



Deterrence Dispensed  
presents:



# The Menendez Magazine v2.0



For 9x19mm Glock Doublestack Magazine Compatible  
Firearms



## Preface

This is the Menendez Mag v2.0 documentation – it will walk you through assembling, testing, and troubleshooting your own 3D printed Glock magazines. This project improves significantly on the previous version of the Menendez Magazine – these new magazines will last longer, feed more reliably in a wider variety of firearms, and fit better inside of various magwells.

For a video that shows this process in real time: [https://odysee.com/@Ivan's\\_CAD\\_Streams:c/MenMag-Tutorial-video:e](https://odysee.com/@Ivan's_CAD_Streams:c/MenMag-Tutorial-video:e)

This project came about during an ammo drought – so live fire testing was somewhat limited compared to the testing done on the MenMag v1.0. However, lots of dry cycle testing was done – I dry cycled 500 rounds through a magazine, then live fired it for 100 more – no issues. Conversely, a magazine straight off the printer fed perfectly for me as well.

While your results may vary, and the MenMag v2.0 isn't meant to be a replacement for OEM magazines, I've found its reliability to be on par with or superior to Magpul Glock mags, and far better than Promag magazines. Following this guide, the print instruction in the README, and being familiar with your printer should ensure you comparable results to what the beta testers of this project reported.

If you have found this tutorial useful, consider sending me Bitcoin to further development of this sort of thing – there is much more to explore in 3D printed guns, DIY guns, DIY ammo, etc.



BTC: bc1qm9q5lu5skq8e50yqz8hps69r44lmue6sfq5y2y

Thanks to Senator Bob Menendez (D, NJ) for his hard work! Send him pictures of your magazines on Facebook and Twitter.

Remember that it is our shared responsibility to be safe and smart with firearms and show the world there is a peaceful way to own guns – take the time to get training, to learn basic (and advanced) safety rules, and to share the hobby with everyone interested – those most scared of guns in the hands of the people are often the ones who have no experience with guns in the first place.

## Table of Contents

Preface .....	2
Shopping List.....	5
Tooling .....	5
Printed Parts List .....	6
Assembly Tutorial.....	7
Step 1: Prep Work .....	7
Step 2: Installing Parts.....	7
Initial Testing.....	12
FAQ/Troubleshooting .....	13

## Shopping List

This list is pretty simple – you'll need a **Glock magazine spring**, the correct size for the magazine you wish to print. You can find these springs in many places. Wilson combat has cheap ones, but Brownells, RockYourGlock, MidwayUSA, and several other outfits sell them too.

**For the Menendez Mag (17 round)**, you will need a Glock 17 mag spring. Cheapest good spring I've seen: [https://shopwilsoncombat.com/Wilson-Combat-Extra-Power-Magazine-Spring-Music-Wire-for-Glock-17\\_22/productinfo/798G-MW/](https://shopwilsoncombat.com/Wilson-Combat-Extra-Power-Magazine-Spring-Music-Wire-for-Glock-17_22/productinfo/798G-MW/)

**For the Extendez Mag (30 round)**, you will need a Glock 18 mag spring. Cheapest good spring I've seen: <https://shopwilsoncombat.com/Wilson-Combat-Extra-Power-Magazine-Spring-Music-Wire-for-Glock-17-33-Round-Magazine/productinfo/848/>

**For the FGC-9 Mag (25 round)**, you will need a magazine spring from AliExpress (or a comparable Glock 17 extended length spring, like those meant to be used with extended baseplate Glock 17 magazines). The link to these springs can be found here: [www.aliexpress.com/item/4001268513095.html](http://www.aliexpress.com/item/4001268513095.html)

On some of the AliExpress springs, a little fitment may be required - instruction on using them can be found here (big thanks to BoostWillis for doing the R&D on them): <https://gitlab.deterrencedispensed.com/BoostWillis/aliexpresssprings>

As with most things, using the correct spring for the job is recommended – but you are free to mix and match, and try and find what works. I've used two G17 springs in a Extendez and had it work, for example. An extra power G17 spring might work well in the 25 round mags. Feel free to experiment!

## Tooling

### Punch/Cartridge

A punch or cartridge or pencil or whatever else is used to disassemble the magazines. You could also probably just use your pinky finger.

