



Ruger MARK III (22/45) Magazine Disconnect Bushing Installation Instructions V2.02

www.tandemkross.com

For more info or support contact info@tandemkross.com

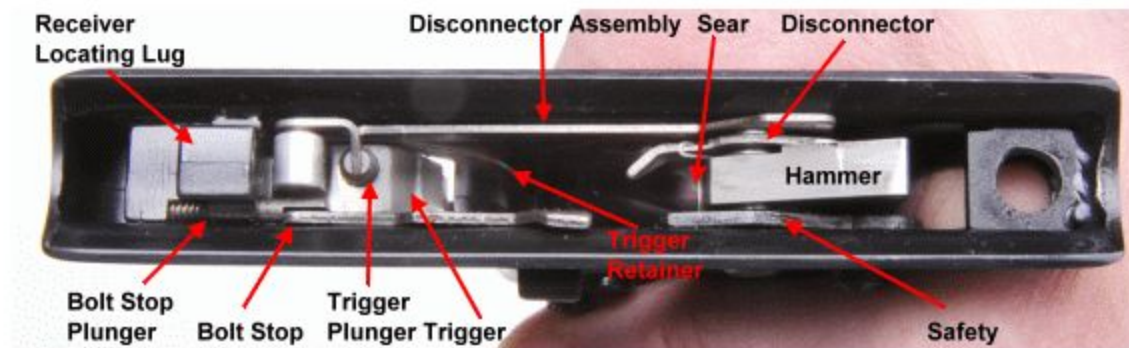
Attention:

Before you begin be certain that the gun is clear and safe. A good understanding of how to take the Mark III down for field cleaning and knowledge of how the gun operates are required to perform this installation. These instructions are for the Mark III 22/45 without removable grips. Your model may vary. Please use common sense when working on your own gun if your model is different. The basic steps are the same, but some models require the removal of grips or that the pins are removed in a different direction. Ruger provides great diagrams of each model on their website and YouTube is a great source for instructional videos.

Some items that come in handy for this process are a small Allen wrench or small drill bit will work if you don't have a small punch. Also a roll of duct tape or similar can come in handy when pushing out the necessary pin. Any small jeweler's screwdriver or pick to assist with spring placement. Also taking some pictures before you begin can be a huge help later on.

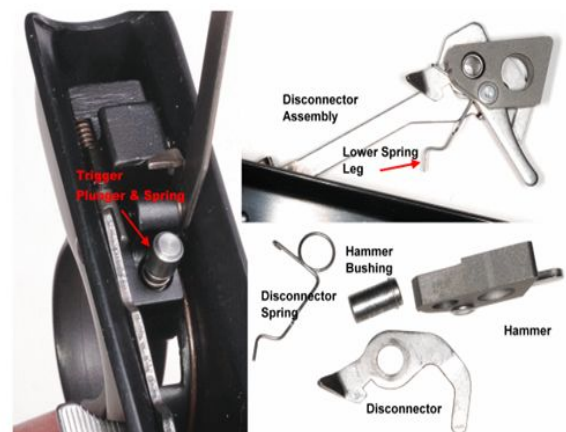
For a complete visual presentation on how to install the TANDEM KROSS magazine disconnect bushing you can visit here: <http://www.youtube.com/watch?v=53d8ucGbcqM>

1. Disassemble the Mark III down to field stripping level. Separate the Barrel from the receiver. Holding the receiver in your Right Hand you should be able to identify the following components:



2. Put the Safety in the ON Position. This will keep the sear from rotating out of place. Move the Hammer Pin but leave it captured by the safety. from RIGHT TO LEFT. (In the picture above it would be from TOP to BOTTOM) Locate the Hammer pin. It is the topmost pin in the receiver. Looking inside the receiver take note of the position of the springs.

There is a retainer spring on the safety side that is between the safety and the receiver frame that rides in a cut out in the hammer pin. It helps to gently pry this spring out of the cutout in the pin before trying to remove the pin.



3. Once you have moved the pin, the hammer and the magazine disconnect with the factory bushing will rotate out of the top of the receiver. As in the image above it will be connected to the Disconnecter Arm. At this step be sure that you are careful with the Disconnecter Arm as it has a tendency to flip up. This is not an issue, but the Trigger Plunger has a little spring behind it and can pop out and be difficult to locate.

4. In the image above you will see the various parts that make up the hammer assembly. We are replacing the Disconnecter Spring, the Disconnecter and the Hammer Bushing with the new Hammer bushing. You will not need to install the spring or the disconnecter or hammer bushing back into the firearm.

5. Insert the new bushing into the Hammer so that the larger diameter ends of the bushing sit into the space on the hammer:



6. To re-install the hammer the bushing will be on the RIGHT hand side of the receiver away from the safety with the tail on the hammer to the rear of the firearm. Be careful that the sear remains locked in to the safety. If it flips backwards you will need to re-align it before you can continue.

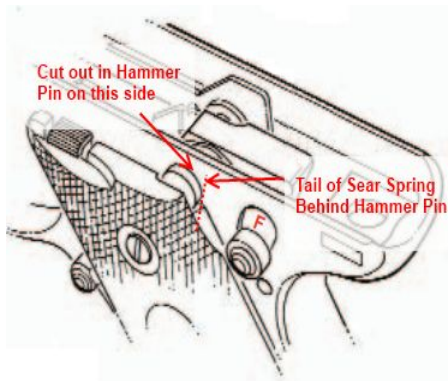
7. You may need to rotate the sear up and place it into position in the notch in the safety. This will help hold it in place and keep the proper orientation. Check that the SEAR and HAMMER are in alignment. The most common install problem is that the sear has flipped backwards and no longer touches the hammer. Check this before putting the barrel back on.

8. The spring that you pried out of the hammer pin is important. It will be resting up against the receiver and will need to be pulled back behind the pin once it is inserted.

9. Insert the hammer pin into the receiver from LEFT TO RIGHT. The opposite way we moved it out. Starting on the side where the safety lever is situated. The tail of the sear spring should be on the back side of the pin toward the rear of the firearm. You may need to pry this back gently so that as you insert the hammer pin it rides along the rear of the pin.

10. Ensure that the hammer pin goes through the Safety then through the bushing and then through the Disconnect Arm and finally seats properly in the hole in the receiver.

11. Once you get the pin into place the spring will make a click as the pin seats home. The notch or cut out in the pin will be on the LEFT hand side (Safety side) when installed properly.



12. Test to ensure smooth movement of the hammer. It should move smoothly on the new bushing and you should be able to manually reset the sear and actuate the trigger assembly. You can test the movement of the hammer by hand by pulling the trigger and actuating the hammer. It should move smoothly and reset on the sear. The install is complete at this point and you are ready to assemble.