Deterrence Dispensed Presents:

The Riptide Holster

For OEM GLOCK, 3D-Printed GLOCK-Style, and GLOCK-Based 80% Frames

Introduction

The Riptide Holster is a 3D-printed inside-the-waistband (IWB) appendix-carry holster that is compatible with GLOCK's Modular Optic System (MOS), is suppressor-height sight friendly, and can be built for approximately $8.00. The Riptide Holster was designed to be used with OEM GLOCK frames, most 3D-printed frames, and most 80% frames. There are three different holster sizes: Jib, Mainsail, and Spinnaker. While these holsters are primarily designed for GLOCK-style frames, you may discover that they are compatible with a wide variety of frames. This is especially true of the Mainsail Holster. The Riptide Holster began as a slightly modified Phil Phisher holster that accidentally and quickly snowballed into what it is today. A big thanks to Phil for laying the groundwork! https://odysee.com/@philphisher

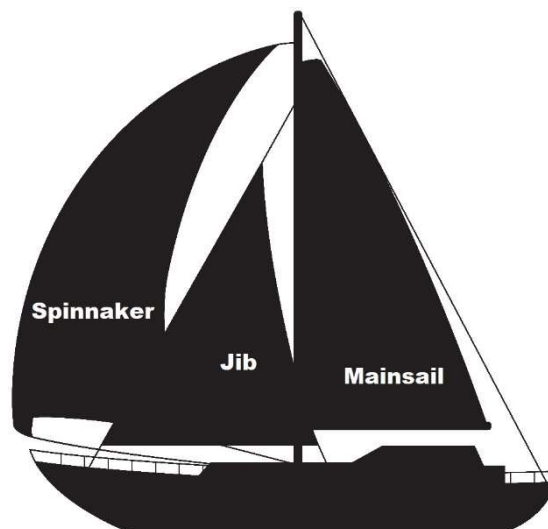***<u>A namesake inspired by sailing</u>***

The Jib
A jib is a smaller sail that typically accompanies a mainsail and increases the performance and stability of a sailboat. Embodying the agility of a jib sail, this holster is designed for single-stack GLOCK-style handguns. Its sleek and compact nature allows for easy maneuverability, providing a carry option that complements the lightweight and streamlined characteristics of smaller firearms.

The Mainsail
The mainsail is the primary sail on a sailboat. Drawing inspiration from the mainsail, this holster accommodates standard-sized GLOCK-style handguns. Just as the mainsail serves as the primary driving force of a sailboat, this holster acts as the central choice, offering versatility for a variety of frames, some of which are outside of the GLOCK family.

The Spinnaker
The spinnaker is a large sail that is used to maximize speed and power when sailing downwind. Mirroring the power and resilience of a spinnaker sail, this holster is tailored for large-frame GLOCK handguns.

Compatibility

The following and similar variants have been tested:

Jib
- OEM GLOCK Slimline 43, 43x, 48
- DD43.1, DD43X
- Doot Defense Sidekick 43x

Mainsail
- OEM GLOCK 17, 19, 26
- DD17.2, DD19.2, DD26.2
- BB17, BB19, BB26
- P80 PF940V, PF940C, PF940SC
- Strike 80
- PSA Dagger

Spinnaker
- OEM GLOCK 29, 20

Spinnaker XL
- OEM GLOCK 20L, 40

Hardware

- ¼" Chicago Bolts - Qty 5 (required) https://a.co/d/6XWBJCL

Hardware Specs:
- Phillips Screw Heads - 3/8" outside diameter and 1/4" long threaded section with an 8-32 thread
- Slotted Post Fasteners - 7/16" outside diameter, 13/64" diameter post, and 1/4" long threaded section
- Rubber Washers - 1/2" outside diameter

Upgraded Belt Clips (optional)

You can use any clips that have a 0.600" hole spacing. If you wish to use one of the best clips on the market, order the following DCC Mod 4 clip and hardware:

- DCC Mod 4 Clip - https://discreetcarryconcepts.com/Mod-4-Universal-Height-adjustable-HLR-Discreet-Gear-Clip%E2%84%A2-1-5-belt-p115977116

