

MSX **SUPPRESSORS**

BY MAXIM DEFENSE



DSX OPERATOR'S MANUAL

DSX-D, DSX-QD, DSX-HD, DSX-HQD



MAXIM
DEFENSE®

Maxim Defense Industries, LLC was born with the mission of being a 21st century defense development company striving to give the military and law enforcement the next generation of tools and equipment that exceed in today's extreme environments.

Our mission is focused on the Special Operation Forces community and developing products that are purpose designed and duty built to meet or exceed demanding challenges they face in this dangerous world.

Our development efforts are focused on servicing this community, but we are also committed to our commercial clients and customers, for without their support we could not achieve our mission of helping those that are down range and in harm's way.

At Maxim Defense we are dedicated to the design and production of only the highest grade in performance firearms and to protect you, who protect us and our liberties selflessly every day.

Michael G. Windfeldt
President & CEO
Maxim Defense Industries LLC



MSX **SUPPRESSORS**

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Before using this suppressor, be certain you have read and understand this manual in its entirety.

Warning: Because sound suppressed weapons make less noise than non-suppressed weapons, it is easy to forget they are still firearms. It is vital importance to remember that a sound suppressed firearm is just as dangerous as a non-suppressed firearm, and the same safe handling requirements apply.

WARRANTY STATEMENT

Warning: Failure to follow installation and maintenance instructions detailed in this manual can result in potentially serious injury to the user and damage to the weapon. Firearm sound suppressors are user attached firearm muzzle devices, and as such are subject to improper attachment unless the proper procedures outlined in this manual are followed.

MANUFACTURER'S DISCLAIMER

The manufacturer is not responsible for improper usage of this product. This product is potentially dangerous, and as such it is the user's responsibility to understand and implement its proper use. If you do not understand the instructions in this manual, please contact the manufacturer for further clarification.

CAUTION: Before performing any maintenance operation, always remove the magazine from the firearm, open the action, and visually ascertain that the chamber is empty, and the weapon is unloaded. Failure to do so can result in potential for serious injury to the user and others.

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

Never use a patch to clean the barrel with the suppressor MonoKore in place, as the patch may become lodged in the MonoKore baffle system.

For suppressor installation, torque should not be above 40 ft*lb, but not below 25 ft*lb (firmly hand tight). This suppressor seats on the muzzle of the barrel, use an appropriate alignment rod to guarantee suppressor alignment prior to shooting.

It is recommended that the user periodically ensure that the suppressor is tight. To do so: cease fire, unload and visually and physically inspect the firearm to be clear and safe, then allow the suppressor to cool to ambient temperature and only then try and tighten the suppressor by hand (turning clockwise).

WARNING: suppressors are VERY HOT under fire. Never attempt to see if the suppressor is tight soon after it has been fired, as there is nothing that can protect your hand while grabbing a metal object that is as hot as a suppressor can get. It is always safest to allow the suppressor to cool all the way to room temperature to check that it is still torqued in place.

SAFETY INFORMATION

4 FIREARM SAFETY RULES:

1. Treat every weapon as if it were loaded.
2. Never point a weapon at anything you do not intend to shoot.
3. Keep your finger straight and off the trigger until you intend to fire.
4. Keep the safety on until you are ready to fire.

ADDITIONAL SAFETY CONSIDERATIONS:

The Safety Selector should remain on "Safe" until you are ready to "Fire", then placed back on "Safe".

WARNING: It is your responsibility to reference and obey all Federal, State and Local laws and regulations on the possession, carriage and discharge of firearms. Law Enforcement and Military consumers, you are responsible for referencing and obeying the policies of your respective agencies that apply to the carry and use of this firearm.

Disclaimer: Maxim Defense assumes no liability or responsibility for the misuse, criminal use, nefarious activity with, or negligent use of this firearm. Maxim Defense encourages the user to seek further professional firearms training.

CAPABILITIES

Maxim Defense Industries Firearm Silencers are designed to dominate close-quarter encounters with maximum energy on target and handle the fierce demands of the Tier 1 Community. Our unprecedented concealability allows for the maneuverability needed in offensive/defensive direct-action engagements.

