

22 Sparrow

Operating and Cleaning Manual

Limited Lifetime Warranty

REPAIR POLICY

Should the sound suppressor require repair or modification, the owner should contact Silencerco either in writing or by telephone because many problems can be handled without returning the unit. If it is determined that the suppressor should be returned to the manufacturer for repair or modification, it should be shipped to Silencerco.

If repairs are required due to a defect in manufacturing or materials, there will be no charge for repairs.

LIMITED WARRANTY

Subject to any restrictions set forth herein, Silencerco agrees to replace and/or repair the 22Sparrow for an unlimited amount of time. This warranty covers repair, service and replacement of damaged product caused by normal use, free of charge, only at a Silencerco facility.

Should a suppressor require repair, the owner should contact Silencerco and make arrangements to return the suppressor. Customer must return damaged product with a legible copy of the approved ATF form and a legible written description of the problem, defect and/or malfunction. Please include in such written description the serial number of the product, and the events leading up to the issue including what ammunition has been used and any host weapons that have been used.

If Silencerco determines, in its sole and absolute discretion, that a returned suppressor is not covered under this warranty, for any reason, you may purchase a replacement product at 75% off the suggested retail price.

*** * * * WARNING * * * ***

Failure to follow installation and maintenance instructions detailed in this manual may result in serious personal injury 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. Do not attempt to use this product unless you have specific training and experience in the use of firearms.

Welcome

We at Silencerco hope that you enjoy the technological advancements that we have made to the 22Sparrow firearm sound suppressor. To provide for your safety and effective use of this suppressor, it is critical that the owner and any user of the suppressor read this entire manual and follow strictly the warnings and instructions in it. This suppressor is intended to be used only by sophisticated users with experience and training in the use of firearms.

*** * * * WARNING * * * ***

Because sound suppressed firearms make less noise than non-suppressed firearms, it is easy to forget that they are still firearms and capable of causing bodily injury and property damage. It is of vital importance to remember that a sound suppressed firearm is just as dangerous as a non-suppressed firearm, and the same safe handling requirements that apply to a non-suppressed firearm apply to a suppressed firearm.

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 801-417-5384.

Multi-Part Containment Components



General Description of the 22Sparrow

The Silencerco 22Sparrow sound suppressor is the first silencer that allows you to disassemble and reassemble without the worry that lead, carbon and other buildup from general use will cause disassembly to be difficult or impossible. The Silencerco 22Sparrow sound suppressor utilizes patented Multi-Part Containment ("MPC") technology that allows you to disassemble the 22Sparrow by simply peeling the parts away from the baffles rather than sliding the parts over or twisting the parts around the baffles, as is common with our competitors' suppressors. The 22Sparrow has five distinct parts that make disassembly simple and effective, adding to the longevity of its use.

Monolithic Baffle Stack

The monolithic baffle stack used in the 22Sparrow is a unique patent pending design that is a result of rigorous research and development, as well as extensive sound and durability testing. The baffle stack is made 17-4 stainless steel that has been heat treated for maximum durability.

Multi-Part Containment

The most distinct feature of the 22Sparrow is the Multi-Part Containment ("MPC") technology that is made up of two half tubes, an outer tube, and back cap. The half tubes go around the baffle stack thus surrounding the baffles which works to seal off gasses, lead and carbon debris from exiting into the other components of the silencer. The outer tube then slides over the half tubes keeping the half tubes together. Assembly is completed by simply applying and tightening the back cap which holds all the components in place.

O-ring in Threads

The 22Sparrow features a O-ring groove in the female threads where the muzzle is attached. This groove is equipped with a .13 O-ring pre-installed for the engagement of our custom thread adapters which are available online at www.silencerco.com or at your local class 3 dealer.

*** * * * WARNING * * * ***

Before installing or removing the 22Sparrow sound suppressor from the host weapon, be sure that the weapon is unloaded, the magazine must be removed and the action is opened so that it is visibly clear of any ammunition. If you are at all unsure as to the proper procedures to ensure that your firearm is unloaded, please consult your firearm user's manual/instructions and/or contact a properly licensed dealer or the manufacturer of your weapon.

