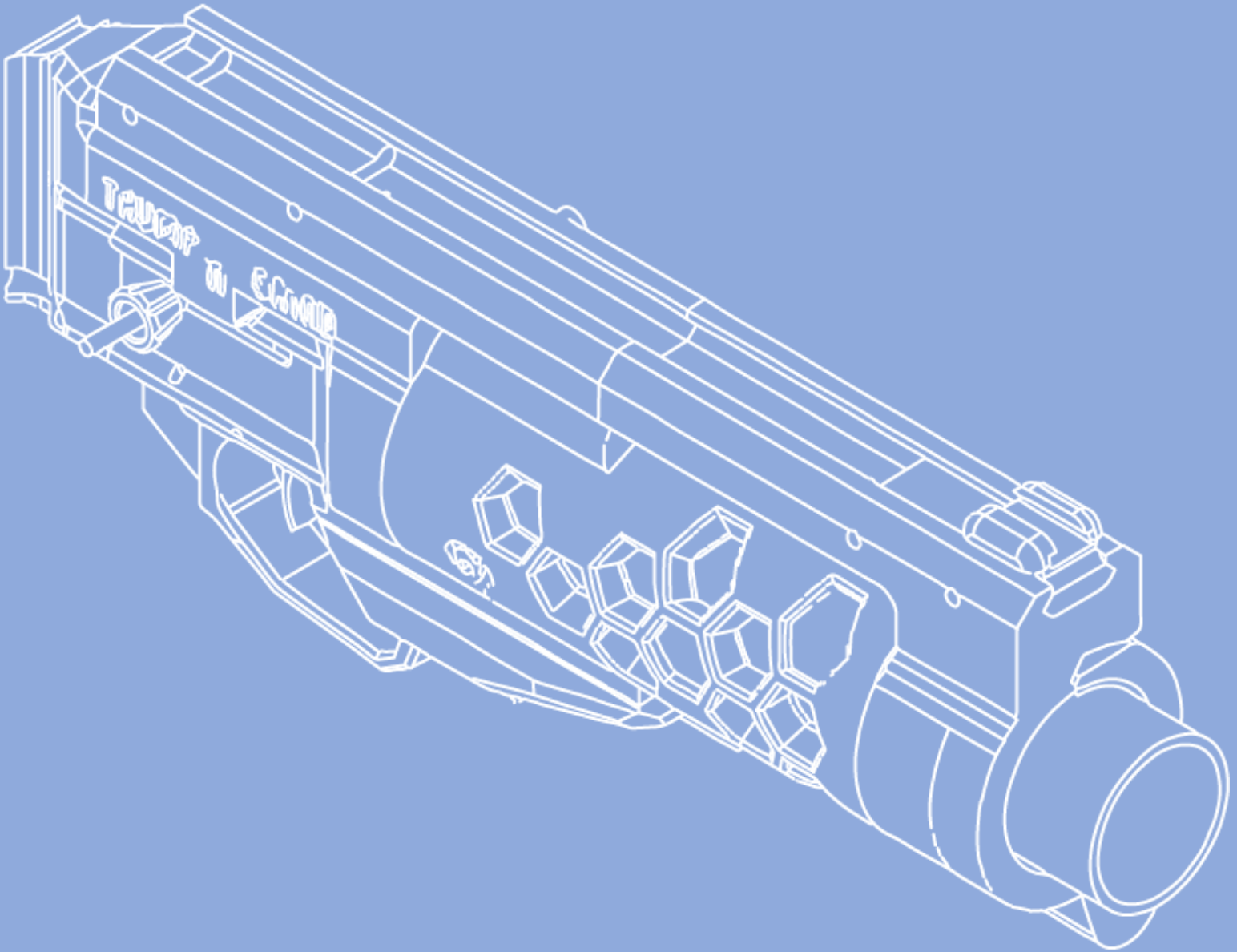

Thump n' Grind



Build Guide and User's Manual

AWCY?



Thump n' Grind

Is brought to you by the minds of

AWCY?

REMINDER



We are **not** responsible for your actions or stupidity.

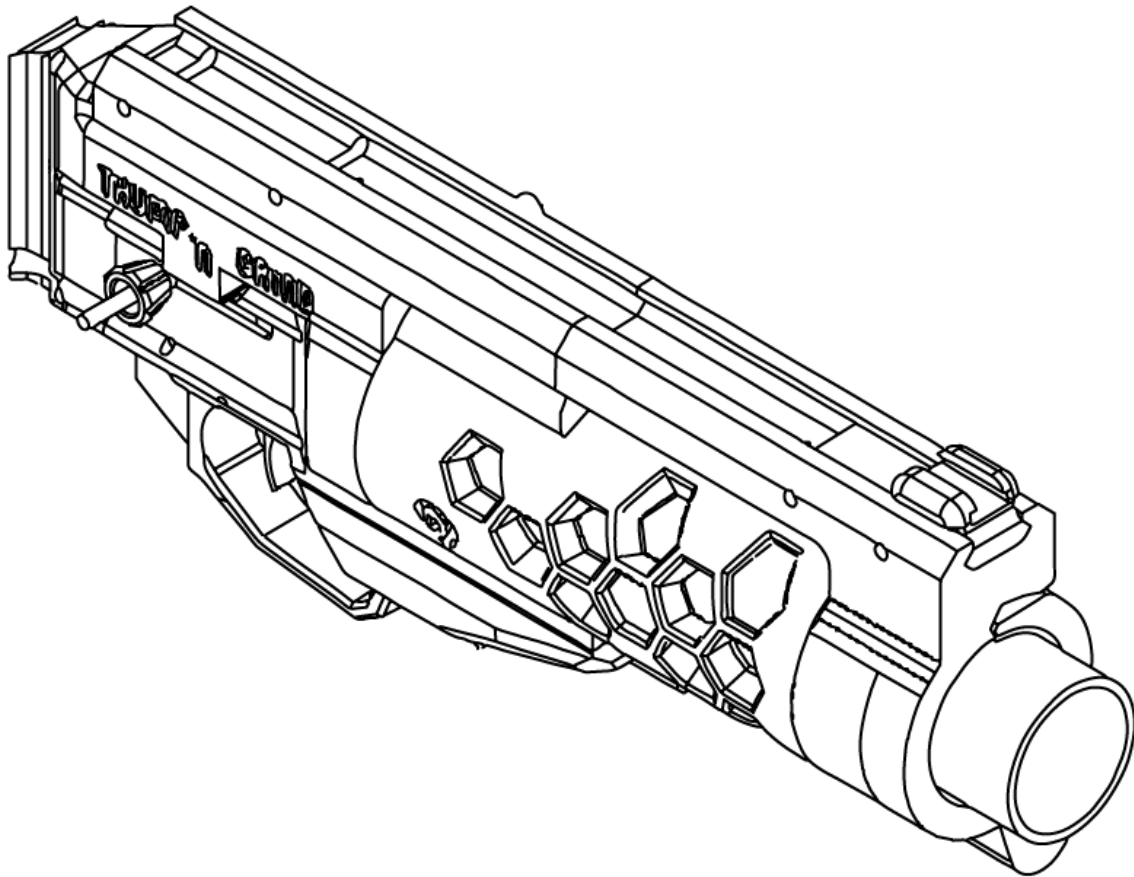


This device is for emergency communication purposes only



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➤ Lower Receiver	12
➤ Striker Assembly	21
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PRINTS AND PARTS

- Print parts according to the given parameters in the table below. Part designators are referenced in assembly diagrams later in the manual to aid in construction

Part No.	File Name	Material	Infill	Walls	Type	Assembly
A	Fence Post Barrel Extractor.stl	PLA+	≥ 95%	≥ 5	PRINT	Barrel Assembly
B	Fence Post Barrel Retainer.stl	PLA+	≥ 95%	≥ 5	PRINT	Barrel Assembly
C	Barrel Release Latch.stl	PLA+	≥ 95%	≥ 5	PRINT	Lower Receiver
D	Barrel Release Latch Handle.stl	PLA+	≥ 95%	≥ 5	PRINT	Lower Receiver
E	Front Lower.stl	PLA+	≥ 95%	≥ 5	PRINT	Lower Receiver
F	Rear Lower.stl	PLA+	≥ 95%	≥ 5	PRINT	Lower Receiver
G	Charging Knobs for 60mm Screw.stl	PLA+	≥ 95%	≥ 5	PRINT	Lower Receiver
H1	Endcap (Low Profile Underbarrel).stl	PLA+	≥ 95%	≥ 5	PRINT	End Cap
H2	Endcap (Modular).stl	PLA+	≥ 95%	≥ 5	PRINT	End Cap
I	High Speed Low Drag Trigger.stl	PLA+	≥ 95%	≥ 5	PRINT	Striker
J	Hefty Striker	PLA+	≥ 95%	≥ 5	PRINT	Striker
K	1913 Hinge Adapter.stl	PLA+	≥ 95%	≥ 5	PRINT	Folding Stock
L	Standalone stock buttpad.stl	TPU	≥ 30%	≥ 3	PRINT	Folding Stock
M	Standalone stock cheekrest.stl	PLA+	≥ 95%	≥ 5	PRINT	Folding Stock
N	Standalone stock folding button.stl	PLA+	≥ 95%	≥ 5	PRINT	Folding Stock
O	Standalone stock insert.stl	PLA+	≥ 95%	≥ 5	PRINT	Folding Stock
P	Evo Style Stock Lever.stl	PLA+	≥ 95%	≥ 5	PRINT	Folding Stock

- We have also provided some tools that you may choose to print to help improve the construction quality of your TnG.

Part No.	File Name	Material	Infill	Walls	Type	Assembly
X	Barrel Cutting Jig.stl	PLA+	25%	3	PRINT	Tool
Y	Sanding Drum.stl	PLA+	75%	4	PRINT	Tool

- Some tools are also required:
 - Allen Key Set
 - Drill w/ 1/4" Socket adapter
 - Sandpaper
 - JB Weld, Gorilla Glue, OR Epoxy
 - Rubber Mallet
 - Soldering Iron
 - Xacto Knife

PRINTS AND PARTS

- Below is an itemized list of all the hardware required for this build. Parts can be sourced from a variety of vendors. We prefer Amazon and McMaster-Carr if you want to build your own. An alternative is to buy a parts kit from a seller. Currently www.pnwtacticalsupply.com is the only known source of complete hardware part kits.



M5 x 60mm 12.9 Alloy Steel Hex Socket Head Cap Screws Bolt Black 10pcs

Sold by: [uxcell](#) | Product question? Ask Seller

\$7.49

Condition: New



Prime-Line 9178369 Socket Head Cap Screws, Hex (Allen) Drive, 1/4 in-28 X 3/4 in, Black Oxide Coated Steel, 10-Pack

Sold by: Amazon.com Services LLC

\$3.99

Condition: New



uxcell Compression Spring, 304 Stainless Steel, 6mm OD, 0.8mm Wire Size, 20mm Free Length, Silver Tone, 10Pcs

Sold by: [uxcell](#) | Product question? Ask Seller

\$8.99

Condition: New



M4x40 Stainless Steel Hex Head Cap Socket Screws 10pcs Silver Tone

Sold by: [uxcell](#) | Product question? Ask Seller

\$6.49

Condition: New



Prime-Line 9087834 Finished Hex Nuts, Class 8 Metric, M6-1.0, Zinc Plated Steel, 25-Pack

Sold by: Amazon.com Services LLC

\$3.72

Condition: New



uxcell M6x40mm Machine Screws Hex Socket Round Head Screw 304 Stainless Steel Fasteners Bolts 10pcs

Sold by: [uxcell](#) | Product question? Ask Seller

\$8.49

Condition: New



uxcell Compression Spring, 304 Stainless Steel, 6mm OD, 0.6mm Wire Size, 305mm Free Length, Silver Tone

Sold by: [uxcell](#) | Product question? Ask Seller

\$3.06

Condition: New



uxcell Straight Retaining 3mm x 30mm 304 Stainless Steel Dowel Pins Rod Fastener Elements 10 Pcs



uxcell 4mm x 200mm 304 Stainless Steel Solid Round Rod for DIY Craft - 2pcs



uxcell 6mm x 200mm 304 Stainless Steel Solid Round Rod for DIY Craft - 2pcs



TOPPROS 200mm x 3mm Stainless Steel Solid Round Bar Pack of 20



uxcell M3x22mm 316 Stainless Steel Metric Hex Socket Head Cap Screws Bolts 20 Pcs

Sold by: [uxcell](#) | Product question? Ask Seller

\$6.22

Condition: New



\$23.98

★★★★★ 52

1-5/8-in x 1-5/8-in W x 8-ft H Silver Galvanized Steel Line Fence Post



PSA AR15 Trigger Spring - 1337

\$1.99

ADD TO CART

AWCY?

PRINTS AND PARTS

- Below is an itemized list of all the hardware required for this build. Parts can be sourced from a variety of vendors. We prefer Amazon and McMaster-Carr if you want to build your own. An alternative is to buy a parts kit from a seller. Currently www.pnwtacticalsupply.com is the only known source of complete hardware part kits.



4 Pcs 5mm Brass Rod Brass Round Rod Brass Round Stock Brass Solid Round Rod Lathe Bar Stock 5MM/13/ 64Inch in Diameter 12 Inches in Length,C27400 (4 PCS)

\$10.59

In Stock

✓prime & FREE Returns

Delete | Move to cart | Move to Wish List | Compare with similar items



J-B Weld 50133 Plastic Bonder Structural Adhesive Syringe - Tan - 25 ml

\$5.77

In stock soon.

✓prime & FREE Returns

Delete | Move to cart | Move to Wish List | Compare with similar items



TIG Welding Tungsten Electrode Pure Tungsten 3/32" x 7" (Green, EWP) 10-pk YESWELDER

\$18.99

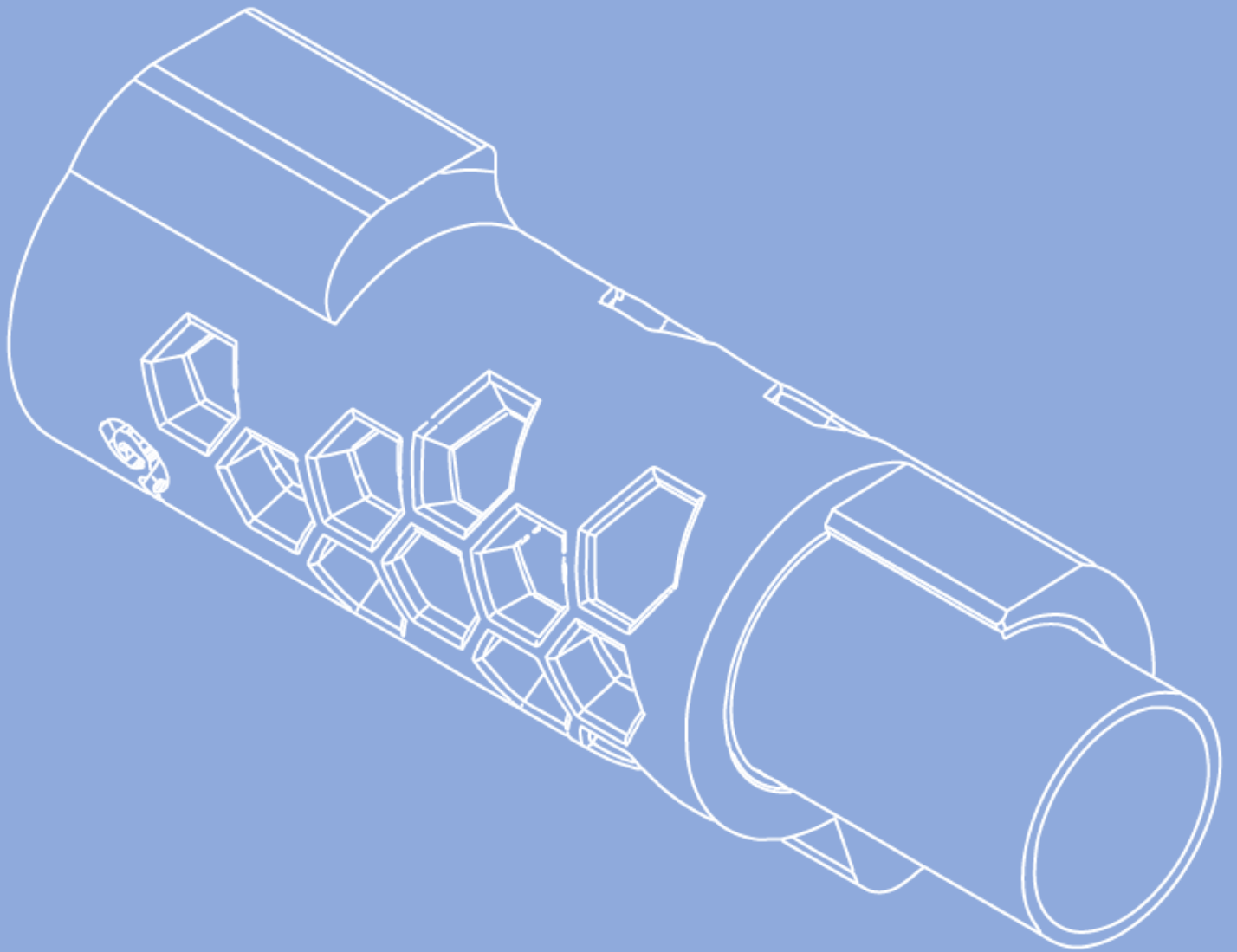
In Stock

✓prime & FREE Returns

Size: 3/32"

