

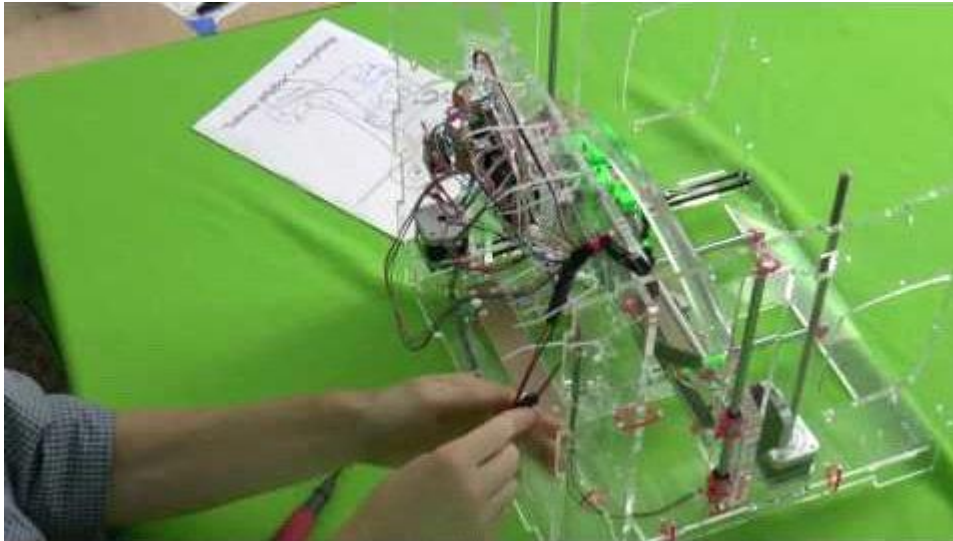


# #electro Wiring 04: X Assembly Harness

## Relevant Additional Sources

		
multimeter practice	jellybox wiring	jellybox inner bac...

## [JellyBox Build: 17 Wiring 04 - X Assembly Harness](#)



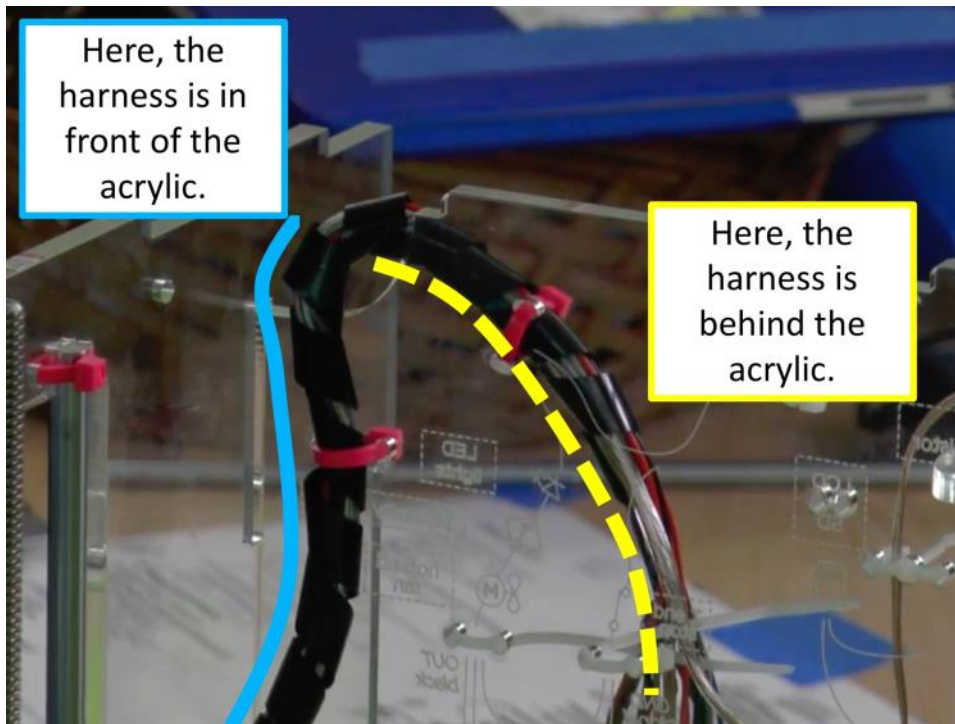
In this video, we wire up the X axis.

