



OPTIMUS[®]

OWNERS MANUAL



**GRIFFIN
ARMAMENT**

OPTIMUS[®]

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.



Years ago, Griffin Armament introduced a market-changing product, the Optimus[®] suppressor. Despite its success, Griffin has integrated several new technologies such as ECO-FLOW[™] baffles, new technology interfaces, and external cosmetic gripping tube geometry. These new features will ensure that the Optimus suppressor remains at the forefront of the universal suppressor category for years to come.

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/channel/UCv82655599) for an in-depth briefing on the Optimus products and their accessories.

For a Technical Video on This Product Series
<https://vimeo.com/782655599>

PRODUCT SYNOPSIS

The Optimus 9 suppressor did what many thought was impossible; bring a suppressor to market that covers 90% of all commercially popular cartridges. Oh, and make it work on rifles and pistols. This suppressor could be used on both handguns, as well as rifles, and was modular for length, modular for mounting systems, and was able to be taken apart for user maintenance. If you're looking for the best compact universal suppressor, you've found it.

* MUZZLE SPL & SPECIFICATIONS

OPTIMUS 9

137.6 dB 147GR
135.7 dB 55GR
132.1 dB 190GR
125.2 dB 40GR
138.9 dB 168GR



6.60" x 1.375" 12.0oz Normal configuration
9.4" 17.6oz Full sized taper mount
7.9" 15.7oz Taper Mount Minimalist devices
6.6" 12.0oz Pistol configuration
6.6" 13.5oz 3-Lug configuration

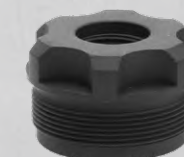
*Sound Measurements are A weighted, taken 1M left of the firearm muzzle

ADDITIONAL MOUNT OPTIONS - CHECK WEBSITE FOR ALL LISTED OPTIONS

PLAN-A[™]
1.125x28



Direct Thread
Configuration



DUAL-LOK[™]
1.2875x24



Taper Mount
Blast Shield




TILT BARRELED MOUNT OPTIONS (PISTOL CALIBERS)

Universal suppressors are capable for use on tilt barrel semi-automatic pistols as well as sub guns, fixed barrel firearms, and rifles covering nearly all popular commercial cartridges and firearm combinations. For mounting on tilt barreled pistols, there's currently three options: Direct Thread, CAM-LOK, and EZ-LOK. When switching from one thread pitch to another with direct thread pistons, the suppressor needs to be disassembled and reassembled with the correct piston. With a traditional piston, you typically have to tighten the suppressor down every 2-4 rounds to ensure it stays tight. The EZ-LOK and CAM-LOK are intended to be a quick detach system and stay tighter on the firearm longer than the direct thread piston. It is still a good idea to confirm tightness every 1-3 magazines.

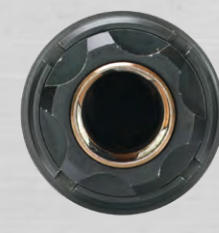
Additional mounts, front caps, and other accessories and how to install them can be found on our website:
<https://www.griffinarmament.com/silencers/universal-silencers/>




*TILT BARREL EXAMPLES



EZ-LOK™ is comprised of two parts: the male barrel adapter and the female piston. This interface gives the ability to convert the suppressor to a much faster and more secure mounting solution (than direct thread pistons) on tilt barrel pistols. Suppressors supported by this piston family will benefit from the interchangeability of these barrel adapters.



CAM-LOK® universal piston system is also comprised of two parts: the piston and the barrel adapter. This system provides a rapid, secure attachment to the host pistol. The piston is universal; accommodating any pistol mounted with a CAM-LOK barrel adapter. Suppressors supported by this piston family will benefit from the interchangeability of these barrel adapters.



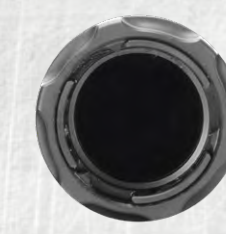
Direct Thread pistons, as the name implies, allow you to thread the silencer directly onto tilt barrel firearms of that thread pitch. Each time you would like to change thread pitches, you must disassemble the silencer to change the piston out. Users must continually check tightness when using a direct thread.