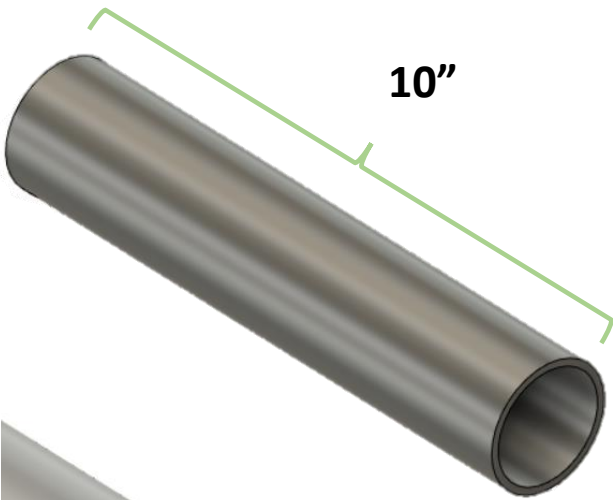
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Barrel Assembly

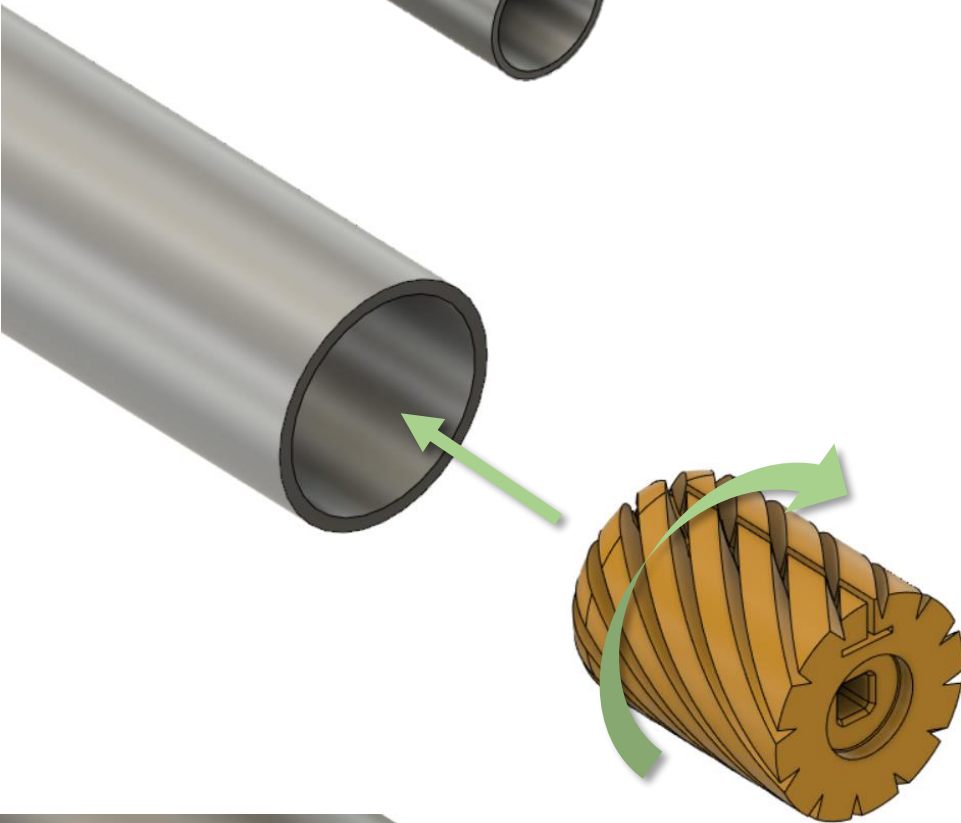


BARREL ASSEMBLY

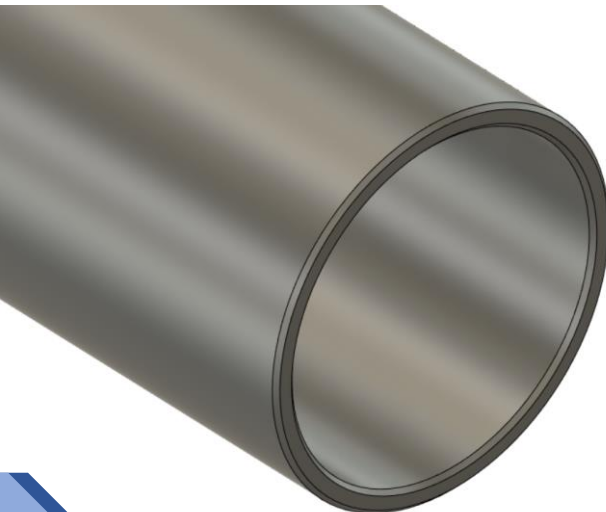
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2.



3.

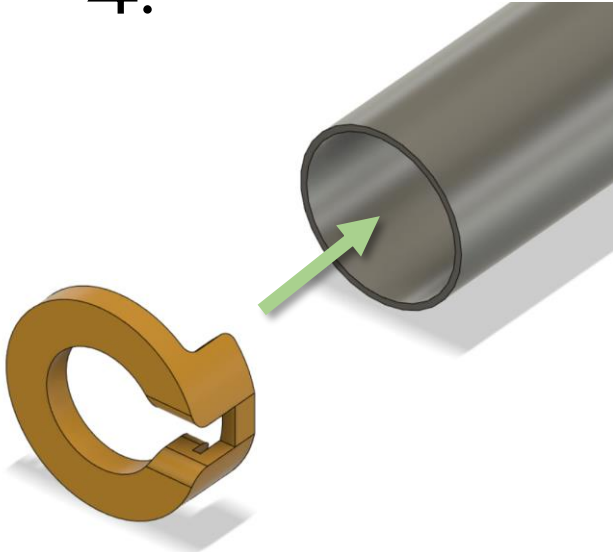


AWCY?

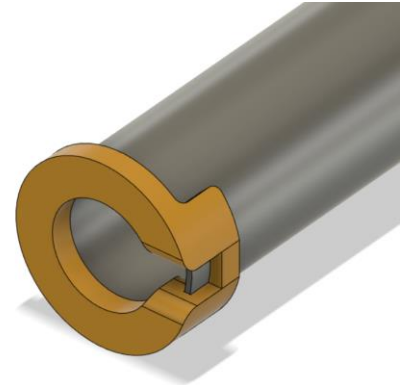
BARREL ASSEMBLY

- Before insertion into the barrel retainer, a slot must be cut into one side of the barrel. This will provide clearance to allow for proper functioning of the extractor.
 - **IMPORTANT:** Extractor and springs must be installed **before** the barrel section is installed!
- Print the jig included in your part files to aid in cutting a proper sized slot.

4.

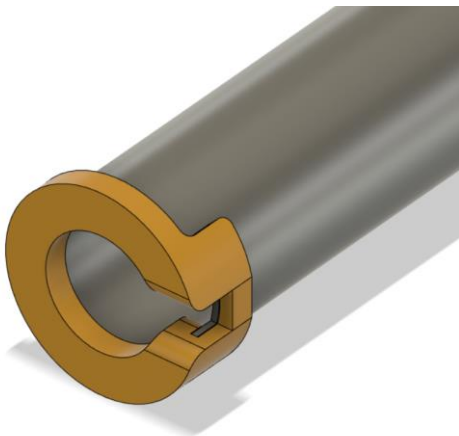


5.

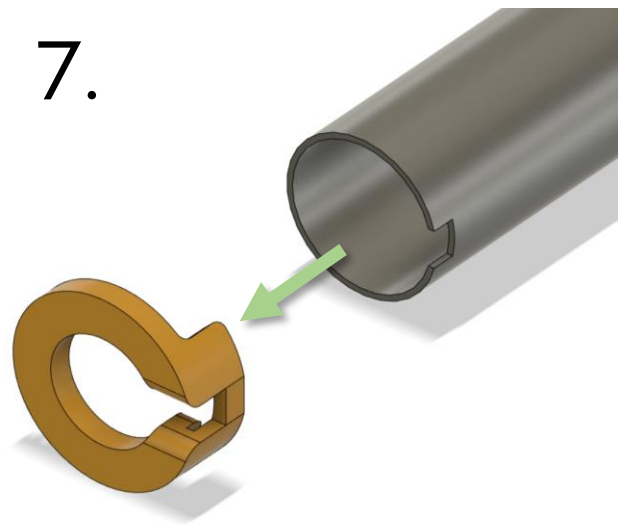


- You can use the jog as a cutting guide or as a stencil to mark the pipe with a permanent marker. It is recommended to use a Dremel or hand saw to create the slot.
- File or sand off any burrs that may have been formed during the cutting process.

6.



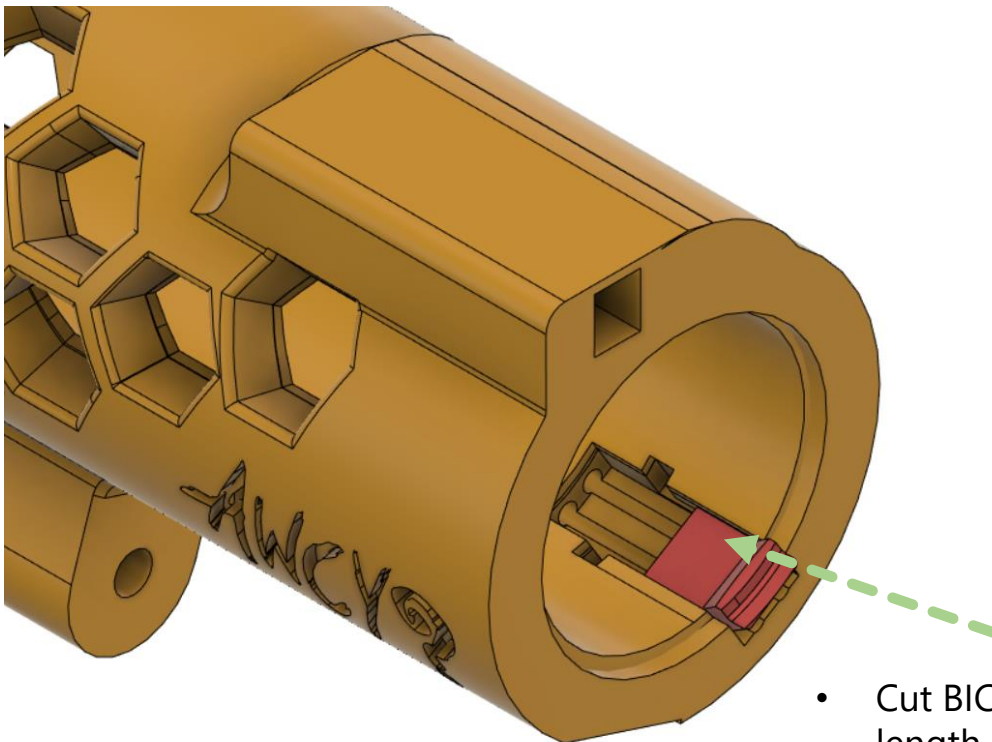
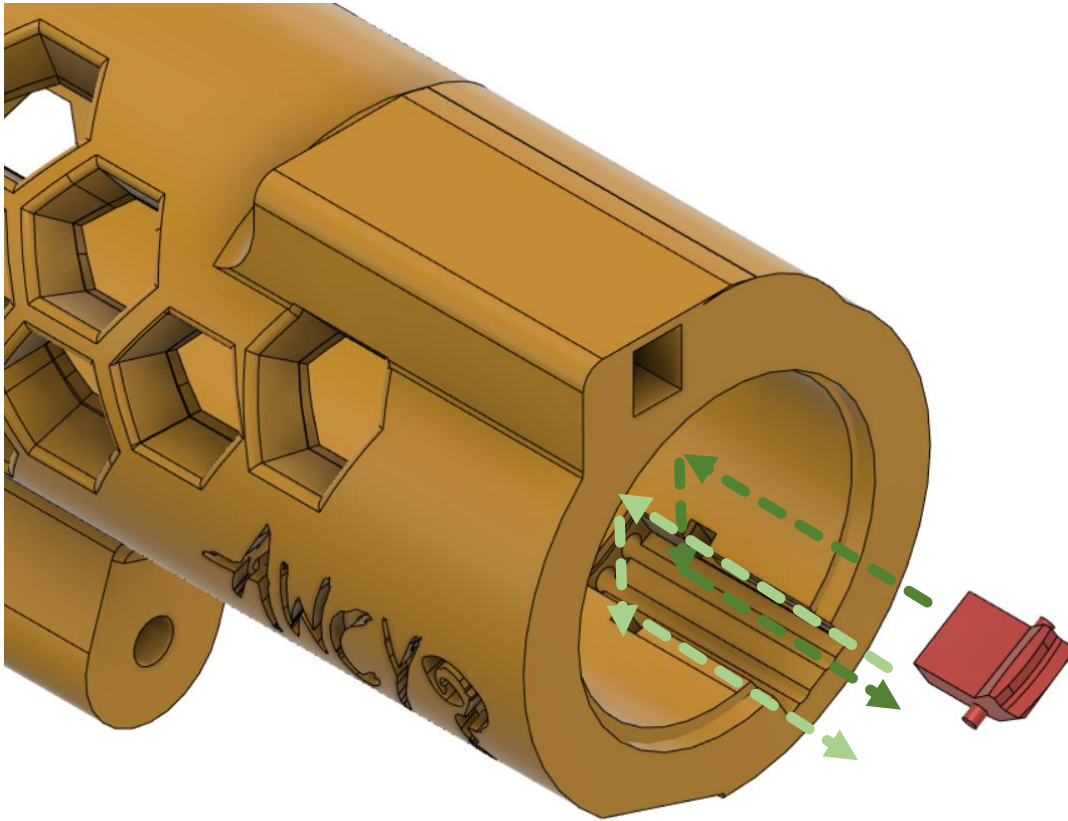
7.



- Congratulations! The barrel tube is complete. Set aside and proceed to the next step

BARREL ASSEMBLY

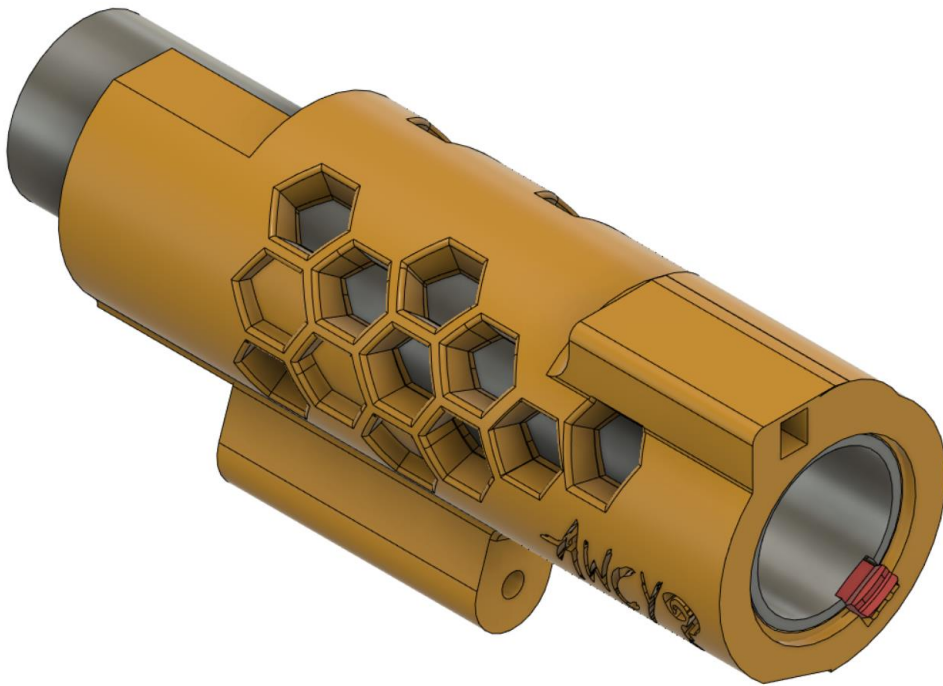
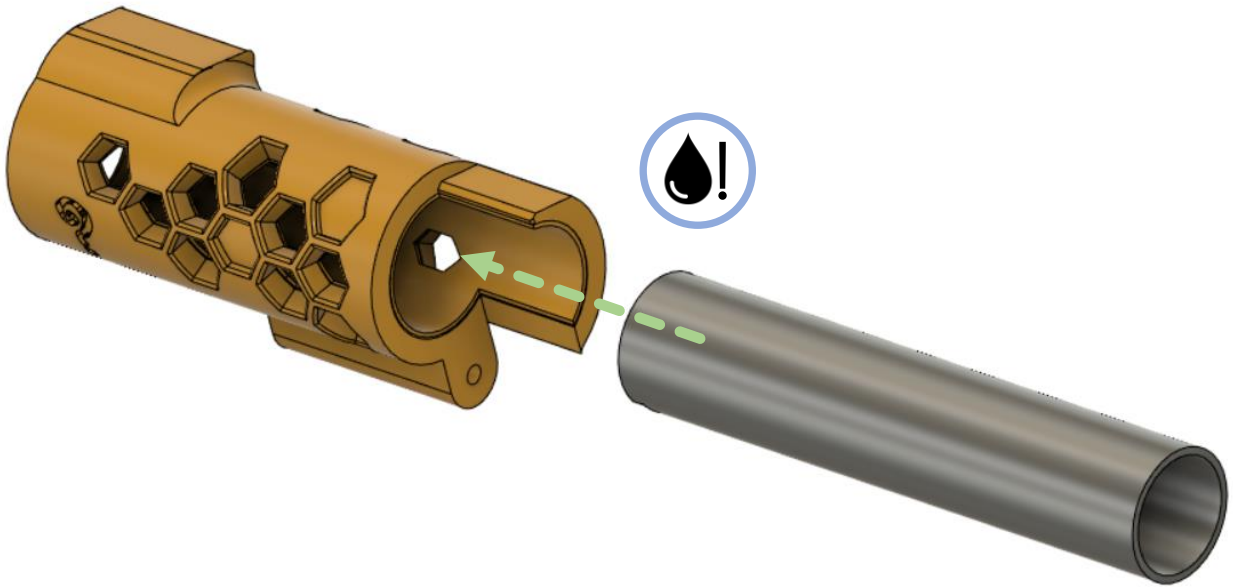
8.



