

Acer S Product Manual

Thank you for your purchase of a Replicator suppressor! We are proud to offer the cutting edge in additive manufacturing (3D-printing), providing one of the best, strongest, most advanced suppressors in the industry.

Our products are different: **1)** Our .22 LR suppressors are threaded in 1/2x28 direct thread, the standard .22 barrel thread. No vendor lock-in. **2)** We print and finish our own product. Almost no one does this, and as a result we have the best looking, toughest, highest quality prints. **3)** We use a material (Super-Nickel Titanium alloy, or proprietary Inconel variant) that can only be additive manufactured (3D printed) and is designed for this application - no internal coating to fail and retains about 80% strength at max operating temperature. **4)** One piece prints allow us to make full-auto rated suppressors that are also some of the lightest additive manufactured products in the industry. There are no welds to fail, nor are there 2 or 3 metals expanding and contracting at different rates

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Included Components

Suppressor

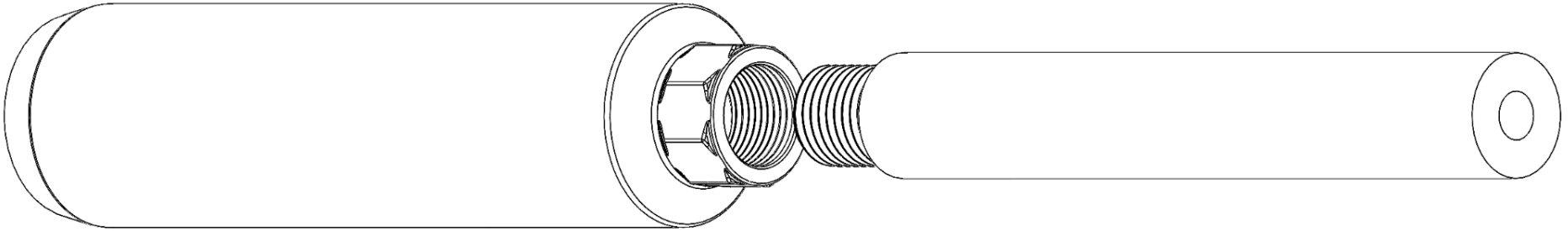


Before First Use (optional):

Note: Many users do not require this step, as our material resists fouling and there is no internal coating to fail. If you plan on shooting many thousands of rounds, you may measure weight and/or volume. Build-up varies from host, caliber, ammunition etc., but most users can get anywhere from 2,000 to 5,000 rounds before cleaning is beneficial

1. Procure an accurate scale and/or graduated cylinder for measuring purposes. Weigh product with scale or determine manufactured inner volume using liquid measure. Record measurement(s). Every 1k-2k rounds, repeat measurement to determine how much carbon is being retained (increase in weight/decrease in fluid volume)
2. If suppressor has built up 0.3-1 oz or 9-28 grams of weight, or 5-10% of overall volume, cleaning is recommended

Mounting Procedure



Note: mounting should always be performed by a licensed gunsmith. Improper mounting can lead to serious injury or death and suppressor damage. Always verify the mount is secure before shooting. Verify thread to barrel and thread to suppressor are secured with a thread locker like Vibra-Tite, Rocksett or Loctite etc. and cured for the full cure time (For instance, Loctite Red 271 Requires 24 hours for a full cure time with no oxygen reaching the liquid)

1. Before Mounting, verify the host is unloaded (host chamber is empty and no magazine or ammunition are present)
2. Clean all thread surfaces with solvent and verify no oil or debris is present
3. Use thread locker on threads to suppressor and threads on barrel. Follow manufacturer instructions for your choice of thread locker
4. Thread suppressor on to host barrel
5. Always verify with a straight bore alignment rod that the installation is correct and the alignment rod is not hitting any baffles

Removal Procedure

1. Before Removal, verify the host is unloaded (host chamber is empty and no magazine or ammunition are present)
2. Unscrew suppressor from host barrel using a ¾ wrench. Good quality wrenches and possibly tape will help prevent marring of the surface

Usage Notes

1. Any time a mounting procedure has been performed, check that the suppressor is aligned correctly and that the threads are not loose
2. During use/in between mag changes or loading, verify suppressor threads are not loose. If threads are loose, perform mounting procedure with thread locker again
3. Baffle strikes and impacts, leading to suppressor damage, may occur if:
 - Mounting solution is not properly achieved or defects/damage exist in mounting solution
 - Mounting solution is loose or not tightened properly
 - Barrel is damaged, or Incorrect ammunition for host is used
 - Ammunition is of poor quality and jacket separation happens
4. While the material we use has a safer failure mechanism (usually deformation instead of cracking) than most other metals, do not use a damaged suppressor. Damage due to strikes can deform baffles. Damage due to overpressure can create bulges. Always have a qualified gunsmith verify function. Contact Replicator if damage occurs

Cleaning

- CCI Clean or other clean ammunition is recommended and will reduce build-up.
- Standard “dirty” ammo will likely accumulate at about 0.3 oz per 2,000 rounds. Many people that shoot under 5,000 rounds will not have to clean this suppressor due to design and materials.
- With standard “dirty” .22 LR ammunition, we recommend cleaning every 1-3K rounds (depending on barrel length, caliber, ammunition powder, and other factors) in an ultrasonic cleaner with a specific .22 LR cleaner. Many products are now out on the market specifically made for suppressor cleaning for .22 LR and should be utilized.
- Verify cleaning agent is in all internal chambers and no air is present on the inside of the suppressor. Make sure to flip the suppressor end over end and rotate many times when submerged in the cleaner. A jar with a lid may be helpful when performing this operation
- Once cleaning is completed, drain all liquid, blow out with compressed air, and shoot within 30 minutes
- Note: The use of cleaning patches and tumblers should not be used, as they may become lodged in the internal features and go unnoticed before firing. Never fire through an obstructed suppressor
- Note: The use of cleaning solvents, citric acids, and CLR can cause discoloration, abrasion, or corrosion on some muzzle devices. You may clean often to avoid difficult-to-remove debris, and use the most gentle cleaning solution possible

Specifications

Caliber	.22 LR	Rating	Semi-Auto only
Weight	4.0 oz	Pressure Rated Up To	.22 LR
Diameter	1.0 in		
Length	4.3 in		
Temp Rating	Suggested 700F or lower		

Hosts: The Acer S is our shortest and lightest .22 LR suppressor and excels on pistols and rifles. It is meant for maximum suppression up until 1200 FPS ammunition velocities. Higher velocities will lose a few decibels of suppression but are still very pleasant and hearing safe. It is not full auto rated.

While we have a tremendous amount of time and money invested in this, we are not yet one of the "big guys", we truly appreciate your business and trust. Please be safe, responsible, and store your firearms properly. Let's continue to build the 2A community up by being good examples and teaching others about our inalienable rights.

Contact Us

support@replicatorusa.com - (877) 803-1337 ext 2 - [Limited Lifetime Warranty](#) on website