*CAM-LOK and EZ-LOK are not compatible with each other.

FIXED BARREL MOUNTING & OPTIONS




Taper Mount interfaces and muzzle devices offer a rock solid mounting system with minimal and repeatable POI shift. The Plan A adapter included with the suppressor will support the use of taper mount muzzle devices up to and including the Taper Mount Hammer Comp. The Plan A Long shown here is separately available for use of longer taper mount muzzle devices.




DUAL-LOK™ mount interfaces for 1.375x24 is a precision taper interface (one locking feature) between the mount and the device ensures accuracy. An ACME thread, provides speed and ease of attachment and a redundant locking collar acts as the second locking feature. The muzzle device integrates 60 machined mounting position grooves which is doubled by the mount's two locking positions, hence the name DUAL-LOK™.




A2 Adapter for 1.375x24 suppressors is a mount interface that provides a high quality mounting interface for Griffin Armament GATE-LOK Flash comps, Hammer Comps, and mil-spec A2 birdcage flash hiders. Weighing 5 ounces, the A2 adapter mount can be used on 5.56mm AR's or with the 30SD flash comp it will support centerfire calibers up to .308 Winchester.



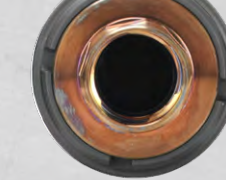
EZ-LOK™ is comprised of two parts: the male barrel adapter and the female piston. This interface gives the ability to convert the suppressor to a much faster and more secure mounting solution (than direct thread pistons) on fixed barrel pistols. This Direct Thread to EZ-LOK™ Universal Adapter allows you to convert 1.375x24 threaded suppressors to receive EZ-LOK™ barrel adapters for fixed barrel uses.



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.



Direct Threaded Mounts provide a direct thread interface for the Griffin Bushwhacker® & other 1.375x24 threaded suppressors. Wrench flats make it equally simple to attach or remove from the suppressor tube body or your firearm's muzzle threads. No proprietary tools required.



CAM-LOK® mounts for fixed barrel options are 1.125x28 and thread into the booster housing, not directly into the tube body. This is only intended for pistol calibers.

For an in-depth tutorial on each of these systems, click the video link below:
<https://vimeo.com/784884411>

Revolution Fixed Mount



3 Lug



Piston (Fixed Barrel)
(using Fixed Barrel Spacer, NO CAM-LOK®)



Piston (Tilt Barrel)
(CAM-LOK® or Silencer Piston)



