CT5P

5.56 NATO Sound Suppressor

Operator's Manual

DEAD AIR
DEFENSE

PURPOSE-BUILT. MISSION-READY.

We recognize that every customer is unique, with their own mission and purpose. Above all, we honor the dedication and sacrifice of our Law Enforcement and Military professionals who serve on our behalf. Our approach is to deliver mission-ready solutions that set the standard for superior performance.

Our Dead Air Defense products are purpose-built and engineered to be the absolute best, enabling service members to complete their objectives effectively with confidence. We don't simply manufacture silencers; we produce solutions designed to meet the evolving challenges faced by those who protect and defend.

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FIREARMS ARE DANGEROUS! REVIEW THIS OPERATOR'S MANUAL IN FULL BEFORE USING YOUR SUPPRESSOR. FAILURE TO FOLLOW THE INSTRUCTIONS LISTED BELOW COULD RESULT IN DAMAGE TO YOUR FIREARM AND/OR SERIOUS PERSONAL INJURY OR DEATH. DO NOT ATTEMPT TO USE YOUR FIREARM AND/OR SUPPRESSOR UNTIL YOU HAVE THE PROPER TRAINING TO DO SO.

PRODUCT OVERVIEW

The CT5P Patrol™ Silencer is our first patrol-specific, gas-regulated, ultra-lightweight, and low-backpressure Compact-Triskelion baffled 5.56 NATO silencer. This CT5P has been engineered to meet the precise demands of law enforcement officers using semi-automatic duty rifles. It is designed to minimize hearing risk, reduce muzzle concussion in confined environments, and enhance officer survivability.

FIREARM	CALIBER	BARREL LENGTH	AMMUNITION	DBA @ EAR	DBA @ MUZZLE
AR15	5.56 NATO	11.5 INCHES	IMI - MK262 Eq. 77 GR	137 dB	141 dB
AR15	5.56 NATO	14.5 INCHES	IMI - MK262 Eq. 77 GR	135 dB	139 dB
AR15	6mm ARC	16 INCHES	Hornady - 6mm ARC 108 GR	138 dB	140 dB

A note on our sound testing:

At Dead Air Silencers, we take pride in the innovative and scientific processes we use to design our products. Part of improving a product is measuring performance, and you can't improve what you can't accurately measure.

While we test across the sound spectrum for frequency and "perceived" sound, we also test for peak sound pressure in decibels (dB) at various locations. We're keenly interested in balancing at-ear and muzzle results for the best possible shooting experience.

Our published sound testing is performed in accordance with MIL-STD-1474E, which doesn't exactly provide the best indicator of how something sounds, however, it does provide a very conservative and consistent muzzle sound level that can be reliably compared to previous results or known baselines. Our system provides very conservative results that you can rely on as accurate and representative of what you can experience with our products.

Other manufacturers may move the microphone to other locations to provide more favorable readings, such as back behind the muzzle of the suppressor or only at the shooter's ear. Some even rely on dealer/media sources to measure using systems that typically provide very favorable results. To keep all of this data in context for end users, you should know this normally results in a bias of several decibels.

Our stated results are from our engineering group, not our marketing group.

Test Equipment Hottinger Brüel & Kjær Impulse Noise Evaluation Kit, https://www.bksv.com/en/ instruments/daq-data-acquisition/analyzer-system/impulse-noise-evaluation-system

GENERAL CONSIDERATIONS FOR YOUR SUPPRESSOR'S PERFORMANCE

CONCENTRICITY

To reduce the risk of a baffle strike, it is important to ensure that your barrel threads are aligned concentrically with the bore axis of your host firearm's barrel. If you do not have the means to verify this, it is strongly recommended that you have a competent armorer verify it for you. Specialized alignment rods can also be purchased at www.deadairsilencers.com.

AMMUNITION

Ammunition will have a significant impact on how your new suppressor functions and performs. Use high-quality factory-new ammunition in your firearm. The CT5P in all variants is rated for 5.56 NATO and 6mm ARC.

BARREL QUALITY, LENGTHS, RATE OF FIRE

Suppressors are rated for specific cartridges and barrel lengths. Shorter barrels and/or faster cyclic rates of fire erode suppressor baffles and barrels faster. Shorter barrels can also affect acoustic performance.

Ensure the shoulder of your barrel is perpendicular to the bore axis and undamaged. Ensure the barrel of your rifle has not exceeded its specified lifespan and that the barrel threads are concentric to the bore axis.

CHECK YOUR FIREARM'S CHAMBER AND MAKE CERTAIN THAT THE FIREARM IS UNLOADED AND THE MAGAZINE REMOVED BEFORE PROCEEDING ANY FURTHER. IF THERE IS ANY QUESTION OR DOUBT, CONSULT THE OPERATOR'S MANUAL APPLICABLE TO YOUR FIREARM FOR THE PROPER PROCEDURE FOR CLEARING AND/OR UNLOADING YOUR FIREARM.

DO NOT INSTALL YOUR NEW SUPPRESSOR ON A FIREARM WITH A CLOSED ACTION!

GET TO KNOW YOUR CT5P

PARTS LIST

CT5PKM BLACK – KEYMO® GOV

PART #	DESCRIPTION	QTY
CT5PKMBLK	Dead Air Defense CT5P Patrol™ 5.56 GMS™ Low Back Pressure Silencer with KeyMo® Gov Adapter in Haynes® 282®	1
DA017GOV	Dead Air Defense GOV Compression Nut, 17-4, Nitride	1
DA011	Dead Air Defense Compression Nut Wave Spring	1
DA016GOV	Dead Air Defense GOV Detent Ring, 17-4, Nitride	1
DA017GOV	Dead Air Defense GOV Latch, 17-4 Stainless Steel, Nitride	1
DA018GOV	Dead Air Defense GOV Latch Spring, 302 Stainless Steel	1
DA019GOV	Dead Air Defense GOV Latch Retaining Pin, 420 Stainless Steel	1
TL001	Dead Air Defense Suppressor Tool, 4130 Steel	1
DA115GOV	Dead Air Defense KeyMicro GOV Flash Hider 1/2-28, 17-4, 9mm	1
DA001	Dead Air Defense Shim Kit 1/2-28	1

CT5PKM FDE – KEYMO® GOV

PART #	DESCRIPTION	QTY
CT5PKMFDE	Dead Air Defense CT5P Patrol™ 5.56 GMS™ Low Back Pressure Silencer with KeyMo® Gov Adapter in Haynes® 282®	1
DA017GOV	Dead Air Defense GOV Compression Nut, 17-4, Nitride	1
DA011	Dead Air Defense Compression Nut Wave Spring	1
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DA115GOV	Dead Air Defense KeyMicro GOV Flash Hider 1/2-28, 17-4, 9mm	1
DA001	Dead Air Defense Shim Kit 1/2-28	1

