

TiTrex™ Suppressor

User Installation & Maintenance Manual



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Warning & Safety Information

Before using your **TiTrex™ Suppressor**, read and follow the instructions outlined in this manual. Failure to follow these instructions could result in property damage, serious injury or death. Do not attempt to use this product unless you have specific training and experience in the use of firearms and suppressors. If you are unsure about any instruction in this manual, contact Precision Armament Customer Service at 800-724-3802 (toll free) for assistance.

- ⚠ **Verify the firearm is unloaded** and the action is open before attaching or removing the suppressor. Check the chamber and remove any magazine. If you are unsure how to clear your firearm, stop and consult with the firearm manufacturer.
- ⚠ The **TiTrex Suppressor** will absorb a significant amount of heat during the firing process. **To avoid injury**, allow time for the suppressor to cool or wear heat-resistant gloves.
- ⚠ **Before each use**, ensure the suppressor is properly tightened and seated against the shoulder of the barrel. The suppressor will lose alignment when not properly seated, and the shooter may experience a baffle strike and risk damage to the equipment and personal injury.
- ⚠ **Inspect the suppressor for internal obstructions** such as excessive fouling, cleaning patches, or any foreign objects before firing. A blocked suppressor can be extremely dangerous.
- ⚠ **Always wear proper personal protective equipment** when shooting firearms. Suppressors can significantly reduce the sound of gunfire but will not eliminate the sound completely. It is recommended to wear hearing protection when firing.
- ⚠ **Always verify caliber compatibility:** Prior to installation or use, verify that the host-firearm caliber is equal or less than the maximum caliber rating of the suppressor and front end suppressor attachment (front cap or brake). If you are unsure, do not install the suppressor; contact Precision Armament for assistance.

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Ammunition Guidelines

The **TiTrex Suppressor** is designed to reduce the muzzle blast and pressure wave generated when a round is fired. However, it **does not alter the bullet's speed** or interact with the projectile, meaning **supersonic ammunition will still produce a sonic crack** as it breaks the sound barrier. This sound varies with the environment but is unrelated to suppressor performance.

To minimize or eliminate this sonic crack: use **subsonic ammunition** with a **muzzle velocity below the speed of sound** [typically between 1,000–1,100 FPS, depending on temperature].

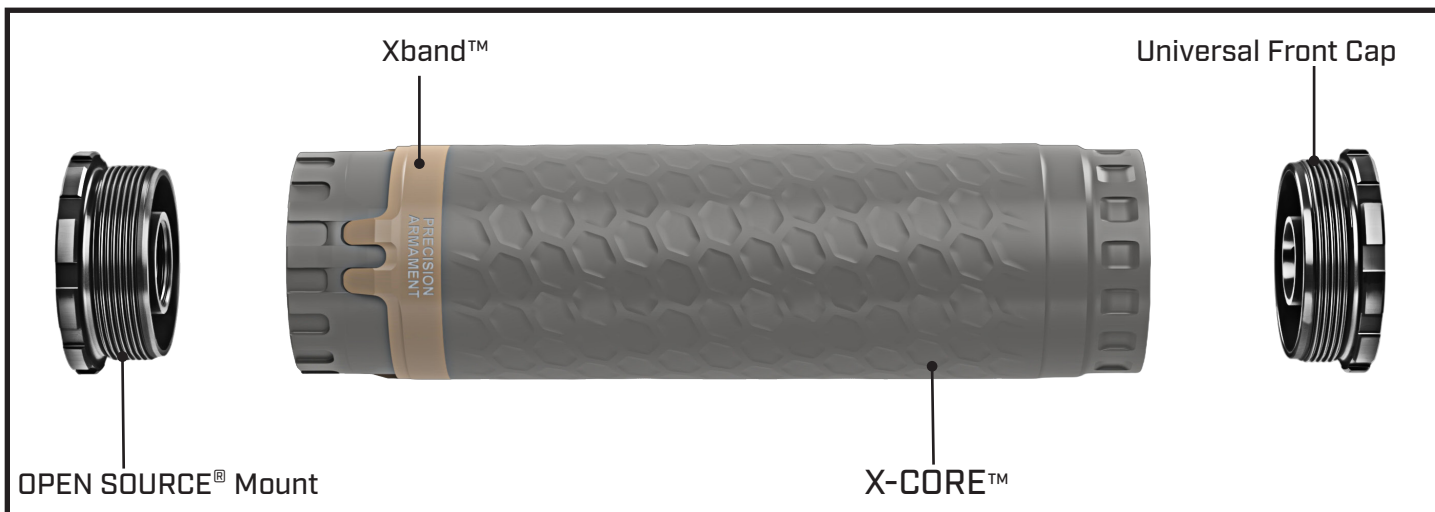
Important Ammunition Restrictions: Do not use ammunition withunjacketed or exposed lead bullets. Lead deposits cannot be effectively removed from the suppressor and may permanently affect performance.

