

Sprite Extruder: Ender S1 Plus/Pro CR-Touch mount for better leveling

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Summary

Mount for Cr-touch that makes y-offset of probe to 0, accounting for imperfections in bed travel. No rewiring needed

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This mount goes onto the Sprite extruder, and makes the CR touch inline of the nozzle. I.e it makes the y offset of the probe 0. New offset is- (-55.5 , 0)

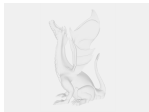
You will have to update the firmware with the new offset values. Also, this model does not require any rewiring. It does require tapping couple of holes though. If you don't have a tap, you can make the holes bigger and use a longer screw + nut

Since the Automatic Bed Leveling (ABL) assumes that motion systems are totally perfect and only the Bed is tilted/warped, any wobble or relative shift in level when the bed or gantry moves means that the ABL process will fail.

For me personally, the bed would rise at a certain Y axis value, and I saw it as a hump across the bed in the bed mesh viewer. Since there was a Y offset between the probe and the nozzle, the real hump (which was due to the bed track), the software got confused and I didn't get good prints.

Since the y offset is now 0, I essentially removed that piece of variability, and now the ABL should account for any bumps or humps in the y axis track OR in the bed level/warp.

Model files



cr_touch_offset_v3.step



cr_touch_offset_v3.sldprt



cr_touch_offset_v3.stl

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