FAQ: Does the PLUS and MINUS matter for \_\_\_\_\_ wire/component?

- In general, if it's a simple **resistor** like **heat block** or **thermistor**, it does not matter.
- For **fans**, it matters.
- If and when it matters, we do indicate plus and minus on the wire labels!

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Title: Zip Tie the X Wire Harness to the Inner Back

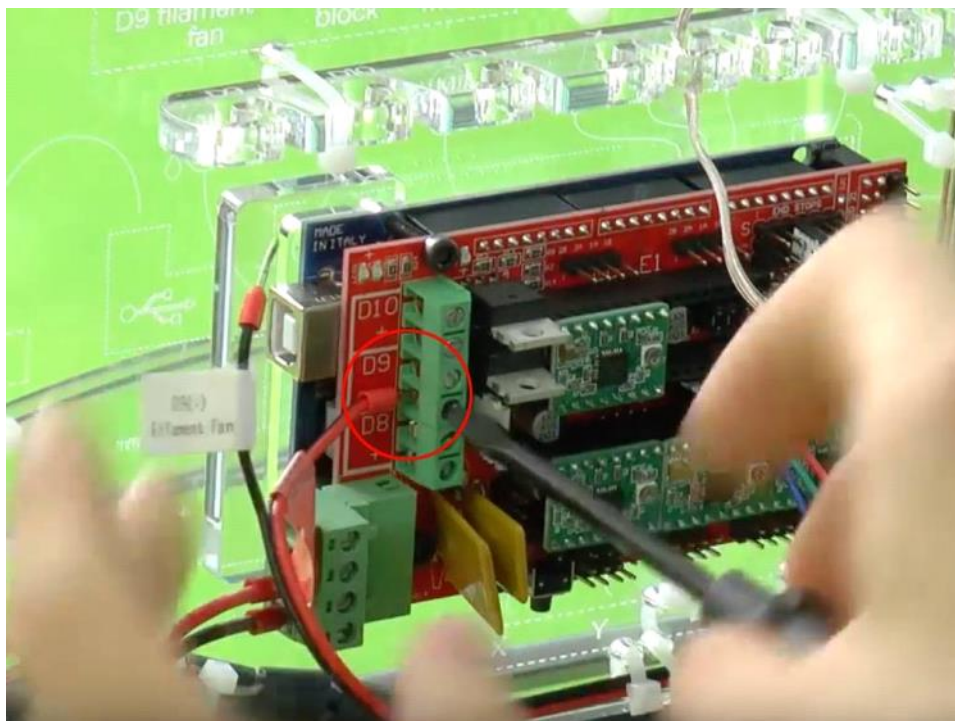


- Use two 6" zip ties to secure the X wire harness to the inner back piece.
- Make sure there's enough slack as the X assembly travels along the Z axis. (See video.)
- Don't make the corner too tight.

### Title: Connect the Wires

**In short: connect all the wires according to their labels.**  
(See below or see the video to get help with specific wires.)  
**Then we'll clean it all up.**

### Title: Filament Fan Wire



Connect the filament fan wire to D9 on the RAMPS board.

Place the loop of the wire in the wire comb.

Be sure to leave plenty of slack!

