

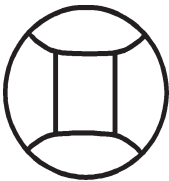
# TM-TUNDRA

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## OPERATION AND MAINTENANCE OF SOUND SUPPRESSOR MODEL TUNDRA

**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: April 15, 2008

★ ★ ★ ★ ★ **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-TUNDRA

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**TM-TUNDRA**

OPERATIONAL MANUAL FOR  
SOUND SUPPRESSOR MODEL  
TUNDRA™ (9mm)

*Manufactured by*

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**WARNING:**

**Never use any ammunition that does  
not meet SAAMI specifications**

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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 9mm Tundra™ suppressor was designed to meet specific requirements. The primary design goals were:

- 1) The suppressor should be lightweight, reasonably compact, and mount easily on 9mm threaded pistol barrels.
- 2) It should be easy for the user to change the muzzle mounting threads in the field.
- 3) Sound reduction efficiency should be comparable to or better than any similar suppressor on the market, and the suppressor should obtain rated efficiency dry and without the use of internal liquids or greases.
- 4) Construction should be of corrosion resistant materials with no internal mesh packing, wipes, or replaceable materials.
- 5) Accuracy should not be affected adversely, and there should be no deflection of the projectile resulting from any cause, including internal gas turbulence or wipes.

The Tundra™ meets and exceeds all of these standards. Designed for 9mm pistol usage, it is a highly effective 9mm sound suppressor in a light-weight package that will cycle all known 9mm semi-automatic pistols with the built-in LID-8 (Linear Inertial Decoupler/recoil booster) which permits cycling without damaging the host weapon.

The threads available are the common USA 1/2-28 and the European standard M13.5x1-LH. See L.I.D. service instructions on page 6 for changing the thread pattern.

## OPERATIONAL NOTES

The suppressor was designed to operate dry and meets its rated specifications absolutely dry.

The performance of the Tundra™ suppressor can be enhanced by adding a small amount of ablative agent, such as light oil, in the rear chamber. The design of the suppressor is such that this small amount of oil will be effective for in excess of 2 magazines. The amount of oil needed is less than 1/4 teaspoon (1 cc) and is added by spraying or squirting a small amount in the rear of the suppressor.

Some have suggested the use of water. Although a good ablative, we have found that water can corrode aluminum. For this reason, **we strongly suggest against the use of water in this suppressor.**

## PHYSICAL SPECIFICATIONS

Length basic suppressor (O.A.)	7.6 inches
Diameter	1.25 in.
Weight	7.2 ounces
Construction materials	High tensile aluminum alloys
Standard Finish	Matte, Black Anodize

NOTE: Performance will vary slightly with ammunition, weapon, and atmospheric conditions.

### ★ ★ ★ ★ ★ 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.

☞ Before initiating Mount/Dismount Procedures, be absolutely certain that the weapon is unloaded, the magazine removed, and the slide locked in the rear position.

## ALIGNMENT and USAGE NOTES

We guarantee alignment of this suppressor only on barrels threaded or modified by us, the weapon's original manufacturer, or barrel makers approved by us. Do not use this suppressor on barrels threaded by other firms without first submitting the proposed barrel to us for alignment gauging. Special gauges must be used to insure proper alignment. Barrels requiring special welding and extension modifications cannot be covered under any warranty.

## ATTACHMENT TO WEAPON

Most Browning-design handguns have difficulty cycling with a suppressor. In these weapons, the rear of the barrel drops during the unlocking process, and the weight of a suppressor on the muzzle may prevent complete unlocking.

Historically, a recoil booster (referred to as the Neilsen Device) has been used to enhance the recoil enough to permit cycling. This device has a piston attached to the barrel, which hammers the end of the barrel, forcing unlocking. If not tuned for a specific weapon, this hammering can damage the pistol.