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Product Overview

The **TiTrex suppressor** features **X-CORE™ Weld-Free Exchangeable Core Technology**, allowing the suppressor to be fully restored to factory-new condition—an unlimited number of times—without destructive cutting or rewelding. This design ensures **consistent long-term performance** and **endless serviceability**.

The **TiTrex suppressor** is a magnum-rated, multi-use suppressor engineered for everyday use, hunting, and precision shooting. It delivers lightweight performance with excellent sound suppression and repeatable accuracy—ideal for extended days in the field or at the range. It is designed for use on **bolt-action and semi-automatic rifles** and is rated for **centerfire cartridges containing less than 120 grains of powder** [for example, **.300 RUM**] with **no barrel-length restrictions**.



Key Components:

- **X-CORE Suppressor Body** — 100% 3D-Printed Titanium.
- **Xband™ Serial ID Ring** — Enables unlimited core exchanges.
- **Titanium OPEN SOURCE® Direct Thread Mount*** — Allows direct thread attachment to 5/8-24 barrels.
 - Also available in other barrel threads.
- **Titanium Universal Front Cap**** — Used to achieve maximum sound reduction.
 - Smaller caliber front caps may be used to achieve better sound performance on smaller caliber rifles.
- **K-Brake™ Ultracompact Suppressor Brake**** — Used to achieve maximum recoil reduction.
 - Smaller caliber brakes may be used to achieve better recoil performance on smaller caliber rifles.

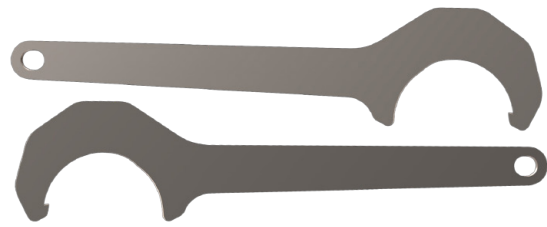


*All Titrex cores use Precision Armament's 1.375x24 OPEN SOURCE® mount interface which is cross compatible with all industry-standard HUB systems.

**All Titrex cores use Precision Armament's 1.420x24 OPEN SOURCE® front interface which is cross-compatible with SilencerCo Bravo style mounting systems.

Included Tools:

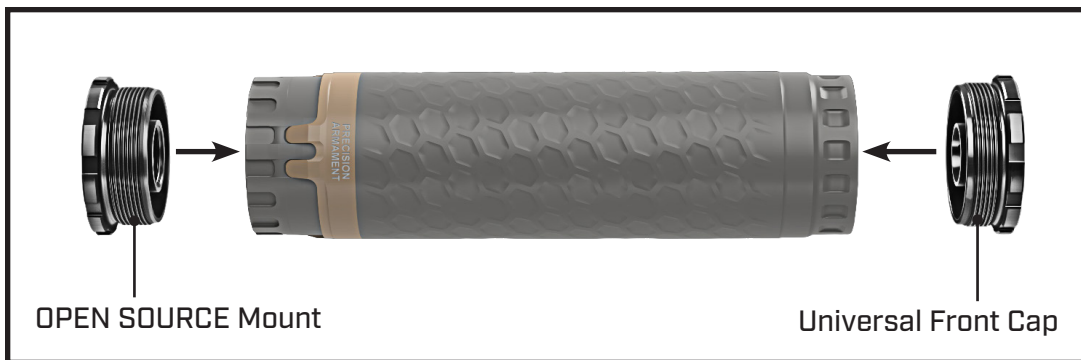
Two **OPEN SOURCE® Universal Wrenches** for proper assembly and disassembly.



