



GEMTECH[®]
SUPPRESSORS

Safety & Instruction Manual

MIST-22[®] Suppressed Barrel



and the MIST-22[®]TD Suppressed Barrel



WARNING: READ THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL BEFORE USING THIS PRODUCT. ALSO READ AND UNDERSTAND THE SAFETY AND INSTRUCTION MANUAL FOR YOUR SPECIFIC FIREARM BEFORE USING YOUR FIREARM WITH A SUPPRESSED BARREL ATTACHED. FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS CAN RESULT IN SERIOUS INJURY OR DEATH TO YOU OR OTHERS AND DAMAGE TO PROPERTY.

GEMTECH

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WARNING:



**THIS SAFETY & INSTRUCTION
MANUAL SHOULD ALWAYS
ACCOMPANY YOUR SUPPRESSED BARREL
AND IT SHOULD BE TRANSFERRED
WITH THE SUPPRESSED BARREL 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 PDF Safety & Instruction Manuals at**
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).**

**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 TIGHTEN OR ADJUST A SUPPRESSED BARREL OR ITS COMPONENTS WHILE IT IS MOUNTED ON 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 secure or adjust a suppressed barrel.

- **ALWAYS FOLLOW THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL.**

Use, installation, adjustment or removal of a suppressed barrel must be accomplished in accordance with the information contained in this manual.

- **FIREARMS WITH SUPPRESSED BARRELS 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 17 of this manual.

YOUR SAFETY RESPONSIBILITIES CONTINUED

- **THE SUPPRESSED GUN BARREL 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 materials/vapors. Always allow the suppressor to cool before handling with bare hands or allowing it near potentially flammable materials or flammable materials/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 SUPPRESSED BARREL MUST BE INSTALLED PROPERLY BEFORE USE.** The suppressed barrel or upper receiver must be properly installed before using the firearm. Firing a suppressed barrel or upper receiver 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 FOR EACH MODEL SUPPRESSOR (SEE MODEL SPECIFIC SECTION STARTING ON PAGE 17).** If a suppressed barrel 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

- **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 OBSTRUCTIONS.** Be sure the gun’s bore and the bore of 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/or suppressor upon firing and cause injury to yourself and others.

- **NEVER DISASSEMBLE YOUR SUPPRESSED BARREL** beyond the procedure(s) detailed in this manual. Improper disassembly or reassembly of your suppressed barrel may be dangerous and can lead to serious injury or death.

- **NEVER ALLOW ANY ALTERATION OR REPLACEMENT OF PARTS IN YOUR GEMTECH SUPPRESSED BARREL 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.

YOUR SAFETY RESPONSIBILITIES CONTINUED



WARNING: SAFE USE OF A FIREARM WITH A SUPPRESSED BARREL 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, OR; (5) IMPROPER OR NEGLIGENT MODIFICATIONS OR REPAIRS TO THE SUPPRESSED BARREL.



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 calibers for which it was designed. This information is listed in the specific model details later in this manual.



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 THROUGH ANY SUPPRESSOR. SOME FRANGIBLE JACKETED BULLETS HAVE A TENDENCY TO PRODUCE JACKET SEPARATION, WHICH MAY CAUSE THE BULLET OR BULLET FRAGMENTS 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 IN GEMTECH MIST-22® OR MIST-22®TD SUPPRESSED BARRELS. GEMTECH HAS FOUND THAT THE AMMUNITION MAY FAIL TO STABILIZE IN MOST BARREL TWISTS READILY AVAILABLE, AND AS A RESULT THE AMMUNITION CAN YAW ON EXIT FROM THE RIFLING AND MAY SERIOUSLY DAMAGE THE INTERNAL COMPONENTS OF THE SUPPRESSOR.



WARNING: NEVER USE 22 SHOTSHELL AMMUNITION IN THE MIST-22® OR MIST-22®TD SUPPRESSED BARRELS.



