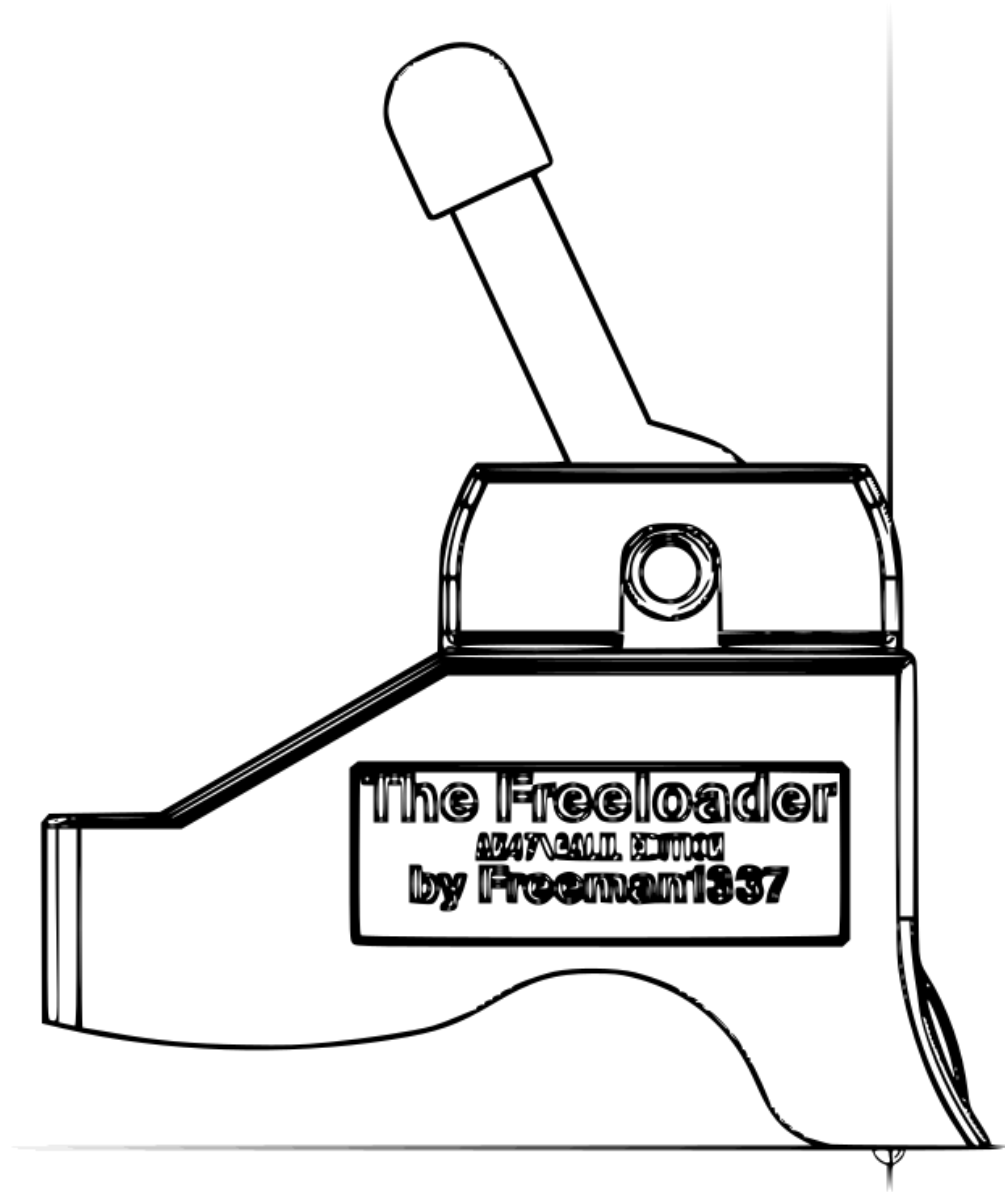


“The Freeloader” AK47/Galil Magazine Speed-loader

by Freeman1337

(an fully 3d printed magLula-style Ak47/Galil magazine loader)



Released: 12/20/2021

Version: 1.0

Acknowledgments

After announcing my "Freeloader" project to create a lula-style magazine loader for the AR15 platform, I decided to expand this project to include magazine loaders for other double stack/double feed platforms. With keeping to that promise, I present to you: The Freeloader - AK47/Galil edition!

