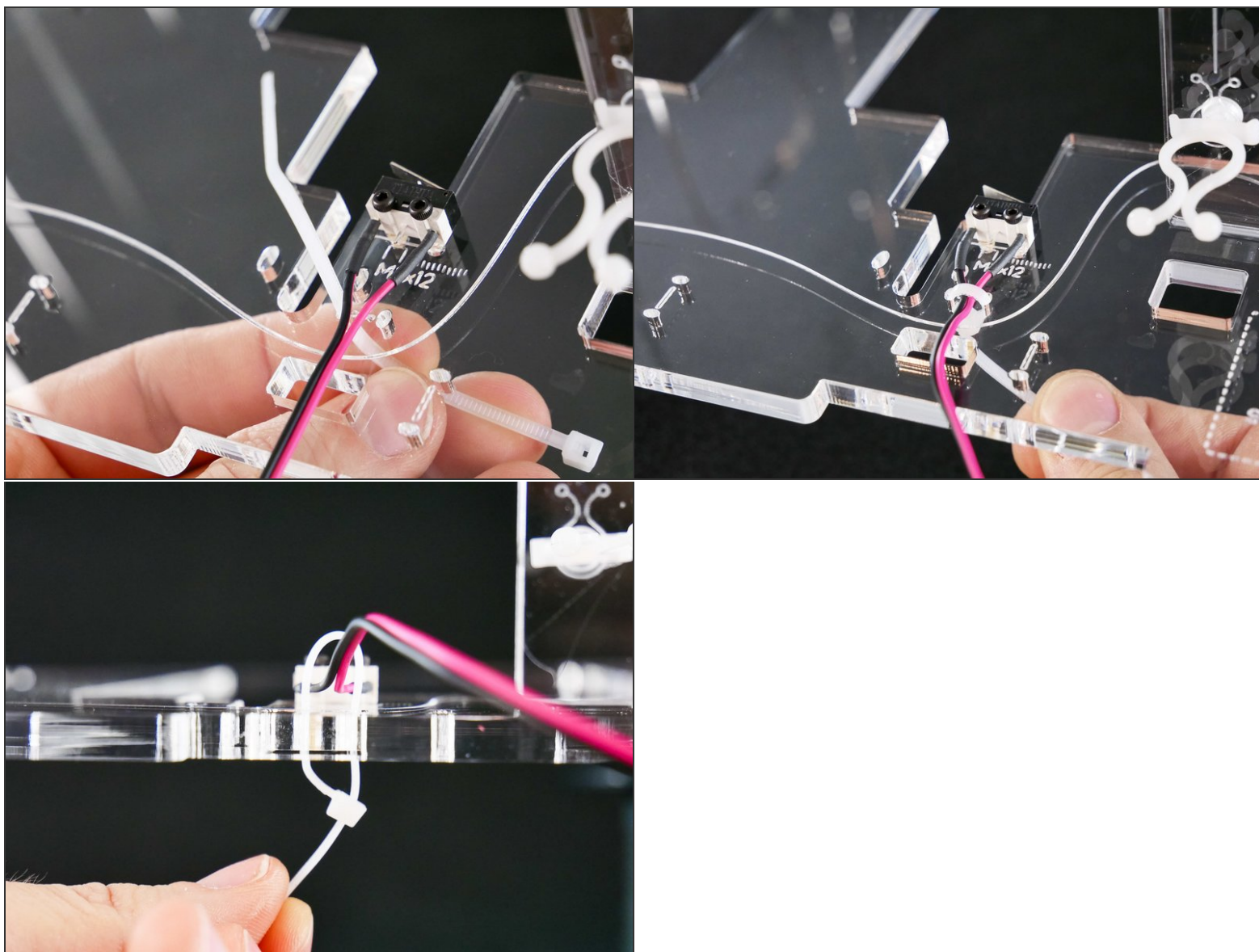


Step 5



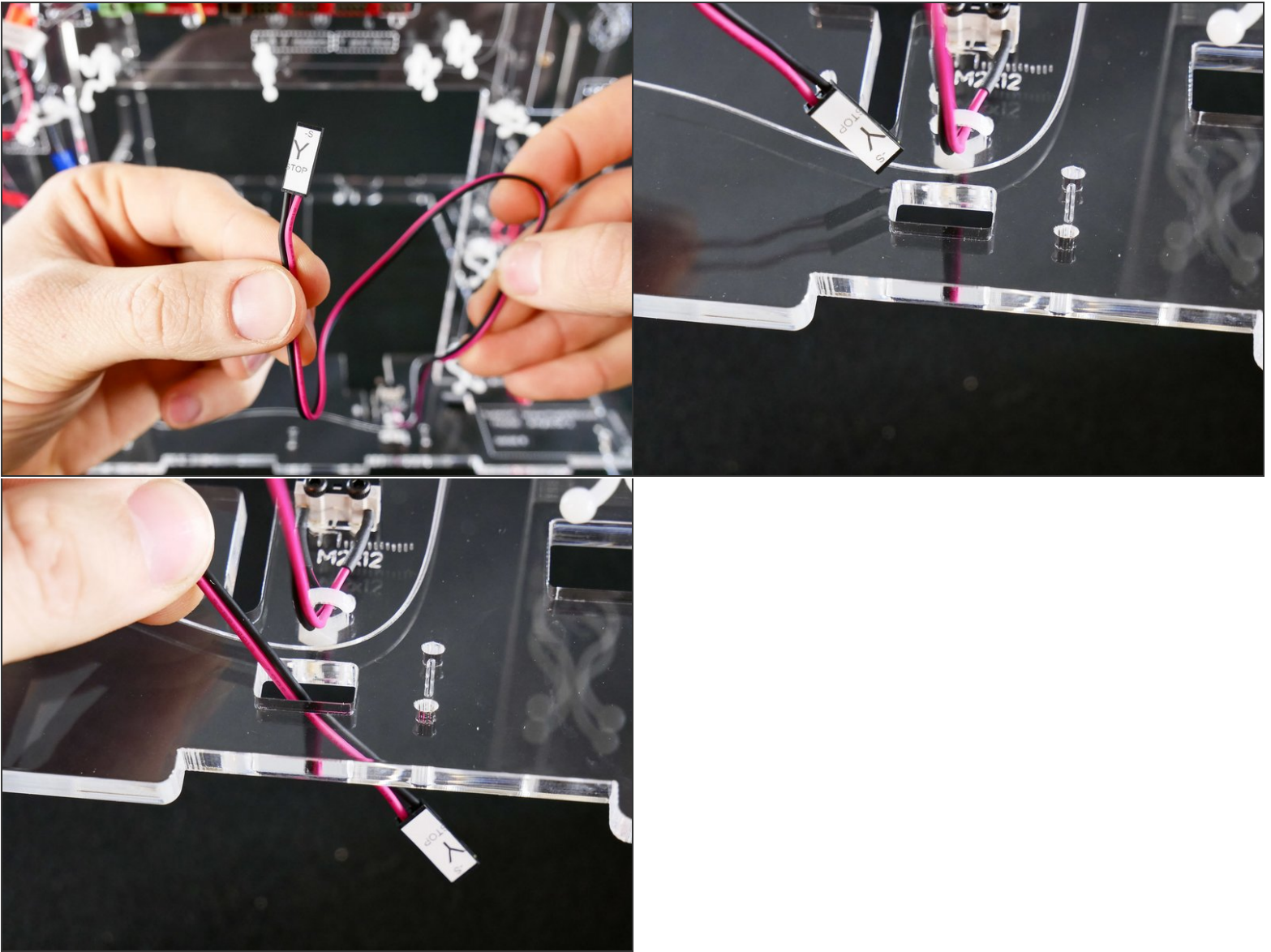
- The switch **reed** needs to point towards left.

Step 6

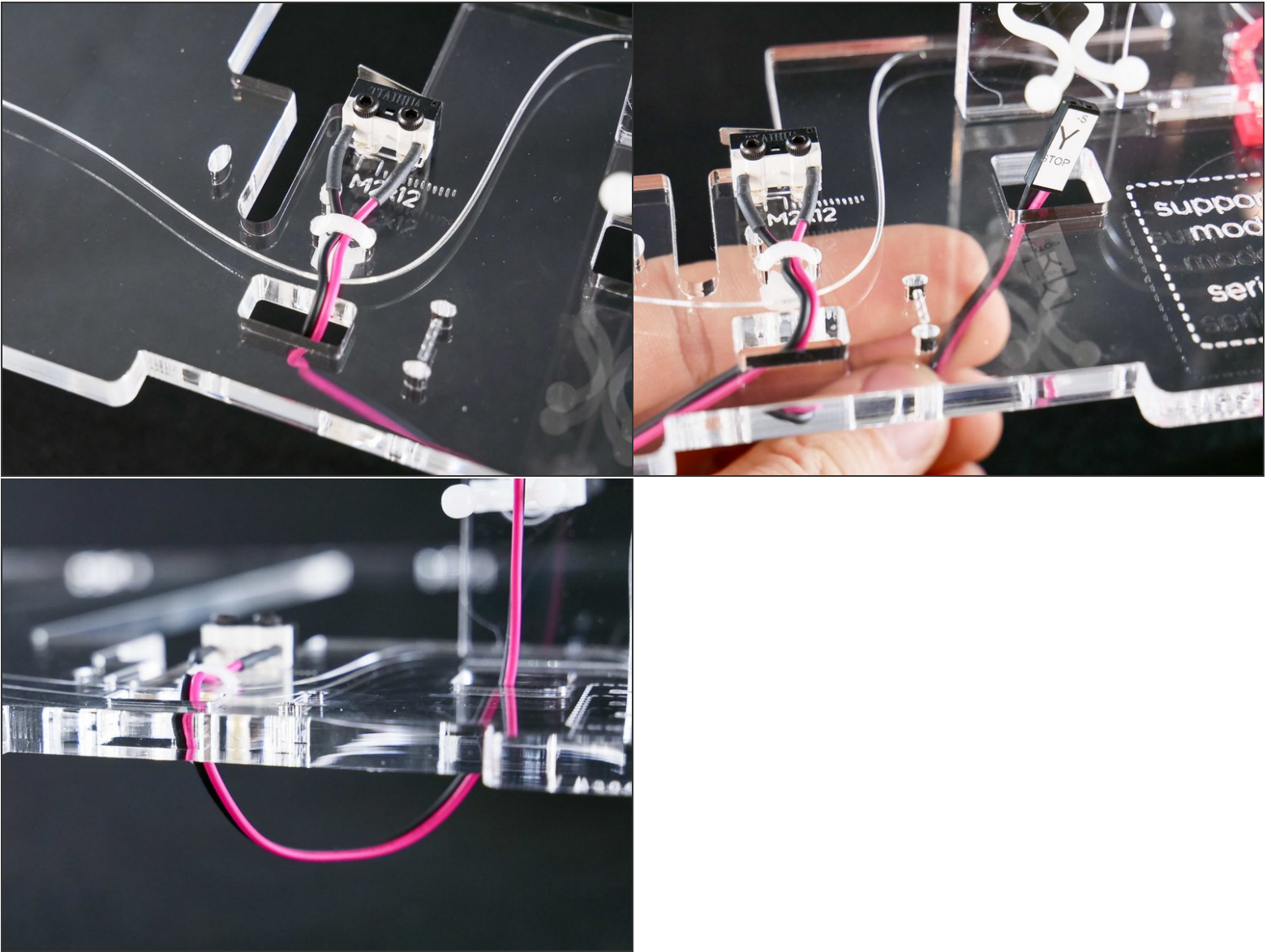


[Update] This zip tie (and the holes in the Bottom) was removed in early 2018 to speed up the build. Simply **skip it**.

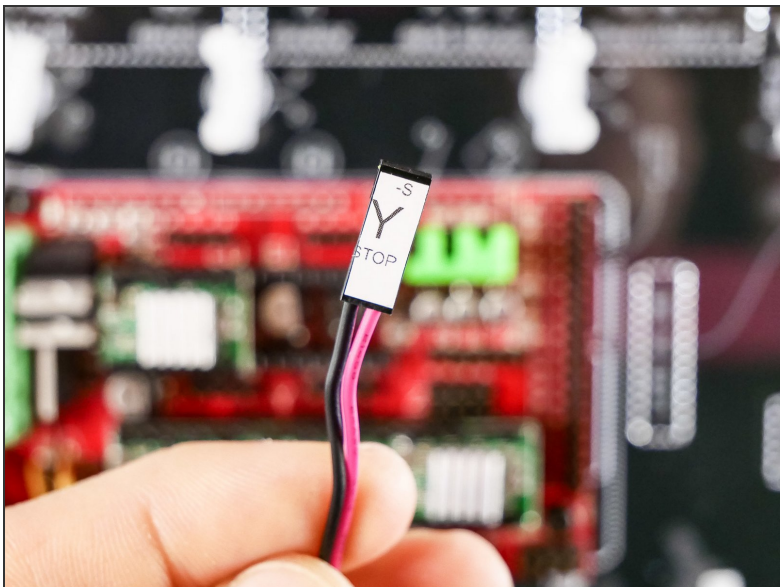
Step 7



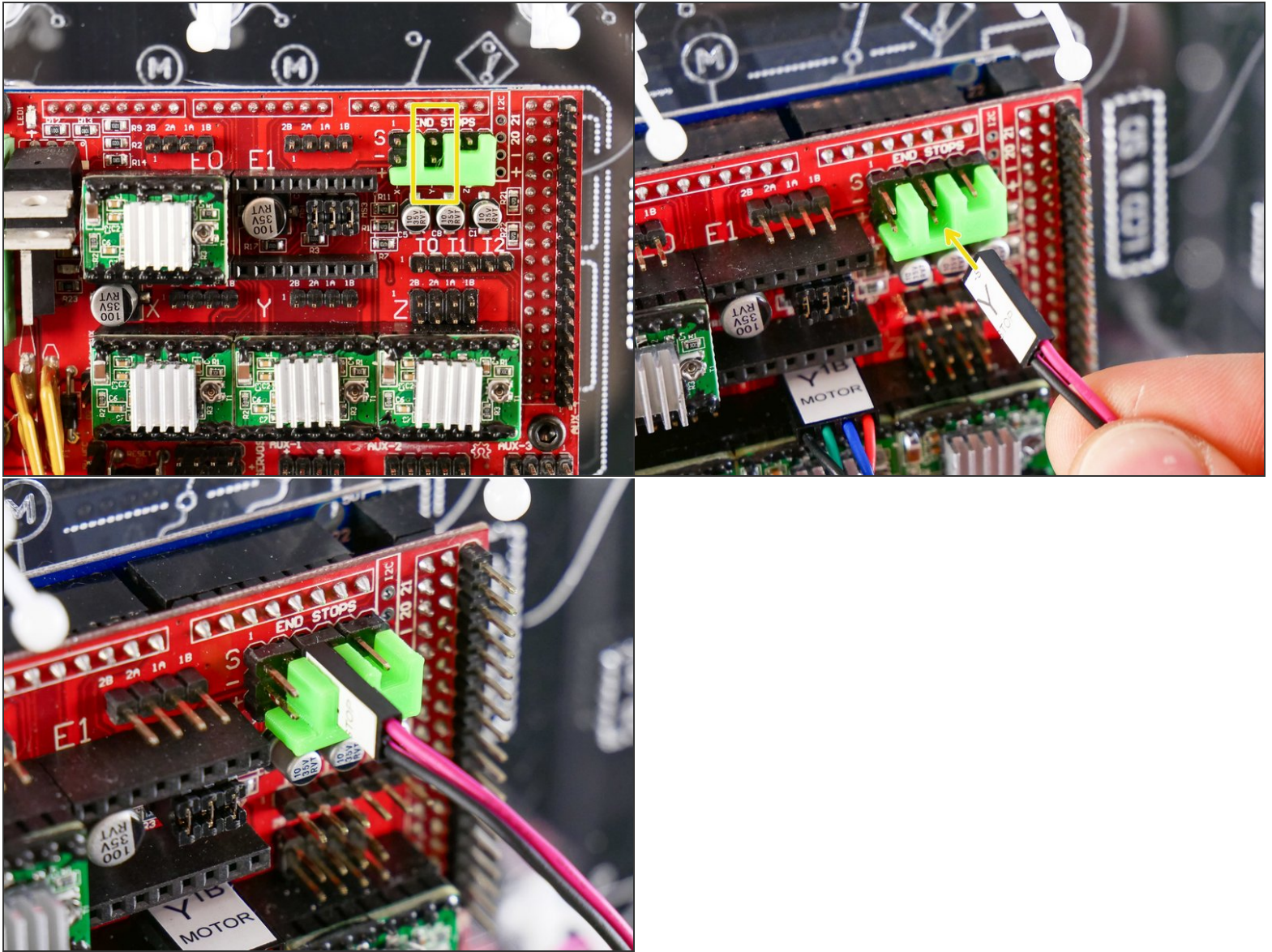
Step 8



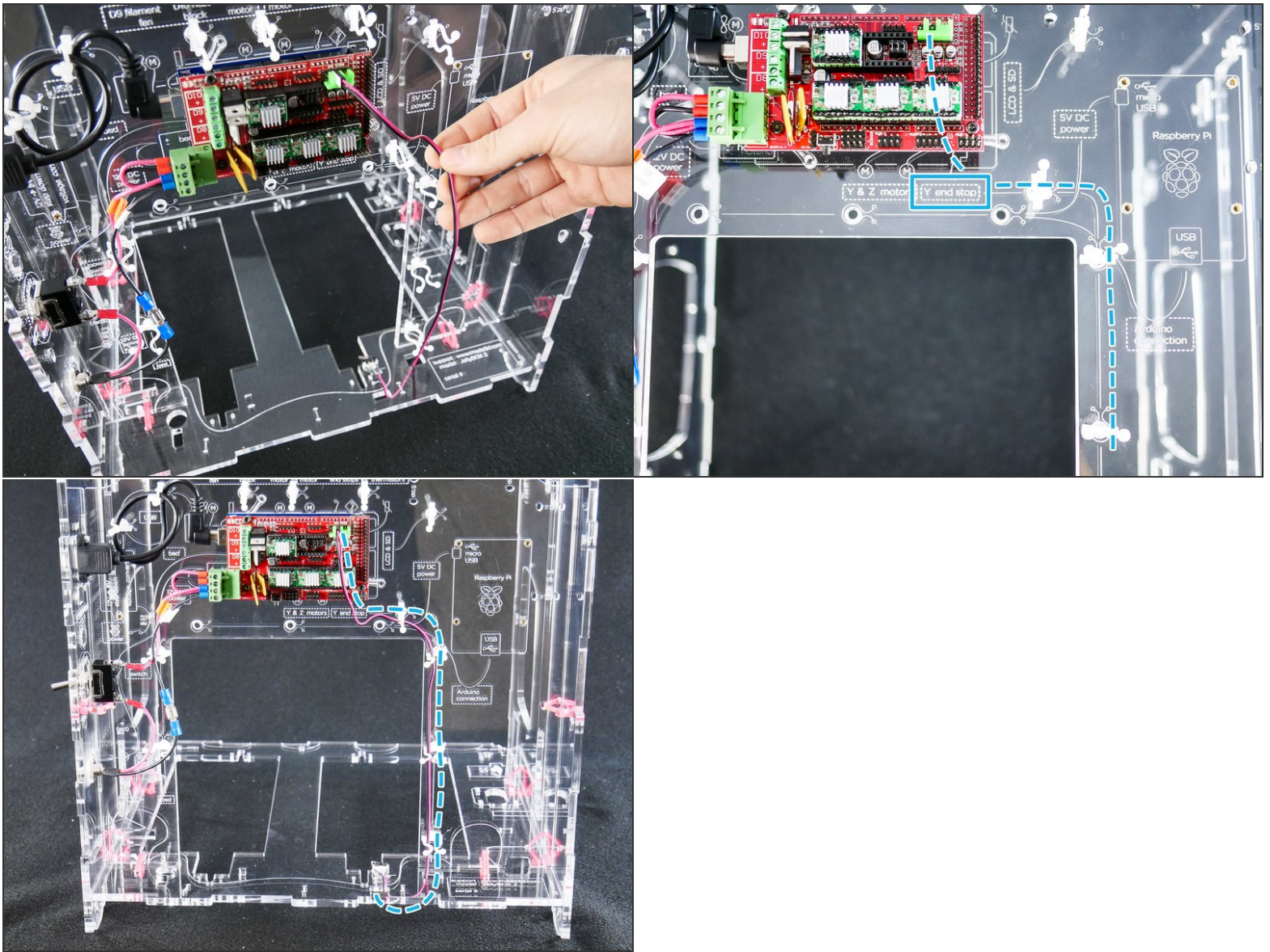
Step 9



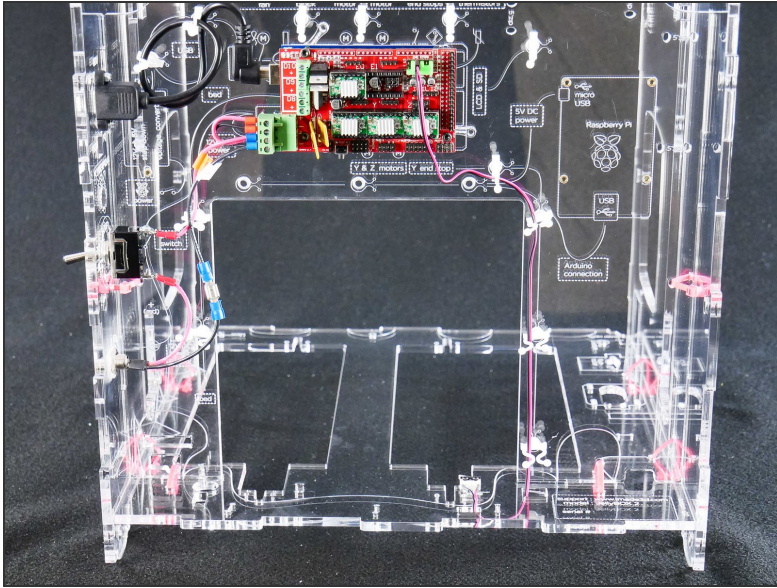
Step 10



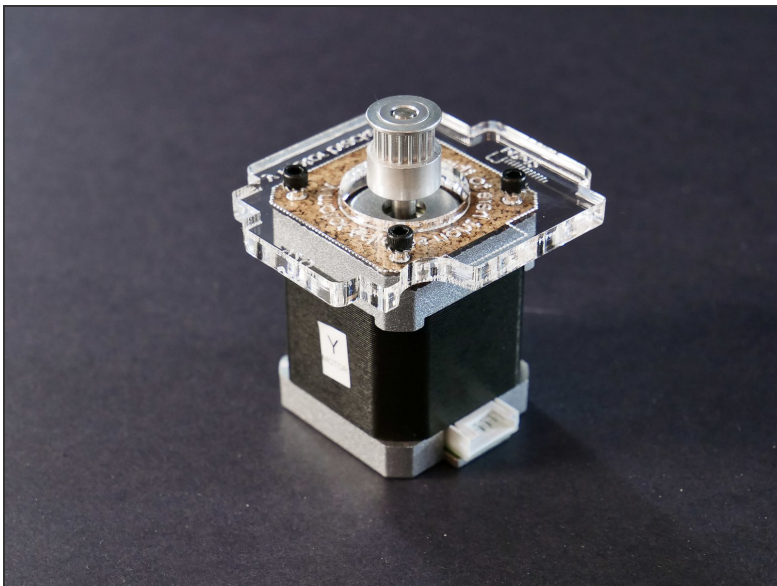
Step 11



Step 12 — Looking good!



