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LMTDEFENSE.COM

ION 30 SUPPRESSOR SYSTEM



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INFORMATION IN THE PUBLICATION IS FREE OF ITAR RESTRICTED INFORMATION

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THE LMT DEFENSE DIFFERENCE

At LMT Defense, we promote a commitment to continual improvement and exceeding quality objectives. LMT also provides a ***LIMITED LIFETIME WARRANTY*** against all manufacturing defects. Should you discover an issue that does not meet your expectations of the product, LMT will repair or replace the item free of charge. In the event of damage to a suppressor, and it is deemed not eligible for repair or replacement, LMT Defense will allow the purchase of a new suppressor of the same model for 50% off the MSRP value.

At LMT Defense, we believe in providing customers with state-of-the-art technologies. We believe in providing quality products that work the 1st time and last a long time. Whether you're a new firearm owner, experienced operator, or anything in between - we aim to earn your business and trust by continuing to provide a product built to stand the harshest conditions.

SAFETY

CONSIDERATIONS

Ammunition: Ammunition will affect how your new suppressor functions. Only use quality, factory-new, ammunition in your firearm.

Concentricity: Reduce the risk of a baffle strike by ensuring that the barrel threads are aligned concentrically with the bore of your host weapon's barrel. If you do not have the means to verify this, it is recommended that you have a competent gunsmith verify it for you.

Your ION: The ION 30 will be shipped with the stainless-steel HUB Base Mount Adaptor 1.375"x24 (for quick detach mounting) and the (7.62mm) Sound Restrictor Cap installed. Also included is a Regulator Single Port Muzzle Brake in 5/8"x24 for 7.62 and a multi-tool (IONTOOL) for suppressor/end cap/muzzle device mount and dismount.

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SAFETY

IMPORTANT

Please review this manual in full before using your suppressor or suppressor products. Failure to follow the instructions listed below could result in damage to your firearm and/or serious personal injury or death. ALWAYS check your weapon's chamber and make certain that the weapon is unloaded and the magazine is removed before proceeding any further. If there is any question or doubt, consult the operator's manual applicable to your host firearm as to the proper procedure for clearing and/or unloading your weapon.

Verify barrel thread pitch compatibility of host firearm against respective 1/2x28 or 5/8x24 thread pitches of LMT products. ION suppressor must be free of obstructions such as mud, dirt, etc. Do not attempt to shoot through an obstructed suppressor. Check alignment & concentricity through visual bore check or alignment rod.

WARNING!

THE SUPPRESSOR MAY BECOME EXTREMELY HOT AFTER USE. NEVER GRAB A HOT SUPPRESSOR AS IT CAN RESULT IN BURNS AND INJURY.

NOTE: DEBRIS ON THE THREADS AND TAPER SURFACES MAY CAUSE MISALIGNMENT OF SUPPRESSOR PARTS AND ALLOW FOR BULLET STRIKES ON BAFFLES OR THE FRONT CAP.

Any questions concerning the performance or care of your suppressor should be directed to our Customer Service Department by email at sales@lmtdefense.com or by phone at (309) 787-7151.

WARRANTY / LAWFUL USE

WARRANTY:
We provide a lifetime warranty against all manufacturing defects and damages caused by the normal use of this product. The manufacturer will repair or replace free of charge any suppressor manufactured by, or at the direction of, LMT Defense. The product is sold “as is” with no further implied contractual rights or warranties beyond those expressly stated herein. The warranty does not apply to certain conditions or acts. It is at the sole discretion and determination of LMT Defense if a particular defect or condition is covered by this warranty. Conditions not covered include, but are not limited to modifications, abuse, neglect, use of defective ammunition, use of improperly sized ammunition, and criminal conduct. LMT Defense assumes no liability for damages or bodily injury caused by such acts or omissions as previously described. Abuse and neglect are defined as usage outside of the reasonable scope for which the product is intended, thus contributing to the accelerated and unreasonable premature wear of the suppressor itself.

