



**MYUTO ARMS**



# 1. About this project

This project is an attempt to make a toy gun with winged projectiles in order to complete the study of the capabilities of guns based on a rubber band mechanism. I wanted to find a way to make the flight of the projectile more powerful and predictable.

Well, I can say that I almost succeeded. The Whisper-0 folder contains two projectile variations: a fully printable projectile and a projectile whose head is weighted with an M5 nut (see the next page for instructions on how to do this). The weighted version of the projectile flies very well, rarely losing its flight path — less often than conventional projectiles from ERM-15 or ENSIS.

But still, after so many different mechanical designs, I have to admit that I can't make rubber band-powered mechanisms more powerful than the SP-26 or Ensis M5000C.

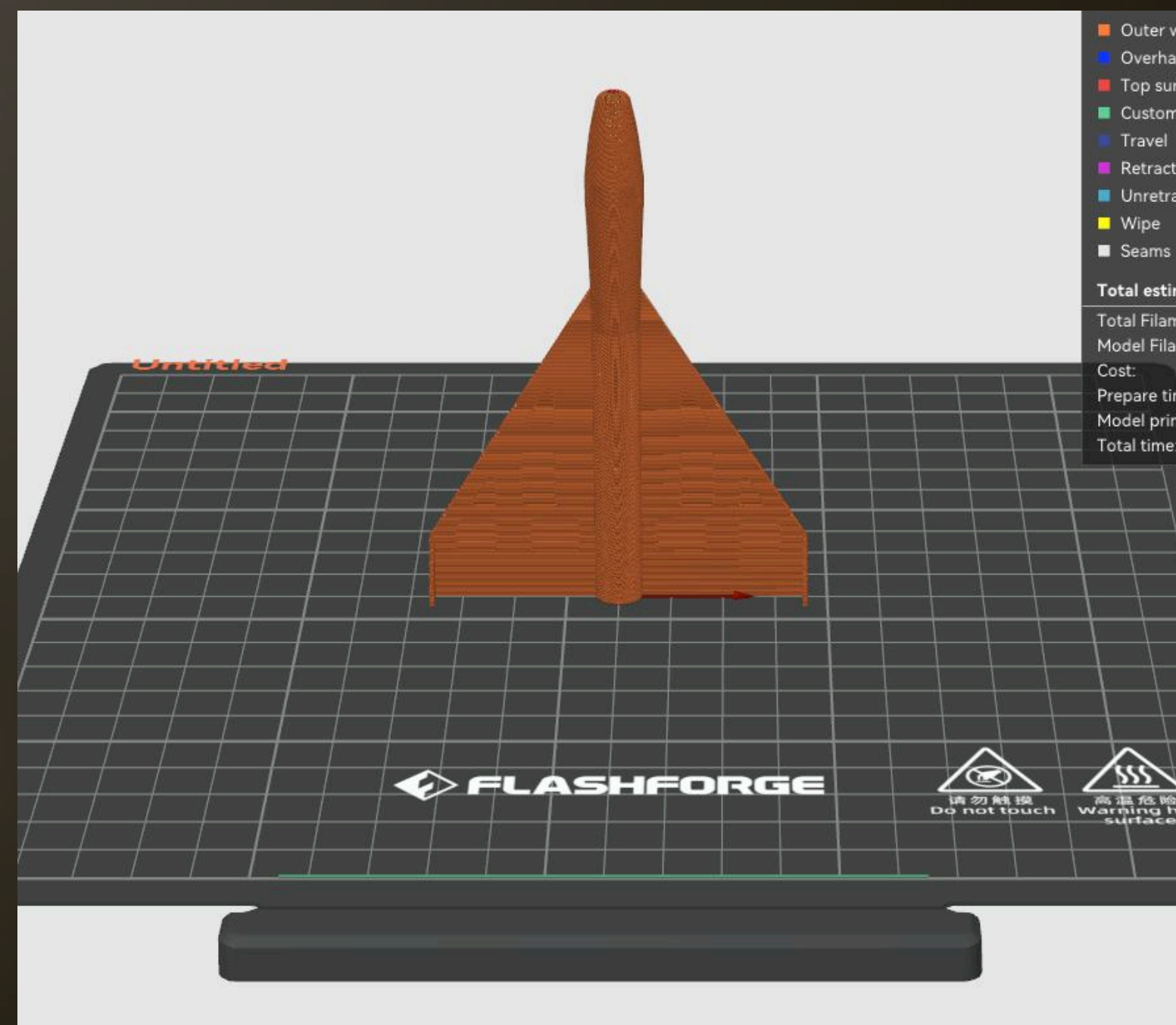
But this is not a defeat, just the beginning of the search for power, but now in springs. As my friend from Germany said: "Jetzt ist nicht die Zeit, den Kopf hängen zu lassen." Now is not the time to hang your head.



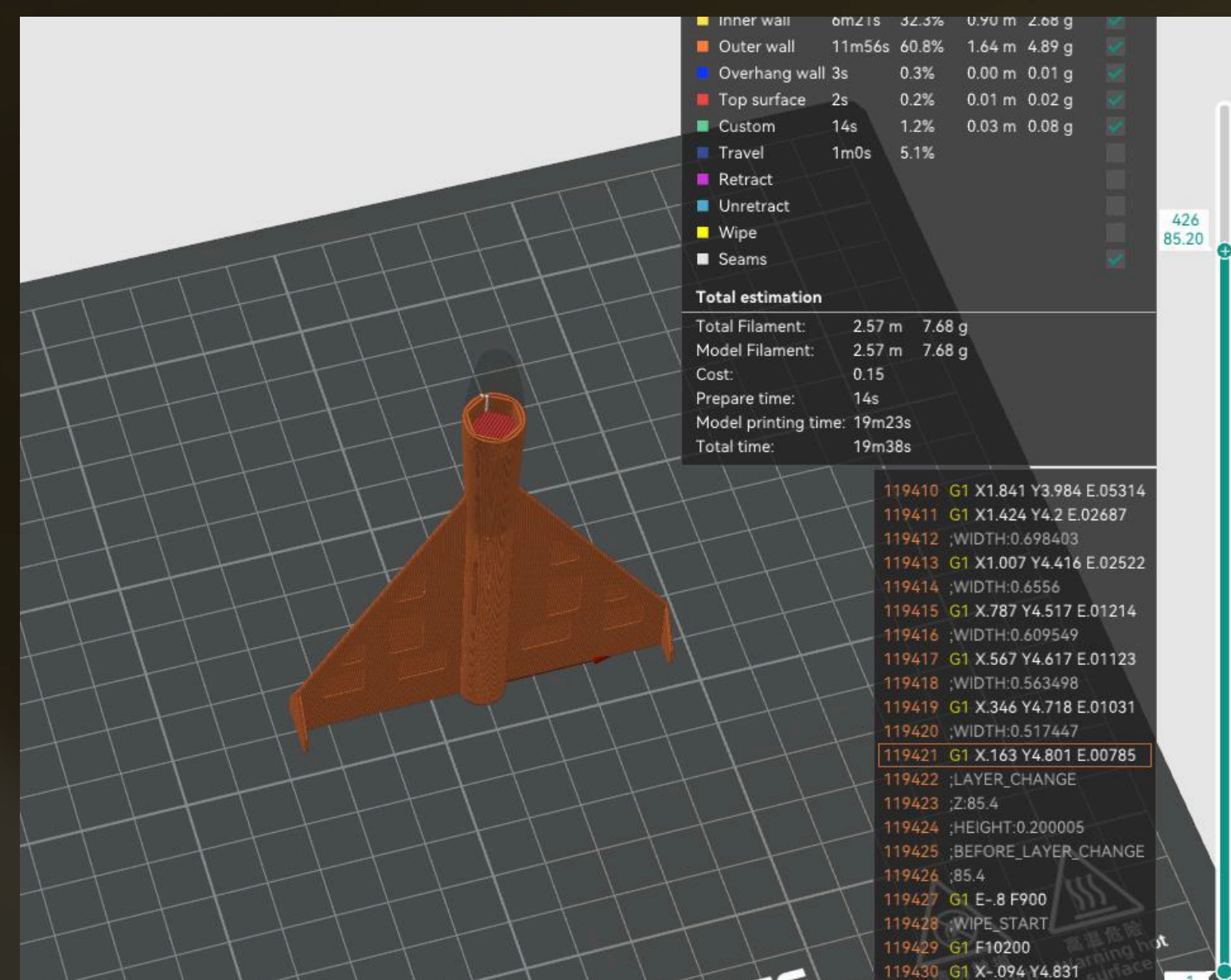
## 2. How to make a weighted version of a projectile

Let's look at an example using OrcaSlicer.

