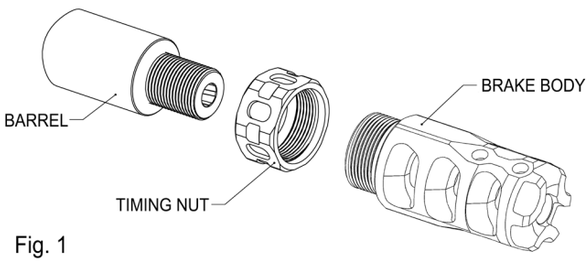

Fig. 1

Hypertap® Ti Muzzle Brake Instruction Manual

WARNING! FAILURE TO READ AND FOLLOW ALL INSTRUCTIONS BEFORE INSTALLATION AND/OR USE CAN RESULT IN PROPERTY DAMAGE, SEVERE INJURY OR DEATH.

WARNING! MAKE SURE FIREARM IS UNLOADED BEFORE INSTALLATION, REMOVAL, OR MAINTENANCE. VISUALLY INSPECT CHAMBER, MAGAZINE, AND FIRING MECHANISM TO BE CERTAIN NO AMMUNITION IS IN THE FIREARM. FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

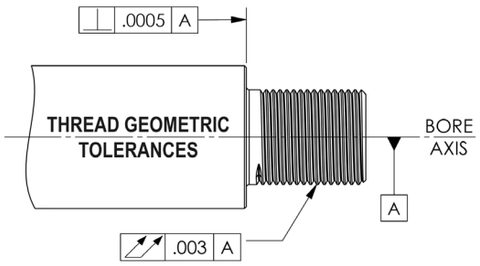

Fig. 2

IMPORTANT: Fig. 2 outlines barrel thread geometric tolerances required for installation, most factory barrel threads should satisfy these requirements. For thread specifications and dimensions please visit: www.precisionarmament.com/manuals

INSTALLATION: Prior to installation be sure threads are completely clean and undamaged. If device does not thread onto barrel freely do not force it, STOP and contact Precision Armament. Depending on firing schedule, a high temperature (i.e. Loctite® 272) or ultra-high temperature (i.e. Flexbar® Rocksett) thread locking compound may be used on the barrel threads only.

1. Hand tighten the timing nut all the way onto brake body until it stops. (**NOTE**: The timing nut is machined with a LEFT-HAND thread. This means rotating the nut clockwise will loosen it, and counter-clockwise will tighten it.)

2. Gripping the brake body only, thread the brake body/nut assembly onto barrel until it stops.

3. Rotate the brake body/nut assembly back (no more than one full rotation) until the assembly is correctly timed (logo and compensation ports at the 12 o'clock position).

4. Hold the brake body in timed position using either the included spanner tool inserted over the skeletonized crown (Fig. 3) or an adjustable wrench on the top/bottom flats. Note: Spanner tool can be used to assist timing alignment by eye sighting the wrench handle to a vertical orientation).

5. Turn the timing nut back until it contacts the barrel shoulder. Using the other included spanner tool inserted into the nut slots (Fig. 3) or an additional adjustable wrench on the nut flats, apply approximately 20 ft-lbs of torque. (The included spanner tool will achieve approximately 20 ft-lbs when torqued as hard as comfortably possible).

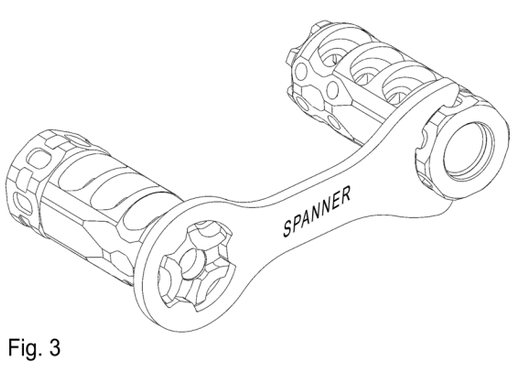

Fig. 3

REMOVAL: Turn the TIMING NUT in the opposite direction from installation using either the included spanner tool (Fig. 3) or an adjustable wrench. Once the pre-load torque is breeched, the brake/nut assembly will thread freely off barrel.

