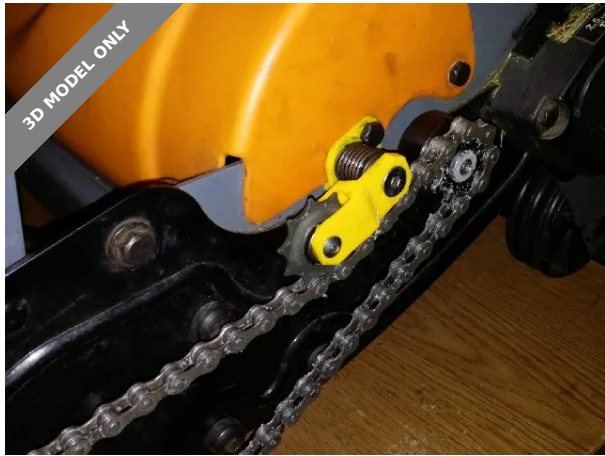




Chain Tensioner - Fiskar Momentum Reel Mower



JTDesign

[VIEW IN BROWSER](#)

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Summary

Chain tensioner for the Fiskar Momentum Reel Mower with Shimano derailleur

[Household](#) > [Outdoor & Garden](#)

Tags: [chain](#) [tensioner](#) [mower](#) [reel](#) [fiskars](#)

In action:

["https://www.youtube.com/embed/-8jptDK_gAs"](https://www.youtube.com/embed/-8jptDK_gAs)

Features

- Alignment with chain can be adjusted simply by tightening/loosening spring securing screw
- Design can be easily altered to fit various screws, and sprocket sizes.
- Adjusting design to fit other spring sizes will be a bit trickier because the mounting point and the lip that holds the "tensioner adapter" does not change.

Additional parts needed:

- spring from bike derailleur (I used a Shimano Atlas)
- sprocket from bike derailleur

- 1/4"-UNC screw or similar to hold together spring. Use other screw size if you want, you just need to fill in the hole and put in another hole size either in IRL or digitally

Key notes to use existing design:

- Hole for the screw that holds the spring is 5.8mm in diameter and 26mm deep. I suggest using a screw that is much shorter (ie <20mm long) so you can adjust sprocket alignment
- The spring OD must fit within a 19mm diameter and fits over a 13mm shaft. The spring I use steps down to a smaller diameter. Which is why there a 10mm ID x 16.2mm OD section for the spring
- The sprocket had a 38.2mm diameter. There were plenty of play in the bearing which was the reason for the extra clearance
- The hole for securing the sprocket has a 4.3mm diameter for threads and a 5.5mm for clearance
- Holes were sized so that the threads will be cut by the fasteners themselves.

Other Considerations:

- don't be afraid to use a drill to alter the holes sizes if the fit is close.
- Use a torch or heatgun to stretch out the "sprocket mount to get more clearance for the sprocket if necessary.

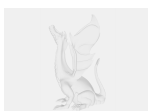
Printed with

- 3 walls
- 0.32 layer height
- 5 top layers
- 4 bottom layers
- 15% infill
- random seam

Model files



sprocket-mount.stl



tensioner-adaptor.step

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