## Printed Parts List

**\*\*REFER TO THE README FOR BASIC PRINT INFORMATION\*\***

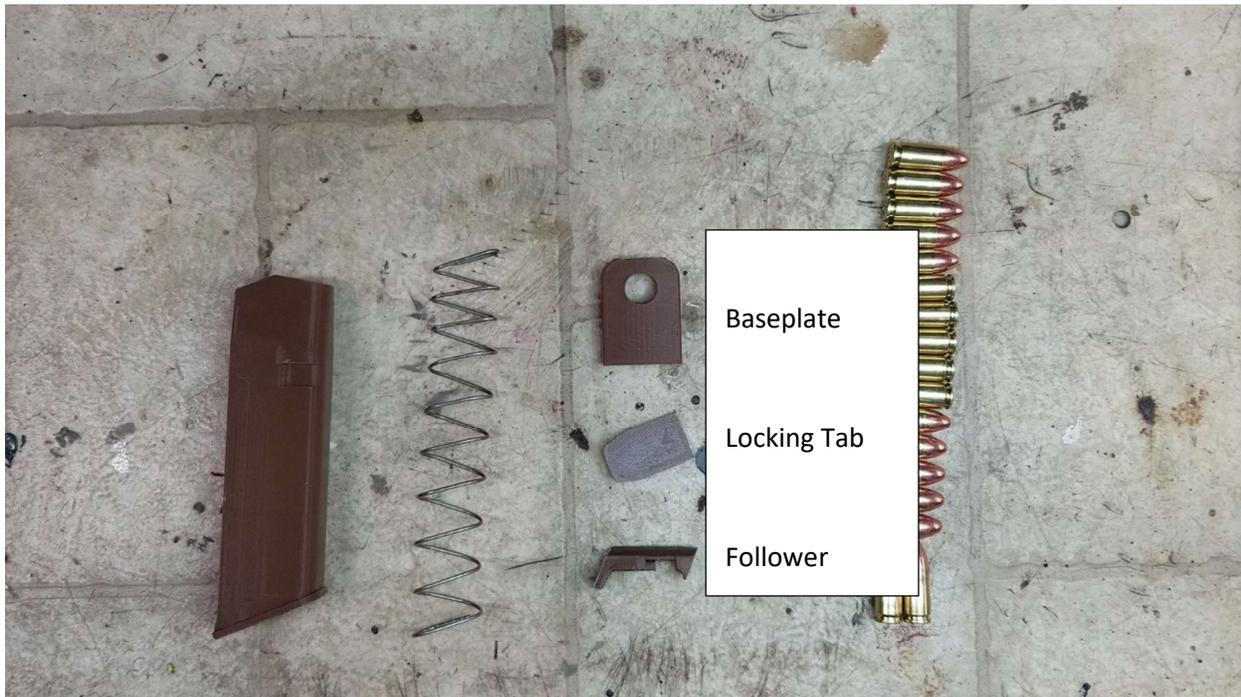
You will need:

1x Mag Body (Of the size you'd like)

1x Follower

1x Baseplate (Of the shape you'd like – the G26/G19 baseplates will provide a better look in a G26/G19, the G17 plate will look better in a G17. If you don't care about the looks, use the standard baseplate).

1x Locking Tab



## Assembly Tutorial

I recommend you read this section in its entirety before you assemble your magazine – while it is quite simple, if you haven't done this sort of thing before, you can avoid making silly mistakes.

### Step 1: Prep Work

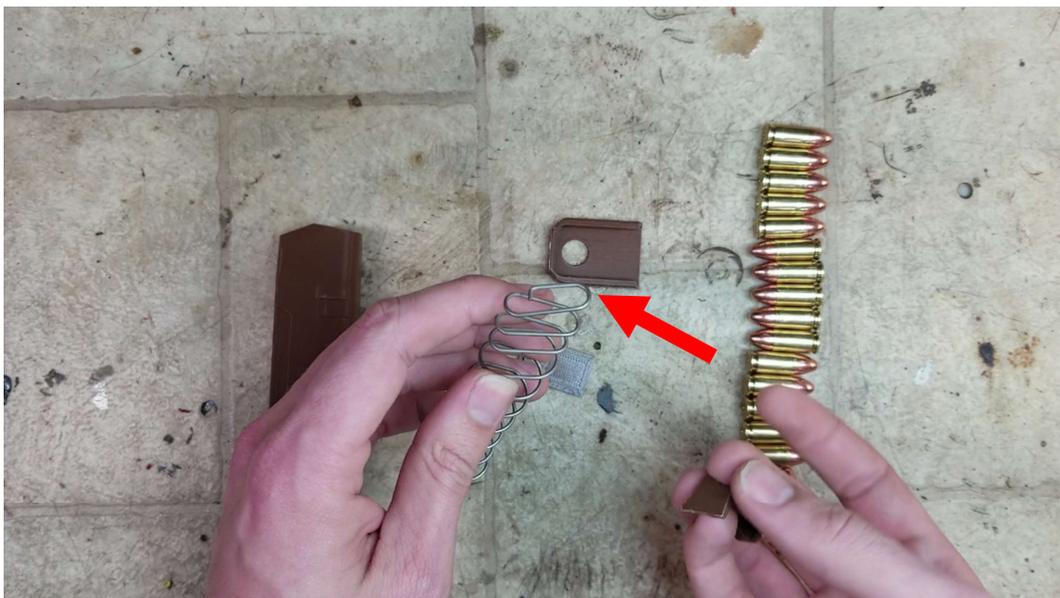
Remove all parts from the print bed. Remove supports from the follower (a screwdriver or pair of pliers make this easy).

