

TM-MULTIMOUNT

OPERATION AND MAINTENANCE OF SOUND SUPPRESSOR MODEL MULTIMOUNT⁻²⁰¹²

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

Manufactured by



GEMTECH
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P.O. Box 140618
Boise, Idaho 83714

ISSUED: November 29, 2013

★ ★ ★ ★ ★ **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-MULTIMOUNT

FIRST EDITION	February 2008
SECOND EDITION	November 2011
THIRD EDITION	November 2013

Published by:

ATI Star Press
Antares Technologies, Inc.
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TM-MULTIMOUNT

OPERATIONAL MANUAL FOR SOUND SUPPRESSOR MODEL MULTIMOUNT-2012 (9mm)

This manual applies to Multimount suppressors
serial number S11-48336 and higher

Manufactured by

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WARNING:

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

IMPORTANT

The manufacturer disclaims any liability for damages resulting from any unauthorized modification of this product. Any modification of this suppressor without prior express authorization from Gemtech's Engineering Department will void all warranties, both written and implied, and will result in the assumption of all liability by the person performing the unauthorized modification.

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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 MultiMount™ 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) 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.
- 3) Construction should be of corrosion resistant materials with no internal mesh packing, wipes, or replaceable materials.
- 4) 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.
- 5) The suppressor should have multiple mounting options for increased versatility by means of user replaceable rear mounts.
- 6) By popular request, Multimount suppressors serial number S11-48336 and higher feature a titanium blast baffle and may be fully disassembled by the user for maintenance.

The MultiMount™ meets and exceeds all of these standards. Designed for general 9mm usage, it is a highly effective 9mm pistol sound suppressor system in a lightweight package that will cycle the majority of 9mm semi-automatic pistols with the LID-8 (Linear Inertial Decoupler/recoil booster). The Multimount also featured a titanium blast baffle for increased durability.

Most 9mm handguns with movable barrels may have difficulty cycling. For these, Gemtech offers our Linear Inertial Decoupler. The LID-8 is an accessory rear mount that permits cycling without damaging the host weapon.

In addition, mounting systems are available in two other configurations: (1) for the HK MP5 3-lug barrel and other similarly configured barrels and (2) as the suppression module of an integral 9mm upper receiver for the Colt 635 submachine gun.

OPERATIONAL NOTES

The performance of the MultiMount™ suppressor can be enhanced by adding a small amount of ablative agent, such as light oil or grease, in the rear chamber. The design of the suppressor is such that this small amount of oil will be effective for in excess of two magazines. The amount needed is less than 1/2 teaspoon (2.5 cc), and is added by spraying or squirting a small amount in the rear of the suppressor. Excessive ablative material can damage the suppressor.

Some have suggested the use of water or water-based gels. Although a good ablative, we have found that water can corrode aluminum and damage portions of the recoil booster option (LID). For this reason, **we strongly suggest against the use of water in this suppressor.**

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

PHYSICAL SPECIFICATIONS

Length of basic suppressor (O.A.)	7.1 inches
Diameter	1.38 in.
Weight	8 ounces
Sound Reduction	>32 dB (dry)
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.

CHANGING THE MOUNT:

The rear mount of the MultiMount suppressor is classified as an adapter (rather than a suppressor part) and designed specifically for field replacement by the user. As such, it is important that no thread adhesive (such as Loctite) be used. Changing the mount is simply a matter of unscrewing one and screwing in the desired mount. We suggest a small dab of grease, nondrying anti-seize compound, or Vaseline be used on the threads to prevent seizing. It may be necessary to use a grip enhancer (such as a piece of inner-tube) for a better grip on the existing mount.

In the case of the Talon-II suppressed upper receiver, the MultiMount simply screws onto the mount already attached to the barrel inside the floating handguard.

MOUNTING ON HK WEAPONS

Although some versions of the HK MP5 submachine gun have muzzle threads, we suggest utilizing the 3-lug mount whenever possible, as it is a superior and more stable mount than virtually all thread mounting systems.

The MultiMount™ using the Tri-Lock coupler must never be mounted on a 3-lug "Navy" threaded barrel *without* a thread protector in place. The thread protector must be smooth and have a diameter of 0.5900 (± 0.0005) inches at the muzzle. Failure to observe this caution will void the warranty and will result in misalignment. If there is any question, we can provide a suitable thread protector.

