

SILENCER_{CO}

OCTANE

FIELD MANUAL



Warning

Failure to follow installation and maintenance instructions detailed in this manual may result in serious personal injury and damage to the firearm. Do not attempt to use this product unless you have specific training and experience in the use of firearms.

Because suppressed firearms make less noise than unsuppressed firearms, it is easy to forget that they are still firearms and capable of causing bodily injury and

property damage. Remember, a suppressed firearm should be treated with the same safety and caution as an unsuppressed firearm.

Firearm silencers are user-attached firearm muzzle devices, and as such are subject to improper attachment issues unless the procedures outlined in this manual are followed precisely.

Before installing the silencer on the host firearm, be sure that the firearm is unloaded and the action is opened so that the firearm is visibly clear of any ammunition. If you are at all unsure as to the proper procedures to ensure that your firearm is unloaded, please consult your firearm user's manual/instructions and/or contact a properly licensed dealer or the manufacturer or gunsmith of your firearm.

Check the fit between barrel and silencer before firing! The thread mount must be fully shouldered on the barrel. There should be no visible gap between the barrel shoulder and the face of the silencer thread mount. Poor accuracy and product damage may result if the silencer is not properly shouldered.

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Warning

Silencers must be free of obstructions such as mud, dirt, etc. DO NOT attempt to shoot through an obstructed silencer. If submerged in water, the user must allow sufficient time to drain the silencer completely.

The silencer is designed to suppress the initial muzzle blast and subsequent projectile de-corking pressure. The silencer doesn't contact or otherwise interact with the

bullet, allowing the projectile to travel at its default speed. Because of this, a sonic crack may be produced by the projectile as it breaks the sound barrier.

Depending on the geography of the area, the sonic crack may vary in volume. This is solely a function of the projectile breaking the sound barrier and is not related to product performance.

To ensure your silencer remains secure while firing, it is of the utmost importance that you frequently verify the silencer is securely tightened onto the barrel. We recommend checking the security of the attachment after 30 discharges of the firearm.

Before removing the silencer from the host firearm, be sure that the firearm is unloaded and the action is opened so

that it is visibly clear of any ammunition. When removing the silencer, use extreme caution as it may be hot to the touch after firing. Use heat-resistant gloves to avoid burns or other injuries. Once the silencer is removed from the host firearm, SilencerCo recommends using a thread protector or other muzzle device to protect the muzzle threads and crown, during storage or transport.

Overview & Product Specs

Excellent pistol and subgun suppression. User serviceability with increased caliber versatility. Offering premium performance at an affordable price point.

Visit [SILENCERCO.COM](https://www.silencerco.com) for further information



OCTANE 9

CALIBERS

9MM &
300 BLK
Subsonic

MATERIALS

Stainless Steel,
Aluminum

LENGTH

7.50"

WEIGHT

9.0 - 12.2 oz

DIAMETER

1.40"



OCTANE 45

CALIBERS

9MM to 45ACP
& 300 BLK
Subsonic

MATERIALS

Stainless Steel,
Aluminum

LENGTH

8.50"

WEIGHT

10.0 - 13.3 oz

DIAMETER

1.40"

Mounting Options

For optimum performance and to avoid damage to your silencer, SilencerCo recommends using only SilencerCo mounts and accessories.

Whichever way you choose to mount your silencer to your firearm, you should take care to ensure that the Octane is mounted securely before firing. SilencerCo offers mounts in all common barrel thread patterns. Users must ensure

they are using the proper mounts that match their barrel threads and that there is a proper shoulder for the mount to seat against. Following these instructions will help to prevent the problems and dangers that can arise from improper installation.

Direct Thread Mount



ALPHA DIRECT THREAD MOUNT

ASR Mount



ANY ASR MUZZLE DEVICE



ALPHA ASR MOUNT

Piston Mount



SPRING RETAINER



SPRING OR
FIXED BARREL SPACER



PISTON

3-Lug Mount



3-LUG MUZZLE DEVICE



3-LUG MOUNT



Octane

All mounting systems can be used with the Octane 9 and Octane 45.