1. Load the model into the slicer. When printing any type of projectile, set 8 outer perimeters (walls). Click "Slice Table."



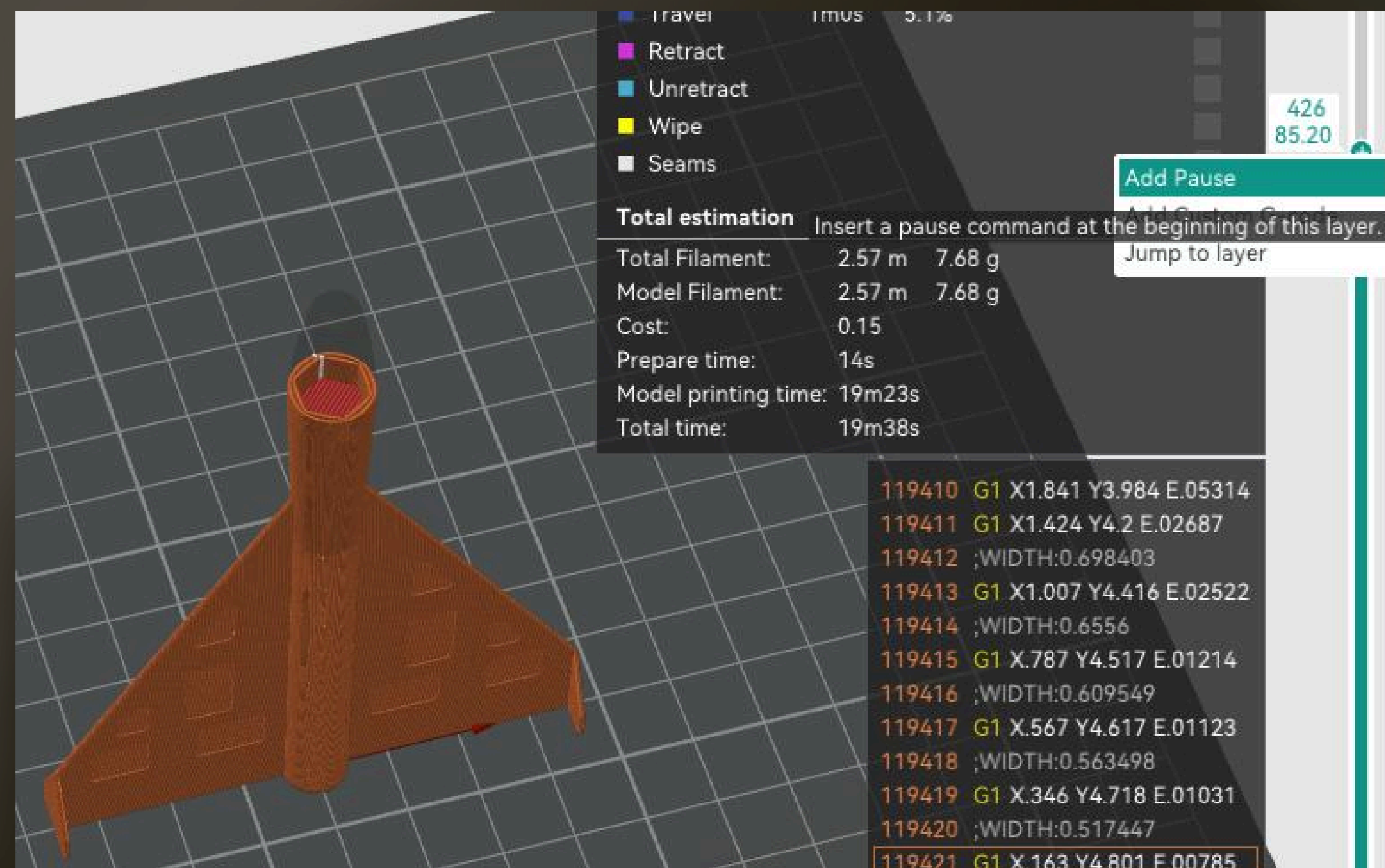
2. On the right, there is a layer viewer. We are looking for the last layer, where the cavity for the M5 nut is printed.





## 2. How to make a weighted version of a projectile

3. Right-click on this layer → Add Pause. Please note that your printer must support the pause command for this to work.



4. Send to print. When the printer pauses, carefully insert the nut into the cavity and resume printing.



### **3. Please subscribe to Boosty**

Even if you subscribe for free, I will be very happy about it. And you will be able to keep up to date with new projects, as well as news about the Myuto project. Myuto is what we are building together with you, printing guns, toys, and trinkets on our 3D printers. Myuto is all about attention to detail. The New Year's series of projects is almost finished, and after I finish up with all the holiday releases, I will have to take a break for about two months. To stay up to date, it's best to subscribe to Boosty. Almost all posts there are free. And news and announcements are always free.



## 4. Would you like to receive a gift?

If you want to receive one of our models for free, send us photos of your cosplay using any of our guns. You can send them to any of our contacts listed at the end of this manual. Good luck, guys, I look forward to seeing your photos!

