

TM-STRAKE 9K®

TECHNICAL MANUAL FOR
OPERATION AND MAINTENANCE
OF SOUND SUPPRESSOR MODEL

STRAKE 9K



LAYERX SUPPRESSION
LIVONIA, MI 48150
LAYER3DX.COM

LAYERX SUPPRESSION

Limited Lifetime Warranty for Suppressors

LAYERX SUPPRESSION (LAYERX) warrants to the original purchaser ("Purchaser") of a new Suppressor from LAYERX that such Suppressor shall be free from defects in material and workmanship for the duration of time that the Purchaser originally owns that Suppressor. LAYERX, in its sole discretion, shall repair or replace the Suppressor if the Purchaser submits a valid warranty claim in accordance with these instructions. If LAYERX opts to replace the Suppressor, LAYERX will keep the Suppressor that it replaces for examination and evaluation. The Purchaser's remedies under this warranty are limited to repair or replacement of the Suppressor; LAYERX will not provide cash, credit, or refund. LAYERX does not warrant against any type of defect to the Suppressor that LAYERX did not cause, including but not limited to defects or failures arising out of:

1. Deferred or inadequate care and maintenance,
2. Accidents, abuse, or misuse,
3. Suppressor bore obstruction,
4. Hand loaded, reloaded, or improper ammunition,
5. Unauthorized adjustments, repairs, or modifications,
6. Normal wear and tear, or
7. Criminal acts.

Additionally, LAYERX EXCLUDES AND WILL NOT PAY INCIDENTAL OR CONSEQUENTIAL DAMAGES UNDER THIS WARRANTY. THIS WARRANTY ALSO EXCLUDES ANY OTHER WARRANTIES, TO INCLUDE IMPLIED WARRANTIES. Furthermore, no individual or entity other than LAYERX possesses the authority to alter the obligations, limitations, disclaimers, or exclusions under this warranty. LAYERX's obligations under this warranty shall not apply to the extent that any law, regulation, or other governmental requirements prohibits the repair, replacement and, or, return of a Suppressor to the person who shipped the Suppressor to LAYERX.

The Purchaser, in order to achieve eligibility under this warranty, must be able to produce, on request, Purchaser's original sales receipt for the Suppressor that clearly indicates that Purchaser is the original purchaser at retail. The Purchaser, upon discovering a defect in material or workmanship in the suppressor, shall contact LAYERX support@layer3dx.com.

Upon receiving the Purchaser's correspondence, LAYERX shall provide instructions to the Purchaser governing the manner in which to return the Suppressor for repair or replacement.

Repair Policy

Should the suppressor require repair or modification, the owner should contact LAYERX Customer Service to secure a Return Merchandise Authorization (RMA). Once the customer has the RMA, they may then ship the suppressor insured to LAYERX for evaluation and repair, along with a photocopy of the approved form proving ownership and a brief letter detailing the customer's concerns and contact information.

Manufacturer's Disclaimer

LAYERX SUPPRESSION shall not be responsible in any manner whatsoever for physical injury or property damage stemming from criminal or negligent misuse, improper or careless handling, unauthorized modifications, defective, improper hand-loaded or reloaded ammunition, neglect, or other influences beyond our direct and immediate control. If you do not understand the instructions and recommendations in this manual, contact LAYERX SUPPRESSION at support@layer3dx.com. for clarification.

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This manual contains operating, care, and maintenance instructions. To assure safe operation, any user of this suppressor must read and understand this manual before using the suppressor. Failure to follow the instructions and heed the warnings in this manual can cause property damage, personal injury, and/or death. This manual should always accompany this suppressor, and be transferred with it upon change of ownership.

WARNING Keep this suppressor out of the reach of children, unauthorized and/or prohibited individuals, and others unfamiliar with the safe handling of firearms and suppressors.

	Alert Symbols and Definitions:
WARNING!	Indicates a hazardous situation which, if not avoided, could result in property damage, personal injury, or death.
CAUTION!	Indicates a hazardous situation which, if not avoided, could result in minor to moderate personal injury.
NOTE:	Addresses practices not relating to personal injury.

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OPERATIONAL MANUAL FOR SUPPRESSOR MODEL STRAKE 9K

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THE TEN COMMANDMENTS OF FIREARM SAFETY

1. Always keep the muzzle of your firearm pointed in a safe direction.
2. Prevent accidental discharges by keeping your finger off the trigger until ready to fire.
3. Consider all firearms loaded, and keep them unloaded until ready to fire.
4. Positively identify your target and what is beyond it.
5. Ensure your barrel and action are free of obstructions, and that your ammunition matches the markings on your firearm.
6. Keep firearms unloaded when not in use.
7. The muzzle of your firearm should only be pointed at something you intend to shoot.
8. Do not run, jump, or climb obstacles with a loaded firearm.
9. Store firearms and ammunition separately and in safe containers.
10. Alcohol and firearms do not mix.

