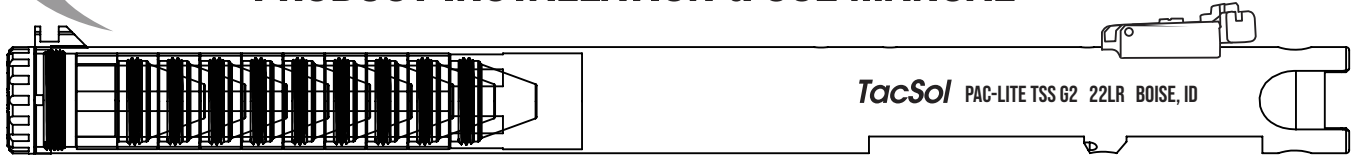




# PAC-LITE<sup>®</sup>

## TSS GEN 2

### PRODUCT INSTALLATION & USE MANUAL



#### **MANDATORY USE OF FACTORY MANUAL. WARNING: READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT.**

This manual in no way replaces or supersedes information or instructions from your firearm's original manufacturer. In the event of a difference or conflict between your firearm's original manufacturer's manual and the information contained herein, the original manufacturer's official instructions shall always take precedence.

**LOADED FIREARM WARNING : ALWAYS ENSURE YOUR FIREARM IS UNLOADED BEFORE ATTEMPTING TO COMPLETE ANY WORK. NEVER CLEAN, LUBRICATE, DISASSEMBLE, REASSEMBLE, OR PERFORM ANY OTHER WORK ON A FIREARM WITHOUT FIRST UNLOADING THE FIREARM AND REDERING IT SAFE. TO RENDER THE FIREARM SAFE, REMOVE THE MAGAZINE FROM THE FIREARM, PULL THE BOLT / SLIDE TO THE REAR AND INSPECT THE CHAMBER AND ENSURE IT IS CLEAR BOTH VISUALLY AND PHYSICALLY. REMOVE ALL AMMUNITION FROM THE WORK AREA.**

**KEEP THE FIREARM'S MUZZLE POINTED IN A SAFE DIRECTION AT ALL TIMES WHILE PERFORMING WORK.**

#### **REMOVAL OF YOUR FACTORY BARREL / RECEIVER**

Make sure the pistol is pointed in a safe direction and that your finger is off the trigger. Remove the magazine from the pistol. Grasp the bolt ears with your thumb and index finger, and pull the bolt fully to the rear. Visually verify there is no cartridge in the chamber. Release the bolt ears and allow the bolt to go forward.

#### **UNCOCKING THE HAMMER**

The safety must be in the off position and the pistol must be uncocked in order to disassemble. Inesert an EMPTY magazine into the pistol. Point the pistol in a safe direction and, with the pistol UNLOADED, pull the trigger. This will decock the hammer and relieve the pressure on the mainspring, allowing the pistol to be disassembled. Remove the EMPTY magazine from the pistol.

#### **REMOVING THE MAINSPRING HOUSING**

The perfect tool to use for lifting the mainspring housing latch is a paper clip. Using the paper clip, lift the mainspring latch away from the grip frame as far as it will go, much like opening the blade of a pocket knife. This will bring the latch to an approximately 90 degree angle to the grip.



#### **REMOVING THE BOLT**

You can now pull the bolt out of the receiver by pulling the bolt ears rearward. You may need to pull the trigger while doing such to allow the hammer to pivot out of the way.



#### **REMOVING THE MAINSPRING ASSEMBLY**

Pull straight DOWN on the housing until the mainspring housing pin clears its hole in the top of the receiver. With new pistols, it may be necessary to tap lightly with a plastic, rubber, or wooden hammer, on the end of the mainspring housing pin which protrudes through the top of the receiver while pulling downward on the mainspring housing. Pull straight down on the mainspring housing until it clears both the receiver and the grip frame.



#### **REMOVING THE RECEIVER**

Hold the pistol over a padded work surface which will protect the receiver when it is removed. Tap the rear of the upper receiver with a plastic, rubber, or wooden hammer to disengage the upper receiver from the grip frame.



