



Mako™ for Bambu Lab Upgrade Kit Installation Instructions

How to Install the Mako™ for Bambu Lab Upgrade Kit

Compatibility

- Bambu Lab P1P
- Bambu Lab P1S
- Bambu Lab X1
- Bambu Lab X1C
- Bambu Lab X1E

What You Need

- 2 mm Hex Key
- Mako For Bambu Lab
 - Mako Hotend
 - Mako Silicone Boot
 - FIN Nozzle
 - Heater
 - Thermistor
 - Heater Adapter
 - Retaining Clip
 - Air Dam
 - Thermal Grease - 1 cc
 - Optional
 - [Torque Wrench](#) or 6 mm Wrench
 - [Plastic Repellent Paint™](#)

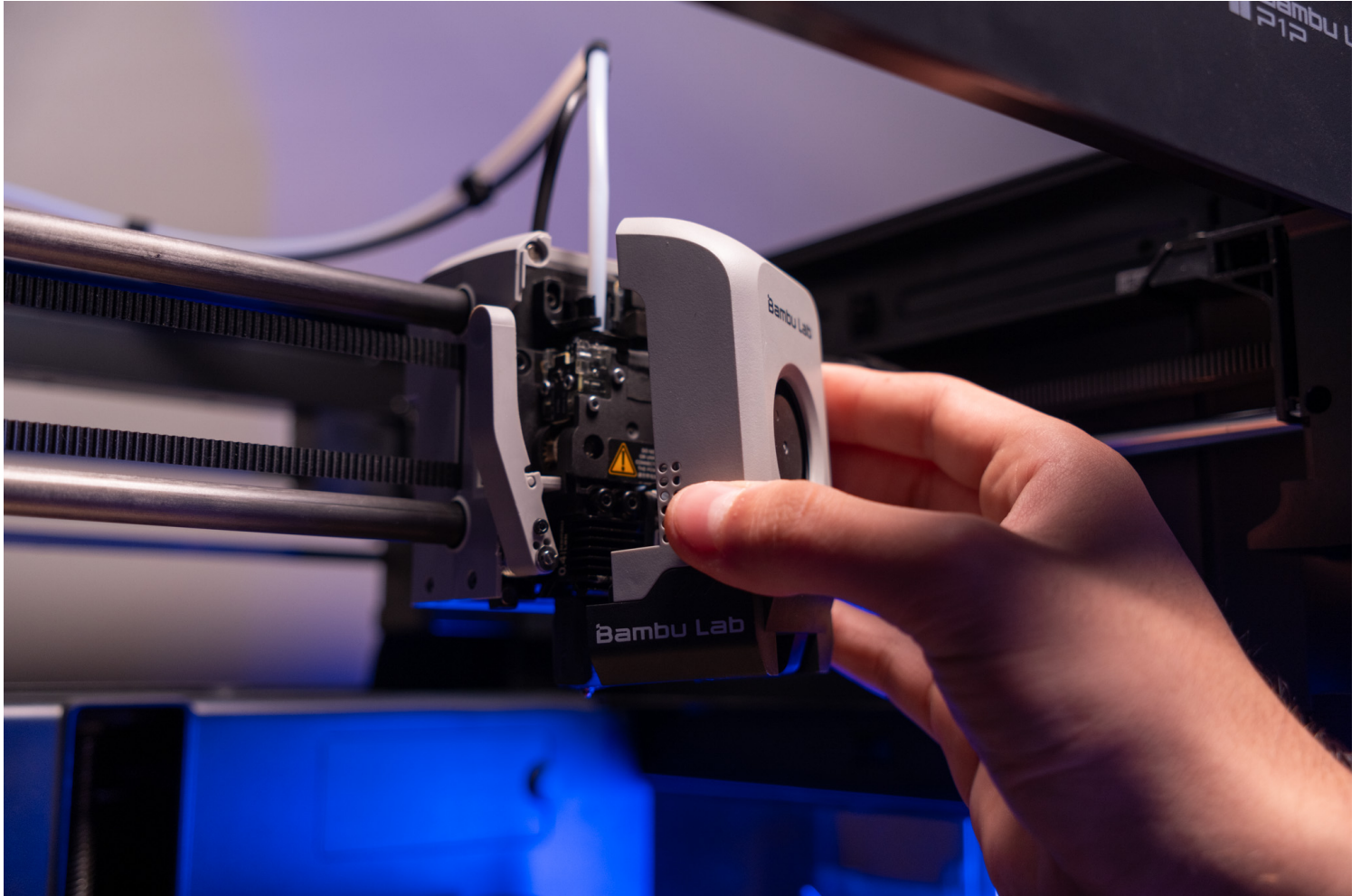
Before Starting

1. Unload any filament.

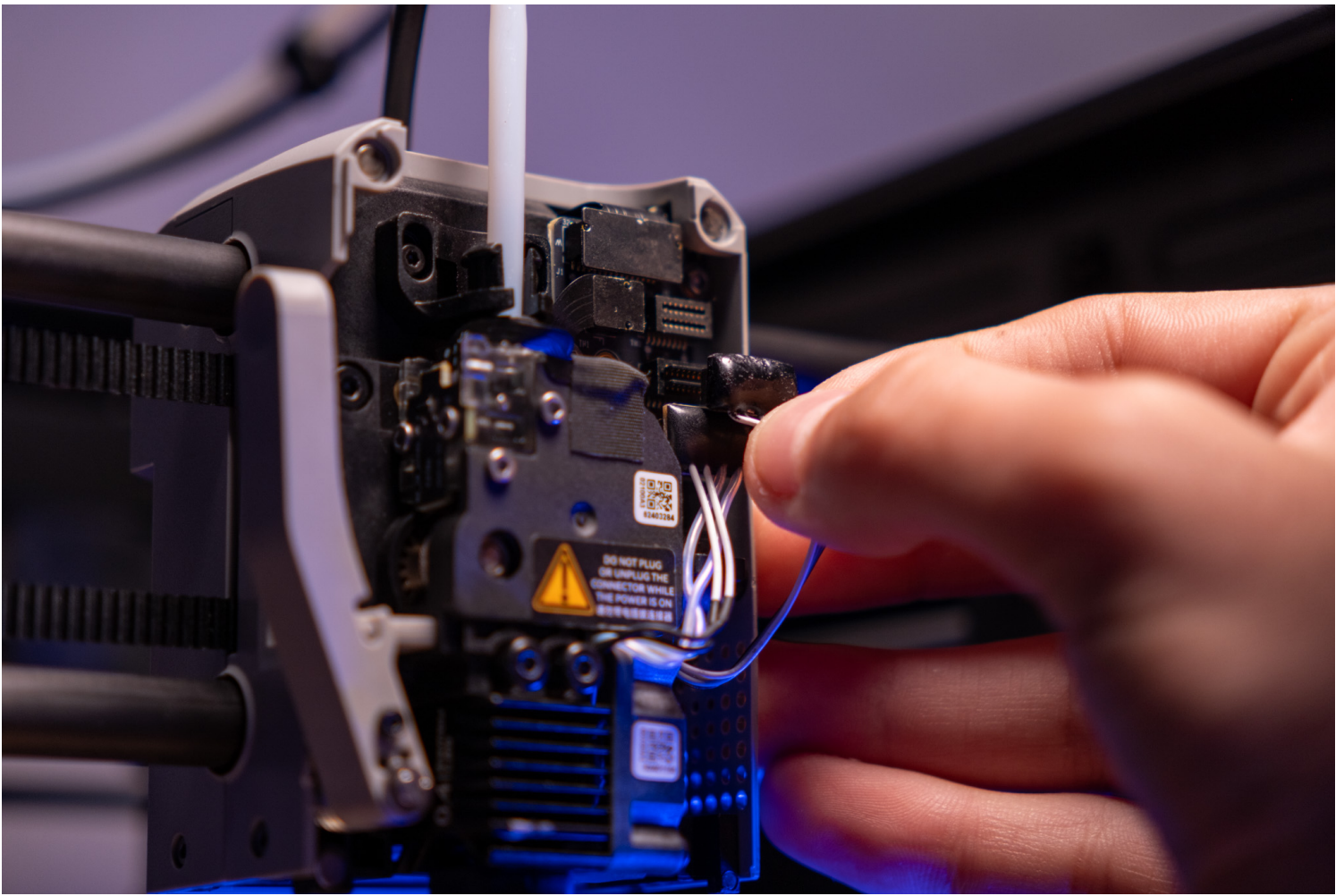
2. Go to the Temperature/Axis settings and make sure your hotend temperature is at 30°C or below, then turn the power OFF
3. Turn off and unplug the printer.

