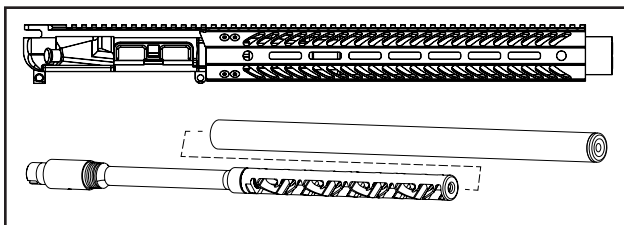


GEMTECH[®]
SUPPRESSORS

Integral Suppressors Safety & Instruction Manual For:

5.56 INTEGRA[®] Suppressed MSR Upper,
300 BLK INTEGRA[®] Suppressed MSR Upper,
MIST-22[™] Suppressed Barrel and
MIST-22[™] TD Suppressed Barrel



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 SUPPRESSED BARREL OR UPPER RECEIVER ATTACHED. FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS CAN RESULT IN SERIOUS INJURY OR DEATH TO YOU OR OTHERS AND DAMAGE TO PROPERTY.

GEMTECH
2100 Roosevelt Ave
Springfield, MA 01104
PHONE: 208-939-7222

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WARNING: THIS SAFETY & INSTRUCTION MANUAL SHOULD ALWAYS ACCOMPANY YOUR SUPPRESSED BARREL OR UPPER RECEIVER AND IT SHOULD BE TRANSFERRED WITH THE SUPPRESSED BARREL OR UPPER RECEIVER 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 firearms INSTRUCTOR).

PHONE: 208-939-7222
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
PHONE: 208-939-7222
E-mail: techstaff@gemtech.com

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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 UPPER RECEIVER 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 or upper receiver.
- **ALWAYS FOLLOW THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL.** Use, installation, adjustment or removal of a suppressed barrel or upper receiver 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.
- **PRIOR TO SUCH USE, VERIFY THAT YOUR SUPPRESSED BARREL OR UPPER RECEIVER IS INTENDED FOR FULLY-AUTOMATIC FIRE.** With fully-automatic fire, heat build-up within the suppressor can become excessive, increasing the likelihood of degraded suppressor performance, skin burns (if contacted), or ignition of material in the environment (if contacted).

YOUR SAFETY RESPONSIBILITIES CONTINUED

- **THE SUPPRESSED GUN BARREL AND/OR SUPPRESSED UPPER RECEIVER 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 OR UPPER RECEIVER 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.
- **ONLY FACTORY-LOADED AMMUNITION THAT MEETS SAAMI SPECIFICATIONS SHOULD BE USED WITH YOUR GEMTECH SUPPRESSED BARREL OR UPPER RECEIVER INSTALLED.** See the Ammunition section of this manual for additional guidance. Also see the ammunition requirements listed for your specific model (starting on page 16 of this manual).
- **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

- **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.
- **ALWAYS HAVE ADEQUATE VENTILATION.** 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. Review the warnings and labels for all ammunition and cleaning products carefully. Wash hands thoroughly after exposure.
- **BEWARE OF BARREL BORE OBSTRUCTIONS.** Be sure the gun’s bore and the integral 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 SUPPRESSED BARREL OR UPPER RECEIVER** beyond the procedure(s) detailed in this manual. Improper disassembly or reassembly of your suppressed barrel or suppressed upper receiver may be dangerous and can lead to serious injury or death.
- **NEVER ALLOW ANY ALTERATION OR REPLACEMENT OF PARTS IN YOUR GEMTECH SUPPRESSED BARREL OR UPPER RECEIVER 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 OR SUPPRESSED UPPER RECEIVER 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 OR UPPER RECEIVER.



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-LOADED AMMUNITION THAT MEETS SAAMI SPECIFICATIONS SHOULD BE USED WITH YOUR GEMTECH SUPPRESSED BARREL OR SUPPRESSED UPPER RECEIVER INSTALLED.



WARNING: NEVER FIRE "TRACER" AMMUNITION THROUGH YOUR SUPPRESSED BARREL OR SUPPRESSED UPPER RECEIVER.



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: WHEN USING A SUPPRESSED BARREL DESIGNED FOR USE WITH 22 LONG RIFLE AMMUNITION, NEVER FIRE HEAVY OR HIGH-GRAIN BULLETS THROUGH A SUPPRESSOR. AVOID AMMUNITION SUCH AS 60 GRAIN 22 LONG RIFLE.

- Use your suppressed barrel or upper receiver only with the calibers for which it was designed. This information is listed in the specific model details in this manual (starts page 16).



