

Capri Tools 31002

Capri Tools 31002 1/2-Inch Drive Torque Wrench Instruction Manual

INTRODUCTION

This manual provides essential information for the correct operation and maintenance of your Capri Tools 31002 1/2-Inch Drive Torque Wrench. This professional-grade torque wrench is designed for precise fastening applications, featuring a high-contrast dual-range torque scale from 30-150 ft-lbs, adjustable in 1 ft-lb increments. It is constructed from Chrome Vanadium steel with a matte finish for durability and visibility. A traceable certificate of calibration is included, verifying an accuracy threshold of +/- 4%.

Key Features:

- 1/2-Inch Drive with a torque range of 30-150 ft-lbs
- Adjustable in 1 ft-lb increments for precise settings
- Accuracy of +/- 4% with included calibration certificate
- Constructed of durable Chrome Vanadium steel with a matte finish
- High-contrast scale for easy readability in various lighting conditions
- Unique pulse-stop technology for tactile feedback at torque limit

SETUP AND TORQUE ADJUSTMENT

Before use, ensure the torque wrench is clean and free from debris. To set the desired torque value, follow these steps:

1. **Unlock the Adjustment Mechanism:** Locate the lock/unlock knob at the base of the handle. Rotate it counter-clockwise to unlock the adjustment mechanism.
2. **Adjust Torque Value:** Rotate the base of the torque wrench handle. Rotate counter-clockwise to decrease the torque setting and clockwise to increase it.
3. **Read the Scale:** The torque value is determined by combining the Macro/Vertical scale and the

Micro/Horizontal scale. Align the '0' mark on the Micro/Horizontal scale with the desired major increment on the Macro/Vertical scale. Then, fine-tune by rotating the handle until the desired minor increment on the Micro/Horizontal scale aligns with the vertical line on the main shaft.

4. **Lock the Adjustment Mechanism:** Once the desired torque is set, rotate the lock/unlock knob clockwise to secure the setting. This prevents accidental changes during operation.



Image: Close-up of the torque wrench scale, illustrating the foot-pound and Newton-meter markings for precise torque setting.



Image: Detail of the torque wrench handle, highlighting the knurled lock/unlock knob at the base.

Your browser does not support the video tag.

Video: This video demonstrates how to adjust the torque value on the wrench and illustrates the proper technique for use.

OPERATING INSTRUCTIONS

Proper technique is crucial for accurate torque application and to prevent damage to the fastener or the tool. Follow these guidelines:

1. **Attach Socket:** Securely attach the appropriate 1/2-inch drive socket to the square drive head of the torque wrench.
2. **Position Wrench:** Place the socket onto the fastener (e.g., lug nut). Hold the socket with one hand to keep it stable and aligned.
3. **Apply Pressure:** Apply slow and steady pressure to the handle with your other hand. Maintain a smooth, continuous motion.
4. **Feel the Click:** As tension builds and you approach the set torque, apply less force. The wrench will emit a distinct "click" sound and a slight pulse-stop sensation when the preset torque is reached. Stop applying force immediately upon feeling or hearing this.
5. **Release Pressure:** Once the click is felt, release pressure on the handle. Do not continue to tighten the fastener past the click.



Image: A user applying torque to a lug nut on a car wheel using the Capri Tools torque wrench.

MAINTENANCE

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

- **Storage:** After each use, reset the torque wrench to its lowest setting (30 ft-lbs) before storing it. This relieves tension on the internal spring mechanism, preserving its calibration and accuracy over time.
- **Cleaning:** Wipe the wrench clean with a soft, dry cloth after each use. Do not use solvents or harsh chemicals, as these can damage the finish or internal components.
- **Protection:** Store the torque wrench in its protective carrying case to shield it from dust, moisture, and impacts.



Image: The Capri Tools torque wrench neatly stored within its durable plastic carrying case.

TROUBLESHOOTING AND IMPORTANT NOTES

- **Light Click at Lower Settings:** The unique pulse-stop technology may result in a lighter click sound at lower torque settings. It is important to pay close attention to both the audible click and the tactile pulse-stop sensation.
- **Do Not Over-tighten:** Never continue to apply force past the distinct click or pulse-stop. Over-tightening can damage the fastener, the component, or the torque wrench itself.
- **Do Not Use for Loosening:** This torque wrench is designed for tightening fasteners to a specific torque. Do not use it to loosen fasteners, as this can damage the internal calibration mechanism. Use a standard breaker bar or wrench for loosening.
- **Dropping the Wrench:** If the torque wrench is dropped, its calibration may be affected. It is recommended to have it re-calibrated by a qualified service center.

SPECIFICATIONS

Specification	Value
Model Number	31002
Drive Size	1/2-Inch

Specification	Value
Torque Range	30-150 Foot Pounds (ft-lbs)
Increments	1 ft-lb
Accuracy	+/- 4%
Material	Chrome Vanadium Steel
Finish	Matte Finish
Item Weight	3.8 Pounds
Head Style	Fixed Square

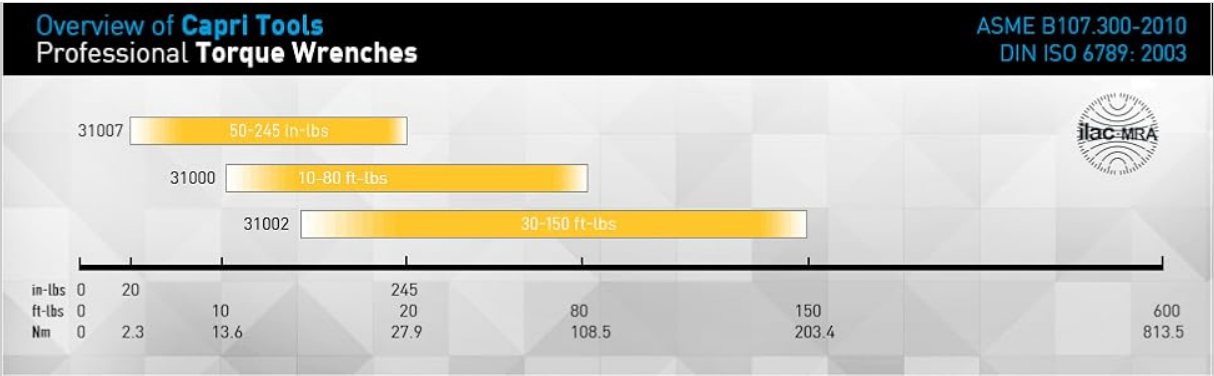


Image: Overview chart of Capri Tools Professional Torque Wrenches, detailing model numbers and their corresponding torque ranges.

WARRANTY INFORMATION

The Capri Tools 31002 Torque Wrench is covered by a **1-year warranty against manufacturer defects**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or further details, please contact Capri Tools customer support.

SUPPORT

For technical assistance, product inquiries, or customer service, please visit the official Capri Tools website or contact their support team directly. Refer to the packaging or the official website for the most current contact information.