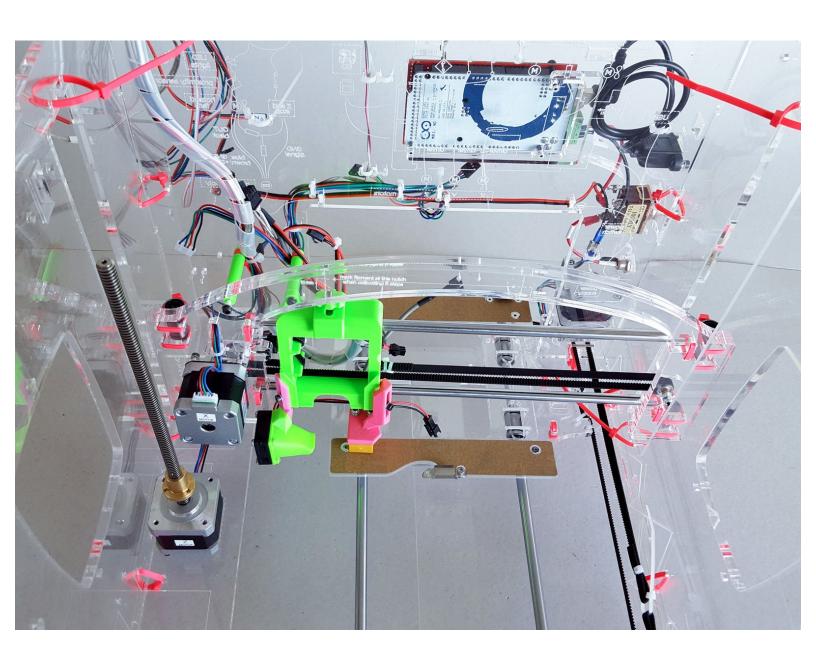
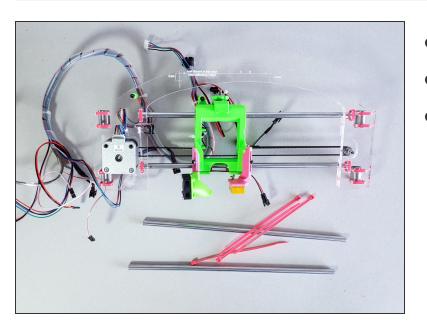


Install the X Assembly

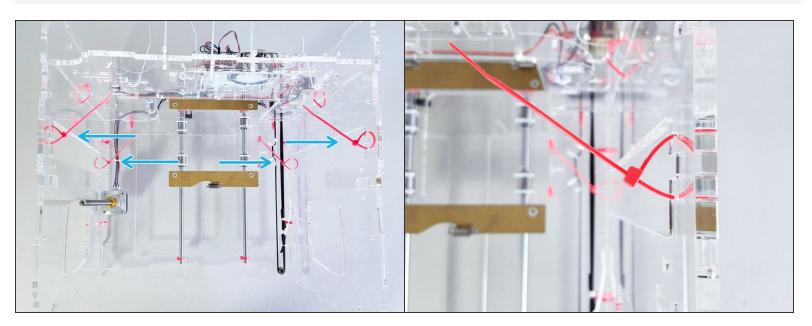


Step 1 — ↳ Install the X Assembly

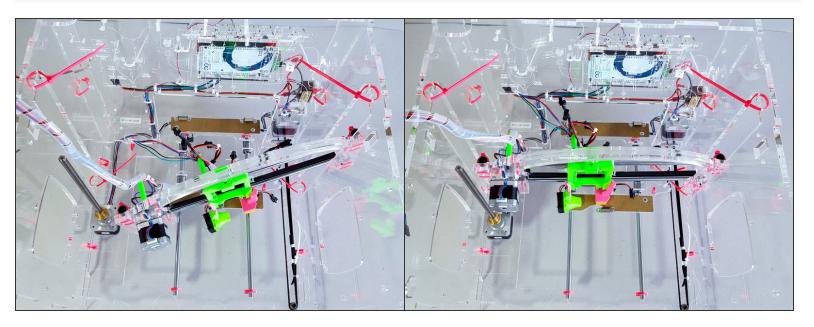


- X assembly
- 5" zip ties
- Smooth rods (2)

