MICRO SWISS M3106 Flow Tech Hotend Installation Guide

Contents

MICRO SWISS M3106 Flow Tech Hotend

Product Information

Specifications:

- **SKU:** M3106
- **Product:** Micro Swiss FlowTech™ Hotend for Creality Ender-3 V3
- **Nozzle Size:** 0.4mm
- **Tools Required:** 1.5mm Allen wrench, 2.0mm Allen wrench, 6mm wrench, 7mm wrench

Product Usage Instructions

- **Step 1: Prepare for Installation**
  - Ensure you have the necessary tools ready: 1.5mm and 2.0mm Allen wrenches, 6mm and 7mm wrenches.
  - Check the contents of the box which should include a Silicone Sock, Heater Core, 0.4mm Nozzle, Titanium Mounting Screw (2x), Copper Thermal Adapter, and Thermal Paste.
- **Step 2: Remove the Fan Shroud**
  Use the appropriate tools to remove the fan shroud carefully.
- **Step 3: Remove the Silicone Sock**
  Ensure the hotend is at room temperature before proceeding. Pinch and pull the silicone sock over the ridge near the bottom of the hotend.
- **Step 4: Remove the Nozzle**
  Remove the nozzle from the hotend.
- **Step 5: Continue with Disassembly**
  Follow the remaining steps in the disassembly process in sequence.

Frequently Asked Questions (FAQ)

- **Q: Can I use this hotend with other 3D printers?**
  A: The Micro Swiss FlowTech™ Hotend is specifically designed for Creality Ender-3 V3 and may not be directly compatible with other models.
- **Q: How often should I replace the Silicone Sock?**
  A: It is recommended to check the condition of the Silicone socket periodically and replace it if it shows signs of wear or damage to ensure optimal performance.

Tools Required

- 1.5mm Allen wrench
- 2.0mm Allen wrench
- 6mm wrench
- 7mm wrench

What’s in the box

- Silicone Sock
- Heater Core
- 0.4mm Nozzle
- Titanium Mounting Screw (2x)
- Copper Thermal Adapter
- Thermal Paste

