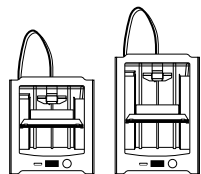


## Repair manual

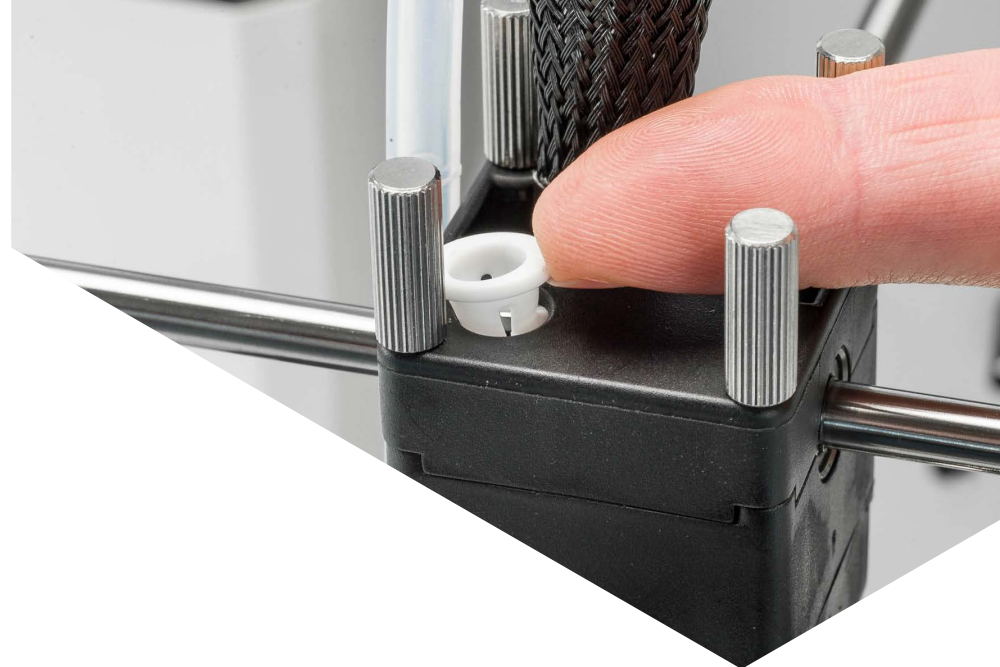


# Replacing the tube coupling collet

### Instructions

The tube coupling collets hold the Bowden tube in place in the print head and feeder. The tube coupling collet has small metal tabs on the inside, which grip the Bowden tube.

Over time, these tabs can wear out or bend outwards. When this happens, the collet's grip on the Bowden tube becomes loose, which can negatively impact print quality. In this case it needs to be replaced. The following steps describe how to correctly replace the tube coupling collet.



### Equipment/supplies needed

#### Tools

- None

#### Parts

- 1 or 2x 1069 -Tube coupling collet

#### Time

- 5 minutes

## Disassembly



### 1. Remove the filament

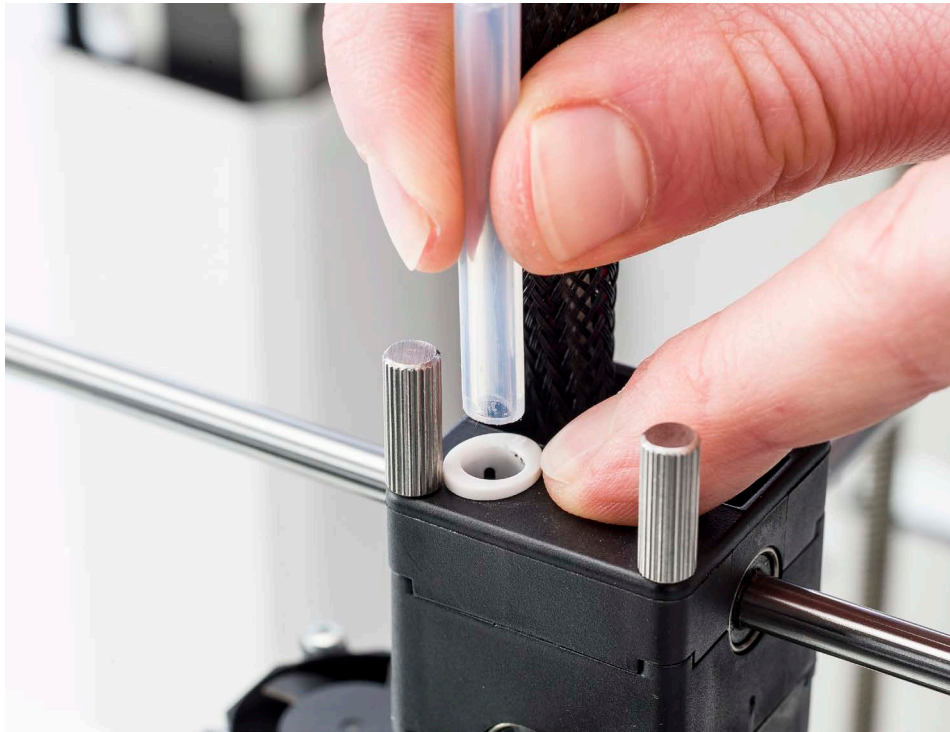
- On the Ultimaker 2+, go to "Material > Change"
- Remove the filament from the feeder and turn off the printer.



