

Disassembling, Cleaning, and Reassembling your Ruger 10/22 Rotary Magazine

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Among the skills you should have, being able to disassemble, clean, and reassemble your Ruger 10/22 magazine is important. The Ruger 10/22 rifle is a magnificent piece of engineering. A great firearm, and wonderful American made product. Easily personalized, it can be modified from a bull barreled tack driving machine to a "Tacti-Kool" weapon, at your whim or discretion.

The rotary magazine is another fantastic piece of engineering. But sometimes it fails to feed well. These malfunctions are primarily caused by a dirty magazine. 22 rimfire ammunition is notoriously dirty and causes all sorts of mischief in the works. Though it looks complicated, it really isn't difficult to disassemble, clean, and reassemble the the Ruger rotary magazine. We are going to do a step by step process to make sure you can disassemble and reassemble your 10/22 magazine.

Disassembly



The first thing to do is make sure the Ruger 10/22 magazine is unloaded.



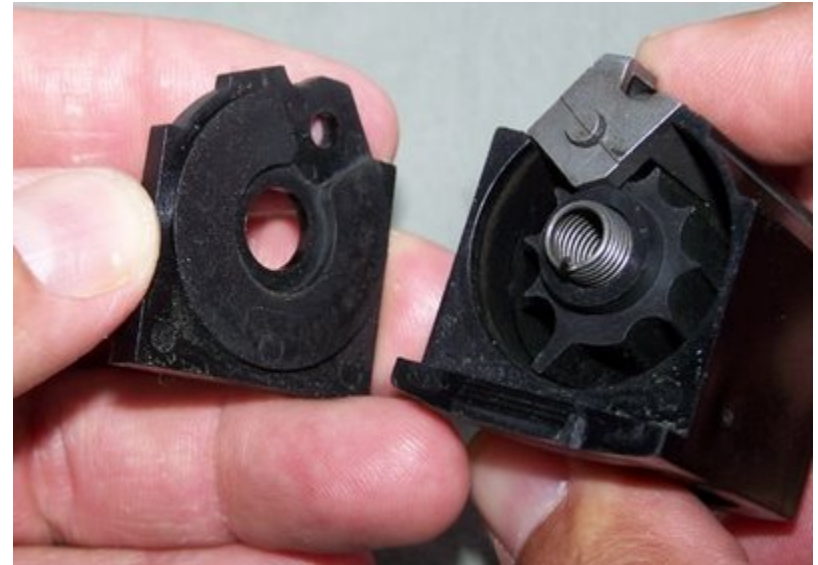
Using a 9/64th allen wrench, loosen the screw at the front of the magazine. Don't remove it completely yet.



Push the cap nut out with the screw. Keep a finger on it to keep it from falling free.



Remove the cap nut, and...



Remove the magazine's end cap.



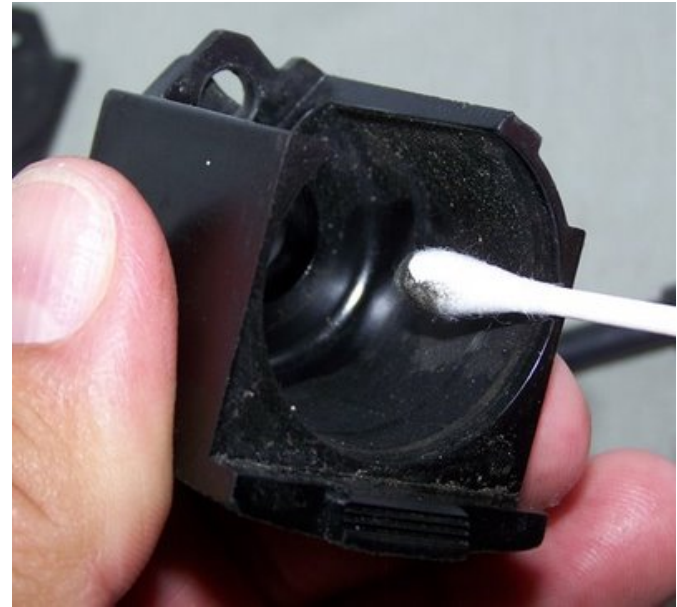
remove the screw.



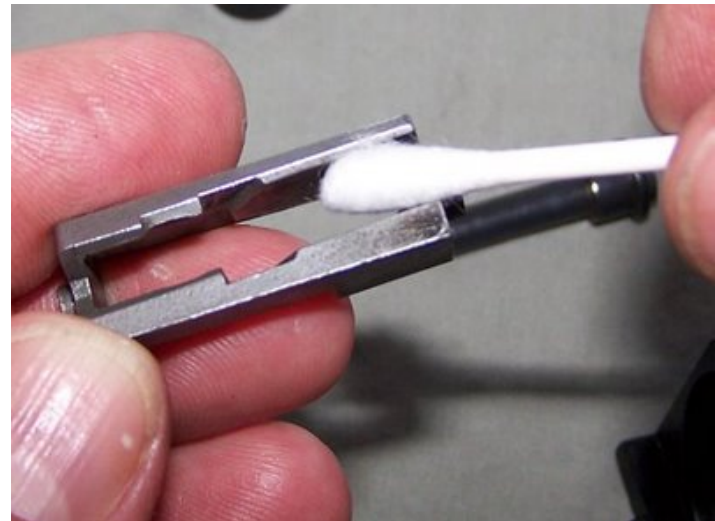
Remove the rotor and spring assembly.



