

CAT/TSWIF/MANUAL



WARNING - MATERIAL SPECIFIC FACTS

C.A.T TSWIF Inconel 718 5.56mm suppressors are limited to barrel lengths of 10" or longer. Note that barrel length restrictions are guidelines and users should ensure proper alignment of the suppressor as well as stability of the projectile exiting their barrel before use. This model is a "duty" focused suppressor, able to support Full Auto or High Rates of Fire (HRF). IN718, a nickel-chromium alloy, has excellent high-temperature properties, making it suitable for use in combat environments. IN718's typical operating temperature is approximately **1292°F (700°C)**, and can tolerate temperatures up to **1800°F (982°C)**, though prolonged exposure is not recommended. Once the operating temperature threshold is exceeded, CAT recommends a cooling down below operating temperature. The suppressor is susceptible to particle erosion and softening past operating temperature. If the user notices discoloration on the exterior discontinue use and allow it to cool down. **Do not dip the suppressor in water in an attempt to cool it down.**

C.A.T recommends TSWIF IN718 users invest in an infrared thermometer and create their own platform specific firing schedule, based on ammunition and barrel length. It is recommended to create a firing schedule by shooting five round groups, with one second intervals between rounds, then testing the temperature of the suppressor up to the operating temperature. At the operating temperature, the user should record the amount of time until the suppressor returns to 150°F (65°C). This would become the baseline firing schedule based on the user's platform and ammunition type.

C.A.T TSWIF Inconel 718 includes the Lil Bomb Blast Diverter with 1/2x28 threads. This blast diverter is intended to be used as your firearm's muzzle device. It is sized (and predrilled) to permanently affix the device via pin and weld onto a 14.5" barrel to allow the user to maintain a 16.1" (non-NFA) barrel length. Also included is a thread protector for the Lil Bomb. If you feel the need to shoot unsuppressed with the Lil Bomb installed the user **MUST INSTALL THE THREAD PROTECTOR** to prevent serious or catastrophic damage to the female threads inside the Lil Bomb.

CAT/TSWIF/A1



MODEL: CAT/TSWIF/A1
CALIBER: 556NATO
BASE WEIGHT: 6.7 OZ
OVERALL WEIGHT: 15.6 OZ
OVERALL LENGTH: 5.45"
DIAMETER: 1.50"
SILENCER DIAMETER: 1.75"
MIN BARREL LENGTH (TITANIUM): 10"
MIN BARREL LENGTH (INCONEL): 8"
OPTIMIZED VELOCITY: 1100 – 3200FT/S
OPTIMIZED PLATFORM: 14" M4
TECHNOLOGY: SURGE BYPASS
RECOMMENDATION: SEMI-AUTO
FINISH: DLC
MOUNTING: 1/2×28 DIRECT THREAD (INCLUDED)

INSTALLATION

STEP 1

Remove the magazine from the firearm, then visually and manually check and clear the action and chamber of the firearm. Ensure the host firearm is unloaded at all times.

STEP 2

Always ensure the barrel thread and shoulders are clean and free of debris.

To install the Lil Bomb muzzle device, clean and degrease barrel threads and make sure barrel shoulder is also clean.

STEP 3

Ensure the Lil Bomb muzzle device internal thread and shoulders are clean, degreased, and free of debris. Coat the barrel threads with a high temperature thread locker, such as Rocksett, according to that manufacturers instructions.

STEP 4

Screw the Lil Bomb muzzle device onto the barrel threads and torque it down with an 3/4" (.75") wrench to 25-30ft/lb. Allow the thread locker to fully cure before using the suppressor on a firearm.

STEP 5

Inspect the Lil Bomb and ensure the critical surfaces are clean and free of debris (especially the taper shoulder).

INSTALLATION

STEP 6

Prior to installing the CAT TSWIF on the muzzle device, inspect the mounting surfaces of the CAT TSWIF and ensure the critical mounting surfaces are clean and free of debris (pay special attention to making sure the taper shoulder region is clean and free of debris).

STEP 7

To install the CAT TSWIF, slide it into the Lil Bomb and thread clockwise (right hand to tighten) and tighten the CAT TSWIF strongly by hand to fully engage the taper shoulder interfaces. When CAT TSWIF is properly installed this taper shoulder interface will prevent loosening during use but it is highly recommended that users continue to check between cooling periods, as dirt and heat expansion can sometimes lead to interface separation.

STEP 8

Visually inspect that the CAT TSWIF is properly installed on the muzzle device and that it's mounted straight to the centerline of the bore. Ensure the suppressor isn't canted in any way and that the CAT TSWIF is fully shouldered against the taper on the muzzle device

STEP 9

Use a properly made, purpose built suppressor alignment rod to ensure the suppressor is properly mounted and concentric to the bore line.

***To remove the CAT TSWIF from the muzzle device, wait for the suppressor to cool after use, ensure the firearm is completely unloaded and safe, then unscrew the suppressor COUNTER-CLOCKWISE (left hand to loosen).**