CT5PXN BLACK – XENO™ GOV

PART #	DESCRIPTION	QTY
CT5PXNBLK	Dead Air Defense CT5P Patrol™ 5.56 GMS™ Low Back Pressure Silencer with fixed Xeno™ Adapter in Haynes® 282®	1
TL001	Dead Air Defense Suppressor Tool, 4130 Steel	1
DA129GOV	Dead Air Defense Xeno™ GOV Flash Hider 1/2-28, 17-4, 6mm	1
DA001	Dead Air Defense Shim Kit 1/2-28	1

CT5PXN FDE – XENO™ GOV

PART #	DESCRIPTION	QTY
CT5PXNFDE	Dead Air Defense CT5P Patrol™ 5.56 GMS™ Low Back Pressure Silencer with fixed Xeno™ Adapter in Haynes® 282®	1
TL001	Dead Air Defense Suppressor Tool, 4130 Steel	1
DA129GOV	Dead Air Defense Xeno™ GOV Flash Hider 1/2-28, 17-4, 6mm	1
DA001	Dead Air Defense Shim Kit 1/2-28	1

CT5PDT BLACK – DIRECT THREAD

PART #	DESCRIPTION	QTY
CT5PDTBLK0528 (1-2/28) CT5PDTBLK5824 (5/8-24)	Dead Air Defense CT5P Patrol™ 5.56 GMS™ Low Back Pressure Silencer with fixed 1/2-28 or 5/8-24 Direct Thread Adapter in Haynes® 282®	1
TL001	Dead Air Defense Suppressor Tool, 4130 Steel	1

CT5PDT FDE – DIRECT THREAD

PART #	DESCRIPTION	QTY
CT5PDTFDE0528 (1-2/28) CT5PDTFDE5824 (5/8-24)	Dead Air Defense CT5P Patrol™ 5.56 GMS™ Low Back Pressure Silencer with fixed 1/2-28 or 5/8-24 Direct Thread Adapter in Haynes® 282®	1
TL001	Dead Air Defense Suppressor Tool, 4130 Steel	1

MUZZLE DEVICE INSTALLATION

When discussing suppressor orientation during assembly, "back" will always be toward the host firearm, and "front" will always be away from it.

MUZZLE DEVICE INSTALLATION

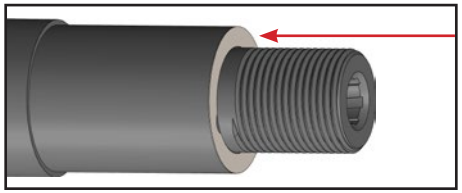
1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to installation.
2. Depending on the specific firearm, ensure the barrel is constrained with a barrel-action rod, barrel clamp, or action clamp depending on the specific firearm. Remove the current muzzle device from the firearm per agency policy and the firearm's Original Equipment Manufacturer (OEM) instructions.
3. Before installation, ensure the threads of the host firearm's barrel are cleaned with a degreaser. Wipe free any excess debris, degreaser, or oil. If oil is still present, repeat the degreasing process before continuing. Repeat this process for the threads on the muzzle device.
4. The following models ship with Dead Air Silencers 3-Prong Flash Hiders:

- CT5PKM (DA115GOV – KeyMicro GOV Flash Hider, 1/2-28)
- CT5PXN (DA129GOV – Xeno™ GOV 3-Prong Flash Hider, 1/2-28)

5. For best performance, ease of installation, and user instruction, the flash hiders should be timed using muzzle shims (DA001) so that the indexing features on the muzzle devices are at the 12:00/0 degree position. See reference images on the next page.

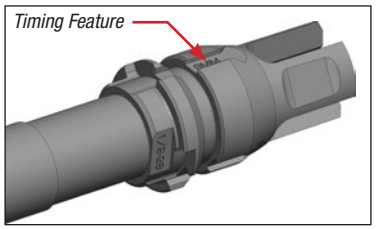
NOTE: The number of shims necessary to time the muzzle device and achieve best performance will vary depending on OEM barrel threads.

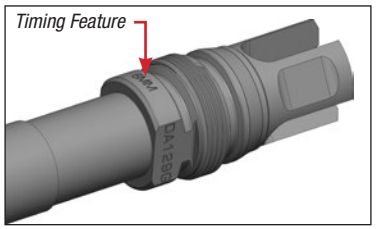
6. Begin by placing one (1) shim onto the muzzle of the barrel such that the shim contacts the barrel shoulder.



7. Thread the Flash Hider onto the barrel muzzle threads, ensuring that it is not cross-threaded. Once the rear face of the Flash Hider contacts the shim, inspect the rotational position of the timing slot (KeyMo® GOV/KeyMicro GOV) or caliber engraving position (Xeno™ GOV).

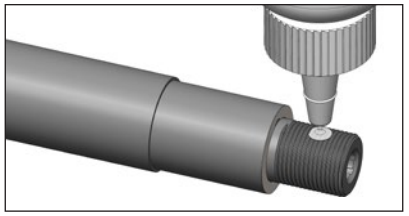
   If the timing slot for (KeyMo® GOV/KeyMicro GOV) or caliber engraving position (Xeno™) is at the 11:00 to 11:30 position, as shown below, move on to the next step.



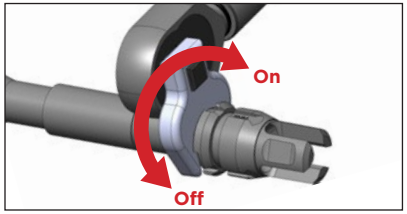


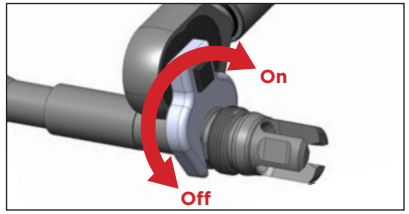
   If the timing features are NOT at the 11:00 to 11:30 position, unthread the muzzle device and add the requisite number of shims, then repeat the process to align the timing features to the 11:00 to 11:30 position.

8. Once the muzzle device is in the 11:00 to 11:30 position with the correct number of shims, unthread the muzzle device, apply a small drop of Rocksett® and rethread the muzzle device.

