

Micro Swiss FlowTech™ Hotend for Creality K1, K1 Max and K1C

INSTALLATION INSTRUCTIONS

Tools Required:

- 1.5mm Allen wrench
- 2.0mm Allen wrench
- 7mm wrench

What's in the box:

M3022 Hardware Kit

- Short Copper Thermal Adapter
- Long Titanium Mounting Screws (2x)

M3024 Hardware Kit

- Long Copper Thermal Adapter
- Short Titanium Mounting Screws (2x)

- Silicone Sock
- Thermal Paste
- Heater Core
- 0.4mm Nozzle

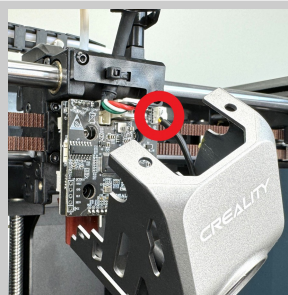
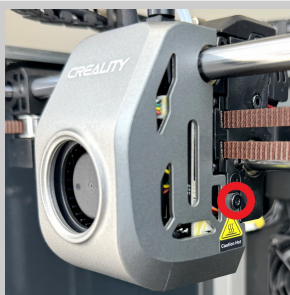
STEP 1



SAFETY / PREPARATION

- Unload the filament from the printer.
- Allow the hotend to cool down to room temperature.
- Power off the 3D printer.
- Disconnect the power cable.

STEP 2

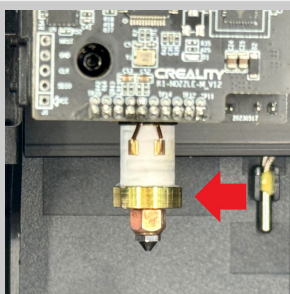
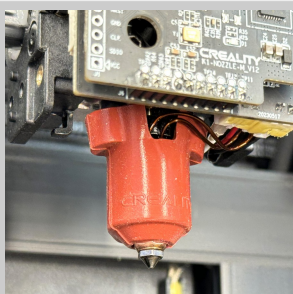


REMOVE THE FAN SHROUD

(K1 Max Only)

- Remove the two screws holding the LiDAR sensor. (2.0mm Allen wrench)
- Remove the screws from both sides of the fan shroud and then pull the fan shroud off. (2.0mm Allen wrench)
- Disconnect the fan cable from the breakout board.

STEP 3

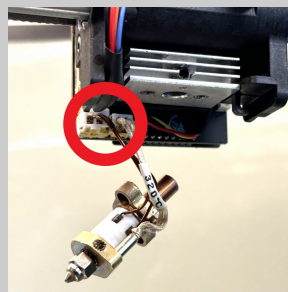
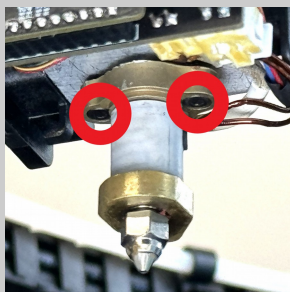
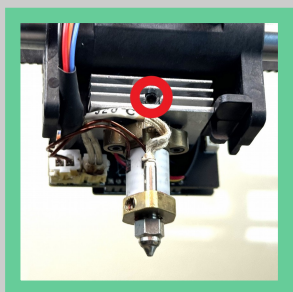


REMOVE THE SILICONE SOCK

- Pull the silicone sock off of the heater core.

There is a ridge near the bottom of the stock hotend so the silicone sock will need to be pinched and pulled over the ridge.

STEP 4

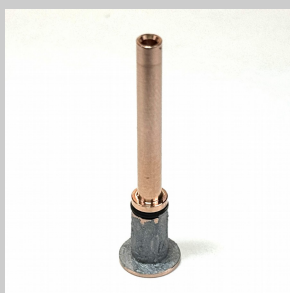


REMOVE THE ORIGINAL HOTEND

(Older K1 and K1 Max Only)

- Loosen the set screw in the back of the heatsink. (2.0mm Allen wrench)
- Remove the two screws holding the heater core. (1.5mm Allen wrench)
- Disconnect the heater and thermistor cables and remove the hotend.

STEP 5

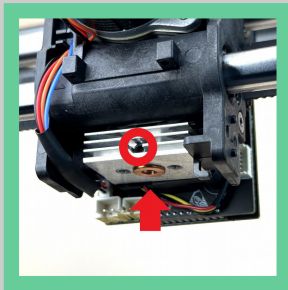
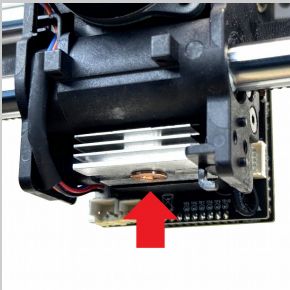


PREPARE THE COPPER THERMAL ADAPTER

The FlowTech kit comes with two different Copper Thermal Adapters to accommodate both the old and new variations of K1 series 3D printers.