WARNING! FOLLOW ALL OF THE INSTRUCTIONS IN THIS MANUAL! Failure to do so can create a potentially dangerous situation for the user, suppressed host firearm, and third party, possibly leading to property damage, personal injury and/or death.

WARNING! Never install or remove a suppressor onto or from a host firearm that you have not verified to have the magazine removed, the chamber is empty, and the firearm is rendered safe. Installing or removing a suppressor onto or from a loaded host firearm may lead to property damage, personal injury and/or death.

WARNING! Always wear eye protection when discharging a firearm equipped with a suppressor. Suppressed firearms often increase back pressure on reciprocating components, resulting in additional levels of particulate matter discharged from the ejection port of auto-loading hosts. Discharging a host firearm without wearing eye protection may lead to property damage, personal injury and/or death.

WARNING! The STRAKE 9K is designed for use on modern 9mm Luger sub machine guns, pistol caliber carbines, and semi-automatic pistols in serviceable condition. Users must ensure the intended host firearm is in serviceable condition. Using a STRAKE 9K on firearms that are not in serviceable condition can lead to property damage, personal injury and/or death.

WARNING! Mounting architecture (threads, 3-Lug muzzle, etc.) must be properly machined to allow proper attachment of a STRAKE 9K suppressor. The use of a host firearm with improperly machined mounting architecture may lead to property damage, personal injury and/or death.

WARNING! The bore through your STRAKE 9K suppressor must concentrically align with the bore of the host firearm barrel to which it is mounted. A mismatch of the suppressor and host firearm barrel bore may lead to property damage, personal injury and/or death.

WARNING! Discharging suppressed firearms can make airborne and/or deposit lead and other substances around, on and in the suppressor and host firearm. Shooting, handling and/or cleaning a suppressor and/or suppressed firearm may result in exposure to lead and other substances known to cause birth defects, reproductive harm, cancer and other serious physical injury. Have adequate ventilation at all times and wash hands thoroughly after exposure.

CAUTION! Suppressors absorb thermal energy when used, and as a result become extremely hot. After using a suppressed firearm, allow the suppressor to reach ambient temperature before attempting to remove the suppressor from the host firearm. If removal is necessary prior to the suppressor cooling to ambient and/or the suppressor needs to be re-tightened onto the barrel of the host firearm, protecting your skin with heat-resistant gloves is mandatory. Handling a hot suppressor without heat-resistant gloves may lead to burns and/or personal injury.

GENERAL DESCRIPTION

The STRAKE 9K is a configurable, high-performance sound and flash suppressor designed for use on 9mm submachine guns, pistol caliber carbines, and handguns. The user experience with the STRAKE 9K is perfectly balanced through the careful blending of reduced gas restriction architecture and advanced baffle design to deliver a pleasant acoustic signature with minimal backpressure. The STRAKE 9K features an industry standard 1-3/8-24 HUB (Hybrid Universal Base) socket. The HUB socket enables users to easily configure the STRAKE 9K with a spectrum of mounting options including direct-thread, 3-lug, booster/Nielsen device, and QD.

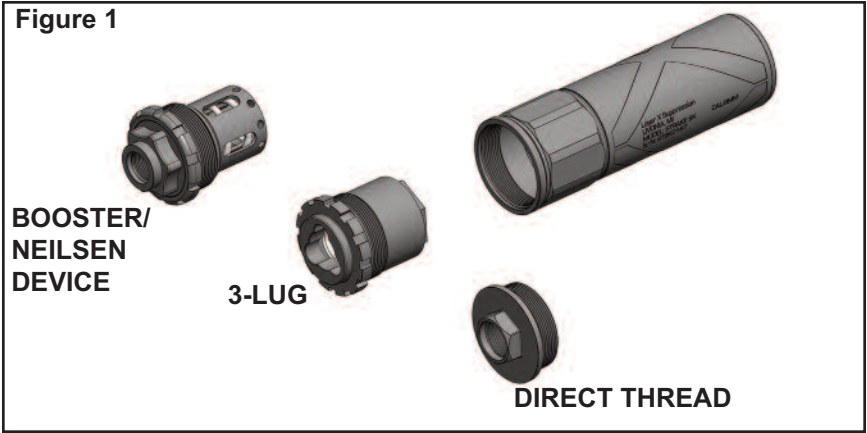
The STRAKE 9K is produced from 6AL-4V Titanium using additive manufacturing methods. Additive manufacturing (AKA 3-D printing) enabled LAYERX designers to craft a lightweight design that is extremely strong and durable. The unitized body of the STRAKE 9K offers impressive thermal efficiency and hoop strength, which enables the suppressor to be rated for several calibers other than 9mm. The STRAKE 9K is available in temperature resistant matte black or flat dark earth Alphatek.

