GENERAL INFORMATION

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

TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caliber</td>
<td>.22 LR</td>
</tr>
<tr>
<td>Silencer Construction Materials</td>
<td>6061-T6, 7075-T6, 416 SS</td>
</tr>
<tr>
<td>Weight</td>
<td>3.5 oz.</td>
</tr>
<tr>
<td>Length (O.A.)</td>
<td>5.25 in.</td>
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<tr>
<td>Diameter</td>
<td>1 in.</td>
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<tr>
<td>SPL Reduction</td>
<td>36 dB</td>
</tr>
<tr>
<td>Silencer Finish</td>
<td>T3 HC Anodize, SCARmor™</td>
</tr>
</tbody>
</table>

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.

CLEANING THE PILOT™

1. Clean accumulated lead and fouling from the baffles using a plastic brush and a solvent designed for lead removal THAT IS SAFE FOR 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 counterbored area on the back side of the end cap using a cotton swab and solvent. Check the 15/16 O.D. x 1/16” wide Viton® o-ring on the front end cap and replace it if it becomes worn. Replacement o-rings are available from McMaster-Carr (PN: 9464K73).
4. Once the solvent has evaporated and the tube and end cap 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 end cap (Note: DO NOT put any anti-seize in the ½-28 female threads in the rear of the silencer or on the Viton® o-ring).

REASSEMBLING THE PILOT™

1. The baffle stack of the PILOT™ is composed of seven baffles; the SCARmor™ coated stainless steel blast baffle with a hole, and six identical anodized aluminum baffles. Rebuild the baffle stack by placing one of the six anodized aluminum baffles cone-side down on a table or work bench. Take another aluminum baffle and line it up on top of the first baffle so that the output ports on the cones line up. Press the second baffle firmly against the first and the two should snap together (See Figure 6). Repeat this procedure four additional times so that all six aluminum baffles are snapped together into a single unit. Line the blast baffle up on top of the stack of aluminum baffles and snap it onto the baffle stack. The completed stack should look like Figure 7.
2. Slide the tube completely over the upright baffle stack (See Figure 8).
3. Turn the tube with installed baffle stack upright and re-install the front end cap using the end cap spanner (See Figure 9). The front end cap should sit close to flush with the front of the tube (See Figure 10). If the front end cap protrudes excessively, one or more of the baffles has most likely come un-snapped and is rotationally misaligned. If this is the case, disassemble the silencer and repeat steps 1 through 3.

CLEANING THE PILOT™

1. The baffles snap to one another using a light interference fit. Unsnap all 7 baffles (See Figure 5).
2. Disassembly is complete.

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4. Wipe off any anti-seize compound, oil, or solvent from the outside of the silencer using an oily cloth.
5. Reassembly is complete.
NOTES ON USAGE

The PILOT™ will deliver impressive sound reduction on most semi-automatic and manually operated .22 LR pistols and rifles. The rated sound reduction of the PILOT™ 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™ silencer is designed ONLY FOR USE ON .22 LR FIREARMS! Using a PILOT™ silencer on any center fire host firearm or on a .22 LR machinegun can result in the destruction of the silencer, unnecessary wear and tear to the internal components, injury to the user, and damage to the host firearm. Evidence of use of a PILOT™ silencer on a center fire weapon or .22 LR machinegun will void the warranty.

SILENCER ALIGNMENT NOTES

The PILOT™ silencer is designed for use on properly-threaded barrels. Damage to any AAC silencer related to poorly executed barrel threading or improper installation will not be covered under warranty, and AAC denies liability for injury or damage caused by these factors. Any repairs to the unit made necessary by user misuse or neglect will be invoiced to the owner.

INSTALLATION OF SILENCER

⚠️ WARNING
Before initiating Installation/Removal procedures, remove the magazine (if present), open the action, and visually and tactitely verify the chamber is in an empty and unloaded condition.

1. Remove the magazine (if present), open the action, and visually and tactitely verify the chamber is in an empty and unloaded condition.
2. Screw the silencer onto the barrel threads hand tight. Special care should be taken to prevent cross-threading.
3. Since thread mounting silencers are known to unscrew during use, IT IS OF THE UTMOST IMPORTANCE THAT USERS FREQUENTLY ENSURE THAT THE SILENCER REMAINS SECURELY SCREWED ONTO THE BARREL OF THE HOST WEAPON.

DISASSEMBLING THE PILOT™ FOR CLEANING

⚠️ WARNING
Before performing any cleaning or maintenance, remove the magazine (if present), open the action, and visually and tactitely 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 will remove the anodized finish and damage the underlying aluminum components. Such damage will not be repaired under warranty.

The PILOT™ should be disassembled for cleaning after 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. The following procedure details disassembly for cleaning.

DISASSEMBLY WITHOUT THE BAFFLE REMOVAL TOOL

1. Remove the magazine (if present), open the action, and visually and tactitely verify the chamber is in an empty and unloaded condition. Unthread the PILOT™ silencer from the host weapon.
2. The PILOT™ is supplied with an end cap spanner tool (See Figure 1). Insert the two pins of the spanner tool into two of the holes in the front end cap and unscrew and remove the front end cap.
3. Using an extended 7/16” diameter brass punch and hammer, lightly tap the baffle stack forward until the baffle stack is out of the tube.
4. The baffles snap to one another using a light interference fit. Unsnap all 7 baffles.
5. Disassembly is complete.

DISASSEMBLY WITH THE BAFFLE REMOVAL TOOL

1. Remove the magazine (if present), open the action, and visually and tactitely verify the chamber is in an empty and unloaded condition. Unthread the PILOT™ silencer from the host weapon.
2. Using the supplied end cap spanner tool, 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 hex shaped 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 2).
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 ½-28 male threads on the tool mandrel into the ½-28 female threads in the rear of the silencer. A slight resistance may be felt when the piloted end of the brass pusher tip enters the aperture of the blast baffle and engages the rear face of the baffle (See Figure 3).
5. Using hand pressure on the hex shaped end of the pusher screw, turn the pusher screw in a clockwise motion to push the baffle stack from the front of the tube. If necessary, use an adjustable wrench or a ¾” socket and ratchet to assist in turning the pusher screw (See Figure 4).