



## CR-10 Smart static hot-end with bltouch mount



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### Summary

Mount the stock hot-end from the CR-10 Smart or CR-6SE without using the strain gauge hardware.

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Quickly whipped this up in Fusion360. Meant to fit around the Bondtech LGX direct drive mount as pictured.

I got totally fed up with the absolutely horrid strain gauge system this printer came with by default. I'd already been using Klipper since I received the printer on its launch day but that wasn't enough to make up for the bad auto leveling system + bowed y-axis extrusions + extremely bent bed that the printer came with. Hence, this. I didn't want to buy a new hot end setup and the stock hot end is capable enough for a huge bed slinger.

I'm still using the stock motherboard so a bltouch isn't easy to wire up to it, but instead I've wired it to the GPIO pins on my pi. Since I'm on klipper, bltouch works immediately wired into the pi.

I discovered this makes you lose a small amount of X-axis travel and reduces your print volume on the X-axis. This isn't a problem for me but beware of this design flaw.

Printed in PETG 100% infill

TODO:

Add shroud and duct for heatsink and part cooling fans

## Model files



**cr-10-smart-static-hot-end-conversion-v3.step**



**cr-10-smart-static-hot-end-conversion-v3.stl**

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