DSX

Standing for Duty Suppressor System, is constructed of 17-4 stainless steel (MonoKore) and 6AL-4V titanium (mount body and tube).

DIMENSIONS (ASSEMBLED)

Length..... 7.9 inches
Diameter..... 1.75 inches
Outer Diameter At Spring 1.81 inches
Weight..... 22 ounces (*may vary depending on mount*)

COATINGS

Tube Cerakote®
MonoKore Cerakote®
Mount..... Richter

RATING

CALIBER	FIRING TABLE	BARREL LENGTH
5.56	Full Auto	8.5" for full auto
6.5 CM	Full Auto	8.5" for full auto
.308 WIN	Full Auto	8.5" for full auto

The DSX suppressor contains no packing materials within the suppressor, i.e. liquid ablative agents, rubber or leather wipes, etc. This suppressor was designed to meet operational requirements of the US SOCOM M4 suppressor. The suppressor was not designed to be used with ablative agents or artificial atmosphere, but the presence of fluids within the suppressor ARE detrimental to its operation.

INSTALLATION

Ensure the suppressor is correctly oriented for installation and removal, with only one proper alignment. Prior to usage, it is essential to securely affix the suppressor onto the firearm. Failing to do so may lead to potential damage to both your firearm and the suppressor.

Conduct a visual inspection of the suppressor post-installation to verify that it is perfectly aligned with the centerline of the bore and not tilted in any way. Should you observe any misalignment between the suppressor and the bore, immediately halt the installation process and contact our Customer Service Department.

Utilizing the suppressor when it is improperly mounted could result in irreversible damage to your suppressor, resulting in suboptimal performance and diminished accuracy.

DISASSEMBLY



A retention spring is fitted into a groove where a small portion extends through notches that line up between the mount and the tube of the suppressor. This is a secondary retention system. **DO NOT ATTEMPT TO DISASSEMBLE THE SUPPRESSOR WITHOUT REMOVING THE RETENTION SPRING.**



Using anything non-metallic, even a fingernail, push the straight end of the spring in the groove. This will cause a portion of the spring to lift up. With the other hand, use the same tool to pick the bent portion of the spring and lift it out of its groove

Being careful while removing and installing the retention spring will prevent scratches on the mount body portion of the suppressor and the tube.



Remove the spring and set it aside until after the cleaning and maintenance is completed.



After the retention spring is removed, the suppressor tube may be removed. The suppressor tube is torqued into place at 40 Ft*lbs, so removing the suppressor tube will require a vice and a way to hold a tool.



There are several tools that may be used to disassemble the DSX-D suppressor. As pictured to the left, a 1" wrench secured in a vice may be used to secure the mount portion of the suppressor. A driver with a 1" socket may alternatively be used.



Once the suppressor mount is secured in a rigid tool, use a driver and a 1 1/4 socket or a wrench, turn the tool feature on the front of the suppressor tube counterclockwise to unthread it.



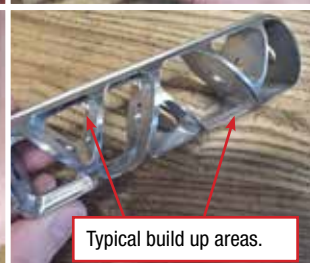
Remove the suppressor tube and set it aside. The interior of the suppressor tube may be cleaned at this time, as well as the interior of the suppressor core. There are many surfaces of the suppressor core that can / should be cleaned periodically.

At this point, all of the suppressor components can be fully serviced. It is possible to remove the suppressor core, but in general it is not recommended to do so. Simply scrub and brush deposits away from accessible interior surfaces of the MonoKore.

If you feel the need to remove the suppressor core from the mount, there is a 7/8" socket / wrench tool feature on the front of the MonoKore. The MonoKore is threaded into the mount with left hand threads (reverse from normal right hand threads). The MonoKore is threaded into the mount and torqued at 30 ft*lbs.



Typical build up areas are removed when the tube is removed.



Typical build up areas.

