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# PLA Spring Motor Demonstrator 2

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Located at: <http://www.youmagine.com/designs/pla-spring-motor-demonstrator-2>

## Short description:

An update of my 5 years ago original PLA Spring Motor.

## Description:

<https://www.youtube.com/watch?v=cxPHcMXsZno> PLA Spring Motor Demonstrator 2 is an updated Autodesk Fusion 360 design of my original PLA Spring Motor Demonstrator design of 5 years ago. The original PLA Spring Motor Demonstrator was designed as a "proof of concept" tool to test whether a 3D printed PLA spring could power a gear train and move a vehicle. As a result of that successful test, I was able to design a number of 3D printed PLA spring powered vehicles. This updated version has a 1 (drive) to 125 (driven) gear ratio in three gear stages and, as shown in the side by side comparison photograph, is slightly smaller than the original. And while not a requirement, I used Ultimaker "Tough PLA" for the pawl, spring and frames for additional strength and longevity. PLA Spring Motor Demonstrator 2 is a fairly easy print and assembly, and even though it was originally designed as a proof of concept tool, it is still a fun desktop conversation piece. As usual, I probably forgot a file or two or who knows what else, so if you have any questions, please do not hesitate to point them out as I do make mistakes in plenty. Designed using Autodesk Fusion 360, sliced using Cura 3.5.0, and printed in PLA and Tough PLA on an Ultimaker 2+ Extended and an Ultimaker 3 Extended.

If you can, please use the online documentation found at <http://www.youmagine.com/designs/pla-spring-motor-demonstrator-2> because those may have been updated. Also, there you can interact and provide praise and/or feedback.