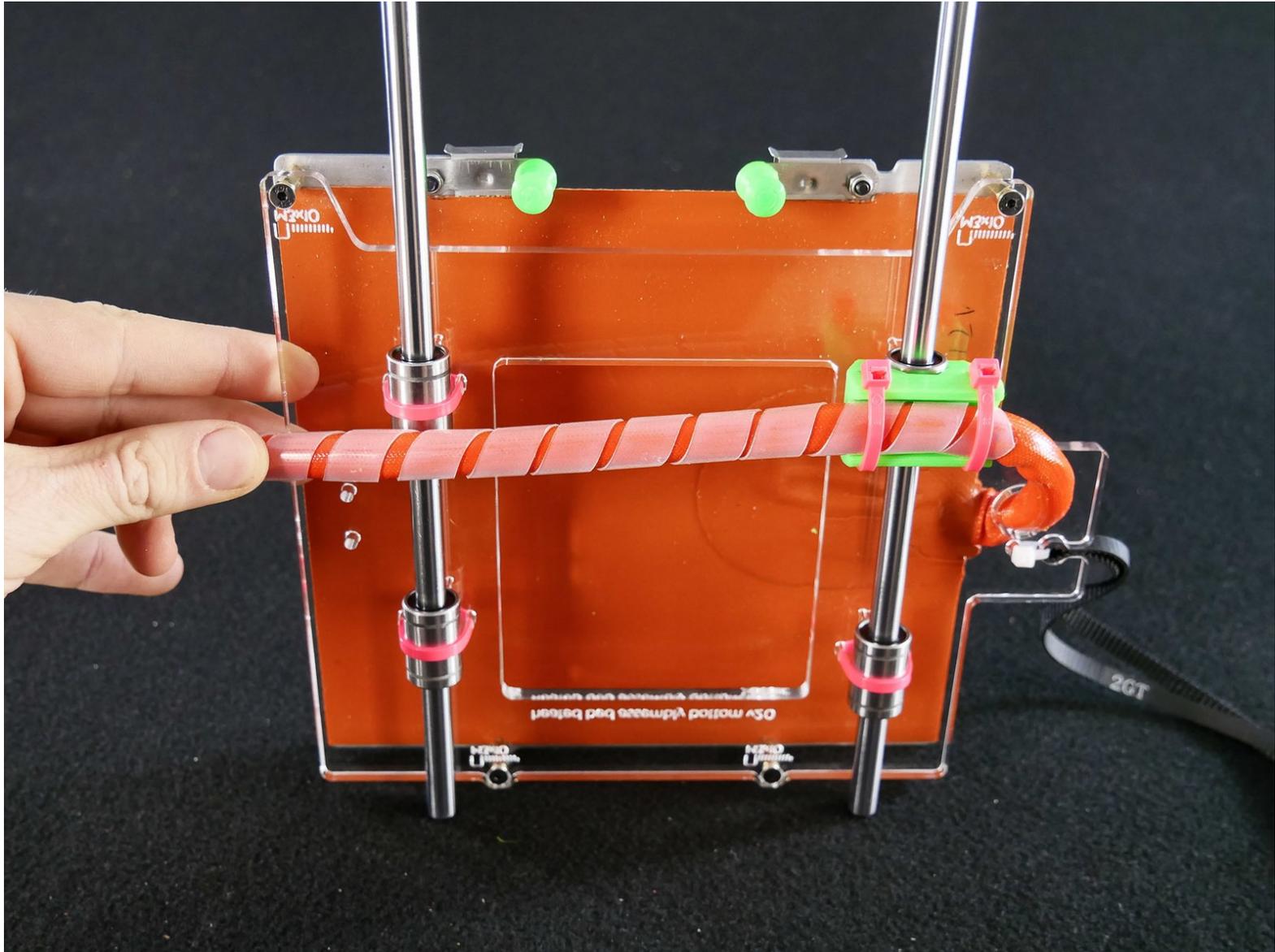




Install the Heated Y Assembly

Install the Heated Y Assembly

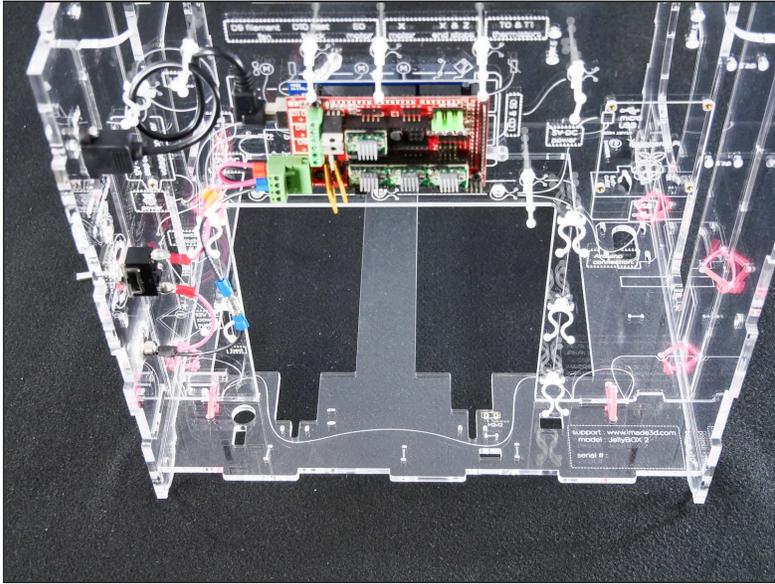


INTRODUCTION

Not the guide you are looking for?

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

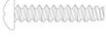
Step 1 — ↪ Y Endstop



Step 2



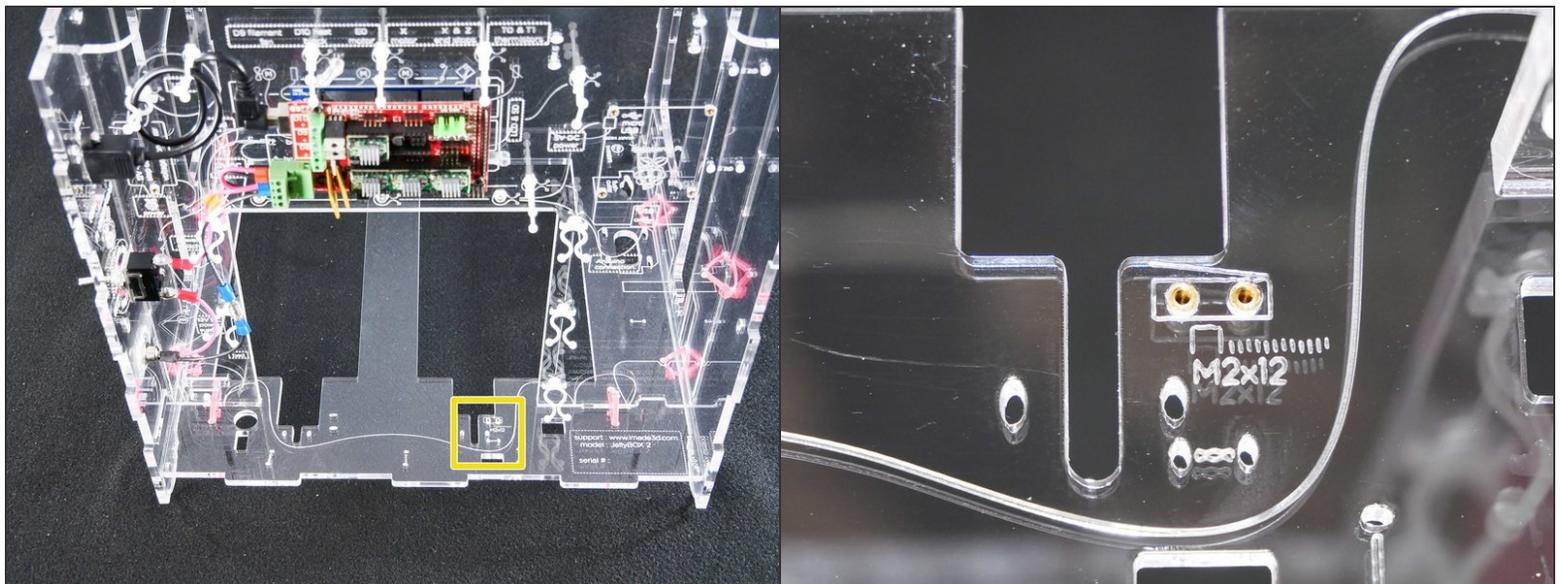
Step 3

<p>M3 'nylock' locking nut</p> 	<p>M3 oversized washer</p> 	<p>M3 serrated washer</p> 	<p>socket head screw M2x12</p>  <p>12mm</p>	<p>M3 plastite screw</p> 
<p>flat head screw M3x8</p>  <p>8mm</p>	<p>flat head screw M3x10</p>  <p>10mm</p>	<p>flat head screw M3x10</p>  <p>2*</p>	<p>socket head screw M3x10</p>  <p>10mm</p>	<p>socket head screw M3x12</p>  <p>12mm</p>
<p>socket head screw M3x16</p>  <p>16mm</p>	<p>socket head screw M3x25</p>  <p>25mm</p>	<p>socket head screw M3x30</p>  <p>30mm</p>	<p>socket head screw M3x45</p>  <p>45mm</p>	<p>socket head screw M3x60</p>  <p>60mm</p>
<p>idlers</p> 	<p>Y-assembly</p> 	<p>feeder</p> 	<p>electronics 'dogbone' stand-offs</p> 	<p>spare parts</p> 

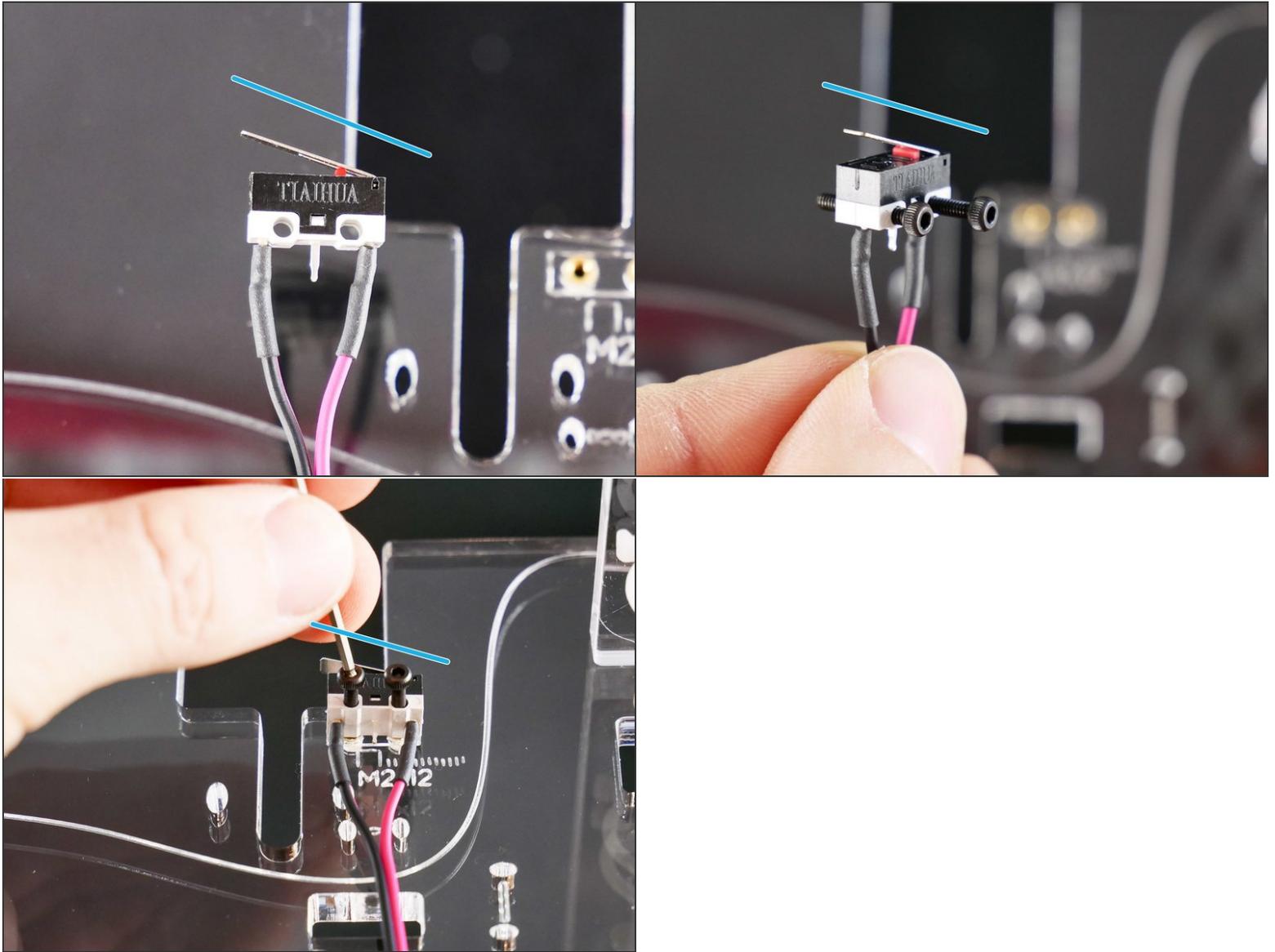


- M2x12 (these are the tiniest)

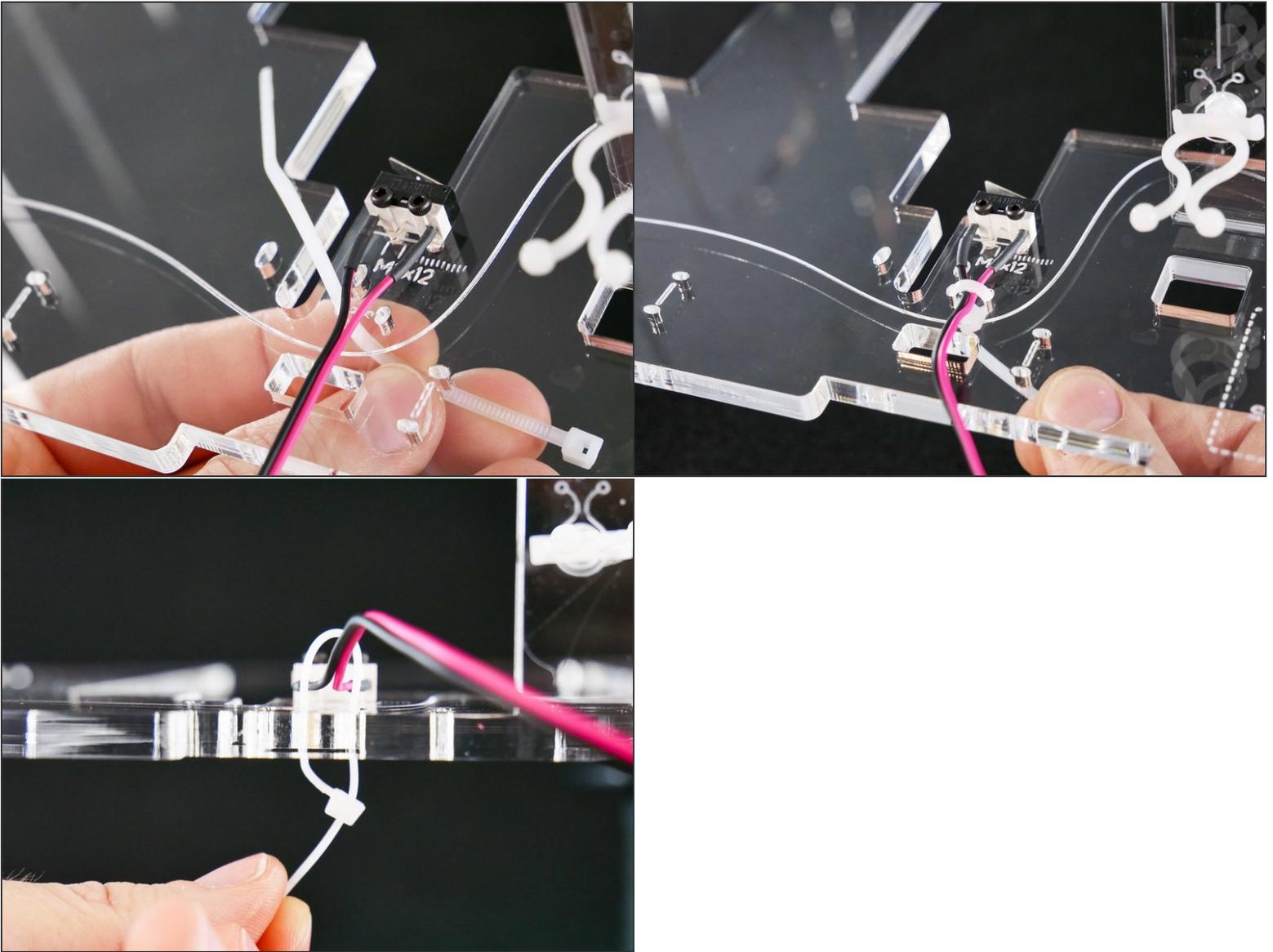
Step 4



Step 5

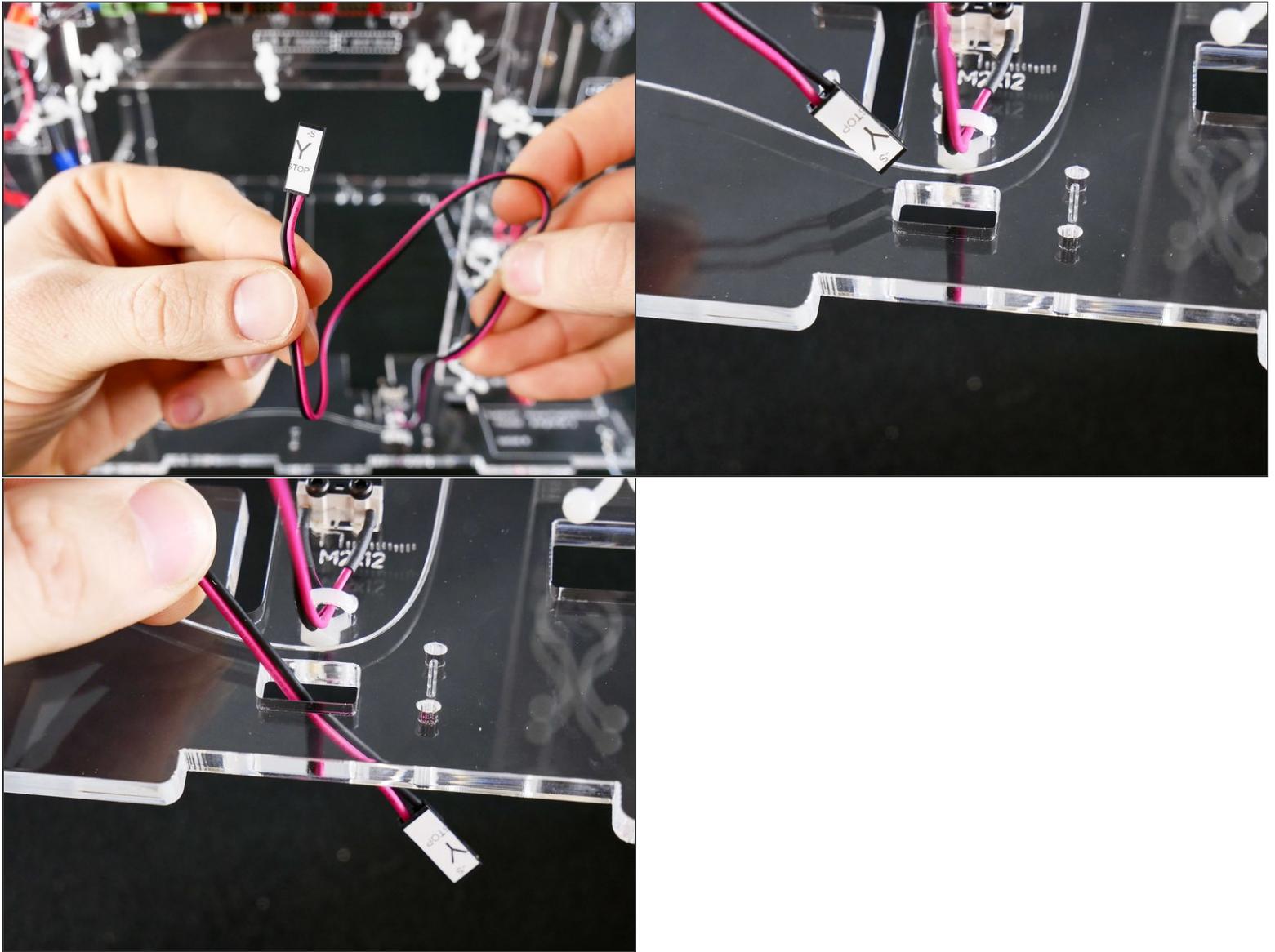


- The switch **reed** needs to point towards left.

