

GEMTECH[®]
SUPPRESSORS

Rifle Suppressors Safety & Instruction Manual For:

**ONE™, TRACKER™,
DAGGER™, GMT™-300 BLK,
GMT-HALO™, TREK-II™,
PATROLMAN™, SHIELD™, ARROW™**



WARNING: READ THESE INSTRUCTIONS AND WARNINGS AND THE SAFETY AND INSTRUCTION MANUAL FOR YOUR FIREARM CAREFULLY BEFORE USE. BE SURE YOU UNDERSTAND THEM BEFORE USING YOUR FIREARM WITH A SUPPRESSOR ATTACHED. FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS CAN RESULT IN SERIOUS INJURY OR DEATH TO YOU OR OTHERS AND DAMAGE TO PROPERTY.

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Springfield, MA 01104
PHONE: 833-350-9517**

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WARNING: THIS SAFETY & INSTRUCTION MANUAL SHOULD ALWAYS ACCOMPANY THIS SOUND SUPPRESSOR AND IT SHOULD BE TRANSFERRED WITH THE SUPPRESSOR UPON CHANGE OF OWNERSHIP. IF THERE IS ANYTHING IN THIS MANUAL YOU DO NOT UNDERSTAND, VISIT OUR WEBSITE (GEMTECH.COM) WHERE YOU'LL FIND:

- **FREE** copies of suppressor Safety & Instruction Manuals
([@Gemtech.com/manuals](http://Gemtech.com/manuals))
- **TECHNICAL** support
(Gemtech.com/technical-support)
- **CONTACT** information
(Gemtech.com/contact-us)

If the manual and website do not answer your questions, contact Gemtech customer support or get help from someone qualified in the safe handling of firearms and sound suppressors (e.g., firearms INSTRUCTOR).

PHONE: 833-350-9517
E-mail: techstaff@gemtech.com

VISIT www.gemtech.com
for accessories, adapters, and ammunition
manufactured or sold by:

GEMTECH
2100 Roosevelt Ave
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YOUR SAFETY RESPONSIBILITIES

SAFETY IS YOUR NUMBER ONE RESPONSIBILITY!!!!



WARNING: YOU MUST FOLLOW ALL OF THESE SAFETY RULES TO ENSURE THE SAFE USE OF YOUR FIREARM AND SUPPRESSOR. THE FAILURE TO FOLLOW THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL COULD CAUSE SERIOUS PERSONAL INJURY OR DEATH TO YOU OR OTHERS AND DAMAGE TO PROPERTY.

- **FIREARMS ARE DANGEROUS AND CAN CAUSE SERIOUS INJURY OR DEATH IF THEY ARE MISUSED OR USED INAPPROPRIATELY.** Safety must be the prime consideration of anyone who owns or handles firearms. Accidents are the result of violating the rules of safe firearm handling. As a firearm owner, YOU accept a demanding, full-time responsibility. How seriously you take this responsibility can be the difference between life and death. There is no excuse for careless or abusive handling of your firearm. At all times, handle your firearm with intense respect for its power and potential danger.

YOUR SAFETY RESPONSIBILITIES CONTINUED

- **AT HOME, IN THE FIELD, AT THE RANGE, OR ANYWHERE, THE FIRST CONCERN OF EVERY FIREARM OWNER SHOULD BE SAFETY.** To avoid serious injury or death to you or others, apply the following safety rules in every situation, with any kind of firearm. If you feel uncertain about any aspect of your firearm or suppressor, please contact your firearm's manufacturer or GEMTECH before proceeding with its operation. If you are unfamiliar with firearms, you should seek formal training before using your firearm.
- **NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM.**
- **TREAT EVERY FIREARM AS IF IT IS LOADED AND WILL FIRE.** Never assume and do not take anyone's word that a firearm is unloaded - always look to verify that there is no cartridge in the chamber. A firearm is considered "unloaded" only when the action is open, the magazine is removed, and you have visually verified that there is no cartridge in the chamber. Make sure the firearm is unloaded before attempting to mount or remove a suppressor.
- **ALWAYS FOLLOW THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL.** Use, installation and removal of this suppressor must be accomplished in accordance with the information contained in this manual.
- **SUPPRESSED FIREARMS ARE JUST AS DANGEROUS AS UNSUPPRESSED FIREARMS.** Because firearms with suppressors make less noise than firearms without suppressors, it is easy to forget that they are still firearms. Always remember that a suppressed firearm requires the same safe handling as an unsuppressed firearm. Since suppressors reduce the sound signature of firearms, the shooter must confirm that persons or animals do not accidentally cross the line of fire during use.
- **DO NOT USE A SUPPRESSOR FOR FULLY-AUTOMATIC FIRE UNLESS IT IS RATED FOR SUCH USE.**
Gemtech suppressors list whether a given model of suppressor is rated for fully-automatic fire in the specifications table(s) within each Safety & Instruction manual. These tables start on page 16 of the Rifle Suppressors manual.

YOUR SAFETY RESPONSIBILITIES CONTINUED

- **THE SUPPRESSOR CAN BECOME EXTREMELY HOT DURING USE.** The suppressor absorbs a great deal of heat from burning propellant gases. After use, the suppressor can become very hot – greater than 900° F (482° C) depending on rate of fire. The suppressor can become hot enough to cause serious burns to skin or to start a fire when contacting flammable materials or coming in proximity to flammable liquids/vapors. Always allow the suppressor to cool before handling with bare hands or allowing it near potentially flammable materials or flammable liquids/vapors. Suppressors become hot because they absorb energy from the muzzle blast on firing. A hot suppressor is not obvious but will cause severe burns on contact with skin and will cause property damage. Plan ahead and identify a safe place to rest your suppressed firearm after firing.
- **THE SUPPRESSOR MUST BE INSTALLED PROPERLY BEFORE USE.** The suppressor must be properly installed on the barrel of the firearm and the suppressor must be properly aligned with the bore before using the firearm. Make sure there is a proper fit between your firearm and suppressor before use. Firing through a suppressor that is not properly installed could result in a baffle strike which may destroy the suppressor and possibly cause injury or death.
- **SEE THE AMMUNITION SECTION OF THIS MANUAL (AND THE SPECIFIC SECTION FOR THE MODEL SUPPRESSOR THAT YOU ARE USING) FOR INFORMATION ABOUT WHAT AMMUNITION SHOULD BE USED WITH YOUR GEMTECH SUPPRESSOR INSTALLED.**
- **THIS MANUAL SHOWS COMPATIBLE CALIBERS / CHAMBERINGS AND MINIMUM BARREL LENGTH FOR EACH MODEL SUPPRESSOR (SEE MODEL SPECIFIC SECTION STARTING ON PAGE 16).** If a suppressor is used on a firearm that does not meet the criteria spelled out for that particular model, it could result in damage to the firearm and/or suppressor and personal injury.

YOUR SAFETY RESPONSIBILITIES CONTINUED

- **PRIOR TO SUCH USE, VERIFY THAT YOUR SUPPRESSOR CAN BE USED WET OR DRY. DIFFERENT MODELS HAVE VARYING REQUIREMENTS THAT ARE DETAILED ELSEWHERE IN THIS MANUAL.** This information is listed in the specific model details later in this manual. If specified for DRY use, never allow any foreign material or liquid to get inside the suppressor. Introducing or allowing any liquid, grease, or other foreign materials into the suppressor can lead to abnormal and excessive pressures inside the suppressor. See the recommended cleaning procedures for each specific model later in this manual.
- **KNOW, UNDERSTAND AND FOLLOW THE LAW.** Sound suppressors (sometimes referred to as silencers, cans, mufflers or moderators) are controlled under the National Firearms Act (NFA; 26 U.S.C. §5849 et seq.). Sound suppressors are NOT legal in every state. Storing an unlocked sound suppressor at home with a person who is not registered to possess the device may be construed as “constructive possession” by the BATFE (U.S. Bureau of Alcohol, Tobacco, Firearms and Explosives), which carries a hefty penalty by law – always keep your suppressor secured as you do with your firearms.
- **ALWAYS WEAR EYE AND HEARING PROTECTION THAT ARE SPECIFIED FOR USE WITH FIREARMS** every time you discharge your firearm. Make sure others in the vicinity of where you will be shooting do so as well. Suppressors reduce but do not eliminate the noise from a firearm discharge. When firing a suppressed firearm you and those nearby must use appropriate hearing protection.
- **BEWARE OF BARREL BORE AND SUPPRESSOR OBSTRUCTIONS.** Be sure the gun’s bore and the suppressor are clear of obstructions before shooting. Mud, water, snow or other objects may inadvertently lodge in the bore or suppressor. An obstruction in the barrel bore or suppressor is a dangerous condition and may damage your firearm and cause injury to yourself and others.
- **NEVER DISASSEMBLE YOUR SUPPRESSOR** beyond the procedure(s) outlined in this manual. Improper disassembly or reassembly of your suppressor may be dangerous and can lead to serious injury or death.

