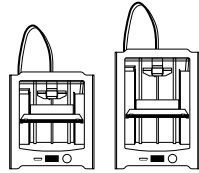


Repair manual



Replacing the nozzle

Instructions

The Ultimaker 2+ features the community upgrade, the Olsson Block. The advantage of the Olsson Block is that the nozzles are easily swappable, creating more control over the prints. Choose a smaller nozzle for more detail, or decrease print time with a larger nozzle.

A nozzle kit was already included with the Ultimaker 2+. The Maintenance Kit provides one extra copy of the 0.25, 0.4, 0.6 and the 0.8 nozzle.

Easily replace the current nozzle, or switch to a different nozzle size, by following the steps below.

Equipment/supplies needed

Tools

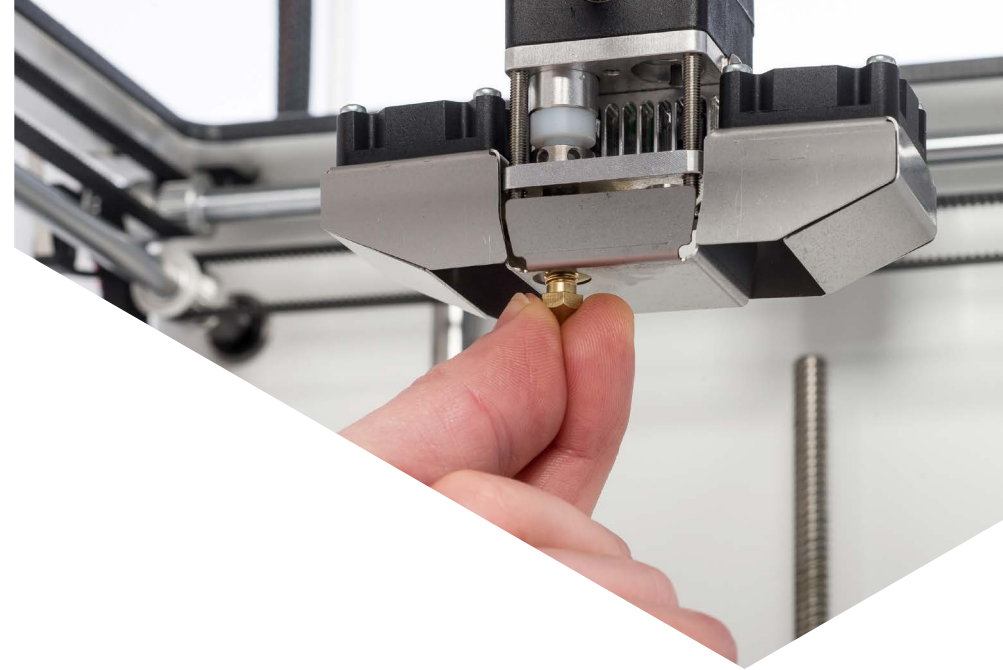
- Flat nose pliers
- Wrench (adjustable or size 7)

Parts

- 1x 2312 - Olsson nozzle 0.25 or
- 1x 2313 - Olsson nozzle 0.4 or
- 1x 2314 - Olsson nozzle 0.6 or
- 1x 2315 - Olsson nozzle 0.8

