

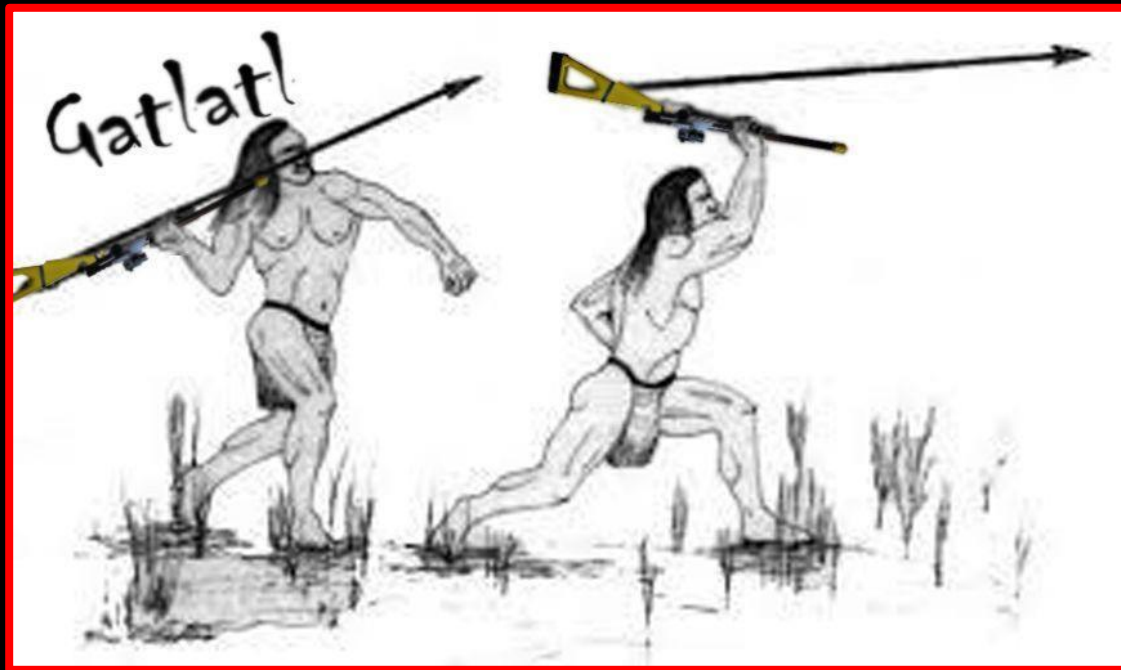
The Original

**VER 1.0**

March 2022

ZerOfux

# AWCY? Gatlat1



What is the  
AWCY? Gatlat1

What is needed to  
build and shoot  
Gatlat1

Modifying Arrows

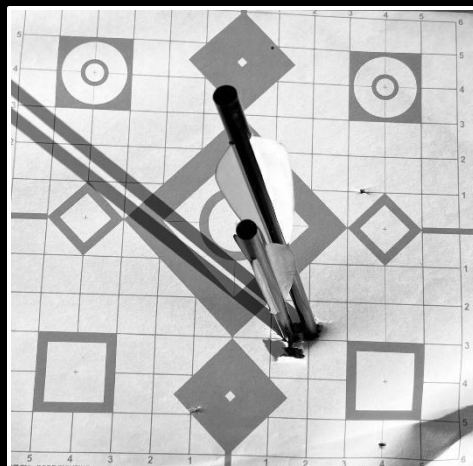
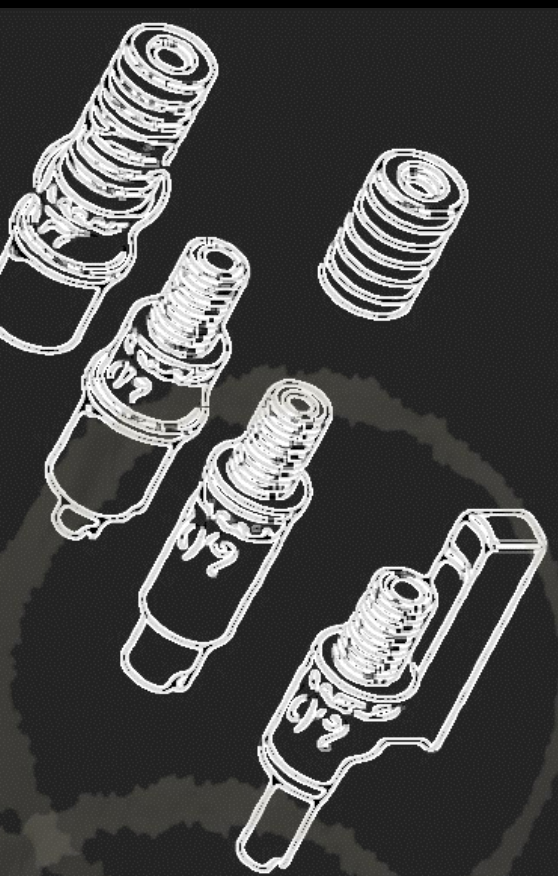
Wizzbangs