When fully cleaned, the interior of the tube will still have visible carbon deposits. It will not be possible to get all of them off. The best way to clean the carbon off of the interior of the tube is to turn the tube around the MonoKore. Unthreading the suppressor tube and removing the tube from the mount and core assembly should remove most of the carbon deposits that need attention.

If it seems abnormally difficult to get apart, contact the Maxim Defense Customer Support Team.

The suppressor tube should always be removed after use once the suppressor has allowed to cool to ambient temperature. By removing the retention spring then unthreading the suppressor tube, carbon cutting features on the top and bottom of the MonoKore break carbon deposits off of the inside of the tube.

REASSEMBLY

After the suppressor has been cleaned / serviced it may be reassembled. In order to reassemble the suppressor, hold the suppressor in the same way as it was held during disassembly.

If the MonoKore was removed, thread the MonoKore into the mount by hand. Remember that the threads between the mount and the MonoKore are left hand threads and turn in the opposite direction as normal threads.



Use a torque wrench set to 30 ft*lbs, torque the MonoKore to the mount.



Once the MonoKore is torqued in place, or in the normal case of not having removed it, slide the suppressor tube over the MonoKore and thread the tube onto the mount by hand.



With a torque wrench and a 1 1/4" socket or crow's foot attachment, torque the suppressor tube to the mount with 40 ft*lbs.




Once the suppressor is fully maintained, assembled, and torqued, the retention spring may now be reinstalled.

One simple way to install the retention spring is to sit the suppressor on a work bench pointed down.



Spread the spring and slide it over the mount as shown.




Lift this side up to prevent scratches.

Place spring end into aligned notch

Hold spring in place.

Place the straight end of the spring in the spring groove. Hold that end in place in the groove with a thumb or finger.

With the other hand, lift the other end of the spring up and into the spring groove and place it in the slot that lines up with the tube, as shown.



Of the three spring notches in the mount, only one of them will fully line up with a notch on the tube when the tube is fully torqued into place. As shown above, the angled portion of the retention spring is correctly and fully seated into its position.

DSX-HD/DSX-HQD

The DSX-HD/DSX-HQD suppressor has only one main difference: A threaded insert for a mount of the user's choice. The choices include 1/2x28, 5/8x24, or QD adapter (other choices can be found at maximdefense.com/suppressor-accessories), depending on the caliber that the customer purchased



1/2x28



5/8x24




QD

The direct thread mount is threaded into the mount body with 30 ft*lbs of torque.



The mount body is threaded with the industry standardized 1 3/8-24 threads and will receive any number of quickmounts made available by the wider silencer industry.



In order to remove the factory installed direct thread mount from the DSX-HD/DSX-HQD, hold the silencer firmly and using a 1" wrench or socket, or a 1 3/16" for the QD, unthread the direct thread mount. If you cannot get the direct thread mount off, you may secure the silencer in a vice equipped with soft jaws.



The primary tool feature that the customer should always use is the 1" wrench / socket tool, or a 1 3/16" for the QD, on the rear most portion of the direct thread mount.

CLEANING AND PREVENTATIVE MAINTENANCE

With a variety of operational conditions and the varied pressures of ammunition, your firearm should be cleaned and inspected after each use. To maintain optimal performance, a Preventative Maintenance Program must be established and followed.

Maxim Defense Industries only recommend Lubrication and Cleaning Solvents that are designed for firearms to be used with auto-loading pistols as shipped, and with special adapters, they may be used with pistol caliber carbines if they are chambered in rated calibers for this silencer.

WARNING: Always Unload and CLEAR your firearm before maintenance and cleaning. DO NOT mix parts from one firearm silencer with parts from another firearm silencer. Parts are not interchangeable unless specifically designated as such. DO NOT mix lubricants on the same firearm or firearm silencer. The User is responsible for following all instruction for the safe use of Lubricants and Solvents.

NOTE: The term “CLP”, “Cleaning Solvents” and Lubricant” in this manual are used interchangeably and are to be interpreted to mean that CLP, LSA, LAW can be utilized as applicable. The Firearm must be thoroughly cleaned during the change from one lubricant to another using a dry cleaning Solvent (SD). DO NOT mix lubricants on the same firearm.

