

Y Axis Belt Tensioner for CTC A10S



faultedlogic

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Summary

This is a remix of a remix of AHoward's Y tensioner for use on the CTC A10s.

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[belt](#)

Last week when I remixed AHoward's "CR-10 belt tensioners" Y axis frame mount, my CTC A10s was not yet restored to an operational state. Motions were perfectly smooth with that model and the tensioner worked fantastically, but once the printer was fully operational, I noticed that when the bed comes fully forward under the printers own power that the front two pom wheels were slamming into the front faces of the tensioner. I'm leaving that model intact as it probably works on a CR-10 and or other like printers.

I remixed it here, shortening and rounding the two forward structures, and added a third fastening position for lower extrusion at the printers front.

This version of the design attaches extremely solidly to the printer, and eliminates the pom wheel interference when the bed comes fully forward.

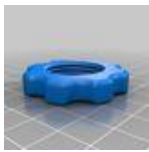
Unfortunately, unlike AHoward's original design, and my previous remix, this remix will require supports to print properly. Supports should be sliced so that they touch the build surface only. I sliced this using "tree mode" supports to save on both time and material while printing.

I'm quite satisfied that this will be my last revision to this part as it's working flawlessly.

If you like this design, all the credit should go to AHoward for his original design: <https://www.printables.com/model/202702-cr-10-belt-tensioners>

If you use this model for your Y axis belt tensioner and are in need of an X axis tensioner that matches, I'm using my remix of JOGIAREA's "Riemenspanner X tensioner" for the Tronxy XY-2 Pro as the CTC uses the same parts and has the same clearance issue with the inside T-nut connecting the carrier plate to the X axis extrusion. That model is at: <https://www.printables.com/model/529969-x-axis-belt-tensioner-for-tronxy-xy-2-pro>

This remix is based on



CR-10 belt tensioners

by AHoward



Y Axis Belt Tensioner for CTC A10S

by faultedlogic

Model files



y_tensioner_frame_mount_v2.stl



ctc_a10s_y-axis_tension_screw.stl



belt_tensioner_nut.stl

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