We guarantee alignment of the MultiMount™ suppressor only on original non-threaded German 3-lug H&K MP5 barrels and those manufactured to German Heckler & Koch specifications. Mounting on non-specification barrels or threaded barrels with non-Gemtech thread protectors is done at the operator's risk.

While the MultiMount-3-lug configuration is suitable for 9mm fully automatic fire, it does not have the longevity of the proven Raptor suppressor for the MP5. For abusive MP5 firing, we suggest using the Raptor, which was designed for serious fully automatic fire.

MOUNTING ON the UZI/Mini-UZI:

The UZI adapter mounts in place of the original barrel-retaining nut. It is designed to accommodate the barrel length/design of both the original UZI submachine gun as well as the Mini-UZI. It requires original submachine gun barrels and will not mount on the semi-auto UZI carbine. Because of different barrel retaining nuts, it will not mount on the UZI pistol.

THREAD MOUNTING (HANDGUN OR CARBINE)

The MultiMount™ can be attached directly to a threaded barrel. The standard thread mount is suitable primarily for fixed-barrel weapons, such as carbines and the HK P9S. Commonly available threads are 1/2-28 and 1/2-36 (carbines).

Tighten firmly hand tight. Because silencers using single point thread mounting may unscrew during use, it is the shooter's responsibility to frequently check to be certain that the suppressor remains tightly screwed on the barrel at intervals not to exceed one magazine.

LINEAR INERTIAL DECOUPLER

The Linear Inertial Decoupler (LID-8) is also referred to as a recoil booster. 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.

The Linear Inertial Decoupler (LID-8) isolates the mass of the suppressor from the barrel for a short period of time, permitting cycling initialization. It consists of a spring loaded piston (which carries the barrel threads), a spring, and a housing (which screws into the back of the Multimount). The LID can be indexed for point of impact shift by pulling on the suppressor about 1/8 inch and rotating the suppressor as needed.

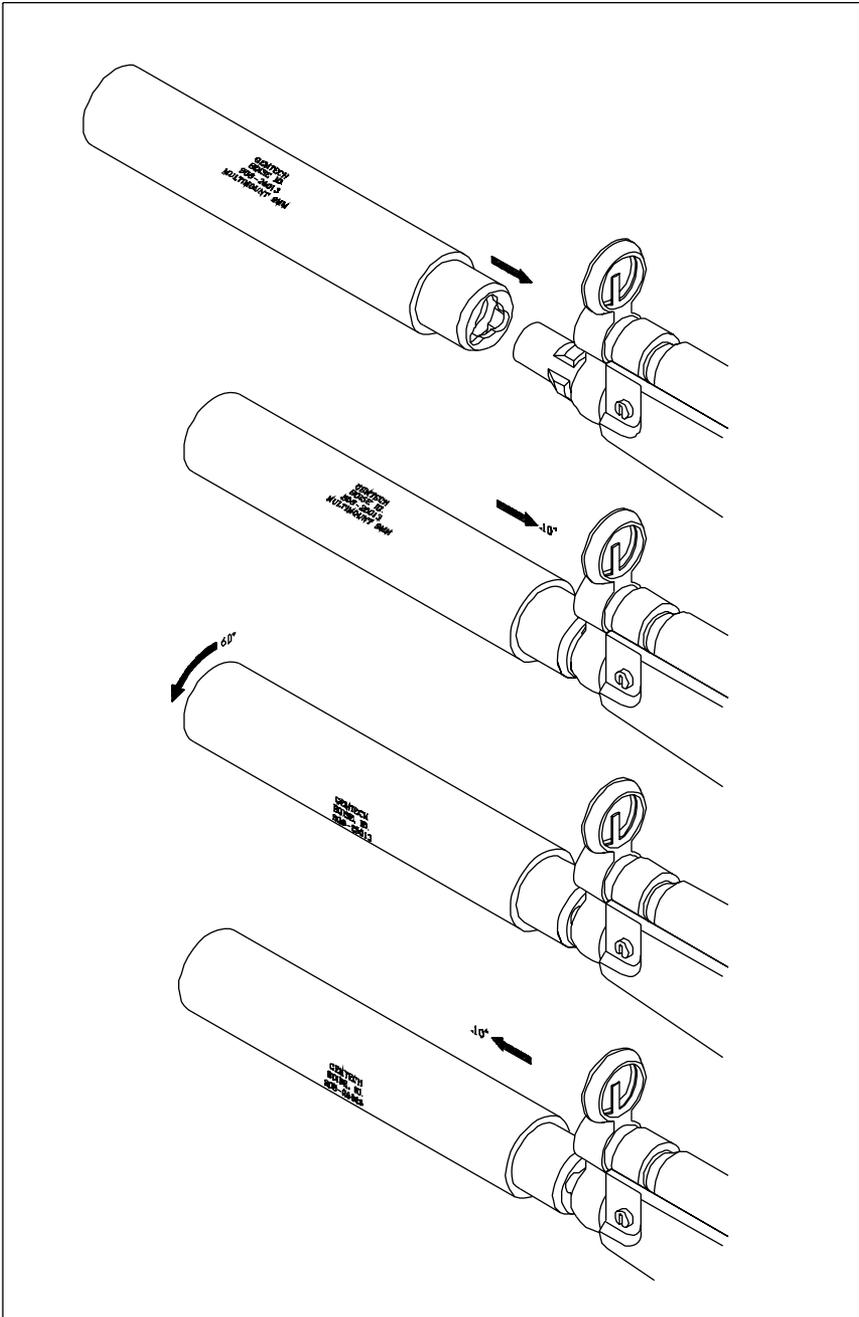
The LID-8 is available threaded the standard 1/2-28 or the European M13.5x1-LH.

