



GEMTECH[®]
SUPPRESSORS

SAFETY & INSTRUCTION MANUAL FOR:

GM[®]-22 RIMFIRE SUPPRESSOR



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: 1.833.350.9517

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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 DOWNLOADABLE COPIES OF SUPPRESSOR SAFETY & INSTRUCTION MANUALS
(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 (SUCH AS A CERTIFIED FIREARMS INSTRUCTOR).

**PHONE: 1.833.350.9517
E-MAIL: TECHSTAFF@GEMTECH.COM**

**VISIT WWW.GEMTECH.COM
FOR ACCESSORIES, ADAPTERS, AND AMMUNITION
MANUFACTURED OR SOLD BY:**

**GEMTECH
2100 ROOSEVELT AVE
SPRINGFIELD, MA 01104
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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. This table is on page 18 of the GM[®]-22 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 THE MODEL SPECIFIC SECTION ON PAGE 18).** 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.** Firearm sound suppressors (sometimes referred to as silencers, cans, mufflers or moderators) are controlled under the National Firearms Act (NFA; 26 U.S.C. §5801 et seq.). Firearm sound suppressors are NOT legal in every state. Failure to follow all applicable Federal and State laws concerning the possession, use, storage, transport, and transfer of firearm sound suppressors can lead to severe criminal penalties. Always keep your firearm sound suppressor safely secured when not in use.
- **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.

YOUR SAFETY RESPONSIBILITIES CONTINUED

- **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.
- **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 NON-STANDARD, DEFECTIVE OR IMPROPER AMMUNITION; (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



WARNING: ONLY FACTORY NEW COMMERCIAL AMMUNITION OPERATING AT PRESSURES CONSISTENT WITH RECOGNIZED STANDARDS SHOULD BE USED WITH YOUR GEMTECH SUPPRESSOR INSTALLED.



WARNING: NEVER FIRE “TRACER” AMMUNITION THROUGH YOUR SUPPRESSOR.



WARNING: NEVER FIRE FRANGIBLE OR PRE-FRAGMENTED AMMUNITION THROUGH ANY SUPPRESSOR. SOME FRANGIBLE JACKETED BULLETS HAVE A TENDENCY TO PRODUCE JACKET SEPARATION, WHICH WILL CAUSE THE BULLET TO TUMBLE WHILE IN THE SUPPRESSOR, WHICH CAN SERIOUSLY DAMAGE THE INTERNAL BAFFLES AND LEAD TO SUPPRESSOR FAILURE.



WARNING: DO NOT USE 60 GR. SUBSONIC 22LR AMMUNITION. GEMTECH HAS FOUND THAT THE AMMUNITION MAY FAIL TO STABILIZE IN MOST BARREL TWISTS READILY AVAILABLE, AND AS A RESULT THE BULLET CAN YAW ON EXIT FROM THE RIFLING AND MAY SERIOUSLY DAMAGE THE INTERNAL COMPONENTS OF THE SUPPRESSOR. USE OF THIS AMMUNITION IS AT THE USER’S RISK AND WILL VOID THE PRODUCT WARRANTY.



WARNING: DO NOT USE CENTERFIRE AMMUNITION WITH THE GM[®]-22 SUPPRESSOR.



WARNING: NEVER USE 22 SHOTSHELL AMMUNITION WITH THE GM[®]-22 SUPPRESSOR.

- Use your suppressor only with the calibers for which it was designed. This information is listed in the specific model details later in this manual.
- The GM[®]-22 can handle several different rimfire calibers: 22 LR (subsonic, standard velocity or high velocity), 22 WMR, 22 Short, 17 HMR, 17 HM2.
- For GEMTECH SUBSONIC 22LR AMMUNITION. Visit: gemtech.com/store/ammunition.html



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 TO/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 in this manual (starting on page 18). Follow those instructions as they 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 will 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 TO/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 18).
- 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 suppressor internal components use a nylon brush and non-marring cleaning pics to remove deposits and debris. Metal hand tools like a brass brush and metal cleaning pick can be used as a last resort to remove stubborn lead and carbon deposits on internal components only, which are not removed by non-marring tools. Take care when using metal tools as aggressive use will damage and decrease the life of suppressor components. Adherence to the cleaning instructions and intervals in this manual should make the use of metal hand tools rare and unnecessary for routine cleaning.

CLEANING THE SUPPRESSOR CONTINUED

- 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.
- 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 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 hidiers 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® PATENT INFORMATION

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

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, a letter accompanying the suppressor detailing the repairs is required. The **General Service Form** (found at the link identified below) will fulfill the letter requirement.