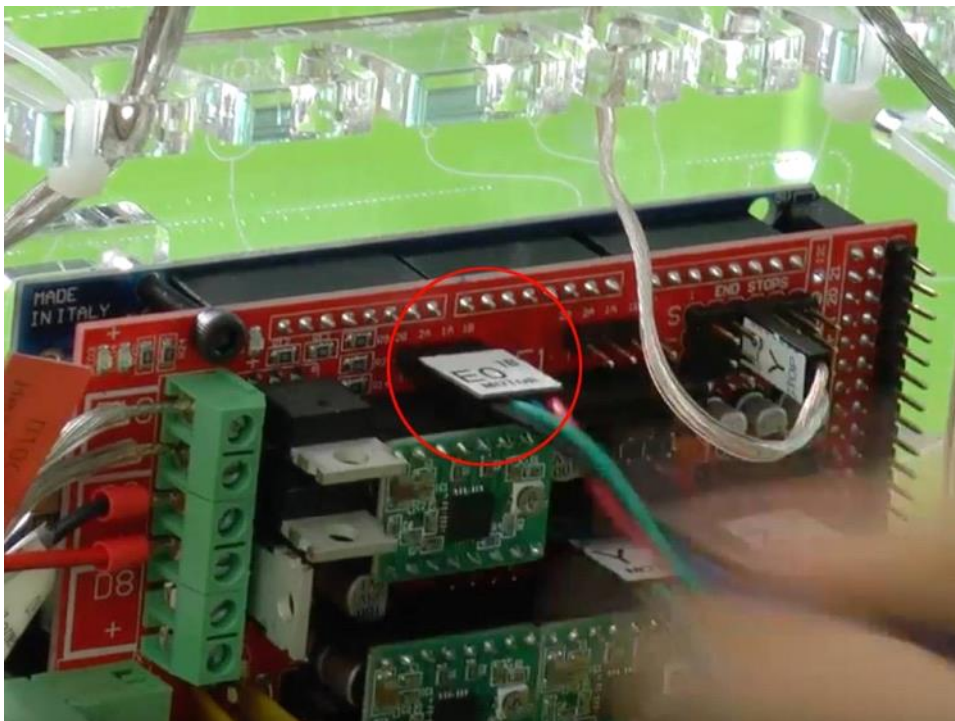
**If the fan is wired backwards it will not turn on and eventually will burn out - we'll check for this later during 'waking up phase.'**

#### Title: Connect the Heat Block



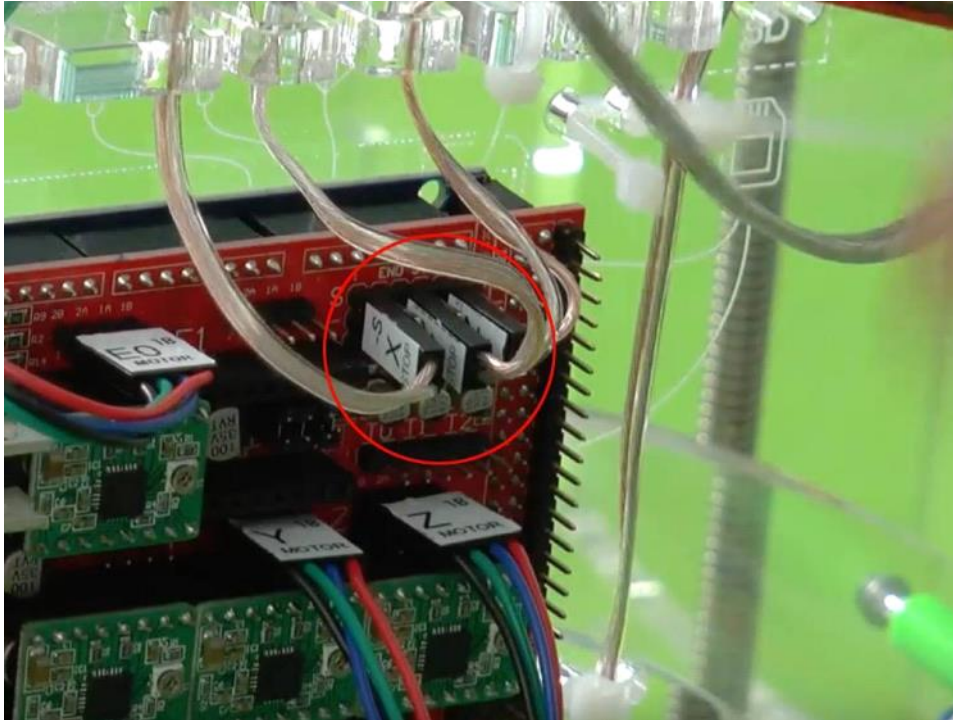
Connect the heat block wires to D10 on the RAMPS board.

