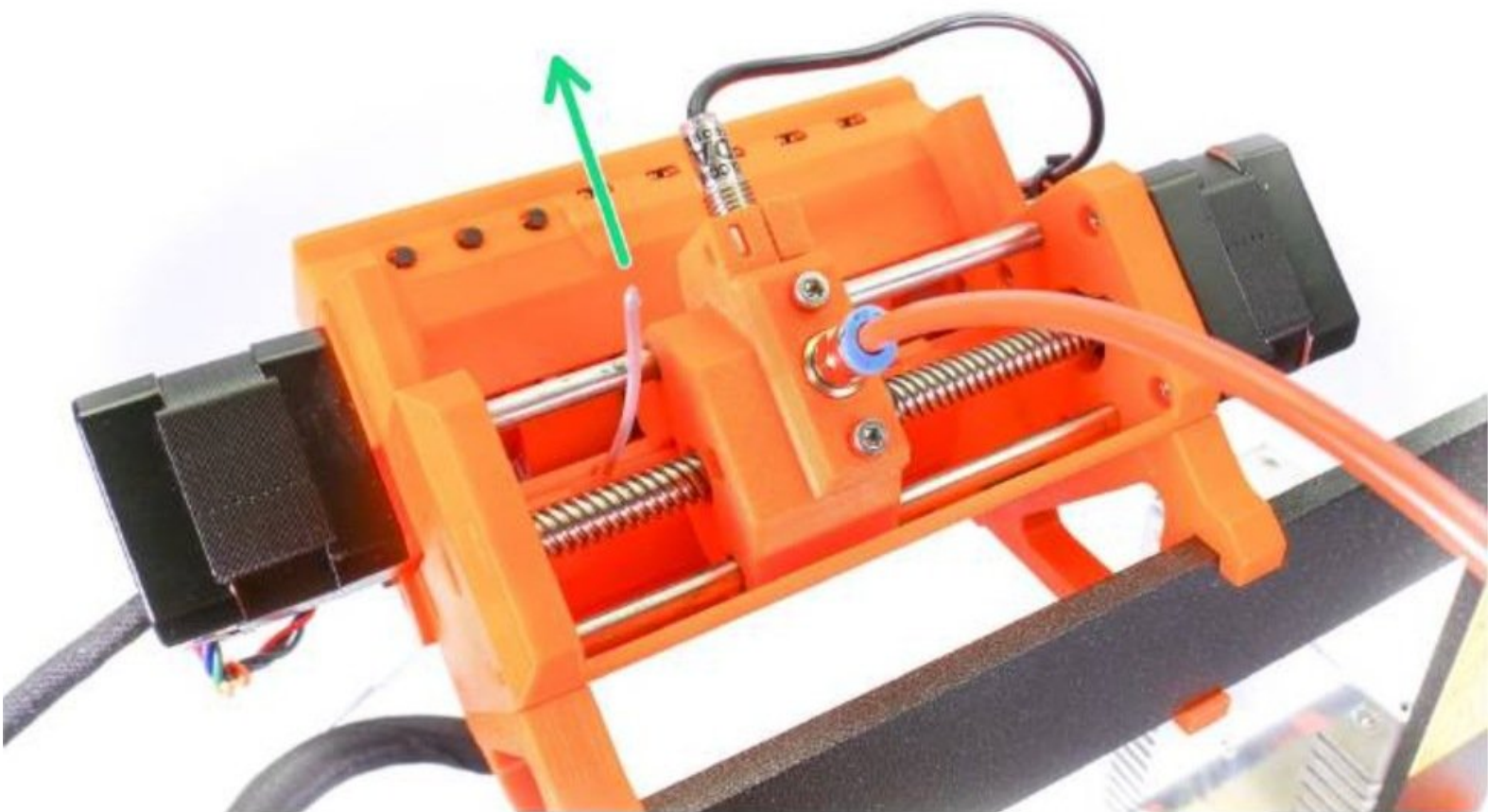




Prusa i3 MK3S: Changing Materials

This guide will explain how to change materials on the Prusa i3 MK3S + MMU2S

Written By: Robert Nicholas Cozzette



Introduction

Sometimes you will have to change or replace filaments on the Prusa i3 MK3S + MMU2S, this is a guide to help walk you through it. It will cover ejecting filament, removing filament and replacing filament.

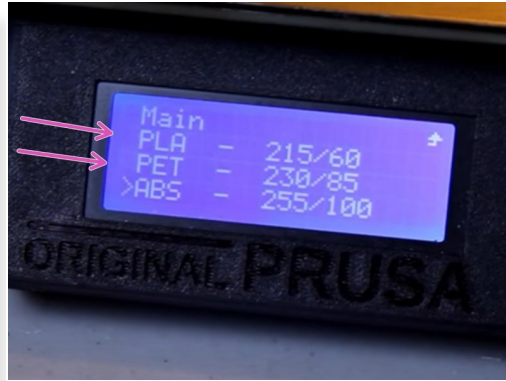
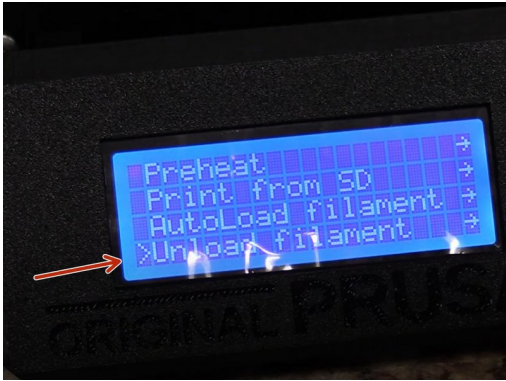
Images by: TW



TOOLS:

- [Side Cutter](#) (1)
-

Step 1 — Unloading Filament from the Extruder



i If the filament is not loaded in the extruder, skip to the next step

- On the prusa interface select the unload filament option

- *Select* the material you are unloading

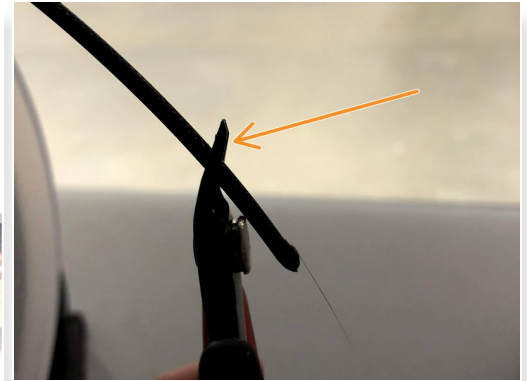
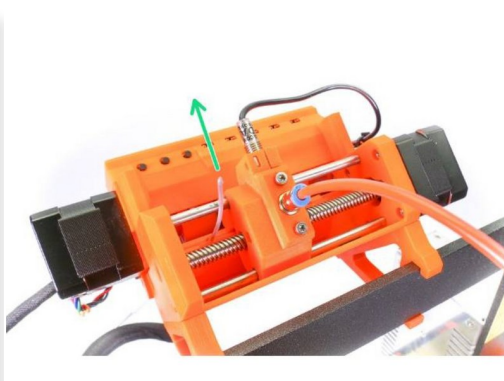
i Generally is PLA or PTEG

- Wait for the extruder to heat up

⚠ The extruder and print bed will get hot during this process

- Press the knob and wait for the filament to finish unloading

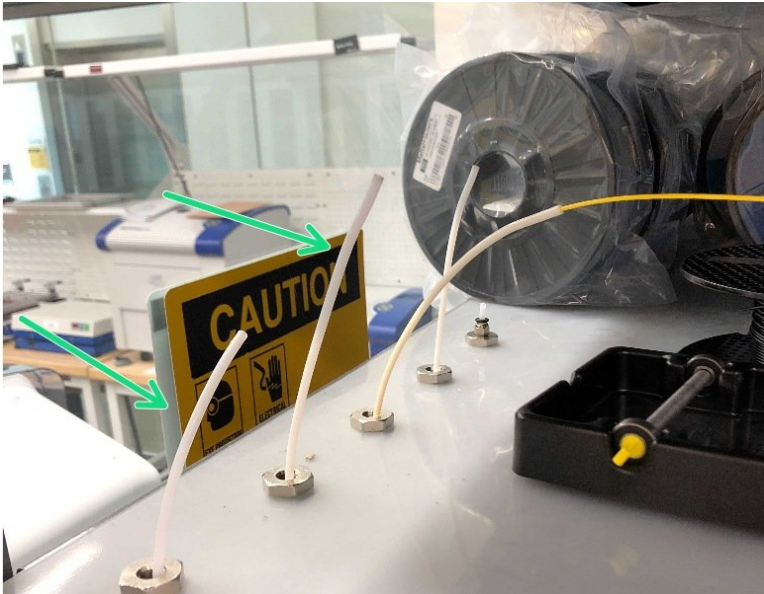
Step 2 — Ejecting Filament



i Ejecting filament removes it from the MMU, if there is no filament loaded, skip to the next step