Time

- 10 minutes

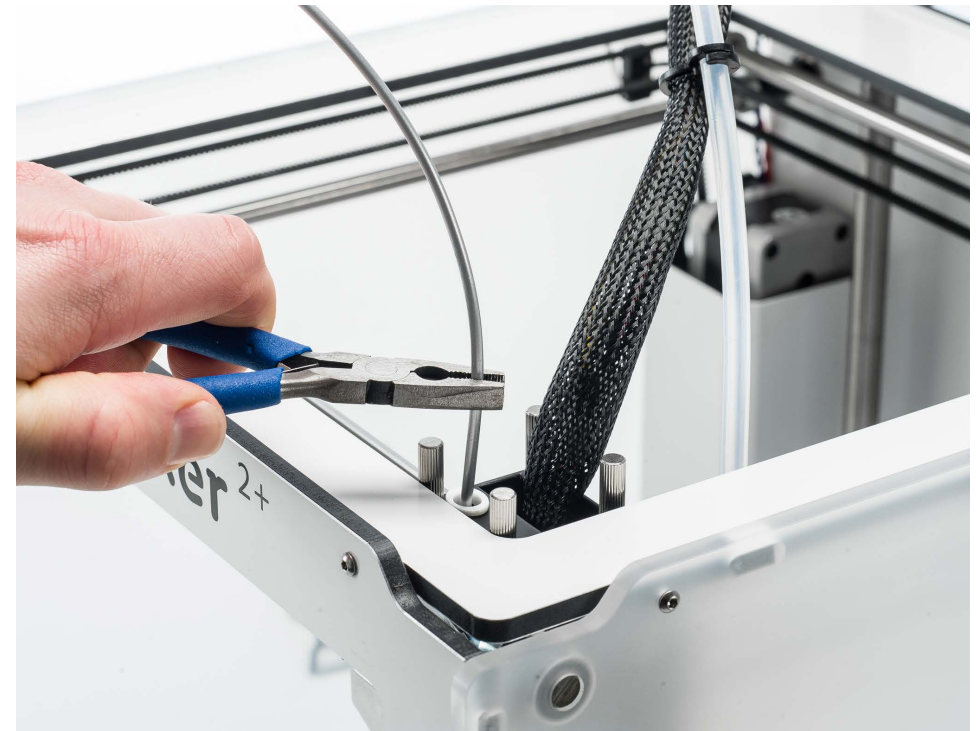


Remove the current nozzle



1. Remove the filament

- First make sure that the filament is removed from the Bowden tube.
- On the Ultimaker 2+, navigate to "Material > Change".
- Remove the filament and select "Cancel".

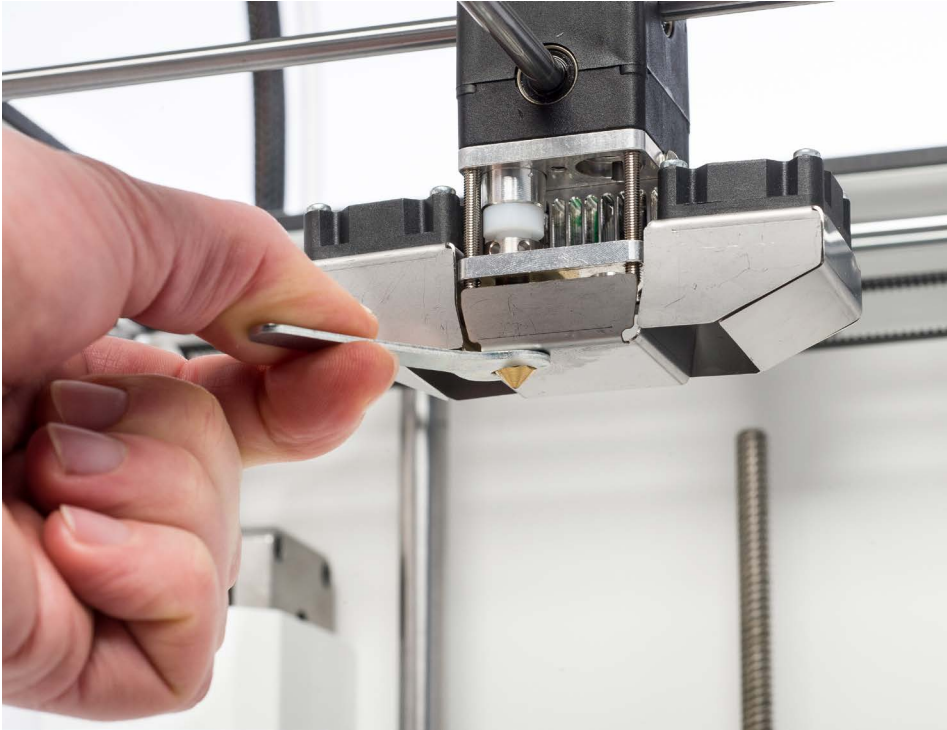


2. Perform the Atomic Method

- Clean the nozzle by performing the Atomic Method.
- This minimizes the amount of leftover plastic that is locking down the nozzle and makes removal easier.
- It also cleans out that nozzle prior to storage, ensuring that no filament residue remains in the nozzle that may affect future prints.

Tip: Full instructions on how to perform the Atomic Method can be found on Ultimaker's Resource pages.