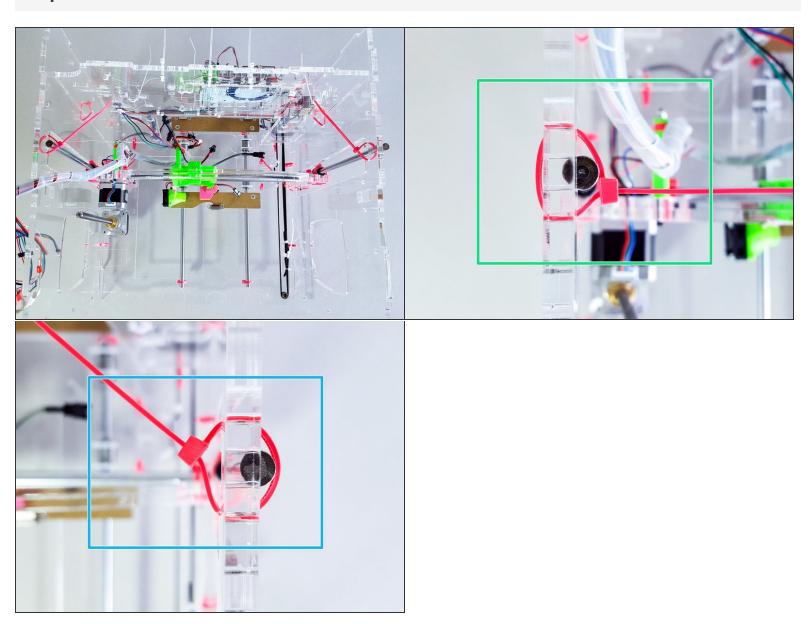
Step 2



Loosely place 4 zip tie loops on either side of the printer - head on the inside.

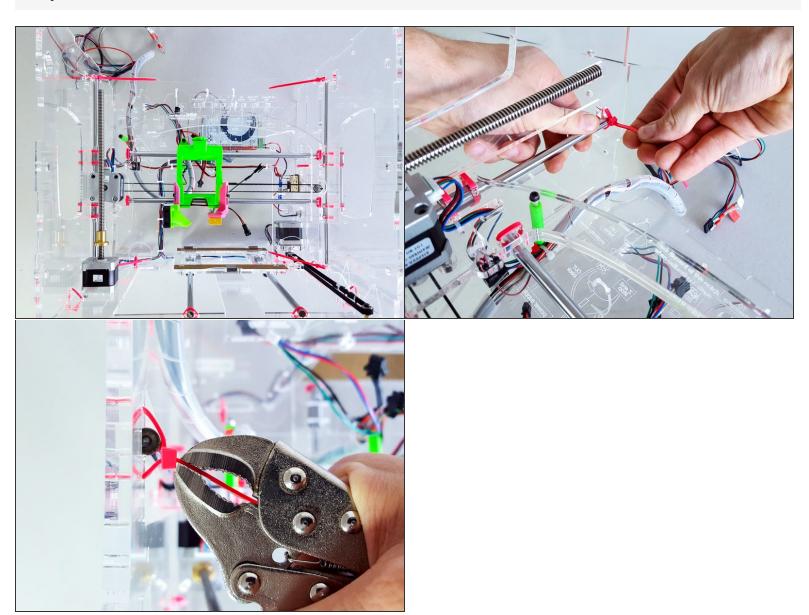


Put the X assembly inside the box.



- Slide in the rods through the loops AND the bearings.
- The **left** rod is on the **inside** of the box.
- The right rod is on the outside of the box.

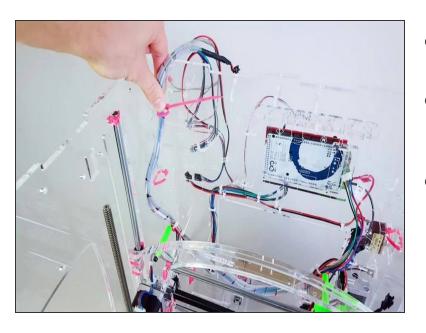
A Careful; if you force the rods at an angle you may knock out some balls from the bearings.