HK-Style 3-LUG MOUNT

The 3-lug mount is a simple push-and-twist mounting system similar in function to a child-proof medication bottle. It incorporates the Gemtech Tri-Lock mounting system (US Patent No. 5,559,302).

1. Be certain the weapon is unloaded, the magazine removed, the safety on, and the bolt locked in the open position.
2. Align the grooves in the silencer mount with the lugs on the barrel.
3. Pull the silencer onto the barrel against spring tension until the silencer can be rotated counter clockwise while holding the weapon in the firing position.
4. Rotate the silencer 60° until it stops and release pressure on the silencer. Rock the silencer to be certain that the lugs have engaged the pocket recesses in the mount.
5. Removal is the reverse of installation. It will be necessary to pull the silencer rearward in order to rotate it 60° clockwise.

HK MP5 MOUNTING



TALON SUPPRESSED UPPER RECEIVER

It is necessary to remove the existing upper receiver from the Colt 635 submachine gun prior to installing the TALON-II suppressed upper receiver.

REMOVING THE EXISTING UPPER RECEIVER

1. Remove the magazine, open the bolt, and visually check to see that the weapon is both unloaded and the chamber empty. Close the bolt.
2. Push the rear takedown pin from the left side of the weapon as far as it will go. Pivot the upper receiver from the lower receiver.
3. Remove the bolt and charging handle.
4. Push the front takedown/hinge pin from the left as far as it will go and remove the upper receiver.

INSTALLING THE TALON-II SUPPRESSED UPPER RECEIVER

1. Install the charging handle and bolt in the TALON-II upper receiver and close the bolt.
2. Join the upper and lower receivers. Push the front takedown/pivot pin to the left.
3. Pivot the upper receiver to the lower receiver and engage the rear takedown pin.

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.

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 cartridges can be used with the MultiMount™ provided they meet SAAMI specifications. The majority of 9mm ammunition with bullet weights less than 140 grains is supersonic, and the projectile traveling at velocities above Mach 1 will produce a ballistic "crack" or "sonic boom." The lowest operational sound signature will be obtained by

using a subsonic cartridge. Because most 9mm semi-auto pistols are recoil operated, many weapon/cartridge combinations will require the use of the LID recoil booster to reliably cycle the action. The 147 gr. FMJ subsonic commercial ammunition by manufacturers such as Winchester, Black Hills, and CCI will remain subsonic in handguns chambered for the 9mm Luger cartridge. However, a number of these will be supersonic in carbines and submachine guns with longer barrels.