- Cut BIC springs to 3/5th length and place into the extractor holes

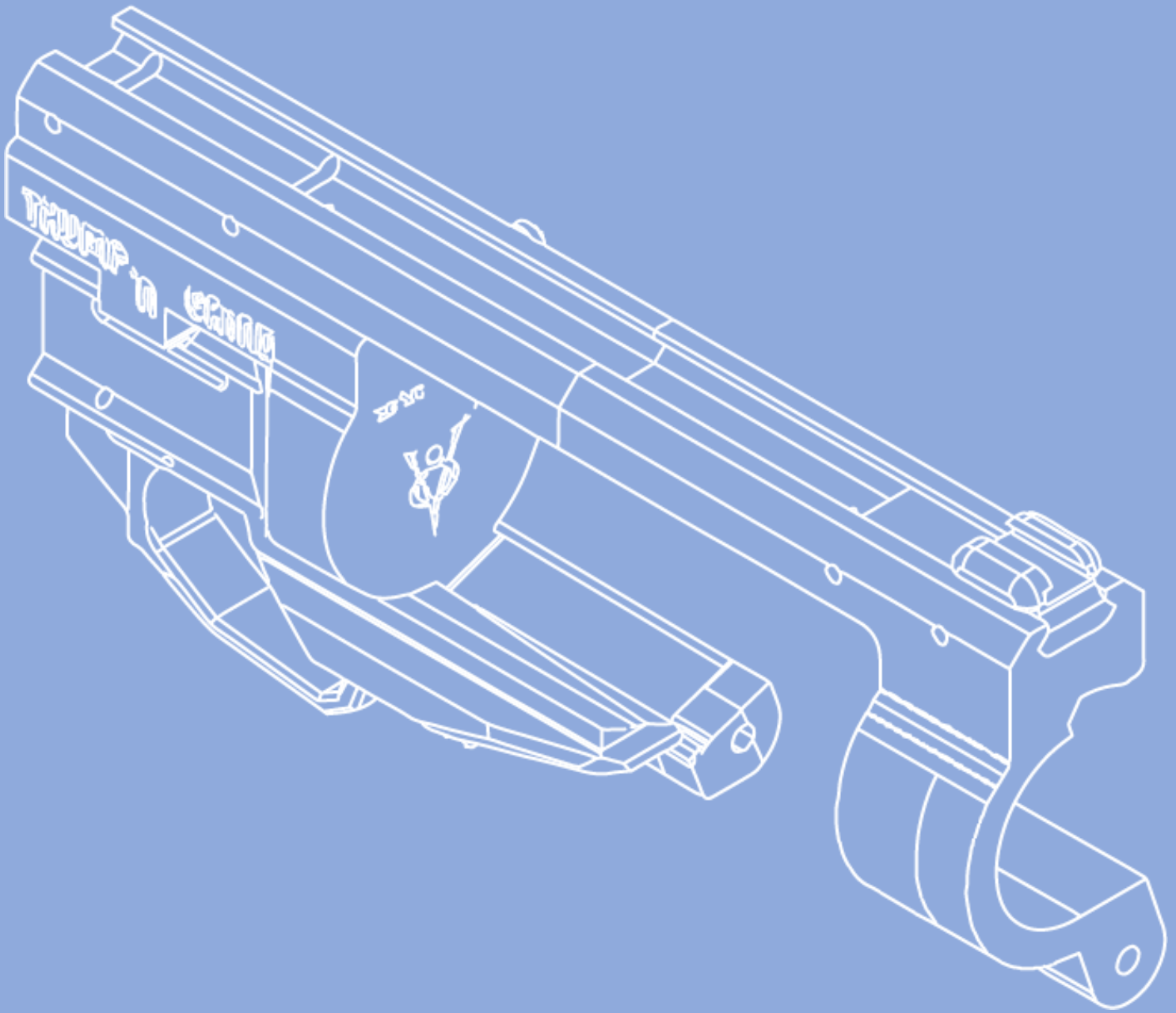
BARREL ASSEMBLY

9.



- Congratulations! The barrel assembly is complete. Set aside and proceed to the next step

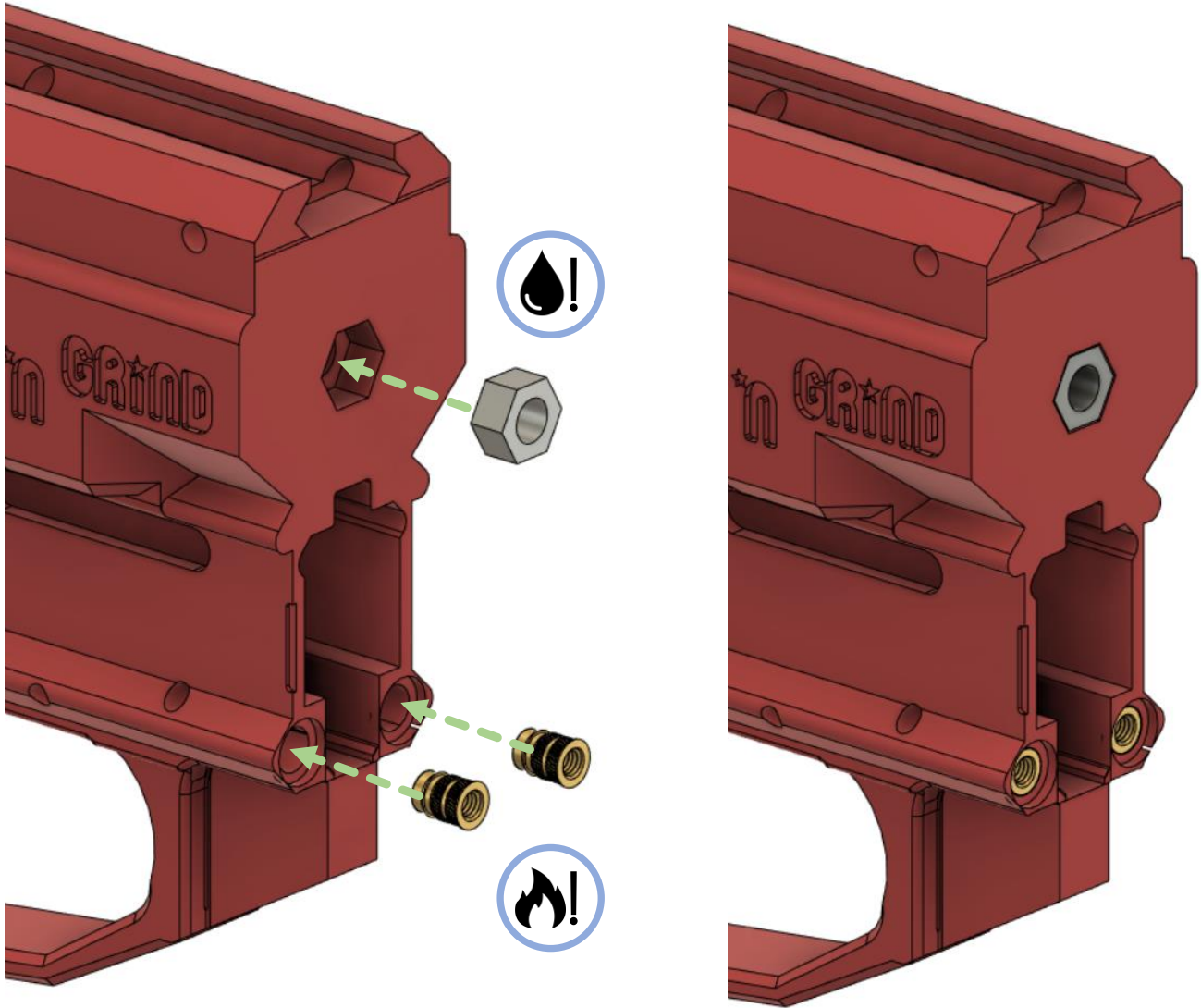
Lower Receiver



AWCY?

LOWER RECEIVER

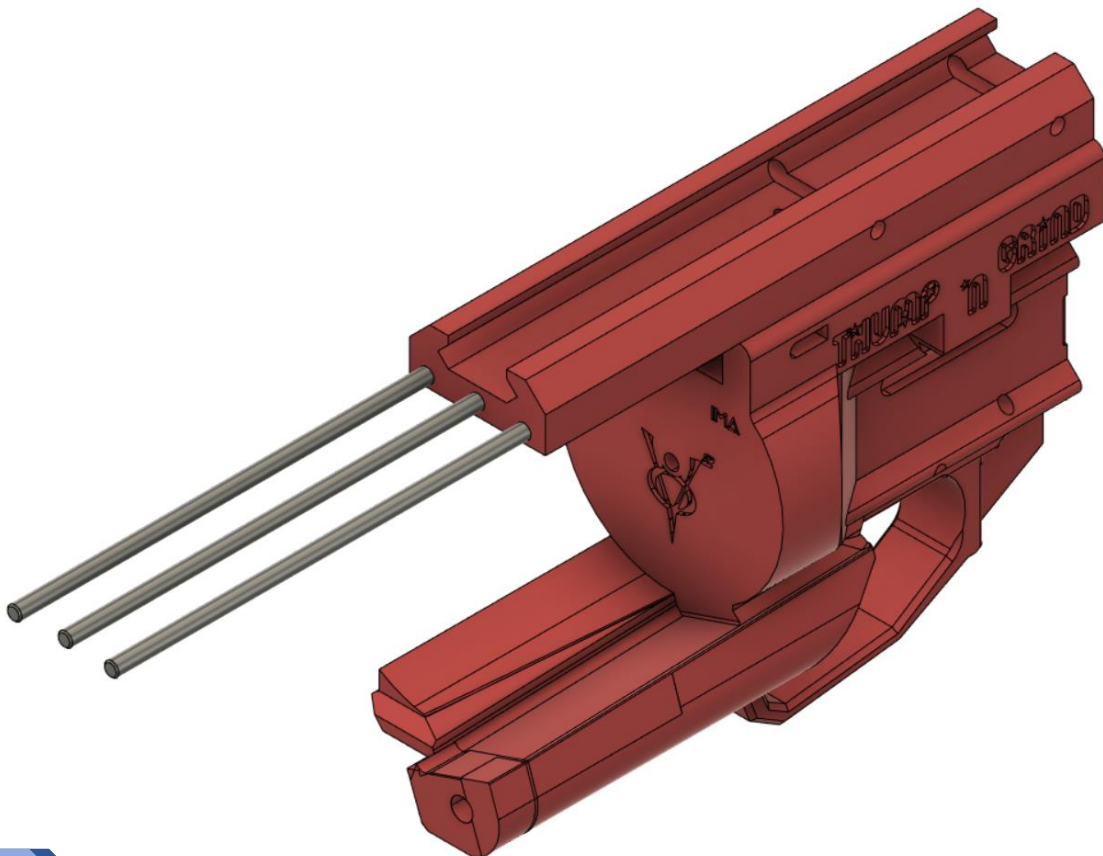
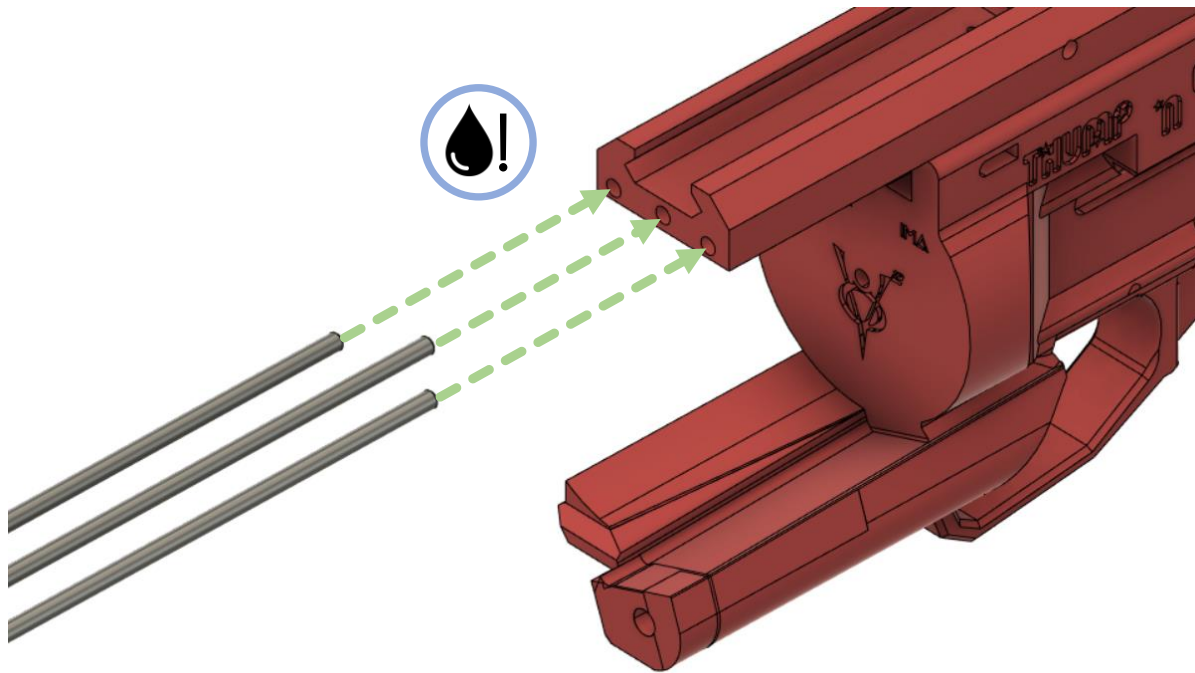
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AWCY?

