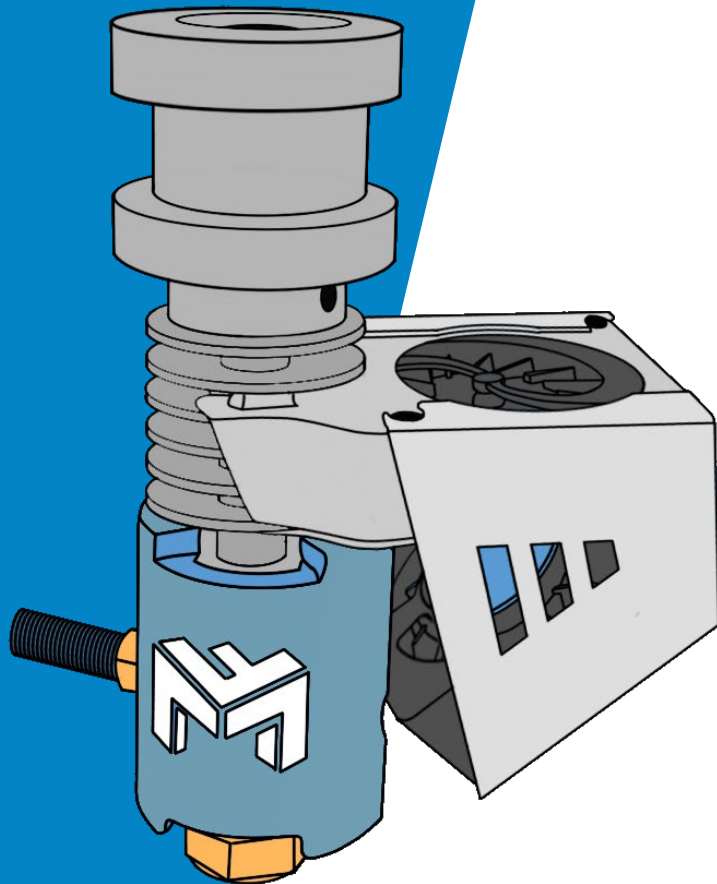




PICO HYBRID



USER MANUAL

Part List and Assembly Instructions

Including:

