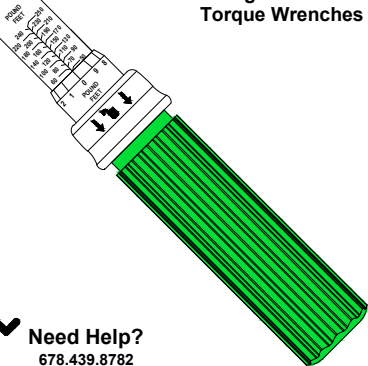




OPERATING INSTRUCTIONS

Micrometer Adjusting
Magnetic Lock
Torque Wrenches

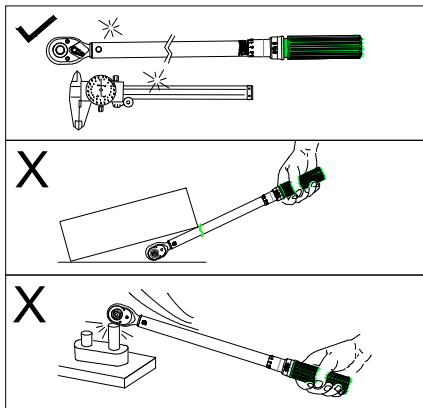


Need Help?

678.439.8782

support@etork.com

READ BEFORE YOU USE

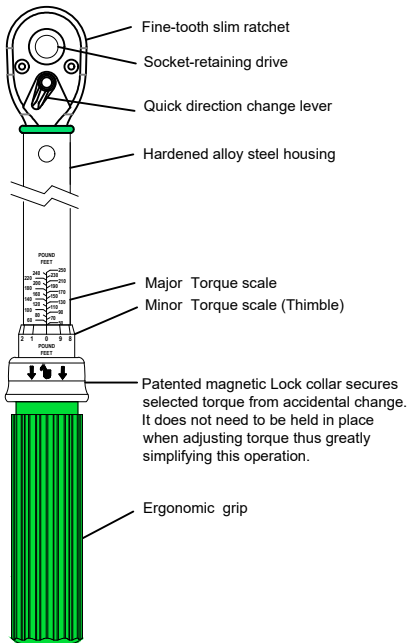


1. This torque wrench is a precision instrument intended to be used only to tighten screws, bolts and nuts to a desired torque.
2. Do not use it as a "nut breaker", pry bar, hammer, or in lieu of a regular ratchet wrench.
3. Do not apply torque in excess of the maximum capacity of the wrench. Apply load on the grip only, and do not use any handle extension bars (a piece of pipe put over the grip).

4. Make sure that you adjust the wrench to the exact torque units your specifications call for, or you will severely under-torque or over-torque, causing damage to the equipment you are working on.
5. Do not disassemble the wrench for any reason. Highly stressed internal components may cause severe injury when released in an unintended manner.
6. Pound foot (Lb.ft) is not the same as Pound Inch (Lb.in), is not the same as Newton meter (N.m), and you may seriously damage your equipment or injure yourself if you confuse these three torque units and use them interchangeably.
7. This wrench should be re-calibrated periodically. The calibration of the wrench should be checked at least every 5 years, after any abnormal handling or overloading, after prolonged storage at over 120 degrees, or below zero degrees, or after 5,000 uses.

MODE OF OPERATION

This torque wrench indicates when the preset torque has been reached by releasing for a few degrees of free travel, which is usually accompanied by an audible "click" signal.

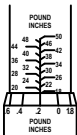


SETTING TORQUE

1. Pull the lock collar gently toward the grip. Unlike other brands, it will stay in this position on its own.
2. Turn the grip in the clockwise direction to increase the torque, and in the counterclockwise to decrease it. Please set torque going up the scale. If you exceed desired torque, please adjust torque to one revolution below the desired torque, then adjust it up again.
3. The set torque is the sum of reading of the major scale and the minor (thimble) scale. See examples below.
4. Push the lock collar away from the the grip. You may need to turn the grip slightly for the grip to securely lock in.
5. Minor scale (thimble) readings must not be used when using Newton meter scale. For better accuracy, please convert Newton meters to Pound feet or Pound Inches and use these instead.

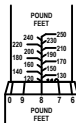
EXAMPLES OF SETTINGS

**50 Lb.in
wrench**



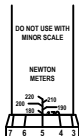
18.2 Lb.in

**250 Lb.ft
wrench**



118 Lb.ft

**160 Lb.ft
wrench**



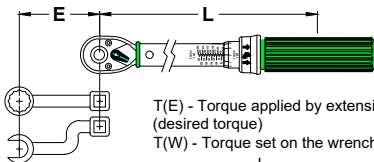
About 176 Nm*

*Accuracy in Newton Meters is limited to the scale resolution and one's visual acuity, and the minor scale (thimble) **must not** be used for Newton Meters. For best results, please convert your N.m values to Lb.ft or Lb.in values and set your wrench accordingly.

Divide N.m by 1.356 to get Lb.ft and by .113 to get Lb.in.

USE OF EXTENSIONS

Attachments and non-standard heads will cause the applied torque to be different from the set torque. Consequently, when using them, the set torque must be adjusted in accordance with the formula shown below.



$T(E)$ - Torque applied by extension
(desired torque)

$T(W)$ - Torque set on the wrench

$$T(W) = T(E) \frac{L}{L+E}$$

NOTE: L value changes with $T(W)$, please measure!

APPLYING TORQUE

1. Insert an appropriate socket or drive attachment onto the square drive of the ratchet and onto the fastener you want to tighten.
2. Apply hand pressure to the grip, and **ONLY TO THE GRIP**. You may support the wrench at the ratchet head with the other hand to steady it, especially when using long socket extensions, without appreciably affecting the accuracy of the wrench.
3. If, due to the required effort, you need to use both hands, put the other hand on the top of the first hand, never on any other part of the wrench.
4. Apply slow and steady pull or push until the wrench momentarily releases, with or without a distinct "click" sound. Release the pressure right at this point. **DO NOT OVERTORQUE!**

SAFETY WARNING

Overtorqued or defective fasteners or sockets, as well as the wrench itself, may suddenly break causing you to lose balance, fall, or suffer other trauma. Be sure that you have firm footing, are properly balanced, and if necessary are using appropriate harness, back support, or other safety device.

MAINTENANCE

1. When not in use, adjust the wrench to its lowest reading and store it in a dry and cool place.
2. With the exception of the ratchet mechanism, do not lubricate the wrench. The ratchet mechanism may be lubricated as needed with a few drops of light machine oil.
3. Do not use acetone or other solvents to clean the wrench, use window cleaner or denatured alcohol applied with a clean cloth instead.
4. With the exception of the ratchet mechanism, there are no user-serviceable parts. Do not disassemble the torque wrench for any reason. When service is needed, send the wrench to the nearest factory-authorized service center.

CERTIFICATION

This torque wrench is certified to have been calibrated prior to shipment to the accuracy of +/- 4% in the clockwise direction.

OWNER'S INFORMATION

Date Purchased: _____ -

Place Purchased: _____

Serial Number: _____

NOTES and SERVICE RECORD: