MICROSWISS M3101 Flow Tech Hotend Installation Guide

Contents

MICROSWISS M3101 Flow Tech Hotend

Product Information

Specifications:

- SKU: M3101
- Compatible with: Creality K1, K1 Max, and K1C
- Includes: M3022 Hardware Kit, M3024 Hardware Kit

FAQ

Q: What should I do if the new hotend does not fit my printer model?

A: If the new hotend does not fit, double-check that you have selected the correct Copper Thermal Adapter for your printer model. Contact customer support for further assistance.

Q: Can I reuse the silicone sock from the original hotend?

A: It is recommended to use the new silicone sock provided with the FlowTech kit for optimal performance and compatibility.

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

    Heater Core
  - 0.4mm Nozzle
  - Thermal Paste
  - REMOVE THE

INSTALLATION INSTRUCTIONS

STEP 1

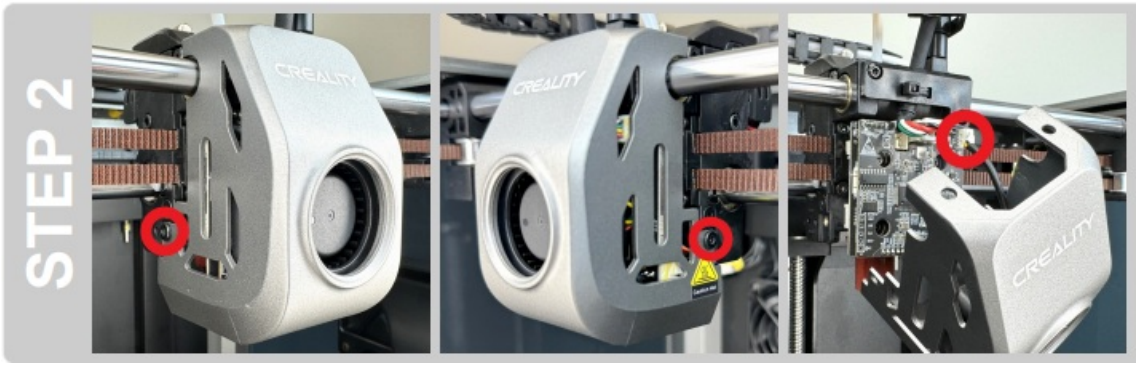
SAFETY / PREPARATION

- 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

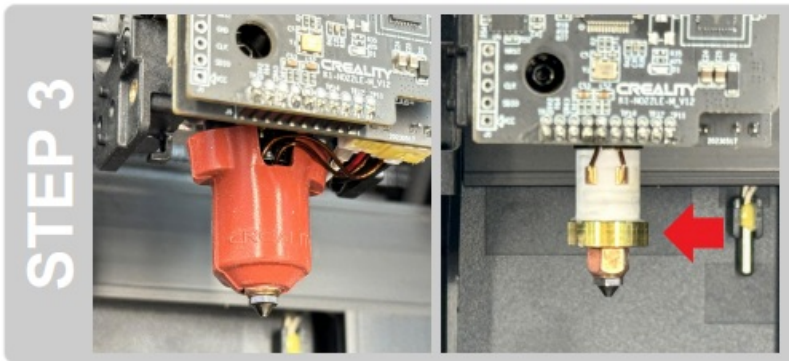
REMOVE THE FAN SHROUD
(K1 Max Only)

- 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

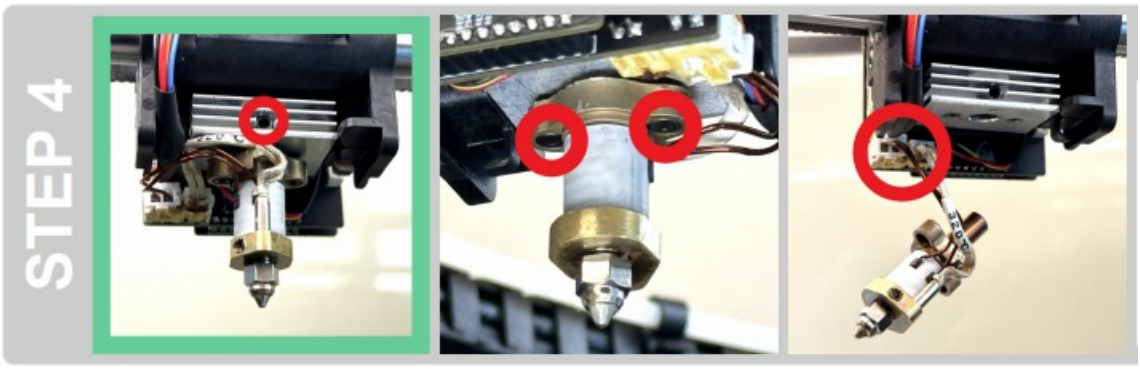
REMOVE THE SILICONE SOCK
Pull the silicone sock of of the heater core.
There is a ridge near the bottom of the stock hotend so the silicone sock will need to be pinched and pulled over the ridge.