YOUR SAFETY RESPONSIBILITIES CONTINUED

- **NEVER ALLOW ANY ALTERATION OR REPLACEMENT OF PARTS IN YOUR GEMTECH SUPPRESSOR UNLESS PERFORMED BY A FACTORY TECHNICIAN** using genuine GEMTECH parts. If you do otherwise, improper functioning of your firearm may occur and serious injury or death and damage to property may result.



WARNING: SAFE USE OF A FIREARM AND SUPPRESSOR IS YOUR PERSONAL RESPONSIBILITY AND THE FAILURE TO FOLLOW ALL OF THESE BASIC SAFETY RULES MAY RESULT IN SEVERE PERSONAL INJURY OR DEATH TO YOU OR OTHERS AND DAMAGE TO PROPERTY. YOU ARE THE MOST IMPORTANT SAFETY DEVICE WHEN IT COMES TO THE USE OF YOUR FIREARM AND SUPPRESSOR AND GEMTECH WILL NOT BE RESPONSIBLE FOR ANY PERSONAL INJURY, DEATH OR PROPERTY DAMAGE THAT RESULTS FROM: (1) THE CRIMINAL OR NEGLIGENT USE OF THIS SUPPRESSOR; (2) A DISREGARD OF THESE SAFETY INSTRUCTIONS AND WARNINGS; (3) IMPROPER OR CARELESS HANDLING OF THIS SUPPRESSOR; (4) THE USE OF DAMAGED, CORRODED, NON-STANDARD, DEFECTIVE OR IMPROPER AMMUNITION; OR (5) IMPROPER OR NEGLIGENT MODIFICATIONS OR REPAIRS TO THE SUPPRESSOR.




WARNING: ALWAYS CONSULT WITH AND FOLLOW THE WARNINGS AND INSTRUCTIONS IN THE OWNER'S MANUAL FOR YOUR SPECIFIC FIREARM.


- **SUPPRESSOR HUNTING NOTICE.** If hunting with a suppressor is desired, consult the applicable state department or agency responsible for enforcement of hunting laws and regulations for further information. Not all states allow hunting with a suppressor, and some states limit the types of game that can be hunted with suppressors.


AMMUNITION

- Use your suppressor only with the caliber(s) for which it was designed. This information is listed in the specific model details for each suppressor later in this manual.
- In a place where it is safe to shoot, using safe firearm practices, start with a smooth, clean cardboard target at ten yards. With no suppressor mounted on your firearm, shoot at least five rounds of your chosen ammunition through the target where the bullet impacts on the target don't overlap. If the resulting bullet holes are circular (showing no sign of keyholing) then the bullets are likely stable enough to prevent baffle strikes. If the holes in the target are oblong (keyhole), these cartridges are unsuitable for use through your suppressor once it is mounted on your firearm. Once you determine that your bullets are stable without the suppressor, mount the suppressor on your firearm and conduct the same test again by shooting five rounds through the suppressor at the target. If the resulting bullet holes are round, this combination should be suitable. If there is any indication that the bullets are keyholing on the target, don't use this ammunition and conduct this test again with a different type of ammunition.

 **WARNING: ONLY FACTORY NEW AMMUNITION IN GOOD CONDITION THAT OPERATES AT PRESSURES CONSISTENT WITH RECOGNIZED COMMERCIAL STANDARDS SHOULD BE USED WITH A GEMTECH SUPPRESSOR INSTALLED.**

 **WARNING: NEVER FIRE "TRACER" AMMUNITION THROUGH YOUR SUPPRESSOR.**

 **WARNING: NEVER FIRE FRANGIBLE OR PRE-FRAGMENTED AMMUNITION OR AMMUNITION LOADED WITH BIRD SHOT THROUGH ANY GEMTECH SUPPRESSOR. DOING SO CAN SERIOUSLY DAMAGE THE SUPPRESSOR.**

 **WARNING: DISCHARGING FIREARMS IN POORLY VENTILATED AREAS, CLEANING FIREARMS, OR HANDLING AMMUNITION MAY RESULT IN EXPOSURE TO LEAD AND OTHER SUBSTANCES KNOWN TO CAUSE BIRTH DEFECTS, REPRODUCTIVE HARM, AND OTHER SERIOUS PHYSICAL INJURY. HAVE ADEQUATE VENTILATION AT ALL TIMES. WASH HANDS THOROUGHLY AFTER EXPOSURE.**

ATTACHING A SUPPRESSOR TO A FIREARM



WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.



WARNING: BEFORE FIRING A FIREARM WITH A SUPPRESSOR INSTALLED, ALWAYS CHECK TO ENSURE THAT THE SUPPRESSOR IS FULLY SCREWED ONTO THE MUZZLE HAND TIGHT AND IS ABUTTED TO A FLAT SHOULDER OF THE THREADS AT THE MUZZLE. THIS SHOULDER MUST BE PERPENDICULAR, AND THE MUZZLE THREADS MUST BE CONCENTRIC TO THE BORE. FAILURE TO FOLLOW THIS SAFETY WARNING COULD RESULT IN A BAFFLE STRIKE, LEADING TO SERIOUS INJURY OR DEATH TO THE SHOOTER OR OTHERS AND DAMAGE TO PROPERTY.

- Specific instructions for each GEMTECH model suppressor are included later in this manual (starting on page 16). Follow those instructions that pertain to the specific GEMTECH suppressor you are using.
- First, remove the thread protector from the muzzle of the **UNLOADED** firearm (if a thread protector is present). With appropriate tool(s) and fixture(s), remove any muzzle devices from your firearm, including any washers, shims or jam nuts.
- Clean and degrease the threads at the firearm's muzzle with solvent (such as rubbing alcohol). Degrease the threads inside the suppressor rear end cap with solvent. Allow any solvent that remains on the firearm or suppressor to evaporate before installing the suppressor on the firearm.
- Thread the suppressor onto the muzzle, taking care to prevent cross-threading. **HAND TIGHTEN ONLY. DO NOT OVER-TIGHTEN.**



WARNING: DO NOT USE ANY TYPE OF LOCK WASHER OR CRUSH WASHER WHEN INSTALLING YOUR SUPPRESSOR. LOCK WASHERS OR A CRUSH WASHER MAY CAUSE MISALIGNMENT AND RESULTING DAMAGE OR INJURY WHEN FIRING. MISALIGNMENT OF THE SUPPRESSOR WITH THE BORE WILL CAUSE THE BULLET TO CONTACT INTERNAL SUPPRESSOR PARTS; DAMAGING OR DESTROYING THEM.

ATTACHING A SUPPRESSOR CONTINUED

- During firing, the suppressor may unscrew from the muzzle threads, which can create misalignment. It is necessary for the user to periodically check that the suppressor remains screwed hand-tight to the firearm. Avoid burns by using a heat resistant glove when tightening the suppressor to the firearm or by allowing the suppressor to cool before touching it.

REMOVING SUPPRESSOR FROM A FIREARM



WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM.



WARNING THE SUPPRESSOR CAN BECOME DANGEROUSLY HOT WITH USAGE (> 900° F) WHICH COULD CAUSE SEVERE SKIN BURN ON CONTACT OR COULD IGNITE FLAMMABLE MATERIALS OR VAPORS IN THE ENVIRONMENT. IF THE SUPPRESSOR MUST BE REMOVED WHEN HOT, A GLOVE OR SUPPRESSOR SOCK MADE OF MATERIAL SPECIFICALLY DESIGNED TO PROTECT AGAINST EXTREME HEAT (E.G., NOMEX) MUST BE USED. ALSO, KEEP HOT SUPPRESSOR AWAY FROM FLAMMABLE LIQUIDS OR VAPORS.

