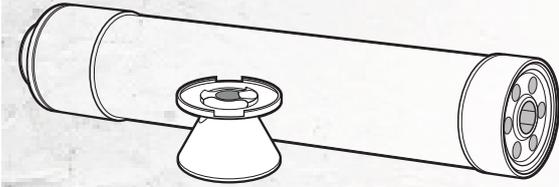


ELEMENT™

SILENCER TECHNICAL MANUAL



GENERAL INFORMATION

The ELEMENT™ is the logical evolution in user-serviceable rimfire silencers. Careful material selection and computer aided design have made the ELEMENT™ lighter than most Titanium .22 silencers and enable it to be readily disassembled for cleaning by the user without Titanium's galling issues. The ELEMENT™ is full-auto rated for use with all .17 and .22 rimfire ammunition and is available with industry standard 1/2-28 TPI threads. Use of the optional baffle pusher makes disassembly of the ELEMENT™ for routine cleaning quick and easy.

TECHNICAL SPECIFICATIONS

Caliber	All .17 & .22 Rimfire
Silencer Materials	17-4PH SS, Special Alloy
Weight	4.5 oz.
Length (O.A.)	5.25 in.
Diameter	1 in.
SPL reduction	41 dB
Silencer Finish	SCARmor™

⚠WARNING

Failure to follow instructions set forth in this manual can create a potentially dangerous situation for the operator and damage to the silencer and host firearm.

MANUFACTURER'S DISCLAIMER

ADVANCED ARMAMENT CORP. shall not be responsible in any manner whatsoever for physical injury or property damage stemming from criminal or negligent misuse, improper or careless handling, unauthorized modifications, defective, improper hand-loaded or reloaded ammunition, neglect, or other influences beyond the direct and immediate control of ADVANCED ARMAMENT CORP. If you do not understand the instructions in this manual, please contact ADVANCED ARMAMENT CORP. for further clarification.

REASSEMBLING THE ELEMENT™

1. Thread the alignment rod into the counter-bored side of the spanner. This side of the spanner has pins with the proper spacing for engaging the spanner holes in the rear end cap.

2. Orient the alignment rod vertically and slide the rear end cap onto the rod and allow it to rest on the end cap spanner so that the pins on face of the spanner lock into a set of the holes on the rear end cap (See Figure 5).



FIGURE 5

3. The blast baffle differs from the other baffles by having four notches on its rear face and a hole beneath the diversion scoop (See Figure 6a). Slide the blast baffle onto the alignment rod and let it come to rest against the rear cap so the 4 tabs on the rear end cap engage the 4 notches on the blast baffle (See Figure 6b).



FIGURE 6a



FIGURE 6b



FIGURE 7a

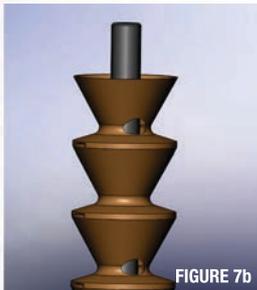


FIGURE 7b

4. Build up the baffle stack using the remaining 6 baffles. The output ports on the baffles should have 180° alignment for optimum performance (See Figure 7a). The last baffle in the stack that bears against the front end cap has no tabs on the front of the cone (See Figure 7b).

5. Slide the tube over the completed baffle stack and rear end cap, and fully thread the tube to the rear end cap (See Figure 8).



FIGURE 8

6. Carefully remove the assembly from the alignment rod/end cap removal tool, taking care that the baffles do not shift from their interlocked position (See Figure 9).



FIGURE 9

7. Install and fully tighten the front end cap in the tube using the baffle removal tool (See Figure 10a). The front end cap should sit flush with the front of the tube, or slightly recessed into it (See Figure 10b). If the front end cap protrudes, one or more of the baffles has most likely come un-tabbed and is rotationally misaligned. If this is the case, disassemble the silencer and repeat reassembly steps 1 through 7.



