FS Plotter
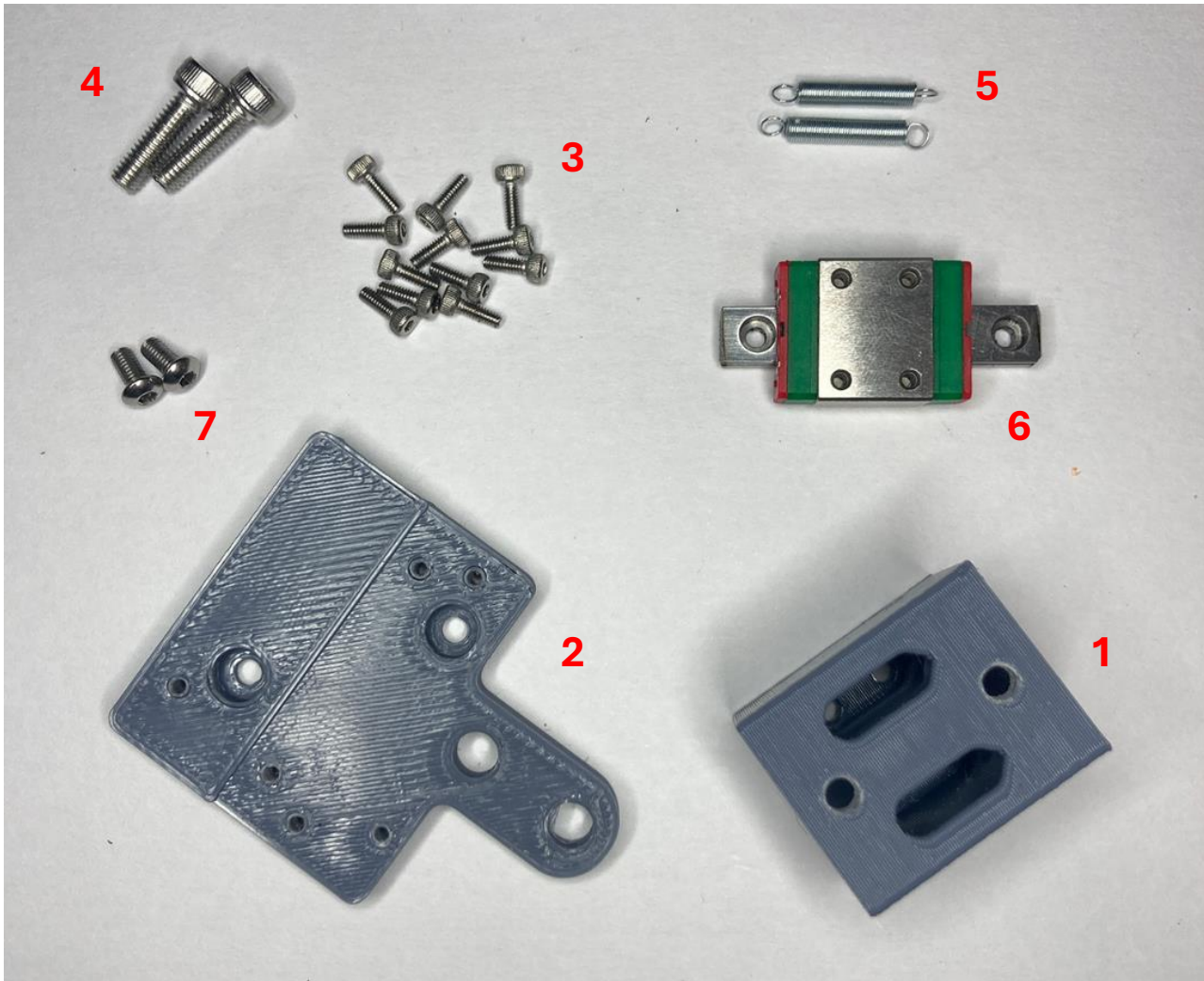
Assembly / Installation Guide

