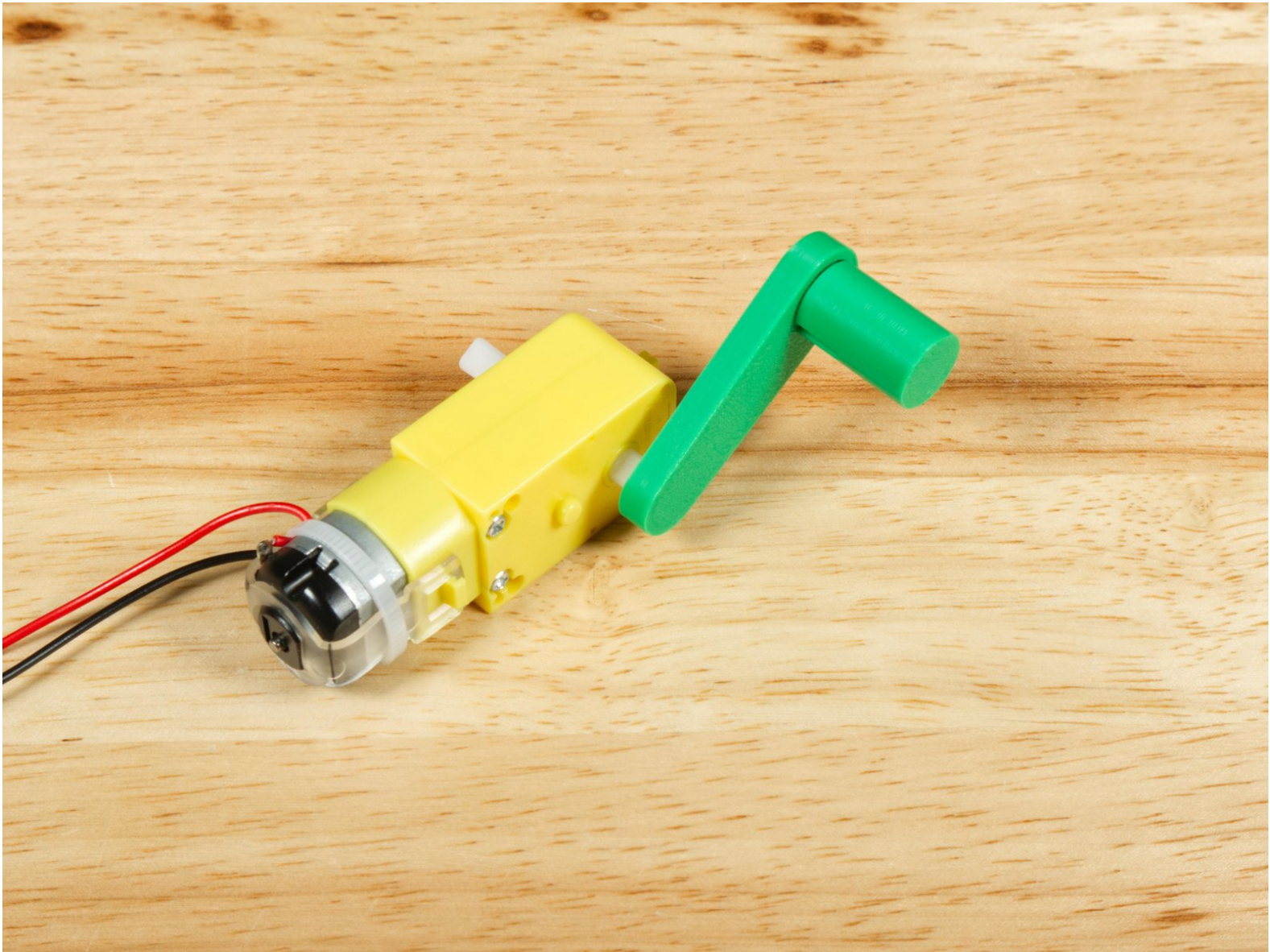




Motor Crank Handle

A 3D printed. handle that can attach to a motor shaft.

Written By: Pete Prodoehl



INTRODUCTION

A 3D printed. handle that can attach to a motor shaft.

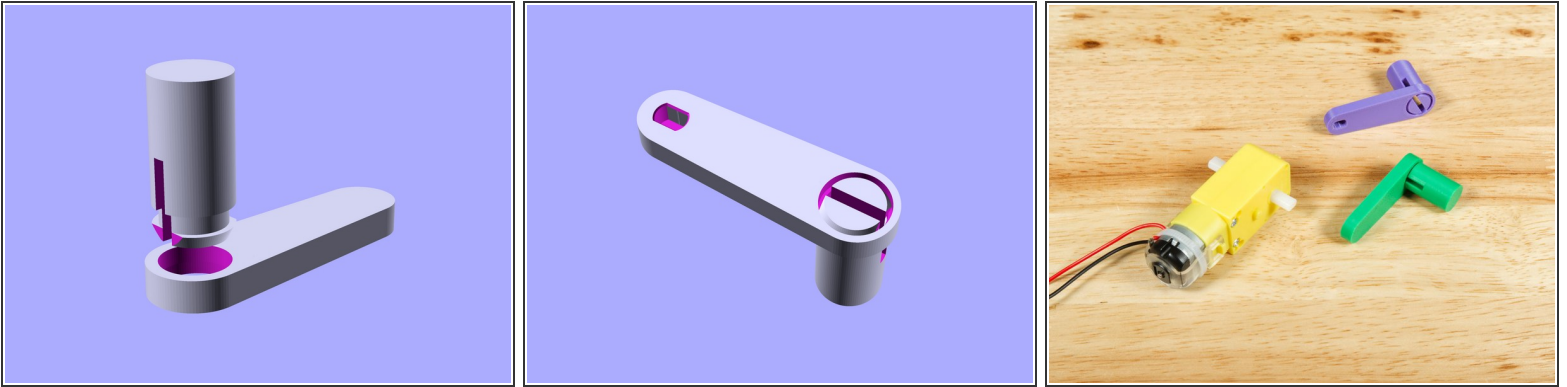
The crank allows you to turn a simple DC motor into a generator that can power a circuit!