Although the STRAKE 9K was designed primarily for use with 9mm Luger ammunition, it can also be used with other ammunition calibers. See the chart below for approved caliber/barrel length combinations.

CALIBER	MINIMUM BARREL LENGTH
8.6 BLK (SUBSONIC ONLY)	12.5"
300 BLK SUBSONIC	7"
300 BLK SUPERSONIC	9"
5.56 X 45mm	16"
7.62 X 51mm	20"
6mm ARC	16"
.357 MAGNUM	16"
.338 ARC (SUBSONIC ONLY)	12.5"

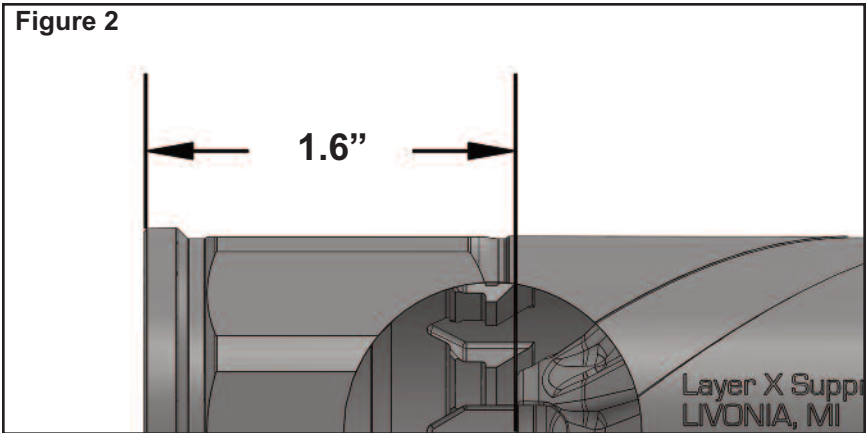
WARNING! Do not use this suppressor with ammunition (a) that includes a projectile with a greater diameter than the diameter of the projectile for 9mm Luger ammunition, or (b) a power level greater than that recommended in the following chart. The use of ammunition with a projectile with a greater diameter than the diameter of the projectile for 9mm Luger ammunition, or a power level greater than that recommended in the following chart may lead to property damage, personal injury and/or death.

Please note, the cumulative result of exposure to suppressed gunfire on hearing is determined by numerous and diverse data points, including but not limited to sound pressure level, duration of exposure, host firearm barrel length and operating system, ammunition, and the environment in which the exposure occurs. It is highly advised that users employ hearing protection even when exposed to suppressed gunfire.



INSTALLING A HUB COMPATIBLE MOUNTING ADAPTER IN THE STRAKE 9K

The 1-3/8-24 HUB socket in the rear of the STRAKE 9K enables users to easily configure the suppressor with a variety of mounting options. Please be aware that the distance from the rear face of the STRAKE 9K to the blast baffle may be a limiting factor regarding which mounting options will fit. **Figure 2** details the distance from the rear face of the STRAKE 9K to the blast baffle. It is recommended that any mounting option not intrude into the blast chamber more than 1.6". This depth will ensure expanding propellant gases have ample room and time to be diverted into the low restriction architecture surrounding the main baffle core. It is the user's responsibility to ensure any mounting options are compatible with the



STRAKE 9K.

WARNING! Only perform mounting hardware changes on a STRAKE 9K that is not installed on a host firearm. Perform mounting hardware changes on STRAKE 9K that is installed on a host firearm could lead to property damage, personal injury and/or death.

1. If the STRAKE 9K is currently mounted to a host firearm, engage the safety, remove the magazine, lock the bolt or slide to the rear, and verify both visually and tactilely that the chamber is empty and the host firearm is unloaded.
2. Remove the STRAKE 9K from the host firearm.
3. Remove the currently installed mounting system.
4. Inspect the HUB socket to ensure the threads are clean and free of damage.

WARNING! Never try to install a mount adapter in a STRAKE 9K that has dirty or damaged threads. Doing so can lead to property damage, personal injury and/or death.

