

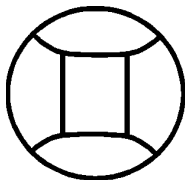
TM-OUTBACK

OPERATION AND MAINTENANCE OF SOUND SUPPRESSOR MODEL

OUTBACK-II

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

Manufactured by



GEMTECH®
Div. of Gemini Technologies, Inc.
P.O. Box 140618
Boise, Idaho 83714

ISSUED: October 31, 2006

★ ★ ★ ★ ★ **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-OUTBACK

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SOUND SUPPRESSOR MODEL
OUTBACK-II (.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 Outback™ is a highly advanced suppressor design based on experience with the highly successful Vortex-2 muzzle suppressor. The OUTBACK-II has the more efficient baffle stack associated with the current Vortex-2 and Seahunter suppressors. The Outback™ is constructed of high tensile strength aluminum with a black anodize finish. No packing material or wipes are used in these units. Designed to meet requirements for an affordable, 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. Engineered so that there is no necessity for disassembly for maintenance, the Outback™ can be cleaned adequately by immersion in solvents.

The Outback-II features a titanium thread insert to prevent thread wear occasionally possible with aluminum threads. Titanium does not gall on properly threaded steel barrels.

The Outback-II™ will achieve its rated sound reduction specification when dry. Although not considered of benefit, if an ablative is desired, use only oil-based mediums. Never use water, which can damage aluminum.

AMMUNITION RECOMMENDATIONS

Because this is a muzzle suppressor, there is no velocity control of the projectile. On rifles, HV ammunition will be accompanied by the "ballistic crack" of the bullet in flight. For maximum suppression effect, we suggest

the use of standard velocity target type .22 rimfire ammunition such as CCI Green Tag or standard velocity ammunition. Hyper velocity cartridges such as the CCI Stinger® and Remington Yellow Jacket® will cause a significant increase in sound signature. These cartridges should be avoided if possible. We have had good results using Winchester and Remington Subsonic hollow point .22LR as well as CCI Green Tag Competition® .22LR cartridges. This suppressor is designed only for .22 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 twists 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

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 suppressor mounts on conventional 1/2x28 (Class 2A) threads. Maximum thread length on the barrel is 4/10 inch. For proper alignment, the muzzle threads must be absolutely concentric with the bore and must have a 90° rear shoulder perpendicular to the bore. We cannot guarantee alignment on improperly threaded barrels. Threading specifications are on P. 5.

Screw on finger tight only. **DO NOT overtighten.** There is no need to “monkey grip” it in place.

☆☆☆☆☆ **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 and CLEANING

As a general rule (and contrary to popular opinion), suppressors have a longer life if no attempt is made at cleaning. There are no perfect solvents for the carbon deposited on the internal parts by the burning of the powder, and some carbon residues will slightly enhance performance.

The design of the OUTBACK suppressor is such that any liquid introduced in a cleaning process may not drain completely, and its presence will generate more sludge and residue within the suppressor than not cleaning.

The suppressor is all aluminum, and many normal gun cleaning solvents will damage aluminum. These include Hoppe's, Sweets, GI Bore Cleaner, and all water-based agents (such as SLIP-2000, MP-7, Simple Green, etc.). Water should never be used.

What does have merit is to occasionally blow out the suppressor with dry compressed air to blow out loose powder granules. Blowing should be done first from the rear and second from the front.

Any other attempt at cleaning may well shorten the life of the suppressor. If it becomes necessary, the suppressor can be rebuilt to factory new condition at a reasonable cost.

If the user feels compelled to clean the suppressor, immerse only in hydrocarbon-based solvents such as mineral spirits, WD-40, or lacquer thinner.

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.

☆☆☆☆ **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.**

PHYSICAL SPECIFICATIONS

| | |
|-----------------------------|----------------------|
| Length | 5.1 in. (130 mm) |
| Diameter | 1 in. (25 mm) |
| Weight | 2.5 oz. (75 gram) |
| Muzzle threads | 1/2x28 (Class 2A) |
| Maximum Thread Length | 4/10 inch (see P. 5) |
| Degree of Suppression (dry) | 39 dB |
| Test Weapon | Walther PPK/s |
| Test Ammunition | CCI Green Tag |

WARRANTY STATEMENT

Our "warranty" has been practiced since our personnel started in the suppressor business in 1976, in a time before legalese and when a handshake and this simple statement sufficed: "If a Gemtech product breaks and it's your fault, we'll fix it for a fair price in a timely manner. If it's our fault, we'll fix it quickly at no charge." This policy born of pride in craftsmanship and honor has served us and our clients well for over two decades and will continue in Gemtech's future.

The small print follows:

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.

As do all major firearms manufacturers, 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.

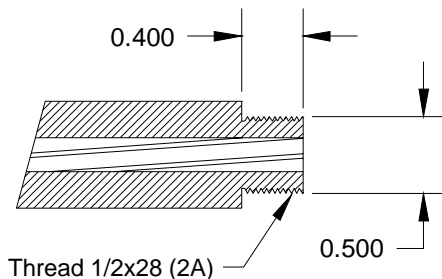
There are certain implied warranties under state law with respect to sales of consumer goods. As the extent and interpretation of these implied warranties varies from state to state, you should refer to your state statutes.

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.

It is our intent that the customer be completely satisfied with the product. Certain Gemtech products may be classified as ordnance and/or implements of war and are sold by us with the specific understanding that Gemtech has taken every reasonable precaution in providing our customers with inherently safe merchandise, and that we assume no liability whatsoever for unsafe handling by the purchaser or his agents. Gemtech assumes no responsibility whatsoever and we will honor no claims for damages, regardless of nature, for physical injury or property damage resulting from careless and/or irresponsible handling, adjustments to equipment, neglect or abuse.

Gemtech reserves the right to make changes at any time and without notice, in prices, to change specification or design, to add or remove accessory materials, and to add or delete items without incurring any obligation.

Barrel Threading Specifications Gemtech Vortex-2 and Outback



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

