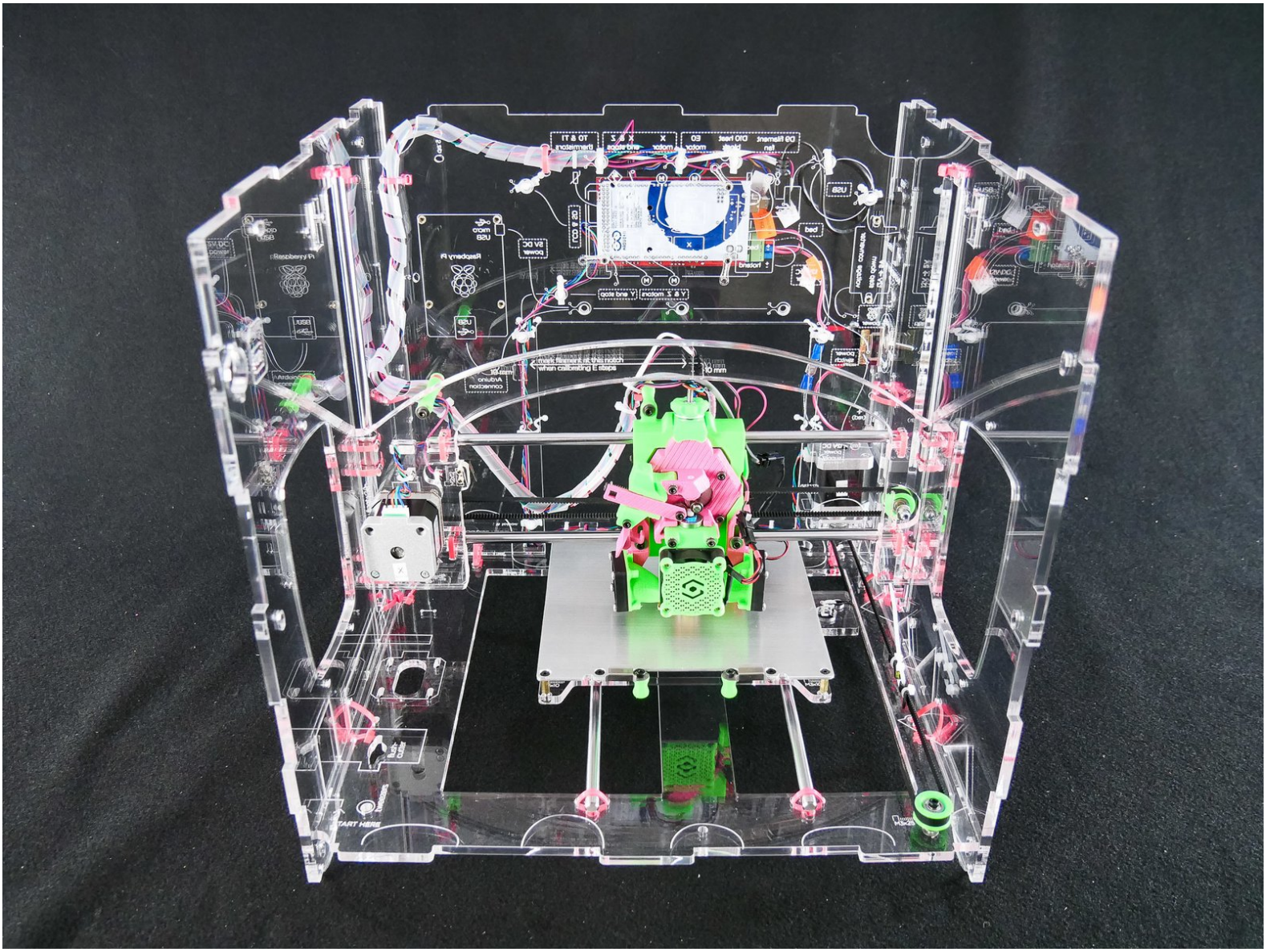
Install the X Assembly

Install the X Assembly



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INTRODUCTION

Not the guide you are looking for?

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

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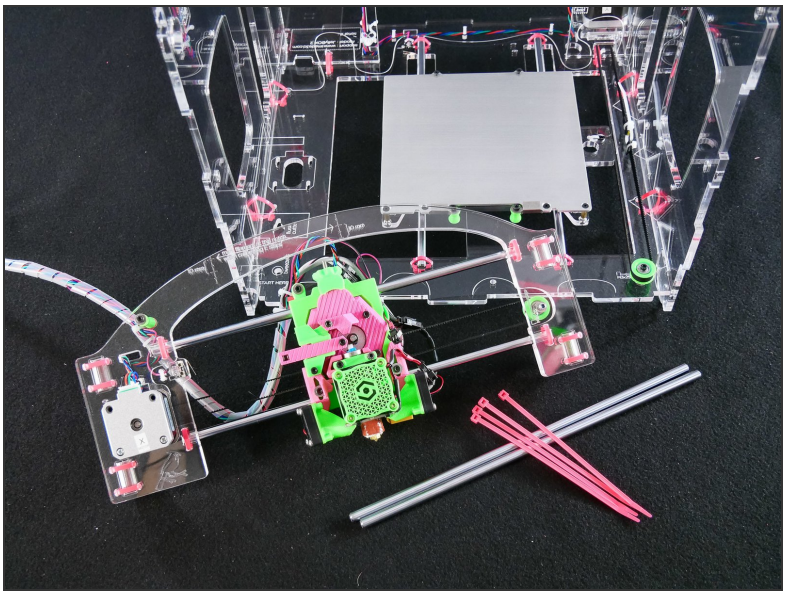
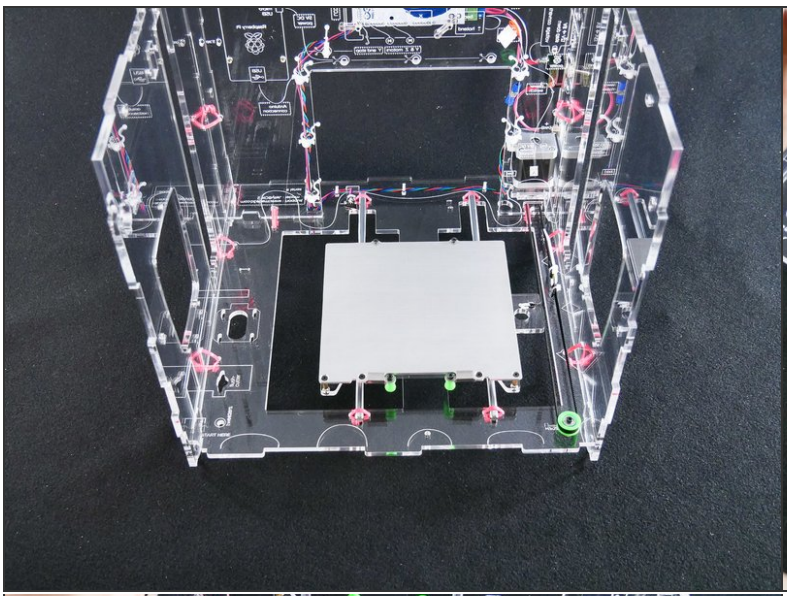
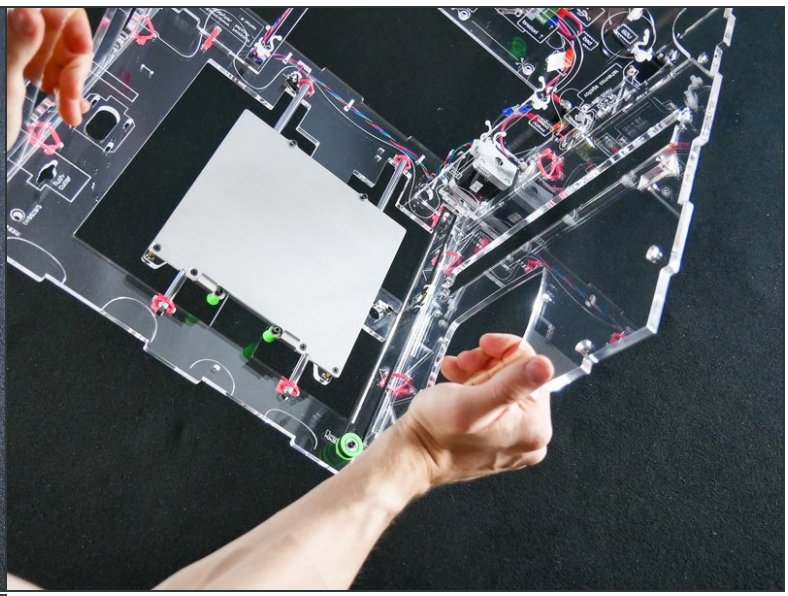
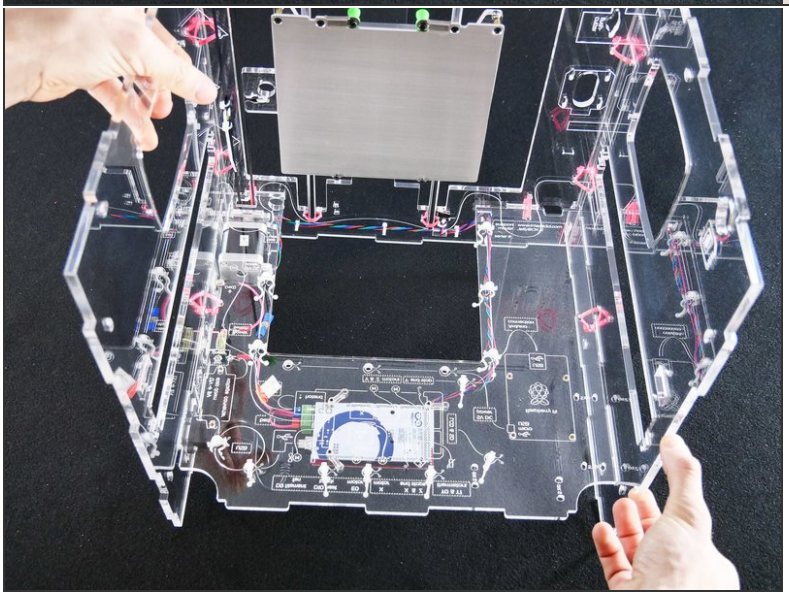
Step 1 — ↳ Insert the X Assembly



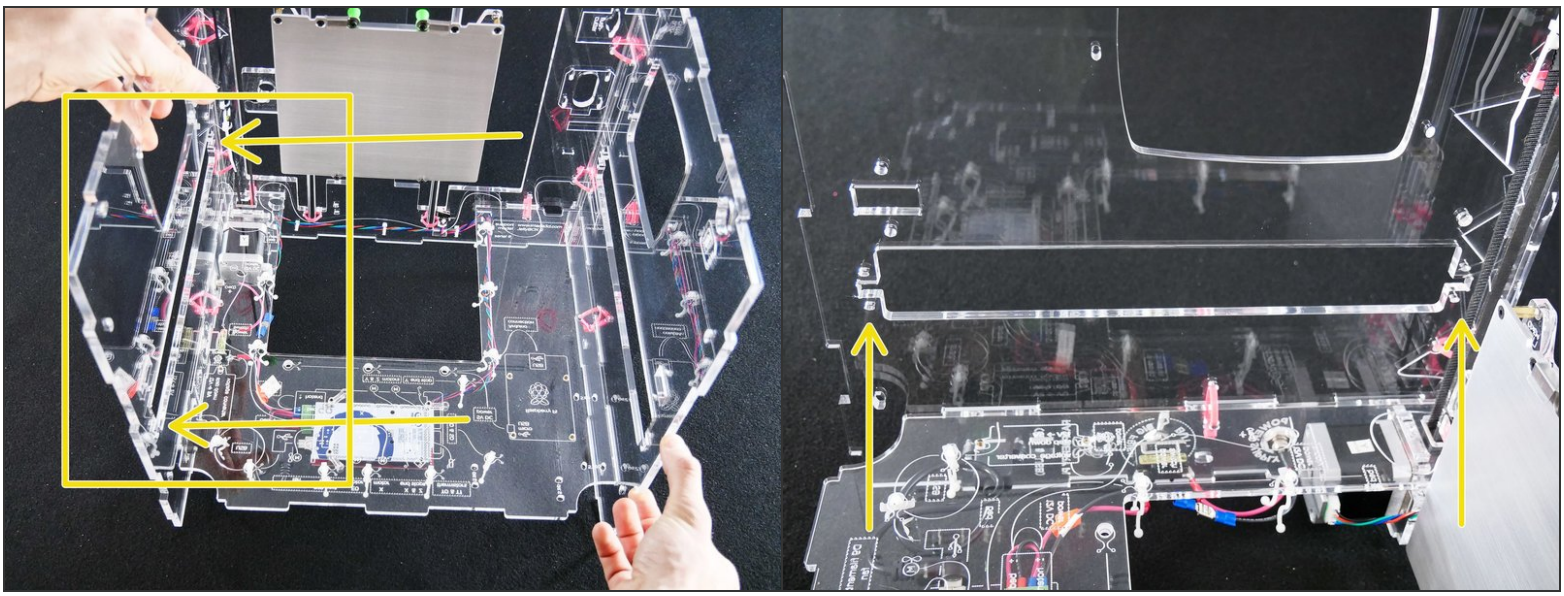
Step 2



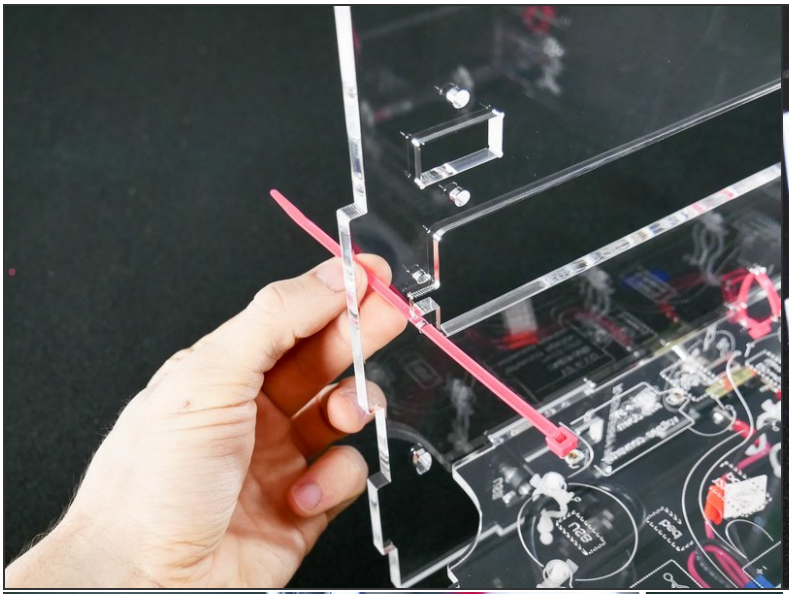


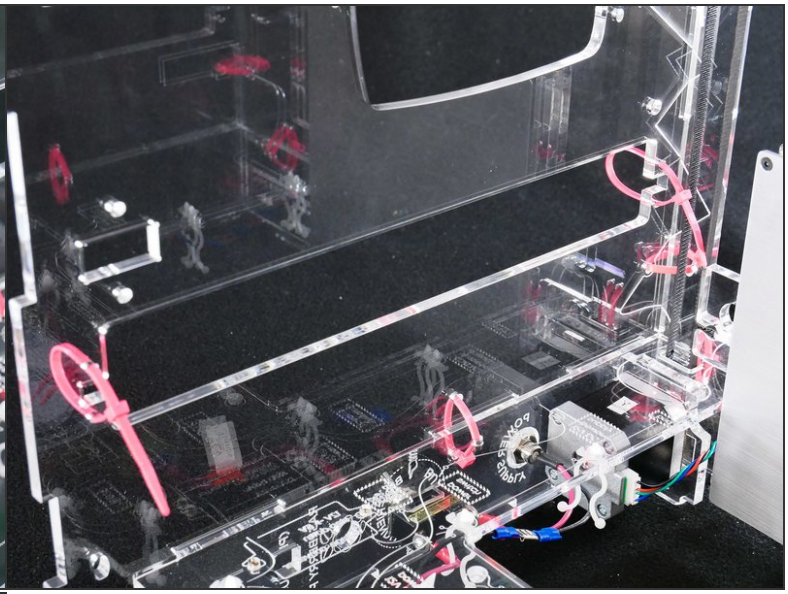


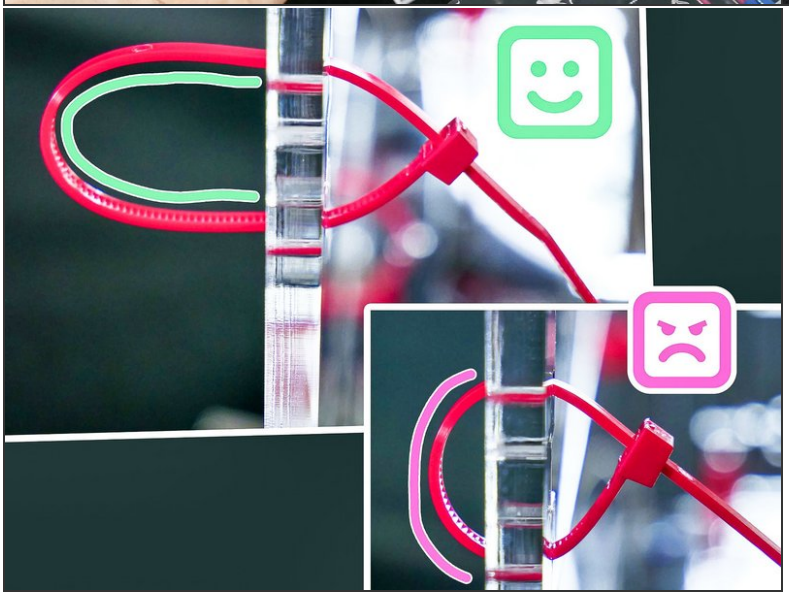
Step 3



Step 4

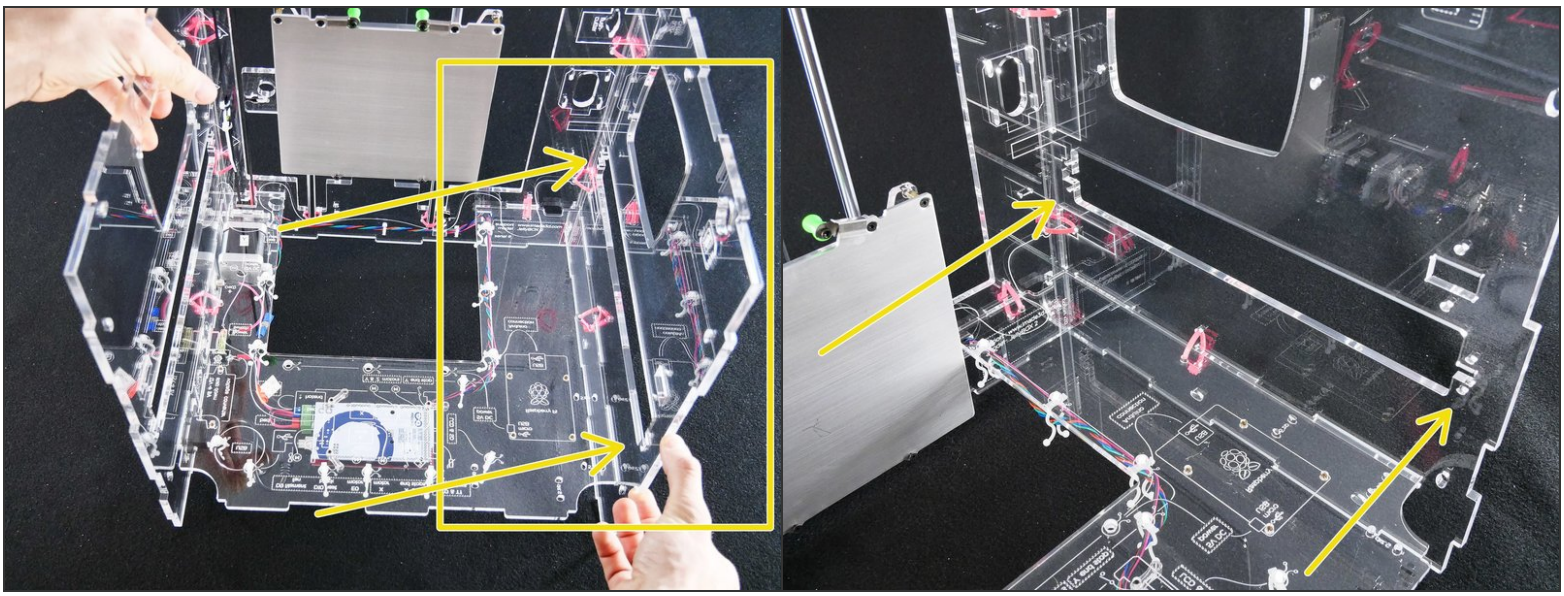




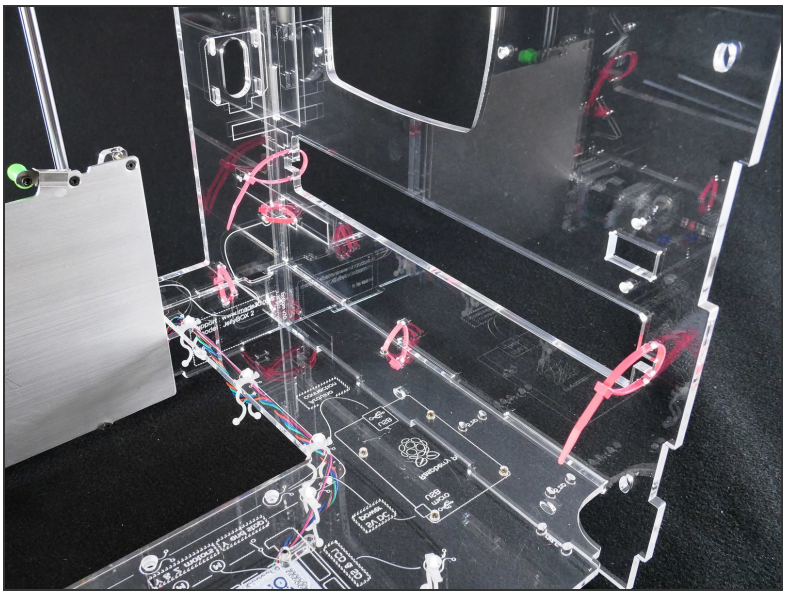


⚠ Leave the zip ties loose.