Removal

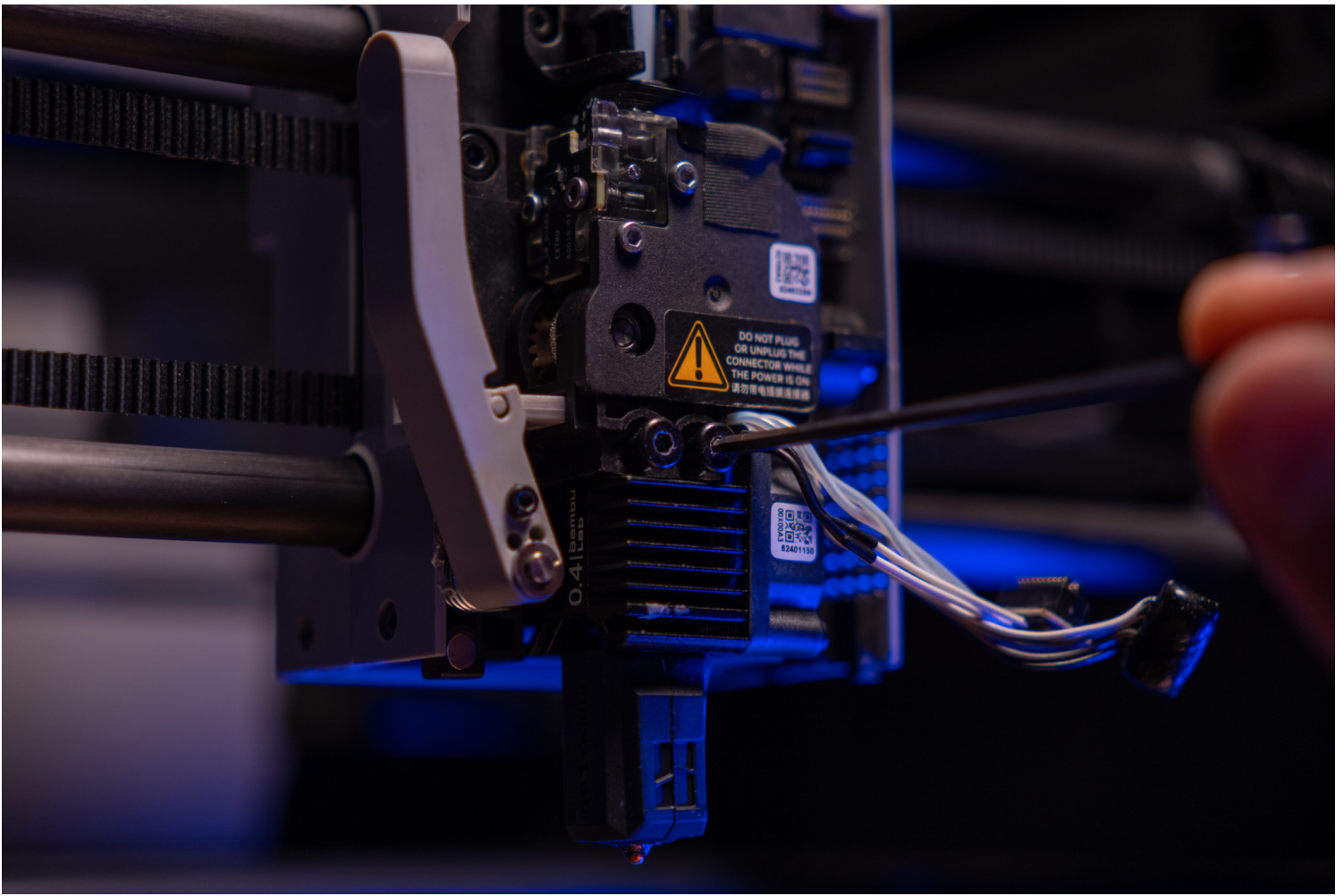
Step 1: Open the magnetic cover and move it aside



