



Operating and Cleaning Manual for the SWR Octane 45HD

Should a suppressor require repair, the owner should contact Silencerco/SWR 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/SWR 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.

REPAIR POLICY
Should the sound suppressor require repair or modification, the owner should contact Silencerco/SWR 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/SWR.

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/SWR agrees to replace and/or repair the suppressor 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/SWR facility.

LIMITATIONS TO WARRANTY: THIS WARRANTY DOES NOT COVER DAMAGE TO THE SUPPRESSOR OR THE HOST FIREARM RESULTING FROM CARELESS OR IRRESPONSIBLE HANDLING, ADJUSTMENTS OR MODIFICATIONS TO ITS DESIGN, IMPROPER HANDLING, NEGLIGENCE OR OTHER ABUSE. SILENCERCO/SWR ASSUMES NO LIABILITY WHATSOEVER FOR UNSAFE USE OF THE SUPPRESSOR OR FOR CRIMINAL USE BY ITS PURCHASER OR ANY OTHER PERSON THAT COMES IN CONTACT WITH THE PRODUCT AFTER PURCHASED. SILENCERCO/SWR ASSUMES NO RESPONSIBILITY FOR PHYSICAL OR MENTAL INJURY OR PROPERTY DAMAGE RESULTING FROM CARELESS OR IRRESPONSIBLE HANDLING AND/OR USE, OR BY ANY USE CONTRARY TO THE RECOMMENDATIONS, WARNINGS AND CAUTIONS GENERALLY LISTED IN THIS MANUAL. SILENCERCO/SWR DOES NOT COVER DAMAGE TO THE SUPPRESSOR OR THE HOST FIREARM RESULTING FROM IMPROPER HANDLOADED OR RELOADED AMMUNITION OR DEFECTIVE AMMUNITION. SILENCERCO/SWR ASSUMES NO RESPONSIBILITY FOR BAFFLE STRIKES WHICH WERE NOT CAUSED BY DEFECT IN WORKMANSHIP.

Limited Lifetime Warranty

* * * * 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 SWR hope that you enjoy the technological advancements that we have made to the Octane 45HD firearm sound suppressor. To provide for your safety and effective use of this suppressor, it is critical that the owner or 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 at 801-417-5384.

* * * * WARNING * * * *

Before installing or removing the Octane 45HD 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.

Mounting To Your Host Firearm

The SWR Octane 45HD attaches to the host firearm via several mounting options. SWR offers several different thread patterns to accommodate the industry standard threads. For proper alignment, it is essential that the suppressor thread against a 90° barrel shoulder. NOTE: During any of the following installations the mount / suppressor becomes tight before firmly seating against the machined shoulder or if it still feels loose after seating against the shoulder, STOP. DO NOT USE the suppressor in this condition and contact Silencerco/SWR.

Changing the Mounts

1. Unscrew and remove the spring retainer (end cap) from the rear of the Booster / Suppressor.
2. Align the appropriate mount to the back of the module.
3. Hand tighten the mount until it is seated securely against the rear of the suppressor.

NOTE: To assist in removal of the 3-LUG mount, the user may use an AR15 Stock Wrench, a Cleaning Rod, A drill bit, or a spanner wrench. SWR recommends the Martin Pin Spanner, Model 454 with a pin diameter of 7/32". These are available from McMaster Carr or Wholesale Tool.

* * * * 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.

Thread Mount / Booster Installation

The Thread Mount should be used on all fixed barreled host firearms. The Booster should be used on all Browning Action Pistols.

1. Verify the host firearm is unloaded.
2. Align the suppressor to the muzzle threads on the host firearm.
3. Hand tighten the suppressor until it is seated securely against the machined shoulder on your barrel or muzzle of the barrel. Do NOT force the suppressor onto the barrel.
4. Verify the host firearm is unloaded and unscrew the suppressor to remove.

3-LUG Mount Installation

The 3-Lug mount is a push-and-twist bayonet mounting system for use on all 9mm H&K Style 3-LUG equipped firearms.

1. Ensure that the firearm is unloaded and the magazine is removed.
2. Align the grooves on the silencer with the lugs on the barrel or adapter.
3. Pull the suppressor onto the barrel against the spring tension and rotate the suppressor counter-clockwise until it stops. Release the suppressor. It should move forward approximately 1/10" where it will rest against the lugs. Gently pull forward on the suppressor and twist from side to side to ensure a secure mounting.
4. To remove the suppressor, depress against the lugs and turn clock-wise. Pull the suppressor forward.

Since thread mounted 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.

