



Microswiss FlowTech™ Hotend for Bambu Lab X1-Carbon INSTALLATION INSTRUCTIONS

Tools Required:

2.0mm Allen wrench

What's in the box:

Heatsink Titanium Mounting Screws (2x) Heater Core 0.4mm Plated Brass Nozzle Silicone Sock 3D Printed Nozzle Tool Fan Mounting Screws (2x)

STEP 1



SAFETY / PREPARATION

- Allow the hotend to cool down to room temperature.
- Power off the printer.
- Disconnect the power cable.
- Press the Filament Cutter Lever on the left side of the print head.

STEP 2





REMOVE THE FAN SHROUD

- Pull the magnetic fan shroud off of the print head.
- Set the fan shroud on top of the print head. Leave the connector attached to the breakout board.

STEP 3





UNFASTEN THE ORIGINAL HOTEND

- Remove the two screws located near the top of the heatsink. (2.0mm Allen wrench)
- Pull the original hotend down to detach it from the carriage.



DISCONNECT THE CABLES

• Disconnect the original hotend's thermistor, heater, and fan cables from the breakout board.





TRANSFER THE FAN

- Remove the two screws securing the cooling fan to the original hotend's heatsink. (2.0mm Allen wrench)
- Attach the cooling fan to the FlowTech heatsink using the two new screws provided with the kit.

(2.0mm Allen wrench)





FASTEN THE FLOWTECH HOTEND

• Secure the FlowTech hotend to the carriage using the original mounting screws. (2.0mm Allen wrench)



CONNECT THE FLOWTECH HOTEND

· Connect the fan, heater, and thermistor cables to the matching ports on the breakout board.





INSTALL THE FAN SHROUD

- Tuck the cables in so that they do not get in the way of the fan shroud.
- · Reinstall the magnetic fan shroud.

Installation Complete!



NOZZLE REPLACEMENT PROCEDURE

The FlowTech nozzles can be swapped while the hotend is at room temperature.

- Press the Filament Cutter Lever on the left side of the print head.
- Detach the magnetic fan shroud and set it on top of the print head.
- Pull the silicone sock off of the heater core.
- Use the provided 3D printed tool to unscrew the nozzle.
- Install and finger tighten the new nozzle until snug using the provided 3D printed nozzle tool. Recommended Torque: 5 inch pounds

Be careful to not over tighten the nozzle if using a socket wrench.

- · Replace the silicone sock.
- · Reinstall the magnetic fan shroud.

Click here for replacement nozzles

FLOWTECH NOZZLE OPTIONS



M3001 Brass Plated Nozzle

Sizes available: 0.25mm, 0.3mm, 0.4mm, 0.6mm, 0.8mm, 1.0mm

M2904 CM2 Nozzle

Hardened Steel Tip

Sizes available: 0.4mm, 0.6mm, 0.8mm, 1.0mm

M2905 CHT Nozzle

High-Flow

Sizes available: 0.4mm, 0.6mm, 0.8mm, 1.0mm

M2907

CHT CM2 Nozzle

High-Flow Hardened Steel Tip

Sizes available: 0.4mm, 0.6mm, 0.8mm, 1.0mm

DBFT-175-04 DiamondBack Nozzle

Diamond Tip

Sizes available: 0.25mm, 0.4mm, 0.6mm, 0.8mm, 1.0mm