

# INSTALLATION OF THE SHOOTINGSIGHT LLC

## SIG556 MATCH TRIGGER KIT

**CONTENTS.** This package contains the following parts: a hammer, a sear, and a sear booster spring. In addition there is a tube of grease, these instructions/safety warning, and a warranty.

1. **WARNING. Always verify the rifle is unloaded before working on it.** Some of the items in this kit contain springs, always wear safety glasses when working on these 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 trained to do trigger work.
2. **Disassembly.** Separate the upper and lower receivers. De-cock the hammer. Strip the trigger group, per SIG disassembly instructions in the Armorer's Manual. Check all components in the trigger group for serviceability. Repair/replace any parts, as necessary.
3. **Replace Hammer.** Verify the hammer pivot pin fits easily and spins freely in the ShootingSight hammer. Reassemble new hammer in lower receiver using the original hammer spring. Verify that the hammer moves without binding. Make sure that the hammer pivot pin is oriented such that the anti-walk groove on the pin is on the right side.
4. **Replace Trigger Sear.** Disassemble trigger assembly, remove the original sear, sear spring and plastic spacer from inside trigger. Replace sear / plastic spacer with ShootingSight sear. Reassemble by inserting the ShootingSight sear, the sear booster spring, AND ALSO INSERT THE ORIGINAL SEAR SPRING INSIDE THE SHOOTINGSIGHT BOOSTER SPRING inside the trigger body. Hold it in place by inserting the trigger hub from the left side. Engage the top of the SIG sear spring in the groove inside the top of the trigger. Verify that the sear pivots freely inside the trigger, and that it slides freely up/down on the trigger hub, and that the sear spring is holding the sear forward. Reassemble the remainder of the trigger group per SIG's Armorer's instructions, making sure the anti-walk groove on the trigger pin is on the right side.
5. **WARNING. Second Stage Sear Engagement.** The second stage pressure plunger located behind the trigger is intended to give the user an additional pressure point during trigger pull, to alert them that the hammer is about to be released. Because this plunger is adjustable, it is subject to being mis-adjusted such that it might not provide this additional pressure point prior to discharge. This mechanism must therefore never be relied upon as a primary safety mechanism to prevent an accidental discharge. SIG's recommended setting is to have the plunger adjusted to contact the trigger 1.0 – 0.5mm before the hammer is released. If an armorer or gunsmith attempts to adjust the second stage plunger outside the SIG recommended range (e.g. for a target shooting application, where minimum second stage travel is desired), the armorer or gunsmith must verify that the trigger still functions correctly and safely. Note that since the plunger head is hexagonal, and the trigger body is stamped metal, neither of these surfaces is precise. The exact position of contact between them can vary slightly during normal use (e.g. as the plunger head rotates under recoil). Any adjustment must therefore be made with consideration given to the possibility that this contact point could shift slightly.
6. **Adjustment.** Remove the pistol grip using a 5mm Allen wrench. On certain models, the detent spring for the takedown pin is under the pistol grip; be careful not to lose or damage this spring. Cock the hammer and pull the trigger until it contacts the second stage plunger behind the trigger. Per SIG manual instructions, the goal is to have the trigger contact the plunger 0.5 – 1.0mm before the hammer is released. Using a 5.5mm and 7mm open end wrench, or needle nose pliers, screw or unscrew the nut on the plunger to move the plunger in/out, so the trigger contacts the plunger the desired distance before hammer release. This adjustment is easier if the trigger guard is opened, and rotated out of the way.
7. **Grip re-attachment.** After the second stage pressure plunger is adjusted, re-install the pistol grip.
8. **Function/Safety Check.** After reassembly, verify that all components (hammer, trigger, and sear), all move freely without binding, and that the sear spring is seated in the trigger and holding the sear in the forward position. Verify that after cocking, the trigger still has a second stage. Verify that after pulling up to the second stage and releasing the trigger without having dropped the hammer, the trigger and sear return to the full-forward position without hanging up or sticking. Verify sear function by cocking the rifle while the trigger is held back. Check that the sear catches the hammer, check that the trigger resets when 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. 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, and finally, pull the trigger and make sure the hammer does fall. If any of these tests fail, do not shoot the rifle, as it might be unsafe. Have a qualified gunsmith repair the defect before attempting to use.

Additional installation details are available at [www.shootingsight.com](http://www.shootingsight.com)