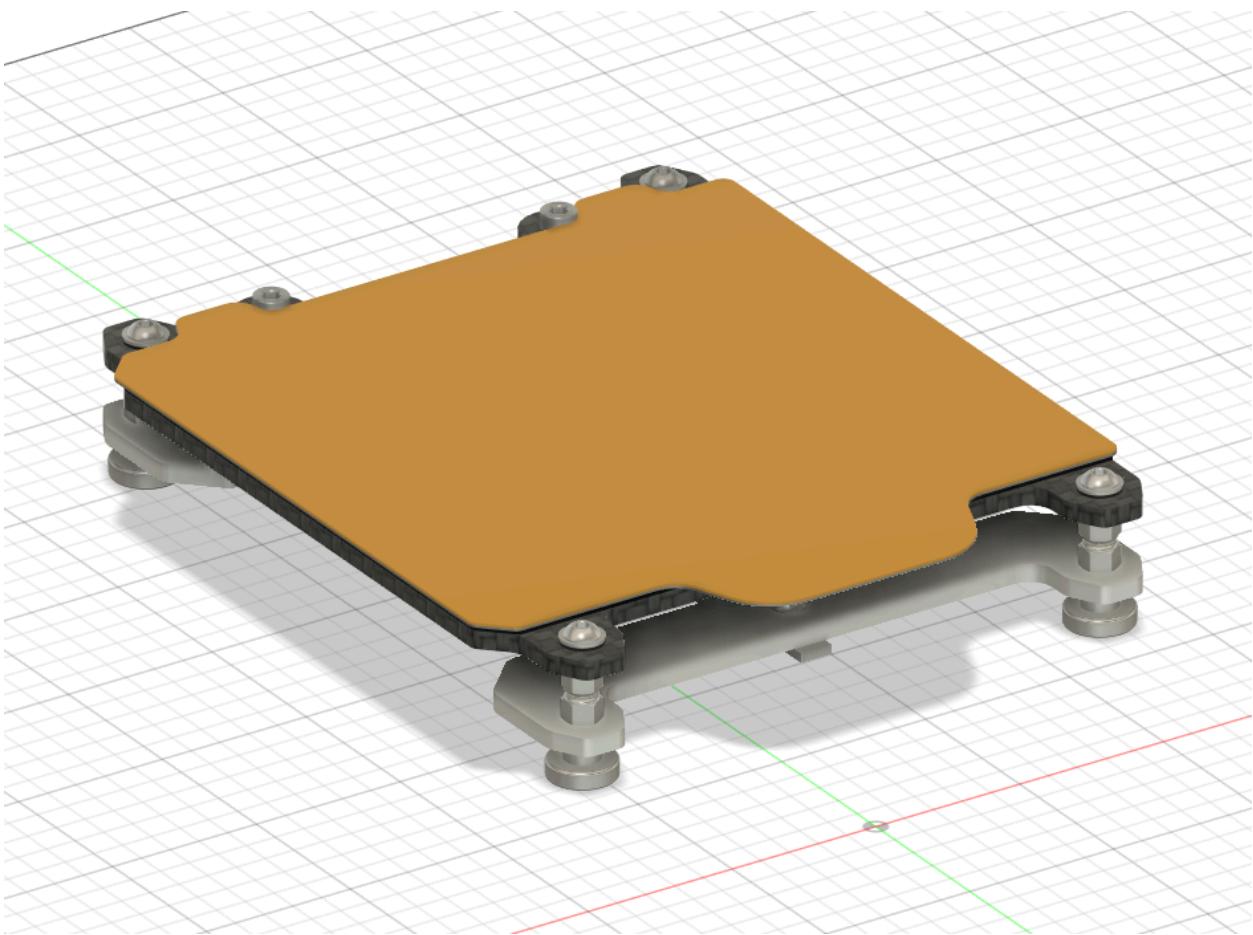
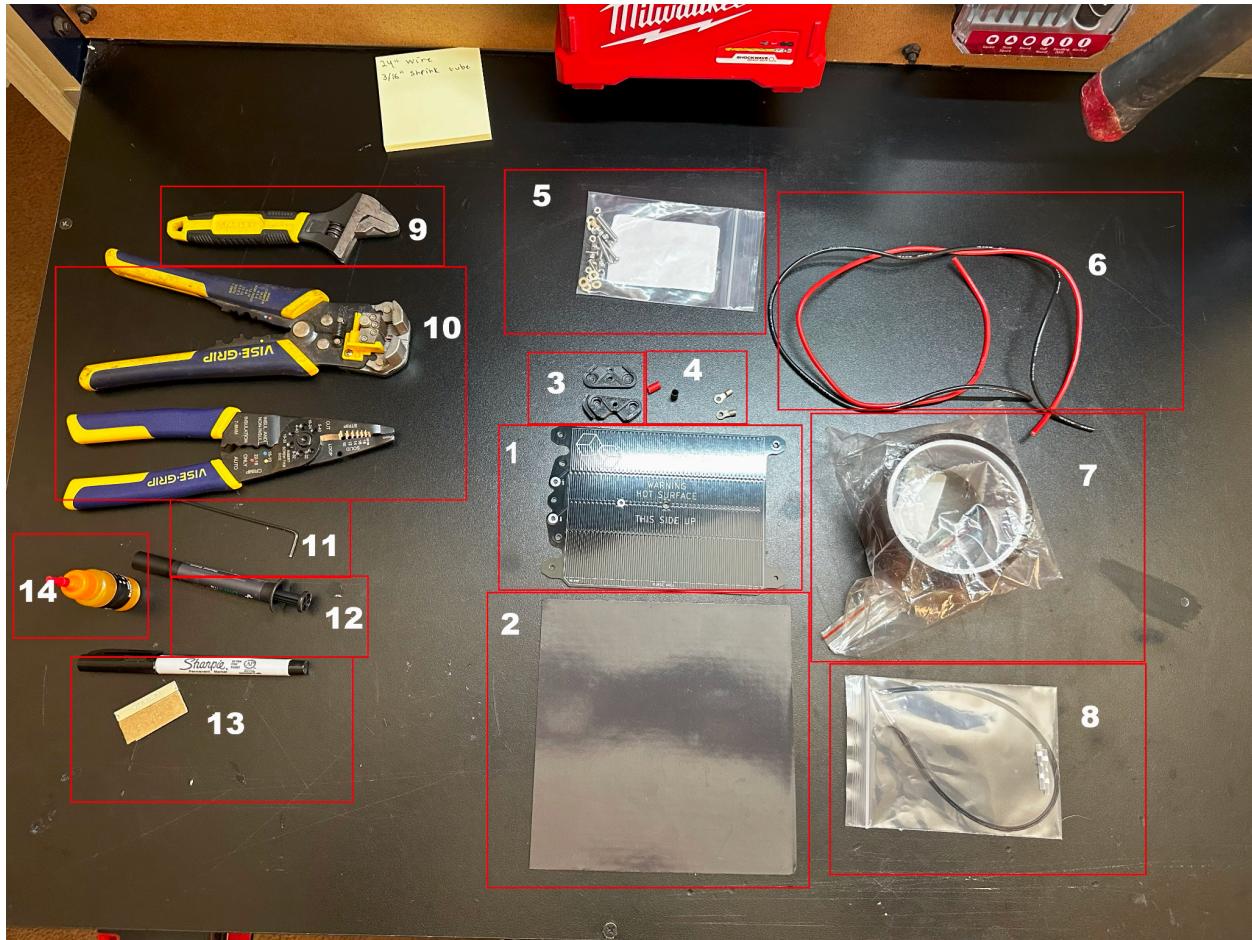


Antithesis Build Plate Assembly



Hardware List



Hardware List

Bill of materials					
1	PCB Heater				
2	Adhesive Magnet				
3	3D Printed Bed Cable Cover				
4	16 AWG Ring Terminal + Heat Shrink	Part Number 8429T14			
5	BoltsN NUTS TO DO	UPDATE			
6	16 AWG Silicone Wire	For Heated Bed Cable			
7	Kapton Tape	Mounting Thermistor			
8	3950 Glass Bead Thermistor	Good Luck with the Creality brand.			
9	Crescent Wrench				
10	Wire Strippers & Crimpers				
11	Allen Key Set				
12	Thermal Paste	Applied to Glass Bead on thermistor			
13	Sharpie & Razor Blade	Used to mark and trim adhesive magnet			
14	Lubricant	Used to prevent galling of threads			

Magnet Install

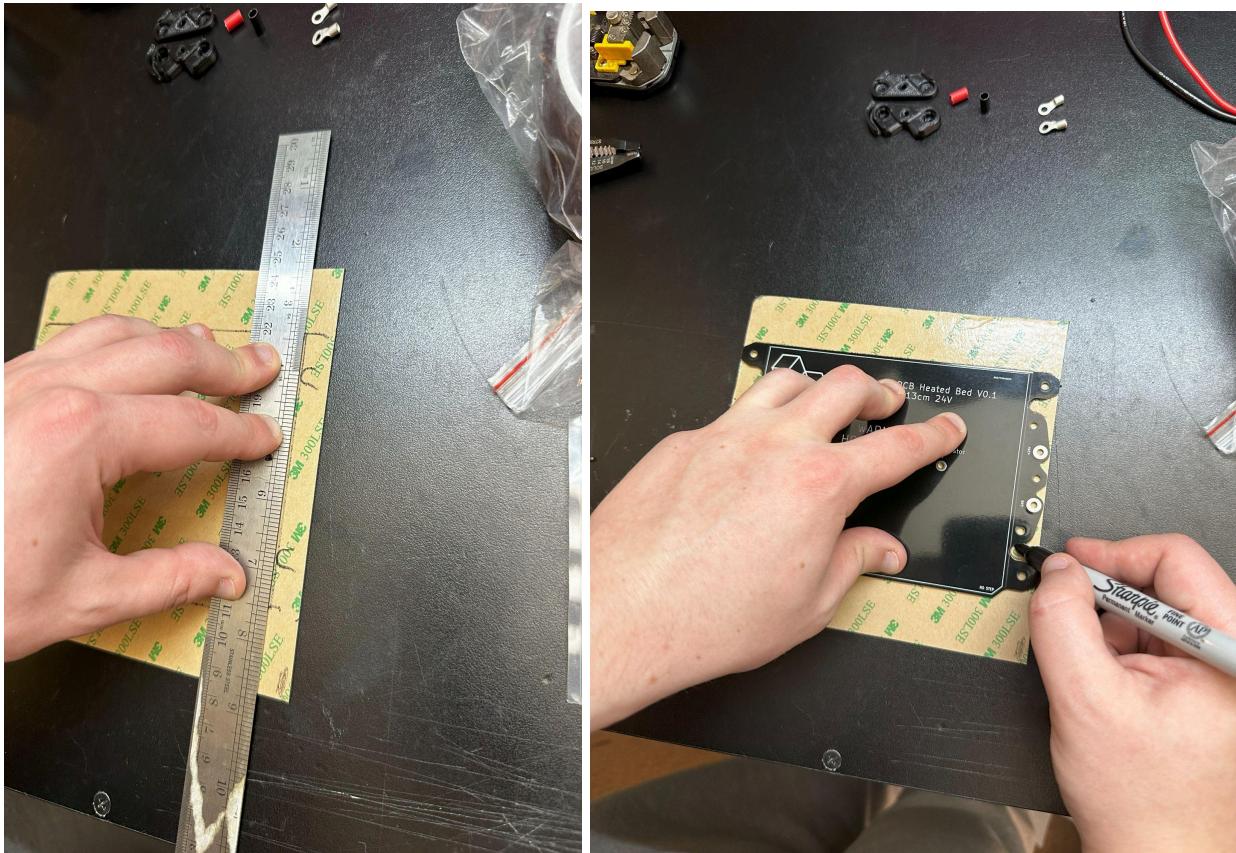
Begin by using the low profile screw to trace and cut out a hole in the middle of magnet. Make sure the screw fits. We will use this hole in the next steps to locate the magnet to trace it out and align it later when we adhere it.

