

# Liberty Suppressors

## Leonidas Gen 2 Operators Manual

[www.libertycans.net](http://www.libertycans.net)  
(706) 661-6911 - [support@libertycans.net](mailto:support@libertycans.net)

## **Cleaning instructions**

- First, make sure the firearm is unloaded and there is no ammunition in your workspace
- Remove the upper from the lower receiver, and take out the bolt carrier group and charging handle
- The upper and bolt group can be cleaned as normal, and the bolt carrier group is NP3 coated to make this easier
- To clean the bore, we recommend use of a Boresnake™ or similar product. Use of patches is not recommended, as they will most likely become trapped in the suppressor module and become dangerous bore obstructions.
- Use of solvent and gun oil are completely acceptable and it won't damage the silencer if it gets inside. But be warned; the first few rounds after cleaning the bore or monocoil module will likely be much smokier than usual. Make sure that any solvent used is safe with titanium, as that is the material of the baffles and outer tube.
- The suppressor module doesn't need much, if any, maintenance in regards to cleaning. However, if you would like to clean it anyway, you may do so by removing the lock ring at the front of the silencer and sliding the tube off of the end.

## **Gas system adjustment**

- The gas system can be adjusted if needed, but is pre-configured to cycle most subsonic ammunition. If you do not wish to adjust it, you can leave it as issued from the factory.
- To make adjustments, you'll first need to remove the lock ring and outer tube. We do make a wrench to make removal of the lock ring easier, part# LEO110WO.
- Next, take a small (5/64) allen wrench and adjust the small screw on the side of the gas block.
- Screwing it in more will reduce the amount of gas pressure going into the system.

- If you're using primarily supersonic ammo, then some adjustment could be useful for you. Factory subsonic loads should cycle as-is, and handloads will depend on the user.
- Reassemble by putting the tube back on and re-installing the lock ring.

## **Ammunition recommendations**

- Any good quality 300 Blackout ammunition should be fine in this upper.
- If the projectile weight is less than 190 grains it will likely be supersonic, meaning that it will break the sound barrier and cause a sonic boom. This is not due to an ineffective silencer, but rather is a fact of the bullets performance. The Leonidas Gen 2 can handle supersonic ammunition with no problems, but for best suppressed performance we recommend subsonic rounds be used.
- Any bullet type that is stable and homogenous is acceptable, including cast lead bullets. FMJ, hollow point, ballistic tip, etc. are all fine as long as they're stable.
- With cast lead, more cleaning of the bore and silencer will be needed. See the "Cleaning instructions" section above for more information.
- We do not recommend the use of foreign made (such as Russian "Wolf" or similar) ammunition, as it is generally of a lower quality and is less likely to be stable.

## **Accessory mounting**

- MLOK accessories cannot be mounted to the majority of the rail, since the clearance between the rail and the outside of the suppressor tube is too small to allow the t-nuts inside.
- For this reason, we recommend using the Picatinny / 1913 top rail for mounting accessories such as weapon lights or IR devices. Many of these (such as the Cloud Defensive OWL or the B.E. Myers MAWL) are made to interface this way, and most standard weapon lights (like the Surefire Scout series) have offset mounts that can be used in this way as well.

# Liberty Suppressors

Specifications for the Leonidas Gen 2 integrally suppressed upper receiver

**Model name:** Leonidas Gen 2

**Weight:** 4lb 12oz

**Length / Diameter:** x 1.625" (Suppressor Module)

**Materials:** Titanium (core and tube), stainless steel (blast baffle)

**Attachment:** Integral built on AR15 upper assembly

**Description:**

The Leonidas Gen 2 balances gas blow back and ejector port noise with world class suppression to give the user an extremely pleasant shooting experience. The suppressor module is pinned and welded to the barrel making the overall length 16.5" (1" shorter than the original Leonidas Ti) and keeping it a one tax stamp, integrally suppressed firearm. Here at Liberty Suppressors, we truly believe the Leonidas Gen 2 is the king of the 300!

This upper is built in such a way that it only requires a transfer tax on the silencer and is not considered an SBR. This is a "pinned" configuration. By permanently attaching the silencer to the upper we eliminate the need for an additional SBR tax stamp as well as the paperwork associated with it.