

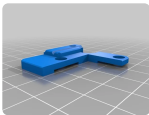
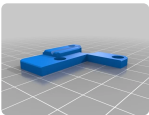
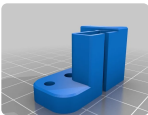
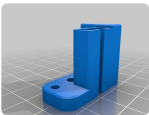
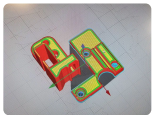
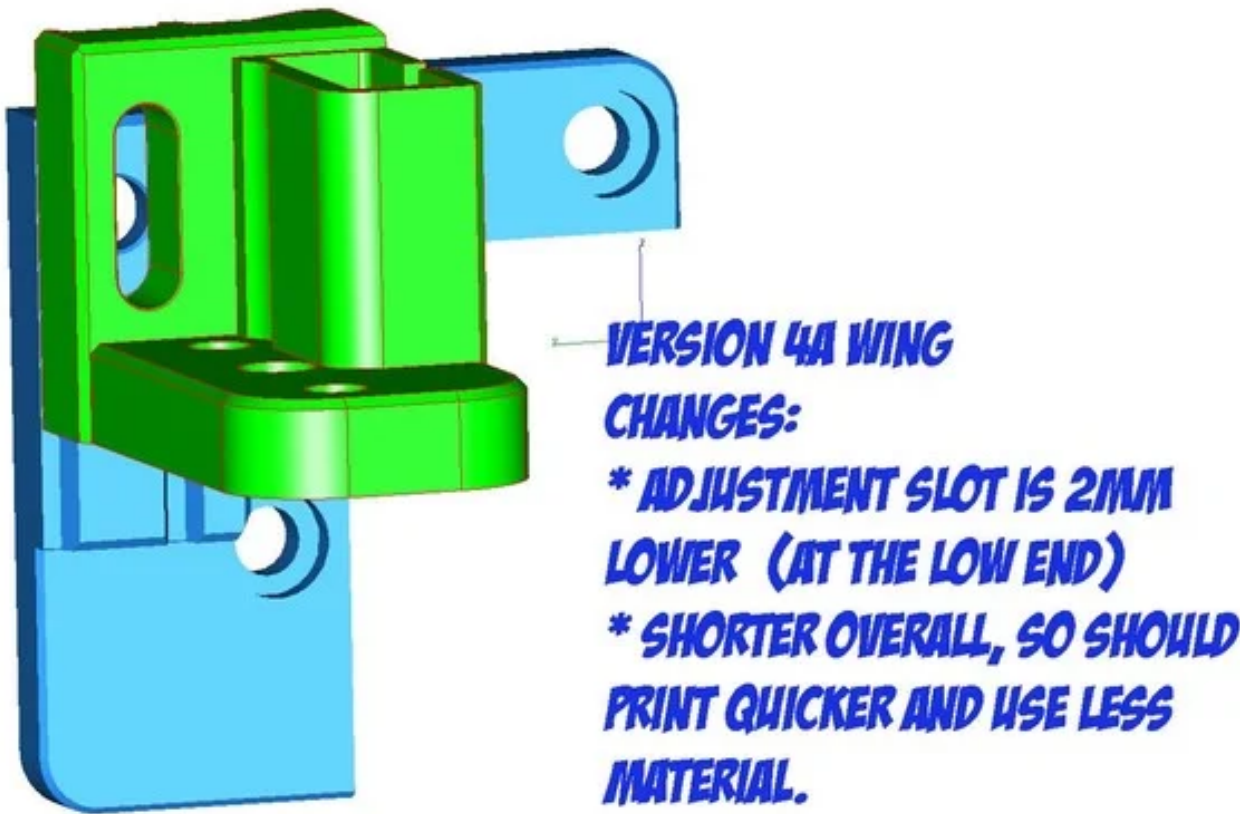
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Adjustable BL-Touch sensor mount for Ender 3 and CR10 (with STEP file)

by [registeredthing](#) October 11, 2018



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Remixed from:

CR-10 BLtouch mount by registeredthing Apr 14, 2018

Summary

This is an adjustable (up and down) mount for BL-touch, and BL-touch type sensors. It is designed for the Ender3 (and therefore also the CR-10 and other Creality printers that use the same hot end design).

This thing is a mash up of the rails used in Chito's "CR-10 Heavy Duty customisable modular e3D V6 mount Volcano 5015 ABL", and the mount used in Lucid's "CR-10 BLtouch mount", and is designed to be adjustable.

tl;dr:

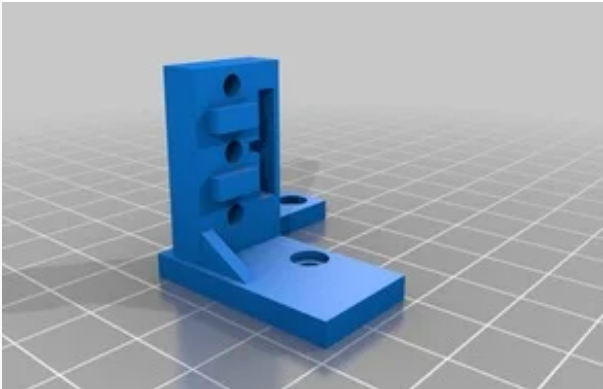
These are the recommended files to use/print:

Base Mount:
adj-bltouch-mount-3D-mount-EC-mod.stl
why - because it has pockets for the fan cover, print with supports.