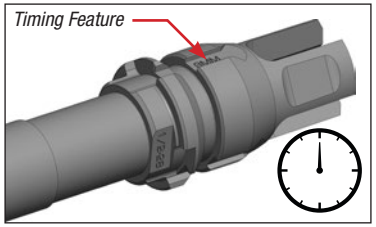


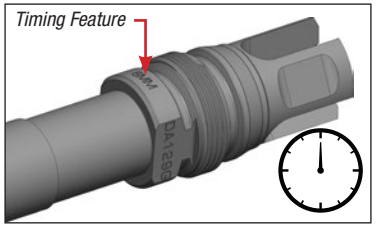
9. Using a torque wrench with a ¾" crow's-foot wrench, apply 25 foot-pounds +/- 2.5 foot-pounds of torque to align the muzzle device alignment features to the 12:00 position. Do this for all muzzle devices (KeyMo® & Xeno™). Once complete, allow 24 hours for the Rocksett® to cure before live fire. Do not exceed 30 foot-pounds of torque, as this could reduce the system's accuracy.





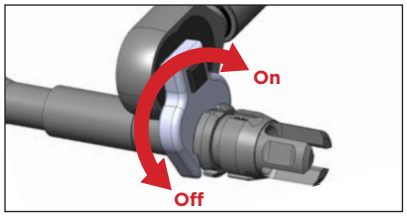
10. For KeyMo® GOV/KeyMicro GOV Flash Hiders, time the muzzle device such that the primary slot with the caliber designation is at the 12:00 position after final torque has been applied.
11. For Xeno™ muzzle devices, time the muzzle device so that the caliber designation is at the 12:00 position (as shown below) and the wrench flats are vertical after final torque has been applied.

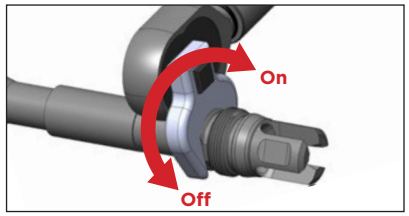




MUZZLE DEVICE REMOVAL

1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to removal.
2. If Rocksett® thread-locker was used, soak the barrel and muzzle device in water for 12-24 hours. Hot water will help accelerate the process.
3. After the soak period is finished, ensure the barrel is constrained with a barrel-action rod, barrel clamp, or action clamp, depending on the specific firearm.
4. Using a ¾" wrench, engage the flats on the muzzle device and apply a counterclockwise motion with the wrench to remove the muzzle device.





IF ROCKSETT WAS USED, DO NOT HEAT THE MUZZLE DEVICE THREADS IN AN EFFORT TO LOOSEN THE THREADS.

WHEN THE TORQUE BREAKS BETWEEN THE TWO PARTS, THE WRENCH MAY SWING ENOUGH TO CREATE A PINCH POINT. ALWAYS BE CAREFUL.

INSPECTION UPON ASSEMBLY

All components should fit snugly with no gaps or rattling. If any component is not fully tightened, check the threads for damage or debris. Clean both mating parts as necessary and repeat the tightening step.

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

FAILURE TO PROPERLY ASSEMBLE AND INSTALL YOUR SUPPRESSOR COULD RESULT IN SERIOUS INJURY, DAMAGE TO THE SUPPRESSOR, THE HOST FIREARM, THE USER, AND/OR A THIRD PARTY.

OUR PRODUCTS ARE CALIBER SPECIFIC. UNLESS STATED OTHERWISE ON THE SUPPRESSOR ITSELF OR ON THE PACKAGING, THE SUPPRESSOR WILL NOT FUNCTION SAFELY WITH ANY PROJECTILE LARGER THAN WHAT IS SPECIFIED OR CARTRIDGES WITH PRESSURES HIGHER THAN 6MM ARC. USE OF YOUR SUPPRESSOR OUTSIDE OF ITS INTENDED SCOPE COULD RESULT IN DAMAGE TO YOUR FIREARM, DAMAGE TO PROPERTY, BODILY INJURY, OR DEATH.

SUPPRESSOR & COMPONENTS INSTALLATION AND REMOVAL

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

PREPARATION

Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to installation or removal.

Your suppressor is intended to be attached to the muzzle end of your firearm. It will thread directly onto your existing barrel or directly to a KeyMo® GOV/KeyMicro GOV or Xeno™ GOV muzzle device.

Suppressors are highly dependent on the quality of the barrel threading, barrel shoulder perpendicularity, and thread runout. A loose or misaligned suppressor or muzzle device will shift the projectile's point of impact due to misalignment, and, in the worst-case scenario, may cause the projectile to strike the baffles or front cap, damaging the suppressor.

Do not overtighten the suppressor (greater than 30 foot-pounds). This may result in damage to your firearm and/or suppressor, and could also affect the system's accuracy.

Before installation, ensure the threads of the host firearm's barrel are clean and free of any debris or previously used thread-locker before carefully threading the suppressor onto the muzzle end of your firearm. Take care not to cross-thread or force the suppressor onto the muzzle threads.

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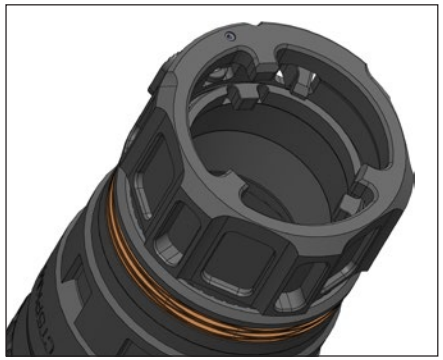
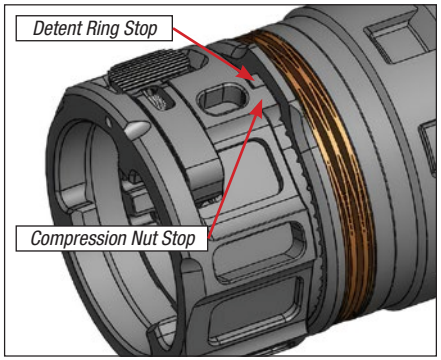
CT5PKM

CT5PKM – KEYMO®/KEYMICRO GOV INSTALLATION

STEP ONE: PREPARATION

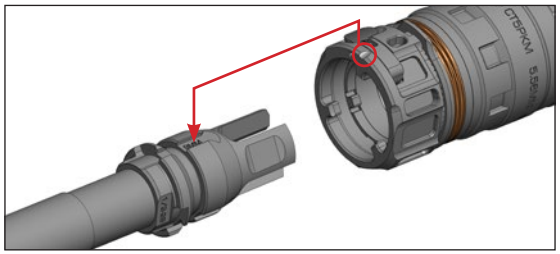
1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to installation.
2. The suppressor can only go on one way and come off one way.
3. Before installation, ensure the taper of the muzzle device is clean and free of any debris. Wipe free any excess debris, degreaser, or oil.
4. Ensure the compression nut stop is aligned with the detent ring stop, as shown below.