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 SUPPRESSED BARREL



WARNING: NEVER ATTEMPT TO ADJUST OR CLEAN A SUPPRESSED BARREL ON A LOADED FIREARM. FIRST REMOVE THE MAGAZINE FROM THE FIREARM. SECOND, VISUALLY AND MANUALLY CHECK AND CLEAR THE CHAMBER AND ACTION OF AMMUNITION.

- Specific installation instructions for each GEMTECH model suppressor are included in this manual (starting on page 17). See those instructions that pertain to the suppressor or suppressed barrel that you are using.

REMOVING SUPPRESSED BARREL



WARNING: THE SUPPRESSED BARREL 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 SUPPRESSED BARREL MUST BE HANDLED 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 SUPPRESSED BARREL AWAY FROM FLAMMABLE MATERIALS OR VAPORS.

- Confirm that the magazine has been removed and the firearm is completely unloaded. See the specific removal instructions for each model of Gemtech suppressor later in this manual.

CLEANING SUPPRESSED BARREL



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

- Before using any MIST-22® or MIST-22® TD integrally suppressed barrel for the first time, it should be cleaned.

CLEANING A SUPPRESSED BARREL CONT'D



WARNING: ONCE USED, A SUPPRESSED BARREL 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. AVOID OPEN FLAMES OR APPLYING SOLVENTS TO HOT METAL COMPONENTS DUE TO THE RISK OF FIRE.



WARNING: WEAR SAFETY GLASSES EVERY TIME YOU ASSEMBLE OR DISASSEMBLE YOUR FIREARM AND ATTEMPT CLEANING OR MAINTENANCE.

- See the instructions for cleaning your specific model of GEMTECH suppressor in this manual (starting on page 17).
- DO NOT attempt to clean, disassemble or adjust the suppressed barrel while it is installed on a loaded 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 (starting on page 17).
- 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 only as a last resort to remove stubborn lead and carbon deposits on internal components that are not removed by non-marring tools. Take care when using metal tools as their use can damage suppressor components and decrease their useful service life. 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 A SUPPRESSED BARREL CONT'D

- Purchase cleaning supplies from your firearm dealer that are specifically designated for your type and caliber of firearm. Many suppliers offer these in kit form for your convenience.
- Follow the instructions provided with your cleaning supplies.



WARNING: NEVER MANIPULATE, ADJUST OR CHANGE ANY OF THE INTERNAL COMPONENTS OF YOUR SUPPRESSED BARREL 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.

- 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.
- 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.

CLEANING A SUPPRESSED BARREL CONT'D

CAUTION: Never disassemble your firearm or suppressor beyond the instructions in this manual.

NOTE: A basic firearm cleaning kit should include: a brass bore brush and a cleaning jag of appropriate size for the bore being cleaned, high-quality gun cleaning solvent and gun oil/lubricant, cotton cleaning patches and a cleaning rod that is long enough to push the brush and jag completely through the barrel.

- Remove excessive firing residue from the bore and chamber using a properly fitted brass brush dipped in gun cleaning solvent. Finish the bore cleaning process by running a dry cotton cloth patch through the bore and chamber to remove residue and solvent.



WARNING: MAKE CERTAIN THAT NO PATCH MATERIAL REMAINS IN THE BARREL OR SUPPRESSOR AFTER CLEANING. A LOST PATCH COULD RESULT IN A BORE OBSTRUCTION, LEADING TO SUPPRESSOR OR FIREARM DAMAGE AND INJURY.

- Clean the exterior of the firearm and suppressor using a non-abrasive cleaning cloth.
- After cleaning, lightly coat the metal parts, internal and external with a high quality firearm oil.
- Whenever your firearm has been exposed to sand, dust, extreme humidity, water or other adverse conditions, it must be cleaned and lubricated.

CAUTION: Always follow the instructions provided with your firearm cleaner and firearm lubricant.

CAUTION: Some cleaners can cause damage to your firearm. You should avoid prolonged solvent immersion and prolonged ultrasonic cleaning of your firearm. Choice of solvent should be restricted to those products specifically developed for firearms maintenance. Damage to a firearm's finish may occur if these cautions are ignored. Ammoniated solvents or other strong alkaline solvents, should not be used on any Gemtech suppressor. Cleaning is essential to ensure the proper functioning of your firearm.

