

Sully 870 Ejector System (Patent Pending) Installation Instructions

**This installation should only be performed by a
Certified Gunsmith or Certified Armorer.**

1. Start by removing the broken factory ejector systems. Clean out the inside and outside of the receiver, to include the 2 factory rivet holes. Make sure to remove all solvents and lubricants.

You should now have a receiver that has no ejector system in it, it should be clean and free from all solvents/lubricants, which makes it ready to install the new ejector system.

Inside View: Factory ejector system removed.



Outside View: Factory ejector system removed.



2. Remove the Sully 870 Ejector System from the package. Inside the package is an assembled ejector system that includes 2 installed screws, the ejector spring which is held in place by a small rubber band (which can be discarded before installation, as the rubber band is only to hold the spring in place during packaging and shipping.)

Also included is a 2mm Hex Wrench for installation of the screws.

The Sully ejector system comes preassembled.



This is done so you see how it is assembled, and to confirm that all parts properly fit together. You will notice that there are 2 lengths of screws, the long screw is assembled in the front, and the short screw is assembled at the rear.

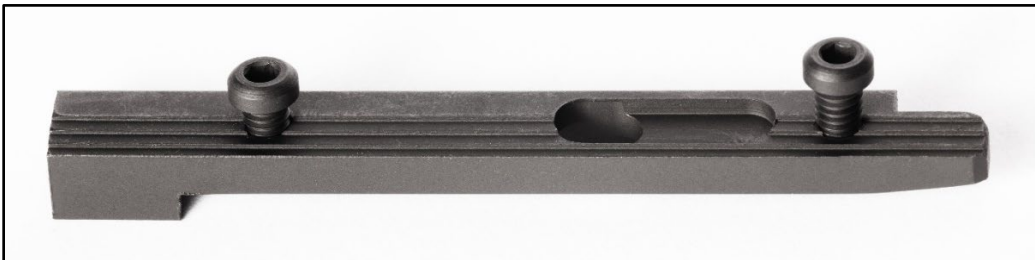
Remove the rubber band that holds the ejector spring. You can discard the rubber band, as this is strictly to hold all parts and the hex wrench in place for packaging and shipping.

When the rubber band is removed, the hex wrench and ejector spring will be loose. You will see that the ejector spring is assembled so that it passes through a window in the ejector track, and that the front tip of the ejector spring is installed so it fits into a machined pocket on the backside of the ejector track, as this is how it needs to be installed when screwing it into the receiver.

Ejector System, top view with screws installed



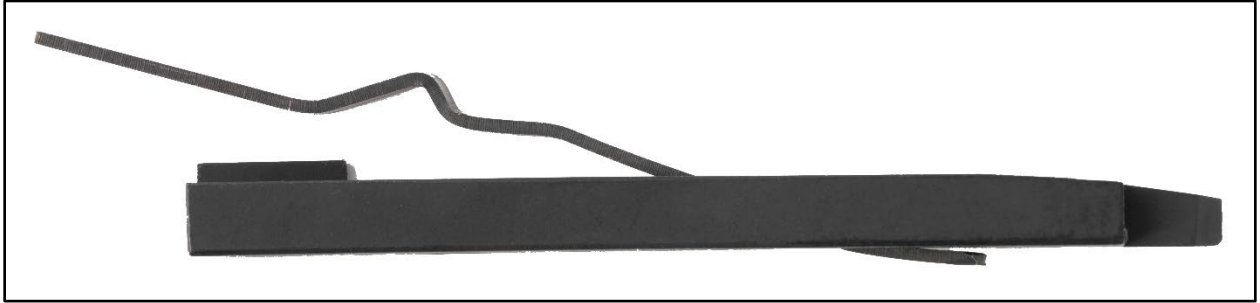
Ejector with screws. Long screw on the front, and short screw in the rear.



Ejector only, top view with no spring. Notice the ejector spring track, and pocket that the ejector spring is installed through.



Ejector system, bottom view as if you're looking up into the receiver from underneath. Note that the ejector spring passes through the pocket window on top, and is tucked on the backside into a machined in pocket.



Ejector system, view of backside showing how the spring tucks into a pocket.



The Sully Ejector System uses 2 screws. A long screw at the front, and a short screw at the rear.

3. Using the included 2mm Hex Wrench, carefully remove both screws.
4. Thoroughly clean the ejector, ejector spring, and 2 screws to remove any packing/preserving oils, something like denatured alcohol will work.

Note: It is our recommendation that you dry fit all parts before final installation, this ensures that all parts fit properly before final installation when a thread locker should be used on the screws.

Once you have dry fit all parts, you are ready for final installation.

Picture of the Ejector Spring and how it fits through the pocketed window.



Final steps for installation:

5. Use a small amount of a medium strength thread locking paste (Blue medium strength should suffice). Apply the thread locking paste to both screws, and the holes of the ejector where the screws will be installed.
6. Place the ejector spring through the ejector, making sure the front tip of the ejector spring is properly aligned in the machined out pocked on the backside of the ejector, and hold the ejector spring compressed at the rear of the ejector spring track of the ejector, this holding the spring in place helps ensure it is properly aligned and needs to be held properly aligned during installation.
7. Install both screws into the holes of the receiver. Make sure you put the short screw to the rear, and the longer screw to the front. With the screws in place, carefully put the ejector with ejector spring already installed, into the receiver, and hold in place, making sure you keep the back of the ejector spring compressed in the ejector spring track groove of the ejector.
8. Using the included 2mm hex wrench, carefully align the ejector until the screw holes are in proper alignment with the screw. Carefully rotate the screw counter-clockwise going in reverse to confirm that the screw is properly aligned with the threaded screw hole. Once you are sure the screw is in proper alignment, you can slowly and carefully start to rotate the screw clockwise to go tighter, but stop short of fully screwing it all the way tight.
9. Install the other screw, and carefully rotate the screw counter-clockwise going in reverse to confirm that the screw is properly aligned with the threaded screw hole.
10. With both screws started into their screw holes properly aligned, all while holding the ejector spring compressed in the ejector spring groove track of the ejector, carefully continue to tighten the screws finger tight until they are fully tightened, again these only need to go finger tight.

11. Once both screws are tightened into place, carefully lift your finger off the back of the ejector spring. Confirm that the ejector is fully tightened into place by the screws. Confirm that the spring is also properly tightened into place by compressing down on the ejector spring and release it a few times, if the spring is properly aligned it should not bind.
12. Once everything is fully and properly assembled, clean off any excess thread locking paste.
13. Once cleaned up, we recommend that you reassemble the entire shotgun.
14. With the shotgun reassembled, test cycle the action using Dummy Rounds to confirm that the Dummy Rounds will eject properly. If it works correctly, then we recommend that you let the thread locker set up overnight before shooting live ammunition.