By: Geoffrey Gao
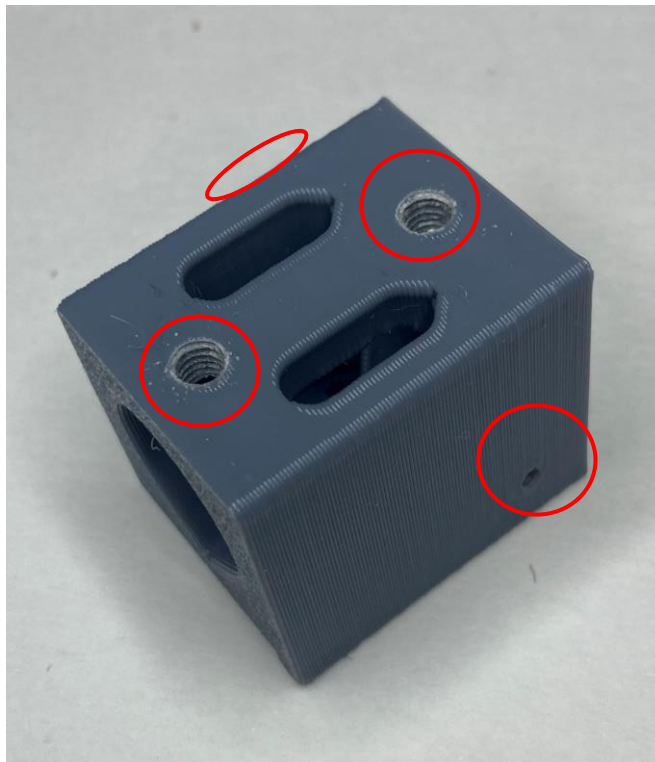02/2024

Bill of Materials
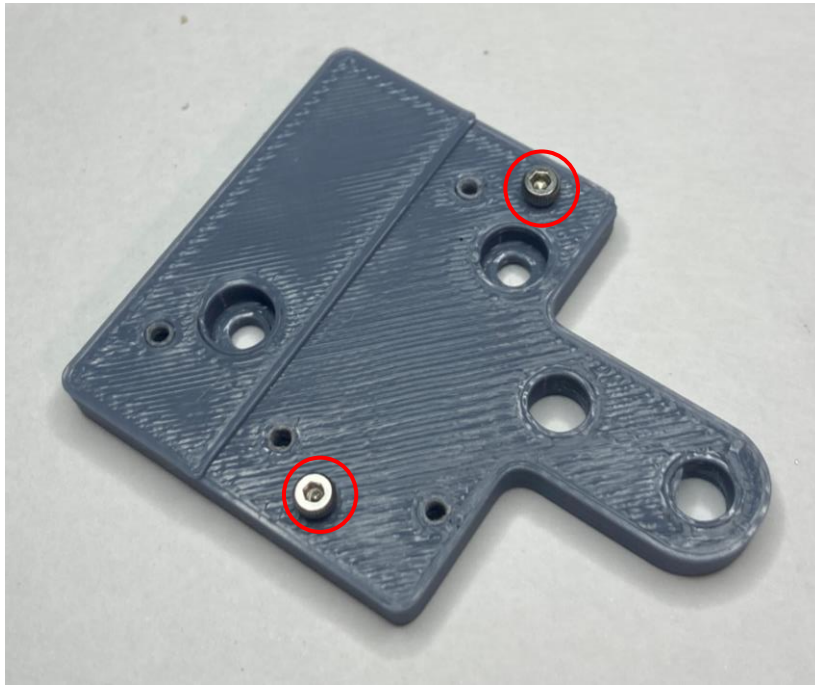

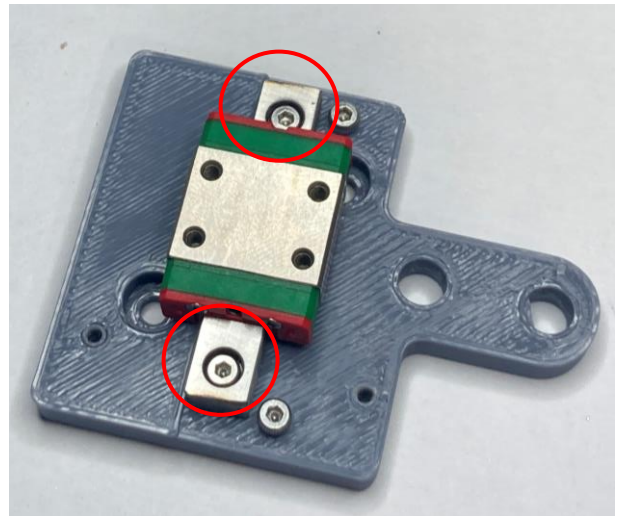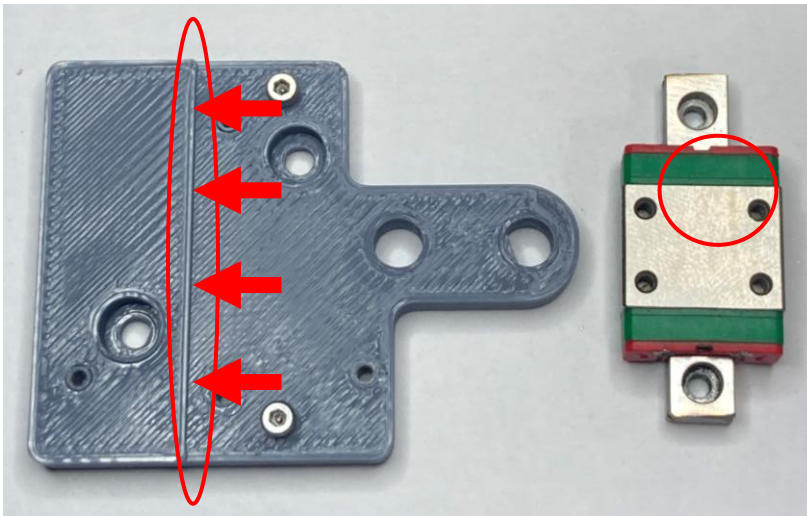| #	Name	QTY
1	Pen Holder	1
2	Carriage Mount	1