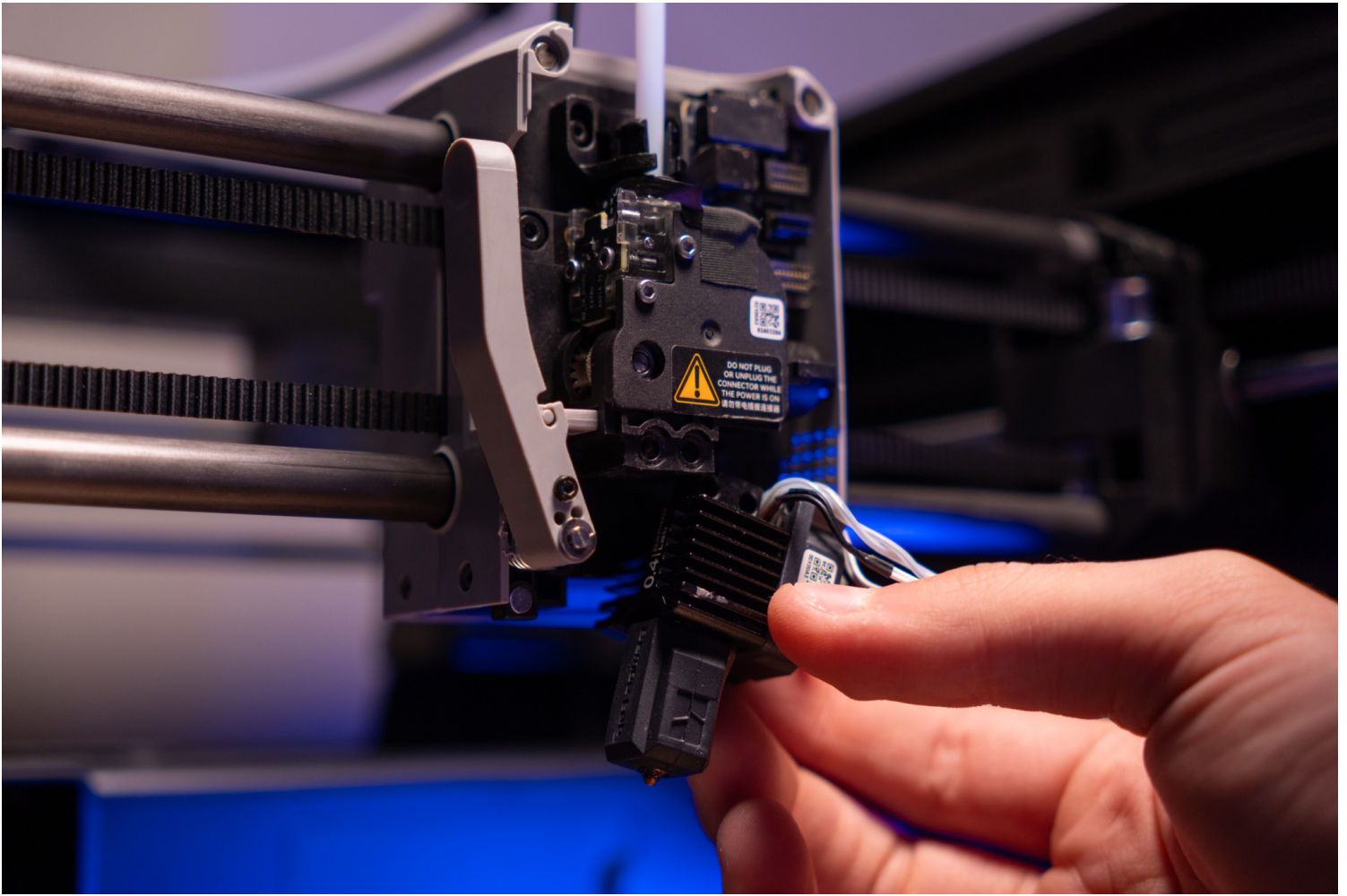
Step 2: Disconnect the hotend fan and the heater connectors from the board, and remove the wires by sliding them out of the clip.



Step 3: Use the 2mm hex key to unscrew the 2 screws that are near the top of the hotend's heatsink



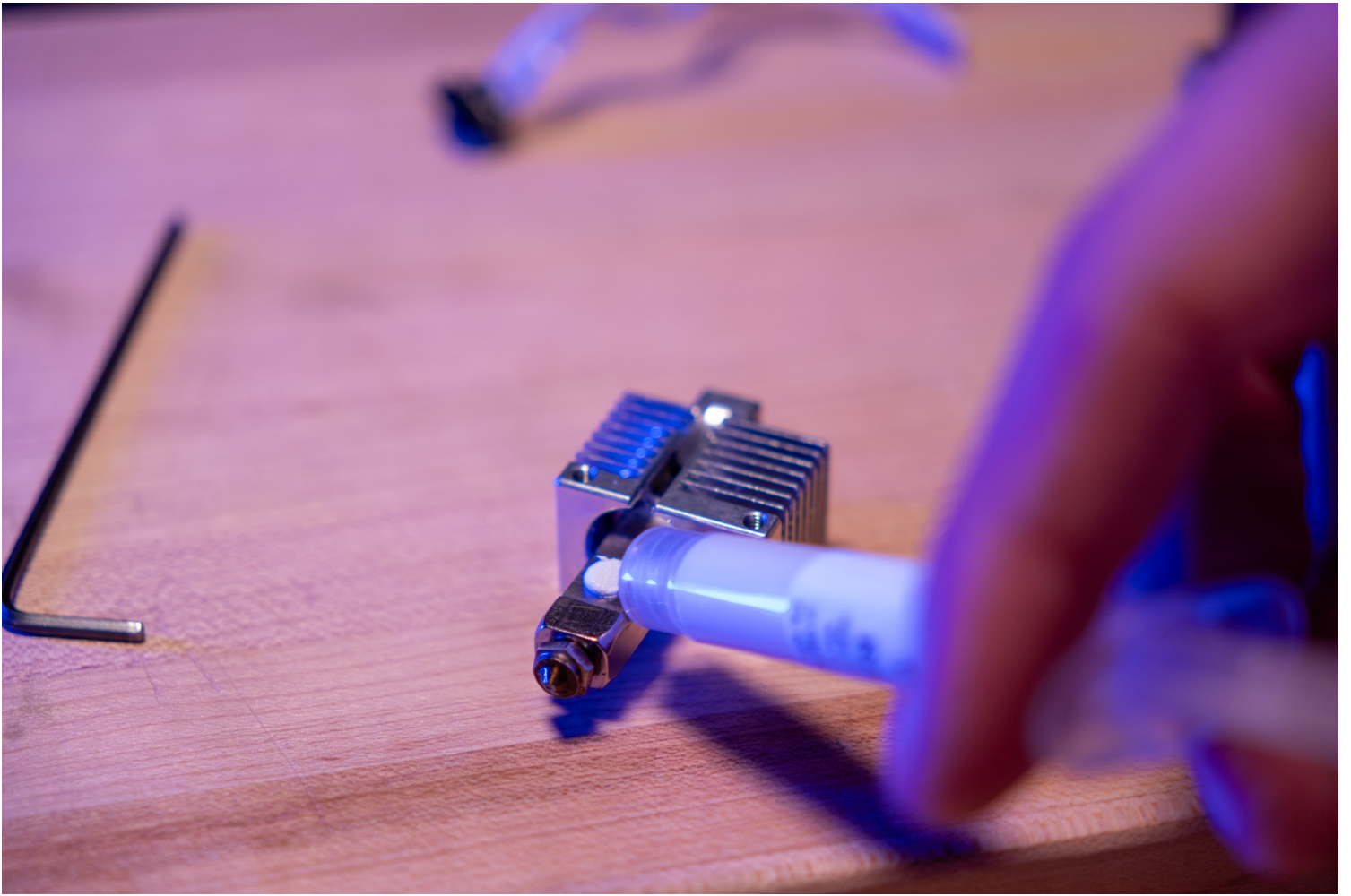
Step 4: Carefully and gently move the wires out of the plastic wire clip and remove the complete hotend assembly.



Prepare hotend

① This is only if you have the Barebones version

Step 1: Apply thermal grease provided onto the hotend where the heater will be placed.