Note the little tab on the end of the spring, and the long vane on the rotor.

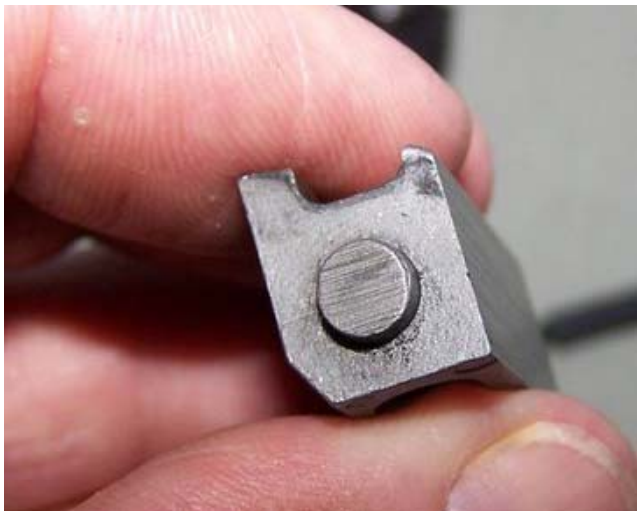


Remove the feed lips.

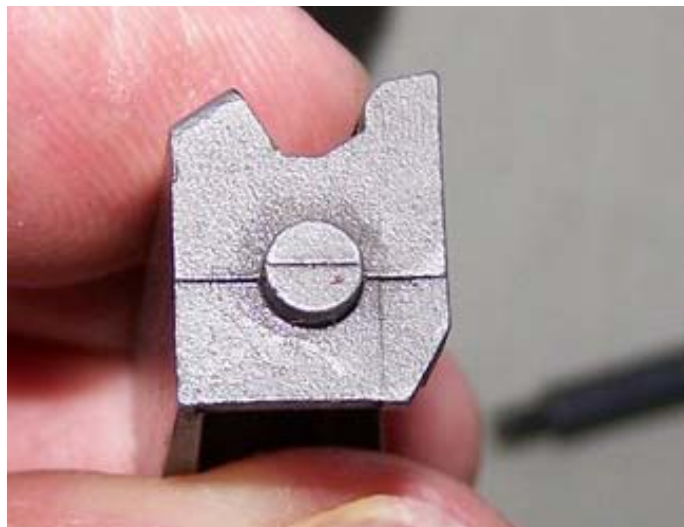


Now the magazine is completely disassembled. Inspect all the parts for wear or damage, though unless it has been abused, it should be fine. Get some cleaning patches, some Hoppes #9, and a q-tip. Clean everything thoroughly.

Reassembly



You will notice that the feed lips have a large end and a...



a small end.



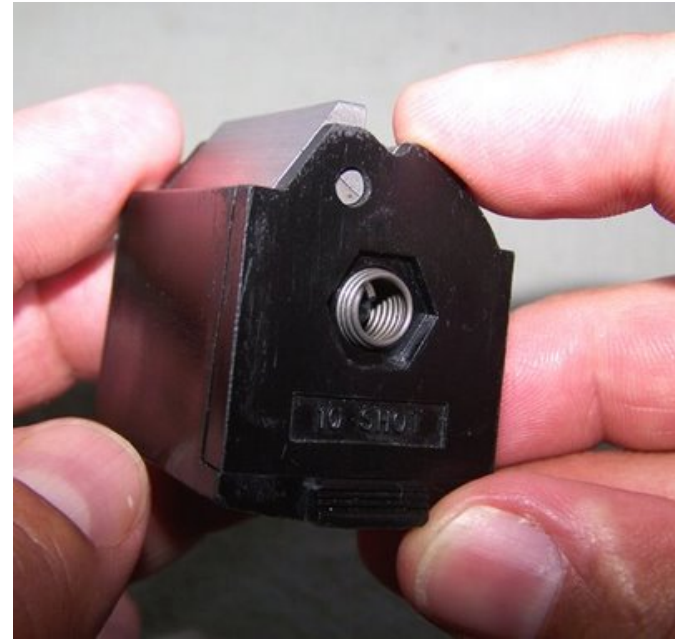
Replace the feed lips, the large end goes in first, and fits in the large hole.



Insert the rotor until it seats , spring end to the outside.



Once you have the rotor in, turn it clockwise until the long vane bumps up to the feed lips.



Replace end cover. The spring should extend out, and also take note of the spring end tab.



Take note of the small hole in the end cap nut. The spring's tab must be inserted in that hole to allow the spring to be wound.



Align the spring tab with the hole and slip it on.



Rotate the end cap nut eight notches (flats on the hex) clockwise, and press it in place. I found it easiest with my fingers holding the nut and the other hand rotating the magazine. Then I used my thumb to help press the nut in place.



Like this.



Now, gently tighten the screw making sure it threads properly. You do not need to wrench it down like a lug nut!



Load all ten rounds and check that the magazine operates properly, that all rounds cycle through without hesitation. Use the eraser end of the pencil to quickly strip the cartridges from the magazine. They should all eject easily, and the magazine should pop a new round up flawlessly. If necessary, tighten the end nut one flat at a time until reliable feeding commences. The Ruger 10/22 magazine requires no lubrication. Any oil will cause the magazine to gum up from debris. If you absolutely must because you are the type that must lubricate things that move, then use powdered graphite.

Regards,
Albert