Remove the current nozzle

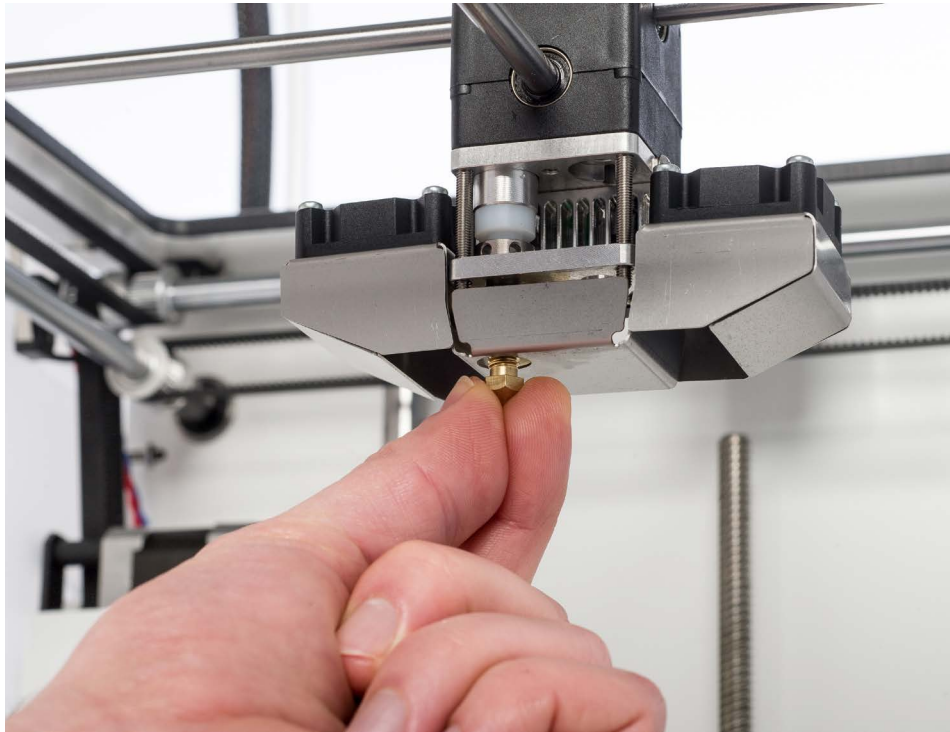


3. Unscrew the nozzle

- Leave the temperature set to the last temperature that was used for pulling out the filament during the Atomic Method.
- Use the wrench to unscrew the nozzle from the heater block.
- To unscrew it, turn the wrench counterclockwise.

Caution: Be careful, the nozzle is hot. Do not touch the nozzle with your hands; when it comes loose, catch it on a cloth or tissue.

