

# TM-OUTBACK

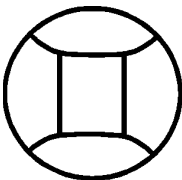
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## OPERATION AND MAINTENANCE OF SOUND SUPPRESSOR MODEL

### OUTBACK and OUTBACK-II

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

Manufactured by



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★ ★ ★ ★ ★ **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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**TM-OUTBACK**

OPERATIONAL MANUAL FOR  
SOUND SUPPRESSOR MODEL  
OUTBAC AND 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 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™ will achieve its rated sound reduction specification, in excess of 34 dB on a pistol, when completely dry (39 dB for the Outback-II).

**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 Remington Subsonic .22LR Hollow Point ammunition. Hyper velocity car-

tridges 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

The design of the Outback allows for maintenance without disassembly. At intervals of approximately 500 rounds, it is beneficial to submerge the silencer in an appropriate solvent such as WD-40® or a 3:1 mixture of mineral spirits and automatic transmission fluid. Allow the unit to soak as long as possible and then allow it to drain threaded (rear) end down. We suggest against the use of an ultrasonic cleaner, which may possibly damage aluminum. Compressed air can be used to speed the removal of excess fluids if desired. However a small oil or solvent residual will enhance the operation and diminish first round flash. **Water based materials, acids, or alkaline materials must not be used for cleaning as water damages aluminum.**

☆☆☆☆ **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	5.2 in. (133 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)	34 dB* (39 dB Outback II)
Test Weapon	Walther PPK/s
Test Ammunition	CCI Green Tag

\*NOTES:

1. Degree of suppression varies with barrel length. Measurements were made on Walther pistols as noted. 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. All sound measurements were made in compliance with MIL-STD-1474D specifications for small arms sound measurements. Sound test equipment used meets or exceeds the requirements specified by MIL-STD-1474D and has calibration certification by the manufacturer traceable to the National Institute of Standards and Technology. Copies of the certification are available.

### 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.

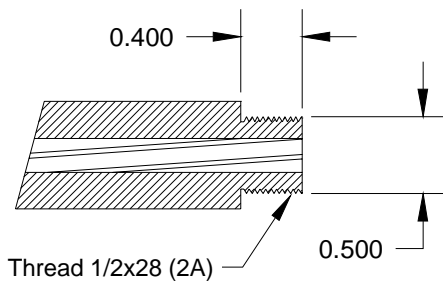
GEMTECH has followed the lead of all major firearm manufacturers and has elected not to provide any written warranty, either "limited" or "full," rather than to attempt to comply with the provisions of the Magnuson-Moss Act and the regulations issued thereunder.

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.

### Barrel Threading Specifications Gemtech Vortex-2 and Outback



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