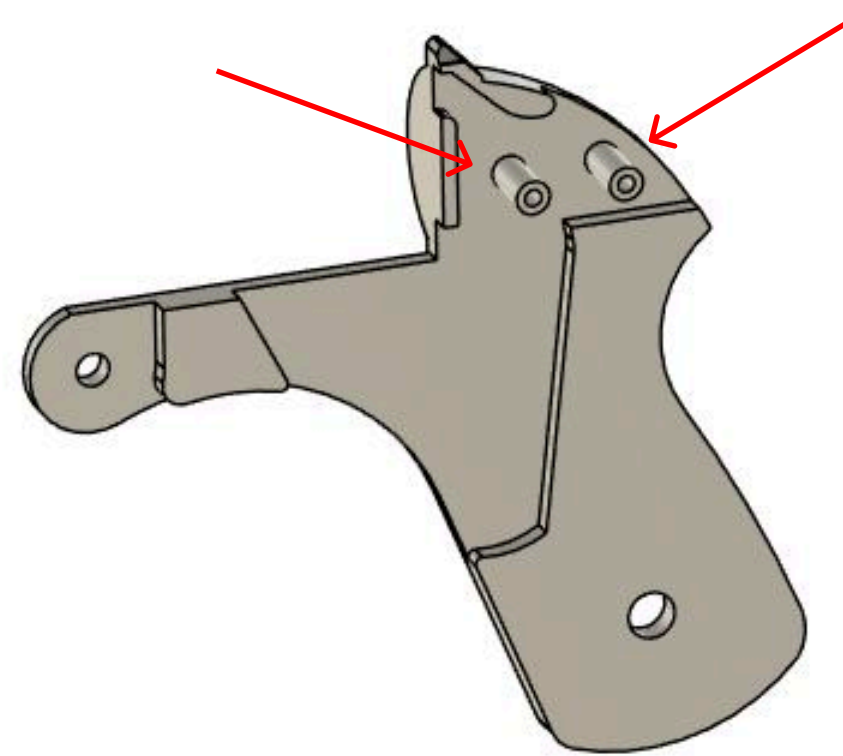






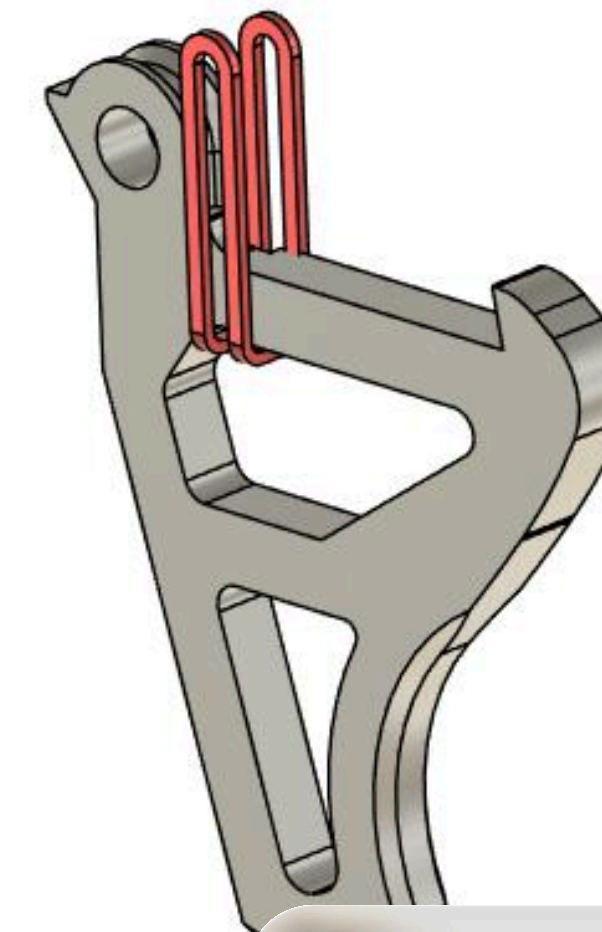
# Step-by-step instructions. Frame and Trigger assembly

1



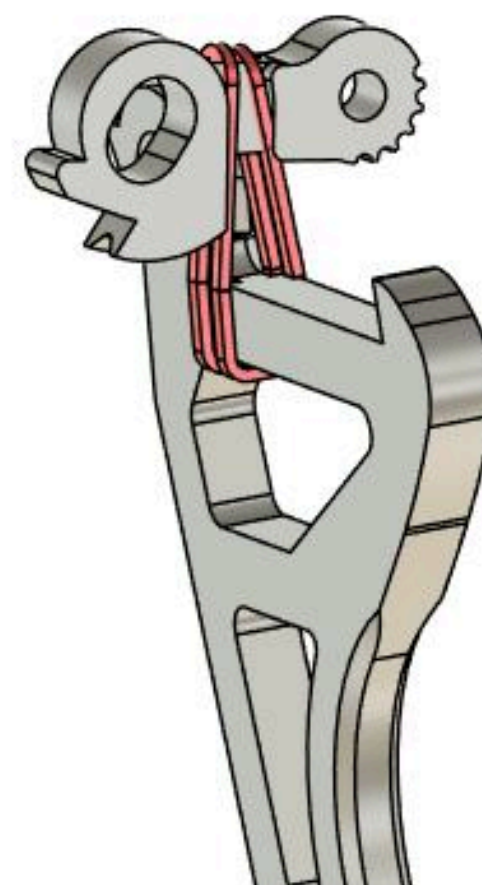
Insert the trigger and hammer pins into the frame half.

2



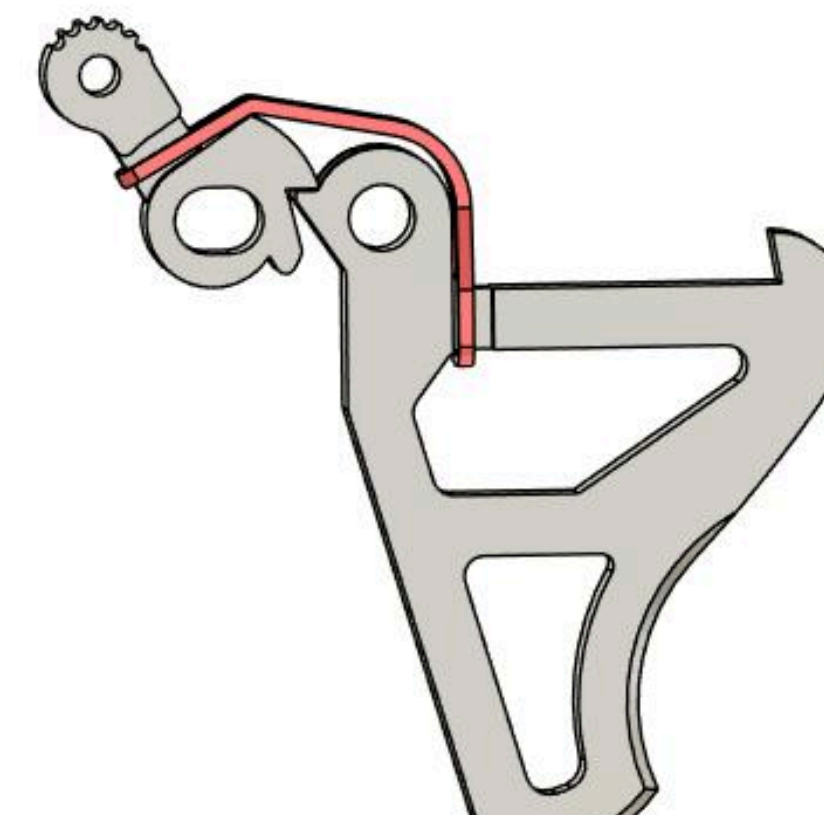
Insert a 25 mm diameter rubber band through the upper hole in the trigger

3



Insert the trigger into the free ends of the elastic band.

4

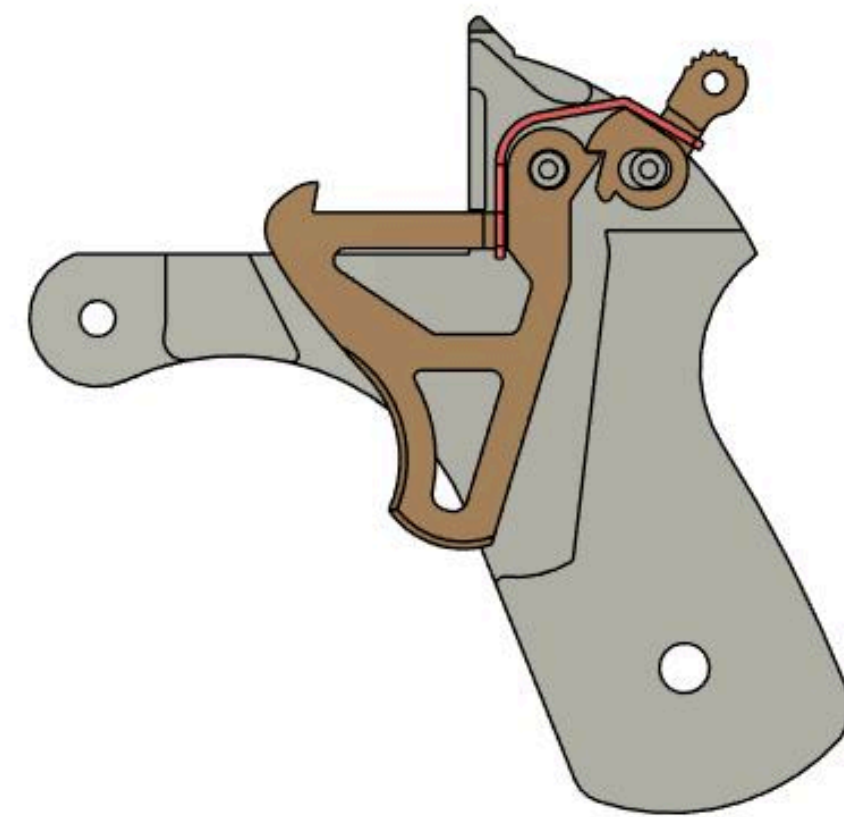


Turn the trigger several times to twist the rubber band into a single loop. Align the trigger and trigger guard as shown in the picture.