OPEN SOURCE Universal Wrenches

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Assembly Instructions



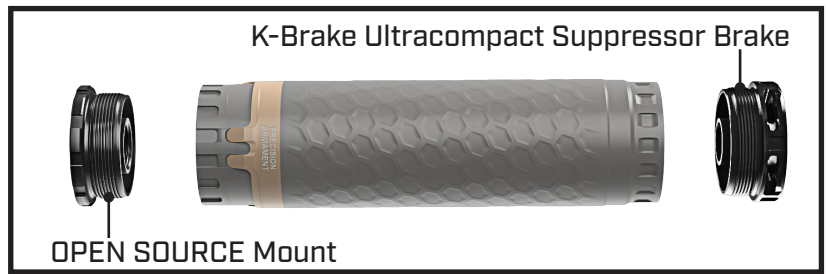
Installation & Removal of the Mount:

1. **Thread the mount onto the suppressor by hand.**
 - All TiTrex threads are standard RH.
 - Ensure threads are clean and **free of debris**.
 - It is recommended to apply a small amount of anti-seize compound to all TiTrex threads before assembly.
 - Take care to **avoid cross-threading**.
2. **Thread the Universal Front Cap or K-Brake Ultracompact Suppressor Brake onto the suppressor by hand.**

- Ensure threads are clean and **free of debris**.
- Take care to avoid **cross-threading**.

3. **Once hand tightened, use the provided wrenches** to tighten the mount and front cap into its final position.

- Apply sufficient torque [25 ±5 ft-lbs for HUB Mount] to avoid loosening during use.
- Maximizing Leverage
 - In order to maximize the leverage on the wrenches, keep them close together and offset at a distance so that one hand is able to apply clamping force as pictured.



Mounting the Suppressor to the firearm:

⚠ Before attaching the suppressor, always ensure the firearm is unloaded and the action is open.



1. With the mount installed, **align the suppressor with the barrel threads** and begin threading by hand. Make sure not to cross-thread.

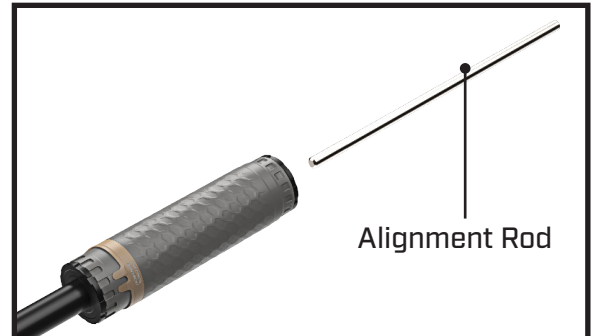


2. **Thread the suppressor onto the barrel until it is firmly seated. Once hand tightened, use one of the provided wrenches** to properly seat the suppressor body to the barrel shoulder.

3. **It is important to keep the suppressor tight against the barrel shoulder when firing.**

Thread locking compound such as Rocksett™ can be used on these threads to avoid unwanted loosening during firing. Please reference Rocksett installation instructions for best results.