OCTANE 9 BAFFLE STACK



OCTANE 45 BAFFLE STACK



OCTANE FRONT CAP

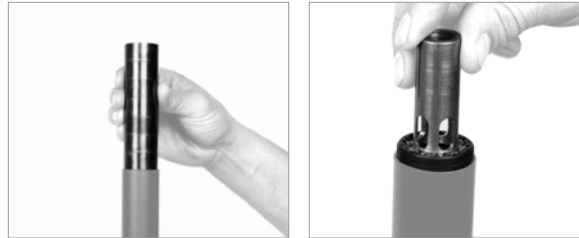
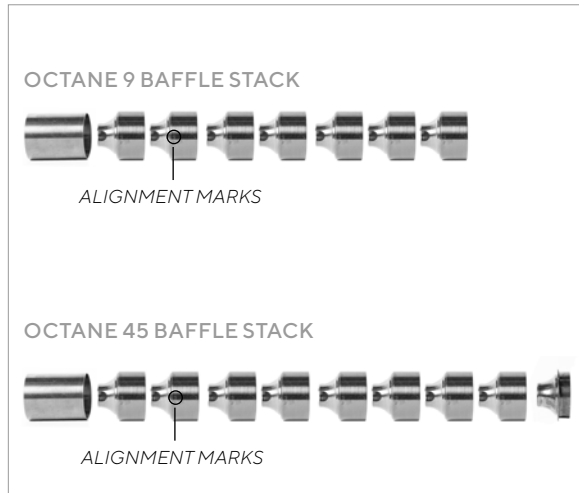


Assembly & Disassembly

Align all baffles facing the same orientation and click together to create a baffle stack. Baffles are all the same (except for Octane 45, which has one shorter baffle) and can be assembled in any order.

For best performance, use the alignment marks on the outside of the baffles to ensure the cutouts on the baffles are properly oriented.

Snap the expansion chamber onto the exposed cone end (not flat end) of the baffle stack so that the ridge inside the expansion chamber is closest to the cone.



Slide baffle stack with attached expansion chamber into the silencer tube, expansion chamber first, until it stops against the piston housing inside the tube.

Twist front cap onto silencer; hand tighten with the sprocketed end of piston. For extra leverage, insert a screwdriver through piston holes and twist.

To disassemble, perform steps in reverse order.

Direct Thread Mount *QUICK REFERENCE*



Fixed Barrel Spacer for Left-Hand Threads

If your host firearm has a fixed barrel AND left-hand threads, it may be beneficial to use a piston mounting method rather

than a Direct Thread Mount. See **Piston Mount** for more information.



The Alpha Direct Thread Mount is recommended for use on firearms that are equipped with a fixed barrel.

Insert the Alpha Direct Thread Mount into the rear of the silencer and tighten down with provided tool.

Align back of silencer with the threaded barrel of host firearm; hand tighten until it is seated securely against the shoulder of your barrel.

READY FOR USE

To remove, perform steps in reverse order.

ASR System *QUICK REFERENCE*



ANY ASR
MUZZLE DEVICE



ALPHA
ASR MOUNT



OCTANE
9 or 45

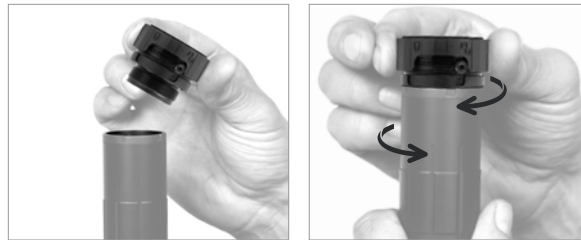
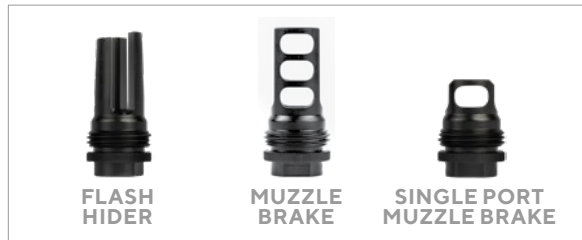
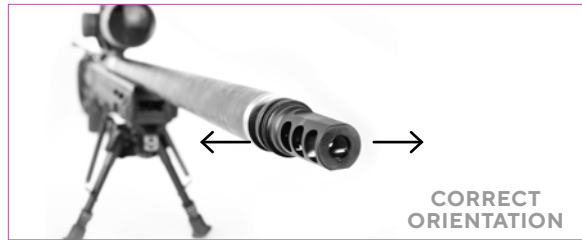


OCTANE
FRONT CAP

ASR System

MUZZLE DEVICES

Thread the ASR muzzle device onto the barrel. Use the provided shim kit to ensure proper ASR muzzle brake alignment. Timing with shims is not necessary on ASR flash hiders. Tighten onto barrel using the wrench flats at the rear of the brake. Use of Rocksett™ or another high-temp threadlocker is recommended to secure the muzzle device. Muzzle devices should be tightened to approximately 20-30 ft-lbs.



ASR MOUNT

Thread on the ASR mount body. Use one of the included spanner wrenches to hold the Octane body and the other to tighten the ASR mount body to approximately 20-30 ft-lbs. To remove, perform steps in reverse order.



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ASR System *CONTINUED*

Verify the ASR collar is in the unlocked position before installing. Install the Octane by sliding the back end over the muzzle device, then screw the silencer onto the muzzle device until it stops (hand tight, approximately 10-15 ft-lbs.). Rotate the ASR collar to the locked position.

READY FOR USE

To remove, perform steps in reverse order.