### 2. Remove the clamp clip

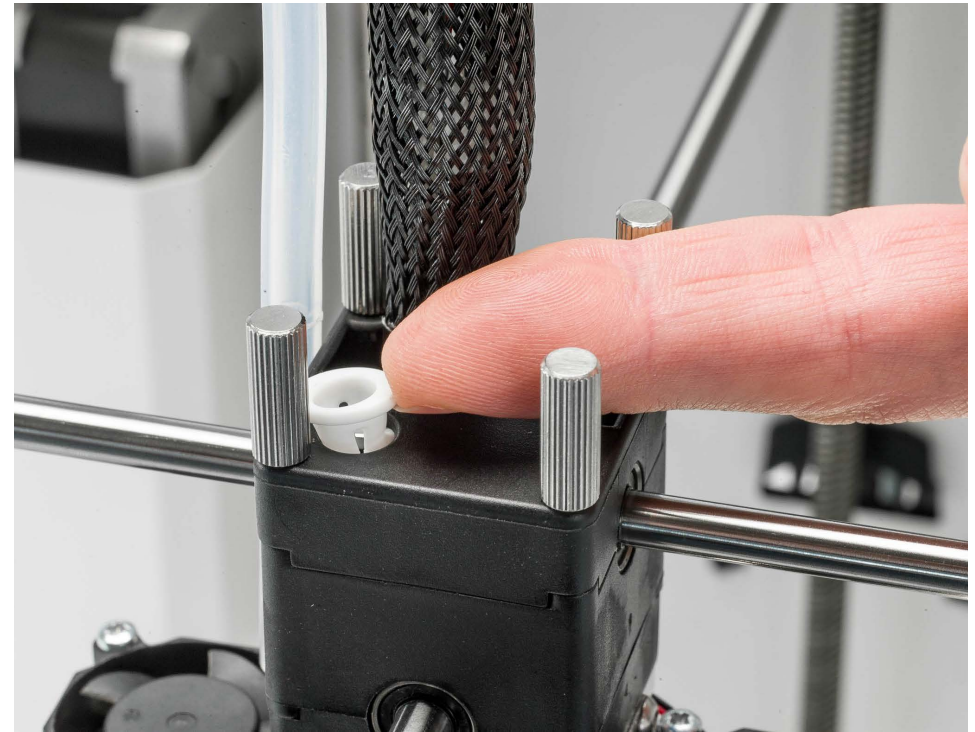
- Place the print head in the front-right corner.
- Use your fingernail to remove the old clamp clip from the tube coupling collet.

## Disassembly



### 3. Remove the Bowden tube

- Press down on the white tube coupling collet.
- At the same time, pull the Bowden tube upwards, out of the print head or feeder.



### 4. Remove the old tube coupling collet

- Place your nails under the edge of the tube coupling collet.
- Pull the tube coupling out of the print head or feeder.