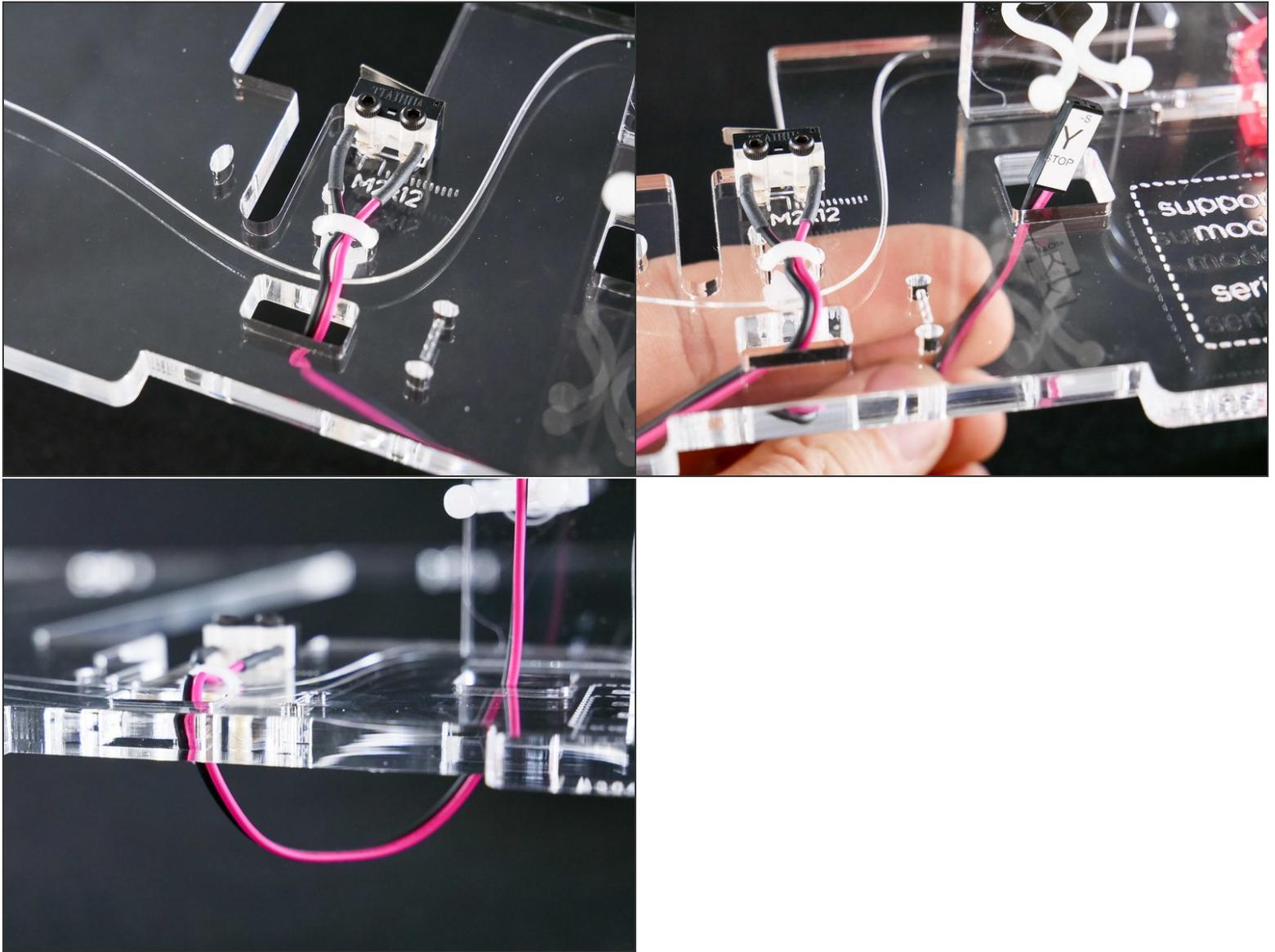
Step 6

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

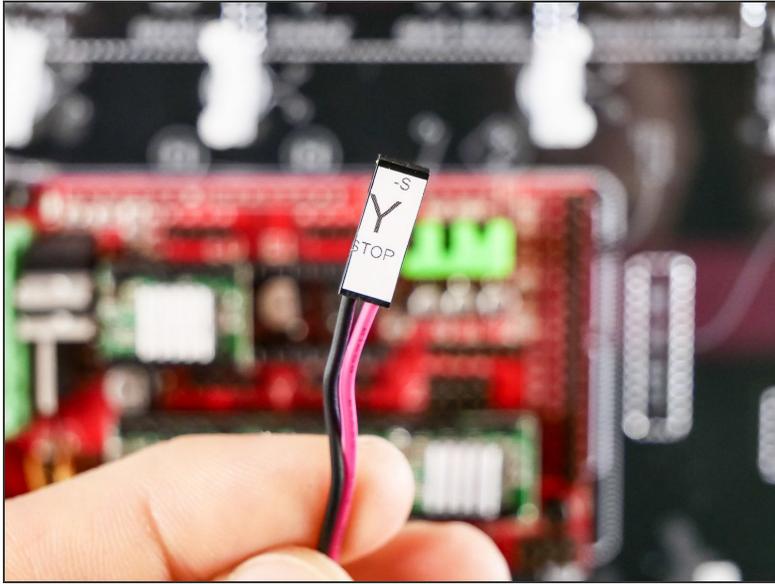
Step 7



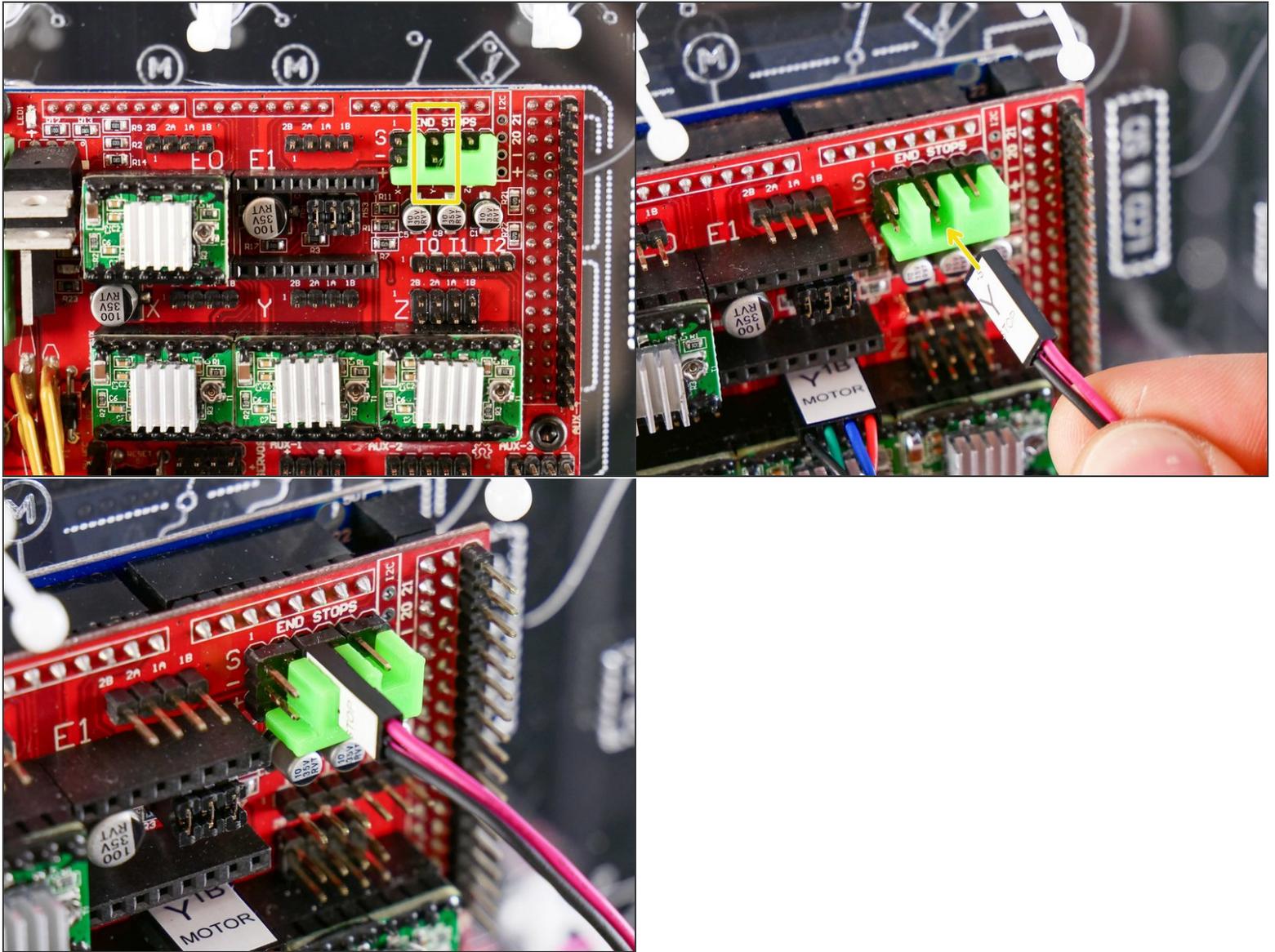
Step 8



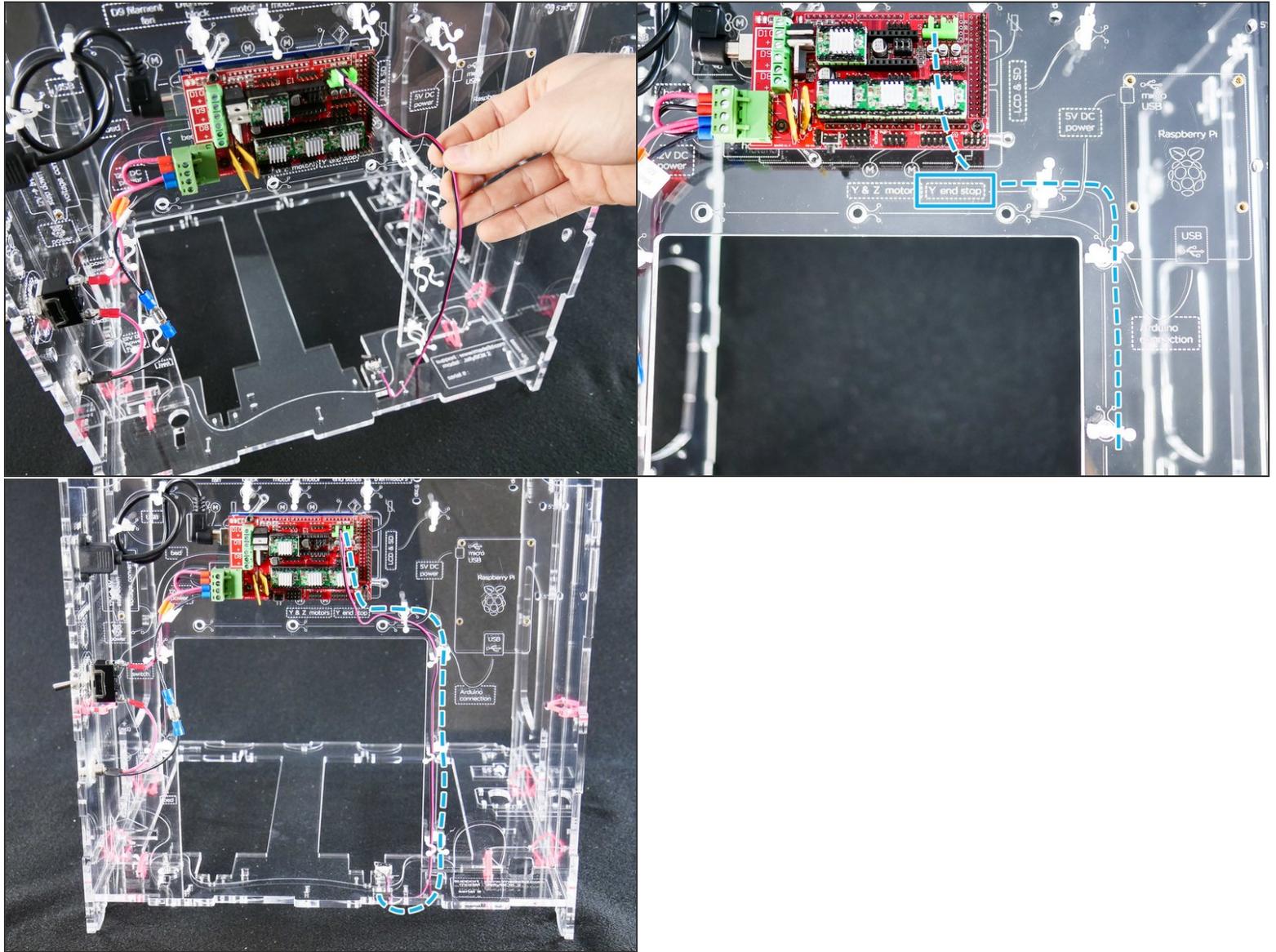
Step 9



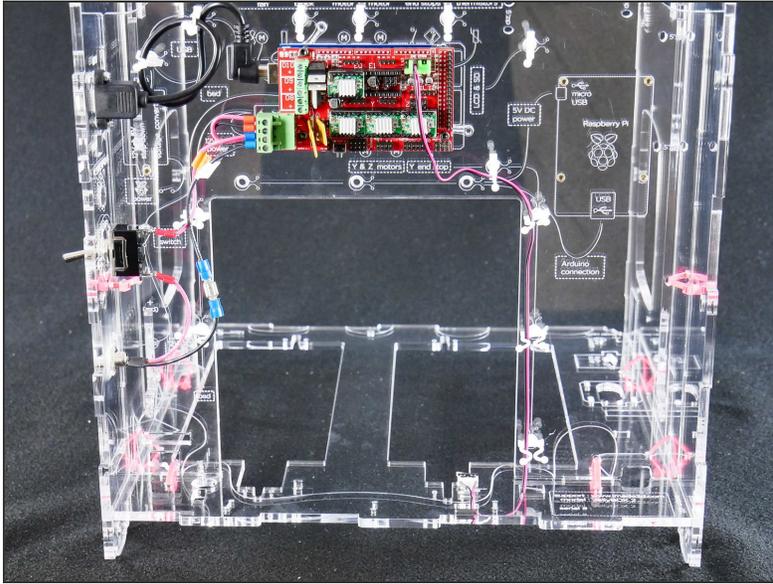
Step 10



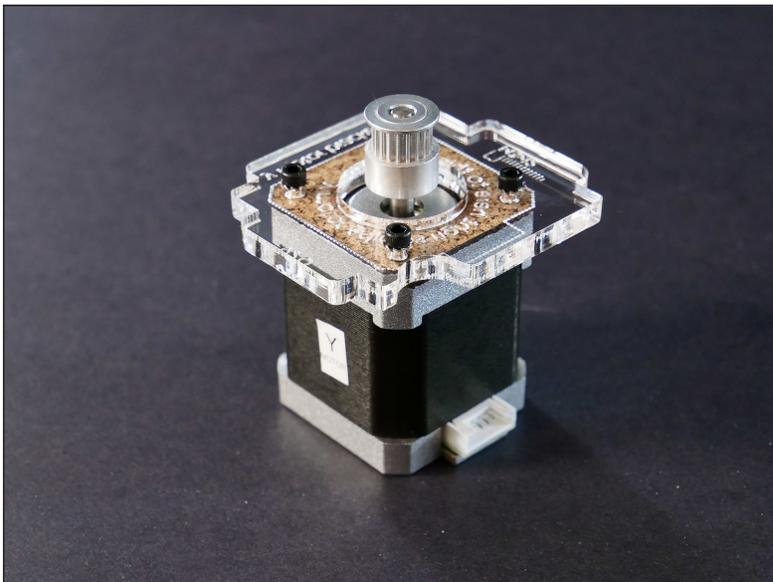
Step 11



Step 12 — Looking good!



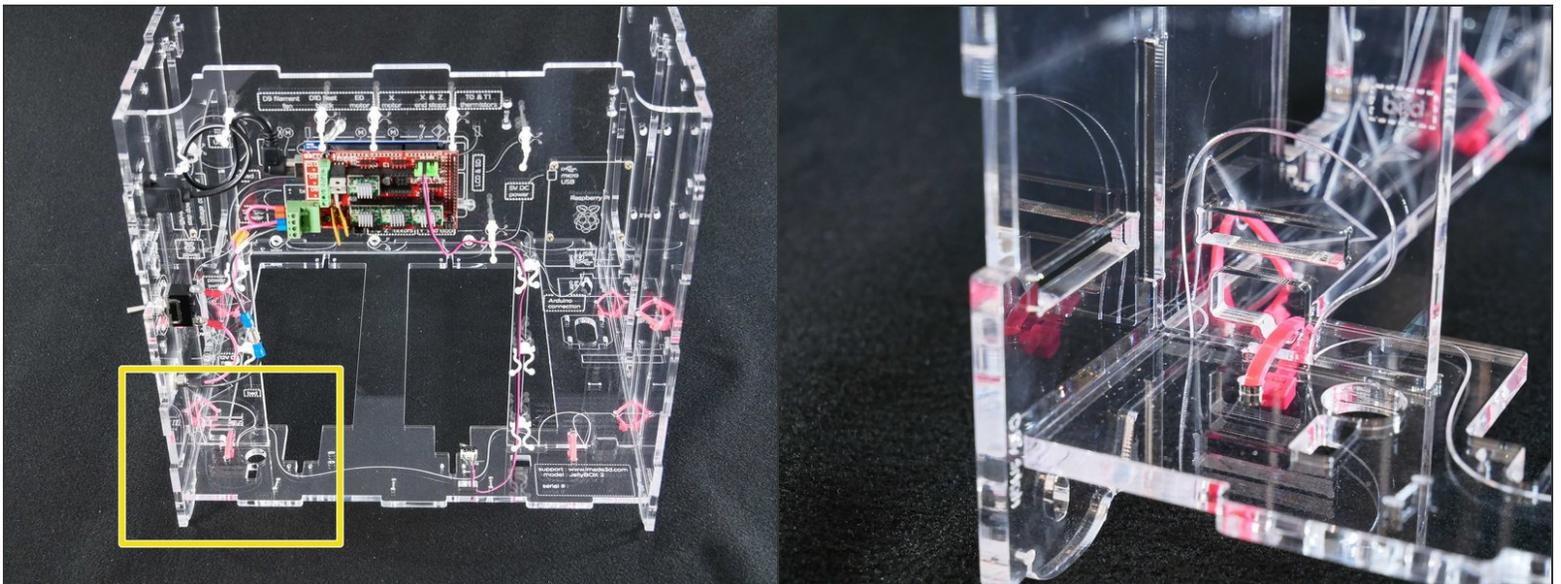
Step 13 — ↵ Insert the Y Motor Bracket



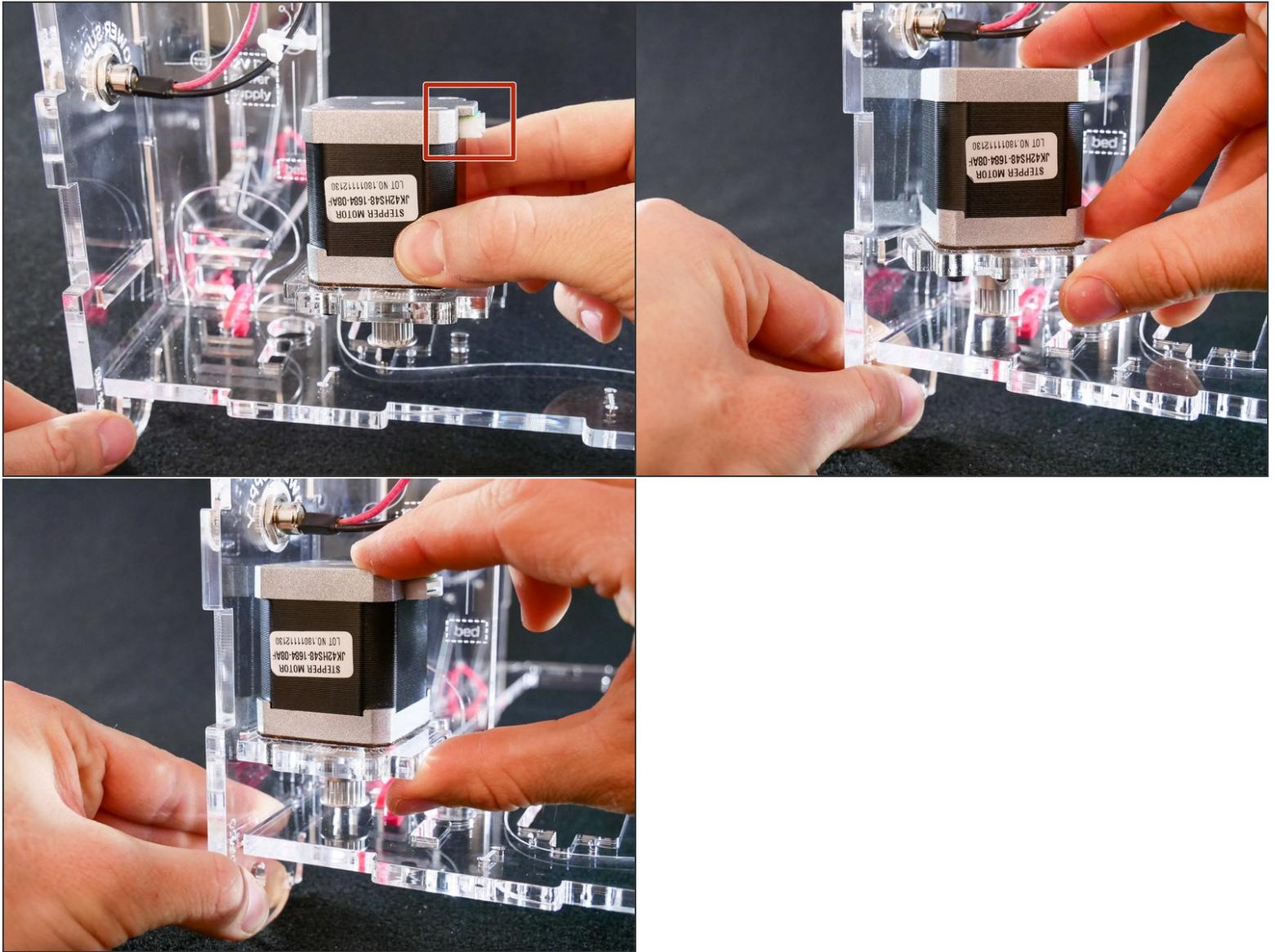
Step 14



Step 15

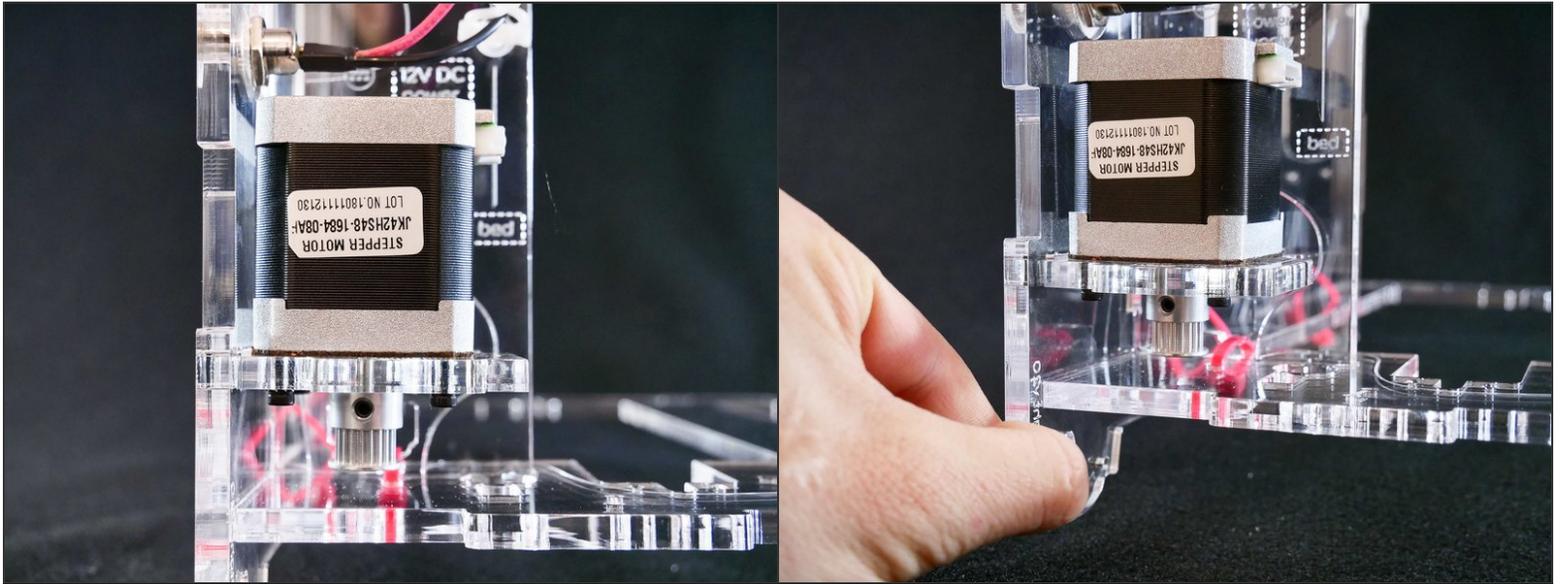


Step 16



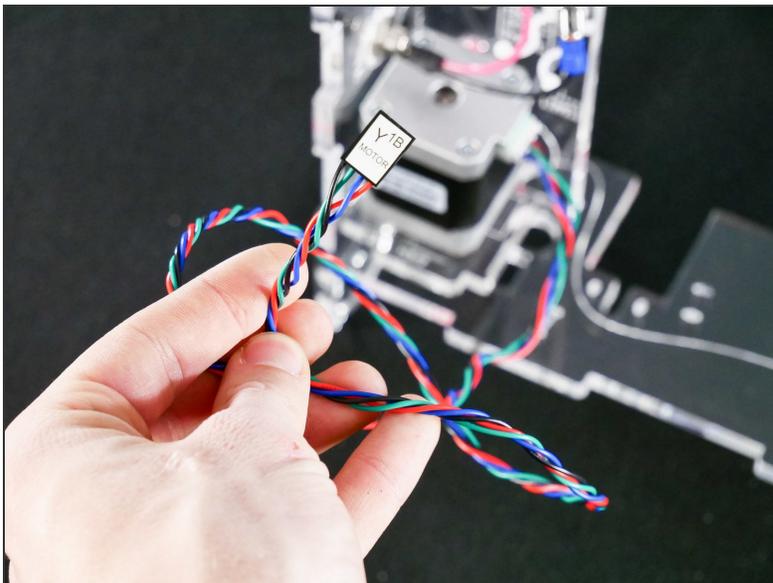
 Point the motor connector towards **right**.

