

SWITCHBACK™ 22

FIELD MANUAL





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Warning

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

Because suppressed firearms make less noise than unsuppressed firearms, it is easy to forget that they are still firearms and capable of causing bodily injury and property damage. Remember, a suppressed firearm should be treated with the same safety and caution as an unsuppressed firearm.

Firearm silencers are user-attached firearm muzzle devices, and as such are subject to improper attachment issues unless the procedures outlined in this manual are followed precisely.

Before installing the silencer on the host firearm, be sure the firearm is unloaded and the action is opened so the firearm is visibly clear of any ammunition. If you are at all unsure as to the proper procedures to ensure your firearm is unloaded, please consult your firearm user's manual/instructions and/or contact a properly licensed dealer or the manufacturer or gunsmith of your firearm.

Check the fit between barrel and silencer before firing! The mount must be fully shouldered on the barrel. There should be no visible gap between the barrel shoulder and the face of the silencer thread mount. Poor accuracy and product damage may result if the silencer is not properly shouldered.

Silencers must be free of obstructions such as mud, dirt, etc. DO NOT attempt to shoot through an obstructed silencer. If submerged in water, the user must allow sufficient time to drain the silencer completely.

To ensure your silencer remains secure while firing, it is of the utmost importance that you frequently verify the silencer is securely tightened onto the barrel. We recommend checking the security of the attachment after 30 discharges of the firearm.

Before removing the silencer from the host firearm, be sure the firearm is unloaded and the action is opened so it is visibly clear of any ammunition. When removing the silencer, use extreme caution as it may be hot to the touch after firing. Use heat-resistant gloves to avoid burns or other injuries. Once the silencer is removed from the host firearm, SilencerCo recommends using a thread protector or other muzzle device to protect the muzzle threads and crown, during storage or transport.



Ammunition Selection

The silencer is designed to suppress the initial muzzle blast and subsequent projectile de-corking pressure. The silencer doesn't contact or otherwise interact with the bullet, allowing the projectile to travel at its default speed. Because of this, a sonic crack may be produced by the projectile as it breaks the sound barrier.

Depending on the geography of the area, the sonic crack may vary in volume. This is solely a function of the projectile breaking the sound barrier and is not related to product performance.

If desired, sonic crack can be avoided with the use of subsonic ammunition. Subsonic ammunition can be identified by a muzzle velocity that does not exceed the speed of sound. The speed of sound in an environment increases with temperature, and ranges between 1000 feet per second (at approx -40°F/-40°C) and 1200 feet per second (140°F/60°C).



Overview & Product Specs

The Switchback 22 is the best performing rimfire suppressor on the market. Modular, lightweight, with unmatched sound reduction, it provides three distinct lengths and is compatible with most common rimfire rounds. The Switchback 22 is constructed of two titanium tubes and stainless steel baffles, which utilize SilencerCo's Click Together Assembly (CTA) design. The design and combination of high strength materials ensure its longevity and durability even under hard use or full-auto rates of fire for its designated calibers.

The Switchback 22 was designed to be used "wet" or "dry." Shooting "wet" temporarily improves sound suppression by inserting a small amount of ablative media. This can be done by inserting about 5cc's (or a typical water bottle cap full) of clean water or clear wire pulling gel into the back of the silencer.

CALIBERS & RESTRICTIONS

22 LR, 17 WSM, 17 HMR, 22 WMR, 22 HORNET, 5.7 X 28 MM

MATERIALS

17-4 Stainless Steel & Grade 9 Titanium

DIAMETER

1.07"

	Length	Weight	Sound Average
LONG	5.75"	6.4 oz	114.0 dB Pistol ¹ / 107.8 dB Rifle ²
MED.	3.59"	4.3 oz	132.3 dB Pistol / 118.3 dB Rifle
SHORT	2.50"	3.2 oz	141.6 dB Pistol / 123.7 dB Rifle

Sound measurements taken on 16" barrel semi-automatic rifle and a 3.4" barrel semi-automatic pistol, using ASA standard testing methods with 22LR CCI Standard Velocity Ammo

¹Default Configuration

²Rifle Optimized Configuration

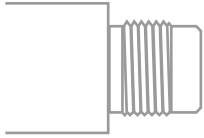
Included



SWITCHBACK 22

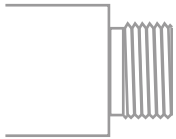


Rifle Thread Specs



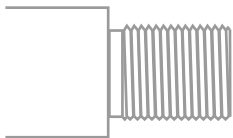
1/2 X 28 WITH O-RING ENGAGEMENT

SilencerCo recommended. All SilencerCo rimfire adapters and silencers are optimized for this thread spec, which enables use of an o-ring to keep threads clean, and prevent silencer from unthreading.