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

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: 1.833.350.9517

E-mail: techstaff@gemtech.com

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.

CONTACT AND SHIPPING CONTINUED

- 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.

<https://www.atf.gov/firearms/firearms-forms>

- 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® GM®-22 SUPPRESSOR SPECIFICS:

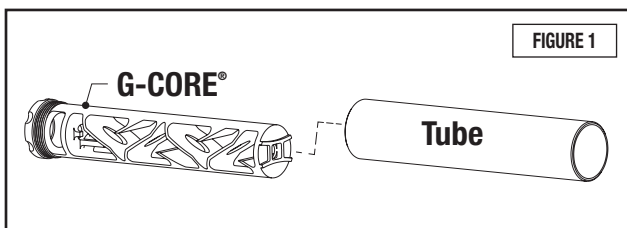


FIGURE 1

GEMTECH® GM®-22 SUPPRESSOR SPECIFICATIONS:

SKU	12127
UPC:	609728889661
Applicable Chamberings	22 LR (WET OR DRY) 22 WMR (DRY ONLY) 17 HMR (DRY ONLY) 17 HM2 (DRY ONLY)
Ammunition Requirements:	See Pg 8 For Ammunition Requirements
Full-Auto Rated:	Yes for 22 LR ONLY*
Use Wet or Dry?	See chambering list above
Overall Length:	5.0"
Diameter:	1"
Weight:	2.7 oz.
Tube Material:	7075 Aluminum
Tube Finish:	Matte Black High-Temp Cerakote®
Core Material:	7075 Aluminum
Core Finish:	Matte Black High-Temp Cerakote®
Mount Type:	1/2-28 Direct Thread
Supersonic Ammunition:	OK
Disassemble for Cleaning:	Yes
SOUND TESTED HANDGUN	123dB Ruger® 22/45®
SOUND TESTED RIFLE	117dB Ruger® American® Rimfire

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

22/45®, Ruger® and American® Rimfire are registered trademarks of Sturm, Ruger & Co., Inc.

INSTALLATION OF THE GM®-22 SUPPRESSOR



WARNING: NEVER ATTACH, TIGHTEN OR REMOVE A SUPPRESSOR TO/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. **HAND TIGHTEN ONLY. DO NOT OVER TIGHTEN.**
- Remove the suppressor from the unloaded firearm. **DO NOT** clean or disassemble the GM®-22 while it is installed on a firearm.

MAINTENANCE OF THE GM®-22 SUPPRESSOR:



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

- For optimal performance and ease of disassembly, perform the maintenance process listed below every 250 rounds.



WARNING: USE PROPER SKIN PROTECTION TO PREVENT BURNS WHEN TIGHTENING OR REMOVING A SUPPRESSOR WHILE IT IS HOT.

REMOVAL OF THE GEMTECH® GM®-22 SUPPRESSOR FROM AN UNLOADED FIREARM

- Unscrew the suppressor by hand. If necessary use a 1/4 inch socket wrench inserted into the muzzle to loosen.
- To disassemble the GM®-22 suppressor, remove the G-CORE™ from the outer tube. Hold onto the rear section of the suppressor and unscrew the outer tube counter-clockwise from the inner G-CORE™. If necessary, use a 1/4" socket 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.
- Use a CLP (Cleaner, Lubricant, Preservative) to clean.

GEMTECH® GM®-22 SUPPRESSOR CONTINUED

- When cleaning suppressor internal baffle components use a nylon brush, non-marring cleaning pics, and CLP to remove deposits and debris. Metal hand tools like a brass brush and metal cleaning pick can be used as a last resort to remove stubborn lead and carbon deposits on internal components only, which are not removed by non-marring tools. Take care when using metal tools as aggressive use will damage and decrease the life of suppressor components. Adherence to the cleaning instructions and intervals in this manual should make the use of metal hand tools rare and unnecessary for routine cleaning.
- To clean the inside of the suppressor tube soak a nylon bore brush or mop in CLP and run it through the tube to remove debris. If lead/carbon build up persists, the core can be used to break off the buildup. Coat the inside of the tube with CLP, let it sit for a few minutes then run the tube on and off of the core 15-20 times until it feels more like the intended slip fit.
- Lightly lubricate prior to reassembly. Hand tighten only.
- Gemtech recommends storing the suppressor dry.

MAINTENANCE LOG

MY SERIAL NUMBER: _____

PURCHASE DATE: _____

MM/DD/YY	ROUND COUNT
_____	_____
_____	_____
_____	_____
_____	_____



301050020032

GEMTECH
2100 Roosevelt Ave
Springfield, MA 01104

p/n 3010500

REV:GM22_SUPPRESSOR-020120