

SILENCER<sup>CO</sup>

**OMEGA 36M & HYBRID 46M**

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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 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 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).

Do not use ammunition with unjacketed lead bullets. Exposed lead projectiles will deposit lead inside your silencer and cannot effectively be removed.

## Overview & Product Specs

The Omega 36M and Hybrid 46M are light, compact, modular centerfire rifle suppressors, with the versatility to use on magnum rifles, pistols, and subguns. Both silencers are full-auto rated and modular.

The Omega 36M is compatible with centerfire rifle cartridges from 22 Hornet to 338 Lapua Magnum, and centerfire pistol cartridges up to 9mm.

The Hybrid 46M is compatible with centerfire rifle cartridges from 5.56 NATO to .45-70 GOV, and centerfire pistol cartridges up to .45ACP.

### BARREL LENGTH RESTRICTIONS

The 36M and 46M are rated for barrels as short as 10" for .223 Remington/5.56mm NATO, 16" barrels for .308 Winchester/7.62mm NATO, and 18" barrels for .300 Winchester Magnum and .338 Lapua Magnum.

Additionally, the Hybrid 46M is rated down to 16" barrels for 45-70 and 458 SOCOM. The Hybrid is rated down to 18" barrels for all magnum calibers up to 338 Lapua Mag.



**HYBRID 46M**

### CALIBERS

Pistol – 9MM to 45ACP

Rifle – 5.56 NATO to 45-70 GOV

### MATERIALS

17-4 Stainless Steel,  
Titanium, & Inconel

### LENGTH

6.0 - 8.5"

### WEIGHT

11.04 - 18.7 oz

### DIAMETER

1.57"



**OMEGA 36M**

### CALIBERS

22 Hornet to 338 LM

### MATERIALS

17-4 Stainless Steel,  
Titanium, Cobalt 6,  
& Inconel

### LENGTH

5.1 - 7.6"

### WEIGHT

9.2 - 16.5 oz

### DIAMETER

1.57"

### Direct Thread Mount



COUPLER RING



CHARLIE DIRECT THREAD INSERT



### ASR Mount



MUZZLE DEVICE



CHARLIE ASR MOUNT BODY



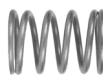
TAPERED INSERT



### Piston Mount



SPRING RETAINER



PISTON SPRING



PISTON



COUPLER RING



CHARLIE PISTON HOUSING



### 3-Lug Mount



3-LUG MUZZLE DEVICE



3-LUG MOUNT



COUPLER RING



CHARLIE PISTON HOUSING



**36M or 46M**

*EITHER LENGTH*



CHARLIE FRONT CAP

Front Caps of various bore sizes, and of other special-purpose designs are available.

## Assembly & Modularity

### LENGTH CONFIGURATION

SilencerCo's first modular rifle silencer — the Omega 36M — is two configurations in one. The Hybrid 46M closely follows in the 36M's footsteps — with the addition of large bore calibers up to .45 - 70 GOV.

On both silencers, the front baffle section can be removed to minimize weight and length, or retained for maximum sound suppression. Tool slots ensure easy removal with existing SilencerCo Charlie tools (shipped with your silencer). The front cap must be used and secured tightly with a tool in either length.



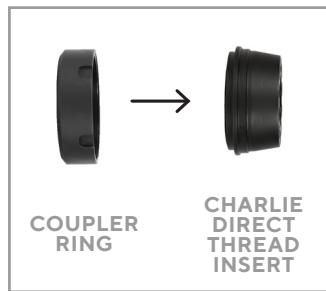
## Mounting Options

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 your silencer 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.

If you attempt to remove the silencer from the barrel and the silencer continuously spins without unthreading from the barrel, this occurs if the coupler ring is not adequately tightened. Use the included spanner wrenches to re-tighten the coupler ring to the silencer body and then re-attempt to remove.

## Direct Thread Mount *QUICK REFERENCE*



CHARLIE DIRECT  
THREAD MOUNT  
*MANY SKUS AVAILABLE*



36M OR 46M  
*EITHER LENGTH*



CHARLIE  
FRONT CAP  
*MANY SKUS AVAILABLE*



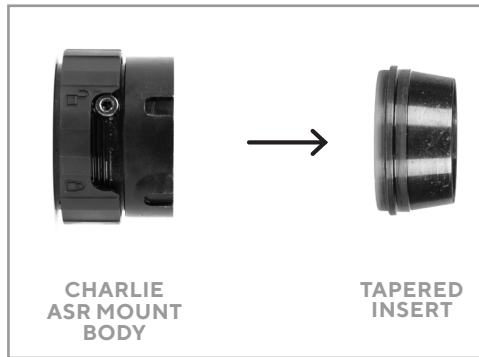
Put the direct thread insert into the silencer body and thread on the coupler ring. Use one of the included spanner wrenches to hold the silencer body and the other to tighten the coupler ring to approximately 20-30 ft-lbs. To remove, perform steps in reverse order.