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 SUPPRESSED BARREL OR UPPER RECEIVER



WARNING: NEVER ATTEMPT TO ADJUST OR CLEAN A SUPPRESSED BARREL OR UPPER RECEIVER 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 instructions for each GEMTECH model suppressor are included in this manual (starting on page 16). See those instructions that pertain to the suppressor you are using.


REMOVING SUPPRESSED BARREL OR UPPER RECEIVER

 **WARNING: THE SUPPRESSED BARREL OR UPPER RECEIVER 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 OR UPPER RECEIVER 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 OR UPPER RECEIVER AWAY FROM FLAMMABLE MATERIALS OR VAPORS.**

- Confirm that the magazine has been removed and the firearm is completely unloaded. See the specific instructions for each model of Gemtech suppressor later in this manual. Care should be taken during and after firing in the handling of your suppressed barrel or upper receiver. Heat resistant gloves will help, but even with gloves, care should be taken not to exceed the heat resistance capacity of the gloves.

CLEANING SUPPRESSED BARREL OR UPPER RECEIVER

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

 **WARNING: ONCE USED, SUPPRESSED BARREL OR UPPER RECEIVERS 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.**

CLEANING SUPPRESSED BARREL OR UPPER RECEIVER CONTINUED



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 instructions for cleaning your specific model of GEMTECH suppressor in this manual (starting on page 16).
- DO NOT attempt to clean, disassemble or adjust the suppressed barrel or upper receiver 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 16).
- When cleaning DO NOT use metal tools or objects to clean or scrape the tube or any components of the suppressed barrel or upper receiver. Do not use sandpaper or emery cloth to clean any part of the suppressed barrel or upper receiver, damage to the components 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.
- 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.



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

CLEANING SUPPRESSED BARREL OR UPPER RECEIVER CONTINUED



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 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 component part (such as an integrated suppressed barrel or upper receiver) is installed on (or removed from) the firearm.

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 or upper receivers 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® SUPPRESSOR REPAIR POLICY

- GEMTECH maintains complete repair facilities for all the suppressed barrels and upper receivers 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 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 208-939-7222 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: 208-939-7222

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® 5.56 INTEGRA® SUPPRESSED UPPER SPECS:

FIGURE 1



GEMTECH® 5.56 INTEGRA® MSR UPPER SPECIFICATIONS:

SKU	12112
UPC:	609224347030
Chambering	223 REM/ 5.56 NATO
Ammunition Requirements:	Ammunition that Meets SAAMI Specs
Full-Auto Rated:	Yes*
Use Wet or Dry?	DRY ONLY
Overall Length:	10.5" - Barrel w/Integrated Suppressor 16.1 Overall Barrel Length
Diameter:	1.5"
Weight:	5.0 lbs.**
Tube Material:	Titanium Alloy
Tube Finish:	Matte Black High-Temp Cerakote®
Core Material:	6AL4V Titanium G-CORE®
Core Finish:	N/A
Barrel Material:	Stainless Steel
Barrel Finish:	N/A
Mount Type:	Fits on MIL-SPEC AR-15 Pattern MSR Lower Receiver - ** Includes charging handle and bolt carrier assembly
Supersonic Ammunition:	OK
Disassemble for Cleaning:	Yes
SOUND TESTED	131 dB M855 5.56x45mm

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

GEMTECH® 5.56 INTEGRA® UPPER CONTINUED



WARNING: NEVER ATTACH, TIGHTEN OR REMOVE ANY PART OR ACCESSORY 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.

ABOUT THE GEMTECH 5.56 INTEGRA® SUPPRESSED MSR (AR-15 PATTERN) UPPER

- The GEMTECH INTEGRA® is a purpose-built integrally suppressed upper receiver to maximize sound reduction while minimizing blowback to the shooter

CAUTION: If any M-LOK® accessories are to be mounted around the recessed suppressor body, shorter screws may need to be used in order to clear the suppressor tube. Any screws that make contact with the suppressor tube may cause damage to the suppressor.

MOUNTING THE 5.56 INTEGRA® UPPER ON A MIL-SPEC MSR (AR-15 PATTERN) LOWER RECEIVER

- Installation of the INTEGRA® upper receiver is done in the same manner as with any standard mil-spec MSR (Modern Sporting Rifle) receiver (AR-15 pattern) onto a mil-spec MSR lower receiver (AR-15 pattern).
- Installation of the G-CORE® needs to be done with a 3/8" torque wrench set to 15-25 ft-lbs.

AMMUNITION FOR USE IN THE INTEGRA® 5.56 UPPER



WARNING: ONLY FACTORY-LOADED AMMUNITION THAT MEETS SAAMI SPECIFICATIONS SHOULD BE USED WITH YOUR GEMTECH SUPPRESSED UPPER RECEIVER INSTALLED.