Installation

After confirming that your weapon is unloaded, with the action open, place the threaded end of the 22Sparrow suppressor in line with the threads at the end of the barrel and screw the suppressor onto the barrel of the weapon until the silencer has rested against the rear shoulder of threads on the barrel. Hand tighten only. Special care should be taken to prevent cross-threading.

The 22Sparrow mounts on conventional 1/2X28 (Class 3A) threads .400" in length. It is necessary for the threads on the host weapon to be absolutely concentric with the bore and must have a ninety degree (90°) rear shoulder perpendicular to the bore. Silencerco, LLC assumes no responsibility for any damage caused to the silencer, host weapon or other property or any other damage or bodily injury caused to persons due to poorly threaded barrels or if the silencer is improperly installed. For a detailed thread diagram log on to www.silencerco.com

*** * * * WARNING * * * ***

Failure to follow installation instructions detailed in this manual can result in potential for serious injury to the user and damage to the weapon.

If you are uncertain if the host weapons, threads are absolutely concentric, please consult a licensed firearms dealer or the manufacturer of the host weapon. Never, under any circumstances, attempt to use the 22Sparrow unless, among other things, you are absolutely certain of the 22Sparrow's proper fit on the host weapon. A suppressor will rest properly and

securely when, after turning freely upon the threads for several revolutions, the rear of the suppressor will come to rest on the shoulder of the barrels threads. Resistance from the suppressors contact to the shoulder prevents the suppressor from being turned further and no threads may be seen.

*** * * * WARNING * * * ***

Failure to ensure a proper fit of the 22Sparrow on the host weapon may lead to property damage and/or serious bodily injury.

Since thread mounting silencers are known to unscrew during firing, it is of the utmost importance that the operator frequently ensures the silencer remains securely threaded onto the barrel. The threading of the suppressor to the firearm should be checked at least after 30 discharges of the firearm.

*** * * * WARNING * * * ***

When removing the 22Sparrow, use extreme caution as it may be hot to the touch. Use gloves to avoid burns or other injuries.

Ammunition

The 22Sparrow is designed to suppress the de-corking noise and the muzzle blast but is not designed to address the sonic crack caused by the bullet breaking the sound barrier as it flies downrange. Because the 22Sparrow does not suppress sonic crack, standard velocity ammunition is recommended for best results since the velocity of such ammunition is just below the speed necessary for breaking the sound barrier. Also subsonic ammunition is good as well. We recommend CCI Standard Velocity and Subsonic as well as Winchester and Remington subsonic ammunition. We also approve of Aguilla 60 gr subsonic ammunition when use in rifles with the appropriate rate of twist. The new stainless steel 22sparrow is also rated for full auto fire using .22 LR. Please note, cheap, bulk pack ammunition is much more dirty causing more abrasion to the baffles and more lead build up. Experiment with ammo and find the cleanest. The stainless steel 22Sparrow is also rated for all .22 caliber or smaller remfire rounds as well as 5.7X28 FN. However, the 22Sparrow is not full auto rated for any caliber other than the .22 LR.

DISASSEMBLY

***** WARNING *****

Assembly and Disassembly should **NEVER** be performed while affixed in any manner on a host firearm. Always completely remove the 22Sparrow from the host firearm before assembly and/or disassembly is attempted.

***** DANGER *****

Before performing maintenance or removing and installing the suppressor, open the action, remove the magazine and be sure the chamber is empty. Failure to do so can result in property damage, injury or death.

Step 1-Loosen and remove the back cap from the suppressor by twisting the cap counter clockwise



Step 2-Slide outer tube off the half tubes and the baffle stack.

***** WARNING *****

The 22Sparrow is not intended to be used without all components properly assembled. Use of the 22Sparrow without all of its components properly assembled may result in property damage and/or serious bodily injury.



Step 3- Open half tubes by simply peeling them apart and away from the baffles.

Maintenance and Cleaning

Because of the way the 22Sparrow can be disassembled, it has the unique ability to be cleaned after light and/or heavy use in order to prolong the life and effectiveness of the suppressor. Suppressors that cannot be disassembled have substantial lead, carbon and other buildup that eventually renders these suppressor useless. The traditional sealed silencer design made by our competitors has a tendency to trap excess moisture and debris that may cause those silencers to be less effective and wear out more quickly than the 22Sparrow technology.