If a repair is needed, then the owner must contact our Customer Service Department at email sales@lmtdefense.com or by phone at (309) 787-7151. An LMT Defense representative will plan for return of the suppressor at manufacturer’s shipping expense. DO NOT SHIP THE SUPPRESSOR FOR REPAIR WITHOUT FIRST CONTACTING CUSTOMER SERVICE AND DO NOT SHIP IN ANY EVENT WITHOUT A COPY OF THE APPROVED BATF FORM. When you ship the suppressor back to the manufacturer, please include a detailed statement concerning the type of defect or malfunction encountered and describe the ammunition used and type of host weapon the product was used on or attached. If for any reason your suppressor is not eligible for repair or replacement, you may purchase a replacement suppressor for 50% off the MSRP for a same or similar suppressor. Please contact our Customer Service Department for further details and requirements.

WARRANTY / LAWFUL USE

LAWFUL USE AND POSSESSION:
Your new suppressor is an NFA weapon and is not legal to own or possess in certain jurisdictions. LMT Defense does not offer any express or implied promises or affirmations concerning the use, possession, or ownership of your suppressor. If you have any questions concerning the ownership, possession, or use of your suppressor contact the chief local law enforcement officer in the jurisdiction in which you reside or your local BATF office for further information concerning the ownership, use, and possession of NFA controlled weapons.

HELPFUL OWNERSHIP INFORMATION
ALWAYS MAINTAIN A COPY OF THE APPLICABLE BATF DOCUMENTS TO YOUR SUPPRESSOR WITH THE SUPPRESSOR ITSELF WHENEVER TRANSPORTING OR USING YOUR SUPPRESSOR. FAILURE TO DO SO COULD RESULT IN CONFUSION, PROSECUTION, OR CONFISCATION OF YOUR NFA CONTROLLED WEAPONS.

PATENTED ION SUPPRESSOR SYSTEM OVERVIEW

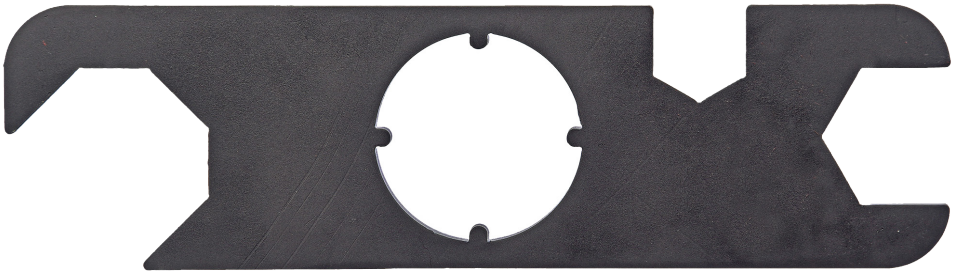
The ION suppressor system includes a muzzle device as well as a specifically designed service tool. See details below about the individual features and their function in regards to system performance.

GAS SEAL TAPER
(PREVENTS CARBON LOCKING)





WRENCH FLATS
(FOR DEVICE INSTALL)



IONTOOL
MULTITOOL FOR AT BASES, CAP, AND MUZZLE DEVICES.

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PATENTED ION SUPPRESSOR SYSTEM OVERVIEW

The LMT ION system consists of a suppressor designed to reduce back pressure while maintaining optimal signature reduction properties. Flash, sound, and environmental disruption are all reduced in the low maintenance design of the ION suppressor.



MODULARITY OF THE ION SYSTEM

The ION is designed with the industry standard 1.375” x 24 “HUB” removable base. This feature allows users to interchange various mounting systems and accessories in the suppressor market. “HUB” base improves the ION’s modularity.