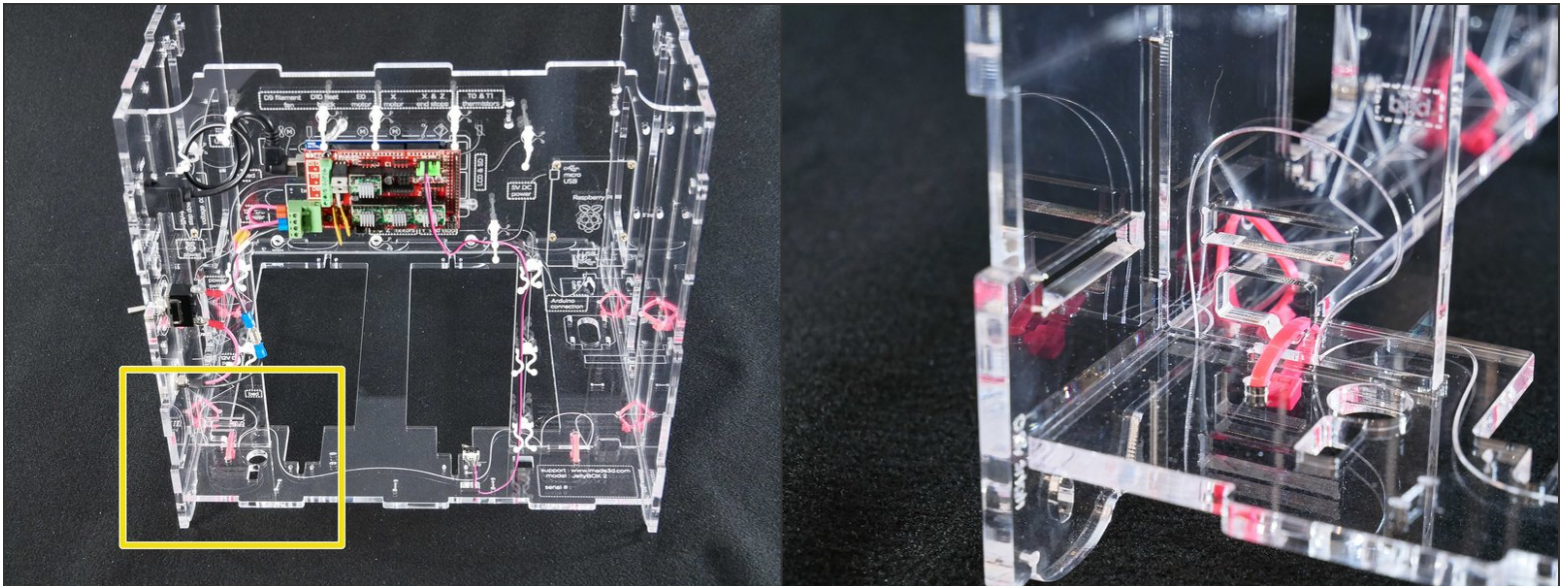
Step 13 — ↴ Insert the Y Motor Bracket



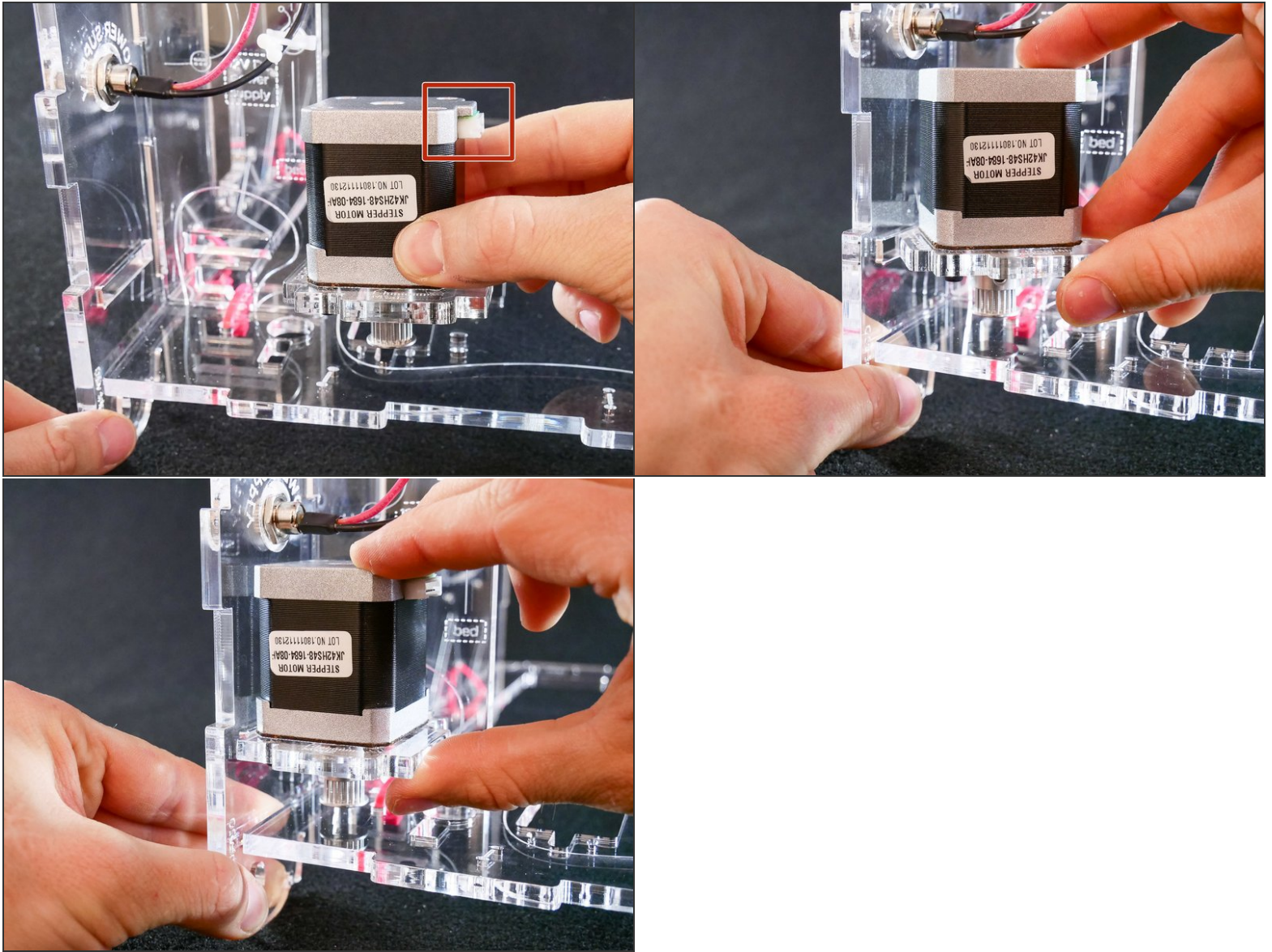
Step 14



Step 15

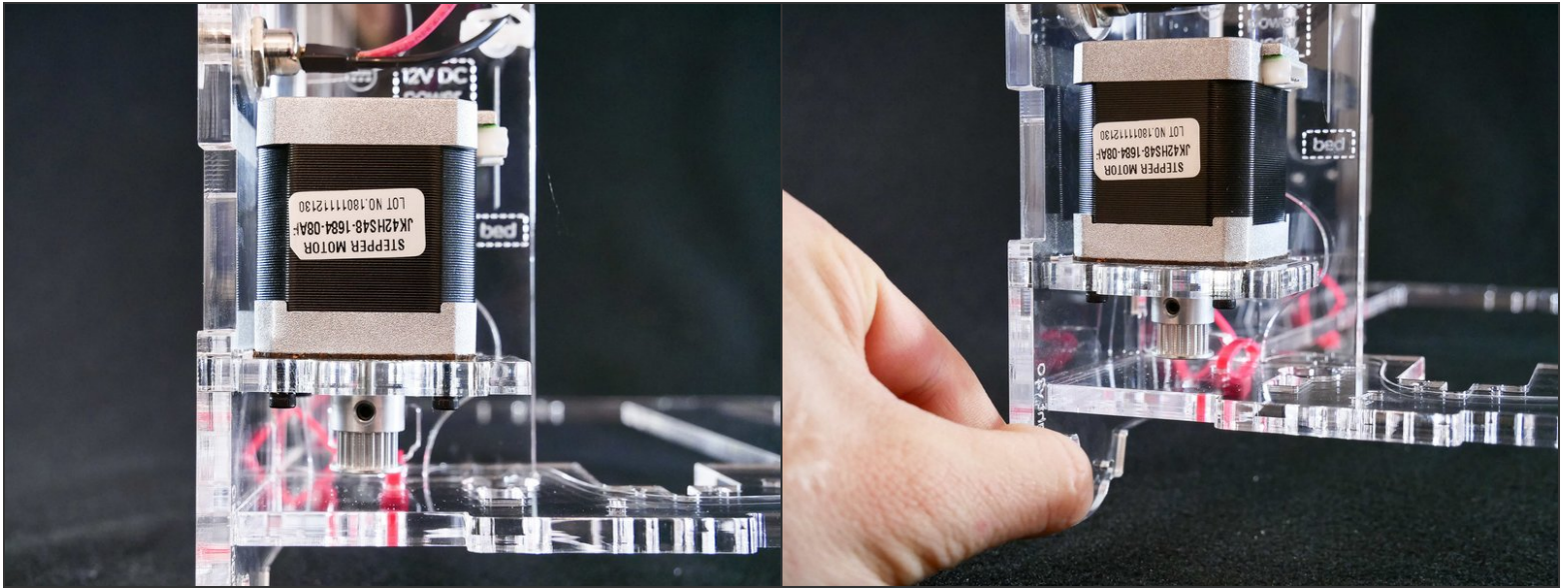


Step 16



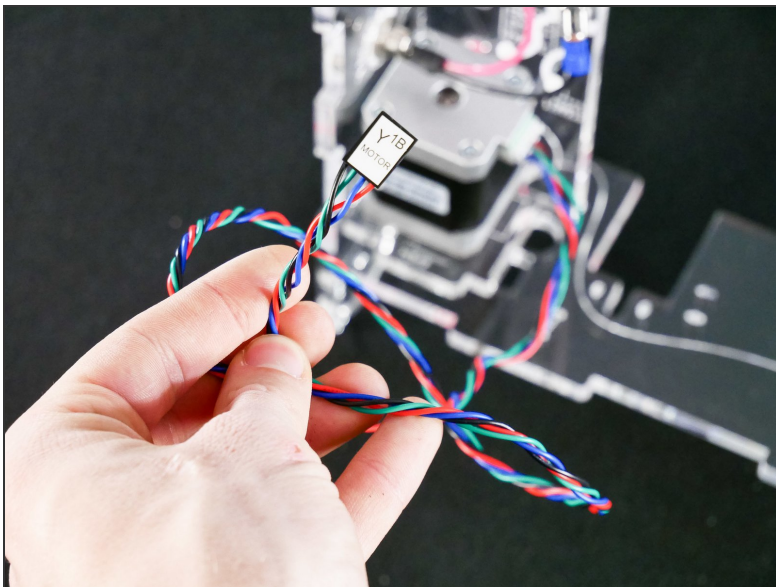
⚠ Point the motor connector towards **right**.