9mm subsonic ammunition has a bullet muzzle velocity below 1,050 fps, the higher bullet weight results in a comparable kinetic energy. European 9mm ammunition loaded with 158 grain projectiles often have pressures bordering on or exceeding the +P+ specification and may not be appropriate for weapons other than open-bolt submachine guns.

Gemtech is now producing a 9mm cartridge with a FMJ bullet of 153 grains that remains subsonic even in carbines. Featuring velocities comparable to commercial 147 grain ammunition, the increased bullet weight results in increased kinetic energy and recoil impulse to aid weapon cycling.

For handloaders, 147 grain FMJ and JHP 9mm bullets 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 baffles. 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 and damage resulting from non-factory or corrosive ammunition is not covered under warranty.***

Some have suggested that the 9mm subsonic cartridge is “downloaded”. 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.

ROUTINE CLEANING

Effective with production Multimount serial number S11-48336 and higher, the suppressor can be completely disassembled by the user for cleaning and maintenance.

DISASSEMBLY

Disassembly must be performed at intervals to not exceed 250 rounds. Failure to perform timely maintenance will allow carbon to plate on the inside of the outer tube through vents in the baffles. This will result in difficult removal of the baffles with possible damage. Damage to parts during disassembly or re-assembly are not covered under warranty.

1. Unscrew front end cap. There are several tools that can be used. Frequently bicycle repair shops have a simple adjustable 2-pin face spanner wrench with 1/8 inch pins. A suitable adjustable or fixed pin spanner can

be fashioned or needle-nose pliers can be gently used. As an option, Gemtech has available an aluminum face spanner wrench for this hole pattern.

2. Push out the baffle stack from the rear with a 3/4 to 1 inch wood dowel. There are seven baffles, two of which are different from the other five and from each other.
3. Do not attempt to unscrew the rear mount from the tube. This is a stainless sleeve that accepts the various mounts. There is no need for removal.

There are no perfect solvents for carbon or lead. When disassembled, water-based agents may be used, because the parts can be thoroughly rinsed and dried before re-assembly. It is important to remember that many of these agents are alkaline (ph >8), which can strip the anodized finish on the external parts.

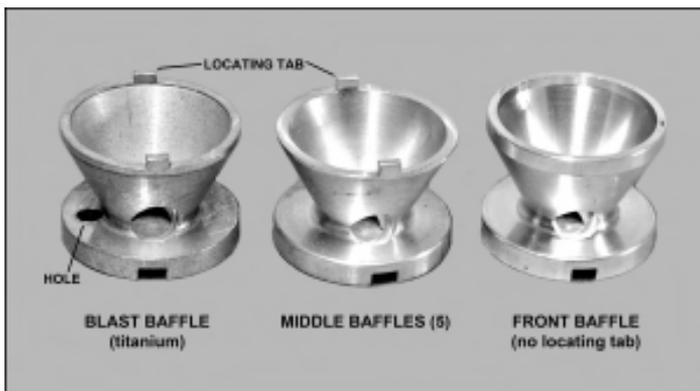
We have moderate experience with some of the carbon softening agents, such as LRM Carbon Cutter (352-317-5868). Other suggested cleaning agents are automotive brake cleaning solution and Gunzilla. Limited immersion in an ultrasonic cleaning tank is of benefit. We suggest against bead or sand blasting, but soda blasting of baffles is acceptable. It is not necessary to have the internal parts bright and shiny.

All parts should be thoroughly rinsed and dried prior to reassembly.

REASSEMBLY

The only tool necessary for reassembly is a 3/8 inch diameter rod or wood dowel for stacking the baffles prior to insertion in the tube.

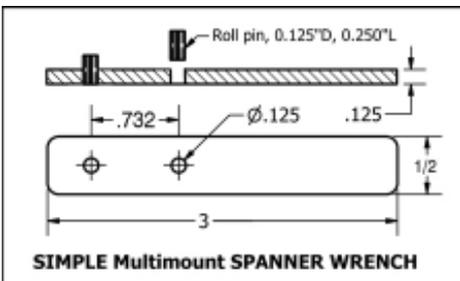
There are three different baffles (all K-type), and their stacking order is important. The five middle baffles have indexing tabs. The rear (blast) baffle differs from the others in that it is titanium and has a hole in the flat portion of the "K." The front baffle differs in that it does not have the locating tabs.