Plan-A

Direct Thread
CAM-LOK®



Mid Size
Taper Mount



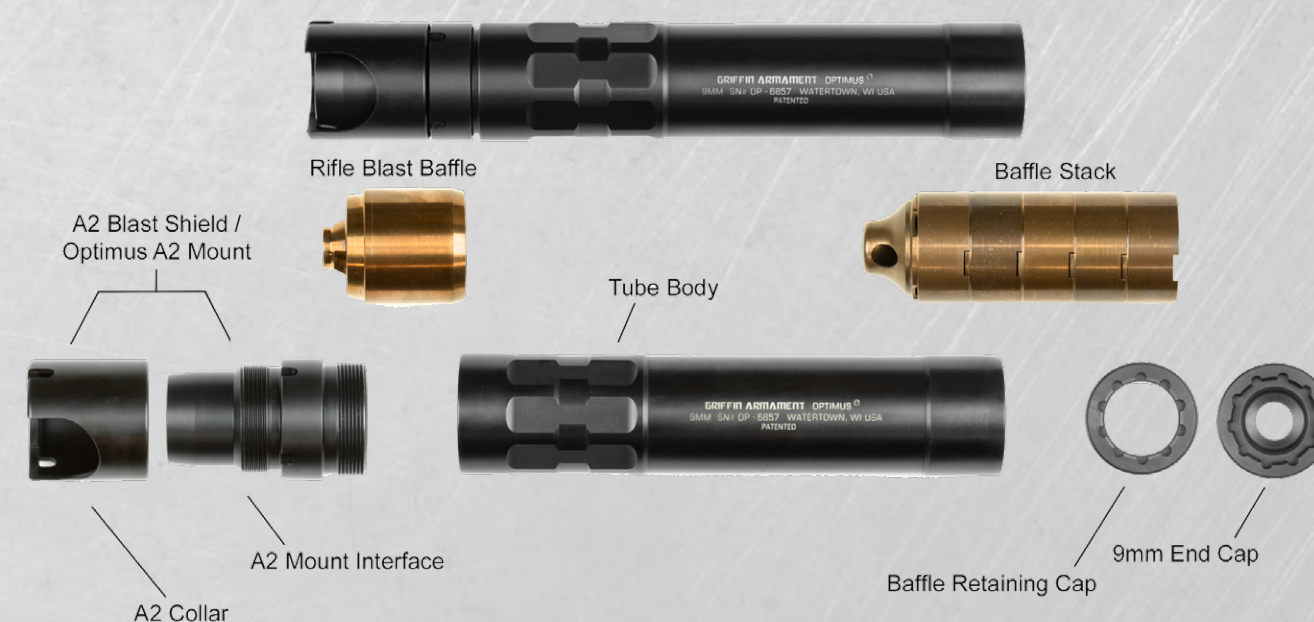
A2



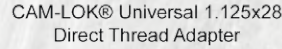
Optimus® 9 3 Lug Configuration



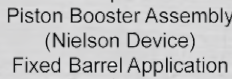
Optimus® 9 A2 Configuration



Optimus® 9



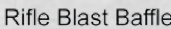
Optimus® 9



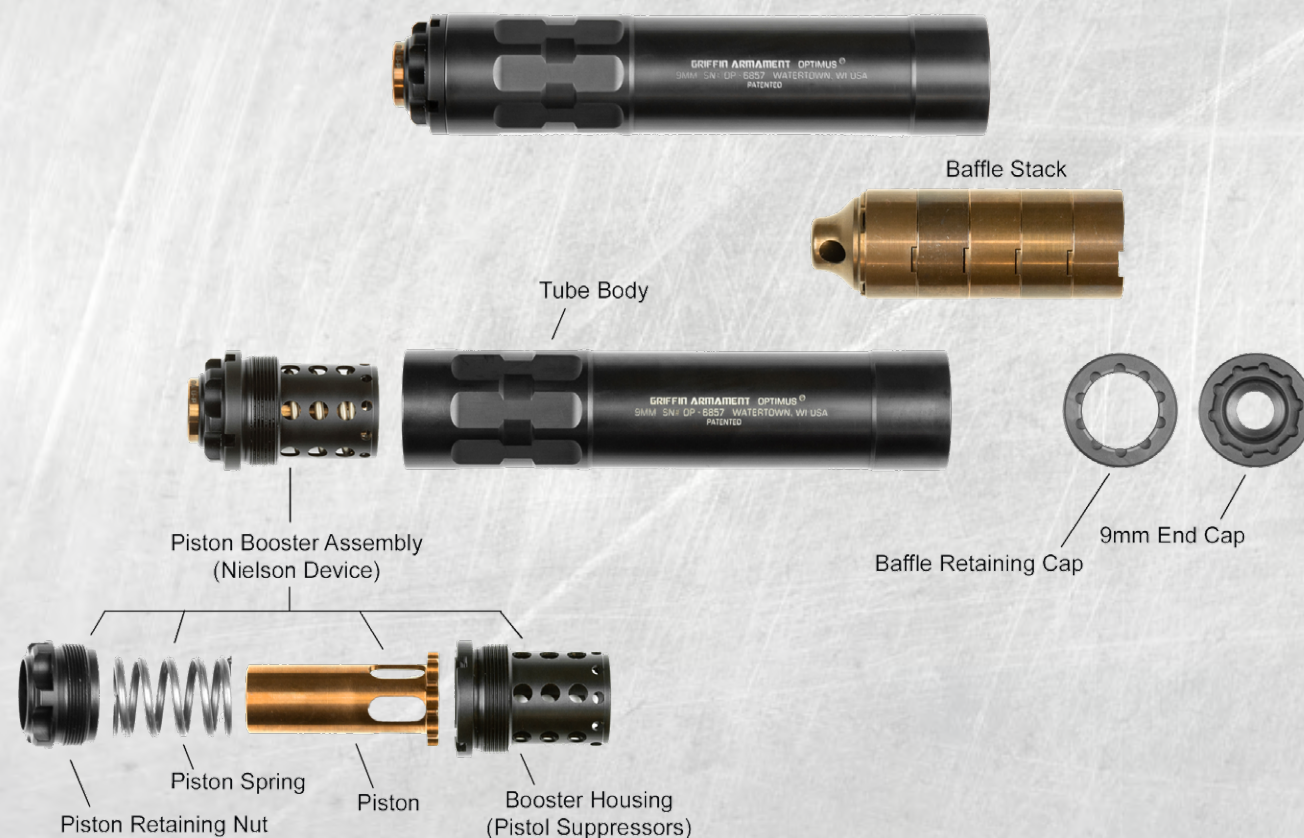
Optimus® 9



Optimus® 9



Optimus® 9 Piston Configuration (Tilt Barrel)



Optimus® 9 Plan-A™ Configuration



RECOMMENDED TOOL KIT

The included multi-function wrench tool assists in installing 3 lug products, removing booster housings, piston retainer removal, and opening your favorite bottled beverages. The full booster assembly does not include a piston, enabling the customer to purchase their desired systems such as CAM-LOK, EZ-LOK, or Direct Thread.

<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. The brushes are all that is needed to clean the internal bore of the mounting system. The Lok-Cease should be used on threads or tapers of the suppressor products. A light coat will ensure ease of suppressor removal after heavy use. Alignment 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 13 for details.



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

PREPARATION & INSTALLING TAPER MOUNT

To install / remove the booster housing use the supplied car stock wrench. When installing Taper Mount interfaces in conjunction with the Taper Lock Baffle, be sure to only snug it up hand tight. Use of a thin layer of anti seize on the external threads of the Optimus mount interfaces will make removal easier. To install Taper Mount devices onto your host firearm, start by cleaning and de-greasing threads. Use shims (if provided) to bring the muzzle device into proper time. Device is installed correctly when 40-50 ft/lbs of torque is applied and logo is centered at the bottom or magazine well side of the firearm.

Add or remove shims as necessary to achieve proper alignment. If muzzle device becomes stuck in taper adapter, use slotted geometry on spanner tool to remove.