- Hardware for DCC Mod 4 Clip - https://a.co/d/8CCEWj9
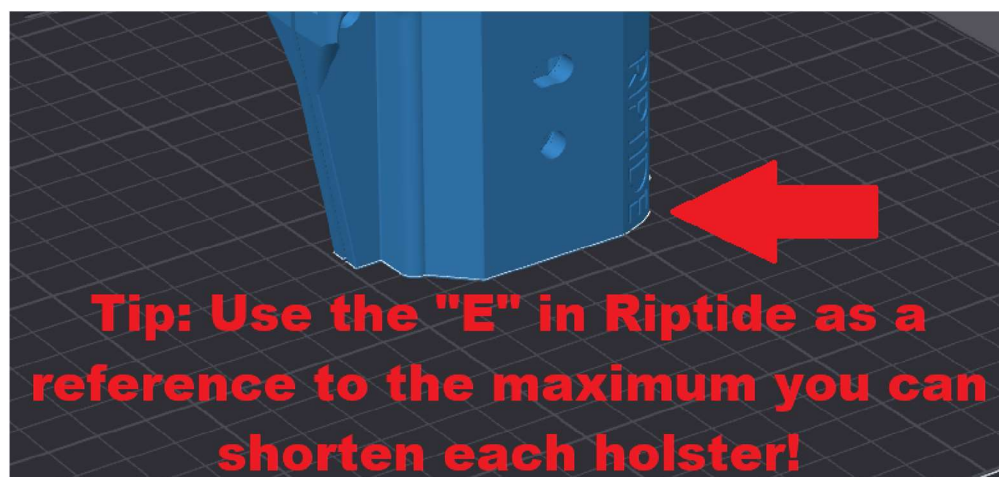
Holster Length and Concealment

You may wonder why there is only one holster length each for the Standard and Slim holsters. This is because The Riptide Holster is designed around the "keel principle." Learn about the "keel principle" here: https://www.phlsterholsters.com/phlster-the-keel-principle/

Here is another great resource for learning about concealment mechanics: https://www.phlsterholsters.com/the-basics-of-concealment-mechanics/

If you're a smaller person and find the holster is too long for you, you can shorten it by sinking the end of the holster below the bed in your slicer (This may require a setting change in your slicer to allow this). Please read about and understand concealment mechanics before shortening your holster. Shortening your holster should only be done as a last resort. You will need to use a belt sander or similar tool to round the bottom edges of the holster if you shorten it. You may also be required to shorten your clip, depending on your preferred ride-height.

Due to the length of the GLOCK 40 and 20L, there is a dedicated holster body: Spinnaker XL

Maximum Length of Shortening	
Spinnaker Holster with 20	Not recommended
Spinnaker Holster with 29	25mm
Spinnaker XL Holster with 40/20L	Not recommended
Mainsail Holster with 17	Not recommended
Mainsail Holster with 19	12mm
Mainsail Holster with 26	18mm
Jib Holster with 48	Not recommended
Jib Holster with 43/43x	20mm

Tip: Use the "E" in Riptide as a reference to the maximum you can shorten each holster!
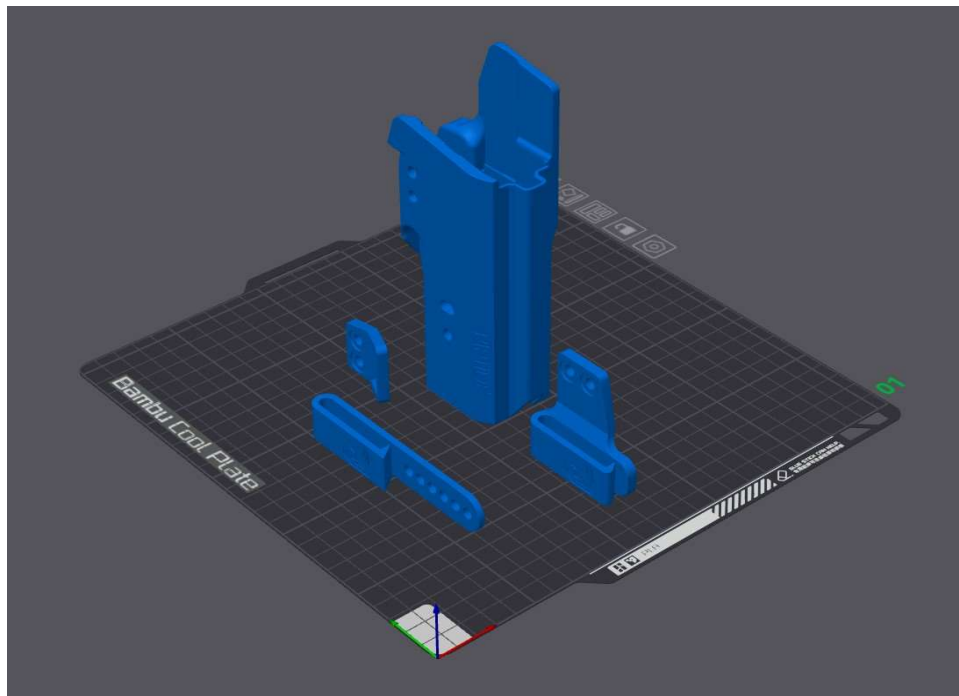
Printing Materials and Printing Instructions