Step 17

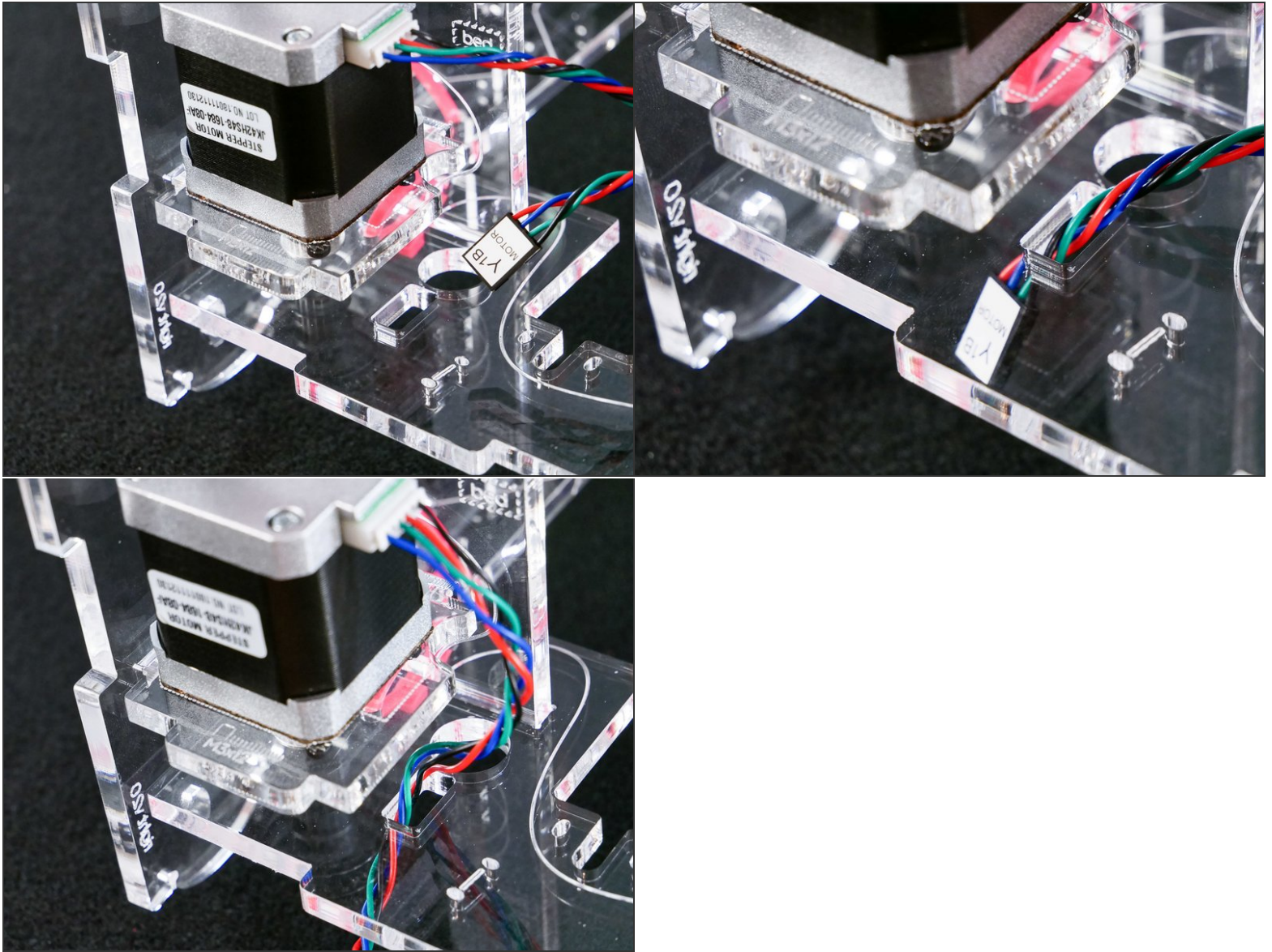


- Check ✓

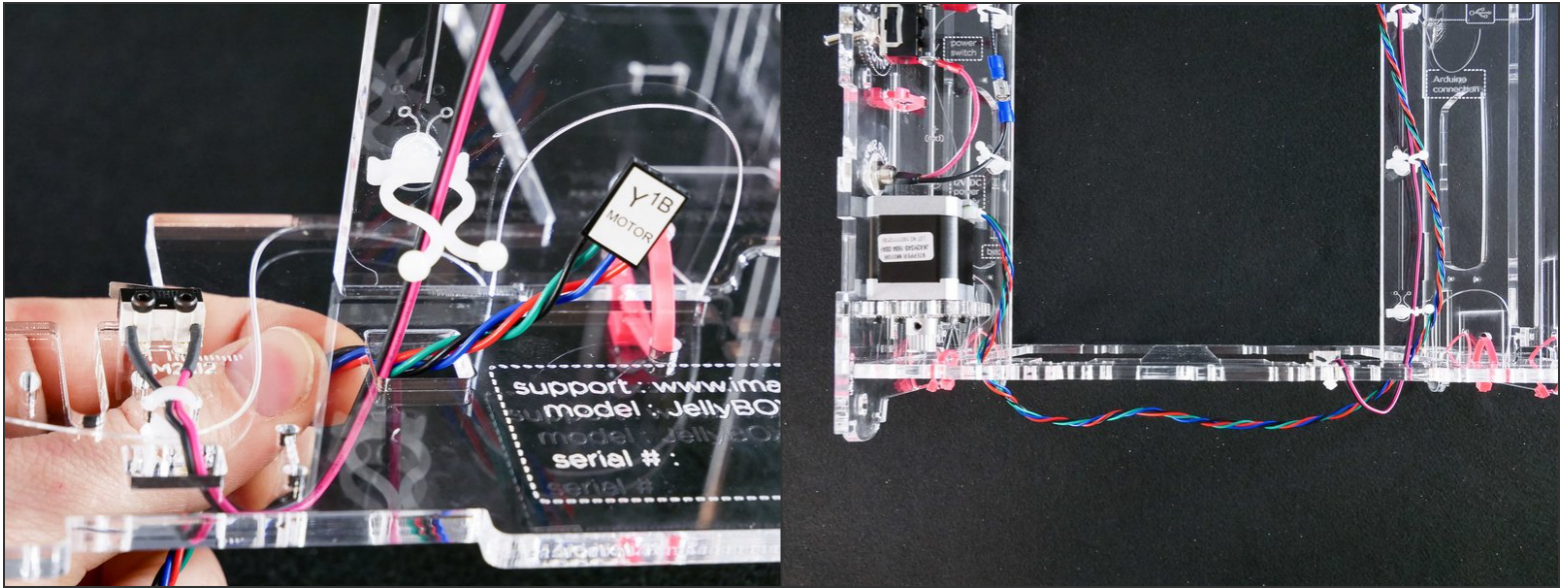
Step 18



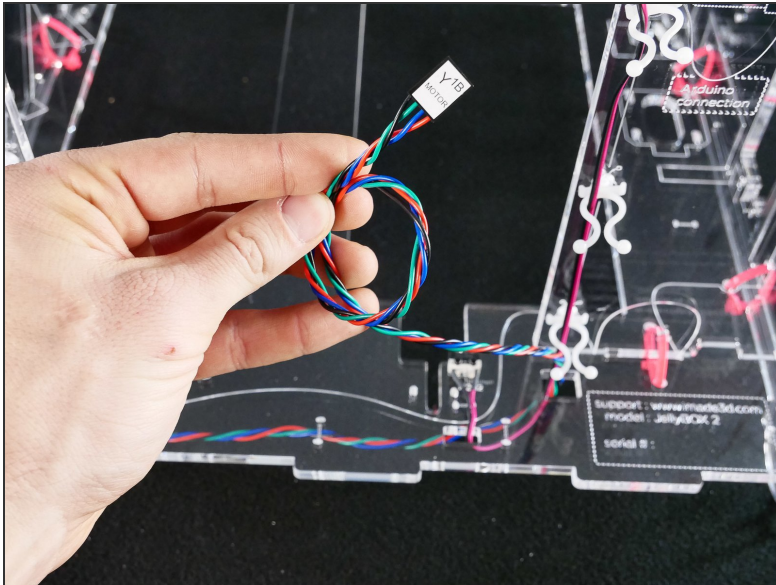
Step 19



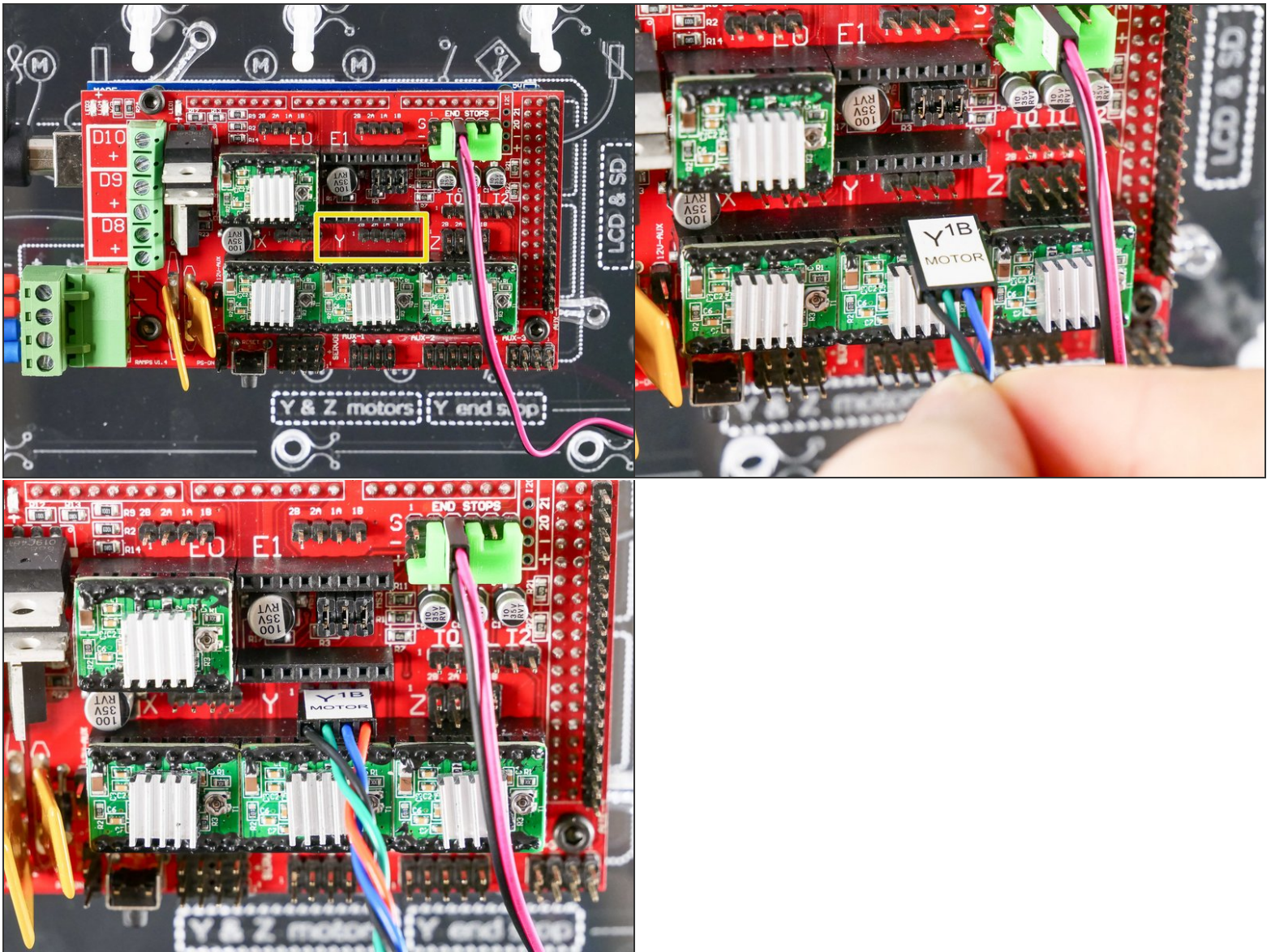
Step 20



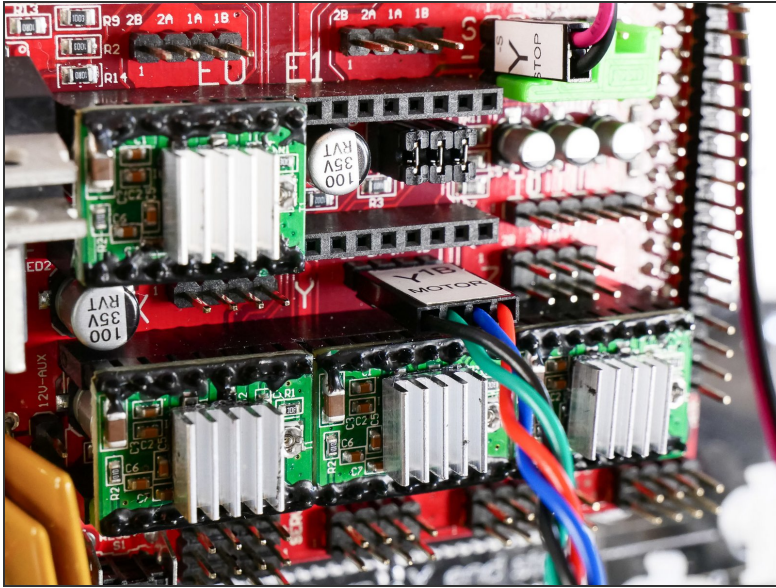
Step 21



Step 22

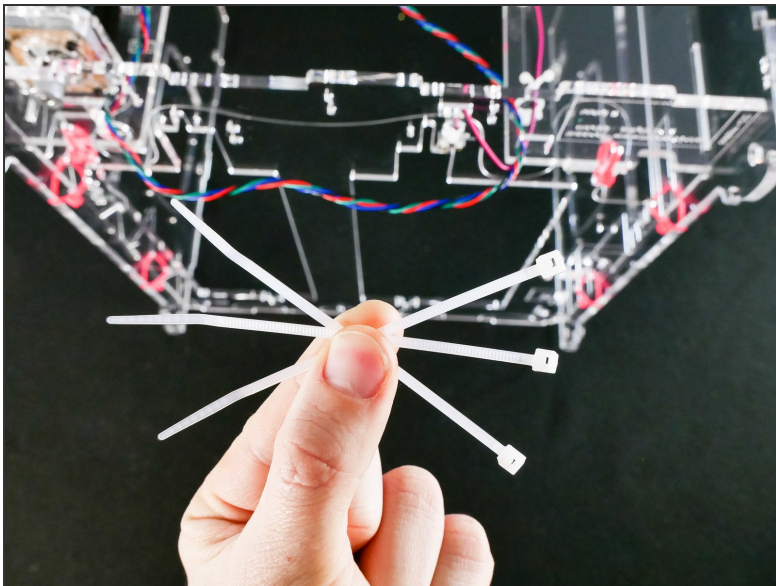


Step 23

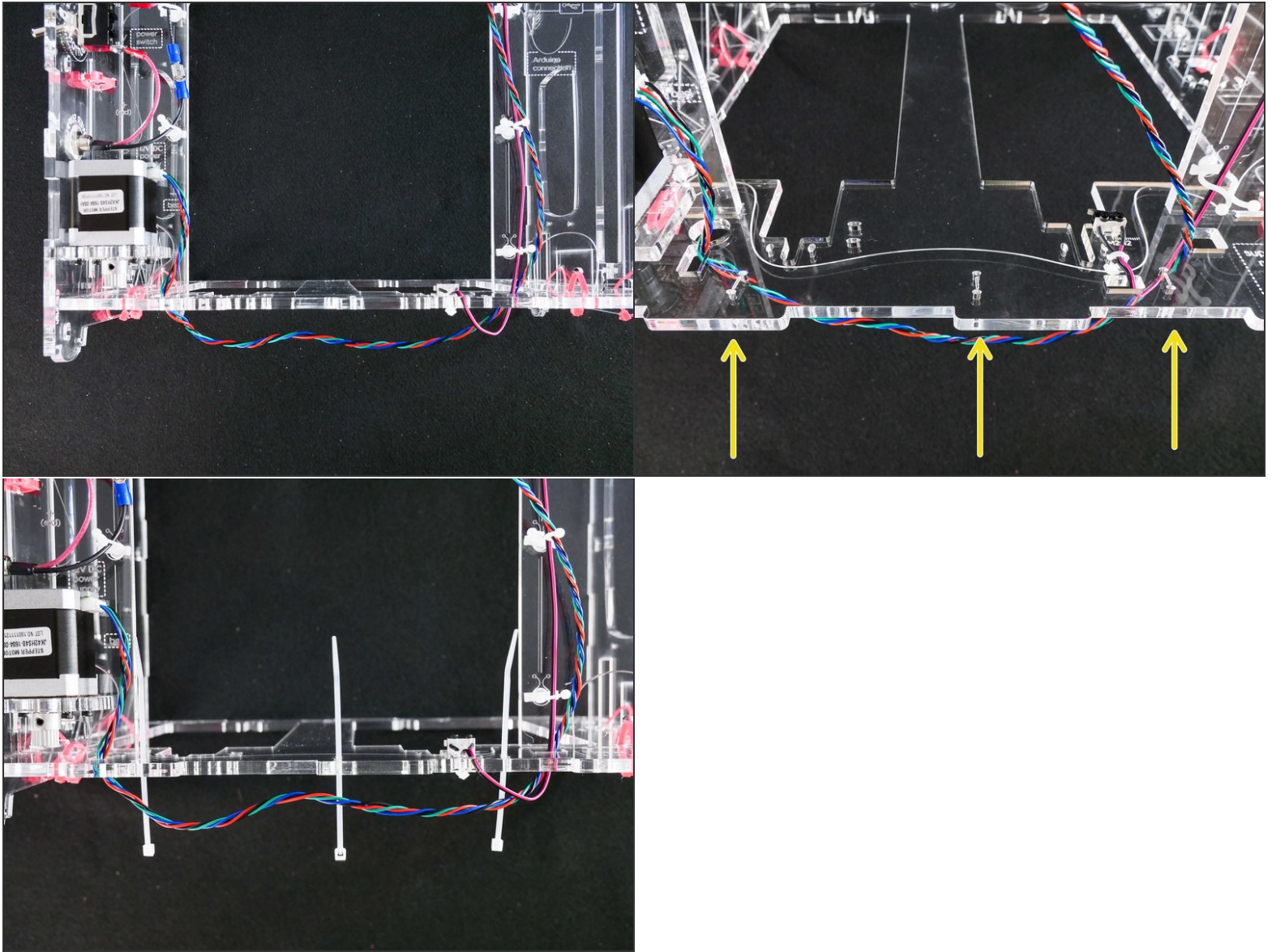


- Check ✓

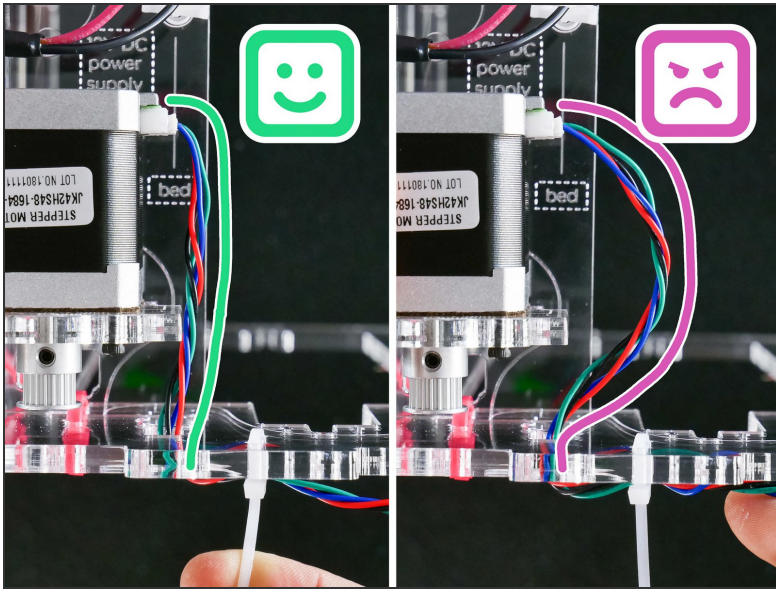
Step 24



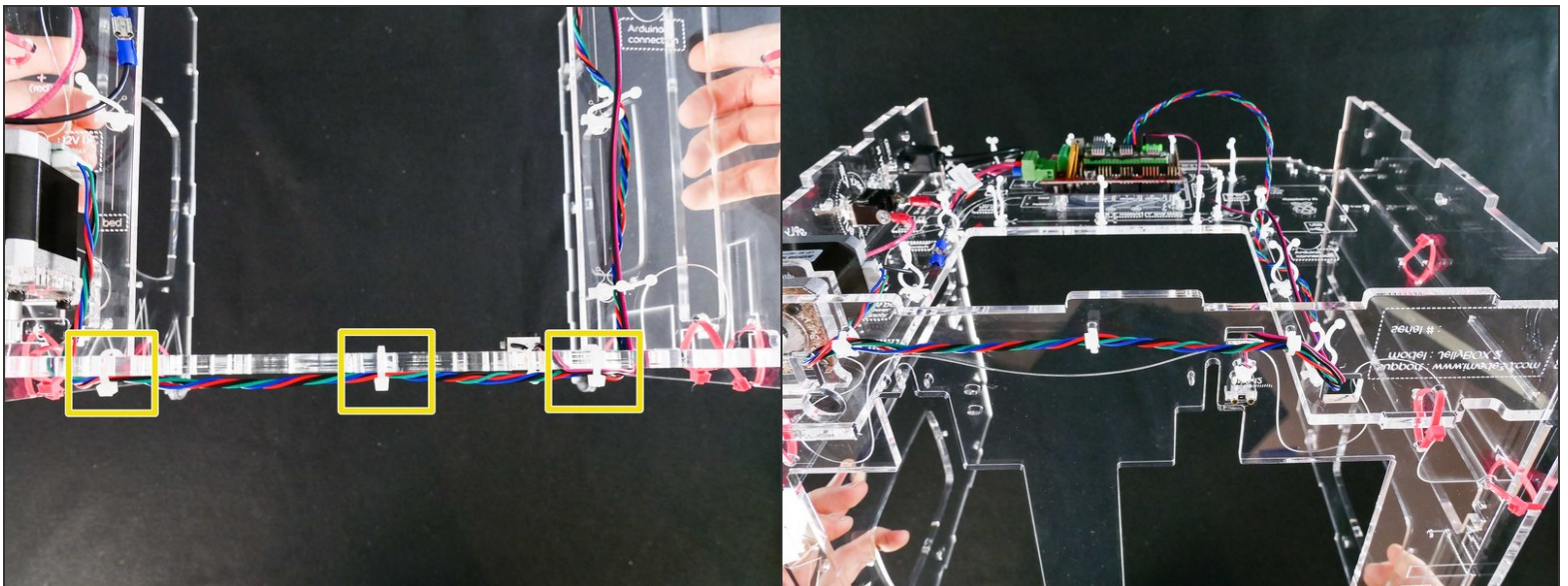
Step 25



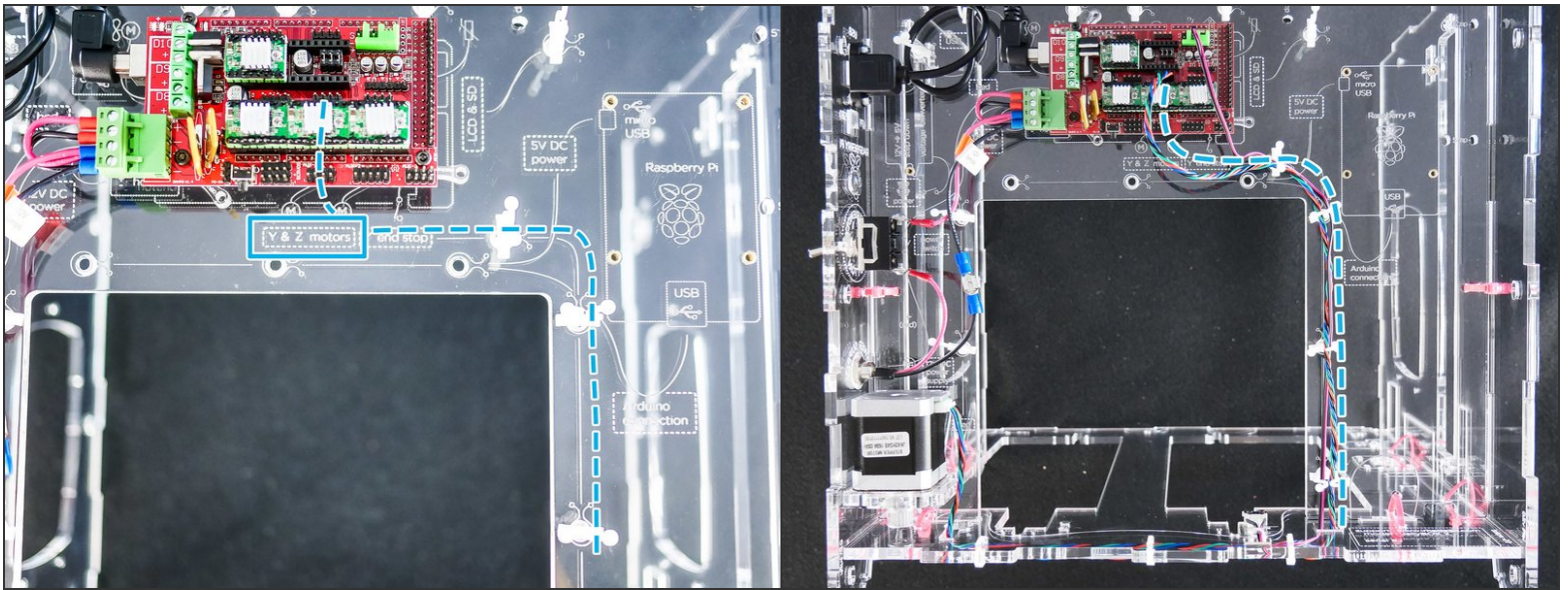
Step 26



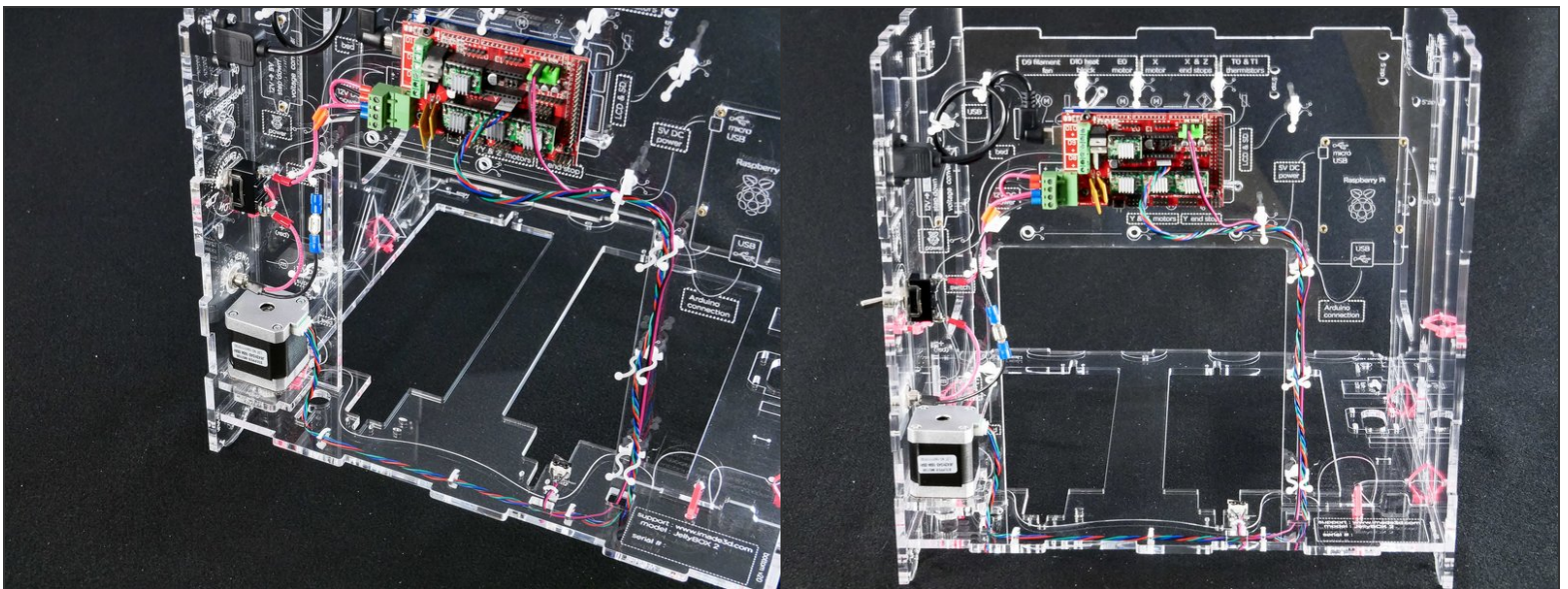
Step 27



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



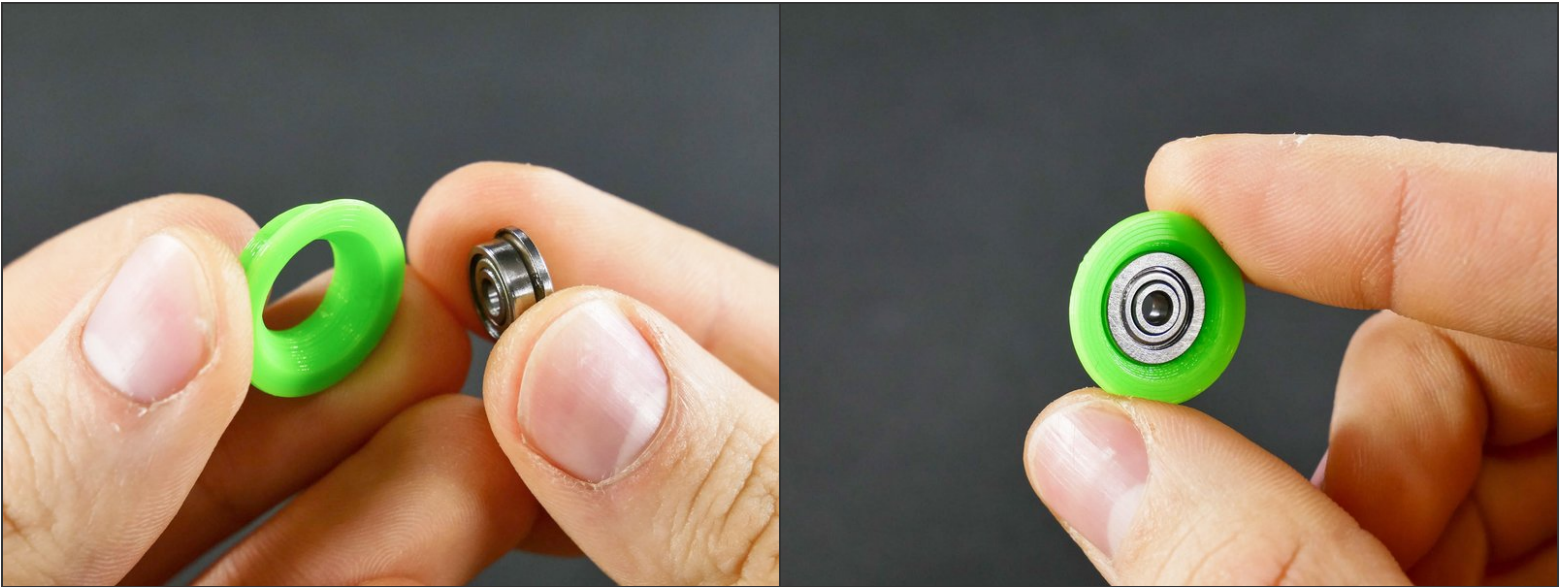
electronics 'dogbone' stand-offs



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

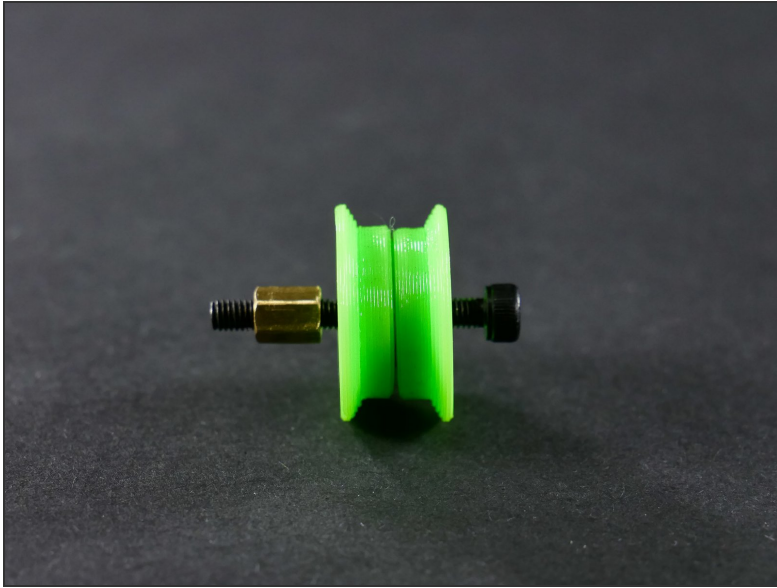
1*

1*

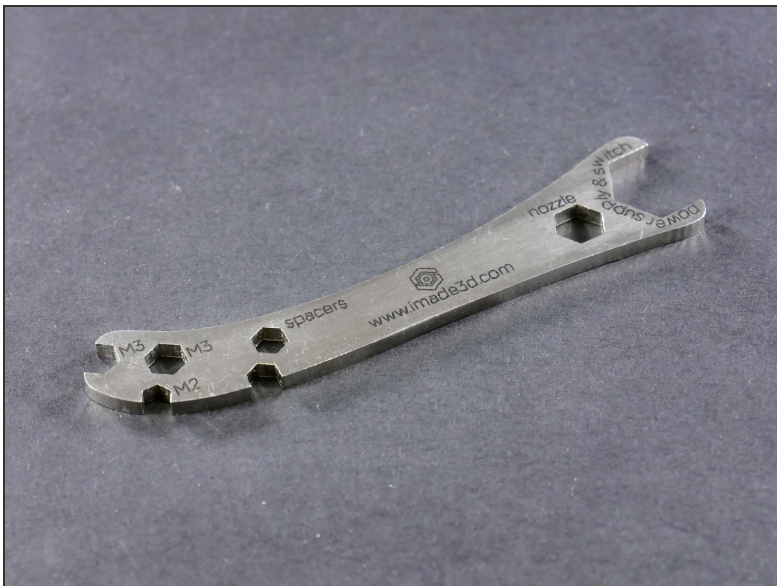
A detailed parts list diagram for Step 33. It features a grid of 20 items, each with a small icon and a text label. The items are: M3 'nylock' locking nut, M3 oversized washer, M3 serrated washer, socket head screw