Step 17

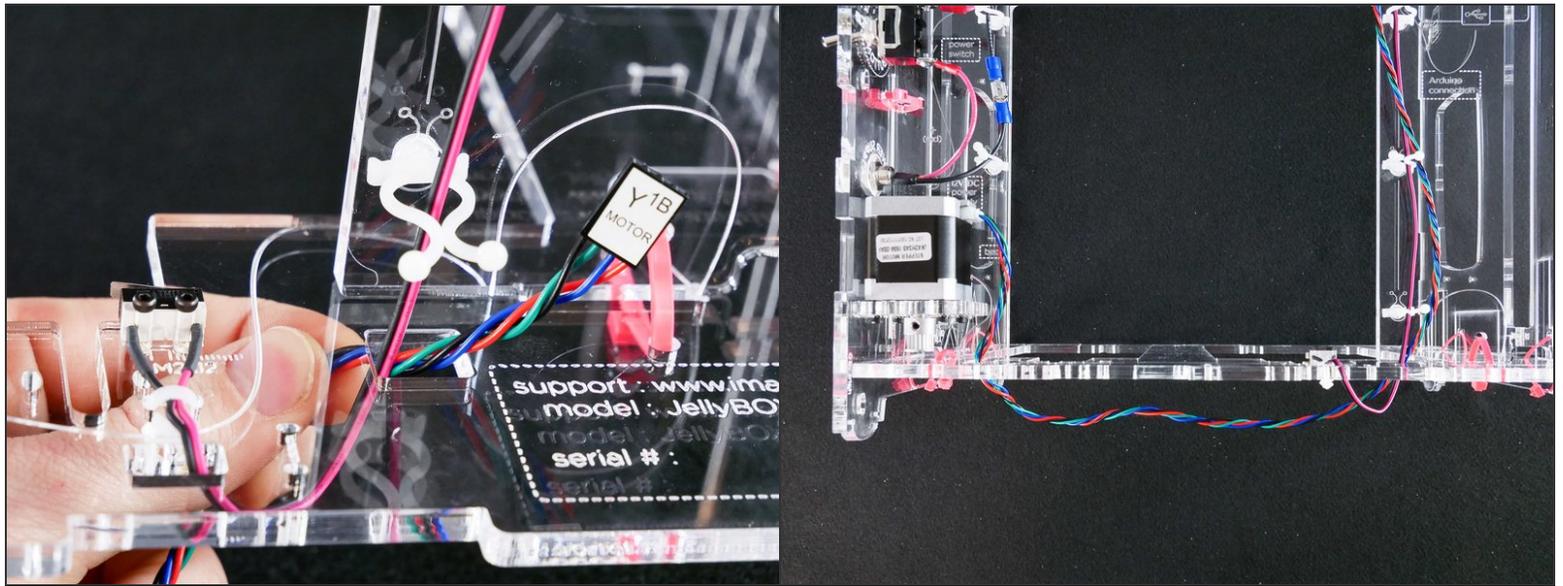


- Check ✓

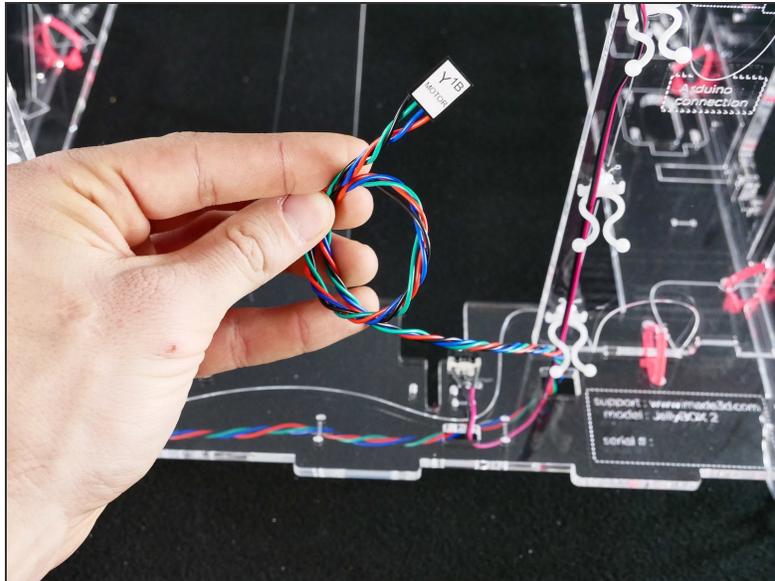
Step 18



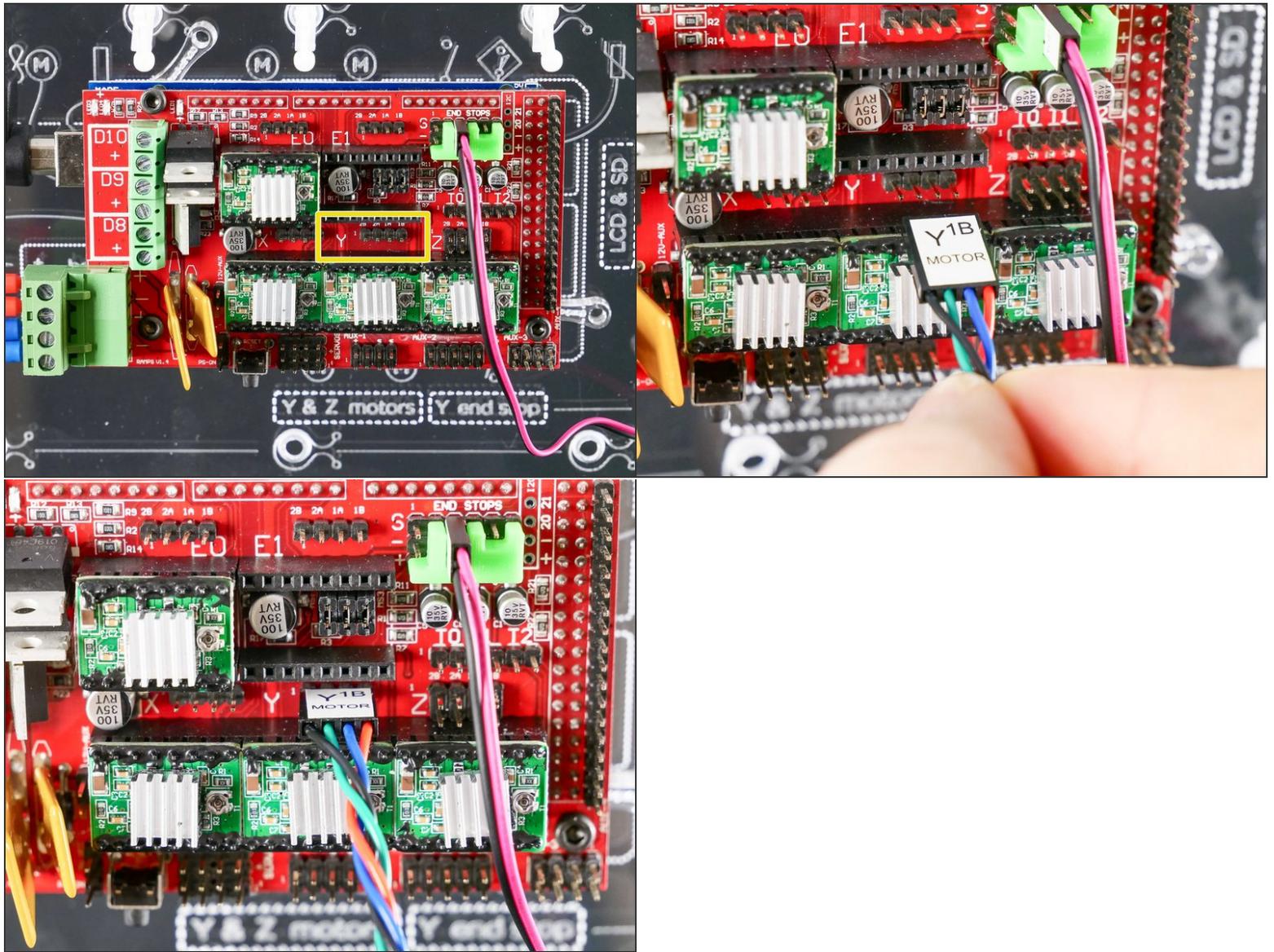
Step 20



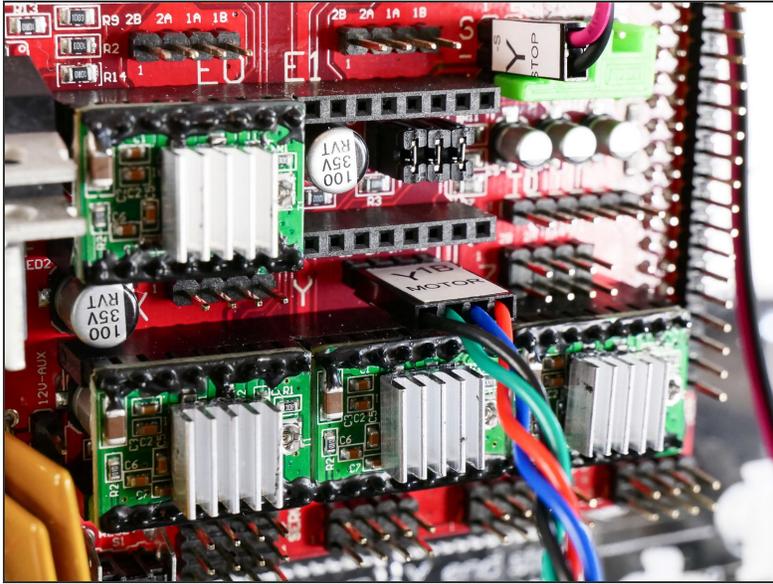
Step 21



Step 22

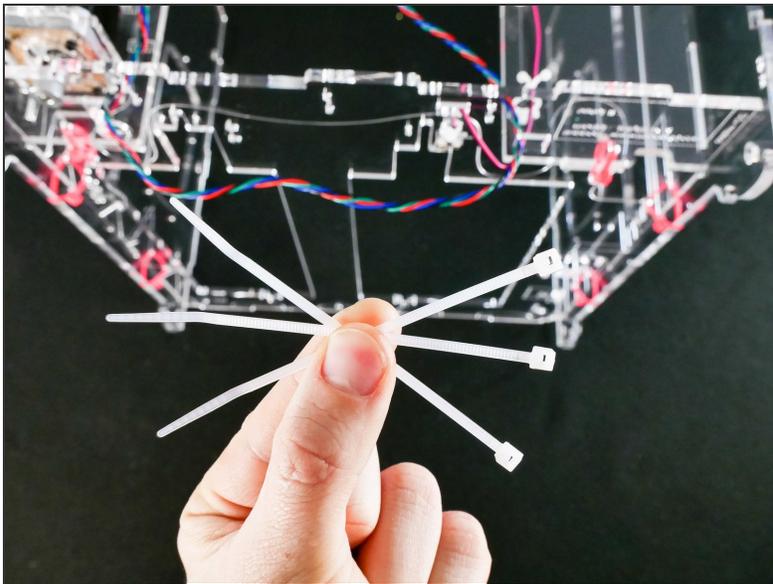


Step 23

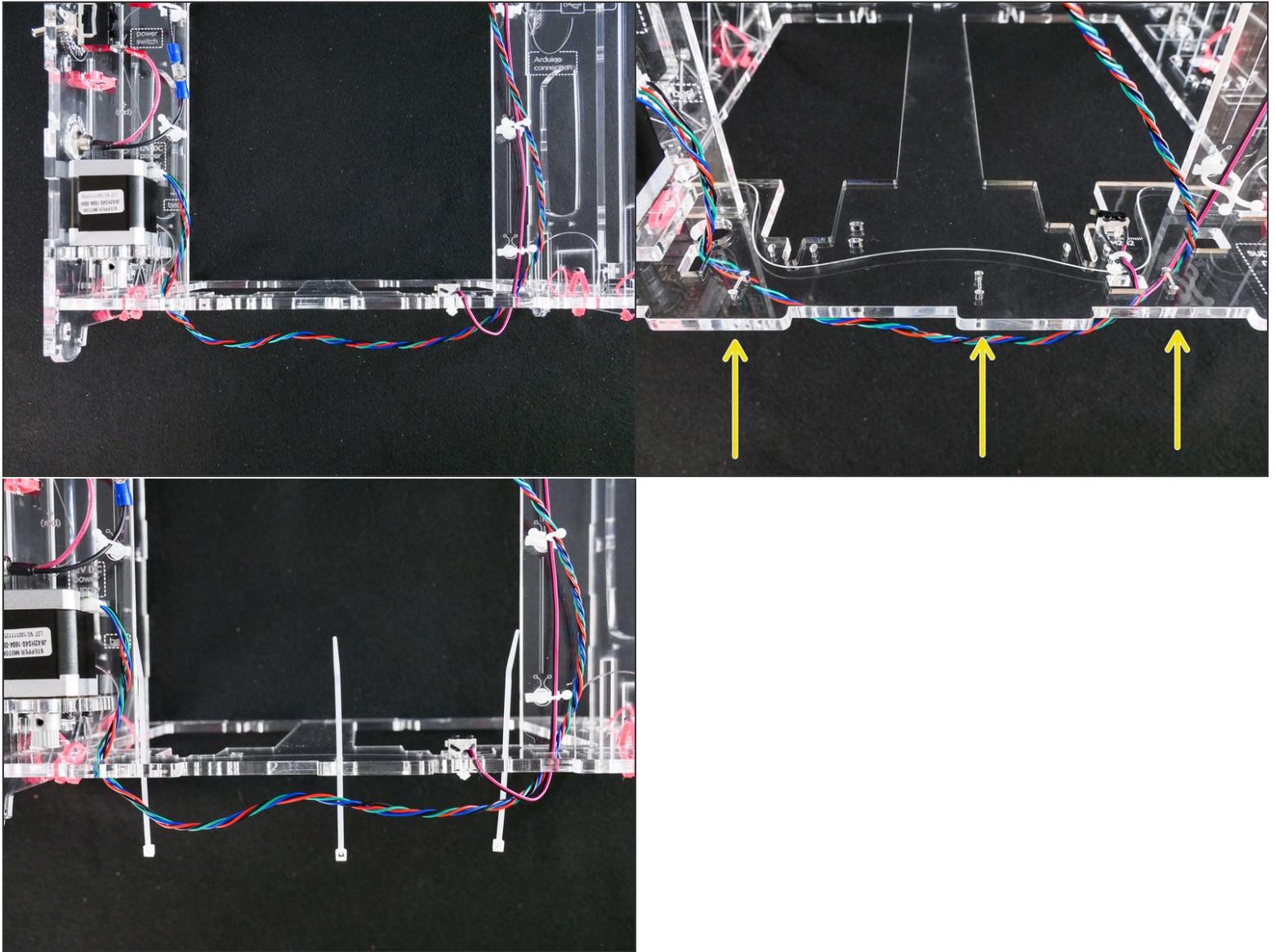


- Check ✓

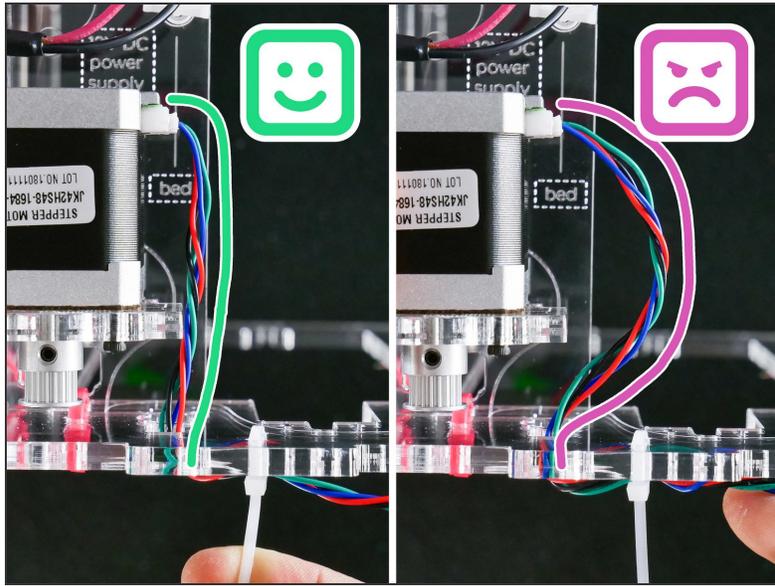
Step 24



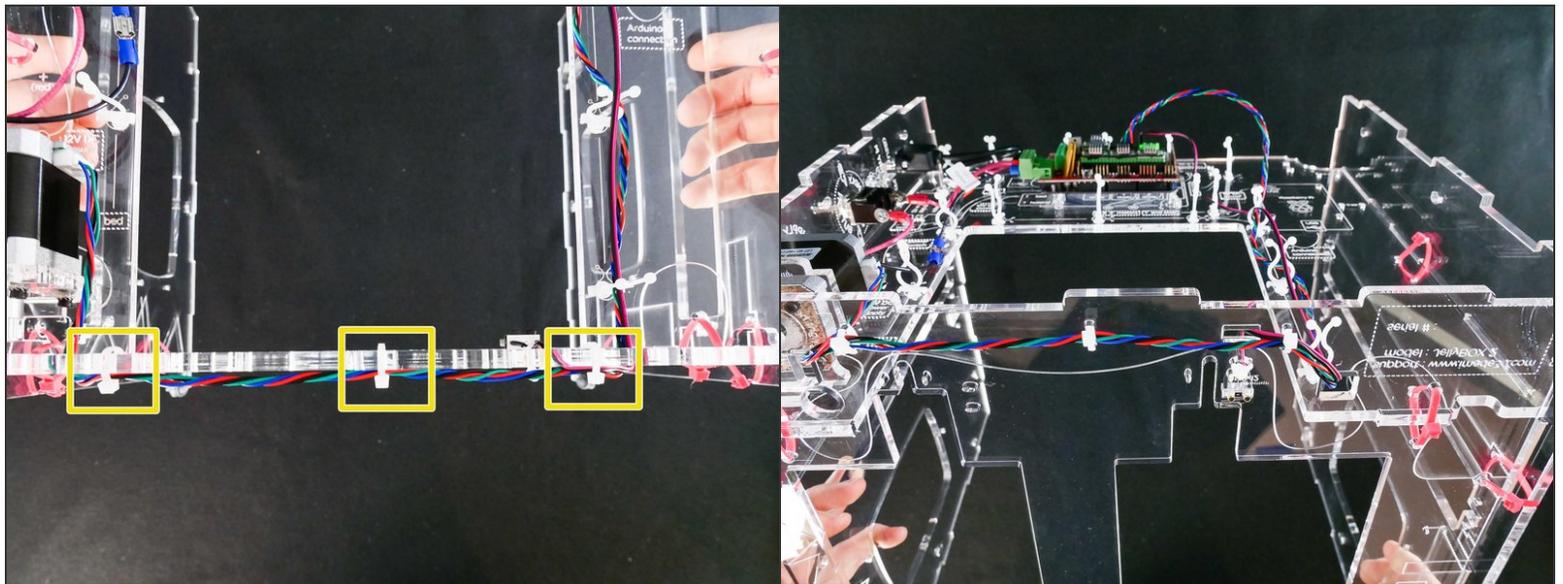
Step 25



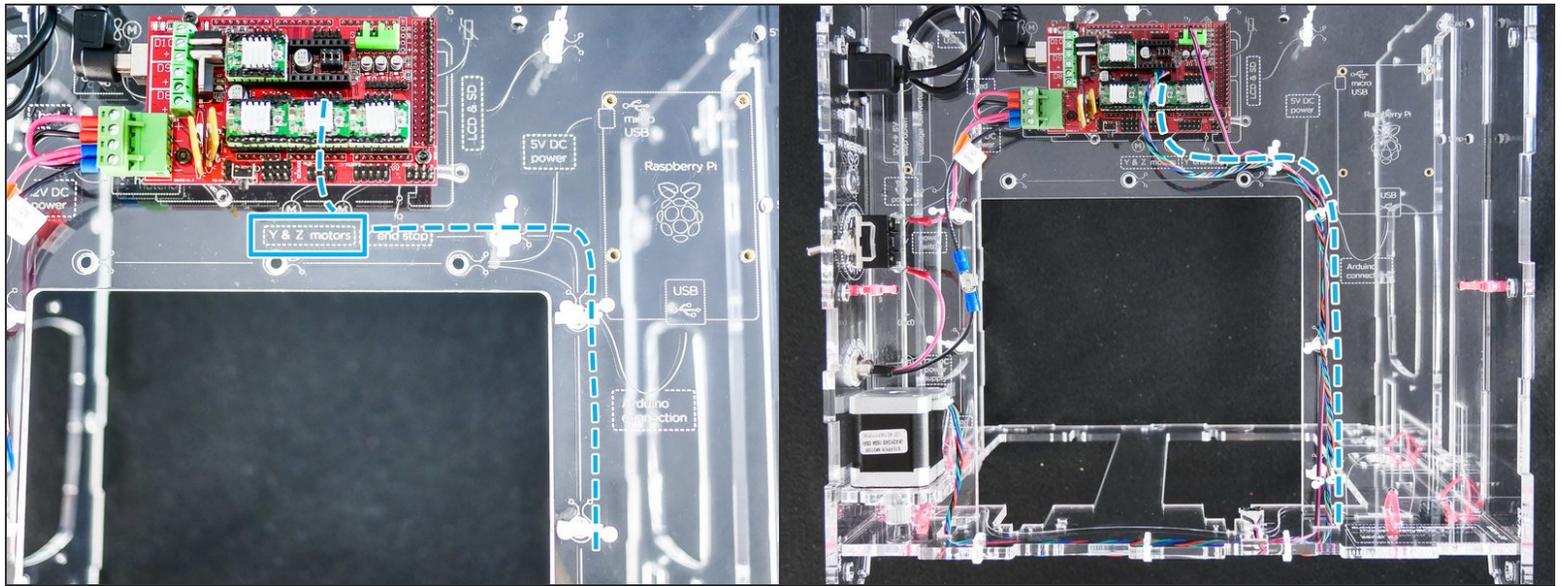
Step 26



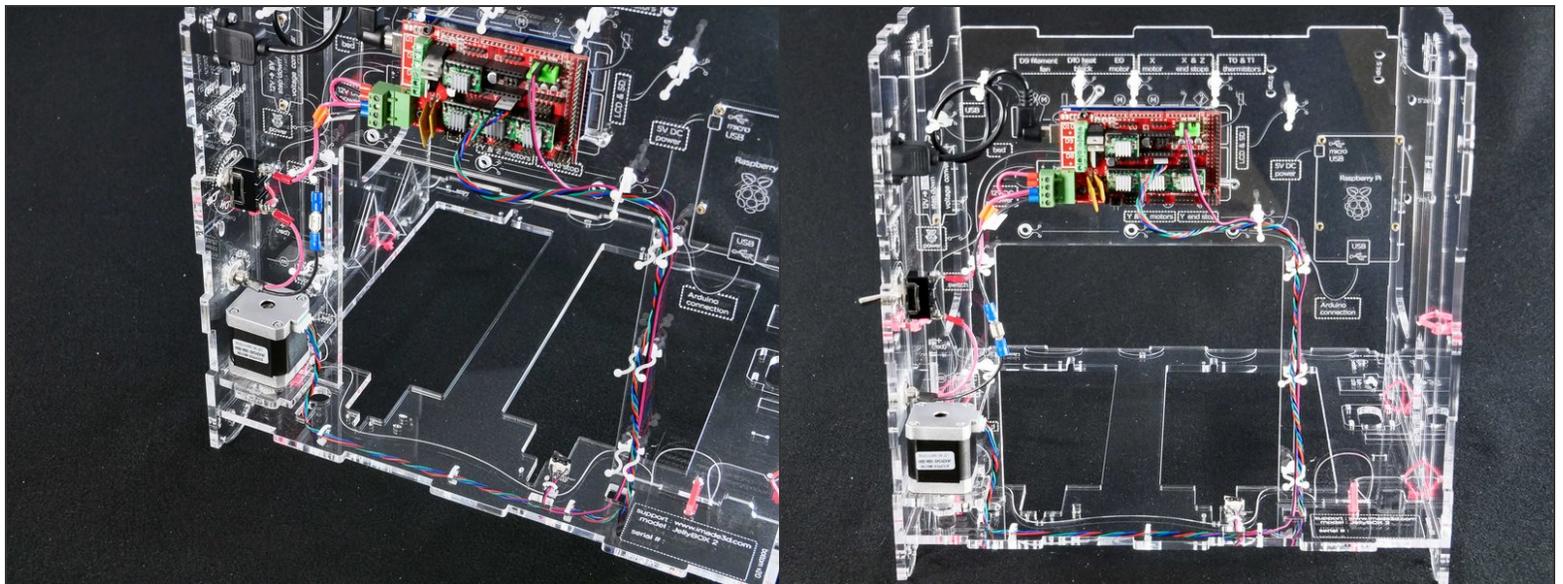
Step 27



Step 28



Step 29 — Looking good!

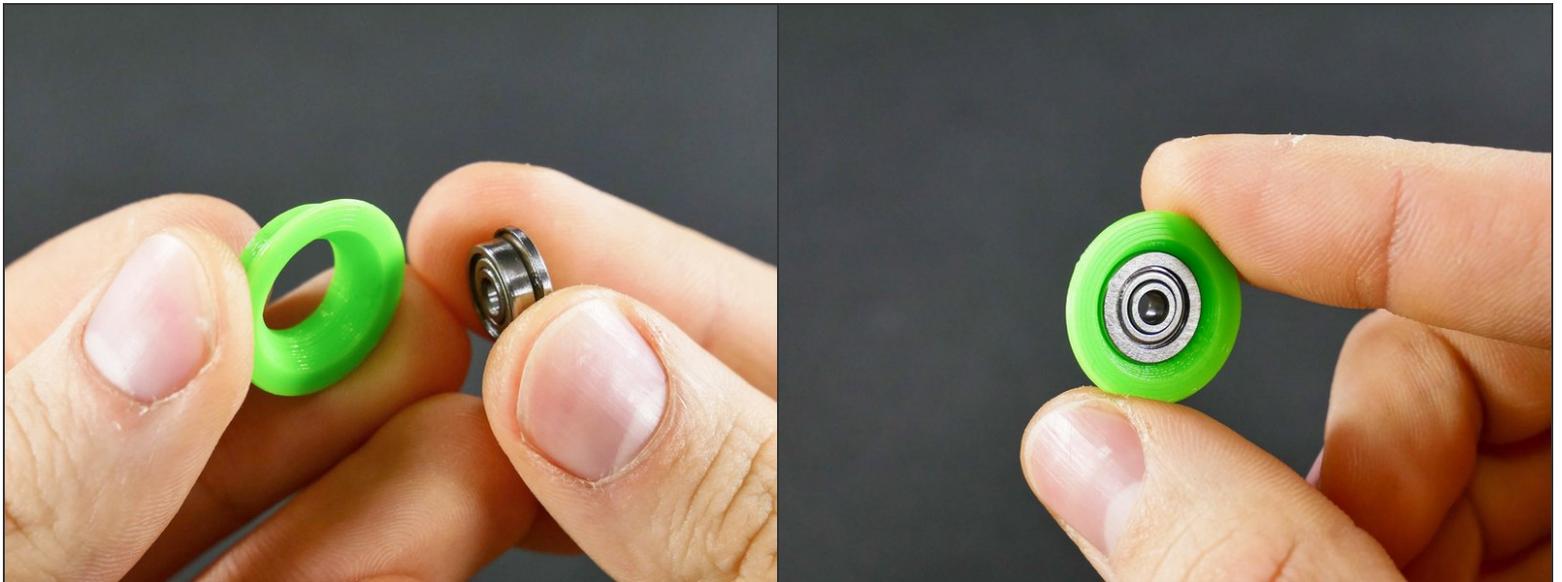


Step 30 — ↳ Prep an Idler

<p>M3 'nylock' locking nut</p> 	<p>M3 oversized washer</p> 	<p>M3 serrated washer</p> 	<p>socket head screw M2x12</p>  <p>12mm</p>	<p>M3 plastite screw</p> 
<p>flat head screw M3x8</p>  <p>8mm</p>	<p>flat head screw M3x10</p>  <p>10mm</p>	<p>flat head screw M3x25</p>  <p>25mm</p>	<p>socket head screw M3x10</p>  <p>10mm</p>	<p>socket head screw M3x12</p>  <p>12mm</p>
<p>socket head screw M3x16</p>  <p>16mm</p>	<p>socket head screw M3x25</p>  <p>25mm</p>	<p>socket head screw M3x30</p>  <p>30mm</p>	<p>socket head screw M3x45</p>  <p>45mm</p>	<p>socket head screw M3x60</p>  <p>60mm</p>
<p>idlers</p> 	<p>2*</p>	<p>feeder</p> 	<p>electronics 'dogbone' stand-offs</p> 	<p>spare parts</p> 



Step 31



Step 32



Step 33

<p>M3 'nylock' locking nut</p>	<p>M3 oversized washer</p>	<p>M3 serrated washer</p>	<p>socket head screw M2x12 12mm</p>	<p>M3 plastite screw</p>
