



OPTIMUS[®]

MICRO

OWNERS MANUAL



**GRIFFIN
ARMAMENT**

MICRO

INSTALLATION & MAINTENANCE GUIDE



**FAILURE TO READ AND UNDERSTAND THIS MANUAL
PRIOR TO USE MAY RESULT IN INJURY OR DAMAGE**

WELCOME

Griffin Armament® has been satisfying customers for nearly two decades with innovative and cutting edge sound suppressor technology.



The Optimus Micro re-defines the rimfire class of suppressors by offering the most durable and versatile rimfire suppressor ever designed. Utilizing state of the art manufacturing and heat treated 17-4 stainless steel throughout, the Optimus Micro supports 5.56mm cartridges out of the box using the included 1/2x28 direct thread mount. Interlocking HEDP patented baffle technology provides uncompromising sound performance while ensuring durability and proper orientation. Patented dual taper locking front caps ensure the suppressor can be used vigorously without fear of unintentional disassembly.

DISCLAIMER

Neither the manufacturer nor reseller from whom you received the product(s) are responsible for any improper use or resulting damage. Firearms and their accessories can be dangerous if not handled correctly, and it is the user's own responsibility to understand this manual and product for safe operation. If there are any unanswered questions, Griffin's experienced customer service team will gladly assist at (262)-200-0003.

Still have questions? Check out our [video channel](https://www.youtube.com/watch?v=785829855) for an in-depth briefing on the Optimus products and their accessories.

For a Technical Video on This Product Series

<https://vimeo.com/785829855>

PRODUCT SYNOPSIS

The Optimus Micro supports a variety of mounting systems. Originally engineered as a rimfire sized suppressor that was applicable to all varmint calibers, the Optimus Micro is even 22-250 rated in the Taper Mount configuration. User serviceable, compact, and extremely robust, this suppressor is perfect for recreational target plinking, and varmint hunting alike. Based off of it's larger brother the Optimus 9mm, the micro provides high quality and feature rich attributes in a compact affordable package.

* MUZZLE SPL & SPECIFICATIONS

OPTIMUS MICRO

115dB .22LR Pistols

116dB .22 Rifles

130dB 22-250 Rem 20" Bolt Action Rifle

129dB 223 Rem Bolt Action Rifle



5.3" x 1.1" x 8.5oz Standard Configuration

6.8" x 1.2" x 10.5oz Taper Configuration

5.5" x 1.2" x 10oz 3 LUG QD Configuration



*Sound Measurements are A weighted, taken 1M left of the firearm muzzle

MUZZLE & MOUNT OPTIONS - CHECK WEBSITE FOR FULL COMPATIBILITY

Taper Minimalist
Flash Hider
Muzzle



Taper Mount
Hammer
Comp Muzzle



Optimus Micro
Taper Mount
Interface



CAM-LOK
1.125x28
Direct Adapter





**FAILURE TO INTERLOCK BAFFLES WILL RESULT IN END CAPS
IMPROPERLY INSTALLED AND MAY CAUSE DAMAGE**

SILENCER USER SERVICEABILITY

The Optimus Micro effortlessly runs on your rimfire firearms and 223 rem rifles alike with the accompanying 1/2x28 direct-thread mount. Being both versatile in mount options and user-serviceable, it's effectiveness is without question. Durability is maximized through an all-stainless steel can, offering shooters the toughness required to handle a wide variety of calibers without sacrificing performance. Mounting systems abound, as typical of Griffin suppressors. There are plenty to choose from depending on your interests. By implementing a tuned interlocking baffle system, Griffin has ensured the Optimus Micro delivers impressive sound reduction. Moreover, the dual taper-locking end cap creates confidence that this suppressor will withstand a large volume of shooting on a variety of firearms without coming apart.

MOUNT EXAMPLES



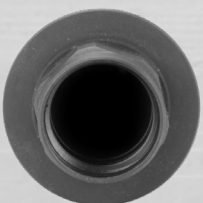
CAM-LOK® is a universal QD piston system comprised of two parts, the male barrel adapter and the female piston OR now available, the CAM-LOK® Universal Direct Thread Adapter. This direct thread adapter takes the place of the piston and spring, giving the ability to convert the suppressor to a much faster and more secure mounting solution on fixed barrel pistols. This system provides a rapid, secure attachment to the host pistol.