M2x12 12mm, M3 plastite screw, flat head screw M3x8 8mm, flat head screw M3x25 25mm, flat 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, and spare parts. Two items are highlighted with orange boxes and orange text: the flat head screw M3x25 25mm (labeled 1*) and the socket head screw M3x25 25mm (labeled 1*).

A photograph showing the assembly of parts for Step 33. From left to right, there is a small brass-colored nut, a green roller, another green roller, and a long black screw. The parts are arranged on a dark, textured surface.

Step 34



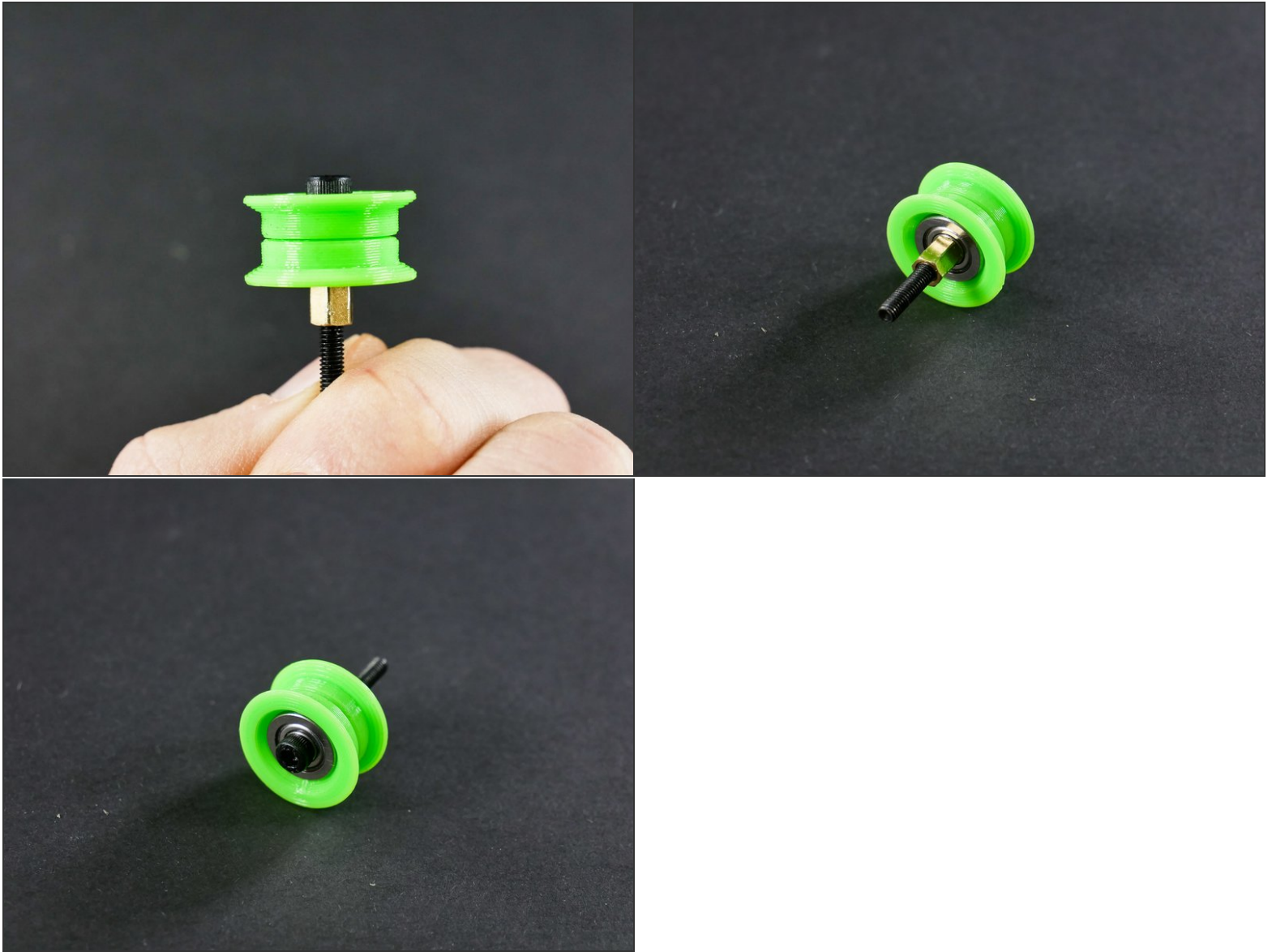
Step 35



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




2*




socket head screw M2x12




M3 plastite screw




1*




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




Y-assembly




feeder

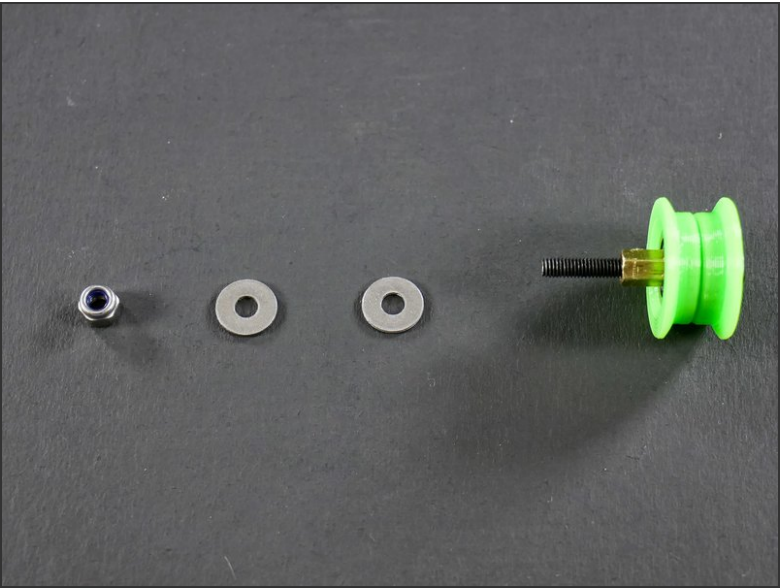


electronics 'dogbone' stand-offs



spare parts

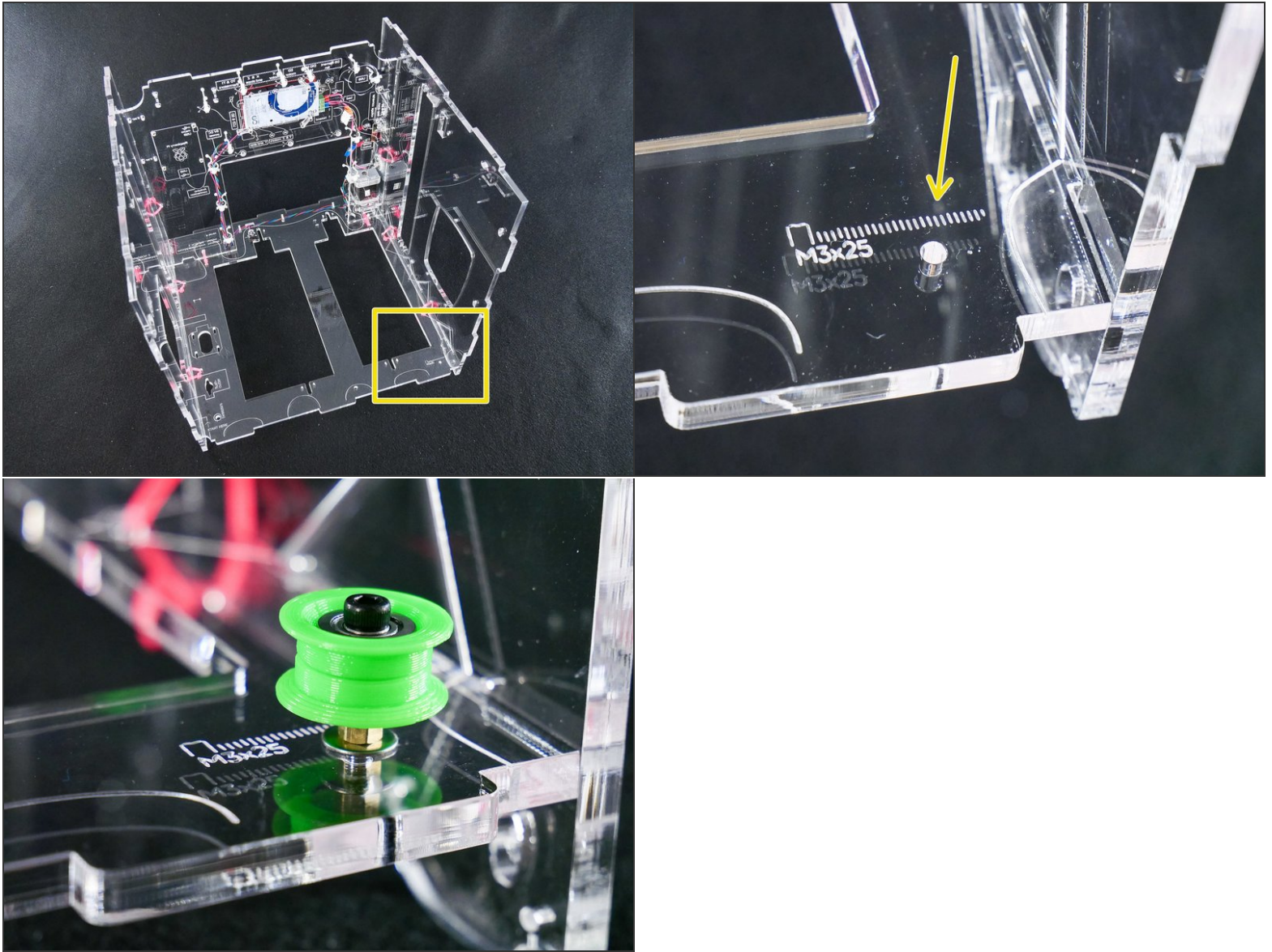




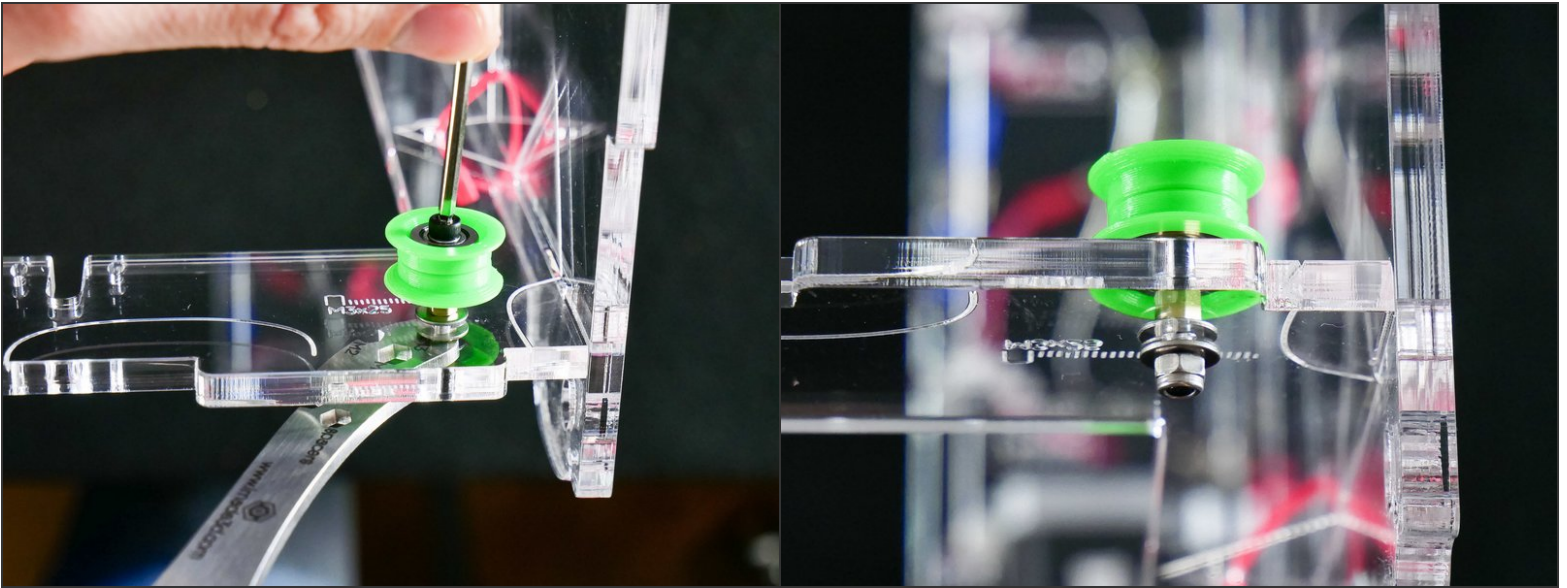
Step 39



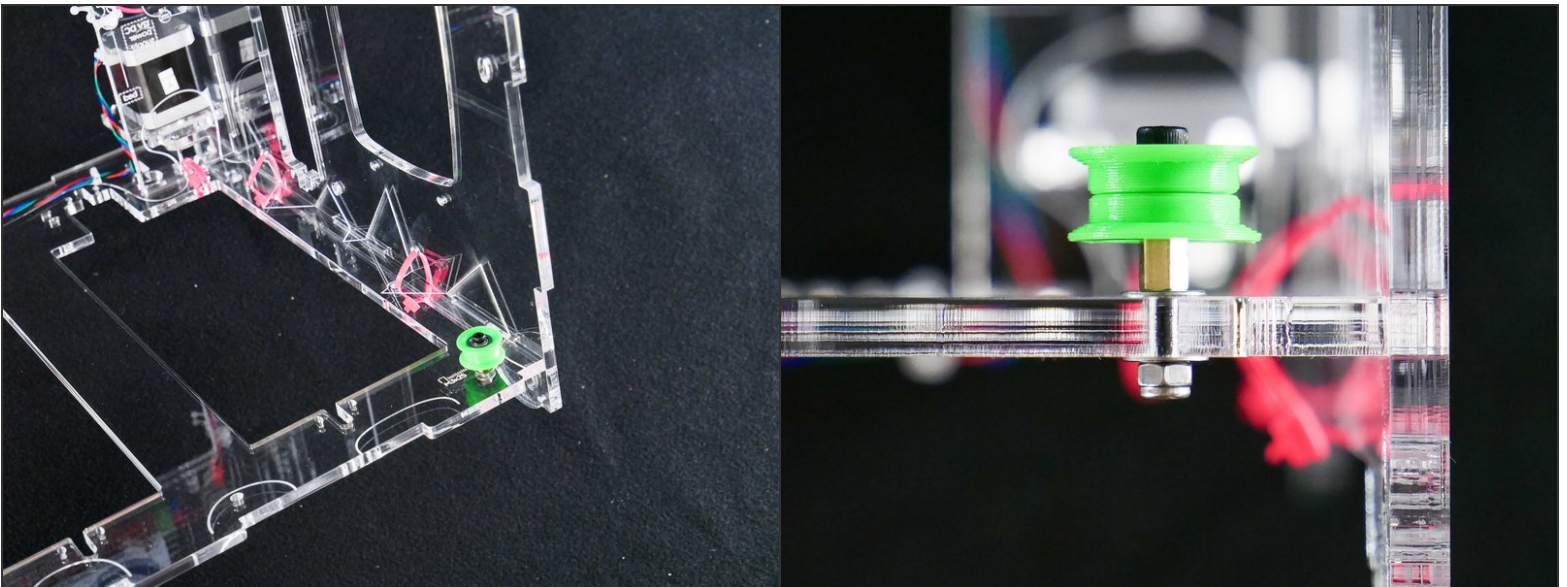
Step 40



Step 41



Step 42 — Looking good!