5. Apply a light coat of anti-seize compound or high temperature grease to the HUB threads on the exterior of the adapter.
6. Thread the adapter into the STRAKE 9K until it is fully and securely seated.
7. Use a tool to securely tighten the HUB adapter into the STRAKE 9K.
8. Wipe away any excess anti-seize compound or grease.

INSTALLING A STRAKE 9K SUPPRESSOR CONFIGURED FOR DIRECT-THREAD USE ONTO A HOST FIREARM

WARNING! Never attempt to install a STRAKE 9K suppressor onto a host firearm that has not been determined to be unloaded. Attempting to install a STRAKE 9K suppressor onto a host firearm that is loaded may lead to a dangerous situation resulting in property damage, personal injury and/or death.

WARNING! Never attempt to install a STRAKE 9K suppressor onto muzzle threads that are dirty or damaged, as this may lead to property damage, personal injury and/or death.

WARNING! Never use a STRAKE 9K suppressor with an obstructed bore, as this may lead to property damage, personal injury and/or death.

1. Always keep the firearm pointed in a safe direction.
2. Render the host firearm safe by engaging the safety, remove the magazine, lock the bolt or slide to the rear, and verify both visually and tactilely that the chamber is empty and the host firearm is unloaded.
3. Remove any present thread protector, flash hider, or muzzle device from the host firearm muzzle threads.
4. Clean the host firearm muzzle threads, the muzzle face, and adjacent shoulder and verify they are undamaged.
5. Verify the female thread in the Direct-Thread adapter matches the male threads on the host firearm muzzle.
6. Inspect the threads in the Direct-Thread adapter to verify they are clean and undamaged.
7. Look through the suppressor from the rear to ensure the bullet path through the suppressor is unobstructed.
8. Examine the suppressor for any signs of damage.
9. Carefully thread the STRAKE 9K onto the host firearm muzzle threads. Thread the suppressor completely onto the host firearm so that the rear of the installed direct-thread mount sits flush and square against the host firearm barrel shoulder.

INSTALLING A STRAKE 9K SUPPRESSOR CONFIGURED FOR 3-LUG USE ONTO A HOST FIREARM

WARNING! Never attempt to install a STRAKE 9K suppressor onto a host firearm that has not been determined to be unloaded. Attempting to install a STRAKE 9K suppressor onto a host firearm that is loaded

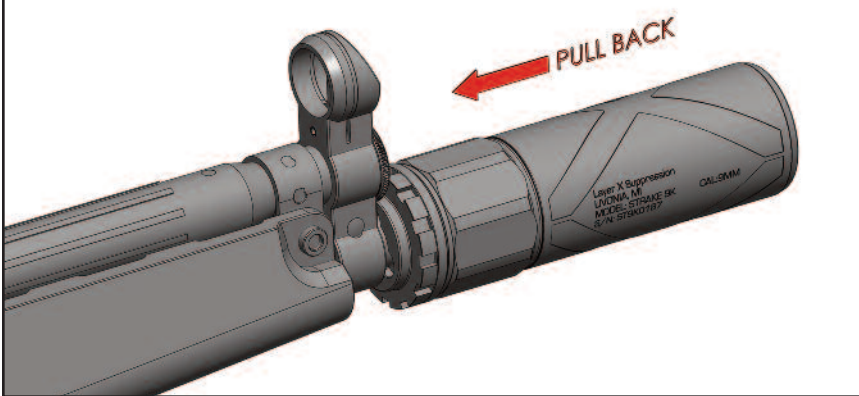
may lead to a dangerous situation resulting in property damage, personal injury and/or death.

WARNING! Never attempt to install a STRAKE 9K suppressor onto A 3-Lug muzzle that is dirty or damaged, as this may lead to property damage, personal injury and/or death.

WARNING! Never use a STRAKE 9K suppressor with an obstructed bore, as this may lead to property damage, personal injury and/or death.