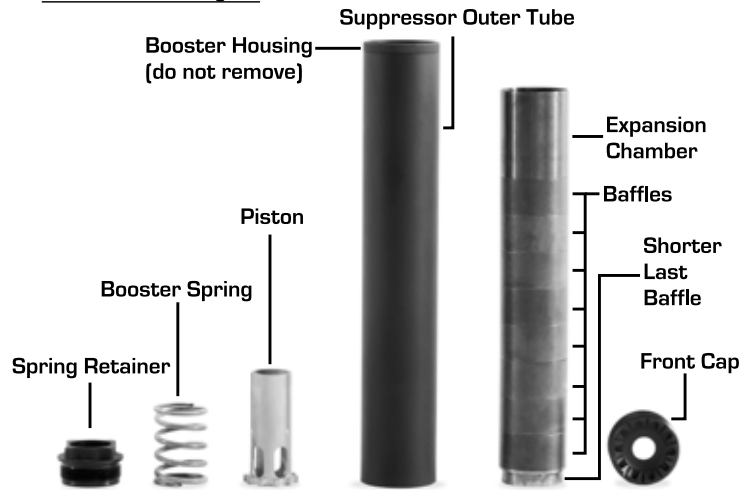
* * * * WARNING * * * *

When removing the Octane 45HD, use extreme caution as it may be hot to the touch. Use gloves to avoid burns or other injuries.

* * * * WARNING * * * *

Failure to ensure a proper fit of the Octane 45HD on the host weapon may lead to property damage and/or serious bodily injury.

Octane Parts Diagram



General Description and Overview of the Octane 45HD

The Octane 45HD offers a modular mounting system, capable of a variety of sub caliber options, in a compact, lightweight profile. The innovative high strength stainless steel CTA baffles allow it to be disassembled with ease and make the Octane 45 the most versatile and durable suppressor on the market. The SWR Octane 45HD sound suppressor module features an interchangeable mounting system allowing the use of the Octane 45HD on various hosts ranging from Semi Auto Pistols to carbines to Submachine guns. The Octane 45HD includes a recoil booster for use on Browning Action Pistols, the other mounts are optional.

The Octane 45HD suppressor, in its base configuration, should only be used on Browning action semiauto pistols as damage might occur if used on a host firearms with a fixed barrel. If the operator is using the Octane 45HD on a fixed barreled host firearm, please swap out the booster to one of the optional fixed mounts.

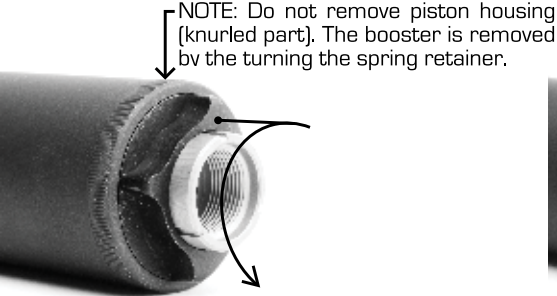
Do not hold the suppressor while firing. Ensure that any spectators are rearward of the firing line and are not standing beside the suppressor while it is in use.

The suppressors must be free of obstructions such as mud, dirt, ablative medium, etc. Do NOT attempt to shoot through an obstructed suppressor.

The SWR Octane 45HD may be fired "wet" or "dry". If you are going to shoot "wet" put a small amount (5 cc) of ablative medium into the back of the suppressor. Any weapon fitted with a suppressor will require more frequent cleaning due to the increased back pressure and subsequent carbon/powder fouling associated with suppressor use.

Octane 45HD Disassembly

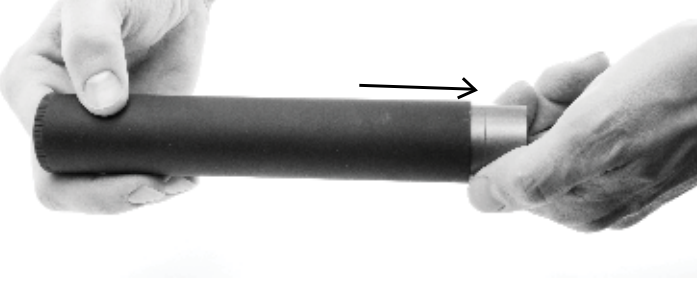
Step 1- Unscrew and remove the Booster from the rear of the suppressor / booster end cap.



***** 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 3- Using your finger, or a wooden dowel, push on the baffles from the booster end so that the baffles exit the front of the suppressor tube. Gently pull on the baffle stack to help get the stack out of the tube.



Helpful Hint- Sometimes the baffle stack may get hard to separate into individual baffles. If this happens, simply place an allen key into the cone end of the baffle with the shaft of the allen key in the notch of the cone. While holding the other baffles, pry away from the baffle stack.



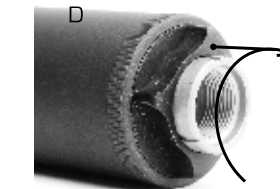
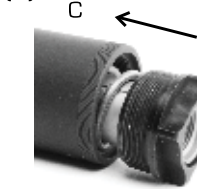
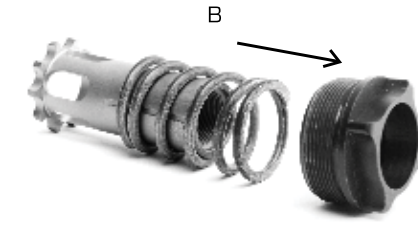
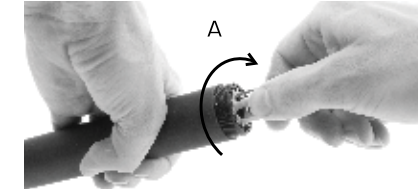
Step 2- Snap the expansion chamber on the end of the baffle stack. Make sure the ridge inside the expansion chamber is closest to the first cone of the baffle stack.