CLEANING A SUPPRESSED BARREL CONT'D

- Your firearm is a precision instrument. To ensure reliable function it is necessary to follow a routine maintenance procedure. After firing your firearm, be sure to unload it.
- Remove any firearm cleaning solution, oil and fingerprints from the outside surfaces of the firearm. (Finger moisture, if left, could start a corrosion process).
- If your firearm will be used in a cold climate, be sure to use an oil of an appropriate weight so that it will not congeal in cold temperatures, causing the interaction of important parts to be slowed or halted.

MAINTENANCE BEFORE STORAGE

- When storing, do not encase your firearm in anything that will attract or hold moisture, for example, leather or heavy cloth. Also, do not store firearms with a plug inserted in the barrel for this can be a contributing factor to moisture accumulation. If your firearm is to be stored for an extended period, the bore, chamber and internal surfaces should be oiled with a high-quality lubricating oil or preservative intended for firearms.

GEMTECH® WARRANTY STATEMENT

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

GEMTECH® PATENT INFORMATION

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

GEMTECH® RETURNS FOR REPAIR

- Suppressed barrels 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(s), 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® REPAIR POLICY

- GEMTECH maintains complete repair facilities for all the suppressed barrels that it sells.

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 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 & 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 1.833.350.9517 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 shipping charges will be sent to you. Repairs will be scheduled upon receipt of payment.

GEMTECH® MIST-22® SUPPRESSED BARREL:



FIGURE 1

GEMTECH® MIST-22® SUPPRESSED BARREL SPECIFICATIONS:

| | |
|----------------------------------|---|
| SKU: | 12128 |
| UPC: | 609728889692 |
| Chambering: | 22 Long Rifle - subsonic, standard velocity or high velocity* |
| Full-Auto Rated? | No |
| Use Wet or Dry? | DRY ONLY |
| Barrel Length: | 17.0" - Barrel w/Integrated Suppressor |
| Diameter: | .920" |
| Weight: | 21.1 Oz. |
| Tube Material: | 6061 Aluminum |
| Tube Finish: | Matte Black Anodize |
| Core Material: | 17-4 PH Stainless Steel |
| Core Finish: | Black Oxide |
| Barrel Material: | 4140 Steel - 1:16" twist rate |
| Barrel Finish: | QPQ |
| Mount Type: | Fits Ruger® 10/22® or T/CR22® - Requires bull barrel style stock |
| Supersonic Ammunition? | OK |
| Disassemble for Cleaning: | Yes |
| Sound Tested: | 112dB Ruger® 10/22® - Actual sound measured with Gemtech® 42 gr subsonic ammunition |

*Maximum sound suppression will be obtained using subsonic ammunition

RUGER® and 10/22® are registered trademarks of Sturm, Ruger & Co., Inc.

MIST-22® SUPPRESSED BARREL CONT'D

AMMUNITION FOR USE WITH THE MIST-22®

• Each ammunition type will have a different sound reduction based on the ammunition velocity and ambient temperature. A 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. Maximum suppression will be obtained using subsonic ammunition. WE ENCOURAGE THE USE OF GEMTECH SUBSONIC 22LR AMMUNITION. Visit: gemtech.com for details.



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 AMMUNITION CAN YAW ON EXIT FROM THE RIFLING AND MAY SERIOUSLY DAMAGE THE INTERNAL COMPONENTS OF THE SUPPRESSOR.

WARNING: NEVER FIRE FRANGIBLE OR PRE-FRAGMENTED AMMUNITION THROUGH ANY SUPPRESSOR. SOME



FRANGIBLE JACKETED BULLETS HAVE A TENDENCY TO PRODUCE JACKET SEPARATION, WHICH MAY CAUSE THE BULLET OR BULLET FRAGMENTS TO TUMBLE WHILE IN THE SUPPRESSOR, WHICH CAN SERIOUSLY DAMAGE THE INTERNAL BAFFLES AND LEAD TO SUPPRESSOR FAILURE.