- Place the box on its back to alleviate gravitational pull.
- Make sure the rods are in their slots.
- Tighten and trim the zip ties.

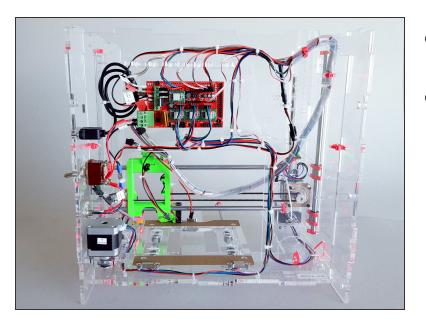


o 5" zip tie loop, keep loose

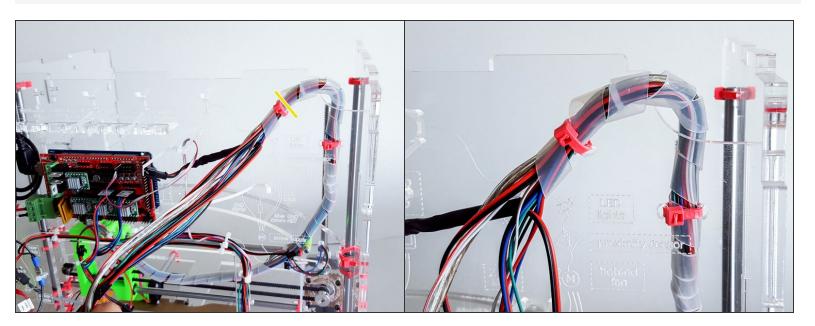


- Hold the x wire harness in place with your hand, and move the x assembly up and down.
- Adjust the mounting point as needed so that the harness is folding nicely and predictably.
- Tighten in place.

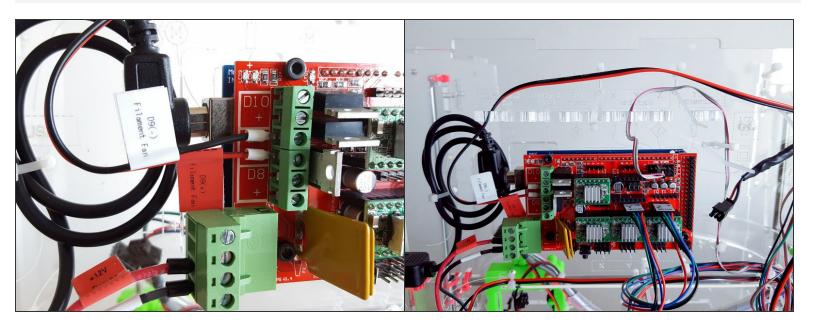
Step 8 — → Wire Up the X Assembly



- In short, connect all the wires according to their labels.
- Then we'll clean it all up.



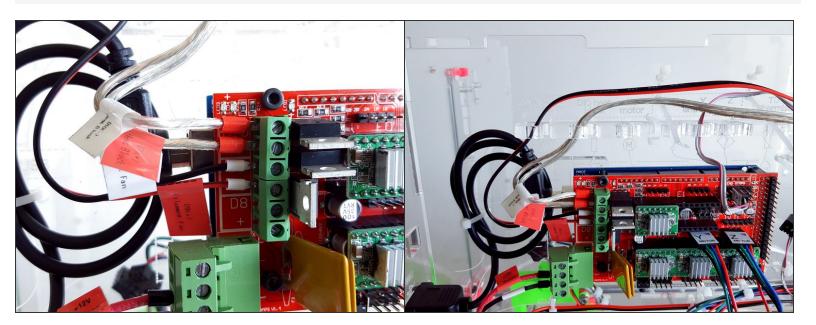
- 5" zip tie
- First, secure the whole harness with a 5" zip tie. Now, no motion from the X or Z axis will disturb our electronic connections.



Filament Fan: D9

+ and - matter!