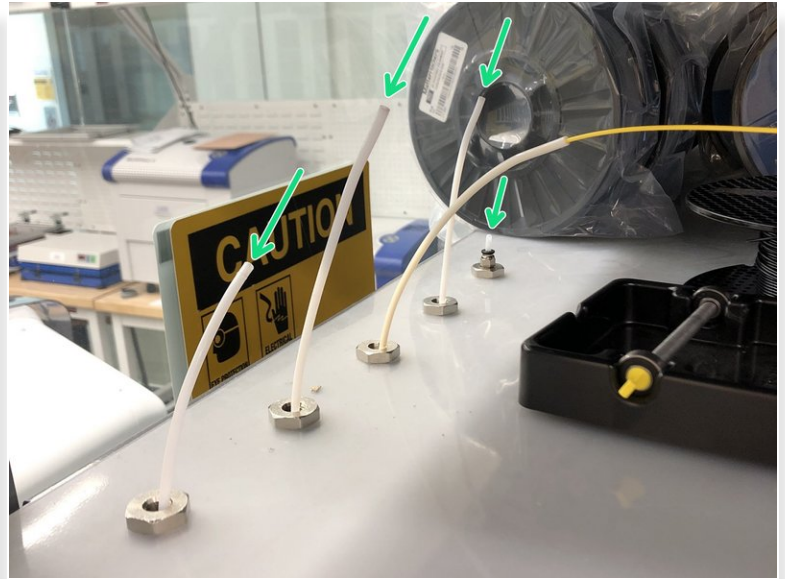
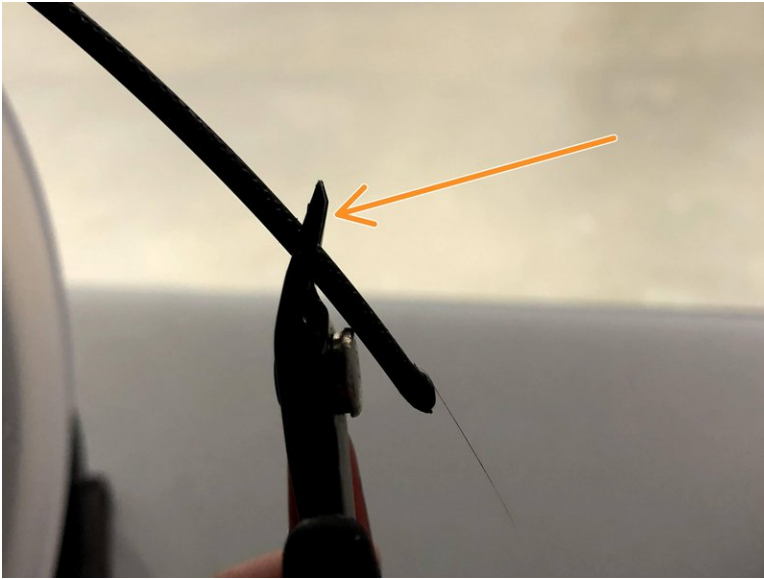
- *Select "eject filament"*
 - *Select the filament number you wish to remove*
 - The MMU will push the filament forward
 - *Cut the tip at a 45 degree angle*
- i** There is typically a bulbous end which can get stuck in the PTFE tube