- To clean your INTEGRA® G-CORE®, be sure the firearms is unloaded. Remove the core with a 3/8" torque wrench by rotating counter clockwise (as viewed from the front). Clean INTEGRA® core using a CLP (Cleaner, Lubricant, Preservative) and a standard cleaning brush. The upper receiver should be cleaned following the instructions in your rifle manual. Please note you may see some erosion on the front of your INTEGRA® G-CORE®. This is normal and expected. If you feel the erosion is excessive please contact the GEMTECH customer service department.

GEMTECH® 300 BLK INTEGRA® SUPPRESSED UPPER SPECS:

FIGURE 2



GEMTECH® 300 BLK INTEGRA® MSR UPPER SPECIFICATIONS:

SKU	12113
UPC:	609224347023
Chambering	300 AAC Blackout
Ammunition Requirements:	Ammunition that Meets SAAMI Specs
Full-Auto Rated:	Yes*
Use Wet or Dry?	DRY ONLY
Overall Length:	10.0" - Barrel w/Integrated Suppressor 16.1 Overall Barrel Length
Diameter:	1.5"
Weight:	4.5 lbs. - Includes charging handle and bolt carrier assembly
Tube Material:	Titanium Alloy
Tube Finish:	Matte Black High-Temp Cerakote®
Core Material:	6AL4V Titanium G-CORE®
Core Finish:	N/A
Barrel Material:	Stainless Steel
Barrel Finish:	N/A
Mount Type:	Fits on MIL-SPEC AR-15 Pattern MSR Lower Receiver - ** Includes charging handle and bolt carrier assembly
Supersonic Ammunition:	OK
Disassemble for Cleaning:	Yes
SOUND TESTED	128dB 300 Blackout Subsonic

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

GEMTECH® 300 BLK INTEGRA® UPPER CONTINUED



WARNING: NEVER ATTACH, TIGHTEN OR REMOVE ANY PART OR ACCESSORY 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.

ABOUT THE GEMTECH 300 BLK INTEGRA® SUPPRESSED MSR UPPER

- The GEMTECH INTEGRA® is a purpose-built integrally suppressed upper receiver to maximize sound reduction while minimizing blowback to the shooter

CAUTION: If any M-LOK® accessories are to be mounted around the recessed suppressor body, shorter screws may need to be used in order to clear the suppressor tube. Any screws that make contact with the suppressor tube may cause damage to the suppressor.

MOUNTING THE 300 BLK INTEGRA® UPPER ON A MIL-SPEC MSR LOWER RECEIVER (AR-15 PATTERN).

- Installation of the INTEGRA® upper receiver is done in the same manner as with any standard MSR (Modern Sporting Rifle) receiver onto a mil-spec MSR lower receiver (AR-15 pattern).
- Installation of the G-CORE® needs to be done with a 3/8" torque wrench set to 15-25 ft-lbs.

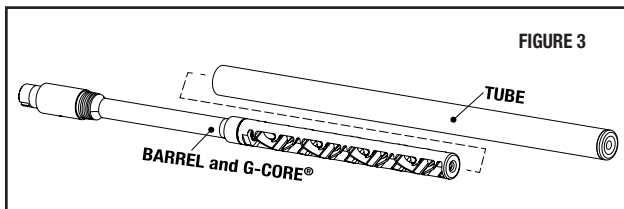
AMMUNITION FOR USE IN THE 300 BLK INTEGRA® UPPER



WARNING: ONLY FACTORY-LOADED AMMUNITION THAT MEETS SAAMI SPECIFICATIONS SHOULD BE USED WITH YOUR GEMTECH SUPPRESSED UPPER RECEIVER INSTALLED.

- To clean your INTEGRA® G-CORE®, be sure the firearms is unloaded. Remove the core with a 3/8" torque wrench by rotating counter clockwise (as viewed from the front). Clean INTEGRA® G-CORE® using a CLP (Cleaner, Lubricant, Preservative) and a standard cleaning brush. The upper receiver should be cleaned following the instructions in your rifle manual. Please note you may see some erosion on the front of your INTEGRA® G-CORE®. This is normal and expected. If you feel the erosion is excessive please contact the GEMTECH customer service department.