WARNING: NEVER USE 22 SHOTSHELL AMMUNITION IN THE MIST-22® OR MIST-22®TD SUPPRESSED BARRELS.

MIST-22® BARREL FITTING AND INSTALLATION:



WARNING: DO NOT INSTALL OR REMOVE THE MIST-22® WHILE THE FIREARM IS LOADED.

MIST-22[®] SUPPRESSED BARREL CONT'D

NOTE: About fitting The MIST-22[®] barrel to the T/CR22[®]

- The MIST-22[®] suppressed barrel is only compatible with T/CR22[®] receivers that have an ID mark dot located on the underside of the receiver barrel retaining alignment lug (FIGURE 2). If the T/CR22[®] receiver does not have this ID mark dot, it is not compatible with the MIST-22[®] barrel.

T/CR22[®] receiver as viewed from the bottom - showing mark that indicates that it is OK to use with MIST-22[®] barrel.

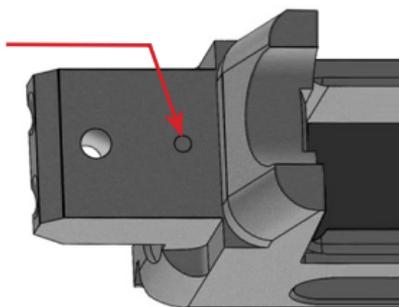


FIGURE 2

1. To use your MIST-22[®] integrally suppressed barrel you will need a stock that is designed to fit a .920" diameter barrel.
2. Remove magazine, lock bolt open and verify the rifle is unloaded.
3. Remove receiver and action screws from rifle stock per manufacturer's instructions. Remove barreled action.
4. Remove two allen-head screws from the v-block on the receiver (FIGURE 3). Remove the barrel from the receiver.

T/CR22[®] receiver as viewed from the bottom with the stock removed.



FIGURE 3

5. For optimum accuracy your MIST-22[®] should fit tightly into the receiver. To size the barrel shank to the receiver use a piece of emery cloth and evenly sand the shank until it fits tightly into the receiver. The MIST-22[®] should be able to be pressed into the receiver by hand. Do not force the MIST-22[®] into the receiver with tools. Lightly lubricating the barrel shank with oil will help ease it into the receiver.

MIST-22® SUPPRESSED BARREL CONT'D

6. Once the MIST-22® is fit into the receiver reinstall the v-block with allen-head screws and tighten evenly.
7. Place barrel/receiver into the stock and tighten action screw.

CLEANING OF THE MIST-22® SUPPRESSED BARREL:

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

1. Remove outer tube by twisting counter clockwise.

CAUTION: The inner G-CORE® is permanently pinned and welded to the barrel. DO NOT attempt to remove the G-CORE® from the barrel. Damage will result. It is also illegal to remove the G-CORE® from the barrel.

2. 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 only as a last resort to remove stubborn lead and carbon deposits on internal components that are not removed by non-marring tools. Take care when using metal tools as their use can damage suppressor components and decrease their useful service life. Adherence to the cleaning instructions and intervals in this manual should make the use of metal hand tools rare and unnecessary for routine cleaning.

3. We recommend using a CLP (Cleaner, Lubricant, Preservative) to clean.

4. 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. Before reassembly the tube, core, and threaded surfaces must be dry, and wiped clean of all excess cleaner and debris. Install the tube back on to the suppressed barrel - HAND TIGHTEN ONLY.