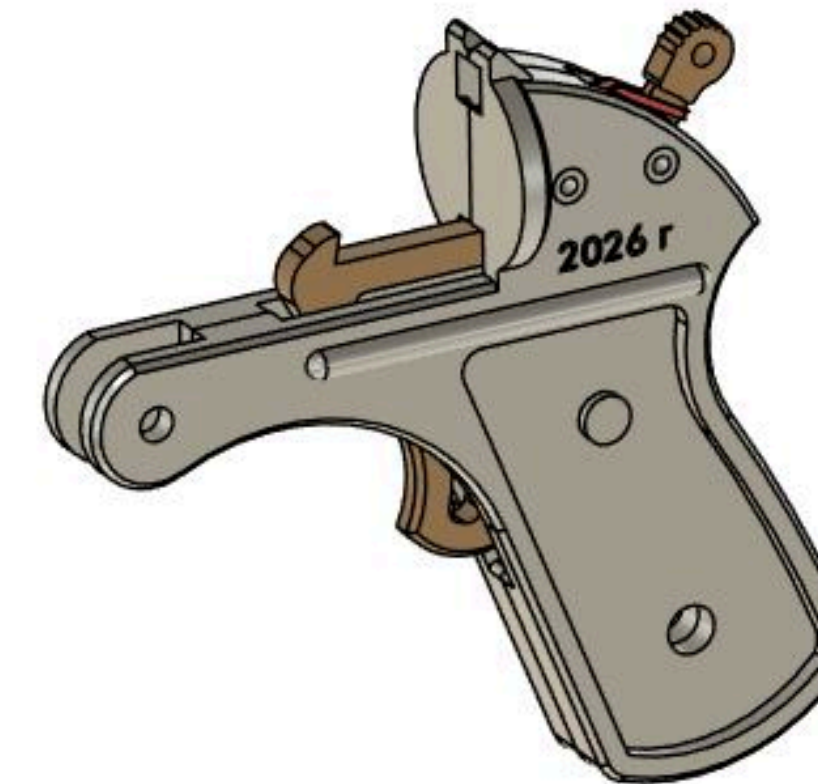
# Step-by-step instructions. Frame and Trigger assembly

1



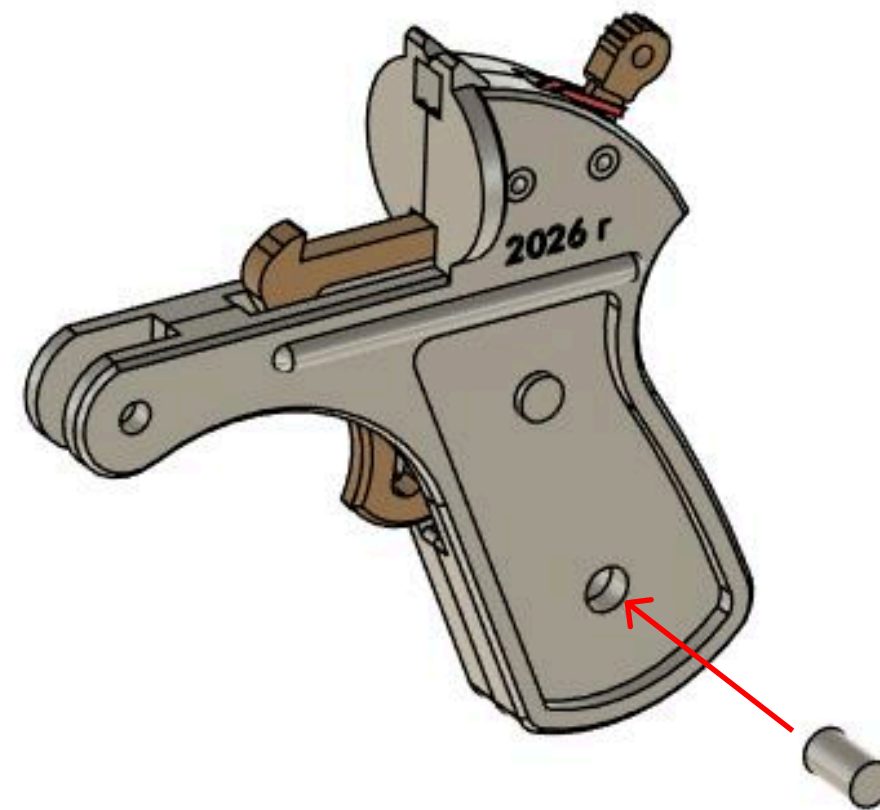
Install the trigger assembly in the frame

2



Close with the second half of the frame

3



Insert the frame connector

4



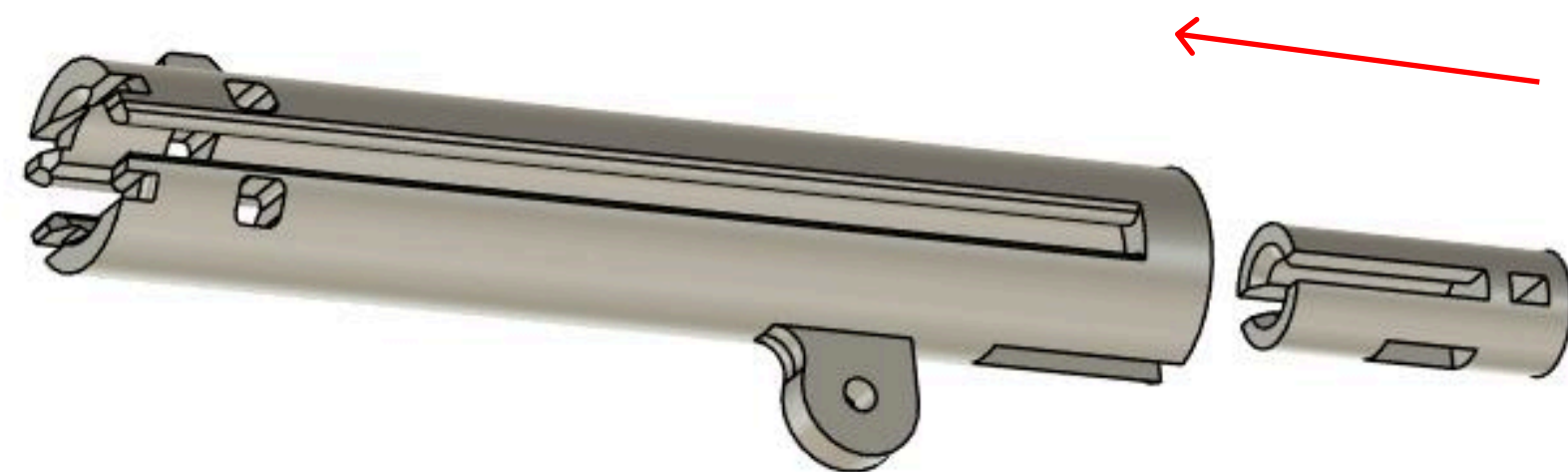
Install the grip panels. You can use double-sided tape if they are not fixed in place.