First, an explanation of the parts: The holster body houses the firearm. The belt clip is a clip suitable for up to 1.5" wide belts. The claw is an arm that interacts with the back of your waistband to aid in tucking the end of the pistol grip. The claw clip functions similarly to the claw but also attaches to your waistband, providing additional support to keep the holster securely in position. Start by printing the holster body, clip, and claw. Once you have determined your preferred ride-height, print the corresponding claw clip if you desire a more rigid setup.

PLA, PLA Pro/PLA +, PETG, and PACF have all been successfully tested. The holster should not fail unless you intentionally try to bend the sweat guard.

The STLs have already been oriented properly, but orientation is mentioned and shown below just in case your slicer flips them around.

Holster
- Print standing upright
- Use enough walls that the area between the hardware is solid (0.4mm nozzle should require 6 walls)
- Infill should not be necessary, but at least use lightning infill to prevent top layers from falling in -0.16mm layer height is recommended for aesthetics, strength, and smoother drawing and holstering
- Supports should not be necessary
- Raft or brim just in case
- Follow your filament's recommended temperatures and speeds

Claw, Clip, and Claw Clip

- Print on their sides
- 0.12mm to 0.16mm layer height
- Solid: All walls with 0% infill, or 2 walls with 100% infill (it has been reported that 2 walls and 100% infill makes a stronger clip)
- Supports not necessary
- Raft or brim: Maybe. Depends on your printer. Use your best judgment.
- Follow your filament's recommended temperatures and speeds

Cleanup

Remove any rafts, brims, and support material and sand, file, or scrape away any sharp edges. You want to make sure anything that contacts your body is smooth, otherwise it will generate hot spots.

Assembly

1. Insert a rubber washer between the clamshell (Figure 1) and align it with the hole by using a punch, screwdriver, pick, pencil, etc. (Figure 2)

Figure 1

Figure 2

2. Insert the female Chicago screw into the clamshell hole from the side opposing the belt clip, and make sure that it is fully seated. The rubber washer should hold it in place. (Figure 3)