Magnet Install

Fix the low profile screw to the PCB using a normal M3 nut. We will use it to locate the magnet for tracing and when we adhere it.

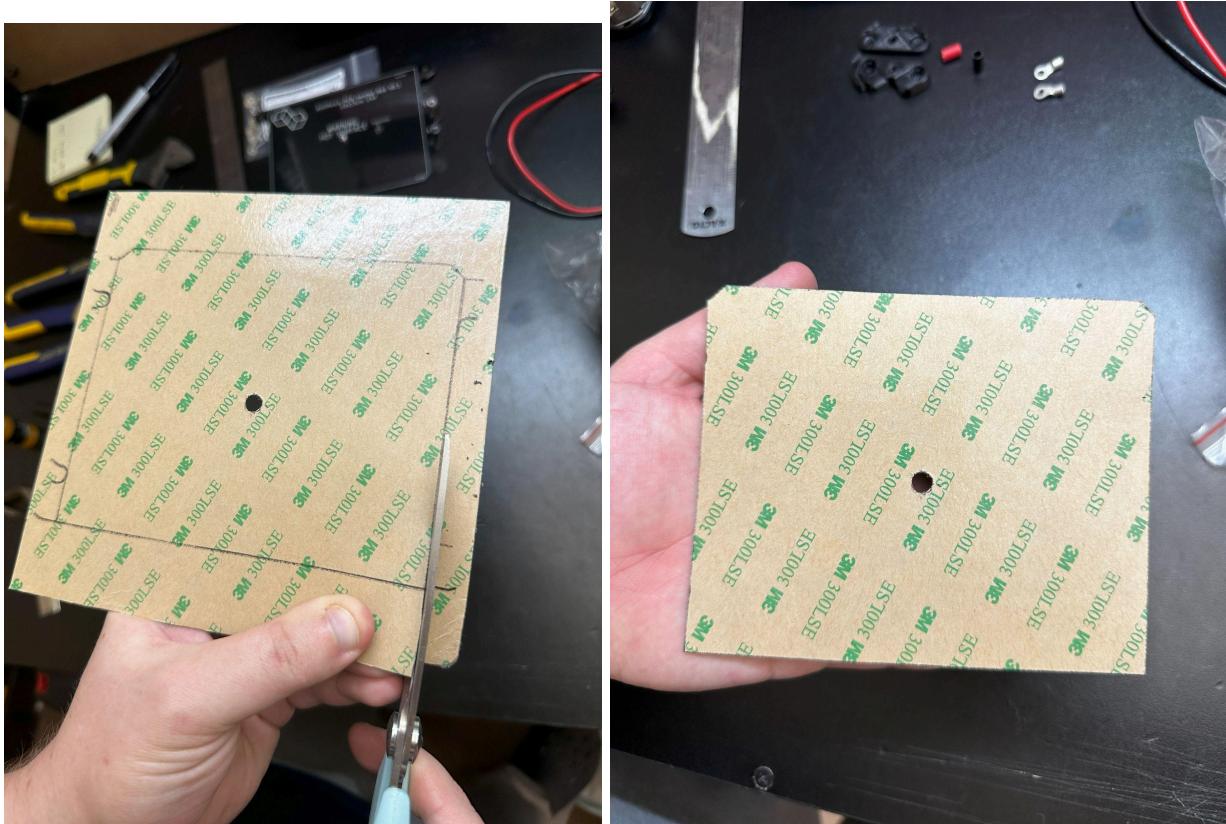
Magnet Install

Begin by placing the PCB heater onto the adhesive magnet.
Make sure to trace out the corners, and the bolt hole in the middle.