Step 5



Step 6



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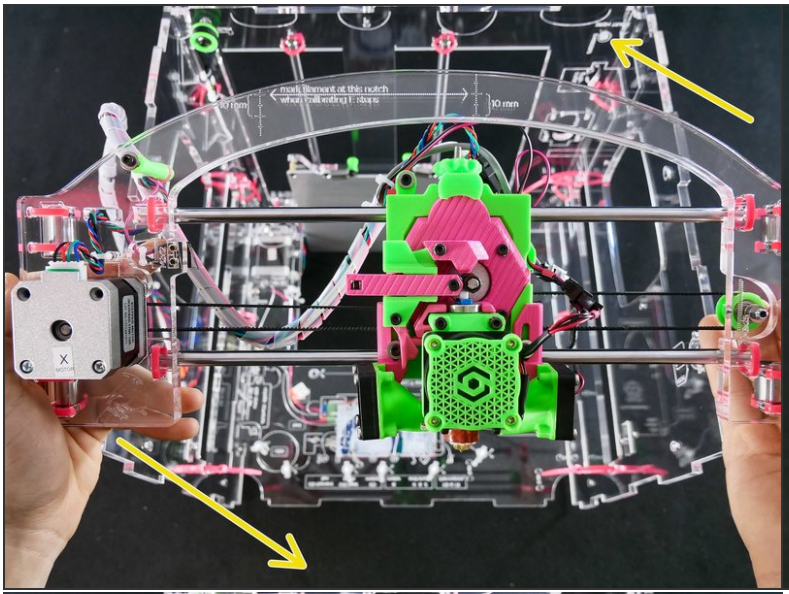
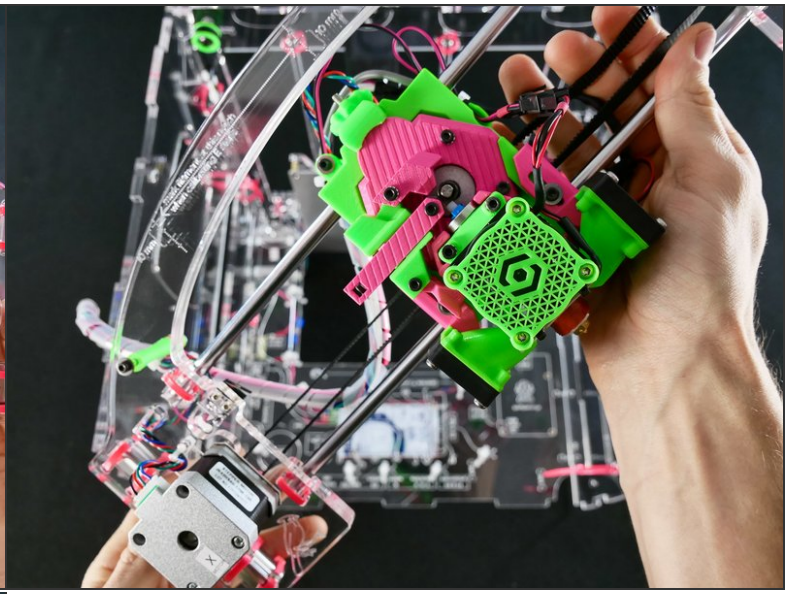
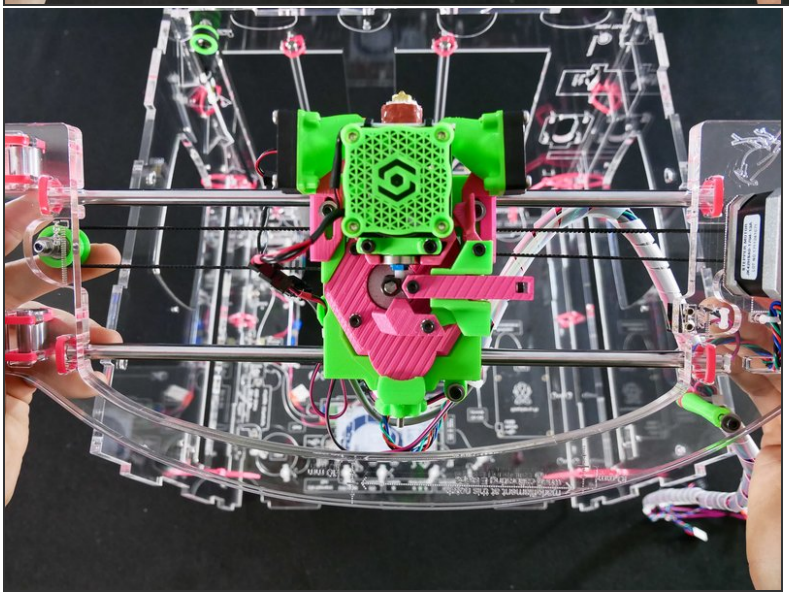
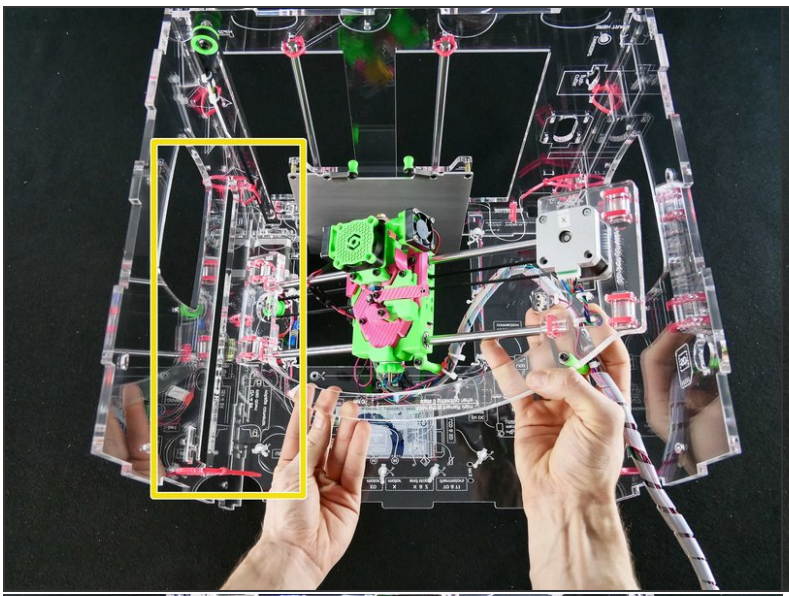
Step 7

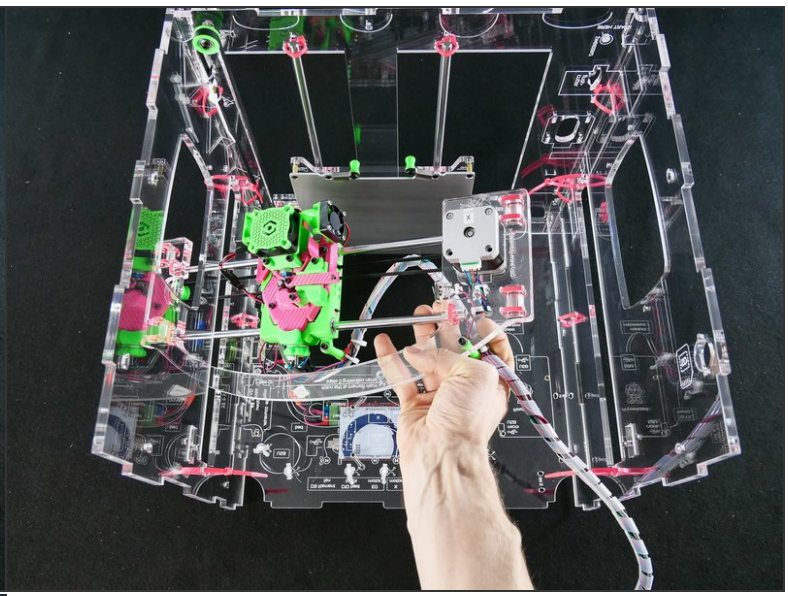

mark filament at this notch
when it will exiting E stepper
10 mm
10 mm

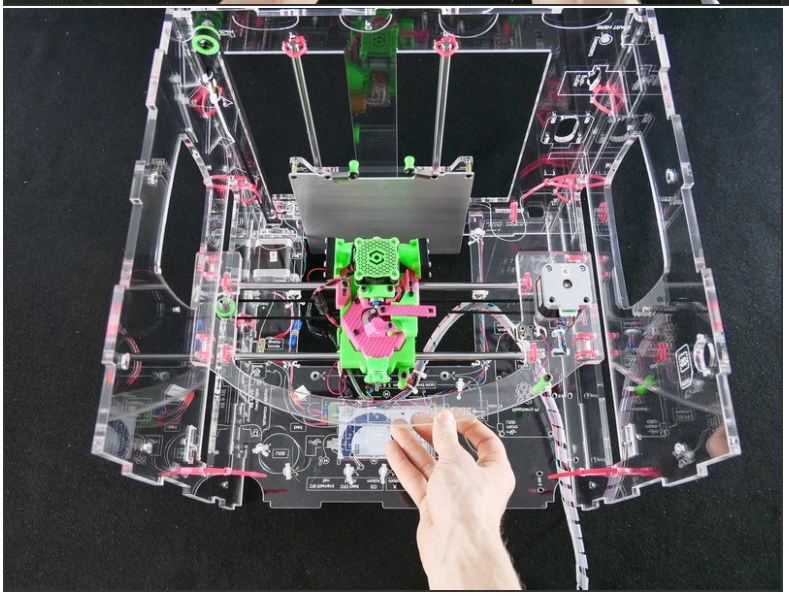




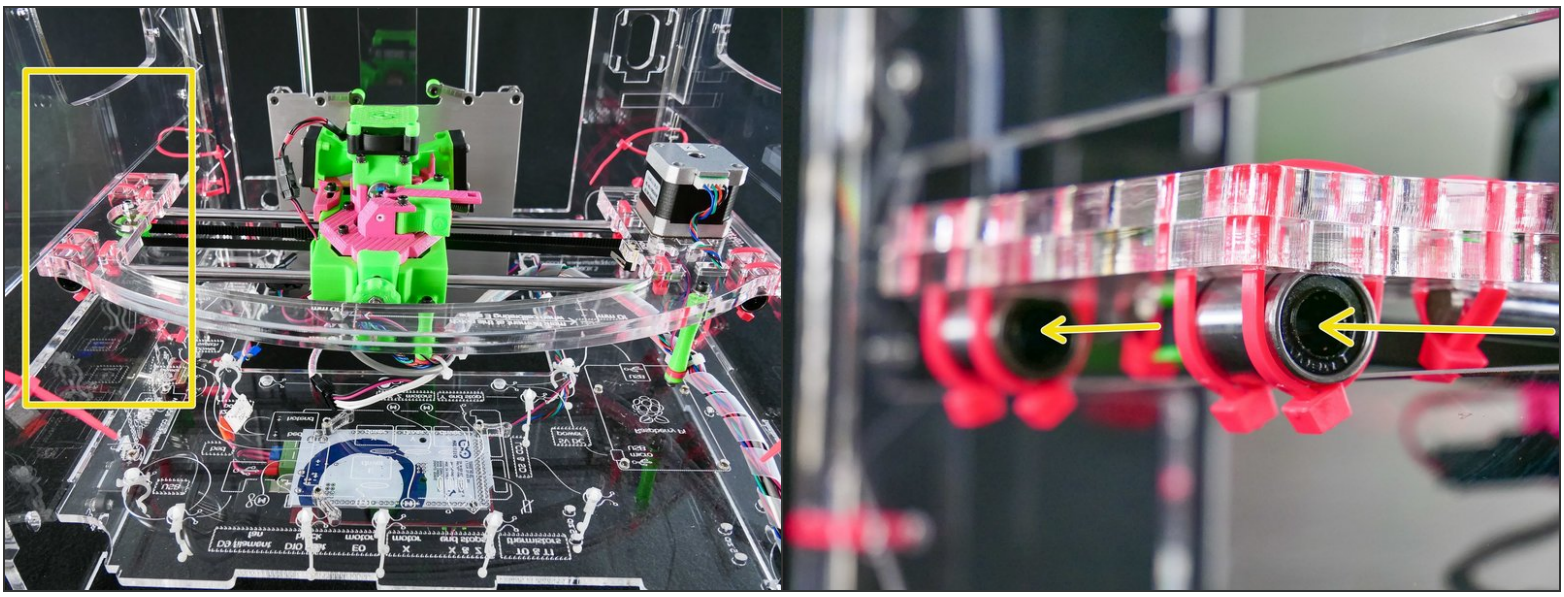
Step 8







Step 9



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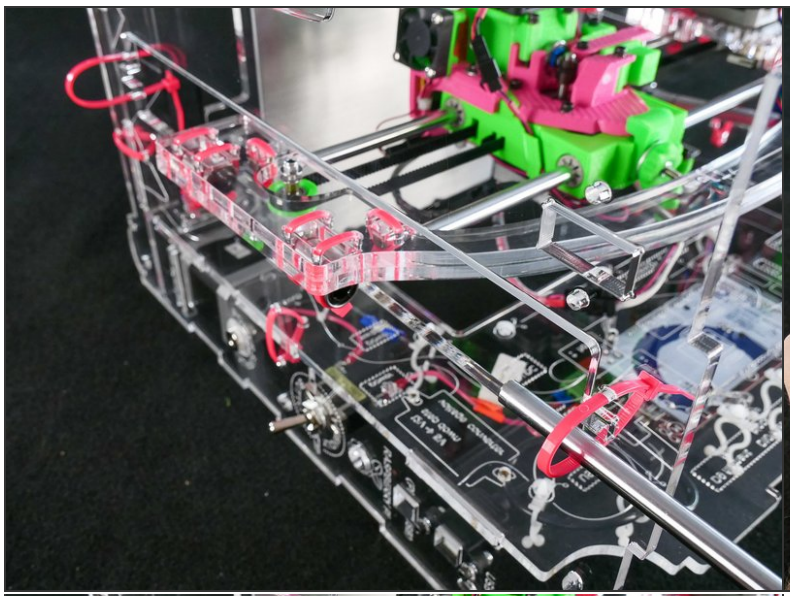
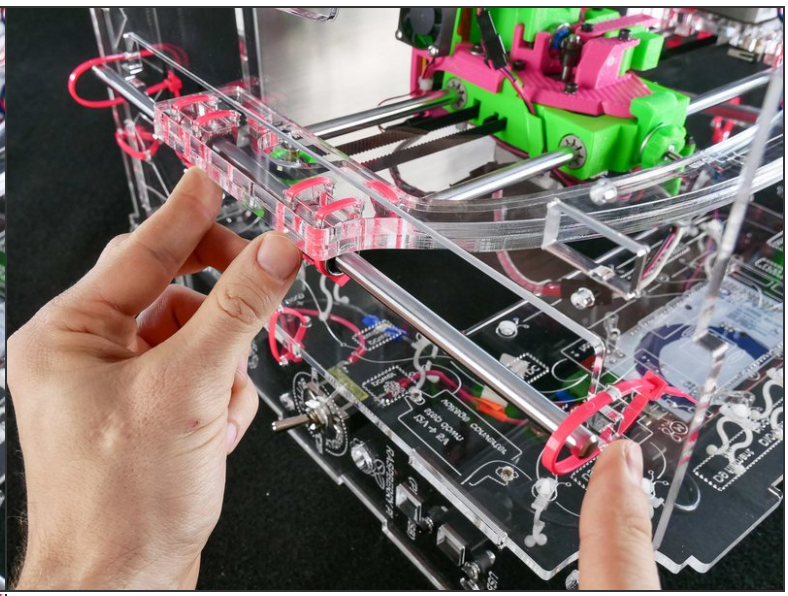
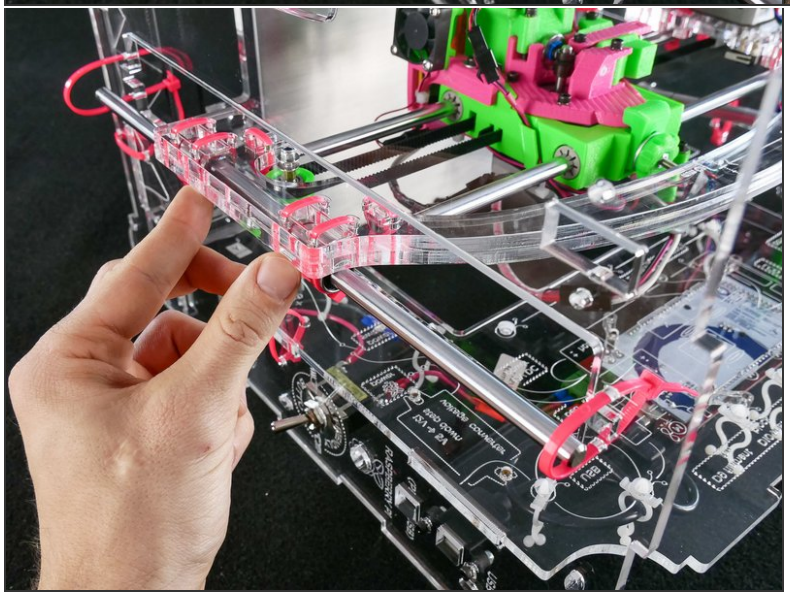
Step 10