Wing:
adj-bltouch-mount-4A-wing.stl
-or
adj-bltouch-mount-5C-Short-Wing-M25.stl
why - because these print faster and have more adjustment range. Use the M25 verison (untested but should work) if you want the m2.5 nuts to be captive in the mount - which should make things simpler. No Supports needed.

Hardware:
This mount will need a 10mm M3 screw and a M3 nut in addition to the mounting hardware for the touch probe.
Optional is some nail polish to help hold the M3 adjusting screw once it is set where you want it - **thanks ixian for the idea.**

All files can be printed at 0.2mm layer height.



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Tags

3DTouch, 3DTouch mount, BLTouch, bltouch mount, CR10, Ender 3, probe, sensor, sensor mount, STEP, Touch

License



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STEP files is included for easy remixing.

Good Luck!

Updates

Since this was originally posted, there have been a few updates (newest first):

7-11-2020 There is a 6-32 version here (for using with a 6-32 screw and nut to secure the wing position): <https://www.thingiverse.com/thing:3509991>

3-11-2020: Thanks to benebrady's cool remix which adds some recessed M2.5 nuts to the fixed mount (<https://www.thingiverse.com/thing:4216492> - EDIT 7/11/2020 link is not working), I was inspired to add the same update to the adjustable mounts. The original wings will be left, but I added new versions which have recesses that can take a M2.5 or an M2 nut (M2 is not standard, but what I have a bunch of). I have not tested the M2.5 versions since I don't have any M2.5 hardware on hand, but the design is close to the spec for M2.5 nuts with a little extra margin (5.08mm flat to flat). The wings are imprinted with the size to avoid printing the wrong size.The STEP files are also uploaded for easy remixing.

4-25-2019: Thanks to Eric_Csuf's improved remix of the 4-40 version <https://www.thingiverse.com/thing:3586322> (and his permission), the mount posted here has been updated with pockets which help the base of the mount sit flush to the hot end carriage that it mounts to. **The updated mount is named:**

"adj-bltouch-mount-3D-mount-EC-mod.stl"

If you use the new version of the mount part (above), please print it with supports, since it has pockets on the side that faces the carriage.

I will leave the original version of the mount (adj-bltouch-mount-3D-mount-RTP.stl), without the pockets, here as well.

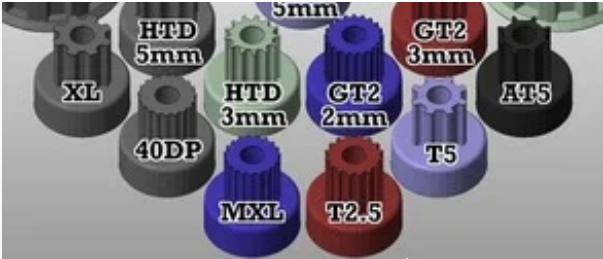
10-27-2018: Minor update to the wing design. I will leave the original version (3D) available, since it appears to be working, but have also uploaded a new "4A" wing design. The differences between the "3D" and "4A" design are:

- adjustment slot extends 2mm lower, since it appears that most people are setting the mount near the lowest point of the adjustment range.
- decreased the overall height which may help with printing quicker and saving some material.

If you have different hardware on hand (other than M3), check the remixes out. If you don't have any M3 nut handy, torsoreaper posted a remix that does not need it (just requires the M3 screw).

How I Designed This

This was designed with ViaCAD V9



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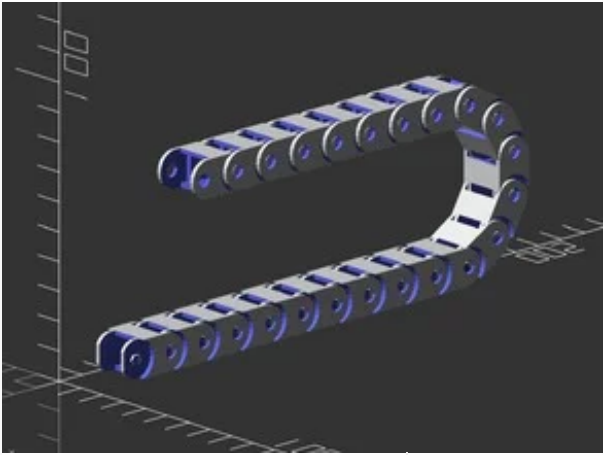
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