## Reassembly



### 1. Insert the new tube coupling collet

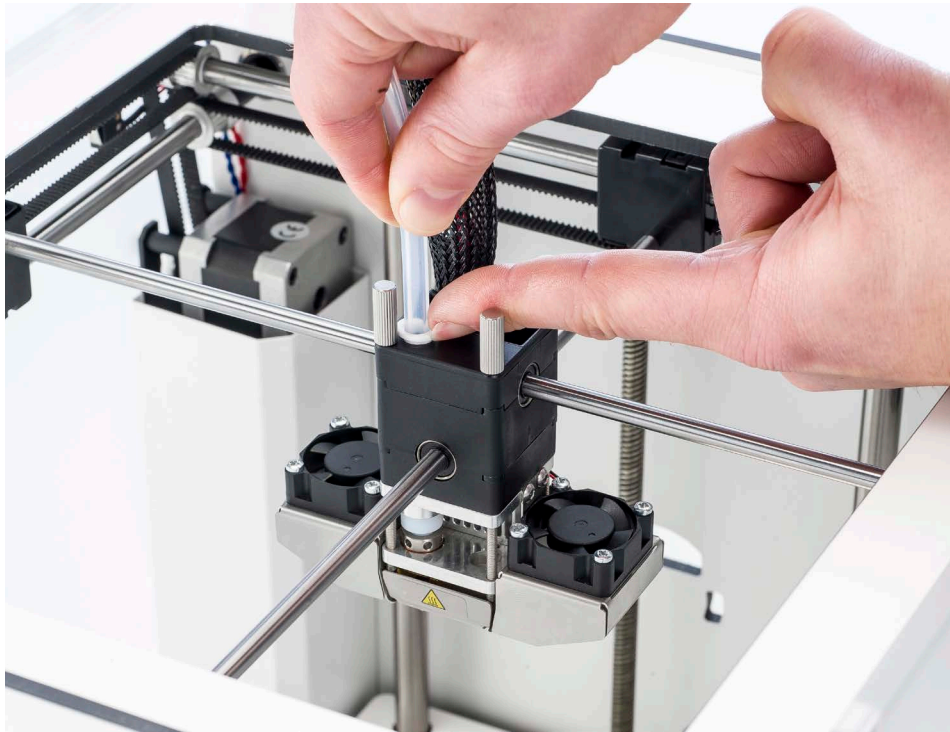
- Push the four legs of the new tube coupling collet slightly inwards.
- Insert the tube coupling collet in the hole in the print head or feeder.



### 2. Insert the Bowden tube

- Press down on the tube coupling collet in the print head or feeder.
- Push the Bowden tube all the way in.

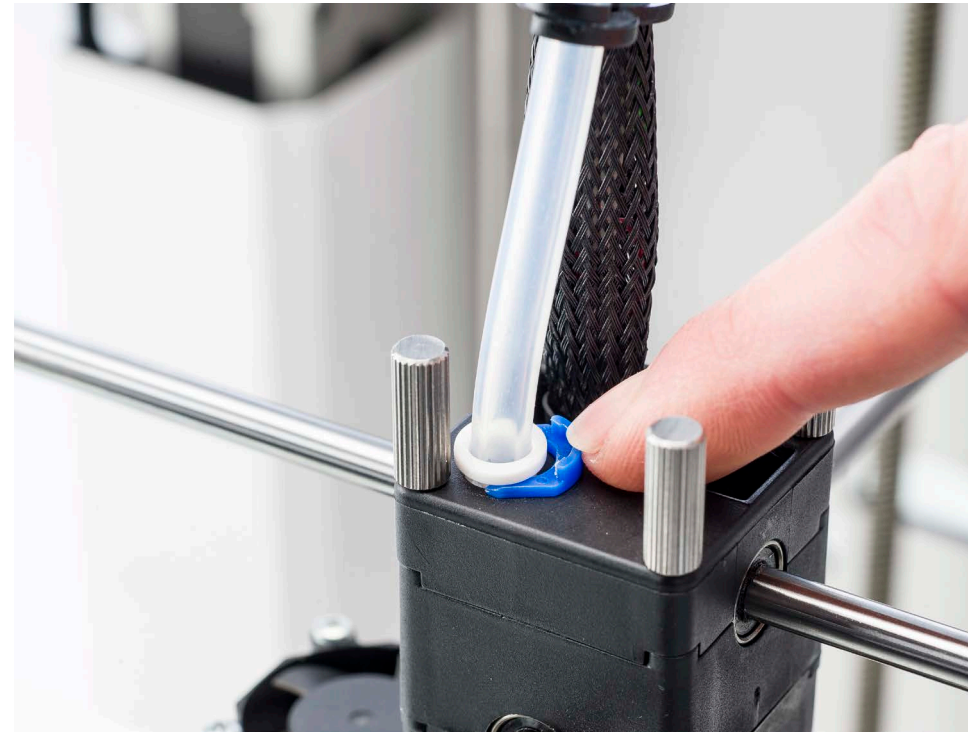
## Reassembly



### 3. Ensure the Bowden tube is correctly inserted

- Let go of the tube coupling collet and gently pull the Bowden tube, along with the tube coupling collet, approximately 2 mm upwards.
- Hold the tube coupling collet up with your fingernail.
- While holding the tube coupling collet up, push the Bowden tube down again.

**Note:** This step ensures that the end of the Bowden tube connects correctly to the TFM coupler. This prevents room between the parts as well as play on the Bowden tube.



### 4. Secure with the clamp clip

- Place the clamp clip around the tube coupling collet to lock the Bowden tube in place.