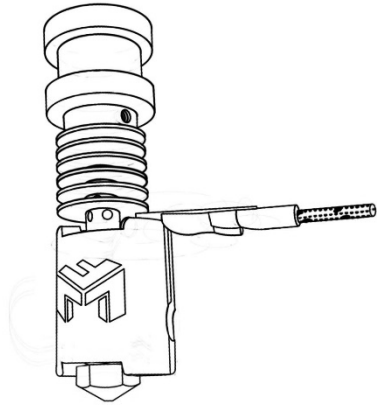
3.00mm Bowden Setup

Direct Drive Setup

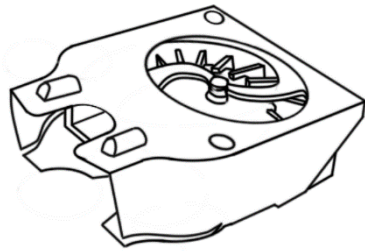
Additional Part Fan

Nozzle Changing

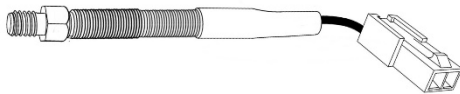
WHATS IN THE BOX



Pico Hybrid Assembly



Heat Break Cooling Fan

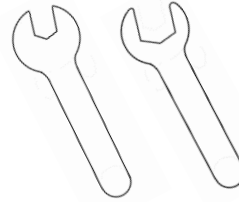


Thermistor

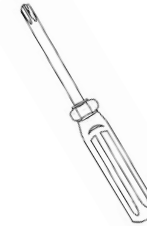
Tools



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

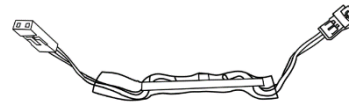


Direct Drive Plug



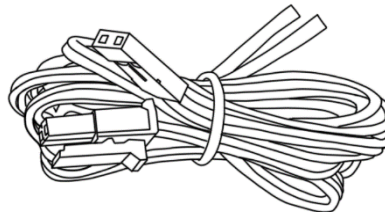
PTFE Tubing
2x4mm and 3x4mm

Fan Voltage Regulator



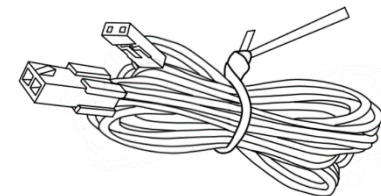
Voltage Regulator

Wiring Harnesses



Thermistor Harness

Blue and Yellow



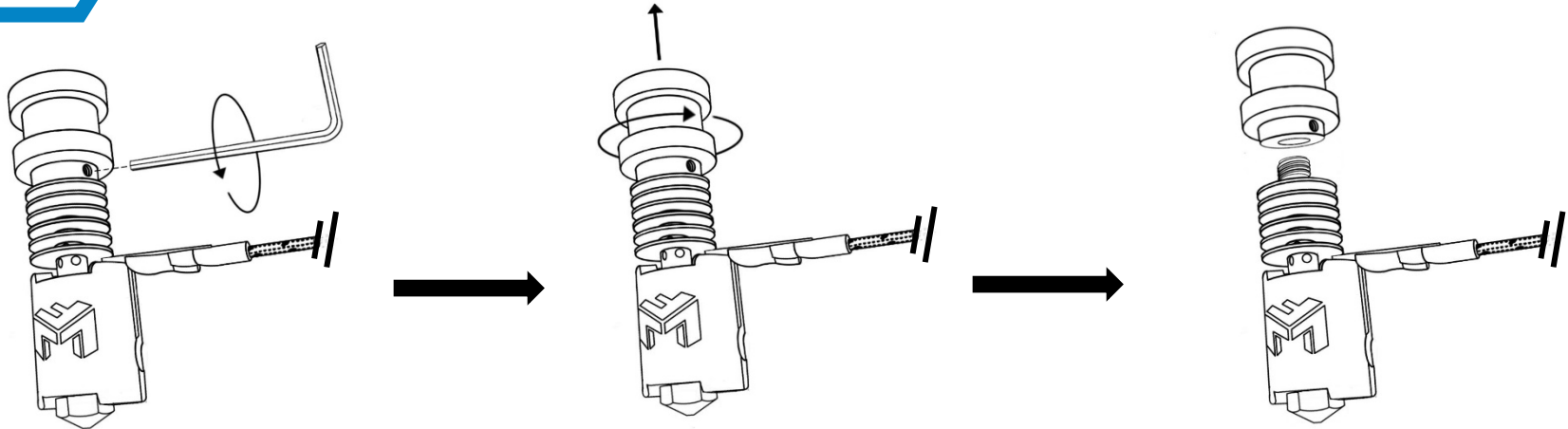
Heater Harness

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.			

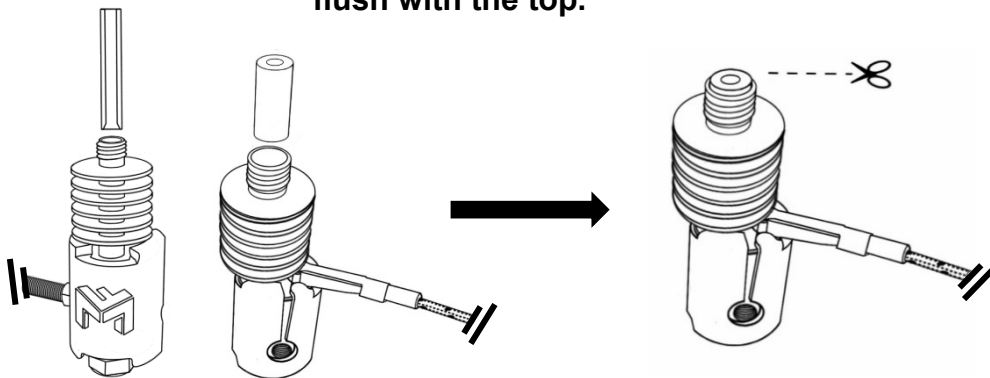
Step 1

Using the 1.2mm set screw Allen wrench, loosen the set screw locking the groove mount to the heatsink and unthread the groove mount so that the top of the heatsink is accessible.



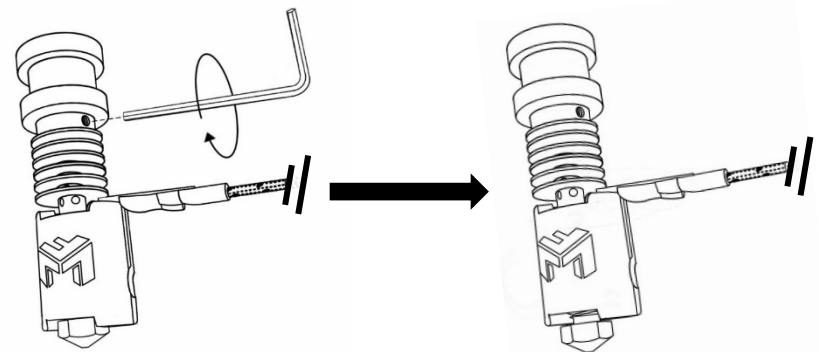
Step 2

Insert the provided 3mm x 4mm PTFE tube into the top of the heatsink with the chamfered end first. Trim the tube so that its flush with the top.



