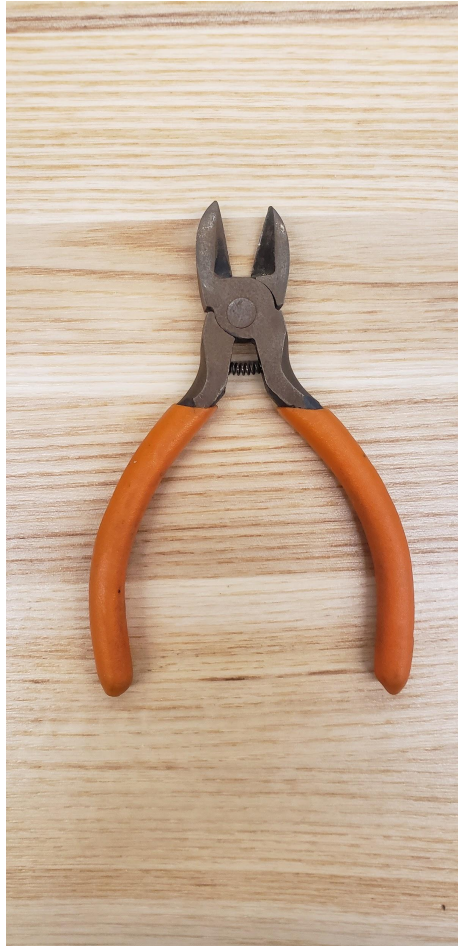# Changing filament on the Ender-3

Tools needed

- Side cutters/flush cuts
- Tweezers

1. Heat up the hot end

Using the control panel, select the control option.
Scroll down to and select temperature on the menu.
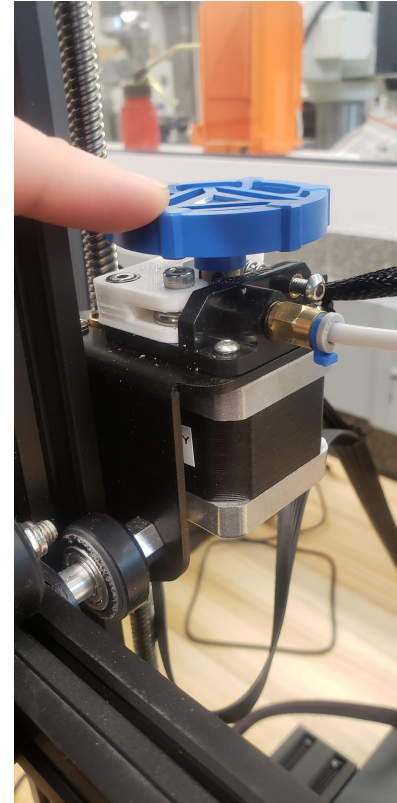Select nozzle temperature and turn it up to about
200 degrees Celsius.

2. Remove any debris from the nozzle

While the nozzle is heating, CAREFULLY use the tweezers to remove any excess and burnt filament from the nozzle.
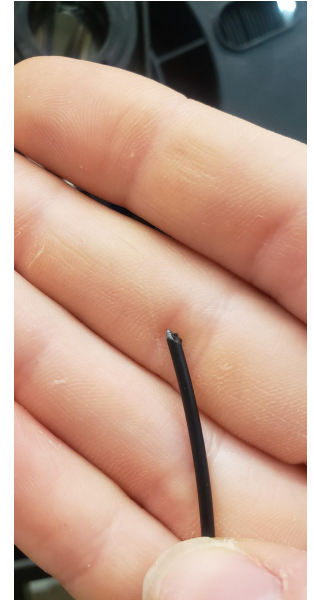
3. Back the filament out

Using the blue knob on top of the extruder the filament can be removed. By turning the knob clockwise back the filament out while also keeping the spool of filament taut in order to prevent snags.
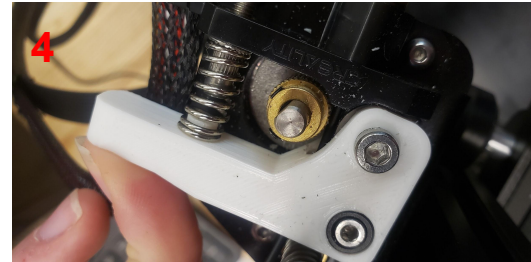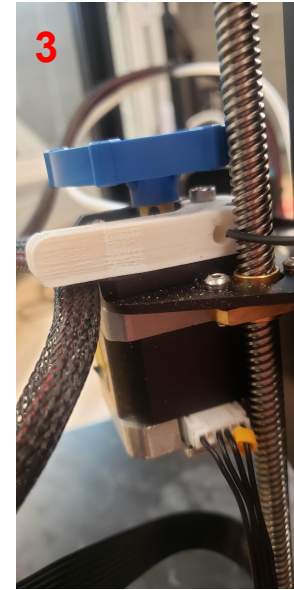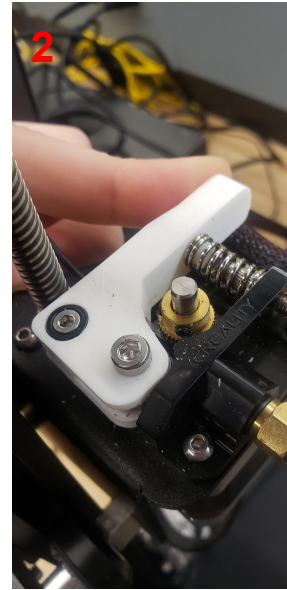
4. Remove old filament and prep new spool to be loaded

1. Remove the old spool of filament and replace it with a new on. *ALWAYS BE SURE TO CHECK MATERIAL AND FILAMENT DIAMETER*
2. Find the end of the filament on the new spool, using a set of side cutters cut the end of the filament at about a 45 degree angle

5. Load the new filament

1. Remove the blue knob from the top of the extruder
2. Press the extruder arm to compress the spring and release tension on the extruder wheel
3. Pass the newly cut filament through the hole on the side of the extruder arm
4. Pass the filament past the extruder wheel into the hole leading to the bowden tube *You may have to bend and straiten the filament to aid in this process
5. Release pressure on the extruder arm and replace the knob
6. Turn the knob counterclockwise to load the filament
7. Continue doing this until the filament reaches the hot end and starts extruding
8. Manually extrude some filament

6. You did it!

At this point I like to run a quick, small test print to make sure everything is working properly but thats it otherwise!