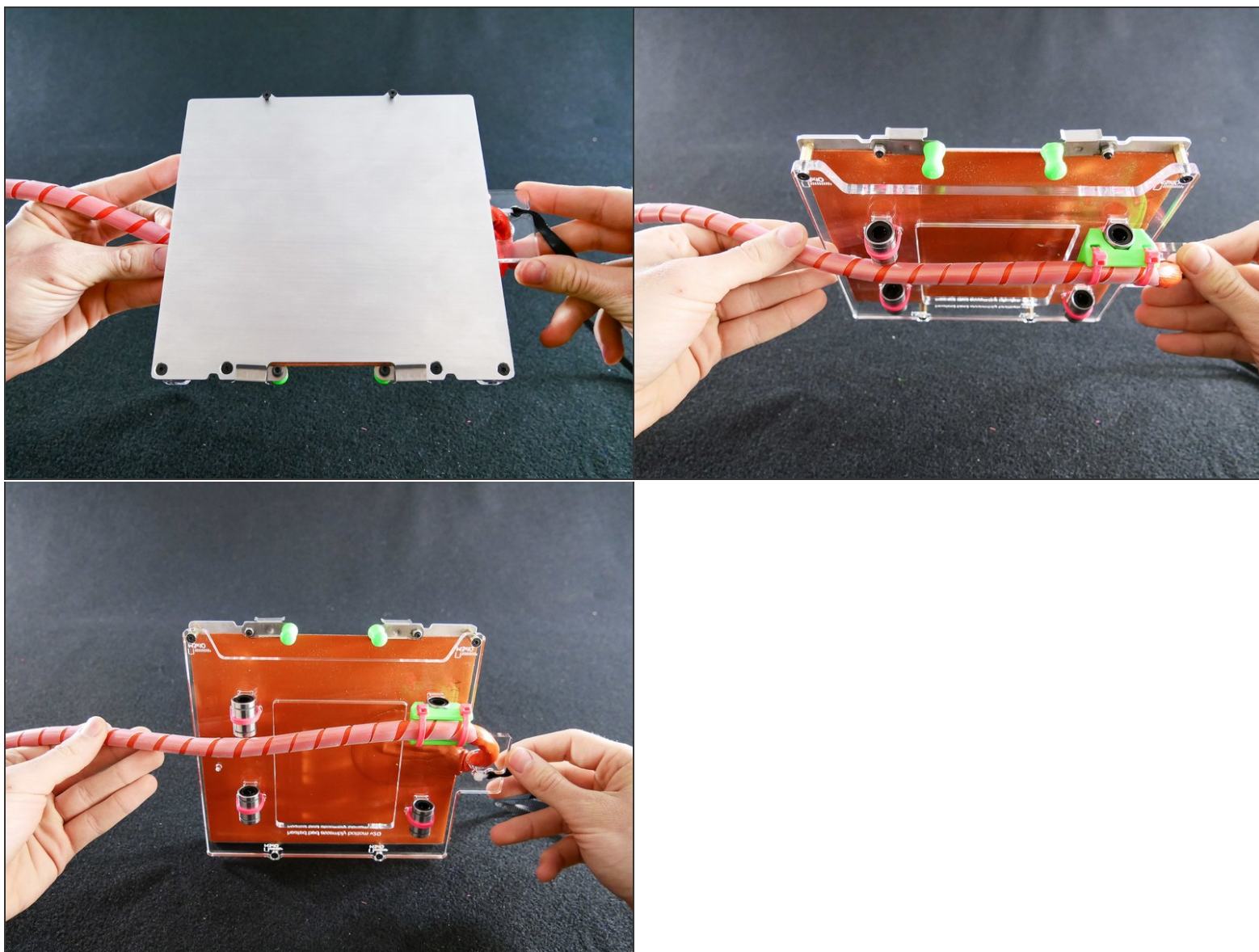
Step 43 — ↳ Insert the Heated Y Assembly



Step 44



Step 45

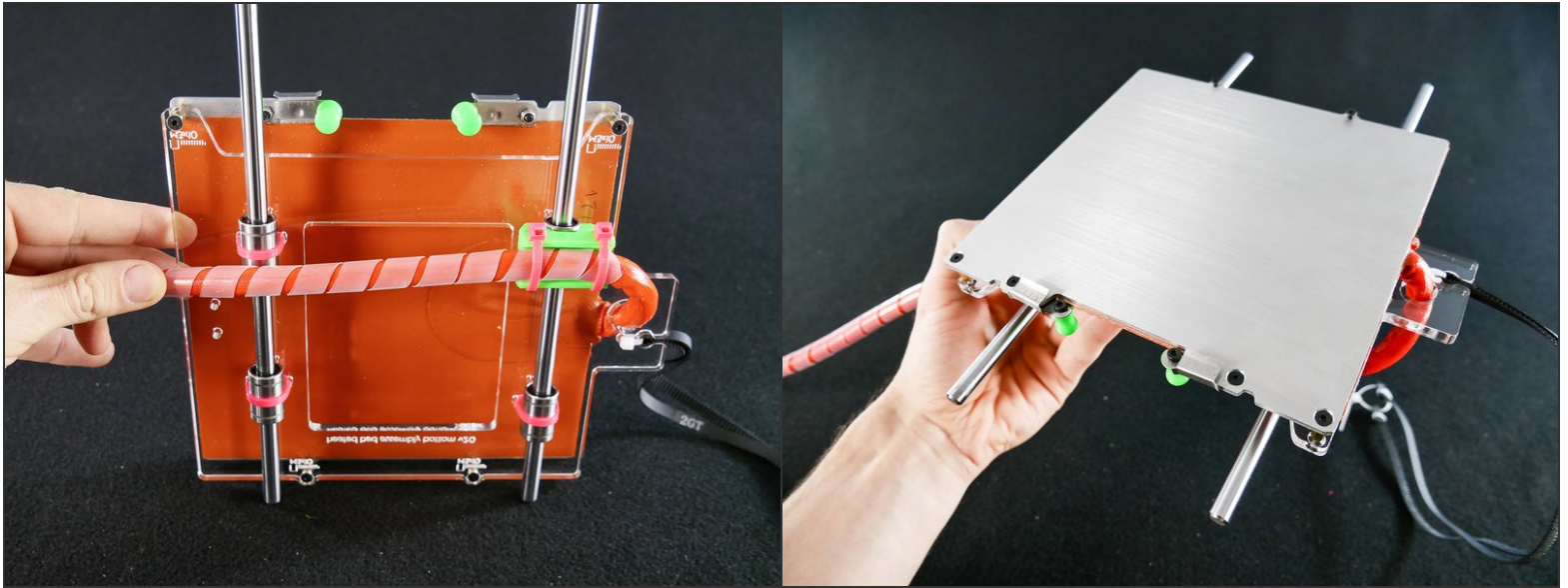


Step 46



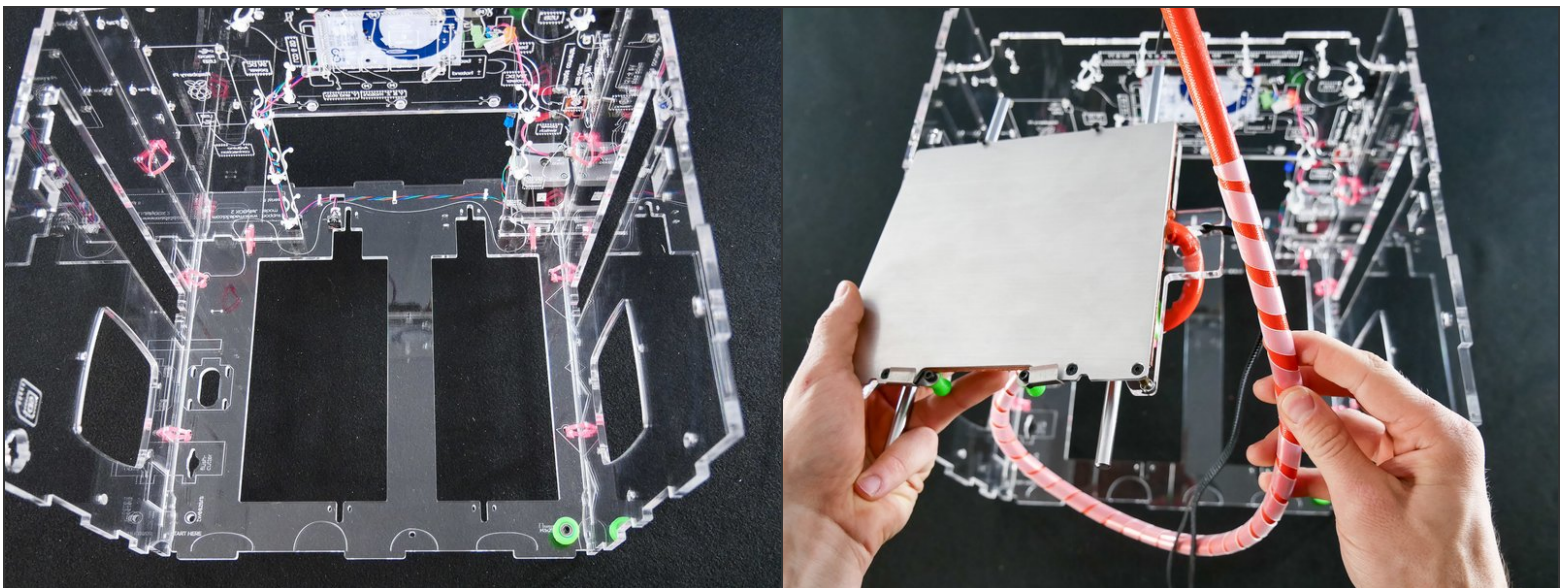
⚠ Be gentle. Do no force the rods and keep them straight or *you may damage the ball bearing by knocking some balls out.*

Step 47

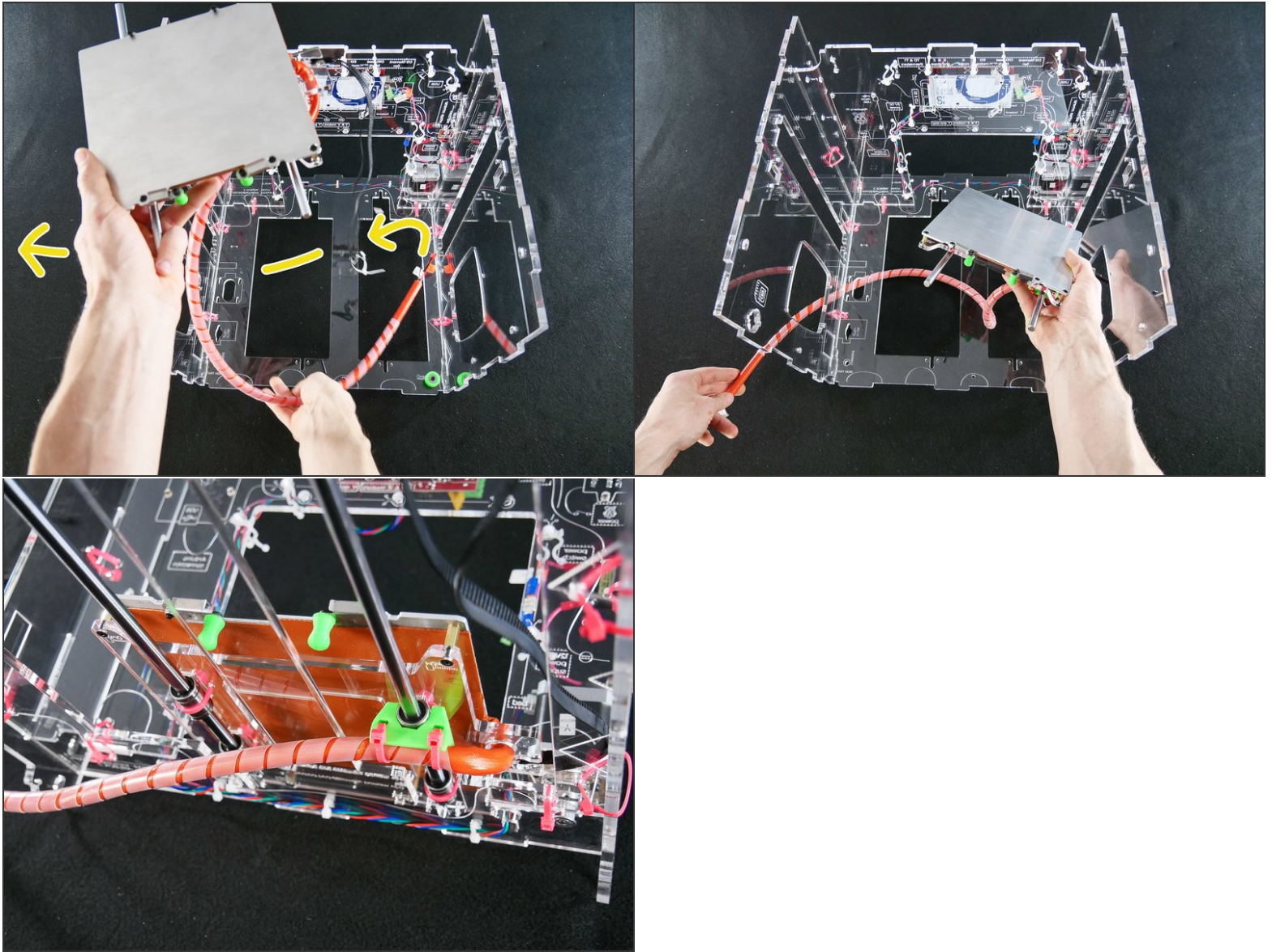


● Check ✓

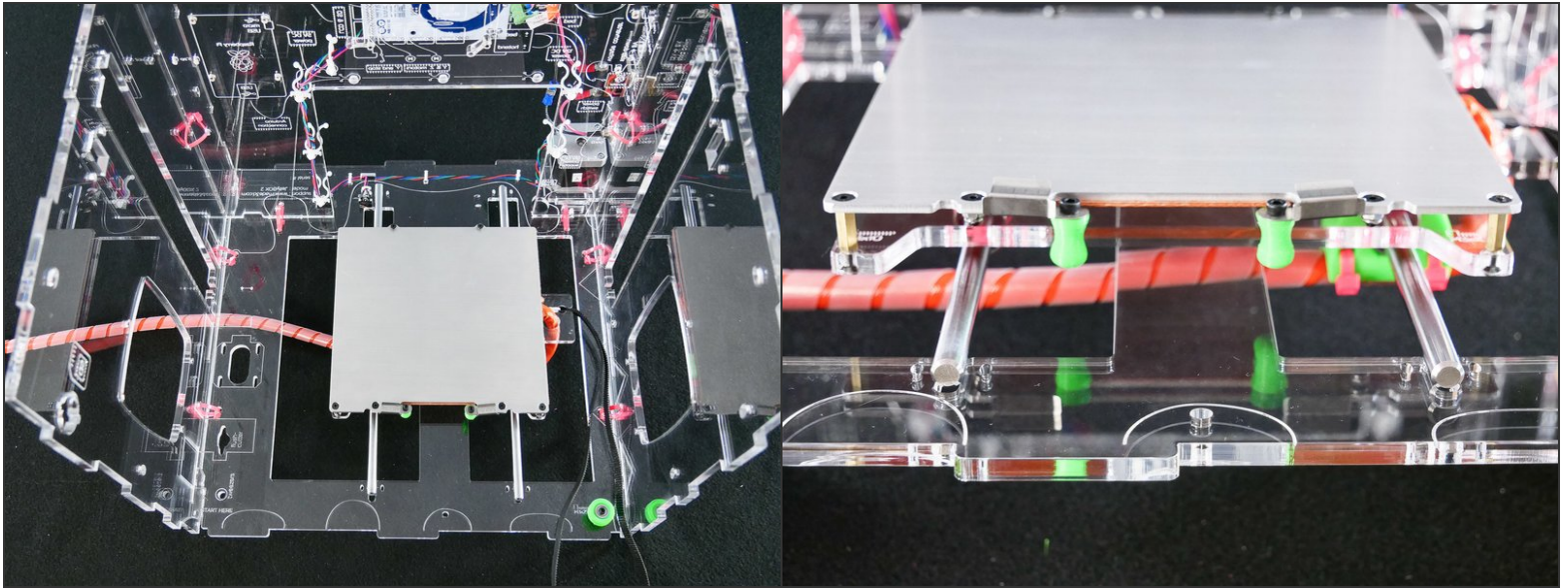
Step 48



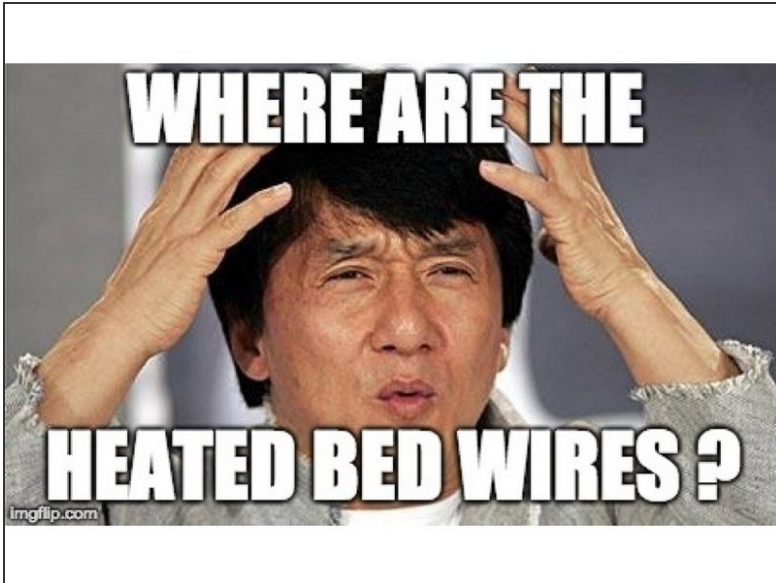
Step 49



Step 50

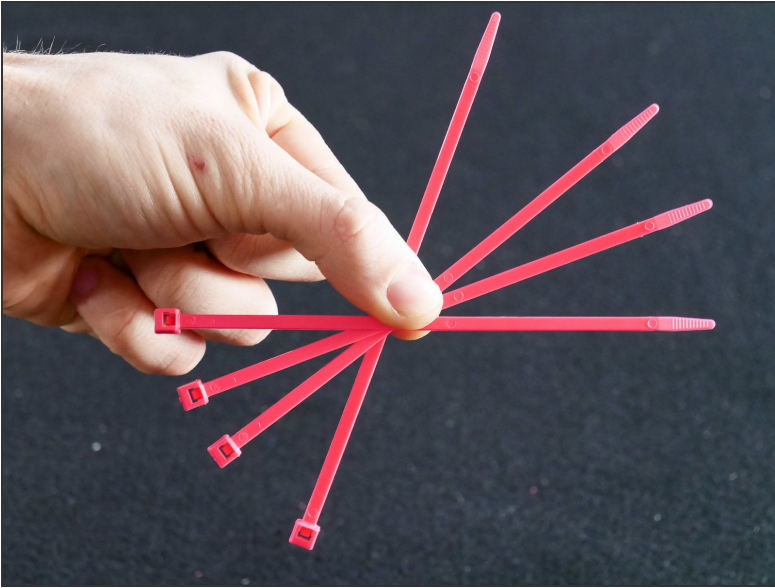


Step 51

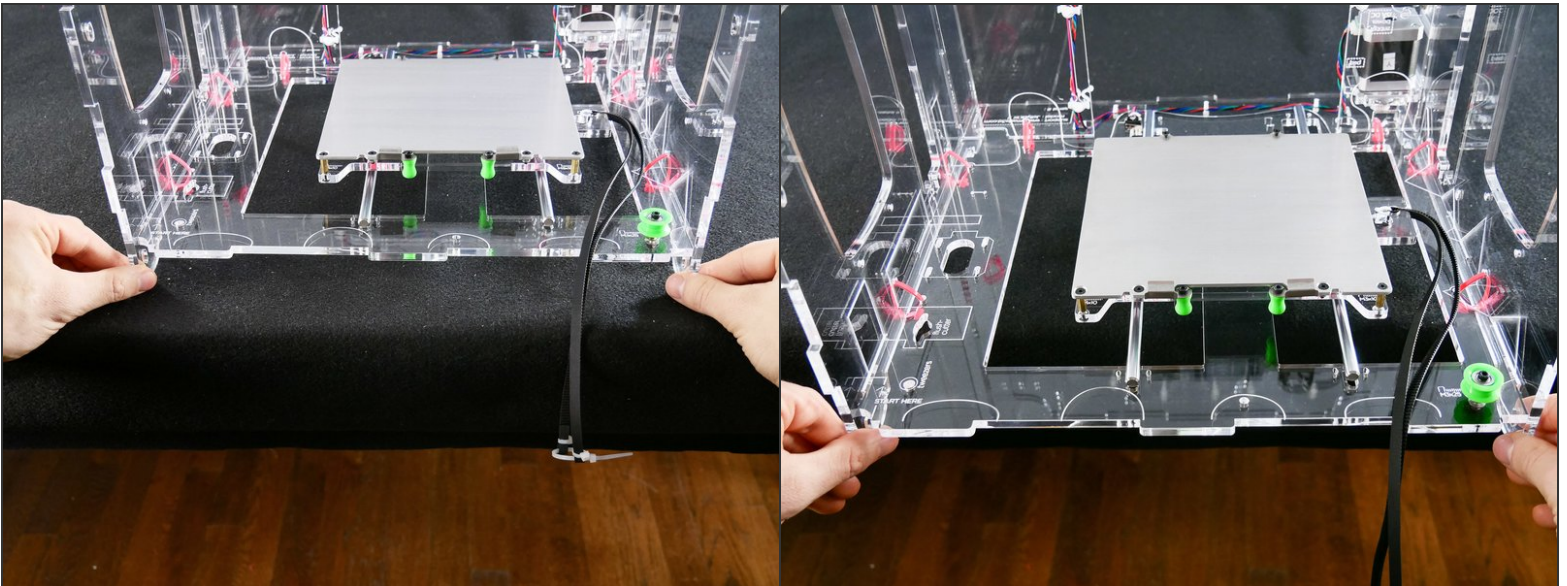


! The photos until the end of the guide mostly feature *cold bed*. This means you will often not see the bed wires. Don't worry. Any time the **heated bed** instructions differ, it will be noted.