Step 3 — Removing filament from the MMU



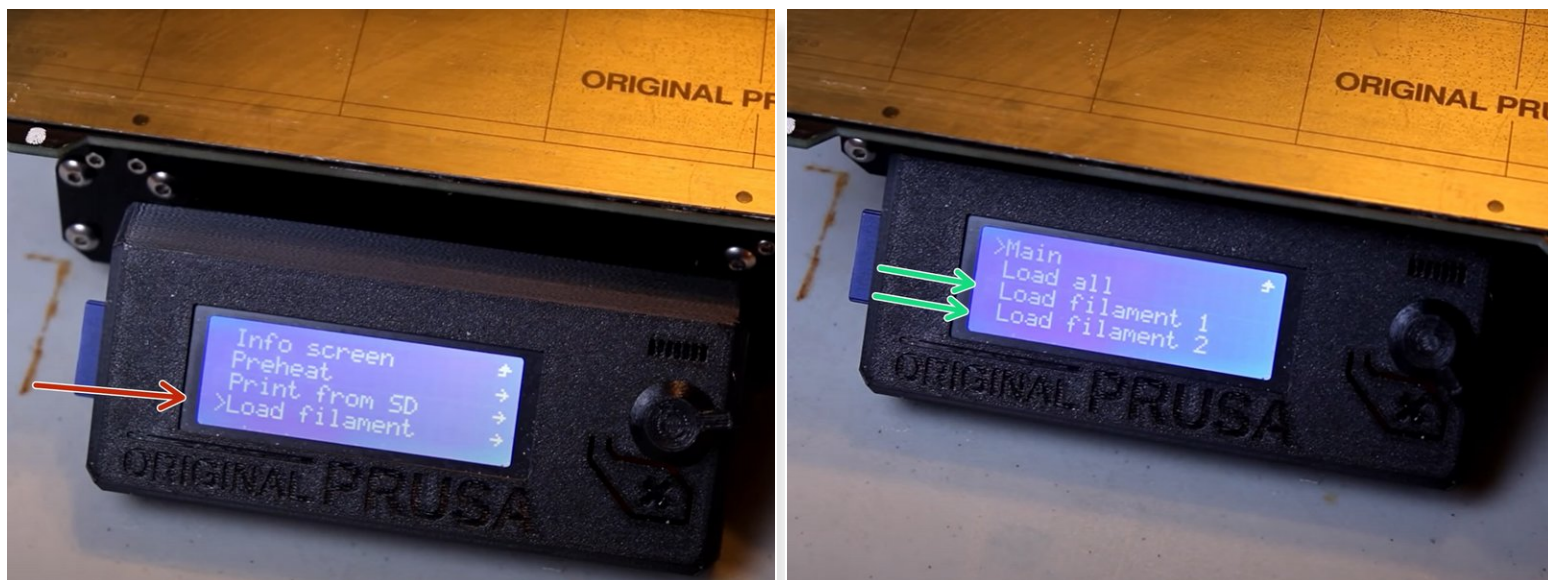
- *Pull* the filament from the PTFE tubes on the 8 ft shelf above the machine
- *Wind* the filament back onto the spool
- *Thread* the end through the two holes on the spool
- Store the filament spool in a cool dry place preferably in a bag with silica packets

Step 4 — Preparing the new filament



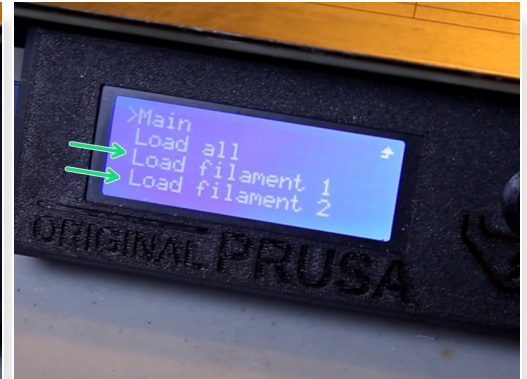
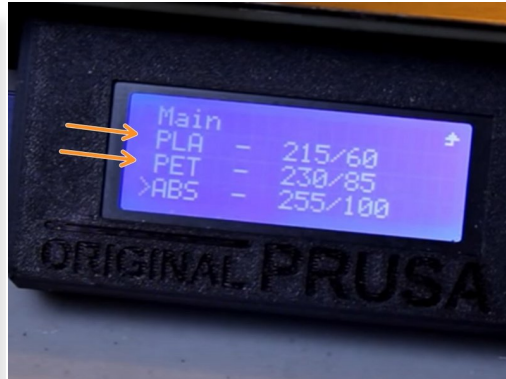
- *Cut* the filament at a 45 degree angle
- *Feed* the filament through one of the PTFE tubes above the printer

Step 5 — Loading New Material



- *Select "load filament"*
- *Select the filament number you are loading*
 - ① The MMU will have a blinking light above the filament number selected
- Slowly push the filament through the PTFE tube until you can feel the MMU's drive gears grab the filament

Step 6 — Loading to Nozzle



- Select "Load to Nozzle"
- Select the material type
 - ① Typically PLA or PETG
- Wait for the machine to finish preheating
- Select the corresponding filament number you wish to load
- The machine will then load the filament to the nozzle