

## AOEUI'S PLADDEX HOLSTER

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### Design Notes:

Hey y'all, Aoeui here! This product is a 3D printable firearm holster, made from PLA plastic instead of the more common holster plastic, Kydex. I noticed there are surprisingly few decent holsters for firearms on the market, especially for less common pistols, cheaper pistols, pistols with lights, and pistols with rmr sights. That being said, I decided to consult a great friend and excellent firearms trainer, Besaba, on the most important features of a firearm holster. As such, this design covers various important safety features which cheap marketplace products often overlook. These include:

1. Complete wrap of the firearm, including the same side as the body. Also wraps around the trigger guard, to prevent negligent discharge, even with a light installed.
2. Custom fit and retention, to allow for a draw that best suits the shooter.
3. Bungee cord assembly, to allow for expansion of the holster, which improves safety of complete wrap
4. Front-wrapping design, allowing firearms with additions like muzzle strike knurls to be worn comfortably.
5. IWB design without redundant retention, to allow for proper concealment and fast draws.

With these design features, you too can have a safe, effective, and affordable firearm holster that protects not just you, but everyone around you.

### INSTRUCTIONS

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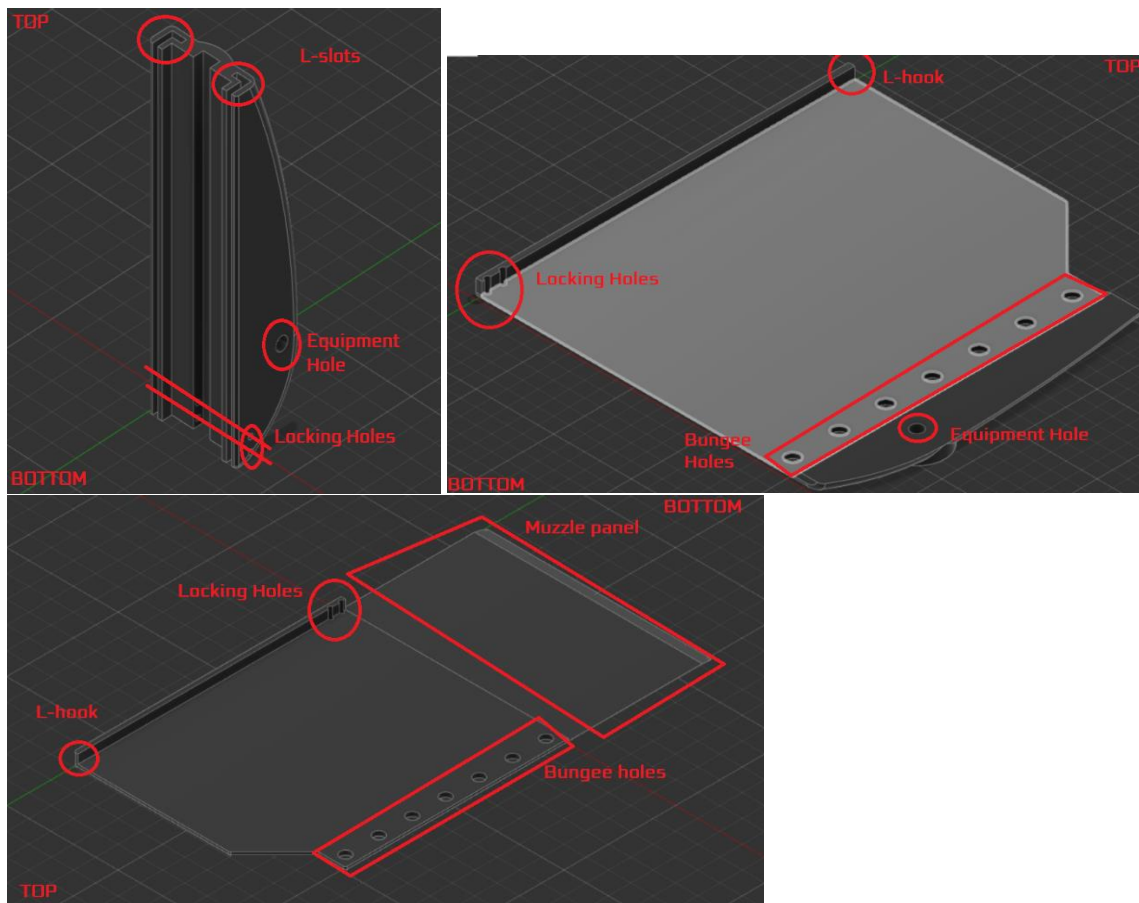
#### MATERIALS:

- Working FDM 3D printer, minimum bed dimensions 215mm\*215mm
- Polymaker Polylite PLA+ filament recommended for this build, but any half-decent PLA+ \*can\* work.
- 2 pieces of 3 inch 16ga metal, preferably steel, to lock the 3D printed parts into place after assembly
- 8-12 inches of Bungee cord, ideally with a diameter as close as possible to 5mm without going over.
- Blowdryer or Heat Gun
- 2 Pillows
- Soldering Iron to seal design completely (optional)
- Heat insulated gloves or an oven mitt for shaping contours
- Hammer or Mallet
- Block of wood or other hard sacrificial material to help assemble holster.
- Metal File
- Countertop

## PRINTING:

It is highly recommended to use Cura to slice the files, the most important thing being to use 100% infill and to use “exclusive” mode, which will improve ease of assembly. The side panels print flat, the main body should be printed standing. NOTE FOR LEFTIES: Print everything mirrored, follow the same instructions.

## ANATOMY OF PARTS:



## ASSEMBLY:

To insert panels, align the “L-hook” of the panel with the “L-slot” of the main body, place over a hard surface (not too hard or abrasive) and use the combination of the sacrificial material and hammer to strike the panel on top, inserting it into the main body. Do this until the locking holes align. Insert the outside panel first, which has a curve that matches the main body. This panel should be on the side that faces away from your body. Take the inside panel, which has a long, extra thin tail, called the Muzzle Panel, and insert this panel the same way, though after making some progress, you may need to use a countertop with the Muzzle Panel hanging off of the edge. After lining up all pieces, insert wire lengths into the locking holes, cut off excess wire, file down for comfort, and optionally solder the holes shut. Thread the bungee cord through the provided bungee holes. You now have a fully assembled the PLADEX holster.

## CUSTOM FITTING:

Unload firearm of all cartridges and magazines. Place firearm inside new holster with the slide against the main body, and the trigger well facing the bungee cord. Depending on the design, you may need to remove the front sight. Mark the firearm with something temporary, like graphite, at the point where you would like the panels to align with the firearm.

**IMPORTANT NOTE FOR 3D GUNNERS:** If the body of your firearm is 3D printed, I recommend temporarily removing it from the holster BEFORE applying heat.

Apply heat to both side panels of the PLADDEX Holster, until soft. Replace firearm if removed. Place firearm/holster assembly on top of pillow, then place another pillow on top. Lay on top of the pillows for 60-90 seconds, until assembly has cooled enough to touch. You should now have a roughly customized holster.

Spot heat in small areas to ensure a complete fit. Focus attention on completely covering the trigger guard on all sides, including a VERY SLIGHT dip into the trigger guard. If using a light, make certain the transition between the trigger guard and the light is contoured accurately. For added retention, one may wish to take a pencil eraser to make a slight divot inside of the trigger guard, but make sure it is in front of the trigger, never touching the trigger itself.

Additional effort on keeping the plastic around the bungee holes straight and in-line is helpful for comfort and consistency. After covering all desired contours of the firearm, apply heat to the muzzle panel at the end of the holster, and gently work it around the muzzle, matching all contours as accurately as possible. After fully cooled, solder in place if desired, (optional— recommended for comfort.)

YOU ARE NOW FINISHED, PLEASE ENJOY!

Aoeui Dhtns

Don't forget the 7 rules of Gun Safety:

1. Don't let the government take your guns.
2. Have fun.
3. Don't muzzle things you don't want to destroy.
4. Always treat your guns like they are loaded, even if you watched someone else check the gun.
5. Keep your booger hook off the bang switch until ready to shoot.
6. Keep in mind what you're muzzling and what is behind it.
7. Don't cut me off in traffic.

Jesus loves you, died on the cross for your sins, and was resurrected 3 days later.