



Nozzle and Print Core Replacement

How to change out the nozzle on the Ultimakers 2+ and 3

Written By: Rebecca Marie Hirshon

Introduction

This guide demonstrates the steps to replace the nozzle on the Ultimaker 2+ or 3 as well as the steps to replace the print cores on the Ultimaker 3.

References: [Changing the material and nozzle on the Ultimaker 2+](#), [Changing materials and print cores on the Ultimaker 3](#)

Step 1 — Unload Filament



- In the Ultimaker menu on the printer
 - Select "Material"
 - Select "Change"
- Wait for the printer to unload the material

Step 2 — Remove Old Nozzle



- Leave temperature where it was to remove filament
- Remove the nozzle using a wrench
 - Turn counter clockwise to loosen

 **The nozzle must be heated up when removing or you risk breaking the nozzle**

Step 3 — Install New Nozzle



- Align the new nozzle
- Screw in the nozzle enough that it stays in
- Tighten the nozzle all the way using the wrench
 - Turn clockwise
 - Don't use too much force or you risk breaking the nozzle
- Reload the filament
 - If the filament starts leaking around the nozzle during loading, it isn't tight enough

Step 4 — Remove Print Core



- In the Ultimaker menu on the printer
 - Select "Material/Print Core"
 - Select "Print Core"
 - Select "Change"
- Remove the filament before letting the print core cool back down
- Open the print head fan bracket and remove the print core
 - Carefully squeeze the levers to slide the print core out of the print head

 **This only applies to the Ultimaker 3**

Step 5 — Install Print Core



- Insert the new print core in the print head
 - ⚠ Do not touch the chip on the back side of the print core
 - Close the print head fan bracket
 - Load the filament into the print core
- ⚠ This only applies to the Ultimaker 3