Step 52

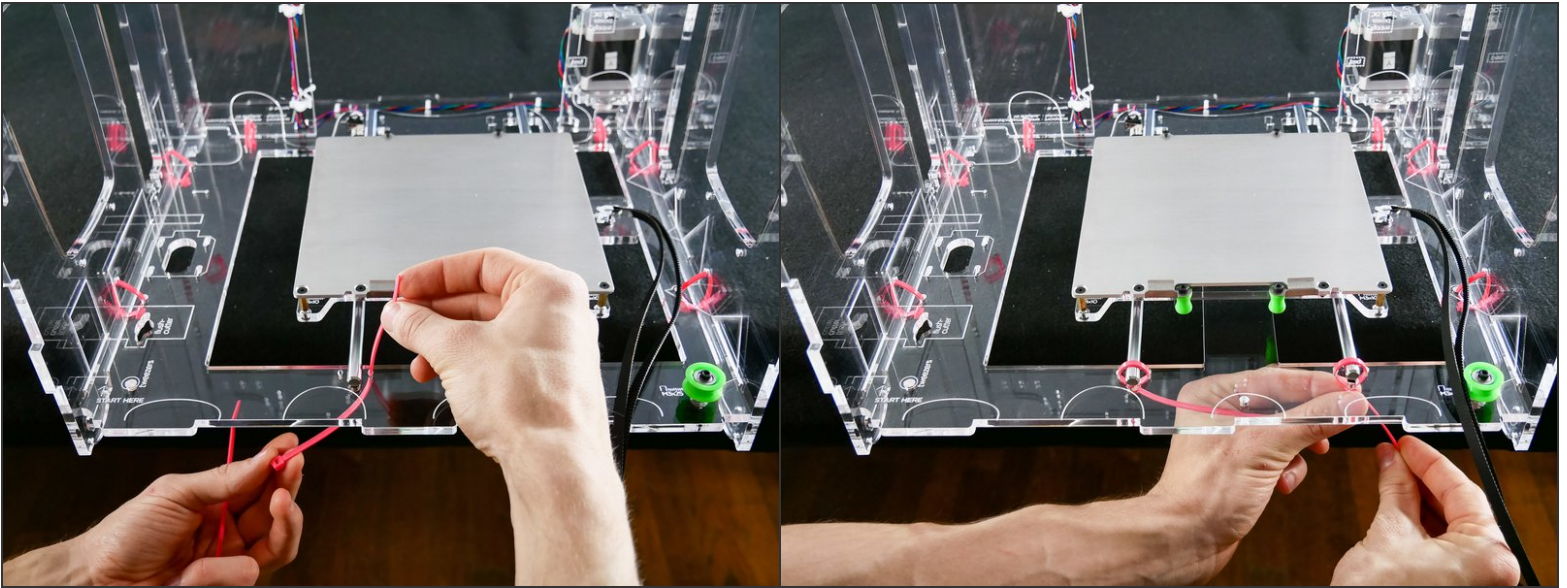


Step 53

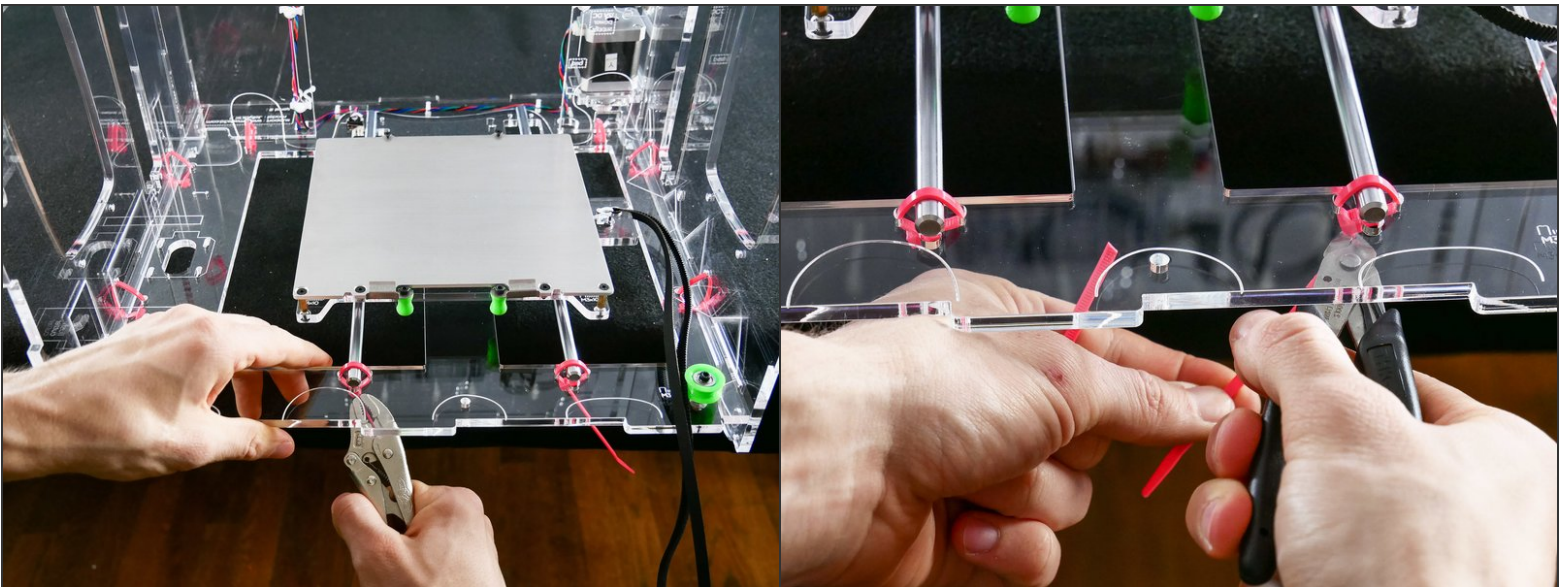


- Place your JellyBOX over the edge of a table.

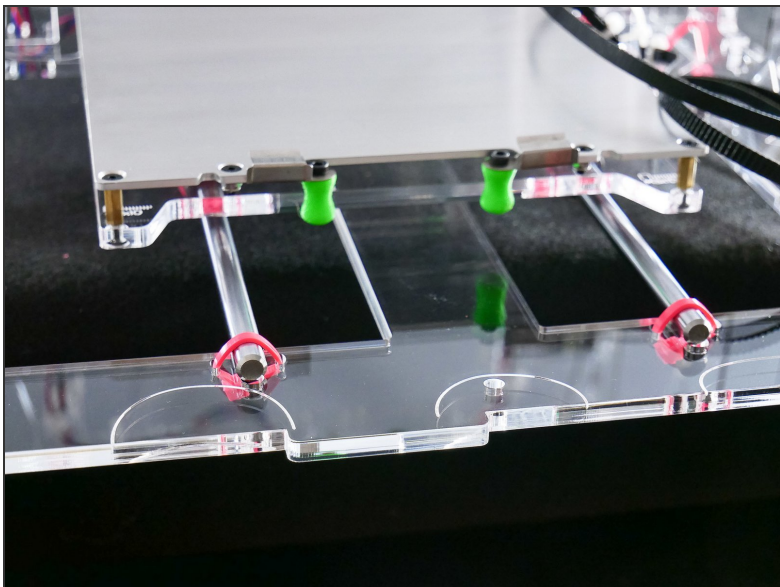
Step 54



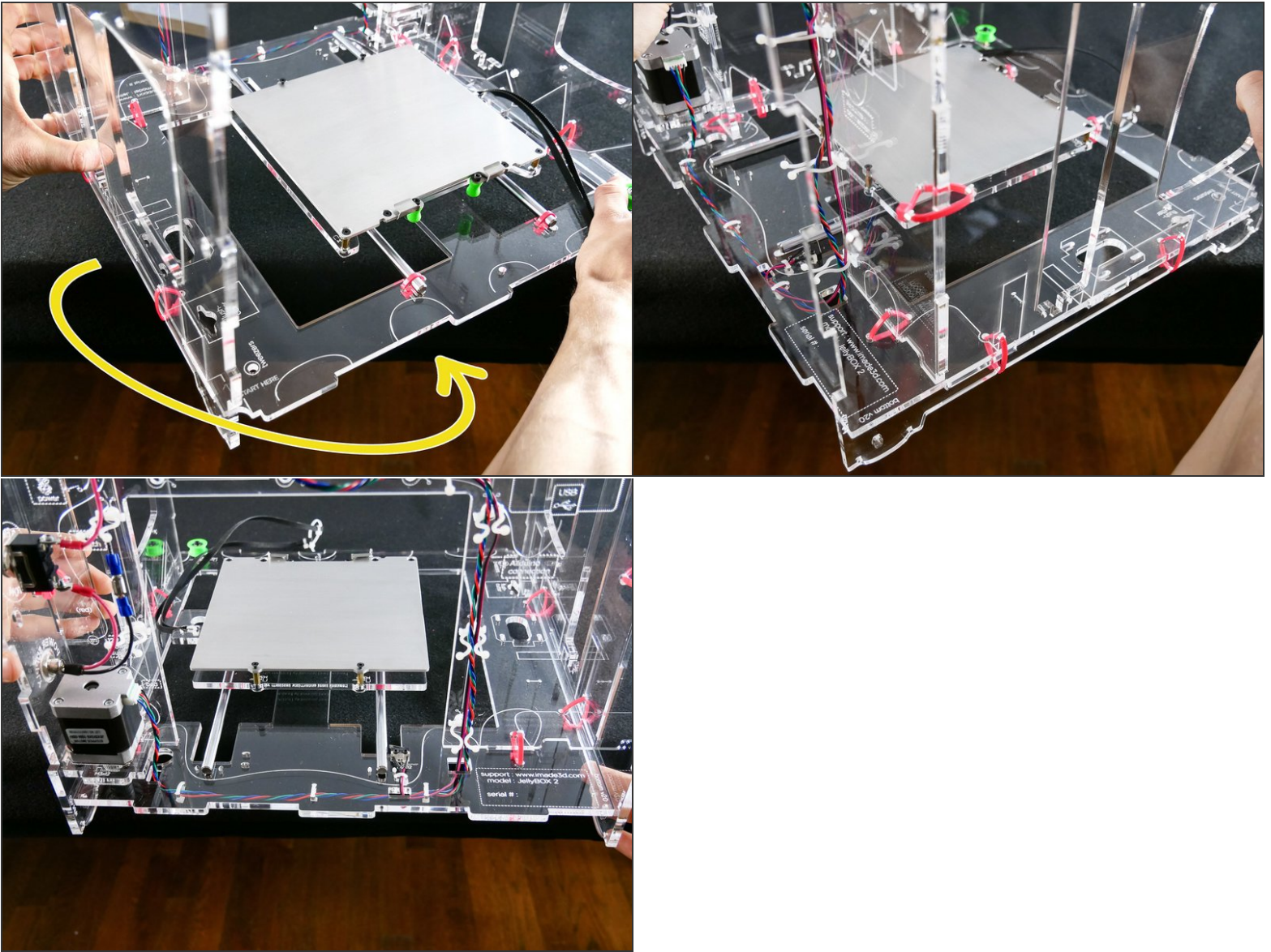
Step 55



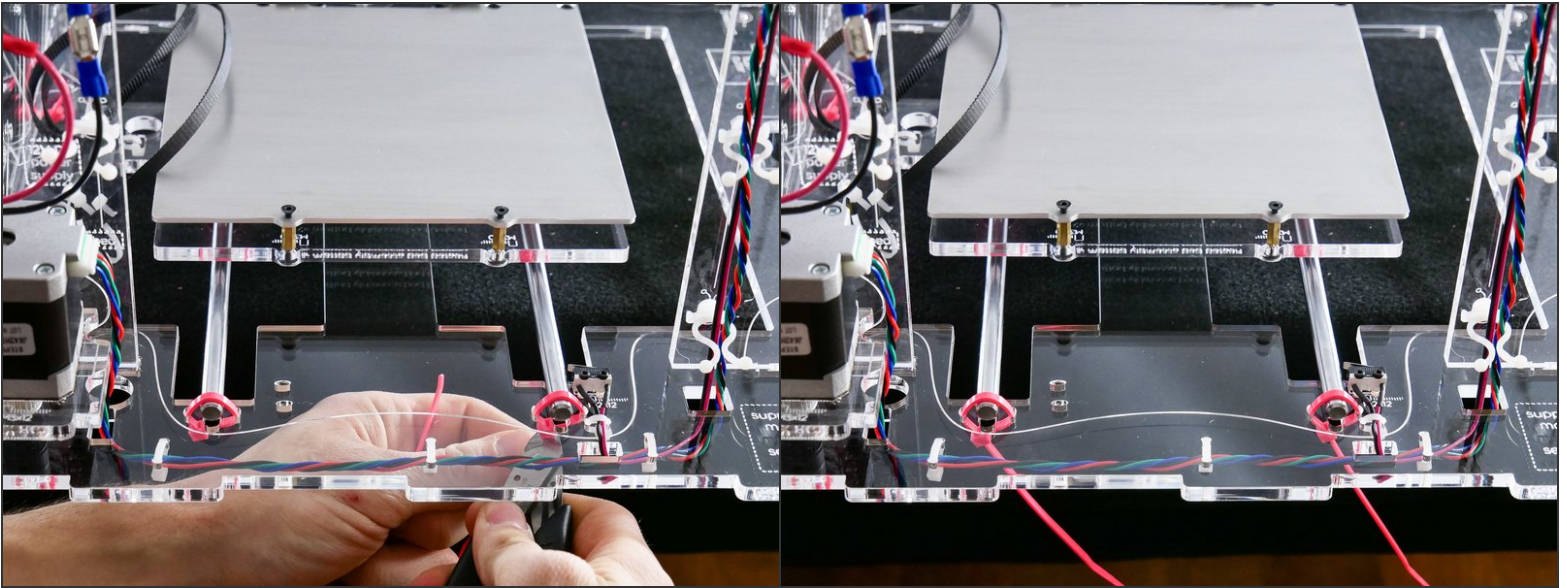
Step 56



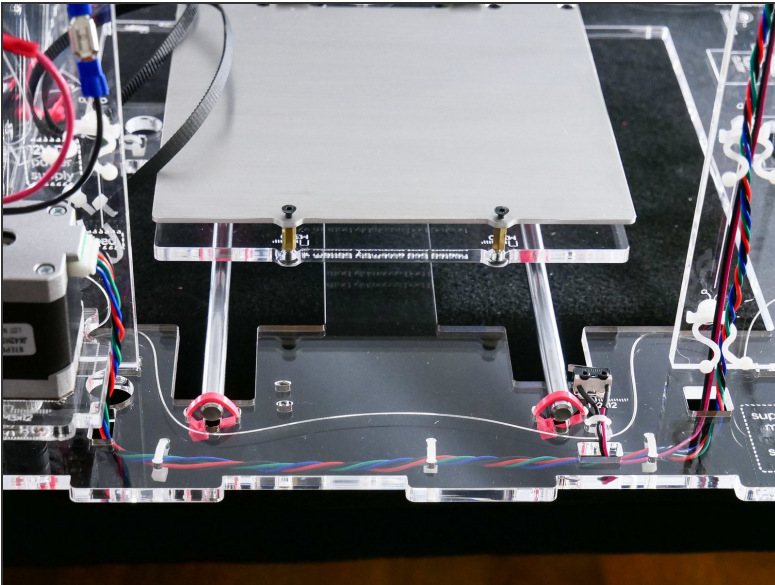
Step 57

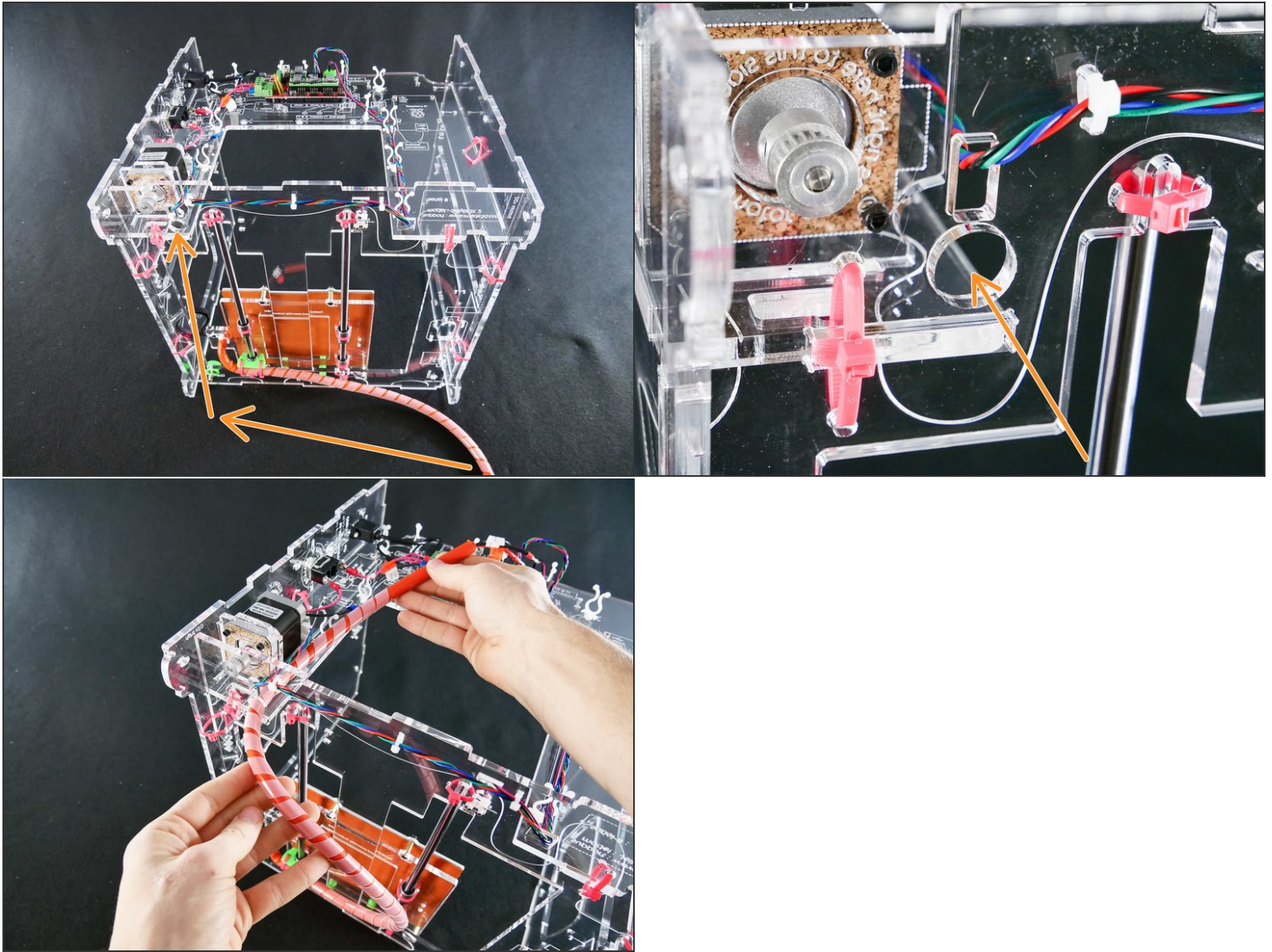


Step 58

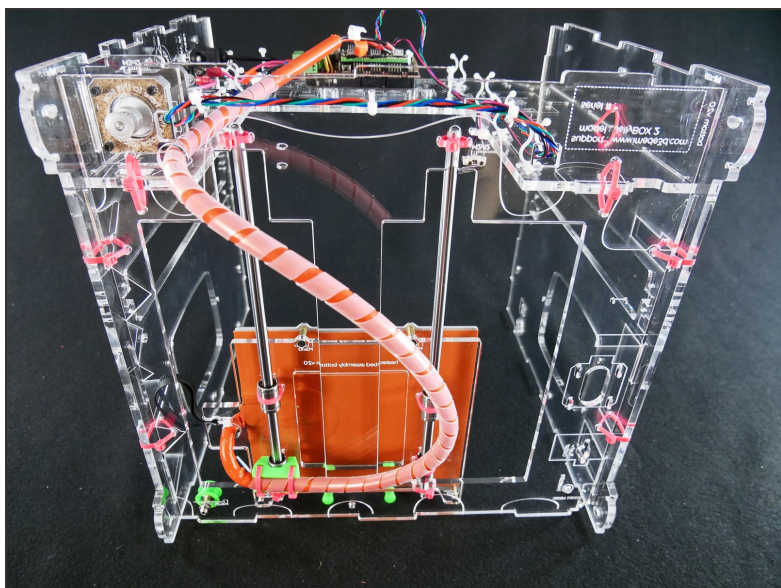


Step 59 — Looking good!