3	Socket Head Cap Screw (M2 x 6mm)	10
4	Socket Head Cap Screw (M4 x 20mm)	2
5	Extension Spring (0.3 x 3mm x 20mm)	2
6	40mm Linear Rail	1
7	Ender 3 Fan Mount Screw	2
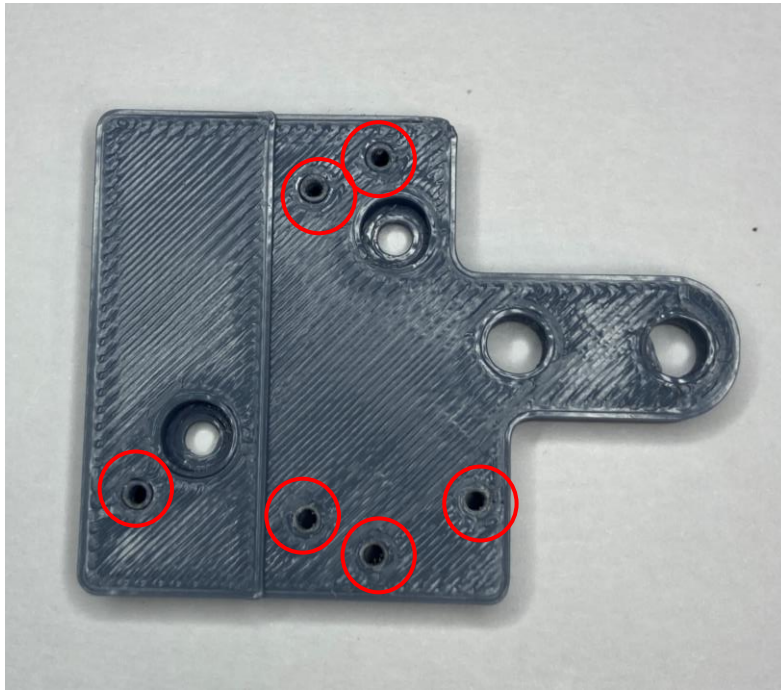
1. Tap the noted holes with an M2 Tap

