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› [etoolab TW50FT 3/8-Inch Drive Click Torque Wrench Instruction Manual](#)

etoolab TW50FT

# etoolab TW50FT 3/8-Inch Drive Click Torque Wrench Instruction Manual

Model: TW50FT | Range: 5-50 ft-lb / 5-69.4 N·m

## 1. INTRODUCTION

This manual provides essential information for the safe and effective use, setup, operation, and maintenance of your etoolab TW50FT 3/8-Inch Drive Click Torque Wrench. Designed for precision, this tool ensures accurate torque application for various fastening tasks in automotive, motorcycle, and bicycle repair. Please read these instructions thoroughly before first use and retain for future reference.

## 2. PRODUCT FEATURES

- **Military-Grade Steel Construction:** Manufactured from durable military-grade steel with professional rust protection for enhanced strength, wear resistance, and longevity.
- **High Precision:** Meets a precision standard of  $\pm 3\%$  accuracy, accompanied by a traceable serial calibration certificate.
- **Dual-Scale Design:** Features laser-engraved scales in both Foot-Pounds (ft-lb) and Newton-meters (N·m) for clear and convenient reading without conversion.
- **Audible Click Mechanism:** Produces a distinct 'click' sound (45-80dB) when the preset torque value is reached, indicating when to stop applying force.
- **User-Friendly Design:** Equipped with a 72-tooth dual-directional ratchet head for clockwise and counterclockwise operation, an adjustable locking ring for easy torque setting, and a quick-release button for rapid socket changes.



Image 2.1: etoolab TW50FT Torque Wrench and its protective case.



Image 2.2: Detail of the laser-etched scale and military-grade steel construction, highlighting durability.

### 3. COMPONENTS OVERVIEW

Familiarize yourself with the main parts of your torque wrench:

- **Ratchet Head:** The drive mechanism for sockets, featuring a quick-release button and reversible direction switch.

- **Main Scale:** Displays primary torque values (e.g., 5 ft-lb increments).
- **Micrometer Scale (Additional Scale):** Provides finer torque adjustments.
- **Locking Ring:** Used to secure the desired torque setting.
- **Handle:** Provides grip for applying torque.



Image 3.1: Key components and dimensions of the etoolab TW50FT Torque Wrench.

## 4. SETUP

Before using your torque wrench, ensure it is ready for accurate operation.

1. **Unpacking and Inspection:** Carefully remove the torque wrench from its packaging. Inspect the tool for any signs of damage. Ensure all included components, such as the user manual and calibration certificate, are present.
2. **Initial Calibration Check:** Your torque wrench comes with a precision report certificate, confirming its accuracy at the time of manufacture. Keep this certificate for your records.

## 5. OPERATING INSTRUCTIONS

## 5.1 Setting the Torque Value

To set the desired torque, follow these steps:

1. **Unlock:** Pull down the locking ring located at the base of the handle to unlock the adjustment mechanism.
2. **Adjust:** Rotate the handle to align the desired torque value on the main scale with the zero mark on the micrometer scale. For finer adjustments, rotate the handle further to align the specific increment on the micrometer scale with the main scale line.
3. **Lock:** Push the locking ring back up to secure the set torque value. Ensure it is fully engaged to prevent accidental changes during use.



Image 5.1: Visual guide for setting the torque value on the wrench.

## 5.2 Reading the Scale

The etoolab TW50FT features a dual-scale design for both N-m and lbf-ft. To read the total torque value, combine the value from the main scale with the value from the micrometer (additional) scale.

