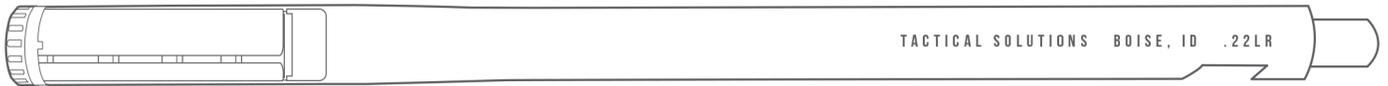




X-RING TSS™



INTEGRALLY SUPRESSED BARREL UPGRADE FOR
X-RING SERIES RIFLES & 10/22® STYLE RIFLES

Thank you for purchasing your new Tactical Solutions barrel. Please follow these instructions for proper installation.

THESE INSTRUCTIONS IN NO WAY SUPERSEDE INFORMATION OR INSTRUCTIONS FROM YOUR GUN MANUFACTURER.

YOUR NEW TACTICAL SOLUTIONS RIFLE BARREL IS DESIGNED TO FIT MOST STOCKS WITH A 0.920” DIAMETER BARREL CHANNEL.

DEPENDING ON THE STOCK, SOME MODIFICATION TO THE BARREL CHANNEL INLETING ON THE STOCK MAY BE REQUIRED.

ALWAYS MAKE SURE THAT YOUR GUN IS UNLOADED BEFORE ANY WORK IS STARTED.

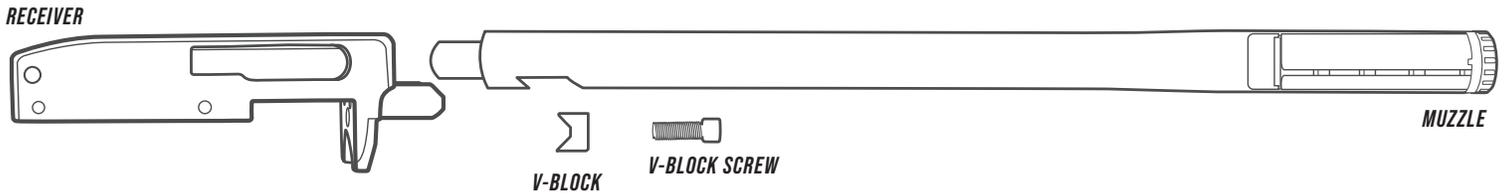
LOADED WEAPON WARNING Always make sure your firearm is unloaded before any work is started. Never clean, lubricate, disassemble, reassemble or work on any firearm while it is loaded. Keep all ammunition away from the work area. Eye protection is required when working on any firearm. Keep the muzzle pointed in a safe direction at all times. When shooting your firearm always wear shooting glasses and hearing protection! Make sure that your gun is unloaded before any work is started.

Step 1) After removing your factory 10/22® barrel, verify that your new Tactical Solutions barrel will fit into your receiver. Your new barrel should slide into your Ruger® 10/22® receiver with very little effort. You should NOT have to force your barrel and receiver together. If it does not fit, you will need to remove some of the finish around the barrel shank, in which case sandpaper will be required for a proper fit.

For optimum accuracy your barrel and receiver should fit together firmly, with no play or movement, and should not require force. We recommend using a fine grit sandpaper, somewhere in the 200-320 range, using a twisting motion around the barrel shank – similar to sharpening a pencil. Only remove enough material [i.e. anodized finish, and possibly a bit of aluminum] for the barrel to be inserted fully. Make certain that as you are removing surface material, you are also wiping the shank clean with each test fit. Additionally, light lubricating oil on the barrel shank will help ease the shank into the receiver.

Step 2) With your new barrel fully inserted into your receiver, replace the V-BLOCK and screws. Be sure to tighten each screw in small increments and one at a time, until you have a secure and tight fit – roughly 18 – 24 inch pounds using a standard hex key. Also available, our TacSol® Performance V-BLOCK, designed specifically for this purpose. For more information please visit tacticalsol.com

Step 3) Insert your reassembled and upgraded action into your stock [And get to the range!].