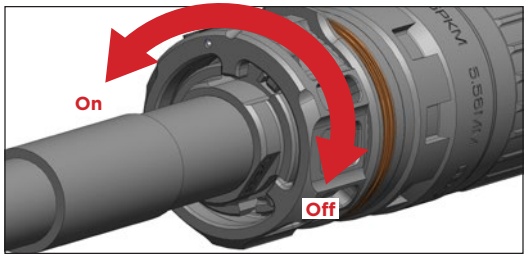


STEP TWO: INSTALLATION

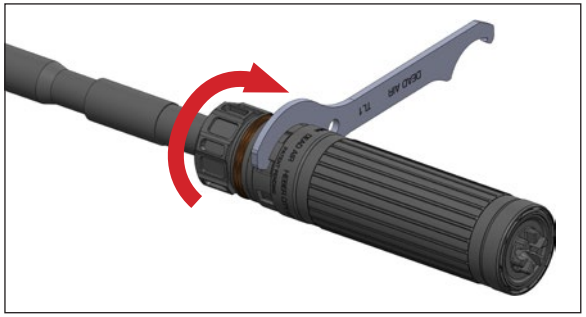
1. Align the teardrop cut/latch with the 12:00 position on the muzzle device. Insert the muzzle device in the suppressor. The latching mechanism of the KeyMo®/KeyMicro GOV compression nut is passive and will automatically move into position during installation.



2. Once the suppressor can no longer move rearward, grip the suppressor body and rotate the suppressor body in a clockwise direction, as shown below. As the suppressor body is rotated, an audible "clicking" will be felt and heard; this is normal. Continue to rotate the suppressor body by hand to approximately 15 foot-pounds, using two hands if necessary.



3. If required by agency policy to ensure the suppressor cannot be removed by hand, use the supplied TL001 tool to engage the tool features on the body of the suppressor and continue to rotate the suppressor to no more than 20 foot-pounds +/- 2.5 foot-pounds.



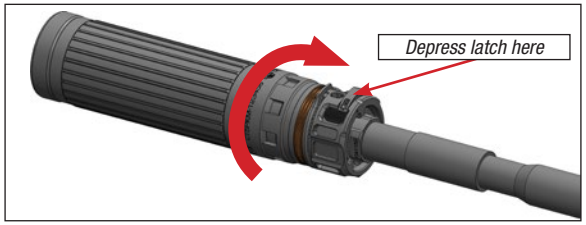
4. After finishing the suppressor installation, refer to the Alignment & Function Check section on page 17 before live fire.

CT5PKM – KEYMO®/KEYMICRO GOV REMOVAL

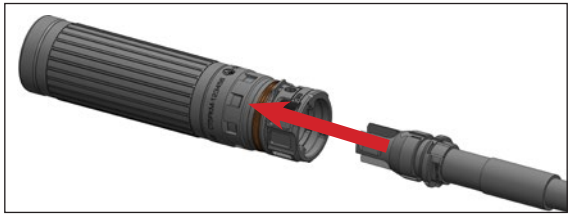
1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to removal.

WHEN THE TORQUE BREAKS BETWEEN THE TWO PARTS, THE WRENCH MAY SWING ENOUGH TO CREATE A PINCH POINT. ALWAYS BE CAREFUL.

2. While gripping the suppressor body or using a TL001 tool to engage the suppressor body tool features, rotate the suppressor body in a counterclockwise direction until the compression nut stop and detent ring stop are touching.



3. Depress the latch and rotate the compression nut counterclockwise to unlock the suppressor. Pull the suppressor forward to remove it completely.



CT5PXN

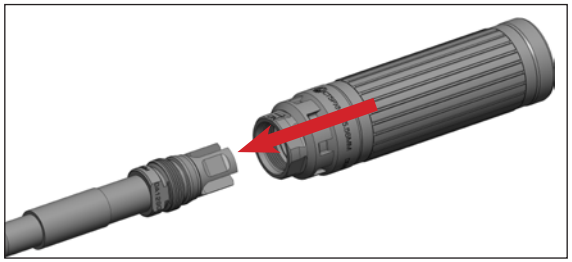
CT5PXN – XENO™ INSTALLATION

STEP ONE: PREPARATION

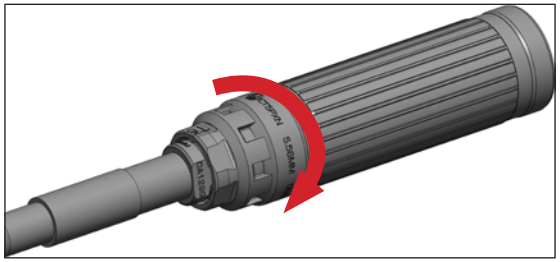
1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to installation.
2. The suppressor can only go on one way and come off one way. The Xeno™ mounting system is a LEFT-HANDED thread.
3. Before installation, ensure the taper and threads of the muzzle device are clean and free of any debris. Wipe free any excess debris, degreaser, or oil.

STEP TWO: INSTALLATION

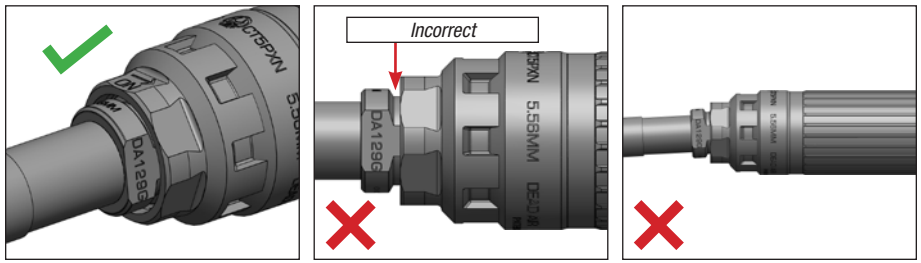
1. Align the suppressor body over the muzzle device and insert the muzzle device into the rear of the suppressor.



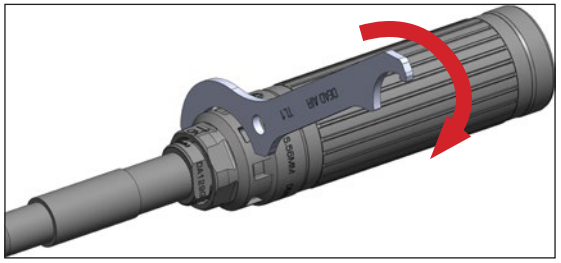
2. Grip the suppressor body and rotate the suppressor in a counterclockwise direction until the suppressor meets the corresponding taper on the Xeno™ GOV muzzle device. Firmly grip the suppressor with two hands and tighten the suppressor to approximately 15 foot-pounds +/- 2.5 foot-pounds. Note that the suppressor should thread on smoothly without any binding. Ensure the suppressor is not cross-threaded.