The ASR (Active Spring Retention) Mount is a proprietary quick-attach/detach mounting system. It features a secondary locking collar, which ensures the silencer does not back off during normal use due to shock and vibration from firing and transport. It requires a compatible muzzle device (muzzle brake or flash hider). SilencerCo recommends the use of the included shim kit if any indexing of the muzzle device is required. Crush washers are NOT recommended as they do not crush uniformly and WILL cause improper mounting and potential silencer damage. For proper alignment, it is essential that the muzzle device seats against a 90° barrel shoulder.

Piston Mount *QUICK REFERENCE*

Spring vs. Fixed Barrel Spacer

When using a piston to attach your silencer to a firearm with a fixed barrel, (most pistol caliber carbines), a fixed barrel spacer **MUST** be used in lieu of the spring.

If your host firearm has a fixed barrel AND left-hand threads, it can be beneficial to use a piston and fixed barrel spacer rather than a direct thread mount. The piston's tooth engagement with the silencer will ensure tightening left-hand to the host firearm cannot simultaneously loosen the right-hand threads of the mount itself.



Piston Mount *CONTINUED*

Place spring or fixed barrel spacer over piston and seat into spring retainer. Insert the assembly into the rear of the silencer; tighten until securely seated.



Align back of silencer with the threaded barrel of host firearm; hand tighten until it is seated securely against the shoulder of your barrel.

READY FOR USE



3-Lug QUICK REFERENCE



3-LUG MOUNT

Use of 3-Lug mounts will require both the mount and an appropriate muzzle device. Screw the 3-Lug mount into the back of the silencer without spring. Tighten with provided 3-pin wrench.

3-LUG MUZZLE DEVICE

Thread the appropriate 3-Lug muzzle device onto the barrel threads and tighten to approximately 10-20 ft-lbs. For proper alignment, it is essential that the muzzle device seats against a 90° barrel shoulder.

Depending on the thread pattern, some muzzle devices will shoulder on the nose of the barrel.

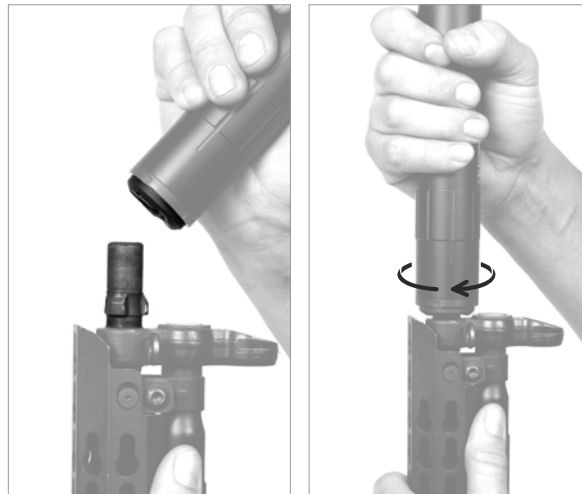
3-Lug *CONTINUED*

MOUNTING TO THE FIREARM

Place the silencer with the 3-Lug mount over the 3-Lug muzzle device, aligning the lugs with the cutouts. Compress the silencer against the muzzle device, turn the silencer body 60 degrees, then release. Pull on the silencer to ensure it is securely mounted before firing.

READY FOR USE

To remove, perform steps in reverse order.



WARNING You must use only 9mm muzzle devices with 9mm 3-Lug mounts and 45 muzzle devices with 45 3-Lug mounts. While a 9mm muzzle device will fit inside the 45 3-Lug mount, there is excessive clearance between them. This will cause blowback towards the shooter and will greatly increase

the chance of silencer damage due to potential misalignment of the mount to muzzle device.

WARNING A 45 caliber projectile will not fit down the bore! Use 9mm or smaller **ONLY**.

Maintenance

The Octane is designed to be easily maintained by the user. It is recommended that the silencer and its individual components be disassembled and cleaned at regular intervals, or whenever the silencer is shot “wet”. Shooting “wet” implies that water or a lubricant (5cc’s or less) has been placed inside the silencer as a way to aid in the cooling of gases and increase sound suppression. Each component has a suggested method for cleaning.

OUTER TUBE

The aluminum tube, front cap, and spring retainer should NOT be soaked in chemicals or used in an ultrasonic cleaner due to the potential for damage to the finish and the **potential to erase the serial number** due reaction with the aluminum tube. We recommend using a damp cloth or non-abrasive brush to gently wipe or scrub away debris.

BAFFLES

Disassemble the Octane as listed in the instructions and clean using the following suggested products. Dry all components thoroughly before reassembling. If using a water-based cleaner, be sure to lightly coat the baffles with oil or other corrosion-resistant product after cleaning.

