

**Wheeler™**  
**Engineering**  
*Fine Gunsmithing Supplies*

## FIREARM ACCURIZING TORQUE WRENCH

Wheeler's F.A.T. Wrench™ brings perfect consistency to every screw on your rifle! This amazing handheld torque wrench lets you apply repeatable, accurate torque settings to scope rings, guard screws, and other screws, which aids in accuracy and decreases the opportunity for problems in the field.

**THE  
FAT  
Wrench™**  
FIREARM ACCURIZING  
TORQUE WRENCH

**Accurately Tightens:**

- Scope Ring Screws
- Rifle Guard Screws
- Windage Screws
- Base Screws

**T O R Q U E**  
**W R E N C H**

*Square Drive Adapter Bit*

*Leupold / Buehler Windage Bit*

*T10 Torx Bit*

*#10 Deluxe Flat Blade Bit*

*T15 Torx Bit*

*#11 Deluxe Flat Blade Bit*

*T20 Torx Bit*

*#32 Deluxe Flat Blade Bit*

*3/32" Allen Bit*

*5/32" Allen Bit*

The Wheeler Engineering F.A.T. Wrench is a hand driven, click/clutch style torque wrench that is very useful for applying the necessary torque to most firearm and firearm accessory fasteners. F.A.T. Wrench features a thick ergonomic handle, a standard ¼" drive tip, and can be used to apply torque from 10 to 65 in-lbs at 5 in-lb increments. Common uses include, but are not limited to; installation of scope ring and base screws, action screws and trigger guard screws. With proper care and use, the F.A.T. Wrench will provide you with a lifetime of reliable service. Package includes 9 bits and a square drive adapter.



Label #400-004

## **F.A.T. WRENCH USER INSTRUCTIONS**

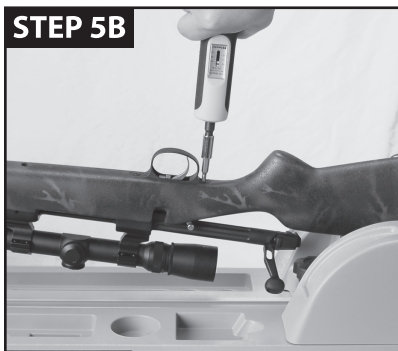
To adjust the Wheeler Engineering F.A.T. Wrench, please follow these steps to guarantee the most accurate torque settings:

**1.** Begin with the F.A.T. Wrench adjusted to the lowest torque setting. To do this, grasp the body of the F.A.T. Wrench as shown in Step 1. Using your other hand, grasp the black knob at the bottom end of the handle. Pull the knob away from the handle to unlock it, and turn it counter-clockwise. The knob is spring loaded and will return to the locked position when it is released, preventing it from being turned. You must repeatedly pull the knob and turn it counter-clockwise until it comes to a stop. The red mark on the sliding indicator should be visible at the bottom of the scale below the 10 tic mark, as shown in Step 1. This is also the where the F.A.T. Wrench should be adjusted when it is not in use.

**2.** Using the same technique described in Step 1 to adjust the wrench, pull and turn the knob clockwise until either the upper or lower edge of the red mark on the sliding indicator is aligned with the desired tic mark on the scale. If the upper edge of the red mark on the sliding indicator is aligned with the tic mark, the torque produced will be equivalent to the number on the scale next to the tic. This can be seen in Step 2A, where the F.A.T. Wrench is adjusted to 30 in-lbs. If the lower edge of the red mark on the sliding indicator is aligned with the tic mark, the torque produced will be equivalent to the number on the scale next to the tic plus five. For example: If the lower edge of the red mark on the sliding indicator is aligned with the 30 tic mark, the torque produced will be  $30 + 5 = 35$  in-lbs (See Step 2B).

**NOTE: This is how you achieve a 65 in-lbs setting.**

**3.** When the F.A.T. Wrench is adjusted to the desired torque setting, make sure the knob has returned to the locked position. This may require turning the knob slightly one way or the other and pressing it back into the locked position.