LOWER RECEIVER

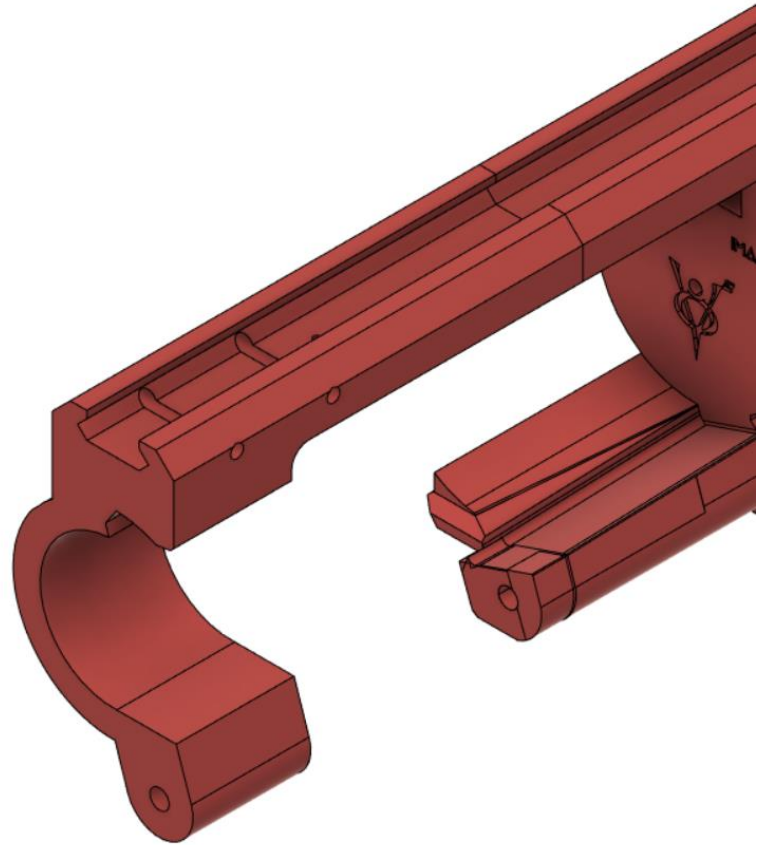
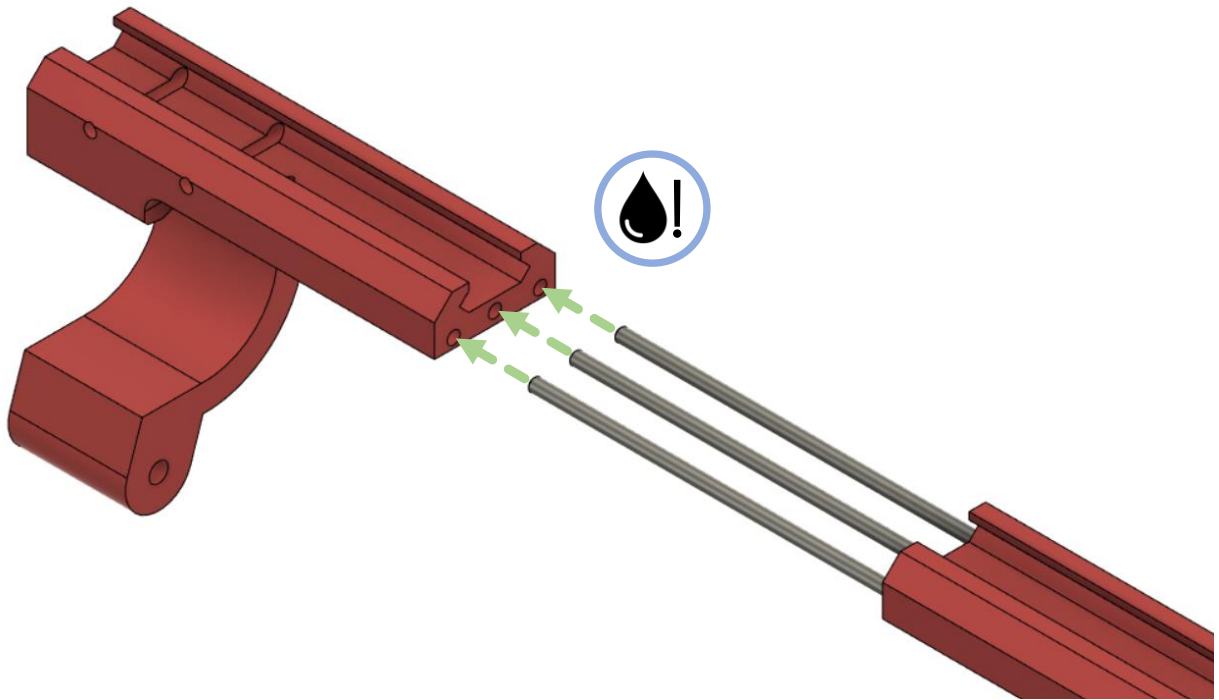
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AWCY?

LOWER RECEIVER

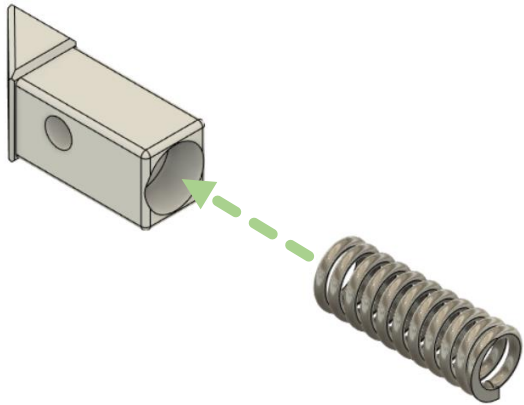
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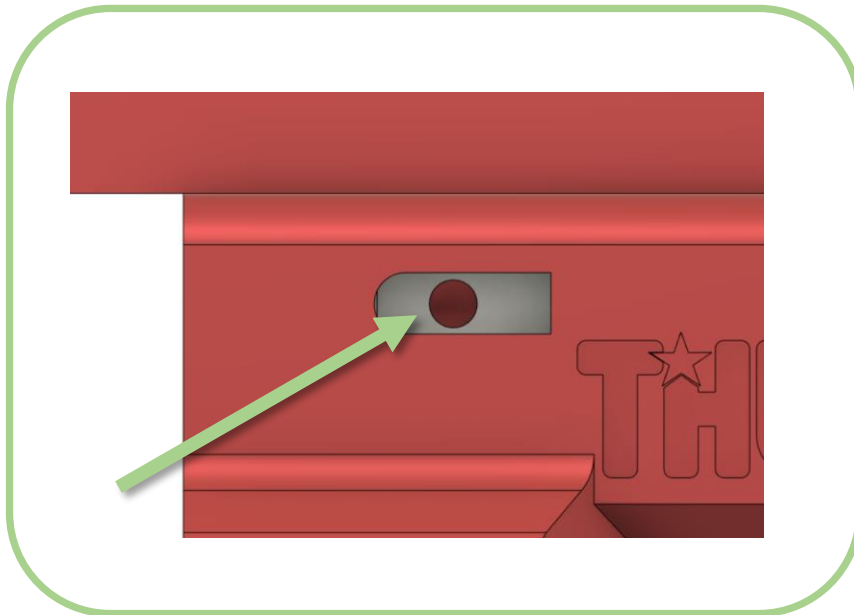
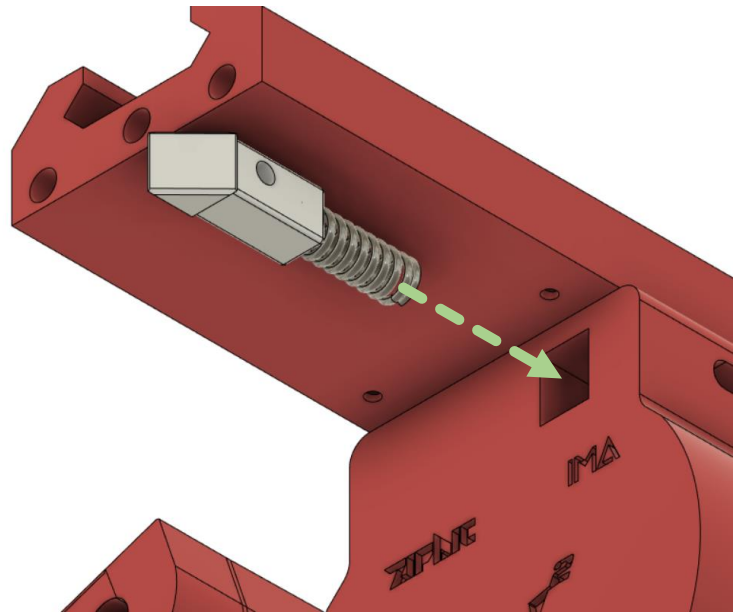
AWCY?

/// LOWER RECEIVER

4.



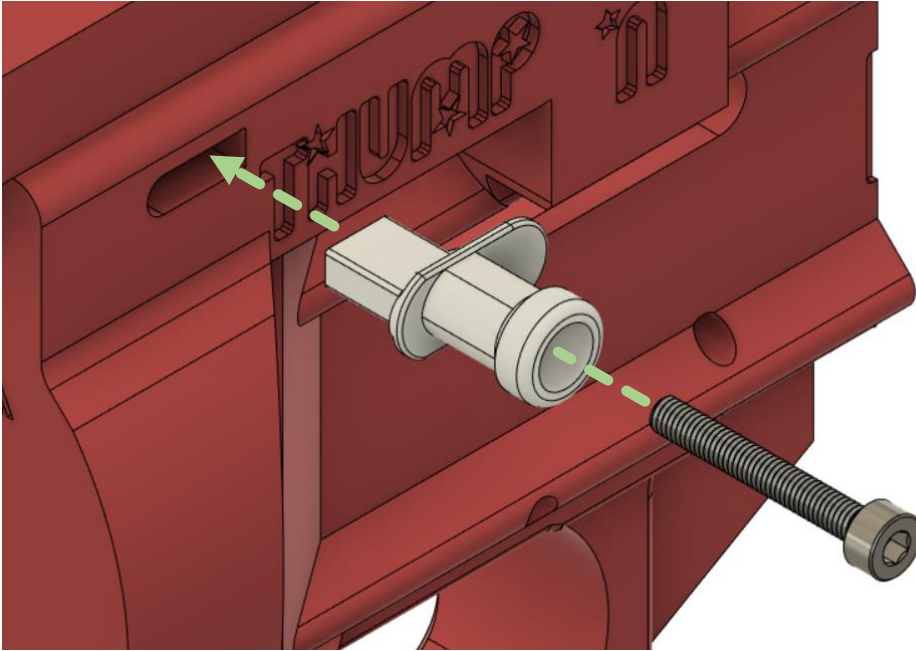
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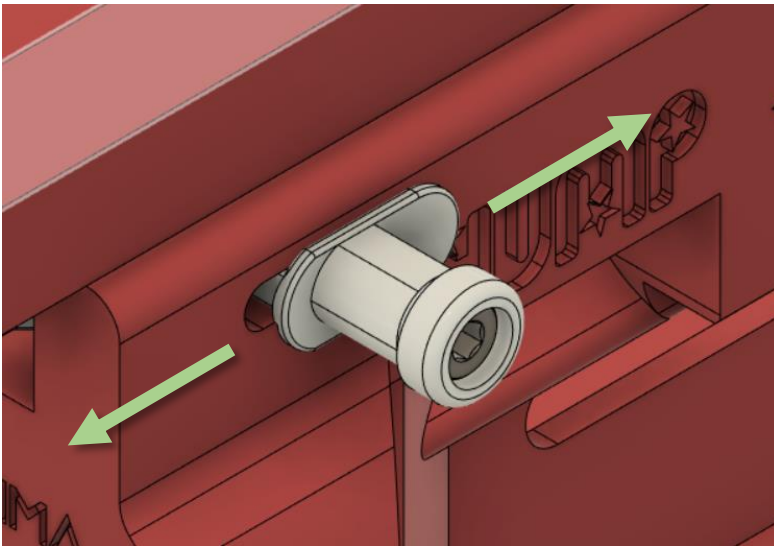
AWCY?

/// LOWER RECEIVER

6.

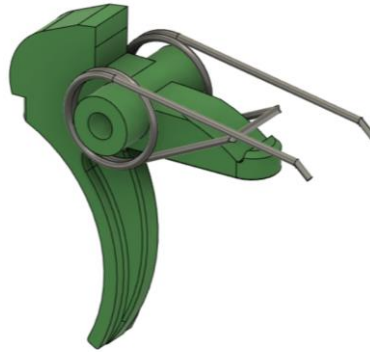
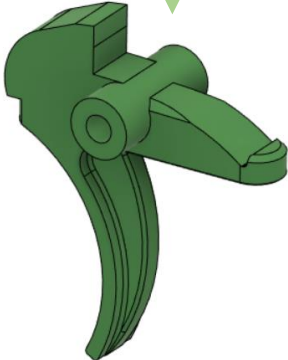


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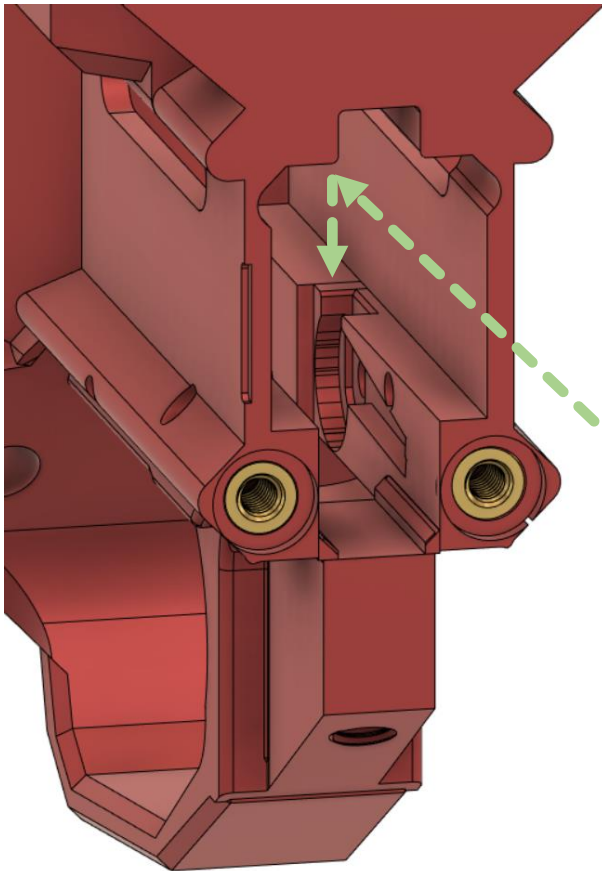


/// LOWER RECEIVER

8.



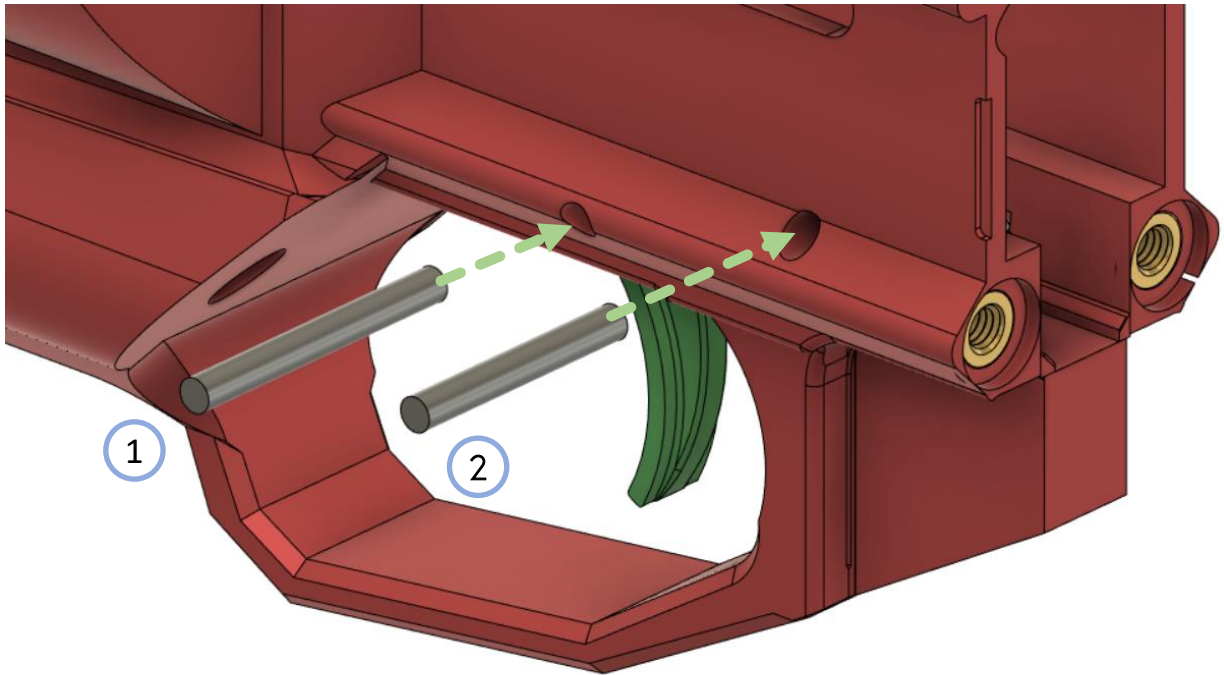
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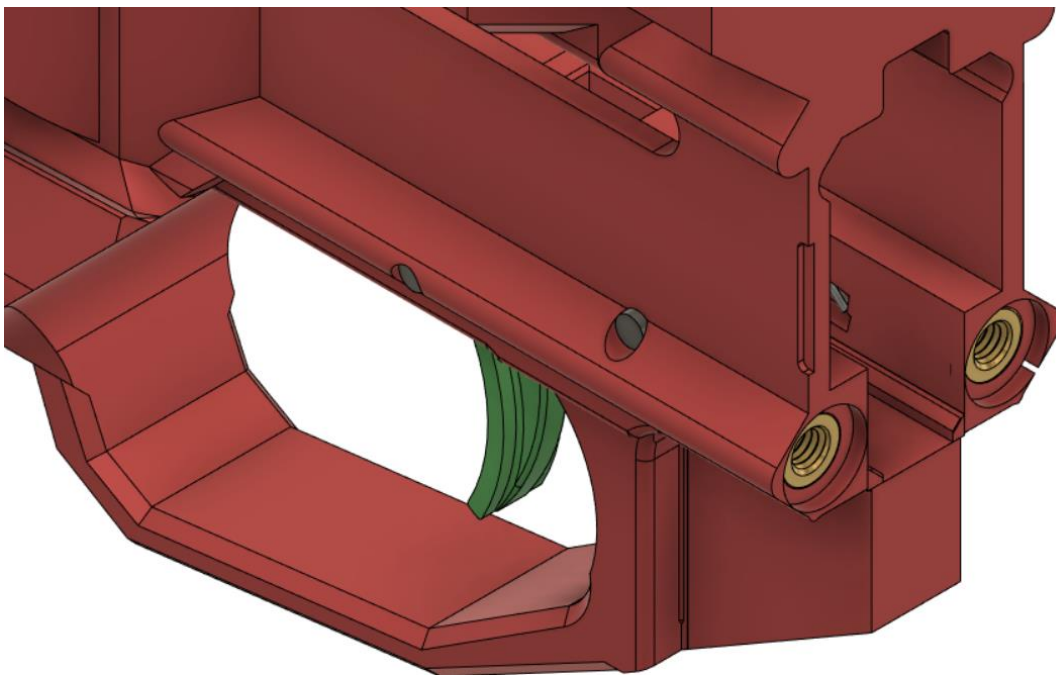
AWCY?