#### Title: Connect the Extruder Motor



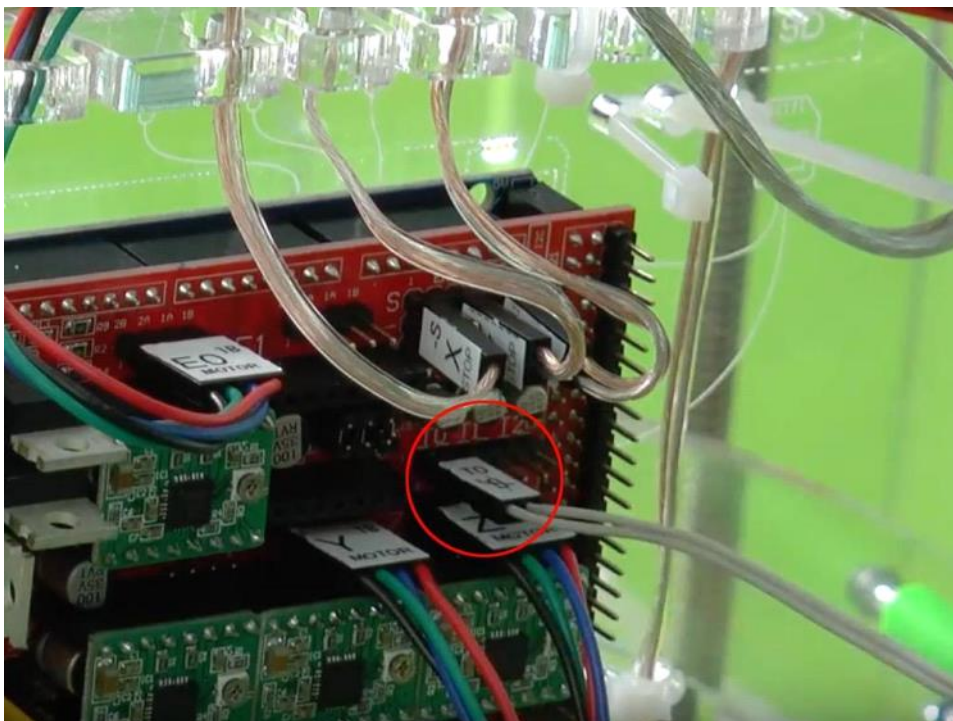
Connect the extruder motor to E0 on the Ramps Board.  
Make sure the label is facing upwards.

### Title: Connect the X and Z Axis End Stops



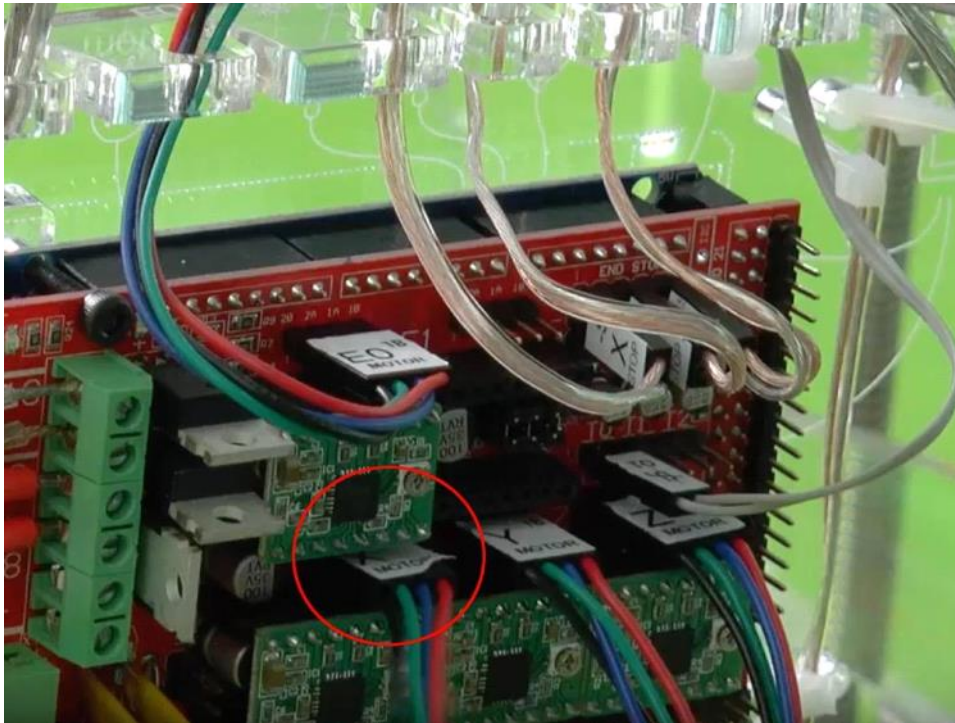
Connect the X and Z axis end stops next to the Y end stop connection.  
Make sure the labels are facing left.

