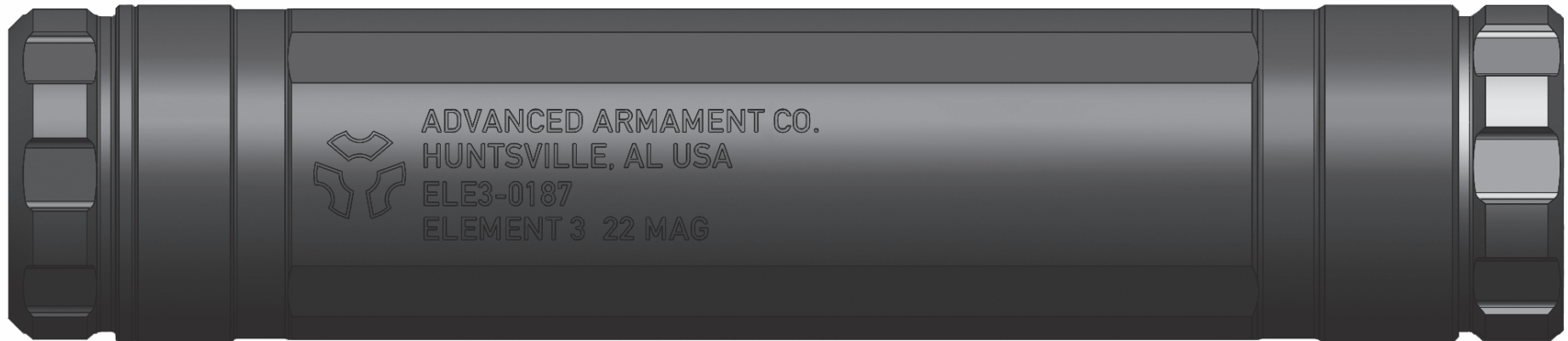


TM-ELEMENT-3[®]

TECHNICAL MANUAL FOR
OPERATION AND MAINTENANCE
OF SILENCER MODEL
ELEMENT-3



AAC
ADVANCED ARMAMENT CO.

5021 Bradford Drive, Suite A
Huntsville, AL 35805

ADVANCED ARMAMENT CO.

Limited Lifetime Warranty for Silencers

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

1. Failure to provide proper care and maintenance,
2. Accidents, abuse, or misuse,
3. Silencer obstruction,
4. Hand loaded, reloaded, or improper ammunition,
5. Unauthorized adjustments, repairs, or modifications, or
6. Normal wear and tear.

Additionally, AAC 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 AAC possesses the authority to alter the obligations, limitations, disclaimers, or exclusions under this warranty. AAC'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 Silencer to the person who shipped the Silencer to AAC.

The Purchaser, in order to achieve eligibility under this warranty, must be able to produce, on request, Purchaser's original sales receipt for the Silencer that clearly indicates that Purchaser is the original purchaser at retail. The Purchaser, upon discovering a defect in material or workmanship in the silencer, shall contact AAC at 800-581-1610 or techinfo@advanced-armament.com

Upon receiving the Purchaser's correspondence or phone call, AAC shall provide instructions to the Purchaser governing the manner in which to return the Silencer for repair or replacement.

Repair Policy


Should the silencer require repair or modification, the owner should contact AAC Customer Service to secure a Return Merchandise Authorization (RMA). Once the customer has the RMA, they may then ship the silencer insured to AAC 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

ADVANCED ARMAMENT CO. 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 ADVANCED ARMAMENT CO. at 800-581-1610 for clarification.

This manual contains operating, care, and maintenance instructions. To assure safe operation, any user of this silencer must read and understand this manual before using the silencer. 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 silencer, and be transferred with it upon change of ownership.

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

	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 SILENCER MODEL ELEMENT-3

Distributed by

ADVANCED ARMAMENT CO.

Phone: (800) 581-1610

www.advanced-armament.com

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THE TEN COMMANDMENTS OF FIREARM SAFETY

1. Always keep the muzzle pointed in a safe direction.
2. Firearms should be unloaded when not actually in use.
3. Do not rely on your firearm's safety.
4. Be sure of your target and what is beyond it.
5. Only use ammunition that exactly matches the markings on your firearm.
6. If your firearm fails to fire when the trigger is pulled, handle with care.
7. Always wear eye and hearing protection when shooting.
8. Be sure the barrel is clear of obstructions before shooting.
9. Do not alter or modify your firearm and have it serviced regularly.
10. Learn the mechanics and handling characteristics of your firearm. Read your firearm's instruction manual.

WARNING! Failure to follow the instructions and recommendations set forth in this manual can create a potentially dangerous situation for the user and surrounding personnel, and possibly leading to property damage, personal injury and/or death.

