

CAT/VB6/MANUAL

VB6

WARNING - MATERIAL SPECIFIC FACTS

TITANIUM CAT (Ti-C)

CAT's new proprietary Ti-C or "Titanium CAT" can maintain its mechanical properties up to approximately **968°F (520°C)**, and as high as **1290°F (700°C)**, although with heavily reduced mechanical performance at its maximum. Once the operating temperature threshold exceeds **1000°F (535°C)**, C.A.T recommends an immediate cooling down to stop in metal oxidization. Ti-C still has inherent material properties which give the material a lower heat conductivity rating, and the suppressor is susceptible to particle erosion and softening past operating temperature, especially in the base where it is subject to the highest heat loads. If the user notices discoloration on the exterior discontinue use and allow it to cool down immediately, as VB6 was not designed for continuous HRF. **Do not dip the suppressor in water in an attempt to cool it down, this has a detrimental effect of the material properties.**

C.A.T recommends VB6 Ti-C 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 ten (10) round groups, with one second intervals between rounds, then testing the temperature of the VB6 base suppressor up to the operating temperature. The user should record the cool down 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 VB6 will only interface with the shorter AI Nano muzzle devices. CAT Spooky muzzle devices are too long for the blast chamber and will prevent the suppressor from engaging with the threads/tapered shoulder.

The VB6 is also a reflex style design which means a portion of the suppressor goes back over the barrel. You will need a 3" minimum clearance from the crown of your barrel's muzzle and any obstruction (handguard, gas block, etc.) in order for the VB6 to fit on your system. Said differently, you need 3 inches from the front of your barrel rearward that is just bare/exposed barrel. No handguard, accessories, bayonet, or gas block in the way.

CAT/VB6



1x16LH QD

MODEL: CAT/VB6

CALIBER: 6MM

MAX CALIBER: 6ARC

WEIGHT (Ti-C): 13.5OZ

OVERALL LENGTH: 7.88"

ADDED LENGTH (NANO): 4.26"

MAXED BARREL DIAMETER: .98"

BARREL REFLEX (FROM SHOULDER): 2.81"

DIAMETER: 1.75"

MIN BARREL LENGTH: 14.5"

OPTIMIZED VELOCITY: 2800 – 3200 FPS

OPTIMIZED PLATFORM: SPR/DMR BUILDS WITH 3" MINIMUM CLEARANCE FROM THE CROWN OF THE MUZZLE TO THE FORWARD MOST POINT OF HANDGUARD (OR GAS BLOCK)

TECHNOLOGY: RFX

RECOMMENDATION: OPTIMIZED FOR 5.56MM AND 6ARC

FINISH: LOW MICRON DLC

MOUNTING: QD (NANO ONLY)

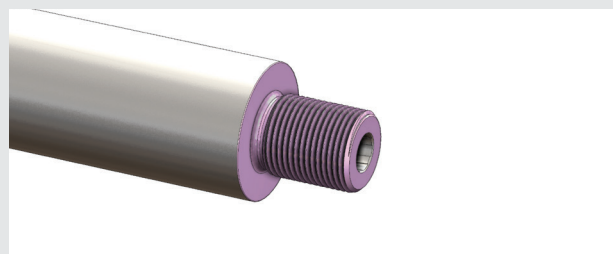
INSTALLATION

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

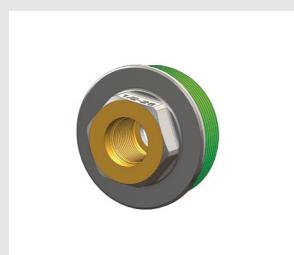


IF USING THE INCLUDED 5/8X24 DIRECT THREAD MOUNT:

STEPS 3, 4 & 5

Prior to installing the 5/8x24 direct thread mount on the suppressor, inspect the mounting interface surfaces of the direct thread mount and ensure the threads and shoulders are clean and free of debris (gold and green surfaces).

Ensure the CAT VB6 suppressor internal 1-3/8x24 (1.375x24) thread is clean and free of debris (blue).