GEMTECH® MIST-22® TD SUPPRESSED BARREL:



FIGURE 4

GEMTECH® MIST-22® TD SUPPRESSED BARREL SPECIFICATIONS:

| | |
|----------------------------------|---|
| SKU: | 12129 |
| UPC: | 609224347832 |
| Chambering: | 22 Long Rifle - subsonic, standard velocity or high velocity* |
| Full-Auto Rated? | No |
| Use Wet or Dry? | DRY ONLY |
| Barrel Length: | 17.0" - Barrel w/Integrated Suppressor |
| Diameter: | .920" |
| Weight: | 23.7 Oz. |
| Tube Material: | 6061 Aluminum |
| Tube Finish: | Matte Black Anodize |
| Core Material: | 17-4 PH Stainless Steel |
| Core Finish: | Black Oxide |
| Barrel Material: | 4140 Steel - 1:16" twist rate |
| Barrel Finish: | QPQ |
| Mount Type: | Fits Ruger® 10/22® Takedown® Receiver |
| Supersonic Ammunition? | OK |
| Disassemble for Cleaning: | Yes - See instructions in text |
| Sound Tested: | 120dB Ruger® 10/22® Takedown® Actual sound measured with Gemtech® 42 gr subsonic ammunition |

*Maximum sound suppression will be obtained using subsonic ammunition

RUGER® and 10/22 Takedown® are registered trademarks of Sturm, Ruger & Co., Inc.

MIST-22®TD SUPPRESSED BARREL CONTINUED

AMMUNITION FOR USE WITH THE MIST-22®TD

• Each ammunition type will have a different sound reduction based on the ammunition velocity, barrel length of the host firearm, and ambient temperature. A 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. Maximum suppression will be obtained using subsonic ammunition. WE ENCOURAGE THE USE OF GEMTECH® SUBSONIC 22LR AMMUNITION.

Visit: gemtech.com for details.



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 AMMUNITION CAN YAW ON EXIT FROM THE RIFLING AND MAY SERIOUSLY DAMAGE THE INTERNAL COMPONENTS OF THE SUPPRESSOR.



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



WARNING: NEVER USE 22 SHOTSHELL AMMUNITION IN THE MIST-22® OR MIST-22®TD SUPPRESSED BARRELS.

MIST-22®TD BARREL FITTING AND INSTALLATION:



WARNING: DO NOT INSTALL OR REMOVE THE MIST-22®TD WHILE THE FIREARM IS LOADED. FOLLOW INSTRUCTIONS FOR BARREL REMOVAL AND INSTALLATION AS OUTLINED IN YOUR ORIGINAL RUGER® 10/22 TAKEDOWN® OWNER'S MANUAL.

1. To use your new GEMTECH® MIST-22®TD integral suppressor you will need a stock that is designed to fit a .920" diameter barrel.

MIST-22®TD SUPPRESSED BARREL

CONTINUED

2. Remove magazine, lock the bolt open, verify that the gun is unloaded.
3. Push the locking lever forward and remove the barrel assembly from the receiver.
4. Remove the stock by removing the barrel band and the stock takedown screw.
5. Remove the takedown block from the standard barrel:
 - A) Pull out the locking lever.
 - B) Remove the locking plunger, locking plunger detent, and locking plunger spring.
 - C) Remove the mounting screws from the takedown block.
6. Install takedown block in reverse order on the MIST-22®TD barrel.
7. Install stock with stock takedown screw (barrel band will not fit with suppressed barrel in place).
8. Mount barrel assembly back onto action.

CLEANING THE MIST-22®TD SUPPRESSED BARREL:

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

1. Remove outer tube by twisting counter clockwise.

CAUTION: The inner G-CORE® is permanently pinned and welded to the barrel. DO NOT attempt to remove the G-CORE® from the barrel. Damage will result. It is also illegal to remove the G-CORE® from the barrel.

2. 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 only as a last resort to remove stubborn lead and carbon deposits on internal components that are not removed by non-marring tools.

continued...

MIST-22®TD SUPPRESSED BARREL

CONTINUED

Take care when using metal tools as their use can damage suppressor components and decrease their useful service life. Adherence to the cleaning instructions and intervals in this manual should make the use of metal hand tools rare and unnecessary for routine cleaning.

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MY GEMTECH® SUPPRESSED BARREL

MAINTENANCE LOG

MY SERIAL No: _____

PURCHASE DATE: _____

MM/DD/YY / ROUND COUNT

_____ / _____

_____ / _____



301326420072

Gemtech
2100 Roosevelt Ave
Springfield, MA 01104

p/n 3013264

REV: MIST/MIST-TD-031220