1/2 X 28 (.400" LENGTH)

SilencerCo approved, although no benefit of O-ring. Common factory thread spec among rimfire firearms.



1/2 X 28 (.600" LENGTH)

SilencerCo approved, but **RIFLE SPACER REQUIRED**

Long threads can cause misalignment which can result in silencer damage. Always use a rifle spacer on long threads like these. The Delta Thread Rifle Spacer (AC114) is required on threads .600" – .650" in length.

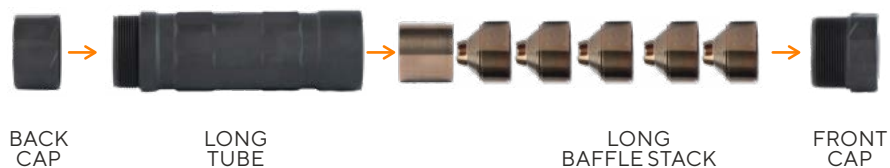


The Four Configurations

DEFAULT CONFIGURATION



MEDIUM CONFIGURATION



SHORT CONFIGURATION



RIFLE OPTIMIZED CONFIGURATION





Default Configuration



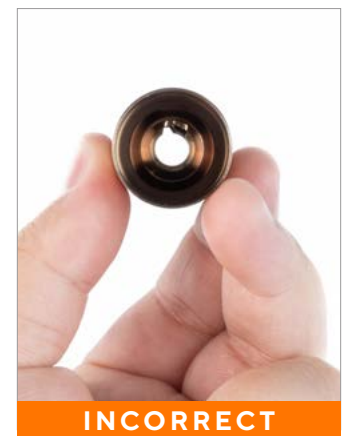
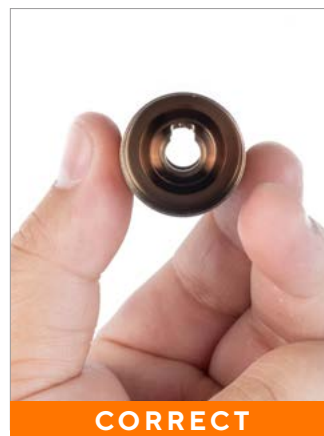
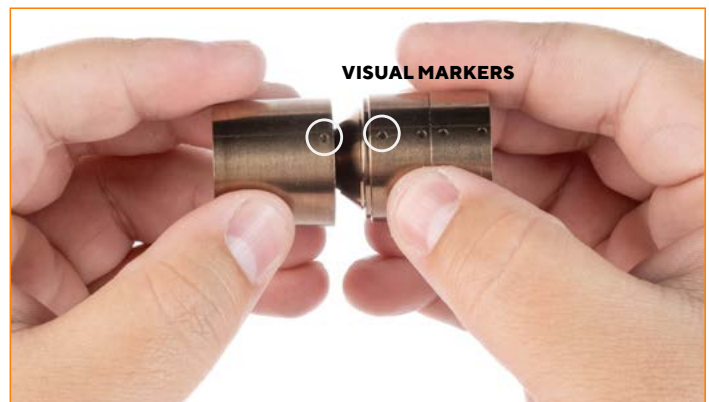
Thread back cap onto short tube. Gently snug the tubes together with the provided wrenches before inserting any baffles.

Slide the baffles into the short tube as seen above.

Be sure to align visual markers for best sound performance. When correctly aligned, you should be able to see a clear cutout down the bore as shown to the right.

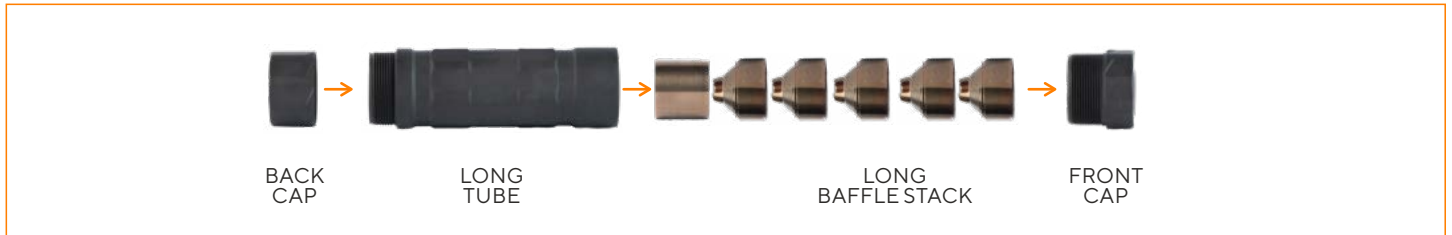
In similar fashion, assemble the baffles oriented as seen to the left. Insert the baffle stack into the front tube. Gently tighten the front cap down with provided wrenches.