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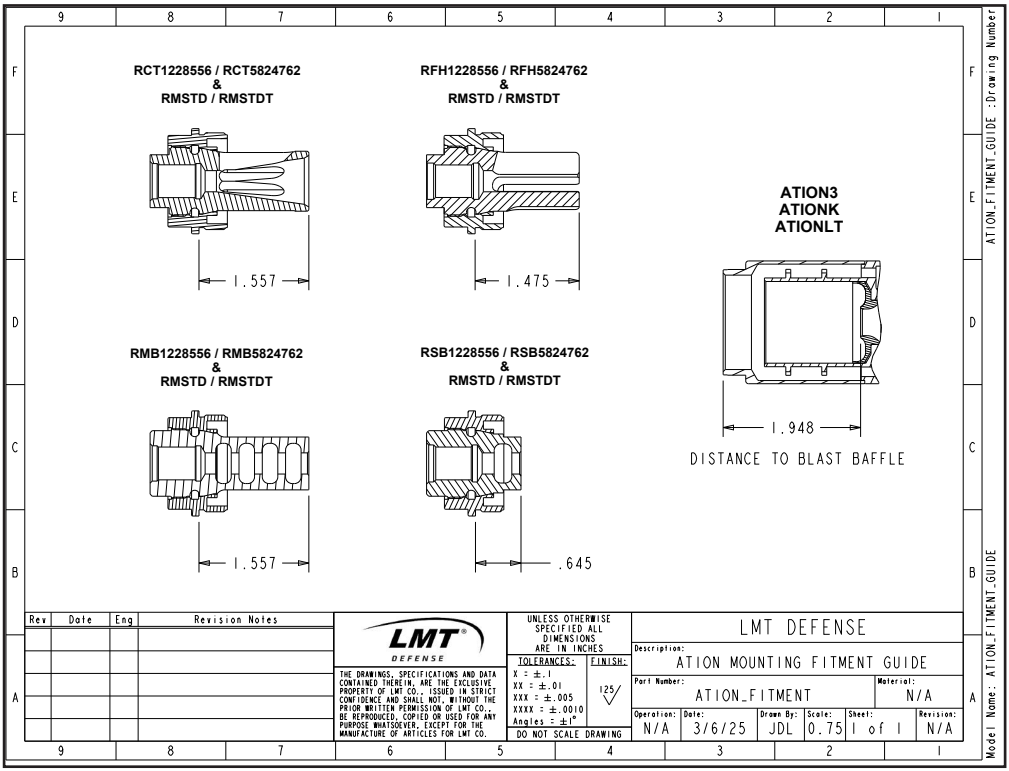
THIRD PARTY HUB

If using another manufacturer's mounting system by utilizing the HUB mounting system, please reference the below fitment guide and follow the installation instructions of the 3rd party manufacturer.



This fitment guide is to help familiarize those who currently have or are looking to purchase one of our suppressors or accessory products to understand the respective products impact on fitment and spacing for a system and the compatibility and clearance for use both on LMT specific products & other third-party manufacturers products.

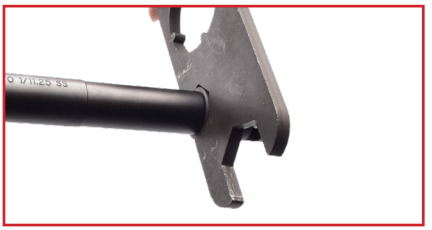
MUZZLE DEVICE INSTALLATION

*Pre-installation note: Remove current muzzle device according to manufacturer's instructions and ensure the barrel shoulder and threads are properly cleaned with gun cleaning solvent and lightly oiled.





STEP 1. Install LMT muzzle device on the host weapon by threading the muzzle device clockwise onto the barrel until the rear of the device sits securely against the barrel shoulder.





STEP 2. Using the ION TOOL (included), an adjustable wrench, or 3/4" open end wrench, index the flats of the muzzle device and torque to approximately 30ft/lb or approximately 20 degrees turn after hand tight.

*User may choose to "time" the orientation of the muzzle device for unsuppressed use, but it is not required for suppressed use. Optional timing shims are provided with all individual muzzle device packaging. Do not use crush washers or compression washers for suppressor-mounted muzzle devices as this can lead to misalignment between the muzzle device and the rifle bore.

SUPPRESSOR INSTALLATION







REGULATOR MOUNT/BASE MOUNTING

STEP 1. To mount the suppressor, align the hub base mount with the threads of the muzzle device. Carefully engage the threads & turn the suppressor counter clockwise.

STEP 2. Thread suppressor onto mount until hand tight, then torque suppressor approximately 20 degrees past hand tight with the provided ION TOOL.

Complete the installation process with a general visual and hand inspection of the suppressor and its engagement on the weapon system. Suppressor should not feel loose. A fully installed and secure suppressor will be concentric with the bore of the weapon barrel. Your suppressor is now ready.