Until I purchased 7.62x39 and a few AK mags for testing this project, I never realized what a pain in the ass AK mags were to load by hand! Glad I made this the next "Freeloader" release. I may also make an AK tray loader, let me know on Twitter if that's something the comblock community is interested in ;)

Print, shoot, and enjoy!!

Description

This is an magLula-inspired 3D printable AK47/Galil magazine speed loader. This loader allows for fast loading (and unloading) of AK47/Galil magazines. Using between 50 grams of filament, this model can be printed for around \$3 of PLA+ filament (a 10X savings over purchasing an OEM loader. I encourage you to support magLula by purchasing their magazine loaders if you enjoy their style of products, but the intent behind this print is to be able to cheaply print a bunch, and throw them into range bags/ammo cans/etc in order to save ones thumbs/quickly unload mags without expending excess ammo.

Instructions

Materials Required:

- PLA+ filament of your choosing. Overture PLAPro
- x1 AR15 milspec magazine catch (optional)

Tools:

The only tools required for this release are related to post-print cleanup. Sandpaper, a sharp knife, etc could be helpful here, depending on how calibrated your printer is and what types of supports you choose to use. Use tools that allow you to remove small amounts of material in specific locations. Cleanup of the magazine catch area, and smooth operation of it, are vital to a functional speed loader.

Print Settings:

Layer Height

Body	0.3mm
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Shell

Wall Line Count	10
Outer Wall Wipe Dist	0.4
Top/Bottom Thickness	1.32mm
Top Layers	10