GEMTECH® MIST-22™ SUPPRESSED BARREL SPECS:



GEMTECH® MIST-22™ SUPPRESSED BARREL SPECIFICATIONS:

SKU	12128
UPC:	609728889692
Chambering	22 Long Rifle - subsonic, standard velocity or high velocity*
Ammunition Requirements:	Ammunition that Meets SAAMI Specs
Full-Auto Rated:	No
Use Wet or Dry?	DRY ONLY
Overall Length:	17.0" - Barrel w/Integrated Suppressor
Diameter:	.920"
Weight:	18.8 oz.
Tube Material:	6061 T6 Anodized Aluminum
Tube Finish:	Black Anodized
Core Material:	7075 T6 Aluminum
Core Finish:	Anodized
Barrel Material:	4140 Steel - 1:16" twist rate
Barrel Finish:	Isonite Coated
Mount Type:	Fits into Ruger® 10/22® Receiver - Requires bull barrel style stock/forend
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 CONTINUED

- 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 AGUILA SSS 60 GR. SUBSONIC 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.

MIST-22™ BARREL FITTING AND INSTALLATION:



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

1. To use your MIST-22™ integral suppressed barrel you will need a stock that is designed to fit a .920" diameter barrel.
2. Remove the barrel / receiver from the old stock.
3. Remove two allen-head screws from the V-Block on the receiver. Remove the barrel from the receiver.
4. 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.
5. Once the MIST-22™ is fit into the receiver reinstall the V-Block with allen-head screws and tighten evenly.
6. Place barrel/receiver into the stock and tighten action screw.

MIST-22™ SUPPRESSED BARREL CONTINUED

MAINTENANCE OF THE MIST-22™ SUPPRESSOR:

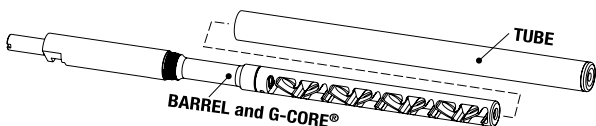
1. Remove outer tube by twisting counter clockwise.
2. G-Core® can be cleaned while mounted on barrel.

CAUTION: The inner G-Core® is pinned to the barrel. DO NOT attempt to remove the G-Core® from the barrel. Damage will result.

3. When cleaning DO NOT use metal tools or objects to clean or scrape the tube or G-Core®.
4. We recommend using a CLP (Cleaner, Lubricant, Preservative) to clean.
5. To clean the tube and G-Core® use a nylon or plastic brush to remove deposits. Use a nylon brush to clean any debris from the threads. Allow both the tube and G-Core® to dry before reassembly. Lightly lubricate prior to reassembly. To install the tube - HAND TIGHTEN ONLY.

GEMTECH® MIST-22™TD SUPPRESSED BARREL SPECS:

FIGURE 4




GEMTECH® MIST-22™TD SUPPRESSED BARREL SPECIFICATIONS:

SKU	12129
UPC:	609224347832
Chambering	22 Long Rifle - subsonic, standard velocity or high velocity*
Ammunition Requirements:	Ammunition that Meets SAAMI Specs
Full-Auto Rated:	No
Use Wet or Dry?	DRY ONLY
Overall Length:	17.0" - Barrel w/Integrated Suppressor
Diameter:	.920"
Weight:	21.3 oz.
Tube Material:	6061 T6 Anodized Aluminum
Tube Finish:	Black Anodized
Core Material:	7075 T6 Aluminum
Core Finish:	Anodized
Barrel Material:	4041 Steel - 1:16" twist rate
Barrel Finish:	Isonite Coated
Mount Type:	Fits into 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 ammo
*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

- 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 AGUILA SSS 60 GR. SUBSONIC 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.**

MIST-22™TD BARREL FITTING AND INSTALLATION:

 **WARNING: DO NOT INSTALL OR REMOVE THE MIST-22TD 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.
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.

MIST-22™TD SUPPRESSED BARREL CONTINUED

7. Replace stock with stock takedown screw (barrel band will not fit).
8. Mount barrel assembly back onto action.

MIST-22™TD BARREL MAINTENANCE:

1. Remove outer tube by twisting counter clockwise.
2. G-CORE® can be cleaned while mounted on barrel.

CAUTION: The inner G-Core® is pinned to the barrel. DO NOT attempt to remove the G-Core® from the barrel. Damage will result.

3. When cleaning DO NOT use metal tools or objects to clean or scrape the tube or G-CORE®.
4. We recommend using a CLP (Cleaner, Lubricant, Preservative) to clean.
5. To clean the tube and G-CORE® use a nylon or plastic brush to remove deposits. Use a nylon brush to clean any debris from the threads. Allow both the tube and G-CORE® to dry before reassembly. Lightly lubricate prior to reassembly. To install the tube - HAND TIGHTEN ONLY.



GEMTECH[®]
SUPPRESSORS

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



GEMTECH
2100 Roosevelt Ave
Springfield, MA 01104

p/n 3010501

REV:INTEGRAL_SUPPRESSORS-103018