3 Lug interface assembly is an integral grouping which adds minimal length to the suppressor. This kit allows for QD mounting of many Griffin suppressors. Our 3 lug adapter requires minimal deflection of the spring bushing for installation, in some cases negating the need to modify hand stops and grips that come close to the 3 lug adapter.



Taper Mount interfaces and muzzle devices typically offer a rock solid mounting system with minimal and repeatable POI shift. However, the Optimus Micro Taper Mount interface provides a method of mounting any Griffin Taper Mount Muzzle device to the Optimus Micro Suppressor. All varieties both long and short and all thread pitches fit. This part is made exclusively for the Optimus Micro and will not fit any other Griffin Suppressor.



EZ-LOK™ is a separate eco-system, separately available, simplified, universal Rapid Index™ piston system. Our EZ-LOK™ interface affords the user the ability to convert the suppressor to a much faster and more secure mounting solution on fixed barrel pistols. This 1.125x28 Mount Interface can be installed into our pistol suppressor booster housings and into the Optimus Micro tube body.

RECOMMENDED TOOL KIT

Recommended tools like Griffin's **Multi-Function wrench** will assist in installing 3 lug products, removing booster housings, piston retainer removal, and opening your favorite bottled beverages. The attached direct thread mount will operate as needed, though we suggest checking the Griffin website for additional accessories that assist in a satisfactory shooting experience.

<https://www.griffinarmament.com/silencers-accessories/accessories/silencer-maintenance/>

Recommended additional silencer accessories that apply to Griffin Armament products can be found on our website at:

<https://www.griffinarmament.com/silencer-accessories/additional-silencer-accessories/>



1" Pipe
Brush



Lok-Cease
20/20

These products are intended to provide users with a satisfactory shooting experience. **Cleaning brushes** are all that is needed to clean the internal bore of the mounting system. **Lok-Cease 20/20** should be used on threads or tapers of the suppressor products. A light coat will ensure ease of suppressor removal after heavy use. **Suppressor alignment check rods** are critical to use when mounting a suppressor to a host firearm for the first time. This precision ground tool will show the user if the suppressor and host are properly working together. Refer to page 7 for details.



ALWAYS REMOVE THE MAGAZINE AND CLEAR THE CHAMBER BEFORE PERFORMING ANY FIREARMS OPERATION

PREPARATION & FEATURED TOOL KIT

To install **Taper Mount** devices on host firearms, start by cleaning and de-greasing threads. Use provided shims to bring the muzzle device into proper time. Device is installed correctly when specified torque is applied and logo (where applicable) is centered at the bottom or magazine well side of the firearm. Add or remove shims as necessary to achieve proper alignment. When installing the **CAM-LOK** system, be sure to tighten the booster assembly using a Griffin Multi-Function wrench or standard 3 prong wrench. Tighten the end cap using either a washer or standard US coin. These same steps apply to the 3 Lug kit.



INCLUDED IN BOX



IMPROPER ALIGNMENT CAN CAUSE PERMANENT DAMAGE TO YOUR SUPPRESSOR

CONFIRM ALIGNMENT BEFORE INITIAL USE

With the Optimus Micro silencer firmly tightened onto the mount, use a Griffin alignment check rod. Confirm visual alignment by ensuring the bore of the silencer is in the center of the bore of the firearms barrel. Failure to align properly may result in catastrophic failure. Gunsmiths can provide this service, or you can use a Suppressor Alignment Check Rod, which can be found on our website for an easier confirmation at:

www.griffinarmament.com/suppressor-alignment-check-rod/



PERFECT



ACCEPTABLE



MISALIGNED

Check rods are the most accurate and safe tool for assuring your silencer has a safely shootable bore condition. Installation and use of this tool is simple and should prevent baffle strikes or any unexpected issues once you get to the range.

Griffin Armament has gone to great lengths to manufacture a precision ground lab grade check rod which can quickly and easily prove alignment. These rods can be bent very easily however and must be handled with extreme care in order to remain useful. Store on a flat supportive surface in a dry climate.