Infill

Infill	100%
Pattern	Grid

Material

Print Temp	217 C
Bed Temp	60 C

Speed

Print Speed	50 mm/s
Infill Speed	60 mm/s
Outer Wall Speed	30 mm/s

Inner Wall Speed	60 mm/s
Top/Bottom Speed	40 mm/s

Travel

Enable Retraction	True
Combing Mode	All

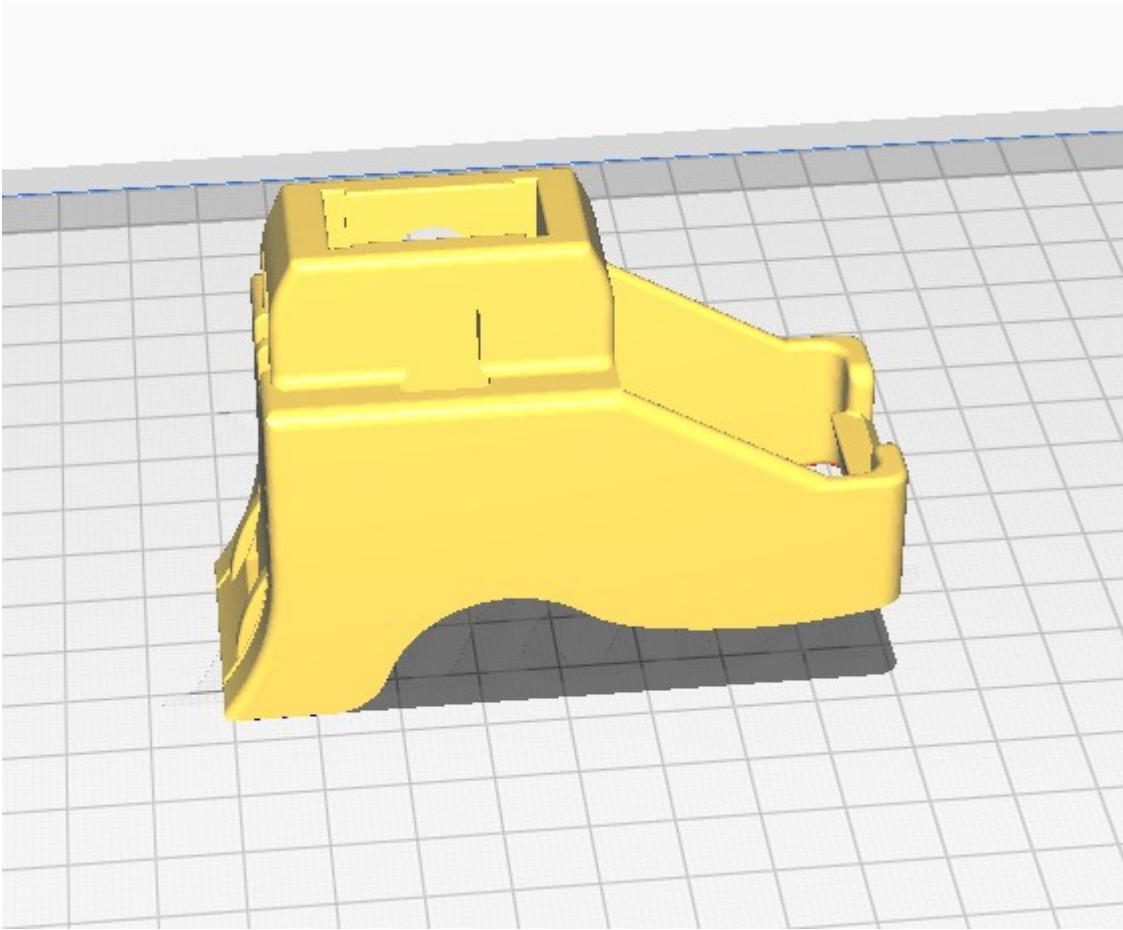
Cooling

Enable Fan Cooling	True
Fan Speed	85%

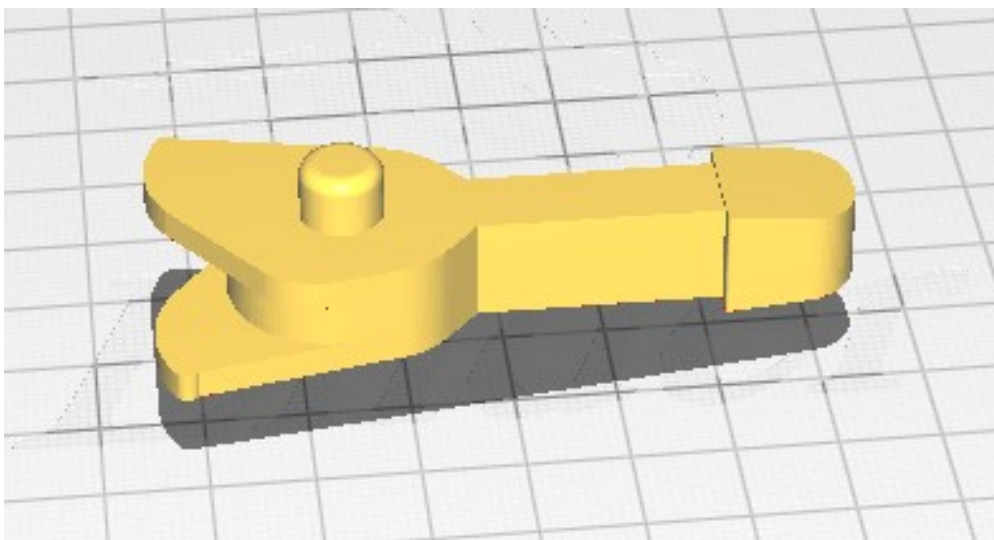
Support

Generate Support	True
Support Structure	Tree
Support Placement	Touching Build Plate
Support Overhang Angle	Autogen (cura)

Material List:



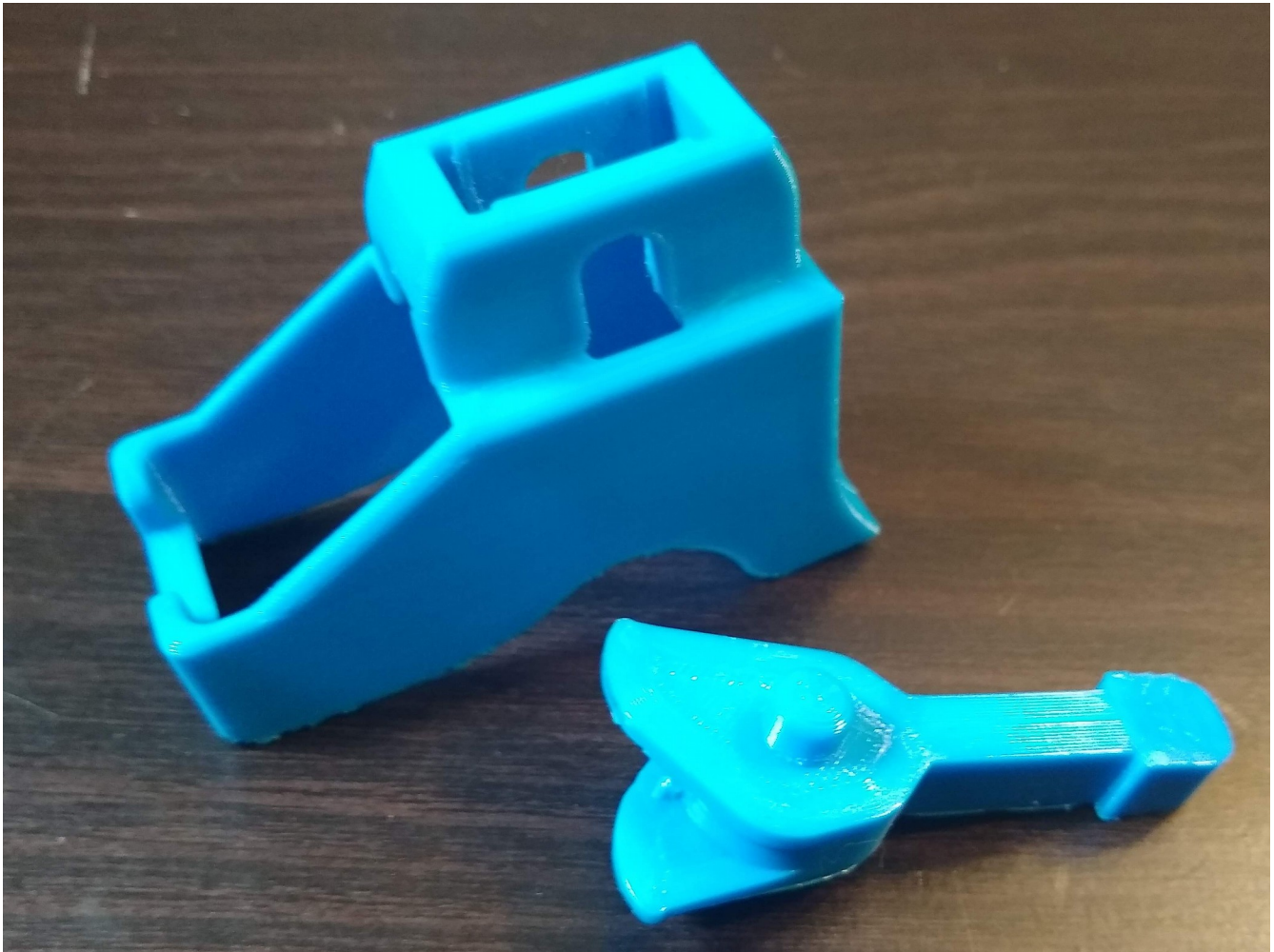
Loader Body



Loader Lever

Assembly

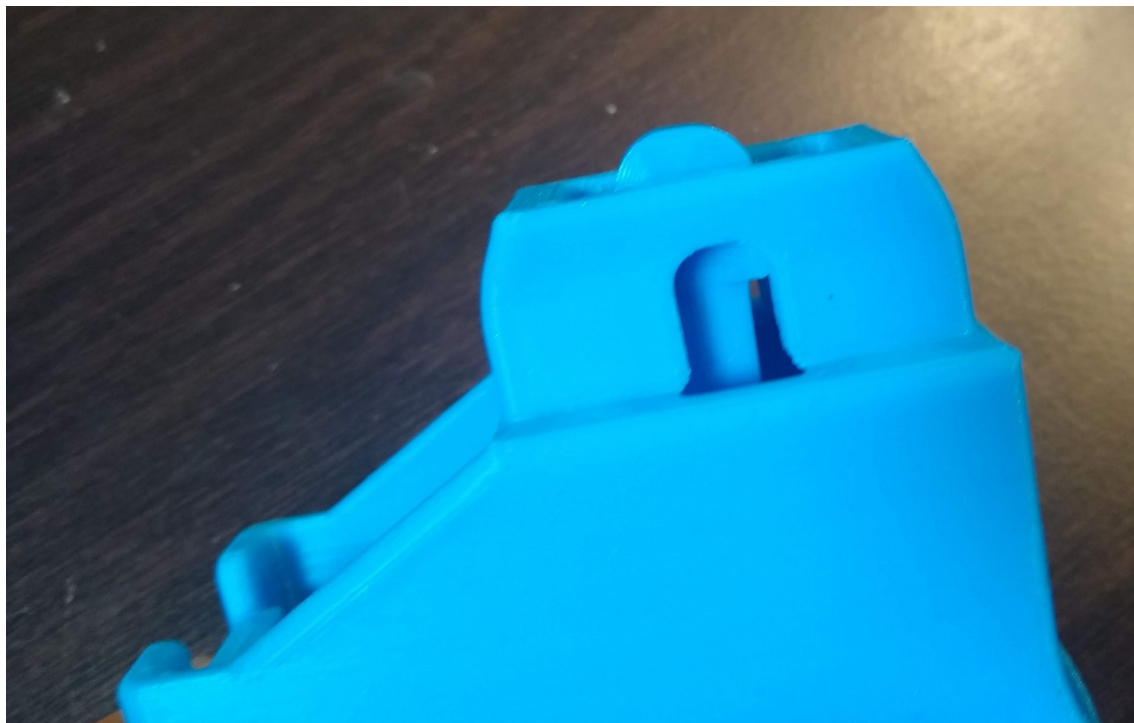
01. Remove all parts from the print bed and remove all support material.



02. Insert the lever into the body as shown:



03. Pull the lever all the way through, and seat it in the required position.



Finished: your loader is complete and ready to use.



Usage -Loading

01). Insert a magazine into the body of the loader by hooking the front of the magazine into the front of the loader.



02). Push the loader down onto the magazine, latching the back of the magazine into the corresponding tab on the magazine loader body.



03). Using the lever, depress the mag follower on the so that the first round may be slid into place.



04). Moving the lever back and forth to insert subsequent rounds, continue loading the magazine until full



Usage -Unloading

- 01). Insert a loaded magazine into the loader body
- 02). turn the magazine and loader down so that loaded rounds will fall downwards.
- 03). Move the lever back and forth, allowing rounds to fall out of the loaded magazine. Continue until magazine is empty.

Licensing

GPL v3.1

Note: Resulting prints derived from this design or it's derivatives may not be sold for commercial purposes or significant financial gain of any kind. The printing and selling of magazine "parts kits" for sale close to the cost of manufacture is encouraged, especially for those of you behind enemy lines.

Closing Thoughts

Before starting this project, I was never really a fan of the AK platform. I love my 91/30s, but I've not had my hands on an AK pattern rifle yet. That said, this project gave me enough of an appreciation for the simplicity of this platform that I'm ordering my first AK as soon as I find a decent quality one in stock (somewhere). Not sure exactly when this one is gonna be released, but if it's around the holidays of 2021, wishing you and yours a great holiday season, whatever they happen to be to you.

As always,

Freeman1337