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> [Capri Tools 1/4 in. Drive Mini Torque Wrench Set, 30-140 in. lbs. User Manual](#)

## Capri Tools CP31800-140IN

# Capri Tools 1/4 in. Drive Mini Torque Wrench Set

Model: CP31800-140IN

Brand: Capri Tools

## INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your Capri Tools 1/4 in. Drive Mini Torque Wrench Set. This mini torque wrench is specifically designed for working with bolts and fasteners in confined areas where larger torque wrenches may not fit comfortably. It offers precise torque application in the lower torque range, ensuring components are tightened to specification without over-tightening or under-tightening.



Image: The Capri Tools 1/4 inch Drive Mini Torque Wrench Set, including the wrench, various bits, and a protective carrying case.

The set is engineered for accuracy and durability, featuring a light and robust matte black anodized aluminum body. A Certificate of Conformance with an individualized traceable serial number is included, verifying its certified accuracy.

## INCLUDED COMPONENTS

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Your Capri Tools 1/4 in. Drive Mini Torque Wrench Set comes with the following items, organized in a premium custom carry case:

- 1 x Mini Torque Wrench (1/4 in. drive)
- 1 x Hex Socket Adapter
- 1 x Extension Bar
- 5 x Slotted Screwdriver Bits: 3 mm, 4 mm, 5 mm, 5.5 mm, 6 mm
- 4 x Phillips Screwdriver Bits: PH0, PH1, PH2, PH3
- 6 x Hex Screwdriver Bits: 3 mm, 4 mm, 5 mm, 6 mm, 8 mm, 10 mm
- 4 x Star Screwdriver Bits: T10, R15, T25, T30
- 1 x Premium Custom Carry Case

## SETUP

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Before first use, ensure all components are present and in good condition. The torque wrench is pre-calibrated and ready for use. No assembly of the main wrench body is required.

1. **Select the Appropriate Bit:** Choose the correct screwdriver bit or hex socket adapter for your application from the included set.
2. **Attach the Bit/Adapter:** Insert the selected bit or adapter firmly into the 1/4 inch drive head of the torque wrench. Ensure it is securely seated. The wrench features a quick-release button for easy bit removal.
3. **Consider the Extension Bar:** If access to the fastener is restricted, attach the extension bar between the wrench head and the bit/adapter.

## OPERATING INSTRUCTIONS

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The Capri Tools Mini Torque Wrench provides precise torque control for delicate applications.



## Essential Precision

Precise torque range with  $\pm 4\%$  clockwise and counter-clockwise accuracy, indispensable in protecting components from under and over-tightening.

**30-140 in-lbs.**

Torque Range

**1 in-lb.**

Increments

**$\pm 4\%$**

CW/CCW Accuracy

Image: A close-up view of the torque wrench's scale, indicating its 30-140 in-lb torque range and 1 in-lb increments.

### Setting the Torque Value

The wrench has a torque range of 30-140 in. lbs. and adjusts in 1 in. lb. increments.

- 1. Unlock the Adjustment Ring:** Locate the locking mechanism, typically a knurled ring or collar near the handle. Rotate it to unlock the torque setting.
- 2. Adjust the Torque:** Rotate the handle or adjustment ring to set the desired torque value. Align the desired inch-pound value on the main scale with the zero mark on the micrometer scale. Then, rotate the micrometer scale until the desired increment aligns with the main scale line.
- 3. Lock the Adjustment Ring:** Once the desired torque is set, rotate the locking mechanism back to secure the setting. This prevents accidental changes during use.

## Applying Torque

The wrench provides  $\pm 4\%$  accuracy in both clockwise (CW) and counter-clockwise (CCW) directions.

# Exceptional Accuracy Both Directions

$\pm 4\%$  calibrated accuracy in both clockwise and counter-clockwise directions.  
Switch ratcheting directions with a simple turn of the crown.



Image: Illustration demonstrating the torque wrench's ability to accurately measure torque in both clockwise and counter-clockwise directions.

1. **Position the Wrench:** Place the bit or adapter onto the fastener, ensuring a firm and straight engagement.
2. **Apply Steady Pressure:** Apply slow, steady pressure to the handle in the desired direction (clockwise for tightening, counter-clockwise for loosening if measuring break-away torque). Do not use sudden jerking motions.
3. **Listen for the Click:** Continue applying pressure until you hear and feel a distinct "click." This indicates that the preset torque value has been reached.
4. **Stop Immediately:** Once the click is felt/heard, stop applying pressure immediately. Further tightening will result in over-torquing the fastener.

The wrench is designed to be light and durable, weighing approximately 0.45 lbs, making it comfortable for extended use and precise applications.

# Light & Durable

Light and durable matte black anodized aluminum body weighs just 0.45 lbs.



Image: A hand demonstrating the compact and lightweight design of the Capri Tools mini torque wrench, highlighting its ease of handling.

## MAINTENANCE AND CARE

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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 or internal components.
- **Storage:** Store the torque wrench in its original premium custom carry case to protect it from dust, moisture, and impact. Always set the torque wrench to its lowest setting (30 in. lbs.) before storing to relieve tension on the internal spring mechanism, which helps maintain calibration accuracy over time.
- **Calibration:** Your torque wrench is certified with  $\pm 4\%$  CW/CCW accuracy and includes a Certificate of Conformance with an individualized traceable serial number. For continued accuracy, periodic re-calibration by a qualified service center is recommended, especially after heavy use or if accuracy is suspected to be compromised.

# Certified Accuracy

Tested and calibrated in accordance with ASME B107:300 & ISO 6879 standards.  
A calibration Certificate of Conformance is included.



Image: The Capri Tools torque wrench displayed alongside ASME B107.300 and ISO 6879 certification logos, indicating its adherence to industry standards for accuracy.

## TROUBLESHOOTING

If you encounter issues with your torque wrench, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Wrench does not click at set torque.	Torque setting too low for application; improper grip; worn mechanism.	Ensure correct torque value is set. Apply steady, smooth pressure. If problem persists, consider re-calibration or professional inspection.
Difficulty adjusting torque setting.	Adjustment ring is locked; debris in mechanism; high torque setting.	Ensure the adjustment ring is unlocked. Clean the wrench. Higher torque settings may require more effort to adjust.
Bit/adaptor falls out of drive head.	Bit not fully seated; quick-release button engaged.	Ensure bit is pushed in firmly until it locks. Avoid pressing the quick-release button during use.

## SPECIFICATIONS

Key technical specifications for the Capri Tools 1/4 in. Drive Mini Torque Wrench Set:

Feature	Detail
Model Number	CP31800-140IN
Drive Size	1/4 inch

Feature	Detail
Torque Range	30-140 in. lbs.
Torque Increments	1 in. lb.
Accuracy	±4% Clockwise (CW) / Counter-Clockwise (CCW)
Material	Aluminum
Color	Black
Item Length	6.81 Inches
Item Weight	8 ounces (0.5 lbs)
Operation Mode	Mechanical
UPC	886352318013
Batteries Required	No

## WARRANTY AND SUPPORT

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Capri Tools products are manufactured to high-quality standards. For specific warranty information regarding your 1/4 in. Drive Mini Torque Wrench Set, please refer to the documentation included with your purchase or visit the official Capri Tools website. For technical support, service, or inquiries about replacement parts, please contact Capri Tools customer service directly. You can find more information and contact details by visiting the [Capri Tools Store on Amazon](#).