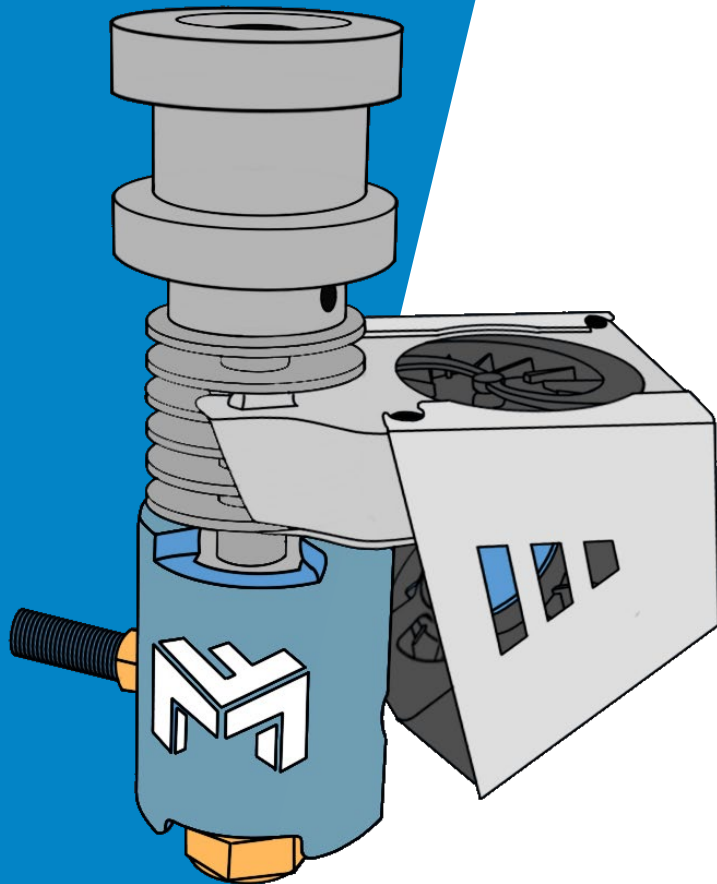




PICO HYBRID



USER MANUAL

Part List and Assembly Instructions

Including:

1.75mm Bowden Setup

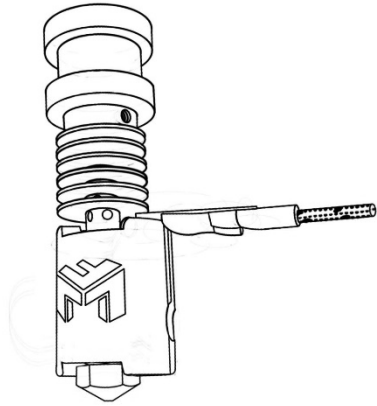
Direct Drive Setup

Bowden Setup

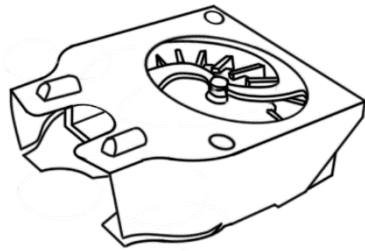
Additional Part Fan

Nozzle Changing

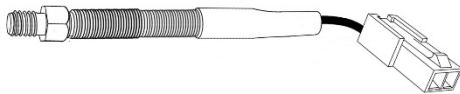
WHATS IN THE BOX



Pico Hybrid Assembly



Heat Break Cooling Fan

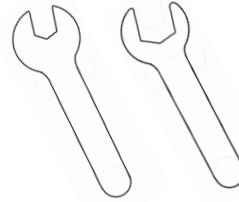


Thermistor

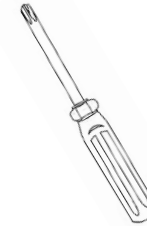
Tools



Allen Wrenches
0.9mm and 2mm



Flat Wrenches
7mm and 11mm



Small Phillips Screwdriver

Small Parts



Bowden Coupler
1.75mm and 3.00mm



Bowden Clip

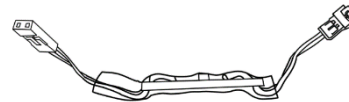


Direct Drive Plug



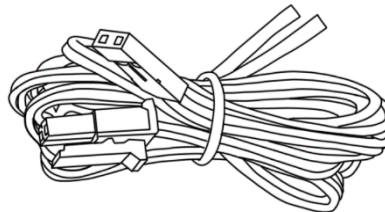
PTFE Tubing
2x4mm and 3x4mm

Fan Voltage Regulator



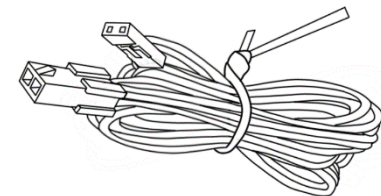
Voltage Regulator

Wiring Harnesses



Thermistor Harness

Blue and Yellow



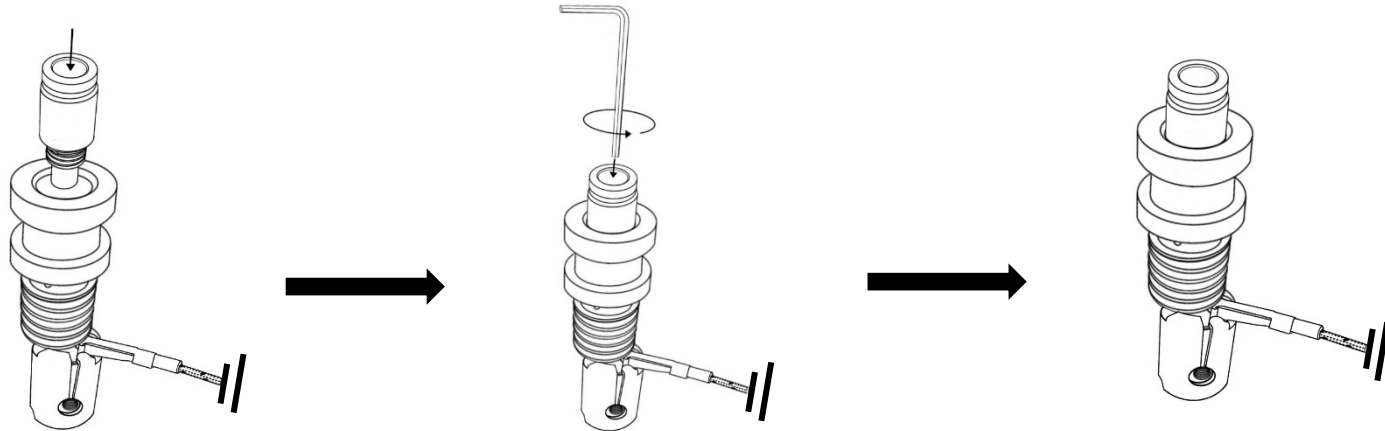
Heater Harness

Black and Red

IMPORTANT NOTES	Wire Length Shortened	Wire Length Cutoff	Connected Terminals
- Sizing of parts may vary across illustrations to enhance relevant details. - Wiring length is not reflective of the actual wire length and is shortened for simplicity. - Previous assembly steps may not be visible for each stage of setup.			

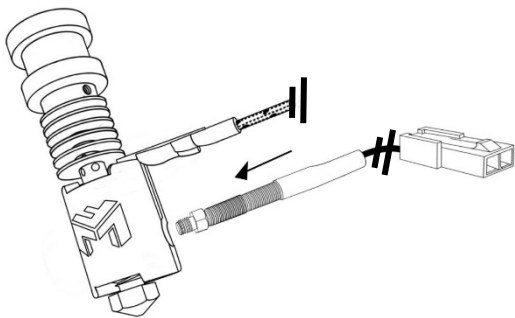
Step 1

Using the 2mm Allen wrench, thread the 1.75mm Bowden coupler into the top of the groove mount.



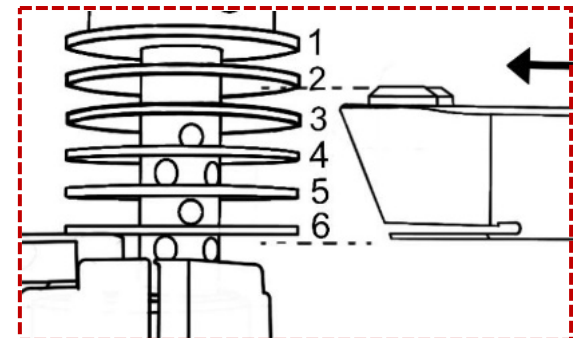
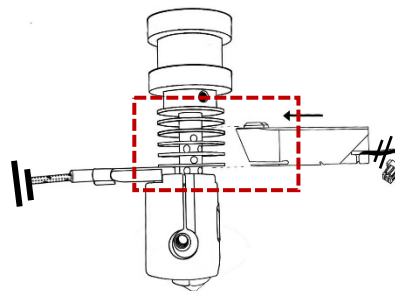
Step 2

Thread the thermistor into either the left or right side of the heater block



Step 3

Push the heat break cooling fan into the heatsink, with the nubs between the 2nd and 3rd fin from the top.