### Title: Connect the Thermistor



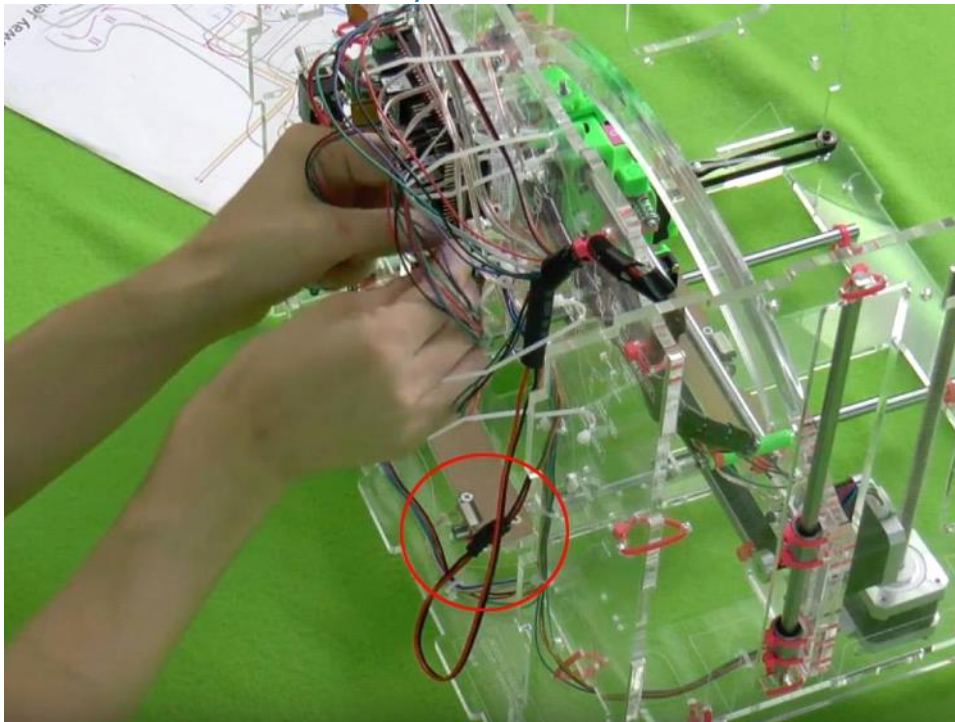
The thermistor wire connects to T0 with the label facing up.

### Title: Connect the X Motor



The X motor connects next to the Y and Z Motors.  
The label should be facing up.