Screw the silencer onto the barrel until it is properly shouldered. Hand tighten to approximately 10-15 ft-lbs. To remove, perform steps in reverse order. For proper alignment, it is essential that the mount seats against a clean 90° barrel shoulder.

## ASR System *QUICK REFERENCE*



**ANY MUZZLE DEVICE**  
*MANY SKUS AVAILABLE*



**CHARLIE  
ASR MOUNT  
BODY**

**TAPERED  
INSERT**

**CHARLIE ASR MOUNT**  
*AC622*



**36M OR 46M**  
*EITHER LENGTH*

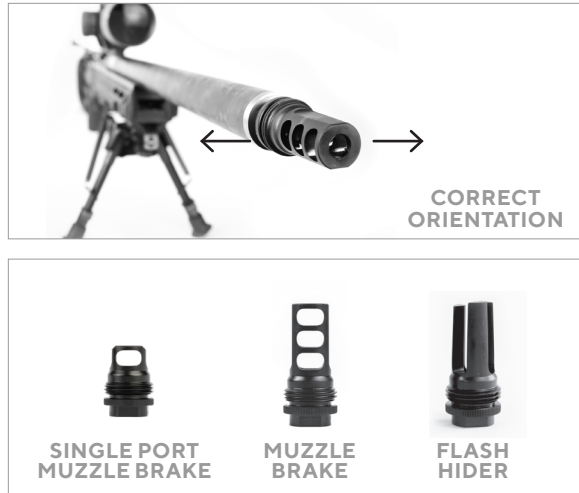
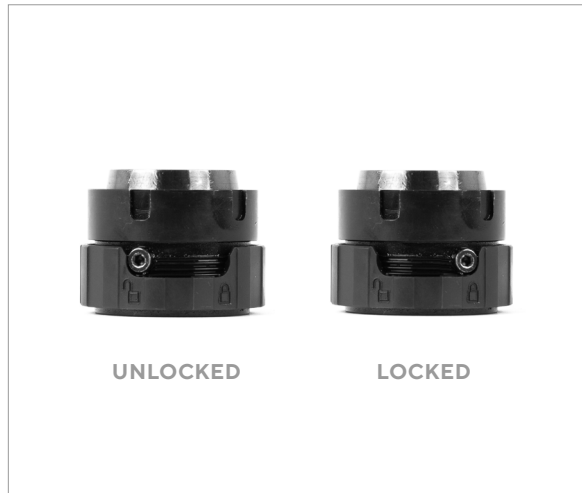


**CHARLIE  
FRONT CAP**  
*MANY SKUS AVAILABLE*



## ASR System

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.



### 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 Rockset™ or another high-temp threadlocker is recommended to secure the muzzle device. Muzzle devices should be tightened to approximately 20-30 ft-lbs.

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## ASR System *CONTINUED*

### ASR MOUNT

Install the tapered insert into the silencer body and thread on the ASR mount body. Use one of the included spanner wrenches to hold the silencer and the other to tighten the ASR mount body to approximately 20-30 ft-lbs. To remove, perform steps in reverse order.



Verify the ASR collar is in the unlocked position before installing on your firearm. Install the silencer by sliding the back end over the muzzle device, then screw the silencer onto the muzzle device until it is firmly seated against the shoulder.

Rotate the ASR collar to the locked position until the closed padlock icon aligns with the set screw. To remove, perform steps in reverse order.

## Piston Mount *QUICK REFERENCE*



## Piston Mount *CONTINUED*

This is the basis for the piston or 3-Lug mounts and must be installed prior to installing either of these.

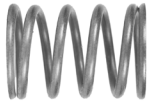
Insert the piston housing as shown and thread on the coupler ring. Use one of the included spanner wrenches to hold the silencer body and the other to tighten the coupler ring to approximately 20-30 ft-lbs. To remove, perform steps in reverse order.

**WARNING** The piston mount should only be used on pistol caliber firearms and 300 BLK using **subsonic** ammo. Damage may occur to the piston housing when used on high powered rifles due to the increased heat and pressure.