WARNING! Never install or remove a silencer onto or from a host firearm that you have not verified to be completely unloaded and rendered safe. Installing or removing a silencer onto or from a loaded firearm may lead to property damage, personal injury and/or death.

WARNING! Always wear eye protection when discharging a firearm equipped with a silencer. Discharging a firearm without wearing eye protection may lead to property damage, personal injury and/or death.

WARNING! The ELEMENT-3 is designed for use on modern pistols and long guns in serviceable condition. It is the user's responsibility to insure the intended host firearm is in serviceable condition. Using a ELEMENT-3 on firearms that are not in serviceable condition can lead to property damage, personal injury and/or death.

WARNING! The barrel threads must be properly machined to allow proper attachment of a ELEMENT-3 silencer. The use of an improperly threaded barrel with a silencer may lead to property damage, personal injury and/or death. Barrel threading guides are available on the AAC website at www.advanced-armament.com. For further clari-

fication on muzzle threads, contact **ADVANCED ARMAMENT CO.** at 800-581-1610.

WARNING! The bore through your ELEMENT-3 silencer must align concentrically with the bore of the barrel to which it is mounted. A mismatch of the silencer and barrel bore may lead to property damage, personal injury and/or death.

WARNING! Discharging silenced firearms can make airborne and/or deposit lead and other substances around, on and in the silencer. Using, handling and/or cleaning a silencer 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! Silencers can become extremely hot while the host firearm is being discharged. After shooting, allow the silencer to reach ambient temperature before attempting to remove the silencer from the firearm. If removal is necessary prior to the silencer cooling to ambient and/or the tightness of the silencer on the host firearm barrel must be verified, the use of heat-resistant gloves is mandatory. Handling a hot silencer without heat-resistant gloves may lead to skin burns and/or personal injury.

GENERAL DESCRIPTION

Congratulations! You are now the proud owner of a durable, light-weight, high-performance muzzle silencer that meets the essential needs of suppressing the muzzle report of handguns and rifles chambered for ammunition from 22LR up to 5.7 x 28. Please take a few minutes to read through this technical manual and familiarize yourself with the details on the proper use and maintenance of your ELEMENT-3 silencer. The chart below lists approved calibers, action types, and minimum barrel lengths approved for use with the ELEMENT-3 silencer.

CALIBER	ACTION TYPE	MIN. BBL LENGTH
22 S/L/LR	BOLT ACTION, SEMI/FULL AUTO	2.8 INCH
22 WMR	BOLT ACTION, SEMI AUTO	4 INCH
17 HMR	BOLT ACTION, SEMI/FULL AUTO	8 INCH
17 M2	BOLT ACTION, SEMI/FULL AUTO	8 INCH
5.7 x 28	BOLT ACTION, SEMI AUTO	4.5 INCH

WARNING! Do not use this silencer with ammunition and host firearms that fall outside the list in the chart on the previous page. Using this silencer with ammunition and host firearms that fall outside the list in the chart on the previous page may lead to property damage, personal injury and/or death.

INSTALLING YOUR ELEMENT-3 ON A HOST FIREARM

1. Always keep the firearm pointed in a safe direction.
2. Render the firearm safe by removing the magazine, completely unloading the firearm (chamber and magazine) and engaging the safety to the "SAFE" position. See the firearm's owner's manual for detailed instructions.
3. Remove the thread protector from the muzzle, if present.
4. Inspect the muzzle threads to verify they are clean and undamaged.

WARNING! Never attempt to attach a ELEMENT-3 silencer to muzzle threads that are dirty or damaged, as this may lead to property damage, personal injury and/or death.

5. Inspect the threads in the rear of the ELEMENT-3 to verify they are clean and undamaged.

WARNING! Never attempt to attach a ELEMENT-3 silencer with dirty or damaged threads to a firearm, as this may lead to property damage, personal injury and/or death.

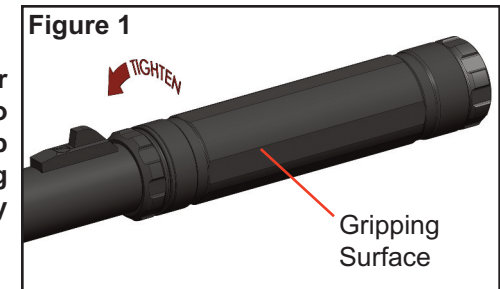
6. Look through the silencer from the rear to insure the bullet path through the silencer is unobstructed.