SUPPRESSOR REMOVAL

REGULATOR MOUNT/BASE REMOVAL

STEP 1. UNLOAD firearm and allow The ION to completely cool to the touch. Using the provided ION TOOL, index with the flats of the HUB base and wrench the suppressor clockwise.



STEP 2. Once the suppressor is loose, it can be removed from the muzzle device by hand. Store suppressor in clean, secure location and ensure all threads are free of debris before using it again.





Note: For aggressive firing cadences, it is recommended to degrease the HUB base threads and use a high temperature threadlocker. Apply 3-4 light, evenly spaced dabs to threads. It is highly recommended to wait the full 24 hours before subjecting the base to the torque or heat of live firing to prevent the mount from unthreading.

DIRECT THREAD ION MOUNTING

DIRECT THREAD BASE MOUNTING

STEP 1: Remove the Regulator HUB base mount adaptor using the ION tool. Index the tool with the flats of the HUB and turn counter clockwise to loosen. The process is the same when returning to the Regulator HUB.







STEP 2: Screw the HUB direct thread mount adaptor in clockwise. Utilize a second ION TOOL, a large crescent wrench, or a 1.5” open end wrench (not included), to hold the body of the suppressor while you tighten the HUB on the body. Torque value is 25+ ft/lb, or approximately 20 degrees of rotation past hand tight.





STEP 3. Install the ION suppressor assembly onto the host weapon by turning the suppressor clockwise. Continue until the suppressor is firmly seated against the shoulder of the host weapon. Then use the ION TOOL, indexed with the HUB base, to torque the suppressor an additional ~20 degrees after hand tight.

DIRECT THREAD ION MOUNTING



SUPPRESSOR REMOVAL

STEP 1. Allow The ION to completely cool to the touch. Using provided ION TOOL, index the flats of the hub base and wrench the suppressor counterclockwise.



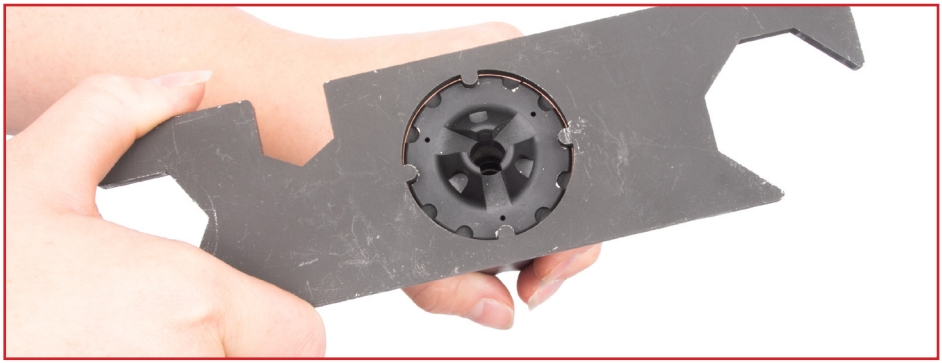
STEP 2. Once the suppressor is loose, it can be removed from the muzzle device by hand. Store suppressor in clean, secure location and ensure all threads are free of debris before using it again.



Note: For aggressive firing cadences, it is recommended to degrease the HUB base threads and use a high temperature threadlocker. Apply 3-4 light, evenly spaced dabs to threads. It is highly recommended to wait the full 24 hours before subjecting the base to the torque or heat of live firing to prevent the mount from unthreading.

SUPPRESSOR CAP INSTALLATION AND REMOVAL

Align the pins of the ION TOOL with the notches of the suppressor cap. Ensure tool is flat against the cap with the pins evenly and fully engaged and apply torque counter clockwise to loosen and remove. Note: If mounted to the host weapon, ensure the firearm is unloaded, the suppressor is not hot, and firmly hold the ION with one hand to ensure the muzzle device or direct thread mount are not unintentionally loosened.



If re-attaching, clean threads and apply a high temperature anti seize lubricant to the surfaces. Using the included tool, hand tighten the cap. Only 5-10 ft-lb of torque is needed. Do not over tighten!

