



**MAXIM**  
DEFENSE®



OWNER'S MANUAL

**MK IV SD**



**MSX** *SUPPRESSORS*



## CONTENTS

<b>MS-22</b>	<b>4</b>
Product Details	4
Method of Assembly	4-5
<b>MKIV-SD</b>	<b>6</b>
Product Details	6
Disassembly and Cleaning	6-8
Reassembly	9
<b>Ammunition Recommendations</b>	<b>10</b>
<b>Warranty</b>	<b>11</b>

***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).

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.*

## MS-22

Constructed of 7075-T6 aluminum (tube and MonoKore) and 6AL-4V titanium (mount).

### DIMENSIONS (ASSEMBLED)

Length.....5.9 inches  
Diameter.....1 inch  
Weight.....3.5 ounces

### COATINGS

Tube .....Type-III hard coat anodizing  
MonoKore .....Type-III hard coat anodizing  
Mount.....Diamond Like Coating (DLC)

### RATING

.17 HMR semi-auto  
.22 WRF (magnum) semi-auto  
.22 LR full auto (no barrel length requirement)

The MS-22 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 MKIV-SD suppressed system. The suppressor was not designed to be used with ablative agents or artificial atmosphere, but the presence of fluids within the suppressor are not detrimental to its operation.

### METHOD OF ASSEMBLY



The suppressor tube is torqued to the mount and red (permanent) Loctite® is used to bind them together. If there is a problem, return the suppressor to the factory where experienced technicians can separate and replace these components.



The suppressor MonoKore is threaded into the suppressor tube. The threads are standard right-hand threads. The threaded end of the suppressor MonoKore has a knurled portion to ease removal and installation for maintenance.



If the MonoKore is stuck within the tube, the front of the MonoKore is a tool feature that fits a 1/2" socket and the rear of the suppressor has a 3/4" socket feature. If further leverage is needed please contact Maxim Defense Customer Support.

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



Once the MonoKore has been removed, it can be lightly tapped, or scrubbed with a nylon brush and a firearms solvent of your choice.



After maintenance has been conducted, reinsert the MonoKore into the tube and thread it back into place. The MonoKore should not be threaded tighter than finger tight using the knurled portion of the front of the MonoKore.

It is strongly recommended that disassembly and cleaning be performed at intervals of 250 rounds or less. Longer intervals will result in greater difficulty removing the MonoKore from the tube assembly.

## MKIV-SD

Standing for Ruger MKIV-SD—Schalldämpfer, German for “sound suppressor”, the MKIV-SD is constructed of 4130 steel (tube and diffuser) and 7075-T6 aluminum (MonoKore).

### DIMENSIONS (ASSEMBLED)

Length: .....12.6 inches (complete upper assembly)

Diameter:.....1 inch

Weight: .....37 ounces (complete firearm with empty magazine)

### COATINGS

Tube: .....Cerakote

MonoKore: .....Cerakote

Rating:.....22 LR

The MKIV-SD is constructed as an integral suppressor on the Ruger MK-IV .22LR pistol. Utilizing a 7 inch long by 1 inch diameter suppressor tube, the appearance is that of a target bull barrel. It is constructed of 4130 steel tube. The baffle system are aluminum for increased efficiency. No packing materials are used in these units. Although designed to meet operational requirements without fluids or artificial environment, the presence of fluids within the suppressor are not detrimental to operation. First built in 1994 by Antares Technologies, Inc by Dr. Phil Dater, this 2022 model of the original Quantum permits total disassembly for optimum cleaning and maintenance by the user. Dr. Dater was involved in each step of the development of this integrally suppressed system.

### DISASSEMBLY & CLEANING

*NOTE: The suppressor MonoKore is threaded into the suppressor tube. The threads are standard right-hand threads. The threaded end of the MonoKore has a knurled portion to ease removal and installation for maintenance. If the MonoKore is stuck within the tube, the front of the MonoKore is a tool feature that fits a ½" socket.*

*The suppressor MonoKore should always be removed after use once it has allowed to cool to ambient temperature. By unthreading the MonoKore, carbon cutting features on the top and bottom of the MonoKore break carbon deposits off from the inside of the tube. Once the MonoKore has been removed, it can be lightly tapped, or scrubbed with a nylon brush and a firearms solvent of your choice. After maintenance has been conducted, reinsert the MonoKore into the tube and thread it back into place. The MonoKore should not be threaded tighter than finger tight using the knurled portion of the front of the MonoKore.*

*The MKIV-SD suppressor can be totally disassembled by the user for cleaning. It is strongly recommended that disassembly and cleaning be performed at intervals of 250 rounds or less. Longer intervals will result in greater difficulty removing the MonoKore from the tube assembly.*



Make the weapon safe.



Field strip pistol per the Ruger manual for the MKIV pistol.



The suppressor tube is hand tight to the barrel. Unthread the suppressor tube from the receiver.



The MonoKore is finger tight to the tube.



***WARNING:** Material that is cleaned out of a suppressor can potentially be toxic or otherwise dangerous. It should be disposed of appropriately, including the cleaning rags.*



Clean deposits free using a rag or nylon brush with a solvent or oil.



Once the barrel is unthreaded, the rear portion of the tube assembly and the barrel may be cleaned with a firearms solvent or oil of your choice. Using a brush or rag, clean the barrel assembly components shown. Do no remove the diffuser from the barrel assembly.



***CAUTION:** Be careful not to damage the O-ring. If the O-ring looks frayed or otherwise damaged, contact Maxim Defense Customer Service for a replacement.*

After the barrel assembly has been cleaned, oil the O-ring with a firearm oil of your choice. This will extend the life of the O-ring.

## REASSEMBLY

Once all of the components have been cleaned they may be reassembled.



Begin by threading the suppressor tube onto the barrel assembly.



Insert the suppressor core, and thread into place. Torque the suppressor core only finger tight.

Reassemble the suppressor as per the Ruger MK-IV pistol manual. At this point, function check the suppressed pistol as per the Ruger MK-IV pistol manual.

If there is a problem, return the suppressor to the factory where experienced technicians can separate and replace these components.

## AMMUNITION RECOMMENDATION

Special barrel modifications allow the use of standard and high velocity ammunition, although some subsonic ammunition may not cycle the weapon. Hyper velocity cartridges such as the CCI Stinger and Remington Yellow Jacket will cause an increase in sound signature. These cartridges should be avoided if possible. The weapon has been test fired with both CCI Minimag and CCI standard velocity ammunition. The user should also refer to the comments on ammunition in the manual supplied by Sturm, Ruger & Co.

## 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 at "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.



**MAXIM**  
DEFENSE®

[www.MAXIMDEFENSE.com](http://www.MAXIMDEFENSE.com)