3. The suppressor will be installed correctly if the relief groove on the Xeno™ GOV muzzle device is entirely covered by the suppressor adapter, as shown below. Continue to rotate the suppressor body by hand to approximately 15 foot-pounds +/- 2.5 foot-pounds, using two hands if necessary. If the relief groove, as shown in the image below, is showing, then the suppressor is not tightened to the proper amount.



4. If required by agency policy to ensure the suppressor cannot be removed by hand, use the supplied TL001 tool to engage the tool features on the body of the suppressor and continue to rotate the suppressor to no more than 20 foot-pounds +/- 2.5 foot-pounds.



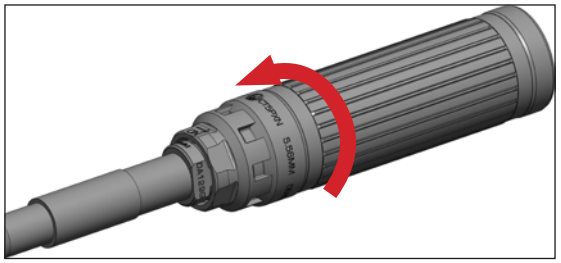
5. After finishing the suppressor installation, refer to the Alignment & Function Check section on page 17 before live fire.

CT5PXN – XENO™ REMOVAL

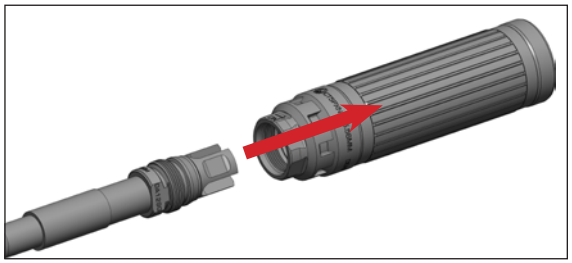
1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to removal.

WHEN THE TORQUE BREAKS BETWEEN THE TWO PARTS, THE WRENCH MAY SWING ENOUGH TO CREATE A PINCH POINT. ALWAYS BE CAREFUL.

2. While gripping the suppressor body or using a TL001 tool to engage the suppressor body tool features, rotate the suppressor body in a clockwise direction until the suppressor body is fully disengaged.



3. Pull the suppressor forward to remove it completely.



CT5PDT

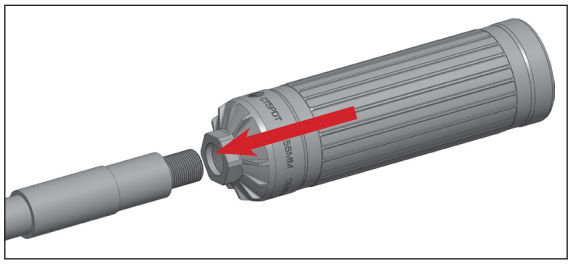
CT5PDT – DIRECT THREAD INSTALLATION

STEP ONE: PREPARATION

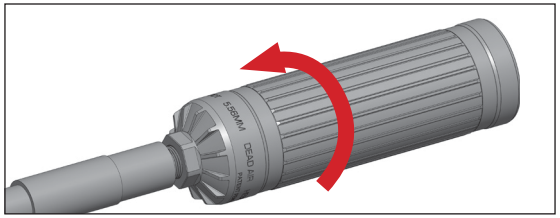
1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to installation.
2. The suppressor can only go on one way and come off one way.
3. Ensure the barrel is constrained with a barrel-action rod, barrel clamp, or action clamp, depending on the specific firearm. Remove the current muzzle device from the firearm per agency policy and the firearm's Original Equipment Manufacturer (OEM) instructions.
4. Before installation, ensure the threads of the host firearm's barrel are cleaned with a degreaser. Wipe free any excess debris, degreaser, or oil. If oil is still present, repeat the degreasing process before continuing. Repeat this process for the suppressor threads.

STEP TWO: INSTALLATION

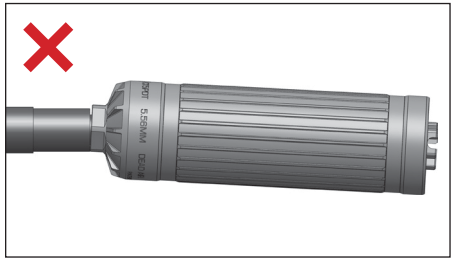
1. Align the suppressor over the barrel threads and bring the suppressor downward over the threads.

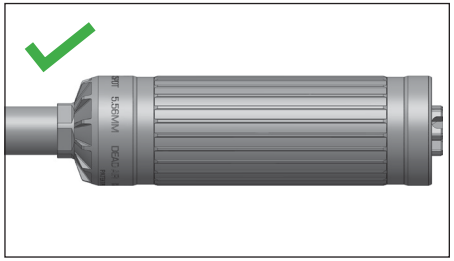


2. Grip the suppressor body and slowly rotate the suppressor in a clockwise direction to start the threading.

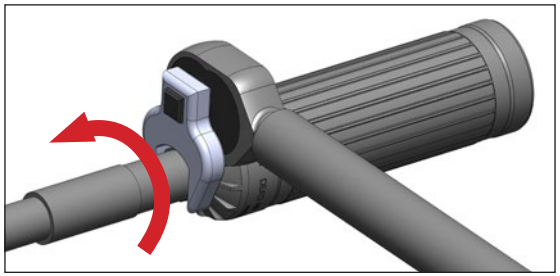


3. Continue rotating the suppressor in a clockwise direction until the rear of the suppressor meets the barrel shoulder. Note that the threads may feel tighter than normal, as the suppressor has been designed with specific thread tolerances to ensure it does not loosen under use. Take special care NOT to cross-thread the suppressor, as shown below.





4. Using a ¾" crow's-foot and torque wrench, engage the rear wrench flats portion of the suppressor and torque the suppressor to 25 foot-pounds +/- 2.5 foot-pounds, no more than 30 foot-pounds.



