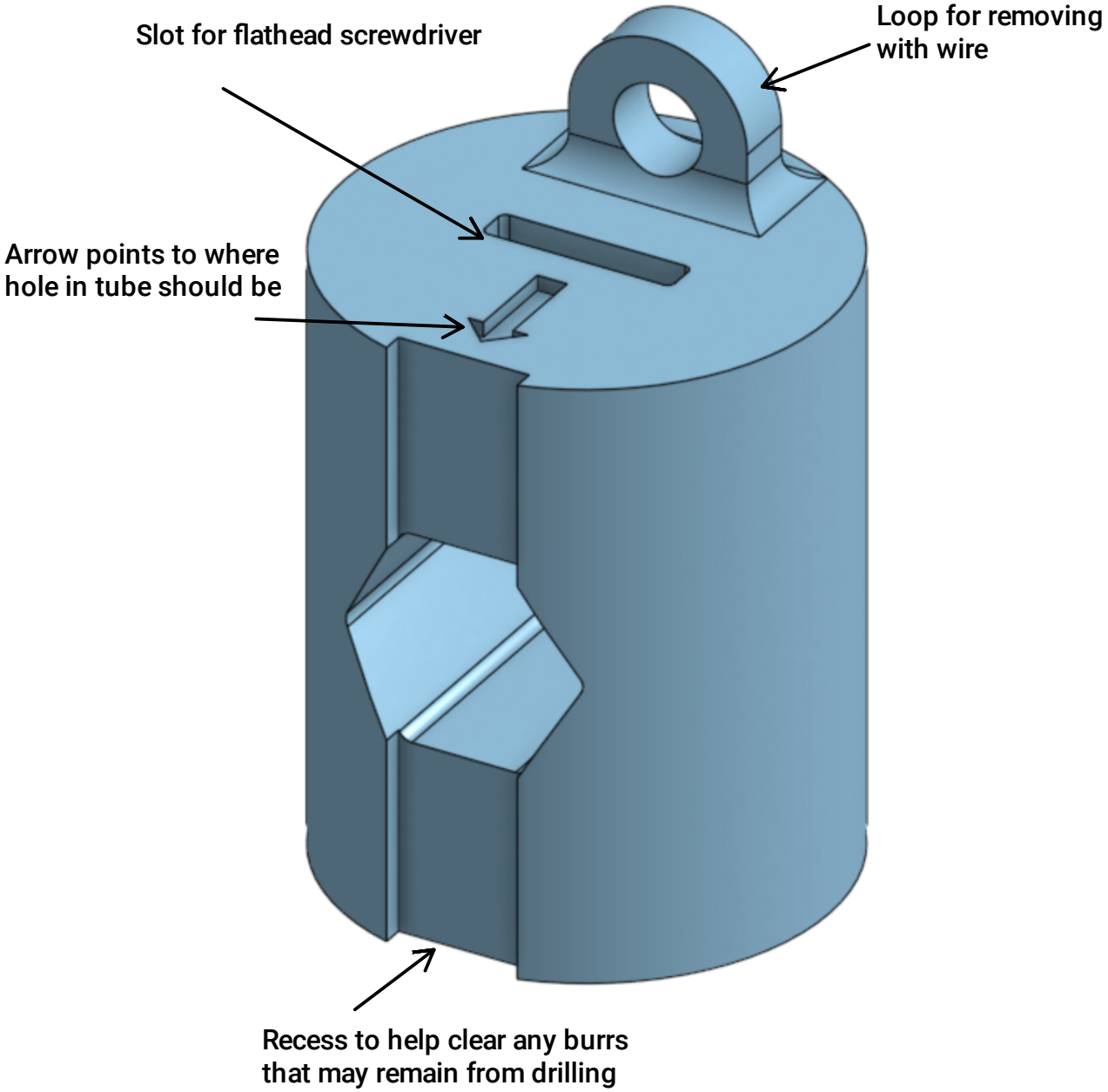
# Field Gate Handle Nut Retainer Thinggy