HOW TO USE SUPPRESSOR ALIGNMENT CHECK RODS:

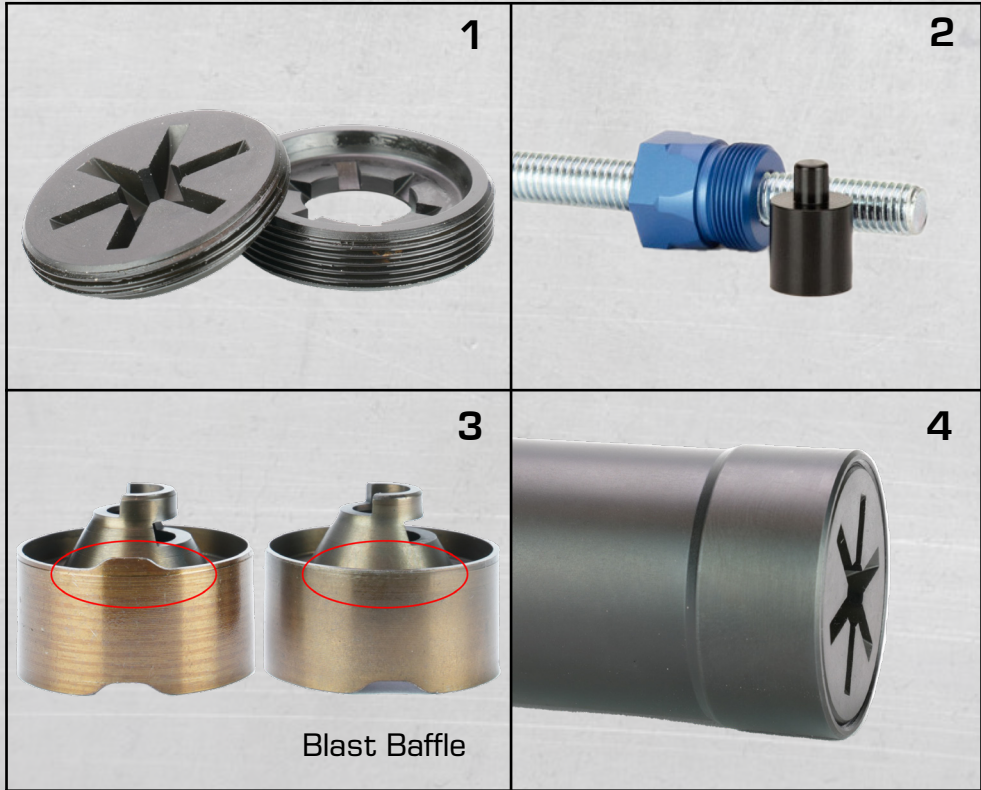
- Properly mount your silencer to the host firearm.
- Insert check rod down bore of the silencer and into the host firearm bore until the end of the rod is flush with the end cap.
- Observe alignment and confirm rod is positioned near the center of the silencer bore (refer to images above).
- Host firearm may need to be rotated around bore to confirm alignment due to tolerance between the bore and check rod.
- If the mount and silencer are in alignment the rod will not touch the suppressor.

Remove the rod before shooting!

- If the rod is touching contact your gunsmith for trouble shooting. Typically the threads are in need of repair.

DISASSEMBLY & ASSEMBLY OF THE SUPPRESSOR

- 1) **DISASSEMBLY** - Interface a small washer or object such as a coin in the end cap geometry. Twist counterclockwise to unlock. If cap is tight or fouled with carbon, grip the quarter in a vice and use the wrench flats on the silencer body to unlock the end caps. Apply force into the end cap geometry to ensure quarter does not slip and damage geometry. Once end cap is removed, push baffles out from the rear to the front of the suppressor using either a wooden dowel or pusher tool kit.
- 2) A pusher tool kit is not included with the Optimus Micro and is not necessary, unless periodic maintenance has been neglected by the end user. If using the baffle pusher tool kit, thread the bolt through the black threaded tool. Once threaded, put black pusher cap on the end of bolt. Thread assembly into the rear of the body and use a 3/4" wrench or socket driver to drive the baffle stack out of the suppressor.
- 3) **ASSEMBLY** - After cleaning the tube and baffles, stack baffles making sure all tabs are interfaced and properly interlocked. **The blast baffle should be inserted first and is the only baffle that does not have a tab on cone side of the cylinder face.** After inserting baffles into the tube, ensure they are locked together by rotating them in the tube. The blast baffle should be inserted on top of the other baffles upon assembly. Cones should point toward the muzzle of the firearm. Install locking nut first (right side of Figure 1), ensuring to tighten with a washer or coin. Then install the end cap (left side of Figure 1) in the same fashion. If front cap is not flush with tube body, the baffle stack is not properly interlocked and seated.
- 4) A properly assembled Optimus Micro will have the appearance of a flush end cap to the tube body. Ensure parts are cleaned and use anti cease on all threaded parts when re-assembling.