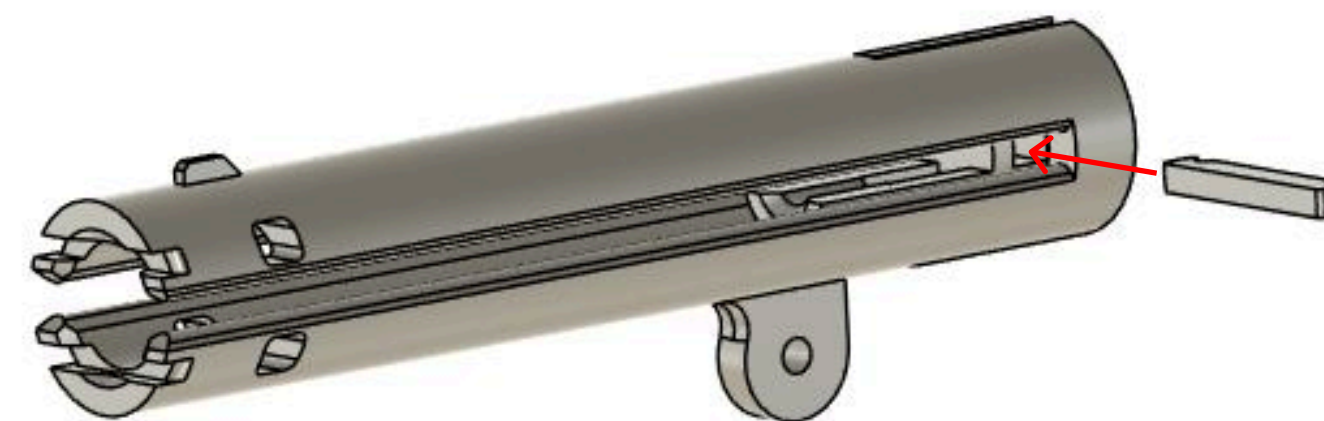
## Step-by-step instructions. Barrel

1



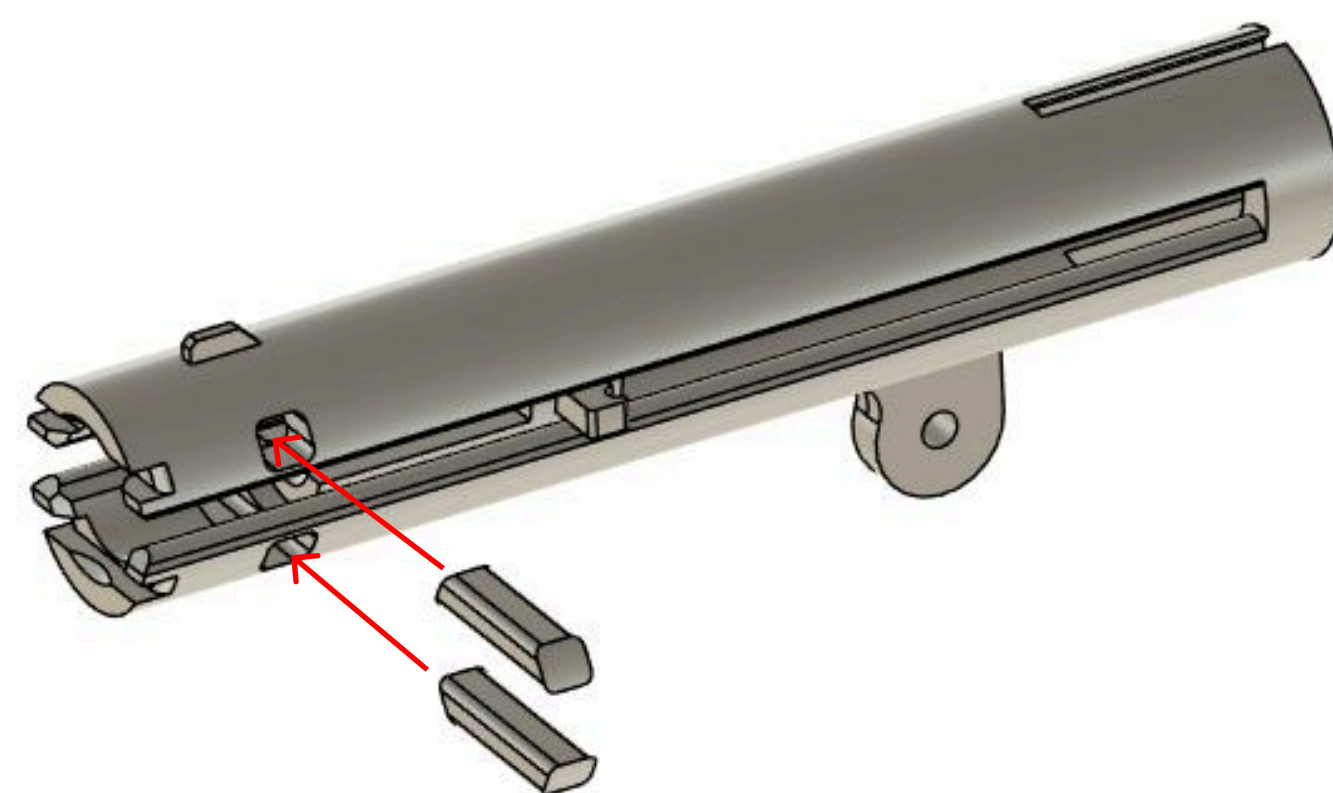
Insert the sling into the barrel, either from the front or, preferably, from the rear. Ensure that the hole for the trigger is located at the bottom.

2



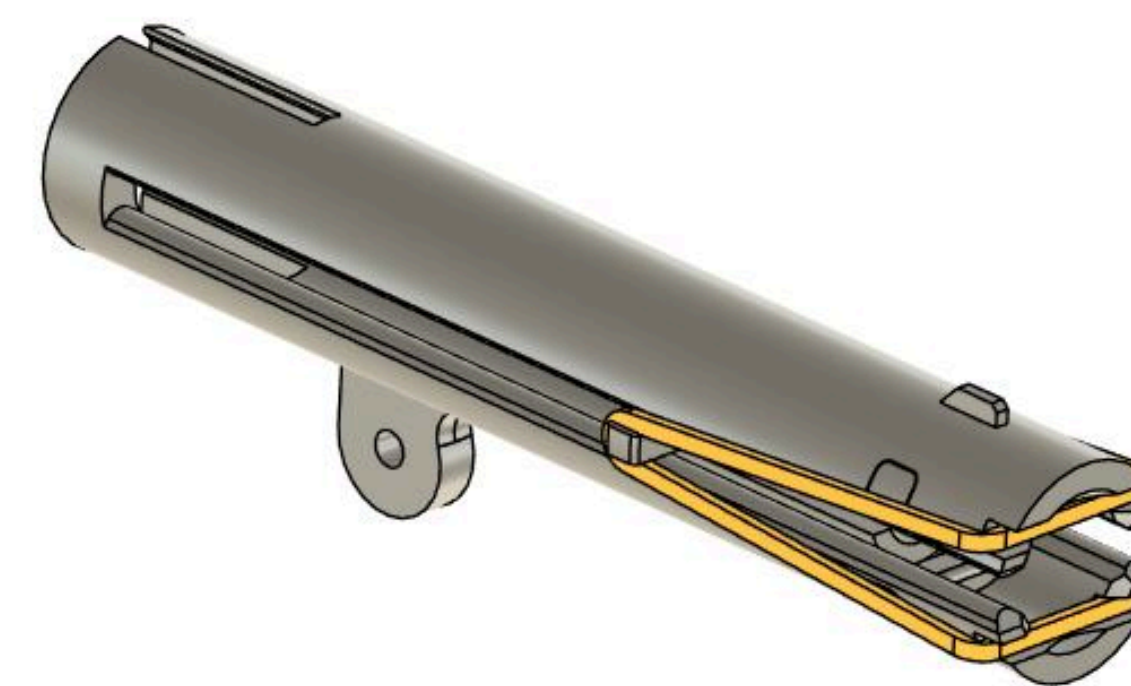
Insert the sling handle

3



Install the sling locks in the barrel.

4

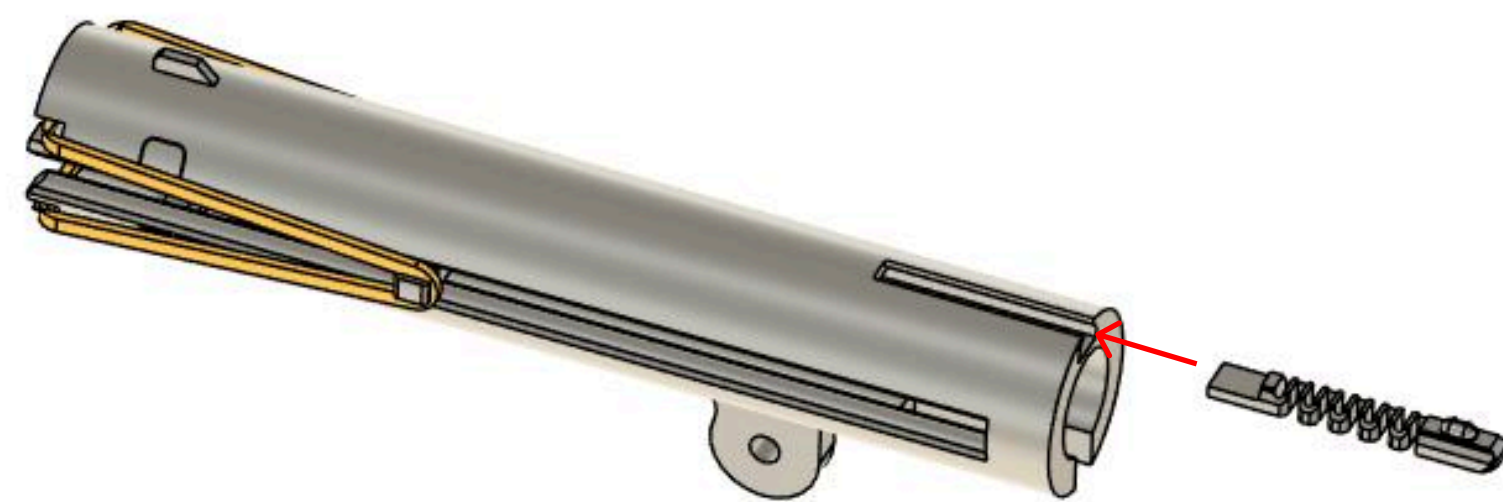


Put on one or more rubber bands. 60 mm rubber bands are suitable, or two 25 mm rubber bands joined together.



