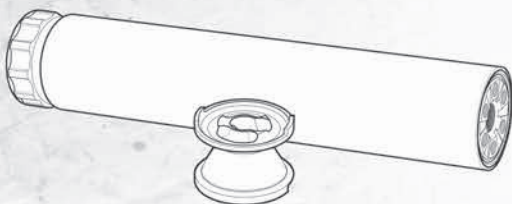


ELEMENT2™

SILENCER TECHNICAL MANUAL



GENERAL INFORMATION

The ELEMENT 2™ incorporates three years of customer feedback to improve on the already ground-breaking ELEMENT™ .22LR silencer. The ELEMENT 2™ features a light-weight tube and rear end cap machined from durable and corrosion resistant Titanium alloy. To continue the theme of strength and corrosion resistance, the front end cap and baffles are heat treated 17-4 PH stainless steel. The exterior styling has been enhanced with a permanently fixed, flush fit rear end cap and a Ti-RANT™ style removable front end cap. The ELEMENT 2™ is full auto rated for use with all .17 and .22 caliber rimfire ammunition and is available with industry standard ½-28 TPI threads. The included baffle pusher tool makes disassembly of the ELEMENT 2™ for routine cleaning quick and easy.

TECHNICAL SPECIFICATIONS

Caliber	.22 LR, .17 HMR, .17 M2, .22 MAG
Silencer Materials	Grades 5&9 Ti, 17-4 PH SS
Weight	4.58 oz.
Length (O.A.)	5.25 in.
Diameter	1 in.
SPL reduction	41 dB (A)
Silencer Finish	Cerakote™

▲ 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 ammunition, neglect, or other influences beyond the direct and immediate control of ADVANCED ARMAMENT CORP. (continues)

If you do not understand the instructions in this manual, please contact ADVANCED ARMAMENT CORP. for further clarification.

INSTALLATION AND REMOVAL

1. Set the host firearm on "SAFE", remove the magazine (if present), lock open the action and visually and tactilely verify the chamber is in an empty and unloaded condition.
2. Remove thread protector (if present).
3. Inspect the threads on the exterior of the host firearm muzzle and the threads in the rear of the silencer to ensure they are clean and free of any unburned powder or debris.
4. Thread the silencer onto the barrel threads hand-tight, until the rear of the silencer seats squarely against the shoulder behind the threads on the host firearm barrel. **DO NOT USE ANY SHIMS OR WASHERS BETWEEN THE REAR CAP OF THE SILENCER AND THE BARREL SHOULDER.**
5. Thread mounting silencers can unscrew during use. **IT IS THE RESPONSIBILITY OF THE USER TO FREQUENTLY ENSURE THE SILENCER REMAINS SECURELY THREADED ONTO THE BARREL OF THE HOST FIREARM.**
6. To remove the silencer after use, set the host firearm on "SAFE", remove the magazine (if present), lock open the action and visually and tactilely verify the chamber is in an empty and unloaded condition. If the silencer has reached a temperature where it can be grasped with a bare hand or heat resistant glove, remove it by unscrewing it from the host firearm muzzle threads. If desired, replace thread protector on host firearm muzzle.

DISASSEMBLING THE ELEMENT 2™ FOR CLEANING

The included baffle pusher tool enables users to enjoy 1,000 rounds of shooting before it is recommended they completely disassemble their ELEMENT 2™ for a thorough cleaning. The following procedures detail disassembling and cleaning the ELEMENT 2™.

1. The ELEMENT 2™ must be separate from the host firearm before it can be disassembled. To remove the silencer, set the host firearm on "SAFE", remove the magazine (if present), lock open the action and visually and tactilely verify the chamber is in an empty and unloaded condition. If the silencer has reached a temperature where it can be grasped with a bare hand or heat resistant glove, remove it by unscrewing it from the host firearm muzzle threads. If desired, replace thread protector on host firearm muzzle.

2. Use the supplied end cap spanner tool (See Figure 1) to unscrew and remove the front end cap from the tube.

3. If necessary, assemble the baffle removal tool by threading the pusher screw through the tool mandrel so that the counter-bored end of the screw is flush with the tool mandrel. Insert the long end of the brass pusher tip into the counter-bored end of the screw (See Figure 2).



FIGURE 1



FIGURE 2

4. While holding the baffle removal tool upright, thread the tool mandrel into the threaded socket in the rear of the silencer (See Figure 3). 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 on the pusher tip engages the rear face of the baffle.



