

Micro Swiss Hotend for Creality CR-6 SE INSTALLATION INSTRUCTIONS

Tools needed

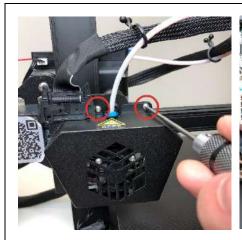
Gather the required tools before starting installation.

- Adjustable wrench
- 7mm socket wrench
- 6mm socket wrench
- 2mm Allen wrench
- 1.5mm Allen wrench (supplied)
- 7mm spanner wrench (supplied)



Step 1

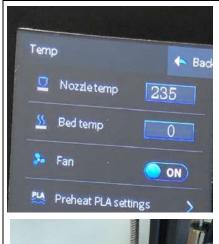
Step 2 - Remove the fan shroud and the silicone sock



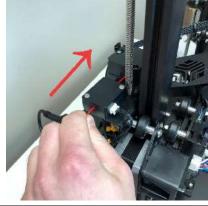


- Use the 2mm allen wrench to remove the fan shroud (save the screws to be reused latter during the installation)
- Remove the silicone sock

Step 3 – Purge the nozzle and remove the filament



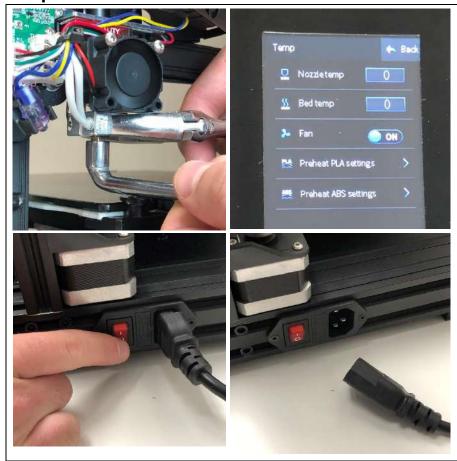






- Power up the printer
- Preheat the nozzle to 235C
 (Control > Temp > NozzleTemp > 235)
- Unlock the extruder
- Push the filament in to purge the nozzle
- Pull the filament out of extruder completely

Step 4 - Remove the nozzle



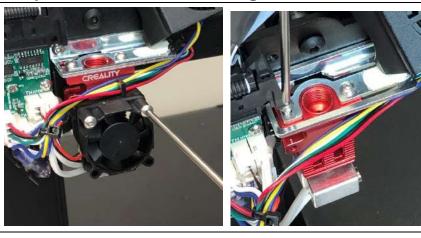
- Use the 6mm wrench to remove the stock nozzle
- Let the hotend cool down (Control > Temp > NozzleTemp > 0)
- After hotend is cooled down, turn off and unplug the machine

Step 5 – Remove the bowden tube



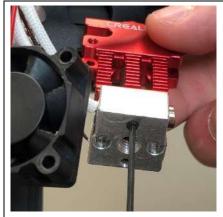
- Remove the collet clip
- Unscrew the bowden tube adapter
- Pull out the tube form the hotend
- Push down on a bowden tube collet and slide it off the tube.

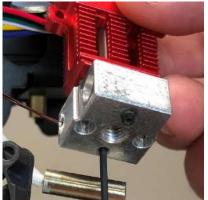
Step 6 - Remove the cooling fan and the hotend

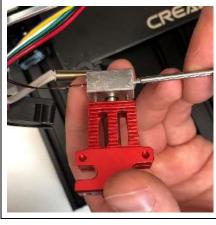


- Using 2mm allen wrench, remove the cooling fan (save the screws to be reused latter during the installation)
- Remove the hotend using the same 2mm allen wrench (save the screws to be reused latter during the installation)

Step 7 – Remove the heater cartridge and the thermistor







 With provided 1.5mm allen wrench, unscrew both setscrews that hold the heater cartridge and the thermistor

⚠ Be careful not to damage the delicate wires

 Thermistor can be stuck inside the heater block, do not push or pull on the wires. Instead use 2mm wrench to push the thermistor out

Step 8 - Assembling the hotend



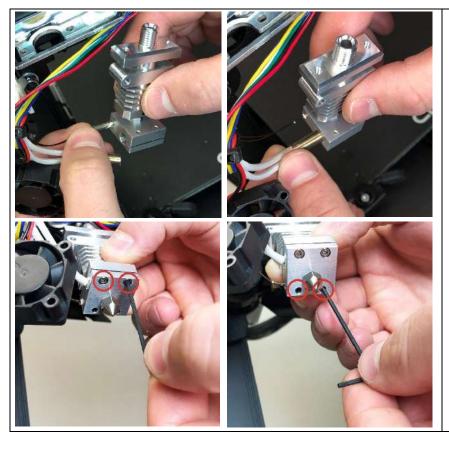






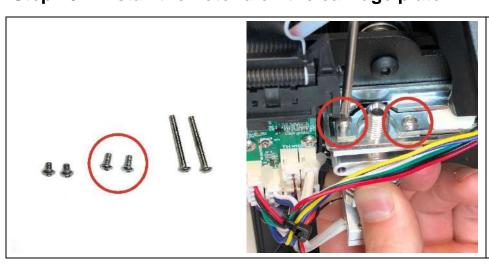
- Start by screwing in and tightening the titanium thermal break. Make sure it is flush with the heater block
- Insert the heater block assembly into the cooling block and tighten the grub screw with 1.5mm allen wrench
- Install the nozzle
 This step is not the final step to tighten
 the nozzle. Final nozzle tightening will be
 done on Step # 11 to prevent the hotend
 form leaking