2. Tap the noted holes with an M4 and M2 Tap
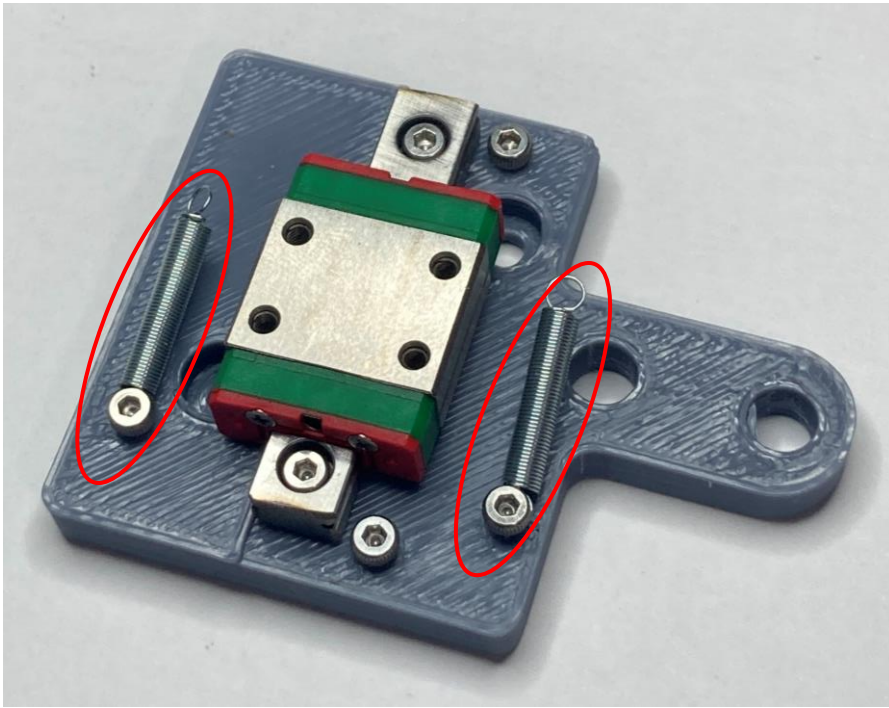*2 Holes M4 Tap on the front, 2 Holes M2 Tap on the sides*
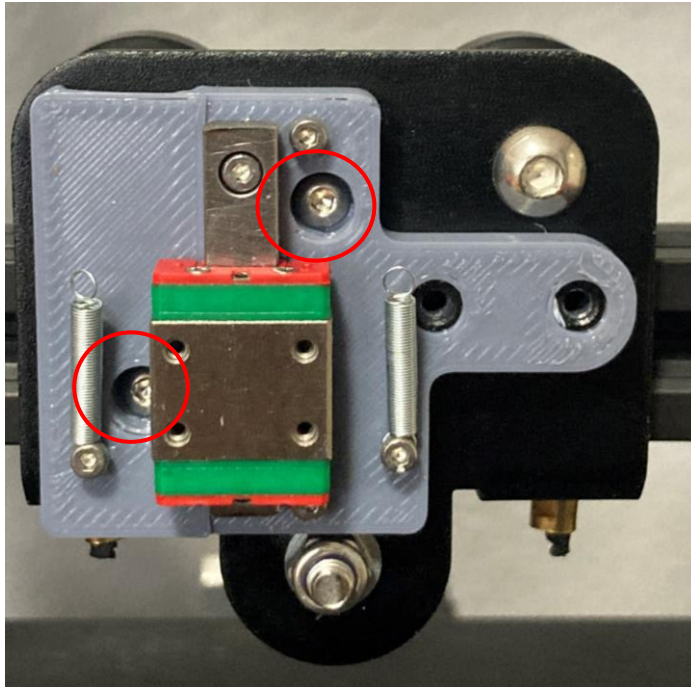
3. Install 2 M2x6mm Screws