The Linear Inertial Decoupler (LID-8) utilizes a different principle and isolates the mass of the suppressor from the barrel for a short period of time, permitting cycling initialization. It has no piston and cannot damage the host weapon. The LID-8 can be indexed for point of impact shift by pulling on the suppressor about 1/8 inch and rotating the suppressor as needed.

The LID-8 is available threaded the standard 1/2-28 or the European M13.5x1-LH.

If the suppressor is allowed to loosen during firing, internal damage can occur. Damage to the unit due to internal bullet strikes will not be covered under warranty, and we deny liability for injury or damage caused by misalignment or unscrewing of the suppressor. Any repairs that are necessary due to user misuse or neglect will be invoiced to the user on a time and material basis.

## AMMUNITION NOTES

Most commercially produced 9mm ammunition can be used with the TUNDRA™ provided they meet SAAMI specifications. Since most cartridges will drive projectile speed to a supersonic velocity, the lowest operational sound signature will be obtained by using a subsonic cartridge. We have found that the 147 gr. FMJ subsonic commercial ammunition by manufacturers such as Winchester, Black Hills, and CCI to be generally suitable.

The majority of 9mm ammunition is supersonic, and the projectile traveling at velocities above 1,050 fps will produce a ballistic “crack” or “sonic boom”. There are several commercial sources of specially loaded subsonic 9mm ammunition, and for maximum effectiveness, we suggest the use of this type ammunition. Although special 9mm subsonic ammunition has a bullet muzzle velocity below 1,050 fps, the higher bullet weight results in a significantly higher bullet kinetic energy. Subsonic 9mm ammunition is usually loaded utilizing bullet weights of 147 grain or heavier. Some ammunition utilizing bullet weights of 155 grain or more may be significantly over pres-

sured in some weapons. 147 grain FMJ and JHP bullets for 9mm reloading are available from a variety of suppliers, including Hornady and Speer. We discourage the use of cast lead bullets, which will cause the condensation of lead vapors on the internal parts. Loading data for 9mm subsonic ammunition is available from a number of sources, including the Speer Supplement (available from Speer for their 147 grain TMC bullets), and from Accurate Arms for use with their powders. **However, we caution against any attempt to hand load beyond recommended SAAMI specifications.**

We strongly suggest against the use of corrosive ammunition, and evidence of its use will void the warranty.

Some have suggested that the 9mm subsonic cartridge is “down-loaded”. Users should be aware that this is not an anemic load. This is a very effective cartridge. Do not direct it toward anything you do not wish to harm.

☆☆☆☆☆ 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

☞ 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.

## ROUTINE 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. Field experience has shown that the suppressor will outlast a number of barrels.

The design of the TUNDRA 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 for the user 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 internal components of the suppressor can be rebuilt to factory new condition at a reasonable cost.

Other than disassembly of the LID-8, any attempt at disassembly of the suppressor (see below) will void the warranty.

We do suggest spraying the inside with a Teflon based lubricant (such as Break Free) to decrease carbon buildup within the suppressor. Although it will generate some smoke on initial firing, it will also significantly enhance performance (by approximately 10 dB).

### **SERVICING THE LINEAR INERTIAL DECOUPLER (LID-8)**

Disassembly of the LID-8 does not require its removal from the suppressor. Cleaning and lubrication should be performed every 100-200 rounds.

1. Remove the suppressor from the weapon.
2. Unscrew the retaining plate in the rear of the LID-8 No tools are required
3. Pull out the core and spring. At this time the core can be changed to a different thread pattern if desired.
4. The "O" ring in the retainer can be replaced if damaged. Use only Viton O-rings, not neoprene.
5. Lubricate the guide and inside of the mount with a thin film of Permatex Super-Lube or similar synthetic grease.
6. Reassembly is the reverse of disassembly. Do not use Loctite on the threads of the retainer.





**THREAD AVAILABILITY**

Central cores for the L.I.D. are available for the following thread patterns:

1/2-28 - 2A (Standard USA threaded 9mm barrels)

M13.5x1-RH (Standard European 9mm barrels)

**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.

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