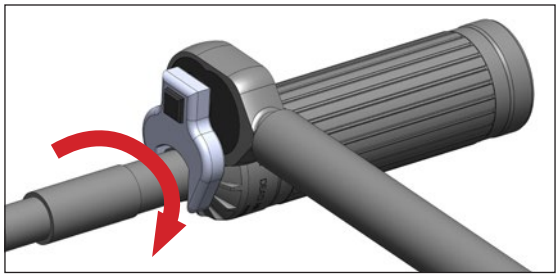
5. After finishing the suppressor installation, refer to the Alignment & Function Check section on page 17 before live fire.

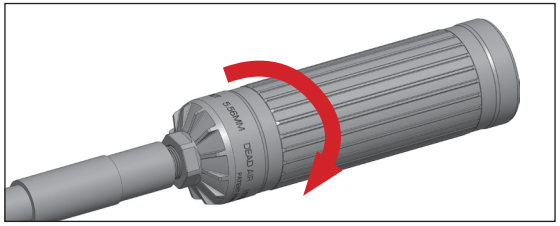
CT5PDT – DIRECT THREAD REMOVAL

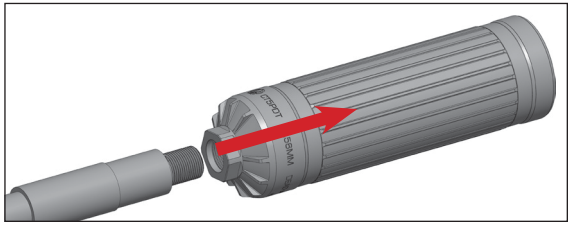
1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to removal.

WHEN THE TORQUE BREAKS BETWEEN THE TWO PARTS, THE WRENCH MAY SWING ENOUGH TO CREATE A PINCH POINT. ALWAYS BE CAREFUL.

2. Ensure the barrel is constrained with a barrel-action rod, barrel clamp, or action clamp, depending on the specific firearm.
3. Using a ¾" wrench, engage the rear wrench flats portion of the suppressor and rotate the suppressor in a counterclockwise direction.



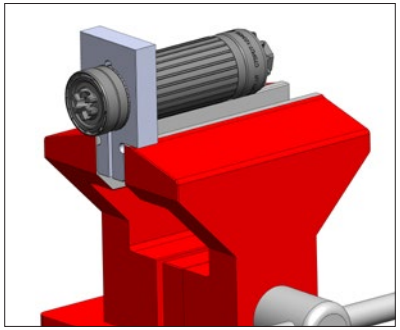




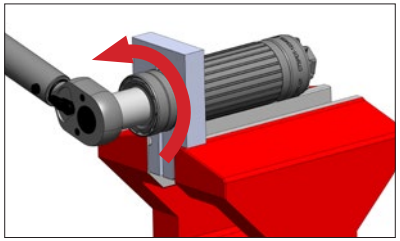
FRONT CAP INSTALLATION AND REMOVAL

FRONT CAP REMOVAL

1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to removal.
2. The suppressor front cap is RIGHT-HAND threaded. It can only go on one way and come off one way
3. All CT5P models have factory-installed front caps and do not require removal for use.
4. Ensure the suppressor is rotationally constrained by using a suppressor vice block. Take special care not to crush the suppressor in the block. Only use enough clamping force to secure the block rotationally.

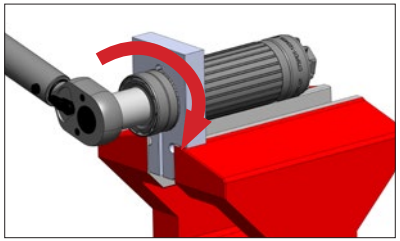


5. Using an 11/16” socket and wrench, engage the tines on the RXD206 front cap and rotate the wrench in a counterclockwise motion to unthread the front cap.



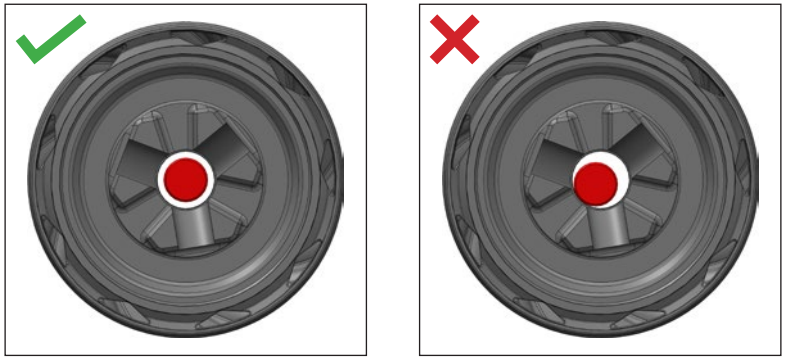
FRONT CAP INSTALLATION

1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature prior to installation.
2. The suppressor front cap is RIGHT-HAND threaded. It can only go on one way and come off one way
3. All CT5P models have factory-installed front caps and do not require removal for use.
4. Using an 11/16” socket and torque wrench, engage the tines on the RXD206 front cap and rotate the wrench in a clockwise motion to unthread the front cap. Torque the front cap to 35 inch-pounds (approximately 3 foot-pounds).



ALIGNMENT & FUNCTION CHECK

1. Once the suppressor is installed, place a certified alignment rod of the same caliber as the barrel through the bore of the suppressor and into the barrel such that roughly 1 inch of the rod is protruding through the bore of the suppressor.
2. The suppressor alignment rod should be centered in the bore and not touching the suppressor front cap.



3. If the alignment rod is touching the front cap or is drastically misaligned, stop the installation process and contact Dead Air Silencers Customer Service at info@deadairsilencers.com or 801-857-4232.
4. If the alignment rod is centered and not touching the front cap, remove the alignment rod, placing it back into its case to protect it. Reassemble and secure the suppressed firearm in accordance with agency policy.
5. To function check the suppressor before using the suppressed firearm, firmly grip the silencer and attempt to turn, shake, and wobble the suppressor. The suppressor should not move, rotate, or wobble. Ensure the suppressor is firmly and rigidly mounted to the firearm, and that the alignment rod has been removed. Failure to do so could result in damage to your firearm and damage to the suppressor.

FAILURE TO PROPERLY ASSEMBLE AND INSTALL YOUR SUPPRESSOR COULD RESULT IN SERIOUS INJURY, DAMAGE TO THE SUPPRESSOR, THE HOST FIREARM, THE USER, AND/OR A THIRD PARTY.

CLEANING AND MAINTENANCE

INTRODUCTION

Dead Air Silencers are precision-engineered firearm suppressors built to endure extreme conditions, but even the most robust steel components are susceptible to corrosion when exposed to high humidity and/or salt-laden air.