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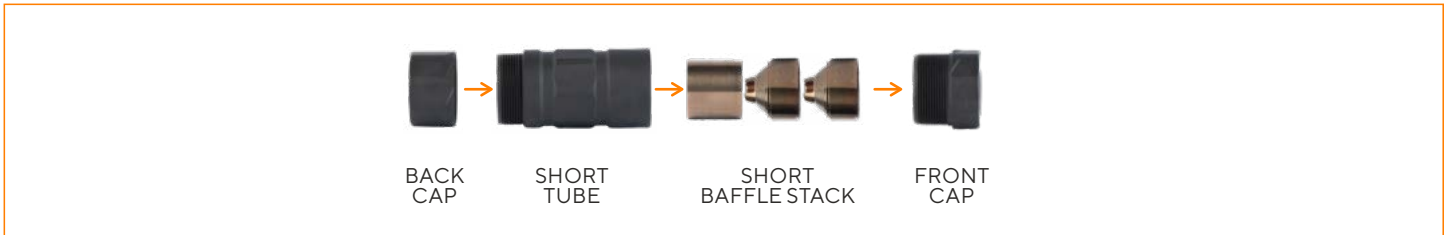
Medium Configuration



Using only the long tube, thread on the serialized back cap. Insert baffles as shown above. Replace the front cap and tighten with provided wrenches.



Short Configuration



Using only the short tube, thread on the serialized back cap. Insert baffles as shown above. Replace the front cap and tighten with provided wrenches.



Rifle Optimized Configuration



When using the Switchback on a 22LR firearm with a rifle-length barrel and subsonic ammunition, this configuration will typically reduce the peak sound level by 4 - 8 dB when compared to the Default Configuration, and all other top-performing rimfire silencers available. The difference may be small, but this makes the Switchback stand alone as the only silencer available to consistently meter below 110 dB with standard subsonic ammunition.

Using the Rifle-Optimized Configuration on barrels shorter than about 12", depending on ammo, will make the report LOUDER vs using the Default configuration.

Assembly is the same as Default Configuration, but with the long baffle stack reversed as shown to the left. Align all cutouts in the baffle cones for best performance.

Replace the front cap and tighten with provided wrenches.



Maintenance

The user-serviceable nature of the Switchback 22 makes cleaning quick and simple. We recommend cleaning the Switchback 22 every 1,000 rounds. Cleaning should also be performed when switching between .22LR and 5.7x28mm or after shooting with an ablative media.

WARNING

*Most fouling in 22 suppressors is lead and is **highly toxic**. Severe health problems can result from lead exposure. Use extreme caution when cleaning your suppressor. **Wear nitrile gloves and wear protective eyewear at all times, handle your components in a secure area, and thoroughly wash your hands with soap and cold water immediately after handling.***

BACK CAP

Always clean your back cap by hand. The back cap should NOT be soaked in chemicals or used in an ultrasonic cleaner due to the potential for damage to the finish and the **potential to erase the serial number**.

TUBES & FRONT CAP

The outer tubes can be easily cleaned or wiped out with a soft brush, paper towel, or rag. No significant fouling should be present inside the outer tubes due to their self-sealing and precise fit. It is not recommended to blast, dip, or ultrasonic clean the outer tubes or front cap, as it may damage or discolor the finish.

BAFFLES

Disassemble the Switchback 22 and clean using the following suggested methods. Air dry all components thoroughly before reassembling. Lightly coat the baffles with a quality oil after cleaning.

SCRUBBING (BAFFLES)

Use a nylon brush, q-tips, and rags or paper towels, etc, to scrub baffles clean. You may use various gun cleaning solvents and general CLP (cleaner/lubricant/protectant) as a cleaner. Dry, oil, and reassemble.

Abide by the safety precautions previously mentioned in this manual regarding lead at all times. Dispose of leaded materials in accordance with your local laws.

BLASTING (BAFFLES)

A blast cabinet or handheld soda blaster is required for this method. DO NOT blast parts with glass bead, aluminum oxide, or other hard media; this will damage your components. Note that your media will become exposed to lead during this process.

Make sure to use good containment, ventilation, gloves, and a breathing mask to protect yourself and those around you from airborne lead particulates. Dispose of contaminated blast media appropriately and in accordance with local, state, and federal regulations.



