



**MAXIM**  
DEFENSE®



OPERATOR'S MANUAL

**DSX** **SUPPRESSORS**

**PRS** **SUPPRESSORS**



**DSX** SUPPRESSORS



**PRS** 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.

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**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.

In general, it is advisable to use a small amount of blue Loctite® (243) on the barrel threads to install suppressors for duty use. For suppressor installation, torque should not be above 40 ft\*lb, but not below 25 ft\*lb (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).

*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.*

## DSX-D

Standing for Duty Suppressor System – Direct Thread, 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 inch  
Weight.....22 ounces

### COATINGS

Tube .....Cerakote®  
MonoKore .....Cerakote®  
Mount.....Diamond Like Coating (DLC)

### 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-D suppressor contains no packing materials within the suppressor, i.e. liquid abrasive 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 abrasive agents or artificial atmosphere, but the presence of fluids within the suppressor ARE detrimental to its operation.

### METHOD OF ASSEMBLY



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.



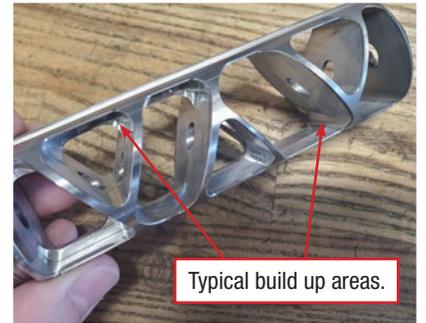
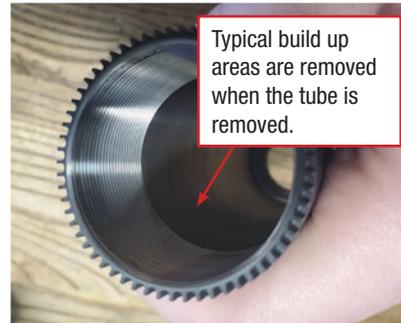
Once the suppressor mount is secured in a rigid tool, use a driver and a 1 ¼ socket or a wrench, turn the tool feature on the front of the suppressor tube counterclockwise to unthread it.



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. A small amount of blue Loctite 242 may be used if desired for the threads between the suppressor MonoKore and the mount.



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. It is generally recommended that a small dot of blue Loctite 242 be applied to the male threads on the MonoKore and on the female threads on 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.



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.

The DSX-M suppressor has only one main difference: A threaded insert for a mount of the user's choice. The DSX-M ships with a direct thread mount with either 1/2-28 or 5/8-24 threads, depending on the caliber that the customer purchased.

The direct thread mount is threaded into the mount body with 30 ft\*lbs of torque. It is advised that the user use a small amount of blue Loctite® 242 on the male and female threads of whatever mount that they choose to use on the suppressor.



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.

*NOTE: The DSX-M comes with a special tool to hold the mount body of the suppressor to ease the installation of your choice of mount.*



In order to remove the factory installed direct thread mount from the DSX-M, hold the silencer firmly and using a 1" wrench or socket, 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.



In case a 1" wrench cannot reach the primary tool feature, use a common screwdriver across both cuts, and unthread the direct thread mount.



Place the provided DSX-M assembly tool in a vice securely.

In the case that the user removes the suppressor from a firearm's barrel and the direct thread mount sticks to a barrel, there is a tool feature engineered into the front of the direct thread mount. The two small semi-circular cuts are intended to hold a common screwdriver.



The primary tool feature that the customer should always use is the 1" wrench / socket tool on the rear most portion of the direct thread mount. If it cannot be accessed because a hand-guard is in the way, this secondary tool feature may be used.

Shown below, a Dead Air KeyMo adapter has been selected for installation. This installs with a tool called a spanner wrench that is available from Dead Air.



Ensure the male and female threads of the Key-mo and the suppressor mount body are clean and free of debris or oil.

For installation instructions of the quick mount, follow the installation instructions provided the quick mount manufacturer, in this case by Dead Air.