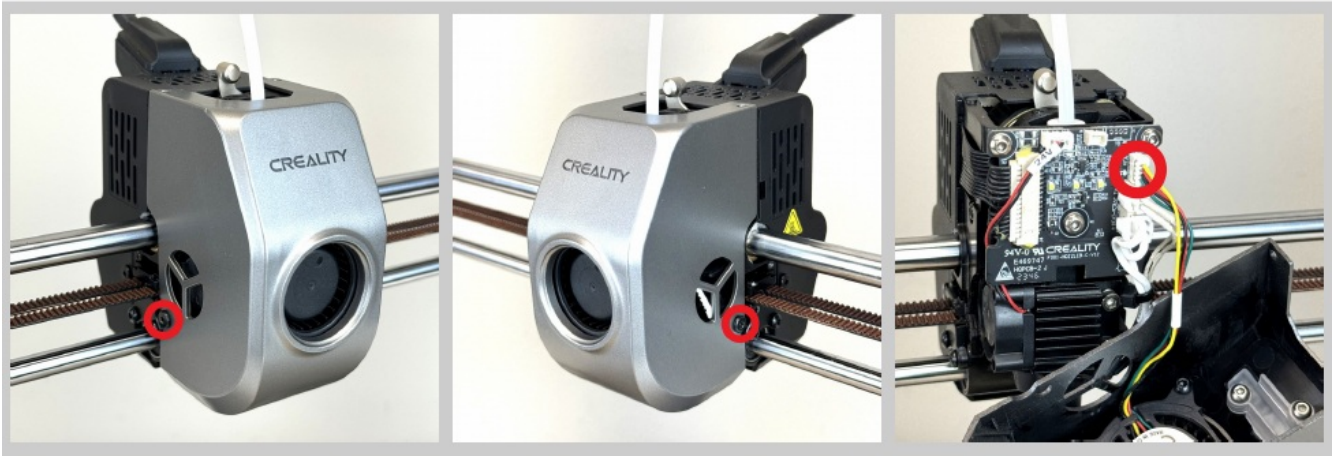
INSTALLATION INSTRUCTIONS

STEP 1
SAFETY/PREPARATION

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

STEP 2
REMOVE THE FAN SHROUD

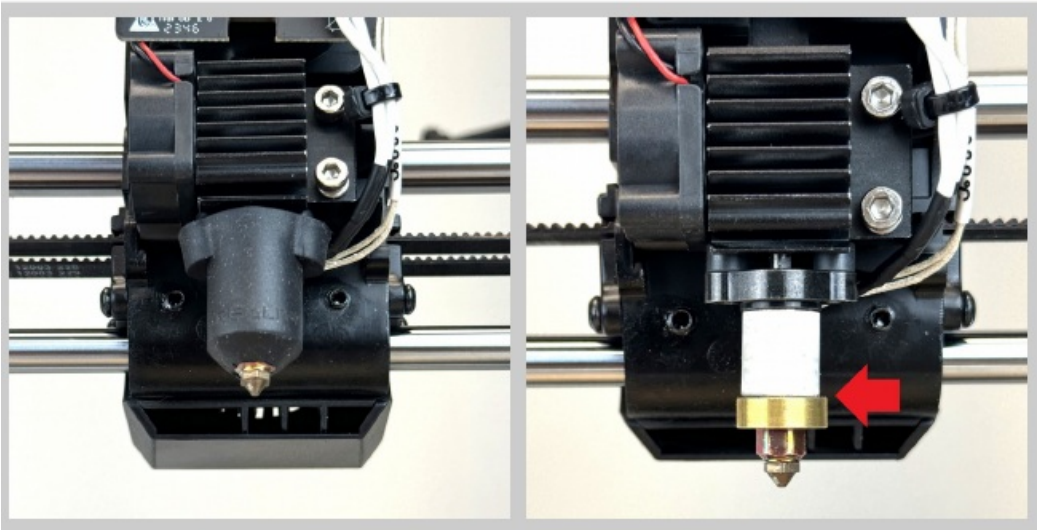
- Remove the screws from both sides of the fan shroud. (2.0mm Allen wrench)
- Pivot the fan shroud back and then pull it up off of the carriage.
- Disconnect the part cooling fan cable from the breakout board.



STEP 3
REMOVE THE SILICONE SOCK

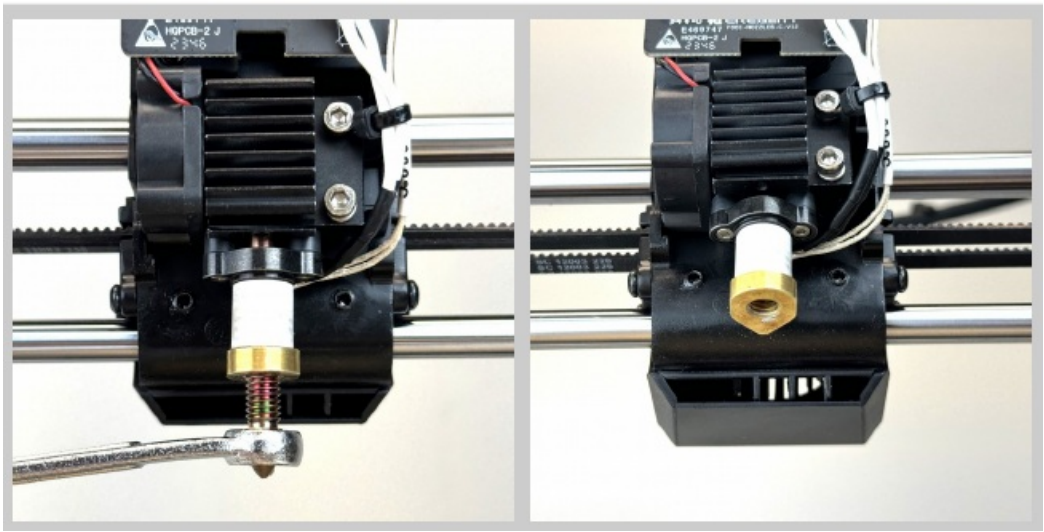
- Verify the hotend is at room temperature ⚠ before touching it.
- Pull the silicone sock off of the heater core.

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.