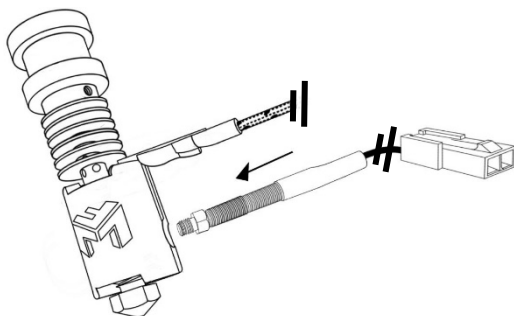
Step 3

Reinstall the groove mount and tighten down the locking set screw.



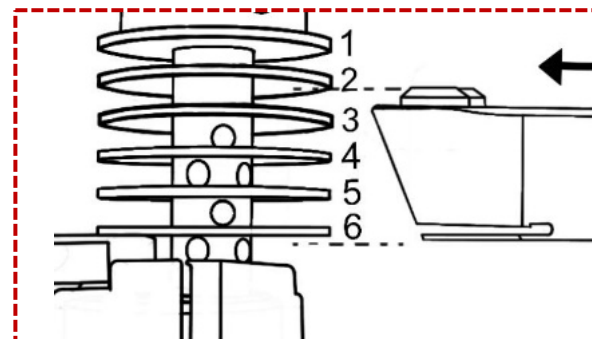
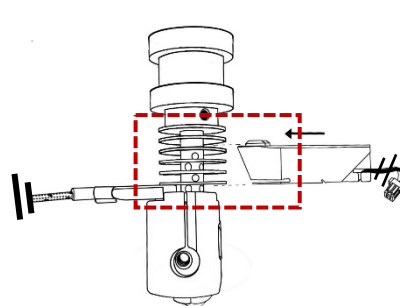
Step 4

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



Step 5

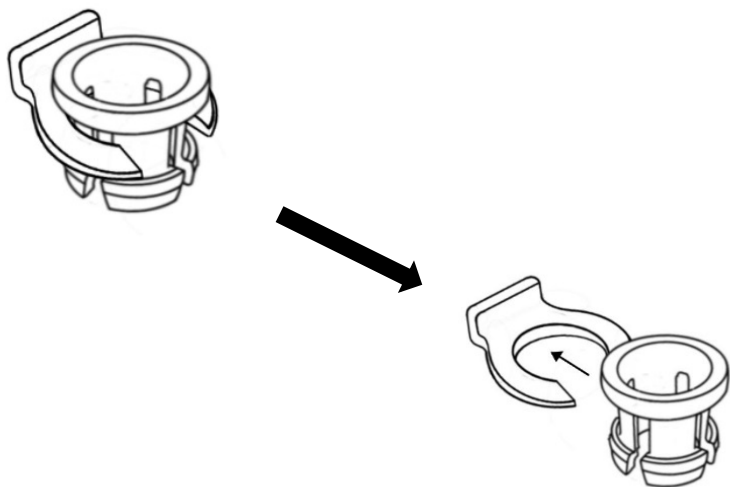
Push the heat break cooling fan into the heatsink, with the nubs between the 2nd and 3rd fin from the top.



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

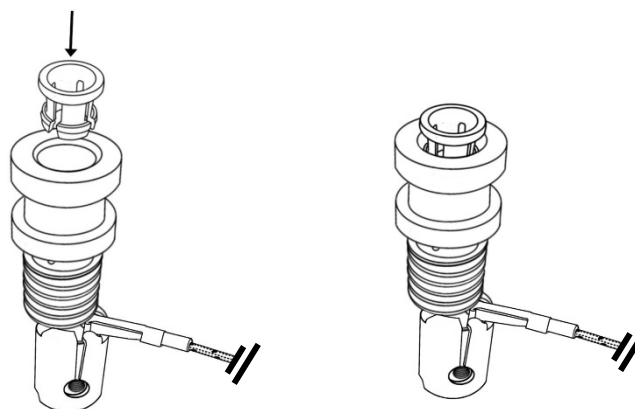
Step 6

Remove the blue locking clip from the 3.00mm Bowden coupler.



Step 7

Push the 3.00mm Bowden coupler into the top of the groove mount. Give the coupler a light tug to ensure it does not come out easily.

