

SILENCER<sup>CO</sup>

**OSPREY 2.0**

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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 the firearm is unloaded and the action is opened so the firearm is visibly clear of any ammunition. If you are at all unsure as to the proper procedures to ensure 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** *CONTINUED*

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.

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 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.

## **Ammunition Selection**

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.

If desired, sonic crack can be avoided with the use of subsonic ammunition. Subsonic ammunition can be identified by a muzzle velocity that does not exceed the speed of sound. The speed of sound in an environment increases with temperature, and ranges between 1000 feet per second (at approx -40°F/-40°C) and 1200 feet per second (140°F/60°C).

## Overview & Product Specs

The Osprey's unique shape make it the only multi-caliber polygonal pistol silencer on the market. The monocoire baffle design in a polygonal package allows for greater internal volume and therefore better sound performance. The Osprey utilizes a push button locking system for quick indexing. This system allows the majority of the suppressor to sit below the shooter's line of sight, thereby not impeding standard pistol sights.

The Osprey 2.0 was designed to be used "wet" or "dry." Shooting "wet" temporarily improves sound suppression by inserting a small amount of ablative media. This can be done by inserting about 5cc's (or a typical water bottle cap full) of clean water or clear wire pulling gel into the back of the silencer.

*\*Weights include spring and retainer. Spring and retainer account for 1.3oz*



**OSPREY 45 2.0**

### CALIBERS

9MM to 45ACP &  
300 BLK Subsonic

### MATERIALS

Aluminum &  
17-4 Stainless Steel

### LENGTH

7.90"

### WEIGHT

9.2 oz\*

### DIAMETER

1.30 X 1.75"



**OSPREY 9 2.0**

### CALIBERS

9MM &  
300 BLK Subsonic

### MATERIALS

Aluminum &  
17-4 Stainless Steel

### LENGTH

6.90"

### WEIGHT

8.8 oz\*

### DIAMETER

1.30 X 1.75"



**INDEXING BUTTON**  
SAME ON BOTH MODELS

## Assembly *QUICK REFERENCE*



## Assembly

### PISTON INSTALLATION

You will need to install a piston (not included) for the Osprey 2.0 to be compatible with most pistol hosts. Pistons are available in all popular thread patterns to adapt to your pistol.

A Fixed Barrel Spacer (not included, part number AC22) should be used in place of the spring if the piston mount is used on a pistol-caliber firearm with a fixed barrel. Otherwise damage to the piston can occur.

Press the button and unscrew the spring retainer (using the supplied Alpha Pistol Tool) from the rear of the Osprey 2.0 and remove the spring from the silencer body. Place the spring over your piston.

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Slide the smooth, toothless end into the spring retainer. While pressing firmly on the spring retainer, rotate the indexing ring around the piston until the three teeth on the ring align with the grooves on the piston.

Once aligned, press together tightly. Place the assembly back into Osprey 2.0. Hold the button down and hand tighten the assembly into the silencer body, then tighten using the supplied Alpha Pistol Tool.

To remove, perform steps in reverse order.



## Assembly

### MOUNTING TO THE FIREARM

After confirming your firearm is unloaded, thread the silencer onto the barrel until no additional barrel threading is visible. Hand tighten only.

*Depending on the thread pattern, some pistons will shoulder on the nose of the barrel.*

To index the silencer, press and hold the button, rotate the silencer to the desired orientation, then release the button. Next time you attach the Osprey 2.0 to the host weapon, it will return to the desired orientation.

When unthreading, DO NOT push the button as this will cause threads to strip.