Be sure to remove any brim used when printing these parts – a box cutter or your fingernail work well for this. Lay out all of your parts with your magazine spring and move to the next step.

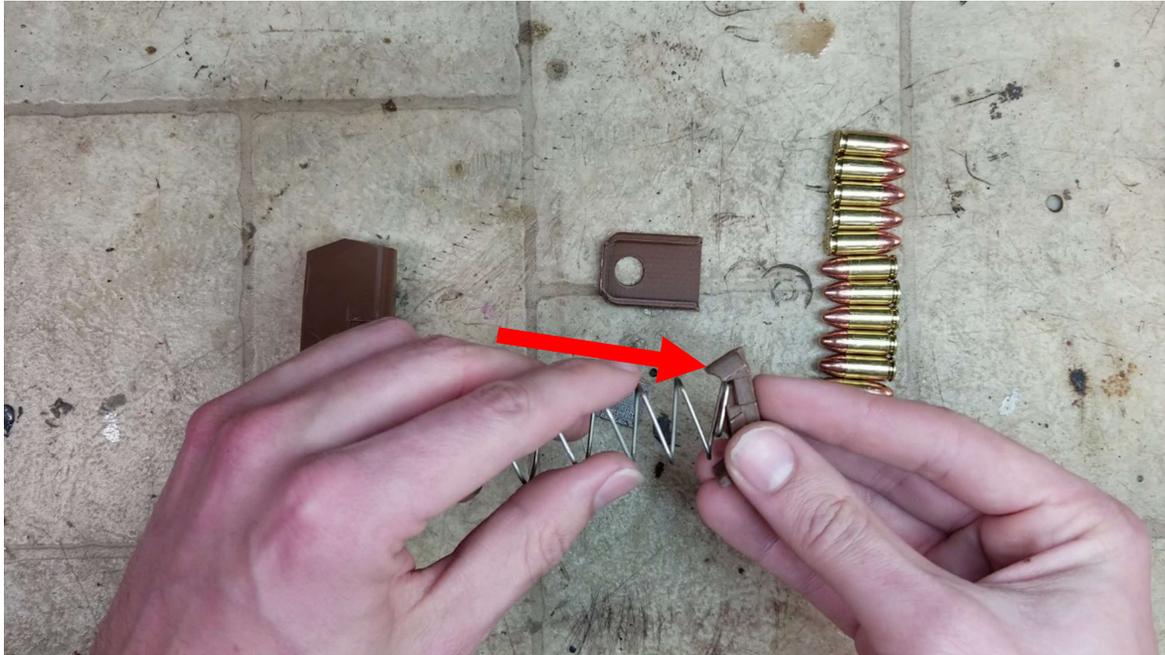


### Step 2: Installing Parts

Start by taking your follower and magazine spring. If you aren't already aware, Glock magazine springs have a top and bottom, as well as a front and back. The top of the spring is the section where the width of the spring is smaller – the bottom is thicker. The front is the area trailing from the end of the spring wire at the top of the spring – the arrow in the following picture is the top and front of the spring.



After finding the front/top of your magazine spring, take your follower and install the top of the magazine spring into the follower. The front of the magazine spring should be towards the front of the follower, the rear of the spring towards the rear of the follower. Note that the arrow in the following picture shows the front of the spring and the front of the follower. For reference, the rear of the follower prints touching the print bed (and is taller than the front of the follower).



The spring should clip gently into the follower – it won't be tight, but it will be slightly retained. Once you've got the spring seated on the follower, push both up the bottom of the magazine – ensuring that the front of the follower (the rounded part) is towards the front of the magazine (the rounded part).