The simplest method of reassembly is to stack the baffles in the proper sequence and orientation on a 3/8 inch diameter rod or dowel approximately 7 inches long. All baffles are stacked with the same orientation.

1. Place the front baffle, cone down, on the rod. This is the baffle with no locating tabs on the end of the cone. Orient this baffle conveniently for reference. The easiest reference point is the port in the side of the baffle.
2. Stack the five middle baffles on top of the front baffle maintaining the same rotational orientation.
3. Last, stack the blast baffle with the same orientation.
4. Check baffle orientation. Be sure the tabs engage in the notches and the baffles are stacked smoothly.
5. Without moving the stack, slide the outer tube with the mount over the stack until the blast baffle is firmly against the rear mount inside the suppressor outer tube.
6. Invert the suppressor and screw in the front end cap. Gently snug the end cap.
7. If the front end cap will not screw flush with the outer tube, one of the baffle tabs is not engaged in the mating slot of the previous baffle. This will require disassembly and reassembly.

A drawing for a simple 2-pin spanner wrench is below. This can be made from almost any material, and the only important dimension is the distance between the holes (0.732 inches). 1/8 inch roll pins are the largest that can be used, but 3/32 inch roll pins are acceptable with appropriate hole sizes. As an alternative, needle nose pliers can be used cautiously.



The Gemtech wrench is a circular, anodized spanner wrench and is available separately for \$25 plus shipping.

IMPORTANT:

Both the Linear Inertial Decoupler (LID-8) and the 3-lug mount utilize some steel parts. While stainless steels are highly rust resistant, they are not actually rust-proof.

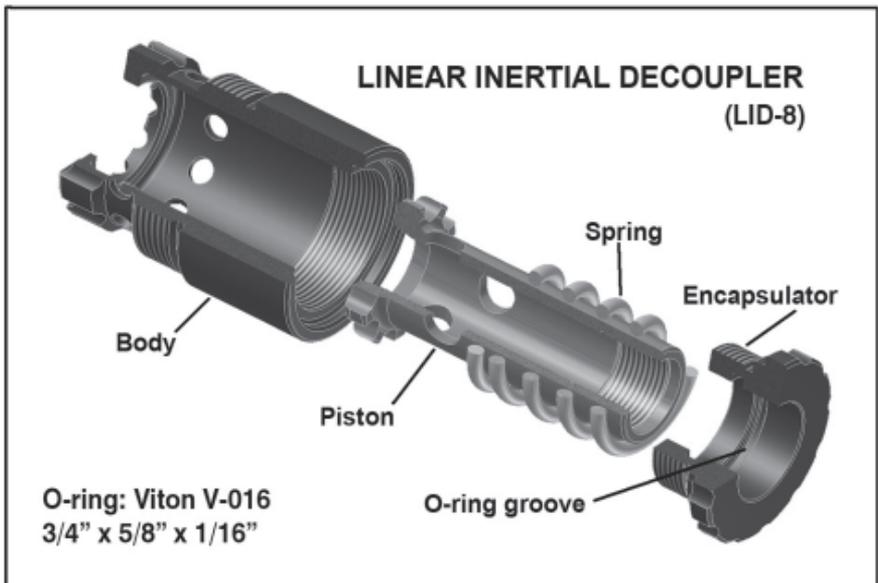
For this reason, it is important to never use water-based abrasives (including wire-pulling gel, ultrasound lubricant, etc) when using either of these devices.

It is also necessary to keep these devices well lubricated with grease, because they have moving parts.

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.
4. The "O" ring in the retainer can be replaced if damaged. Use only Viton O-rings, not neoprene.
5. Lubricate the piston and inside of the LID body with with a synthetic grease, such as Mobil-1
6. Reassembly is the reverse of disassembly. Do not use Loctite on the threads of the retainer.