WARNING! PROPER BORE CLEARANCE MUST BE PHYSICALLY MEASURED AND VERIFIED BEFORE FIRING THE WEAPON FOR THE FIRST TIME. THIS MUST BE PERFORMED BY A QUALIFIED GUNSMITH OR ARMORER USING A PRECISION BORE ALIGNMENT ROD. DIAMETRIC BORE CLEARANCE MUST BE VERIFIED AT .060" WITH APPROXIMATELY EQUAL CLEARANCE AROUND THE CIRCUMFERENCE OF THE ROD.

WARNING! NEVER INSTALL THIS MUZZLE DEVICE ON A FIREARM OF A LARGER DIAMETER CALIBER THAN THE BORE APERTURE WILL ACCOMMODATE. THIS CAN ONLY BE DONE IF THE BORE IS ENLARGED TO ACCOMMODATE THE LARGER CALIBER. THIS SHOULD ONLY BE PERFORMED BY A QUALIFIED GUNSMITH. REQUIRED MINIMUM DIAMETRIC BORE CLEARANCE IS 0.060" OVER BULLET DIAMETER.

WARNING! This device operates by redirecting high-pressure gases at the muzzle. As a result, sound levels are significantly increased and debris, gas, and propellant particles can be propelled back towards the shooter or nearby observers. EYE AND EAR PROTECTION MUST BE WORN AT ALL TIMES WHEN SHOOTING OR OBSERVING.

WARNING! This device must be free of any obstructions such as dirt, mud, snow, etc. before shooting. NEVER ATTEMPT TO SHOOT THROUGH AN OBSTRUCTED MUZZLE BRAKE.

WARNING! If this device becomes loose or rotates during use STOP SHOOTING and immediately UNLOAD the firearm. Repeat the installation procedure before returning the firearm to service.

WARNING! In the event of a Bullet-to-Baffle collision or "Baffle Strike", high velocity debris may be deflected from the baffle impingement surface at an angle up to 20-degrees greater than the baffle angle (Fig. 4). This debris may include bullet and/or baffle fragmentation that is capable of causing severe bodily injury. This device has a maximum baffle angle of 35-degrees thereby creating a 55-degree Debris Backblast Zone on each side of the shooter (Fig. 5). It is important to precisely follow all installation and maintenance instructions to minimize the risk of a baffle strike. However, it is the responsibility of the shooter to anticipate the possibility of a baffle strike and MAKE SURE ALL BYSTANDERS ARE CLEAR OF THE DEBRIS BACKBLAST ZONE BEFORE DISCHARGING THE FIREARM.

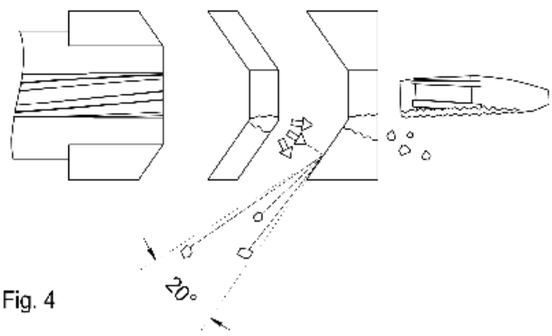

Fig. 4

WARNING! This device produces high pressure, high temperature exhaust jets in the Debris Backblast Zone (Fig. 5). All body parts, weapon forearms, and/or weapon attachments must be kept within the Safe Zone (Fig. 5) and at a minimum safe distance of 2 inches behind the back of the device. Any object, including body parts, located within close proximity to the exhaust jets, may be damaged, or destroyed. Any hard object located within the Debris Backblast Zone may further deflect dangerous debris causing injury to the shooter and/or bystanders.

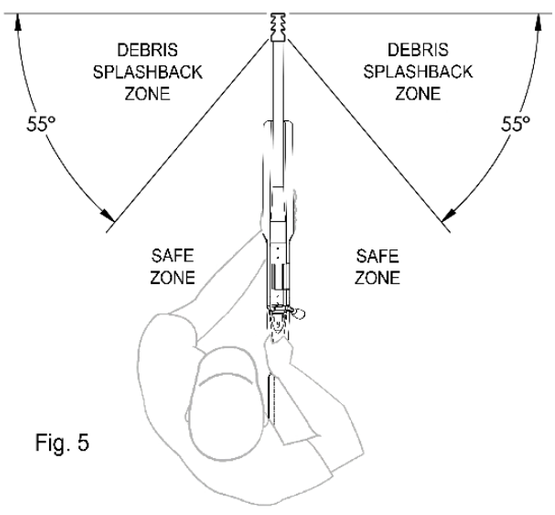

Fig. 5

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