

# LIBERTY SUPPRESSORS

113 GUNSMOKE TRAIL

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## Torch QA Mount Installation Instructions

The Torch QA was designed to be installed on 11.5" and longer AR15 type rifles or rifles with at least 1.440" of space behind the flash hider lockwasher. This space is to clear the mounting device as it cannot contact any part of the rifle other than the thread torque shoulder. See Figure 1. Clearing the bayonet lug allows the device to center on the barrel threads and aligns with the torque shoulder appropriately. Most rifles will be in alignment, but there is the odd occasion that a barrel is not threaded concentric. For this reason, it is important to make sure you check the alignment of the barrel to the suppressor before firing the rifle. One of the easiest ways to check this is to remove the upper from the lower. Remove the bolt group and charging handle from the upper. Install the suppressor on the upper and look through the barrel at the blue sky or a white cloud. While doing this, check to make sure that the shadow of the suppressor where it meets the barrel is centered around the bore of the barrel. It will be noticeable if it is off much at all. We build in some tolerance for this when we build the suppressor, but it should be checked before the system is used for the first time.

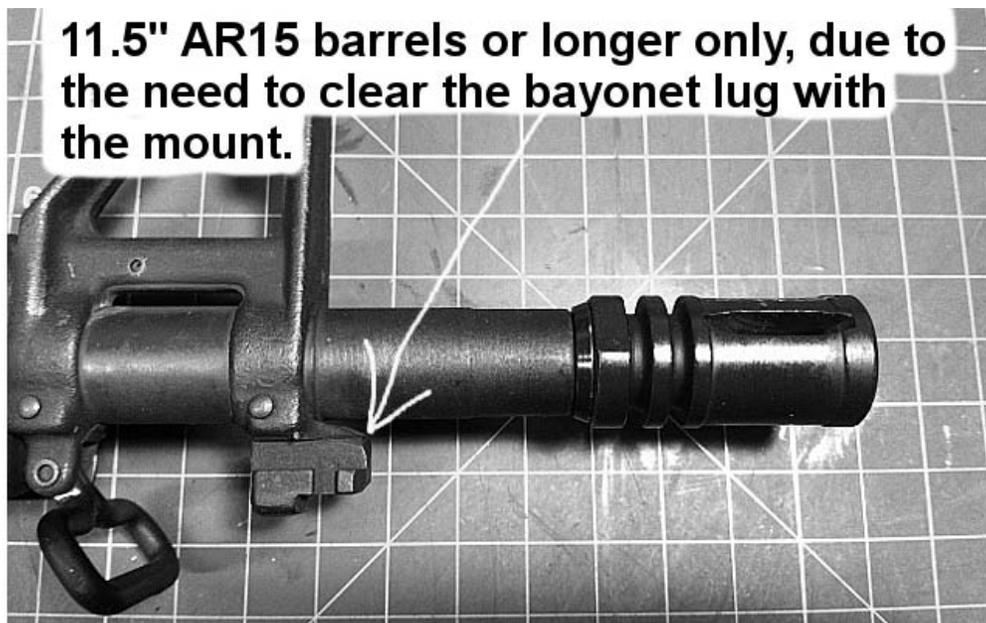


Figure 1.

To install the mount, first remove the flash hider and washer from the rifle. Be careful here as these are usually VERY tight and will require you to use a large amount of force to break them loose. A  $\frac{3}{4}$ " wrench fits on the flats on the flash hider, but you might have to try a few to find one that will be narrow enough to fit.

**Remove this washer.**



Figure 2.

If you are using a timed muzzle device, like a horizontal discharge brake, A2 birdcage flash hider or the like, then have a qualified gunsmith time your device either by machining the rear of the device to time it into position or to shim it with a peel washer or brake fitting washers. If washers must be used, they must be placed between the suppressor mount and the muzzle device (flash hider) and not behind the suppressor mount so as to “hide” the washers from view. Hiding them in this way causes tolerance stacking between the barrel, washers, and mount to occur and can result in baffle strikes on your suppressor.

The use of Loctite is recommended but is not required with this mount to prevent loosening during use. Rocksett is also a great alternative to Loctite brand products as well. Tension on the flash hider should be approx. 15 ft/lbs. of torque.

The mount simply slips over the barrel threads like in Figure 2A below. There are three different washers shown in Figure 2A for reference, your rifle can have any one of these on it.

Remove the washer that is illustrated in figure 2 and set it aside.



Figure 2A.



Figure 3.

Once the flash hider is reinstalled, check that the mount is clear of the bayonet lug as shown in Figure 3.