



DUAL-LOK

ADDITIVE MANUFACTURED
OWNERS MANUAL



**GRIFFIN
ARMAMENT**

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DUAL-LOK

ADDITIVE MANUFACTURED

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 over two decades with cutting edge sound suppressors.



Suppressors offering active retention systems are often times demanded by government customers and Griffin has spent considerable research and development efforts to engineer and manufacture a next generation system in this category. A quality mounting system should be accurate, robust, reliable, require minimal training, and be free of wear prone metal on metal teeth or ratchets, thereby guaranteeing a longer, trouble-free service life with minimal maintenance needed. Griffin's patented DUAL-LOK™ mounting system was designed around these objectives.

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](#) for an in-depth briefing on the DUAL-LOK products and their accessories.

"Griffin Armament DUAL-LOK™ 5 & 7 Suppressor Tutorial"

<https://vimeo.com/784585195>

PRODUCT SYNOPSIS

The DUAL-LOK™ AM suppressors are managed backpressure suppressors constructed from Griffin's proprietary Nickel 625X™ powder alloy utilizing state-of-the-art DMLS additive manufacturing technology. These silencers are built on Griffin's DUAL-LOK™ mounting system providing exceptional accuracy with minimal and repeatable POI shift, and completely eliminates the fear of unintended loosening during prolonged courses of fire. The new flash hider end cap reduces system backpressure by peripherally venting gases, resulting in softer recoil impulses, less wear and tear on the host firearm and reduces operator exposure to toxic gases. The DUAL-LOK™ AM suppressors offer market leading sound and flash reduction with the desired low back pressure experience shooters have been looking for,

* MUZZLE SPL & SPECIFICATIONS

DUAL-LOK™ 5 AM

(129DB) 12.5" Griffin MK2

6.4" x 1.54" x 15.8oz

DUAL-LOK™ 7 AM

(132DB) 16" .308 win AR10

(120DB) 9.5" .300BLK SUB

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

7.4" x 1.54" x 17.5oz

*These suppressors are also available in a HUB mount option, if using another company's mounting system, refer to their manual for proper use



ADDITIONAL MUZZLE DEVICES

Minimalist Brake(Ti)



Minimalist Flash Suppressor



Flash Suppressor (2.25")



Paladin 2 Port Brake



Tactical Comp



RECOMMENDED TOOL KIT

The recommended tool kit for Griffin's DUAL-LOK™ products consist of Suppressor Alignment Check Rods, 1" Maintenance Pipe Brushes, and High Temp Anti Seize. All of these products along with other great accessories can also be found on our website:

<https://griffinarmament.com/product-category/silencer-accessories/maintenance-tools/>

Additional silencer accessories that apply to our other products can also be found on our website at:

<https://griffinarmament.com/product-category/silencer-accessories/>

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 and corresponding taper and threads. The Anti Seize should be used on the internal taper of the suppressor. 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 7 for details.



1" Pipe Brush



High Temp Anti Seize



ALWAYS REMOVE THE MAGAZINE FROM THE FIREARM AND CLEAR THE CHAMBER BEFORE PERFORMING ANY MAINTENANCE OPERATION

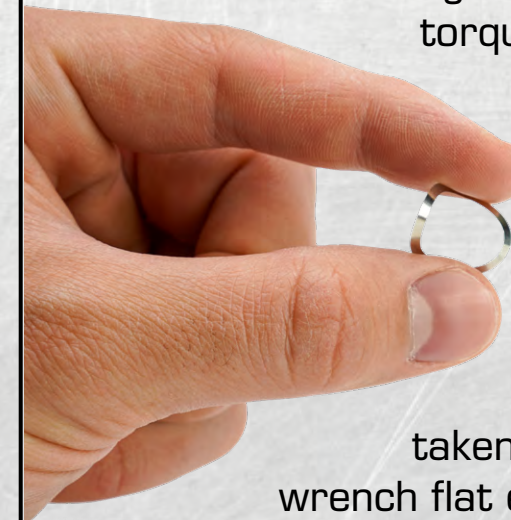
PREPARATION & PRECAUTIONS

Griffin's DUAL-LOK™ silencers require few critical accessories, most of which are supplied or available through our website. These tools will assist in the proper use of the DUAL-LOK products and ensure they function as intended. Substantial efforts are taken in the manufacturing and inspection of the Griffin product line to ensure customers are fitted with the highest of quality parts. A preset or needle style

torque wrench is required to set accurate torque.