USE OF X-RING TSS:

The X-RING TSS is designed to perform best with .22LR subsonic ammunition and to be used "dry" without any fluids added to the suppressor / baffle assembly. The addition of any fluids to the baffle system prior to firing may damage the baffle components. **IT IS RECOMMENDED THAT YOU CLEAN THE TSS BAFFLE ASSEMBLY EVERY 250 ROUNDS.**

DISASSEMBLY OF SUPPRESSOR / BAFFLE ASSEMBLY

Unload firearm; visually and physically check that the chamber is empty and magazine is removed.

- Slide the suppressor wrench over the end cap, aligning the notches on the wrench with the grooves in the end cap. **DISASSEMBLY FIGURE 1** While holding the barrel firmly in one hand, turn the suppressor wrench counter clockwise to unscrew the end cap.
- Once the end cap is unscrewed and free of the threads, the suppressor assembly can be removed from the X-RING TSS body. The complete assembly can now be removed by pulling the end cap away from the barrel body. **DISASSEMBLY FIGURE 2**

SUPPRESSOR WRENCH

DISASSEMBLY FIGURE 1

DISASSEMBLY FIGURE 2

END CAP

- To disassemble the baffle stack the spacer ring must be removed first. You will need the TSS spacer wrench for the removal of the spacer ring. The spacer ring is attached using a **left-hand thread pattern**. To unscrew the spacer ring turn it clockwise using the spacer wrench. **DISASSEMBLY FIGURE 3**
- Next, grasp the sleeve firmly, and with your other hand, pull the end cap and connected baffles out of the split tube until they are free. **DISASSEMBLY FIGURE 4**

The baffles can now be separated for cleaning.

DISASSEMBLY FIGURE 3

SPACER RING
INSIDE VIEW

SPACER WRENCH

BLAST BAFFLE

SPACER RING

DISASSEMBLY FIGURE 4

END CAP

END CAP

INTERLOCKING BAFFLES

BLAST BAFFLE

SPACER RING

CLEANING OF BAFFLE ASSEMBLY

Tactical Solutions recommends frequent cleaning of your baffle assembly. We recommend cleaning your baffle components every 250 rounds for best performance and ease of disassembly. The baffle assembly and its components are machined to very tight tolerances, so it is extremely important to clean any lead fouling and carbon build up on a regular basis.

Caution: Use protective eyewear and solvent resistant gloves when cleaning your suppressor. Only use cleaning solvents in well ventilated areas and avoid breathing vapors. Dispose of all chemicals in an environmentally safe manner.

We recommend using mineral spirits to soak all suppressor components [blast baffle, baffles, and split tube] for 12-24 hours at a time. Once the disassembled suppressor components have soaked, we then recommend scrubbing the parts with a nylon brush to remove any remaining carbon. **Due to the precise tolerances of the baffle stack design, it is critical to completely clean the baffles and spacer ring, removing any fouling which has built up between any of the interlocking surfaces.** It is also important to clean the split tube and inside of the pistol's upper receiver tube where the baffle stack is contained. Use a cloth to wipe any residual mineral spirits or debris from the baffle components before assembly. Make sure to clean any residue off of the barrel body, muzzle threads, and end cap threads before inserting the baffle assembly back into the barrel body.

REASSEMBLY STEP 1

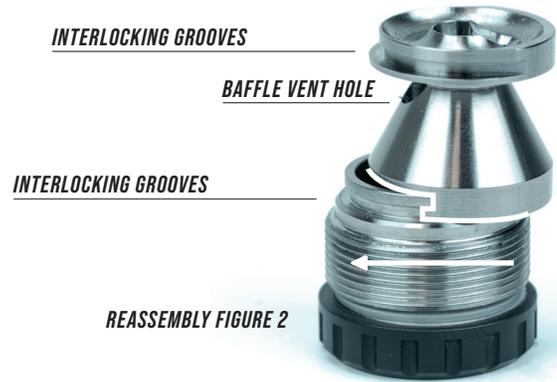
- After cleaning the baffle system and its components, start first by placing the end cap face down [with threads facing upward] on your work surface. **REASSEMBLY FIGURE 1**