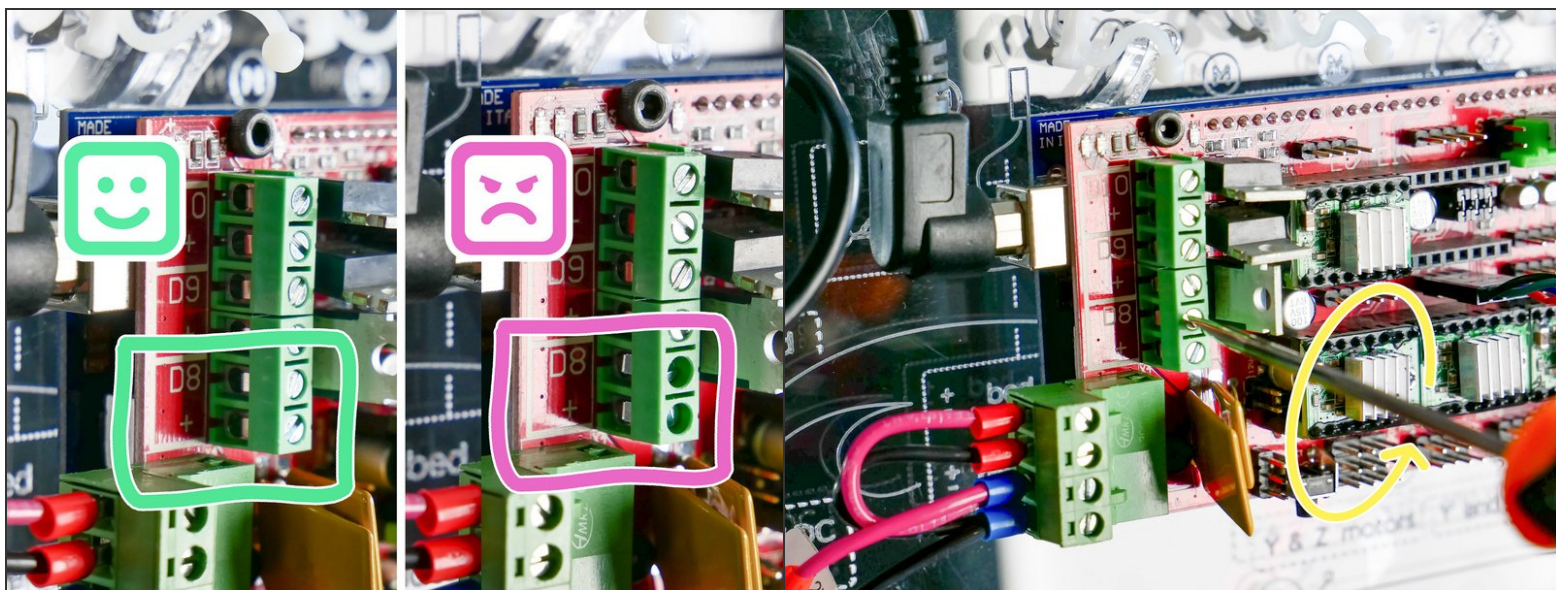
Step 60 — ↳ Wire up the Heated Y Assembly

Step 61



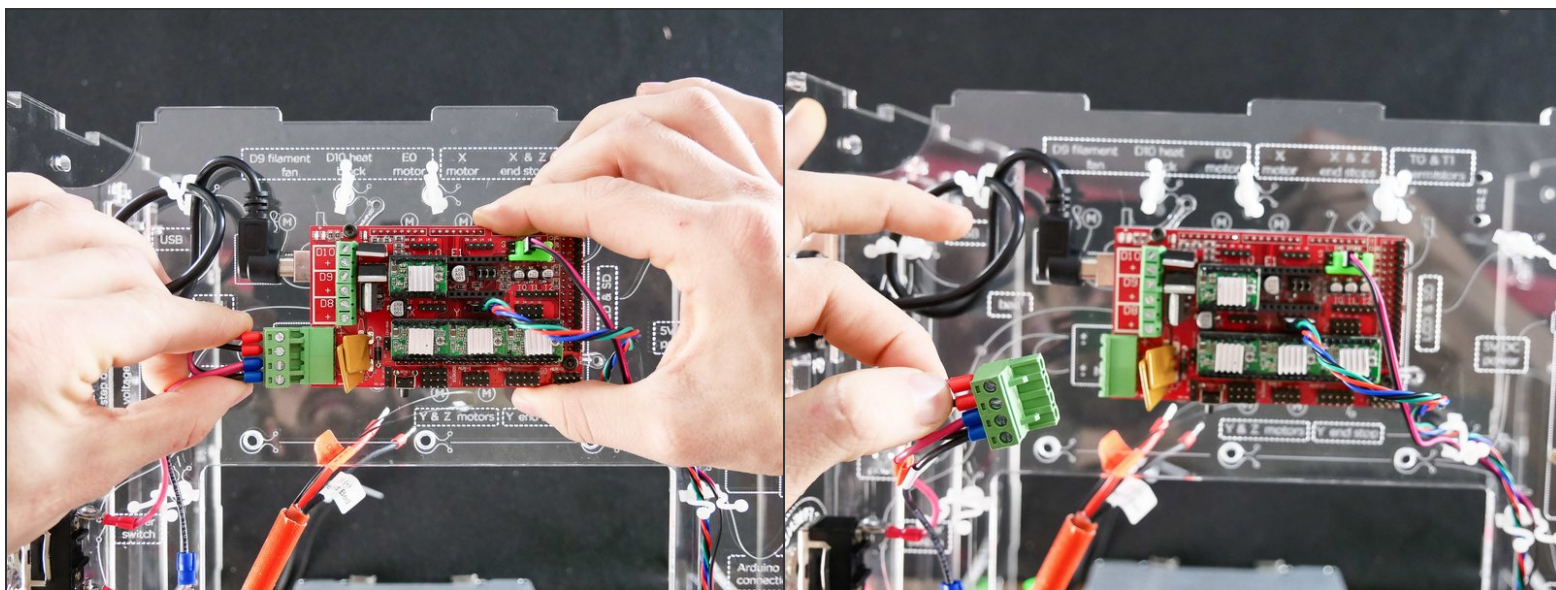
- Check ✓

Step 62



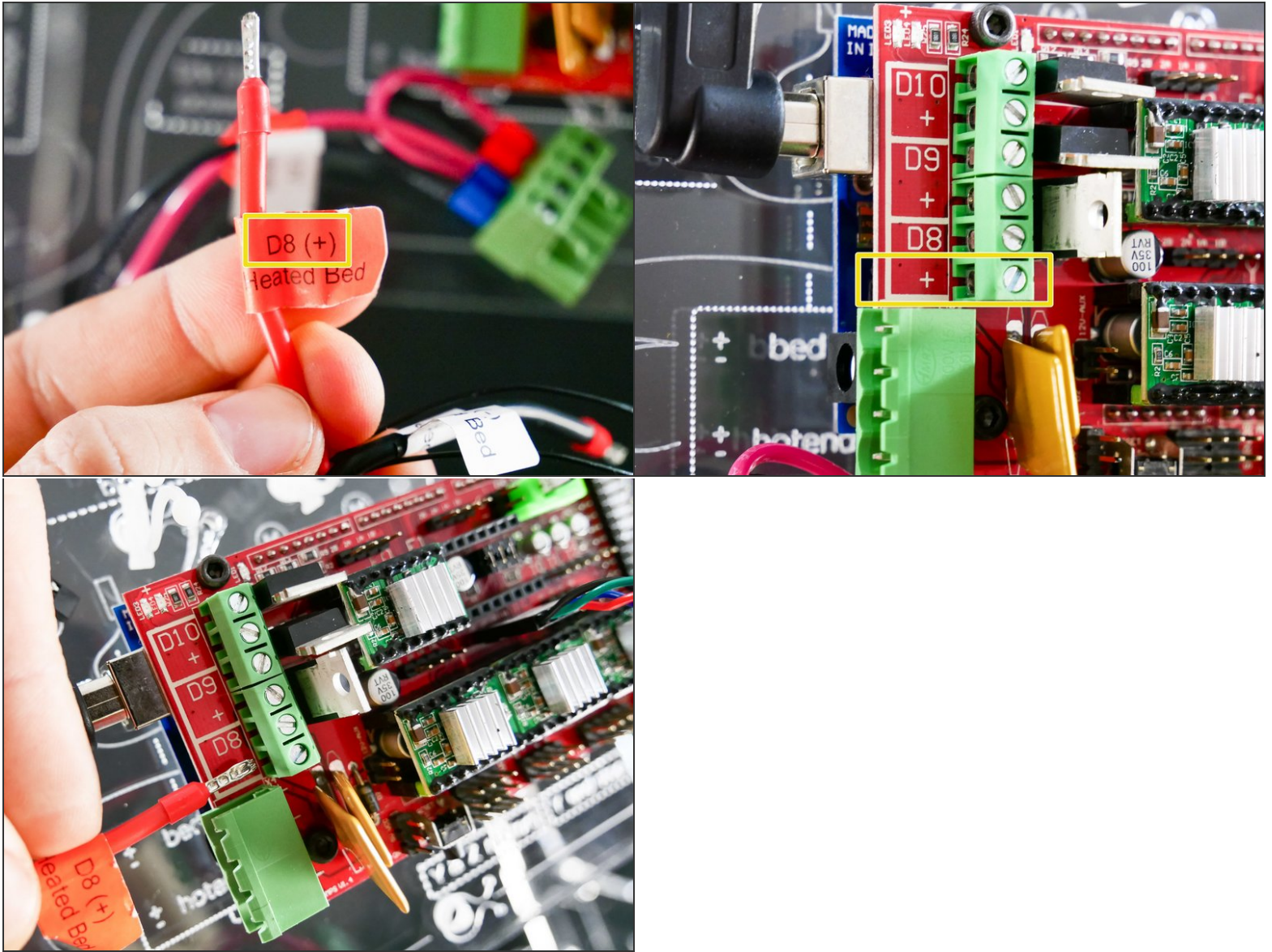
- ⚠ Fully loosen up the D8 screws.

Step 63



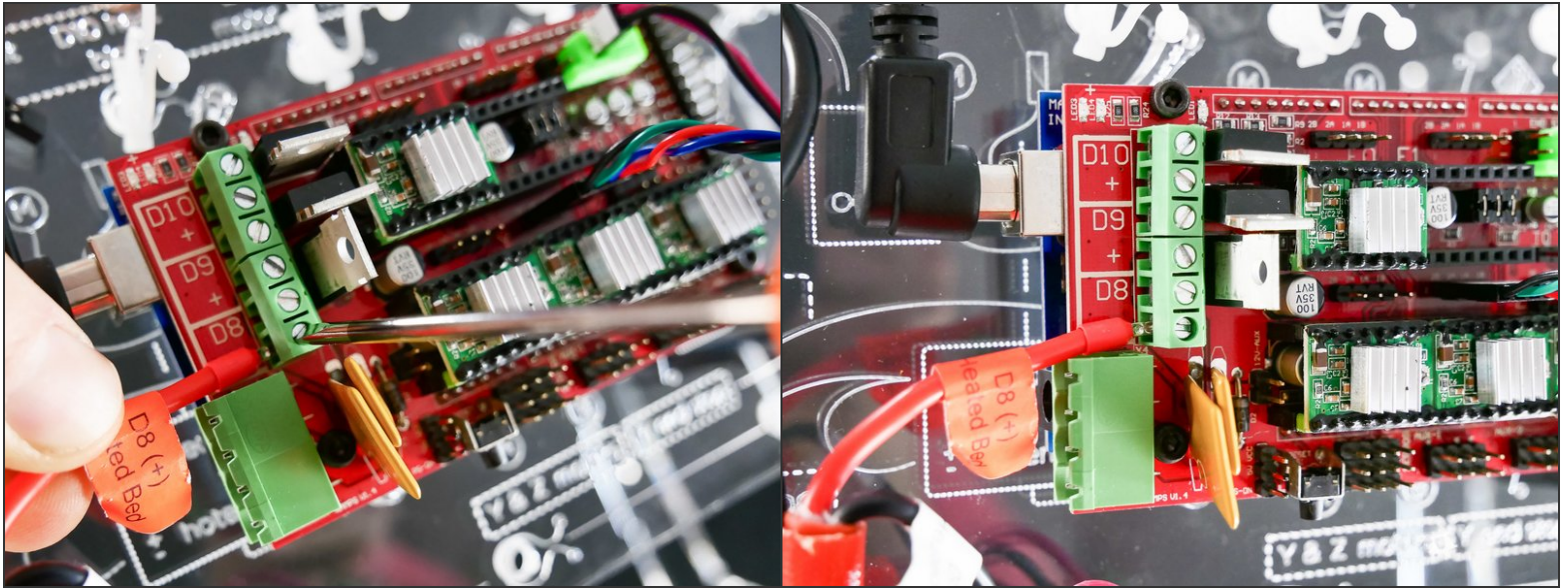
- Disconnect the power wires.

Step 64



Plus goes to plus!

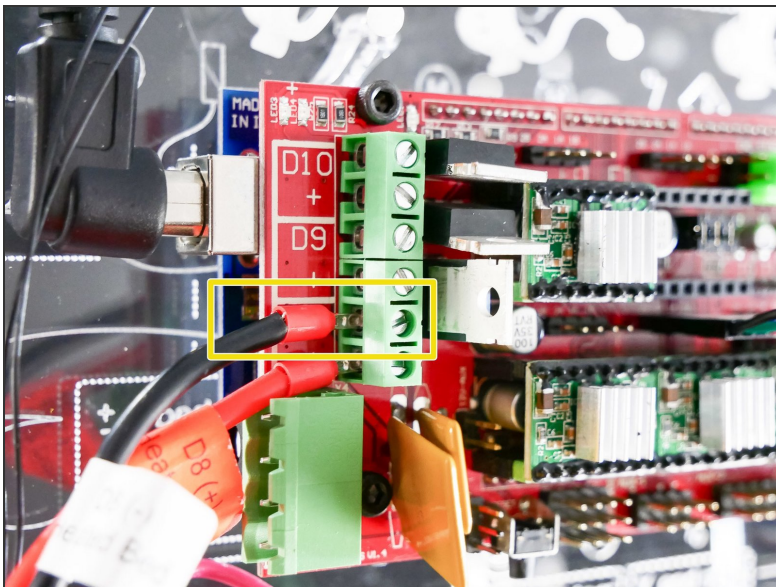
Step 65



⚠ Tightlyen well.

- If the screw is loose, the electricity will not flow as well, which will heat up the involved components, possibly to a fault.

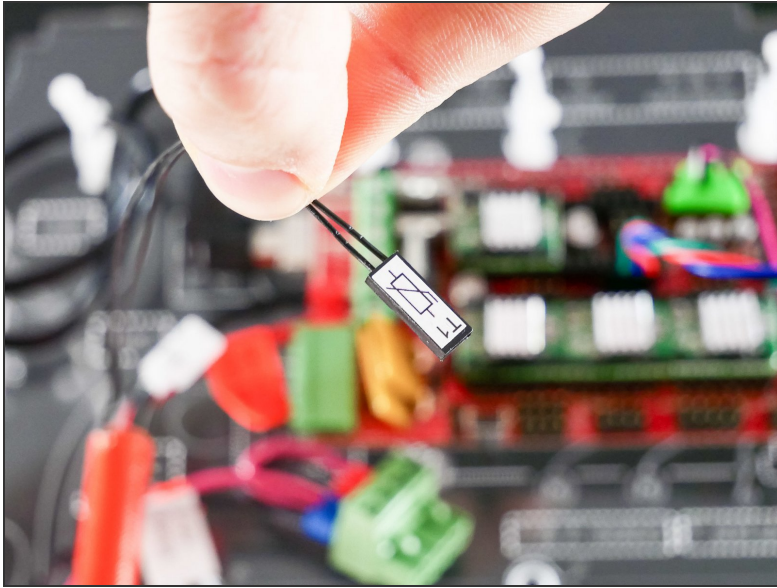
Step 66



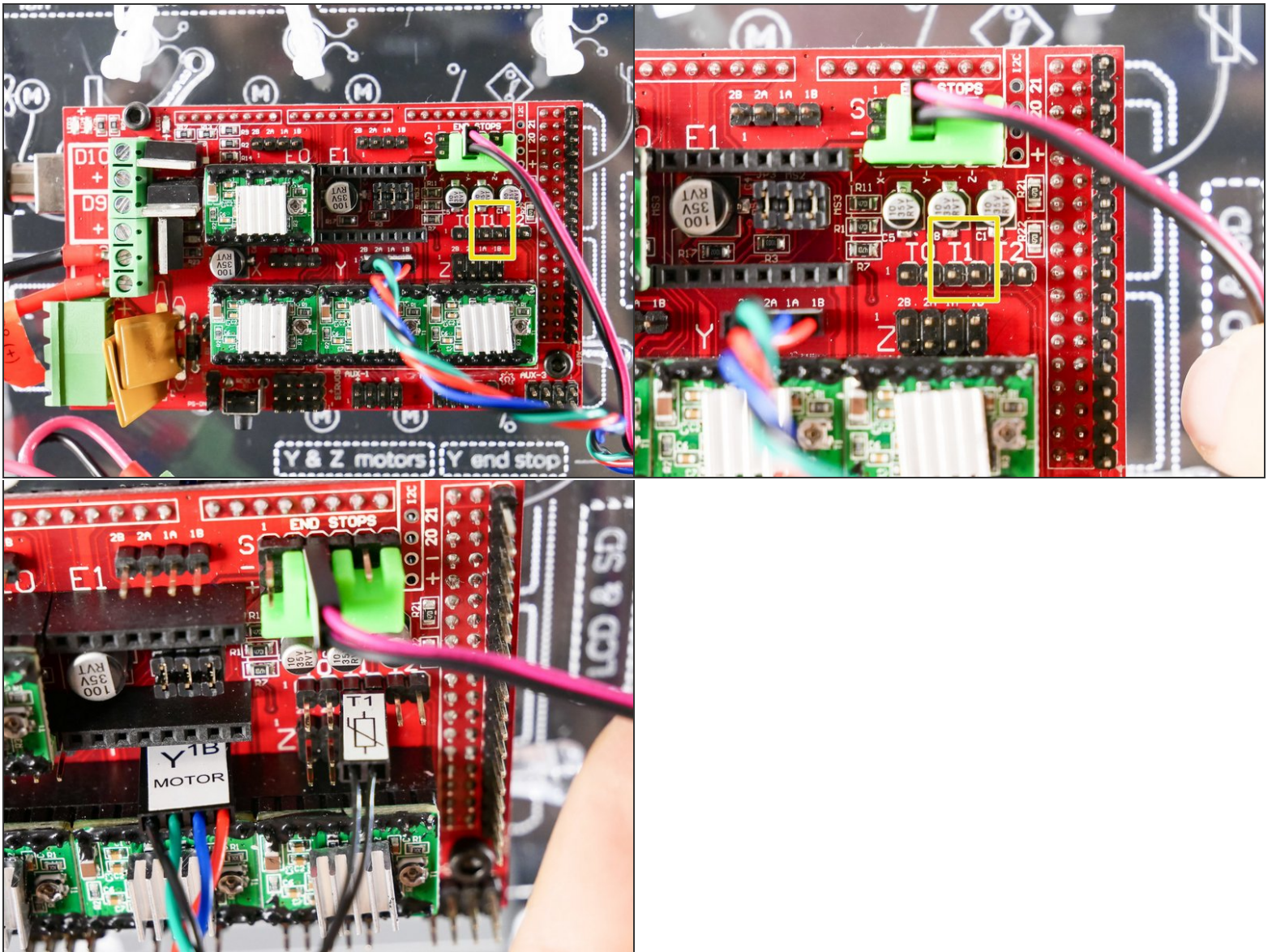
- D8 minus to minus.

⚠ Tightlyen well.