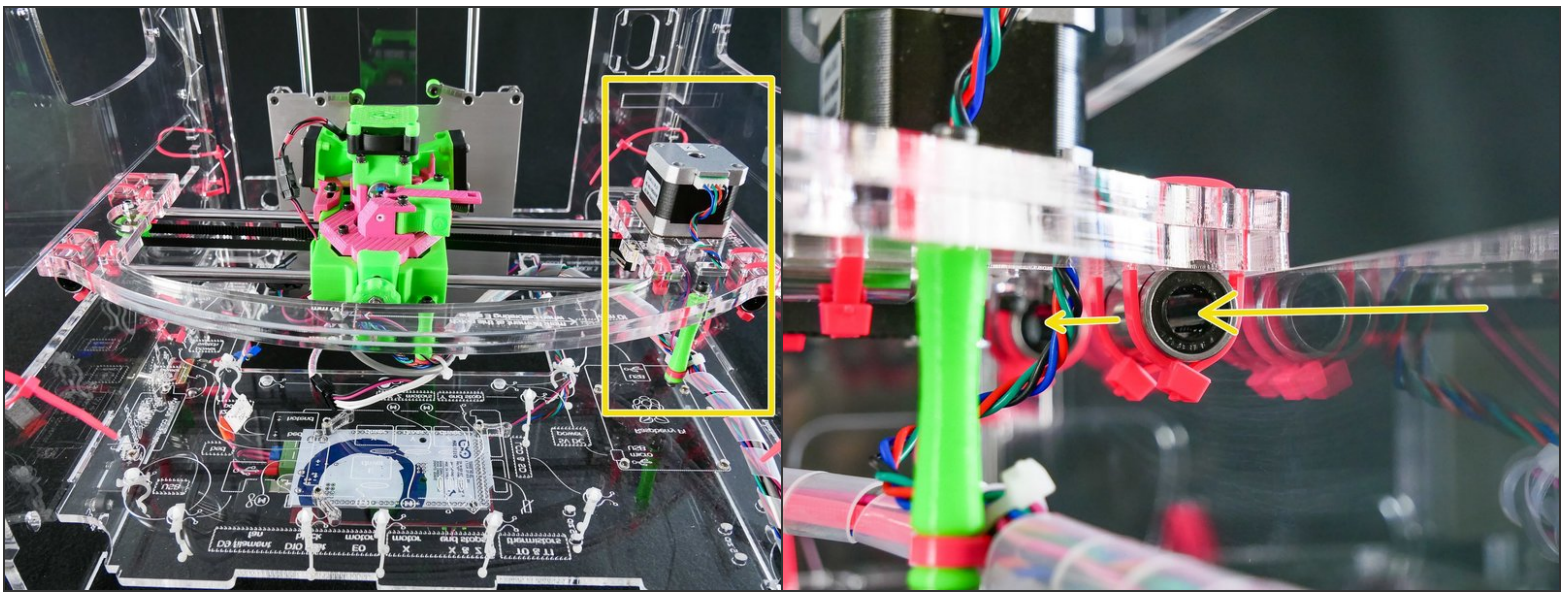




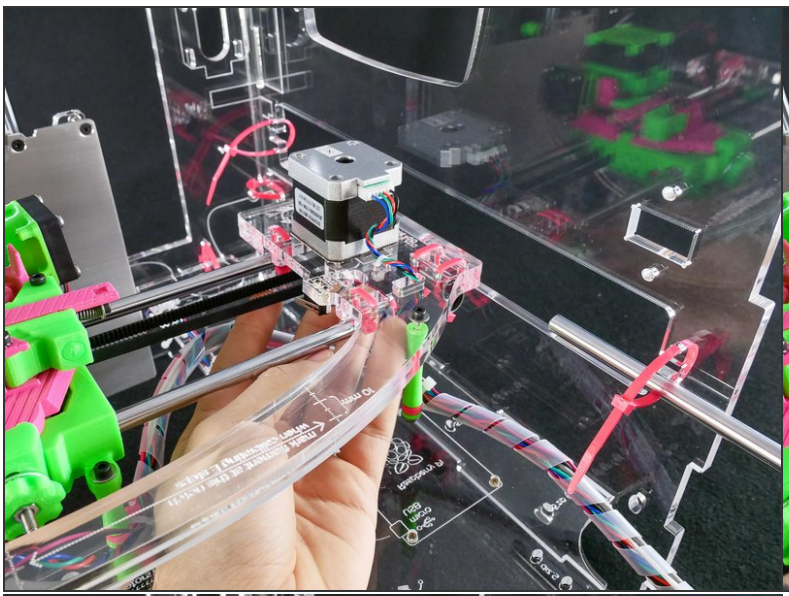


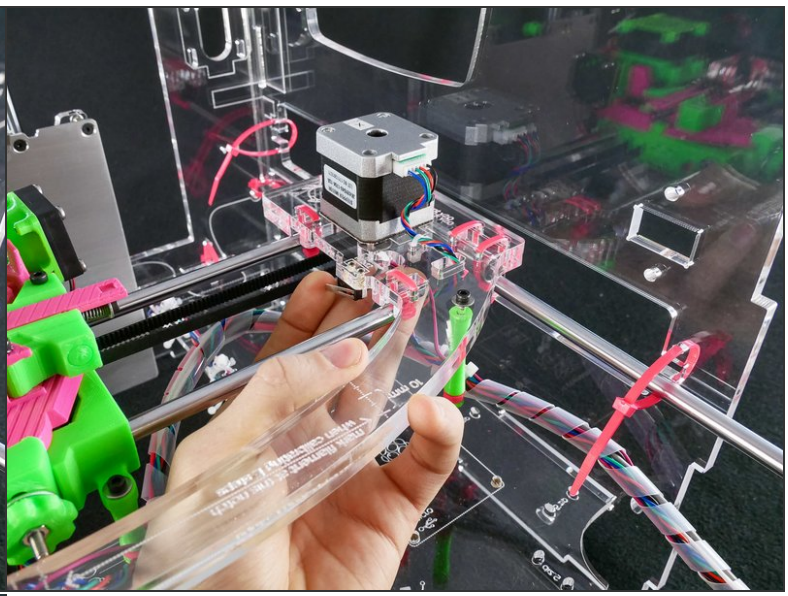
⚠ Be gentle. Do no force the rod and keep it straight or*you may damage the ball bearing by knocking some balls out.*

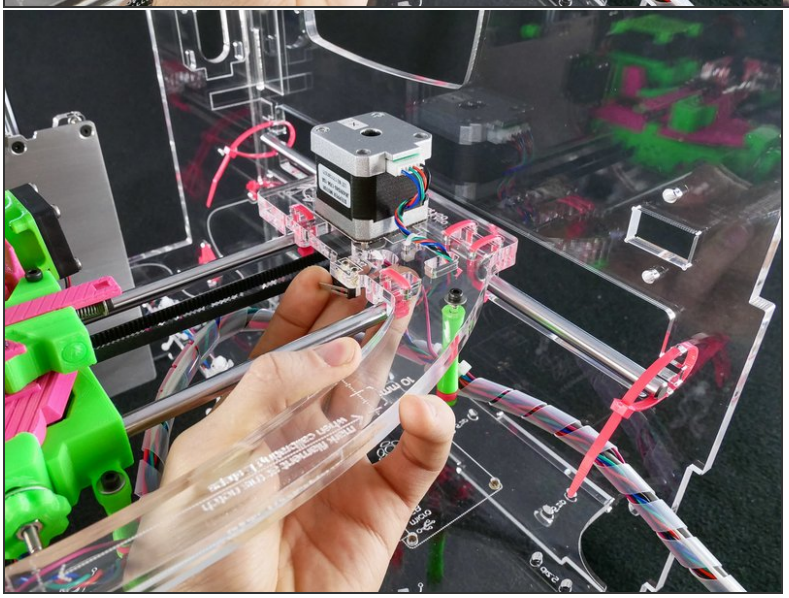
Step 11



Step 12







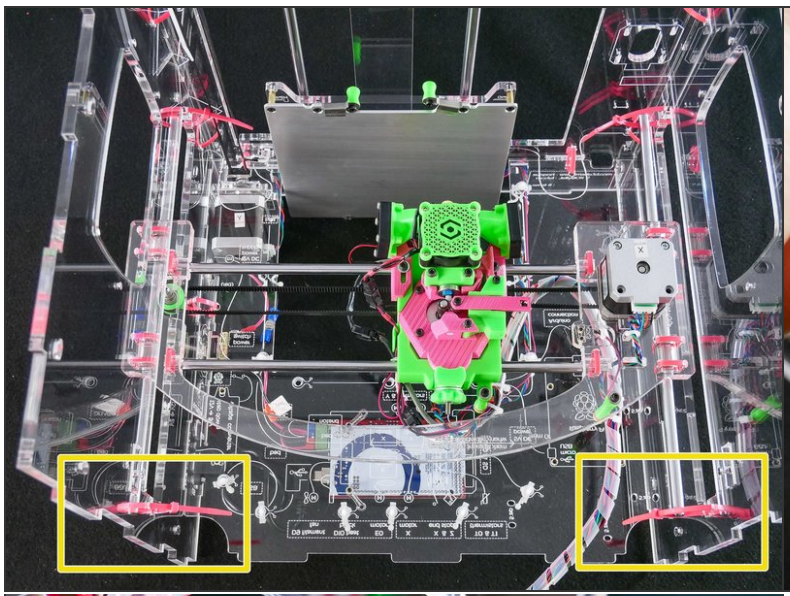
⚠ BE GENTLE. Do no force the rod and keep it straight or*you may damage the inside of the bearing.*

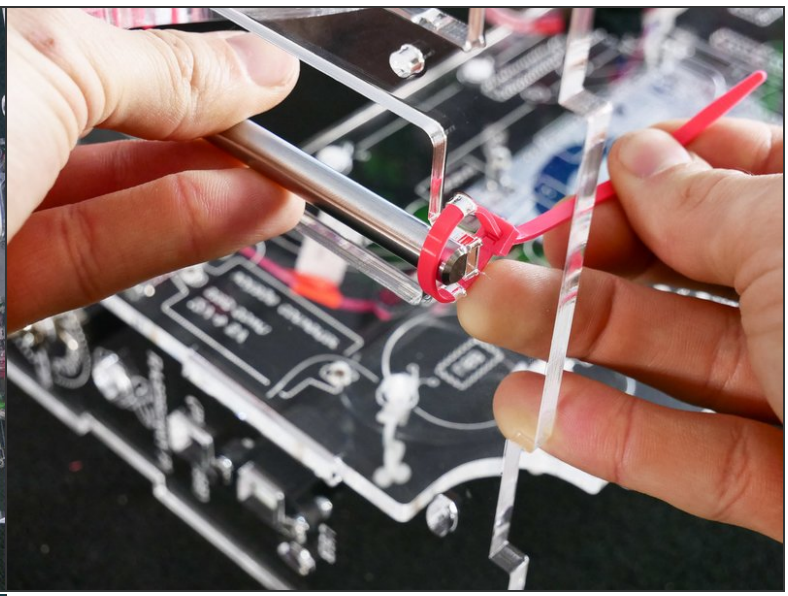
Step 13

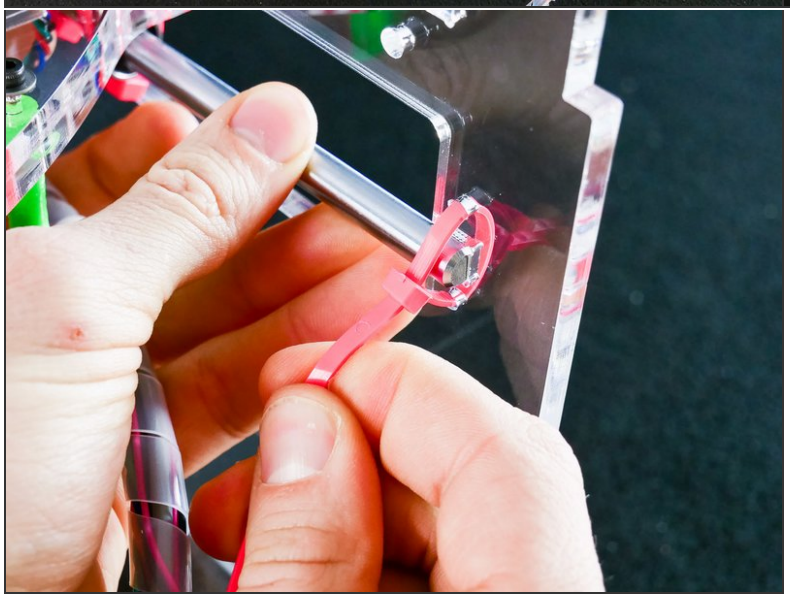
- We highly recommend you **scroll ahead** and **look at the whole procedure** of zip tying the x assembly.
- The procedure is quite simple, but it's hard to understand if you look image-by-image.

ⓘ We'll first tighten both front zip ties, and only then both zip ties in the back.

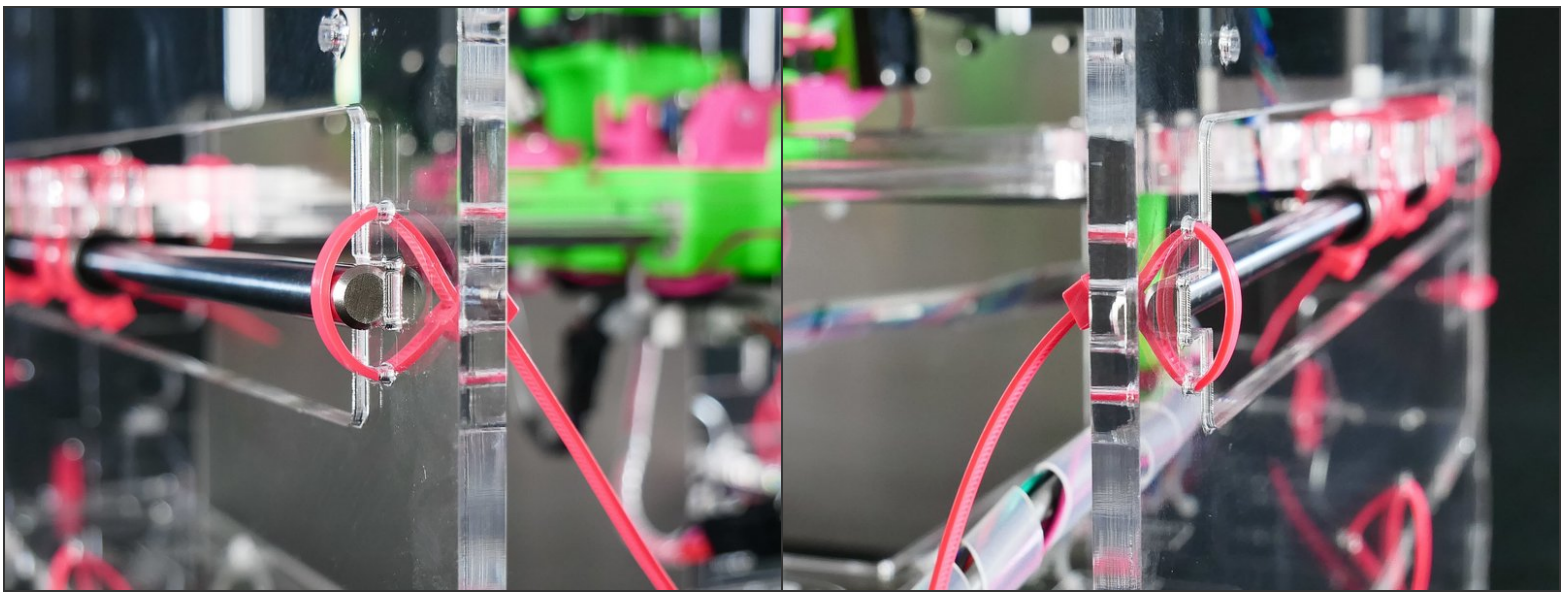
Step 14







Step 15



Note that on the **left** the rod is **outside**, while on the **right** the rod is **inside**.

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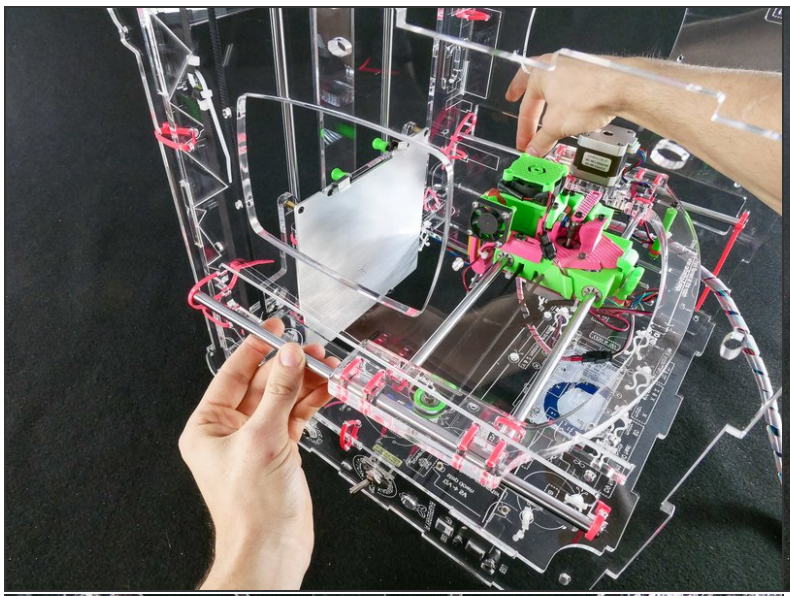
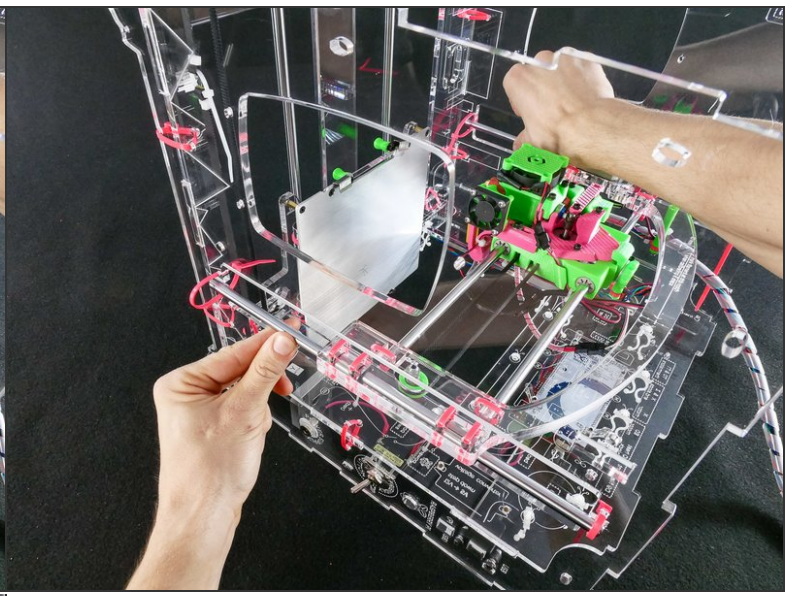
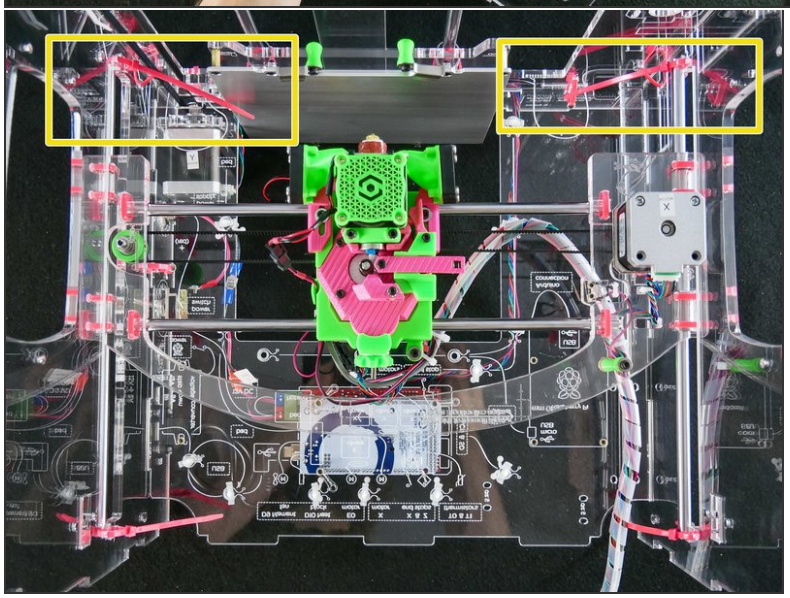
Step 16