- Confirm that the magazine has been removed and the firearm is completely unloaded. Being careful to avoid burns caused by hot parts, unscrew the suppressor from the barrel by hand. If necessary, use a wrench on the rear of suppressor (barrel thread adapter) to loosen suppressor. Care should be taken during and after firing in the handling of your suppressor. Heat resistant gloves will help, but even with gloves, care should be taken not to exceed the heat resistance capacity of the gloves.

CLEANING THE SUPPRESSOR



WARNING: ENSURE THAT YOUR FIREARM IS UNLOADED BEFORE BEGINNING ANY MAINTENANCE.



WARNING: ONCE USED, SUPPRESSORS MAY CONTAIN A GREAT DEAL OF LEAD RESIDUE. ALWAYS HAVE ADEQUATE VENTILATION. CLEANING FIREARMS IN POORLY VENTILATED AREAS, DISCHARGING FIREARMS, HANDLING AND CLEANING A SUPPRESSOR, OR HANDLING AMMUNITION MAY RESULT IN EXPOSURE TO LEAD AND OTHER SUBSTANCES KNOWN TO CAUSE BIRTH DEFECTS, REPRODUCTIVE HARM, AND OTHER SERIOUS PHYSICAL INJURY. WASH HANDS THOROUGHLY AFTER EXPOSURE.



WARNING ALWAYS READ AND FOLLOW THE INSTRUCTIONS AND WARNINGS ACCOMPANYING ANY CLEANER OR SOLVENT, AND REMEMBER THAT VIRTUALLY ALL SOLVENTS ARE HAZARDOUS AND POTENTIALLY TOXIC. ALWAYS USE BOTH SKIN AND EYE PROTECTION AND ENSURE ADEQUATE VENTILATION WHEN USING ORGANIC SOLVENTS. ALSO, AVOID OPEN FLAMES.

- See the specific instructions for cleaning your model of suppressor later in this manual (starting on page 16).
- Remove the suppressor from the **UNLOADED** firearm. DO NOT attempt to clean or disassemble the suppressor while it is installed on a firearm.
- Generally, there are two by-products that accumulate inside suppressors from firing through them: carbon and lead. Cleaning information is listed in the specific model details later in this manual - some models are not intended to be disassembled.
- When cleaning DO NOT use metal tools or objects to clean or scrape the tube or any components of the suppressor. Do not use sandpaper or emery cloth to clean any part of the suppressor. Damage to the suppressor will result.
- To clean the outer tube and core components, use a nylon or plastic bristle brush to remove deposits and clean any debris from the threads. Allow both the tube and core to dry before reassembling and using the suppressor.

CLEANING THE SUPPRESSOR CONTINUED

- Take precautions to avoid exposure to lead (e.g. latex gloves and face dust mask). Use cleaning utensils (nylon toothbrush, non-marring toothpick, cotton fabric) and non-corrosive solvents (e.g., Hoppes #9, CLP (Cleaner, Lubricant, Preservative) to clean the surfaces of the suppressor.
- Using solvent and a nylon brush, clean carbon deposits from the interior surfaces of the rear cap interface in the rear of the suppressor body.



WARNING: NEVER MANIPULATE, ADJUST OR CHANGE ANY OF THE INTERNAL COMPONENTS OF YOUR SUPPRESSOR UNLESS SPECIFICALLY DIRECTED TO DO SO IN THIS MANUAL. IMPROPER MANIPULATION OF ANY INTERNAL COMPONENT MAY AFFECT THE SAFETY AND RELIABILITY OF YOUR FIREARM AND MAY CAUSE SERIOUS INJURY OR DEATH.



WARNING: ANY MAINTENANCE OR SERVICE NOT SPECIFIED IN THIS MANUAL MUST BE PERFORMED BY A QUALIFIED FACTORY PERSONNEL USING GENUINE GEMTECH PARTS. IF YOU DO OTHERWISE, IMPROPER FUNCTIONING OF YOUR FIREARM MAY OCCUR AND SERIOUS INJURY OR DEATH MAY RESULT.

- No other disassembly of the suppressor is necessary. Ultrasonic cleaners are not effective with hydrocarbon-based solutions. Water based cleaners are not recommended.
- If any cleaner is introduced to the inside of the suppressor, completely blow dry with a source of compressed air so no residual moisture is left inside. Firing with liquid remaining in the suppressor can damage the suppressor due to abnormal and excessive internal pressures. Gemtech is not responsible or liable for any damage that results from the failure to observe all applicable product warnings and instructions.

POINT OF IMPACT SHIFTING ISSUES

- Any devices that are added to (or removed from) the muzzle of a firearm, including sound suppressors, flash hiders and thread adapters will likely cause a change in the bullet's point of impact on target. The degree of change in the point of impact will vary with the specific firearm and the device(s) added or removed. We recommend re-zeroing your firearm after any device is installed on (or removed from) the muzzle.

GEMTECH® WARRANTY STATEMENT

- Please visit gemtech.com/warrantystatement for warranty statement details.

GEMTECH® RETURNS FOR REPAIR

- Suppressors may be returned to Gemtech for inspection and/or repair service as necessary. Contact the Gemtech customer service department to obtain a Return Merchandise Authorization (RMA) in order to return your suppressor. See the Contact and Shipping section of this manual for details). Returned suppressors will be evaluated upon receipt to determine whether no-charge or fee service is appropriate. Gemtech is not responsible or liable for any damage that results from the failure to observe all applicable product warnings and instructions.
- For fee service, a quote will be provided to you, and services will commence upon receipt of payment. It is the responsibility of the customer to cover shipping costs and insurance to return the suppressor to Gemtech for inspection or repair. Gemtech will pay any reasonable shipping and insurance costs to return the unit to you.
- For any repair returns, to ensure proper legal procedures are completed, please download, fill out, and provide a copy of this document (**General Service Form**) with any packages sent to us - available at this web address:

https://gemtech.com/pub/media/wysiwyg/cms/downloads/General_Service_Form.pdf

GEMTECH[®] SUPPRESSOR REPAIR POLICY

- GEMTECH maintains complete repair facilities for all the suppressors it manufactures. Return authorization and shipping instructions must be obtained prior to return. Contact GEMTECH for this information. BATFE no longer requires transfer on a Form 5 to the manufacturer for repair. However, they do require a letter accompanying the suppressor detailing the repairs required. The General Service Form (see above) will fulfill the letter requirement. We will also require a photocopy of the front of the Owner's Form 3, 4, or 5.

NOTE: BATFE 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.

CONTACT AND SHIPPING INFORMATION

For Owners Within The United States

NOTE: A Return Merchandise Authorization (**RMA**) is the first step in the process of returning a product in order to receive repair service. Please contact GEMTECH'S Customer Service Dept. via e-mail: techstaff@gemtech.com or by phone at 833-350-9517 to obtain authorization to return your suppressor so we can process it quickly and efficiently. The RMA number that is supplied by GEMTECH must be displayed on the outside of the returned product's packaging.

The Return Merchandise Authorization (**RMA**) process allows GEMTECH an opportunity to try to diagnose and correct a customer's concerns with the product (such as ammunition problems) before it is returned. Accordingly, please contact us before returning your GEMTECH suppressor.

CONTACT CUSTOMER SERVICE

Phone: 833-350-9517

E-mail: techstaff@gemtech.com

CONTACT AND SHIPPING CONTINUED

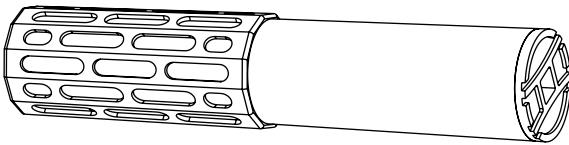
RETURNS - FOR SERVICE - ALL GEMTECH SUPPRESSORS

GEMTECH
2100 Roosevelt Ave
Springfield, MA 01104

- Call or e-mail the Customer Service Dept. for authorization and shipping instructions.
- Enclose a completed **General Service Form** (https://gemtech.com/pub/media/wysiwyg/cms/downloads/General_Service_Form.pdf) which includes your full name and address (no P.O. Boxes, please), daytime telephone number, e-mail address, the serial number of the suppressor, and details of the problem experienced (stating the brand and type of ammunition used when the problem occurred) or work desired.
- Enclose a copy of the first page of the approved BATFE Form 3, 4, or 5 (as applicable) that evidences registration of the suppressor in your name.
- Record the serial number before shipping, in case you wish to check on the repair status of your suppressor.
- Place the suppressor in its original case or in a similarly secure container and pack it securely.
- The package must NOT bear any markings which indicate the identity of the contents.
- It is most important that you comply with federal, state, and local laws and regulations. The following guidelines are meant to help, but you must seek assistance from the appropriate authorities if necessary.
- Repair work will begin upon receipt and examination of the suppressor. In the case of repairs, a quotation covering the cost of the work plus round trip transportation charges will be sent to you. Repairs will be scheduled upon receipt of payment.

GEMTECH® ONE™ SUPPRESSOR SPECIFICS:

FIGURE 2



GEMTECH® ONE™ SUPPRESSOR SPECIFICATIONS:

SKU	12118
UPC:	609224347856
Applicable Chamberings and Minimum Barrel Length	223 REM/5.56 NATO - 7.5" Min BBL 300 BLK - 7.5" Min BBL 308 Win/7.62x51mm NATO - 12" Min BBL 300 WIN MAG - 24" Min BBL
Ammunition Requirements:	See Pg 8 for Ammunition Requirements
Full-Auto Rated:	Yes, with 5.56 NATO ONLY*
Use Wet or Dry?	Dry Only
Overall Length:	7.8"
Diameter:	1.625"
Weight:	17.4 oz.
Tube Material:	6AL4V Titanium
Core Material:	Inconel 718 Blast Baffle, 6AL4V Titanium Baffles
Tube Finish:	High-Temp Matte Black Cerakote®
Core Finish:	N/A
Mount Type:	Quickmount™ or Threadmount
Suppressor Cover:	Sleeve Can Be Used
Supersonic Ammunition:	Ok
Disassemble for Cleaning?:	Clean Mount Only
Sound Tested:	139dB Colt® M4 5.56 - 11.5" 137dB Arsenal SAM7R 7.62x39 - 16" 138dB NEMO® XO 308 WIN - 16" 118dB Ruger® 10/22® - 18.5" 130dB Rem® 700 300 BLK - 20" 136dB Marlin® 336C 30-30 - 20"


*Fully-automatic is defined as 4-8 round bursts every 3-6 seconds.

**Suppressor life is significantly reduced on short-barreled rifles.

Sound reduction is dependent on barrel length and ammunition type.

GEMTECH® ONE™ SUPPRESSOR CONTINUED

INSTALLATION OF THE GEMTECH ONE™ SUPPRESSOR

 **WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.**

- Ensure your Quickmount™ is flush to the barrel.
- Place the suppressor over the Quickmount™, line up the two notches, compress internal spring, rotate 1/4 turn clockwise and release spring tension to lock it into position.

REMOVAL OF THE GEMTECH ONE™ SUPPRESSOR

- Compress internal spring, rotate 1/4 turn counter-clockwise and lift suppressor off the Quickmount™.

 **WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.**

GEMTECH ONE™ SUPPRESSOR SPECIFICATIONS

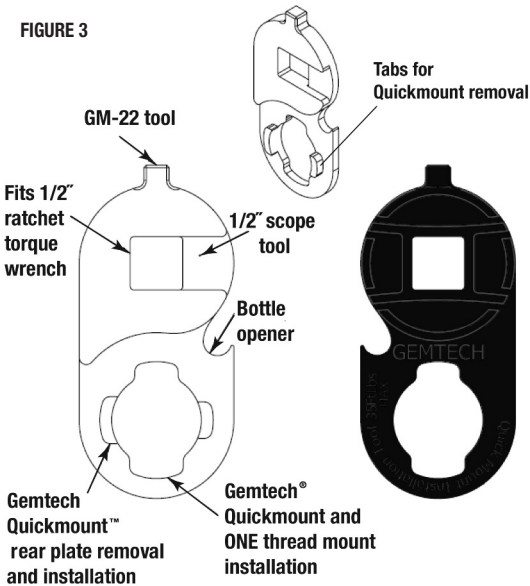
- Each caliber and ammunition type will have a different sound reduction based on the ammunition velocity, barrel length of the host firearm, and ambient temperature. A muzzle mounted sound suppressor does not control the velocity of the projectile. High velocity ammunition will be accompanied by the ballistic crack of the bullet in flight if the ammunition is supersonic.

ONE™ specifics section continued on the following page...

GEMTECH® ONE™ SUPPRESSOR CONTINUED

GEMTECH® ONE™ TOOL DIAGRAM AND USAGE

FIGURE 3



1. Using the ONE™ tool, unscrew the closer plate in the mount. Do not remove the pressure plate and spring.
2. Screw in the thread mount adapter and snug tight with the ONE™ tool. It may be necessary to clean the inside of the mount with a brush.
3. Removal and re-installation Quickmount™ closer plate is the reverse.

Be certain to keep the correct parts order as shown in the image to the right.



GEMTECH® ONE™ SUPPRESSOR CONTINUED

MAINTENANCE OF THE ONE™ SUPPRESSOR:

- Because of the high flame temperature, there is no need whatsoever to clean the inside of the ONE™ suppressor body. The only portion of the suppressor which should be cleaned is the mount. The inside of the mount (which receives the body of the QuickMount™) should be periodically scrubbed lightly with a brush dipped in CLP (Cleaner, Lubricant, Preservative).



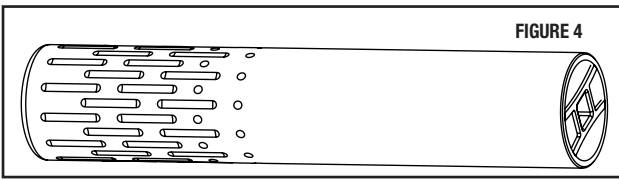
WARNING: DO NOT, UNDER ANY CIRCUMSTANCES, ATTEMPT TO PASS A CLEANING PATCH THROUGH THE ONE SUPPRESSOR.

- The ONE™ suppressor and threads must be blown dry with a source of dry compressed air so there is absolutely no residual moisture in the suppressor. Blowing should be done first from the rear and second from the front. Firing with any liquid remaining in the suppressor could result in abnormally high and erratic internal pressures, resulting in damage.



WARNING: FOLLOW THE AMMUNITION GUIDELINES PRESENTED ON PAGE 8 OF THIS MANUAL WITH YOUR GEMTECH SUPPRESSOR.

GEMTECH® TRACKER™ SUPPRESSOR SPECIFICS:



GEMTECH® TRACKER™ SUPPRESSOR SPECIFICATIONS:

SKU	12116
UPC:	609224347849
Applicable Chamberings and Minimum Barrel Length	223 REM/5.56 NATO - 16" Min BBL 300 Blackout - 7.5" Min BBL 308 Win/7.62x51mm NATO - 16" Min BBL 300 WIN MAG - 24" Min BBL 6.5 Creedmoor - 16" Min BBL 7mm REM MAG - 24" Min BBL 243 WIN - 18" Min BBL
Ammunition Requirements:	See Pg 8 for Ammunition Requirements
Full-Auto Rated:	No
Use Wet or Dry?	Dry Only
Overall Length:	8"
Diameter:	1.6"
Weight:	11.3 oz.
Tube Material:	7075 Aluminum
Core Material:	6AL4V Titanium Blast Baffle, 7075 Aluminum Baffles
Tube Finish:	Matte Black Type III Hard Coat Anodize
Core Finish:	N/A
Mount Type:	5/8-24 Direct Thread
Suppressor Cover:	Not Recommended During Use
Supersonic Ammunition:	Ok
Disassemble for Cleaning:	No
Sound Tested:	139dB S&W® M&P® Sport™ 223 16" 128dB DD DDM4V11 300 BLK 16" 136dB Remington® 700 7mm RM 24" 138dB Savage® Model 10 243 WIN 18" 138dB Weatherby Vanguard® 300WM 24"

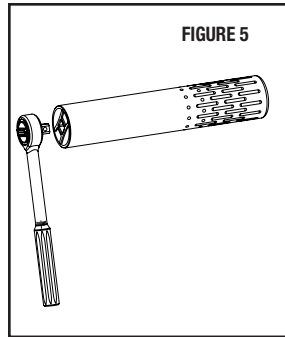
⚠ WARNING: *The TRACKER™ IS NOT full-auto rated. It is intended for hunting purposes only. You must allow suppressor to cool to ambient temperature after 10 rounds (all calibers).

GEMTECH® TRACKER™ SUPPRESSOR CONTINUED

INSTALLATION OF THE TRACKER™ SUPPRESSOR:

WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.

- Remove any thread protector or muzzle device. Thread the suppressor clockwise onto the muzzle. A 3/8" torque wrench can be fitted into the front end of the suppressor and allow it to be torqued to 15 ft/lbs (FIGURE 5).



REMOVAL OF THE TRACKER™ SUPPRESSOR:

- Unscrew the suppressor by hand. If necessary use a strap wrench on the outside of the suppressor to loosen or a 3/8" drive socket wrench in the end of the suppressor.

WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.

GEMTECH TRACKER™ SUPPRESSOR SPECIFICATIONS:

- Each caliber and ammunition type will have a different sound reduction based on the ammunition velocity, barrel length of the host firearm, and ambient temperature. A sound suppressor does not control the velocity of the projectile. High velocity ammunition will be accompanied by the ballistic crack of the bullet in flight if the ammunition is supersonic.

GEMTECH® TRACKER™ SUPPRESSOR CONTINUED

MAINTENANCE OF THE TRACKER™ SUPPRESSOR:

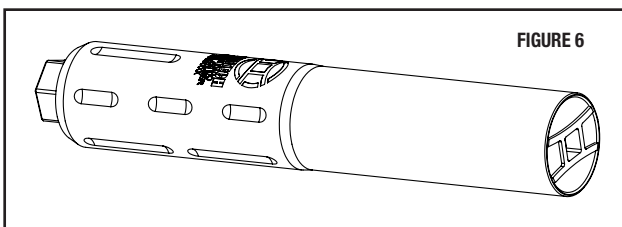
- Because of the high flame temperature, there is no need whatsoever to clean the inside of this suppressor. There is no need to disassemble the suppressor.



WARNING: DO NOT, UNDER ANY CIRCUMSTANCES, ATTEMPT TO PASS A CLEANING PATCH THROUGH THE TRACKER™ SUPPRESSOR.

- The TRACKER suppressor and threads must be blown dry with a source of dry compressed air so there is absolutely no residual moisture in the suppressor. Blowing should be done first from the rear and second from the front. Firing with any liquid remaining in the suppressor could result in abnormally high and erratic internal pressures, resulting in damage.

GEMTECH® DAGGER-II™ SUPPRESSOR SPECIFICS:



GEMTECH® DAGGER-II™ SUPPRESSOR SPECIFICATIONS:

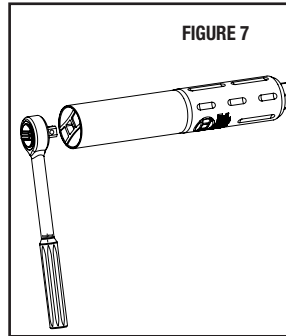
SKU	12120
UPC:	609224347627
Applicable Chamberings and Minimum Barrel Length	223 REM/5.56 NATO - 10.3" Min BBL 300 Blackout - 7.5" Min BBL 308 Win/7.62x51mm NATO - 12" Min BBL 300 WIN MAG - 18" Min BBL 6.8 SPC - 10.3" Min BBL
Ammunition Requirements:	See Pg 8 for Ammunition Requirements
Full-Auto Rated:	Yes with 5.56 NATO ONLY *
Use Wet or Dry?	Dry Only
Overall Length:	8.8"
Diameter:	1.5"
Weight:	15.2 oz.
Tube Material:	6AL4V Titanium
Core Material:	6AL4V Titanium
Tube Finish:	Matte Black High-Temp Cerakote
Core Finish:	N/A
Mount Type:	5/8-24 Direct Thread
Suppressor Cover:	Ok
Supersonic Ammunition:	Ok
Disassemble for Cleaning:	No
Sound Tested:	139dB NEMO® Omen Watchman 300WM 24" 135dB LMT® LM8MWS .308 16" 138dB LWRC International® Six8 UICW 6.8SPC 8.5"
<p>*Fully automatic fire is defined as 4-8 round bursts, every 3 to 6 seconds. **Suppressor life is significantly reduced on short-barreled rifles. Sound reduction is dependent on barrel length and ammunition type.</p>	

GEMTECH® DAGGER-II™ SUPPRESSOR CONT'D

WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.

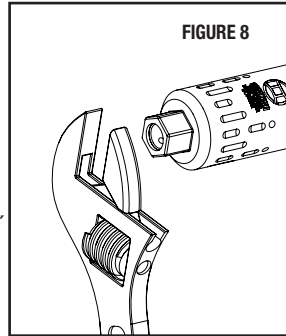
INSTALLATION OF THE DAGGER-II™ SUPPRESSOR:

- Remove any thread protector or muzzle device. Thread the suppressor clockwise onto the muzzle. A 3/8" torque wrench can be fitted into the front of the suppressor to allow torquing to 35 ft/lbs (FIGURE 7).
- A 7/8" wrench used on the rear portion of the suppressor will also work to tighten the suppressor in place (FIGURE 8).



REMOVAL OF THE DAGGER-II™ SUPPRESSOR:

- Unscrew the suppressor by hand. If necessary use a strap wrench on the outside of the suppressor to loosen - or a 3/8" wrench on the front.



WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.

- Each caliber and ammunition type will have a different sound reduction based on the ammunition velocity, barrel length of the host firearm, and ambient temperature. A muzzle suppressor does not control the velocity of the projectile. High velocity ammunition will be accompanied by the ballistic crack of the bullet in flight if the ammunition is supersonic.

GEMTECH® DAGGER-II™ SUPPRESSOR CONT'D

MAINTENANCE OF THE DAGGER-II™ SUPPRESSOR:

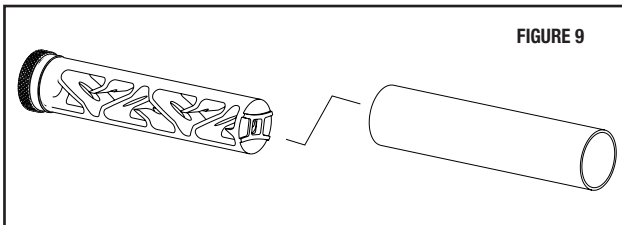
- Because of the high flame temperature, there is no need whatsoever to clean the inside of this suppressor. There is no need to disassemble the suppressor.



WARNING: DO NOT, UNDER ANY CIRCUMSTANCES, ATTEMPT TO PASS A CLEANING PATCH THROUGH THE DAGGER-II™ SUPPRESSOR.

- The suppressor and threads must be blown dry with a source of dry compressed air so there is absolutely no residual moisture in the suppressor. Blowing should be done first from the rear and second from the front. Firing with liquid remaining in the suppressor can result in abnormal and erratic internal pressures.

GEMTECH® GMT™-300 BLK SUPPRESSOR SPECIFICS:



GEMTECH® GMT™-300 BLK SUPPRESSOR SPECIFICATIONS:

SKU	12119
UPC:	609224345562
Applicable Chamberings and Minimum Barrel Length	300 BLK Subsonic - 7.5" Min BBL 300 BLK Supersonic - 7.5" Min BBL
Ammunition Requirements:	See Pg 8 for Ammunition Requirements
Full-Auto Rated:	Yes*
Use Wet or Dry?	Dry Only
Overall Length:	6.7"
Diameter:	1.5"
Weight:	13.2 oz..
Tube Material:	6AL4V Titanium
Core Material:	6AL4V Titanium
Tube Finish:	Matte Black High-Temp Cerakote
Core Finish:	N/A
Mount Type:	5/8-24 Direct Thread
Suppressor Cover:	Ok
Supersonic Ammunition:	Ok
Disassemble for Cleaning:	Yes
Sound Tested:	124dB S&W M&P®15 300 BLK 16" 129dB Daniel Defense® DDM4300S 10.5"

* Fully automatic fire is 4-8 round bursts every 3-6 seconds



WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.

GEMTECH® GMT™-300 BLK SUPPRESSOR CONT'D

INSTALLATION OF THE GMT™-300 BLK SUPPRESSOR:

- Remove any thread protector or muzzle device. Thread the suppressor clockwise onto the muzzle. A 3/8" torque wrench can be fitted into the front of the suppressor to allow torquing to 35 ft/lbs (FIG.10).