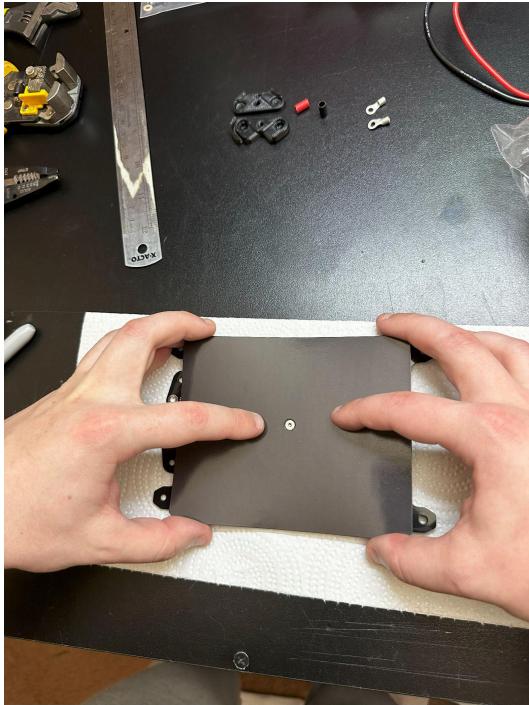
Magnet Install

Cut excess material.



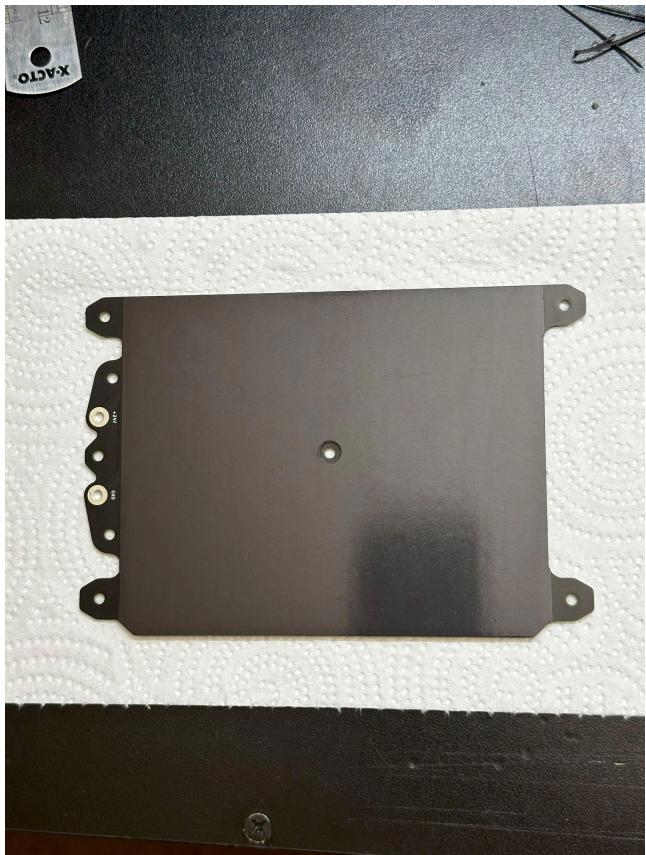
Magnet Install

Clean the build plate and apply the adhesive magnet. Apply even coverage to make sure no air bubbles exist.



