



SIDETRACK - Hammer Prime Revolver Blaster



Mighty Shrub

[VIEW IN BROWSER](#)

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Summary

Mighty Shrub X Leedle Dynamics collaboration revolver blaster! A sleek break-action, hammer-prime nerf dart pistol!

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[yeehaw](#) [sidearm](#) [foamdartblaster](#) [halfdart](#) [signalis](#)
[leedle](#) [leedledynamics](#)

BUILD GUIDE

<https://www.youtube.com/watch?v=qU3vzP3y-Lo>

INTRO

Remember your promise in a most rootin' tootin' fashion

Presenting Sidetrack, a break-action hammer-prime revolver! Heavily remixed from the Hammerhead by Leedle Dynamics, the Sidetrack

achieves higher performance and consistency with conventional hardware. Also, it looks really cool!!

FEATURES

- Hammer prime
- Break action
- Inspired by the Chiappa Rhino / Signalis Einhorn
- Snappy target pistol design
- Sealed barrel
- Cheap, simple hardware
- Toolless spring swapping, with spacers for adjustable performance!
- Reliable performance, tunable between 100-150fps!
- Compatible with Retaliator, Outlaw, and Worker springs!
- Quick swap Muzzles
- [HAB KEINE ANGST]

HARDWARE

- 55mm of Moose Mod Shop 31k plunger tube
 - Shipping tube, 1.211" ID, 0.018" wall
 - McMaster #2044T354
 - ALT METRIC: 30.76mm ID, 0.4572mm wall
 - [I was able to find Cleartec PRT.012-1.215, which is 30.9mm ID and 0.3mm wall]
- 6cm/7cm standard barrel material
 - 16mm OD, .509" ID
 - 6cm for short muzzle, 7cm for long muzzle
 - Barrel ID should not be too tight!
- Retaliator Spring, Outlaw Spring, or cut down Worker spring
 - OD <18.5mm, ID >10mm
 - Max length 105mm, min length 65mm
 - Tunable with spacers
- 2x dash-913 O-Rings
 - 1.218" OD , 0.986" ID, 0.116" wall
 - ALT METRIC: 31mm OD, 25mm ID, 3mm wall
- 1x dash-110 O-Ring
 - 9/16" OD, 3/8" ID, 3/32" wall
 - ALT METRIC: 9.2mm ID, <2.62mm wall
- 8x M3 nuts
- 7x M3x25 button head screw
- 2x M3x20 screw
- 1x M3x45mm screw
 - (as long as you can get, it's for the spring cap)
- 4x M3x15 pins
 - (2x additional for long Muzzle)

- 1x M3x25 pin
 - (or, just another 15mm pin.)
- 3x small springs
 - <6mm OD, 10mm long
 - For the Sear, Trigger, and CylinderPost
 - Get a few different kinds, you will have to experiment to find the right balance of tension!
- 3/16" pin, ~1" long
 - ALT METRIC: 5mm pin, 30mm long
- 1mm cord
 - For the hammer return
- Lubricant
 - Applied to all moving components - the Breech orings, PlungerHead oring, BarrelSeal, and Rotator
- Glue
 - Applied to the face sealing dash-110 oring that goes in the Breech.
- NOTE: Light threadlocker (blue Loctite) is recommended for all of the screws!

PRINT SETTINGS

- Check the Sliced Assembly file for print orientations and settings
- Print all parts with at least 4 Walls and 8 Top/Bottom Layers. I recommend higher for optimal strength. Should be about 500 grams of filament!
- Print the following parts with maximum walls and Top/Bottom Layers:
 - PlungerHead
 - Breech
 - SpringCap
 - Latch
 - PrimeBar
 - HammerLeft
 - HammerRight
 - Rotator
 - CylinderPost
 - Trigger
 - Sear
- Support Overhangs in the following locations:
 - The shallow overhang at the tip of the Muzzle.
 - The cutouts on the FrameLeft and FrameRight for the trigger finger.
- Use brims as necessary for part adhesion.
- This blaster is reliant on the strength of continuous flat-printed parts. Therefore, I don't recommend using filament with additives, such as silk filaments, because they interfere with part strength.