https://github.com/Filip-Kin/Field-Gate-Nut-Retainer-Thinggy

~~Patent Pending~~ JK lol




## Additional Parts & Tools:

- Threaded Stud Knob (6079K32 McMaster)
- 1/4-28 Nylock nut

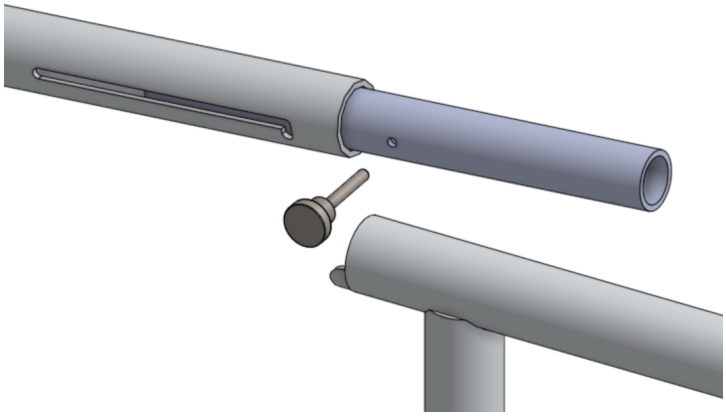
- Long flat head screwdriver
- (optional) Vise grips or channel locks
- (optional) Solid wire with bend to catch loop
- (optional) Precision screwdriver or similar pointy tool

Additional tools may be required to prepare the gate for install

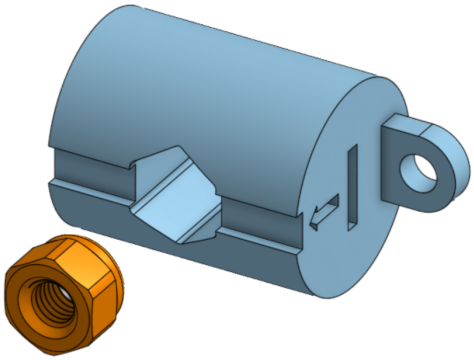
## Recommended Print Settings:

Orientation: as pictured
Material: PLA is acceptable
Infill: 20%
Shell Thickness: 4 layers
Supports: None required

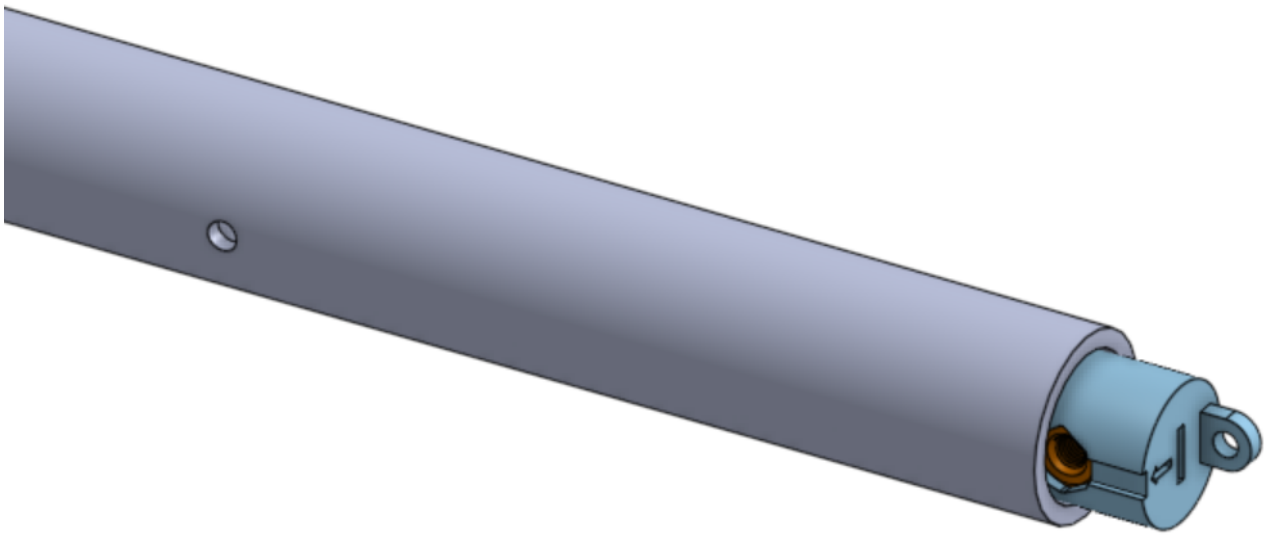
1. Remove the current knob (or bolt) from the gate. This may require a cutoff wheel, grinding, etc. Then drill out the hole in the tube that slides to 0.25".



