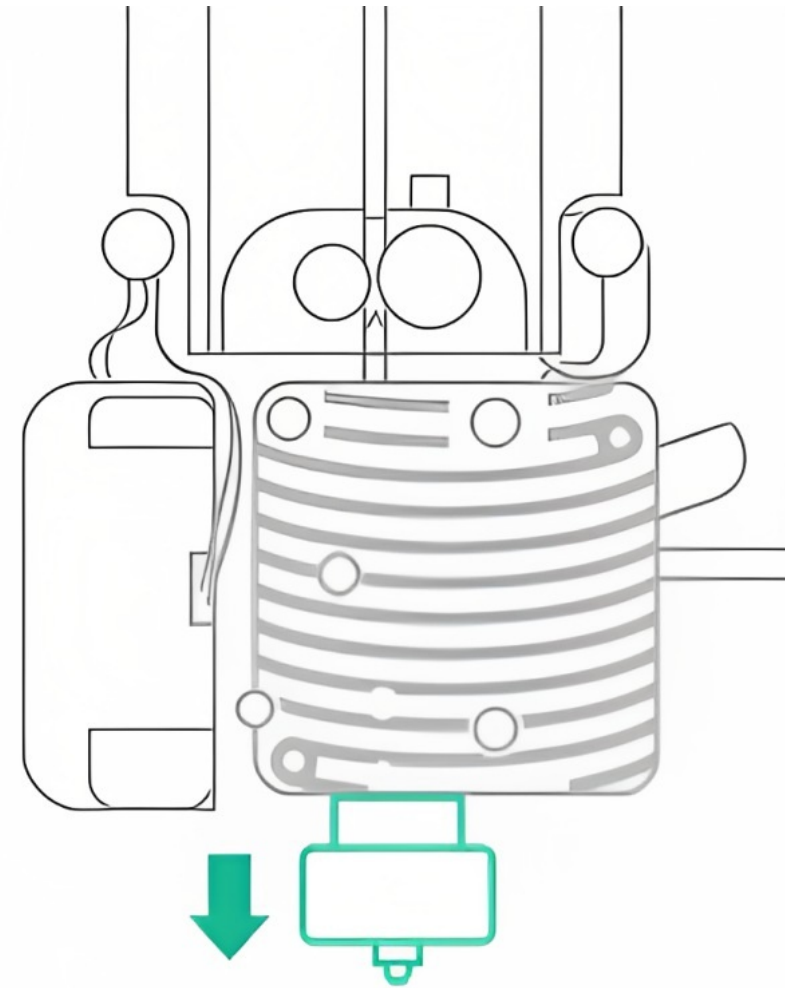




Hot End Replacement

How to replace Element's hot end

Written By: Mosaic Support



INTRODUCTION

NB: Only official Mosaic hot ends should be used. 3rd-party nozzles should not be used with Element and Array.

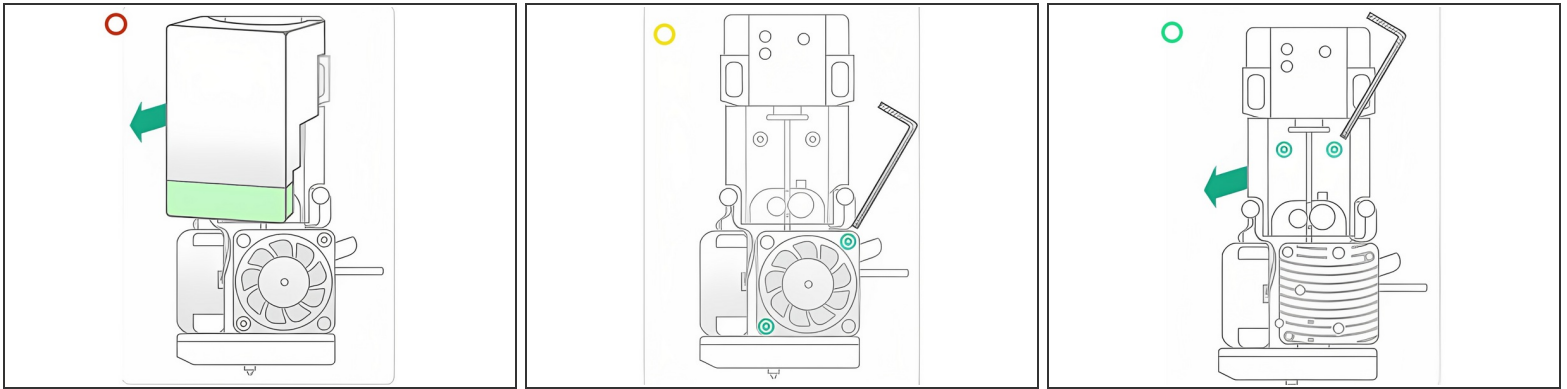
Contact your Account Manager or support@mosaicmfg.com with any questions, or for help ordering replacement hot ends.