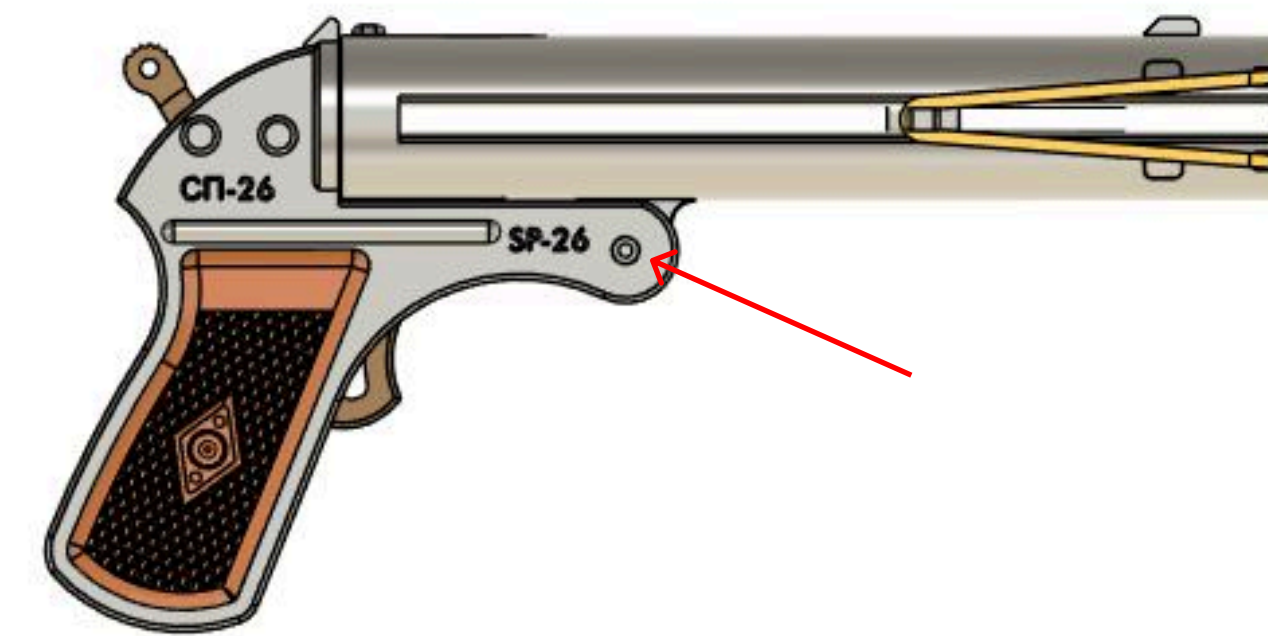
# Step-by-step instructions. The barrel and final steps

1



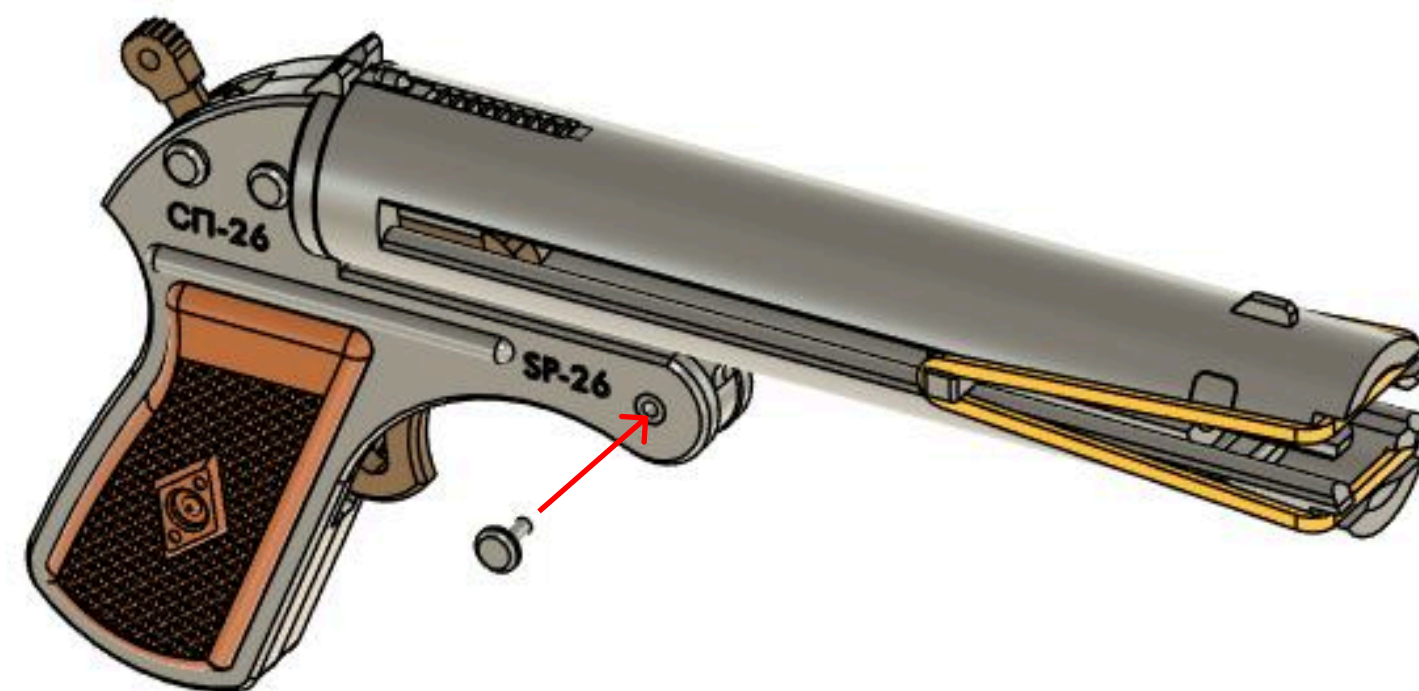
Insert the barrel lock. If it does not lock in place, you can add a drop of glue to its base.

2



Place the barrel on the axle and secure it with a pin.

3



If the hollow pins did not secure the assembly, you can insert retaining pins to create a rivet.