<p>flat head screw M3x8 8mm</p>	<p>flat head screw 1*</p>	<p>flat head screw M3x25 25mm</p>	<p>socket head screw M3x10 10mm</p>	<p>socket head screw M3x12 12mm</p>
<p>socket head screw 1*</p>	<p>socket head screw M3x25 25mm</p>	<p>socket head screw M3x30 30mm</p>	<p>socket head screw M3x45 45mm</p>	<p>socket head screw M3x60 60mm</p>
<p>idlers</p>	<p>Y-assembly</p>	<p>feeder</p>	<p>electronics 'dogbone' stand-offs</p>	<p>spare parts</p>

Step 34



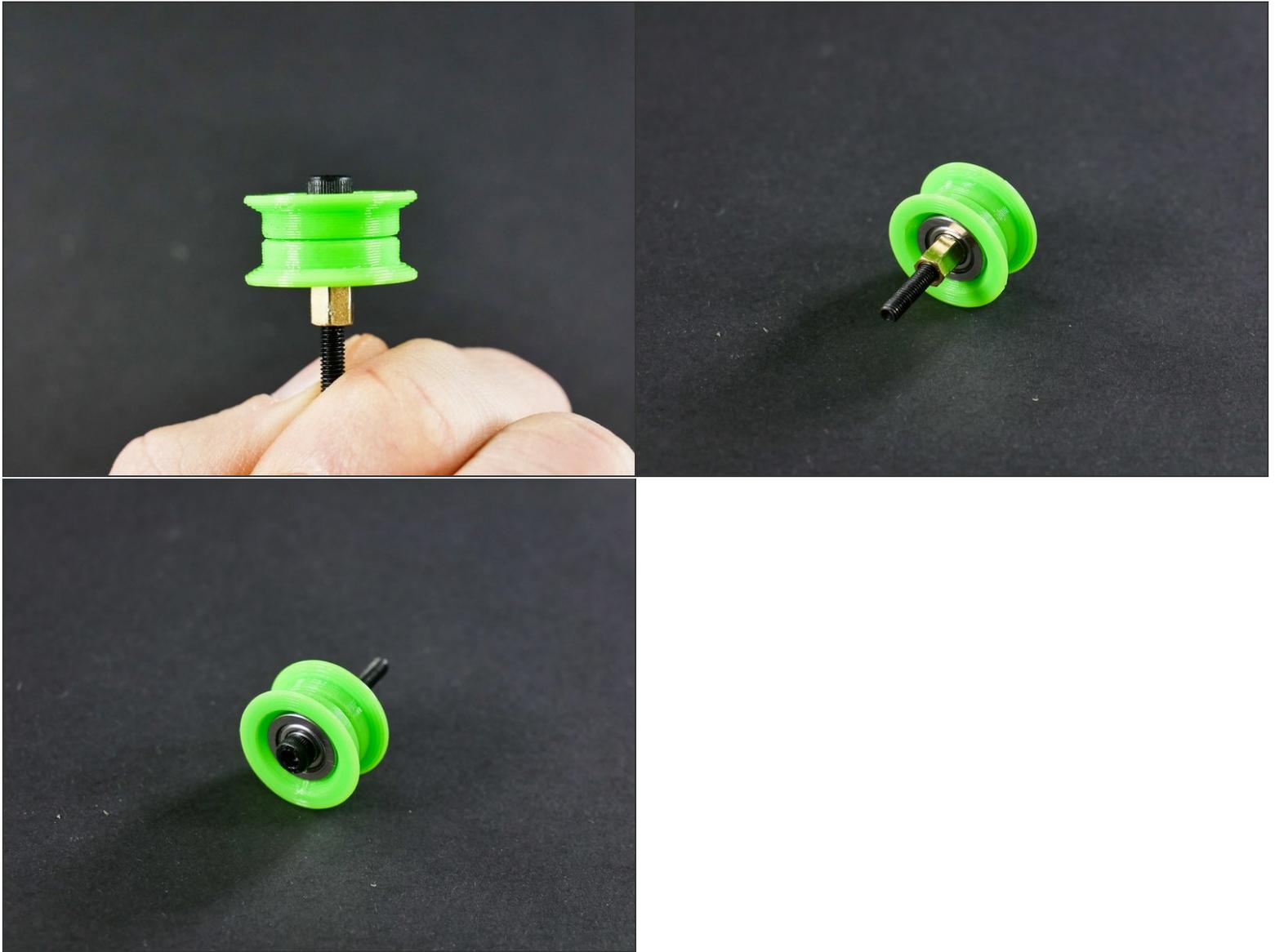
Step 35



Step 36

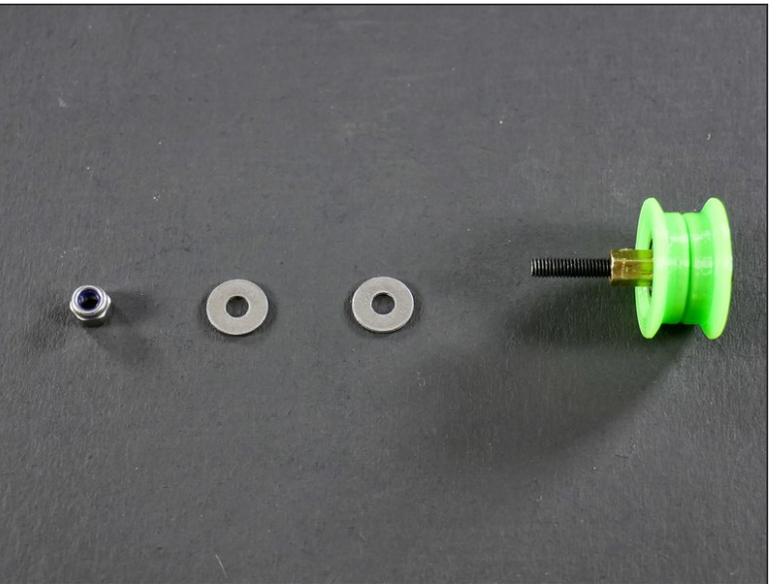
- Tighten well.
- This is metal-on-metal tightening, so you do not have to be as gentle as usual.

Step 37 — Looking good!



Step 38 — ↪ Install the Y Idler

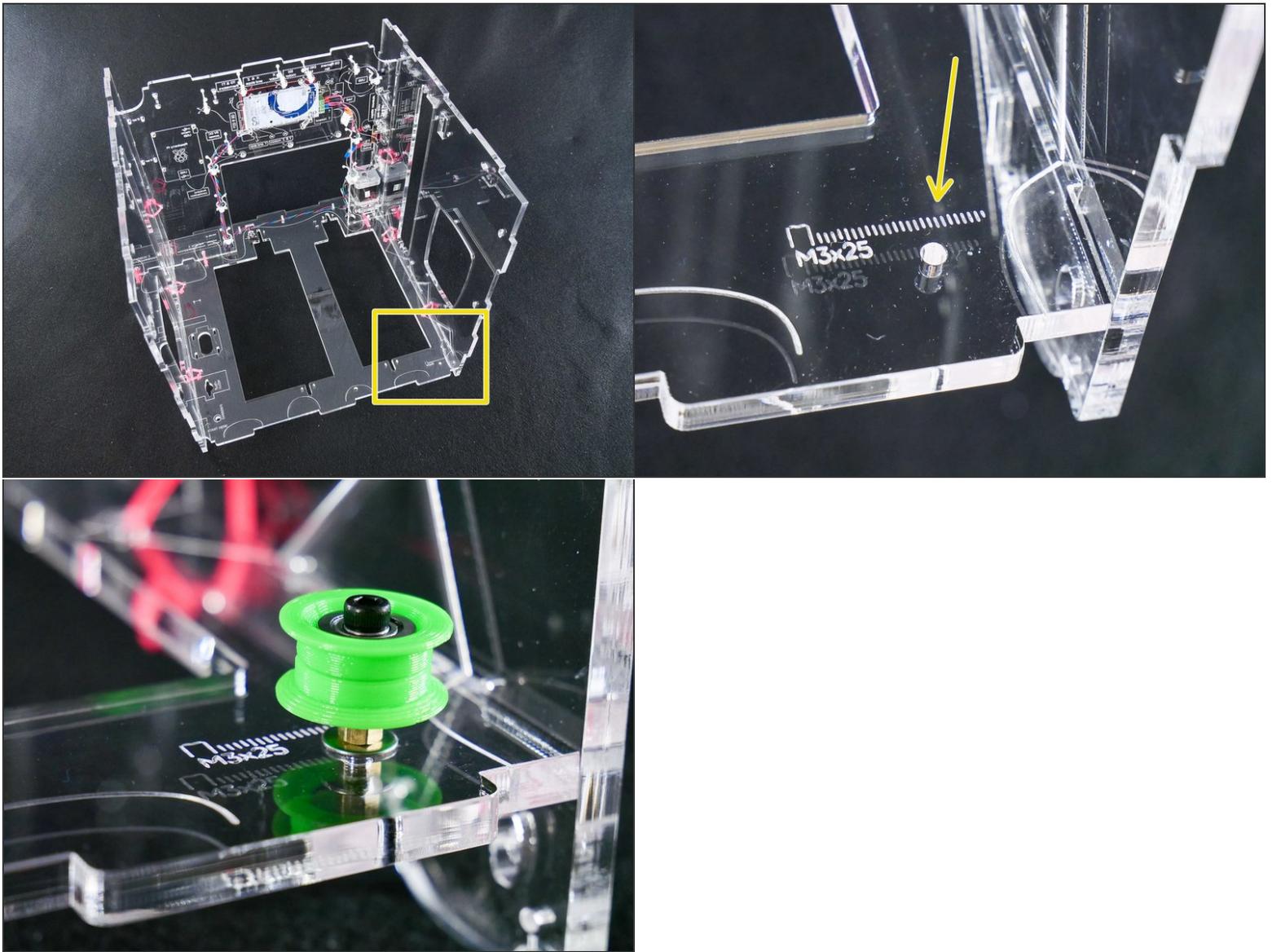
<p>M3 'nylock' locking nut</p> 	<p>M3 oversized washer</p> 	<p>2*</p>	<p>socket head screw M2x12</p>  <p>12mm</p>	<p>M3 plastite screw</p> 
<p>1*</p>	<p>flat head screw M3x10</p>  <p>10mm</p>	<p>flat head screw M3x25</p>  <p>25mm</p>	<p>socket head screw M3x10</p>  <p>10mm</p>	<p>socket head screw M3x12</p>  <p>12mm</p>
<p>socket head screw M3x16</p>  <p>16mm</p>	<p>socket head screw M3x25</p>  <p>25mm</p>	<p>socket head screw M3x30</p>  <p>30mm</p>	<p>socket head screw M3x45</p>  <p>45mm</p>	<p>socket head screw M3x60</p>  <p>60mm</p>
<p>idlers</p> 	<p>Y-assembly</p> 	<p>feeder</p> 	<p>electronics 'dogbone' stand-offs</p> 	<p>spare parts</p> 



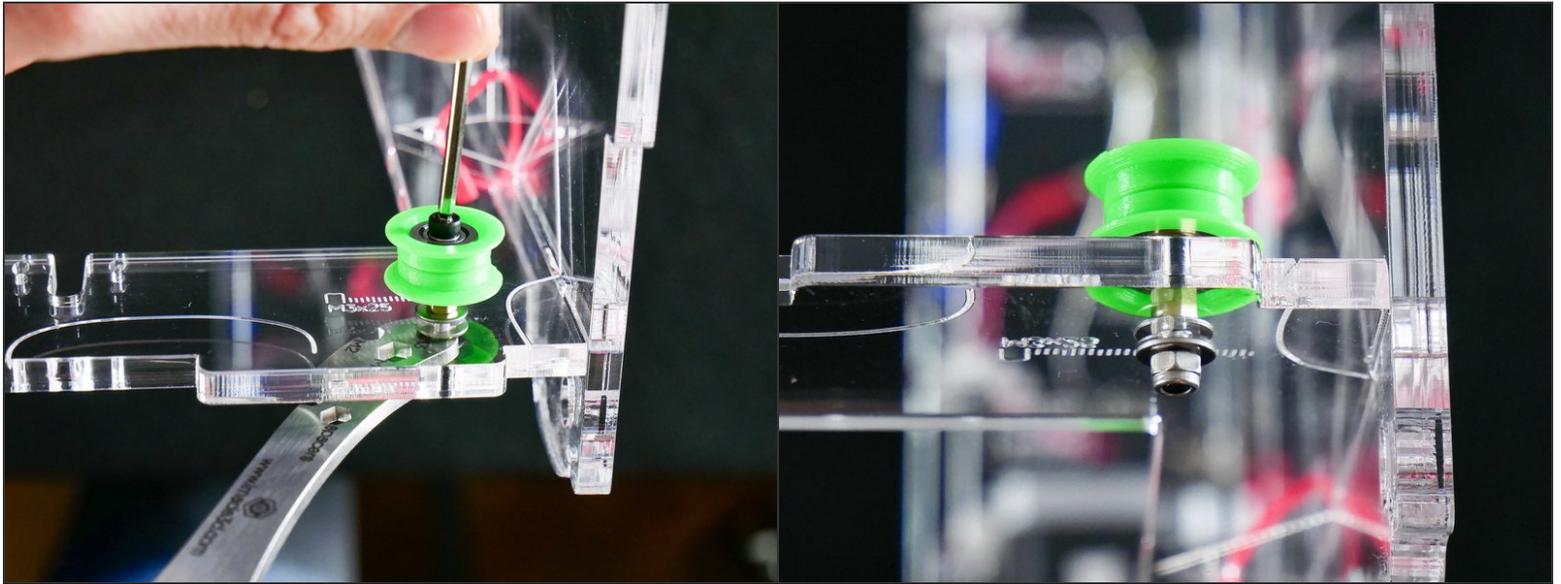
Step 39



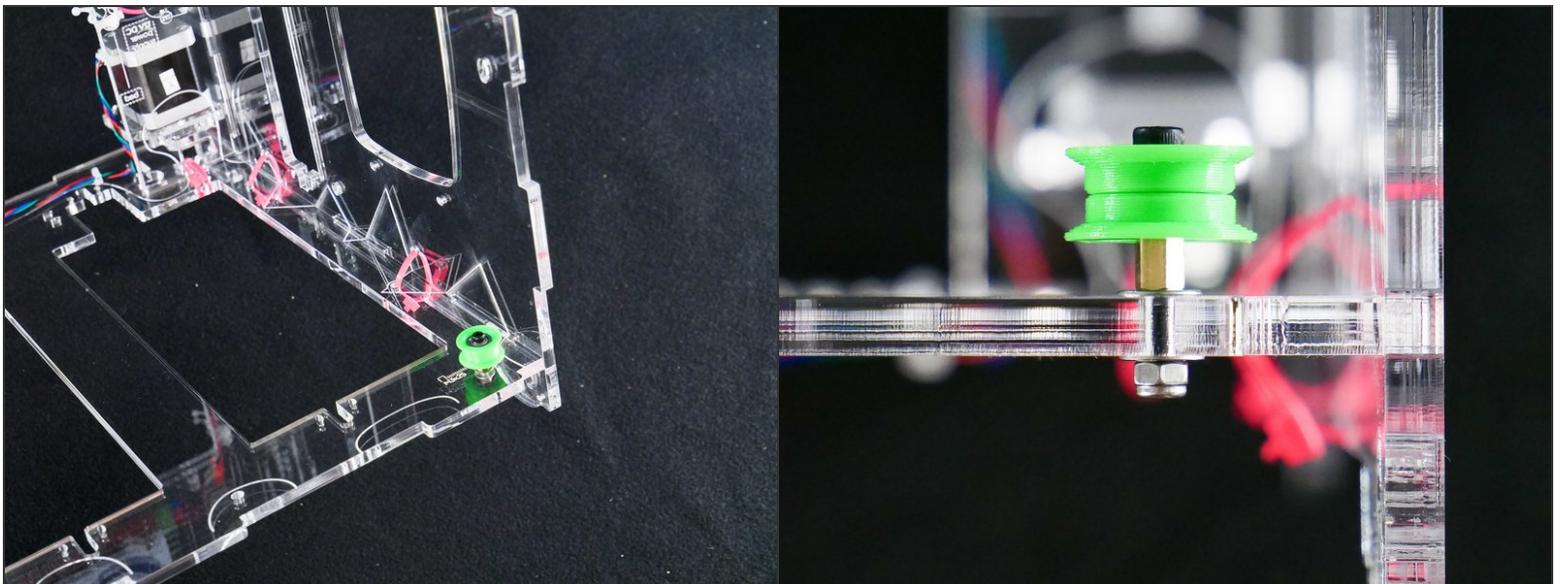
Step 40



Step 41



Step 42 — Looking good!



