

TM-SEAHUNTER

OPERATION AND MAINTENANCE OF SOUND SUPPRESSOR MODEL SEAHUNTER

**Before using this suppressor,
be certain you have read and
understand this manual.**

Manufactured by



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ISSUED: July 26, 2000

★ ★ ★ ★ ★ **WARNING** ★ ★ ★ ★ ★

☞ **Because sound suppressed weapons make less noise than non-suppressed weapons, it is easy to forget that they are still firearms. It is of vital importance to remember that a sound suppressed firearm is just as dangerous as a non-suppressed one, and the same safe handling requirements apply.**

TM-SEAHUNTER

FIRST EDITION

July 2003

Published by:

ATI Star Press

Antares Technologies, Inc.

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OPERATIONAL MANUAL FOR SOUND SUPPRESSOR MODEL SEAHUNTER™ (.22LR)

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☆☆☆☆☆ WARNING ☆☆☆☆☆

☞ **Failure to follow installation and maintenance instructions detailed in this manual can result in potential for serious injury to the user and damage to the weapon.** Firearm sound suppressors are user attached firearm muzzle devices, and as such are subject to improper attachment unless the proper procedures outlined in this manual are followed.

MANUFACTURER'S DISCLAIMER

The manufacturer is not responsible for improper usage of this product. This product is potentially dangerous, and as such it is the user's responsibility to understand and implement its proper use. If you do not understand the instructions in this manual, please contact the manufacturer for further clarification.

GENERAL DESCRIPTION

The SEAHUNTER™ is a highly advanced suppressor design featuring a patented quick detach mounting system and titanium exterior construction. No packing material or wipes are used in these units. Designed to meet requirements for a compact, highly efficient muzzle suppressor, this unit is radically different from conventional silencer designs. The suppressor creates an extremely efficient aerodynamic flow of gases coupled with high internal turbulence to cool gases and impede their exit. It is engineered so that there is no necessity for disassembly for maintenance.

The SEAHUNTER™ is precision machined on CNC Swiss machines to provide a secure, quick detach mount which aligns on the host weapon with the precision of a conventional thread mount.

The SEAHUNTER™ is optimized for maximum performance dry and will achieve its rated sound reduction specification, in excess of 39 dB, on a pistol. It is engineered so that 38% of the sound energy is shifted above the upper

limit of human hearing. Because of the high inherent efficiency, water or oil in the suppressor will have only a minimal increase performance and is not recommended.

AMMUNITION RECOMMENDATIONS

Muzzle suppressors do not reduce the velocity of the projectile. High velocity ammunition will be accompanied by the “ballistic crack” (or sonic boom) of the bullet in flight breaking the sound barrier. This is generated down range and external to the suppressor and cannot be controlled other than by choice of ammunition. Both high velocity and hyper velocity cartridges (such as the CCI Stinger and Remington Yellow Jacket) will cause a significant increase in sound signature due to the ballistic crack. These cartridges should be avoided if possible.

For maximum suppression effect, we suggest the use of standard velocity target type .22 LR ammunition. Examples include Remington Subsonic hollow point .22LR as well as CCI Green Tag Competition .22LR cartridges. Most target ammunition is subsonic, and most standard velocity ammunition will remain subsonic in a pistol.

This suppressor is designed only for .22LR caliber rimfire ammunition. **It must not be used with any type of centerfire ammunition.**

The Aguilla SSS 60 gr. subsonic ammunition does not always stabilize in barrel twist rates readily available and can yaw badly on exit from the rifling. This will seriously damage the internal components of your suppressor, and use of this ammunition is at the user’s risk and will void the warranty.

★ ★ ★ ★ ★ **WARNING** ★ ★ ★ ★ ★

☞ **Failure to follow installation instructions detailed in this manual can result in potential for serious injury to the user and damage to the weapon.**

INSTALLATION OF THE MOUNTING STUD

Before installing (or removing) the suppressor on the weapon, be certain to remove the magazine, open the action, and visually ascertain that the weapon is unloaded.

The mounting stud is designed to mount on any barrel threaded 1/2x28 for the Gemtech Outback or Vortex-2. The thread specifications are 1/2x28 (Class 2B fit) and no longer than 0.41 inches. The threads must have a sharp 90° shoulder at the back of the threads. Because the mounting stud is the alignment surface for the suppressor, it is mandatory that all threads be concentric with the bore axis. See Drawing P. 9.

Degrease both the barrel threads and the mounting stud with methyl-ethyl-ketone, acetone, or a similar solvent. Apply one drop of Loctite 242 (blue) to the threads and tighten the stud as tight as possible by hand. It is acceptable to mount the suppressor and hand tighten slightly more. Never use a tool to tighten the mount. Doing so will damage the precision ground surface of the mounting stud.

Additional mounting studs are available from Gemtech. Do not move the stud from weapon to weapon.

ATTACHING THE SUPPRESSOR

Before installing (or removing) the suppressor on the weapon, be certain to remove the magazine, open the action, and visually ascertain that the weapon is unloaded.

The mounting system is similar to a quick detach air hose fitting. While holding the suppressor in one hand, withdraw the spring-loaded collar on the mount so the silver band on the black sleeve is plainly visible. Slide the suppressor over the mounting stud and release the collar. If any portion of the silver band on the inner sleeve shows, rotate the suppressor until the locking balls engage the recesses in the mount and the sleeve snaps closed to completely cover

the silver band. **If the silver band is visible, the suppressor is not locked on the mounting stud and shooting will result in damage to the suppressor.**

1. Orient suppressor and barrel with mounting stud installed.



2. Pull back locking collar in preparation for attaching suppressor to weapon



Unlocked silver ring shows

3. Slide onto mounting stud on weapon and release locking collar



WARNING:

Silver band visible—Suppressor is not locked on mounting stud

4. Rotate as needed until locking balls seat and collar snaps rearward hiding silver band on black inner sleeve.



Silver band on black sleeve no longer visible. Suppresser is locked on mount and safe to shoot.