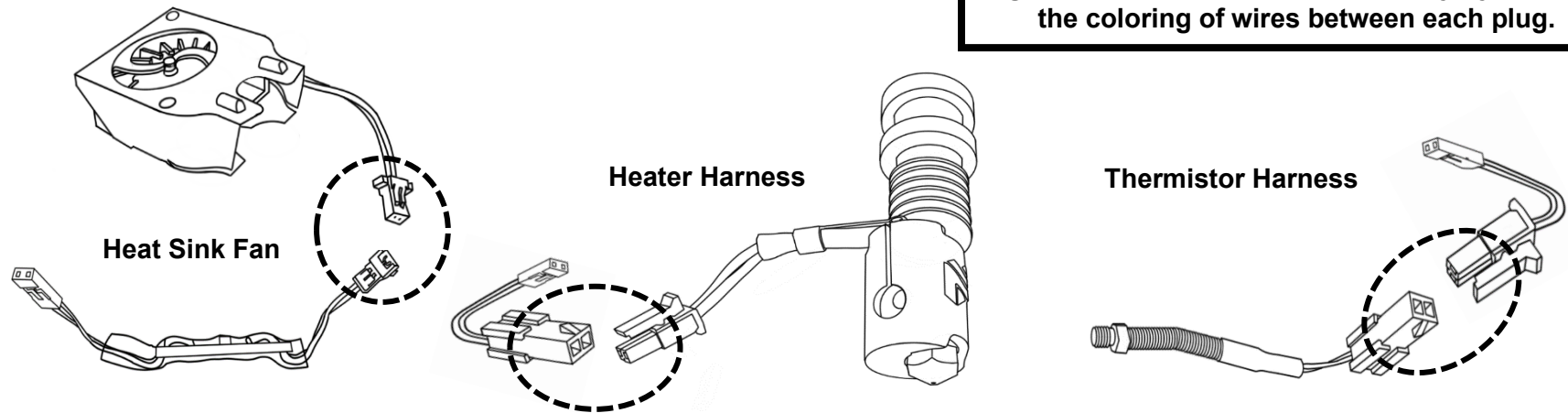


Step 8

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.

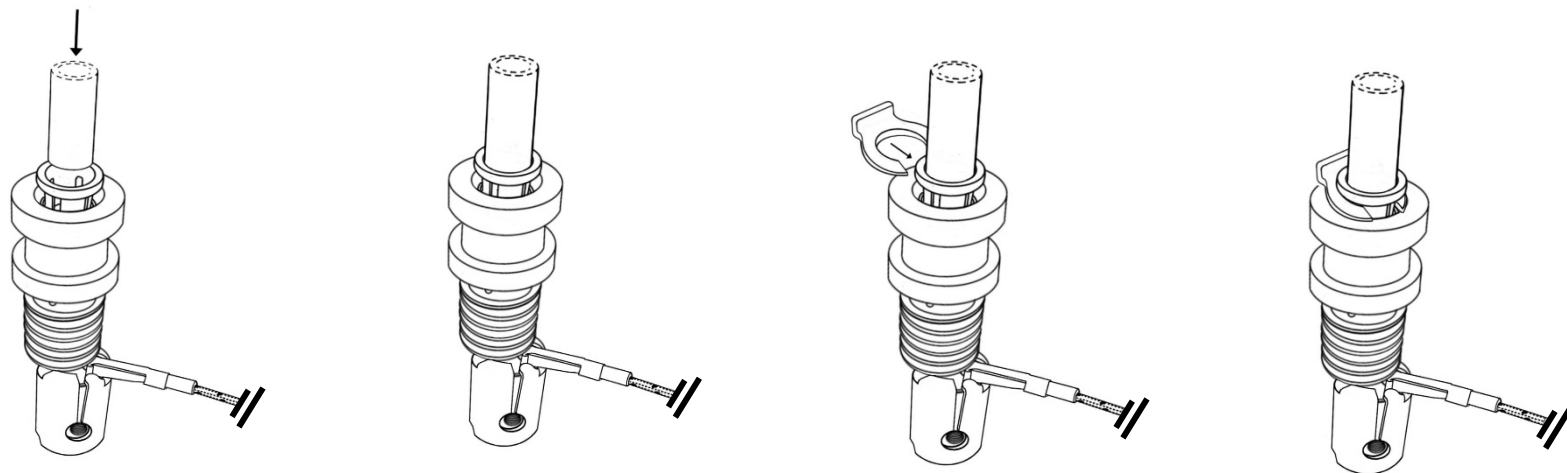
WARNING

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



Step 9

Insert the filament guide tube from the extruder into the top of the 3.00mm Bowden clip and push down until the tube bottoms out. The tube should extend all the way down to the top edge of the heatsink as shown.



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