After inserting the spring and follower, take your locking tab. You will be using the locking tab to depress the spring into the magazine. Make sure the front of the locking tab (the angled side) is towards the front of the magazine. Make sure that the round peg on the locking tab is facing AWAY from the magazine spring.



While holding down the magazine spring using the locking tab (again, make sure that the round peg is facing AWAY from the magazine spring), grab your baseplate. This is what things should look like before your baseplate is installed, while you are compressing the magazine spring with the locking tab.



Slide the baseplate onto the lip edge at the bottom of the magazine. The REAR of the baseplate (the side with the open end) will slide onto the FRONT of the magazine (where the magazine is curved).



Push the baseplate all the way onto the magazine. The locking tab will snap into place when the baseplate is pushed to the rear – this will lock the baseplate onto the magazine. At this point, your magazine is assembled and ready to test.



In order to disassemble your magazine, you need only take a cartridge, punch, or other sort of tool (even your pinky finger) and push the locking tab inwards (compress the spring) while pushing the baseplate forwards. After removing the baseplate, you can disassemble in the reverse order that you assembled.



*Using a cartridge to depress the locking tab and slide the baseplate off*

Now you know how to assemble and disassemble your magazine. You are now ready to do initial testing on it.

## Initial Testing

Load your magazine by inserting rounds from the top. When loading these magazines, it helps to use a loading tool (like the BW tool, included in the 'Add-Ons' folder), or to just push down hard on the rounds in the magazine before loading the next round. You can see how to use the mag loading tool by searching "Glock magazine loading tool how to use" on youtube. You can watch how I load these magazines by hand by watching this video: [https://odysee.com/@Ivan's\\_CAD\\_Streams:c/MenMag-Tutorial-video:e](https://odysee.com/@Ivan's_CAD_Streams:c/MenMag-Tutorial-video:e)



*Cycling some rounds through a gun manually*

Load your mag to full capacity. Do not overfill your magazines – while the Extendez magazine may be able to hold 32 rounds, it is designed to handle only 30 rounds being loaded in it. After loading, you can dry cycle some rounds through your firearm to test out feeding. Some magazines need a little break-in: it can take some rounds cycled through them in order to perform reliably, though this is uncommon. Be sure to be safe when dry cycling, remove your firing pin/striker if you don't feel safe chambering rounds in your house/apartment. Assuming everything goes well, you can skip the troubleshoot and prepare for a range trip.

One thing to note: while the MenMags will drop free, even when loaded, if they are left loaded for a long period of time, they tend to swell outwards some and will fit a little snug. They will still function reliably and won't be too tight in the magwell to use but won't always drop free reliably after they are left loaded for a long time.

## FAQ/Troubleshooting

Q: What sort of round counts should I expect? What ends up breaking?

A: Based on dry cycle testing, well over 1000. It seems that leaving magazines loaded for long periods of times can lead to the magazines swelling, but they still function, don't break, and don't seem to wear down as a result of being left loaded – they just fit a little tighter. I would guess that the magazine bodies will still be the part to wear out, but it's going to take a much longer time than on the v1.0 MenMags to get them to that point.

Q: What sort of reliability should I expect?

A: My testing with these mags has been flawless in terms of feeding – I've yet to have an issue in the couple hundred rounds I've live fired through these mags, across use in a DD17.2, DD19.2, DD26.2, and an FGC-9 MKI and MKII. One thing that I can't guarantee with much certainty is the slide hold open function (your slide may lock back one round early on some P80 or OEM frames – if this is the case, just file or sand down the leg on the follower that engages the slide stop by a hair). Also, if magazines are left loaded, they can swell some – so while unloaded magazines consistently drop free in properly sized magwells, loaded magazines might not if they have been left loaded.

Q: What guns do these magazines work in?

A: Based on the testing from the beta group – OEM Glock frames (17, 19, 26), P80 frames (17, 19, 26), printed Glock frames (17, 19, 26), Glock mag based AR15-9s, Keltec Sub2000, FGC-9 MKI and MKII, and WTF-9. This magazine should work in even more applications than this, but this is what was tested.

Q: Why is my magazine body cracking?

A: This is almost assuredly a result of using a material or print settings that are too weak. If printing in PLA, especially eSun PLA+, you should be sure to follow the settings in the README.

Q: What about stronger materials? What if I want a heat resistant magazine?

A: While I haven't had the chance to test things extensively, nylon alloy 910, PETG, and (if you have an enclosure and good setup) ABS should all work when printing this new magazine. I can't promise that the reliability will be as good as with PLA, but I can assure you that the v2.0 magazines don't rely on the flex/give of the magazine body to feed rounds like the v1.0 magazines did.