Step 9 – Reinstall the heater cartridge and thermistor



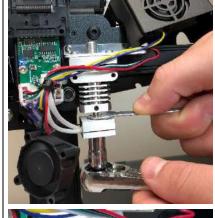
- Reinstall the heater cartridge and thermistor
- Tighten the heater cartridge using the 1.5mm Allen wrench
- Secure the thermistor. Be careful not to overtighten the screws as this can damage thermistor

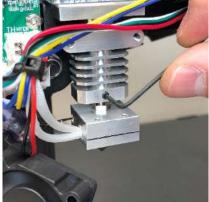
Step 10 - Install the hotend on the carriage plate

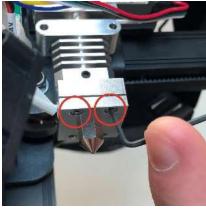


 Install the hotend on the carriage plate by reusing the two 6mm long M3 screws

Step 11 – Fully seat the nozzle (This is a critical step to avoid filament leaking)







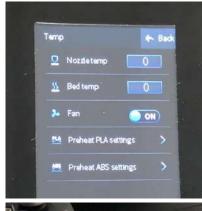


 Turn on the printer and preheat the hotend to 220 degrees Celsius

↑ The hotend is now at 220 degrees Celsius. Be extremely careful not to burn your fingers when tightening the nozzle and the grub screws

- Hold the heater block with the adjustable wrench and use the 7mm socket wrench to tighten the nozzle. If using torque wrench, set it to 30in-lb setting
- The heater cartridge might become loose after initial heat up. Make sure it is fully tightened. Be careful not to burn your fingers!
- Tighten the grub screws on the cooling block. Again, be careful not to burn your fingers!

Step 12 - Cool down the machine

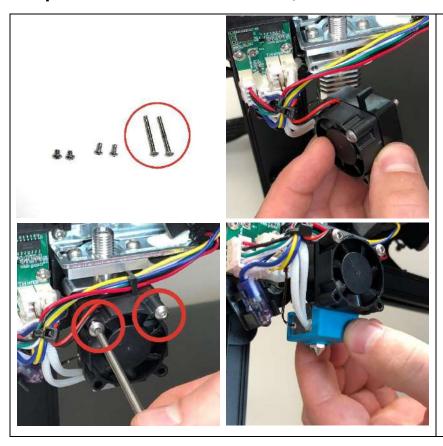




- Let the hotend cool down (Control > Temp > NozzleTemp > 0)
- After hotend is cooled down, turn off and unplug the machine

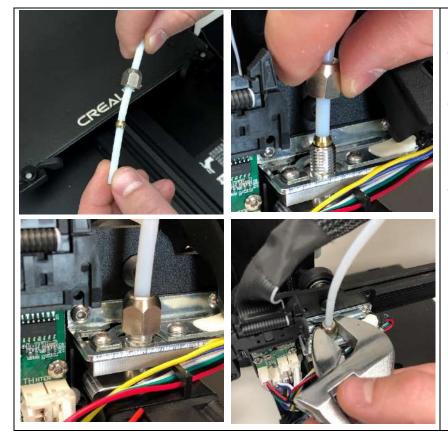


Step 13 – Install the fan shroud, fan and the silicone sock



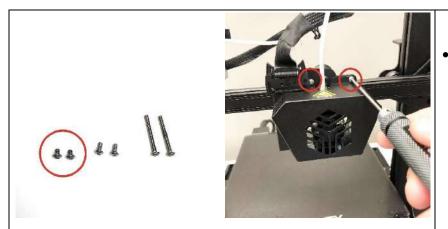
- Reuse the 25mm long M3 screws to reinstall the fan and the fan shroud
- Install the silicone sock

Step 14 – Install the bowden tube



- Slide on the nut first and then the brass sleeve
- Insert the bowden tube into cooling block Slide the tube all the way in until it bottoms out inside the cooling block and then slide the brass sleave down
- Screw in the compression nut
 Do not overtighten the but, just enough to
 prevent the tube from moving and sliding
 out

Step 15 - Install the fan shroud



Install the fan shroud by reusing two 4mm long M3 screw

Step 16 – Important slicer setting changes

- Reduce the retraction amount to 3.5mm @ 35mm/sec. (Maximum retraction amount is 4mm)
- With All Metal Hotend, the nozzle temperature might need to be increased by 5-10 °C.

