

Capri Tools CP31000

Capri Tools 31000 10-80 Foot Pound Torque Wrench, 3/8-Inch Drive User Manual

Model: CP31000

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1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, setup, operation, and maintenance of your Capri Tools 31000 10-80 Foot Pound Torque Wrench. Please read this manual thoroughly before using the tool and retain it for future reference.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the tool or workpiece.

- Wear appropriate personal protective equipment, such as safety glasses.
- Ensure the torque wrench is clean and in good working condition before each use.
- Do not use the torque wrench as a standard ratchet or for breaking loose fasteners. It is designed for precise torque application only.
- Avoid exceeding the maximum torque capacity of the wrench (80 ft-lbs).
- After use, always return the torque setting to the lowest value (10 ft-lbs) to relieve tension on the internal spring, preserving calibration accuracy.
- Keep the torque wrench away from excessive heat, moisture, and corrosive environments.
- Store the wrench in its protective case when not in use.

3. PRODUCT OVERVIEW

The Capri Tools 31000 torque wrench is a precision instrument designed for accurate torque application. It features a 3/8-inch drive and a torque range of 10-80 foot-pounds.



Figure 3.1: Overall view of the Capri Tools 31000 Torque Wrench. This image displays the full length of the wrench, highlighting its chrome vanadium construction and matte finish.

Key components include:

- **Drive Head:** 3/8-inch square drive for attaching sockets.
- **Main Scale:** Displays major torque settings in foot-pounds.
- **Micrometer Scale:** Allows for fine adjustments in 0.5 ft-lb increments.
- **Adjustment Handle:** Used to rotate and set the desired torque value.
- **Lock/Unlock Knob:** Secures the torque setting to prevent accidental changes.



Figure 3.2: Close-up view of the 3/8-inch drive head. This image shows the square drive and the ratchet mechanism.

4. SETUP

Before first use, ensure the wrench is clean and free from any packaging materials. No assembly is required for this tool.

1. **Inspect the Wrench:** Check for any visible damage or defects. Do not use if damaged.
2. **Select Appropriate Socket:** Choose the correct size and type of socket for your fastener. Attach it firmly to the 3/8-inch drive head.

5. OPERATING INSTRUCTIONS

5.1 Setting the Torque Value

1. **Unlock the Handle:** Rotate the lock/unlock knob at the end of the handle counter-clockwise to unlock it.



Figure 5.1: Close-up of the lock/unlock knob at the base of the handle. This knob secures the torque setting.

2. **Adjust Main Scale:** Rotate the handle to align the top edge of the micrometer scale with the desired major torque value on the main scale (e.g., 50 ft-lbs).
3. **Adjust Micrometer Scale:** Continue rotating the handle until the desired fine adjustment value on the micrometer scale aligns with the center line of the main scale. For example, to set 52.5 ft-lbs, set the main scale to 50, then rotate the micrometer scale until the 2.5 mark aligns with the center line. The wrench adjusts in 0.5 ft-lb increments.



Figure 5.2: Detailed view of the foot-pound and Newton meter scales. This image illustrates how to read and set the torque values using both the main and micrometer scales.

4. **Lock the Handle:** Rotate the lock/unlock knob clockwise to secure the set torque value.

5.2 Applying Torque

1. Attach the socket with the torque wrench to the fastener.
2. Apply steady, increasing pressure to the handle. Do not jerk or apply sudden force.
3. Continue applying pressure until you feel and hear a distinct "click" or "pulse-stop" from the wrench. This indicates that the preset torque value has been reached.
4. Stop applying force immediately after the click. Further tightening will over-torque the fastener.
5. Remove the wrench from the fastener.

Important: The accuracy threshold of this wrench is tested and validated as +/- 4%.

6. MAINTENANCE

6.1 Cleaning

Wipe the torque 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.

6.2 Storage

After each use, always reset the torque wrench to its lowest setting (10 ft-lbs) to relieve tension on the internal spring. Store the

wrench in its original protective case in a dry, clean environment, away from extreme temperatures and direct sunlight.



Figure 6.1: The Capri Tools 31000 Torque Wrench stored in its protective plastic case. Proper storage helps maintain the tool's accuracy and longevity.

6.3 Calibration

Torque wrenches are precision instruments that require periodic calibration to maintain accuracy. It is recommended to have your torque wrench calibrated annually or after any significant impact or misuse by a qualified calibration service.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Wrench does not click or "pulse-stop"	Torque setting too low for application. Fastener already at or above set torque. Wrench is damaged or out of calibration.	Verify required torque for fastener. Ensure fastener is loose before applying torque. Cease use and have the wrench inspected/calibrated.
Inaccurate torque readings	Wrench out of calibration. Improper technique (e.g., jerking, not applying steady force). Torque setting not locked.	Have the wrench calibrated. Review operating instructions for proper technique. Ensure lock/unlock knob is fully clockwise.
Difficulty adjusting torque setting	Lock/unlock knob is engaged. Dirt or debris in mechanism.	Rotate lock/unlock knob counter-clockwise to unlock. Clean the wrench thoroughly.

8. SPECIFICATIONS

Model Number	CP31000
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Drive Size	3/8 inch
Torque Range	10 - 80 ft-lbs (13.6 - 108.5 Nm)
Increments	0.5 ft-lb
Accuracy	+/- 4%
Material	Chrome Vanadium Steel
Finish	Matte
Length	14.5 inches (36.83 cm)
Weight	1.2 Kilograms

9. WARRANTY & SUPPORT

For warranty information or technical support, please contact Capri Tools directly through their official website or customer service channels. Keep your purchase receipt as proof of purchase.

Capri Tools Contact Information:

- **Website:** [www.capritools.com](#) (Example link, actual link may vary)
- Refer to product packaging or the official Capri Tools website for the most current contact details.

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