



## Anycubic Chiron Palette 2 PTFE Tube Fixation Bracket

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### Summary

Got recently a Palette 2 from Mosaic Mfg and the instructions told me to fix the PTFE tube close or next to the...

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Got recently a Palette 2 from Mosaic Mfg and the instructions told me to fix the PTFE tube close or next to the extruder... well, no chance on the Anycubic Chiron! Removing anything was not an option and keeping the filament run-out sensor was absolutely a must, so this design evolved to V3 (currently in use) and V4 (offering more stability - hopefully...).

See "Post-Processing" and pictures for fixation.

Version 3 is finally stable enough to manage the loads generated by the extruder and countered by the Palette 2 internal feeding mechanism, whereby the "system" is doing some strange noise...

Next thing coming up is a stabilization of the filament run-out sensor due to strange bending and movement during a long print.

V3: just a rectangular variant of the bracket, featuring the original rubber insert of the Palette 2 mounting bracket

V4: slightly bigger variant offering a stabilization on the bottom - increased to overcome the underneath wiring of the filament run-out sensor (not tested yet)

### **Update 31/05/2019:**

added the FRS fix bracket for improved stability - it's removable and just mechanically fixed between the V3 bracket and the extruder housing to have the possibility to remove filament once a print has finished. Added some (maybe too much...) pictures to show assembly. More down below :)

## **Print Settings**

### **Printer Brand:**

Monoprice

### **Printer:**

Mini Delta

### **Rafts:**

Doesn't Matter

### **Supports:**

No

### **Resolution:**

0,15mm layer height, 0,4mm nozzle

### **Infill:**

50% for stabilisation

**Filament:** Nothing special... PLA blue

### **Notes:**

Printed on a MP Delta Mini to have the parts as fast as possible, since the Chiron was doing some calibration prints with the Palette 2 :P

Use >50% for infill to get the necessary stability of the part, since pulling force of the extruder is quite high and movement of the Palette 2 PTFE tube cannot be fully avoided

I've used PLA, but any material will work

### **Printing the FRS Fix:**

Nothing special - current version running on 20% infill only, to see whether it can stand the load (seems my Dreamer did a quite bad job on the quality... also loosing letters during print... Motherboard maybe...)

## Post-Printing

### Mounting

Assemble the rubber insert and place the place some M3 nuts in the corresponding holes on the long side (marked with "V3" or "V4").

Place bracket in front of the filament run-out sensor and push 2x M3x25 screws through the holes in the sensor (thanks Anycubic!) from the back side and screw them into the M3 nuts.

Finally, use an Allen key (2,5mm) with a rounded head to fully tighten the screws and you're done!

### Mounting the FRS

As shown on the pictures:

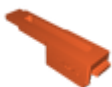
attach it on extruder side first and then glide the bracket downwards - maybe you'll need to move the FRS a bit down to have enough space to position it correctly.

Category: 3D Printer Accessories

## Model files



**schraubadapter\_v4.stl**



**frs\_fix.stl**



**schraubadapter\_v3.stl**

[Find source .stl files on Thingiverse.com](#)

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