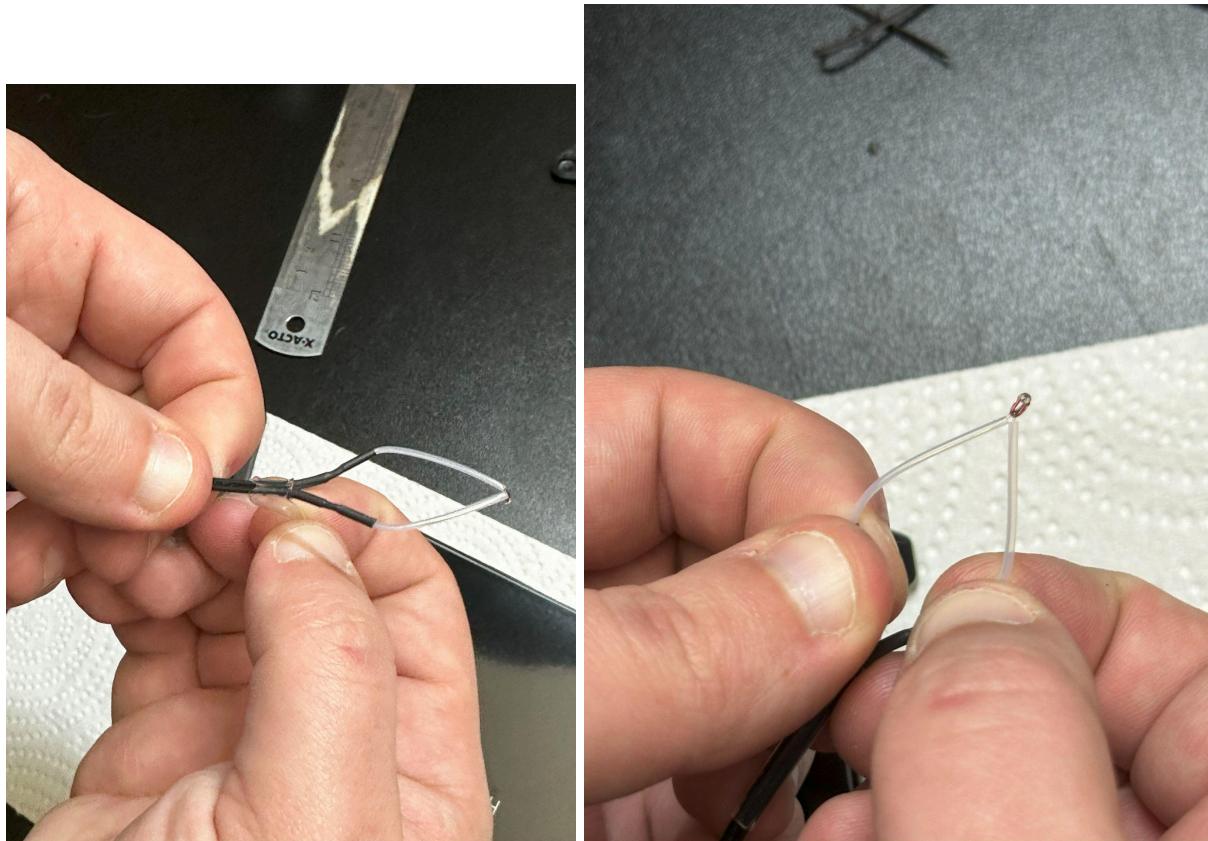
Magnet Install

Trim Corners



Thermistor Install

Carefully trim the heatshrink holding the 2 wires and spread the 2 wires as shown below.



Thermistor Install

Apply a pea-sized blob of thermal paste in the thermistor port.

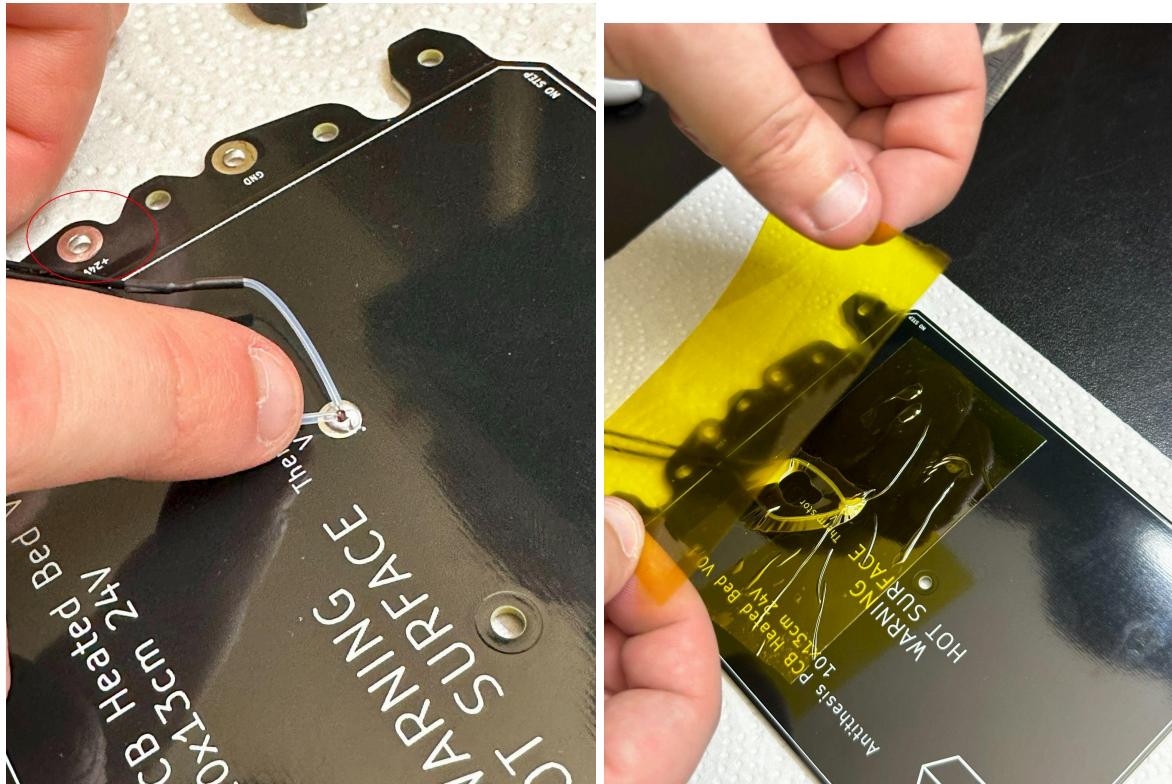


Thermistor Install

Bend Thermistor bead slightly and insert into Thermistor port.

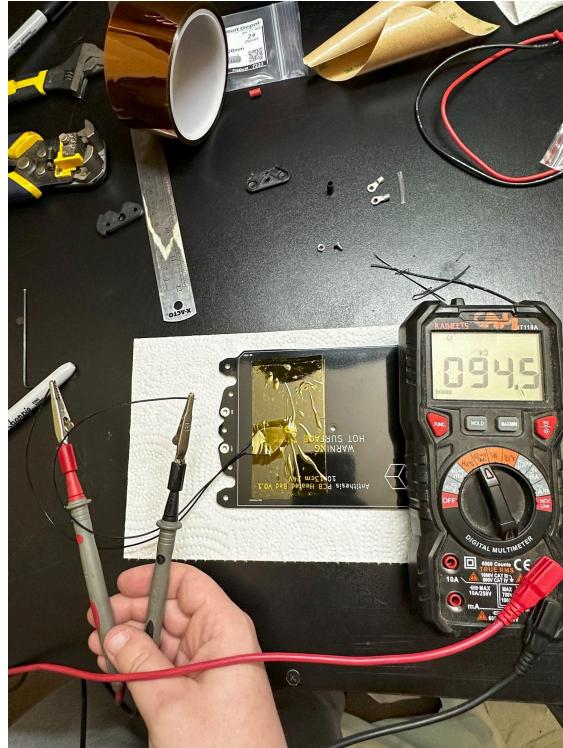
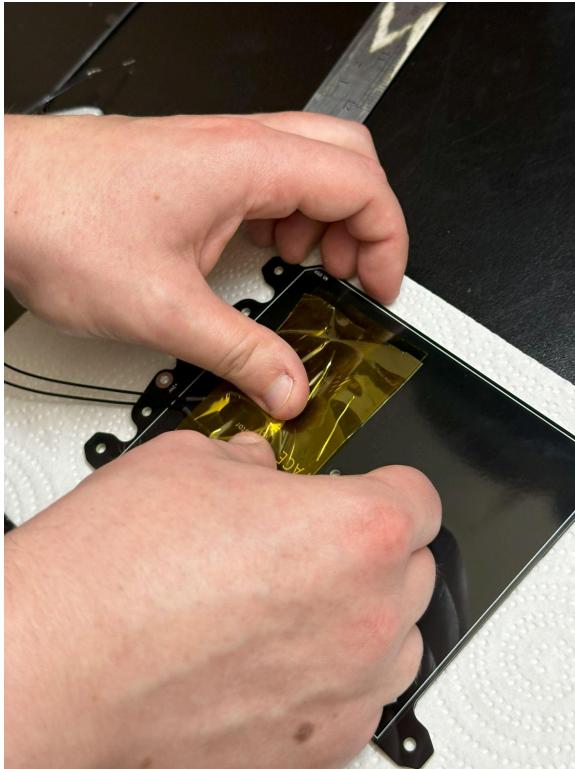
Make sure the cable leads are BELOW the 24V POS connection as circled red.