Figure 3

3. Install the corresponding screw and tighten it just beyond finger tight with a screwdriver. (Figure 4) Note: don't use an undersized or oversized screwdriver or you may strip out the screw head if you need to torque down the tension screw heavily during retention tuning.
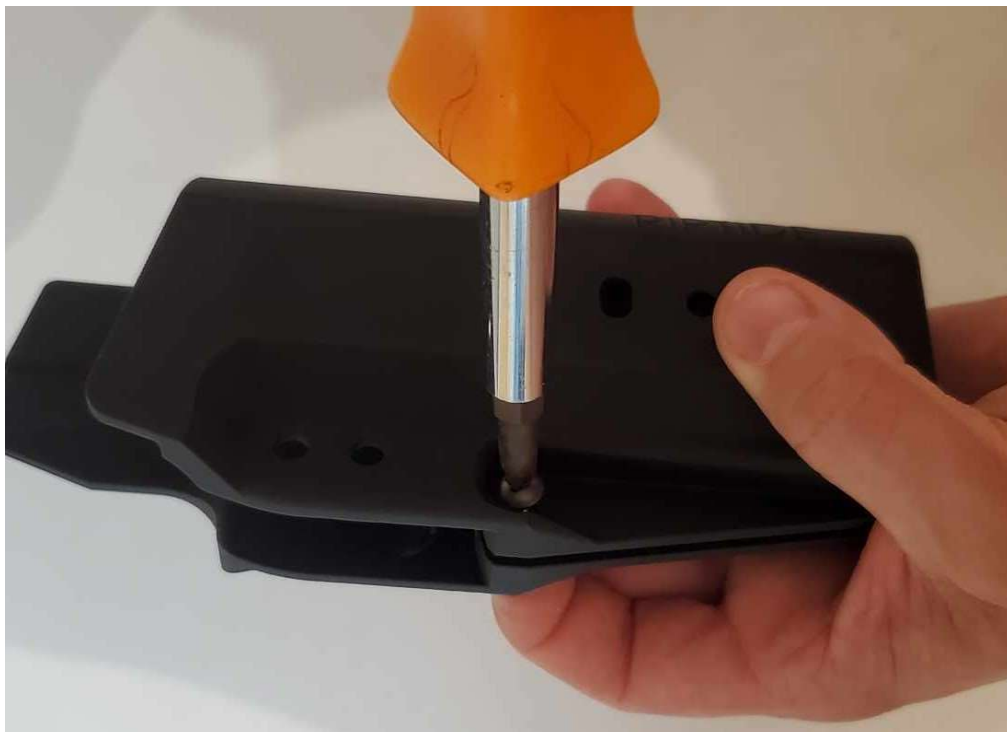

Figure 4

4. Insert a female Chicago screw into the round belt-clip hole nearest the bottom of the holster from inside the holster body. (Figures 5 & 6)

Figure 5

Figure 6

5. Put the belt clip in place (Figure 7) and finger tighten the corresponding screw.

Figure 7

6. Now, do the same thing for the second Chicago screw set. (Figure 8)

Figure 8

7. Align the belt clip straight up and down and tighten down both screws. (Figure 9)

Figure 9

8. Flip the holster over and insert the two female Chicago screws in to the two claw holes from the inside of the holster, then use your finger to hold them in place as you flip the holster back over. (Figures 10, 11, 12, & 13)