*FEATURED TOOL KIT



*.30cal blast baffle is not compatible with .30cal projectiles like .380ACP, .38special, .357magnum, 9mm, .350legend



IMPROPER ALIGNMENT CAN CAUSE PERMANENT DAMAGE TO YOUR SUPPRESSOR

CONFIRM ALIGNMENT BEFORE INITIAL USE

With the Optimus 9 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 & RE-ASSEMBLY OF THE SUPPRESSOR

- 1) **DISASSEMBLY** - Remove the rear mount interface. Taper Mount interfaces can be removed with an adjustable crescent wrench or strap wrench, pistol booster housing and A2 interfaces can be removed with the included 3 prong CAR Stock Wrench.
- 2) Remove the rifle blast baffle. If the taper lock baffle is stuck in the rear of the silencer, insert the baffle pusher tool down the 9mm end cap and gently tap it out the rear of the suppressor.
- 3) Remove the end cap using the included piston as a wrench. Stick a small screw driver or similar small rod through the gas ports in the piston and use for leverage. Remove end cap and do the same with the Baffle Retaining Ring. Push pistol baffles out of the silencer body from rear to front. Optimus is now fully disassembled. The Multi-Function Wrench can be used to remove / install piston retainer in pistol configuration.
- 4) **ASSEMBLY** - Ensure the inside taper surface is clean. Use a 1.25" pipe cleaning brush on a hand drill. Next, lock all pistol baffles together making sure that they are all fully seated. Screw baffle retaining ring in place tightly using the included piston as previously described. Next, choose the appropriate end cap for the firearm and install tightly again using the piston. **There are only two end caps for the Optimus. Ensure that you have the appropriate end cap installed prior to firing.**



**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](http://www.griffinarmament.com). To clean baffles, a tumbler, ultrasonic cleaner, or a brush and oil can be used. Use of an anti-seize type product on the thread interfaces will allow for easier disassembly and maintenance.