Apply 2 layers of Kapton tape.



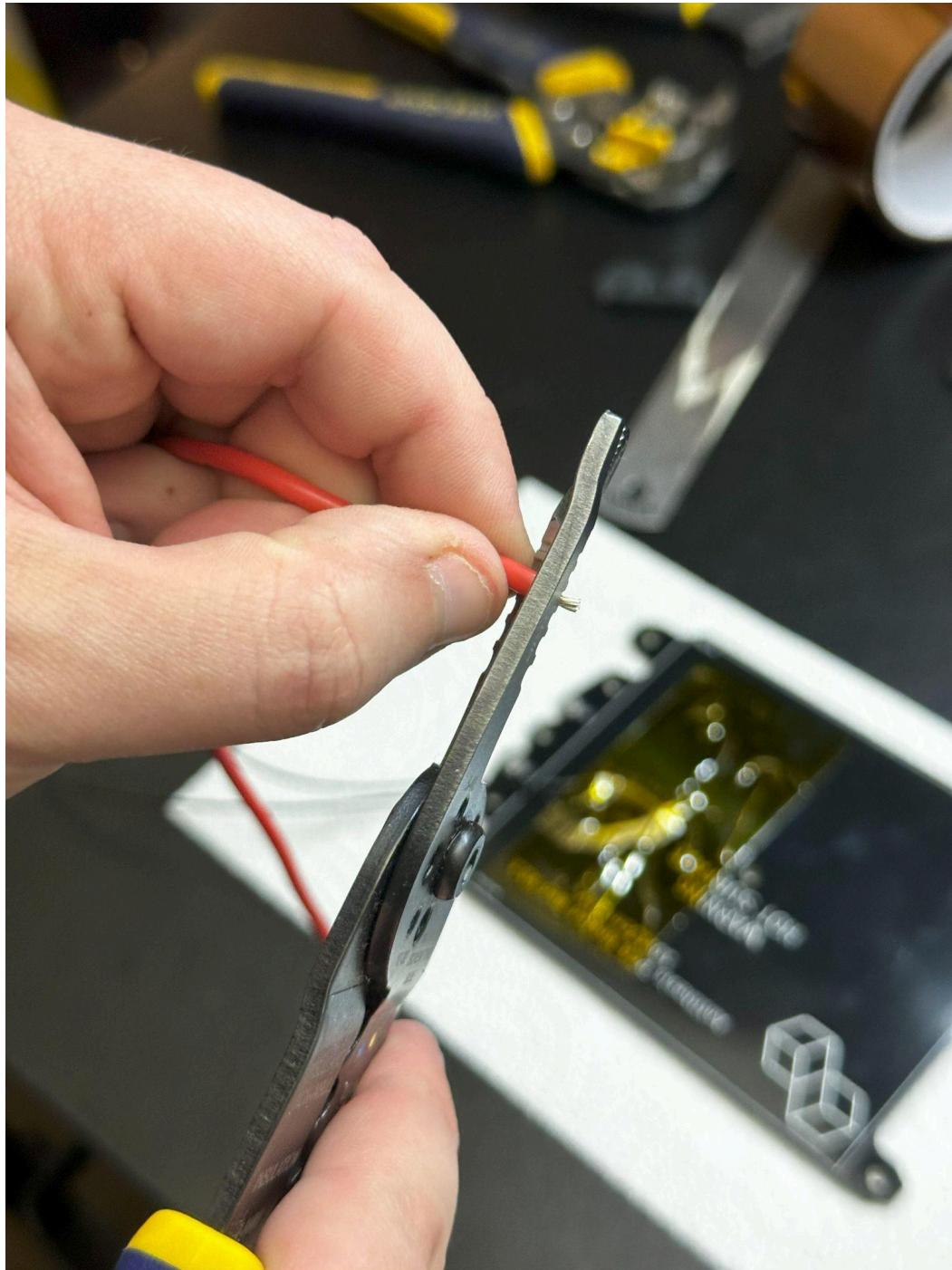
Thermistor Install

Smooth Tape, and confirm continuity to make sure the glass bead did not break.



