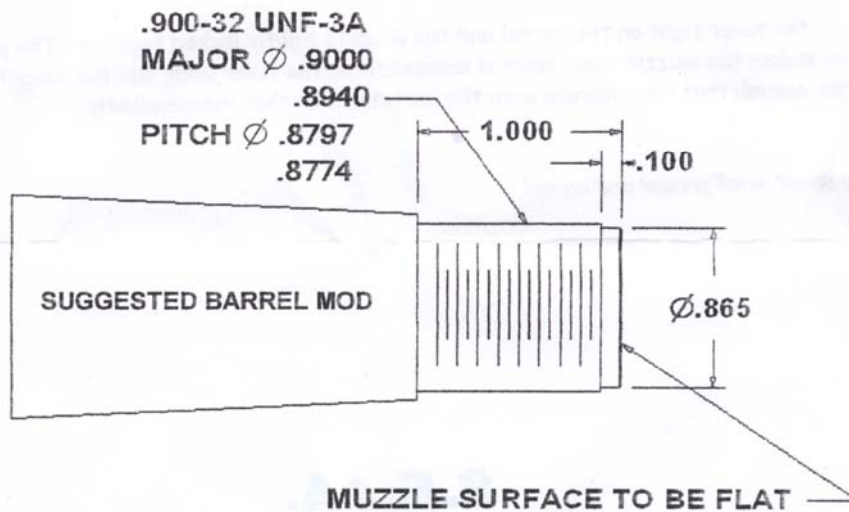


**PLEASE READ BEFORE INSTALLING OR USING
YOUR NEW BARREL TUNER**

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 counterbore.



Clean the muzzle and tuner threads thoroughly and then screw the tuner body on the muzzle threads. Tuner body should only be hand tightened. Avoid over-tightening! You may use a small amount of a light to medium strength thread locking agent. 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.

The weights can be anywhere along the 1.00 inch threaded tuner body. But, we recommend setting the weights near the forward 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.

When you first use your tuner, we suggest that you move the weights about 18 to 22 turns from the rear and lock them together with the zero pointing up. Be sure to count the number of turns, from the front of the tuner or from one of the index grooves. Then tune your rifle using powder as usual.

Most rifles will be a bit different as to how much to move the tuner weights to keep the gun in tune. However, we suggest you start out moving the weights by turning the weights in 1/8th turn increments. Record the starting position. Shoot a group and then turn weights 1/8th turn, either way. Shoot another group and repeat process and record results. 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.

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!

S.E.&A.
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