

INSTALLATION OF THE SHOOTINGSIGHT LLC ARX-100 TRIGGER

CONTENTS. This package contains a hammer, a trigger assembly, a brass washer, a plastic spacer, and a trigger spring. It also includes installation tools: a headed alignment pin/metal tube, a screwdriver with a split tip, and a small tube of grease/appliator tip. If any component is missing or damaged, do not try to install a partial kit, or disassemble the trigger to attempt repair. Contact the vendor for a replacement. Also enclosed are these instructions and a warranty. The installer will need to provide a hammer, a 3/32 pin punch, and safety glasses / personal protective equipment.

1. **WARNING. Always verify the rifle is unloaded before working on it.** Some of the items in the trigger group contain springs or other parts that can pop out unexpectedly. Wear safety glasses when working on trigger group parts. These instructions are meant as a guide for a qualified armorer or gunsmith. They are not meant as a complete procedure for someone who is not properly trained to do trigger work.
2. **Disassembly.** Assure that the rifle is unloaded. Separate the upper and lower receivers. Cock the hammer.
 - a. Use the headed alignment pin or the punch to drive out the pivot pin for the drop safety, located directly above the safety selector.
 - b. Rotate the safety so you can see the roll pin holding on the right side selector. Drive the roll pin out with the 3/32" punch.
 - c. Place your hand over the left side selector to contain the small detents in the left side selector, and push the safety cam out from the right.
 - d. Bring the hammer forward (do not let it snap forward), then drive out the hammer pin. Remove the hammer and two hammer springs. Note the orientation of the springs, with the short arm against the hammer body, and with the coils winding around the front of the hammer hub.
 - e. Drive out the trigger pivot pin and remove the trigger and trigger spring.
3. **Insert the ShootingSight trigger.** Apply a thin film of grease in the trigger pivot hole and on the trigger pin, and assure a smooth fit of your trigger pin in the trigger. Place the provided trigger spring, around the plastic bushing, with the flange of the bushing on the outside. Insert it in the right side of the trigger well, and hold it in place by inserting the trigger pin or the drop safety pin half way. Insert the brass washer on the left side of the trigger well, and hold it in place by inserting the other trigger/drop safety pin part way from the left side. Insert the trigger between the two pins; slide them out just enough to allow the trigger to fit, while the pins hold the bushing/spring and the washer in place. Once the trigger pivot hole lines up, push one of the pins all the way through. Pull the trigger several times to assure it moves freely without binding and returns forward.
4. **Insert the ShootingSight hammer.** Use the pin punch to drive the small 3mm pin out of the OEM hammer. This pin has grooves around both ends for the hammer springs to seat into. Place this pin in the ShootingSight hammer. Place the two OEM hammer springs on the hub of the hammer with the short leg towards the hammer, and oriented such that they wrap from the front of the hub. Place the short leg in front of the 3mm pin, so the hammer can be installed without spring tension. Insert the hammer, pressing down on the trigger slightly to get the pivot hole to line up, and insert the hammer pin. Use the split screwdriver to lift the short leg of the hammer spring far enough to feed the metal tube from the headed alignment pin over it. Use the metal tube as a handle to manipulate the spring leg, so it is seated behind the 3mm pin, then pull the metal tube straight out, leaving the spring positioned correctly. Repeat for the other hammer spring.
5. **Cock the hammer and insert safety selector from left side.** This is easiest done by orienting it so it is in the 'fire' position. Use finger pressure to hold both detents down so it seats fully. Add the right side selector switch and replace the roll pin.
6. **Re-insert the drop safety.** Make sure the bottom of the drop safety is in front of the tab in the bottom on the receiver. Align the pin holes and re-insert the pin. Make sure the drop safety swings freely.
7. **Function/Safety Check.** After reassembly, verify that all components (hammer, trigger, safety, drop-safety, and disconnecter), all move freely without binding.
 - a. Verify that after cocking, the trigger still has a second stage.
 - b. Verify that after pulling up to the second stage and releasing the trigger without having dropped the hammer, the trigger returns to the full-forward position without hanging up or sticking.
 - c. Verify disconnecter function by cocking the rifle while the trigger is held back. Check that the disconnecter catches the hammer, check that the trigger resets when it is released, check that the hammer is not released during reset of the trigger. Following this test, pull the trigger to verify that the hammer is released properly.
 - d. Verify that the safety is functioning correctly by cocking the rifle, engaging the safety, and pulling the trigger to make sure the hammer does not fall. Disengage the safety with your finger off the trigger, making sure the hammer does not fall upon safety disengagement.
 - e. With the hammer cocked and the safety in the 'fire' position, manually push the drop safety forward, and verify that it blocks the trigger from being pulled. Following verification, release the drop safety, and assure that it returns, and that the trigger can be pulled.
 - f. With the hammer in the forward position, verify that the safety will not engage.
 - g. Verify trigger pull force is above 4.5lb.

If any of these tests fail, do not shoot the rifle, as it might be unsafe. Have a qualified gunsmith or armorer repair the defect before attempting to use.

Additional installation details are available at www.shootingsight.com