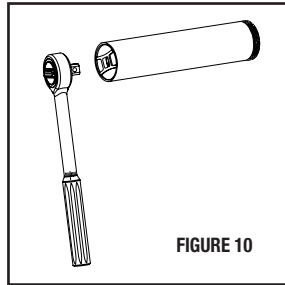


FIGURE 10

REMOVAL OF THE GMT™-300 BLK SUPPRESSOR:

- Unscrew the suppressor by hand. If necessary use a 3/8 inch socket wrench inserted into the muzzle end to loosen.

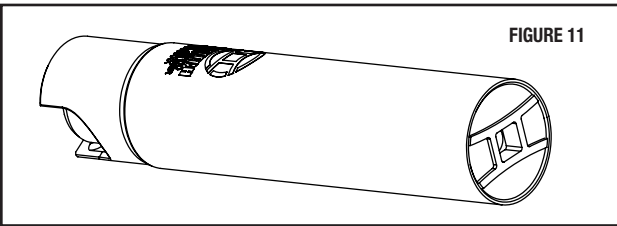


WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.

GEMTECH GMT™-300 BLK MAINTENANCE:

- DO NOT attempt to clean or disassemble the GMT-300 BLK while it is installed on a firearm. Remove the suppressor from the firearm.
- To disassemble the GMT™-300 suppressor, use a 3/8" drive ratchet wrench to loosen the G-CORE®. While holding the external tube in one hand, insert the ratchet wrench into the square cut out at the front end of the suppressor and turn the core. The ratchet wrench must be set to (TIGHTEN) clockwise to loosen and remove the G-CORE® from the tube. Failure to do so can cause you to overtighten the suppressor tube to the core and lead to G-CORE® failure.
- When cleaning DO NOT use metal tools or objects to clean or scrape the tube or the G-CORE®.
- Use a CLP (Cleaner, Lubricant, Preservative) to clean.
- To clean the tube and G-CORE® use a nylon or plastic brush to remove deposits and debris from the threads. Wipe away excess CLP (Cleaner, Lubricant, Preservative) until dry.
- Anti-seize lubricant can be applied to the G-CORE® threads if desired.
- Hand tighten the tube to the core.

GEMTECH® GMT-HALO™ SUPPRESSOR SPECIFICS:



GEMTECH® GMT-HALO™ SUPPRESSOR SPECIFICATIONS:

SKU	12111
UPC:	609224345906
Applicable Chamberings and Minimum Barrel Length	223 REM - 10.3" Min BBL 5.56 NATO - 10.3 Min BBL
Ammunition Requirements:	See Pg 8 for Ammunition Requirements
Full-Auto Rated:	Yes*
Use Wet or Dry?	Dry Only
Overall Length:	6.9"
Diameter:	1.5"
Weight:	12.8 oz..
Tube Material:	6AL4V Titanium
Core Material:	Inconel 718 Blast Baffle, 6AL4V Titanium Baffles
Tube Finish:	Matte Black High-Temp Cerakote
Core Finish:	N/A
Mount Type:	HALO Closer, Fits A1/A2 Flash Hider
Suppressor Cover:	Ok
Supersonic Ammunition:	Ok
Disassemble for Cleaning:	No
Sound Tested:	134dB Colt® M4 Carbine 5.56mm 14.5"
* Fully automatic fire is 4-8 round bursts every 3-6 seconds	

GEMTECH® GMT-HALO™ SUPPRESSOR CONT'D

FIREARM PREPARATION PRIOR TO FIRING

- In order to maintain proper suppressor alignment with the bore, it is absolutely essential that the flash hider be concentric with the bore. If it is not, alignment will be impossible. Baffle strikes from misalignment are the responsibility of the user. For there to be proper alignment, it is essential that the muzzle device backs against a surface that is 90° to the bore axis. Any washer that does not have perfectly parallel sides will tilt the muzzle device. Lock washers and crush washers cannot provide parallel sides and will always result in misalignment. For this reason, a shim washer set is included with the suppressor for proper clocking of the flash hider. If the muzzle device is already mounted with a peel washer, there is no need to remount. The crush washer can be easily identified by its black color and slight taper.



WARNING: NEVER USE A CRUSH WASHER FOR THE INSTALLATION OF THE GMT-HALO™ SUPPRESSOR - MISALIGNMENT MAY OCCUR.

THE LOCK WASHER OR CRUSH WASHER REMOVAL

- 1) Remove existing flash hider from the muzzle of the firearm using either the Combination Wrench (NSN 4933-00-070-9152) or a 3/4" open wrench. Remove and discard the existing crush or lock washer.
- 2) Clean the barrel threads of all dirt, grease, rust and other foreign matter using an approved solvent such as MEK (methyl ethyl ketone). Rust, if any, must be removed with a wire brush or steel wool.
- 3) The desired orientation of the A2 flash hider or dimensionally similar muzzle brakes is with the non-slotted portion down. Symmetric flash hidere (A1) do not need orienting and may be mounted without shims.
- 4) Check alignment utilizing a mounted GMT-HALO suppressor and an alignment gauge.

GEMTECH® GMT-HALO™ SUPPRESSOR CONT'D

MOUNTING THE GMT-HALO™ SUPPRESSOR

WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.

- Mounting and dismounting the suppressor on the firearm varies only minimally between the HALO variants. Refer to FIGURE 12.
- Remove the closer (FIGURE 12) from the suppressor.
- Angle the closer to slide over the flash hider (FIGURE 12).



GEMTECH® GMT-HALO™ SUPPRESSOR CONT'D

- For the GMT-HALO, position the closer into the rear groove just forward of the wrench flats (rear BFA (Blank Firing Adapter) groove).
- Slide the suppressor over the flash hider and screw into the closer until snug.

MAINTENANCE PROCEDURES FOR THE GMT-HALO™

1) The interior does not require cleaning. DO NOT make any attempt to clean the interior of the suppressor. High propellant flame temperatures minimize internal carbon build-up. Gemtech is not responsible or liable for any damage that results from the failure to observe all applicable product warnings and instructions.

TROUBLESHOOTING FOR THE GMT-HALO™

- This section contains basic troubleshooting information for locating and correcting the more common issues which may develop with the GMT-HALO. Each malfunction for an individual component, unit, or system is followed by a list of tests or inspections that will help to determine probable causes and corrective action to take. Perform the tests/inspections and corrective actions in the order listed. This manual cannot list all possible malfunctions that may occur, or all possible tests or inspections and corrective actions. If a malfunction is not listed (except when malfunction and cause are obvious), or is not corrected by listed corrective actions, the manufacturer should be contacted.

1) Flash hider loose, misaligned, or damaged: Reinstall (or install new flash compensator) with new shim washer set (A2). If using an A1 flash compensator, no shims or washers are necessary. Gauge alignment with alignment rod or laser gauge while suppressor is mounted.

2) Poor group size/accuracy: Inspect the front end cap. If there is evidence of damage from bullet impact or copper streaking, this is an indication of misalignment requiring re-mounting and regauging of the flash compensator.

3) Suppressor will not fit on flash hider: Clean flash hider and mating surface inside suppressor mount, lubricate with a CLP (Cleaner, Lubricant, Preservative). For cleaning the female surface inside the mount, a brush for cleaning 3/4" copper pipe fittings may be used. Be sure that the inside mounting surface is fully dried.

GEMTECH® GMT-HALO™ SUPPRESSOR CONT'D

4) Retaining collar will not screw suppressor tightly on flash hider: Clean threads with a CLP (Cleaner, Lubricant, Preservative). Be certain retaining collar encloses entire flash hider or is engaged in the rear blank firing attachment groove for the GMT-HALO suppressor.



WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.

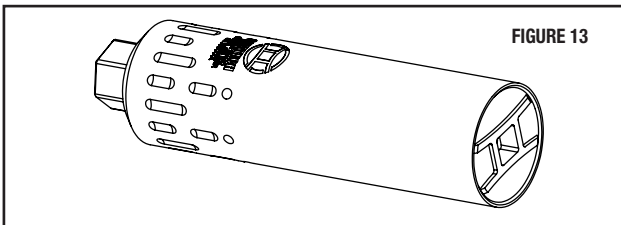
OPERATING TEMPERATURES FOR THE GMT-HALO™:

- During use, the GMT-HALO suppressor absorbs large quantities of heat from the burning propellant gases. This heat is dissipated by radiation, convection, and conduction. The heat buildup is particularly noticeable during fully automatic fire, where the temperature of the suppressor can easily exceed 900°F in a short period of time. The rate of heat buildup approximates 7.5°F per round. The rate of cooling in the atmosphere increases slightly as the temperature differential between the suppressor and the ambient air increases. The elevated temperatures can pose a hazard to personnel and materials that may contact the suppressor when hot. Although not recommended, the suppressor can be cooled rapidly by immersion in a nonflammable liquid, such as water followed by complete drying prior to use.