4



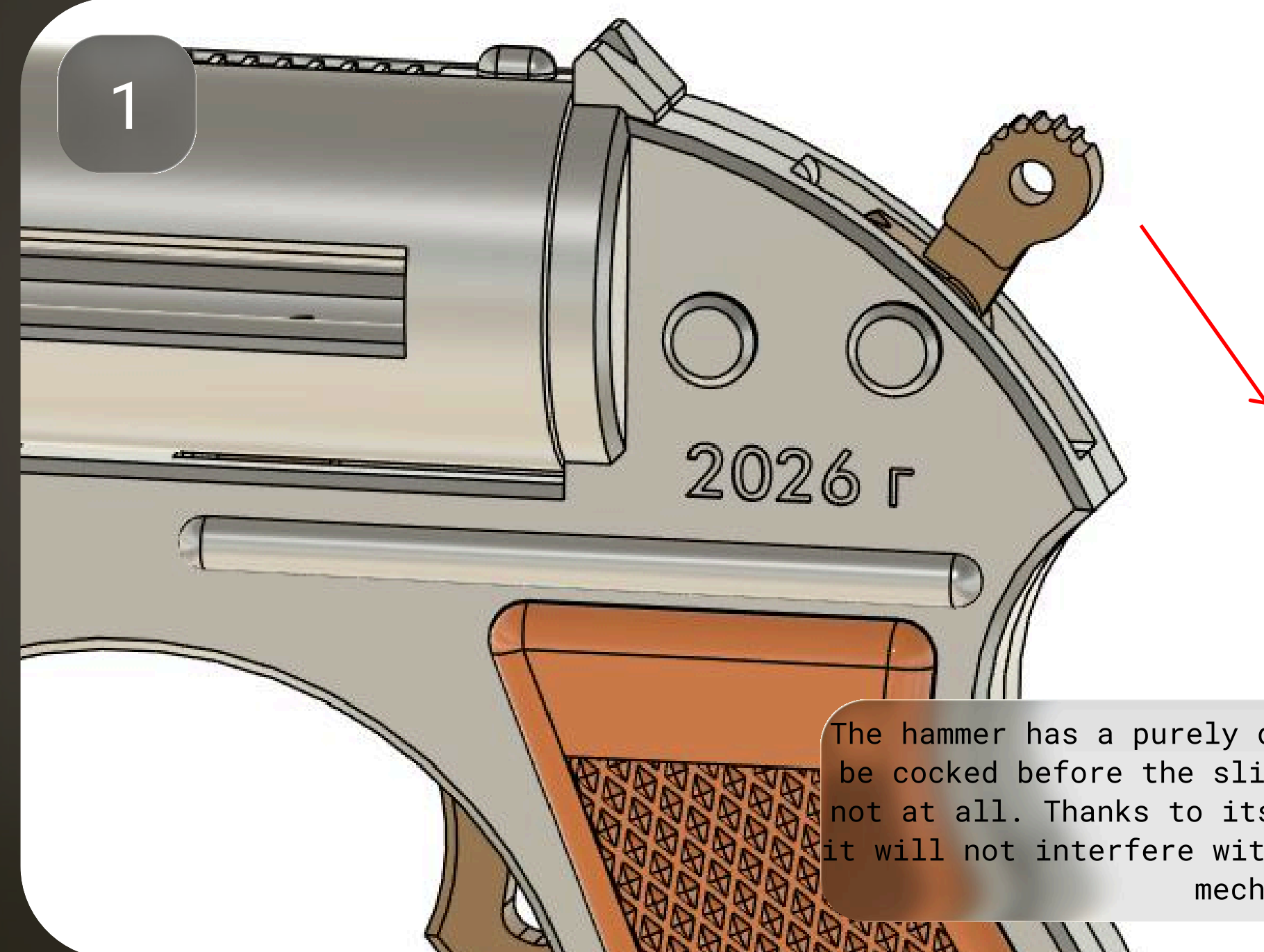
Done. When assembled with a sufficient number of rubber bands, the SP-26 can launch the Whisper-0 up to 15 meters.