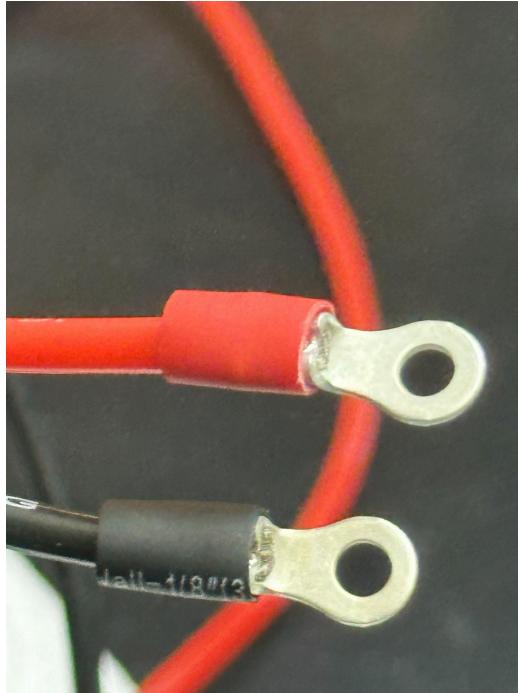
Heater Power Wires

Strip around an $\frac{1}{8}$ " amount of wire.

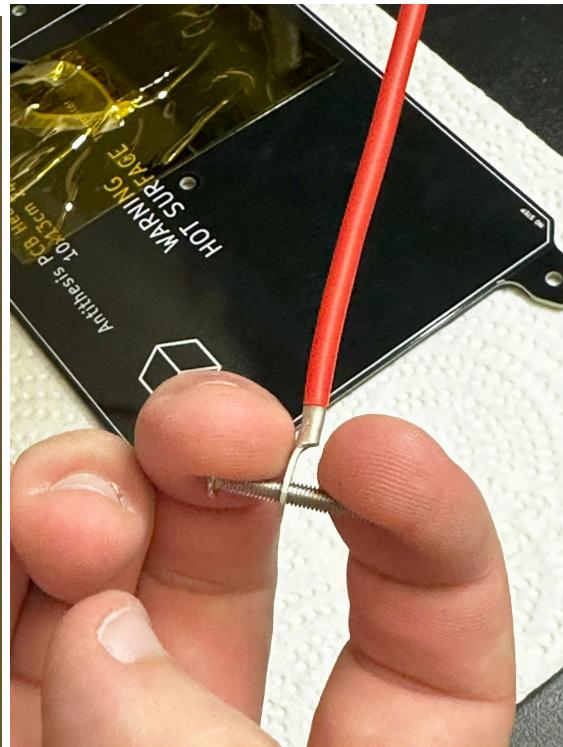


Heater Power Wires

Crimp ring terminal ends onto wire.



Heat the heatshrink and test the strength of the crimp.



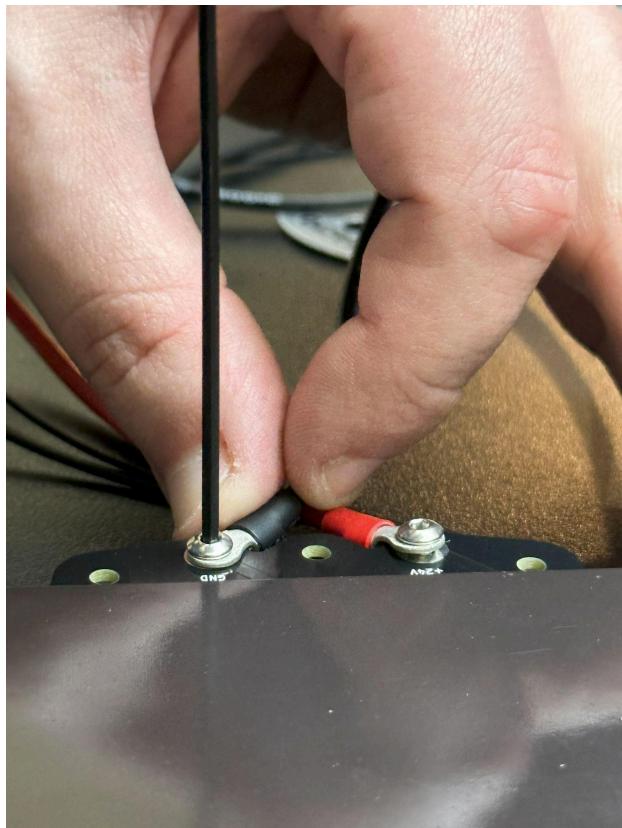
Heater Power Wires

Insert/press hardware into 3d printed cable retainer.