During installation we recommend using a small dot of Loctite® 242 or similar thread locker on the male and female threads.



Shown is a fully assembled DSX-M equipped with a Dead Air KeyMo. Notice that there is no gap between the quick mount and the mount body of the suppressor.

## PRS

Standing for Precision Rifle Shooting is constructed of 7075-T6 aerospace grade aluminum (MonoKore, tube, and mount) and 6AL-4V titanium (thread insert).

### DIMENSIONS (ASSEMBLED)

Length .....7.9 inches  
Diameter.....1.75 inch  
Weight.....10.8 ounces

### COATINGS

Tube .....Type-III Hard Coat Anodizing  
MonoKore .....Type-III Hard Coat Anodizing  
Mount.....Type-III Hard Coat Anodizing

### RATING

CALIBER	FIRING TABLE	BARREL LENGTH
6.5 CM	CRoF	16"
.308 WIN	CRoF	16"

*\*CRoF, or Controlled Rate of Fire, is fire 20 rounds as fast as you can and allow the suppressor to cool to ambient temperature.*

The PRS suppressor contains no packing materials within the suppressor, i.e. liquid ablative agents, rubber or leather wipes, etc. This suppressor was designed to be the idea hunting and Precision Rifle Shooting 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.

### METHOD OF ASSEMBLY

The components of the PRS suppressor are roughly the same as the DSX-D suppressors, minus the tube retention spring. The PRS suppressor should be maintained in the same way as the DSX-D as well.

The only distinguishing part that the PRS suppressor has that the DSX-D does not have is a thread insert. The PRS has a precision thread insert to protect the threads. The thread insert is installed with a thread locker and is torqued into place with a special tool at the factory. DO NOT ATTEMPT TO REMOVE THE THREAD INSERT.



The tools required to assemble, disassemble, and maintain the PRS are the same tools that are required for the DSX-D. They include a 1" wrench or socket (mount), a 1 1/4" wrench or socket (tube), and a 7/8" wrench or socket (MonoKore).



To disassemble the PRS, begin by securing the 1" socket and driver or wrench in a vice, as shown. This will serve as the holding point for the mount portion of the suppressor.



Using a driver and a 1 1/4" socket or a 1 1/4" wrench, unthread the suppressor tube. It will take some force to unthread the suppressor tube. If the tube seems very hard to remove, you may put some solvent or oil into the suppressor in order to aid disassembly. This may happen if the suppressor has not been maintained properly. Maintaining the suppressor often will prevent this from happening for the most part.



When unthreading the tube, it is common to see some particles and material in the threads. This is normal and can be cleaned with a small amount of a firearms solvent of your choice and a nylon brush.



Once the tube is unthreaded, it will pull away from the rest of the suppressor assembly. What is left is the MonoKore threaded into the mount. It is not necessary to remove the MonoKore from the mount unless there is a mechanical problem with the parts. If this is the case, contact customer service at Maxim Defense and an experienced technician will instruct you what to do, or have you to send the suppressor in to the Maxim Defense service department for inspection or repair.



Once apart, the only things that you need to clean are the deposits off of the interior and exterior surfaces on the MonoKore, and the interior surfaces of the tube. Use only firearms solvents, nylon brushes, and rags/towels. **DO NOT USE METAL BRUSHES OF ANY KIND.**

## REASSEMBLY

*NOTE: THE SUPPRESSOR MUST BE DRY BEFORE REASSEMBLY.*



In order to reinstall the tube properly, it must be torqued to 30 ft\*lbs.



Slide the tube over the MonoKore and thread the tube until it seats against the mount.



Using a torque wrench and the 1 1/4" socket, torque the tube into place.



When assembly is completed the suppressor is ready to be used again. The PRS should be maintained in this way each time after a range day if possible. If the PRS is not at a minimum disassembled in the described way between range days, carbon deposits can build up on the interior surfaces of the suppressor and harden making disassembly progressively more difficult.

## 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.



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