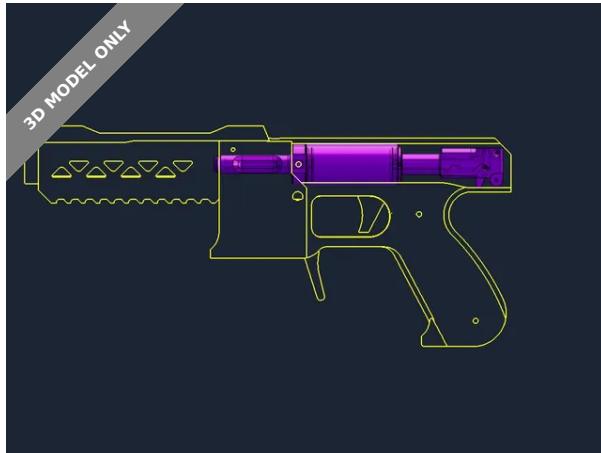




## Sturdy Printable Plunger Tube Set - SIGNET v3 Blaster - Nerf



[VIEW IN BROWSER](#)

updated 19. 10. 2026 | published 19. 10. 2026

### Summary

Sturdy 2mm wall-thickness printable plunger tube with matching plunger head, pusher, and rear block for SIGNET v3.

[Toys & Games](#) > [Outdoor Toys](#)

Tags: [toy](#) [dart](#) [barrel](#) [spin](#) [iron](#) [blaster](#) [adventure](#)  
[speed](#) [front](#) [t](#) [bee](#) [nerf](#) [accessory](#) [cylinder](#) [force](#)  
[half](#) [pro](#) [tube](#) [bolt](#) [pull](#) [side](#) [slide](#) [flywheel](#) [rail](#)  
[mega](#) [optic](#) [xl](#) [action](#) [scope](#) [prime](#) [shell](#) [sight](#)  
[foamdart](#) [x](#) [picatinny](#) [shot](#) [tactical](#) [loader](#) [revolver](#)  
[worker](#) [elite](#) [rear](#) [plunger](#) [gecko](#) [speedloader](#) [long](#)  
[buzz](#) [zone](#) [foam](#) [sights](#) [break](#) [spielzeug](#) [rival](#)  
[pusher](#) [optics](#) [visier](#) [short](#) [jolt](#) [pica](#) [signet](#)  
[fiberoptic](#) [spamf](#) [v3](#) [ironsights](#) [dartzone](#) [xshot](#)  
[adventureforce](#) [longshot](#) [buzzbee](#) [korn](#) [falconfire](#) [excel](#)

[tpull](#)[n1](#)[kimme](#)[foamflinging](#)[thrasher](#)[hvz](#)[airpocket](#)[longshot2](#)[plungertube](#)[spinshot](#)[breakbarrel](#)

---

The stock printable plunger tube included in the original files has a wall thickness of only ~0.4 mm (approx. 1 wall loop), which is quite fragile for a functional 3D-printed component.

**I made this mod to make self-sourcing much easier without needing a full hardware kit - just pair this plunger tube set with my **3D-printable barrels!****

For the Sturdy Printed Plunger Tube Set, **I recommend one of the 100mm barrel versions** marked with a green bullet point.

Because of the reduced inner diameter, the internal core components have been scaled and adapted accordingly.

### **Included Components & Modifications:**

- **Sturdy Plunger Tube:** 2 mm wall thickness (5 walls) for high stability.
- **Adapted Plunger Head:** Scaled down to fit the thicker tube wall.
- **Optimized Pusher:** Resized for the new tube ID, with reduced dead space (removed the internal funnel).
- **Modified Rear Block:** Adjusted dimensions so the plunger tube fits smoothly over it during priming.

Just print these 4 modified STL files in place of the original SIGNET v3 ones.

Every other STL from the original build is kept exactly as it is!

### **Performance Note:**

- Despite the minor decrease in air volume due to the thicker walls, the remaining volume is enough to efficiently supply the short SIGNET v3 barrel (100mm) with optimal pressure.

### **O-Ring Fitment Note:**

- You may need to experiment with slightly smaller O-rings (smaller inner diameter) than listed in the original BOM to ensure a perfect air seal inside the reduced tube diameter.

### **Padding recommended:**

- I recommend sticking a small foam pad (like a EVA foam pad or crafting foam) onto the plunger head. While it works fine without one, it reduces wear on both the plunger head

and pusher, while significantly dampening the noise for a surprisingly quiet shot.

**Lightly sand the inside of the printed plunger tube with a rolled-up piece of sandpaper.**

---

The files are already pre-oriented.

**My print settings for PLA:**

0.2 mm layer height

6 walls

40 % gyroid or cubic infill

10 top and bottom shell layers

Wall Generator: Arachne

Scarf Seams

Supports needed!

**Use an outer brim if you have poor print bed adhesion!**

**Check out my SIGNET v3 Collection:**

Find all my matching mods for the SIGNET v3 in one place.

**Thanks to Acorn Armaments for the files I could use for this remix.**

## This remix is based on



### Signet v3 - Modular Dart Blaster

by Acorn Armaments



### Modular Handguards for Acorn Armaments Blasters

by Acorn Armaments

# Model files



**sturdy\_printable\_plunger\_tube.stl**



**plunger\_head\_sturdy\_printable\_plunger\_tube.stl**



**pusher\_sturdy\_printable\_plunger\_tube.stl**



**rear-block\_sturdy\_printable\_plunger\_tube.stl**



**optional\_spring\_spacer\_2mm.stl**

☐ Slide 1 or 2 of them onto the rear block for a few more fps. It doesn't work with every spring!

## License

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



**Attribution—Noncommercial—Share Alike**

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