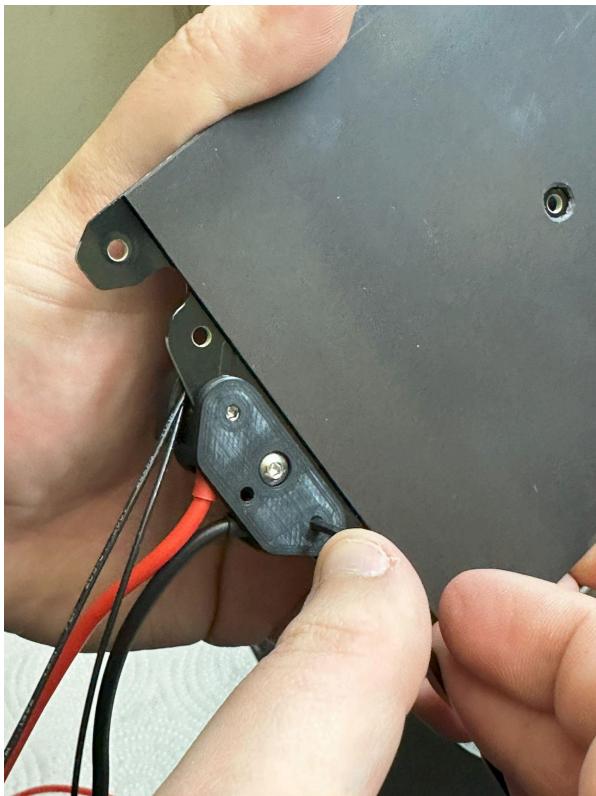
Heater Power Wires

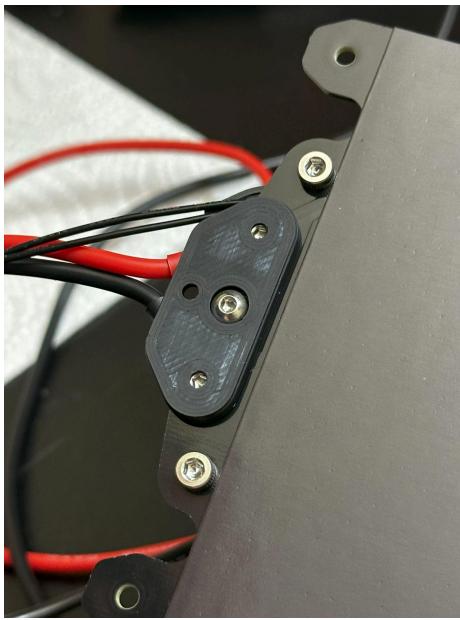
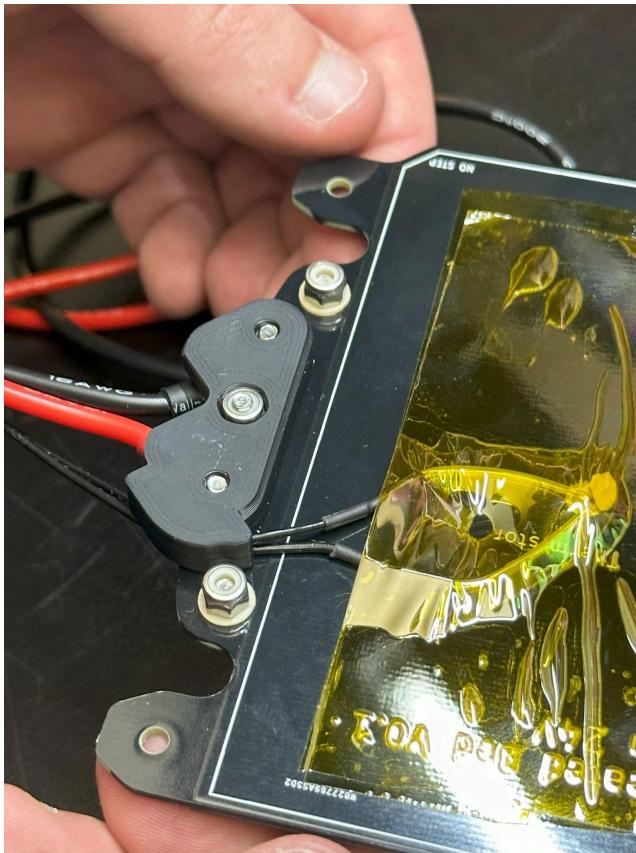
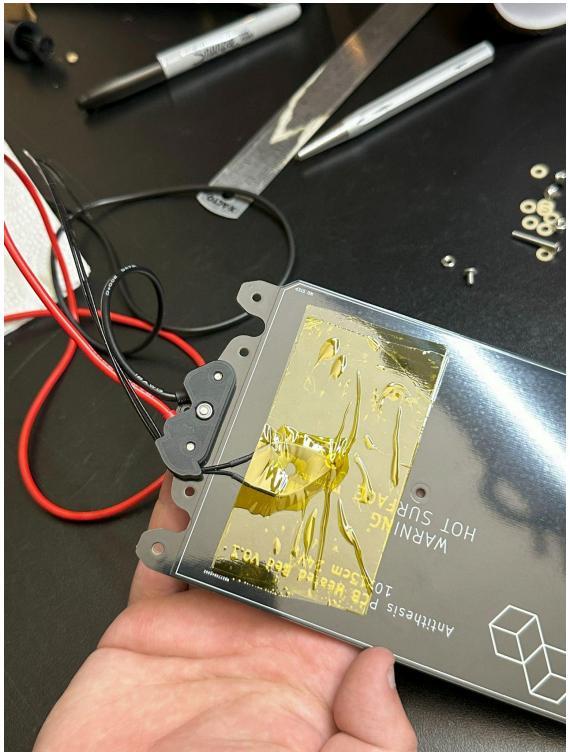
Line up the 3d printed cable holder and loosely screw in the ring terminals.



Heater Power Wires

Attach the other side 3d printed cover and fully tighten everything up.





Standoffs

Begin by inserting the screw with a washer, then lube up the screw and tighten a nut on. This will tap the nylon part of the nut and prevent galling of the threads. Place a second one like in the pictures and have the distance 10.5mm away.



