screw (See Figure 4).

6. Disassembly is complete.

## CLEANING THE PILOT 2™


FIGURE 4

1. Clean the seven baffles of all loose particulate matter using a plastic brush and solvent. Stubborn deposits of lead can be removed using a plastic brush and a solvent designed for lead removal THAT IS SAFE FOR ANODIZED ALUMINUM.
2. Clean the inside of the tube and tube threads using a plastic brush and solvent.
3. Clean the external threads on the front end cap. Clean the recessed area on the back side of the front end cap using a cotton swab and solvent. Check the o-ring on the front end cap and replace it if it becomes worn. Replacement o-rings can be purchased from McMaster-Carr (PN: 9464K73).
4. Once the solvent has evaporated and the tube and end cap are dry, liberally apply a coating of anti-seize compound or grease to the threads in the front of the tube and the mating threads on the front end cap. DO NOT put anti-seize or grease in the ½-28 threads in the rear mount of the silencer.

## REASSEMBLING THE PILOT 2™

1. The baffle stack of the PILOT 2™ is made up of seven baffles; the SCARmor™ coated stainless steel blast baffle with pressure relief hole and notches in the front cone, and six identical anodized aluminum baffles with tabs on the rear face and notches in the front cone. Build up the baffle stack by placing one of the aluminum baffles cone-side down on a table or flat work surface. The rest of the baffle stack is comprised of five additional aluminum baffles, with the final baffle in the stack being the stainless steel blast baffle with the pressure relief hole. Place the baffles one atop the other so that the tabs protruding from the rear face of the baffle engage the notches on the cone of the adjacent baffle (See Figure 5). The stack should be assembled so that the output ports at (continues) the junction of the cone and disk feature are all aligned. The completed stack should look like Figure 6.
2. Slide the tube completely over the upright baffle stack (See Figure 7).
3. Carefully turn the baffle filled tube upright, taking care that none of the baffle come un-tabbed from adjacent baffles. Reinstall the front end cap and tighten it using the end cap spanner tool (See Figure 8). The front face of the end cap should sit close-to-flush with the front rim of the tube (See Figure 9). If the front end cap protrudes from the tube, one or more of the baffles have most likely come un-tabbed and become rotationally misaligned. If this is the case, disassemble the silencer and repeat Steps 1 through 3.
4. Wipe off any grease or anti-seize compound from the outside of the tube using an oily cloth.
5. Reassembly is complete.


FIGURE 5


FIGURE 6

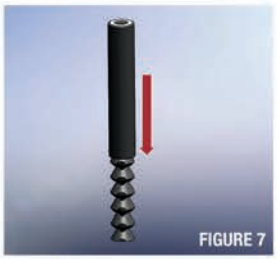
FIGURE 7


FIGURE 8


FIGURE 9

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

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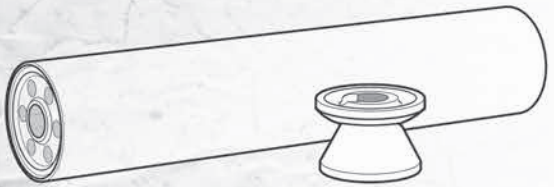
# PILOT 2™

## SILENCER TECHNICAL MANUAL



## GENERAL INFORMATION

The PILOT 2™ is a compact, light-weight, high efficiency silencer for .22LR pistols and rifles. The PILOT 2™ has been designed so that users can easily remove the baffle stack for cleaning and maintenance.

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Caliber | .22 LR |
| Silencer Construction Materials | 6061-T6, 7075-T6, 416 SS |
| Weight | 3.5 oz. |
| Length (O.A.) | 5.25 in. |
| Diameter | 1 in. |
| SPL Reduction | 36 dB |
| Silencer Finish | T3 HC Anodize, SCARmor™ |

## ⚠WARNING

**Failure to follow the instruction 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.

## NOTES ON USAGE

The PILOT 2™ delivers impressive sound reduction on most semi-automatic, manually operated, and single-shot .22LR rifles and pistols. The rated sound reduction of the PILOT 2™ is achieved with the interior of the silencer in a dry state. A small amount of light oil introduced from the rear will achieve a slight improvement in sound reduction and will ease removal of the baffle stack from the tube for cleaning.