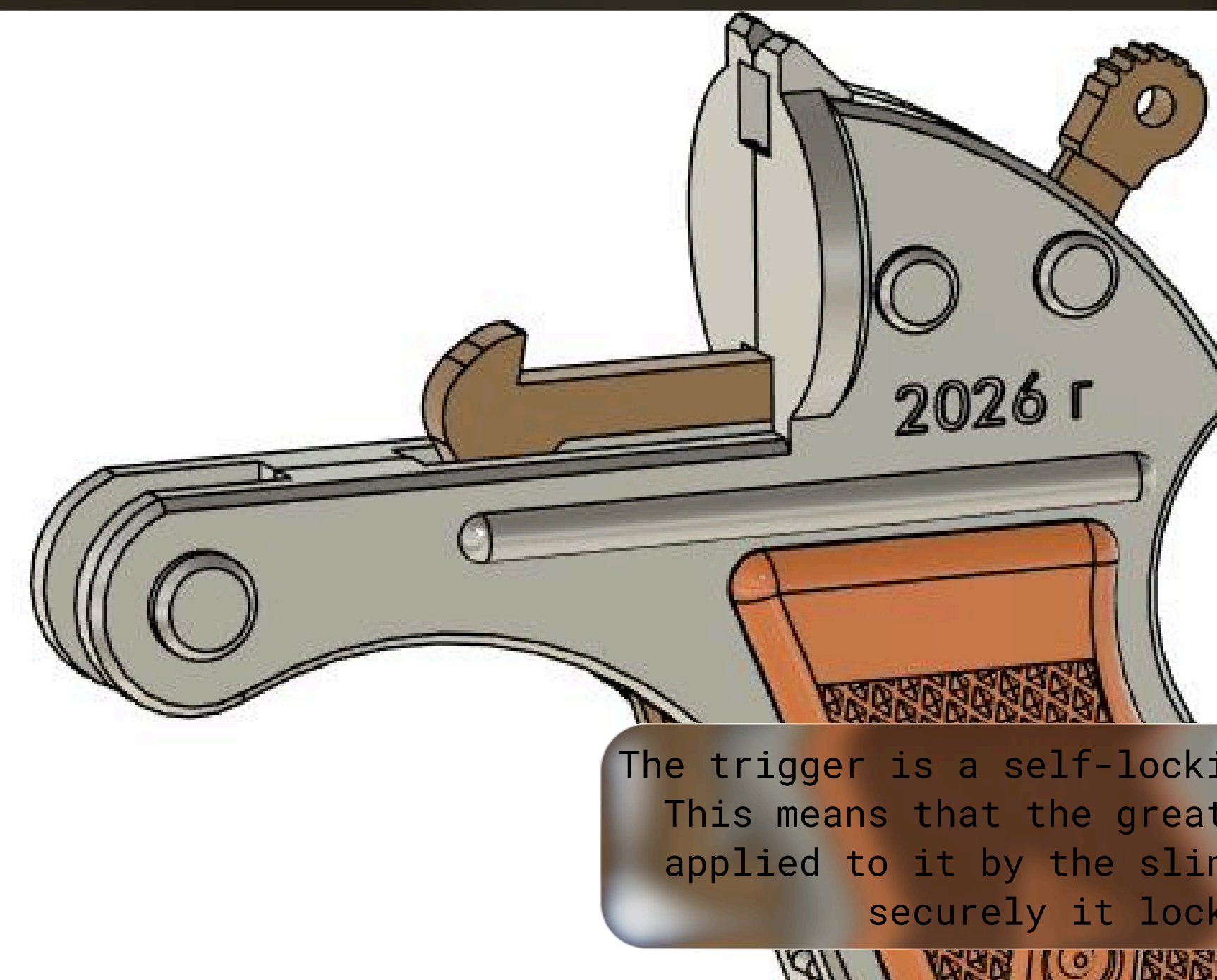
## Operating tips

1



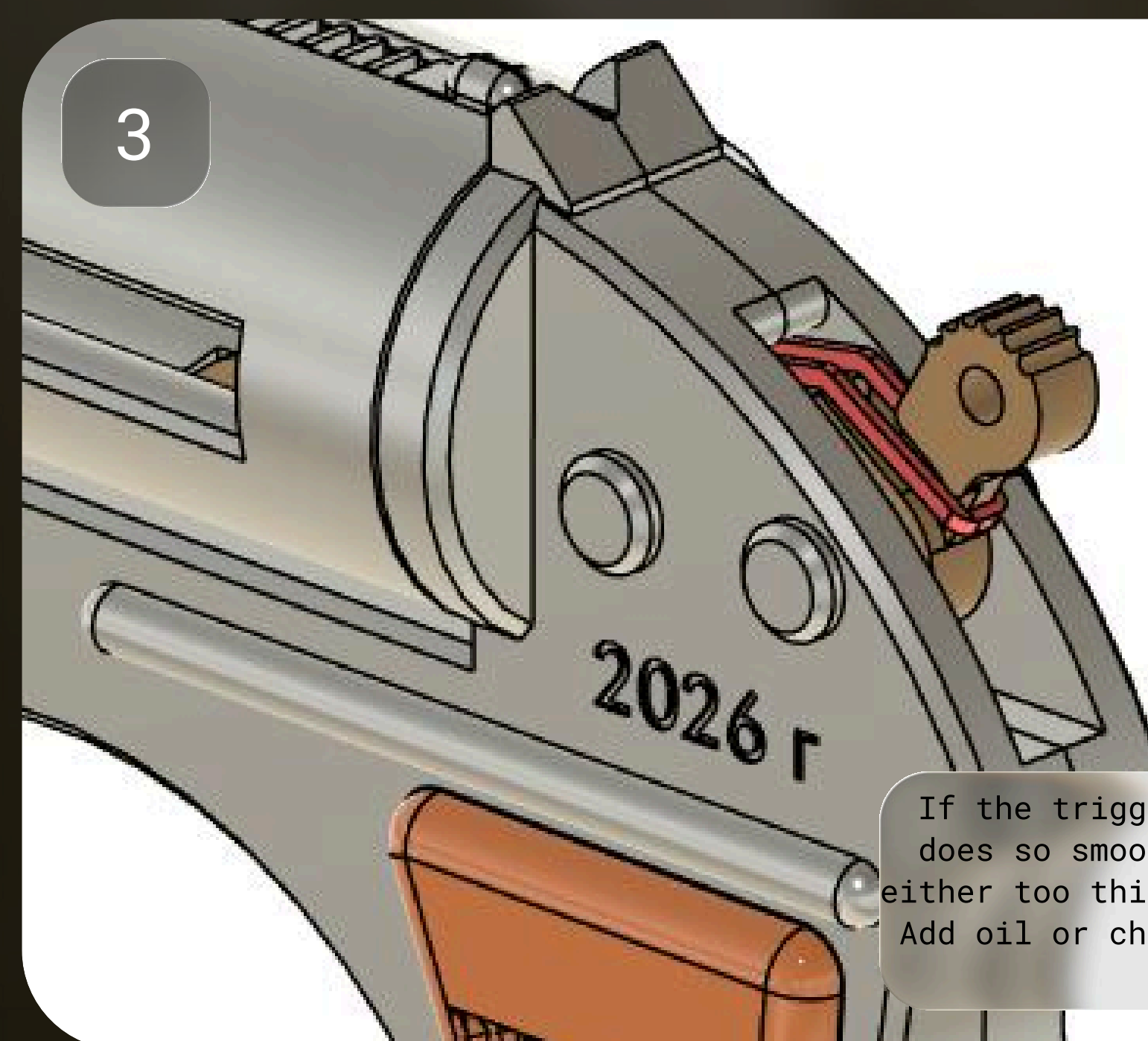
The hammer has a purely decorative function. It can be cocked before the sling is cocked, after it, or not at all. Thanks to its movable axis of rotation, it will not interfere with the operation of the main mechanism.

2



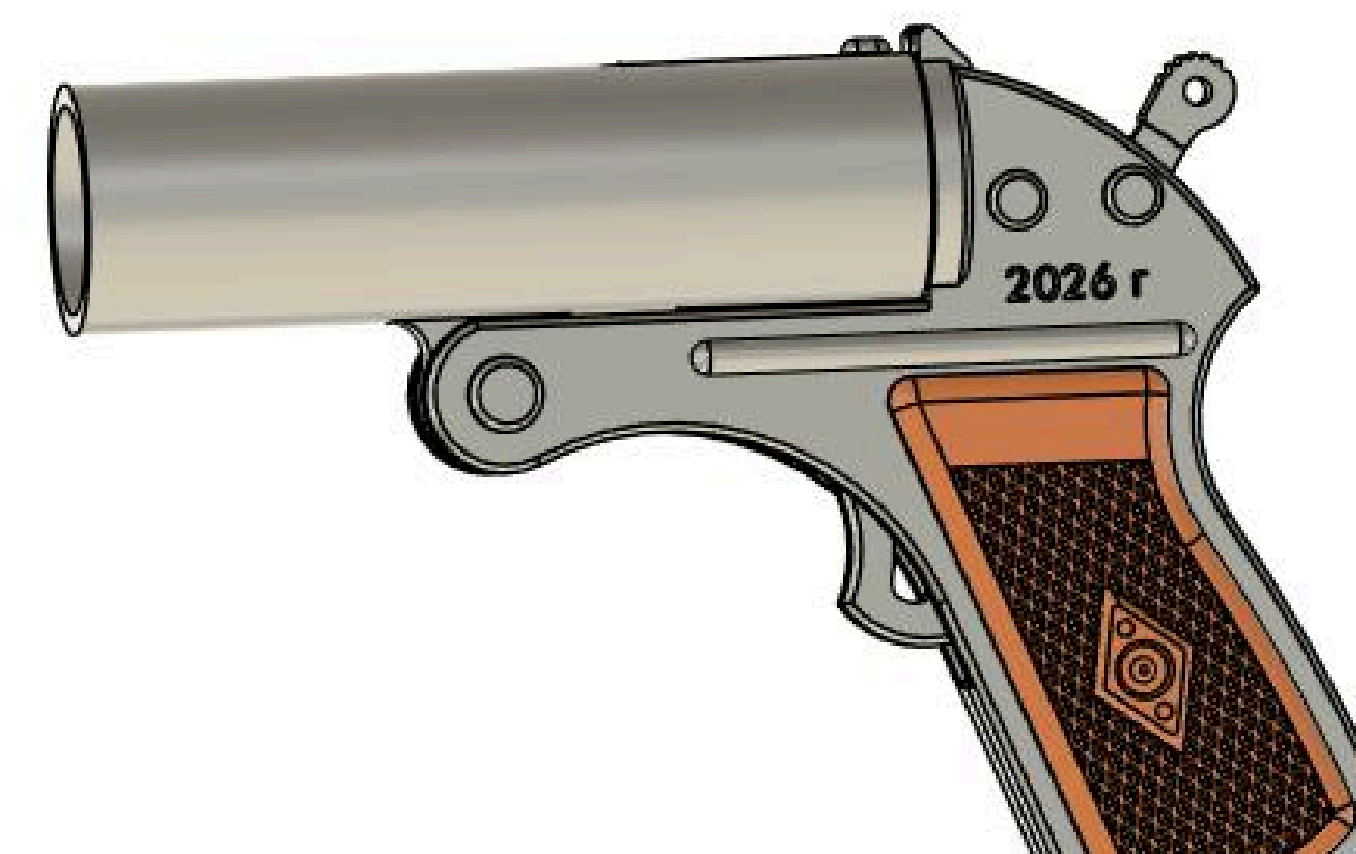
The trigger is a self-locking mechanism. This means that the greater the load applied to it by the sling, the more securely it locks.

3



If the trigger does not release after firing, or does so smoothly, the rubber band is most likely either too thick or rubbing against the frame walls. Add oil or check that the rubber band is installed correctly.

4



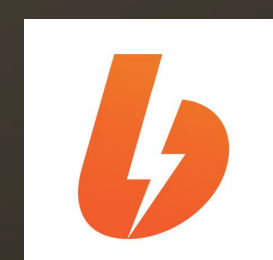
If you don't like or just don't need a working SP-26, but need a prop for a signal pistol, you can install the appropriate version of the barrel.





**Are you confused and don't know how to continue the assembly? Write to us on Discord!**  
**[discord.gg/wpgggqWKmMK](https://discord.gg/wpgggqWKmMK)**

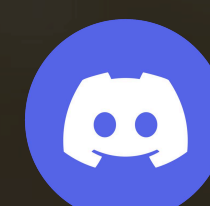
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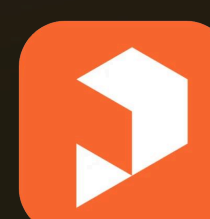
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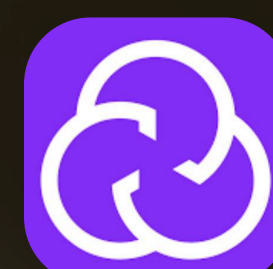
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Михаил Муханов  
Ethan Tucker  
LargeLoving  
Red Boy  
Jared Torrey  
Jim fdg  
soap\_king1  
Louis Pretorius (Reeperu)  
Александр Денисенко





**And another special thank you  
to these wonderful people**

Andrius Thornton - Rich Bro  
soap\_king1 - Bro who helped with the Discord server  
Crowe Jacobs - Burger Bro  
Ryan - Bro tester  
Madiss - Bro artist  
Ekcnheb - The smartest bro  
Leo H - Bambu Bro  
Yununa - Animator Bro  
Mahlow - Musical Bro