These environmental factors can significantly accelerate the oxidation, especially on carbon steel and non-stainless alloys, potentially compromising the performance and longevity of suppressor components. To ensure maximum operational life and optimal function, users and armorers must follow proper preventative maintenance and care protocols, per agency policies.

UNDERSTANDING WET ENVIRONMENTS

Salt air, often encountered in coastal regions, contains chloride ions that aggressively attack metal surfaces, particularly at microscopic defects or at exposed areas in protective coatings.

All wet environments, inclement weather events such as heavy rains, or operations where water is present for extended periods of time, can lead to surface corrosion of components.

High humidity and/or water further exacerbate this effect by prolonging the time that moisture remains on the surface, creating an ideal environment for corrosion. Even stainless steel, although more resistant, can suffer from pitting and crevice corrosion under these conditions if not properly maintained.

PREVENTIVE MAINTENANCE MEASURES

REGULAR CLEANING AND INSPECTION

After exposure to humidity, rain, snow, or coastal environments, the suppressor should be disassembled (if user-serviceable) and thoroughly cleaned using a non-corrosive solvent. Pay particular attention to muzzle devices, front caps, the compression nut, detent ring, and any thread interfaces, as these are common sites for moisture accumulation.

DRY THOROUGHLY

Moisture trapped within the suppressor can continue to degrade metal surfaces over time. After cleaning, dry all components thoroughly with compressed air or allow them air-dry in a low-humidity environment. Avoid storing the suppressor while still warm or wet from recent use.

PROTECTIVE COATINGS

Dead Air products feature high-quality surface treatments, including nitriding, Cerakote®, and phosphate coatings. However, applying a light film of a corrosion-inhibiting oil or a high-quality firearm protectant—such as Break-Free CLP or Eezox®—provides an additional layer of protection, especially on bare threads or exposed steel components.

PROPER STORAGE

Store the suppressor in a cool, dry location with minimal exposure to ambient air fluctuations. Use desiccant packs or a dehumidifier in safes or storage containers. Avoid leaving the suppressor attached to the firearm for long periods, particularly in salt-air environments, as this can trap moisture between mating surfaces, unless the suppressor has been semi-permanently torqued onto the firearm.

USE OF COVERS OR FRONT CAPS

When not in use, consider covering the suppressor with a breathable protective wrap or silicone-treated cloth. Installing thread protectors or end caps can also prevent moisture ingress into internal threads and cavities.

INSPECTION AND SERVICE

Users should routinely inspect their suppressors for signs of corrosion, such as discoloration, surface roughness, or pitting. Early detection is key—light surface rust can often be removed with a brass brush and lubricant, while more advanced corrosion may require professional evaluation. If unsure, contact Dead Air Silencers for inspection or service support.

CONCLUSION

Dead Air Silencers are crafted for durability, but high-humidity, wet, and salt-air conditions demand an elevated level of care. By following these maintenance steps, users can prevent corrosion-related damage and ensure their suppressor continues to perform reliably in even the harshest environments.

SUPPRESSOR CLEANING AND MAINTENANCE STEP ONE: DISASSEMBLY AND PREPARATION

1. Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature.
2. Ensure that proper full coverage eye and skin protection is worn during all cleaning and/or maintenance operations.
3. Remove and disassemble the suppressor only per Agency policy.
4. Once the suppressor has been removed, move on to STEP TWO.

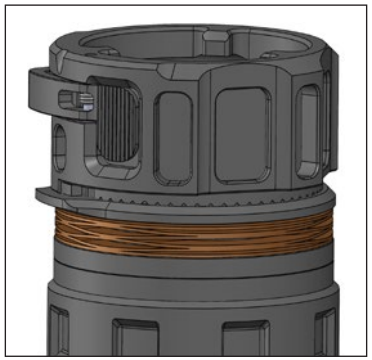
SUPPRESSOR CLEANING AND MAINTENANCE STEP TWO: ADAPTER, FRONT CAP, AND SUPPRESSOR CONTROL SURFACES

ADAPTER MAINTENANCE

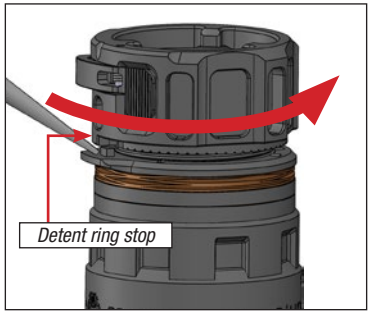
The CT5PKM – KeyMo®/KeyMicro GOV is the only version of the CT5P family that requires adapter maintenance.

ADAPTER DISASSEMBLY

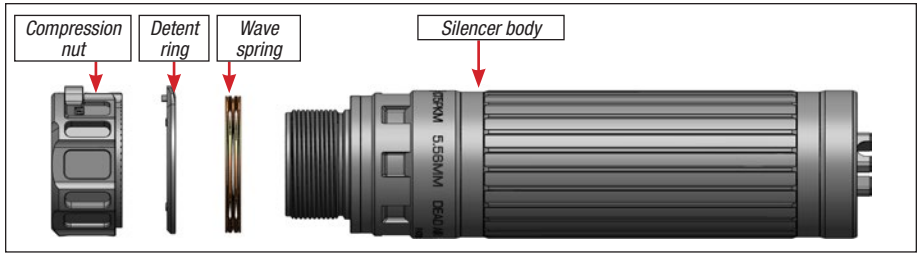
1. Once the silencer has been removed, orient the KeyMo® GOV compression nut side of the suppressor upward.



2. Engage the detent ring tab as shown in the image below. Pull the detent ring downward enough so the compression nut clears the detent stop.
3. Rotate the compression nut counterclockwise. Repeat steps 2 and 3 until the KeyMo® compression nut rotates freely, and set the compression nut aside.



4. Remove the detent ring, note the detent direction, and remove the wave spring from the KeyMo® compression nut; set them aside.



5. Inspect the KeyMo™compression nut & compression nut for any signs of rust or fouling. If fouling or rust is present, use a high-quality Cleaner, Lubricant & Protectant (CLP) and a brass or nylon brush to clean the fouling or rust away from the outside or inside of the body.

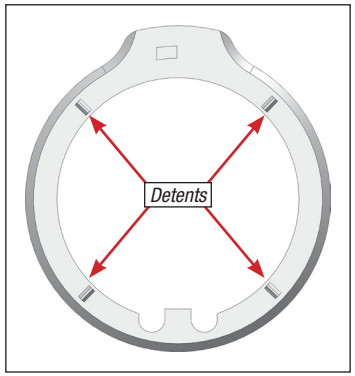
TAKE SPECIAL CARE NOT TO DAMAGE THE TAPER OR THREADS OF ANY COMPONENT.