4. Once installed securely, it is important to verify proper alignment. This can be accomplished by using an alignment rod that is specific to the caliber of your firearm. **If suppressor is not concentric with bore, stop use and immediately consult a qualified gunsmith.**



YES



YES



NO



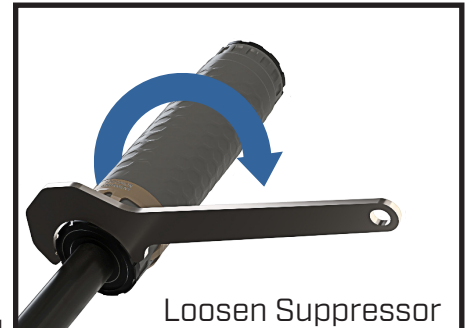
Removing the Suppressor from the Firearm:

- ⚠ **Before removing suppressor, always ensure the firearm is unloaded** and the action is open.
- ⚠ The suppressor can become **extremely hot** during and after firing. Allow adequate time for cooling, or wear heat-resistant gloves to avoid burns.

1. **Support the firearm.** Place the rifle in a stable rest or brace it securely so it cannot shift while you remove the suppressor.

2. **Loosen the mount.** Place the wrench on the mount wrench slots to break the suppressor free from the barrel.

- **Note:** placing the wrench on the suppressor body for removal can separate the core from the mount, leaving the mount on the barrel.



3. **Remove the suppressor.** Once the mount is loose, carefully unscrew the suppressor assembly by hand.

[CLICK HERE TO REGISTER YOUR SUPPRESSOR.](#)

If you have questions please feel free to reach out to us at:

(800) 724-3802 or
sales@precisionarmament.com



Engineered to Evolve

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Maintenance Instructions

The Titrex Suppressor requires limited maintenance. The high pressures and temperatures of centerfire cartridges burn off most carbon and residue build up inside the core, making them largely self-cleaning. Care should be taken to regularly keep the suppressor thread interfaces clean. Periodic inspection and maintenance will ensure long-term performance and safety.

1. Internal Maintenance:

- Inspect the suppressor regularly for **carbon buildup and fouling**.
- Clean mounting surfaces and threads with a **standard firearm solvent** and a soft **nylon or brass brush**.

Do NOT push cleaning patches through the bore.

Patches may become lodged and cause catastrophic failure when the firearm is fired.

- If necessary, pass a **cleaning brush** (no patches) through the bore to dislodge fouling.

2. External Cleaning & Finish Care:

- Wipe down the exterior with a firearm-specific cleaner, and reapply a light layer of your choice of firearm lubricant.
- Most **rust-preventative firearm oils are safe** but may **darken or alter the finish** of the product.

Important Cleaning Warnings:

- **Always use standard firearm** cleaners and lubricants to avoid damage to the finish and substrate.
- Avoid cleaners containing chlorinated solvents, ammonia, or acids, which may damage titanium.
- Many solvents are **toxic and flammable**.
 - Work in a **well-ventilated area**
 - **Wear gloves and eye protection**
 - **Keep solvents away from heat and flames**



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Core Exchanges and Upgrades

TiTrex Exchange & Upgrade Policy

Engineered to Evolve—Backed for Life

Whether your suppressor has endured years of use, sustained field damage, or you simply want the latest performance upgrades, our patent-pending X-CORE technology makes it possible. Rather than being tied to a suppressor with a fixed lifespan, you can return it directly to Precision Armament and receive a factory-new, current-generation replacement—without the cost, delay, or paperwork of a new purchase. This unique capability protects your investment and ensures your TiTrex Suppressor continues to deliver cutting-edge performance for life.



Core Exchange Instructions

1. Order the Replacement Core

Online:

- Visit precisionarmament.com/core_replacement
- Select the correct model and your preferred core options.
- Upload the ATF documentation associated with your original suppressor purchase.
- Complete checkout and save your order confirmation number—you will need it when shipping your core.

By Phone:

- Call **(800) 724-3802** (toll-free).
- A support representative will guide you through the process to initiate your core exchange.

2. Prepare your Core for Shipment

- Ship **only** the core assembly with the serialized component attached. Do **not** include mounts, front caps, brakes, or wrenches.

- Never attempt to remove or modify the serialized component, as this will void your warranty and service eligibility.
- If the core is no longer whole due to damage, include all recoverable pieces with your return.
- Securely pack the core in a sturdy box with sufficient cushioning to prevent damage in transit. Original packaging is not required.
- Include a copy of the applicable ATF documentation and a note with your order confirmation number, name, and phone number inside the package.