CALIBER RATINGS BASED ON CONFIGURATION

The Optimus 9 features an extremely strong 17-4 Stainless steel tube body and baffles. As such, the Optimus 9 suppressors will be rated for many higher pressure calibers with the minimum barrel length restrictions shown below. These barrel length restrictions are intended for use with stronger mounting systems like Taper Mount, Dual-Lok, and the Hub Direct Thread Adapters. Systems like Cam Lok, Silencer Pistons, and 3 Lug Interfaces should not be used with rifle calibers.

Optimus 9 Long Configurations

Minimalist Blast Shield
& A2 Blast Shield

308 Win 16"
*.350legend 16"
6.8spc 12.5"
7.62x39 8"
300blk Super/Sub 8"
5.56mm 10.5"

Optimus 9 Short Configurations

3-Lug, EZ-LOK Direct Thread,
PLAN-A, DUAL-LOK 1.2875x24

Limited full auto
5.56mm 16"
.300BLK 9.5" (supersonic)
.300BLK 8" (subsonic)
5.7x28mm (no restriction)

Semi auto
5.56mm 14.5"
.350legend 16"



*.30cal blast baffle must be removed for use

OPTIMUS™ CONFIGURATIONS AND RATINGS



Full Size - 9.4" 17.6 ounces - Taper Mount Compatible



Rating - Rifle Calibers up to 300WM

300WM - 24", 308 / 6.5cm - 14.5", 6.8spc - 12.5", 7.62x39 - 8", 300BLK super/sub 8", 5.56mm - 10.5"
Maximum bullet diameter = 30 caliber. Larger Projectiles will damage suppressor in this configuration.

Mid Size* - 7.9" 15.7 ounces - Taper Mount Compatible**

*requires minimalist blast shield (Sold Separately) Minimalist devices only**

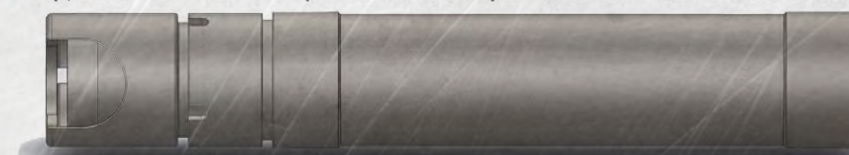


Rating - Rifle Calibers up to 308Win

308 / 6.5cm - 16", 6.8spc - 12.5", 7.62x39 - 8", 300BLK super/sub 8", 5.56mm - 10.5"
Maximum bullet diameter = 30 caliber. Larger Projectiles will damage suppressor in this configuration.

A2 config* - 8.4" 17.4 ounces - A2 Mount Compatible**

*requires A2 adapter (Sold Separately) A2 mounts, M4SD Tac comp, Hammer Comp, Paladin brake, Flash Comp, and 30SD Flash Comp** For list of compatible devices visit Griffin Armament.com

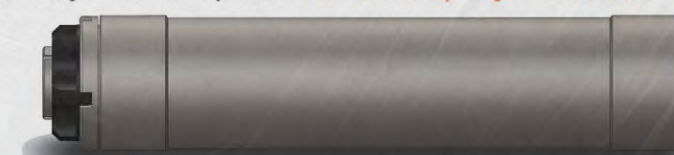


Rating - Rifle Calibers up to 308Win

308 / 6.5cm - 16", 6.8spc - 12.5", 7.62x39 - 8", 300BLK super/sub 8", 5.56mm - 10.5"
Maximum bullet diameter = 30 caliber. Larger Projectiles will damage suppressor in this configuration.

9mm / Short config* - 6.6" 12 - 13.5 ounces - Booster Compatible, 3 Lug Compatible, Direct Thread Compatible*

*Includes Booster assy and 1/2x28 piston. Piston and spring are not fixed barrel compatible.