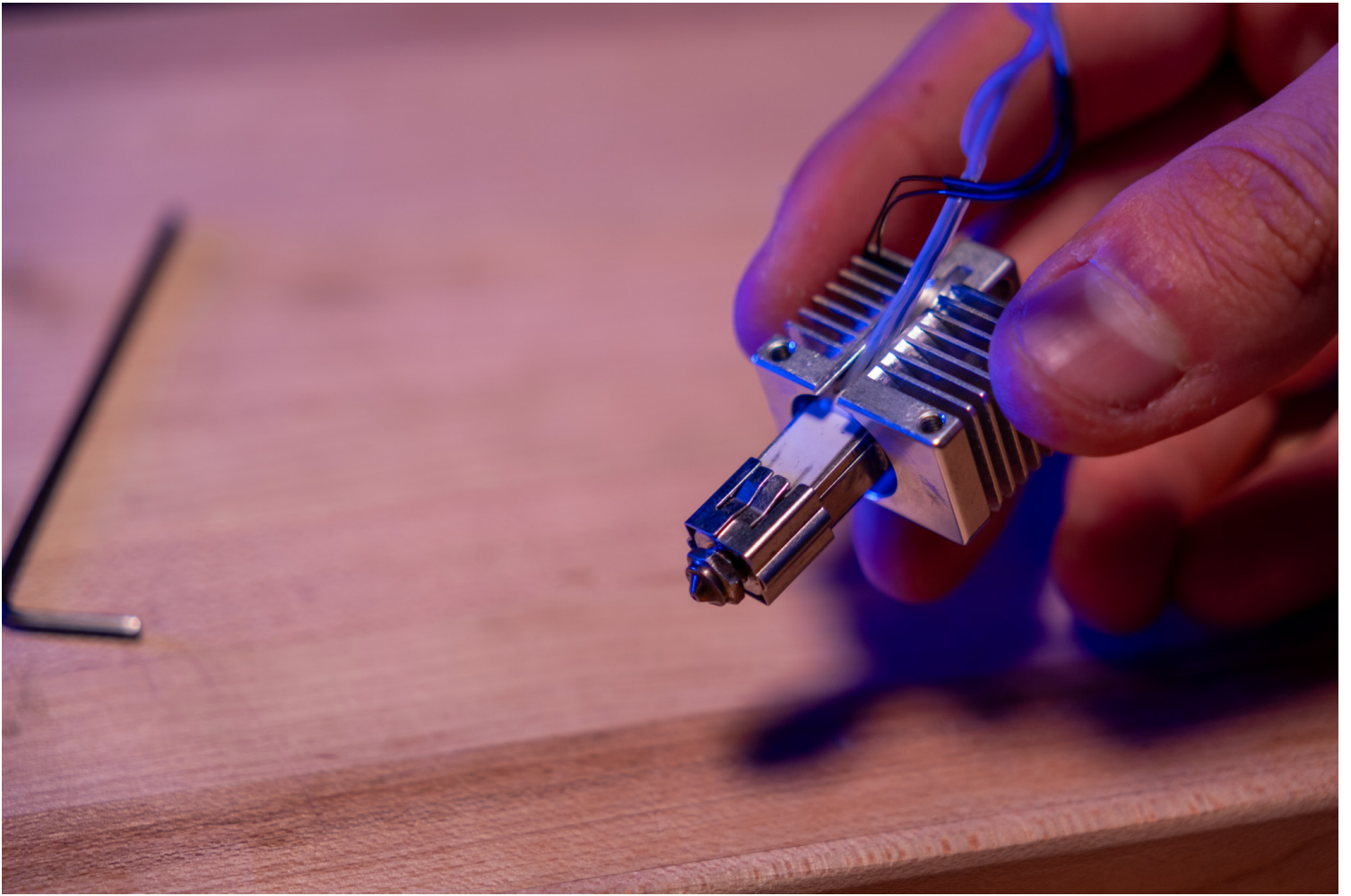
Step 2: Insert the heater adapter by sliding the ears of it into the heatsink of the hotend



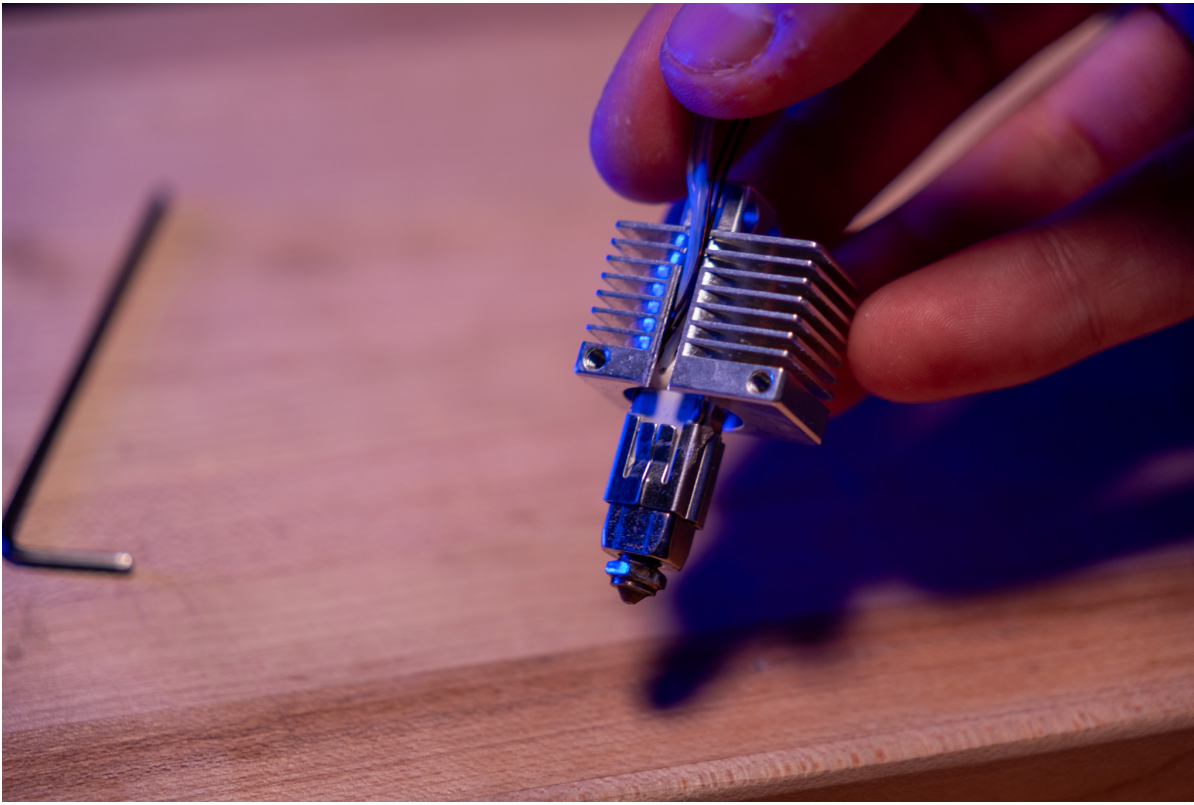
Step 3: Insert your heater into the heater adapter



Step 4: Slide the retaining clip onto the bottom of the heater to hold it in place while you complete the next step.

