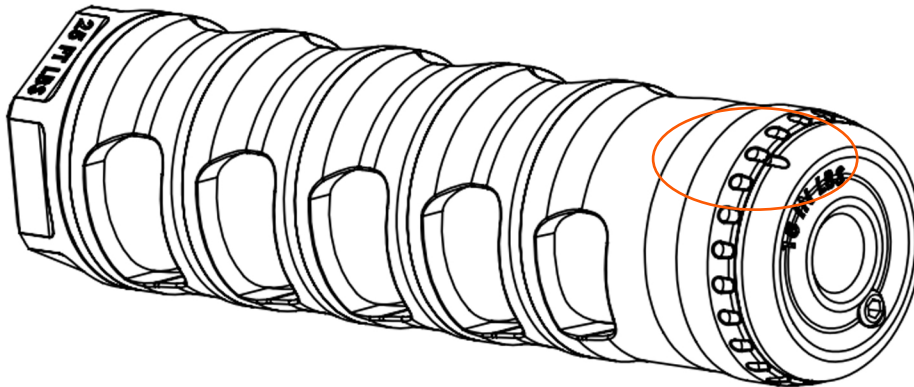


# WARNING

## HOW TO USE AND ASSEMBLE YOUR CHAD TUNER MUZZLE BRAKE:

(1) Thread your tuner weight into the muzzle brake clockwise until it stops. Then thread your tuner counter-clockwise until the witness mark on the tuner lines up with the next adjustment mark on the body of the brake. This will be the default setting of the tuner. Assembled it should look like this.



(2) Next screw the 8-32 set screw into the tuner weight until it stops, then torque it to the spec written on the tuner weight. 18 IN LBS. **(Do not overtighten.)**

(3) Next thread the entire brake assembly onto your muzzle threads clockwise until it stops. Then thread the device counter-clockwise until the horizontal gas ports are level. Then holding the muzzle brake and using your locking collar, turn the locking collar counter clockwise until the locking collar contacts the shoulder of the muzzle. Torque it to 25 ft-lbs. This will be tight enough that you can't get it off by hand and hitting the chad on objects won't work the device loose. **(We do not recommend installing muzzle brakes hand tight because they will come loose and ruin matches and hunts.)**

(4) To adjust your barrel tuner; shoot a three to five round control group with the tuner on the default setting. Then starting in increments of one, turn the tuner counter clockwise one adjustment mark, lock it down again and shoot two rounds.

If the two rounds are touching, shoot a third, if the fourth round is touching, then shoot a fifth.

**Do not break your position between shots. Demonstrate good follow through, proper shooting technique and good trigger presses. (Shooting groups with a bad or unstable position/in poor shooting conditions ie: mirage will just waste ammo, annoy you and will achieve nothing.)**

If at any point you get a flier, stop shooting and go to the next adjustment mark on the locking collar. This will ensure you save ammo, time and barrel life when finding the ideal setting for your barrel.

When you find a group you're satisfied with, return the tuner to its original default setting and shoot another three to five round control group again to confirm, then head back to the new setting you discovered and shoot a three to five round group to compare against the default setting. If you see consistent improvement between the default and new setting, then you have successfully tuned your setup.

If your fundamentals are solid and rifle is in good condition, your results should be repeatable and you should be able to end up with consistent and small five shot groups. If at any point you cannot achieve this, trouble shoot your rifle, ammo or shooting technique. We have never not been able to make a load shoot with our tuner.

Tuners are a tool and can be used with great success. They also don't have to be used at all but you'll still benefit from the dampening the weight has on the barrel. So if you decide you don't care for it, just lock it down and leave it alone on the default setting.

For more details info on how to use your tuner check out video series on our youtube channel or send me an email at [bj@withoutwarning.com.au](mailto:bj@withoutwarning.com.au).