Added Bonus  
Feature - G22V3

Assembly Prep

Assembling the  
Gatlat1

Operation and  
Safety



Gatlatl Ver 1.0

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Gatlatl Ver 1.0

**The**

# **AWCY? Gatlatl**

## **AWCY? Zer0fux**

### **What is the AWCY? Gatlatl?**

**By AWCY Zer0fux**

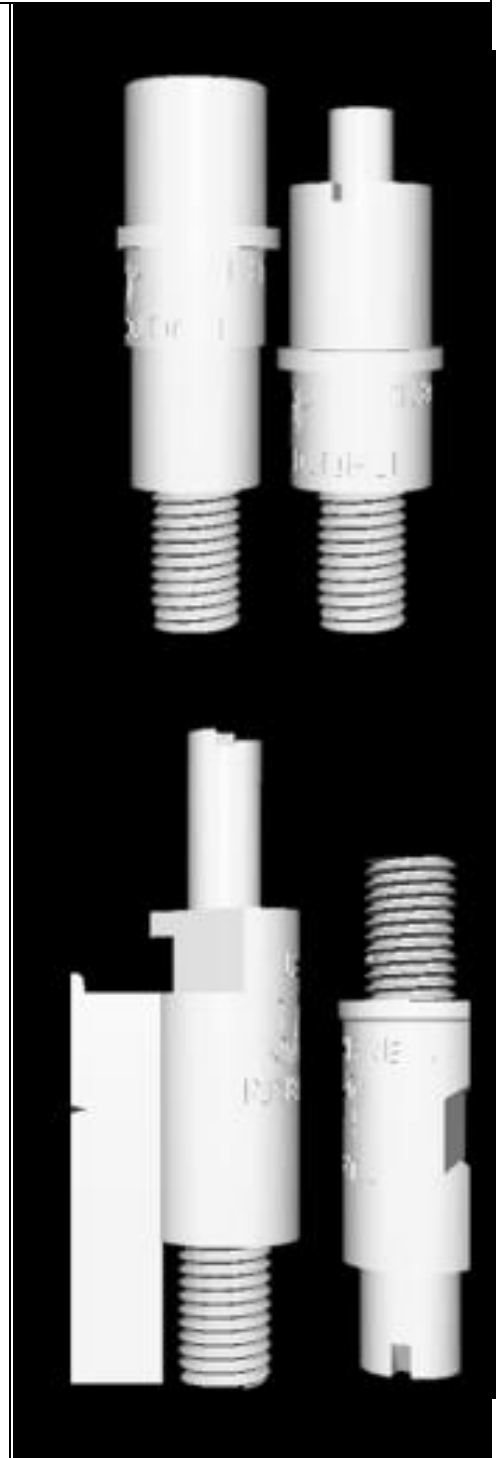
Many people are confused by the Gatlatl concept. This guide will separate facts from myth to see if you are up for the challenge.

The AWCY? Gatlatl is a remix of the Proto-barrel by Proto to facilitate shooting arrows from, but not limited to, the following platforms:

- CMMG Dedicated .22LR AR (AWCY? Tube or AWCY? scARpion)
- CMMG Conversion .22LR AR (AWCY? Tube or AWCY? scARpion)
- Ruger 10/22 Fixed/Standard Barrel (Ruger 10-22, LX-22, Mossy G22v3, Fixed Barrel Galileo)
- Ruger 10/22 Takedown (AWCY? Bento Box, Ruger OEM Takedown, Galileo Takedown)

All four breech adapters use a common threaded adapter plug. A non-permanent muzzle cap is provided to aid in assembly and storage. The Gatlatl is threaded for the required frequent cleaning.

This guide and the Gatlatl files are for educational purposes only. Any use or building of firearms has a potential for bodily harm and/or death. Use at your own risk. Research and follow your local laws.



# What do you need to build a Gatlatl?

- Carbon Fiber Tube-25mmx23mmx420mm  
<https://www.amazon.com/gp/product/B07V6TRBB1>
- 22LR Barrel Liner – The .305 liner from Numrich provides the best fit but is more prone to being bent. The Redmans liner from Brownells will require additional machining or sanding to be brought down to a usable diameter. This can be accomplished by spinning the liner in a drill and sanding.
- Slow set epoxy (Do not use quick set)
- .22 chamber reamer or #1 wire drill bit. If you are using a CMMG conversion, replace with a 1/4” drill bit.
- Hacksaw, sandpaper, masking tape, tape measure
- Optional 5/8”-11 Thread chaser or tap and die (die will not fit on breech adapter for Ruger Takedown variant). A 5/8-11 nut and bolt can be used, as well.