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

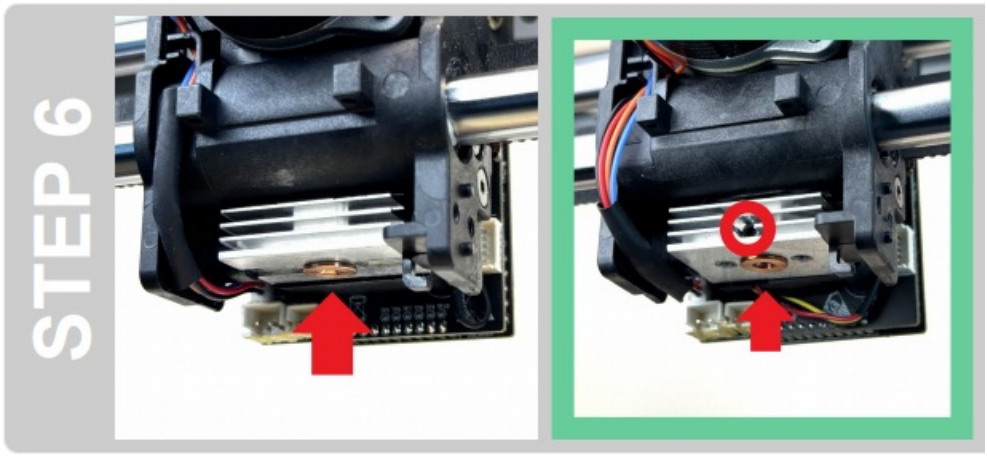
PREPARE THE COPPER THERMAL ADAPTER
The FlowTech kit comes with two different Copper Thermal Adapters to accommodate both the old and new variations of K1 series 3D printers.

- 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 Adapte

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

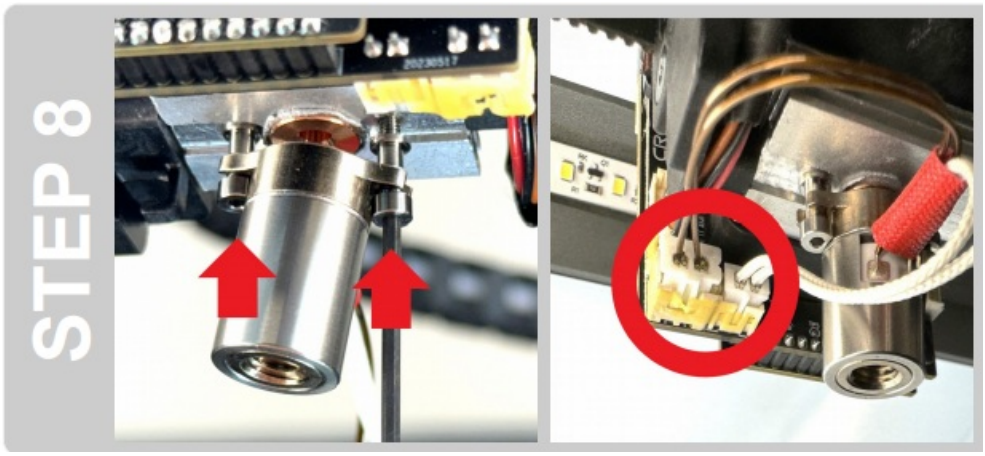
- The FlowTech kit comes with two different pairs of Titanium Mounting Screws to accommodate both the old and new variations of the K1 series 3D printers.
- Gather the two Titanium Mounting Screws that are similar the length to your original hotend's screws.
- Do not use the original hotend's screws 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.