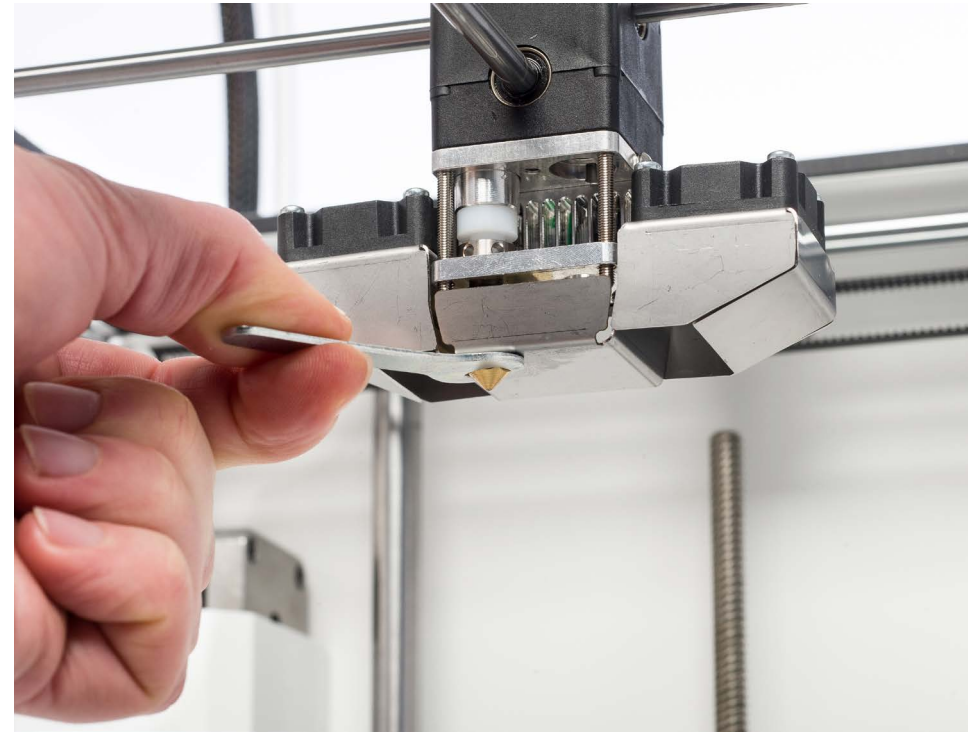
Install the new nozzle



1. Screw on the new nozzle

- Select the desired nozzle: 0.25, 0.4, 0.6 or 0.8.
- Screw it into the heater block manually until hand tight.

Caution: Be careful, the heater block is still warm.



2. Tighten the nozzle

- Use the wrench to tighten the nozzle completely.
- To tighten it, turn the wrench clockwise.

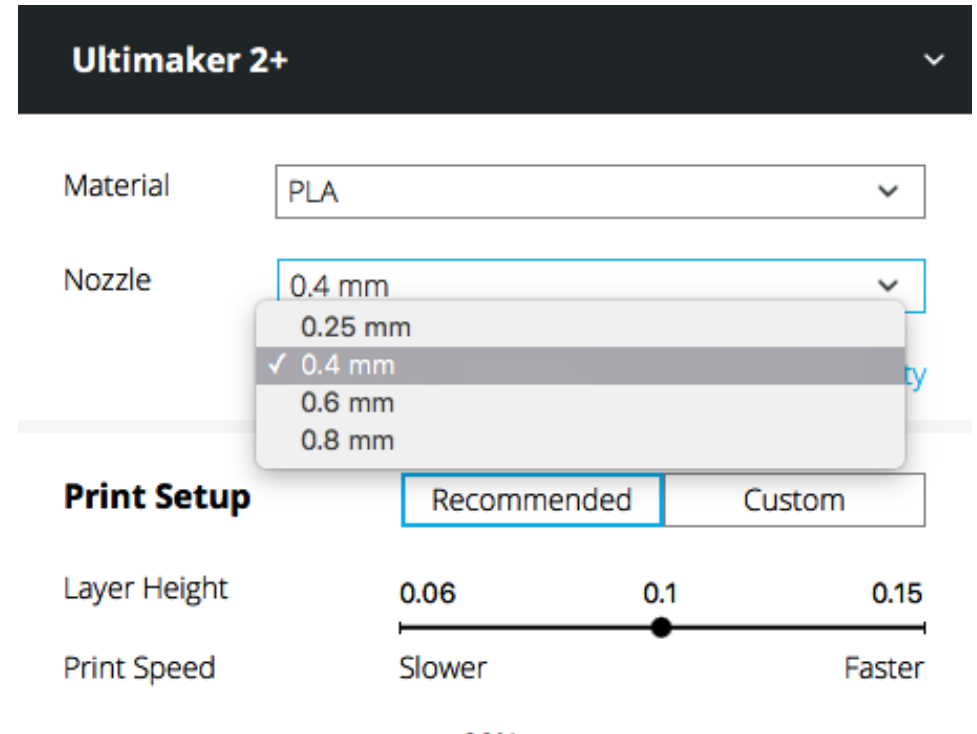
Caution: It is important that the nozzle is securely connected to the heater block. However, overtightening it can cause damage. Do not hold the wrench at the end of the handle to avoid using too much force.

Install the new nozzle



3. Level the bed

- With a different nozzle installed, the distance to the bed may be slightly different.
- On the Ultimaker 2+, navigate to "Maintenance > Build plate". Follow the leveling procedure to ensure that the build plate is correctly leveled.



4. Set up in Ultimaker Cura

- If a different nozzle size was installed, update the Cura settings to be able to print with it.
- Select the correct nozzle size from the "Nozzle" drop-down menu in Cura.