



Ender-3 V3 Top Filament Sensor Bracket



EBD Design Studio

[VIEW IN BROWSER](#)

updated 18. 8. 2024 | published 18. 8. 2024

Summary

A clip-on Top Filament Sensor Bracket for the Creality Ender-3 V3 (use with a Top Mounted Spool Holder)

[3D Printers](#) > [Creality Parts & Upgrades](#)

Tags: [creality](#) [filamentsensor](#) [ender3](#) [ender3v3](#) [e3v3](#)

This is designed to work with [Ender-3 V3 Top Spool Holder \(Rear Facing\)](#) and requires some additional bolts and an extension cable, but does not permanently change anything on the printer - you can simply remove the additional parts. If you prefer a Z-Axis mounted Bracket see [Ender-3 V3 Z-Axis Filament Sensor Bracket](#).

Note: This will **not** fit the Plus model as its frame is differently sized. I do have test versions in the Test folder of [Ender-3 V3 Top Spool Holder \(Rear Facing\)](#) but there's no guarantee that they will fit as I don't have a Plus myself to test against. If you want to try, do, and let me know...

Additional Parts

You'll need two additional M3x12 bolts and an extension cable for the Sensor. After some false starts I eventually found the perfect cable which doesn't need making up or soldering. If you search for "XH 2S LiPo battery

balance extension lead” at 200mm length in your Favourite Online Store that should fit perfectly. Just double-check the images to be sure (2S means 3 pin for some reason).

Printing

Print the Sensor Bracket and Cable Grip at 3/3/3 walls/top/bottom and 15% infill - no supports required. I very much recommend PLA+ or PETG for strength.

Assembly

First switch off the printer!

Then look at the back where the filament sensor is. Carefully unplug the wiring to the sensor, remove the PTFE tube (push on the brim of the part that holds it in to release it) and unclip the large wiring assembly. Then undo the bolts that hold on the Sensor and the Clip - keeping them for the new Bracket.

Now bolt the Sensor and its Clip onto the new Bracket. Use your new M3 bolts to bolt the new Cable Clip in place where the original was. Attach the extension lead to the Sensor and clip the large wiring in place on the Cable Clip. Pull the Sensor wiring out of the fabric wrapper holding the wiring assembly, wrap the extension cable wiring around the sensor and into the cable guideway and then attach them together. Snap the bracket onto the frame by hooking it in at the back then bringing it forward until the front snaps in under the frame. Finally remove all but one of the clips on the PTFE Tube and re-attach it to the Sensor, this time at the bottom. Keep the clip on nearest to the print head.

Now turn the printer on and mount some filament - make sure that you can Home the print head without any problems and that filament is detected. Then run Input Shaping and we're done!

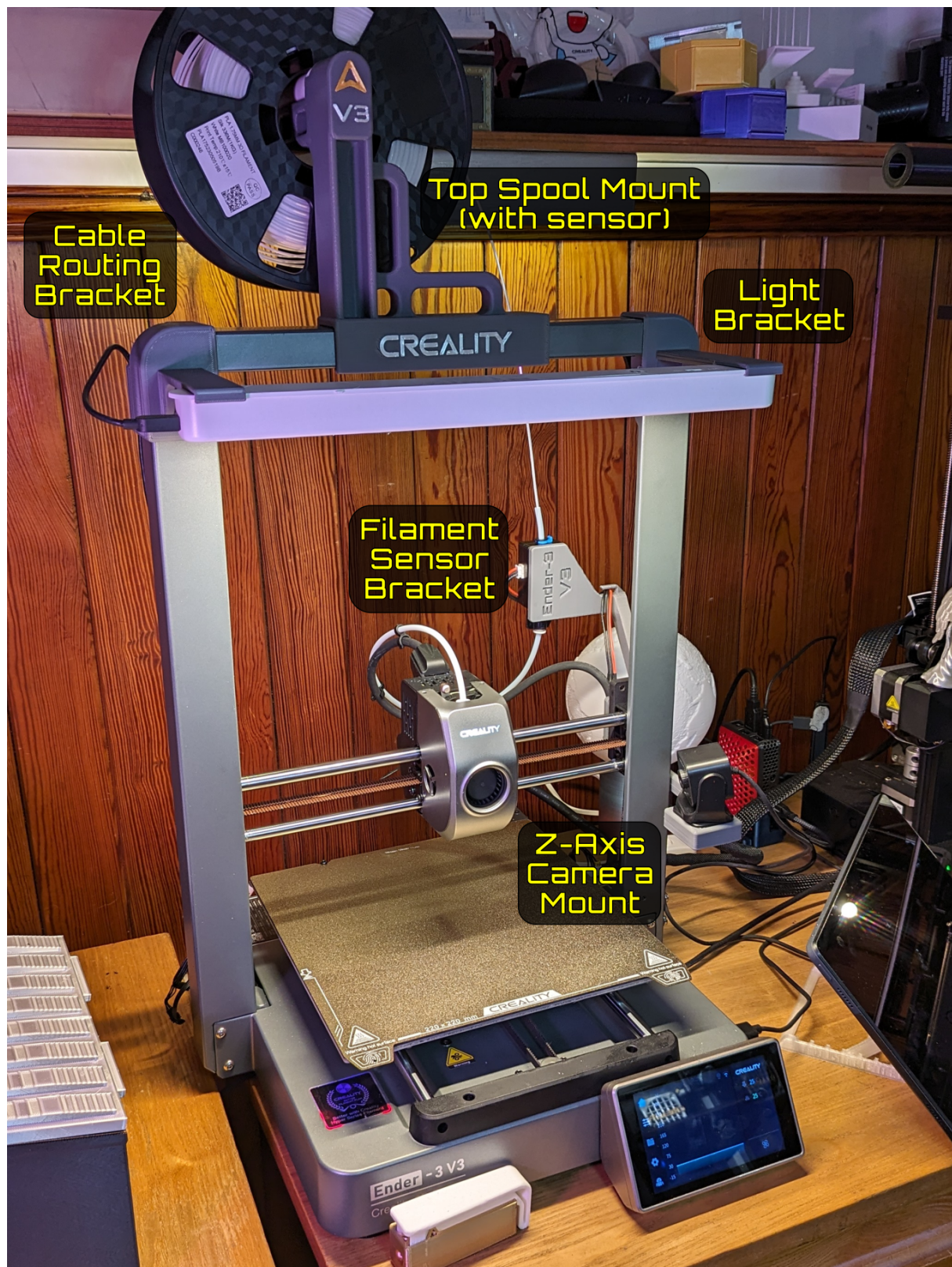
EdinBearDragon



Support me on Ko-fi

E3V3 Collection

This is part of a collection of Ender-3 V3 Mods, designed to fit with the aesthetic of the printer.



Ender-3 V3 Top Spool Holder (Rear Facing)
Ender-3 V3 Top Filament Sensor Bracket
Ender-3 V3 Z-Axis Filament Sensor Bracket
Ender-3 V3 Top Spool Holder (Front Facing)
Ender-3 V3 Light Brackets for IKEA Rolfstorp
Ender-3 V3 Z-Axis Logitech Camera Mount
Ender-3 V3 Z-Axis Nebula Camera Mount
Ender-3 V3 Corner Brackets for Remixing

Model files



STL

2 files



top-mount-bracket.stl



top-mount-cable-grip.stl



STEP

2 files

top-mount-bracket.step

top-mount-cable-grip.step

License

This work is licensed under a
[Creative Commons \(4.0 International License\)](https://creativecommons.org/licenses/by-sa/4.0/)



Attribution-ShareAlike

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition