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

7. Examine the silencer for any signs of damage.
8. Carefully screw the silencer onto the host firearm's muzzle threads in the direction indicated in Figure 1.
9. Tighten the silencer by hand in the direction indicated with sufficient torque to keep the silencer securely threaded onto the barrel during op-

eration.

NOTE: When tightening or loosening the ELEMENT-3 to or from a host firearm, grasp the silencer by the gripping surface on the tube body identified in Figure 1.



WARNING! It is the responsibility of the user to insure the silencer stays securely threaded to the barrel of the host firearm during use. Failure to insure the silencer stays securely threaded to the host firearm may lead to property damage, personal injury and/or death.

VERIFYING SECURE INSTALLATION OF YOUR ELEMENT-3

It is good practice to check the tightness of your ELEMENT-3 on the host firearm between reloads when the host firearm is completely empty (chamber and magazine) when shooting.

CAUTION! Silencers can become extremely hot while the host firearm is being shot. Heat-resistant gloves must be worn when verifying the security of the installation of a ELEMENT-3 silencer on the host firearm. Handling a hot silencer without heat-resistant gloves may cause skin burns and/or personal injury.

1. Always keep the firearm pointed in a safe direction.
2. Render the firearm safe by removing the magazine, completely unloading the firearm and engaging the safety to the "SAFE" position. See the firearm's owner's manual for detailed instructions.
3. Securely tighten the silencer onto the host firearm's muzzle threads in the direction indicated in Figure 1.

REMOVING YOUR ELEMENT-3 FROM A HOST FIREARM

1. Always keep the host firearm pointed in a safe direction.
2. Render the firearm safe by removing the magazine, completely unloading the firearm (chamber and magazine) and engaging the safety to

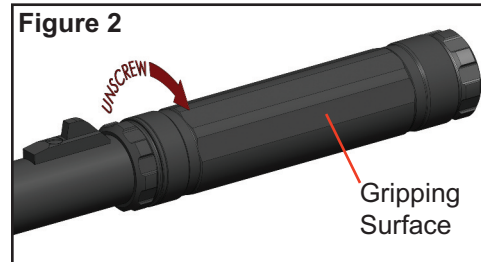
the "SAFE" position. See the firearm's owner's manual for detailed instructions.

3. Verify the silencer is at ambient temperature. If the silencer is hot, allow it to cool.

CAUTION! Never handle a hot silencer without heat-resistant gloves, as this may cause skin burns and/or personal injury.

NOTE: WHEN TIGHTENING OR LOOSENING THE ELEMENT-3 TO OR FROM A HOST FIREARM, GRASP THE SILENCER BY THE GRIPPING SURFACE ON THE MAIN TUBE BODY IDENTIFIED IN FIGURE 1.

4. Unscrew the silencer from the host firearm's muzzle threads in the direction indicated in Figure 2.

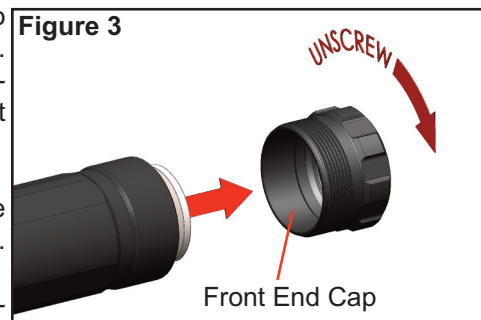


DISASSEMBLING AND CLEANING YOUR ELEMENT-3

It is recommended users remove and clean the baffles in a ELEMENT-3 silencer after every 1,000-2,000 rounds of use.

WARNING! Only perform cleaning and maintenance procedures on silencers that are not mounted to a firearm. Attempting to clean or perform maintenance on a mounted silencer could lead to property damage, personal injury and/or death.

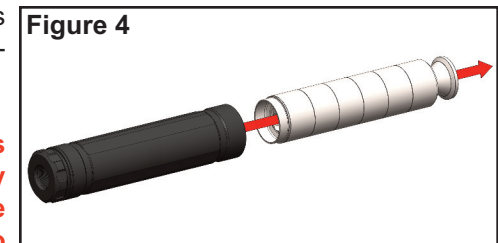
1. If the silencer is mounted to a host firearm, remove it. See "Removing your ELEMENT-3 from a host firearm".
2. Unscrew and remove the front end cap. See Figure 3.
3. Pushing from the rear re-



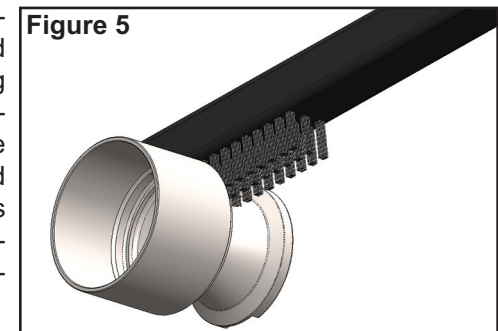
move the seven baffles from the tube body and separate them. See Figure 4.