LOWER RECEIVER

10.



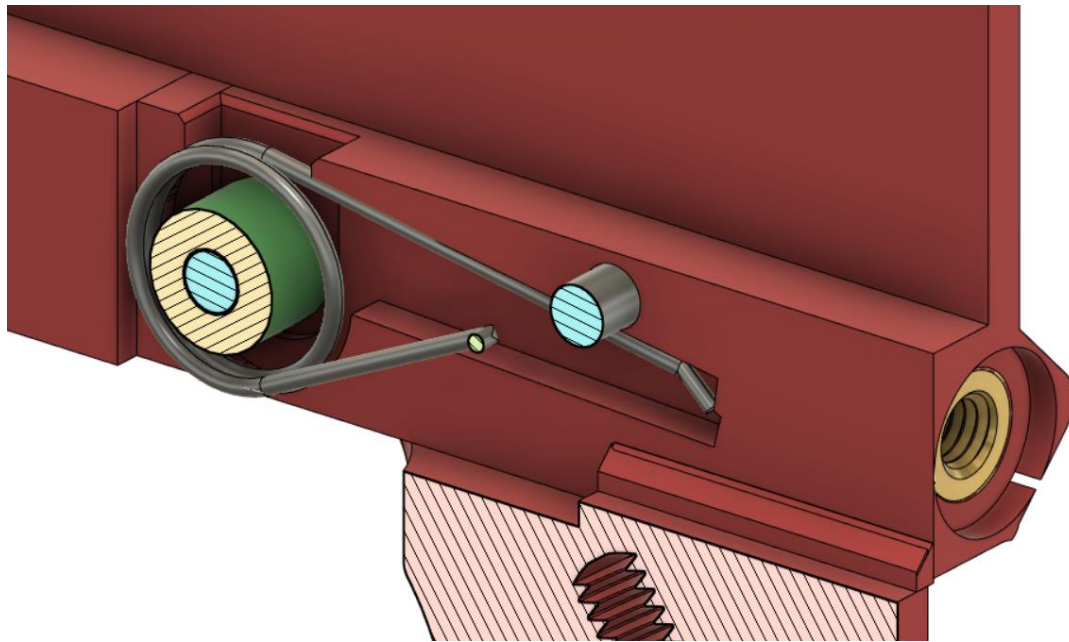
➤ **IMPORTANT:** Insert the trigger hinge pin first, then the rear pin for ease of installation.



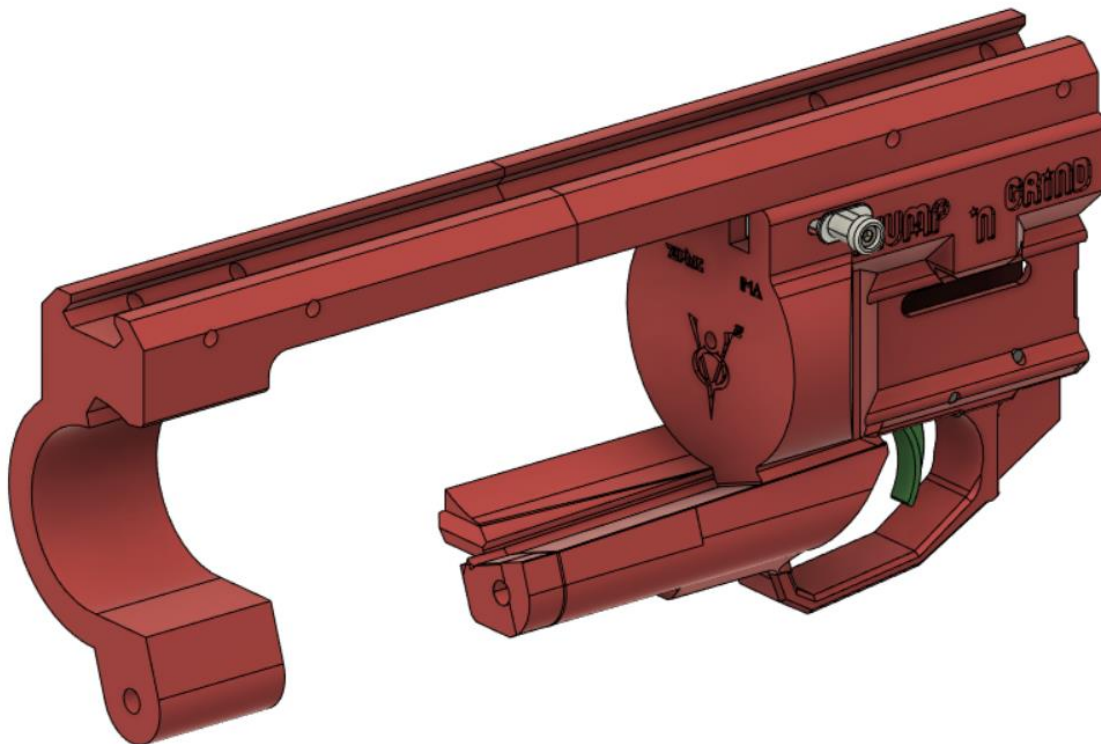
AWCY?

LOWER RECEIVER

11.



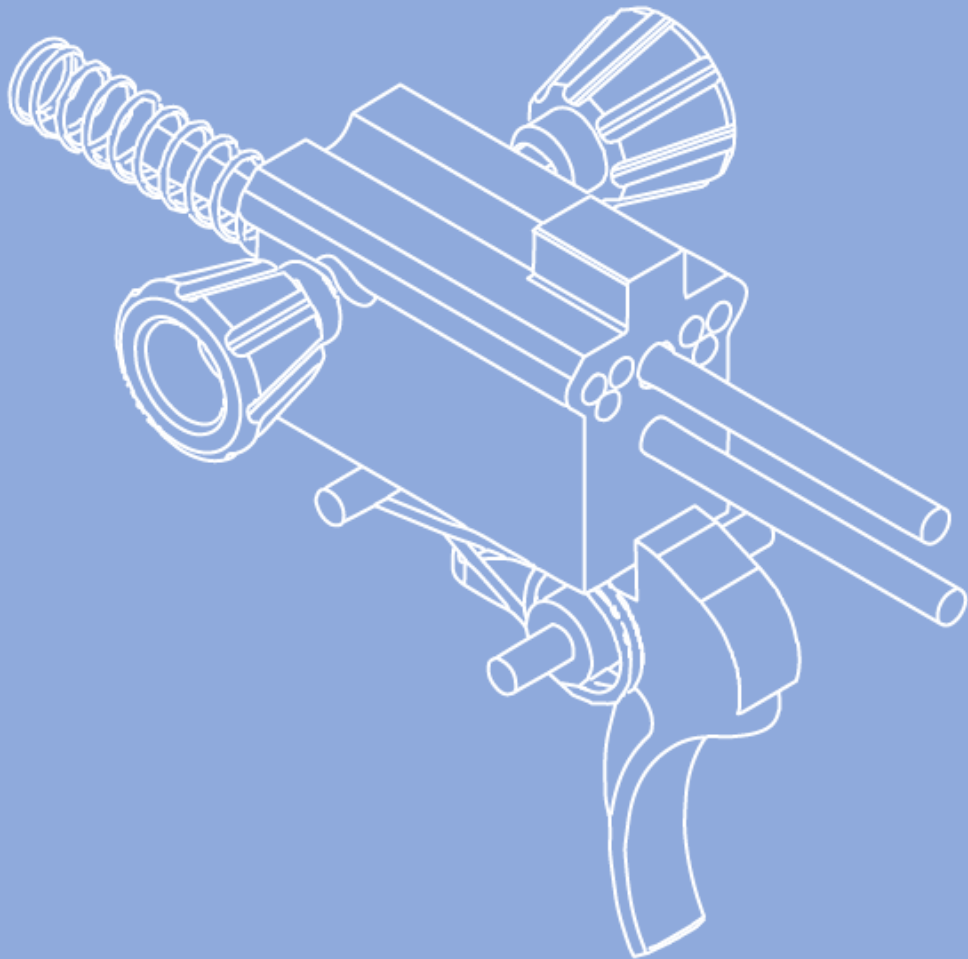
➤ **IMPORTANT:** Ensure that the trigger spring is properly seated into its pocket. You should feel spring tension when the trigger is pulled.



- Congratulations! The lower receiver is complete. Set aside and proceed to the next step

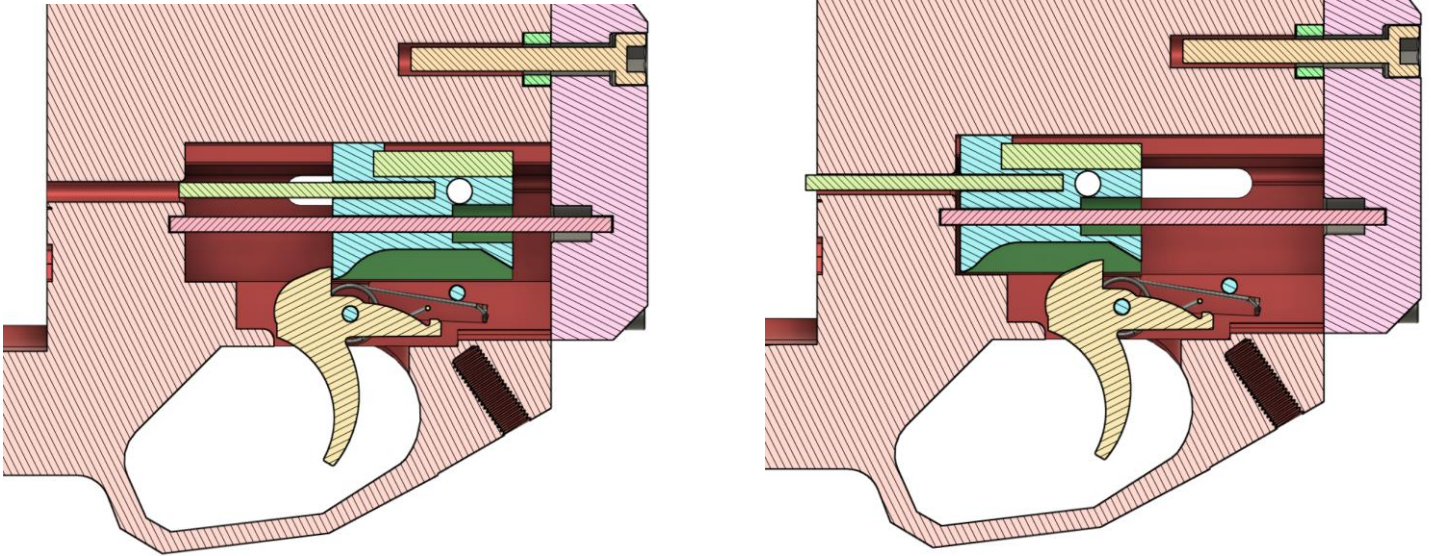
AWCY?

Striker Assembly

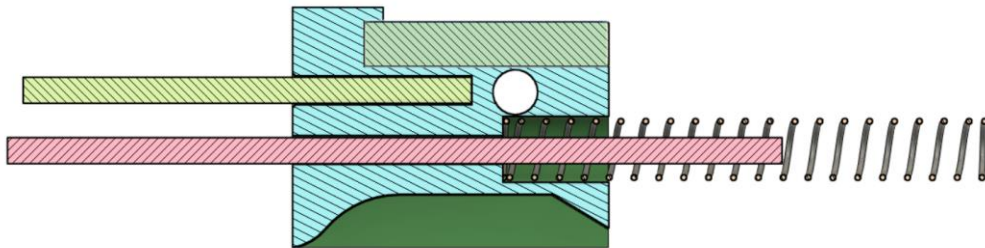
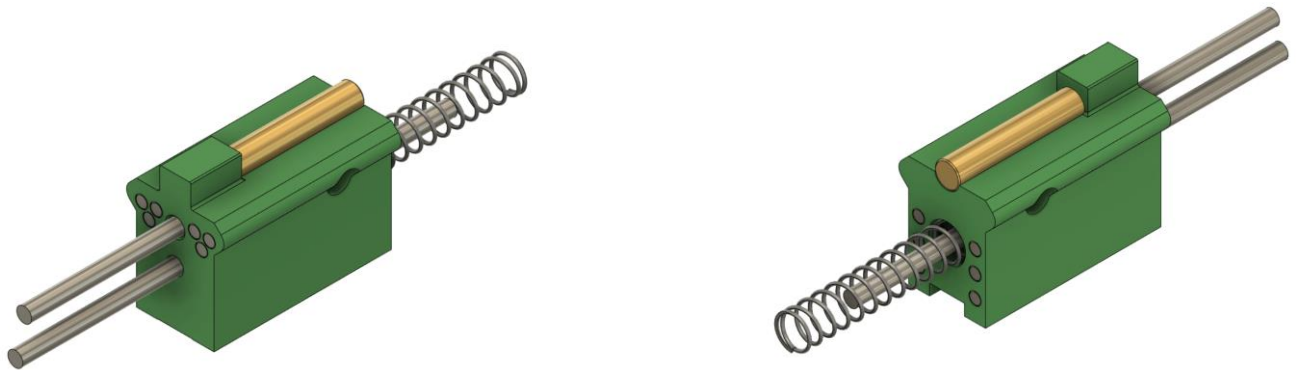