SERVICING THE 3-LUG MOUNT

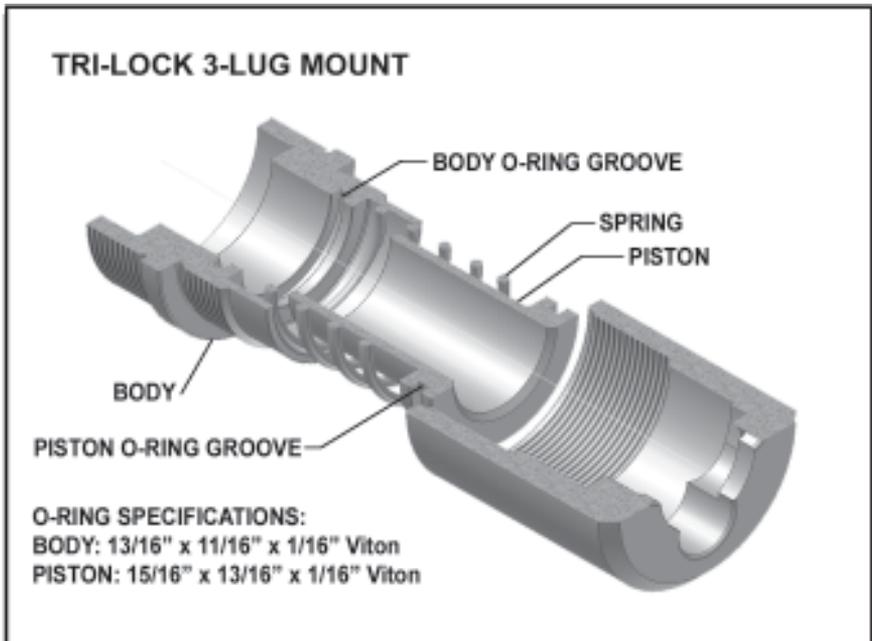
The MultiMount 3-lug mount can be easily disassembled for servicing, either installed or removed from the MultiMount suppressor.

1. Unscrew the knurled cap from the body.
2. Remove the spring-loaded piston from the mount body. Remove the spring.

Service consists of:

1. Replace the O-rings if necessary. The O-ring in the body can be removed with a dental pick.
2. Thoroughly clean the spring-loaded piston inside and out. Made of stainless steel, it can be cleaned with red Scotchbrite or fine steel wool moistened with WD-40.
3. Coat the outside of the piston with grease as well as the inside of the knurled cap. Lightly coat the inside of the mount body. Suitable greases include marine bearing grease, available at stores that sell boat trailers.
4. Insert the spring in the mount body followed by the piston (small end first). Replace the cap and screw hand tight. Do not use thread adhesives.

It is not unusual for a small amount of grease to be forced through the small vent hole in the knurled cap. This hole is to prevent pressurization of the mount.



LIMITED WARRANTY STATEMENT

Gemini Technologies, Inc., dba Gemtech warrants to the initial retail purchaser that Gemtech products will be free of defects in workmanship or material and that the product meets manufacturing specifications at the time of manufacture. This warranty is limited to the repair or replacement of the product. This express limited warranty is exclusive and no other express or implied warranty is otherwise provided.

GEMTECH MAKES NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. Product technical specifications and/or designs may be changed without notice. This warranty does not cover negligence, misuse, careless or improper handling and/ or operation, abuse, unauthorized adjustments or modifications, improper mounting or installation, ordinary wear and tear, the failure to follow manufacturer instructions and/ or the use of inappropriate or defective ammunition.

Gemtech shall have no liability for incidental or consequential damages and under no circumstances will Gemtech be liable for personal injury, property damage or economic loss. This warranty and disclaimer is subject to all applicable laws some of which may limit these terms.

REPAIR POLICY

Gemtech maintains complete repair facilities for all suppressors manufactured by them. Return authorization and shipping instructions must be obtained prior to return. Contact Gemtech for this information.

ATF no longer requires transfer on a Form 5 to the manufacturer for repair. However, they do require a letter accompanying the weapon detailing the repairs required as well as proof of ownership. This requirement is satisfied by a photocopy of the front of the owner's Form 3, 4, or 5.

NOTE: ATF prohibits transferring the serial number to a new outer tube in the case of damage to the tube. Tube damage will require a new suppressor.

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