## **USER INSTRUCTIONS, CONTINUED**

**4.** Place the square drive adapter on the 1/4" drive tip of the F.A.T. Wrench. Insert the bit required to torque the desired fastener into the adapter. The F.A.T. Wrench can now be used to apply torque to the fastener.

**5.** Tighten the fastener by turning the F.A.T. Wrench clockwise. As the fastener begins to get tight, turn the F.A.T. Wrench **SLOWLY** until you hear an audible click. Turn it once more until you hear it click a second time. The fastener has now been tightened with the torque specified on scale.

**6.** After use, return the F.A.T. Wrench to the lowest torque setting as described in Step 1.

**Note:** When using the F.A.T. Wrench to torque small fasteners, make sure the bit and the head of the fastener are correctly aligned. Correct alignment will prevent damage to both the bit and fastener.

## **A FEW USEFUL TIPS:**

- The F.A.T. Wrench is used like a screwdriver; it is not a ratcheting device.
- Never leave the F.A.T. Wrench adjusted at high torque settings for extended periods of time. Doing so will damage the internal mechanism, resulting in inaccurate torque adjustment. **ALWAYS ADJUST THE F.A.T. WRENCH TO THE LOWEST TORQUE SETTING AFTER USE.**
- Never adjust the F.A.T. Wrench beyond a torque setting of 65 in-lbs. Doing so will damage the internal mechanism, resulting in inaccurate torque adjustment.
- The F.A.T. Wrench is compatible with all of the bits contained in the Wheeler Engineering 89 Piece Screw driver Set as long as the square drive adapter is used.
- The F.A.T. Wrench was designed for +/- 2 in-lbs accuracy.
- The F.A.T. Wrench can be used to apply torque to any fasteners; it is not limited to firearms and firearm accessories.
- Small, inexpensive screws can be damaged with high torque settings. Be sure to comply with recommended settings.
- Small bits can also be easily damaged with high torque settings. Replacement bits are available from many of our dealers and through our website.



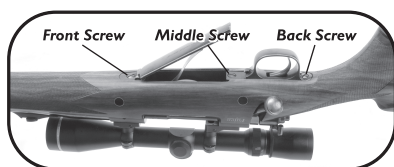
# THE FAT Wrench<sup>TM</sup>

## FIREARM ACCURIZING TORQUE WRENCH

The F.A.T.Wrench makes a perfect compliment to the Wheeler Engineering, 89pc. Professional Gunsmithing Screwdriver Set.



Together, they can ensure accurate tightening of every screw on any gun in your collection!



## Recommended Torque Settings

Torque specifications for firearms are like favorite calibers – ask ten people what they think, and you’ll get ten different answers. We called every manufacturer of rifles and scope mounting accessories to get their input, and then tested those inputs on our own rifles and the rifles of our willing friends. Our recommendations for torque are listed below.

- > Base screws 30 inch-lbs.
- > Ring screws – aluminum rings 10-15 inch-lbs.
- > Windage screws 30-40 inch-lbs.
- > Ring screws – steel rings 15-20 inch-lbs.\*

*Note care should be taken with scope rings that have screws with very little engagement. If the screw has less than six threads of engagement, limit torque to 15 inch-lbs, regardless of construction material. It is always better to start with a low number and increase the tightness until you’ve reached a point where you feel comfortable. As a guideline, the inexpensive Allen wrenches that you receive with most scope ring sets bend somewhere between 15 and 20 inch-lbs.*

*\*Higher torque can be applied, but it exceeds the design strength of small Torx and Allen bits and can destroy a bit. Bits are considered “use” items and are not warranted against bending or breakage.*

## Rifle Guard Screw Torque Recommendations

- > Wood, fiberglass or synthetic stock without bedding pillars – 40 inch-lbs.
- > Wood, fiberglass or synthetic stock with bedding pillars – up to 65 inch-lbs.
- > Hard-use service-type rifles in synthetic stocks with pillars – up to 65 inch-lbs.
- > Current specifications for law enforcement & military rifles are 65 inch-lbs. on each of the guard screws.

*\*Note that the middle screw in a guard that has three screws should only be slightly tightened. Please see the photo to the left so you can better understand this instruction.*