TOOLS:

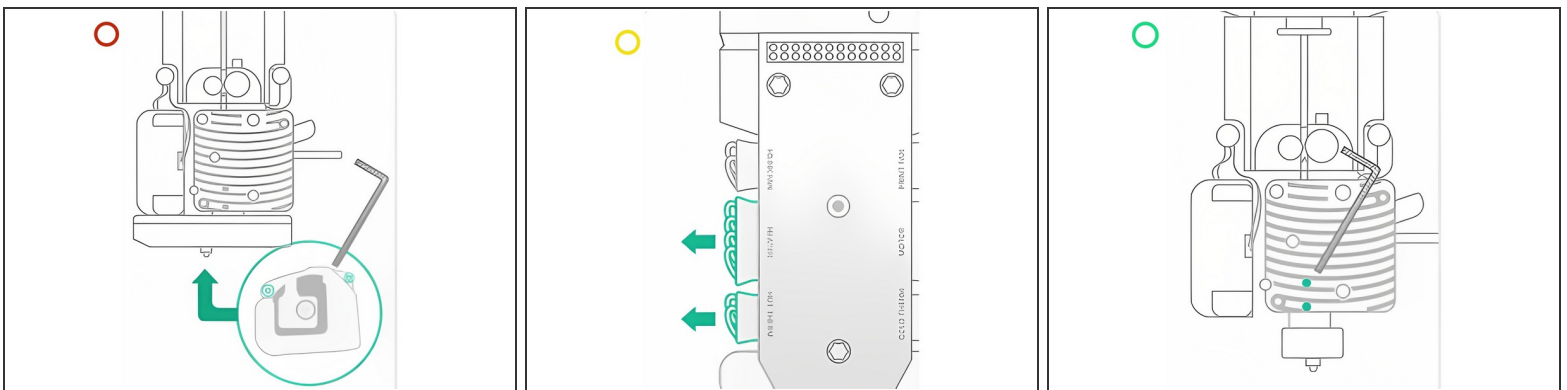
- [2.5 mm Hex Key](#) (1)
 - [1.5mm Hex Key](#) (1)
 - [Thermal Paste](#) (1)
-

Step 1 — Removing Existing Hot End (1)



