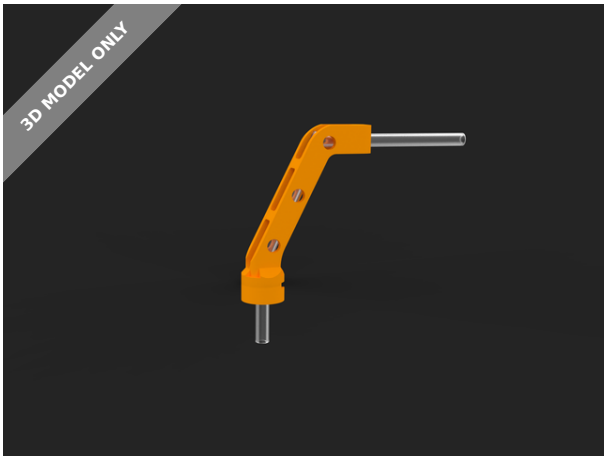
Printables by JOSEF PRUSA



Bambu X1 PTFE Extruder Bracket AMS Error Fix

OurAngryBadger

VIEW IN BROWSER

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Summary

Fixing the AMS "failed to pull out the filament" and "failed to feed the filament into the toolhead" errors on Bambu X1.

3D Printers > 3D Printers - Upgrades

Tags: extruder bracket modification carbon fix x1 bambu bambulabx1 bambulab bambulabx1carbonams bambulabx1carbon bambulabx1ams ams x1c

Do you have the following printer errors when printing with the AMS?
Failed to pull out the filament from the extruder
Failed to feed the filament into the toolhead

Well, give this little mod a try!

In my case, I found the most common cause of these errors to be the PTFE tube having too much of a curve as it enters the extruder. This little bracket easily clips onto the cable guide on top of the extruder body and keeps it straight.

NOTE: This is a remix of Bambu Lab's own design, they are providing the (unmodified) STL file of this to some users who

contact support about AMS problems. In this remix, I made the following changes:

1. Added hole for the PTFE tube instead of open-bottom, this way the tube does not slide out as the print head moves.
2. Modified design for easier printing with no supports needed.
3. Shaved 2mm off the top of the model so it can never bang against the glass lid of the printer like Bambu's design did.
4. Orientated the model properly for printing.
5. Added windows on the side for a more mechanical look and visibility of PTFE tube.

Will it fix your problems?

Maybe, maybe not. I think the AMS system on this printer needs a lot of refinement, but since I have created this and installed it, I have noticed a lot less error messages. It's only 1.3 grams of filament and 5 minutes to print, so give it a shot.

Printing settings:

- Print in PETG, ABS, ASA, Poly, or Nylon. PLA will not survive.
- Print at 0.16mm layer height with 0.4mm nozzle.
- Print with a large brim around the base - I recommend 15mm brim.
- No supports are needed with most materials.

How to install:

1. Straighten PTFE tube (bend) by hand to be very straight (according to Bambu).
2. Slide PTFE tube through hole in bracket.
3. Insert PTFE tube into extruder to lock in place.
4. Slide the straightener down the PTFE tube and onto the coupler inside the extruder.
5. Press it down onto the coupler inside the extruder to lock into place.
6. If properly installed it should swivel around, and look like the photos.

Leave a rating and some feedback!

Let me know if this helps at all, and also let me know if you can think of any improvements I could make to the design.

Check out some of my other Bambu X1 accessories:

Bambu X1 Exhaust Fan Muffler / Silencer

Bambu AMS Feeder Protector / Adapter

This remix is based on

Bambu X1 PTFE Straightener Bracket AMS Error Fix
by OurAngryBadger

Bambu Lab PTFE Bracket
by Mol

Model files

ptfe-bracket.stl

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