## TESTING FOR PROPER ENGAGEMENT (FIG. 4)

When proper engagement is achieved, closure is complete against the tension of the mainspring, which can be felt as the mainspring housing is pushed into the recess in the back strap. To find out if you did everything correctly, grasp the bolt ears and pull the bolt back GENTLY. If the bolt goes all the way to the rear, the pistol has been assembled correctly and is now ready to use. If the bolt comes back only about 1.5 inches, it is because the hammer strut is not properly seated against the mainspring plunger. In this case, you must open the mainspring housing once more and return to the step entitled LATCHING THE MAINSPRING

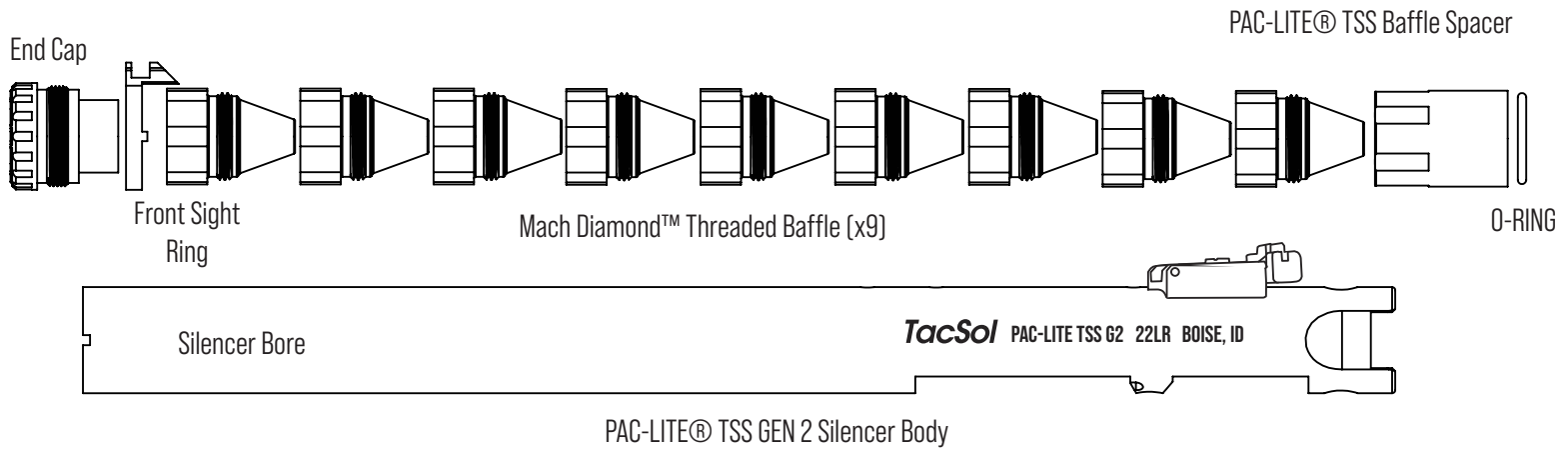


FIG. 4

## USE OF YOUR PAC-LITE TSS GEN 2

The TacSol PAC-LITE TSS GEN 2 is optimized for use with subsonic ammunition and to be used “dry” without any fluid / wet lubricant added to the interior of the baffles. The inclusion of any fluids to the baffle system may cause damage the baffles or silencer body.

## BREAKDOWN OF SILENCER COMPONENTS



## DISASSEMBLY OF SUPPRESSOR BAFFLE ASSEMBLY

Unload firearm and visually and physically check to ensure the chamber is empty and the magazine is removed.

1. Using the provided TacSol silencer wrench, unthread the end cap counter-clockwise until the threads are no longer engaged. [Fig.1]
2. Remove the end cap and front sight ring and place on a cleaning mat.
3. Tilt the silencer's muzzle downward, allowing the baffle stack to slide out of the silencer bore. [Fig.2]
  - A. If the baffle stack does not slide out, you may use a gunsmithing pick to carefully hook and pull the stack out of the silencer bore.
4. Once the baffle stack is removed, unthread the baffles from one another by turning in a counter-clockwise direction.
  - A. If the baffles will not unthread by hand, you may use a pair of 7/8" (or 22mm) wrenches or one wrench in combination with a 7/8" (or 22mm) socket to loosen the baffles from one another. [Fig.3]
  - B. If desired, you may also purchase a set of the appropriately-sized Clamp Rings from our website in the Maintenance Kit section.
5. Remove o-ring from bottom of baffle spacer and discard. [Fig.4]
  - A. The o-ring should be replaced at each cleaning interval.