Maintenance

DIP (BAFFLES)

Paracetic Acid (AKA “The Dip”) is an off-the-shelf 50/50 mix of 3% hydrogen peroxide and 5% distilled white vinegar. This method dissolves lead.

WARNING

Do not use on any components other than the baffles. When Paracetic Acid reacts with lead, it results in Lead Acetate. This is toxic, corrosive, and is easily absorbed through exposed skin. Eye protection and impermeable gloves (such as disposable Nitrile gloves) must be worn at all times.

Soak baffles in a glass jar filled with The Dip. No scrubbing is needed. Keep in a well ventilated area away from any children, pets, and anyone else that could otherwise come in contact with it.

Check on the components every few hours, or overnight, until the lead is dissolved and baffles are clean. Carefully remove components and rinse with clean water. Dry, oil, and reassemble.

The resulting Lead Acetate mix **must be disposed of carefully and appropriately**, in accordance with all local regulations. Contact your local waste disposal establishment for instructions on HAZMAT (hazardous material). Usually it is as simple as dropping it off at your local waste disposal establishment. **Do not dump it down the drain or dump it outside. This mix is extremely dangerous and corrosive.**

ULTRASONIC CLEANING (BAFFLES)

Ultrasonic cleaning with a 50/50 mix of water and “Purple Power™” cleaner and works very well for cleaning baffles.

WARNING

Do not use on any components other than the baffles. Note this solution will contain lead. Dispose of appropriately and in accordance with local, state, and federal regulations. DO NOT dump it down the drain or outside.



Limited Lifetime Warranty

Silencerco, LLC (“**SilencerCo**”) warrants to you that if any product sold by SilencerCo’s and used for its intended use ever becomes defective, SilencerCo’s will repair or replace the product at no charge, other than shipping, subject to the conditions set forth below.

THE WARRANTY EXTENDS ONLY TO THE ORIGINAL REGISTERED PURCHASER.

This warranty does not cover damage to our products or host firearm resulting from careless or irresponsible handling adjustments or modifications to its intended design, negligence, or other unforeseeable abuse. SilencerCo assumes no liability for unsafe or illegal use of the silencer by its purchaser or any other user that comes in contact with the product after purchase. SilencerCo assumes no responsibility for physical injury or property damage resulting from careless or irresponsible handling or by any use contrary to the recommendations, warnings and cautions generally listed in this manual. SilencerCo does not cover damage to the silencer or host firearm resulting from improper “**hand-loaded, reloaded, previously used or otherwise defective ammunition.**” **THIS WARRANTY IS FURTHER REGULATED BY RELEVANT AND APPLICABLE STATE AND FEDERAL LAWS.**

If SilencerCo’s determines that you satisfy the conditions for warranty coverage under this limited warranty, SilencerCo’s will, at no charge, replace or repair the SilencerCo product with the

same or similar model subject to the terms herein. If no replacement is available, and SilencerCo determines that the product cannot be repaired, SilencerCo will replace your nonperforming or defective unit with a unit that, in SilencerCo’s sole determination, is substantially similar to your lawfully purchased and registered product. This warranty extends to any and all parts as originally sold by us, but **does not extend to any altered product or firearm that is altered or rebuilt after original purchase, damaged through abuse, misuse through lack of proper care and maintenance, or used other than for its legal intended purposes.**

SILENCERCO’S LIABILITY FOR BREACH OF ANY WARRANTY WITH RESPECT TO A SILENCERCO PRODUCT SHALL BE LIMITED TO REPLACING OR REPAIRING THE NONPERFORMING OR DEFECTIVE PRODUCT AS DESCRIBED IN THIS LIMITED WARRANTY. THIS LIMITED WARRANTY SHALL BE YOUR SOLE AND EXCLUSIVE REMEDY WITH RESPECT TO A NONPERFORMING OR DEFECTIVE PRODUCT, AND SILENCERCO WILL NOT BE LIABLE FOR ANY OTHER DAMAGES, INCLUDING DIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR DIMINUTION IN VALUE DUE TO REPAIR OR REPLACEMENT WITH A DIFFERENT PRODUCT.

For assistance with repairs, please contact our consumer service department at **801.417.5384**.



Register Your SilencerCo Product Online To Activate Your Lifetime Warranty



Protect Your Rights | Protect Your Hearing

The American Suppressor Association is fighting to protect and expand your silencer rights. Join the fight today!

For questions, contact our customer service team at **801.417.5384** or **info@silencerco.com**

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