Note: For maximum performance, the expansion chamber "petals" should be indexed to the first baffle as shown.

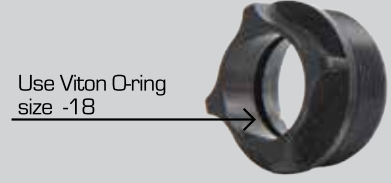


Step 4- Apply the front cap and tighten with the sproketed end of the piston (A) until it is hand tight. Then, assemble the booster (B) and insert it back into the suppressor (C) threading it in until hand tight (D).



O-ring maintenance and replacement- Inside the spring retainer there is an O-ring. The O-ring seals the gases from escaping the silencer when the piston is actuated from firing. This O-ring will have to be replaced from time to time. It is important to note that the Octane will function without the O-ring in place but for the most effective sound suppression it is needed. You will know when to replace it because you will see substantial wear and tear after heavy use or it may break and exit out the back of the silencer. At this point just simply disassemble the booster (refer to "disassembly of booster"

section) and insert new O-ring into the provided O-ring groove located on the inside of the spring retainer.



Tip
After use and before disassembling the booster, spray break free into the booster through the bore hole and through the piston vents so that the break free enters the inside of the booster assembly. This will allow the booster assembly to be removed from the silencer easier.

Step 2- Remove the spring retainer and spring from piston and use the piston to unscrew the front cap of the suppressor. This is done by lining up the sproketed end of the piston to the milled features of the suppressor's front cap.



Step 4- Pull apart the baffles one at a time until they are all separated.



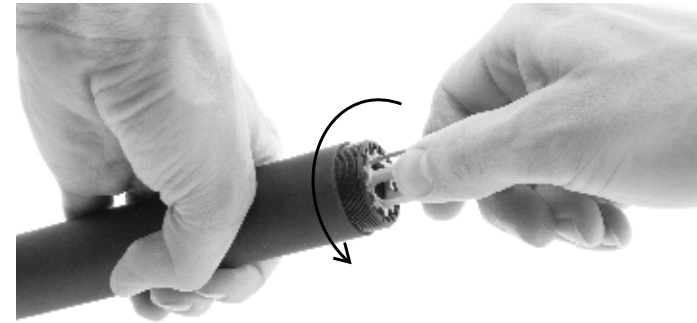
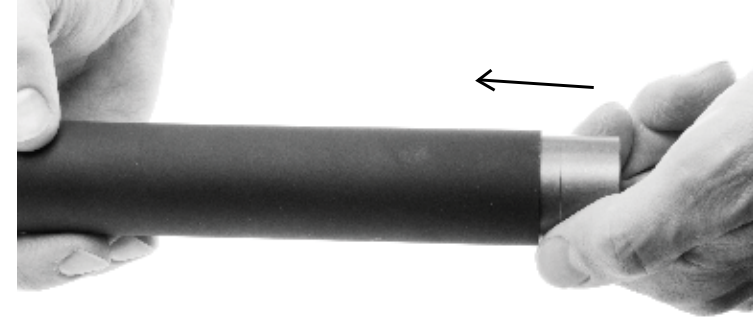
Octane 45HD Assembly

Step 1- Align all the baffles with the notch in the cone all in the same orientation. Then click baffles together insuring the notch remain in that orientation. All the baffles are the same and can go in any order. Apply force until you see that there is no gap between the baffles.



Step 3- Slide the baffle stack into the suppressor tube, expansion chamber first, until it stops against the booster housing inside the tube.

Note: The shorter last baffle fits inside and is installed during front cap installation.



Maintenance
The SWR Octane 45HD is designed to be disassembled by the end user. At intervals of approximately 500 rounds or whenever shot "wet", it is recommended that the suppressor be disassembled and all the individual components cleaned. Please follow the Disassembly / Assembly instructions and clean the individual components with your favorite cleaner. The stainless baffles, piston, and spring, may be cleaned in an ultrasonic cleaner.

Servicing the Booster
The booster / piston should be cleaned and re-lubricated after each firing session.
1. Remove Booster
2. Separate the 3 parts (piston, spring, spring retainer)
3. Use break free or another solvent to clean the piston and spring. Only use a rag to clean these parts.
4. Spray / Place a small amount of CLP, BreakFree, or light gun oil onto the threads and O-ring groove of the back cap.
5. Reassemble and replace the booster back into the suppressor.

***** 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 organic solvents.

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/SWR customer service at 801-417-5384 or access our web site at www.swrmfg.com.



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