REASSEMBLY FIGURE 1



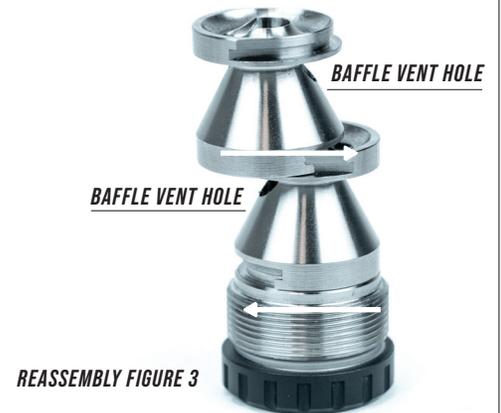
REASSEMBLY STEP 2

- Next, slide the first baffle onto the end cap, aligning the grooves that interlock the two pieces. **REASSEMBLY FIGURE 2** Note: The location of the baffle vents will alternate from left to right for each additional baffle.



REASSEMBLY STEP 3

- With the next baffle in hand, slide it into the grooves in the first baffle, in the same manner. Note the location of the baffle vents and the direction of the groove alignment. **REASSEMBLY FIGURE 3** The location of the baffle vents will alternate from left to right for each additional baffle.
- Repeat this process of aligning and stacking baffles until all 6 baffles are interlocked.

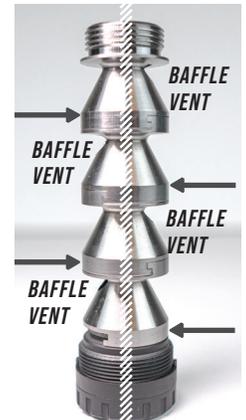


REASSEMBLY STEP 4

- At the right are the assembled baffles stacked prior to the addition of the split tube. **REASSEMBLY FIGURE 4**
- Next, you will need to align the *split* in the split tube in a perpendicular orientation to that of the baffle vent hole alignment. Note the hash-marked line along the center of **REASSEMBLY FIGURE 5**, the "split" in the split tube will need to be located there, which will expose a small portion of the baffle stack. **DO NOT align the split tube in a way that exposes the baffle vent holes.** Slide the split tube down the baffle stack, being careful not to separate baffles.



REASSEMBLY FIGURE 4



REASSEMBLY FIGURE 5

REASSEMBLY STEP 5

- When the split tube is properly aligned and fitted, the blast baffle will be visible with its threads exposed. **REASSEMBLY FIGURE 6**
- Finally, thread on and tighten the spacer ring [with the included spacer wrench] to complete the assembly of the suppressor baffle system. We recommend putting a small amount of anti-seize on the blast baffle's threads before installing the spacer ring. This will make it easier to remove during service intervals. Using the spacer wrench, tighten the spacer ring by turning to the left. With the spacer ring fully tightened, the split tube should fit securely. **REASSEMBLY FIGURE 7** Slide the Muzzle Ring on to the baffle / suppressor assembly with the lugs on the Muzzle Ring facing toward the suppressor body.
- Reinsert the baffle / suppressor assembly into the X-RING TSS barrel and insert the Front Sight Ring lugs into the notches on the barrel body. Carefully thread the baffle system and barrel together until securely tightened. **The endcap threads should be clean of any residue, solvents, etc., prior to tightening.**



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 lesiones graves y la muerte. Evite que los niños tengan acceso a las armas de fuego guardándolas siempre con no las esté utilizando. Si usted tiene un arma de fuego cargada en un lugar en que un niño tiene acceso a ella y la usa indebidamente, le pueden dar una multa o enviarlo a la cárcel." **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 firearm 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 your 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 that 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 or 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



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7/24/23

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