Precision stainless shims are provided. A 3/4" open ended crowfoot wrench is ideal. Griffin armorer tools also have been designed around these procedures and are available at www.GriffinArmament.com

The supplied muzzle device is a stainless tool steel material and very hard, but care should be taken when applying torque to not mar the finish or wrench flat edges.



(Figure 1)

REQUIRED TOOL KIT



30-45 ft/lbs Torque Wrench

3/4" Open-Ended Wrench



Supplied Muzzle

Supplied Shims



Supplied Silencer

MOUNTING THE MUZZLE DEVICE

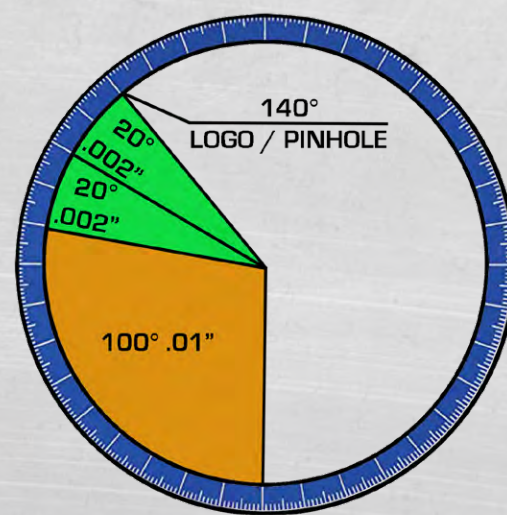
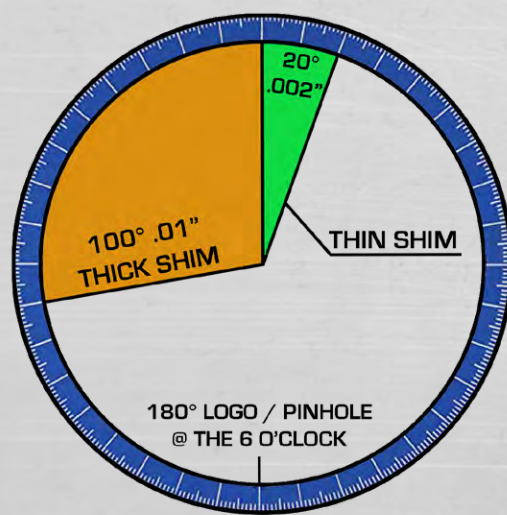
First, clear your firearm in accordance with its manufacturer's user manual. Next, prepare a dry fit installation of your muzzle device. Clean muzzle threads and face with a brass brush. Dry fit muzzle device and torque to min. spec. Measure the rotation degree required to align with firearm. This suppressor was designed for DUAL-LOK specific muzzle devices, such as the OEM supplied Minimalist Brake. The Griffin logo or pinhole of your muzzle device needs to be facing down in the 6 o'clock position when correctly installed.

EXAMPLE: Your muzzle device was dry fitted and torqued to 35 ft/lbs (30-45 ft/lbs is ~12° of radial range) without the use of shims and is near the 10 o'clock position, or 140° when measured (see below). For this you will need one thick shim (measured at .01") and two thin shims (.002") to time the bottom of the muzzle device into the 6 o'clock position. 100° of rotation is equal to .01" while .002" is equal to 20° of rotation. Thin shims are more narrow and will easily flex in your fingers (see Figure 1 on page 5). **DO NOT USE CRUSH WASHERS** with your silencer as these will cause baffle strikes.

Lastly, while using a calibrated 3/8" drive torque or needle type wrench and a 3/4" open-ended wrench, tighten your muzzle device into the 6 o'clock position ensuring you achieve 30-45 ft/lbs of torque. Add or delete shims as needed to achieve proper timing and torque. This may take several minutes. Flash suppressors do not include shims as they do not require timing.

REFERENCE

EXAMPLE



IMPROPER ALIGNMENT CAN CAUSE PERMANENT DAMAGE TO YOUR SUPPRESSOR

CONFIRM ALIGNMENT BEFORE INITIAL USE

Immediately after mounting the muzzle device with a shim set, firmly attach the silencer in the **UNLOCKED** position to installed muzzle device. Look down the silencer bore through the barrel, illuminating the bore with light. Confirm visual alignment by ensuring the bore of the silencer is in the center of the firearm's barrel. 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.