**FAILURE TO PROPERLY RE-ASSEMBLE YOUR BAFFLES
MAY CAUSE DAMAGE TO YOUR SILENCER OR FIREARM**

FIRST ROUND FLASH ELIMINATION - DUTY APPLICATIONS ONLY

There are two methods Griffin recommends for wetting your suppressor to eliminate 1st round muzzle flash. The first method would be to detach the suppressor and rotate at a 45 degree angle while pouring 5cc's of water slowly into the mount interface. Ensure the bores are drained of all excess water. Then mount the suppressor. **DRAINING EXCESS WATER** is critical to ensure that water does not seep back into the bore causing potential barrel damage. The second method is to submerge your suppressor entirely detached from host firearm. Shake the suppressor vertically multiple times to allow excess water to drain, end cap up. From here, simply install the suppressor and fire as normal. Accuracy and point-of-impact shift should be completely unaffected.

CLEANING THE SUPPRESSOR

Clean the mount interface of the silencer and the muzzle device after every use. Failure to clean the mount can result in your suppressor becoming stuck on the muzzle device. An Oatey 1" pipe cleaning brush can be used to clean the inside of Taper Mount interfaces of the suppressor. The inside bore of the silencer tube body can be cleaned using a 1.5" & 1.25" pipe cleaning brush. Various brushes for cleaning are available on our [website](#). To clean baffles, a tumbler, ultrasonic cleaner, or a brush and oil can be used. Use of an anti-cease type product on the thread interfaces will allow for easier disassembly and maintenance.

BARREL LENGTH RATINGS AND RATE OF FIRE

For a longer service life, follow the information listed below. Always allow the suppressor to cool if the tactical situation permits.

Common Calibers Supported: 22lr, 22WMR, 17HMR, 5.7mm
(no barrel restrictions)

Thread Mounted & 3-Lug Ratings: 22 Hornet, .223 / 5.56mm 14.5" barrel
Taper Mounted Ratings: 12.5" .223 / 5.56mm, -- 16" or longer barrels,
22 Nosler, .224 Valkyrie, 22 Hornet 20" or longer, 204 Ruger, .222 Remington
Magnum, 22" or longer 224 Weatherby Magnum, 22-250 Remington

Maximum ROF: 5 - 7 rounds fired with .223 / 5.56mm, then suppressor must cool to ambient temperature

WARRANTY STATEMENT

PRODUCT LIFETIME LIMITED WARRANTY

Subject to the limitations outlined below, Griffin Armament will repair or replace free of charge any product we manufacture for the duration of this lifetime warranty. This warranty is unlimited in duration and covers at Griffin Armament’s sole discretion, service, repair, and/or replacement of damaged products caused by normal use. Any repair not covered by the warranty will be billed at a maximum of 30% of current MSRP for a comparable product, subject to BATFE transfer fees as required.

LIMITATIONS

Griffin Armament’s warranty does not cover loss, normal wear, damage to our product or the host weapon system resulting in whole or in part from abusive or negligent use, unauthorized modification, improperly threaded barrels, improperly mounted suppressors, improperly loaded or re-loaded ammunition, or neglect. Finish wear is cosmetic and is not covered by this warranty. Any repairs to the unit made necessary by the above mentioned factors may be invoiced to the owner at a maximum of 30% of current MSRP for the most comparable product. The individual barrel lengths and calibers warranted are listed in the manual you receive with your product, or on the product page (applicable only to the most current model of the respective product). In all cases refer to the product manual for product limitations prior to using a Griffin Armament product. Warranty is subject to change without notice.

To learn more about Griffin Armament® and the kit we provide, please visit us on the web at www.GriffinArmament.com or keep track of our social media pages:

Instagram

Facebook

YouTube

Rumble











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