BUILD TIPS

- **This is not a beginner build!** Some parts are fiddly and can be easily damaged during assembly if you are not careful! Read the entire Printables page and watch the Build Guide video!
- Print out the Plunger Tube Cutter in the Extras folder, it will make it much easier to cut the plunger tube to size!
- Check the Sliced Assembly file for print orientations and print settings.
- Watch the Build Guide video!
- **The Rotator and TransferPin have a significant break-in period.** Start by just assembling the Hammer components, the Frame pieces, and the Plunger assembly (no spring). Work the rotator over and over with the screws loosely driven. Slowly increase screw tension until they're as tight as possible without restricting the hammer return. Finally, apply a bunch of lube to the Rotator.
- Apply light threadlocker (blue Loctite) to all screws that go into nuts, but especially these areas:
 - Frame screw, right above the Rotator.
 - Frame screw that retains the LatchLever.
 - Frame screw that retains the Hammer.
 - Frame screw that retains the Muzzle.
- Installing the pins may require some force. Use a heavy object (hammer, metal bottle, etc) to gently tap the pins into place. A small drill bit may help widen the pin holes, but take care not to drill the holes too wide.
- For the elastic cord, measure out a 20cm length, fold it over once, then tie both ends. Both knots sit in a pocket on the underside of the Hammer, then travel through a slot to the front. This is covered by the HammerCover. At the front, there should be two exposed loops. Attach both of those loops to the notch in the Frame.
- If possible, print the Breech out of TPU! It will make the blaster extremely resilient to dry firing.
- This blaster is lefty compatible! Simply mirror the FrameLeft, Frame right, and LatchLever parts!
- If you have assembled the blaster and the Cylinder is under-rotating, it is likely due to friction in the Rotator. Continue to cycle the hammer until it is able to freely return. Additionally, add some lubricant to the Rotator.
- If you have assembled the blaster and the Cylinder is over-rotating, it is likely due to the spring in the CylinderPost. Grab a stronger spring, and make sure to install it correctly based on the video.

SHOUT-OUTS

Thanks as always to the following folks, in no particular order: Leedle Dynamics, MrHeathPants, Rainy, WindX, neonprismatic, Glow The Glow Bug, HackOnWheels, thunderwizzle, flaming_fox, cass, pixelpup, Bird!, Leafy.Sunrise, VainGorgonCrybaby, Lady_Khaos, Je, The_GOAT, LagDragon, Misaka Hiro, The Out of Darts team, my cats, my parents, and of course my wonderful fiancée

CHANGELOG

10.26.2026 - The Trigger has been adjusted to travel back further. Updated files are titled "R1.1".

a slow accumulation of reproduction errors a gradual corruption of information a story misremembered slowly morphing with each retelling like genetic material mutating and evolving like the [REDACTED] mind copied over and over from an aging template great holes secretly are dug where earth's pores ought to suffice and things have learnt to walk that ought to crawl [DU HAST ES VERSPROCHEN ICH BIN WIEDER ICH ABER DU BIST NICHT MEHR DU] ICH SIE WIR changed its like everything was taken apart and put back together by someone who doesn't understand how it works I HAVE BECOME WHOLE AGAIN i wear no mask a prison from which the only escape is death deep below the [REDACTED] floats in a sea of flesh the [REDACTED] birthing a new world from their [REDACTED] for eternity and each time the [REDACTED] turns over in their sleep the world turns over too

until only flesh remains

[THIS SPACE INTENTIONALLY LEFT BLANK]

You! Hey you reading this do you want to experience peak fiction and also be really sad? Then you should play [Signalis](#)!!

This remix is based on



Leedle Dynamics | [Printables.com](#)

Model files



Assembly

2 files



sidetrack-sliced-assembly-r11-20261026.3mf

☐ Reference for print orientations, supports, and slicer settings.



sidetrack-step-assembly-r11-20261026.step

☐ Editable STEP assembly. Includes hardware and extras.



Plunger & Trigger Parts

5 files



sidetrack_breech_r10.stl



sidetrack_plungerhead_r10.stl



sidetrack_springcap_r10.stl



sidetrack_sear_r10.stl



sidetrack_trigger_r11.stl



Hammer & Rotator Parts

6 files



sidetrack_rotator_r10.stl



sidetrack_hammercover_r10.stl



sidetrack_hammerleft_r10.stl



sidetrack_hammerright_r10.stl



sidetrack_rotatortransferpin_r10.stl



sidetrack_primebar_r10.stl



Cylinder & Latch Parts

6 files



sidetrack_cylinder_r10.stl



sidetrack_latchlever_r10.stl



sidetrack_l_latchpeg_r10.stl



sidetrack_r_latchpeg_r10.stl



sidetrack_latch_r10.stl



sidetrack_latchpin_r10.stl



Frame Parts

4 files



sidetrack_grip_r10.stl



sidetrack_triggerguard_r10.stl



sidetrack_frameright_r10.stl



sidetrack_frameleft_r10.stl



Muzzle Parts

6 files



sidetrack_muzzlecoreshort_r10.stl



sidetrack_muzzleshort_r10.stl

☐ Standard muzzle, fits a 60mm barrel.



sidetrack_muzzlecorelong_r10.stl



sidetrack_muzzlelong_r10.stl

☐ Fits 70mm barrels and slim accuracy devices such as the WhiskerPCAR by Thanhtacles.



sidetrack_cylinderpost_r10.stl



sidetrack_barrelseal_r10.stl



Extras

4 files



sidetrack_133mmspringsheath_r10.stl



sidetrack_115mmspringsheath_r10.stl



sidetrack_springspacer_r10.stl



sidetrack_plungertubecutter_r10.stl

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