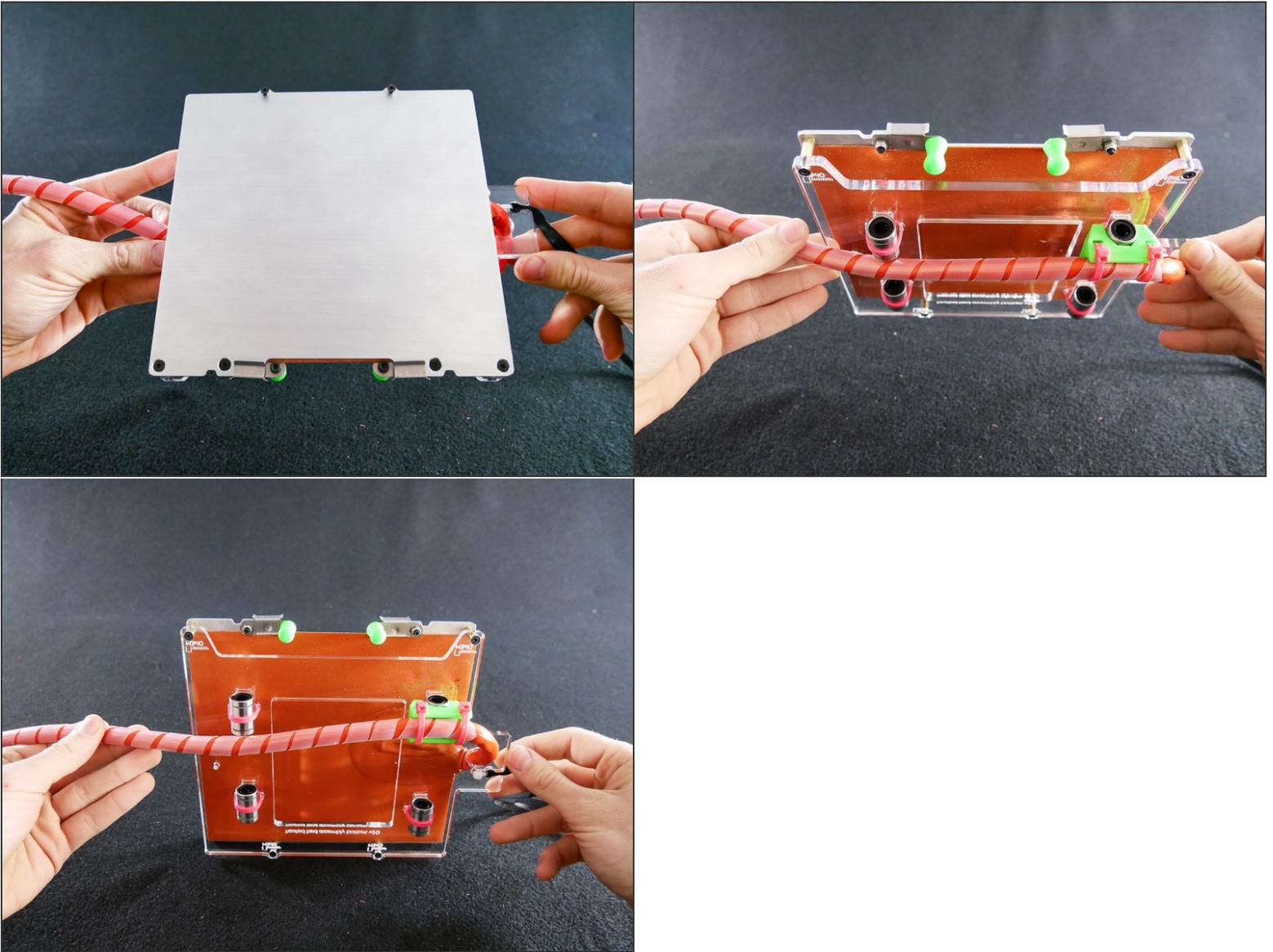
Step 43 — ↪ Insert the Heated Y Assembly



Step 44



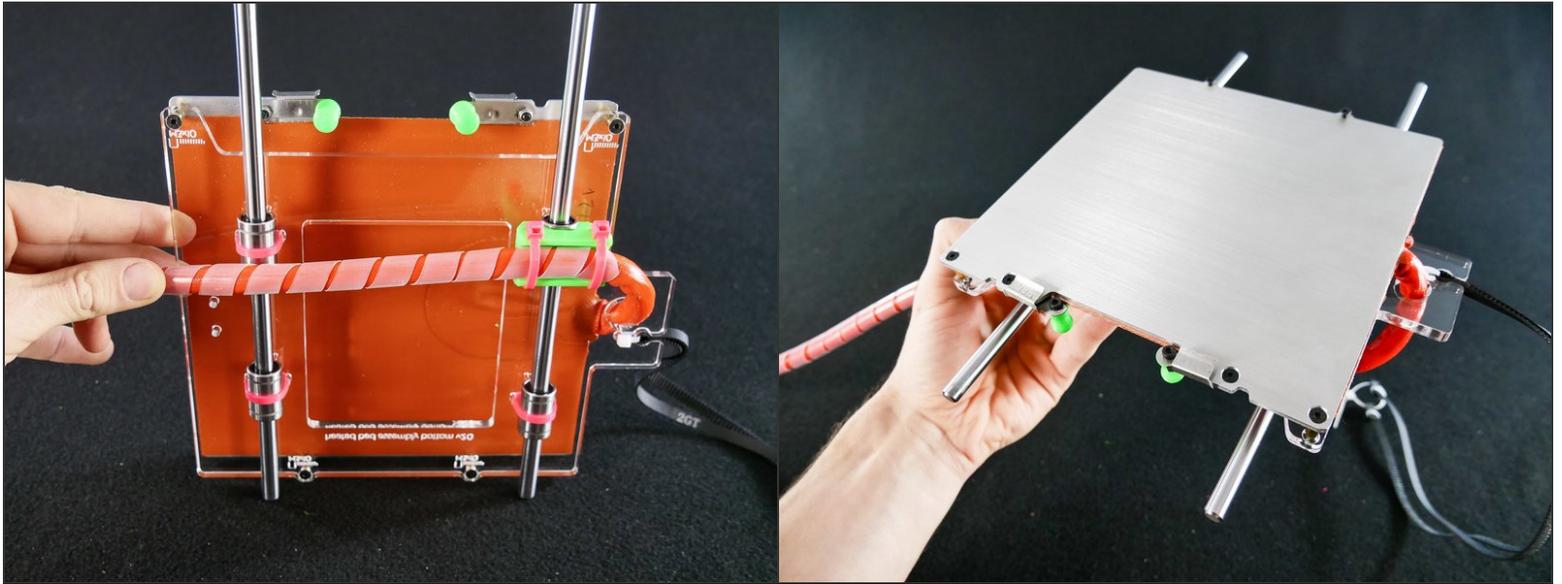
Step 45



Step 46

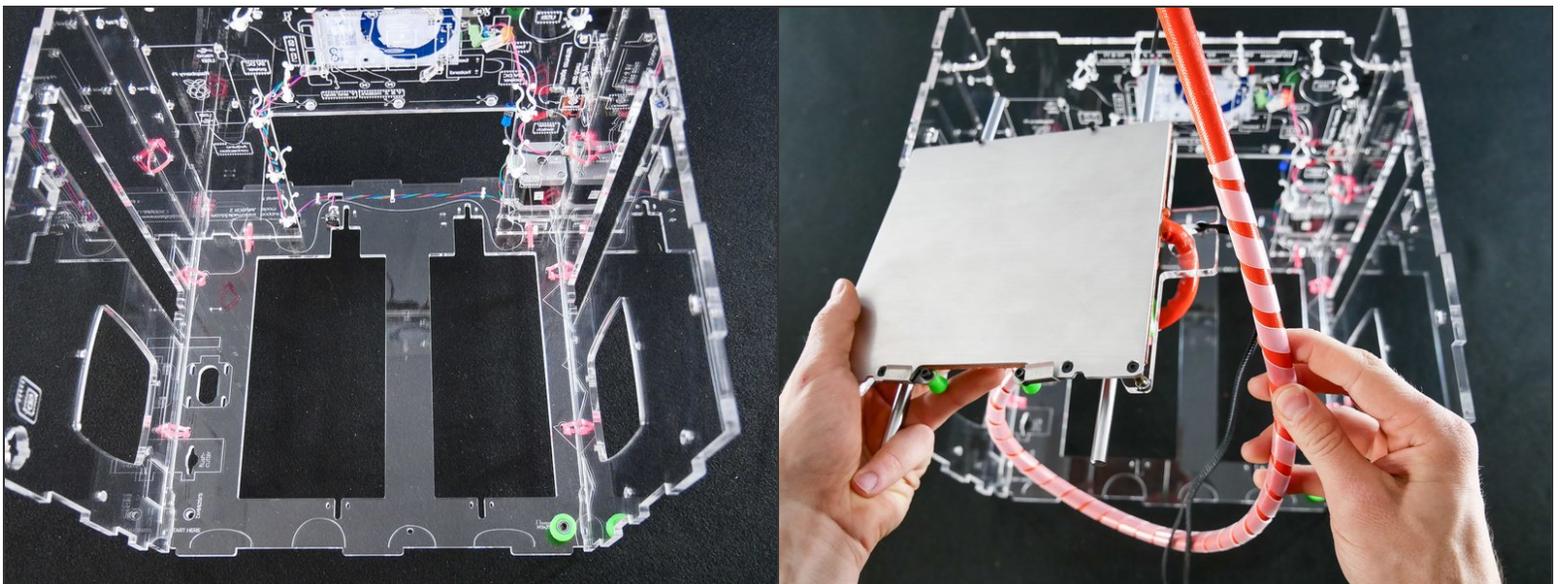
⚠ Be gentle. Do not force the rods and keep them straight or you may damage the ball bearing by knocking some balls out.

Step 47

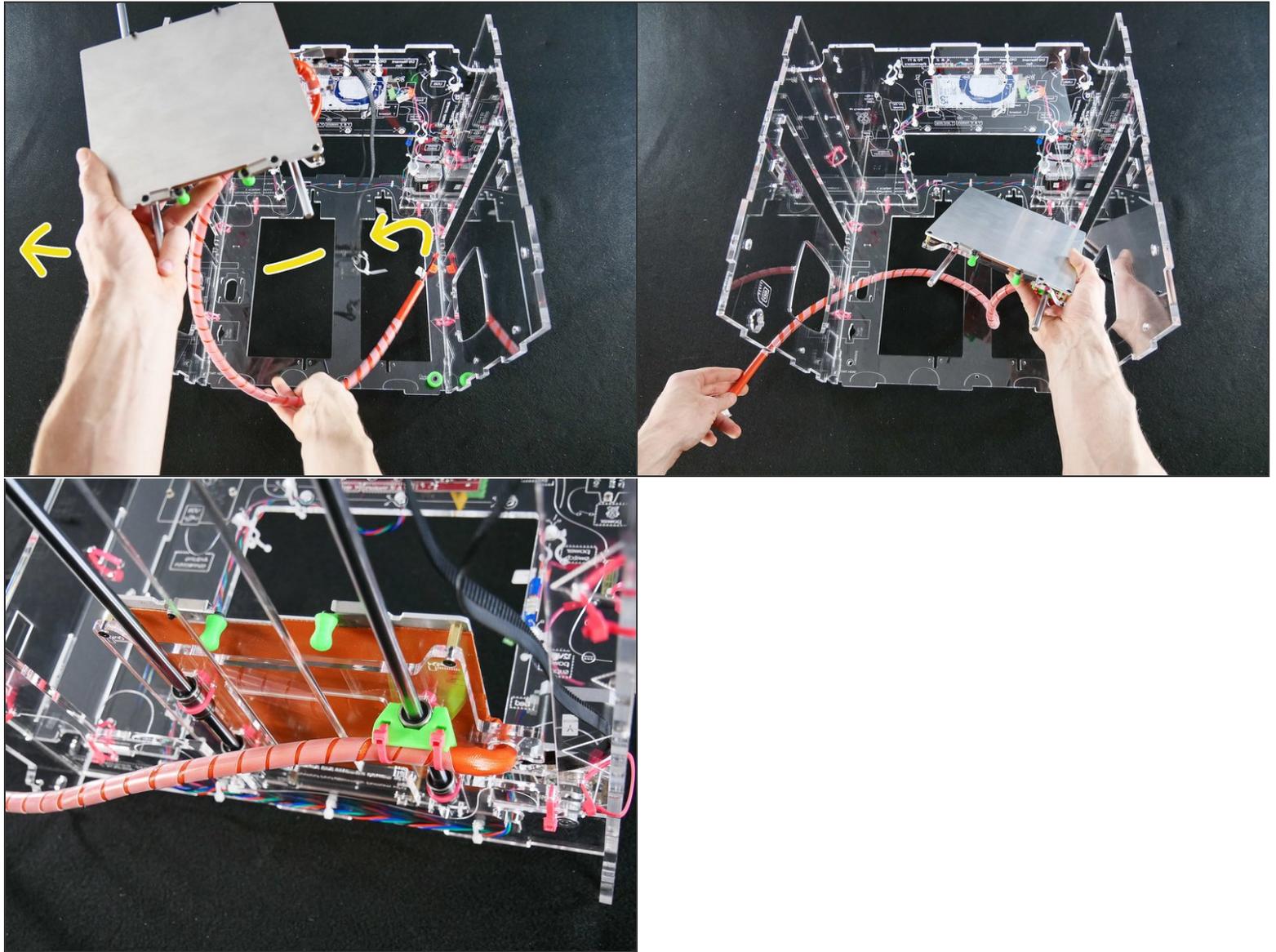


- Check ✓

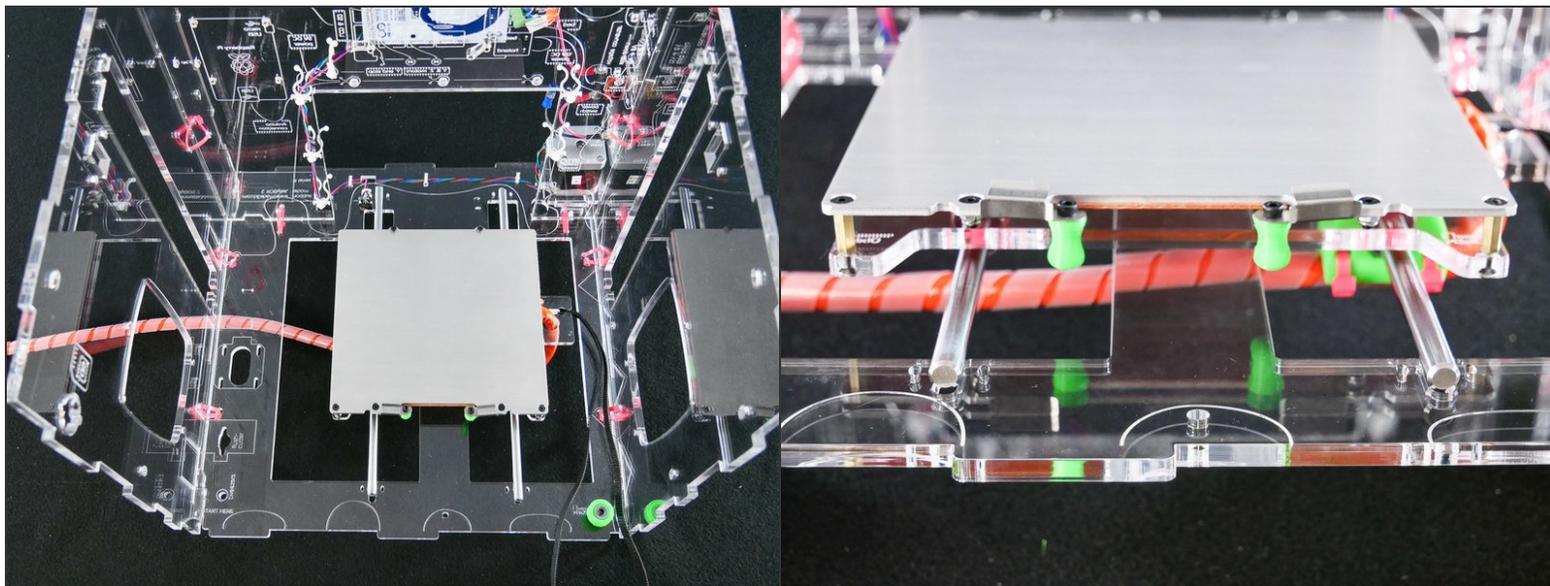
Step 48



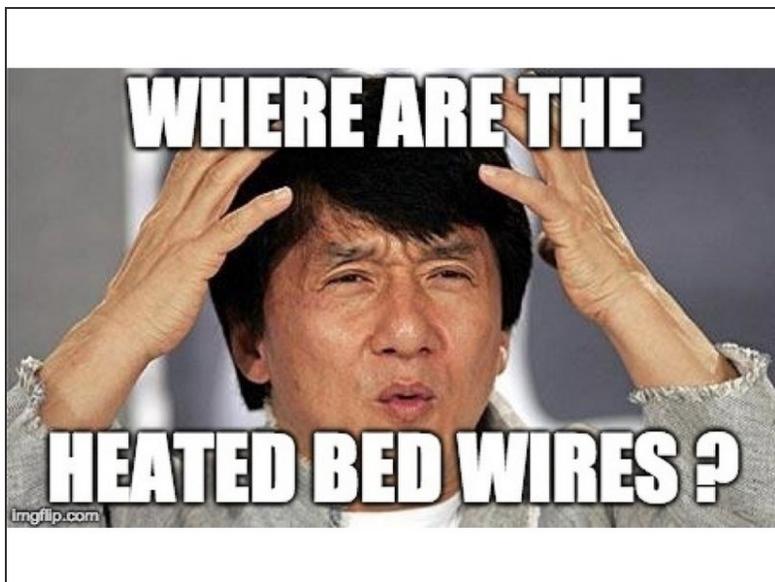
Step 49



Step 50

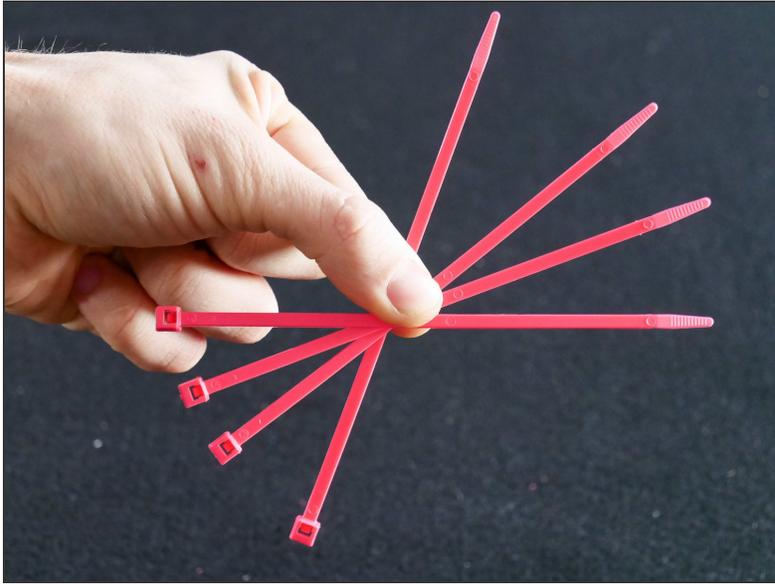


Step 51

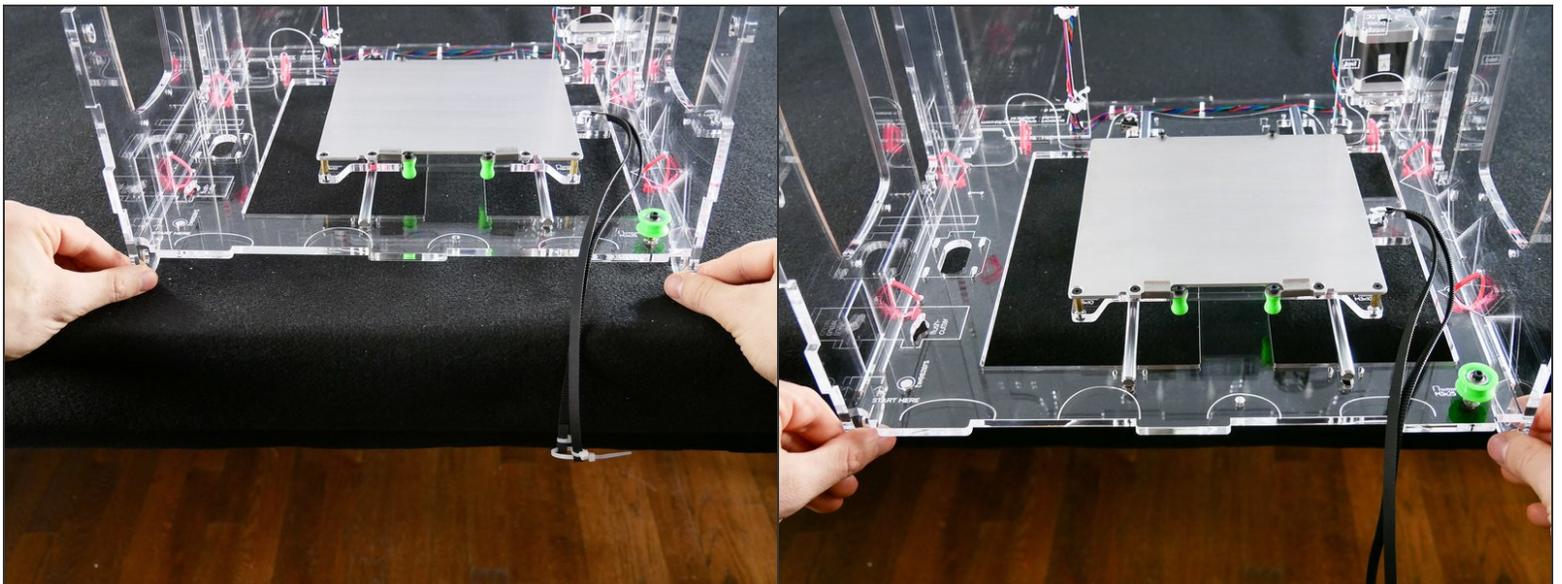


! The photos until the end of the guide mostly feature *cold bed*. This means you will often not see the bed wires. Don't worry. Any time the **heated bed** instructions differ, it will be noted.