FIG.1

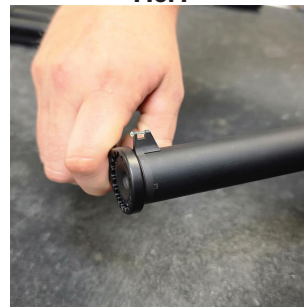


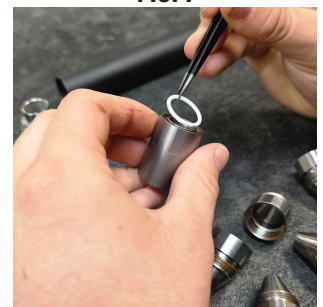
FIG.2



FIG.3



FIG.4



## CLEANING OF SUPPRESSOR & BAFFLE ASSEMBLY

TacSol recommends a cleaning interval of 500 - 1,000 rounds. Not adhering to this interval increases the risk of the baffles becoming carbon locked in the silencer bore.

**WARNING : IT IS EXTREMELY IMPORTANT TO USE PROTECTIVE GLOVES AND EYEWEAR WHEN CLEANING YOUR SILENCER.**

**WARNING : WHEN USING CLEANING SOLVENTS, IT IS CRITICAL TO DO SUCH ONLY IN A WELL-VENTILATED WORKSPACE.**

**DISPOSE OF ALL CHEMICALS IN ACCORDANCE WITH ENVIRONMENTALLY SAFE BEST PRACTICES.**

TacSol recommends the use of an ultrasonic cleaner in conjunction with your choice of titanium-safe cleaning solution as the best method to clean the hard-to-reach surfaces within the baffle components. If an ultrasonic cleaner is not available, you may soak the baffle components (x9 Mach Diamond Baffles & x1 Spacer) in your choice of titanium-safe cleaning solution. Follow the instructions provided by the cleaning solution's manufacturer to avoid damage to the baffles. Do not place the silencer body, end cap, or front sight ring in an ultrasonic cleaner as doing such will damage the finish.

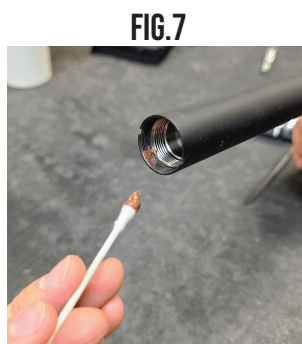
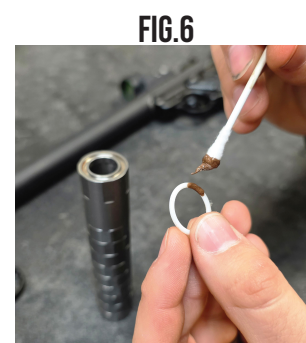
For the end cap, we recommend carefully cleaning with a pick, removing large bits of fouling.

For the silencer bore, a 12 gauge bore mop soaked with aluminum-safe cleaner can be used to scrub the bore clean. Take care to not damage the rifled liner's crown with the cleaning instrument's jag.

## ASSEMBLY OF SUPPRESSOR BAFFLE ASSEMBLY

Prior to assembling your silencer's baffle stack, ensure the baffles are free of any residue or debris from the cleaning process.