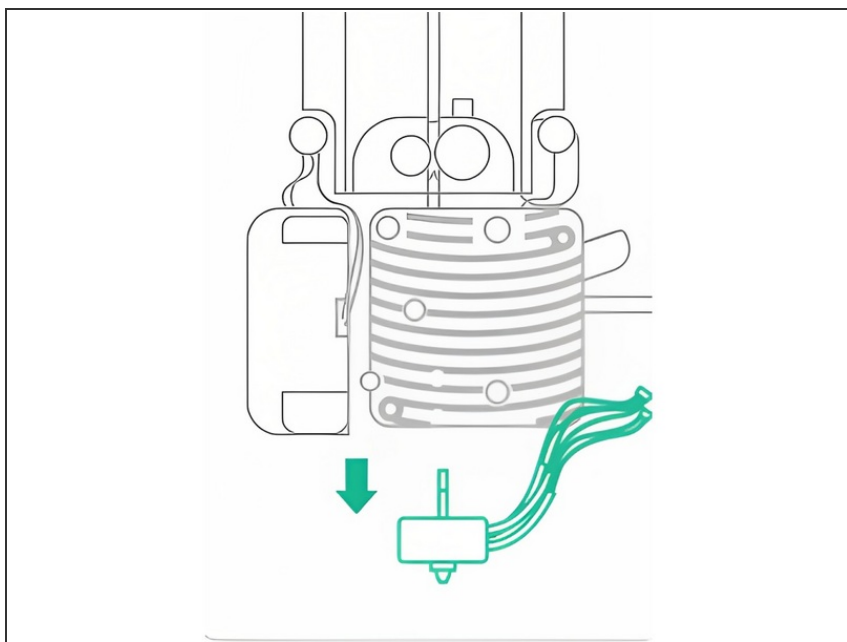
- Ensure the print head is cold and that all filament is removed from the nozzle. Power down the printer and remove the power cable
- Remove the magnetic printhead cover
- Using a 2.5mm Hex Key, remove the heatsink fan by unscrewing the 2 socket-head bolts
- Remove the clear filament window by unscrewing 2 socket-head bolts

Step 2 — Remove Existing Hot End (2)



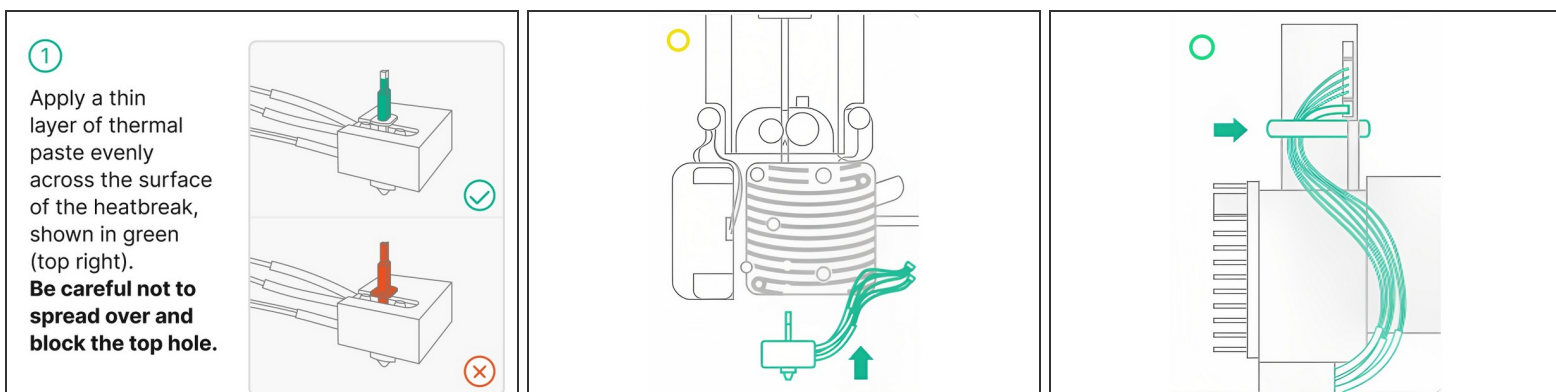
- Remove the fan shroud and part cooling fan by unscrewing 2 socket-head bolts
- Remove the heater cartridge and hot thermistor connector from the PCB
- Using a 1.5mm hex, remove the 2 set screws from the heat sink that hold in the hot end (be careful with these small screws)

Step 3 — Remove Existing Hot End (3)