WARNING! Only 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.

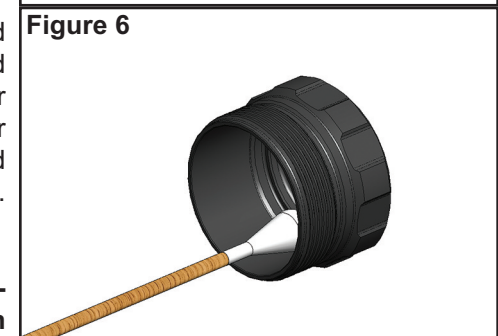
WARNING! Always wear protective gear, such as eye protection and solvent-resistant gloves when working with any solvent. Unprotected exposure to solvents may lead to property damage, personal injury and/or death.



4. The baffles in the ELEMENT-3 are Titanium, and can be safely cleaned using an ultrasonic cleaner. Accumulated fouling can also be removed using a brush and appropriate solvent such as acetone or a cleaning solvent such as CLP. See Figure 5.



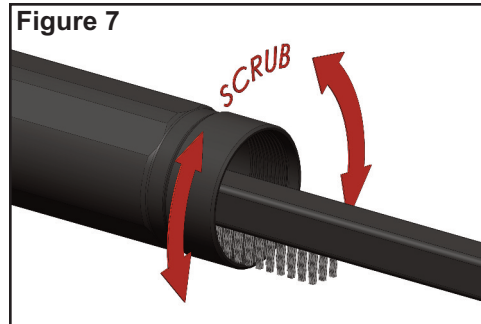
5. Remove any accumulated fouling from the front end cap using a paper towel or shop cloth for the exterior and a solvent-moistened cotton swab for the interior. See Figure 6.



NOTE: The use of an ultrasonic cleaner for the main tube body is NOT recommended as this can damage the CeraKote finish of the tube.

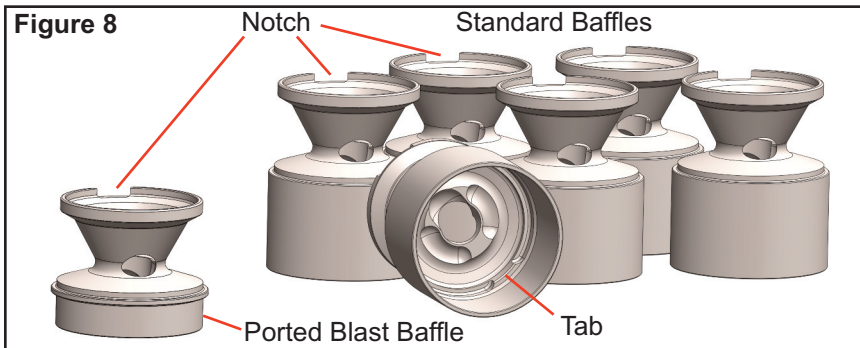
6. Remove any accumulated fouling from the inside of the main tube body using a brush and appropriate solvent such as CLP. Ensure the threads inside the rear end cap are free of any debris or fouling. See Figure 7.

WARNING! All traces of solvent must be allowed to evaporate completely prior to reassembly. Failure to remove all solvent from the silencer prior to use presents a risk of fire or explosion and may lead to property damage, personal injury and/or death.

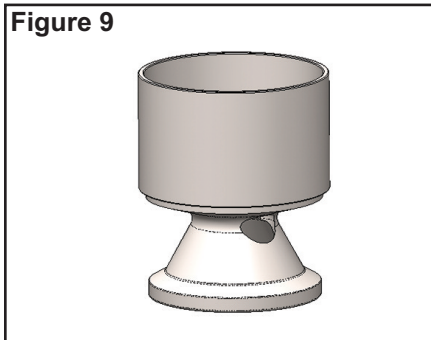


REASSEMBLING YOUR ELEMENT-3

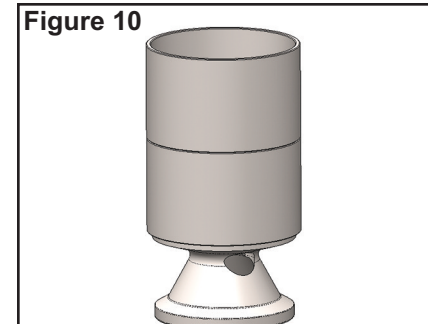
1. There are two types of baffles in the ELEMENT-3: the ported blast baffle and six standard baffles with integral spacers. All of the baffles incorporate a tab and notch design that forces the rotational orientation of each baffle to be 180° from each adjacent baffle. See Figure 8.