1. Apply a pea-sized dab of Permatex® Copper Anti-Seize Lubricant, #31163, to all threaded baffle segments. [Fig.5]
2. Reassemble the baffle stack and spacer ring by turning the components into one another in a clockwise direction.
  - A. The baffles should be hand-tight; do not overtighten.
  - B. Wipe away residual Permatex.
3. Install fresh O-Ring to baffle spacer by applying a small amount of Permatex® to the circumference of the O-Ring and seating in the groove at the bottom of the spacer. [Fig. 6]
4. Insert assembled Baffle Stack into the silencer tube, ensuring it has seated fully by observing the forward edge of the baffle stack just below the threads at the tube's end. [Fig.7]
5. Apply a pea-sized dab of Permatex® to the interior threads at the tube's end. [Fig.7]
6. Slide Front Sight Ring over the End Cap, and begin carefully threading the End Cap onto the Silencer Tube. [Fig.8]
  - A. Ensure the locating tabs of the front sight ring are aligned with the corresponding notches in the silencer tube. [Fig.8]
7. Use the Silencer Wrench to tighten the End Cap to a hand tight specification. The End Cap should be tight enough where it can not be removed by your fingers alone.
8. Your PAC-LITE® TSS Gen 2 is now ready to use!



## STATE BY STATE FIREARM WARNINGS - IT IS THE USER'S RESPONSIBILITY TO KNOW AND ABIDE BY THEIR STATE'S FIREARM WARNINGS

**CALIFORNIA:** "Children are attracted to and can operate firearms that can cause severe injuries or death. Prevent child access by always keeping guns locked away and unloaded when not in use. If you keep a loaded firearm where a child obtains and improperly uses it, you can be fined and sent to prison!" **ADVERTENCIA** "A los niños los atraen las armas de fuego y las pueden hacer funcionar. Ellos pueden causarse Lesions graves y la muerte. Evite que los niños tengan acceso a las armas de fuego guardándolas Siempre con no las este utilizando. Si usted tiene un arma de fuego cartada en un lugar en que un niño tiene acceso a ella y la usa indebidamente, le pueden dar una multa o enviara a la carcel." **CONNECTICUT:** "Unlawful storage of a loaded firearm may result in imprisonment or fine." **FLORIDA:** It is unlawful, and punishable by imprisonment and fine, for any adult to store or leave a firearms in any place within the reach or easy access of a minor under 18 years of age or to knowingly sell or otherwise transfer ownership or possession of a firearm to a minor or a person of unsound mind." **MAINE:** Endangering the welfare of a child is a crime. If you leave a firearm and ammunition within easy access of a child, you may be subject to a fine, imprisonment or both. Keep firearms and ammunition separate. Keep firearms and ammunition locked up. Use trigger locks! **MARYLAND:** "WARNING: Children can operate firearms which can cause death or serious injury. It is a CRIME to store or leave a loaded firearm in any location where an individual knew or should have known that an unsupervised minor would gain access to the firearm. Store you firearms responsibly!" **MASSACHUSETTS:** "WARNING FROM THE MASSACHUSETTS ATTORNEY GENERAL: This Handgun is not equipped with a device that fully blocks use by unauthorized users. More than 200,000 firearms like this one are stolen from their owners every year in the United States. In addition, there are more than a thousand suicides each year by younger children and teenagers who get access to firearms. Hundreds more die from accidental discharge. It is likely than many more children sustain serious wounds, or inflict such wounds accidentally on others. In order to limit the chance of such misuse, it is imperative that you keep this weapon locked in a secure place and take other steps necessary to limit the possibility of theft of accident. Failure to take reasonable preventive steps may result in innocent lives being lost, and in some circumstances may result in your liability for these deaths." "It is unlawful to store or keep a firearm, rifle, shotgun or machine gun in any place unless that weapon is equipped with a tamper-resistant safety device or is stored or kept in a securely locked container!" **NEW JERSEY:** "It is a criminal offense to leave a loaded firearm within easy access of a minor." **NORTH CAROLINA:** "It is unlawful to store or leave a firearm that can be discharged in a manner that a reasonable person should know is accessible to a minor." **TEXAS:** "It is unlawful to store, transport, or abandon an unsecured firearm in a place where children are likely to be and can obtain access to the firearm." **WISCONSIN** "If you leave a loaded firearm within the reach or easy access of a child you may be fined or imprisoned or both if the child improperly discharges, possesses, or exhibits the firearm." Please check with your licensed retailer or state police for additional warnings which may be required by local law or regulation. Such regulations change constantly, and local authorities are in the best position to advise you on such legal matters