1. Always keep the firearm pointed in a safe direction.
2. Render the host firearm safe by engaging the safety, remove the magazine, lock the bolt or slide to the rear, and verify both visually and tactilely that the chamber is empty and the host firearm is unloaded.
3. Position the 3-Lug adapter equipped STRAKE 9K on the 3-lug barrel so that the 3 cuts in the rear of the adapter are aligned with the 3-lugs

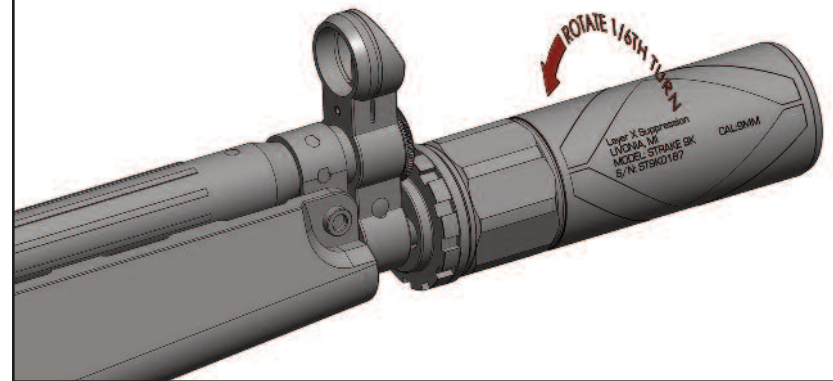
Figure 3



on the host firearm barrel (See Figure 3).

4. Pull the 3-Lug adapter equipped STRAKE 9K back onto the barrel lugs against the resistance of the spring inside the 3-lug adapter. When the suppressor can be pulled back no further, rotate the suppressor 1/6 turn counterclockwise while holding the host firearm stationary (See Figure 4).

Figure 4



5. When the suppressor will rotate no further, release rearward pressure on the suppressor. The STRAKE 9K will snap forward and lock onto the barrel.

INSTALLING A STRAKE 9K SUPPRESSOR CONFIGURED FOR PISTOL USE ONTO A HOST FIREARM

WARNING! Never attempt to install a STRAKE 9K suppressor onto a host firearm that has not been determined to be unloaded. Attempting to install a STRAKE 9K suppressor onto a host firearm that is loaded may lead to a dangerous situation resulting in property damage, personal injury and/or death.

WARNING! Never attempt to install a STRAKE 9K suppressor onto muzzle threads that are dirty or damaged, as this may lead to property damage, personal injury and/or death.

WARNING! Never use a STRAKE 9K suppressor with an obstructed bore, as this may lead to property damage, personal injury and/or death.

1. Always keep the firearm pointed in a safe direction.
2. Render the host firearm safe by engaging the safety, remove the magazine, lock the slide to the rear, and verify both visually and tactilely that the chamber is empty and the host firearm is unloaded.

3. Remove any present thread protector, flash hider, or muzzle device from the host firearm muzzle threads.
4. Clean the host firearm muzzle threads, the muzzle face, and adjacent shoulder and verify they are undamaged.
5. Verify the female thread in the Nielsen Device piston matches the male threads on the host firearm muzzle.
6. Inspect the threads in the Nielsen Device piston to verify they are clean and undamaged.
7. Look through the suppressor from the rear to ensure the bullet path through the suppressor is unobstructed.
8. Examine the suppressor for any signs of damage.
9. Carefully thread the STRAKE 9K onto the host firearm muzzle threads. Thread the suppressor completely onto the host firearm so that the piston index surface sits flush and square against the host firearm barrel index surface.

WARNING! Users must ensure the STRAKE 9K remains securely threaded to the host firearm muzzle during use. Failure to ensure the suppressor stays securely threaded to the host firearm muzzle may lead to property damage, personal injury and/or death.

CLEANING THE STRAKE 9K

WARNING! Only perform cleaning and maintenance procedures on suppressors that are cool to the touch and not mounted to a host firearm. Attempting to clean or perform maintenance on a mounted suppressor or hot suppressors could lead to property damage, personal injury and/or death.

WARNING! Always wear protective gear, such as eye protection and solvent-resistant gloves when working with solvents. Use solvents in a well-ventilated area away from open flames. Unsafe use of solvents may lead to property damage, personal injury and/or death.

1. If there is a HUB mount installed, remove the mount by reversing the instructions in this manual.

2. Clean your STRAKE 9K by immersing it completely in copper remover or a suitable solvent such as paint thinner or acetone. Allow the suppressor to soak in solvent for 24 hours for best results.
3. Drain solvent from the suppressor by first standing it muzzle-end-up, then muzzle-end-down.
4. Use a stiff brush to scrub and clean the HUB socket and blast chamber in the rear of the suppressor.
5. Flush the HUB socket in the rear of the suppressor with clean solvent to rinse away any debris loosened by the brush. Allow all traces of solvent to evaporate.
6. Apply a small amount of high-temp grease or anti-seize to the threads on the HUB mount and reinstall the HUB mount in the rear of the suppressor.
7. Wipe off the exterior of the suppressor with a clean cloth.