CAT/KK/MANUAL

WARNING - MATERIAL SPECIFIC FACTS

C.A.T KK Inconel 718 5.56mm suppressors are limited to barrel lengths of 10.3" 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 KK 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 KK Inconel 718 has a dedicated “waffle” style erosion interface at the end of the blast chamber. This is a sacrificial erosion wall, and users should not be concerned if they are seeing wear, this is designed to support the erosion caused by unburnt particulates (especially in short barrel platforms) and is designed to protect other internal areas inside of the suppressor.

CAT/KK

1x16LH QD

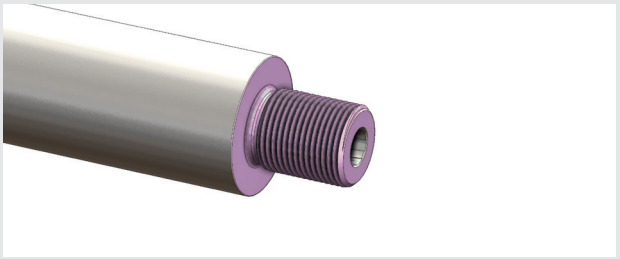
MODEL: CAT/KK
CALIBER: 5.56NATO
WEIGHT: 14.5 OZ*
OVERALL LENGTH: 4.5“
DIAMETER: 1.60“
MIN BARREL LENGTH: 10“
OPTIMIZED VELOCITY: 2800-3200FT/S
OPTIMIZED PLATFORM: 14.5“ M4 CARBINE
TECHNOLOGY: SURGE BYPASS
RECOMMENDATION: SEMI-AUTO
MATERIAL: INCONEL 718
FINISH: DLC
MOUNTING (QD): AI NANO 1/2×28 (INCLUDED)

PLEASE NOTE: C.A.T KK IS ONLY COMPATIBLE WITH THE AI NANO MUZZLE DEVICE AND THE BLAST CHAMBER IS TOO SHORT TO USE ON “FULL SIZED” CAT SPOOKY (OR SIMILAR) MUZZLE DEVICES.

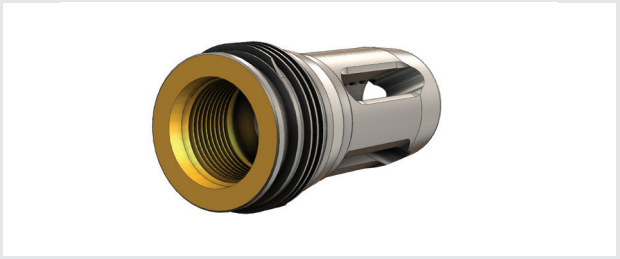
INSTALLATION

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 AI Nano 1x16LH QD muzzle device, clean and degrease barrel threads and make sure barrel shoulder is also clean (pink surfaces).

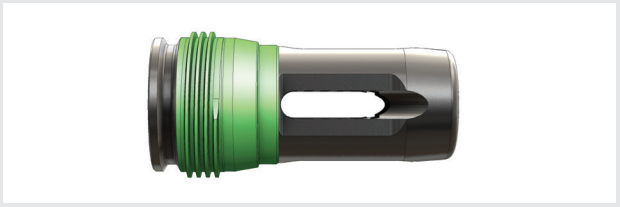


STEP 3
Ensure the AI Nano 1x16LH QD muzzle device internal thread and shoulders are clean, degreased, and free of debris (gold surfaces). Coat the barrel threads with a high temperature thread locker, such as Rocksett, according to that manufacturers instructions.

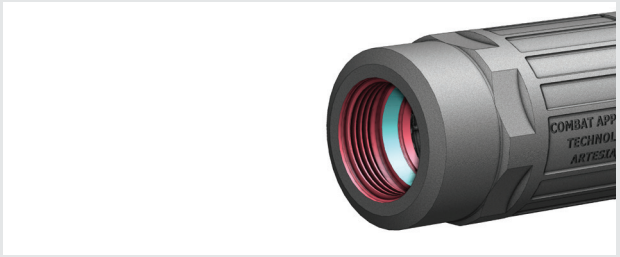


STEP 4
Screw the AI Nano 1x16LH QD muzzle device onto the barrel threads and torque it down with an 13/16" (.8125") wrench to 25-30ft/lb. Allow the thread locker to fully cure before using the suppressor on a firearm.

STEP 5
Inspect the muzzle device and ensure the critical surfaces are clean and free of debris (green surfaces, especially the taper shoulder).



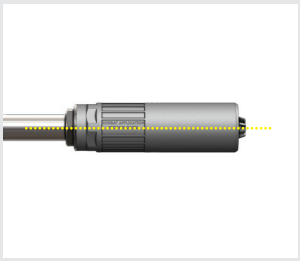
STEP 6
Prior to installing the CAT KK on the muzzle device, inspect the internal mounting surfaces of the CAT KK and ensure the critical mounting surfaces are clean and free of debris (red surfaces - pay special attention to making sure the blue taper shoulder region is clean and free of debris).

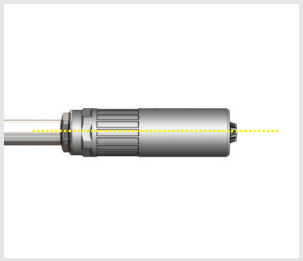


INSTALLATION

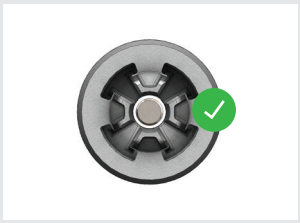
STEP 7
To install the CAT KK, slide it over the muzzle device and thread COUNTER-clockwise (left hand to tighten) and tighten the CAT KK strongly by hand to fully engage the taper shoulder interfaces. When CAT KK is properly installed this taper shoulder interface will prevent loosening during use but it is highly recommended that users continue to check between cooling periods, as dirt and heat expansion can sometimes lead to interface

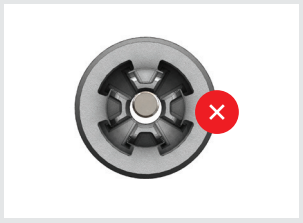
STEP 8
Visually inspect that the CAT KK is properly installed on the muzzle device and that it's mounted straight to the centerline of the bore. Ensure the suppressor isn't canted in any way and that the CAT KK is fully shouldered against the taper on the muzzle device.





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 KK from the muzzle device, wait for the suppressor to cool after use, ensure the firearm is completely unloaded and safe, then unscrew the suppressor CLOCKWISE (right hand to loosen). Left hand threads are used on the AI Nano 1x16LH QD muzzle devices so that when uninstalling the suppressor, the QD muzzle device will always stay on the host firearm rather than coming off and becoming stuck inside the suppressor.**

***To remove the CAT KK with CAT TSFX QD mount assembly from the muzzle device, wait for the suppressor to cool after use, ensure the firearm is completely unloaded and safe, then unscrew the suppressor CLOCKWISE (right hand to loosen). Left hand threads are used on the CAT 1x16LH QD muzzle devices so that when uninstalling the suppressor, the QD muzzle device will always stay on the host firearm rather than coming off and becoming stuck inside the suppressor. If you experience the TSFX mount coming loose from the TSWIF suppressor body, you may need to use additional torque between the two parts within spec, or you may use an optional thread locker. If you choose to use a thread locker between the direct thread mount and the CAT TSWIF, degrease the threads and allow the thread locker to fully cure before using the firearm.**