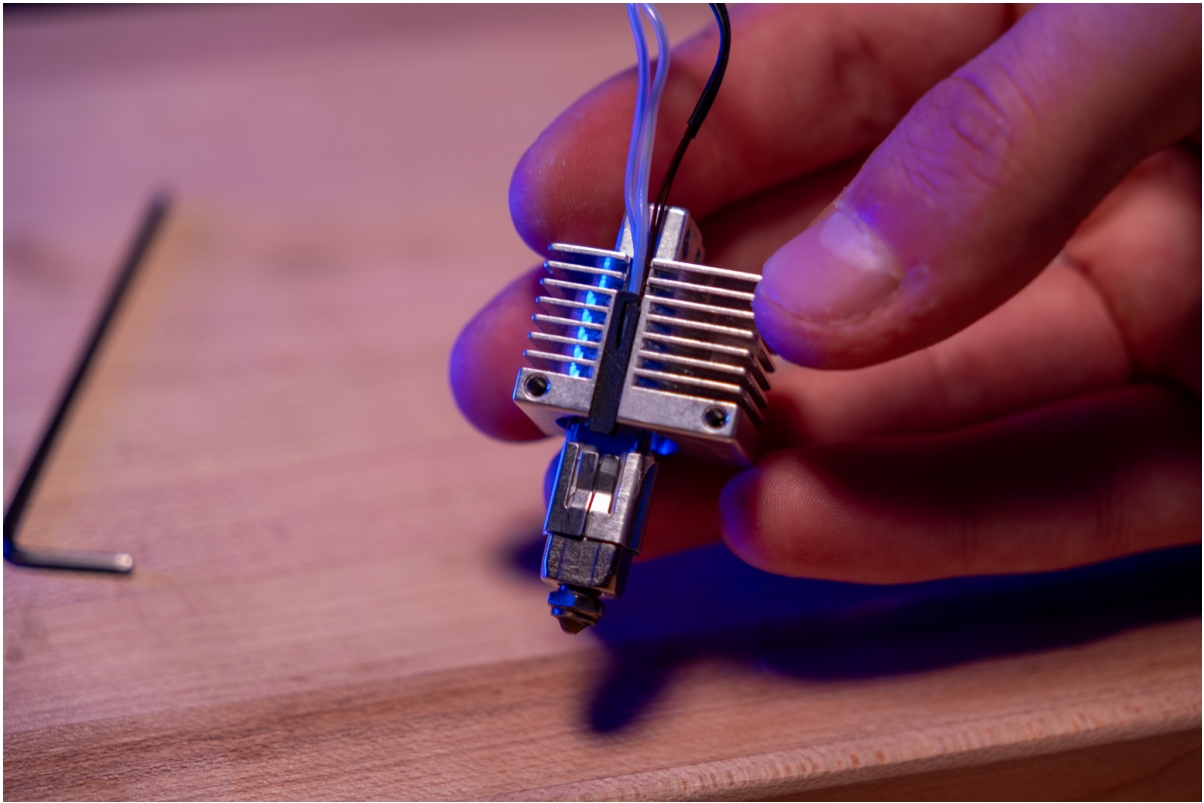


Step 5: Apply grease to the thermistor cable. Then, insert into the hole in the side of the hotend and slide the retaining clip over it.

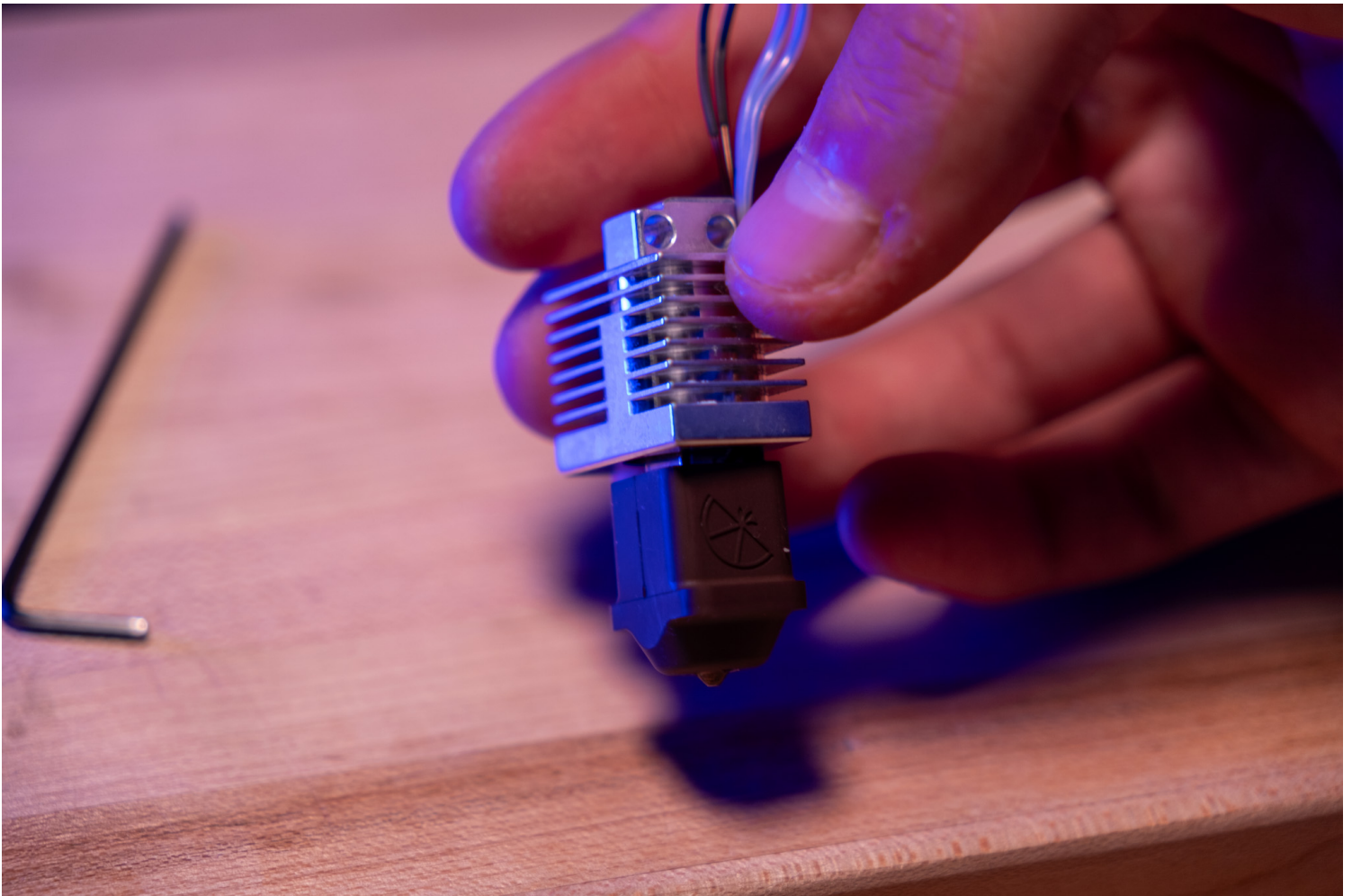


Step 6: Route your wires through the designated slot of the heatsink and be sure to place the thermistor wires behind the heater wires and slide the air dam over the wires.