STRIKER ASSEMBLY

OVERVIEW

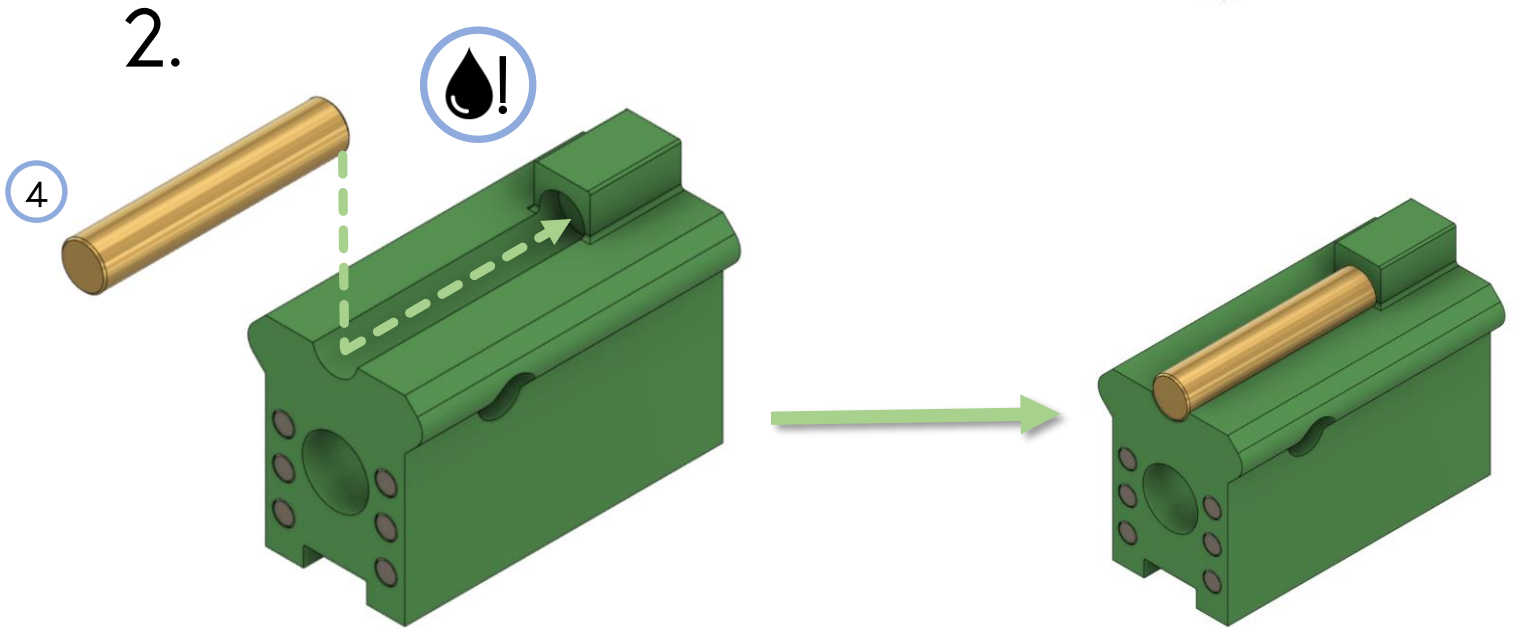
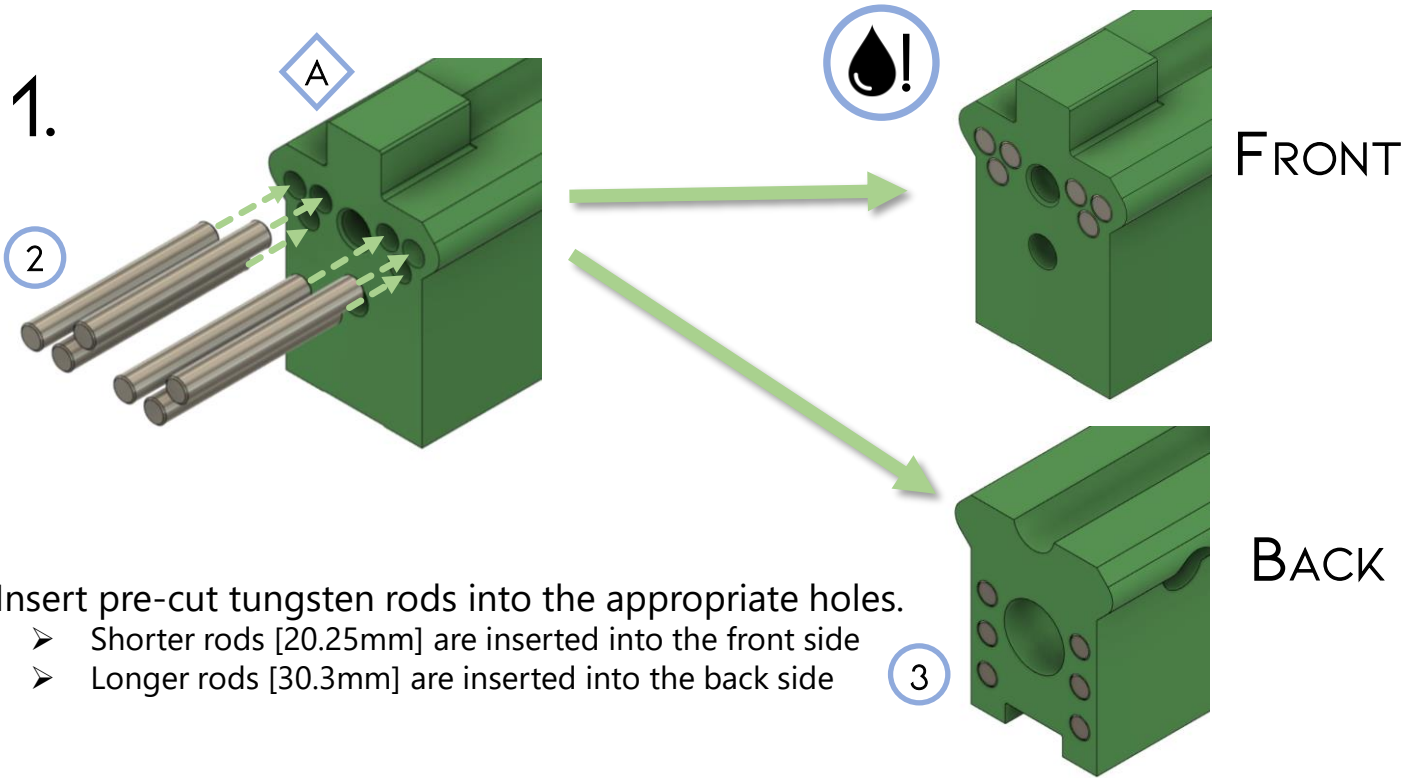


- Guide rod will be held in place by the lower receiver and end cap. Spring in captured by the countersink in both the



AWCY?

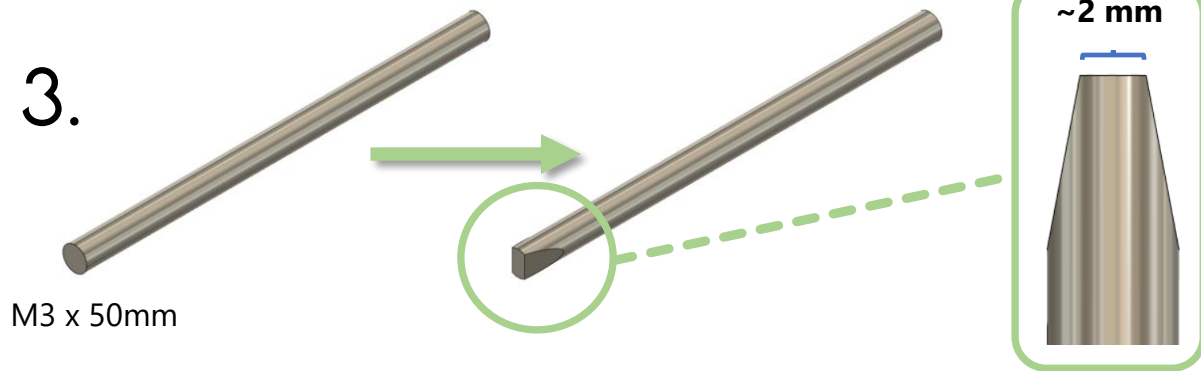
STRIKER ASSEMBLY



- Insert pre-cut brass rod into top cavity, secure in place with epoxy or JB Weld.

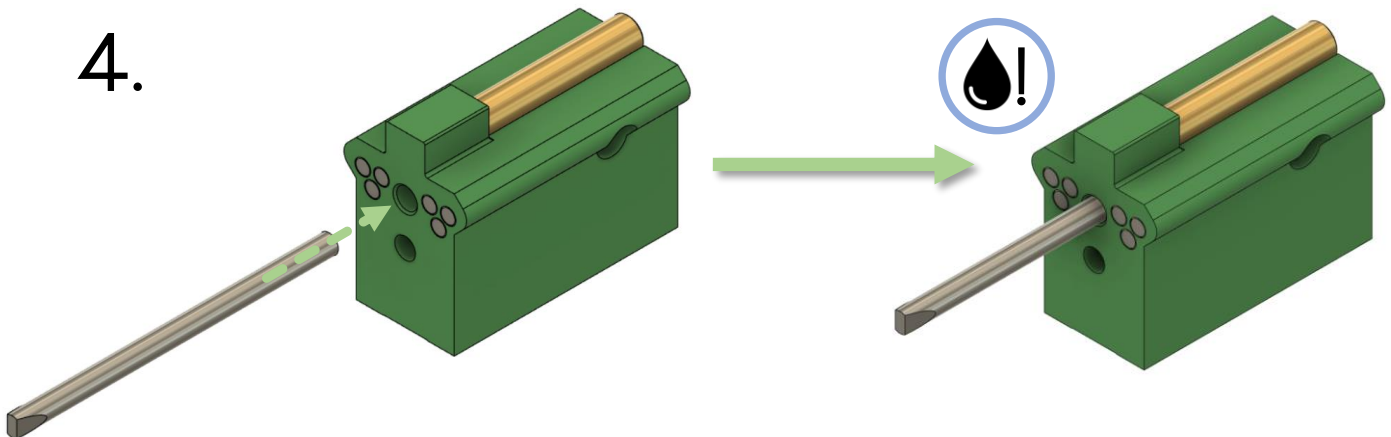
STRIKER ASSEMBLY

3.




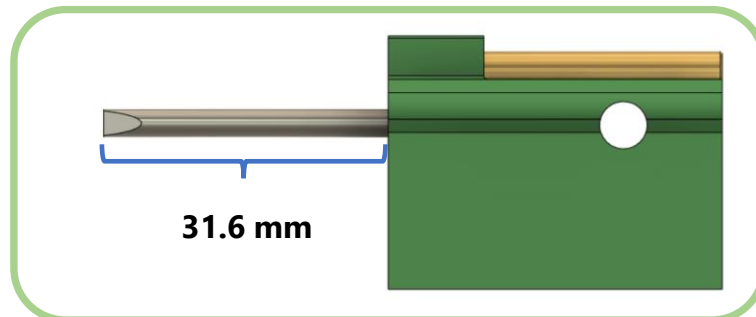
- The firing pin is made from a 50mm long M3 stainless rod. Before installation, adding a chiseled point is required for the most effective striking.
- File down rod on two sides so that the face has a width of approximately 2mm wide, see above diagram

4.

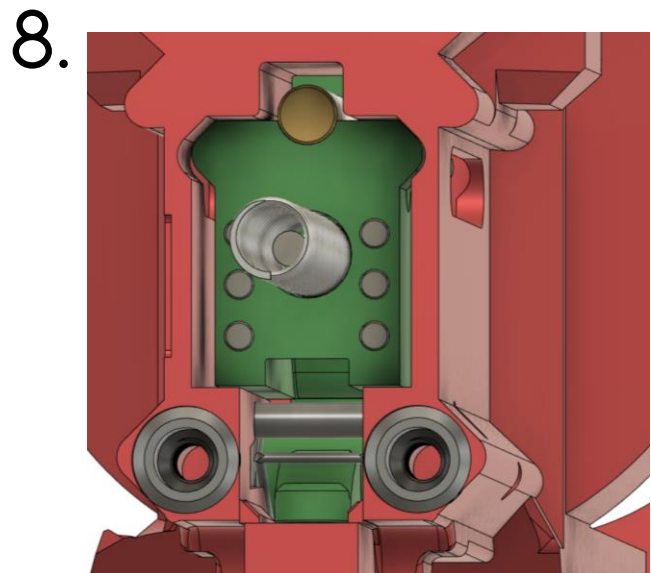
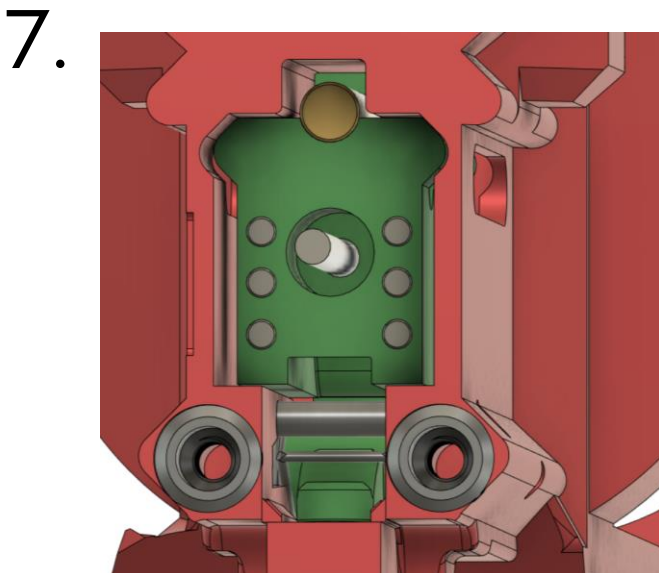
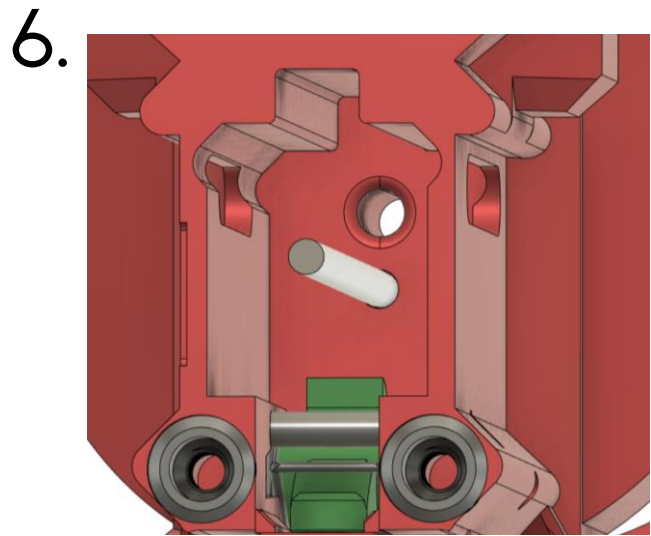
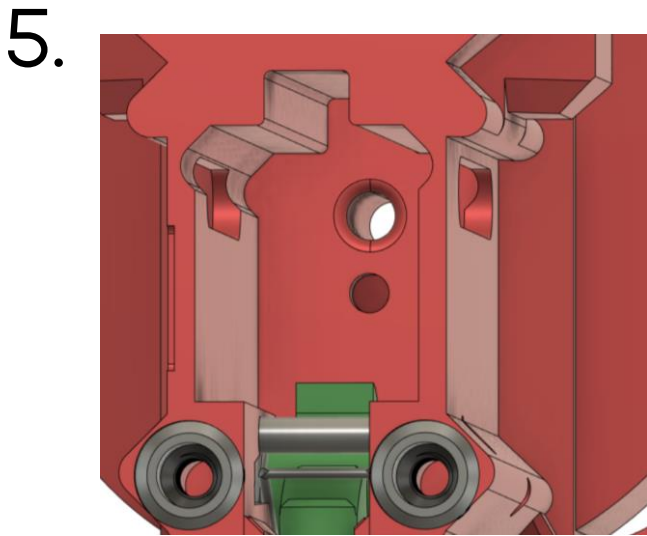


- Secure pin in place with epoxy or JB Weld

 **IMPORTANT:** Before the pin is set in place, adjust it so that the tip is ~**31.6 mm** from the striker surface. This will ensure proper striking of the round.



STRIKER ASSEMBLY



- The guide rod is placed inside the lower receiver followed by the striker and the spring.
- It is necessary to lubricate the rod and striker sides to ensure the highest striking speed.



➤ **IMPORTANT:** A lubricant should be added to the striker assembly and the fire control group cavity.



SUITABLE:

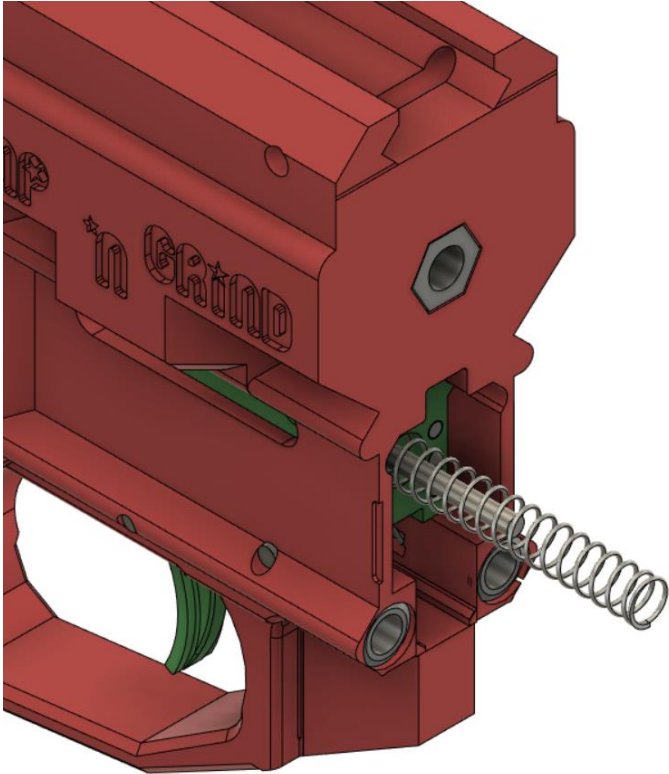
- 0w30 FULL SYNTHETIC
- PTFE
- Oil Based
- Graphite Powder



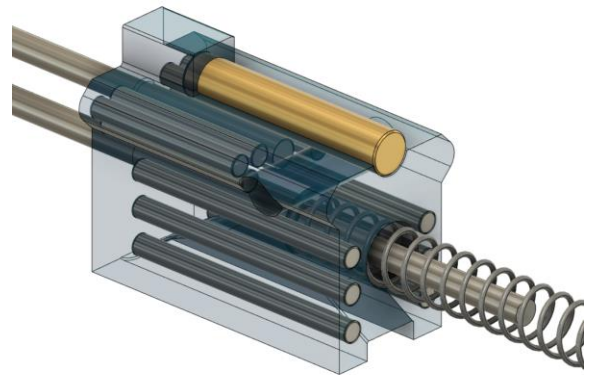
NOT SUITABLE

- Coconut Oil
- KY Jelly
- Saliva
- Anything Flavored

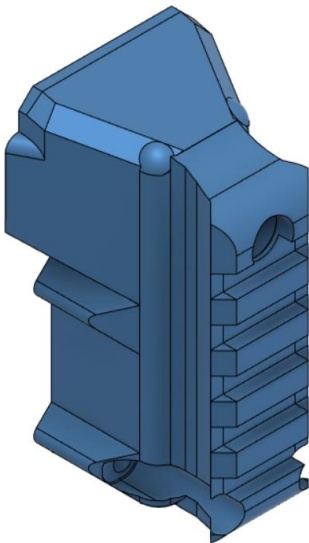
/// STRIKER ASSEMBLY



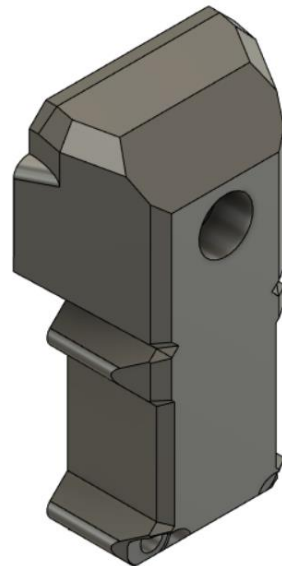
NOTE: Some builders may prefer to insert the guide rod into the end cap before installing it. This is entirely up to you. If you choose to epoxy it in place (NOT recommended) you will not be able to easily remove the striker for maintenance.