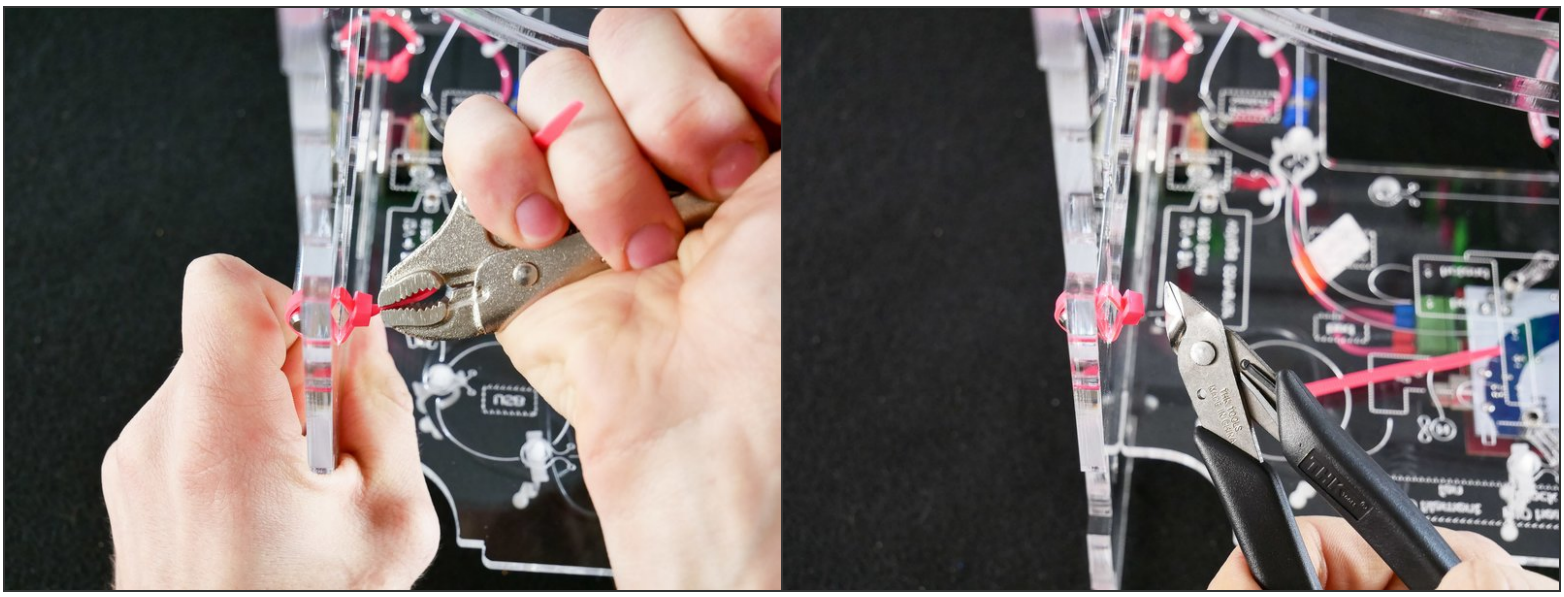




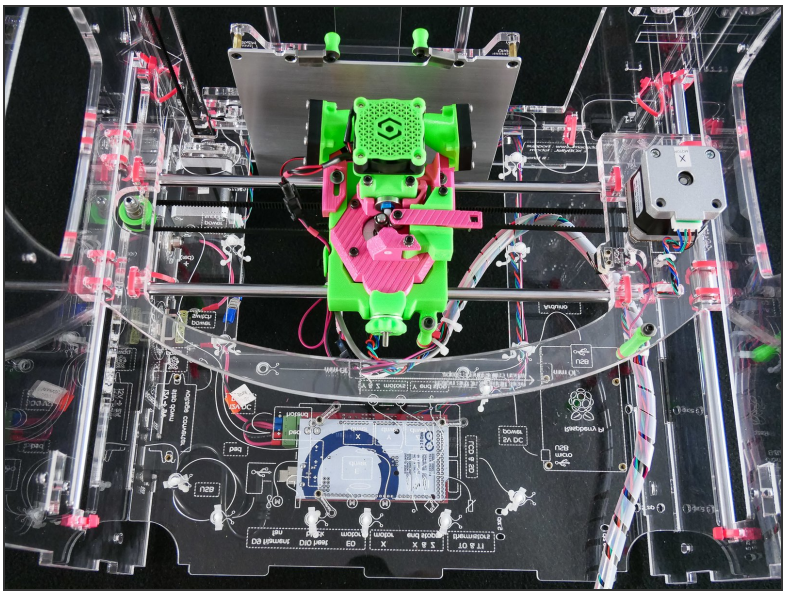


- Push the rods in place and tighten the back zip ties.

Step 17

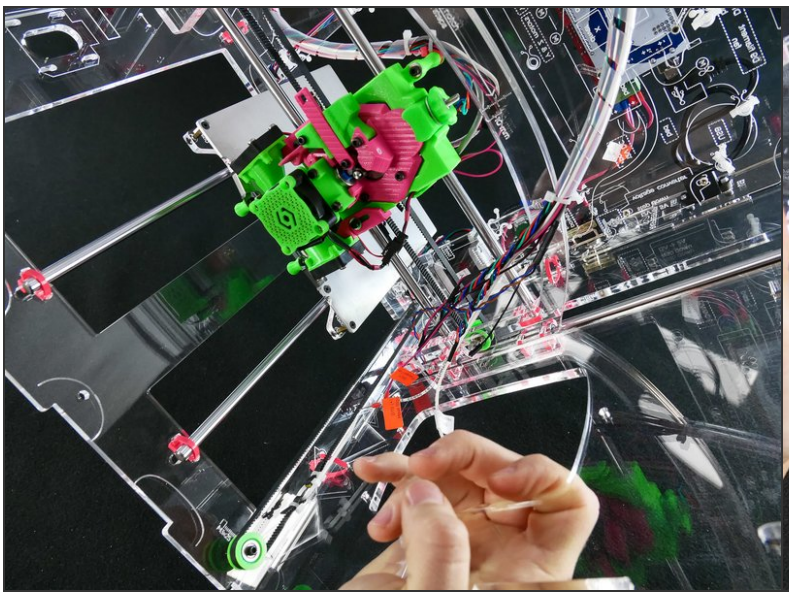
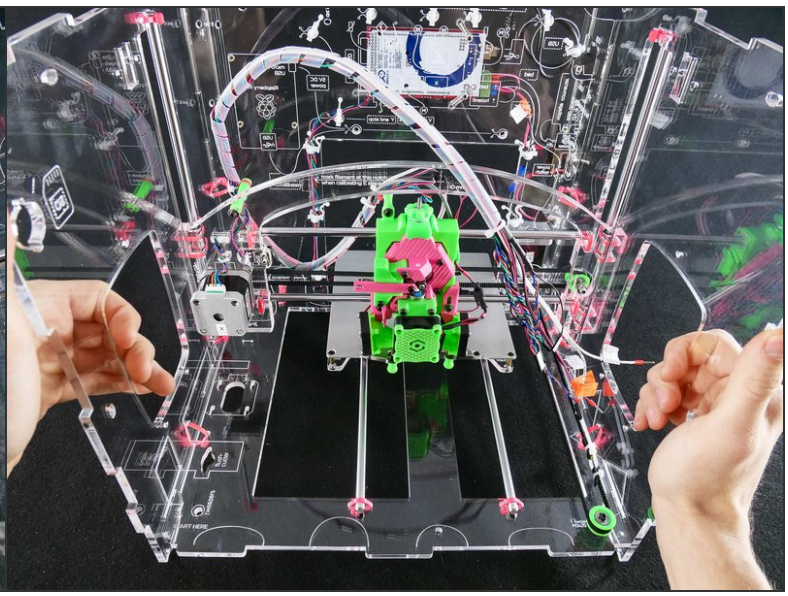


Step 18 — Looking good!



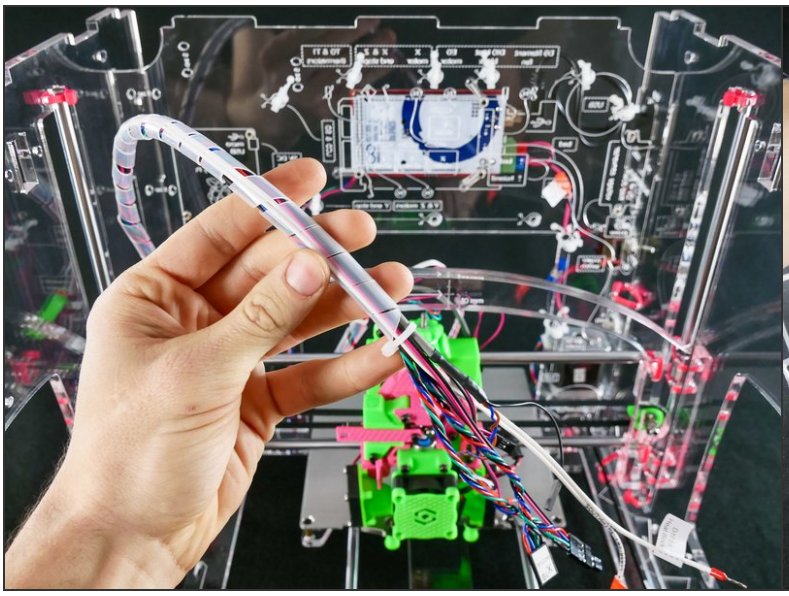
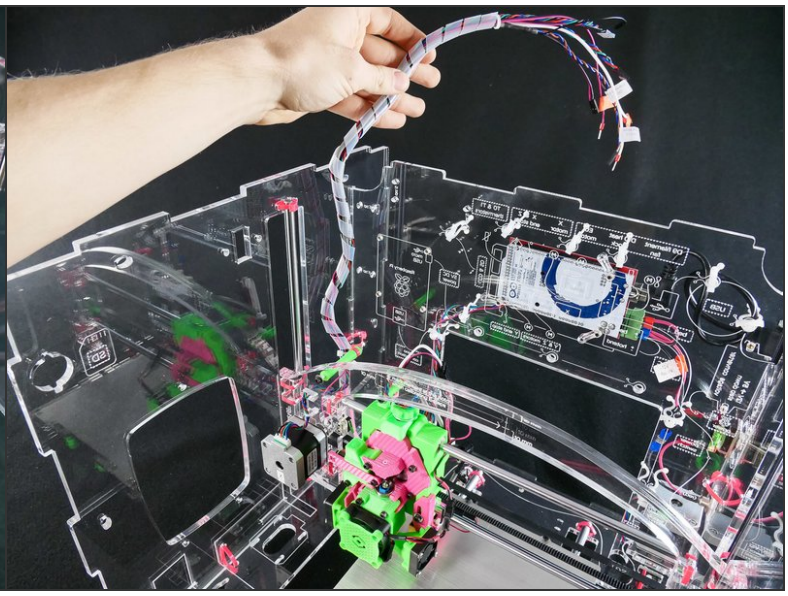
- The X assembly is inserted.

Step 19

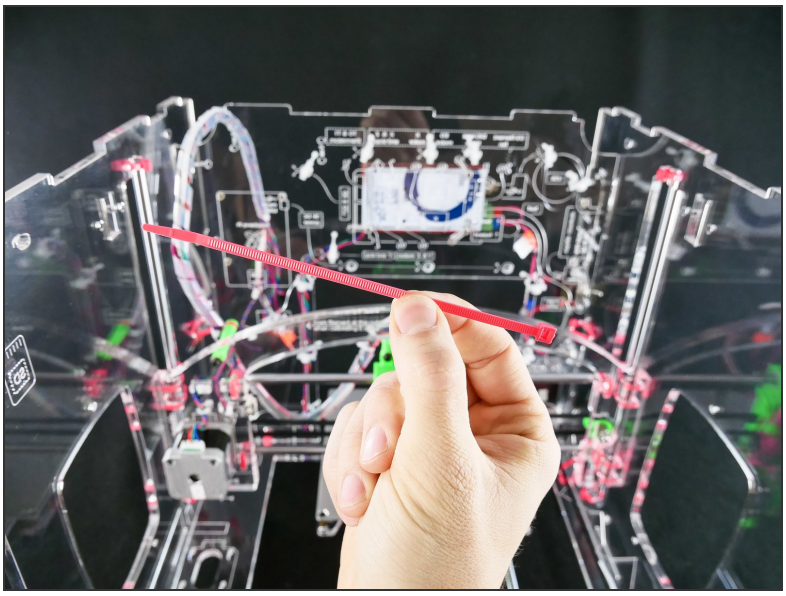



- Turn the JellyBOX from its back into *normal position*.

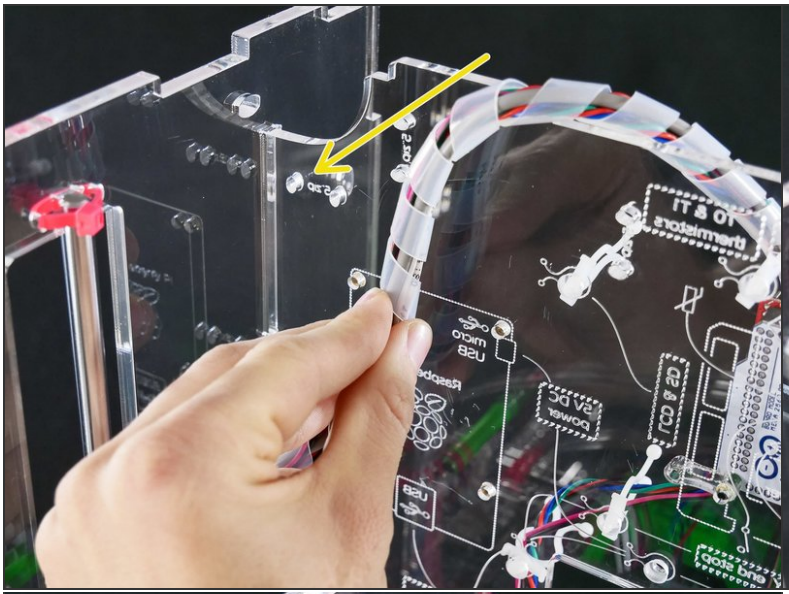
Step 20

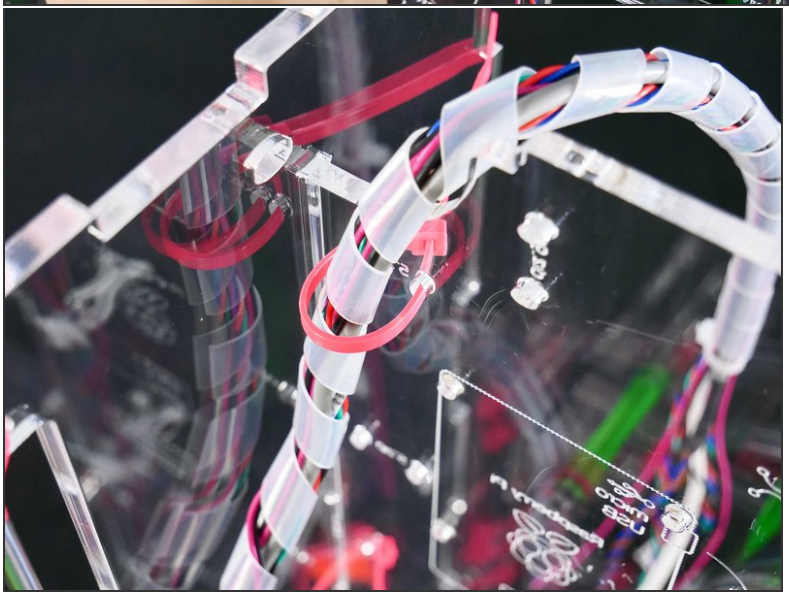



Step 21



Step 22



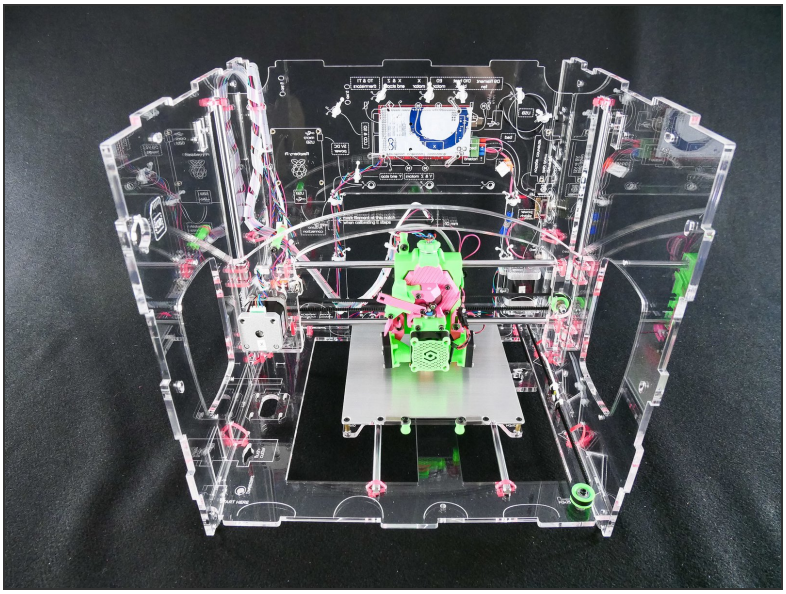


⚠ Leave the zip tie **loose**.

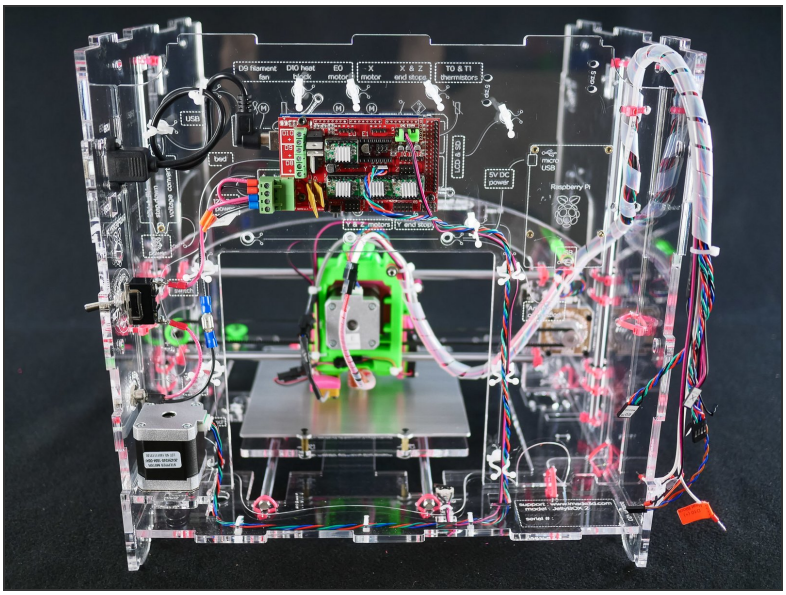
Step 23 — ▶ Video: Adjust the X Wire Harness Folding (50s)

- ▶ Video: Adjust the X Wire Harness Folding (50s)
- Adjust the mounting point as needed so that the harness is folding nicely and predictably.