# What do you need to shoot a Gatlatl?

## 16" Crossbow Bolts

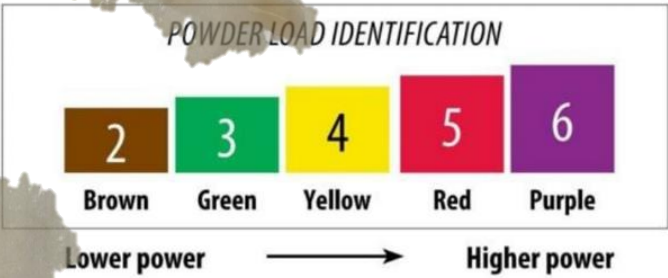
There are two known options for arrows.

Amazon Bolts ([Amazon Link](#))  
This option is cheaper but requires modifications (see next section).

Traditions Firebolt  
This option is more expensive, but they are purpose-built to be shot off a barrel liner.

## .22 Construction blanks

In early testing, it was noted that straight wall blanks extract better than tapered blanks. Yellow, red, and purple construction blanks have been tested in the Gatlatl.



# Modifying Amazon Arrows

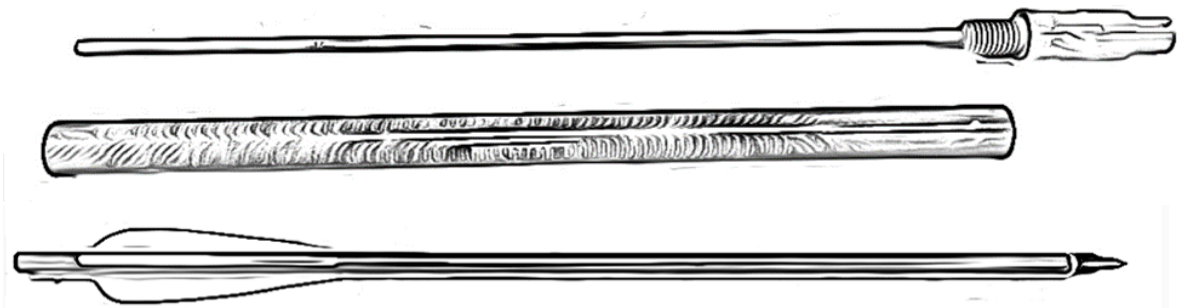
To use the cheaper Amazon arrow in the Gatlatl, you must modify both ends.

## Noc

Remove the noc by applying heat from a torch and removing it with a pair of pliers. Remove any burrs or remaining glue to ensure the arrows will slide over the barrel liner without obstruction.

## Threaded Ferrule

From the factory, the threaded ferrules are attached with superglue. Testers discovered when using a purple ramset blank, the arrowhead and ferrule will take flight leaving the arrow shaft behind. To remedy this issue, remove the threaded ferrule by heating the ferrule with a torch to melt the superglue and pull the ferrule out with a pair of pliers. After cleaning the ferrule and arrow shaft, epoxy the ferrule into the arrow shaft.





## Wizzbang Arrowheads V1

Wizzbang arrowheads are an optional accessory for the Gatlatl. Additional files can be found within the download file to create these arrowheads. Builders should proceed with caution if they decide to use these arrowheads. I have determined that this is not a Destructive Device but you should do your own research and come to that conclusion for yourself. I am not responsible for any injuries that may occur from using this product.

You will need:

- 1x8/32 Screw (or probably any similar length with the same threads) to attach the Wizzbang to the arrow. Do not glue the Wizzbang to the arrow!!

- Picture Hanging Nail, Friction fit in nose cone hole. Insert about halfway in using a little force.

- 209 Primer (For boom)

- Black Powder (For Bigger Boom)

Please for the love of all things holy do not use anything other than black powder. Dangerous things could happen!!!

If you can't figure out how this thing works then Please Don't Build Them.