SCRUBBING

Various gun cleaning solvents and general CLP (cleaner/lubricant/protectant) gun oils can be used to help break up the fouling on your baffles. Utilizing a nylon brush,

q-tips, and rags or paper towels, etc, you can successfully clean your baffles with some time scrubbing. Don’t use hard metal tools to scrape lead and carbon off your components as you may damage the metal. Abide by the safety precautions previously mentioned in this manual regarding lead at all times. Dispose of leaded materials in accordance with your local laws.

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Maintenance *CONTINUED*

BLASTING

Blasting with soda media is an excellent way to clean baffles and other components. A blast cabinet or handheld soda blaster is required for this method. DO NOT blast parts with glass bead, aluminum oxide, or other hard media; this will etch and damage your components. Note that your media will become exposed to lead during this process. Good containment, ventilation, gloves, and a breathing mask should be used to protect yourself and those around you

from lead particulates that become airborne. Dispose of contaminated blast media appropriately and in accordance with local, state, and federal regulations.

ULTRASONIC CLEANING

Ultrasonic cleaning is a 50/50 mix of water and “Purple Power” cleaner and works very well for cleaning baffles. Do NOT use this method on outer tube. Note that this solution will contain lead. Dispose of appropriately and in

accordance with local, state, and federal regulations. DO NOT dump it down the drain or outside.

PISTON ASSEMBLY

To clean the piston assembly, remove from the silencer and disassemble. Use an abrasive brush or pad and solvent to scrub away carbon buildup. Do not use sand paper as it could ruin the finish and cause malfunction.

PISTON HOUSING

To clean the piston housing, insert a screwdriver or other scraping tool and dislodge any large debris.

O-RINGS

Inside the indexing ring of the spring retainer is an O-Ring, which seals the gases from escaping the silencer when the piston is actuated during firing. To maintain, use white lithium grease, break free, or light gun oil. The O-Ring will need to be replaced once you notice a substantial amount of wear and tear after heavy use or after breakage occurs. To replace, simply disassemble the booster and insert a new Viton Size-018 O-Ring into the groove on the inside of the spring retainer, directly under the threads.

Limited Lifetime Warranty

Silencerco, LLC (“**SilencerCo**”) warrants to you that if any product sold by SilencerCo and used for its intended use ever becomes defective, SilencerCo will repair or replace the product at no charge, other than shipping, subject to the conditions set forth below.

THE WARRANTY EXTENDS ONLY TO THE ORIGINAL REGISTERED PURCHASER. This warranty does not cover damage to our products or host firearm resulting from careless or irresponsible handling adjustments or modifications to its intended design, negligence, or other unforeseeable abuse. SilencerCo assumes no liability for unsafe or illegal use of the silencer by its purchaser or any other user that comes in contact

with the product after purchase. SilencerCo assumes no responsibility for physical injury or property damage resulting from careless or irresponsible handling or by any use contrary to the recommendations, warnings and cautions generally listed in this manual. SilencerCo does not cover damage to the silencer or host firearm resulting from improper “*hand-loaded, reloaded, previously used or otherwise defective ammunition.*” **THIS WARRANTY IS FURTHER REGULATED BY RELEVANT AND APPLICABLE STATE AND FEDERAL LAWS.**

If SilencerCo determines that you satisfy the conditions for warranty coverage under this limited warranty, SilencerCo will, at no charge, replace or repair the SilencerCo product

with the same or similar model subject to the terms herein. If no replacement is available, and SilencerCo determines that the product cannot be repaired, SilencerCo will replace your nonperforming or defective unit with a unit that, in SilencerCo’s sole determination, is substantially similar to your lawfully purchased and registered product. This warranty extends to any and all parts as originally sold by us, but **does not extend to any altered product or firearm that is altered or rebuilt after original purchase, damaged through abuse, misuse through lack of proper care and maintenance, or used other than for its legal intended purposes.**

SILENCERCO’S LIABILITY FOR BREACH OF ANY WARRANTY WITH RESPECT TO A SILENCERCO

PRODUCT SHALL BE LIMITED TO REPLACING OR REPAIRING THE NONPERFORMING OR DEFECTIVE PRODUCT AS DESCRIBED IN THIS LIMITED WARRANTY. THIS LIMITED WARRANTY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY WITH RESPECT TO A NONPERFORMING OR DEFECTIVE PRODUCT, AND SILENCERCO WILL NOT BE LIABLE FOR ANY OTHER DAMAGES, INCLUDING DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR DIMINUTION IN VALUE DUE TO REPAIR OR REPLACEMENT WITH A DIFFERENT PRODUCT.

For assistance with repairs, please contact our consumer service department at **801-417-5384**.

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Protect Your Rights | Protect Your Hearing

The American Suppressor Association is fighting to protect and expand your silencer rights. Join the fight today!

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**FOR QUESTIONS, CONTACT OUR CUSTOMER SERVICE TEAM
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