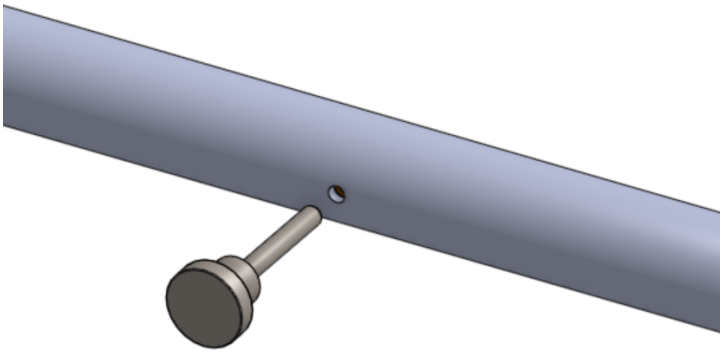
2. Insert a 1/4-28 nylock nut into the 3d printed part with the nylon insert facing inward.



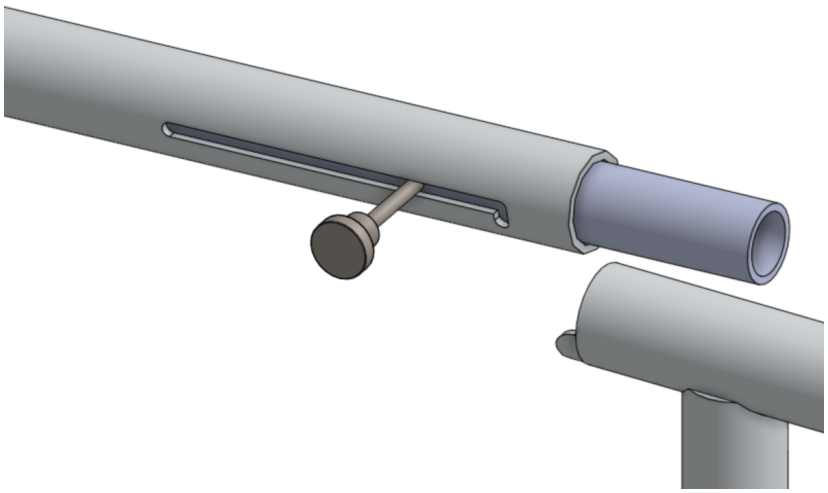
3. Slide the 3d printed part into the tube, the arrow should point towards the drilled hole. A flathead screwdriver can be used to help push it in and align it correctly. If you insert the assembly too far and it's stuck, you can use a wire to catch the loop and fish it out.



4. At this point you can thread the knob in partially to make sure you have everything lined up, and to hold it together until you slide it into the rest of the gate.



5. Once the rest of the gate is ready, you can remove the knob and slide the inner tube into the outer. Then thread the knob back in. It's recommended to keep the gate as close to level as possible to keep things from sliding.
If the nut becomes misaligned during this process, you may be able to use a small screwdriver through the 0.25" hole to save the situation.



6. Tighten the knob until the thread hits the inside wall of the tube. If tightening by hand you will feel more resistance at that point, and if using the specified knobs there will be a little less than 7/16" of thread remaining between the outside tube and bottom of the knob.