⚠ Ensure your air-dam is flush with the bottom of the heatsink



Step 7: Slide the Mako boot over your hotblock



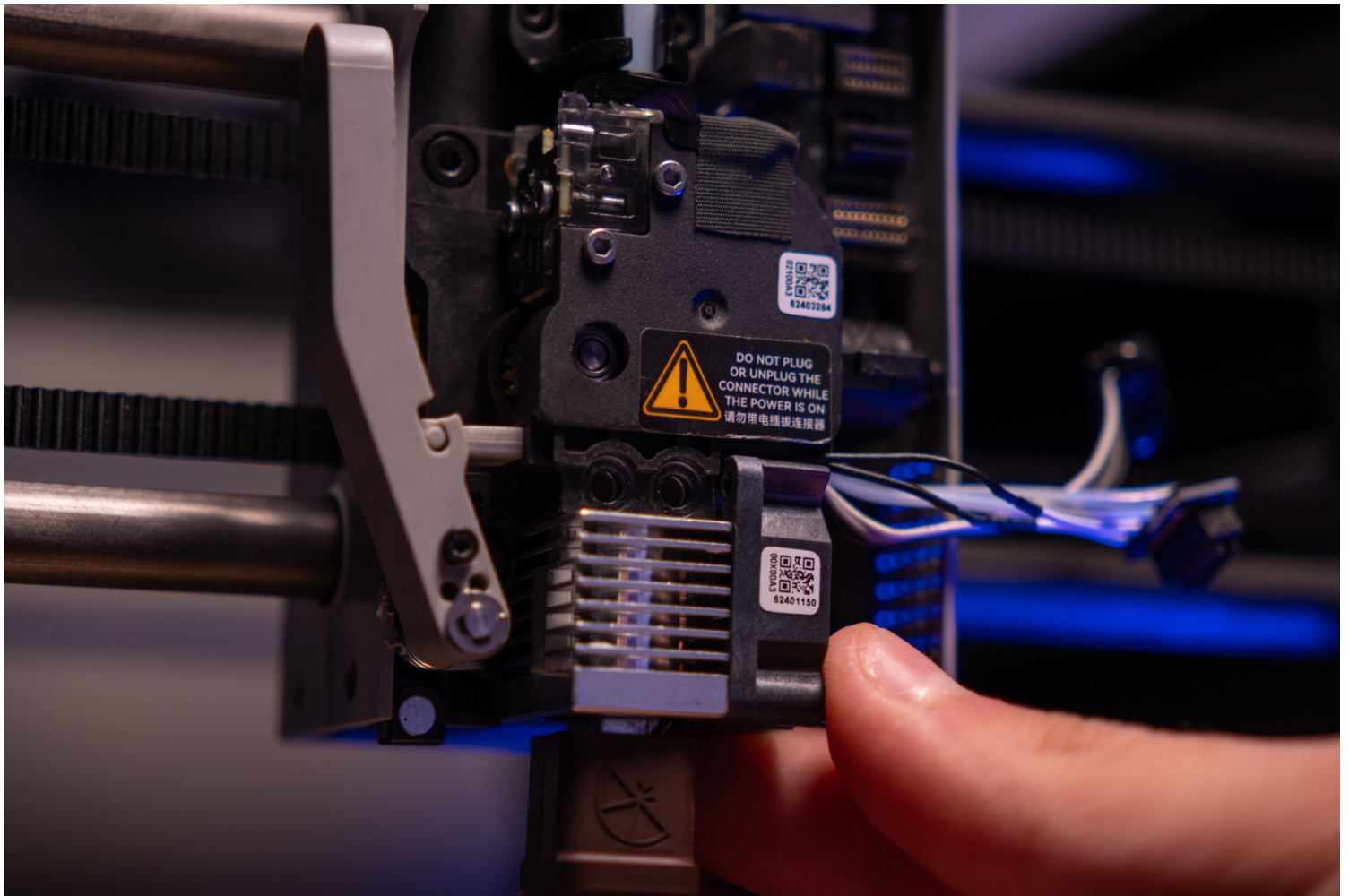
Step 8: Now screw your fan into the heatsink with a 2 mm hex key.



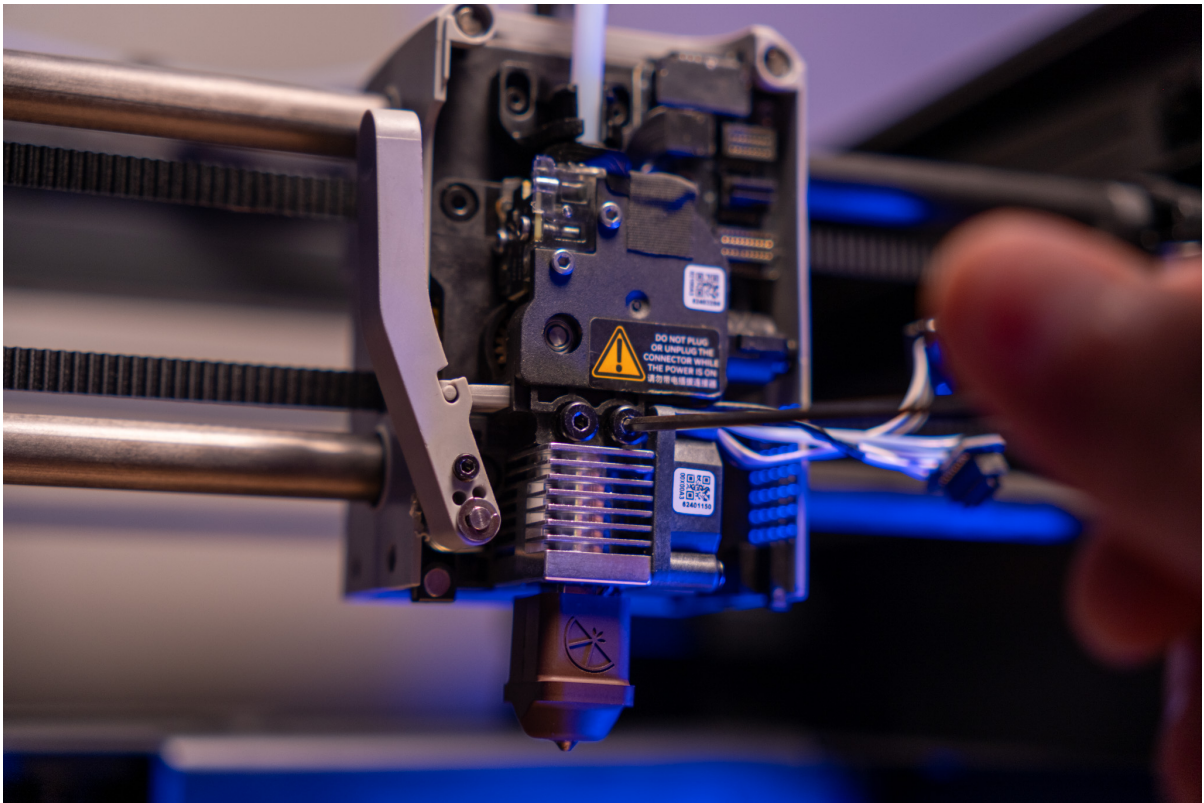
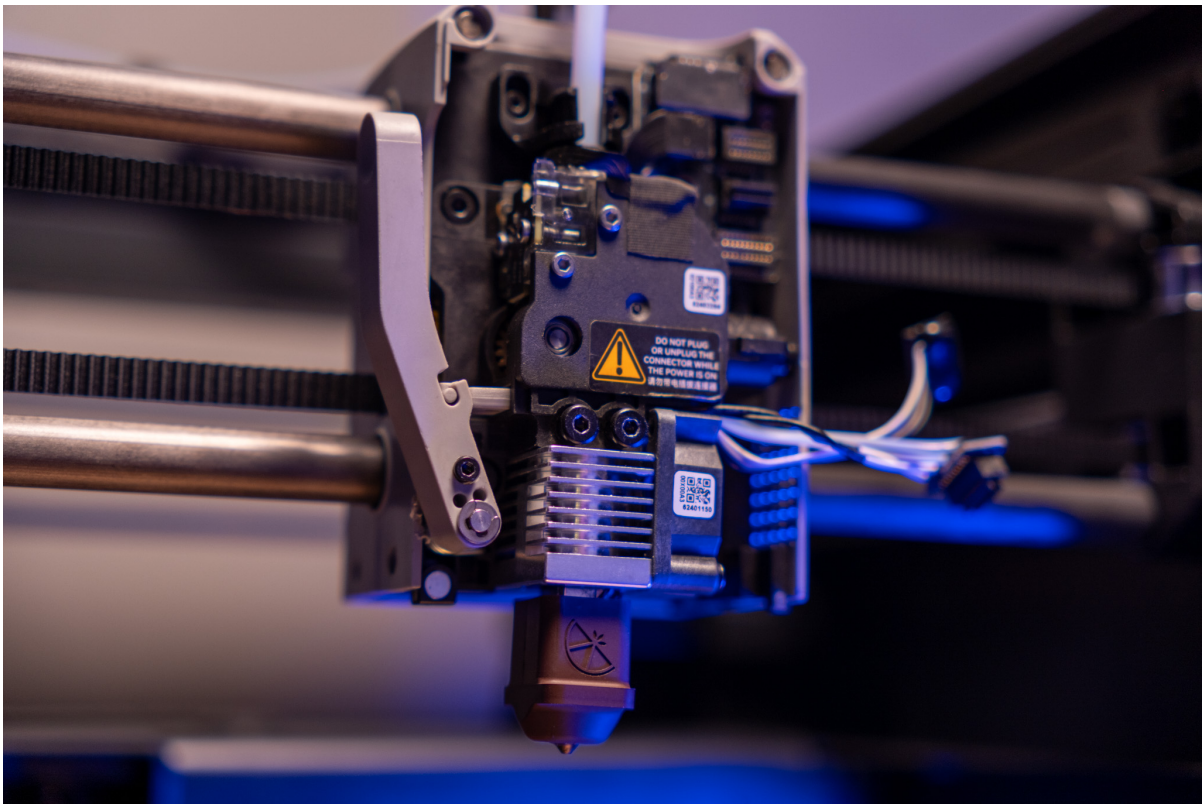
Installation