Note: Because your suppressor's serialized component is reused, no new NFA paperwork or tax stamp is required. You may ship the core directly to Precision Armament without involving an SOT dealer.

3. Ship to Precision Armament

- Select a carrier of your choice and insure the shipment for the value of the suppressor to protect against loss or damage in transit.
- Use a trackable service **with signature confirmation**; retain the tracking number and shipping receipt until the exchange is complete.
- Clearly write your core exchange **Order #** on the Repairs Department line of the shipping label and include it on the packing slip inside the box.
- Ship to:

Precision Armament
Repairs Department, Order # _____
4110 Niles Hill Road
Wellsville, NY 14895

4. Turnaround & Return Shipping

- Typical turnaround is two business days from the date we receive your core.
- Once processing is complete, your replacement core — bearing your original serial number — will be returned to you.
- Tracking information will be sent by email once the replacement core has shipped.

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Warranty

PRECISION ARMAMENT FULL LIFETIME GUARANTEE

Engineered to Evolve. Guaranteed to Perform.

At Precision Armament, we take pride in every product we make. If any Precision Armament product is ever found to have a defect in materials or workmanship, we will, at our option and at no cost to you, repair or replace it—even if you're not the original owner.

There are no time limits, no warranty cards, and no unnecessary paperwork—just our commitment that your suppressor will perform as intended.

What's Covered

- Defects in materials or workmanship that result in failure under normal use
- Manufacturing or assembly errors that compromise function or performance
- Premature component failure not attributable to normal wear or misuse
- Repairs or replacements performed by Precision Armament at our discretion
- Return shipping, both ways, on all approved warranty repairs

What's Not Covered

- Wear, erosion, or heat-related degradation of the core resulting from normal use
- Rust or corrosion
- Damage caused by ammunition defects, host firearm malfunctions, or bore obstructions
- Damage caused by improper or careless handling
- Unauthorized repairs, alterations, or modifications
- Improper installation, handling, or storage



TiTrex suppressors are built around our **X-CORE Exchangeable Core Technology**, which allows the internal core—a consumable, high-performance component—to be replaced or upgraded when worn or damaged.

With this system, there’s virtually no such thing as “out of warranty.” Even if damage falls outside this guarantee, you can replace the entire core through our **Core Exchange Program** at a fraction of the cost of a new suppressor—quickly, cleanly, and without additional paperwork.

WARRANTY CLAIMS

If you believe your **product qualifies for warranty service**, please reach out to our Customer Service team—we’re here to help and make it right. A representative will walk you through the process, answer any questions, and issue a **Return Merchandise Authorization (RMA)** number to ensure your return is handled quickly and correctly.

Contact Information

- **Toll-Free (U.S.):** 800-724-3802
- **Email:** sales@precisionarmament.com

Return Address

Precision Armament
Repairs Department, RMA # _____
4110 Niles Hill Road
Wellsville, NY 14895

LIMITATION OF LIABILITY

Precision Armament products are designed and manufactured to the highest standards of quality and reliability. However, **Precision Armament disclaims all liability** for product malfunctions, personal injuries, or property damage resulting from **criminal, negligent, or improper use**, or from **modifications or alterations** of the product.

Precision Armament assumes no responsibility **for damage to firearms, accessories, or other equipment, or for property damage, personal injury, or death** resulting from careless handling or use contrary to the **recommendations and warnings** in this manual.

In no event shall Precision Armament be liable for any **incidental, special, or consequential damages** related to the **purchase, use, or performance** of any Precision Armament product.



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Legal Warning

Suppressors are regulated under the National Firearms Act (NFA) and Gun Control Act (GCA). Ensure compliance with all federal, state, and local laws. Export is strictly prohibited without proper U.S. State Department authorization under ITAR. Always maintain a copy of your approved BATF Form with your suppressor.

Unmatched Service Life



Have questions?
Please contact Customer Support at
(800) 724-3802 or email us at sales@precisionarmament.com