INSTALLATION

STEPS 6, 7 & 8

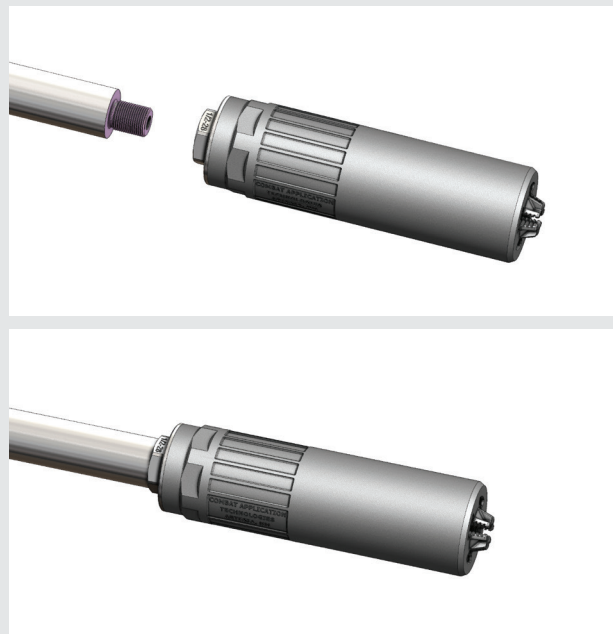
Screw the direct thread mount into the back of the CAT VB6 suppressor and torque it down, with a 1-1/2" (1.500") wrench on the CAT TSWIF wrench flats and a 7/8" (.875") wrench on the direct thread mount wrench flats, to 25-30ft/lb.

If you choose to use a thread locker between the direct thread mount and the CAT KK, degrease the threads and allow the thread locker to fully cure before using the firearm.



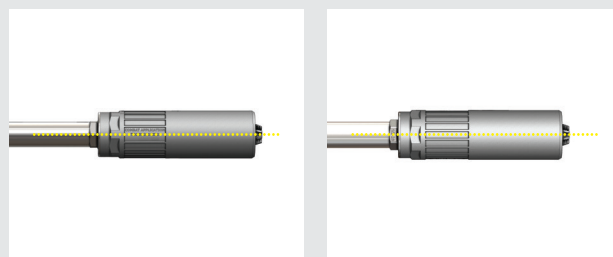
STEPS 9 & 10

To install the CAT VB6 with direct thread mount assembly onto the firearm, again ensure the firearm is completely unloaded and safe, then slide the assembly over the barrel and thread it on CLOCKWISE (right hand to tighten) torquing it down first by hand like you don't want it to come off, tightening the CAT VB6 direct thread mount assembly fully against the barrel shoulder. When installed by hand, you must check the suppressor repeatedly during use to ensure it doesn't come loose. To ensure the assembly won't come loose, torque the direct thread mount down to the barrel using a 7/8" (.875") wrench to 25-30ft/lb. If you choose to use a thread locker between the direct thread mount and the CAT VB6, degrease the threads and allow the thread locker to fully cure before using the firearm.



STEPS 11 & 12

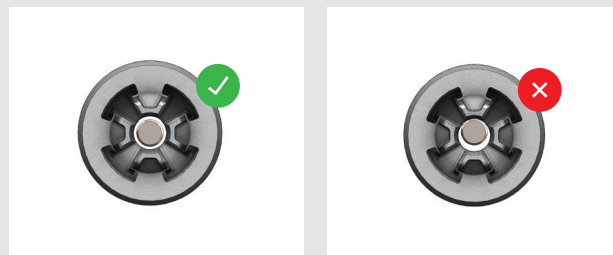
Visually inspect that the CAT VB6 with direct thread mount assembly is properly installed on the firearm barrel and that it's mounted straight to the centerline of the bore. Ensure the suppressor isn't canted in any way and that the CAT VB6 is fully shouldered against the barrel shoulder.



INSTALLATION

STEPS 13 & 14

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 VB6 with direct thread mount assembly from the host firearm barrel, 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). If you experience the direct mount coming loose from the WB 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 VB6, degrease the threads and allow the thread locker to fully cure before using the firearm.**

***To remove the CAT VB6 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 VB 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 VB6, degrease the threads and allow the thread locker to fully cure before using the firearm.**