AMMUNITION AND DUTY CYCLE FOR THE GMT-HALO™

- Subsonic ammunition is not recommended for use with this suppressor. With rare exceptions, subsonic ammunition does not stabilize properly, resulting in excessive yaw and potential baffle contact. With loose military chambers, there may not be enough pressure to properly obturate the neck, resulting in projectiles stuck in the barrel.

GEMTECH® TREK-II™ SUPPRESSOR SPECIFICS:



GEMTECH® TREK-II™ SUPPRESSOR SPECIFICATIONS:

SKU	12110
UPC:	609728889609
Applicable Chamberings and Minimum Barrel Length	223 REM - 10.3" Min BBL 5.56 NATO - 10.3 Min BBL
Ammunition Requirements:	Full metal jacket ammunition - See Pg 8 for Ammunition Requirements
Full-Auto Rated:	Yes*
Use Wet or Dry?	Dry Only
Overall Length:	5.7"
Diameter:	1.5"
Weight:	16.2 oz.
Tube Material:	17-4 Stainless Steel
Core Material:	17-4 Stainless Steel
Tube Finish:	Matte Black High-Temp Cerakote
Core Finish:	N/A
Mount Type:	1/2-28 Direct Thread
Suppressor Cover:	Ok
Supersonic Ammunition:	Ok
Disassemble for Cleaning:	No
Sound Tested:	136 dB 5.56mm Daniel Defense® - 16"
* Fully automatic fire is 4-8 round bursts every 3-6 seconds	

GEMTECH® TREK-II™ SUPPRESSOR CONT'D



WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.

- The TREK-II sound suppressor fits a variety of 223 REM caliber centerfire rifles which utilize 1/2"-28 tpi muzzle threads, including the M16, AR15, AR-18 and similarly threaded rifles. Threads cut by anyone other than the original manufacturer or Gemtech should not be used. The TREK-II is intended for the 223/5.56 NATO cartridge and should not be used with higher powered 22 caliber cartridges, such as 22-250 Rem or 220 Swift.

HEAT BUILDUP OF THE TREK-II™ SUPPRESSOR

- Although designed to withstand limited fully automatic fire, heat buildup with fully automatic fire can reach levels that can cause severe burns and ignite flammable materials. Temperature increases average 7°F per round, and a 30 round magazine will raise the suppressor approximately 225°F above ambient air temperature. After 60-80 rounds full-auto, the suppressor and barrel should be allowed to cool to room temperature.

AMMUNITION FOR USE IN THE TREK-II™ SUPPRESSOR

- Because many of the partially jacketed bullets used in 223 REM/5.56 NATO ammunition can have jacket separation, we recommend that only full metal jacketed bullets be used with the suppressor.



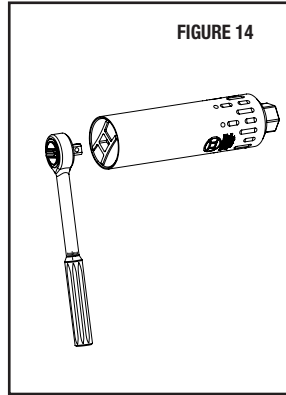
WARNING: JACKET SEPARATION WILL CAUSE THE BULLET TO TUMBLE WHILE IN THE SUPPRESSOR WHICH CAN SERIOUSLY DAMAGE THE INTERNAL BAFFLES AND LEAD TO SUPPRESSOR FAILURE. THE ULTRA-FRANGIBLE AMMUNITION IS MOST APT TO HAVE JACKET SEPARATION IN THE SUPPRESSOR. GEMTECH IS NOT RESPONSIBLE OR LIABLE FOR ANY DAMAGE THAT RESULTS FROM THE FAILURE TO OBSERVE ALL APPLICABLE PRODUCT WARNINGS AND INSTRUCTIONS.

INSTALLATION OF THE TREK-II™ SUPPRESSOR

- The flash hider must first be removed from the rifle, and the suppressor screwed on to the end of the barrel.

GEMTECH® TREK-II™ SUPPRESSOR CONT'D

- Because the suppressor aligns on the muzzle threads and against the shoulder at the rear of the muzzle threads, it is of utmost importance to be certain that the suppressor is at all times screwed tightly onto the muzzle of the firearm. We recommend the use of a thread locker such as LOCTITE® 242 “blue” on the threads when mounting the suppressor. Use a 3/8” drive torque wrench to tighten to 35 ft/lbs (FIGURE 14).



- Do not use any type lock-washer or the factory crush washer. Lockwashers or the crush washer will cause misalignment. It is possible that with firing, the suppressor will unscrew, which can create misalignment. Therefore it is imperative that the shooter periodically check to be certain that the suppressor remains screwed tightly onto the firearm.

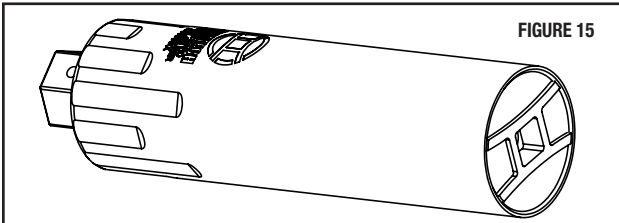


WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.

ABOUT CLEANING OF THE TREK-II™ SUPPRESSOR

- Because of the high flame temperatures, there is no need whatsoever to clean this suppressor when used on firearms chambered for the 5.56 NATO cartridge. There is no need to disassemble the suppressor.

GEMTECH® PATROLMAN™ SUPPRESSOR SPECIFICS:



GEMTECH® PATROLMAN™ SUPPRESSOR SPECIFICATIONS:

SKU	12109
UPC:	609224347610
Applicable Chamberings and Minimum Barrel Length	223 REM - 10.3" Min BBL 5.56 NATO - 10.3 Min BBL
Ammunition Requirements:	See Pg 8 for Ammunition Requirements
Full-Auto Rated:	Yes*
Use Wet or Dry?	Dry Only
Overall Length:	5.7"
Diameter:	1.5"
Weight:	12.3 oz.
Tube Material:	6AL4V Titanium
Core Material:	Inconel 718 Blast Baffle, 6AL4V Titanium Baffles
Tube Finish:	Matte Black High-Temp Cerakote
Core Finish:	N/A
Mount Type:	1/2-28 Direct Thread
Suppressor Cover:	Ok
Supersonic Ammunition:	Ok
Disassemble for Cleaning:	No
Sound Tested:	135dB PWS Mk118 .223 18" 138dB Colt® M4 Carbine 5.56 14.5"

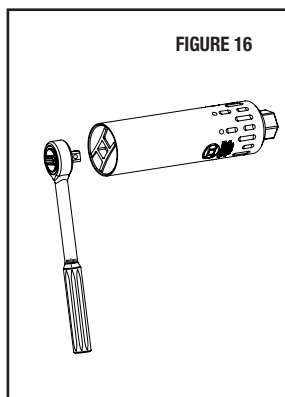
* Fully automatic fire is 4-8 round bursts every 3-6 seconds

GEMTECH® PATROLMAN™ SUPPRESSOR CONT'D

WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.

MOUNTING THE PATROLMAN™ SUPPRESSOR

- If present, remove the thread protector. Installation requires that the suppressor be screwed hand tight on to the threaded barrel. A 3/8" socket torque wrench (FIGURE 16) can be used to on the front of the suppressor to torque it to 35 ft/lbs. If desired, a drop of thread locker such as LOC-TITE® "blue" may be used.



- The threads are standard right-hand. Never use any type of washer, crush washer, or lock-washer when mounting the suppressor. Crush washers or lockwashers will cause misalignment and damage. During use, suppressors will become extremely hot. Do not touch while hot! Failure to comply may result in burns or melted clothing. To remove, unscrew the suppressor and replace the thread protector.

WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.

