

# Owners Manual

# LRM M-169

LRM M-169 16 Upper Receiver System

*Do not use Win White Box ammo*

# Owner's Manual

## LRM M-169 Suppressed 9mm M16 Upper Receiver System

**NOTE**--The LRM M-169 is not a firearm in itself but is a firearm accessory. This Owner's Manual is meant to supplement any Owner's Manual which was originally supplied with the lawfully possessed M16 rifle to which the LRM M-169 upper receiver attaches. Such Owner's Manual likely contains important information regarding the proper use, maintenance and safe handling of the rifle. If you do not have such an Owner's Manual for your rifle, it is highly recommended that you first obtain one from the original manufacturer of the rifle, read it completely and thoroughly familiarize yourself with the proper, safe use of your rifle before using your LRM M-169 upper receiver assembly.

**IMPORTANT!**--*The suppressed barrel unit of the M-169 is considered a "silencer" or sound suppressor and as such is regulated under the federal National Firearms Act of 1934 (NFA) and some state and other local laws. Current federal law allows the M-169 suppressed upper receiver assembly to be attached to a lawfully owned and registered fully automatic M16 type rifle. However, with regard to semiautomatic AR-15 type rifles, federal law interprets a silencer as also being a "flash suppressor" and therefore prohibits this upper receiver from being attached to, or even associated with, any AR-15 type semiautomatic rifle that was manufactured after September 13, 1994 (commonly referred to as a "post-ban" rifle). In addition, since the barrel and baffle stack assembly are not permanently assembled and the barrel itself is less than 16" long, the M-169 must not be attached to or associated with any semiautomatic rifle that is not lawfully registered with the BATF as a "short barreled rifle." LRM warrants that the original transfer of this suppressed barrel unit/upper receiver assembly to the original purchaser was in accordance with all known NFA and other federal and local laws at the time of the transfer. However, it must be remembered that any subsequent transfer of the M-169 from the original or a subsequent purchaser to another person must also be in accordance with then-current NFA rules, as well as with any federal, state or local laws. If any owner/possessor of the M-169 has any uncertainty with regard to any laws which may impact the legality of the ownership, possession, transfer and/or use of the M-169, the owner/possessor is urged to contact the Bureau of Alcohol, Tobacco and Firearms immediately for advice. Failure to comply with the NFA is a felony! Since laws may change over time with regard to the ownership, possession, transfer, and use of firearms and/or NFA-regulated items such as the M-169, it is your responsibility alone to contact the BATF and any other applicable federal, state or local authorities to ensure that you are in compliance with all applicable laws at all times.*

**Thank you** for purchasing a new LRM Custom Firearms & Suppressors M-169 integrally suppressed 9mm upper receiver system!

The M-169 is a custom designed and assembled precision instrument constructed of the highest quality materials and machined to exacting tolerances. It is simple to maintain and should deliver a lifetime of reliable, unparalleled suppressed performance.

The M-169 system comes standard with a complete "flat top" type upper receiver, charging handle, ejection port cover, bolt, barrel, baffle stack, suppressor tube and ventilated aluminum handguard, all factory assembled and finished in a durable, professional non-reflective finish. Also included as standard is a unique removeable 9mm magazine adapter which allows your receiver to accept Colt 9mm magazines or slightly modified Uzi magazines without permanent modifications to the lower receiver.

The M-169 was designed to utilize standard, inexpensive and widely available 115 gn. or 124 gn. 9mm ball ammunition. There is no need to use special "subsonic" ammunition in your M-169. The design employs a unique propellant gas "bleedoff" feature which serves to bring standard 9mm ball ammunition down to subsonic levels, eliminating hypersonic "crack," while at the same time drastically reducing the severity of the velocity of escaping gases. The combination of these two factors translates into extremely efficient and phenomenal levels of accurate, reliable suppressed performance.

Another unique feature of the M-169's internal baffle stack design makes it virtually impossible for the suppressor baffles to ever become loose, distorted, or misaligned from the centerline of the bore, which are common problems in other types of suppressor systems.

In addition, the M-169's design enables it to retain a relatively long portion of rifled barrel which has been found to significantly enhance accuracy as compared to other suppressor systems which rely on extremely short barrels to achieve subsonic performance.

#### OPERATION OF THE M-169

The M-169 operates like any other M16-type upper receiver assembly. It pins onto the M16 lower receiver, and the magazine well adapter is inserted into the lower receiver. A 9mm magazine can then be inserted into the magazine well and the rifle will operate in the conventional manner.

**IMPORTANT!** Please refer to the rifle's original Owner's Manual for important safety, functioning, and other important information regarding the safe and proper use of the M16 type rifle before using your M-169!