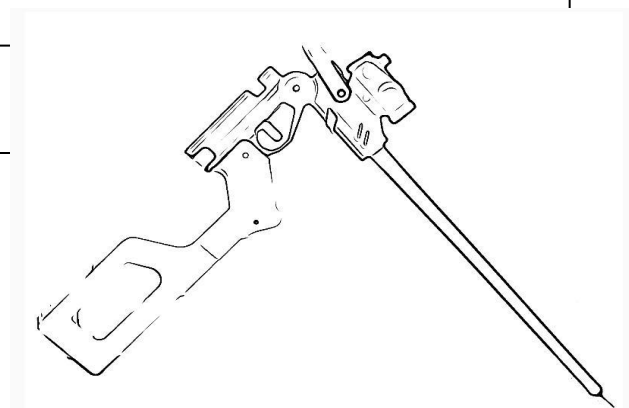
When working with BP Explosives start at low levels and work up.

Designed by Fish Fingers.

## ADDED BONUS FEATURE!!

G22v3 Grizzly

[Link to files](#)



## Assembly Prep for Building the Gatlatl

Each platform requires 3 printed parts including the breech adapter for your host-specific platform, the female breech adapter plug, and a temporary muzzle cap. Due to the threads, it is suggested to use .20 or higher layer height for strength. The STL files are provided in the correct printing orientation. The muzzle cap should not be permanently attached. It is provided for assembly and storage.

Thread prep - If you do not have the suggested tap and die or you are building the Ruger Takedown, you will have to use the breech adapter plug to clear the printed threads. This can be accomplished by twisting until you feel slight resistance, turn back a half turn, and turn till resistance. In five to ten minutes, you will clear the threads where they will work smoothly.

There are other options to clean the printed threads. Place a 5/8"-11 bolt in your vise. Start the breech adapter plug onto the bolt. Heat the bolt and thread the threaded breech adapter plug onto the bolt. Clean the breech adapter threads with a 5/8"-11 nut.

Barrel liner prep - Cut the barrel liner to your desired length. The actual length of the liner is dependent on the type of breech adapter being used. The liner should extend past the end of the breech plug by approximately 16 inches. This measurement is flexible and can be modified to fit your project. For AR22 Conversion bolts, use a 1/4" drill bit to drill into the liner approximately 1/4" deep. This allows the liner to slip over the chamber adapter and ensures a gas tight seal. Use a chamfering tool to clean the end of the liner. For all

other breech adapters, use a barrel chamber reamer or #1 wire drill bit to chamber the barrel. Rough up the barrel liner with sandpaper followed by hand files to ensure proper adhesion to the breech adapter.

Carbon fiber tube prep - Determine the length desired for the carbon fiber tube. The tube is only needed to protect the liner. Cutting the carbon fiber tube is optional depending on your application. The installed liner should extend past the end of the carbon fiber tube. Wrap masking tape around the area you intend to cut and cut with a hacksaw. Sand and file the carbon fiber tube straight. Wear proper PPE to avoid inhaling carbon fiber dust.

Dry fit parts before epoxying them in place. This includes test fitting arrows over the barrel liner. The arrows should smoothly slide down the liner without requiring force. If your arrows have been properly cleaned/deburred and they are still too tight, chuck the liner on a drill and turn it down with sandpaper.



## Assembling the Gatlatl

Note: This process should be completed in one session.

1. Thread the breech plug completely onto the breech adapter.
2. Epoxy the roughed-up barrel liner into the breech adapter. Make sure the liner is placed at the correct depth in the adapter. Plug the barrel liner to keep epoxy from getting into the barrel liner. Note: Do not epoxy the liner to the breech plug.
3. Epoxy carbon fiber tube onto breech plug. Make sure you do not epoxy the breech plug to the breech adapter.
4. Use the muzzle cap to ensure the barrel liner is centered at the muzzle end of the carbon fiber tube. The cap takes the weight off the liner and allows the liner to dry centered in the carbon fiber tube. Do not epoxy the plug. The muzzle cap is only used during assembly and storage. The muzzle cap should not be permanently installed.
5. Ensure all parts are aligned properly.

**Allow the epoxy to dry for 24 hours before use.**

## Operation and Safety

The arrows will ride the length of the barrel liner when propelled by the construction blanks. The carbon fiber tube is not crucial to firing of the arrow, but it protects the liner from getting bent or damaged.

The construction blanks are very dirty and create a large amount of powder/carbon fouling. The Gatlatl is threaded to allow for easy cleaning of the exterior of the barrel liner. Clean the barrel liner exterior every twelve shots. Clean the inside of your arrows between shots with a bore brush. **If the arrow gets stuck on the liner, it could grenade.**





Figure 1: Assembled Gatlatl



Figure 2: Gatlatl disassembled



Figure 3: Muzzle  
End



Figure 4: Temporary  
Muzzle Cap

If you have any questions or concerns with this project, please go to:

[https://matrix.to/#/#AWCY\\_Gatlatl\\_open\\_beta:matrix.org](https://matrix.to/#/#AWCY_Gatlatl_open_beta:matrix.org)