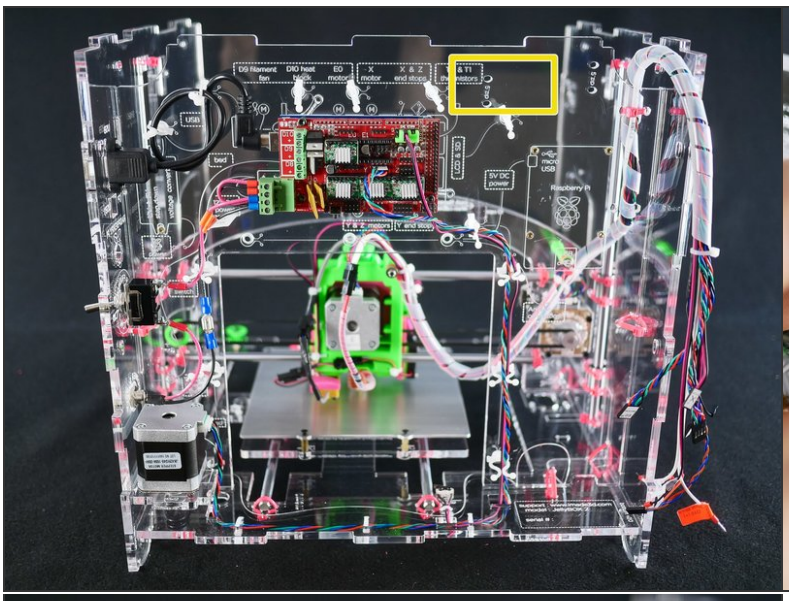
Step 24 — Looking Good!

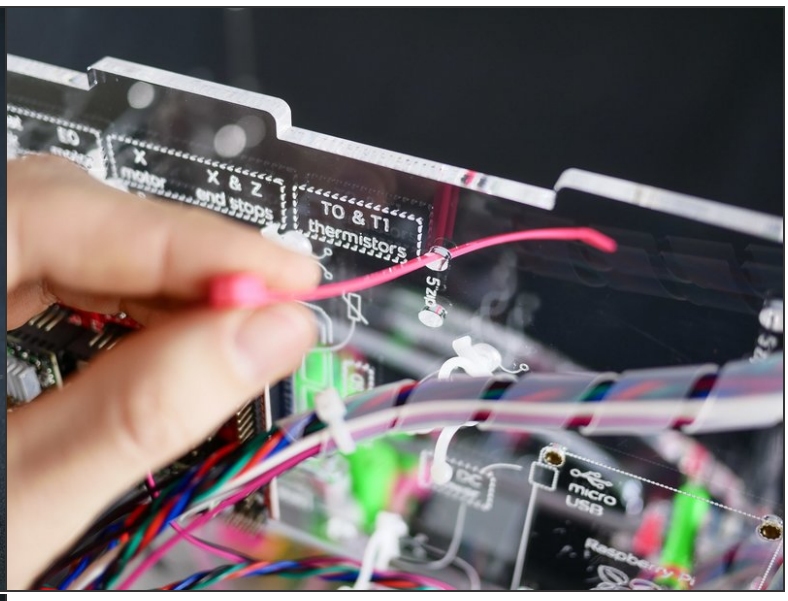


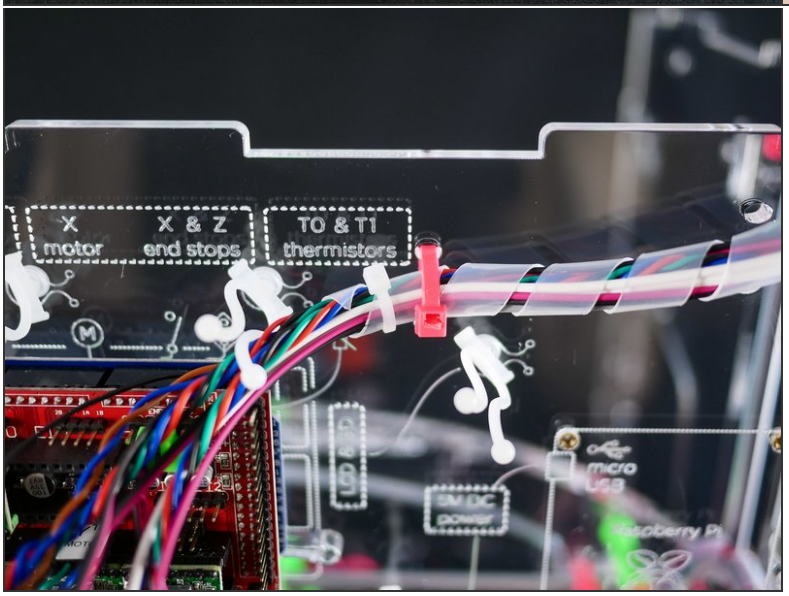
Step 25 — ↳ Wire up the X Assembly



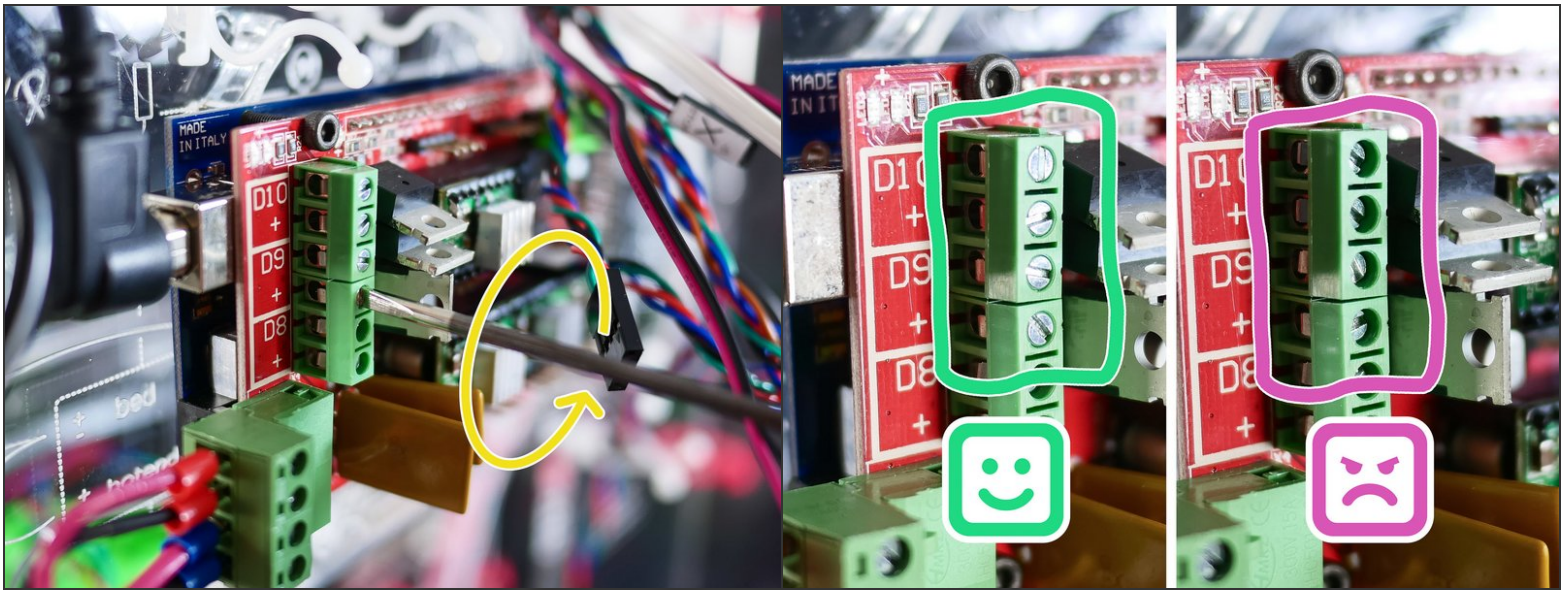
Step 26



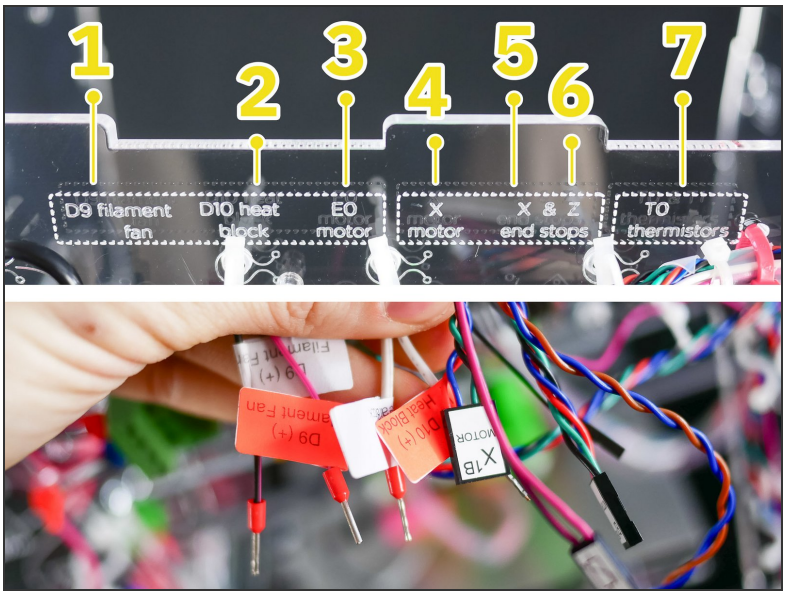

X
motor
X & Z
end stops
T0 & T1
thermistors
micro
USB


X
motor
X & Z
end stops
T0 & T1
thermistors
micro
USB
5V DC
power

Step 27

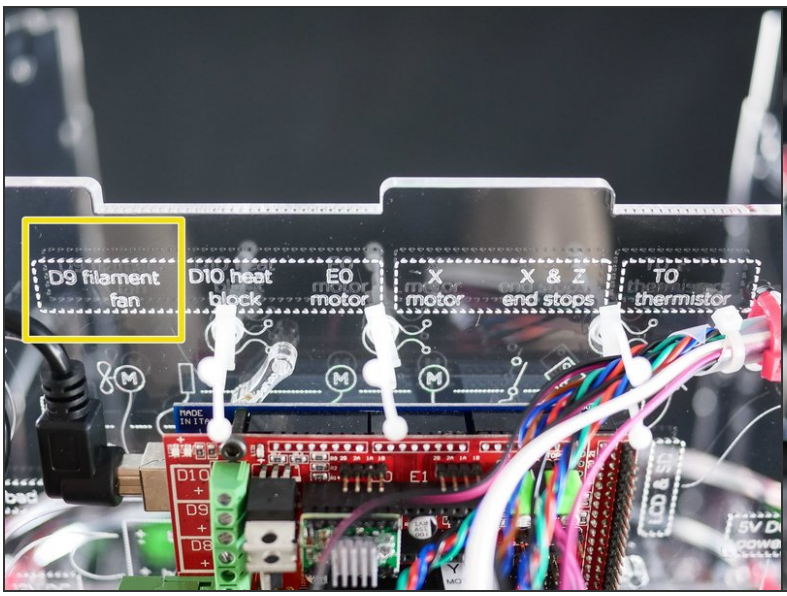


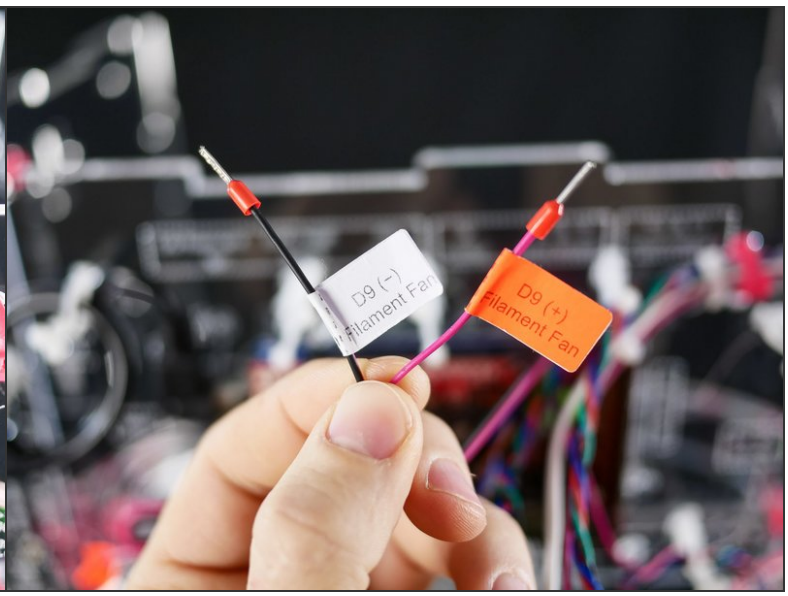
Step 28



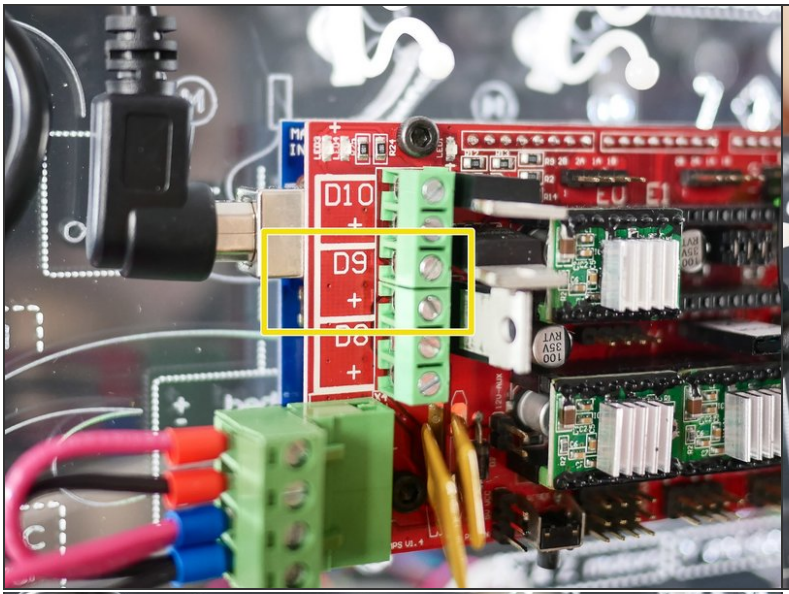
- In short, connect all the wires according to their labels. We'll start on the left.

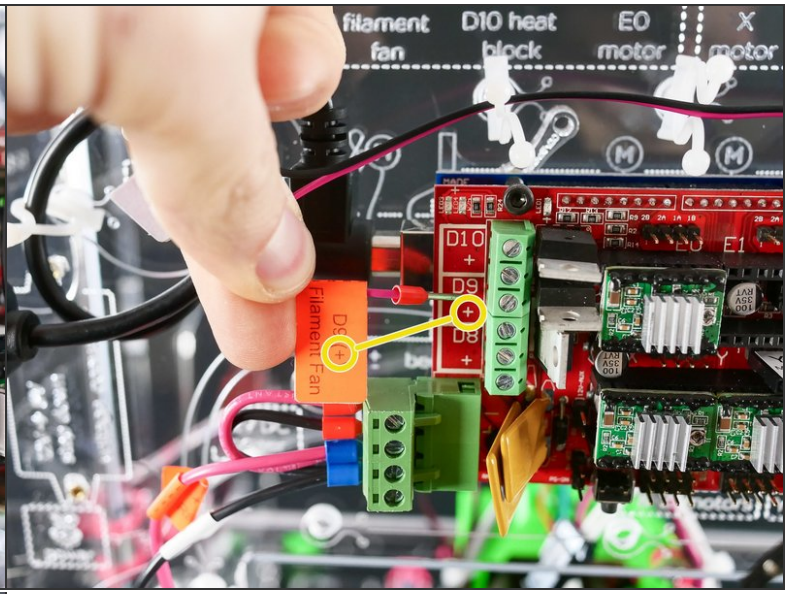
Step 29

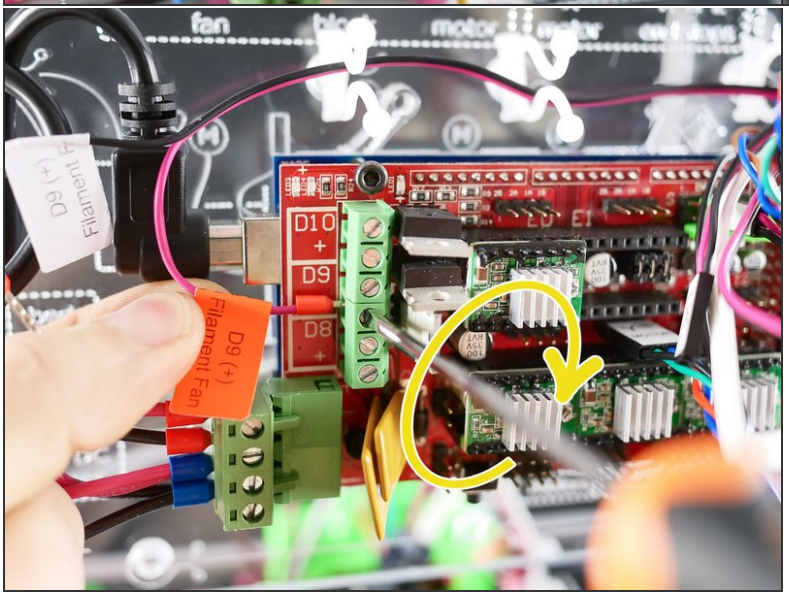

D9 filament fan
D10 heat block
E0 motor
X motor
X & Z end stops
T0 thermistor


D9 (-) Filament Fan
D9 (+) Filament Fan

Step 30

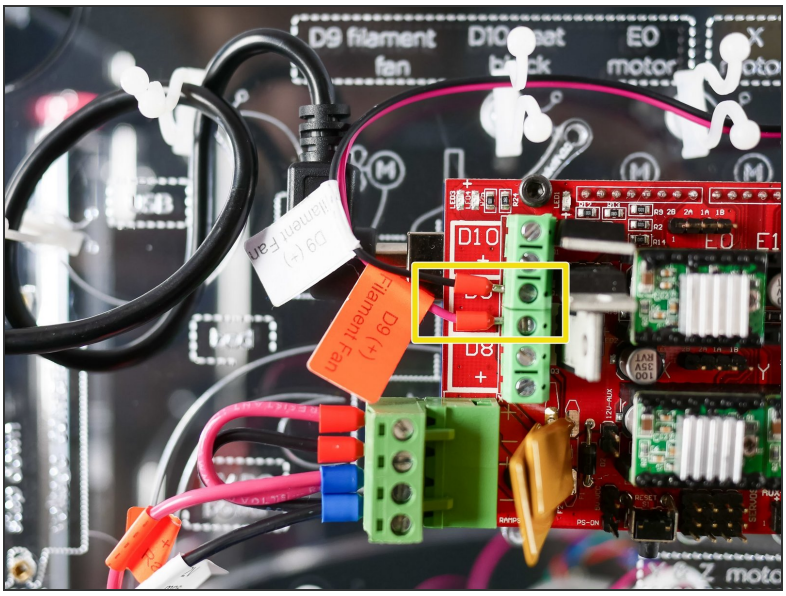






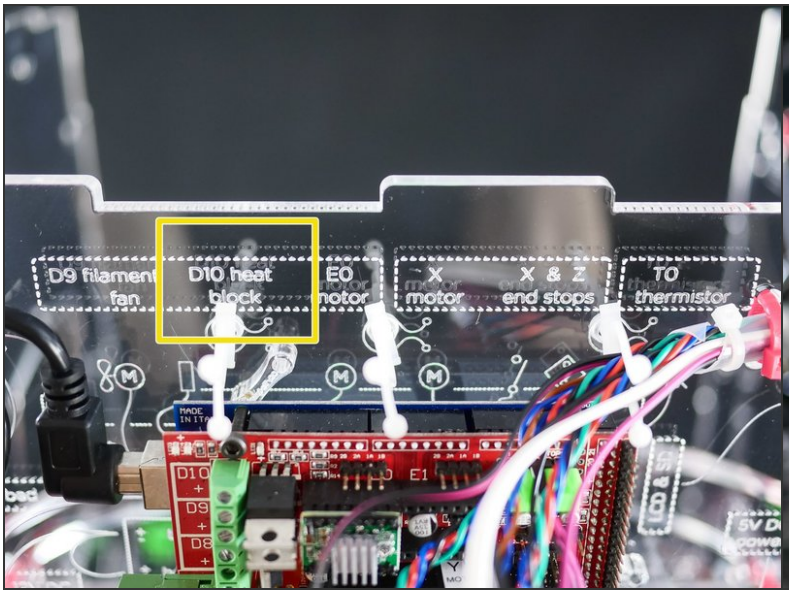
⚠ Make sure to match **plus with plus**...