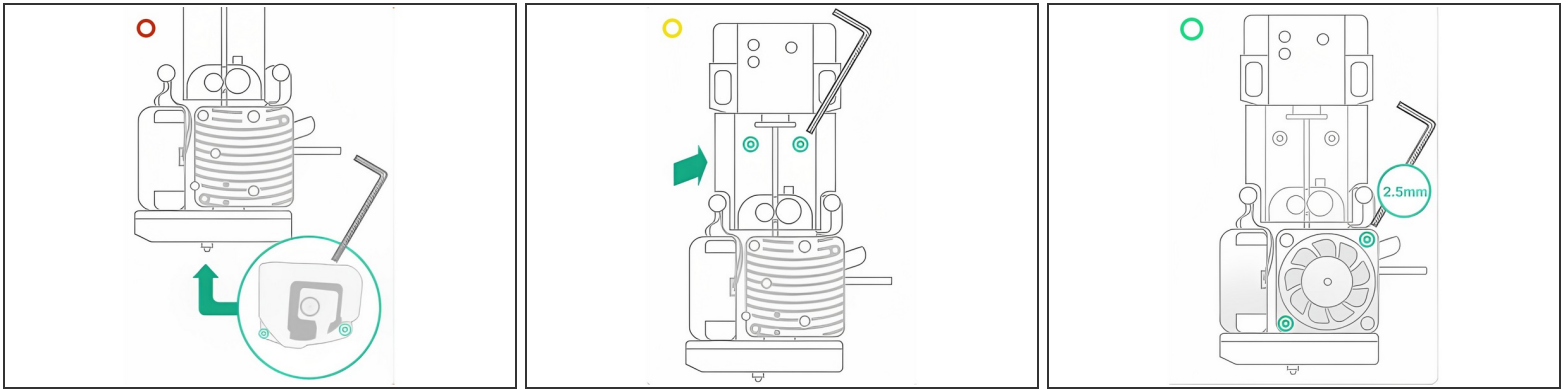
- Remove the hot end assembly

Step 4 — Installing New Hot End (1)



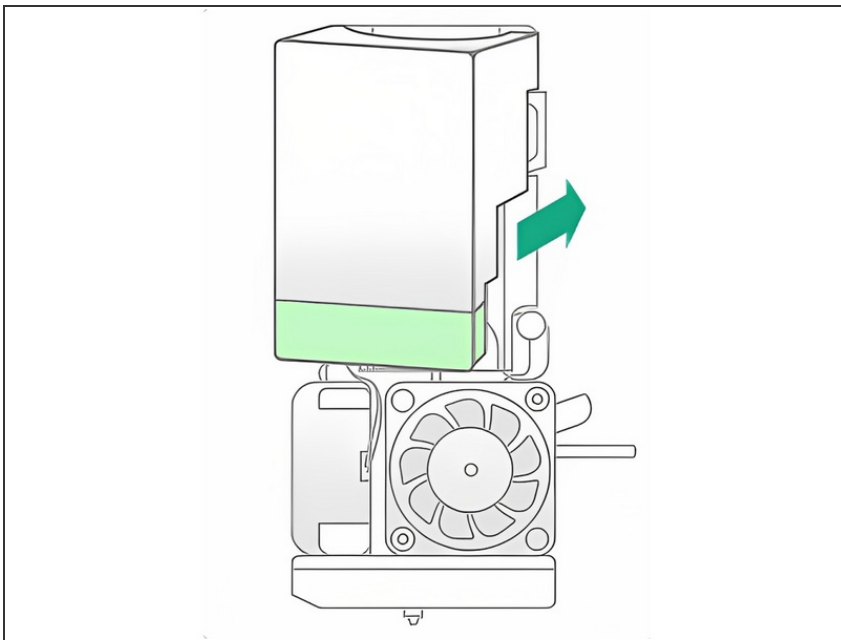
- Apply thermal paste evenly to the heat break of the new Hot End. Take care not to spread paste over the top hole
- Insert the Hot End into the heatsink. Ensure proper vertical alignment so as to not get any leftover thermal paste inside the heat break.
- Tighten the two set screws in the heatsink to lock the Hot End in place.
- Re-install the wiring for the thermistor and heat cartridge. Guide wires through cable channel, which will allow clear filament window to be installed correctly

Step 5 — Installing New Hot End (2)



- Install the fan shroud and cooling fan back in place by tightening 2 socket-head bolts
- Place the clear filament window back, tightening 2 socket-head bolts
- Re-install the heatsink fan by tightening the 2 socket-head bolts. Ensure that the hot-end is fully seated

Step 6 — Install New Hot End (3)



- Place the magnetic printhead cover back in place

If you have any questions, please don't hesitate to contact us at support@mosaicmfg.com.