Step 52

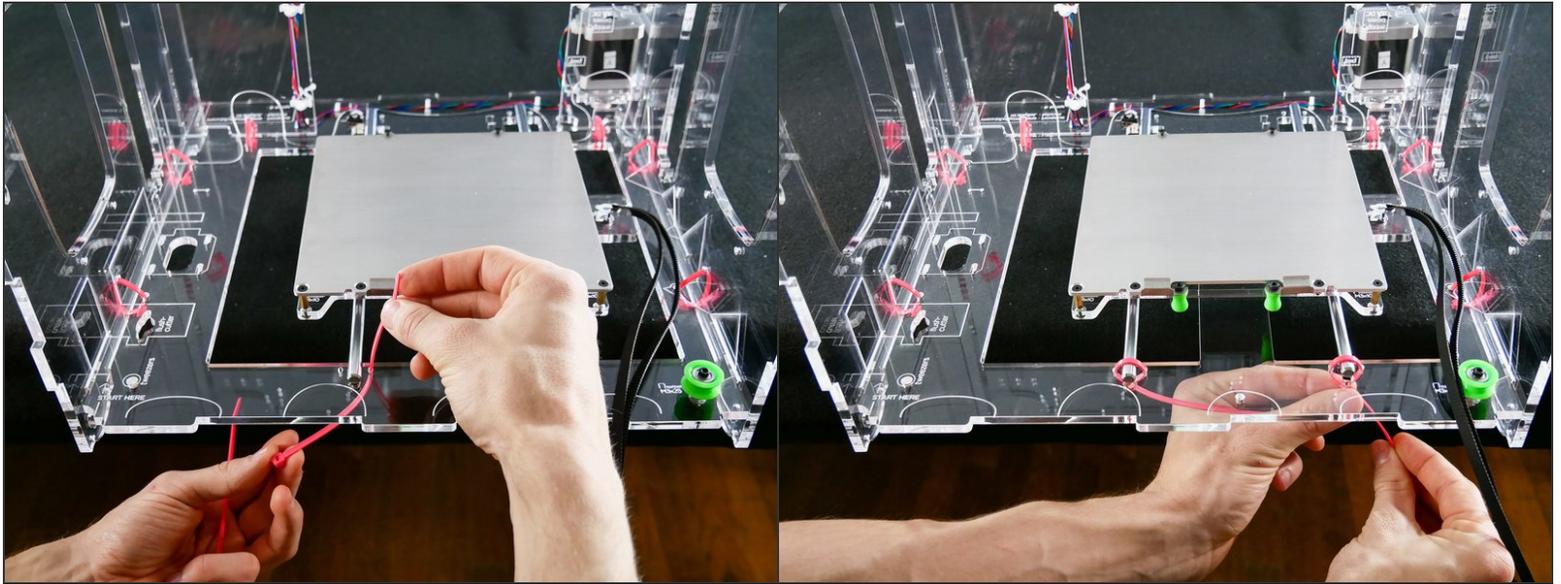


Step 53

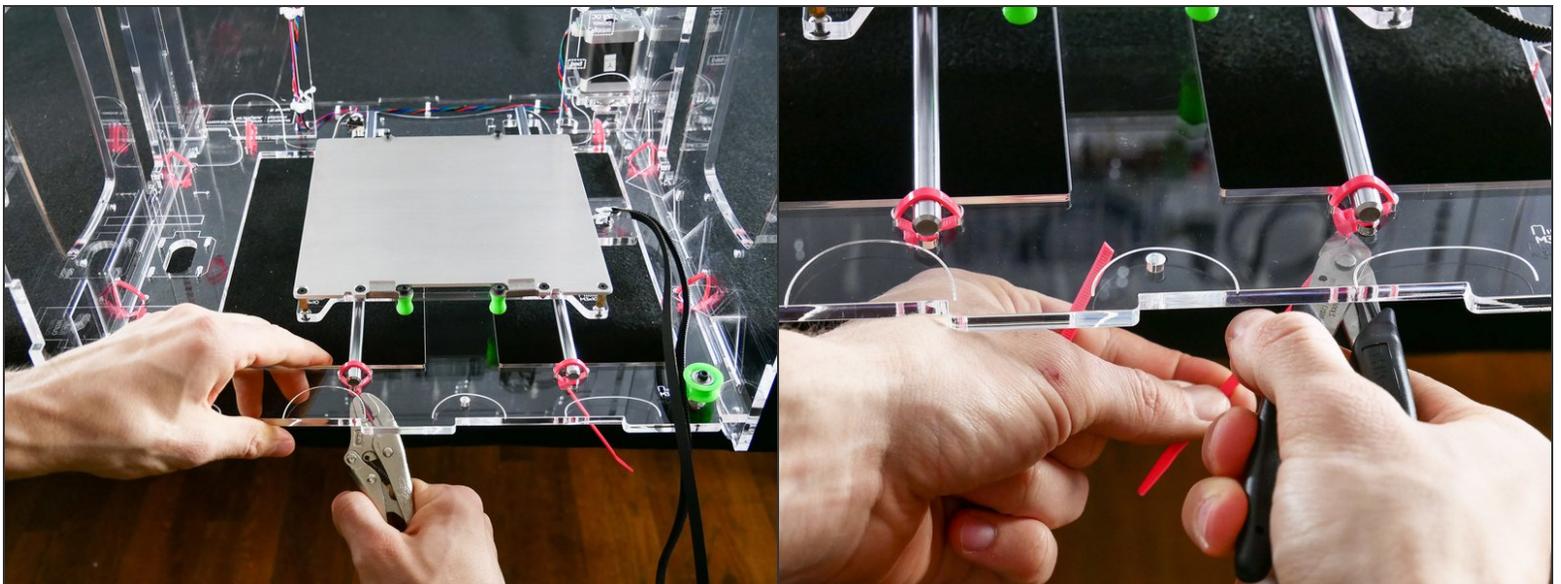


- Place your JellyBOX over the edge of a table.

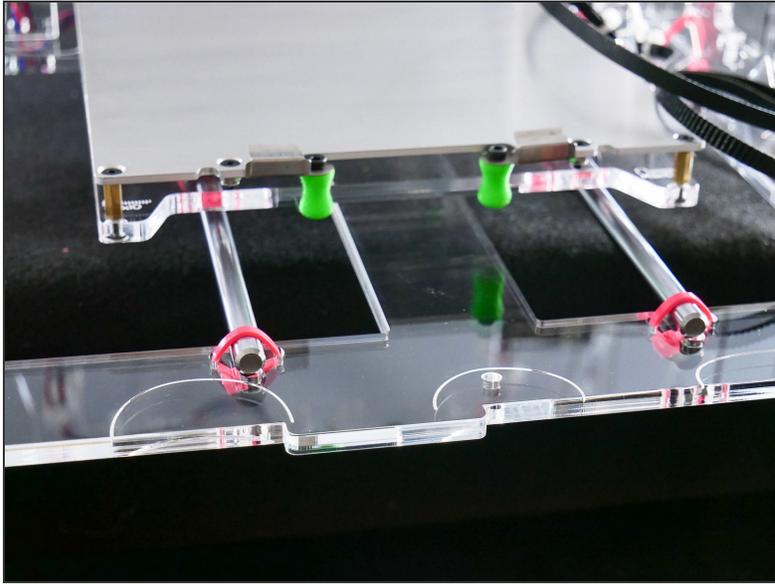
Step 54



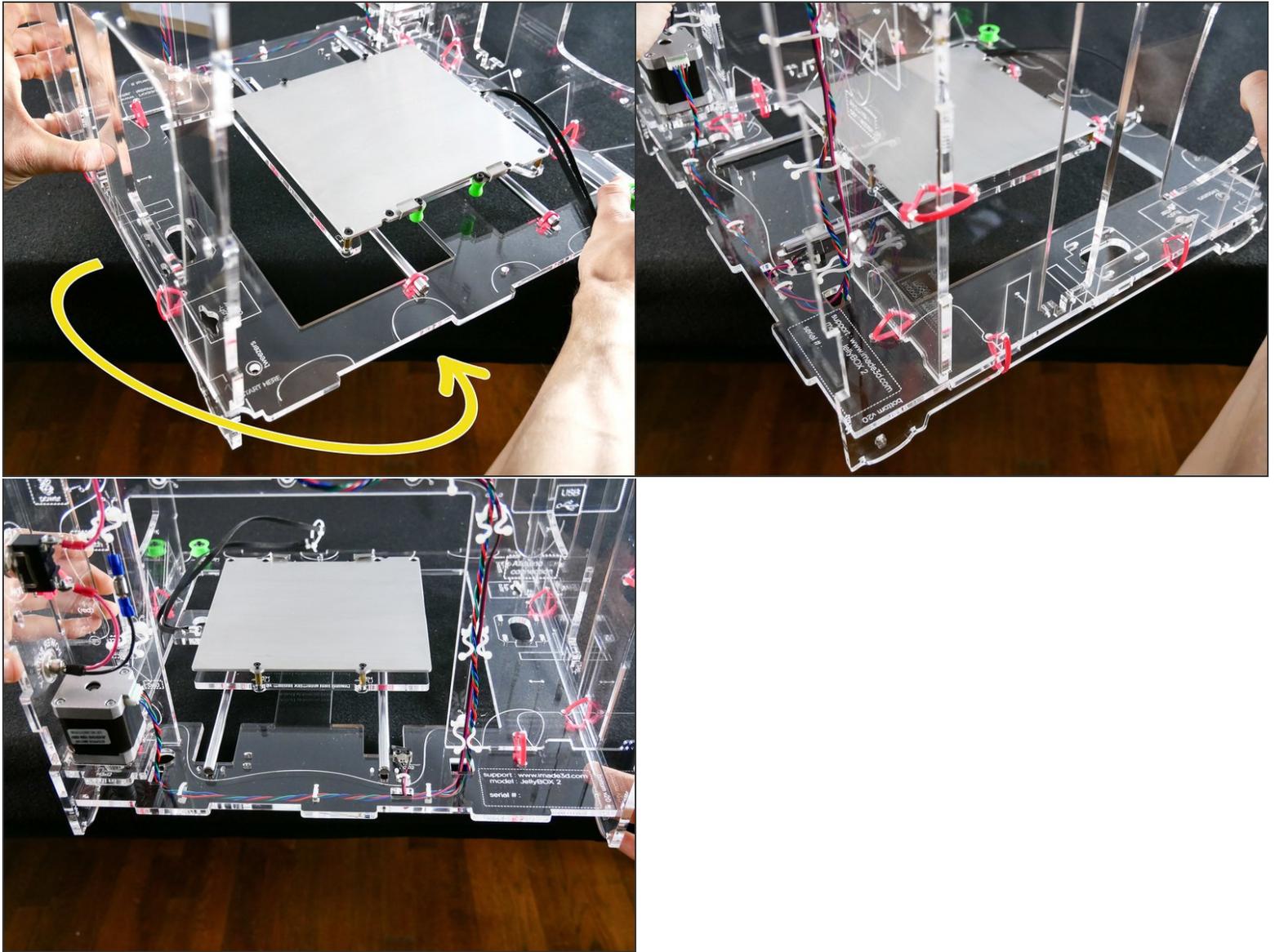
Step 55



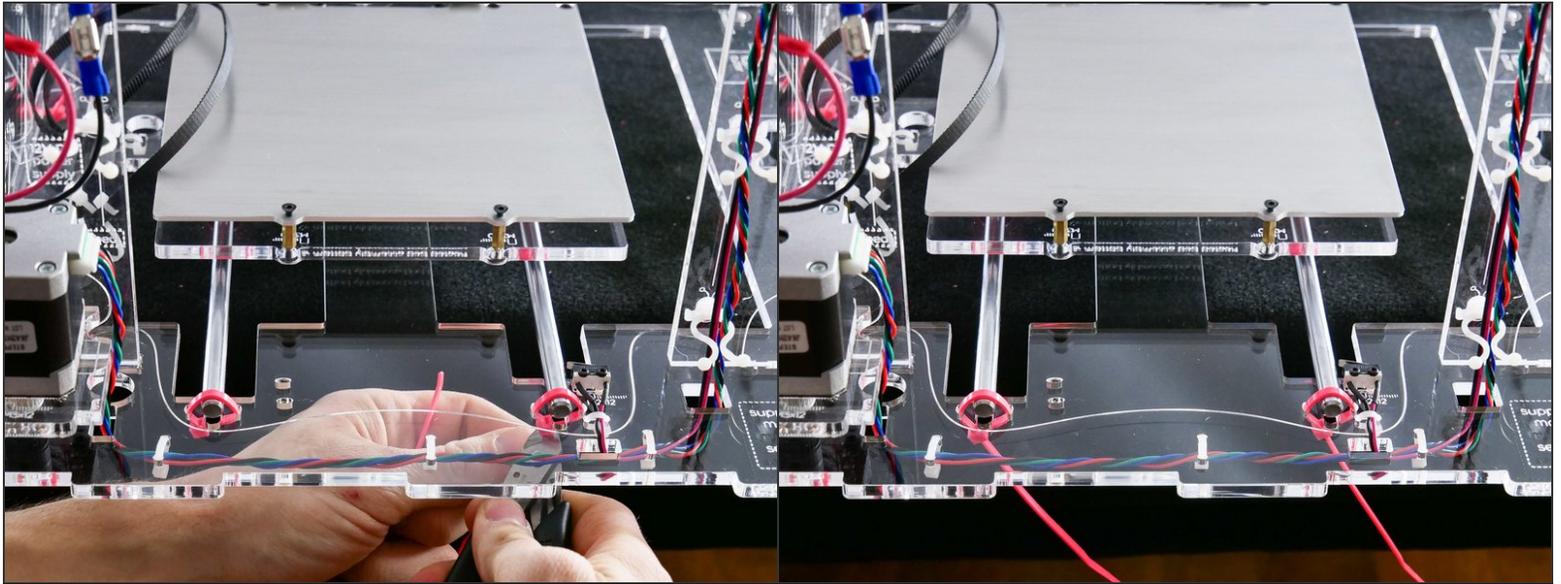
Step 56



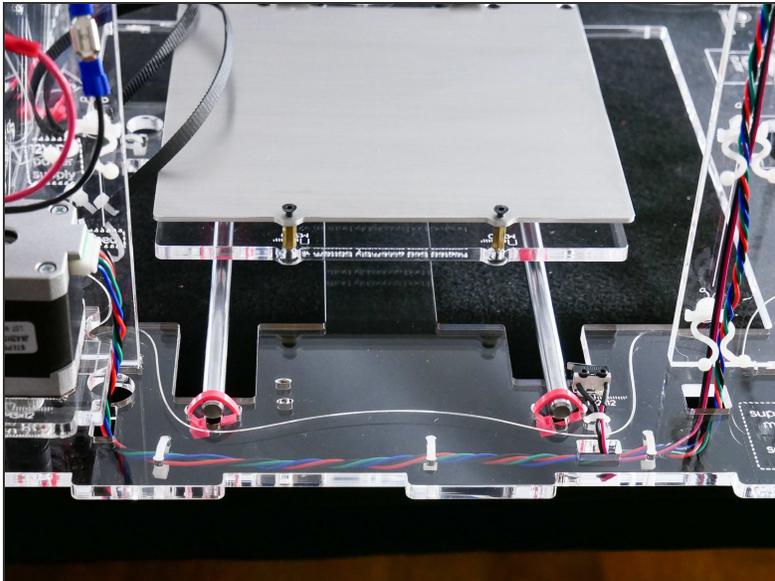
Step 57



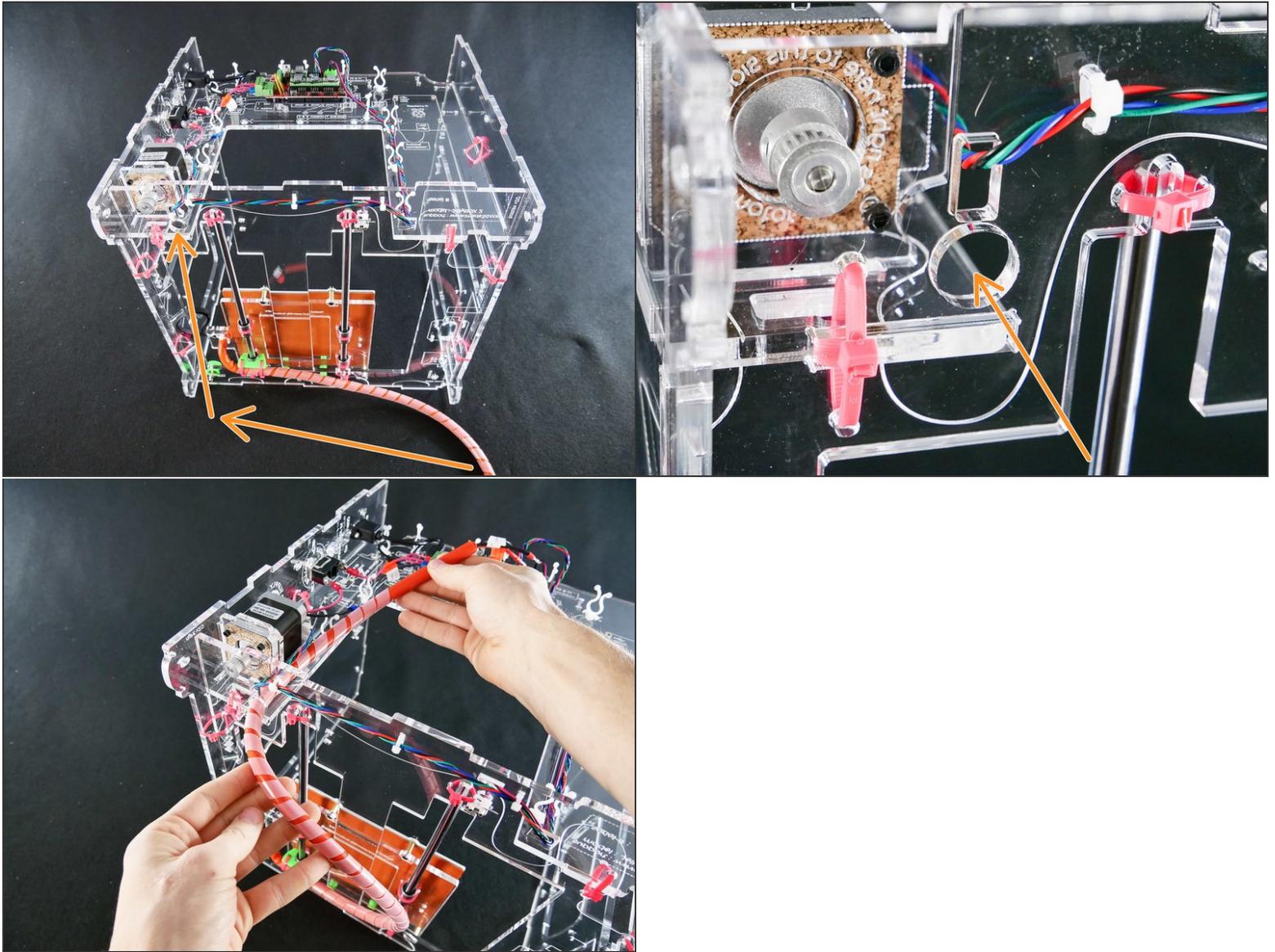
Step 58



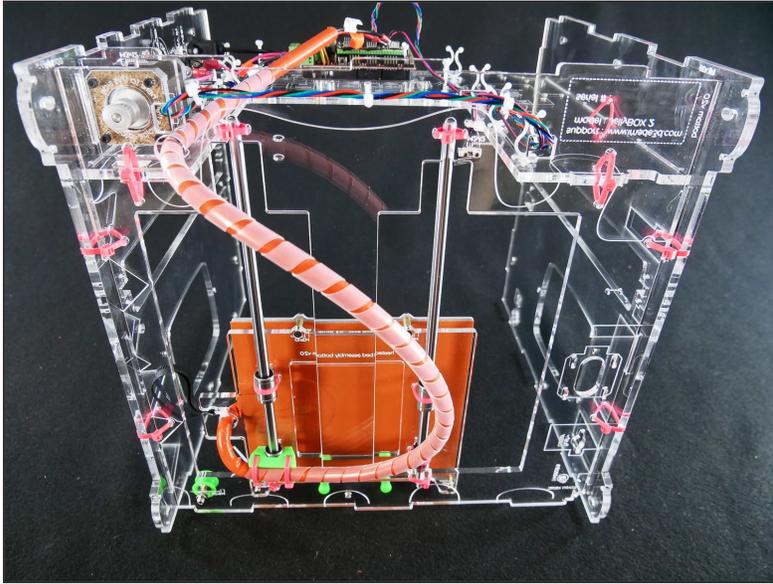
Step 59 — Looking good!