★ ★ ★ ★ ★ **DANGER** ★ ★ ★ ★ ★

☞ **Before performing any maintenance operation, always remove the magazine from the firearm, open the action, and visually ascertain that the chamber is empty and the weapon unloaded. Failure to do so can result in potential for serious injury to the user and others in the vicinity.**

MAINTENANCE

The design of the SEAHUNTER™ allows for maintenance without disassembly. Because of the precision fit of the mounting parts and the mounting stud, it is necessary to keep these items spotlessly clean. The mounting stud on the barrel can be cleaned with any normal firearms cleaning solvent. The mating sleeve is hard black anodized high-tensile strength aluminum and should be cleaned with a soft swab moistened in WD-40, Kroil, or similar solvent. Following cleaning, lightly oil the mating parts with a Teflon based oil, such as Break-Free.

At intervals of approximately 500-1,000 rounds, immerse the silencer in an appropriate solvent such as Slip-2000® Carbon Cutter, Kroil®, WD-40®, or a 2:1 mixture of mineral spirits and automatic transmission fluid. After soaking and sloshing the solvent, drain with the coupler (rear) end down. Never use ammonia-based solvents, including Hoppe's and GI bore cleaner. They will damage the internal aluminum parts.

Although the external parts of the suppressor are constructed of titanium, some of the internal parts may be aluminum. Because of this, we discourage the use of water-based solutions for cleaning. Ultrasonic cleaners are of marginal value with hydrocarbon-based solvents and should not be used. Compressed air can be used to speed the removal of excess fluids. Try to remove as much solvent as possible, but do not be overly concerned about achieving total

drainage. A suitable immersion tank can be made from a 7" piece of 1" PVC pipe and matching endcap.

★ ★ ★ ★ ★ **CAUTION** ★ ★ ★ ★ ★

☞ **Always read the warning label on any cleaner or solvent, and remember that virtually all solvents are inherently dangerous and potentially toxic. Always use adequate ventilation and both skin and eye protection when using organic solvents.**

We discourage any attempt at disassembly of the unit. Internal parts orientation is critical to the efficient operation of the suppressor, and reassembly requires special tooling and jigs available only at the factory. Any attempt at disassembly will void the warranty.

PHYSICAL SPECIFICATIONS

| | |
|-------------|-----------------|
| Length | 6 in. (152 mm) |
| Diameter | 1 in. (25 mm) |
| Weight | 4.5 oz. (128 g) |
| Suppression | 39 dB* (dry) |
| Caliber | .22 S, L, LR |

*NOTES:

1. Degree of suppression varies with barrel length. Measurements were made on a Walther PPK/s pistol. Although degree of suppression will be somewhat less on a longer barreled weapon (such as a rifle), the absolute suppressed sound pressure level will be comparable regardless of the barrel length. A longer barreled weapon has a lower non-suppressed sound signature.
2. Spectrum analysis has shown that 38% of the sound energy has been shifted above the range of human hearing.
3. This suppressor has not been tested with rimfire cartridges larger than .22LR, such as .22 Magnum or .17HMR. Use of this ammunition is done at the owner's sole risk and will void any warranty.

WARRANTY STATEMENT

The Magnuson-Moss Act (Public Law 93-637) does not require any seller or manufacturer of a consumer product to give a written warranty. It does provide that if a written warranty is given, it must be designated as "full" or as "limited" and sets minimum standards for a "full" warranty.

GEMTECH has elected not to provide any written warranty, either "limited" or "full," rather than to attempt to comply with the provisions of the Magnuson-Moss Act and the regulations issued thereunder.

There are certain implied warranties under state law with respect to sales of consumer goods. As the extent and interpretation of these implied warranties varies from state to state, you should refer to your state statutes.

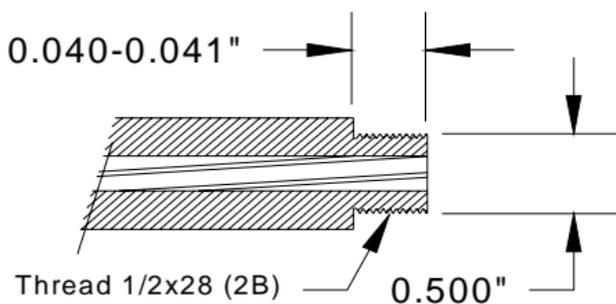
GEMTECH certifies that all sound suppressors manufactured by them are free of defects in materials or workmanship, and that they meet manufacturing specifications at the time of manufacture. Gemtech disavows responsibility for damages resulting from neglect, abuse, misuse, or acts of war.

GEMTECH denies any liability resulting from the use, abuse, or criminal misuse of this product.

Gemtech maintains complete repair facilities for all suppressors manufactured by them or their antecedent companies. Please contact Gemtech for details should return be necessary.

If repairs are required due to a defect in manufacturing or materials, there will be no charge for repairs. Otherwise, the owner will be invoiced for both time and materials required.

Barrel Threading Specifications Gemtech Seahunter Stud



NOTE: If barrel threads too long, use spacer or shorten barrel

All Gemtech products are
100% manufactured in the
United States of Ammerica.