- To capture the spring and guide rod, an end cap is secured onto the lower. We have provided two types for your convenience:

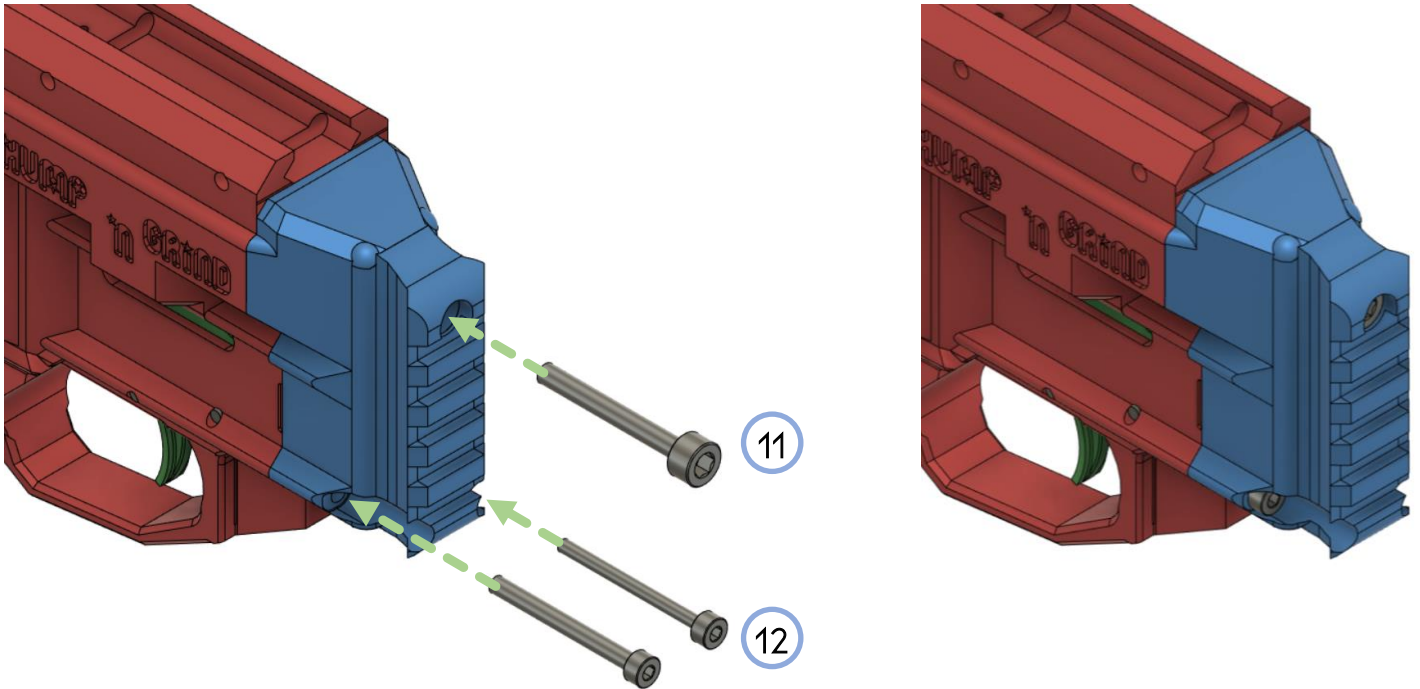


OR



STRIKER ASSEMBLY

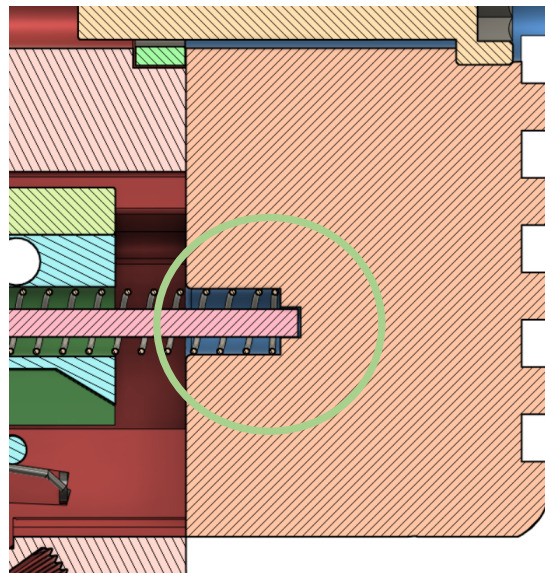
9.



- As previously stated, the spring and guide rod are captured by the end cap, which is secured by 3 fasteners. See the cross section below

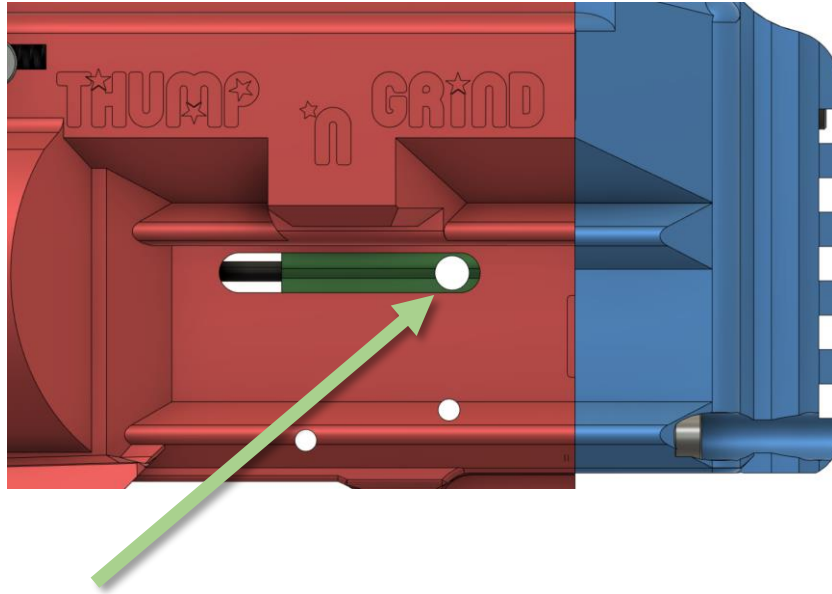


➤ **IMPORTANT:** Ensure the guide rod and spring are properly seated in their pockets.

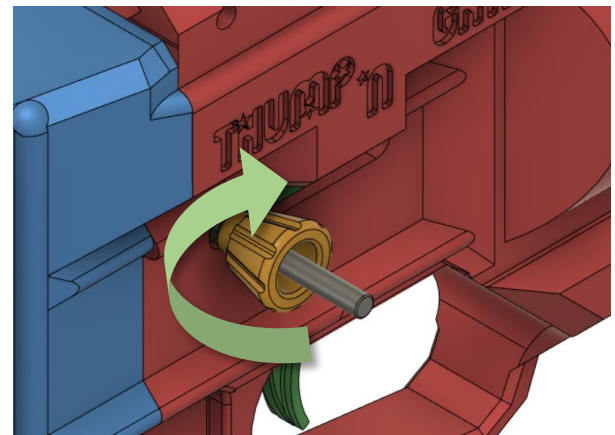
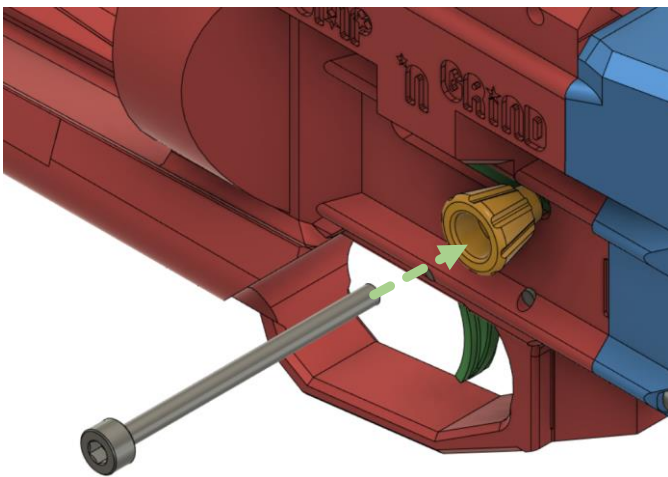


STRIKER ASSEMBLY

10.

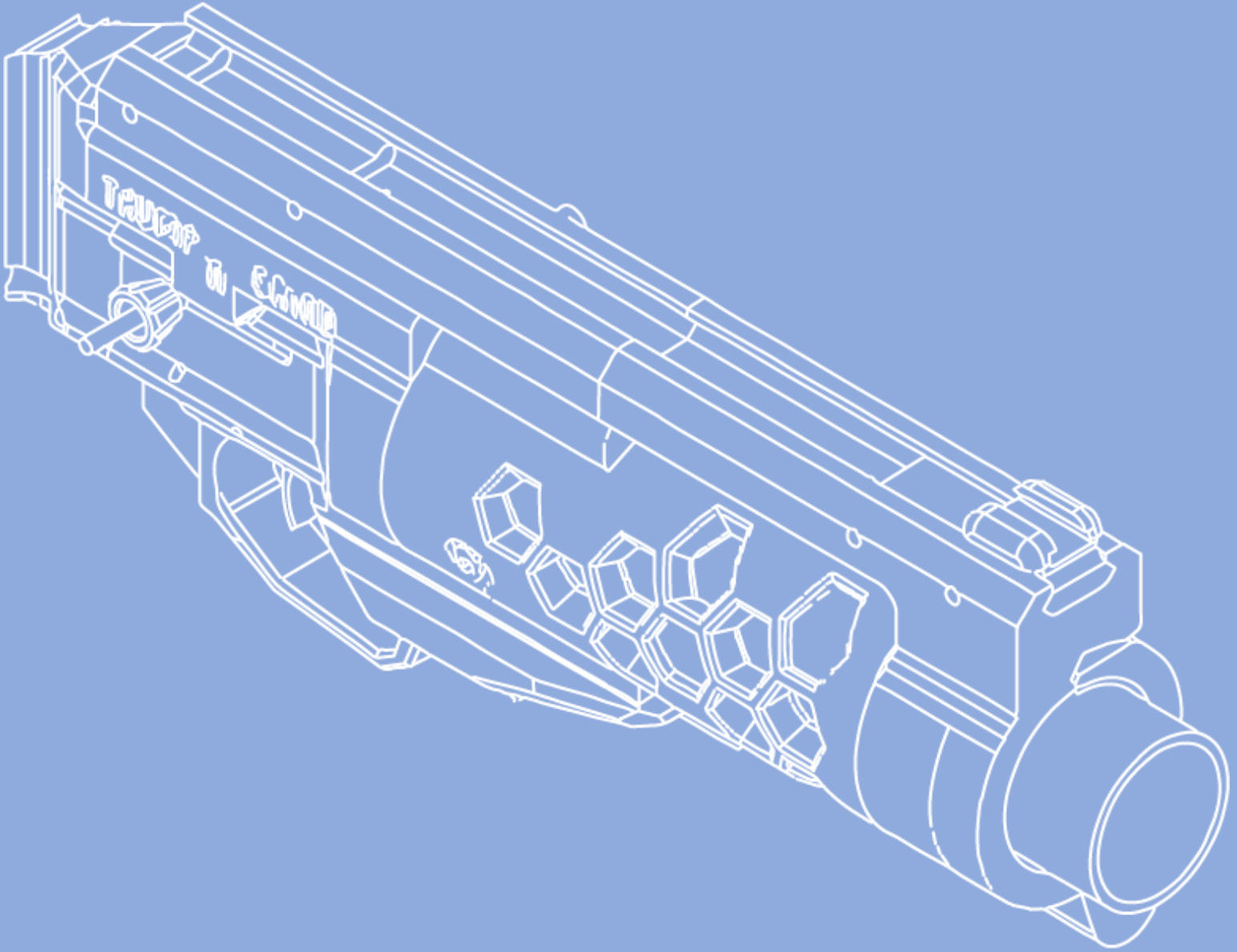


- There is a hole in the striker that is used to secure the charging handle. The handle is made of two knobs and a bolt. This design is very basic, and you may choose to make your own custom handle.



- Thread the bolt through one knob, through the striker, then tighten down the knob on the threads until they are secure. Over tightening will cause friction and slow the striker down.
- Congratulations! The striker is now fully installed. Set aside and proceed to the next step

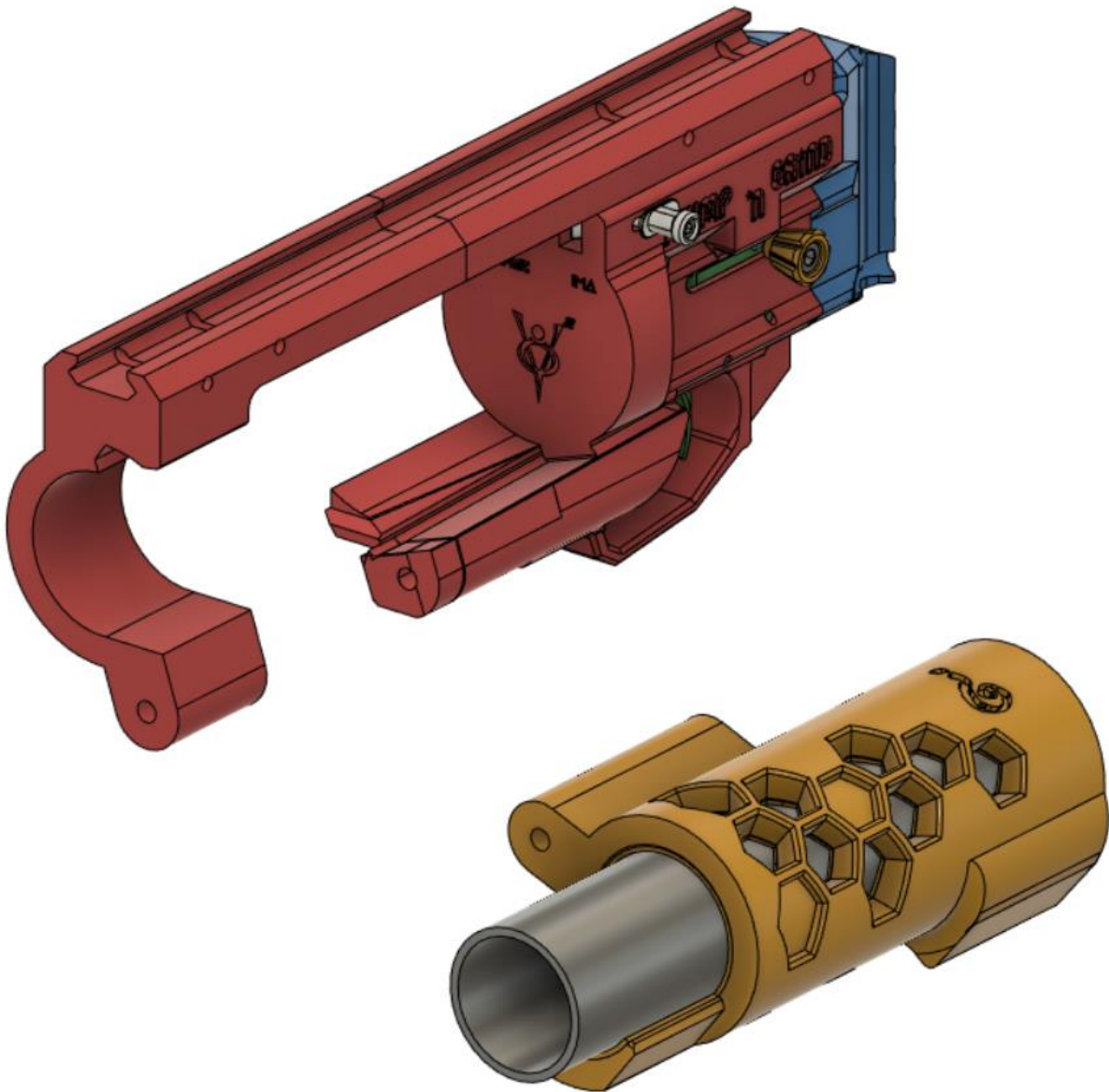
Final Assembly



AWCY?