Step 60 — ↳ Wire up the Heated Y Assembly

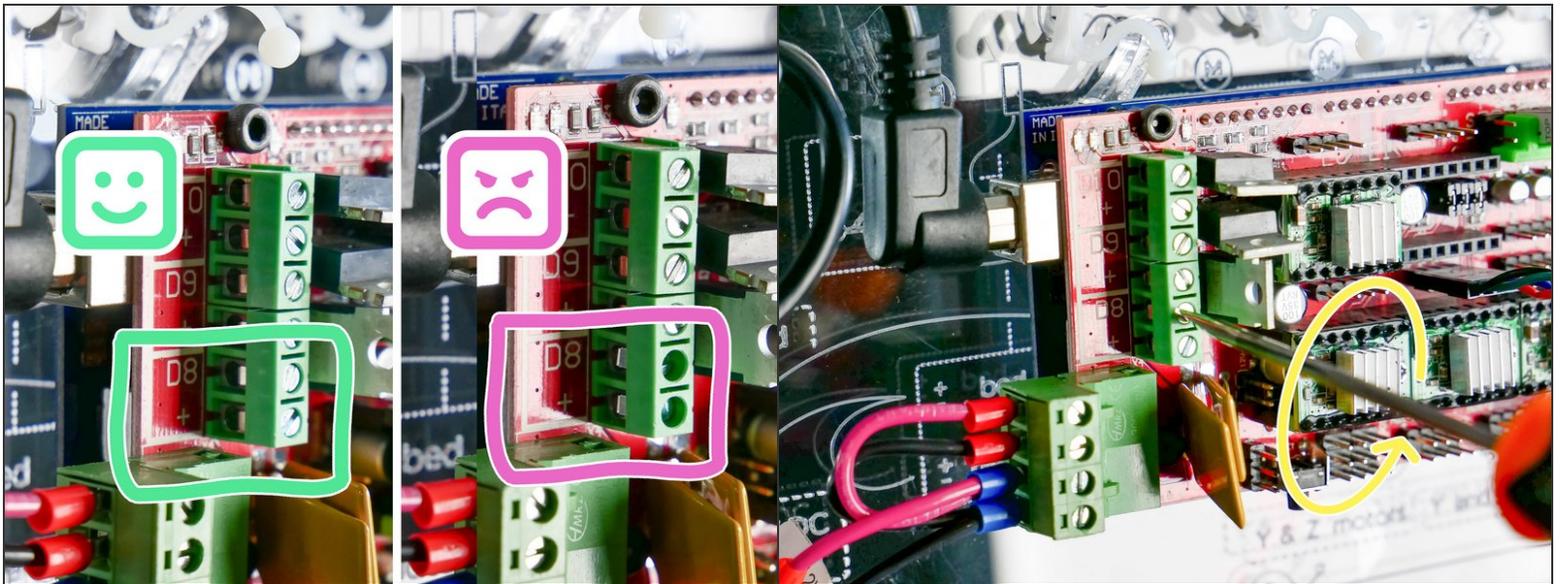


Step 61



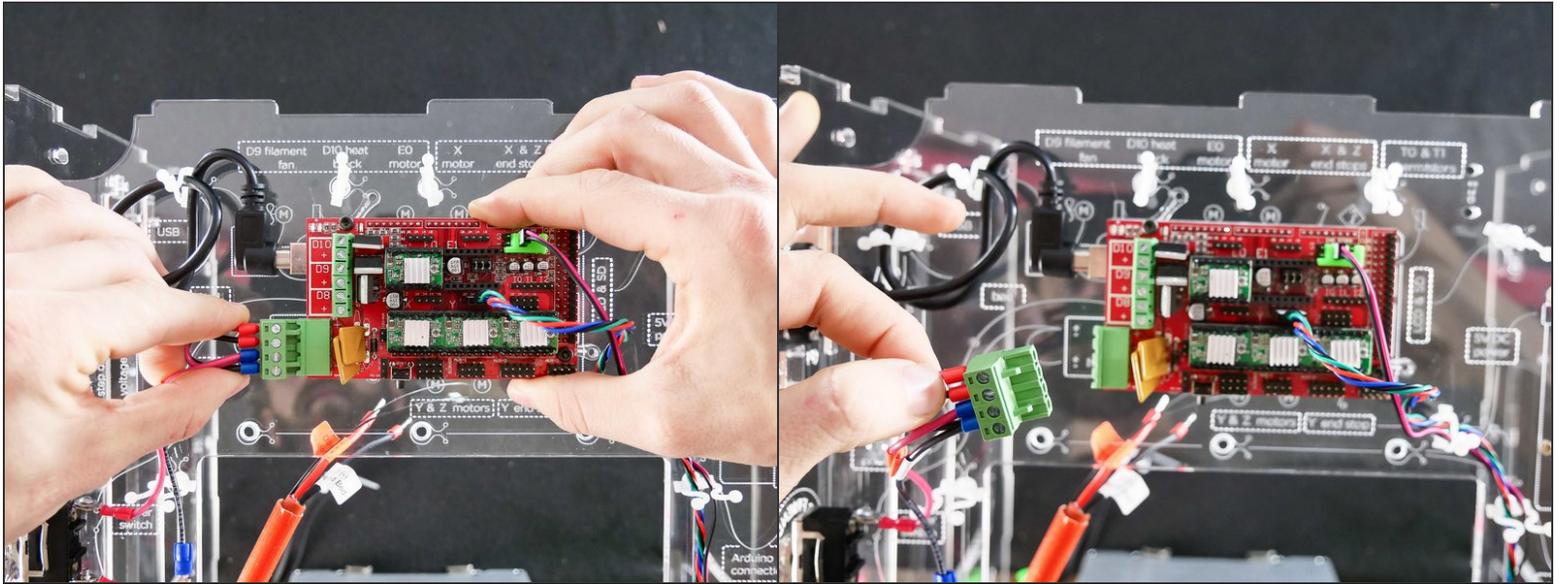
- Check ✓

Step 62



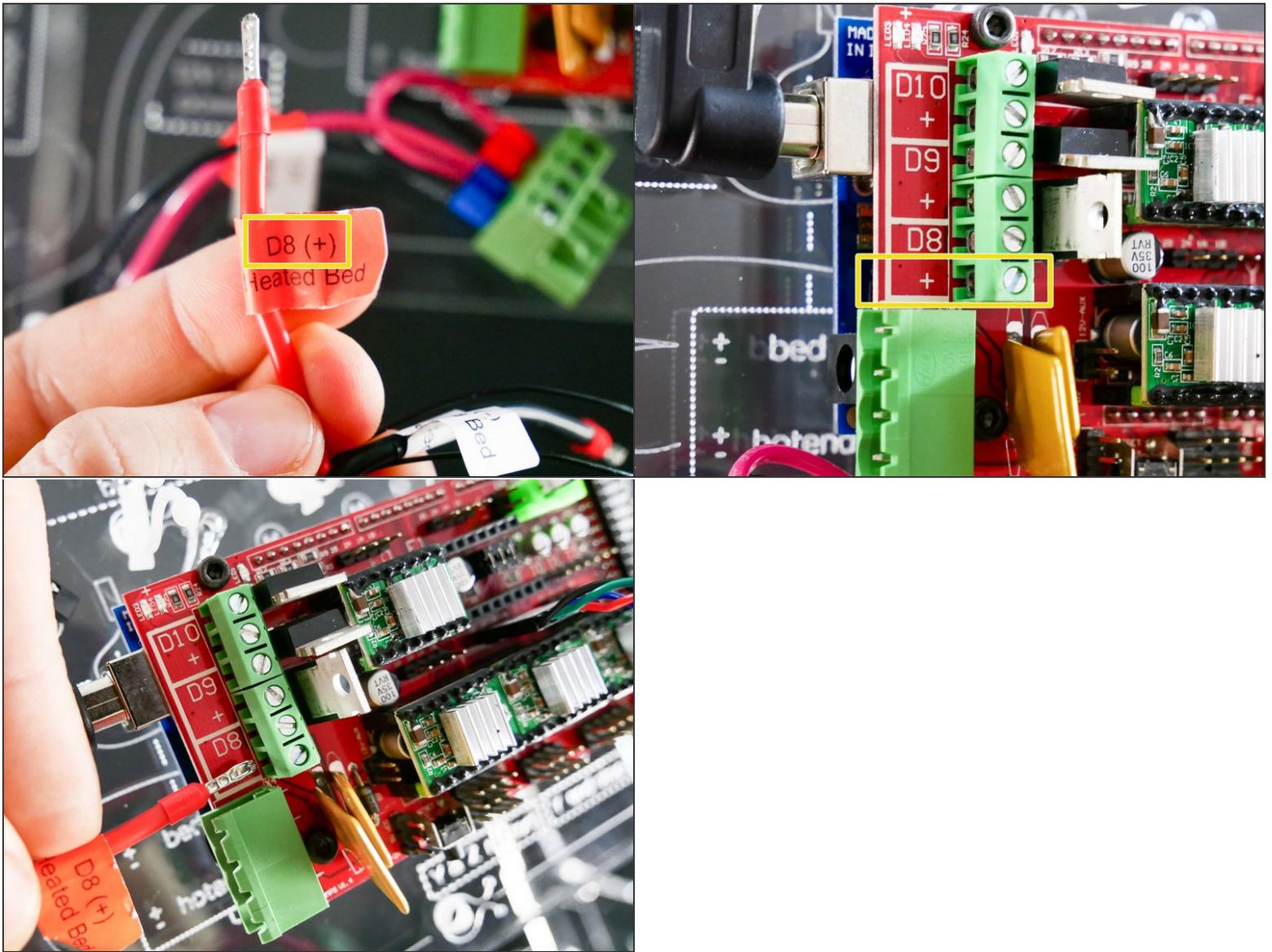
⚠ Fully loosen up the D8 screws.

Step 63



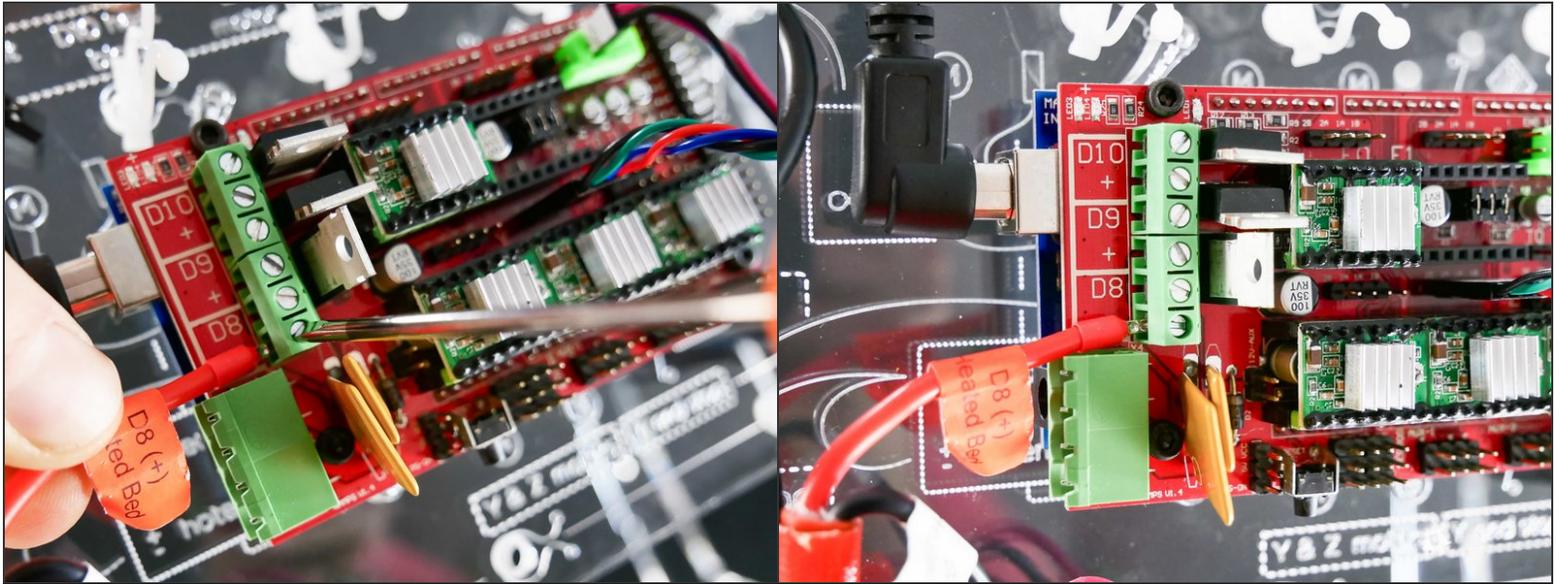
- Disconnect the power wires.

Step 64



 Plus goes to plus!

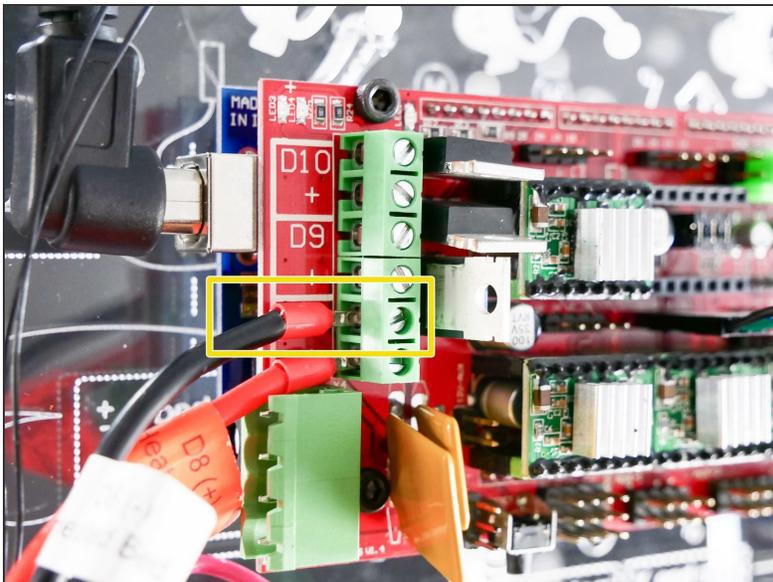
Step 65



⚠️ Tighten well.

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

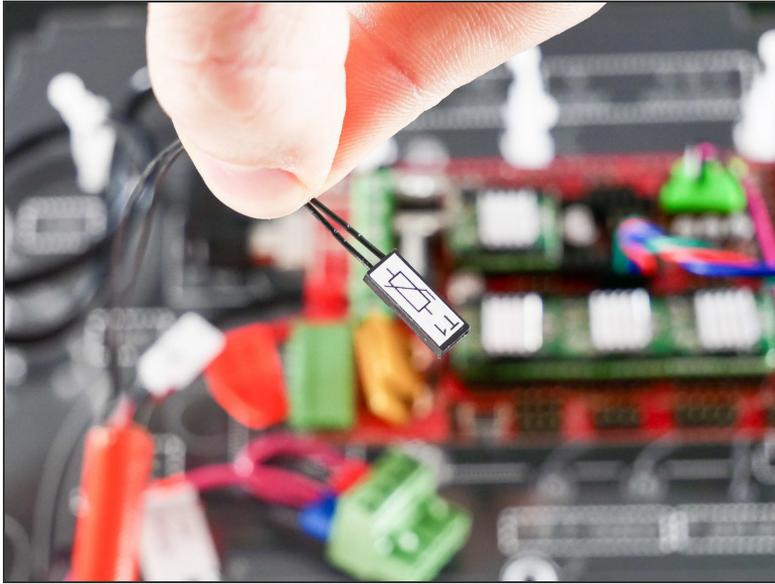
Step 66



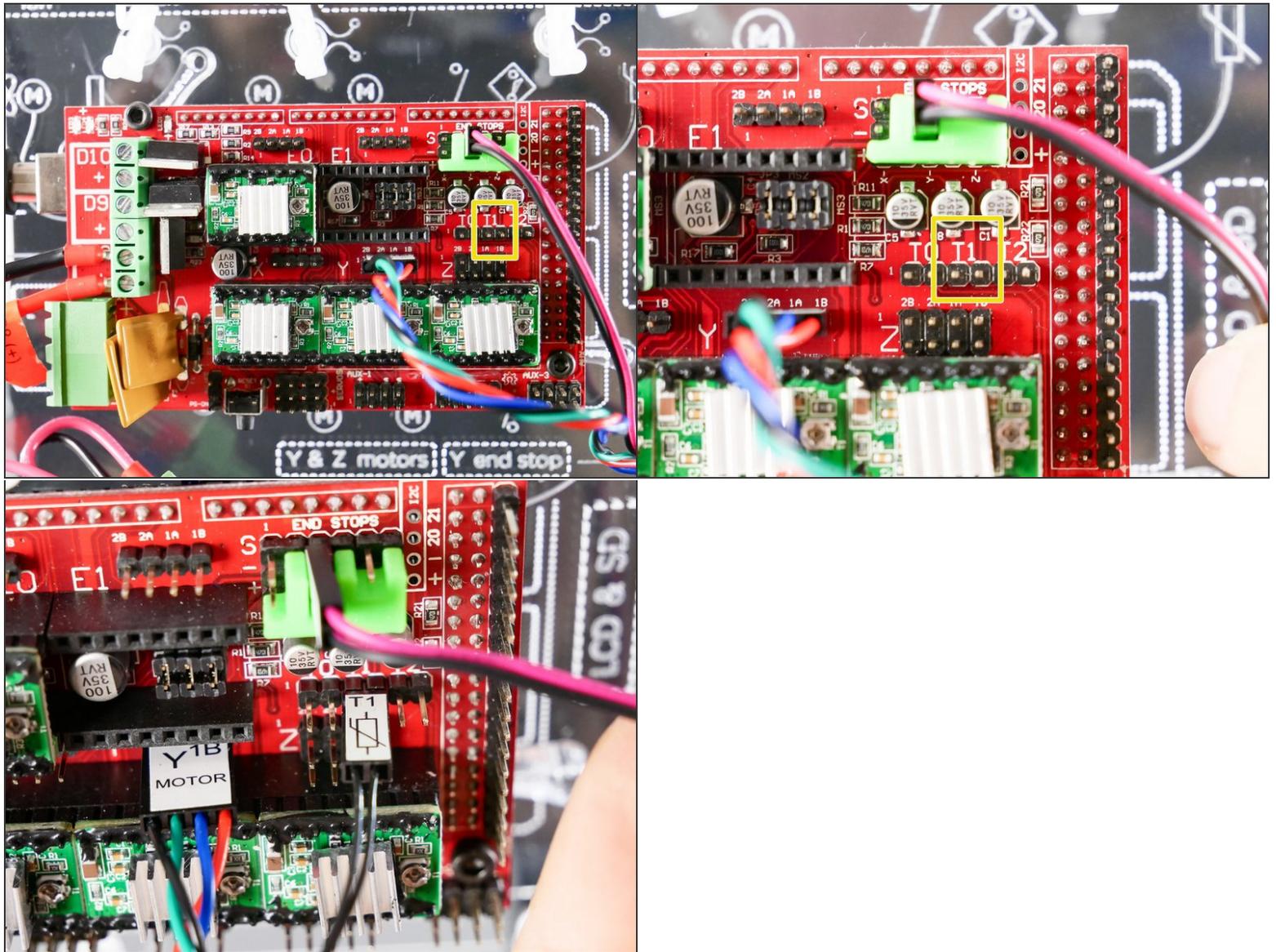
- D8 minus to minus.

⚠️ Tighten well.