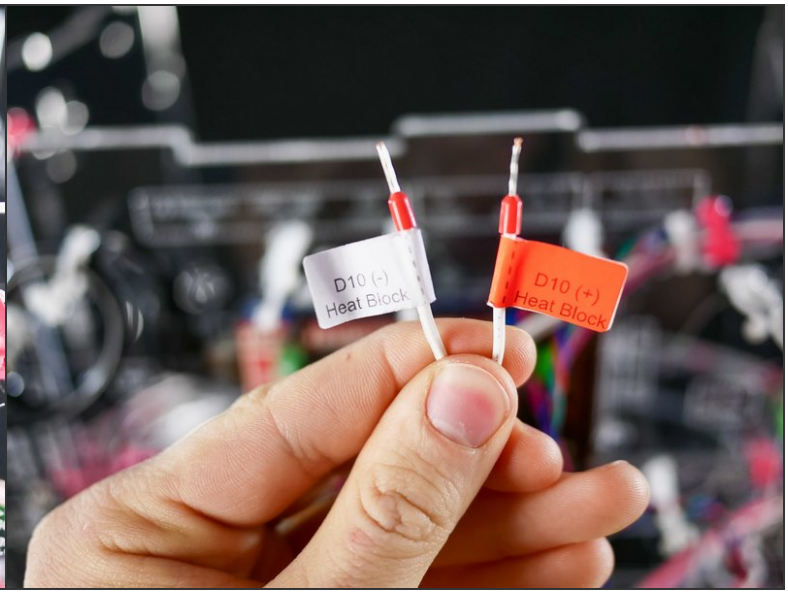
Step 31



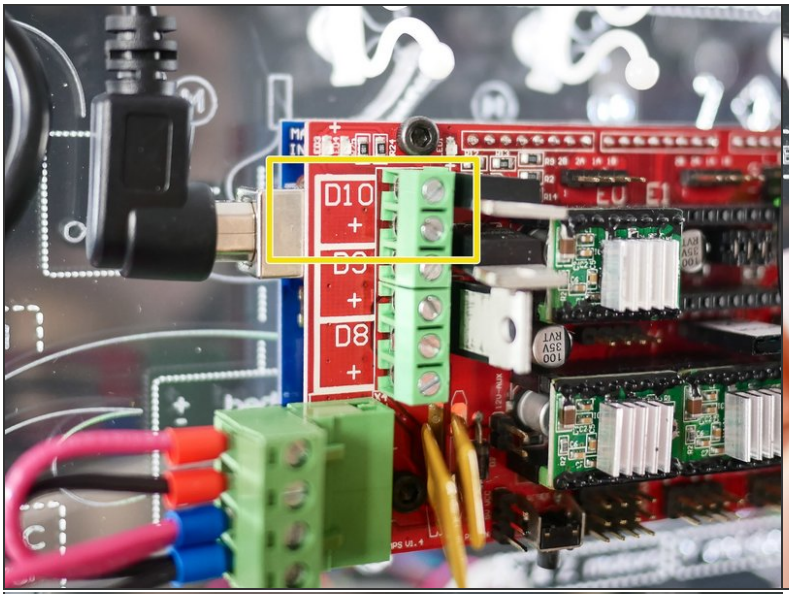
⚠ ... and **minus with minus.**

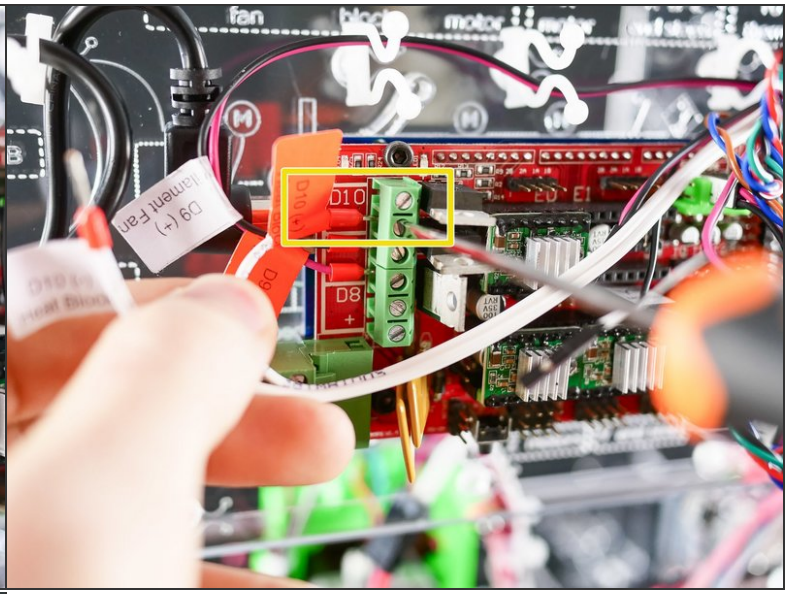
Step 32

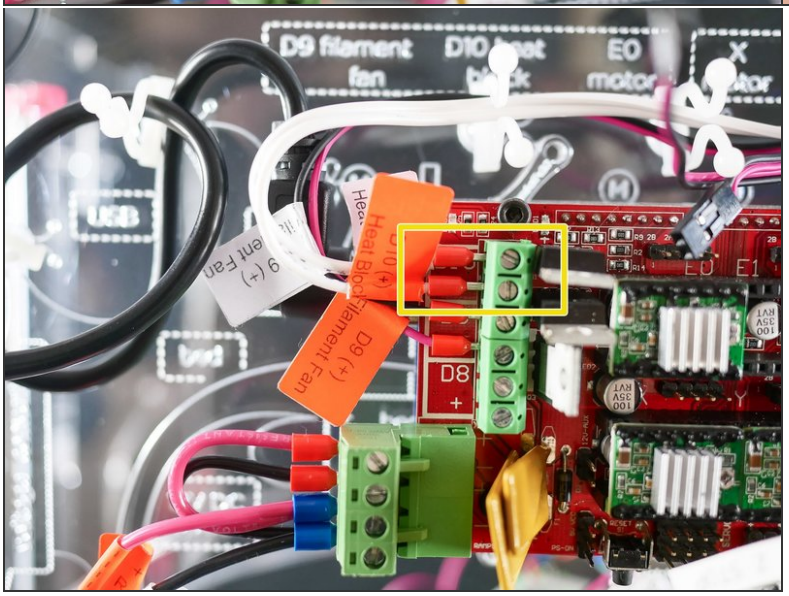




Step 33

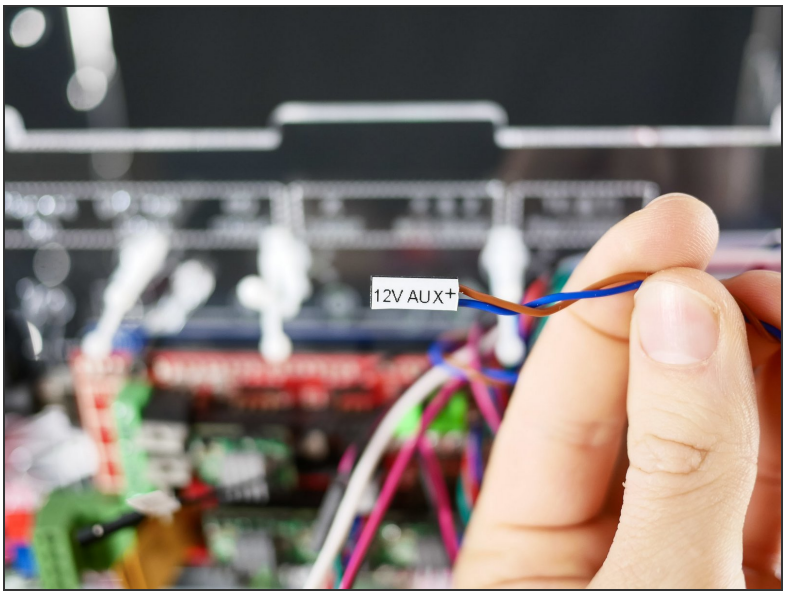






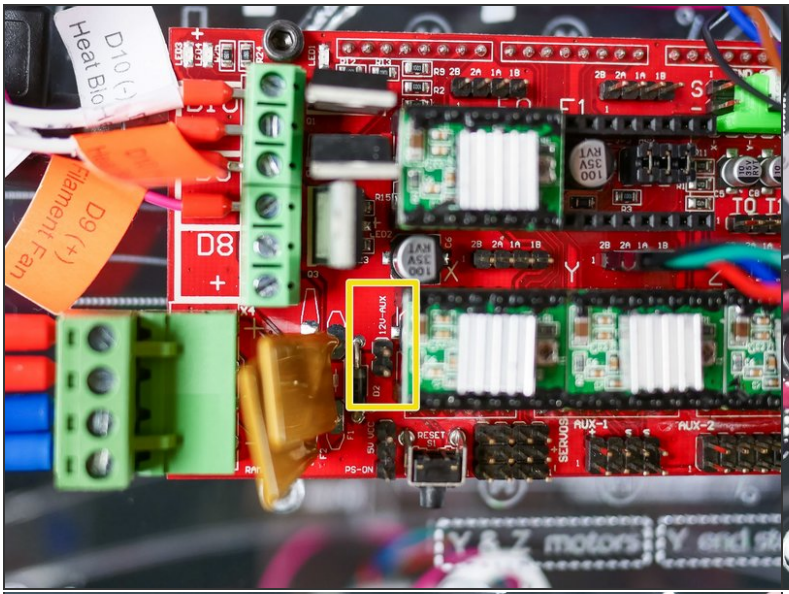
⚠ Make sure to match plus with plus and minus with minus.

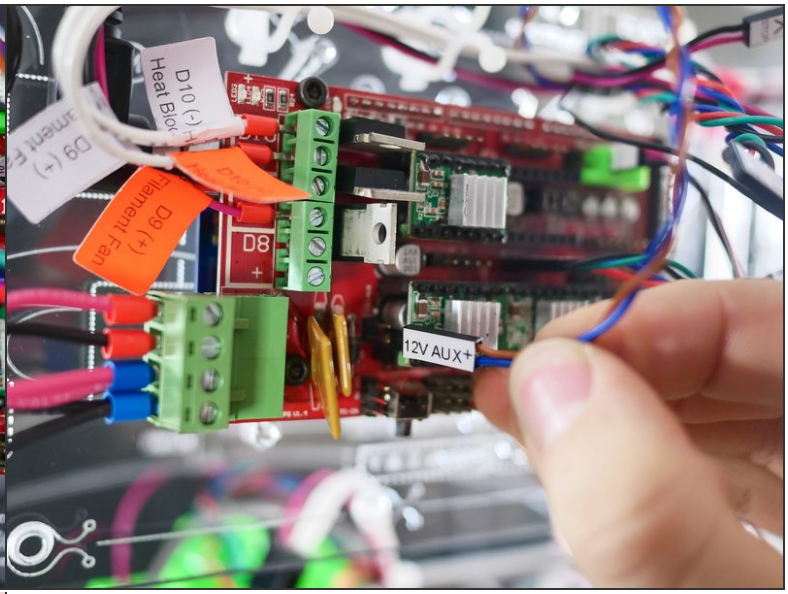
Step 34

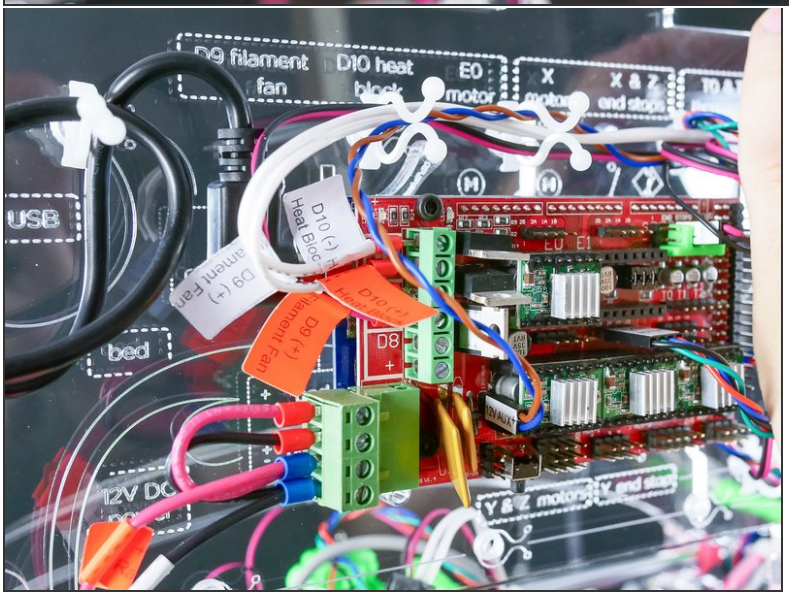


This 12V line powers up the Z Probe and the Hotend fan.

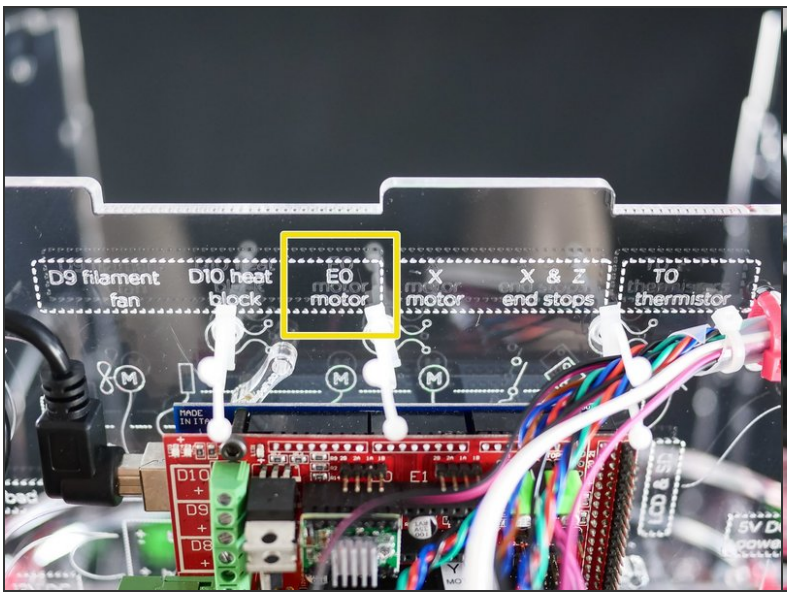
Step 35

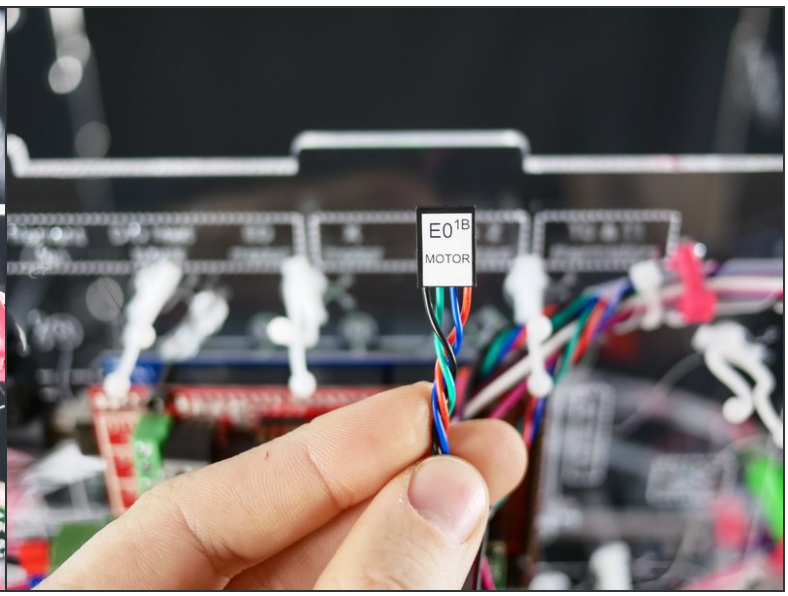

D10 (-)
Heat Block
D9 (+)
Filament Fan
D8
12V-AUX
AUX-1
AUX-2
SERVOS
Y & Z motors


D10 (-)
Heat Block
D9 (+)
Filament Fan
D8
12V AUX+

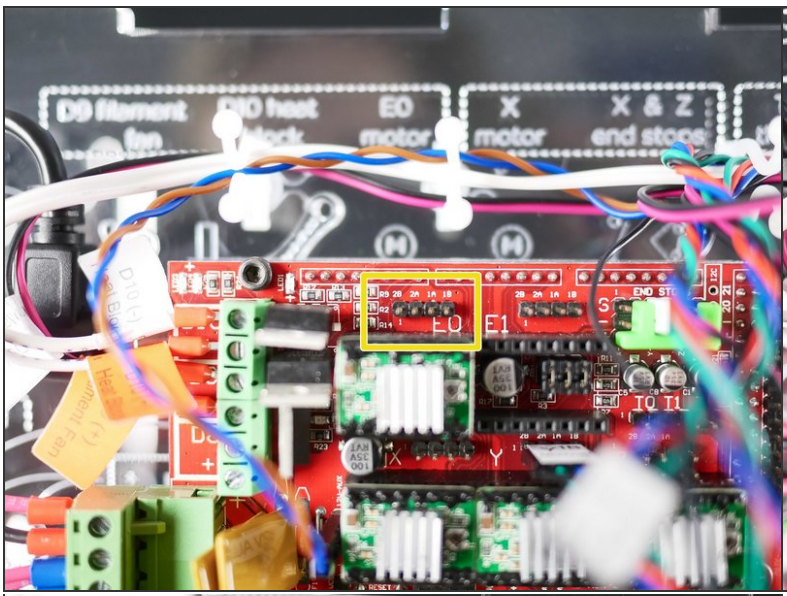

D9 filament fan
D10 heat block
E0 motor
X
X & Z end stops
USB
bed
D10 (-)
Heat Block
D9 (+)
Filament Fan
D8
12V DC
Y & Z motors