FINAL ASSEMBLY

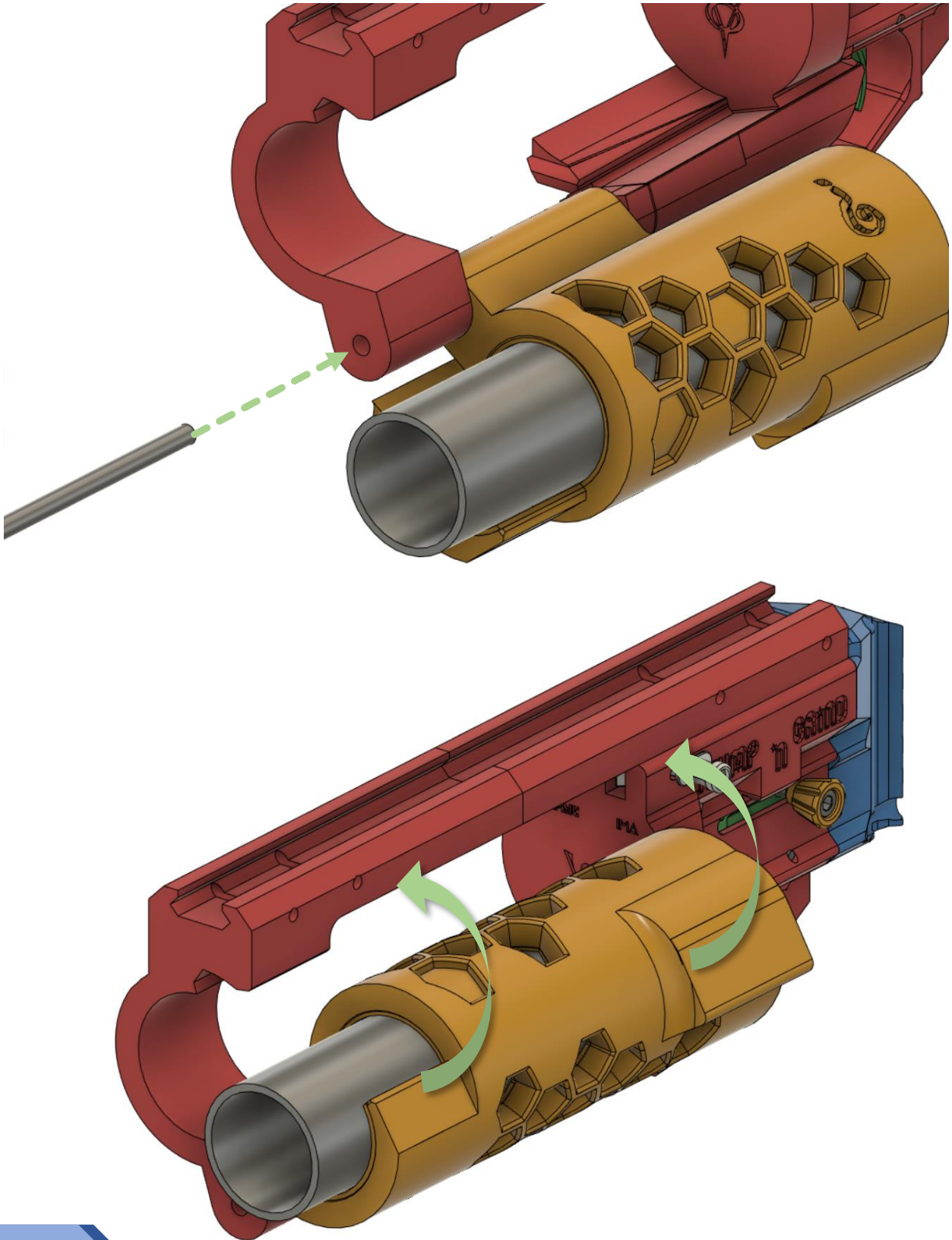
1.



AWCY?

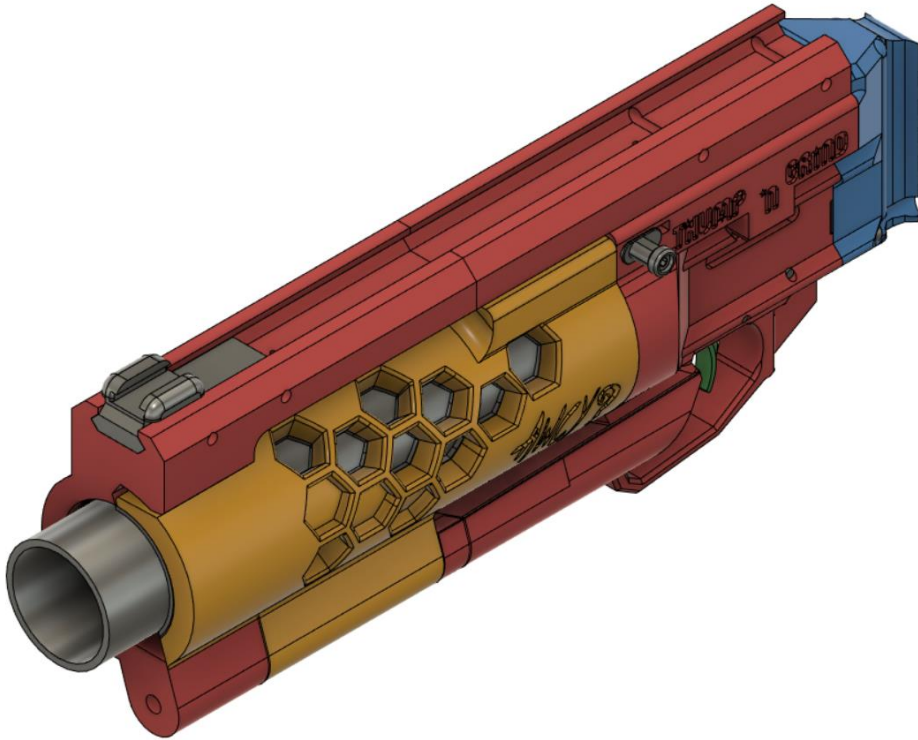
FINAL ASSEMBLY

2.

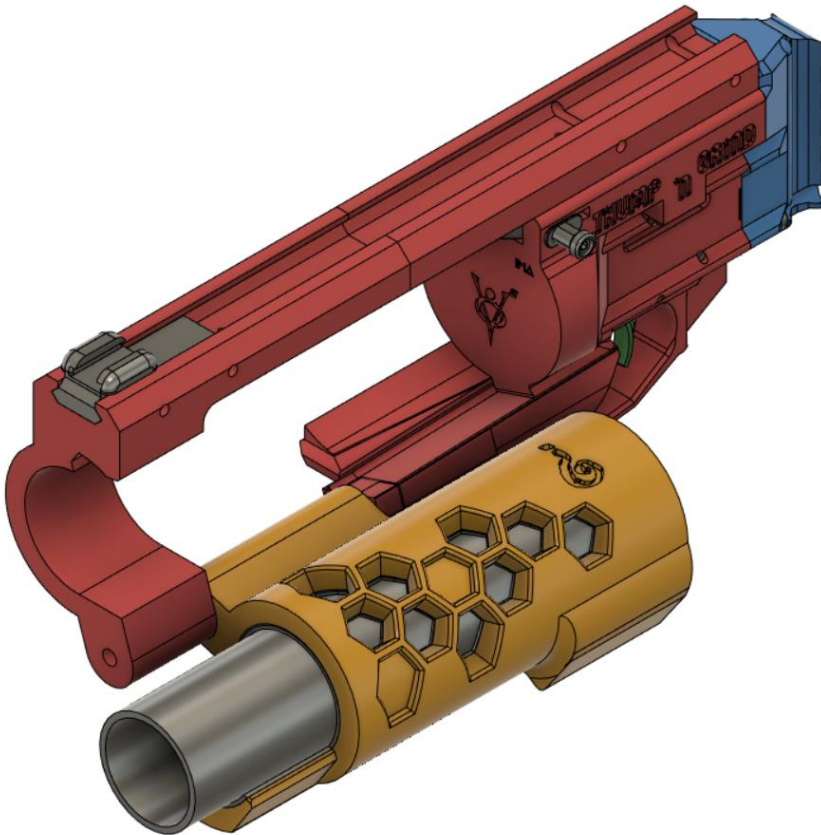


AWCY?

FINAL ASSEMBLY



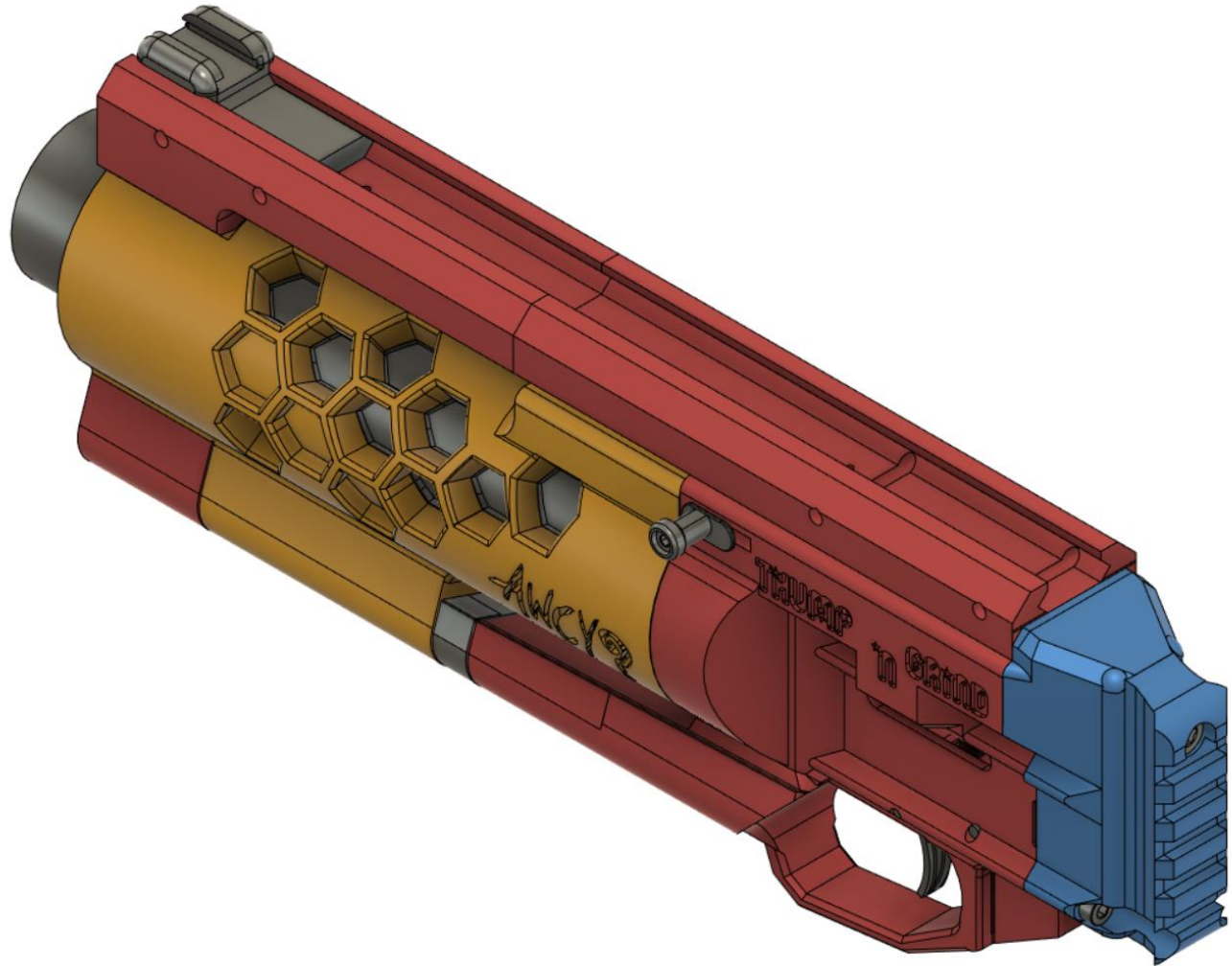
CLOSED



OPEN

AWCY?

/// SO



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/// FREQUENTLY ASKED QUESTIONS

Q - *I see that the barrel retainer is sized for a 40mm shell, can I fire one using just the plastic liner?*

A - **You can fire just one. You will need to brace the chamber area with both hands.**

Q - *Can I (Fill in blank)?*

A - **Probably, but should you?**

Q - *Should I use superglue to hold my printed signals together?*

A - **Probably not.**

Q - *Can I use this as an under barrel?*

A - **Yes! However, make sure to use a secure mount, and the low-profile endcap we provided. Example: not a 3d printed handguard or some such.**

Q - *I don't seem to be able to close the barrel retainer.*

A - **Not a question, but make sure the striker is cocked back.**

Q - *Where can I get a kit? Do I have to buy there?*

A - **PNW Tactical, no.**

Q - *Which bic spring gets used on the ejector?*

A - **Either one seems to work well, the longer one will need trimming.**

Q - *What about using Epoxy "X"?*

A - **You may have success with other epoxies, but it has to be able to bond well with plastics and metals**

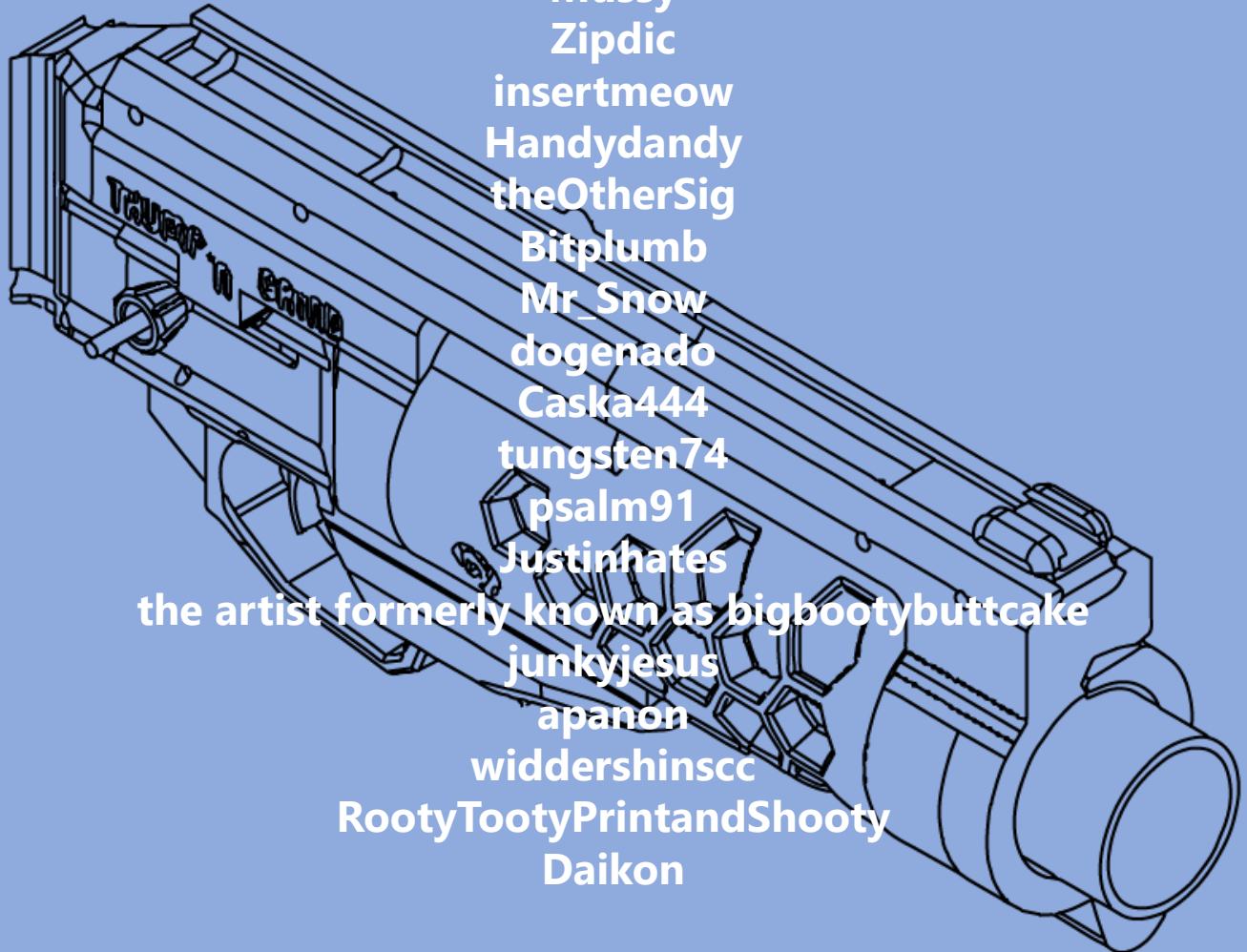
Q - *How can I help with future projects?*

A - **You should be able to find your way from www.arenwecoolyet.wtf/**

Q - *My prints keep failing.*

A - **Play the tutorial at www.arenwecoolyet.wtf/ if still unclear YouTube your specific issues.**

Special Thanks



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Hardware kits available for sale at www.pwntacticalsupply.com

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Designed in the United States of America



AWCY?

*A well regulated Militia, being necessary to the security of a free State,
the right of the people to keep and bear Arms shall not be infringed.*