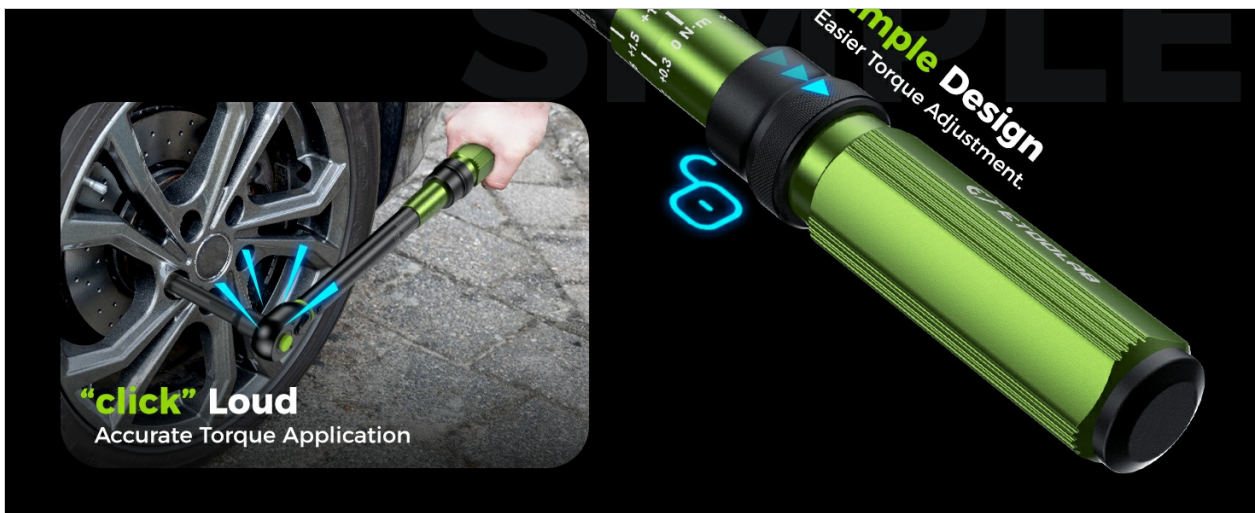


Image 5.2: Explanation of how to read the dual torque scales (N-m and lbf-ft).

## 5.3 Applying Torque

Once the torque value is set:

1. Select the appropriate socket and attach it to the 3/8-inch drive head. Use the quick-release button for easy attachment and removal.

2. Place the socket onto the fastener.
3. Apply smooth, steady force to the handle in the desired direction (clockwise for tightening, counterclockwise for loosening if using the reversible function).
4. Continue applying force until you hear and feel a distinct 'click'. This indicates that the preset torque has been reached. **Stop immediately** to avoid over-tightening.



Image 5.3: The audible 'click' mechanism signals when the target torque is achieved.

#### 5.4 Direction of Use

The 72-tooth ratchet head is reversible. Use the switch on the ratchet head to select either clockwise (for tightening) or counterclockwise (for loosening) operation. For accurate torque application, always use the wrench in the tightening (clockwise) direction.



Image 5.4: The reversible ratchet head and quick-release button enhance usability.

## 6. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your torque wrench.

- **Cleaning:** After each use, wipe the wrench clean with a dry, soft cloth. Do not use solvents or harsh chemicals, as these can damage the finish and scale markings.
- **Storage:** Store the torque wrench in its protective case in a dry, clean environment. Always set the torque wrench to its lowest setting (but not below the minimum) before storage to relieve tension on the internal spring mechanism.
- **Recalibration:** It is recommended to have your torque wrench recalibrated periodically, especially after approximately 5,000 cycles or at least once every 12 months, whichever comes first, to maintain optimal accuracy.

# Durable & Rust-Resistant

Enhanced professional detailing for extended lifespan



Image 6.1: The multi-layered construction provides durability and rust resistance.

## 7. TROUBLESHOOTING

If you encounter issues with your torque wrench, consider the following:

- **No Audible Click:** Ensure the torque setting is above the minimum range. Apply force smoothly and steadily; a rapid jerk may prevent the click from being felt or heard. If the issue persists, the wrench may require recalibration or service.
- **Inaccurate Readings:** Verify the locking ring is fully engaged after setting the torque. Ensure the wrench is clean and free from debris. If accuracy is still a concern, professional recalibration is recommended.
- **Stuck Adjustment:** If the adjustment mechanism feels stiff or stuck, ensure the locking ring is fully disengaged. Do not force the adjustment; apply a small amount of light machine oil to the adjustment mechanism if necessary, then wipe clean.

## 8. SPECIFICATIONS

Feature	Specification
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<b>Feature</b>	<b>Specification</b>
Model Number	TW50FT
Drive Size	3/8 Inch
Torque Range	5-50 ft-lb (Foot Pounds) / 5-69.4 N·m (Newton-meters)
Accuracy	±3%
Ratchet Teeth	72 Tooth
Material	Chromium Molybdenum Steel
Finish Type	Powder Coated
Item Length	11.8 Inches (30 cm)
Item Weight	16 Ounces (1 pound)
Operation Mode	Mechanical
Included Components	Torque wrench, User manual, Precision report certificate



Image 8.1: Each wrench includes a certificate verifying its accuracy.

## 9. WARRANTY AND SUPPORT

etoolab is committed to providing high-quality products and customer satisfaction.

- **Warranty:** We provide two years of unconditional quality assurance service from the date of purchase.
- **Customer Support:** If you encounter any product issues or have questions, please contact us through the Amazon Message Center. Our support team aims to provide assistance within 24 hours.