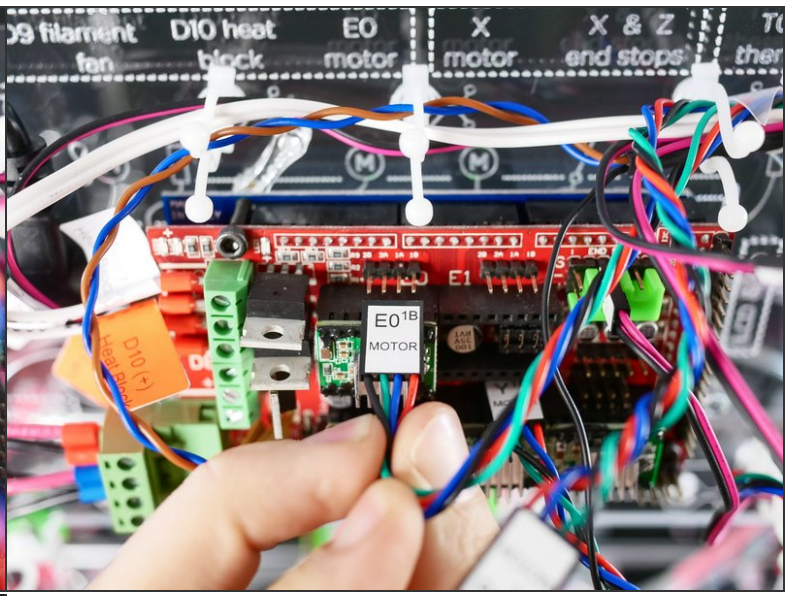
Step 36

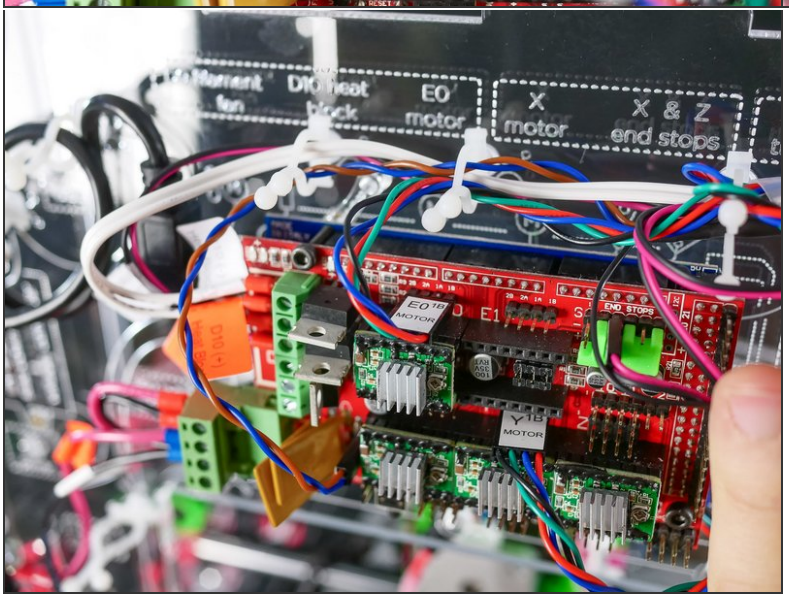

D9 filament fan
D10 heat block
E0 motor
X motor
X & Z end stops
T0 thermistor


E0 1B
MOTOR

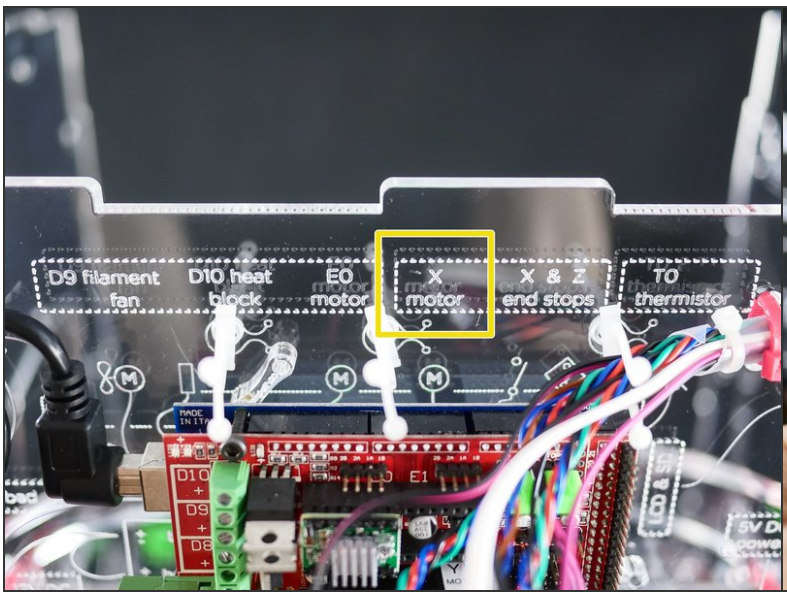
Step 37

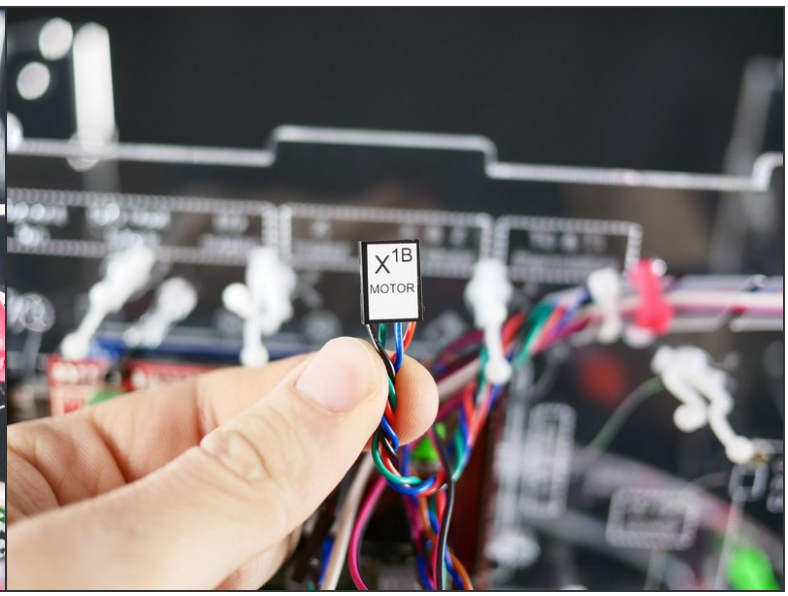

D9 filament fan
D10 heat block
E0 motor
X motor
X & Z end stops
E0
E1


D9 filament fan
D10 heat block
E0 motor
X motor
X & Z end stops
E1
E0 1B MOTOR

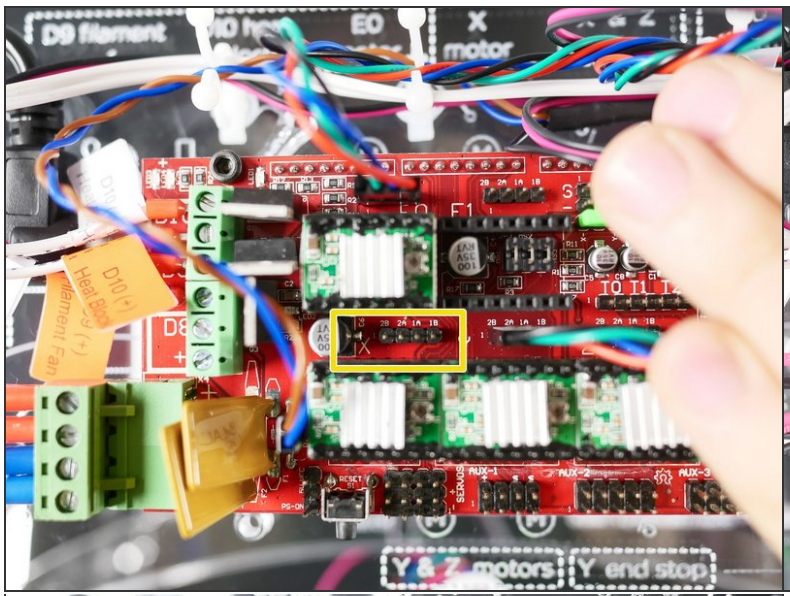

E0 motor
X motor
X & Z end stops
E1
END STOPS
E0 1B MOTOR
Y 1B MOTOR

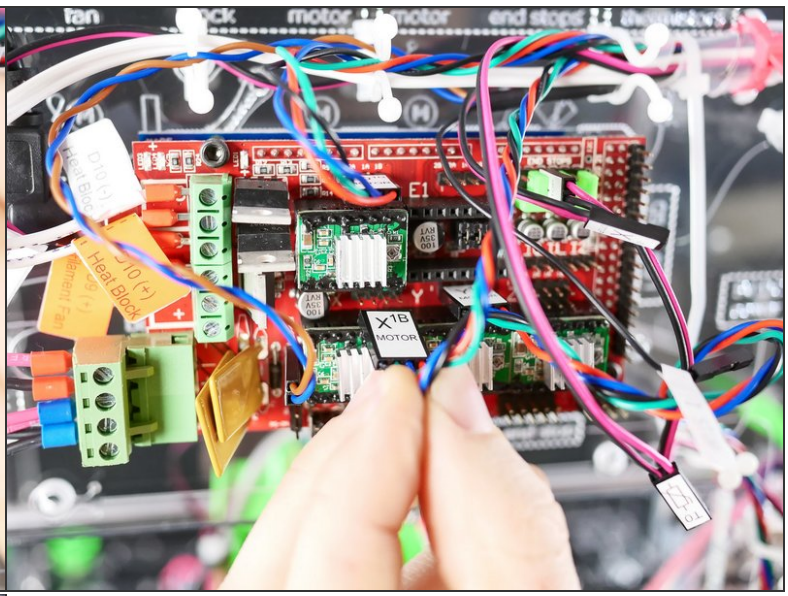
Step 38

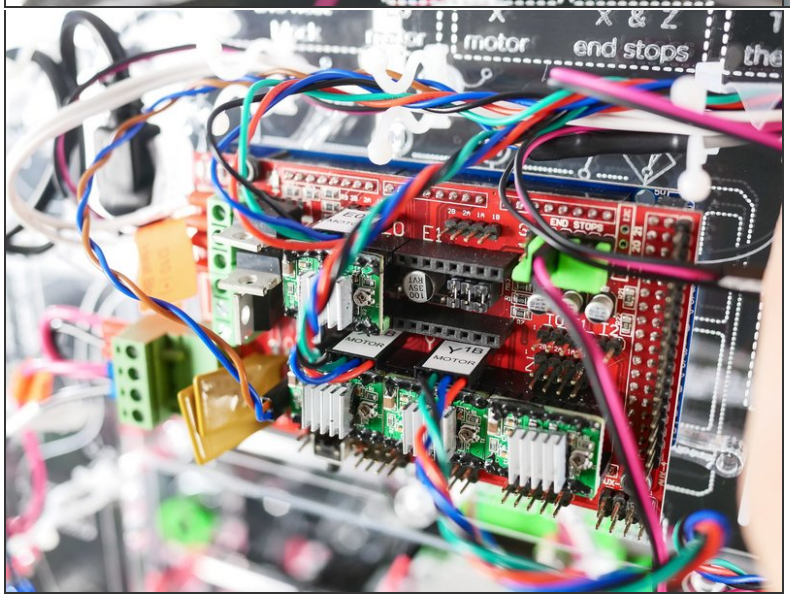

D9 filament fan
D10 heat block
E0 motor
X motor
X & Z end stops
T0 thermistor


X1B
MOTOR

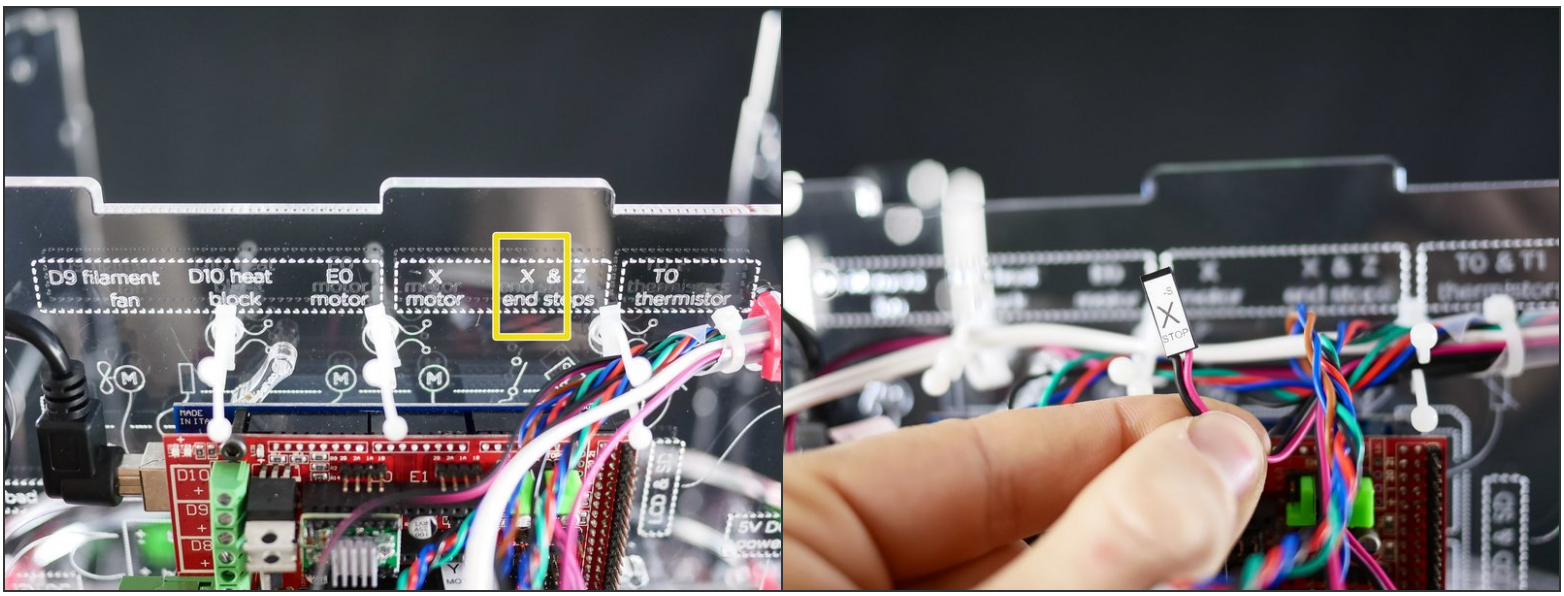
Step 39


D9 filament
E0
X
motor
D10 (+)
Heat Block
Filament Fan (+)
Y & Z motors
Y end stop

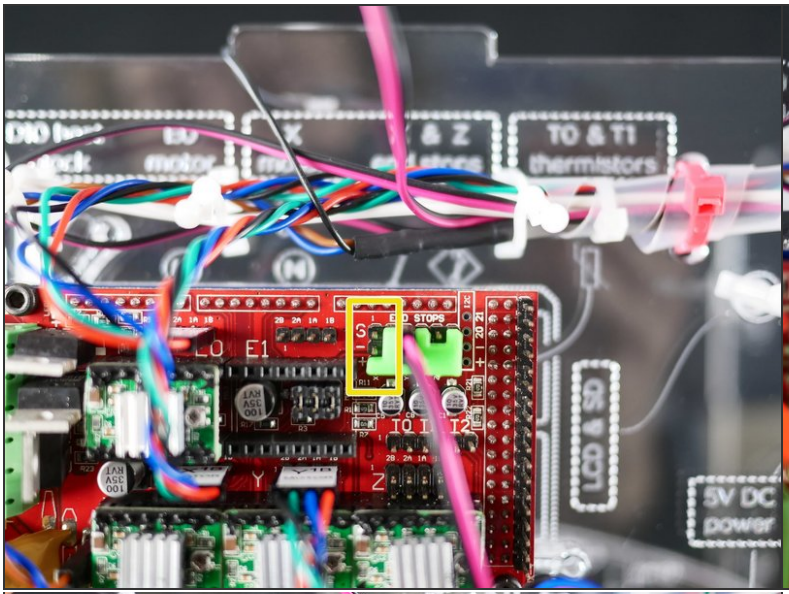

fan
motor
motor
end stops
D10 (+)
Heat Block
Filament Fan (+)
X1B
MOTOR

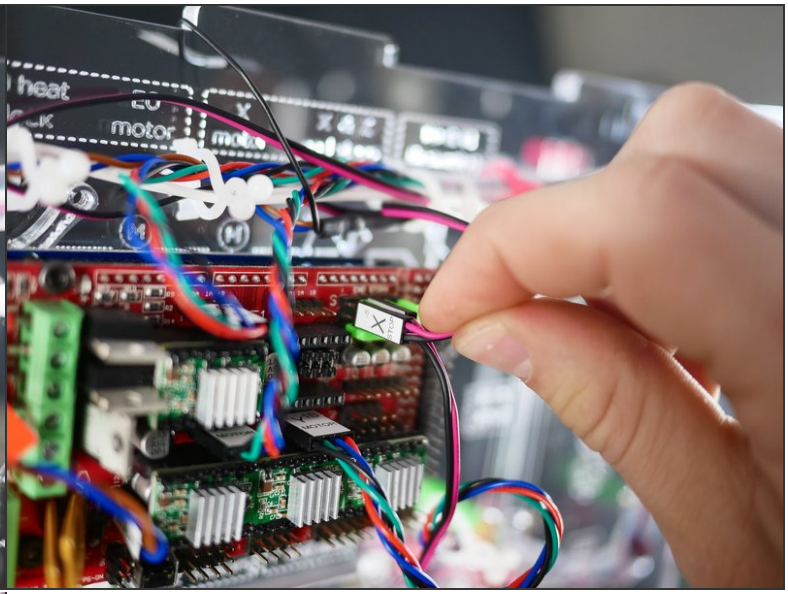

motor
end stops
X & Z
END_STOPS
Y1B
MOTOR

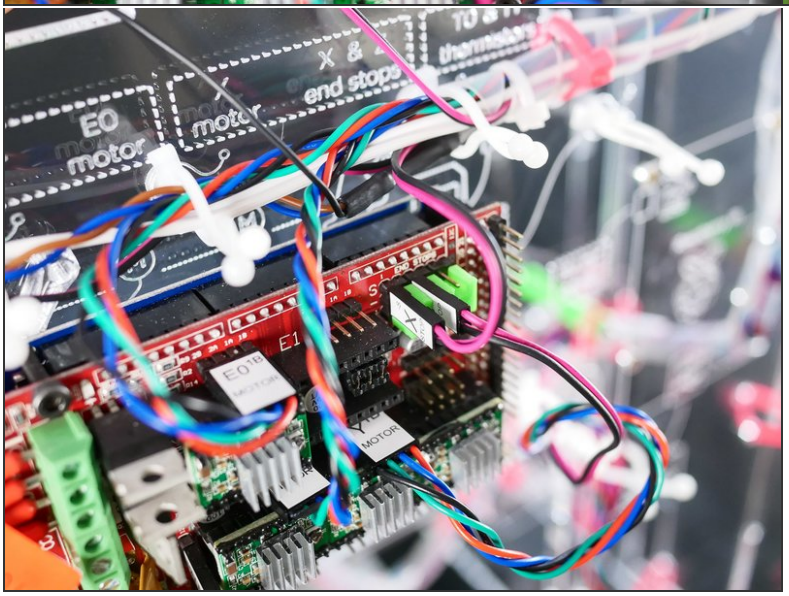
Step 40


D9 filament fan
D10 heat block
E0 motor
X motor
X & Z end stops
T0 thermistor
X STOP
T0 & T1