- Select the Copper Thermal Adapter that matches the diameter of the hole at the bottom of your 3D printer's heatsink.
- Spread a thin coat of thermal paste onto the selected Copper Thermal Adapter.

STEP 6



INSTALL THE COPPER THERMAL ADAPTER

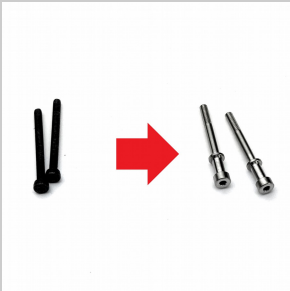
- Insert the Copper Thermal Adapter into the heatsink.

(Older K1 and K1 Max Only)

- While firmly pushing the Short Copper Thermal Adapter up into the heatsink, tighten the set screw in the back of the heatsink. (2.0mm Allen wrench)

The newer K1 series heatsinks do not have a set screw in the back. The Long Copper Thermal Adapter will be held inside by the O-ring until the nozzle is installed.

STEP 7



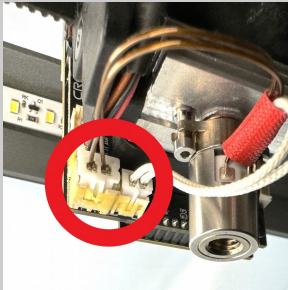
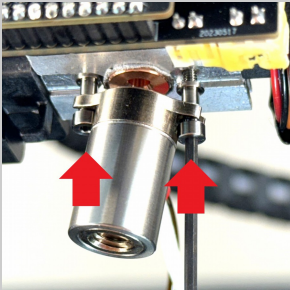
PREPARE THE TITANIUM MOUNTING SCREWS

The FlowTech kit comes with two different pairs of Titanium Mounting Screws to accommodate both the old and new variations of the K1 series 3D printers.

- Gather the two Titanium Mounting Screws that are similar the length to your original hotend's screws.

Do not use the original hotend's screws with the FlowTech hotend.

STEP 8



INSTALL THE HEATER CORE

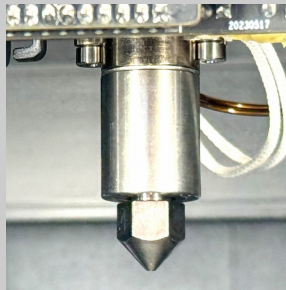
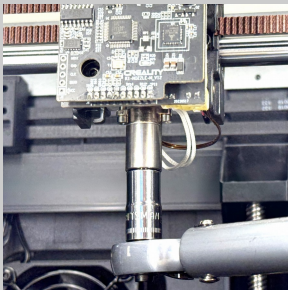
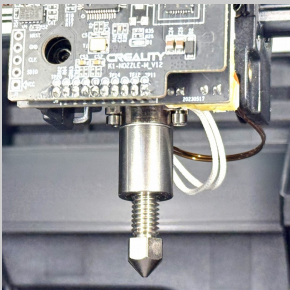
- Attach the heater core using the selected Titanium Mounting Screws. (1.5mm Allen wrench)

Position the heater core so that the cables extend towards the back of the printer.

The heater core will still be free to wobble around after installing the screws.

- Attach both the heater and thermistor connectors to the matching ports on the breakout board.

STEP 9



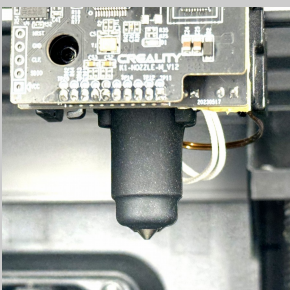
INSTALL THE NOZZLE

- Install and tighten the nozzle until it is snug. (7mm wrench)

Recommended torque: 15 inch-pounds / 1.7 Newton Meters.

There is no need to heat the hotend before tightening the FlowTech nozzle.

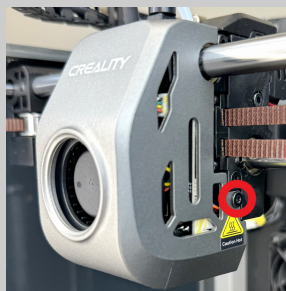
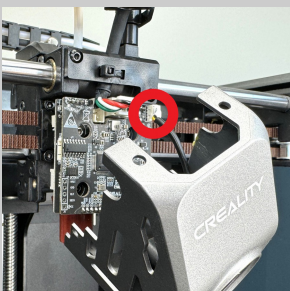
STEP 10



INSTALL THE SILICONE SOCK

- Align the cutout slot in the silicone sock with the heater core cables.
- Push the silicone sock up until it wraps around the top of the heater core.

STEP 11



REINSTALL THE FAN SHROUD

- Reattach the part cooling fan connector to the breakout board.

- Attach the fan shroud and fasten using two screws. (2.0mm Allen wrench)

(K1 Max Only)

- Reattach the LiDAR sensor using two screws. (2.0mm Allen wrench)