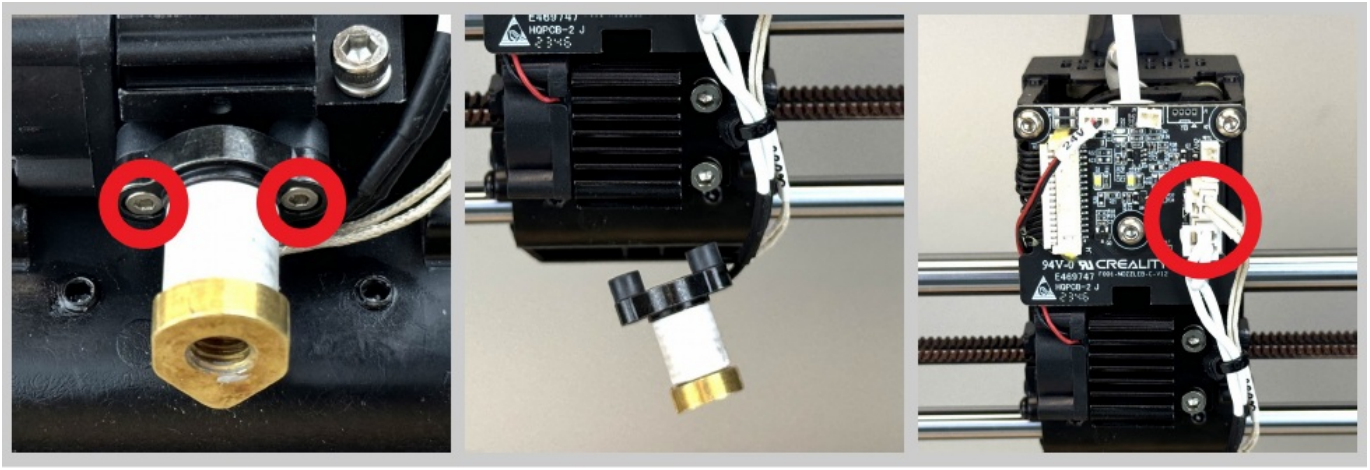
STEP 4
REMOVE THE NOZZLE

- Unscrew the original nozzle. (6mm wrench)



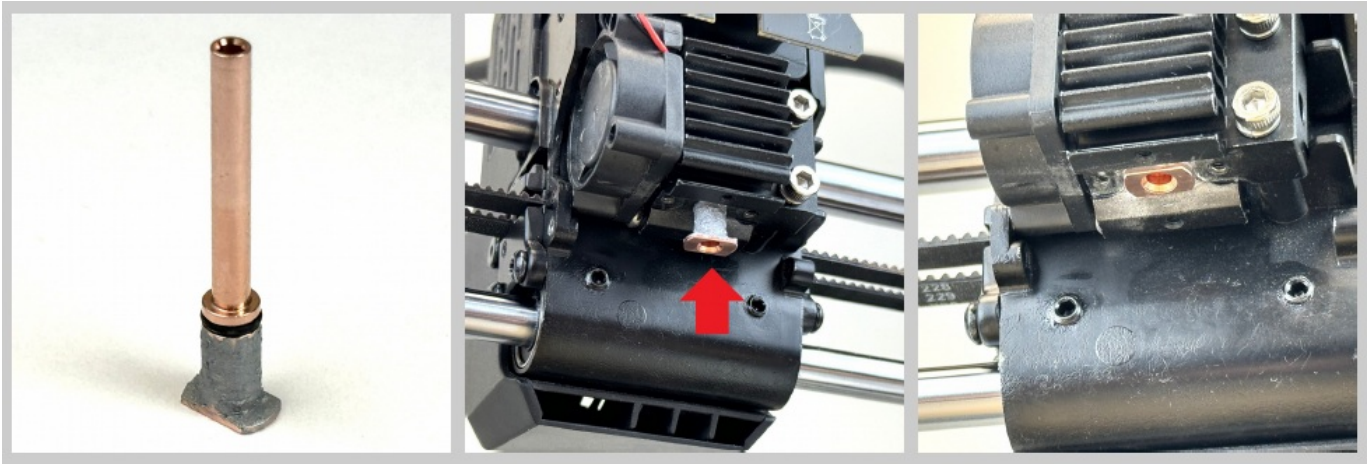
STEP 5
REMOVE THE HEATER CORE

- Remove the two screws that attach the heater core to the heatsink. (1.5mm Allen wrench)
- Disconnect the heater and thermistor cables from the breakout board.