NOTE: If rust or corrosion is present on the front cap, ensure that the amount of rust has not exceeded more than 0.010 inches (0.254mm) into the front face of the front cap. When in the field, treat the silencer like all other steel components on the firearm. Clean, dry, and apply a light coating of oil to all external surfaces, especially after exposure to water or salt water.

6. Using high-temperature, high-quality grease brands such as Lucas® or Valvoline®, evenly coat the threads of the KeyMo® compression nut and the threads of the front cap with 0.25 CC of grease.

NOTE: 0.25 CC should be enough to coat both threads.

7. Using the same high-temperature, high-quality grease, apply a thin coating of grease to the detents on the detent ring.



SUPPRESSOR CLEANING AND MAINTENANCE STEP THREE: MUZZLE DEVICE CLEANING AND INSPECTION

PREPARATION

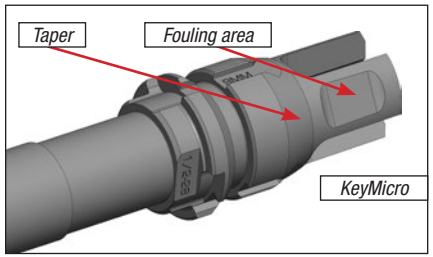
Ensure the firearm is unloaded, with the magazine removed, the chamber is empty, and the firearm is at ambient temperature.

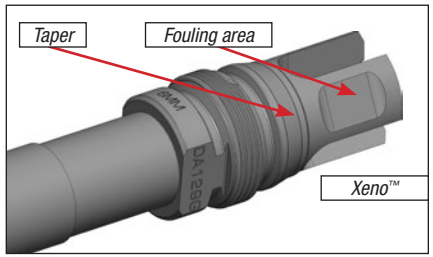
CLEANING AND INSPECTION

1. Inspect the muzzle device for any fouling or rust. If either is present, use a brass or nylon brush with CLP to scrub and remove the rust or fowling from the muzzle device. Take special care not to remove the Nitride from the muzzle device.

THE TAPER ON THE MUZZLE DEVICE IS A CRITICAL SURFACE. NEVER USE A KNIFE OR EDGED TOOL ON THE TAPER.

2. Over time, the muzzle device will accumulate lead and carbon from use on the surfaces in front of the taper. After roughly 4000 rounds, use a scraping tool, brush, and/or polymer base scouring pad to apply a small amount of oil or CLP, then remove the lead and carbon deposits. Take special care not to remove the Nitride surface treatment.





SUPPRESSOR CLEANING AND MAINTENANCE STEP FOUR: MAIN SUPPRESSOR BODY CLEANING

SUPPRESSORS AND/OR ANY SUPPORTING PRODUCTS THAT ARE CLEANED USING CHEMICALS OUTSIDE OF THE NON-TOXIC, WATER-SOLUBLE, BIO-DEGRADABLE CLEANING SOLUTIONS AND/OR CHEMICALS THAT DISSOLVE ANY METAL WILL RESULT IN A LOSS OF WARRANTY.

OWNERS WILL BE SUBJECT TO ANY COSTS RELATED TO LEADING TO REPAIR OF THE PRODUCT, IF IT IS DETERMINED THAT THE PRODUCT IS NO LONGER SERVICEABLE DUE TO CHEMICAL EROSION OF CRITICAL SURFACES, STRUCTURES, AND/OR COMPONENTS.

THE PERSON CONDUCTING THE CLEANING IS SOLELY RESPONSIBLE FOR THE PROPER DISPOSAL OF THE CLEANING SOLUTION AND/OR ANY POST SUPPRESSOR CLEANING SOLUTION THAT MAY OR MAY NOT CONTAIN HEAVY METALS.

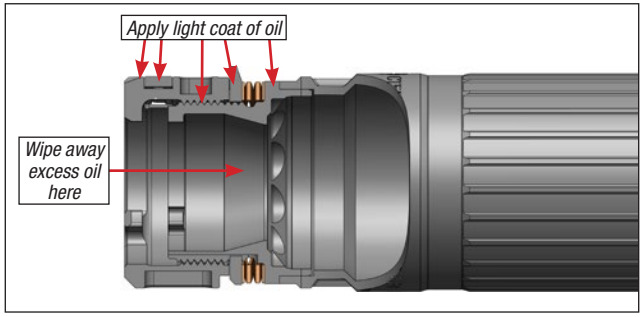
To clean the suppressor's internal body, end-users are encouraged to use any commercially available, non-toxic, water-soluble, biodegradable cleaning solutions and methods.

To enhance cleaning of the internal surfaces and geometry, the Dead Air Silencer Cleaning System (SCS) is preferred. An ultrasonic tank WITHOUT HEAT AND/OR CORROSIVE CHEMICALS may be used on any materials such as titanium, steel, or Haynes® 282®.

Note that chemicals, alone or in combination with an ultrasonic process, can cause discoloration of coated or painted surfaces. A discoloration of coating or paint will not compromise the suppressor's performance or warranty.

After cleaning the main body of the suppressor, blow the suppressor out with compressed air, wipe away any residual cleaning solution, and apply a light coating of oil to all steel components. The main body of the suppressor is made of Haynes-282, which does not require a coating of oil.

The CT5PKM – KeyMo®/KeyMicro GOV back nut area is machined from 17-4 stainless steel, and a light coating of oil is applied on the inner and outer surfaces of all components. Excess oil should not be present on the taper surface.



DISCLAIMER

Dead Air Silencers is not responsible for damages or injuries due to misuse or unintended use of its products. This product is potentially dangerous and, as such, adequate safety precautions must be taken to avoid damage to your firearm, damage to third parties, bodily injury, or death. Please consult our website for further details at www.deadairsilencers.com or call 801-857-4232.

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, Dead Air Silencers. 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 Dead Air Silencers whether 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. Dead Air Silencers 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 required, the owner must contact our Customer Service Department at 801-857-4232 or info@deadairsilencers.com. A Dead Air Silencers representative will plan for the return of the suppressor.

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 Dead Air Silencers, please include a detailed statement concerning the type of defect or malfunction encountered, describe the ammunition used, and the type of host firearm the product was used on or attached to.

LAWFUL USE AND POSSESSION

Your new suppressor is an NFA firearm and is not legal to own or possess in certain jurisdictions. Dead Air Silencers 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 firearms.

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 FIREARMS.

CONTACT INFORMATION

Contact Dead Air Silencers directly by telephone at 801-857-4232 or visit our website at www.deadairsilencers.com.

Thank you for supporting our products. Feel free to contact us with any inquiries or concerns you might have.