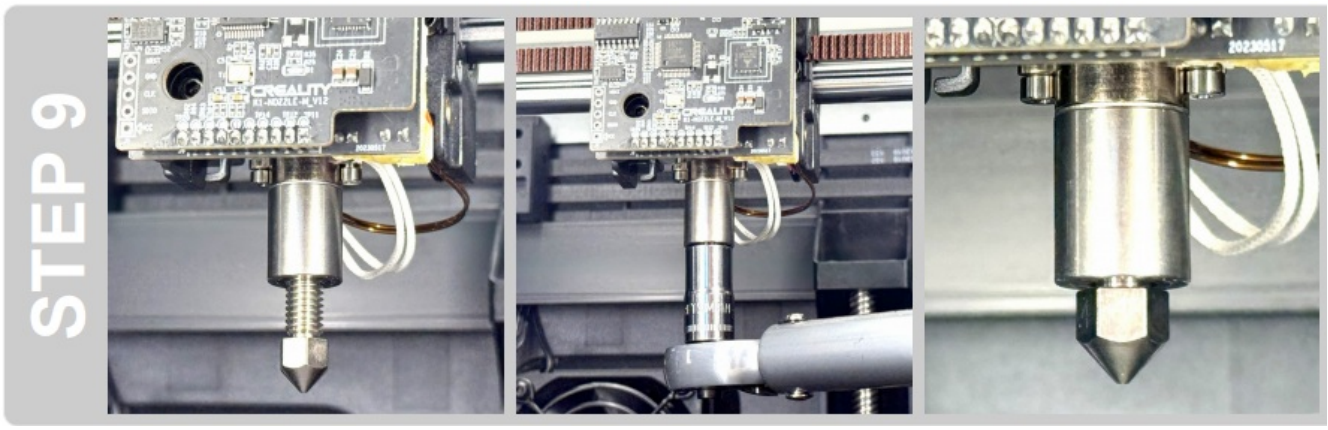
- Attach both the heater and thermistor connectors to the matching ports on the breakout board.



STEP 9

INSTALL THE NOZZLE

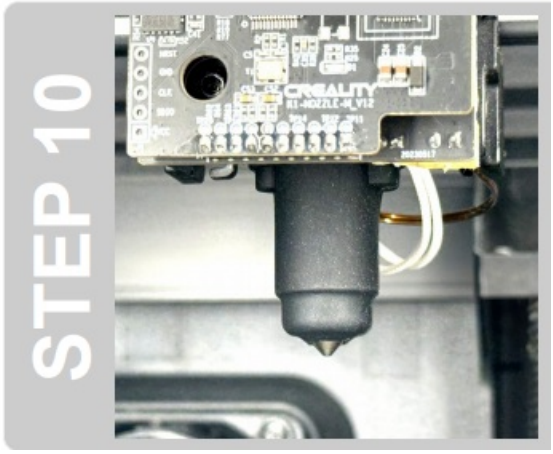
- Install and tighten the nozzle until it is snug. (7mm wrench)
- Recommended torque: 15 inch-pounds / 1.7 Newton Meters.
- There is no need to heat the hotend before tightening the FlowTech nozzle.



STEP 10

INSTALL THE SILICONE SOCK

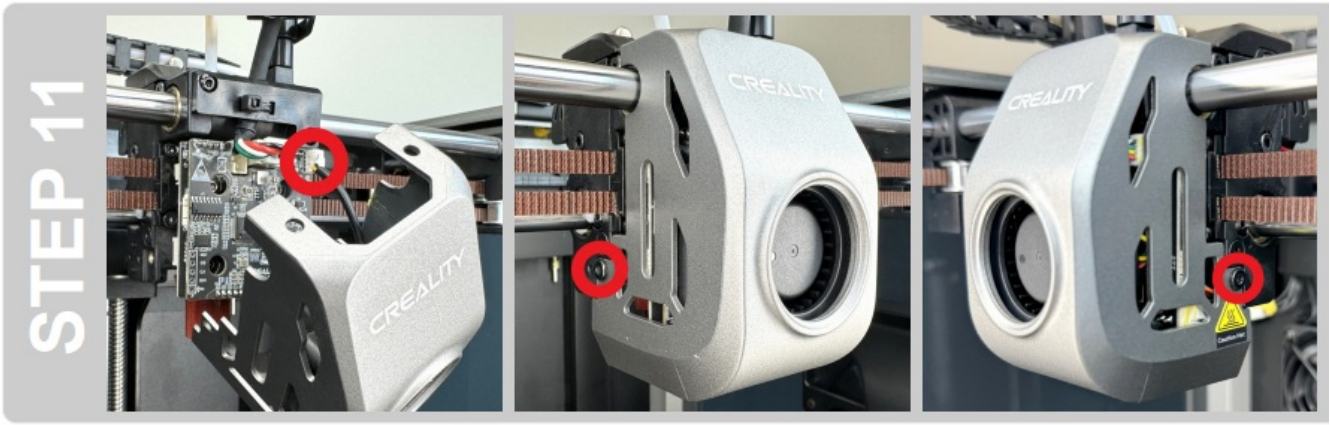
- Align the cutout slot in the silicone sock with the heater core cables.
- Push the silicone sock up until it wraps around the top of the heater core.



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)



Documents / Resources

	MICROSWISS M3101 Flow Tech Hotend [pdf] Installation Guide M3101, M3101 Flow Tech Hotend, Flow Tech Hotend, Tech Hotend, Hotend

References

- User Manual