Figure 10

Figure 11
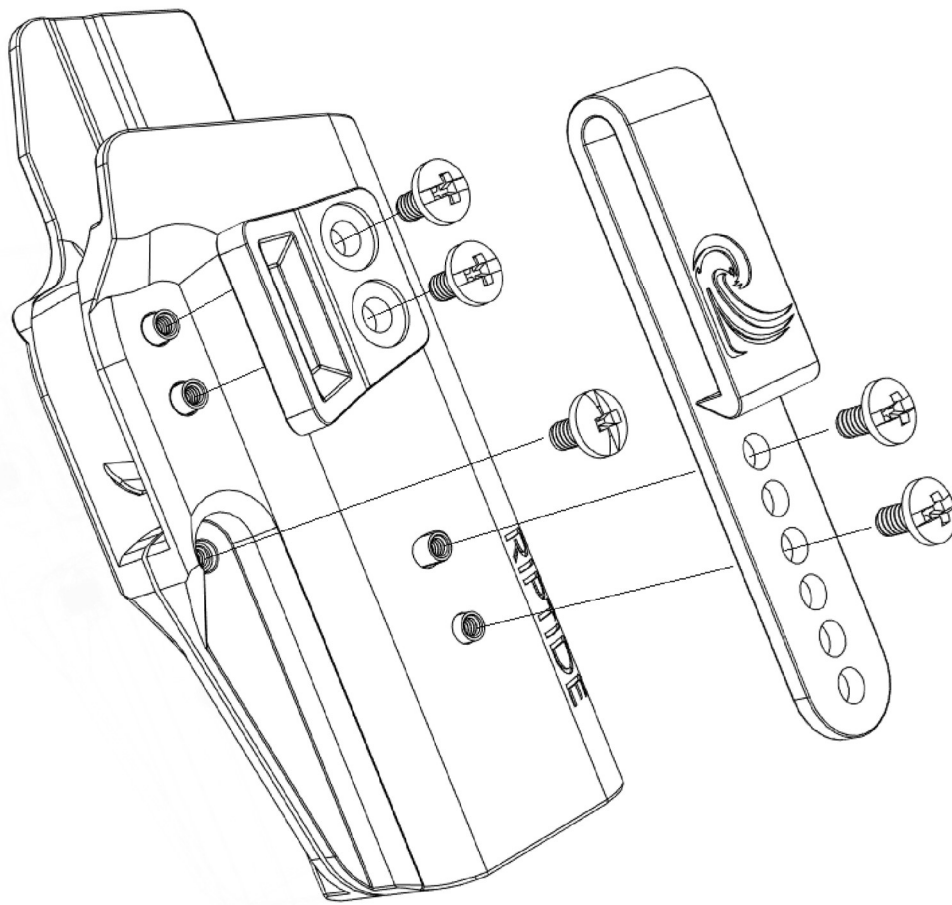

Figure 12

Figure 13

9. Set the claw in place, install and finger tighten both screws, straighten claw, then tighten both screws. (Figures 14 &15)

Figure 14

Figure 15

Assembly Diagram

Adjustment

<u>DO NOT ADJUST OR SET UP YOUR HOLSTER OR PRACTICE DRAWING AND HOLSTERING WITH A LOADED FIREARM</u>

There are two things to consider when adjusting your holster: proper firearm retention and comfort. Everyone will want something different in terms of retention, but most importantly, the firearm should remain securely in the holster at all times while still being able to be removed with minimal, but deliberate, effort. Tighten the clamshell screw a little at a time until you hear and feel a *click* when inserting the firearm into the holster. It should only require a little bit of force.

Once you've sorted out the insert retention, install your holster onto your belt and make any necessary adjustments to the holster clip angle and ride height. Please refer to the previously mentioned holster mechanics link to help find the sweet spot. There are both documentation and videos available on this subject. Take your time with this and try multiple configurations. Here is the link again for reference:
https://www.phlsterholsters.com/the-basics-of-concealment-mechanics/

Finally, practice drawing and holstering your firearm. You may realize that you need to adjust the retention again now that you are wearing the holster. The retention should never be loose enough that the firearm can fall out of the holster even when held or shaken upside down.

Troubleshooting

Problem	Solution
Firearm won't fit or too tight in holster	- Check compatibility - Loosen retention screw - Calibrate 3D-printer - Double stack rubber washers or print customer washer out of TPU (file included)
Firearm loose in holster (some movement is to be expected)	- Check compatibility - Tighten retention screw - Calibrate 3D-printer - Add soft side of Velcro or felt strips to inside of holster to fine tune fitment - Source thinner washer or print custom washer out of TPU (file included)
Chicago screws come loose over time	Apply Loctite 243 or similar thread lock to male screw threads
Firearm contacts hardware	- Use recommended hardware - Make sure hardware is fully seated

Acknowledgments

I would like to thank everyone in the beta room who helped with testing these holsters. Several of the members wore their Riptide Holsters every day for weeks and provided helpful feedback. I would also like to say thanks again to Phil Phisher for laying the groundwork.

-Mr. Riptide

Beta testers, in no particular order:

gerald katz	WEEGOL	Shadowhunter55
Dr. Death	Nextlvlroy	UberClay
TooAceForThis	Freeman1337	joseph smith
plcky_shdw	nguyenkvvn	potatoze
AZ Arizona	Froob	Nester
FMDA1776	fu.fu	Kenny.N
dogenado	clonewar	ChadwickTheCrab
mascool	RICECUTTA	creating reality
Liluzikit	Ryan Ratman	moftu76
Spicy Noodles	Gold Experience	digitalnimbus
Frank White	TheRustyMosin	wop man
Jacob nunya	TDKin3D	Redacted Kracka
Spot Studios	Mojo	evro99
DrNokitofa	GustavNedic	Winchester7mm
ender5plusnoob	Kat Tiny	vitalshotv2
sticky charlie		

RIPTIDE RAILS

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