## INSTALLATION OF YOUR PAC-LITE® TSS GEN 2 INTEGRALLY-SUPPRESSED RECEIVER

Grasp the grip frame in a natural shooting position. Point the pistol upward/vertically and pull the trigger to pivot the hammer backward to a cocked position. Lower the pistol to a horizontal position. Place the PAC-LITE® TSS Gen 2 receiver on the grip frame about 1/16th of an inch ahead of its final position. Press it backward and downward so that the forward retaining lug in the grip frame engages the front recess on the bottom of the PAC-LITE® TSS Gen 2 receiver. The receiver is properly aligned when the mainspring pin hole in the rear of the receiver lines up with the hole in the grip frame. If proper alignment is not achieved by mere hand pressure, the receiver can be pressed into position by placing the muzzle (with silencer end cap affixed) on a padded surface and pressing the grip frame forward. Inspect the inside of the PAC-LITE® TSS Gen 2 receiver to make sure the hammer is in the cocked position and the hammer strut is freely moving.

### INSTALLATION OF THE BOLT

Insert the bolt into the receiver with the recoil spring facing UP. If you put it straight in, the bolt will easily slide into the receiver\*.

\*If the bolt stops at the ejector, check to ensure the plug screw located immediately ahead of the rear sight assembly is not protruding into the receiver bore. If it is, use a 1/16th inch Allen key to turn the screw counter-clockwise one full revolution.

### \*\*\*FIRING PIN STOP WARNING\*\*\*

When sliding the bolt in the receiver, be certain the firing pin stop has been installed into the bolt. If the bolt is installed with the firing pin stop missing, the firing pin will be allowed to travel beyond its intended travel range, causing it to strike and dent the chamber's edge. This will render the pistol inoperable until a repair can be performed.

TacSol does NOT warrant damage to the chamber caused by firing pin strikes.



### INSTALLATION OF THE MAINSPRING HOUSING ASSEMBLY (FIG. 1)

Insert an EMPTY magazine into the pistol. Point the pistol downward and pull the trigger until the hammer falls forward to the uncocked position. Insert the mainspring housing into the grip frame and push it straight up through the holes in the grip frame and the receiver. As the mainspring housing pin is pushed upward through the receiver, it passes through the slot in the bolt and the recoil spring guide, pushing the spring guide slightly forward to preload the spring. Continue pressing the mainspring housing pin upward through the receiver until the pin protrudes roughly 1/8" above the top of the receiver. During this step, ensure the bolt is fully forward and the hammer in the uncocked/fired position.

\*WARNING\* The receiver must be positioned in such a way as to allow the mainspring housing pin to protrude roughly 1/8" above the top of the receiver. If the receiver is not positioned properly and the mainspring housing is forced close, the receiver may become damaged beyond repair. TacSol is not responsible for damage caused by improper assembly.



FIG. 1

### CLOSING THE MAINSPRING HOUSING (FIG. 2)

Invert the pistol so that the muzzle is pointed upward. Then position the pistol in such a way to allow you to view the hammer strut. The hammer strut should slide into the cutout on the mainspring housing while the housing is being closed. While holding the pistol in the inverted position, hold down on the trigger and close the mainspring as far as it will go without latching the mainspring housing into the pistol. Once the mainspring is closed as far as possible without latching, remove the EMPTY magazine and release the trigger.



FIG. 2



FIG. 3

### LATCHING THE MAINSPRING HOUSING (FIG. 3)

The mainspring housing is now ready to be latched, but it is ESSENTIAL that the hammer strut comes to rest on the mainspring plunger as the housing is latched. The mainspring plunger lies inside the mainspring housing and may be seen through the slot in the upper end of the housing. If the hammer strut does not contact the mainspring plunger as the housing is latched, it will either be impossible to complete the closure of the housing or the housing may close but the bolt will be unable to travel fully to the rear, rendering the pistol inoperable until resolved. It is also essential the hammer itself be in the uncocked (fired) forward position (resting against the firing pin) as the mainspring housing is latched.