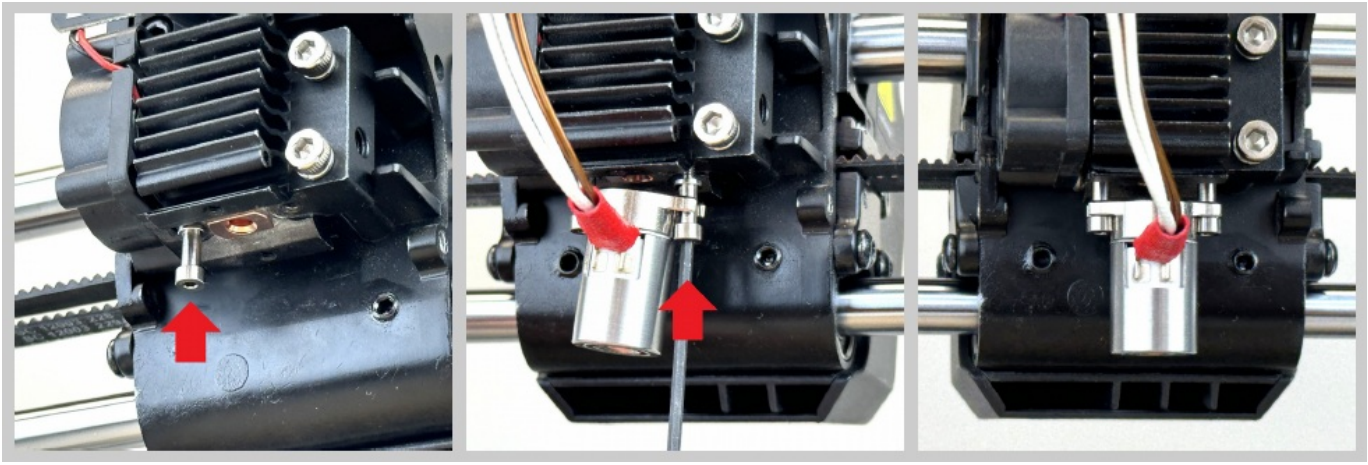
STEP 6
INSTALL THE COPPER THERMAL ADAPTER

- Spread a thin coat of thermal paste to the copper thermal adapter, covering the surface between the bottom flange and the black o-ring (excluding the boring itself).
- Insert the copper thermal adapter into the heatsink.



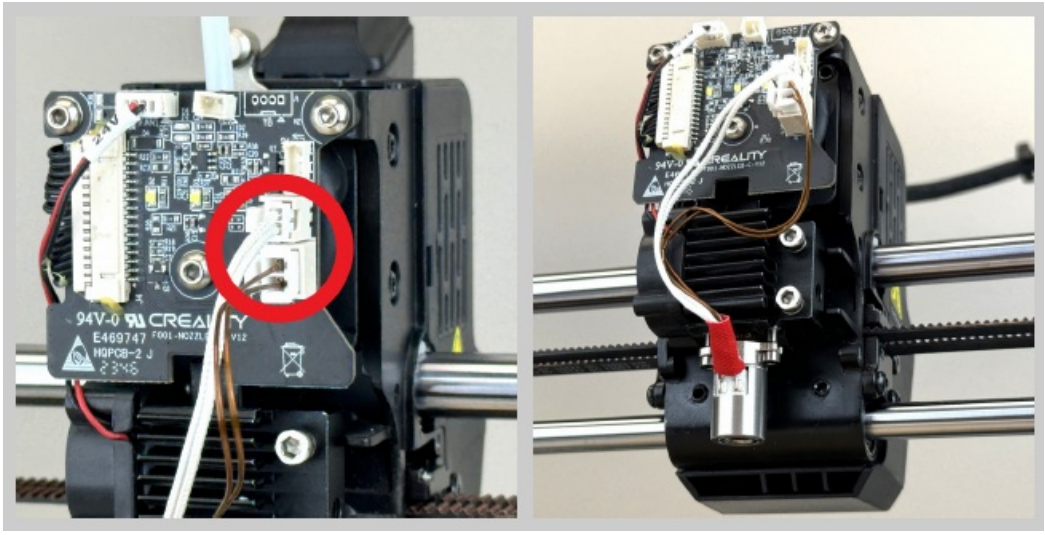
STEP 7
FASTEN THE HEATER CORE

- Attach the heater core to the heatsink using the titanium mounting screws. (1.5mm Allen wrench)
- Position the heater core so that the cables extend towards the front of the printer.
- The heater core will still be free to wobble around even after tightening the two screws.