Now that you have removed the stock hotend, you are ready to install your new Mako hotend.

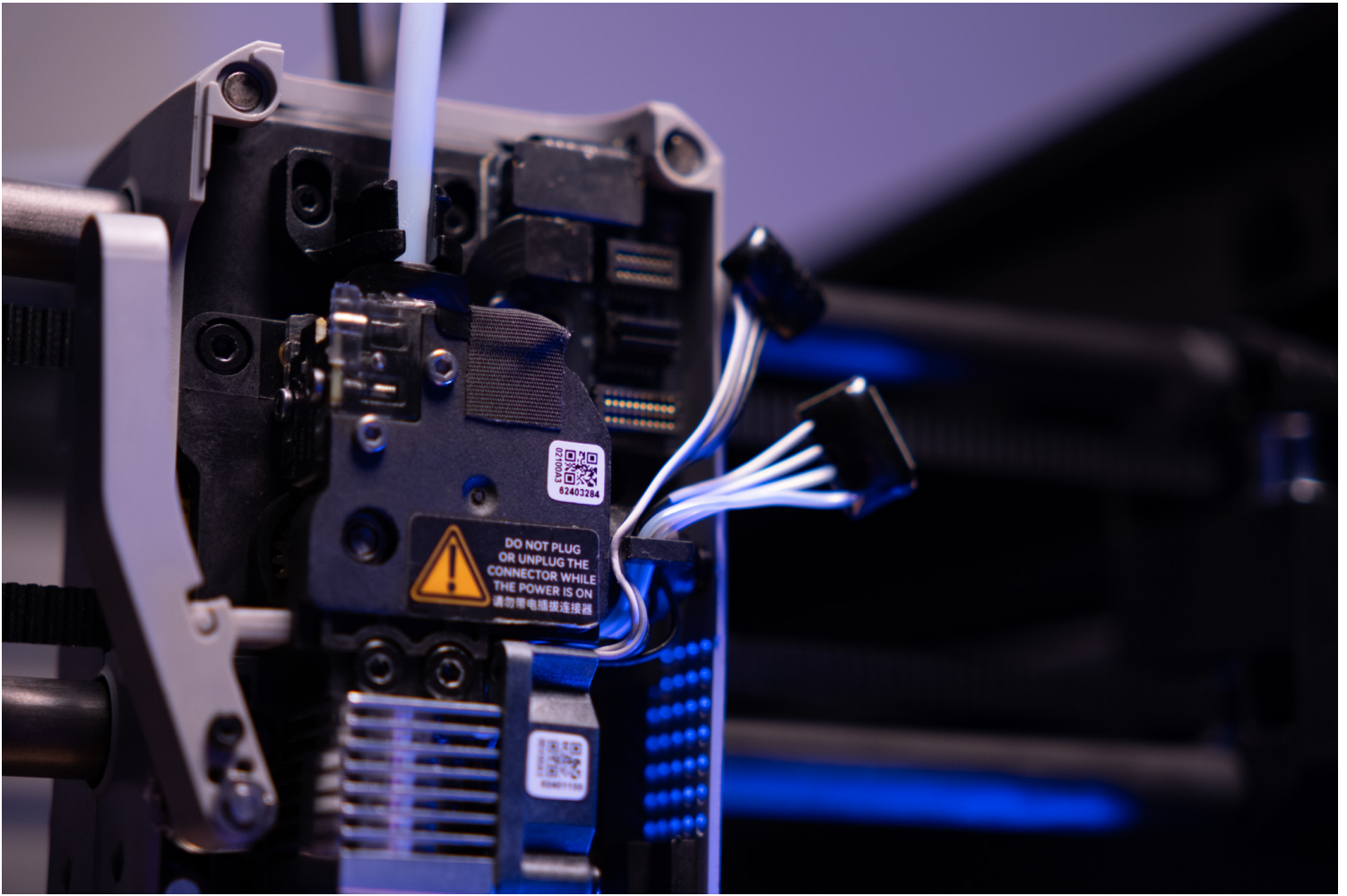
Step 1: Position the complete hotend assembly so that the 2 screw holes will be behind the bracket