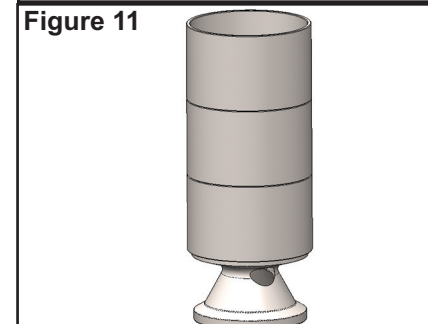
2. Build the baffle stack by placing one of the standard baffles cone-side down on a level, flat work surface. See Figure 9.



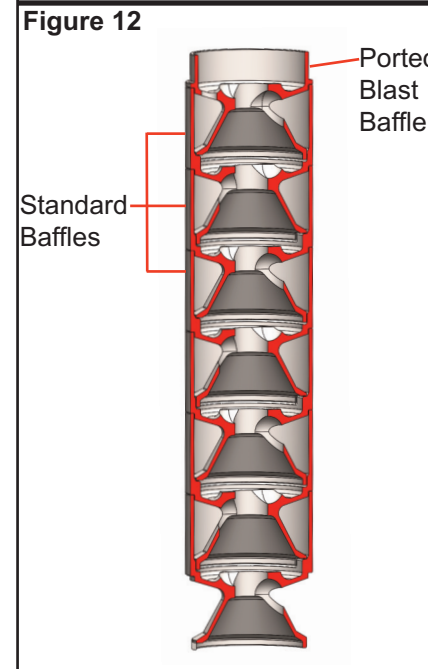
3. Continue building the stack by placing the cone of another standard baffle inside the spacer on the backside of the first baffle. Rotate the second baffle until the notch on the cone of the second baffle engages the tab on the inside of the spacer of the first baffle. When properly engaged, the baffles will nest together with no gap between them. See Figure 10.



4. Place another standard baffle on the stack, rotating it until its notch and the second baffle engage. See Figure 11.

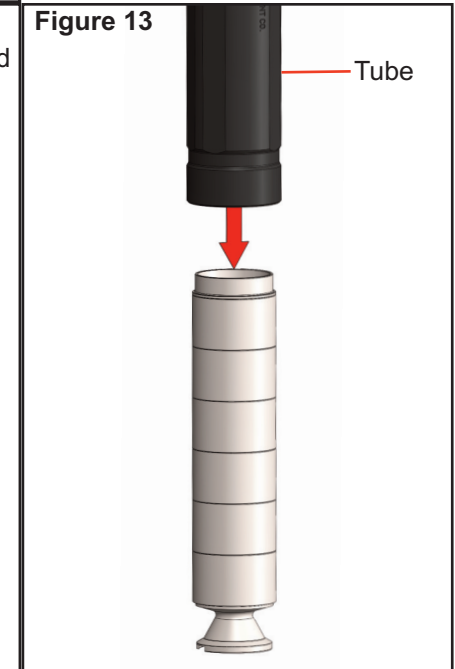


5. The last baffle to go on the rear main tube baffle stack is the ported blast baffle. It can be identified by its short spacer and pressure release port. Place the ported blast baffle in the spacer of the top standard baffle, and rotate it until the notch on the front of the cone of the ported blast baffle engages the tab inside the spacer of the third standard baffle. See Figure 12.

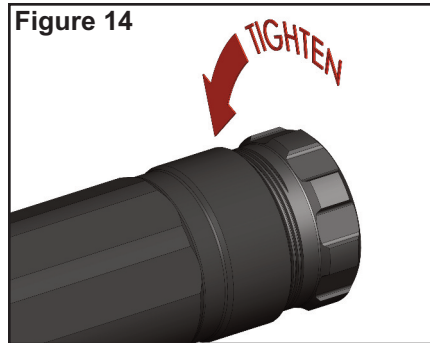


6. Slide the main tube body over the baffle stack. See Figure 13.

7. Apply a light coat of nickel based



anti-seize or high temperature grease to the threads on the outside of the front end cap. Thread the front end cap fully into the tube and tighten securely. See Figure 14.



WARNING! Do not attempt to use a ELEMENT-3 silencer with an improperly assembled baffle stack. Using a ELEMENT-3 silencer with an improperly assembled baffle stack may lead to property damage, personal injury and/or death. Figure 15 depicts a cross sectional view of a properly assembled ELEMENT-3 baffle stack.

Figure 15