**READY FOR USE**

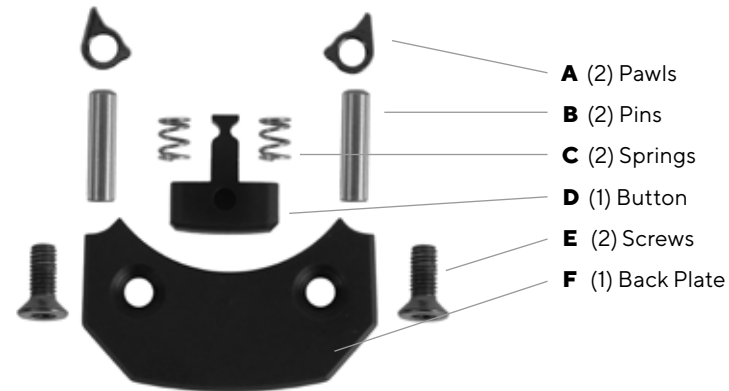
## Servicing the Piston Assembly

The piston assembly should be cleaned regularly. Remove the assembly and disassemble all parts. Using a scrubbing brush and cleaner, remove all carbon and build up. When finished, apply white lithium grease to the O-Ring inside the spring retainer, reinsert the piston assembly into the back of the silencer.

Never use hard abrasives such as sand paper or aluminum oxide blast media to clean your silencer components as this can ruin the finish and precise tolerances of your silencer, resulting in malfunction and further damage. If the assembly is difficult to remove, thread the Osprey 2.0 back onto the host weapon, hold the indexing button

down, and rotate the Osprey 2.0 back and forth. This will loosen some of the carbon build up, making it easier to remove the assembly from the silencer. After rotating the silencer back and forth for a few seconds, release the indexing button, detach the Osprey 2.0, and continue disassembly.

## Indexing System *QUICK REFERENCE*



## Indexing System *CONTINUED*

The indexing assembly should be regularly disassembled and cleaned.

### DISASSEMBLING THE INDEXING SYSTEM

Remove the piston assembly using the provided Alpha Pistol tool.



Unscrew and remove the two M3 x 0.5 torx screws from the back plate.

Remove the back plate.

*If the assembly is difficult to remove, apply a small amount of solvent to break up the carbon.*

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Observe the position of the indexing system as it looks right now. You will want to ensure this system looks exactly the same once reassembled.

The pawls must lie completely flat, with the sharp point inserted into the piston assembly. The blunt, round protrusion must lay perfectly in line with the indent of the button. It is important that these pawls are assembled correctly since they are the driving force behind the function of the indexing button.

If reassembled incorrectly, the silencer will not thread onto the barrel.



Now that you've seen the correct assembly, remove the button. Be careful not to lose the two springs, as they are loose and may fall. Remove the two pawls and pins. A magnet can be useful in disassembling these small parts.

Clean all parts using a scrubbing brush and cleaner. Never use hard abrasives such as sand paper or aluminum oxide blast media to clean your silencer components as this can ruin the finish and precise tolerances of your silencer, resulting in malfunction and further damage.

DO NOT lubricate the indexing system. Ensure all parts are dry before assembling. Reverse steps to reassemble.

# Maintenance

## O-RING

Inside the indexing ring/spring retainer is an O-Ring, which seals the gases from escaping the silencer when the piston is actuated during firing. It should be noted that the Osprey 2.0 will function without the O-Ring, but it is necessary to achieve the most effective sound suppression.

The O-Ring will need to be replaced once you notice a substantial amount of wear or breakage. At this point,

simply disassemble the piston assembly and insert a new O-Ring into the groove on the inside of the spring retainer, directly under the threads.

Regularly lubricate the O-ring with white lithium grease to ensure reliable operation and accuracy.

The Osprey 2.0 uses a Viton size-018 O-Ring available on our website (AC88)

## SILENCER

Aside from the piston assembly and mounting surfaces, the Osprey 2.0 does not require regular maintenance.

The Osprey 2.0 has a substantial amount of internal volume and will perform well beyond the expected life cycle of the firearms you will put it on without cleaning the baffles.

Do not completely submerge in chemical cleaner or use an ultrasonic cleaner, as this has the potential to damage the silencer.

**CAUTION** *Always read the warning label on any cleaner or solvent, and remember that virtually all cleaning chemicals and solvents are inherently dangerous and potentially toxic. Always use adequate ventilation and both skin and eye protection when using solvents.*

## 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.**

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

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AT 801.417.5384 OR INFO@SILENCERCO.COM**

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