## **Piston** *QUICK REFERENCE*



**SPRING  
RETAINER**  
*MANY SKUS  
AVAILABLE*



**PISTON  
SPRING**



**PISTON**  
*MANY SKUS AVAILABLE*



**COUPLER  
RING**



**CHARLIE  
PISTON  
HOUSING**



**36M OR 46M**  
*EITHER LENGTH*



**CHARLIE  
FRONT CAP**  
*MANY SKUS AVAILABLE*

**CHARLIE PISTON MOUNT**  
*AC4751*

## Piston

Pistons are sold separately in various thread patterns to enable mounting to all common handguns. Refer to your local dealer or [silencerco.com](http://silencerco.com) to get the one you need.

Slide the piston spring, then the spring retainer over the smooth end of your piston until it passes over the O-Ring inside the spring retainer. Apply white lithium grease to the O-Ring to ensure smooth operation and easier assembly.

Once assembled, insert into the rear of your silencer with the piston mount already installed (see previous section). Tighten down the spring retainer until it's firmly seated. To remove, perform steps in reverse order.

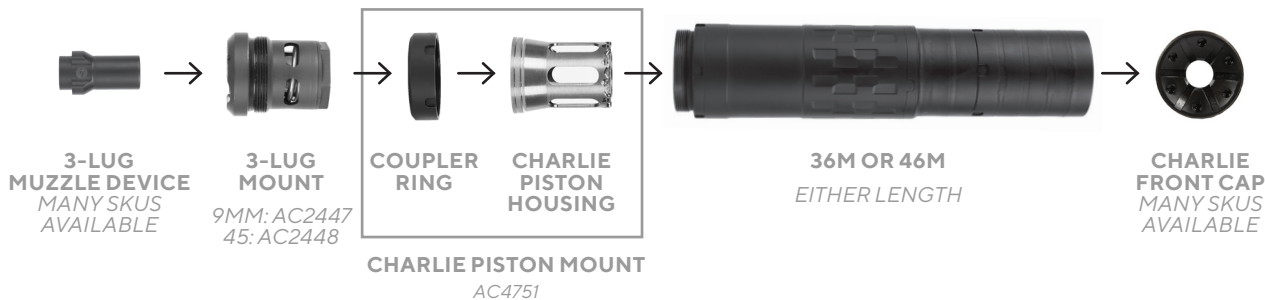


### MOUNTING ON A PISTOL

After installing the correct piston for your threaded barrel (according to the stated directions), ensure your firearm is unloaded and thread the silencer onto your pistol. Ensure it is properly shouldered before firing. To remove, perform steps in reverse order.

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

## 3-Lug Mount *QUICK REFERENCE*



## 3-Lug Mount

The 3-Lug Mount is a fast push-and-twist mount designed for centerfire pistol calibers and subsonic 300 BLK at close ranges. For high-powered rifles and long-range precision, ASR or Direct Thread Mounts should be used.

### **IMPORTANT:**

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.

## 3-Lug Mount *CONTINUED*

**WARNING** A 45 caliber projectile will not fit down the bore of the 36M! Use 9mm or smaller **ONLY**.

### 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 previously installed piston mount without piston spring. Tighten with provided 3-pin wrench.

### 3-LUG MUZZLE DEVICE

Screw 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.*

### 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 until it stops (60 degrees), then release. Pull on the silencer to ensure it is securely mounted before firing. A small amount of rotational play is normal. To remove, perform steps in reverse order.

## Front Caps

The 36M and 46M can accept various Charlie pattern front caps for different calibers to optimize sound reduction, if desired. Flash hider front caps and others with special purposes are also available from your local dealer or **silencerco.com**.

### CHANGING FRONT CAPS

With the silencer removed from the firearm, use the included 3-pin wrench and unthread counter-clockwise. To install a front cap, perform steps in reverse order. Firing your silencer without a front cap is not recommended.



## Maintenance

The 36M and 46M typically require limited maintenance. To ensure proper alignment and prevent silencer damage, mounts and mounting surfaces should periodically be cleaned with any standard gun cleaning solvent and a brush to remove any carbon or fouling.

When using a piston, 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.

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

The 36M and 46M use a Viton size-018 O-Ring available on our website (AC88).

Functionally similar to a car muffler, cleaning of the internal volume and baffles is not necessary.

**WARNING** *DO NOT run cleaning patches through the bore of the silencer as the patches may become lodged inside and can cause damage upon firing.*

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



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

**[AMERICANSUPPRESSORASSOCIATION.COM](https://americansuppressorassociation.com)**

**FOR QUESTIONS, CONTACT OUR CUSTOMER SERVICE TEAM  
AT 801.417.5384 OR [INFO@SILENCERCO.COM](mailto:info@silencerco.com)**

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