**FAILURE TO UNLOCK THE MOUNT BEFORE INSTALL
WILL CAUSE DAMAGE TO THE SYSTEM**

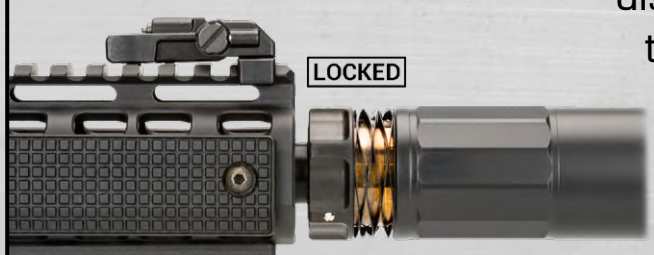
MOUNTING THE SUPPRESSOR

1) Ensure DUAL-LOK™ is in the **UNLOCKED** configuration (see hand model below). Thread DUAL-LOK™ silencer onto DUAL-LOK™ muzzle device. Tighten silencer firmly by hand with moderate effort.

2) Rotate collar clockwise or counter-clockwise until collar springs rearward over tines and rear face of the collar is flush with the rear face of the tines (Fig. **LOCKED**). Pin will be in left or right side of the **U** shaped DUAL-LOK™ slot. When the device is tight, only one of the locking positions/sides will work.

3) **Once done firing, ALLOW SUPPRESSOR TO COOL** to ambient temperature. Material temperatures can reach in excess of 1000°F under normal use. After the suppressor has cooled, push down the collar which will compress the wave spring and turn either left or right to find the neutral position (Fig. **UNLOCKED**). Tines will be exposed in this position.

4) Unscrew suppressor completely. It is advised to store the suppressor in the locked configuration as this will protect the tines from the possible abuse of daily handling. This mount is not end user serviceable. It should not be disassembled or modified in any way, or this will void the warranty. This should only be done by Griffin's technical service department in the highly unlikely event it is necessary.



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 and re-apply Anti Seize to the mount interface of the silencer after every use to prevent your suppressor from becoming stuck on the muzzle device. Remove excess carbon from the muzzle device OD with a fine wire brush or wheel. The Silencer should be soaked in a mild cleaning solvent, such as Kroil, every 4000 rounds to prevent carbon buildup, then drained and shot 30 rounds to blow out any excess solvent. An Oatey 1" pipe cleaning brush can be used to clean the inside mount interface of the suppressor. **DO NOT USE** coarse or medium wire wheels or brushes, as this can cause damage to your mount.



MAXIMUM RECOMMENDED RATE OF FIRE:

For a longer service life, do not exceed three 30 round magazines on full auto, followed by 15 rounds per minute sustained. Allow the suppressor to cool if the tactical situation permits.

MINIMUM BARREL LENGTH RATINGS FOR SAFE USE:

NO BARREL LENGTH RESTRICTIONS

WARRANTY STATEMENT

GRIFFIN ARMAMENT PERPETUAL LIFETIME WARRANTY

Subject to the limitations outlined below, for the life of the product, we will repair or replace your Griffin Armament item at no charge if it becomes damaged or defective. This covers all issues other than loss, theft, misuse, or natural wear and tear. There is no warranty card or registration needed, no receipt required, and fully transferable to all future owners.

LIMITATIONS

Griffin Armament's warranty does not cover loss, theft, normal wear and tear or cosmetic finish wear, damage to the product or the host weapon system resulting from: abusive or negligent use, unauthorized or improper modification, improperly threaded barrels or improperly mounted suppressors, improperly loaded or re-loaded ammunition, or damages caused to another manufacturer's products used in conjunction with Griffin Armament products. If repairs are necessary due to the factors listed above (misuse, negligence, etc.), the owner may be invoiced at the following rates: 30% of MSRP for traditionally machined suppressors and complete firearms, 40% of MSRP for additive manufactured (AM) suppressors, and 70% of MSRP for stripped lower receivers. Fees are based on the MSRP of the same or most comparable current product. Warranted barrel lengths and calibers are listed in the product manual or on the specific product page (applicable to the most current model). Always refer to your product manual for specific limitations prior to use. 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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