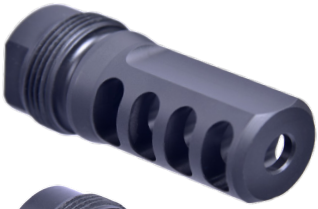


*NOTE: For use with higher firing cadence: Apply 3-4 light dabs of anti-seize compound to threads, evenly spaced around the perimeter of the threads.

LMT DEFENSE ACCESSORIES



CLOSED TINE FLASH HIDER
RCT5824762



4-PORT REGULATOR BRAKE
RMB5824762



3 PRONG FLASH HIDER
RFH5824762

TAPER SEAL



RSB5824762 - MINI BRAKE- 1.338" OAL

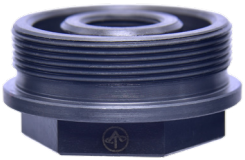
ALL DEVICES ALSO
AVAILABLE IN 1/2"X28

SUPPRESSOR BASES & CAPS

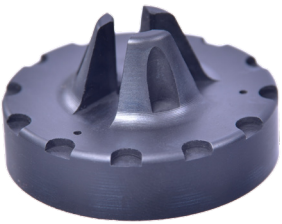


RMSTD - XENO BASE - .845" OAL

OPEN WRENCH COMPATIBLE 1.375"X24
HUB MOUNT THREAD 17-4 STAINLESS
STEEL, PVD COATING. ALSO AVAILABLE
IN TITANIUM.



RMI228556 - DIRECT THREAD - .845"



EC556RFH - FLASH CAP

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MAINTENANCE

Cleaning:

- Minimum recommended cleaning cycle is every 4,000 rounds.
- Allow suppressor to soak in CLR for a few hours to break down large carbon deposits.
- Utilize a pick from a standard weapon cleaning kit to ensure vent holes are free of carbon, dirt, debris, or any other obstructions.
- Use a brush and CLP to clean the internal threads of the suppressor.
- Conservative application of oil to the locking collar itself is recommended.
- Cleaning of the muzzle device is similar to the internal of the suppressor. Scrape off built up carbon if any is present. A quick application of CLR to break down any additional carbon followed by cleaning with CLP and a brush. Dry device of excess oil to prevent attracting dirt when shooting unsuppressed.
- Once cleaned, test fit suppressor for full engagement and lock up.

Care:

- Do not drop suppressor directly onto base or muzzle. If dropped, test fit lock up for proper retention and check bore alignment to prevent end cap strikes.
- Protective finish may be compromised with extended firing schedules. This will not affect the life or performance of the suppressor system.
- During field use, if suppressor is submerged in mud or similar material, clean as best as possible before continuing usage.

Storage:

- When not in use, store suppressor in a clean dry container or carrying case to prevent debris from entering the locking threads on the inside of the suppressor or into the baffles of the suppressor body.
- Keep tool and suppressor together to aid in rapid employment of unit.

MAINTENANCE CONT.

Inspection:

- During cleaning cycles, inspect welds for cracks or fractures.
- Inspect the muzzle device and look for any damage to the gas seal or locking threads. Any large burrs or chips in surface may affect lock up and performance.
- Check muzzle of the suppressor periodically for baffle strikes. A baffle strike will be indicative of a larger issue and could mean improper installation or a damaged suppressor baffle.
- During field use, periodically check muzzle and vented cap for dirt and debris build up. Light debris will be ejected under fire and will not be an issue, however performance may be affected by larger deposits.
- It may be recommended during long periods of suppressor use to occasionally remove and reinstall the suppressor to make sure locking system is fully operational and prevent carbon locking that may have occurred. If any deformations, cracks, or failures to the locking system are noted, discontinue service of suppressor and have armorer advise on continued usage or replacement procedures.

Service Life:

- Typical service life is around 30,000 rounds
- Service life of the suppressor system will depend greatly on the firing schedule and adherence to maintenance schedule.
- Users must properly maintain the suppressor to ensure long life and may want to increase frequency of maintenance depending on amount of fire experienced.
- If extended use of tracer or high pressure ammo is encountered, increase maintenance cycles to prevent additional internal carbon build up.

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