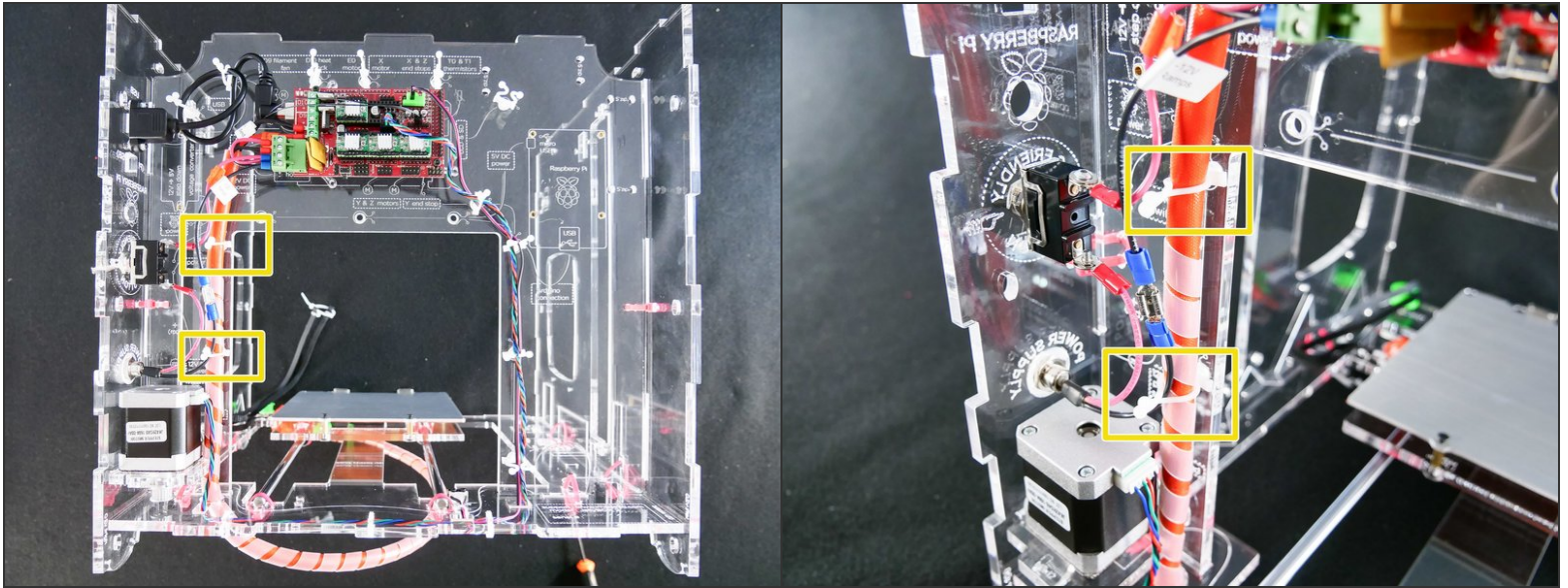
Step 67



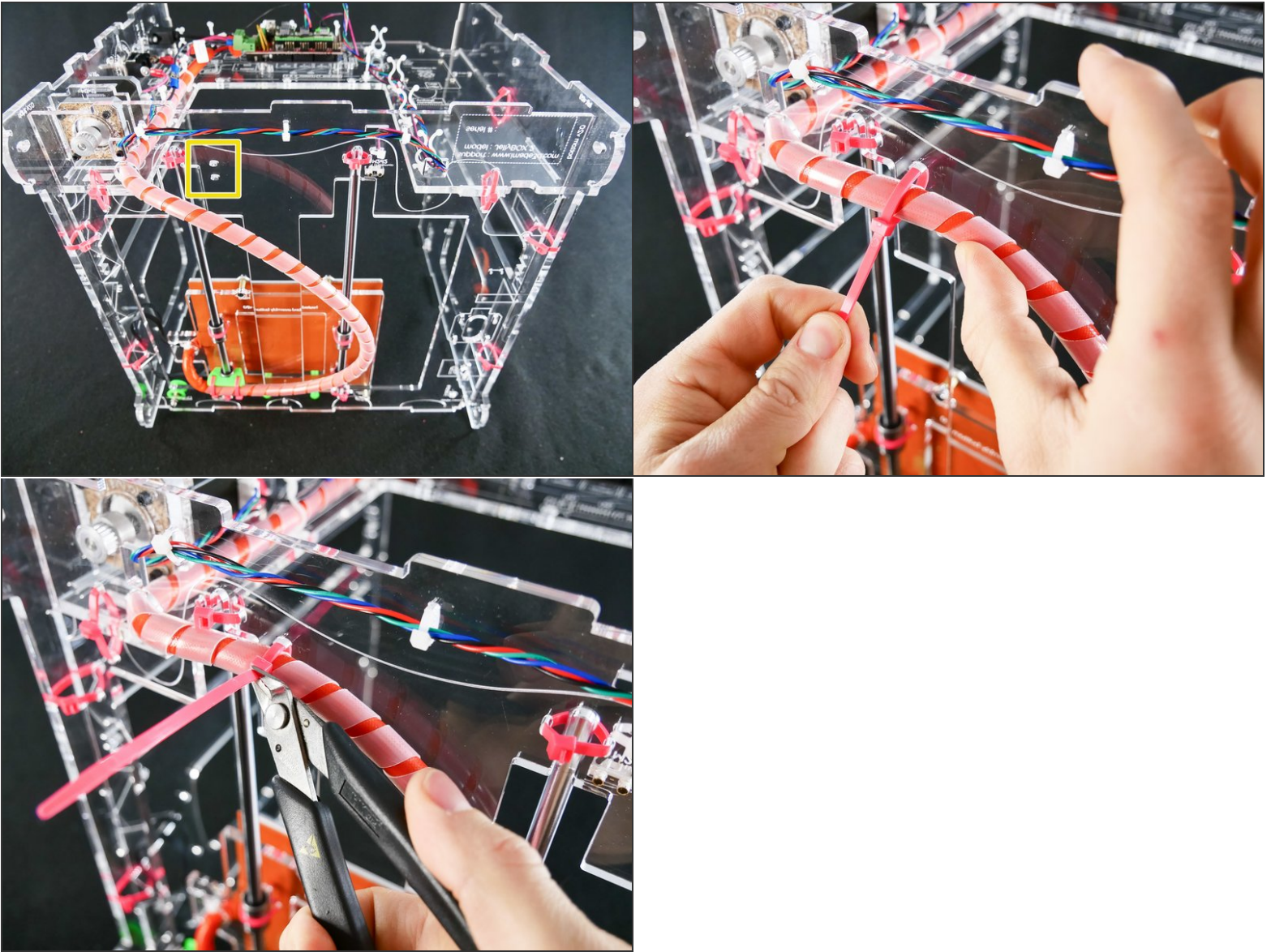
Step 68

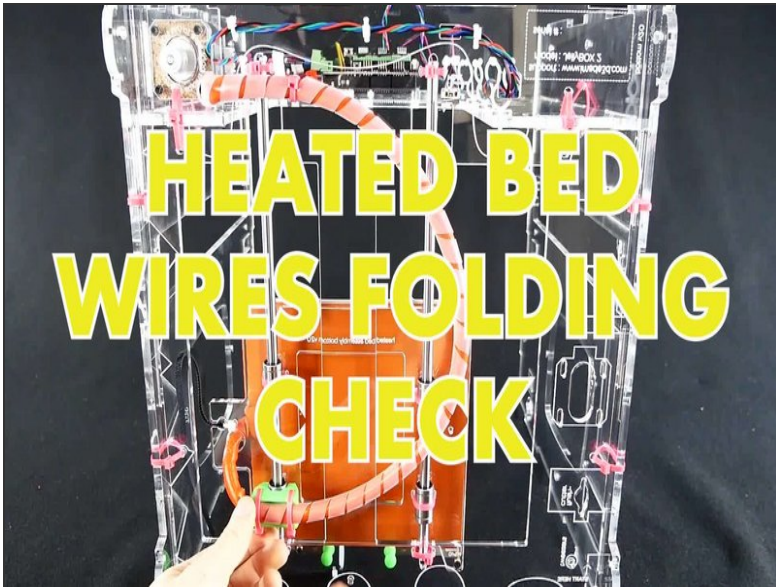


Step 69



Step 70

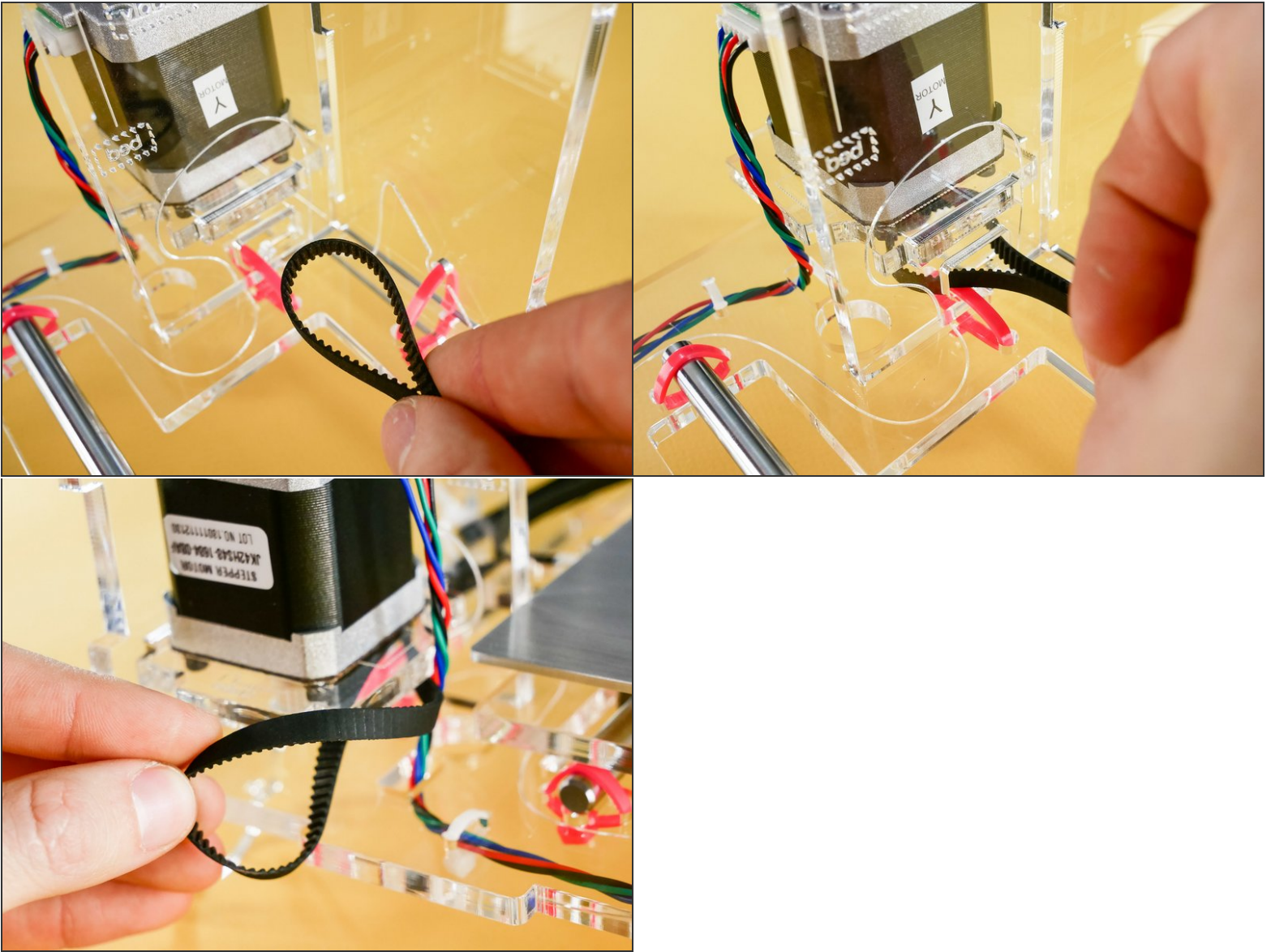


Step 71 — ► Video: Heated Y Assembly Wires Folding Check

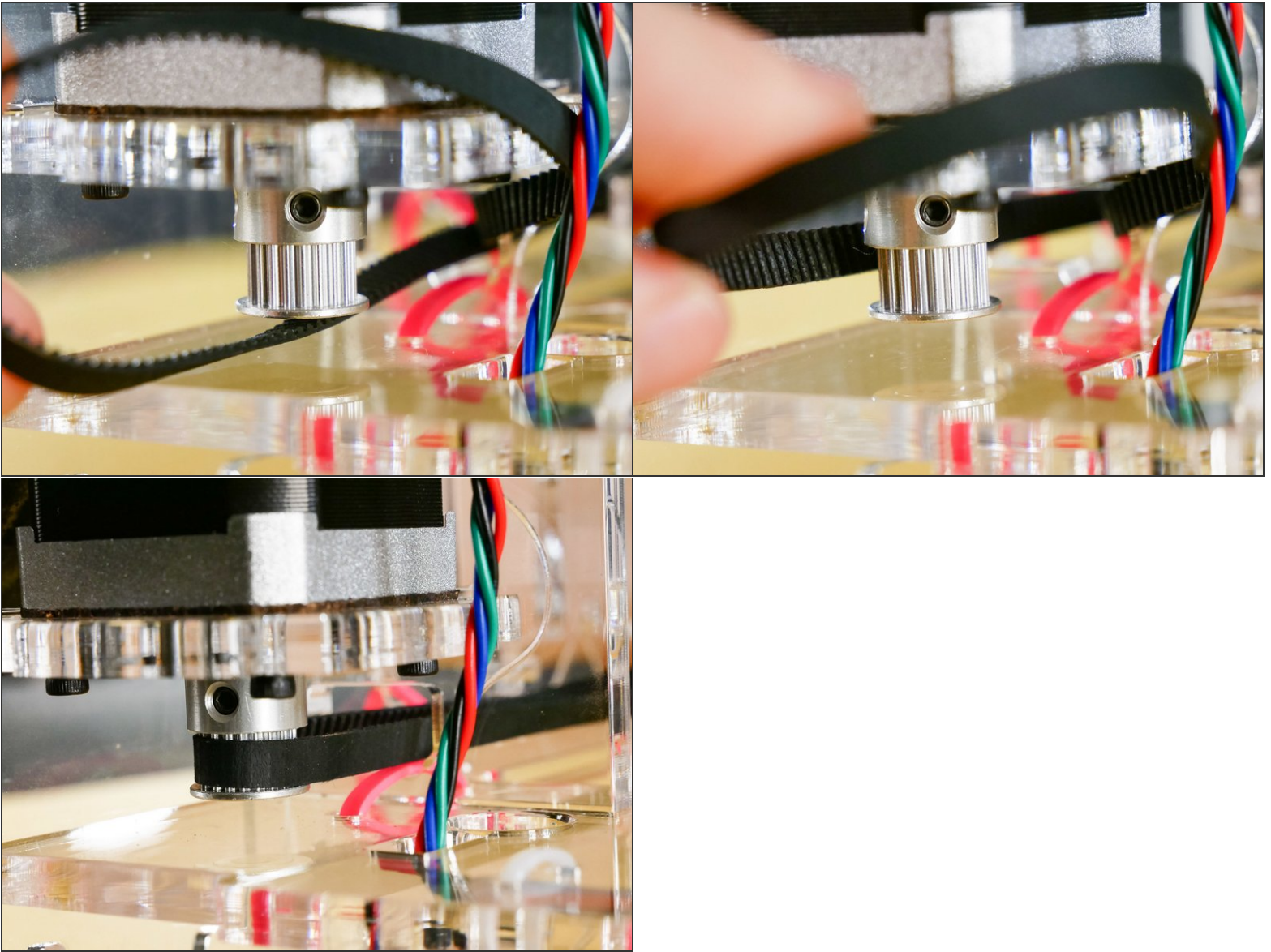
- ► Video: Heated Y Assembly Wires Folding Check
- Verify that the wires are folding nicely and smoothly.
- Also, one of the bearings should be hitting the Y endstop.

Step 72 — ↳ Install the Y Belt

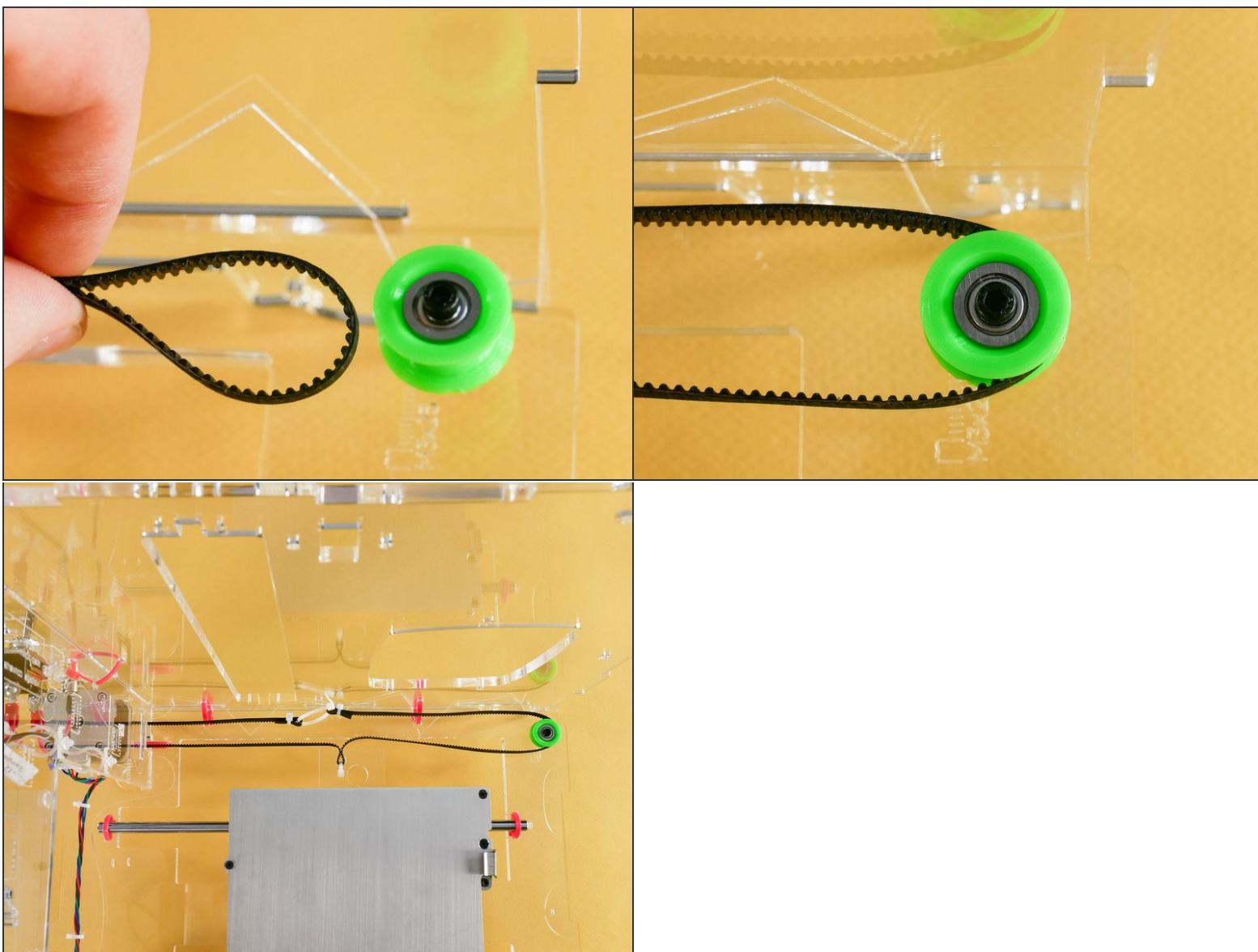
Step 73



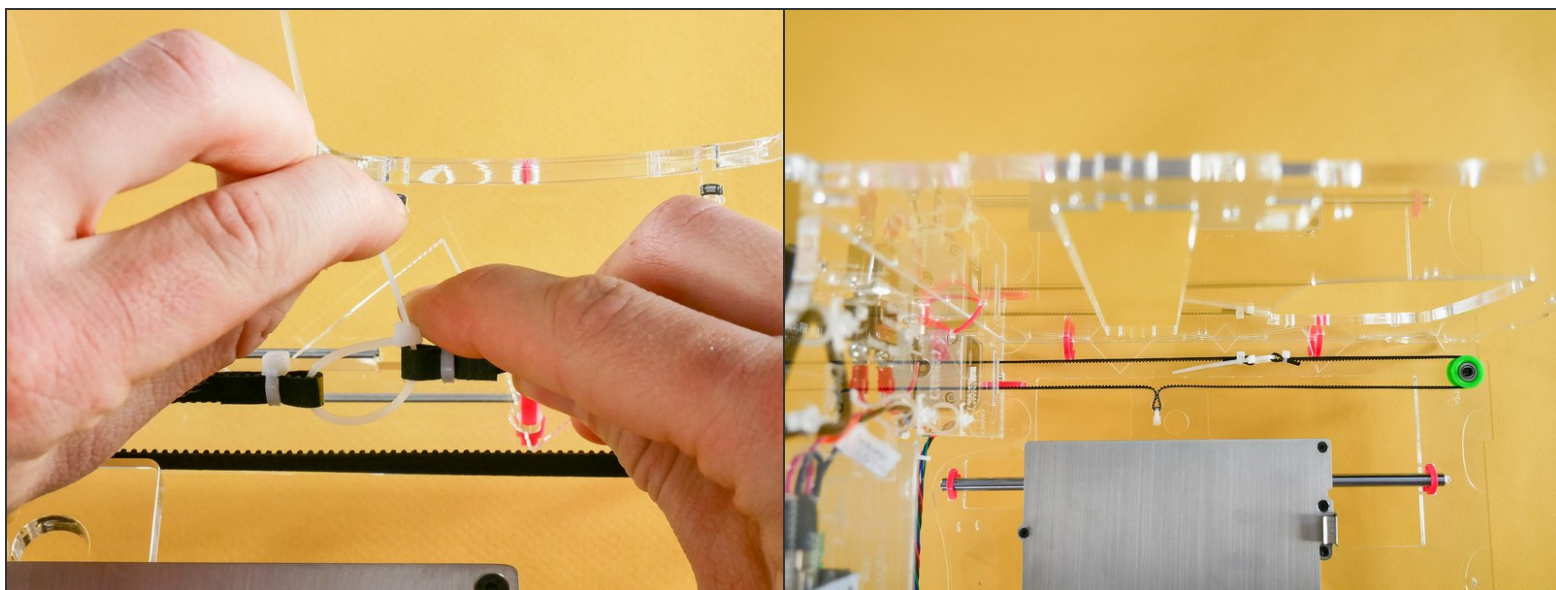
Step 74



Step 75



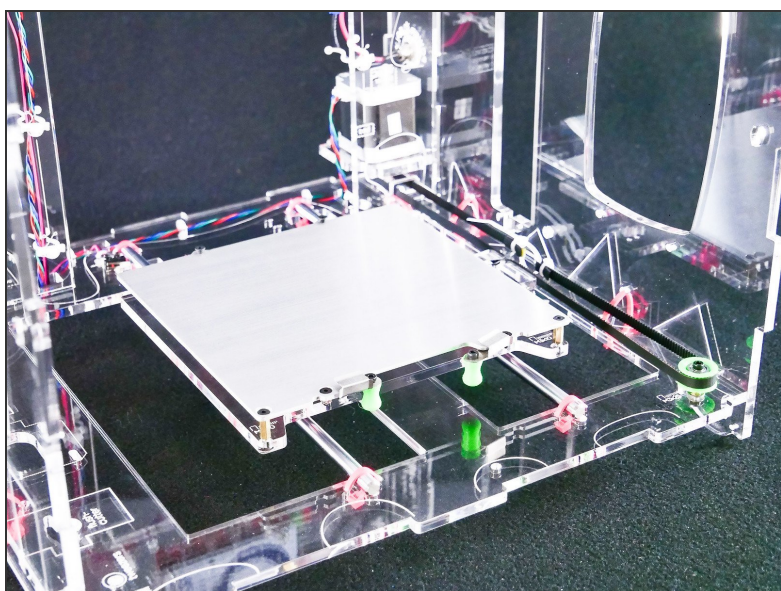
Step 76



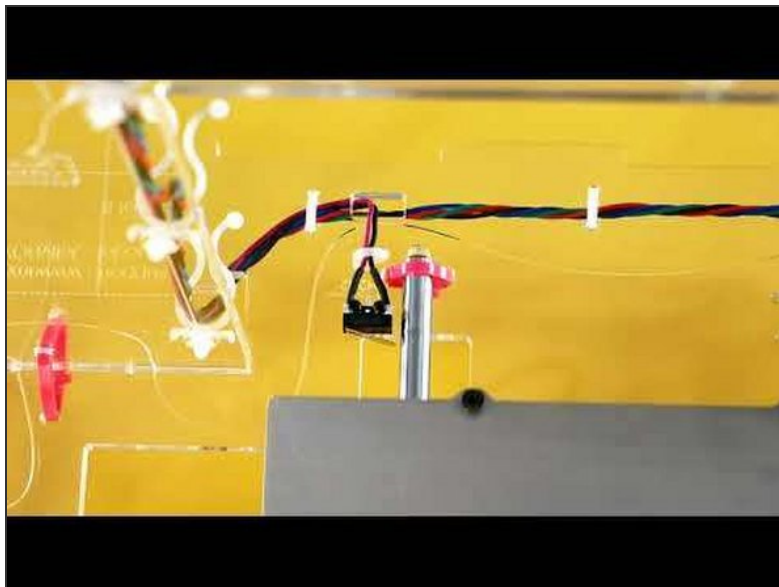
- Lightly tension the belt.

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

Step 77 — Looking good!



Step 78 — ► 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.