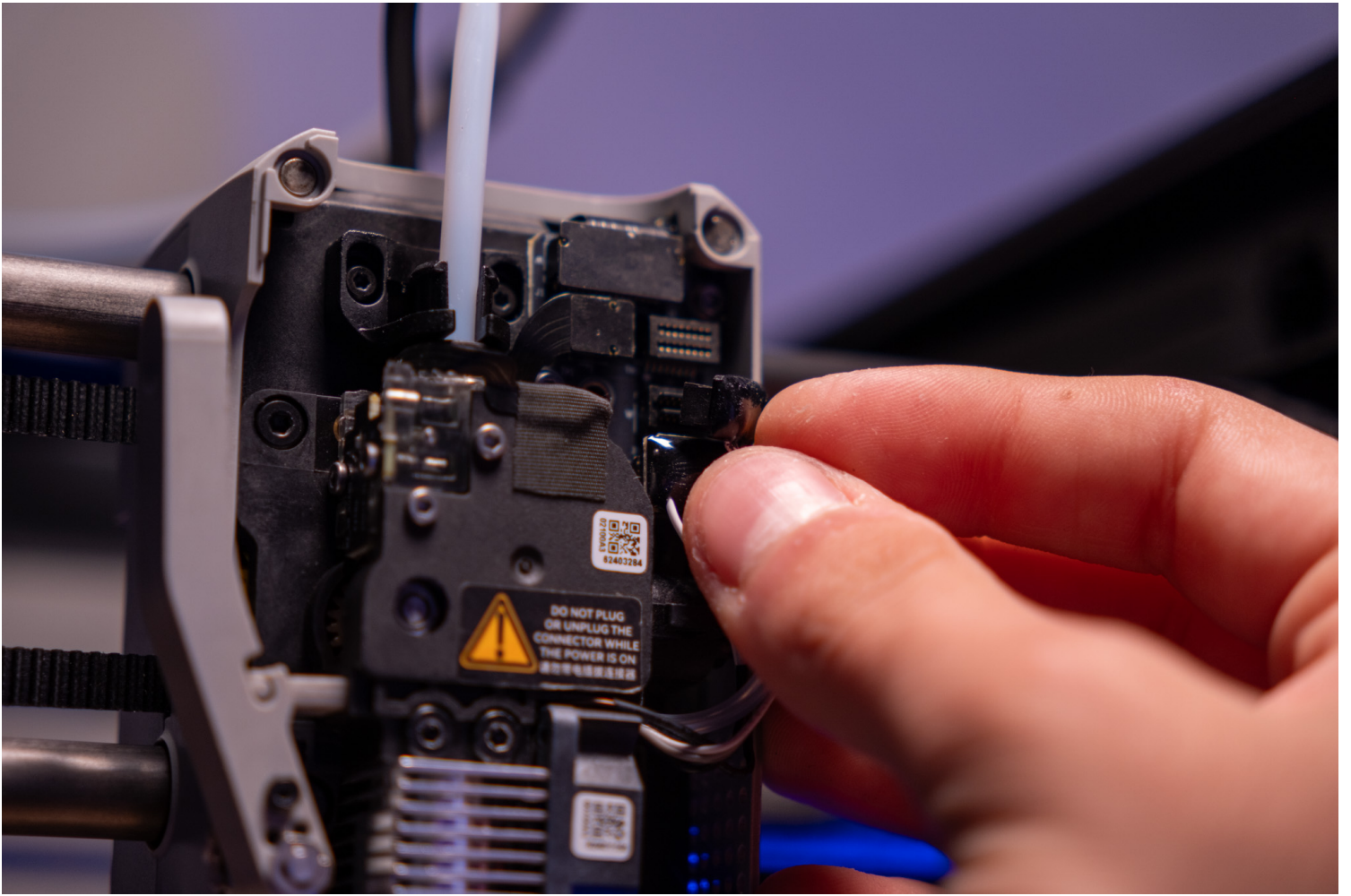
Step 2: Gently push the 2 screws in and then tighten them equally, be careful not to over-tighten



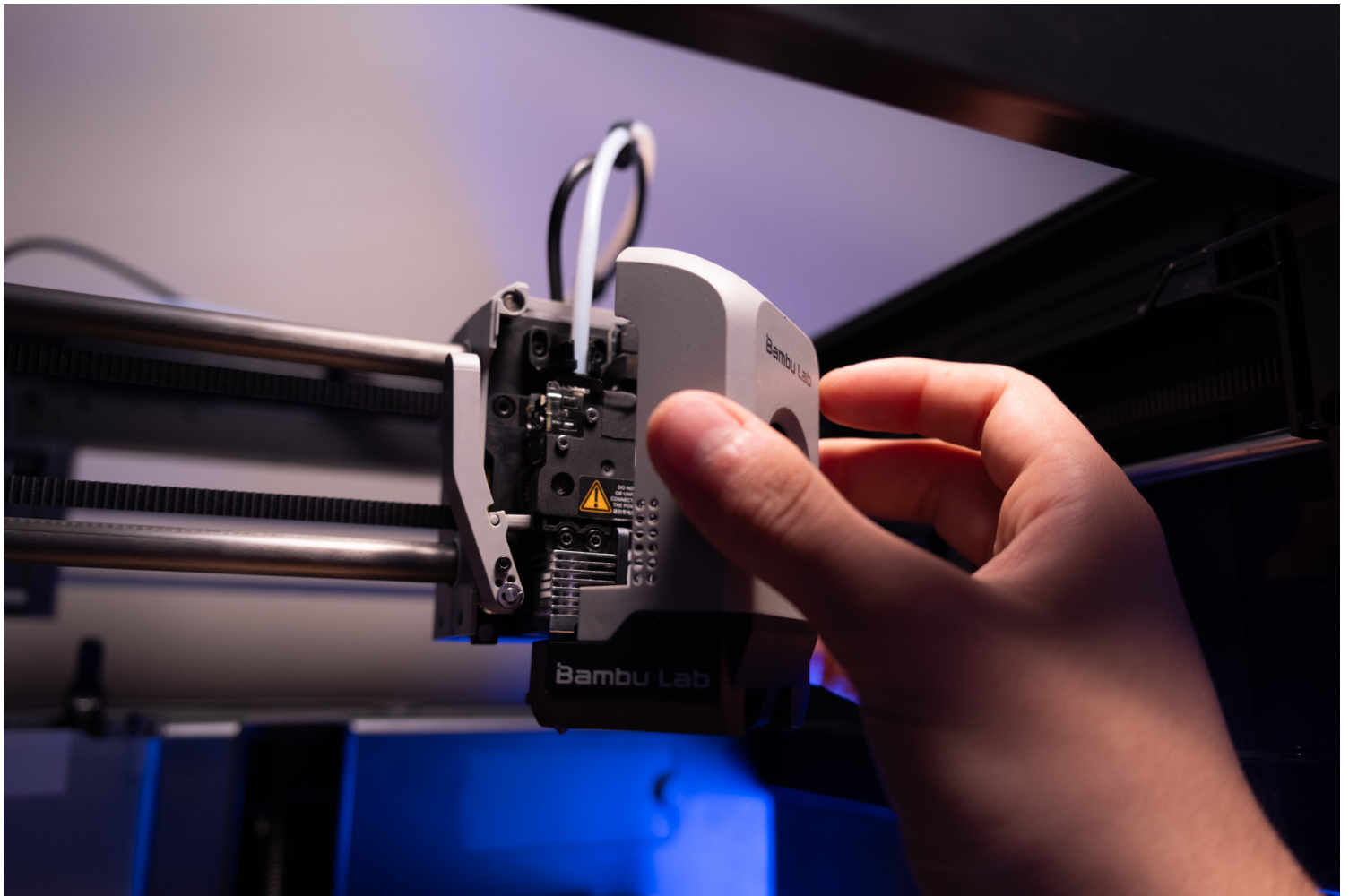
Step 3: Route all the loose cables through the plastic wire clip



Step 4: Plug in the the hotend fan and the heater connectors to the board



Step 5: Reattach your magnetic cover



Step 6: Finally, plug in your printer, turn on the power, and start printing! Optionally, apply a coat of [Plastic Repellent Paint](#) to your hotend to improve the performance!



This is the end of the Mako for Bambu Lab Upgrade Kit Installation Instructions.