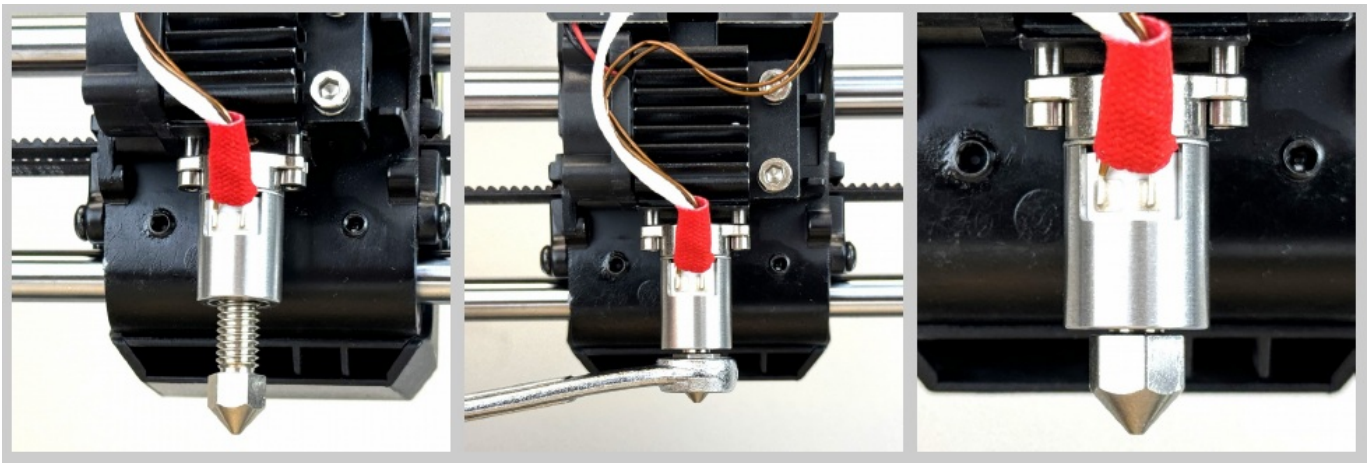
STEP 8
CONNECT THE HEATER CORE

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



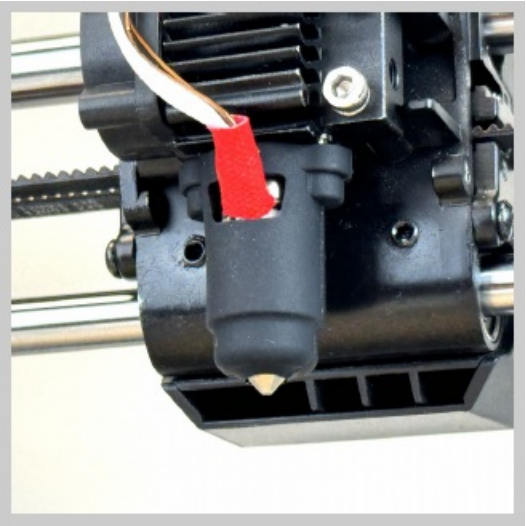
STEP 9
INSTALL THE NOZZLE

- 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.



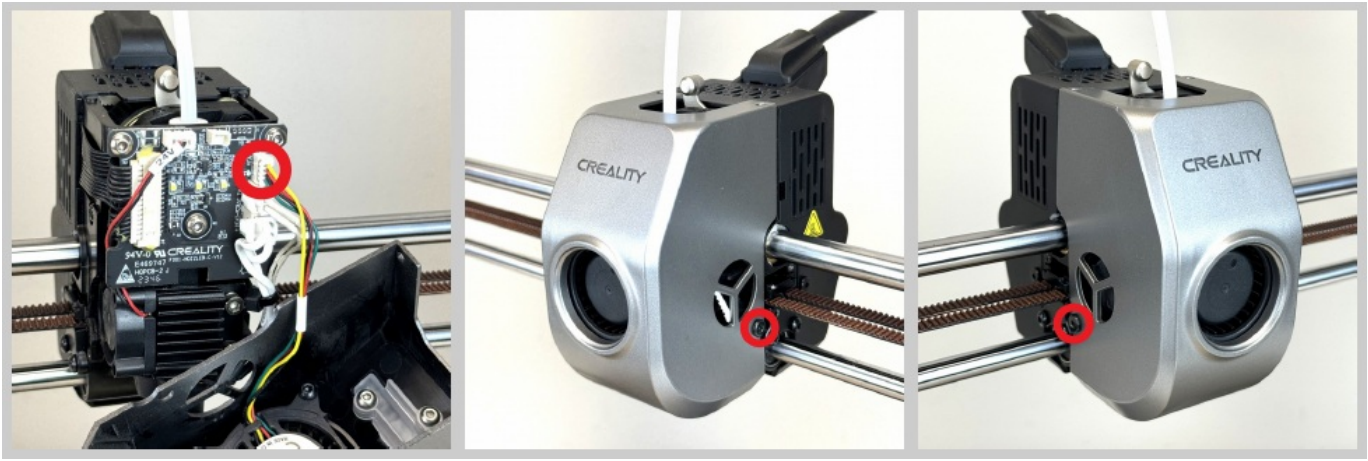
STEP 10
INSTALL THE SILICONE SOCK

- 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.
- Place the fan shroud over the print head.
- Install the two screws to secure the fan shroud. (2.0mm Allen wrench)



www.micro-swiss.com.

Documents / Resources

	[MICRO SWISS M3106 Flow Tech Hotend](#) [pdf] Installation Guide M3106 Flow Tech Hotend, M3106, Flow Tech Hotend, Tech Hotend, Hotend

References

- User Manual