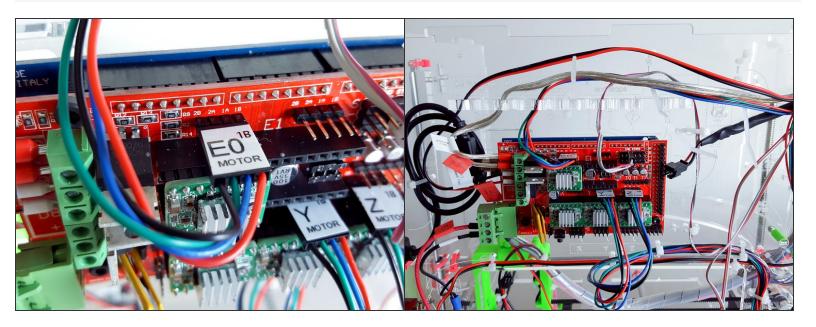
Step 11



Heat block: D10

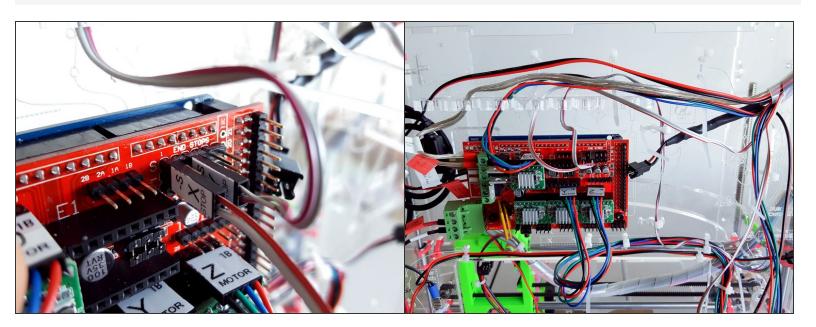
+ and - matter, because we also power the hotend fan from these wires.

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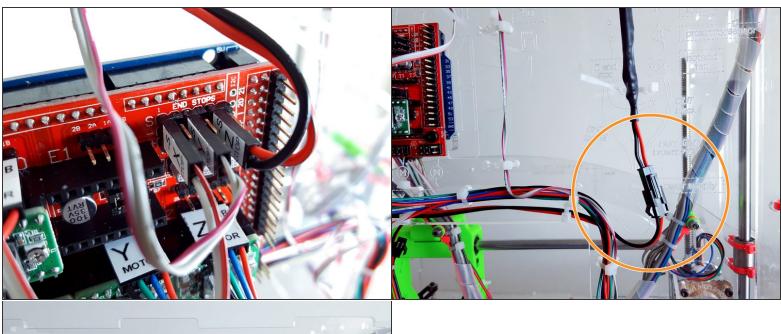


