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› ETOOLAB TW230NPro 1/2 Inch Torque Wrench Instruction Manual

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Model: TW230NPro | Brand: ETOOLAB

INTRODUCTION

This manual provides instructions for the safe and effective use of your ETOOLAB 1/2 Inch Torque Wrench, Model TW230NPro. This precision tool is designed for accurate torque application in automotive, motorcycle, and other mechanical tasks, ensuring proper fastener tension and preventing damage. Please read this manual thoroughly before operation and retain it for future reference.

SETUP AND COMPONENTS

The ETOOLAB 1/2 Inch Torque Wrench comes with essential accessories for versatile use. Upon unpacking, ensure you have the main torque wrench, a 6-inch extension rod, and a 1/2 inch to 3/8 inch adapter.



Figure 1: ETOOLAB 1/2 Inch Torque Wrench with included 6-inch extension rod and 1/2 inch to 3/8 inch adapter. These components allow for greater reach and compatibility with various socket sizes.

Included Components:

- 1/2 inch Torque Wrench (Model TW230NPro)
- 150 mm (6 inch) Extension Rod
- 1/2 inch to 3/8 inch Adapter
- Protective Storage Case
- Calibration Certificate

OPERATING INSTRUCTIONS

1. Setting the Torque Value

To set the desired torque value, follow these steps:

1. **Unlock:** Pull down the locking collar located at the base of the handle.
2. **Adjust:** Rotate the handle to align the main scale (e.g., 20, 30, 40 N·m) with the desired value. Then, fine-tune the setting using the micrometer scale on the handle until the exact torque is displayed.

3. **Lock:** Release the locking collar. It should snap back into place, securing your chosen torque setting. Ensure the collar is fully engaged before use.



Figure 2: Visual guide for setting the torque. Step 1: Pull down to unlock. Step 2: Turn the handle to adjust the torque. Step 3: Release to lock the setting.

2. Reading the Torque Scale

The ETOOLAB torque wrench features a clear, dual-scale design for precise readings in both Newton-meters (N·m) and pound-force feet (lbf·ft). The laser-engraved markings ensure high visibility in various lighting conditions.

DUAL-BEREICH-DESIGN

Haupt Skalenwert+Zusätzlicher Skalenwert=Tatsächlicher Skalenwert



Figure 3: Detailed view of the dual-range scale, illustrating how to read both N·m (20-230) and lbf·ft (10-170) values by combining the main scale and micrometer scale readings.

3. Applying Torque

The wrench features a 72-tooth reversible ratchet head, allowing for precise application in both clockwise and counter-clockwise directions. To apply torque:

1. Attach the appropriate socket or adapter to the 1/2 inch drive.
2. Place the socket onto the fastener (nut or bolt).
3. Apply steady, increasing force to the handle. Do not use sudden jerks.
4. When the preset torque value is reached, you will feel a distinct 'click' and hear an audible sound (typically 45-80 dB). Stop applying force immediately after the click to avoid over-tightening and potential damage to the fastener or component.

Lautes „Klick“-Geräusch.

45–80 dB deutliches „Klick“, um sicherzustellen, dass die Schrauben nicht beschädigt werden.



Figure 4: The audible 'click' mechanism. When the preset torque is achieved, the wrench produces a clear click sound, indicating that the desired torque has been applied.

4. Torque Value Reference

For quick reference, a QR code is printed on the torque wrench itself and on its storage toolbox. Scanning this QR code will provide access to a comprehensive torque value comparison chart, which can be helpful for various applications.

MAINTENANCE

Cleaning and Storage

After each use, clean the torque wrench with a dry, soft cloth. Do not use solvents or harsh chemicals, as these can damage the finish or internal components. Store the wrench in its protective case in a dry, clean environment, away from extreme temperatures or humidity. For long-term storage, set the torque wrench to its lowest torque setting (e.g., 20 N·m or 10 lbf·ft) to relieve tension on the internal spring, which helps maintain calibration accuracy over time.

The wrench is constructed from military-grade Chromium Molybdenum Steel, treated with five layers of phosphate spray paint for enhanced strength, abrasion resistance, and rust resistance.

Lasercravur & Cerändelter anti-rutsch



Figure 5: Cross-section view illustrating the robust construction of the wrench handle, featuring Chromium Molybdenum Steel with green galvanic and black coatings for durability and rust protection.

Calibration

Your ETOOLAB torque wrench is professionally machine calibrated to an accuracy of $\pm 3\%$ and comes with an individually traceable calibration certificate. For continued precision, it is recommended to have the wrench re-calibrated periodically. The manufacturer suggests re-calibration after 5000 cycles or 12 months, whichever comes first.



Figure 6: Example of the Certificate of Calibration, detailing the model number, serial number, torque range, tolerance, and test data, confirming the wrench's $\pm 3\%$ accuracy.

TROUBLESHOOTING

- **Wrench does not click:**

Ensure the torque setting is above the minimum range (20 N·m / 10 lbf·ft). Apply steady, increasing force; a quick jerk might prevent the click from being felt or heard. If the issue persists, the wrench may require professional inspection or re-calibration.

- **Inaccurate readings:**

Verify the torque setting is correct and the locking collar is fully engaged. Ensure the wrench is clean and free from debris. Avoid dropping or misusing the wrench, as this can affect calibration. Refer to the calibration certificate for accuracy specifications.

- **Difficulty adjusting torque:**

Ensure the locking collar is fully pulled down before attempting to rotate the handle. Clean any debris from the adjustment mechanism. If the mechanism feels stiff, a small amount of light machine oil can be applied to the threads, but avoid over-lubrication.

SPECIFICATIONS

Feature	Specification
Model Number	TW230NPro
Torque Range	20-230 N·m (Newton Meters) / 10-170 lbf·ft (Pound-force feet)
Accuracy	±3%
Ratchet Teeth	72
Drive Size	1/2 inch
Material	Chromium Molybdenum Steel
Item Length	44.5 Centimeters
Item Weight	1.8 Kilograms
Included Components	1/2 inch torque wrench, 150 mm extension rod, 1/2 inch - 3/8 inch adapter
Standards Compliance	ISO 6789-2017 / DIN EN 6789-2017

WARRANTY INFORMATION

No specific warranty information is provided in the product details. For details regarding product warranty, terms, and conditions, please refer to the manufacturer's official website or contact ETOOLAB customer support directly.

SUPPORT

For technical assistance, parts, or service inquiries related to your ETOOLAB 1/2 Inch Torque Wrench, please contact ETOOLAB customer support. Contact information may be available on the product packaging, the included documentation, or the official ETOOLAB website.