FIGURE 10a

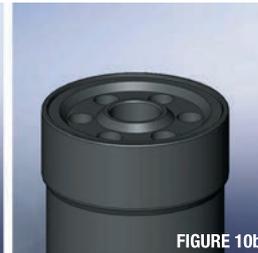


FIGURE 10b

8. Wipe off any anti-seize compound, oil, or solvent from the outside of the silencer.



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INSTALLATION & REMOVAL

1. Set the host gun on "safe", remove the magazine, lock open the action and visually ascertain the chamber is empty and the gun is unloaded.
2. Remove thread-protector from the host gun barrel (if present).
3. Thread the ELEMENT™ onto the host gun muzzle threads hand tight, until the rear of the silencer seats firmly against the shoulder on the host gun barrel at the rear of the threads.
4. To remove the silencer after it has cooled to the point it can be grasped with a bare hand or heat resistant glove, set the host gun on "safe", remove the magazine, lock open the action and visually ascertain the chamber is empty and the gun is unloaded. Remove the ELEMENT™ by unscrewing it from the host gun muzzle threads. Reinstall the thread protector if desired.

DISASSEMBLING THE ELEMENT™ FOR CLEANING

The ELEMENT™ should be disassembled for cleaning after 500 rounds of use if the optional baffle removal tool is not used to aid in disassembly. If the baffle removal tool is used, the cleaning interval can be stretched to every 1,000 rounds. The following procedures detail disassembly for cleaning.

DISASSEMBLY WITHOUT THE BAFFLE REMOVAL TOOL

1. Set the host gun on "safe", remove the magazine, lock open the action and visually ascertain the chamber is empty and the gun is unloaded.
2. The ELEMENT™ is supplied with a multi-function end cap spanner. The end of the spanner with two pins and a tapped hole fits the front end cap. The side with two pins and a counter-bore fits the rear end cap. Use the spanner to unscrew and remove the front end cap (see Figure 10a).
3. Using a 7/16" diameter brass punch, push the baffle stack forward approximately 1/16" to disengage the baffle stack from the rear end cap.
4. Use the spanner to unthread and remove the rear end cap.
5. Insert the baffle alignment rod into the rear of the silencer. Grasp the rod as it protrudes from the front of the tube and pull the baffles forward from the front of the tube.
6. Disassembly is complete.

DISASSEMBLY WITH THE BAFFLE REMOVAL TOOL

1. Set the host gun on "safe", remove the magazine, lock open the action and visually ascertain the chamber is empty and the gun is unloaded.
2. Using the supplied end cap spanner, remove the front end cap.
3. If the pusher tool is in a disassembled state, reassemble it by first threading the pusher screw through the tool mandrel so that the counterbored end of the screw is flush with the tool mandrel. Insert the long end of the brass pusher tip into the counterbore of the pusher screw (See Figure 1).



FIGURE 1

4. While holding the pusher tool assembly in such a way that the brass pusher tip does not fall out of the pusher screw, thread the 1/2-28 male threads on the tool mandrel into the 1/2-28 female threads of the silencer rear end cap. A slight resistance may be felt when the piloted end of the brass pusher tip enters the aperture of the blast baffle and the flange engages the rear face of the baffle (See Figure 2).



FIGURE 2

5. Using hand pressure on the hex-shaped end of the pusher screw, turn the pusher screw in a clockwise motion to push the baffles from the front of the tube (See Figure 3). If necessary, use an adjustable wrench or a 3/4" socket and ratchet to assist in turning the pusher screw.



FIGURE 3

6. With the baffles removed, use the supplied end cap spanner to remove the rear end cap.
7. Disassembly is complete.

CLEANING THE ELEMENT™

1. Clean accumulated lead and fouling from the baffles using a plastic brush and a solvent designed for lead removal. Stubborn deposits may be removed using solvent moistened ScotchBrite™. **DO NOT use sand paper to clean the baffles.**
2. Clean the inside of the tube and tube threads using a plastic brush and solvent.
3. Clean the internal and external threads of the rear end cap and the external threads on the front end cap. Clean the counter-bored areas of both end caps using a plastic brush and solvent. Check the 15/16 O.D. x 1/16" wide Viton® o-rings on the front and rear end caps and replace them if they become worn. Replacement o-rings are available from McMaster-Carr (PN: 9464K73).
4. Once the solvent has evaporated and the tube and end caps are completely dry, liberally apply a coating of anti-seize compound to the internal threads of the tube and the mating external threads on the front and rear end caps (**Note: DO NOT put any anti-seize in the 1/2-28 threaded socket or on the two Viton® o-rings.**)



FIGURE 4