TOOLS:

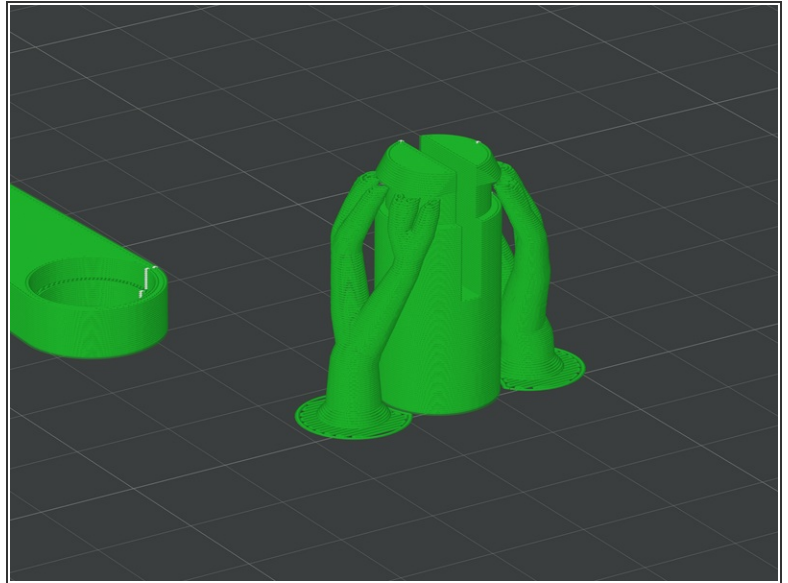
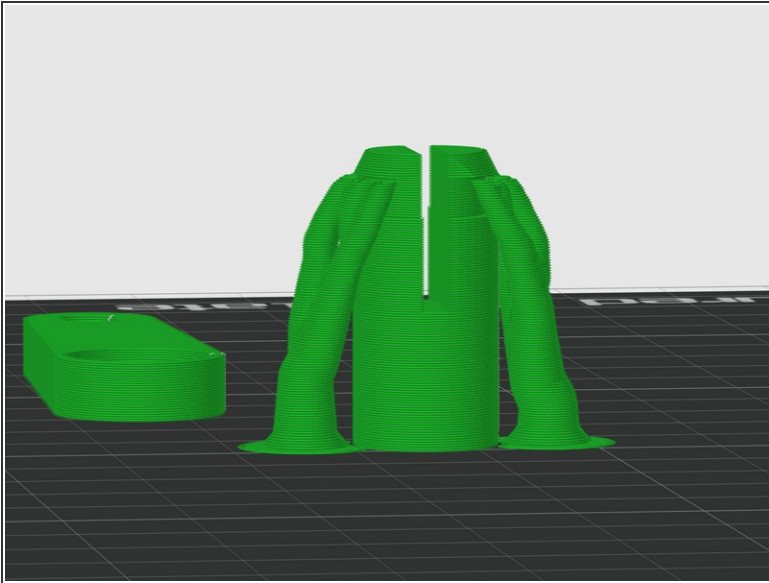
- [3D Printer](#) (1)
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Step 1 — Download and Print



- You can download the files and print them on your own 3D Printer.
- Find the files in our GitHub repository: <https://github.com/BrownDogGadgets/3D-Pr...>
- You can also find it on Printables: <https://www.printables.com/model/1439983...>
- Or on MakerWorld: <https://makerworld.com/en/models/2172598...>

Step 2 — Add Supports



- While our other 3D printed files can print fine without supports, the shaft for this one **does** need support.
- Adjust your slicing software to add supports for the shaft, and if you can choose **tree** supports we recommend you do.

Step 3 — Assemble the Crank Handle



- Once you have the two parts printed (and have removed any supports) assembly is easy.
- Just lay the handle flat on a table (with the pocket for the motor shaft facing down) and then press the shaft into place.
- The shaft will flex a bit to allow pressing into place and the plastic should then maintain and keep the two parts together.

Step 4 — Test it Out!



- Press the handle onto the shaft of a motor.
- If it does not fit you may need to adjust the size of the file and print again, or you can try to sand/carve away part of the print (if the fit is too tight).
- Once the handle is attached you can spin it!
- ☑ *Stay Tuned! We'll be adding guides that show a few ways you can use this to power your circuits.*