RECOMMENDED TOOLS:

- Cleaning Solvent
 - Grease, universal, non-petroleum based (non-toxic recommended)
 - Nylon Bristle Brush
 - Small Arms Wiping Rags
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WARRANTY STATEMENT

The Magnuson-Moss Act (Public Law 93-637) does not require any seller or manufacturer of a consumer product to give a written warranty. It does provide that if a written warranty is given, it must be designated as “full” or as “limited” and sets minimum standards for a “full” warranty.

Maxim Defense has elected not to provide any written warranty, either “limited” or “full,” rather than to attempt to comply with the provisions of the Magnuson-Moss Act and the regulations issued thereunder.

There are certain implied warranties under state law with respect to sales of consumer goods. As the extent and interpretation of these implied warranties varies from state to state, you should refer to your state statutes.

Maxim Defense certifies that all sound suppressors manufactured by them are free of defects in materials or workmanship and meet manufacturing specifications at the time of manufacture. Maxim Defense disavows responsibility for damages resulting from neglect, abuse, or acts of war except those declared and authorized by the Senate of the United States of America.

Maxim Defense denies any liability resulting from the use, abuse, or criminal misuse of products manufactured or distributed.

NOTES

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

Never use a patch to clean the barrel with the suppressor in place, as the patch may become lodged in the baffle system.

For suppressor installation, torque should not be above 40 ft*lbs, but not below 25 ft*lbs (firmly hand tight).

It is recommended that the user periodically ensure that the suppressor is tight. To do so: cease fire, unload and visually and physically inspect the firearm to be clear and safe, then allow the suppressor to cool to ambient temperature and only then try and tighten the suppressor by hand (turning clockwise). The suppressor should be checked to ensure it is tight to the barrel after every magazine.

WARNING: Suppressors are VERY HOT under fire. Never attempt to see if the suppressor is tight soon after it has been fired, as there is nothing that can protect your hand while grabbing a metal object that is as hot as a suppressor can get. It is always safest to allow the suppressors to cool all the way to room temperature to check that it is still torqued in place.

WARRANTY, SERVICE, AND TECHNICAL REFERENCE INFORMATION

For current warranty information please refer to our website: www.MaximDefense.com

WARRANTY

Before this firearm left the factory, it was carefully inspected, and test for safety and functionality. Maxim Defense Industries, LLC warrants the enclosed firearm to be manufactured free of defects in material. All firearms are assembled with the highest regard. Maxim Defense Industries agrees to correct any defect in the firearm for the original purchaser by repair, replacement, or adjustment, at the option of Maxim Defense Industries, LLC. This is a limited lifetime warranty for the original purchaser provided, with the proof of purchase receipt to original purchase date when making a claim.

The firearm was designed to function in its factory configuration. Maxim Defense Industries, LLC maintains the right to void all warranty coverage for this firearm if any part is added, substituted, or modified in any way. Maxim Defense Industries, LLC further maintains the right to void all warranty coverage where firearms have been disassembled beyond the scope of what is described within the User Manual. This does not apply to normal wear and tear of any parts, and it is the user's responsibility to follow the Preventative Maintenance as described on page 14. No implied warranties of any kind are made herein, and this warranty does not apply to any accessories including optics, illumination, or aiming devices that are added or attached to the firearm.

Please contact our Customer Service Department to make a claim.

STORAGE

Never leave any firearm in a manner that will allow visual or physical access to children, minors, or other inexperienced persons or, any person who is unauthorized to be in possession of a firearm. Maxim Defense Industries, LLC provides a new mechanical gun lock device with each firearm as a redundancy for safe firearm storage. More than one aspect of responsible storage should be utilized including storing your firearm unloaded and locked with the provided mechanical device, separate from any ammunition and inside of a lockable storage device.