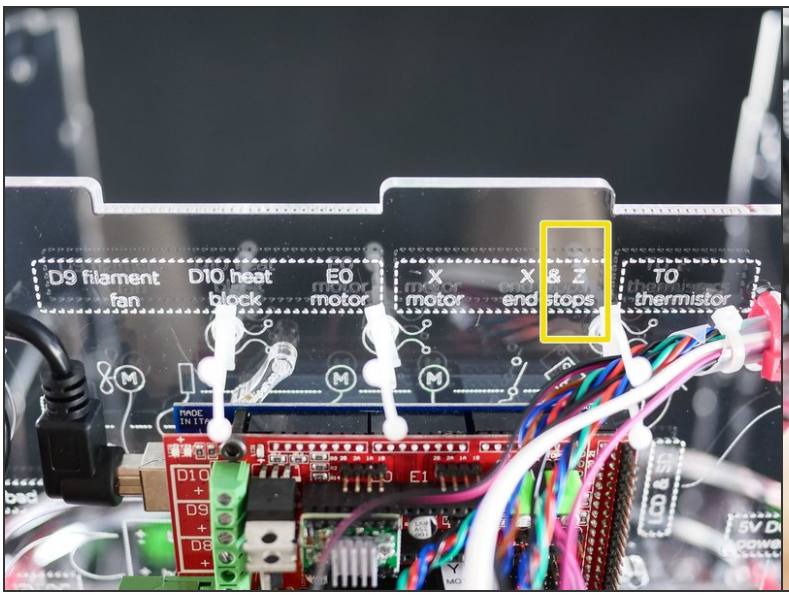
Step 41

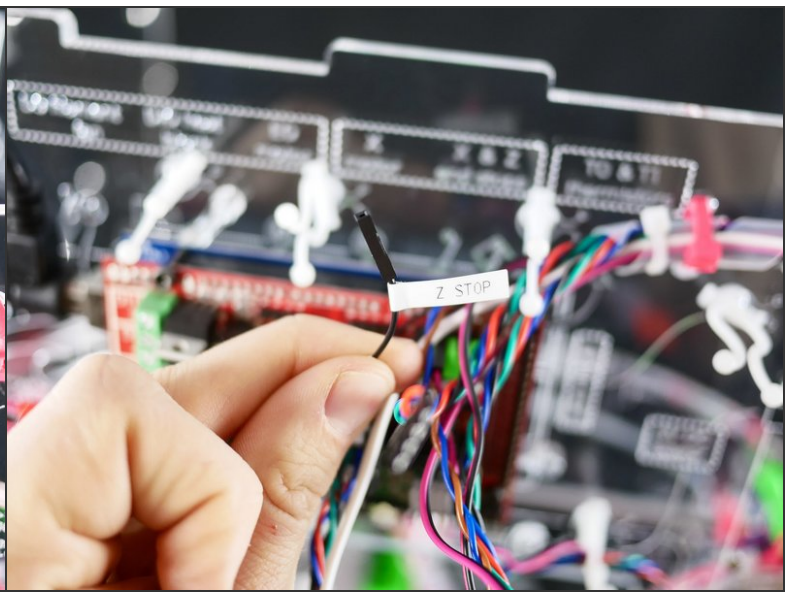

T0 & T1
thermistors
STOPS
LCD
5V DC
power


motor

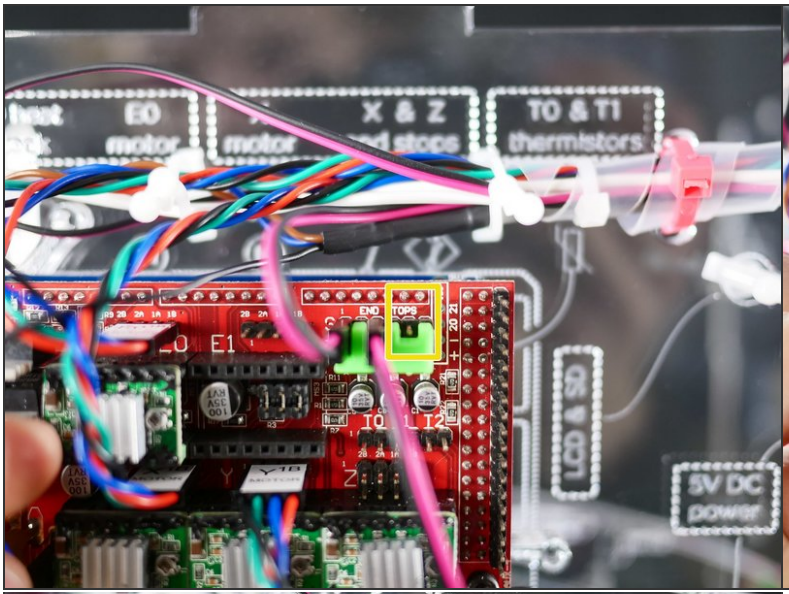

E0
motor
end stops

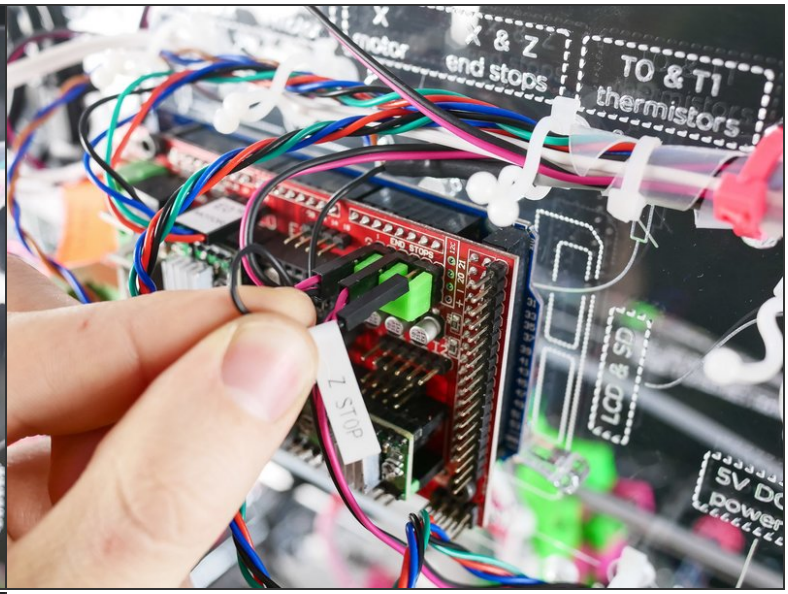
Step 42

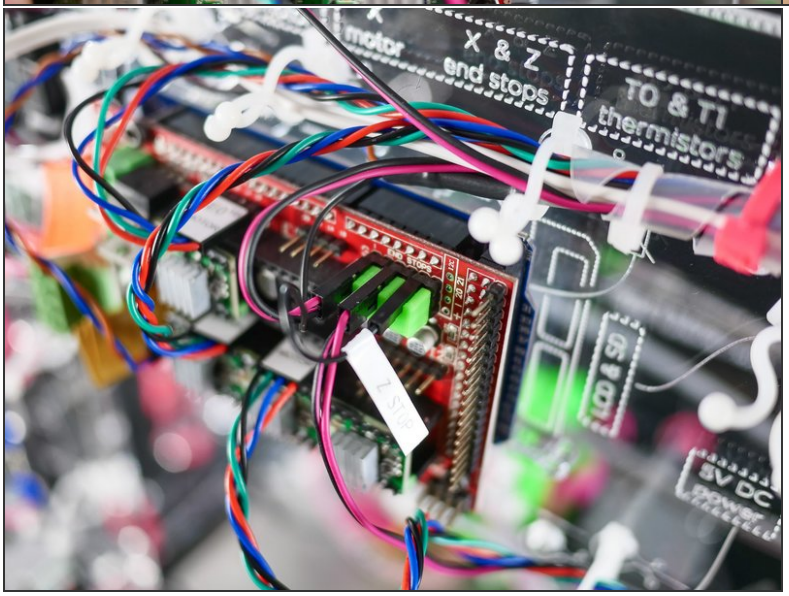

D9 filament fan
D10 heat block
E0 motor
X motor
X & Z end stops
T0 thermistor


Z STOP

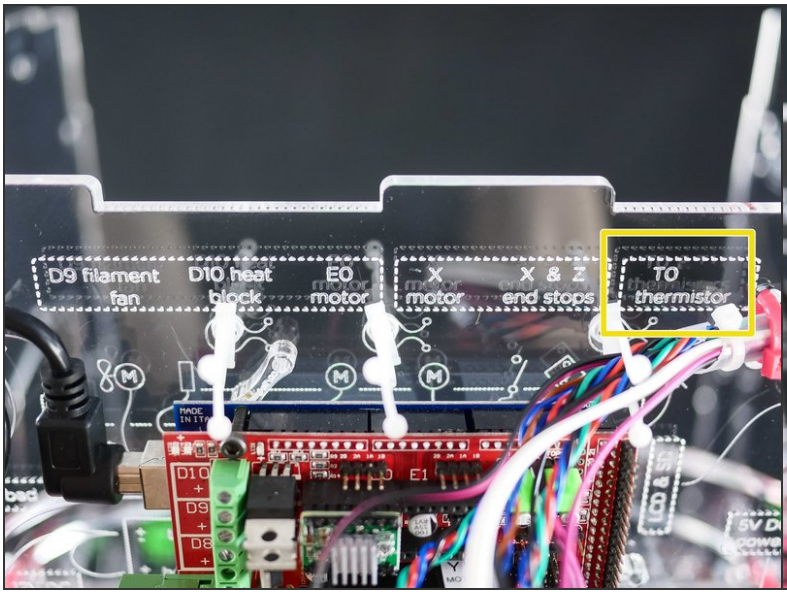
Step 43

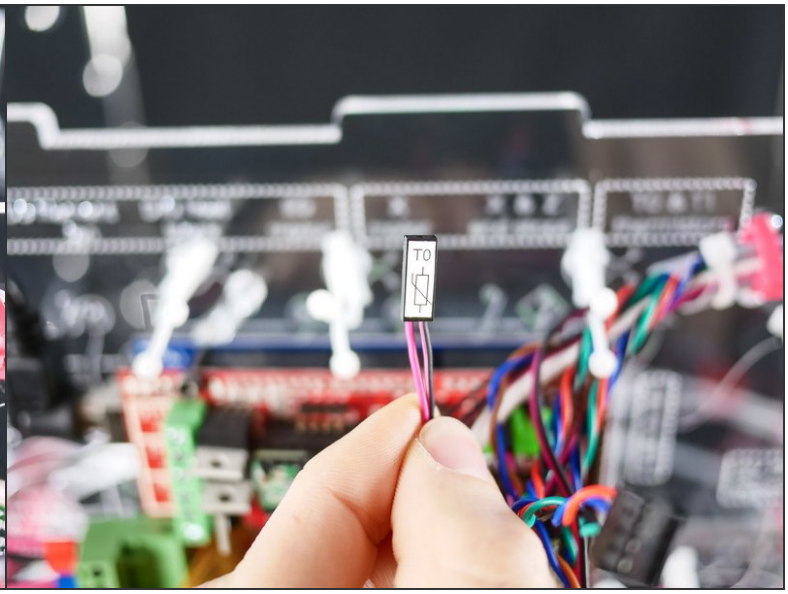

X & Z
end stops
T0 & T1
thermistors
5V DC
power


X & Z
end stops
T0 & T1
thermistors
Z STOP
LCD & SD
5V DC

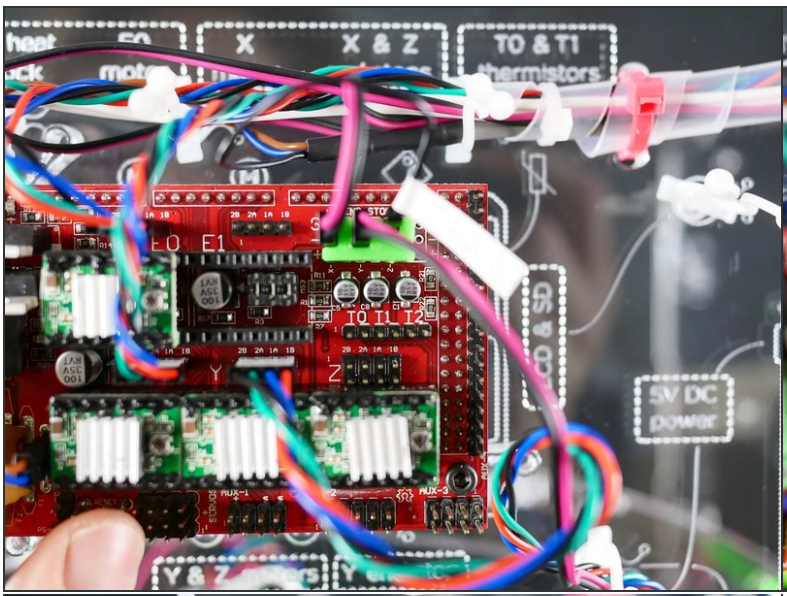

X & Z
end stops
T0 & T1
thermistors
Z STOP
LCD & SD
5V DC

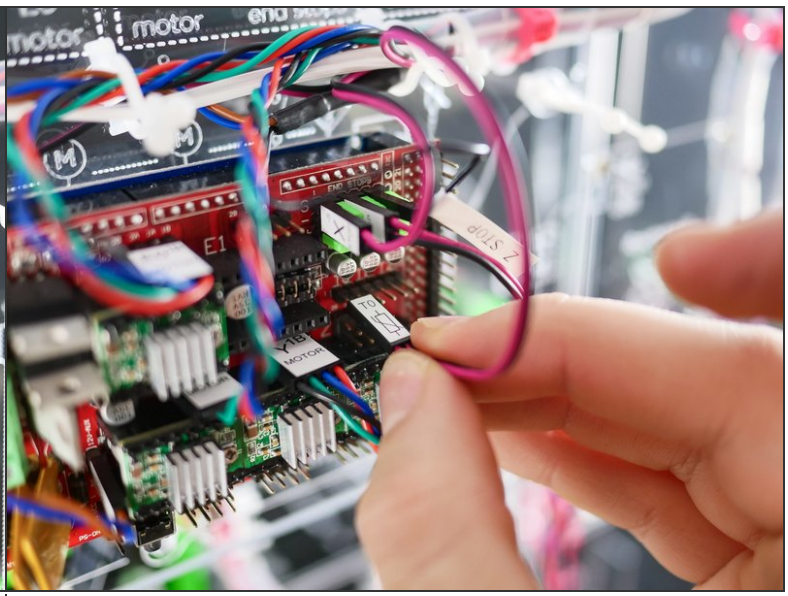
Step 44

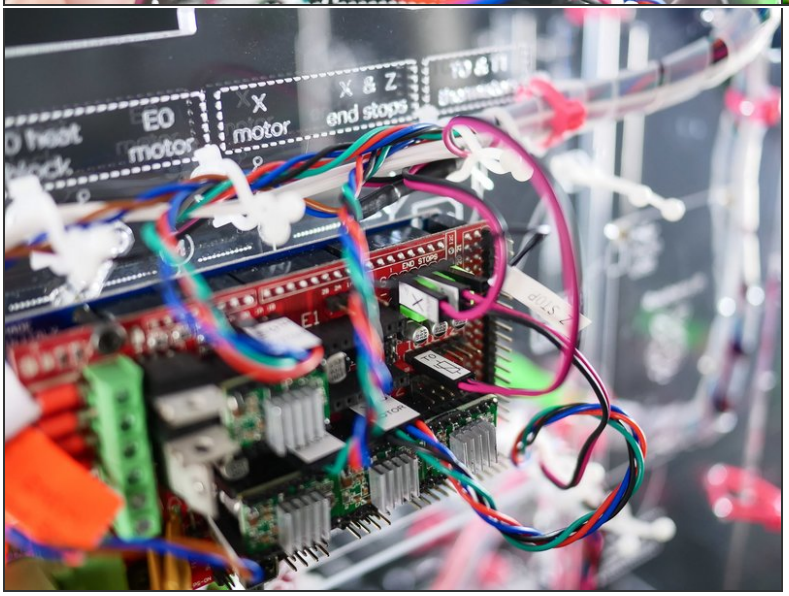

D9 filament fan
D10 heat block
E0 motor
X motor
X & Z end stops
T0 thermistor


T0

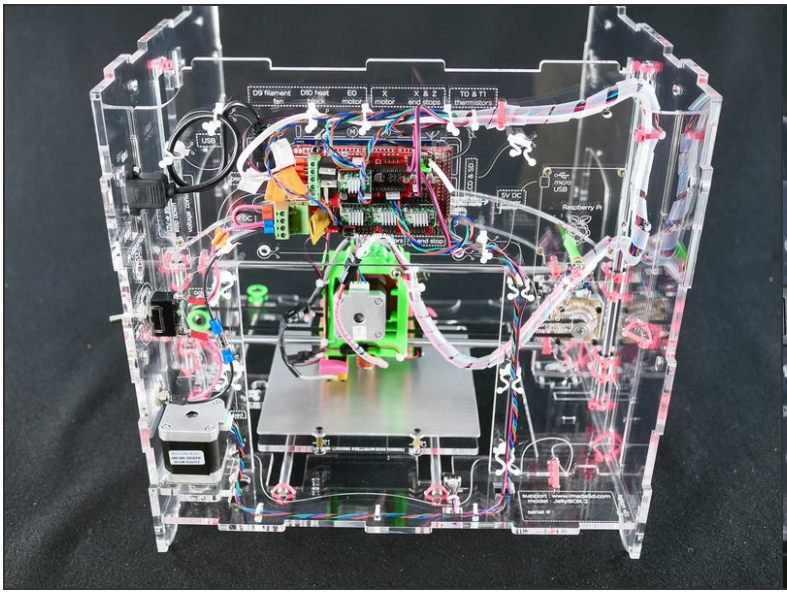
Step 45

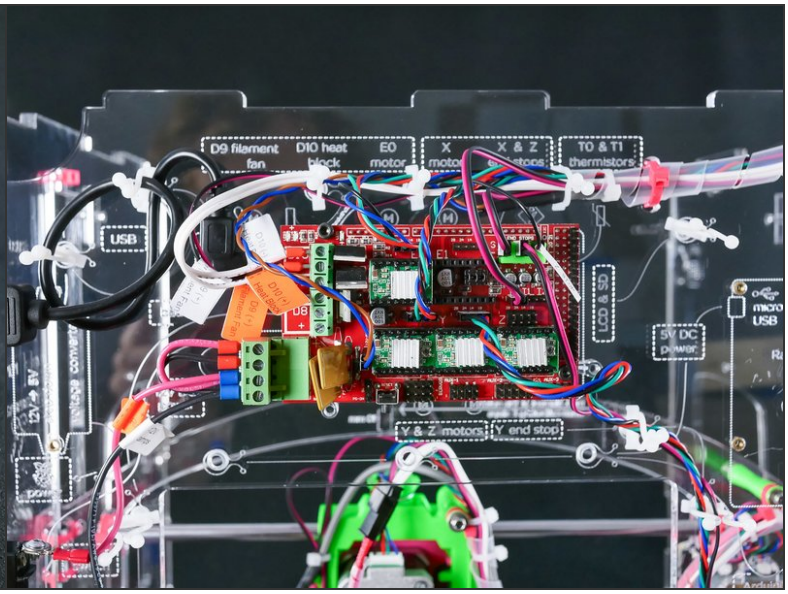

X
X & Z
T0 & T1
thermistors
E0
E1
T0 T1 T2
5V DC
POWER


motor
E1
Y
MOTOR


E0
motor
X
motor
X & Z
end stops
E1

Step 46 — It's wired up!





You have installed the X assembly. This is arguably the longest and most complicated part of the whole build, so, kudos!

What's Next?

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