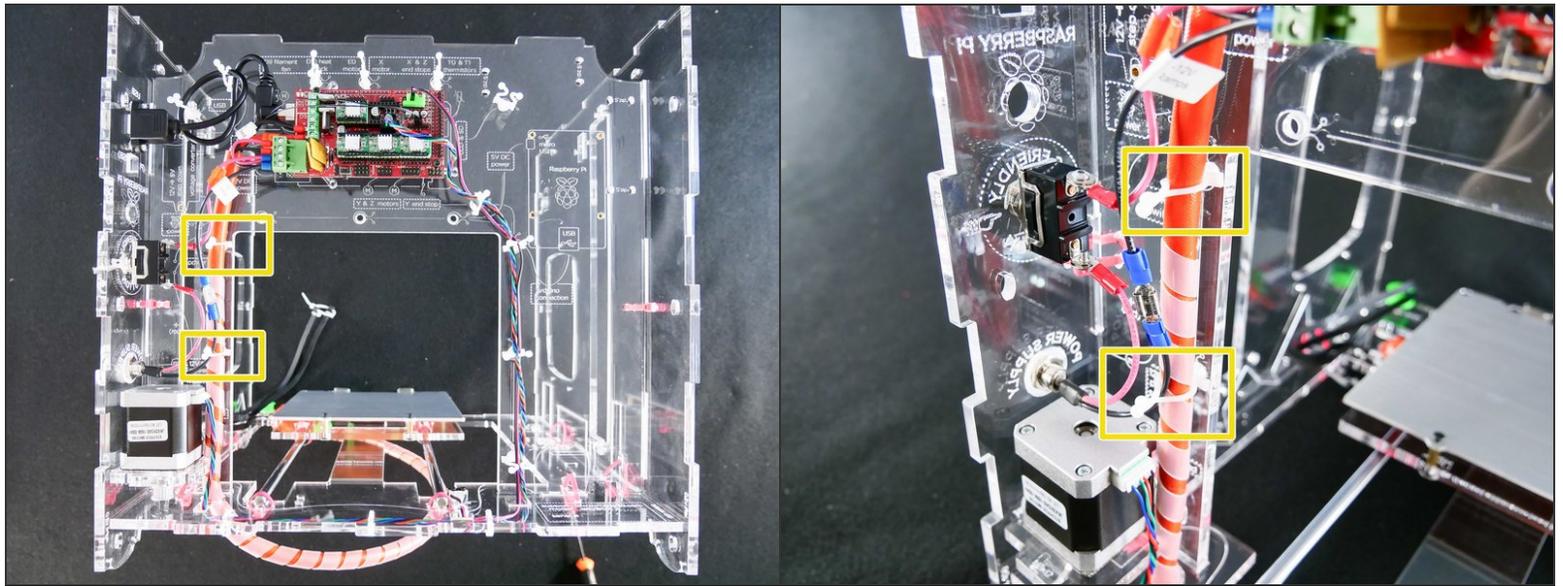
Step 67



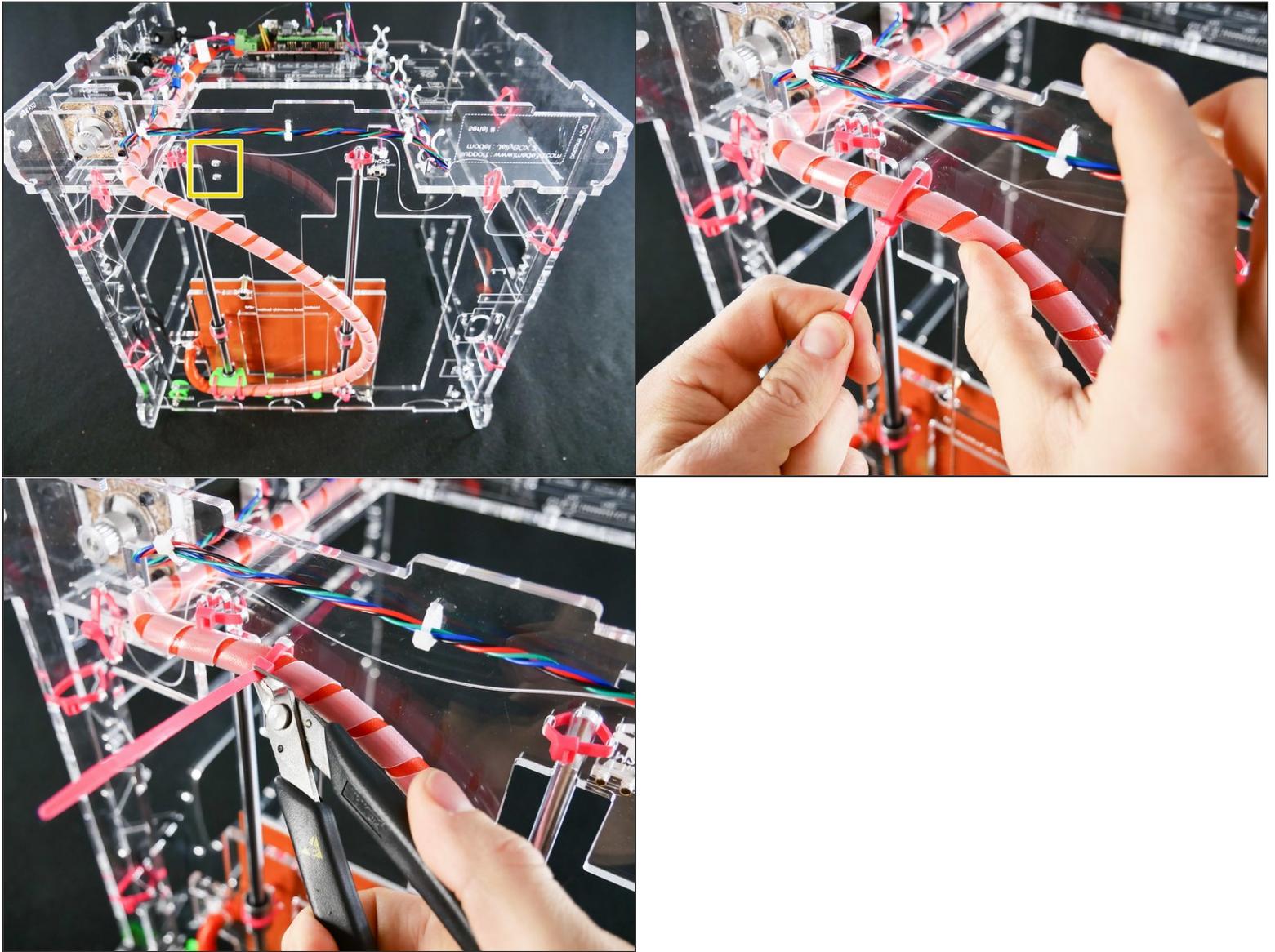
Step 68

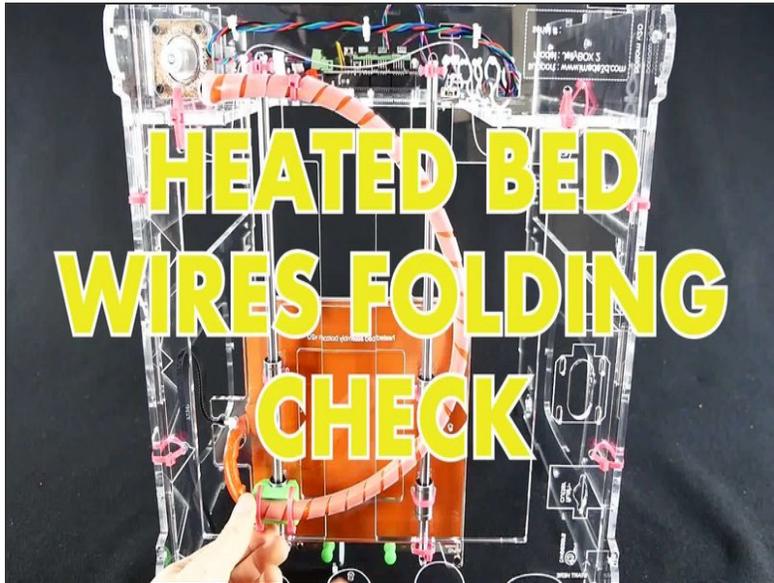


Step 69



Step 70

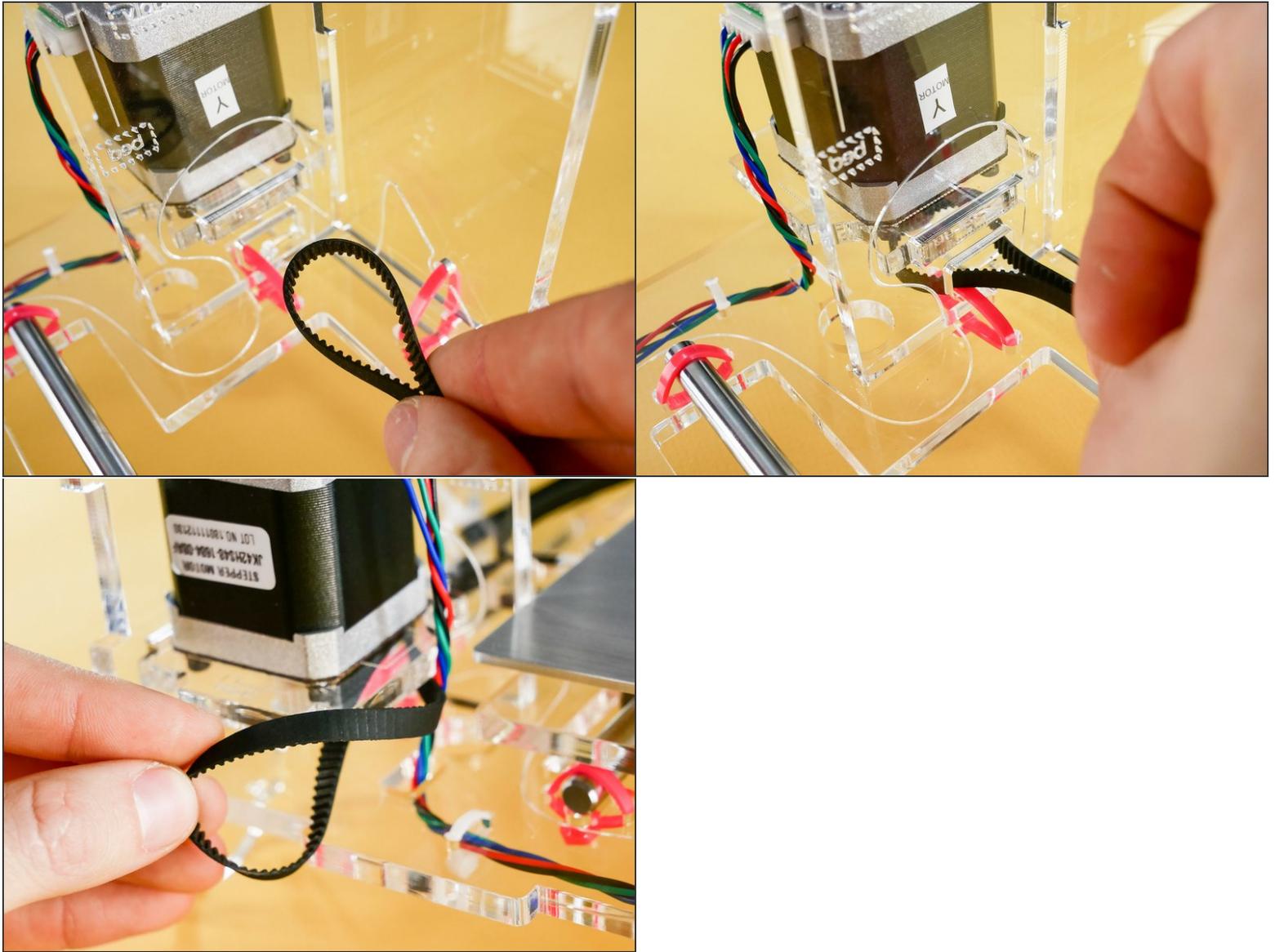


Step 71 — ▶ Video: Heated Y Assembly Wires Folding Check

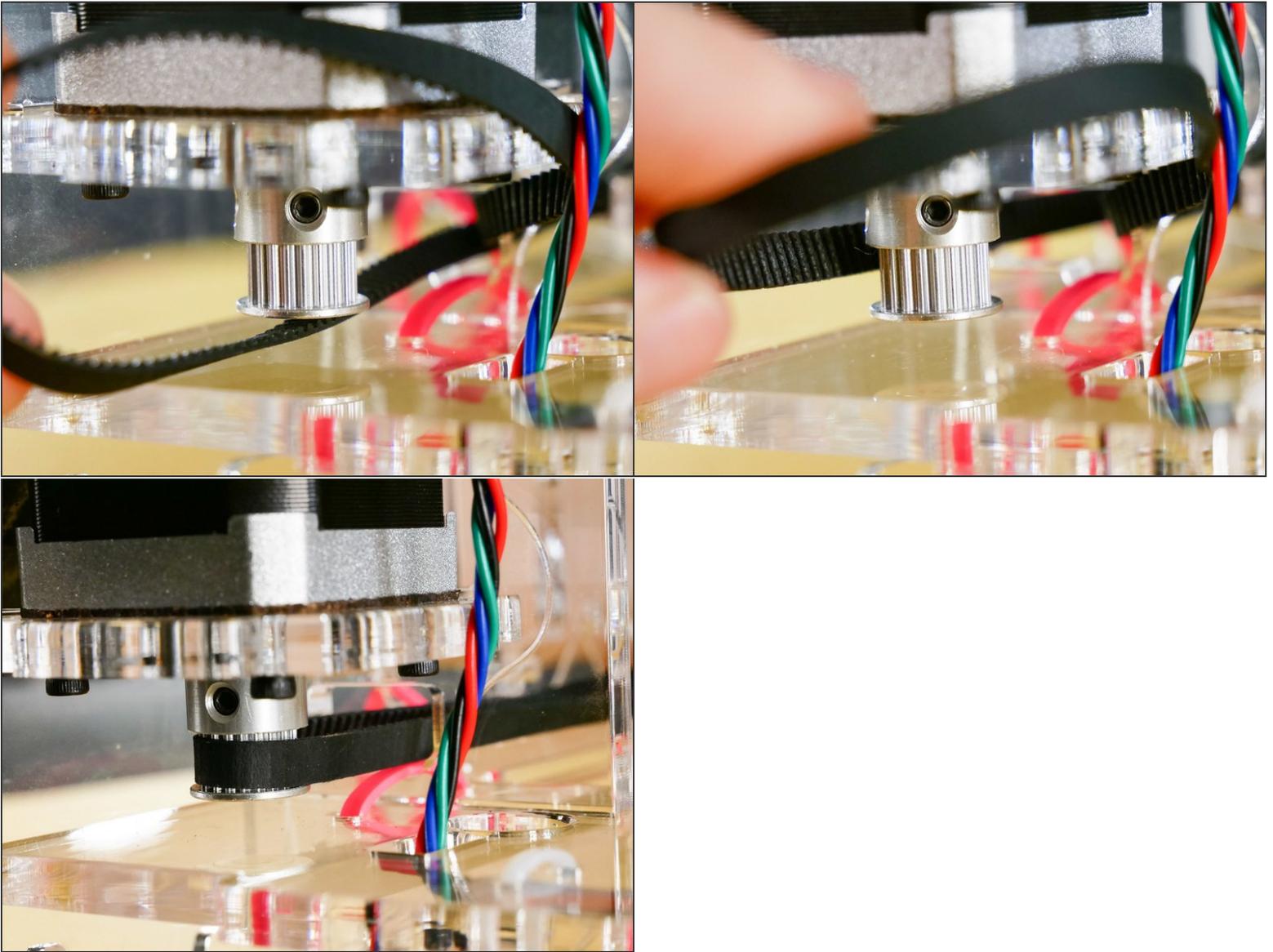
- ▶ Video: Heated Y Assembly Wires Folding Check
- Verify that the wires are folding nicely and smoothly.
- Also, one of the bearings should be hitting the Y endstop.

Step 72 — ↳ Install the Y Belt

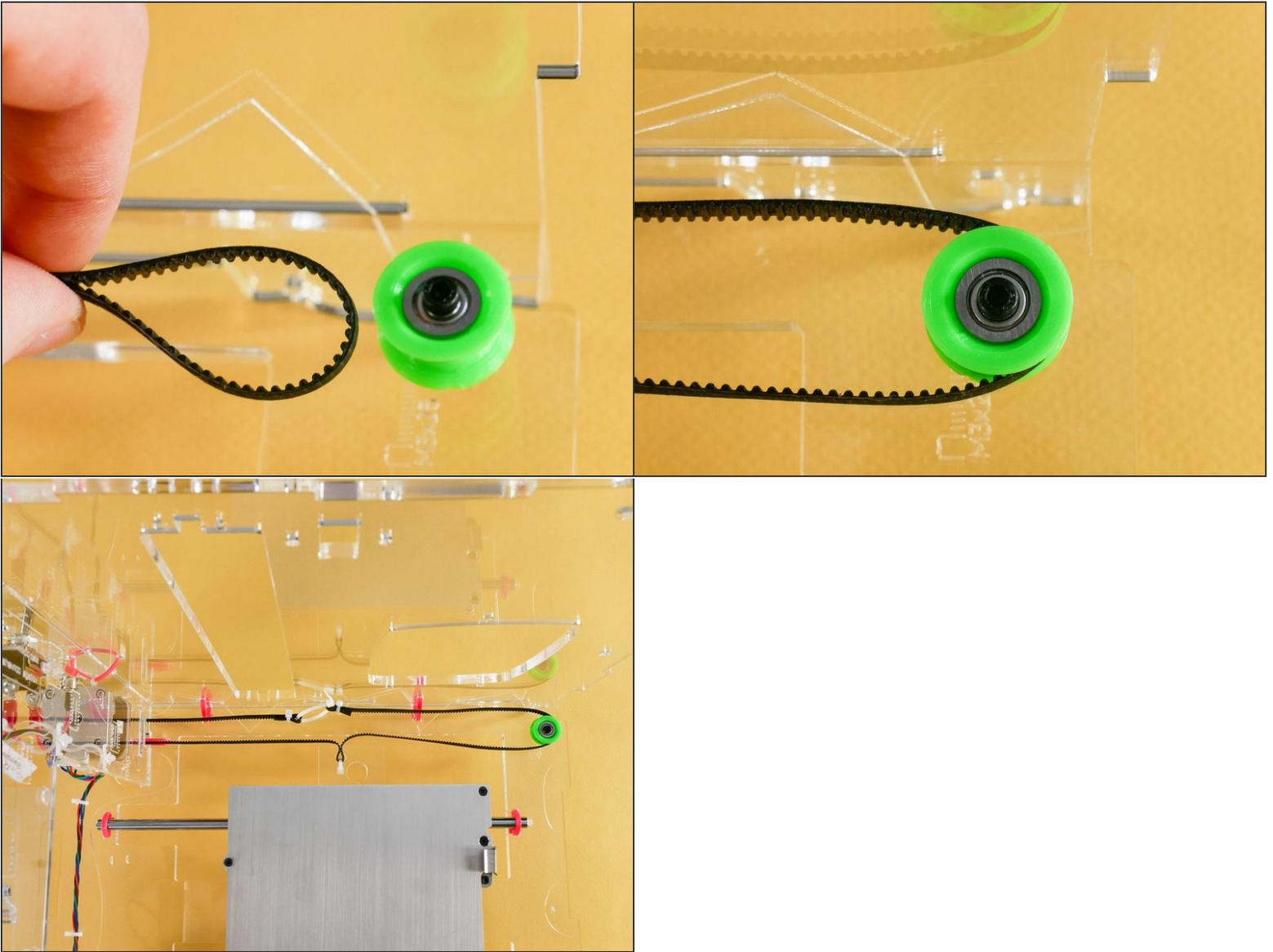
Step 73



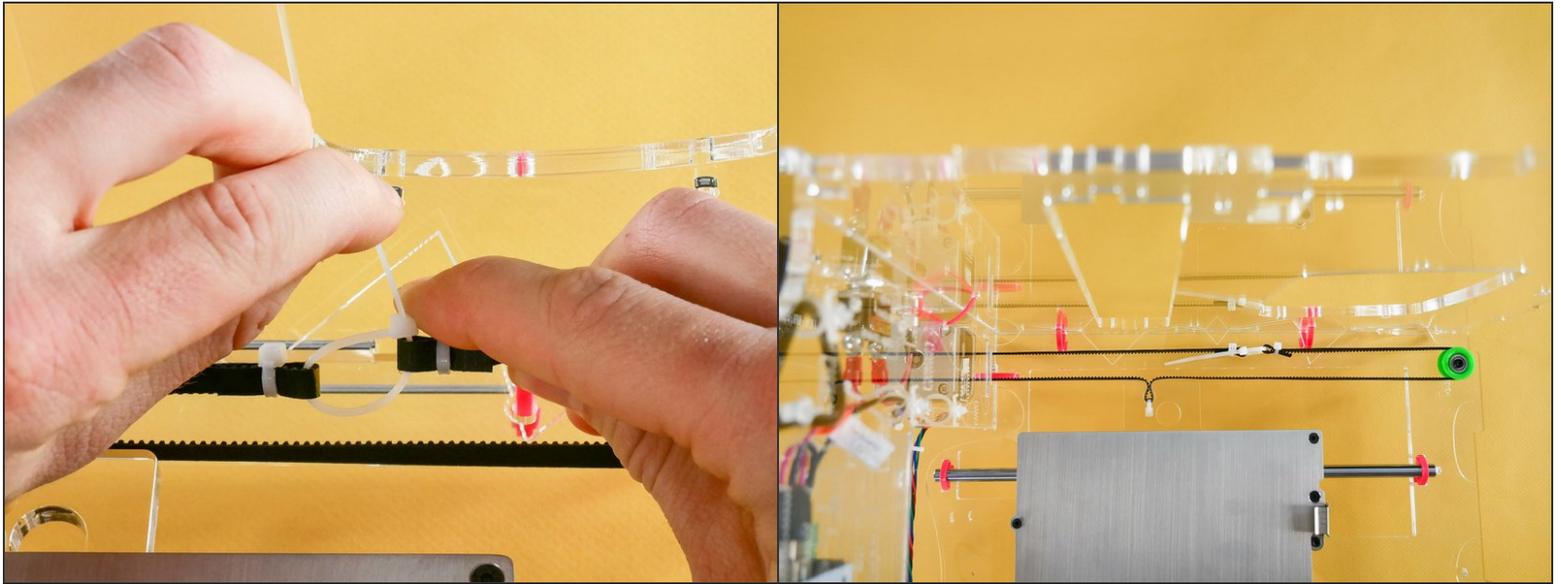
Step 74



Step 75



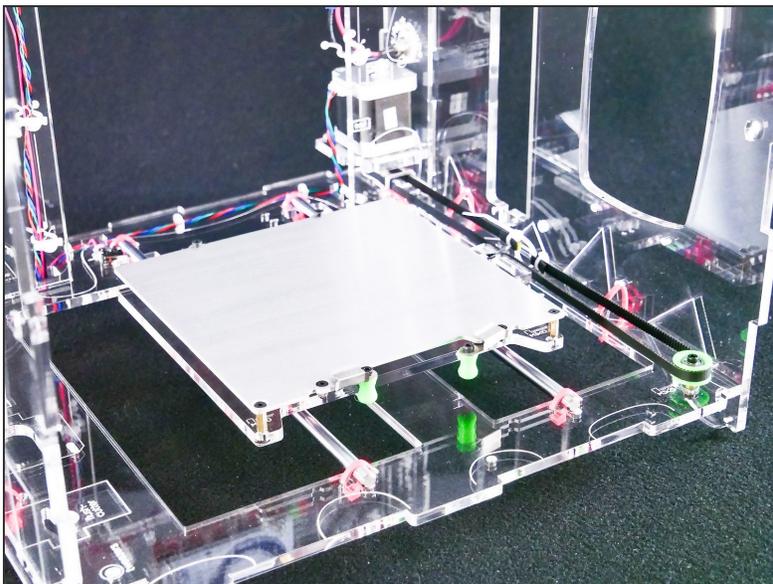
Step 76

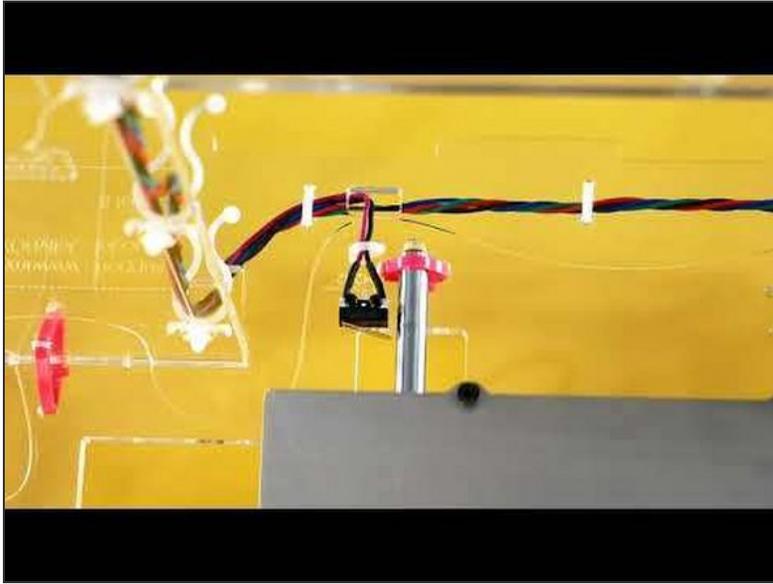


- Lightly tension the belt.

⚠ 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.