FIGURE 3

5. Using hand pressure on the hex-shaped head of the screw, turn the screw in a clockwise motion to push the baffles from the front of the tube (See Figure 4). If necessary, an adjustable wrench or ratchet with a $\frac{3}{4}$ " socket may be used to assist in turning the screw.



FIGURE 4

6. The rear end cap and tube are permanently assembled. It is unnecessary to remove the rear end cap from the tube for cleaning and removal is discouraged.
7. Disassembly is complete.

CLEANING THE ELEMENT 2™

To clean the ELEMENT 2™ in a safe manner, wear eye protection and rubber gloves and work only in a well ventilated area away from open flames or other heat sources when using solvents. Dispose of used cleaning solvents and lead using only approved environmentally conscious methods.

1. Separate the baffles and clean them of accumulated lead and powder fouling using a plastic or brass brush and a solvent designed for lead and carbon removal. Stubborn deposits may require scrubbing with a coarse ScotchBrite™ pad and solvent. **DO NOT use sandpaper to clean the baffles.**
2. Clean the inside of the tube and the threads in the front of the tube using a brush and solvent. Wipe out the threads with a clean cloth.
3. Clean the ½-28 threads in the rear of the silencer using a solvent moistened swab.
4. Clean the recesses in the interior face of the front end cap using a solvent moistened swab. Inspect the Viton® o-ring in the front end cap and replace it if it becomes worn or broken. Replacements can be purchased from McMaster Carr (www.mcmaster.com) (P/N: 9464K73). A light coat of silicone grease will prolong the useful life of the o-ring and keep it pliable.
5. Once all traces of solvent have evaporated, liberally apply a coating of anti-seize compound to the threads in the front of the tube and the mating threads on the front end cap (DO NOT apply anti-seize to the ½-28 threaded socket in the rear end cap or to the Viton® o-ring).

REASSEMBLING THE ELEMENT 2™

1. The baffle stack of the ELEMENT 2™ is comprised of seven baffles; one blast baffle with a short integrated spacer and two small holes in the rear face, and six standard baffles with notches on the cone and tabs on the rear face. Tab the baffles together on a table or flat surface (see Figure 5). Note that the baffles are rotationally aligned so that the output ports in the waist of the baffle are 180 degrees from the port on the adjacent baffles. The blast baffle will be the last baffle installed on the stack.
2. Carefully slide the tube assembly completely over the assembled baffle stack (See Figure 6).
3. Once filled, turn the tube upright and reinstall the front end cap using the end cap spanner. The front face of the end cap should sit close-to-flush with the front of the tube (See Figure 7). If the front end cap protrudes past the tube, one or more of the baffles have come un-tabbed and are rotationally misaligned. If this is suspected, disassemble the silencer and repeat the assembly procedure.
4. Wipe off any anti-seize compound, oil, or solvent from the outside of the silencer.



FIGURE 5

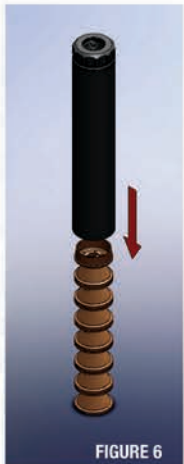


FIGURE 6



FIGURE 7

AMMUNITION GUIDELINES FOR RIMFIRE SILENCERS

For maximum noise reduction, it is necessary to use ammunition which will remain subsonic in YOUR host firearm. Most ammunition, with the exception of hyper velocity loadings will remain subsonic when fired from a pistol length barrel. Rifle length barrels, due to their higher velocities, often require standard velocity or subsonic offerings to deliver the most discreet sound signature. European ammunition manufacturers such as Eley and RWS produce subsonic .22LR ammunition specifically for use in silencer equipped rifles. Two domestic .22LR loads known for quality and consistency are CCI Green Tag and Federal .22LR Olympic Match. They typically deliver match grade accuracy and a very pleasing sound when used with a silencer. Other more economical choices are standard velocity and subsonic offerings from Remington or CCI. They will remain subsonic in both rifles and pistols over a broad variety of environmental conditions, and produce the most discreet sound signature when fired through a silencer.

▲ We do caution against the use of 60 grain Sniper Subsonic (SSS) ammunition from Aguila, as it has a tendency to de-stabilize in .22LR barrels with a standard twist rate of 1 in 16. A de-stabilized projectile can yaw while traversing the length of the silencer and damage its internal components. Users that are interested in this heavy loading should contact the manufacturer and/or importer of Aguila ammunition for their recommendations on proper barrel twist rates to stabilize the 60 grain SSS projectile.



ADVANCED ARMAMENT CORP.
770-925-9988 (Voice) 770-925-9989 (Fax)
www.advanced-armament.com

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