CLEANING THE PATROLMAN™ SUPPRESSOR

- We have found no need for cleaning the inside of the suppressor.
- All threads, mounting surfaces, and alignment surfaces should be inspected and remain clean. They may be cleaned with a nylon brush dipped in a CLP (Cleaner, Lubricant, Preservative). Unlike firearms, it is not necessary or desirable to clean centerfire rifle suppressors. It is acceptable to blow out particulate matter with dry high pressure compressed air.

WARNING: DO NOT, UNDER ANY CIRCUMSTANCES, ATTEMPT TO PASS A CLEANING PATCH THROUGH THE PATROLMAN™ SUPPRESSOR.

GEMTECH® SHIELD™ SUPPRESSOR SPECIFICS:

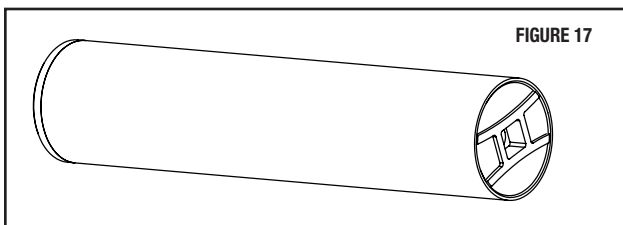


FIGURE 17

GEMTECH® SHIELD™ SUPPRESSOR SPECIFICATIONS:

SKU	12108
UPC:	609224347603
Applicable Chamberings and Minimum Barrel Length	223 REM - 10.3" Min BBL 5.56 NATO - 10.3 Min BBL
Ammunition Requirements:	See Pg 8 for Ammunition Requirements
Full-Auto Rated:	Yes*
Use Wet or Dry?	Dry Only
Overall Length:	7.0"
Diameter:	1.5"
Weight:	15 oz.
Tube Material:	6AL4V Titanium
Core Material:	Inconel 718 Blast Baffle, 6AL4V Titanium Baffles
Tube Finish:	Matte Black High-Temp Cerakote
Core Finish:	N/A
Mount Type:	Quickmount™
Suppressor Cover:	Ok
Supersonic Ammunition:	Ok
Disassemble for Cleaning:	Clean Mount ONLY
Sound Tested:	135dB PWS Mk118 .223 18" 138dB Colt® M4 Carbine 5.56 14.5"
* Fully automatic fire is 4-8 round bursts every 3-6 seconds	

GEMTECH® SHIELD™ SUPPRESSOR CONT'D



WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.

GENERAL INFORMATION FOR THE SHIELD™

- The model SHIELD sound suppressor is offered in Gemtech's patented Quickmount™ quick-detach mounting system. Quickmount™ flash hider and muzzle brake mounts are available in a wide variety of threads to fit a wide variety of firearms and muzzle threads.

1) Thorough de-greasing of the male threads on the barrel and the female threads in the Quickmount™ is essential.

2) If timing is required, fit using only a shim washer set (available at gemtech.com) or a peel washer. Never use a crush washer or lockwasher as misalignment and resulting baffle damage will occur.

MOUNTING OF THE SHIELD™ SUPPRESSOR

- Position the suppressor over the Quickmount™ and rotate until the lugs enter the rear portion of the suppressor. Compress the internal spring and rotate the suppressor body ¼ turn clockwise (as viewed from the front) until the lugs engage recesses in the rear of the suppressor locking it in place.

REMOVAL OF THE SHIELD™ SUPPRESSOR



WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.

- Removal is the reverse of installation: press the suppressor rearward compressing the spring, rotate ¼ turn counter-clockwise, and remove.

GEMTECH® SHIELD™ SUPPRESSOR CONT'D

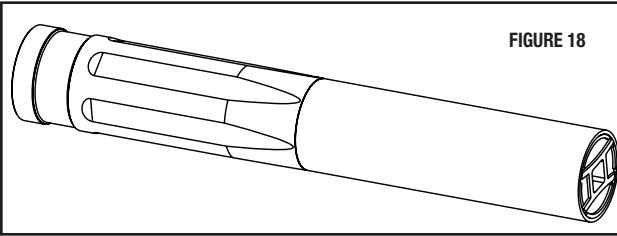
CLEANING THE SHIELD™ SUPPRESSOR:

- There is no concern about corrosion from byproducts of propellant gases. We have found no need for cleaning the inside of the suppressor. We strongly advise against such efforts or immersion in solvents. Solvents will not drain completely and residual liquid may cause unexpected pressure peaks which can damage the unit. The high flame temperature burns out the majority of any remaining powder residues. All mounting/alignment surfaces should be inspected and remain clean. They may be cleaned with a brass brush or 3/4 inch copper pipe brush dipped in a CLP (Cleaner, Lubricant, Preservative). Unlike firearms, it is neither necessary nor desirable to clean centerfire rifle suppressors. It is acceptable to blow out particulate matter with high pressure compressed air.



WARNING: DO NOT, UNDER ANY CIRCUMSTANCES, ATTEMPT TO PASS A CLEANING PATCH THROUGH THE SUPPRESSOR.

GEMTECH® ARROW™ SUPPRESSOR SPECIFICS:




GEMTECH® ARROW™ SUPPRESSOR SPECIFICATIONS:

SKU	12122
UPC:	609224347863
Applicable Chamberings and Minimum Barrel Length	338 LUPUA MAG - 22" Min BBL 223 REM/5.56 NATO - 10.3" Min BBL 308 Win/7.62x51mm NATO - 12" Min BBL 300 WIN MAG - 18" Min BBL
Ammunition Requirements:	See Pg 8 for Ammunition Requirements
Full-Auto Rated:	No
Use Wet or Dry?	Dry Only
Overall Length:	12.1"
Diameter:	1.875"
Weight:	27.5 oz.
Tube Material:	Titanium and 7075 Aluminum
Core Material:	6AL4V Titanium Blast Baffle, Aluminum 7075 Baffles
Tube Finish:	Matte Black High-Temp Cerakote
Core Finish:	N/A
Mount Type:	3-Lug Quickmount™
Suppressor Cover:	Ok
Supersonic Ammunition:	Ok
Disassemble for Cleaning:	No
SOUND TESTED	135dB NEMO® Omen Wtchmn 300WM 24" 136dB PWS MK3 338LM 26"

⚠ WARNING: If 20 rounds (any caliber) are fired rapidly through the ARROW suppressor it is recommended that the suppressor be allowed to cool to ambient temperature before continuing to fire. Failure to comply may result in damage to or destruction of the suppressor.

GEMTECH® ARROW™ SUPPRESSOR CONT'D

 **WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR FROM A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.**

INSTALLATION OF THE ARROW™ SUPPRESSOR:

- Ensure your 3-LUG Quickmount™ is flush to the barrel.

Place the silencer over the 3-LUG Quickmount™, line up the large lug, compress internal spring, rotate clockwise until it locks into position.


REMOVAL OF THE ARROW™ SUPPRESSOR:

 **WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN YOU TIGHTEN OR REMOVE A SUPPRESSOR WHILE IT IS HOT.**

- Compress internal spring, rotate counter-clockwise and lift suppressor off the 3-Lug Quickmount™/ flash hider.

MAINTENANCE OF THE ARROW™ SUPPRESSOR:

- Because of the high flame temperature, there is no need whatsoever to clean the inside of this suppressor. There is no need to attempt to disassemble the suppressor.

 **WARNING: DO NOT, UNDER ANY CIRCUMSTANCES, ATTEMPT TO PASS A CLEANING PATCH THROUGH THE ARROW™ SUPPRESSOR.**

- The only portion of the suppressor which should be cleaned is the mount. The inside of the mount (which receives the body of the flash hider) should be periodically scrubbed lightly with a bronze brush dipped in CLP (Cleaner, Lubricant, Preservative).
- The ARROW suppressor and threads must be blown dry with a source of dry compressed air so there is absolutely no residual moisture in the suppressor. Blowing dry compressed air should be done first from the rear and second from the front. Firing with any liquid remaining in the suppressor could result in abnormally high and erratic internal pressures, resulting in damage.

GEMTECH[®] PATENT INFORMATION

- This product may be covered by one or more patents. Please visit gemtech.com/patents for virtual patent information.

MY GEMTECH® SUPPRESSOR MAINTENANCE LOG

MY SERIAL NUMBER: _____

PURCHASE DATE: _____

MM/DD/YY	ROUND COUNT
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Springfield, MA 01104

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REV:RIFLE_SUPPRESSORS-061519