INTEGRATED SILENCER

Maxim Defense Industries, LLC does not warranty, assume any liability or responsibility for damages incurred, or injury or property damage received from firing a Maxim Defense Industries firearm with a silencer not manufactured by Maxim Defense Industries, LLC. Maxim Defense Industries, LLC retains the right to void all warranty coverage of the WARRANTY, SERVICE AND TECHNICAL REFERENCE INFORMATION. For current warranty information, please refer to our website www.maximdefense.com. If technicians suspect that a silencer was not mounted correctly, to include but not limited to: following the silencer's manufacturer's recommended torque specification for installation, using the proper amount of and proper specific thread locker, checking alignment properly and with the proper tools, installing the silencer with the proper tools, etc. Please contact the manufacturer of your suppressor and inquire about compatibility with any of your firearms.

AMMUNITION

The use of hand loaded, reloaded, wildcat, frangible, fragmented ammunition, remanufactured, imported, low-quality steel cased ammunition or, incorrect caliber will void any warranty in our Firearms. The high pressures that are involved with incorrect ammunition not produced to SAAMI, NATO, or CIP specifications can cause death or serious bodily injury. Damage can result from the wrong ammunition, bore obstructions, powder overloads, or incorrect cartridge components. Maxim Defense Industries only recommends the use of High Quality, Commercially Manufactured, Domestically Produced, new ammunition that meets Sporting Arms and Ammunition Manufactures Institute (SAAM) or CIP ammunition specifications.

Ensure that the ammunition is in good condition, clean, dry, and undamaged prior to use.

To ensure our firearms pass the most rugged and demanding firing schedules and provide the highest quality shooting experience, Maxim Defense Industries, LLC researches and tests many of the most commonly available munitions on the market today.

PERSONAL PROTECTION EQUIPMENT (PPE) AND LEAD EXPOSURE

Discharging Firearms in poorly ventilated areas, cleaning firearms or handling ammunition may result in the exposure to lead and other substances. The use of Personal Protection Equipment such as gloves and eye protection is recommended to mitigate lead exposure. Wash your hands with soap and cold water after the use of firearms and before the consumption of any food or beverage.

Always use Eye and Hearing Protection when shooting or near others who are shooting. Failure to use proper hearing protection will cause permanent hearing damage to include permanent loss of hearing. Failure to use proper eye protection can result in damage to the eyes including the permanent loss of vision from high velocity flying particles, propellant gasses, ricocheting fragments, and other debris.

GENERAL LIABILITY

This is a firearm. Failure to follow any of these warnings provided may result in death or serious injury to you or others, as well as severe damage to the firearm and other property. It is the responsibility of the user of this firearm to ensure that they are in compliance with all local Municipal, County, State and, Federal Laws in the region that they are using this firearm. Failure to comply with local ordinances and or State or Federal laws may result in Fines and or Imprisonment. It is the responsibility of the end user to use this firearm in a safe and legal manner.

Maxim Defense Industries is not liable for any misuse, illegal use, unauthorized use of, criminal or negligent discharge, improper or careless handling, corrosion, unauthorized modifications, or other influences beyond Maxim Defense Industries, LLC's direct and immediate control. This limitation of liability applies regardless of whether liability is asserted on the basis of contract, negligence, or strict liability including any failure to warn. Under no circumstances shall Maxim Defense Industries LLC, be liable for incidental or consequential damages, such as but not limited to loss of earnings or profits, commercial loss, and loss of use of property.

SHOOTING PRECAUTIONS

Follow the four Firearm Safety Rules at all times.

Never consume alcohol or take drugs when handling firearms. Consult with a Physician if you are taking any medication to ensure that you are fit to handle and discharge a firearm safely.

Always be aware of the location of others around you while using your firearm. Spent cartridge shell casings are very hot and are ejected with enough force where they could cause injury by impact or burn.

When using a sling, maintain positive control of your firearm and ensure that the safety selector is on safe at all times.

If you experience a failure to fire, always keep the firearm pointed in a safe direction for at least 30 seconds. If a hang fire or a slow ignition were to have occurred, the round will fire within those 30 seconds. If the cartridge still does not fire after 30 seconds, manually cycle the bolt with the charging handle while maintaining safe muzzle management, move the selector switch to SAFE. Examine the primer of the cartridge to see if there is a firing pin indent that is similar to other discharged cases. Separate that cartridge for proper disposal.

CONTACT INFORMATION

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