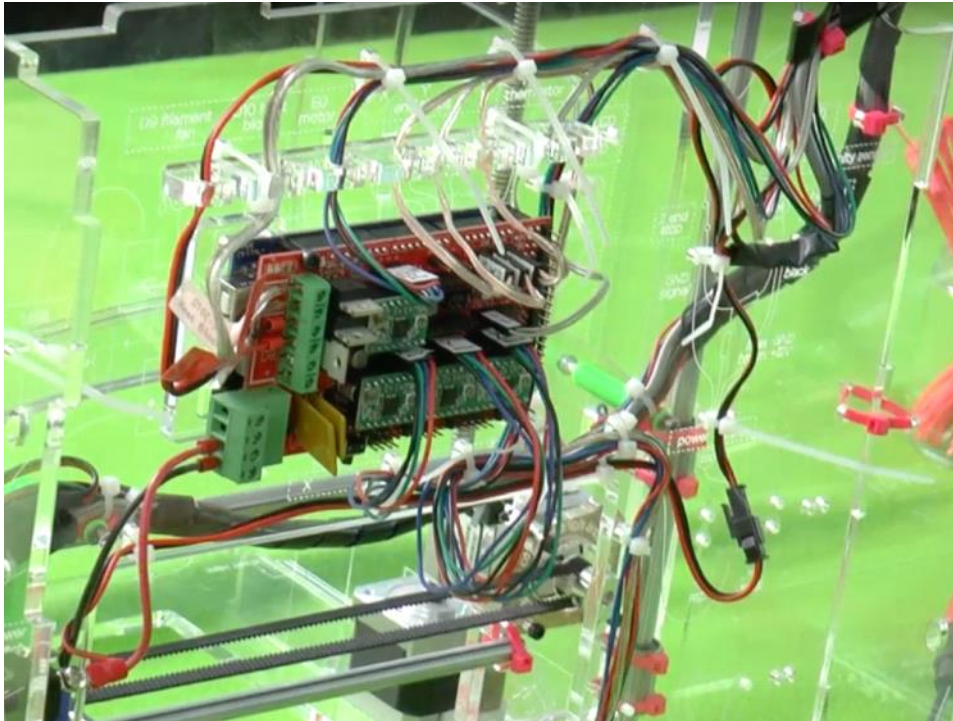
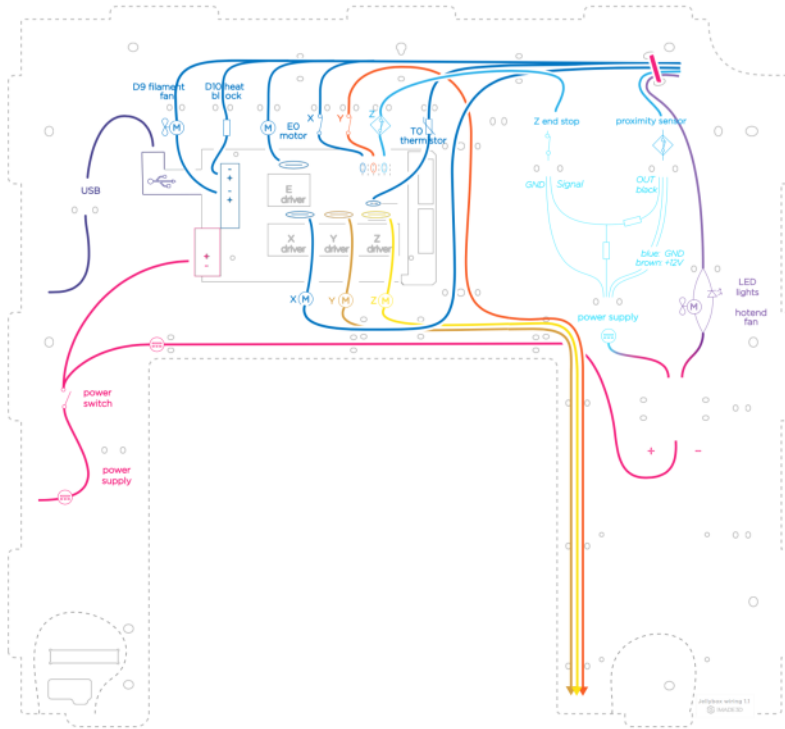
### Title: Connect the Proximity Sensor and Hot End Fan Wire



Connect the wire for the proximity sensor and hot end fan.

### Title: Tidy it All Up!

# "Subway JellyBox" = Everything



Use the 4" zip ties in the back to tidy up the wires.

The zip ties can be left loose so you can re-adjust the wires to your liking. You are only fighting gravity and messiness here.

The spiral wrap can be cut shorter if it's too long.

**Always-leave -slack! No pulling on the wires.**