Although durably constructed, the PILOT 2™ is designed **FOR USE ON .22LR FIREARMS ONLY!** Using a PILOT 2™ on anything other than .22LR hosts can result in the accelerated wear or destruction of the silencer and damage to the host firearm. Damage to the silencer from use on anything other than .22LR hosts will not be covered under warranty.

## ENSURING ALIGNMENT OF THE PILOT 2™ ON THE HOST FIREARM.

The PILOT 2 ™ interfaces with the host firearm using ½-28 TPI female threads in the stainless steel rear mount. It is the user's responsibility to ensure the following conditions are met:

1. The ½-28 TPI threads on the host firearm muzzle are cut to proper ½-28 specifications.
2. The threads are concentric with, and parallel to, the bore of the host firearm.
3. There is a perpendicular shoulder behind the threads of sufficient diameter (>Ø.550") to ensure proper alignment between the silencer and the bore.

## INSTALLATION AND REMOVAL OF PILOT 2™

### ⚠WARNING

**Before initiating installation/removal procedures, set the host firearm on "SAFE", remove the magazine (if present), lock open the action,visually and tactilely verify the chamber is in an empty and in an unloaded condition.**

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 gun 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 PILOT 2™ FOR CLEANING

### ⚠WARNING

**Before initiating installation/removal procedures, set the host firearm on "SAFE", remove the magazine (if present), lock open the action to visually and tactilely verify the chamber is in an empty and unloaded condition.**

### ⚠WARNING

**DO NOT use an ultrasonic cleaner on this or any silencer that features anodized aluminum construction. The chemicals used in many ultrasonic cleaners can remove the protective anodized finish and damage the underlying aluminum surface.**

The PILOT 2™ should be disassembled for cleaning after every 300 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 750 rounds. One brand of ammunition will leave a different quantity and quality of unburned powder, lead, and other crud in a silencer than another. Over time you will become the best judge of how many rounds of your ammunition of choice you can fire through your PILOT 2™ before disassembly for cleaning.

## DISASSEMBLY *WITHOUT* THE BAFFLE REMOVAL TOOL

1. Only disassemble the PILOT 2™ after safely removing it from the host firearm (See INSTALLATION AND REMOVAL OF PILOT 2™).
2. The PILOT 2™ is supplied with an end cap spanner tool (See Figure 1). Use it to unscrew and set aside the front end cap.
3. Using a 7/16" diameter wooden or plastic dowel and a hammer, lightly tap the baffles forward until all seven are free of the tube.
4. Disassembly is complete.


FIGURE 1

## DISASSEMBLY *WITH* THE BAFFLE REMOVAL TOOL

1. Only disassemble the PILOT 2™ after safely removing it from the host firearm (See INSTALLATION AND REMOVAL OF PILOT 2™).
2. The PILOT 2™ is supplied with an end cap spanner tool (See Figure 1). Use it to unscrew and set aside the front end cap.
3. If the pusher tool is in a disassembled state, reassemble it by first threading the pusher screw through the hex shaped tool body so that the end of the screw with the shallow counterbore is flush with the end of the tool body with ½-28 threads. Insert the long end of the brass pusher tip into the counterbore in the pusher screw (See Figure 2).


FIGURE 2

4. While holding the pusher tool assembly upright so the pusher tip does not become dislodged, thread the pusher body into the rear of the silencer. Slight resistance may be felt when the piloted end of the brass tip enters the central hole in the blast baffle (See Figure 3).
5. Turn the hex shaped end of the pusher screw by hand in a clockwise motion to push the baffles from the silencer body. If additional force is (continues) required, use an adjustable wrench or a ¾" socket and ratchet to turn the

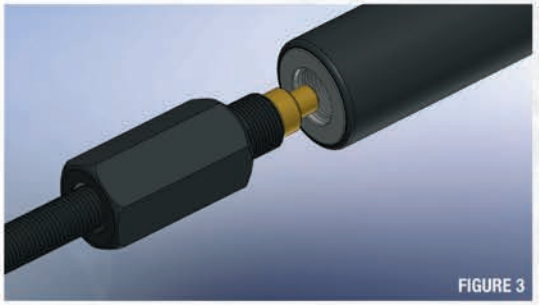


FIGURE 3