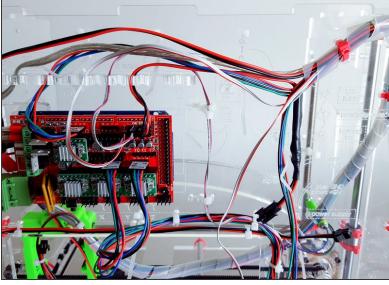
● E motor: E0

Step 13

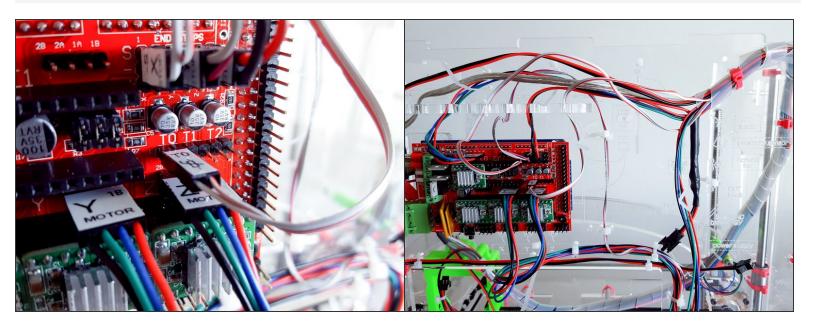


X Endstop: END STOPS: X



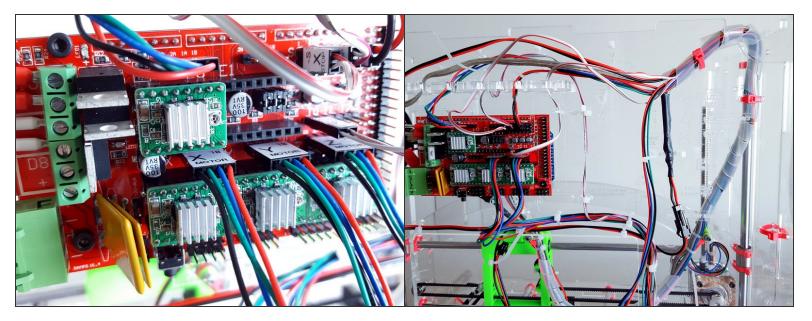


- Z Endstop: END STOPS: Z
- Connect the Z Probe external power supply.
- Z Endstop = Z Probe, being a proximity sensor, need a separate power source.



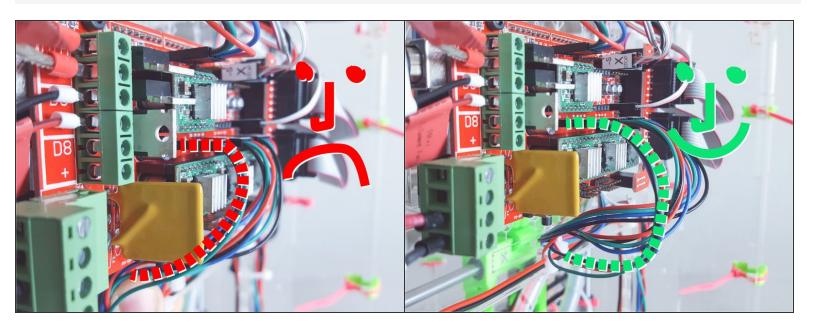
Thermistor: T0

Step 16



X motor: X

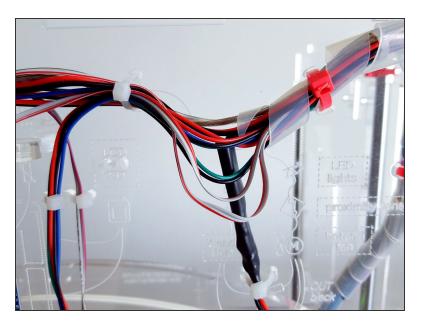
Step 17 — Wiring Concept: Slack



↑ It is essential that you do NOT pull on the wires and the connectors.

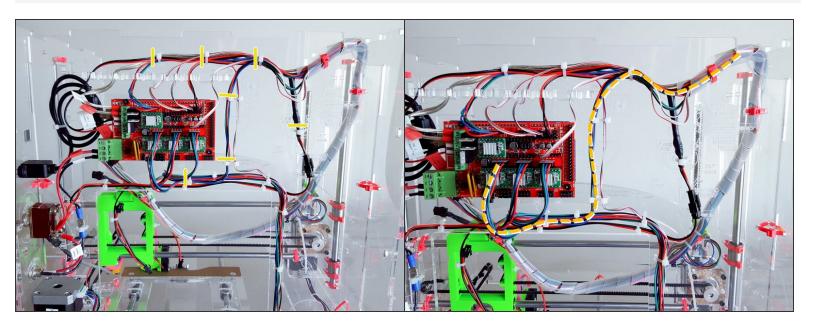
- Always leave enough slack in the wire, creating signature 'loops'.
- Giving your wires room will prolong the life of your printer and lead to less issues with electrical connections.

Step 18 — Wiring Concept: Overflow



- You'll always end up with some wires a bit longer than you may wish.
- You can pull in a bend where the harness exits the spiral wrap to adjust the wire lenghts in a controlled, elegant fashion.

Step 19 — Clean up the Wires



- 4" zip ties
- The X wire takes a scenic route, but it's worth it for the beauty of organization.