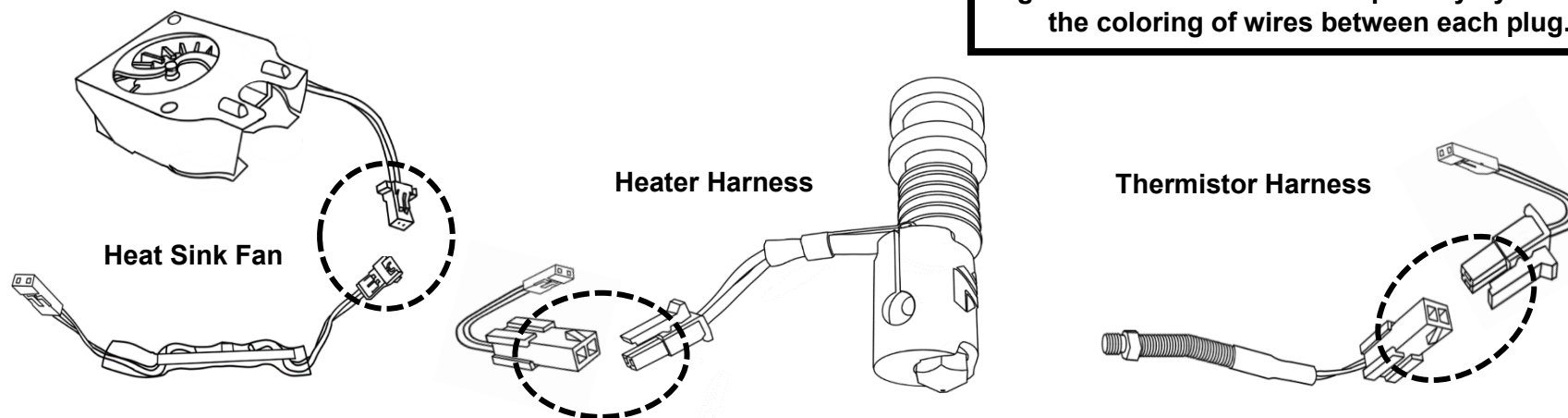
Users with the part cooling fan should refer to that manual during this step.

Step 4

Mount the hot end to the printer and connect all the wiring. Refer to the wiring schematics on our website for connecting cables to the motherboard.

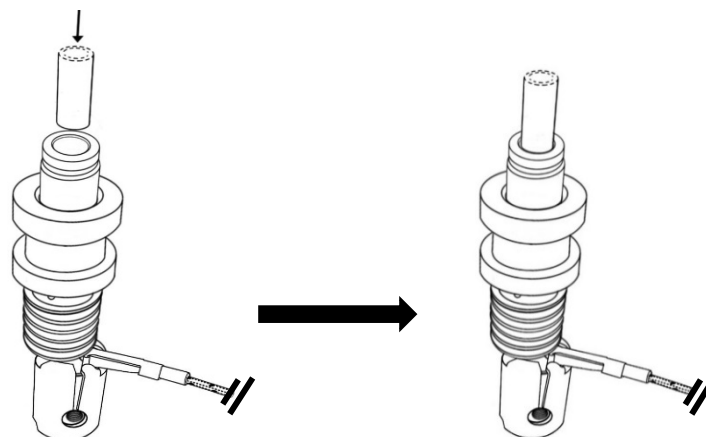
WARNING

Wiring reverse polarity can damage Voltage Regulator. Ensure the correct polarity by matching the coloring of wires between each plug.



Step 5

Insert the filament guide tube from the extruder into the top of the 1.75mm Bowden coupler. Make sure to push down firmly until the tube cannot go any further. When inserting the filament guide tube, you may feel resistance near the top of the coupler. Keep pushing until the tube bottoms out.



Please refer to the wiring diagrams on the User Guides page of the Metaform website for wiring the hotend to the printer.