4. Install the Linear Rail using 2 M2x6mm Screws
Push the rail against the shown edge to align it when installing. Be careful not to allow the carriage to come off the rail!
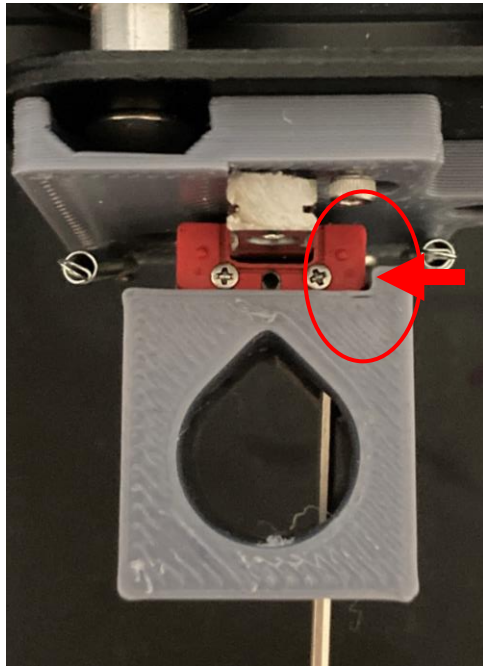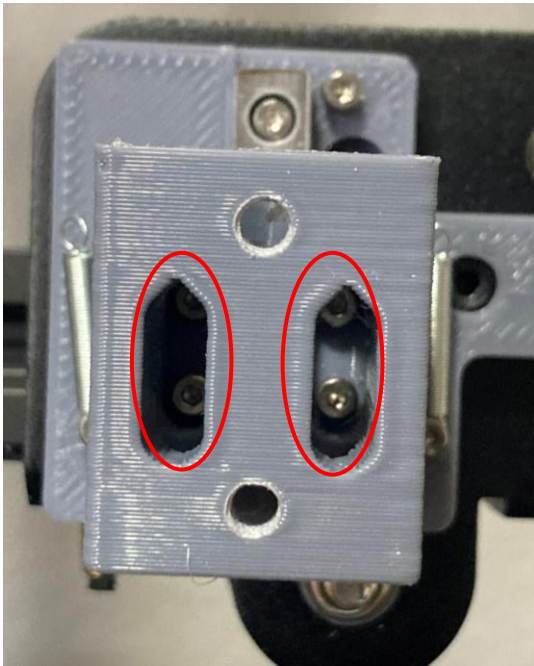
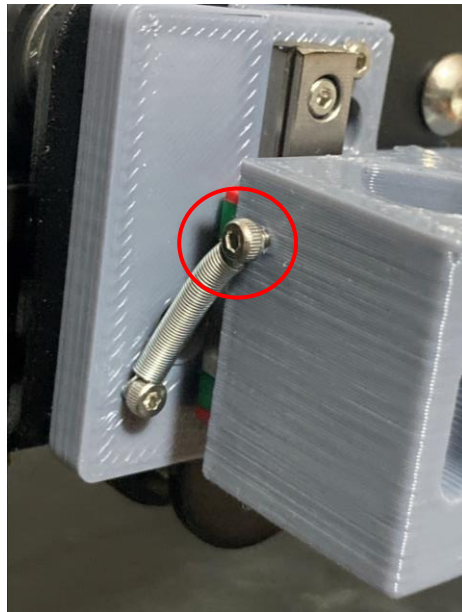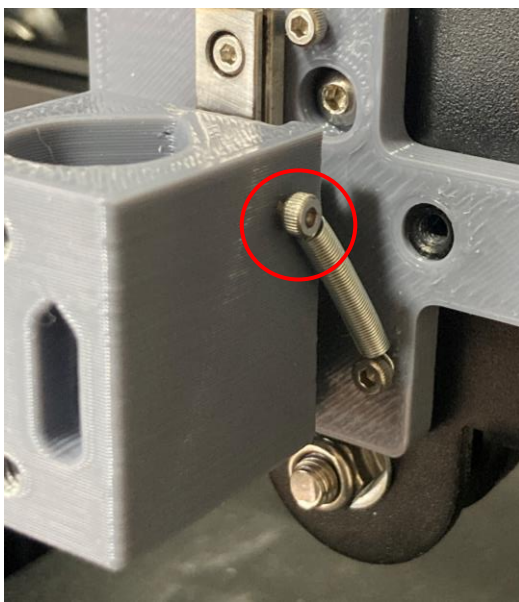## 5. Install 2 Springs with 2 M2x6mm Screws

6. Mount the Carriage Mount to the Ender 3 Carriage
The 2 holes that were used to mount the hotend are used as alignment features.
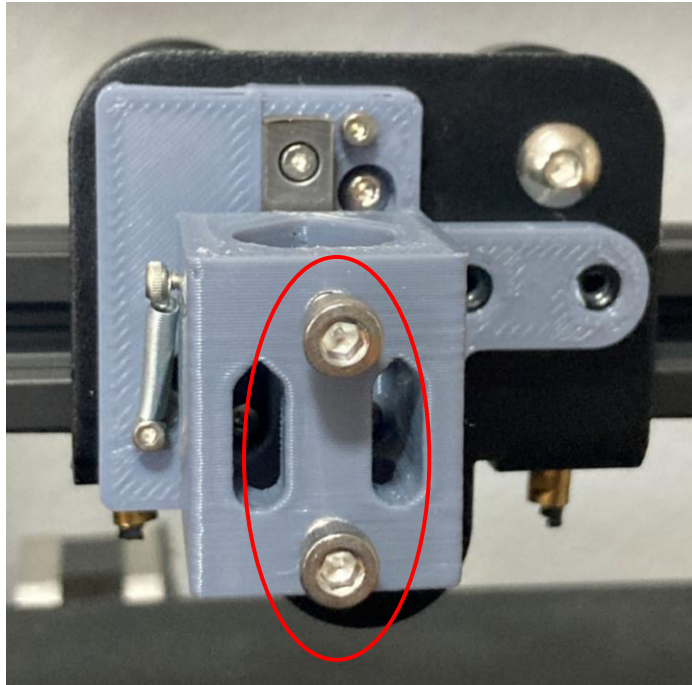*Use the screws that were originally from the fan mount to install*

7. Install the Pen Holder to the Linear Carriage with 4 M2x6mm Screws

Use the alignment feature on the pen holder to push against the carriage to ensure alignment. Screws are a bit difficult to install!

8. Attach the springs to the Pen Holder with 2 M2x6mm Screws

9. Install the 2 M4 Screws on the front of the Pen Holder
These screws will be used to hold the pen in place

Installation is complete. For instructions how to use, please see the separate instructions