Although the 22Sparrow can be easily disassembled for cleaning we recommend the suppressor is cleaned after every 1000th round. Failure to clean the 22Sparrow after 1000 rounds could result in difficult disassembly. We also recommend that any time the suppressor is disassembled after use it should be cleaned before reassembly. After the lead and carbon builds up on the inner walls of the half tubes it is difficult to reassemble because debris will interfere with the tight and proper fit of the half tubes.

The stainless steel 22Sparrow can be disassembled and cleaned using solvents, ultra sonic tanks, light abrasive media/soda blasting or certain chemical dips. The use of abrasive pads, or wire brushes are acceptable as well but you should test it on a small, inconspicuous area to make sure there is no scratching to the metal finish. Clean, as noted herein, and dry all components of the suppressor and assemble completely before use.

***** CAUTION *****

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. Chemical dips are toxic as well so you must use skin and eye protection and regard all warning labels and dispose of any solutions according to local ordinances.

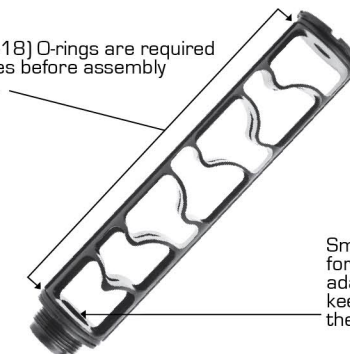
ASSEMBLY

***** Warning *****

If the suppressor is disassembled, the suppressor must be cleaned thoroughly before reassembly. This includes removing all debris from the surface of the half tubes. Failing to do so may result in added friction when assembly and disassembly are performed.

Step 1-Make sure the 22Sparrow's three O-rings are in the proper grooves. The two larger O-rings should be placed one on each end of the baffle stack in the appropriate grooves and the smaller O-ring should be in the back of the internal threads where the host firearm's muzzle threads engage.

Larger [-18] O-rings are required in grooves before assembly and use.



Small [-13] O-ring inside interior threads for engaging o-ring surface on Silencerco adapters. This o-ring is for the purpose of keeping muzzle threads clean and keeping the silencer from rotating loose while firing.

O-ring Sizes

Larger O-rings:	-18
Smaller O-ring	-13

Step 2-Place the two half tubes around the baffle stack so that the edges of the half tubes against the spline on the baffle stack and the ends are flush against the shoulder at the front of the baffles. Make sure the half tubes are tight against the spline before sliding the outer tube on.

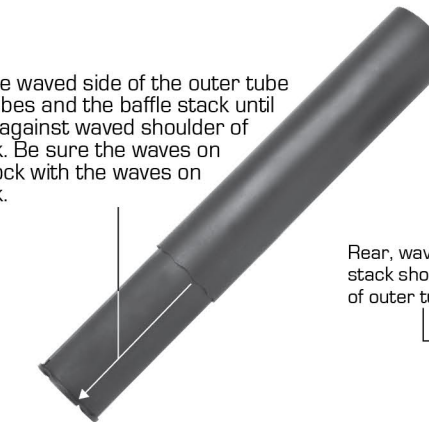


Edges of the half tubes should be flush against the spline on the baffle stack.



The ends of the half tubes should be flush against the shoulder at the front of the baffles

Step 3-Slide the waved side of the outer tube over the half tubes and the baffle stack until the tube rests against waved shoulder of the baffle stack. Be sure the waves on the tube interlock with the waves on the baffle stack.



Rear, waved shoulder of the baffle stack should interlock with waved end of outer tube.



Step 4-Apply back cap and tighten snugly by hand. Make sure as you are tightening the back cap that the waves of the tube and baffle stack remain interlocked.

It may help to thread the back cap on while holding the suppressor tightly around the outer tube and pressing firmly down with your thumb. This technique will keep the waves of the tube and baffle stack interlocked while you thread on the back cap. The waved features on the 22Sparrow keep the outer tube from rotating when you are attaching it to your firearm.



Note: if you have any question whatsoever about whether you are performing assembly, disassembly or cleaning of the suppressor properly and in accordance with these instructions, you may contact Silencerco customer service at 801-417-5384 or access our web site at www.silencerco.com.



Manufactured By:

22Sparrow Second Edition, 2010

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