Rating - Rifle Calibers up to 300BLK Super**

**3LUG 5.56mm - 14.5", 300BLK super 9.5" sub 8" 9mm Full Auto
This is the only configuration that will allow the use of 9mm projectiles.
This is the only config compatible with the 22 cal end cap. .

For More information on the Optimus silencer visit
www.GriFFinArmament.com



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





FAQ SECTION

Can I use my .22cal end cap with the minimalist blast shield or A2 blast shield?

No, we only advise the use of the .22cal end cap in the short configurations (3-Lug, PLAN-A, DUAL-LOK, Direct Thread, CAM-LOK Direct Thread, EZ-LOK Direct Thread).

How can I mount my Optimus 9 suppressor or fixed barrel .35cal firearms?

For fixed barrel .35cal firearms (.380ACP, .38special, .357magnum, 9mm, .350legend), make sure to omit the .30cal blast baffle and use the supplied 9mm end cap. Once the .30cal rated blast baffle is removed, all of the mounting interfaces (listed on page 5) will be compatible with pistol calibers.

What muzzle devices will my Optimus 9 be compatible with?

		Optimus 9 with Taper Mount Minimalist Blast Shield and .30Cal rifle blast baffle	Optimus 9 with Taper Mount minimalist Blast Shield without .30Cal rifle blast baffle	Optimus 9 Plan A Configuration	Optimus, Bushwhacker, and Explorr Utility Mount with A2 Adapter	Dual-LOK 1.2875x24 Adapter
Taper Mounts						
Taper Mount Direct Thread Adapter	N/A	Yes	Yes	Yes	No	No
Taper Mount Minimalist Brake (17-4 & Ti)	1.34	Yes	Yes	Yes	No	No
Taper Mount EZ Brake	1.4	Yes	Yes	Yes	No	No
Taper Mount Minimalist Stealth Flash Suppressor	1.8	Yes	Yes	Yes	No	No
Taper Mount Paladin 2 Port Brake	1.883	Yes	Yes	Yes	No	No
Taper Mount Hammer Comp	1.94	No	Yes	Yes	No	No
Taper Mount Closed Tine Flash Hider	1.945	Yes	Yes	Yes	No	No
Taper Mount Tactical Compensator	2.2	No	Yes	No	No	No
Taper Mount Stealth Flash Suppressor - 2.25"	2.25	No	Yes	No	No	No
Taper Mount Linear Compensator	2.27	No	Yes	No	No	No
Taper Mount OTB Bayonet Flash Hider	2.3735	No	Yes	No	No	No
Taper Mount Flash Comp	2.375	No	Yes	No	No	No
Gate-LOK						
Gate-LOK™ Hammer Comp 5.56mm	1.75	No	No	No	Yes	No
Gate-LOK™ Stealth Flash Hider 5.56mm	2.25	No	No	No	No	No
Gate-LOK™ Flash Comp 5.56mm	2.25	No	No	No	Yes	No
Gate-LOK™ Flash Comp .30cal (7.62mm)	2.77	No	No	No	Yes	No
Colt A2 NATO Spec Birdcage	1.75	No	No	No	Yes	No
Dual-LOK						
DUAL-LOK™ Minimalist Brake (17-4SS & Ti)	1.42	No	No	No	No	Yes
DUAL-LOK™ Minimalist Stealth Flash Suppressor	1.9	No	No	No	No	Yes
DUAL-LOK™ 2 Port Paladin Brake	2.13	No	No	No	No	Yes
DUAL-LOK™ Stealth Flash Suppressor (2.25")	2.34	No	No	No	No	Yes
DUAL-LOK™ Tactical Compensator	2.38	No	No	No	No	Yes
DUAL-LOK™ OTB Bayonet Flash Hider	2.545	No	No	No	No	No
DUAL-LOK™ PSR™ Flash Hider	3.6	No	No	No	No	No
DUAL-LOK™ PSR™ Paladin Muzzle Brake	3.8	No	No	No	No	No



CS@GRIFFINARMAMENT.COM

(262)200-0003

Watertown, WI 53094

GRIFFIN
GENERAL
ISSUE
PROGRAM



GRIFFIN
ARMAMENT

