



Crickit Lab Shaker



[VIEW IN BROWSER](#)

updated 12. 4. 2022 | published 19. 10. 2019

Summary

<https://youtu.be/Tfv6wo20pNc> Full tutorial: <https://learn.adafruit.com/crickit-lab-shaker/> Build a lab shaker to...

[Hobby & Makers](#) > [Electronics](#)

Tags: [assembly](#) [arduino](#) [medical](#) [laboratory](#) [adafruit](#) [pva](#)
[dualextrusion](#) [labequipment](#)

Full tutorial: <https://learn.adafruit.com/crickit-lab-shaker/>

Build a lab shaker to agitate parts with PVA supports! This DIY shaker uses an Adafruit Crickit, Circuit Playground Express and DC motor. The speed is adjustable with a potentiometer. MicroUSB port is accessible for programming. The unit is powered by a power supply for constant usage. With 3D printed parts, electronics and hardware, you can create a lab shaker agitator.

Print instructions

Unassociated tags: orbital shaker

Licence: Creative Commons - Attribution Category: DIY Post-Printing

3D printing with water soluble material is a great way to produce complex geometry with overhangs. Parts with supports using PVA filament can take many hours to fully dissolve in water. Using a orbital shaker can help speed up the process and reduce the clean up from post processing.

PVA supports got you beat? Shake it off, ah ah!

Snap fit case!

How I Designed This

CAD Explosion shows how all the parts fit together

Model files



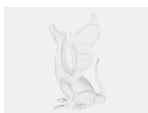
shaker-bottom-cover.stl



shaker-box.stl



shaker-bearing-base.stl



crickit_lab_shaker.f3d



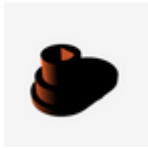
shaker-holder.stl



shaker-plate.stl



shaker-tray.stl



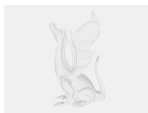
shaker-motor-hub.stl



shaker-idler.stl



shaker-top-cover.stl



cricket_lab_shaker.step

[Find source .stl files on Thingiverse.com](#)

License

This work is licensed under a
Creative Commons (4.0 International License)



Attribution

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✓ | Commercial Use
- ✓ | Free Cultural Works
- ✓ | Meets Open Definition