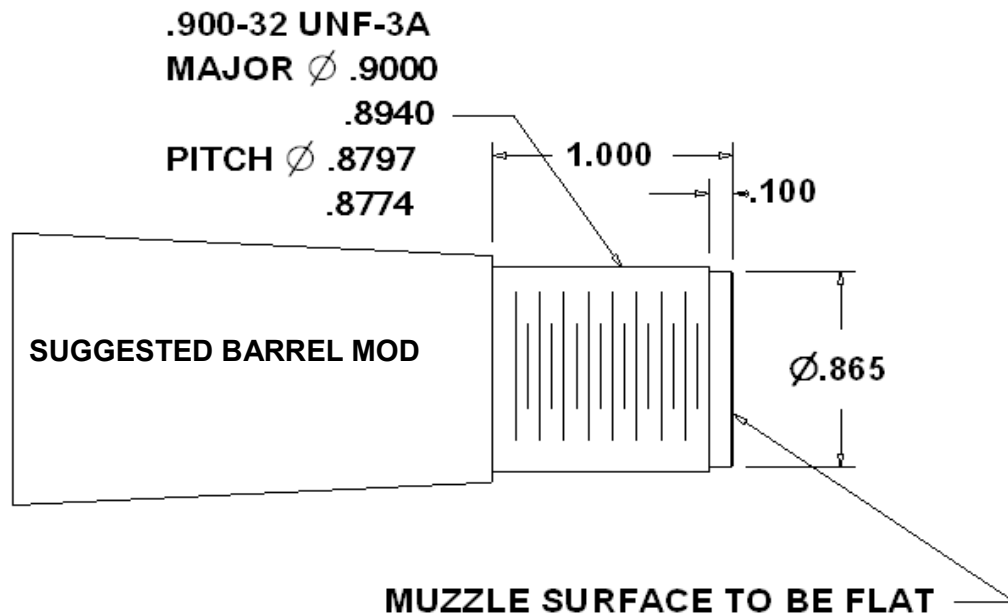


## ***PLEASE READ BEFORE INSTALLING OR USING YOUR NEW BARREL TUNER***

*Installation:* Turn down 1.00 inch of the muzzle end of the barrel to a diameter of .900 inch. Thread the turned down muzzle with a 32tpi until the muzzle tuner will screw on. The threads will need to be within .100 inch of the shoulder. **It's important that the tuner locks up at the muzzle and not the shoulder at the rear of the threaded part.** If needed, cut a small relief at the rear shoulder location to keep the tuner from locking up here. This is necessary to keep the tuner vibrating with the barrel and not as a separate and individual part. Muzzle face surface must be flat and smooth, remove any dish or counter-bore.



Clean the muzzle and tuner threads thoroughly and then screw the tuner body on the muzzle threads. Tighten tight, but by hand only. Now, make sure the tuner body's outside threads are clean and screw the numbered weight onto the body with the numbers facing to the rear, (toward you the shooter).

The weights can be anywhere along the 1.00 inch threaded tuner body. But, we recommend starting with the weights flush with the muzzle end of the body so as to move the barrel's "sweet spot" nearer the muzzle. For most applications, the tuner will hit a "tuning node" about every .052 inch of fore or aft travel. Since the tuner has 32tpi, each full revolution will move the weights .03125 inch fore or aft.

*To start tuning:*

Start with a good load. Start with the front, muzzle end, lock ring flush with the front surface of the tuner, then lock the rings together with the "zero" at the 12 o'clock position. Shoot a 3 round group, record results. Turn rings 2 index lines counter clockwise (viewed from index mark side). Repeat 3 round group, record results. You will see a pattern very soon. Continue this process until you can see where the best group was. Go back to this setting and then "fine tune" using lesser rotations. i.e. one index line or less.

After finding the optimum setting be sure to record that setting, and the environmental conditions. We found during testing moving the weights toward the muzzle gave results similar to increasing the powder weight and moving the weights away from the muzzle gave results similar to decreasing the powder weight. Another good way to record the rings setting is to measure the distance from the tuner "muzzle" to the front ring using a set of calipers.

Keep the tuner tight on the barrel and the weights tightly locked together. The principal that makes the muzzle tuner work is dependent on the tuner body and the weights being tight enough that they vibrate with the barrel rather than independently.

*Go shoot small groups and enjoy!*

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