## CLEANING AND MAINTENANCE

The M-169's suppressor component requires no special cleaning or maintenance. The only care the suppressor/baffle stack assembly may require is an occasional brushing with a dry (un-oiled) close-fitting bronze bore brush to remove any noticeable buildup in the baffle assembly. With an unloaded gun, the brush should be firmly attached to a cleaning rod, inserted into the muzzle and pushed all the way through to the chamber, then pulled all the way back out. Two or three passes is usually sufficient to clean out any buildup. WARNING--DO NOT try to run a fabric patch of any kind through the barrel, as it will likely become stuck in the baffle assembly. If the M-169 is fired with a patch or a piece of patch or any other foreign object anywhere in the baffle section, the passing bullet may contact it, become de-stabilized, and strike the baffles or endcap, causing damage and/or a dangerous condition.

It is recommended that the chamber be periodically brushed and wiped from the rear of the upper receiver with an oiled patch to ensure maximum reliability.

The M-169's outer barrel tube and barrel/baffle assembly is semi-permanently assembled. There is no need to disassemble it and disassembly is not recommended. Further, you will note that the suppressor tube has LRM information and a serial number engraved on it. This is required under the NFA and these markings must not be altered or obscured.

## TIPS - READ BEFORE USING YOUR M-169

**Below are some tips that are applicable to suppressor use in general, as well as general firearms safety tips. Also read the entire original Owner's Manual that came with your M16 type rifle.**

1) Only use 9mm ammunition in good condition. It is suggested that the owner experiment with several different brands of ammunition to find the particular brand or style that gives the best accuracy and function in his or her particular M-169.

If you experience an occasional loud "crack" with any particular ammunition, this is almost certainly caused by the bullet going too fast, beyond the sound barrier, causing a supersonic "crack" as it passes through the air. The sound actually comes from the bullet after it has left the gun, not from the gun itself. The M-169 is designed so that most 9mm ball ammunition leaves the gun at just-under supersonic speed so as to avoid this phenomenon but still deliver a powerful blow to the target. Therefore, it is possible that some specific types or lots of 9mm ball ammunition is loaded "hotter" than others, making the bullets go supersonic. If you are experiencing this, try switching ammunition and the problem should go away. If this phenomenon persists, contact LRM for advice.

2) Baffle strikes: A baffle strike is a situation that occurs when the bullet comes into contact with one or more of the baffles or the endcap as it passes out of the bore and through the suppressor section. If your M-169 is experiencing baffle strikes, there are two obvious ways to detect this

situation while shooting. The first is that you will hear a distinct “whirring” or “buzzing” sound of the bullet as it travels downrange. This is not to be confused with ricochet sounds made by the bullet AFTER it has hit the target, but when it is in flight from the gun to the target. This is most easily heard when shooting at a target over 50 m. away. The second obvious indication of a baffle strike is a significant deterioration of accuracy. For example, if the M-169 begins to fire extremely large groups, or if you are experiencing “flyers” far outside of normal grouping, this is not normal and the cause may be baffle strikes. Try switching to different brand of ammunition. Also, make sure the optical sight mounts are tight. If the problem persists, contact LRM for further instruction.

3) Hearing and eye protection--Always wear shooting glasses to protect your eyes. As for hearing protection, even though the M-169 delivers an outstanding level of sound suppression, be aware that it still may produce enough of a sound impulse that can be damaging to the human ear if one uses the M-169 in extended shooting sessions and/or in a confined area. If at any time you notice that shooting the M-169 seems to be bothering your ears, it is highly recommended that you immediately use some type of hearing protection.

4) Safety--Remember that the M-169 only suppresses the sound of the gun's report. Even though it may *sound* much less powerful because it is so much quieter, it is not--it must be given the same respect that any other non-suppressed firearm commands, i.e. you need to be sure of your target, backstop, and never point the gun at anything you don't want to shoot. Only load the M-169 when you are ready to shoot, keep your finger off the trigger until you are ready to shoot, and when you are not shooting your M-169, keep it stored safely and separately from the ammunition and out of the reach of children. (See the M-16 type rifle's original Owner's Manual for a more complete overview of safety matters.)

## WARRANTY AND DISCLAIMER

LRM Custom Firearms and Suppressors will repair or replace free of charge any component manufactured by LRM for defects in materials and workmanship. It offers no other warranty, express or implied.

LRM Custom Firearms and Suppressors nor it's owners or principals are responsible for any damages or injuries sustained as a result of using this product. The owner/possessor of the M-169 assumes all responsibility for compliance with all NFA rules as well as any other federal, state or local laws regulating the ownership, possession, use, or transport of a suppressor and/or automatic/semiautomatic rifle or firearm, as well as for any damage or injury resulting from the use of the host firearm and/or suppressor.

**This manual must accompany the M-169 in any subsequent transfer.**

Contact information:

LRM Custom Firearms and Suppressors  
1406 Capital Circle N.E. #D  
Tallahassee, FL 32308

Phone/fax: (850) 877-9815  
Website: [lrmfirearms.com](http://lrmfirearms.com)  
E-mail: [lee@lrmfirearms.com](mailto:lee@lrmfirearms.com)