CDI TORQUE PRODUCTS 2502MRPH

CDI Torque 2502MRPH 3/8-Inch Drive Adjustable Micrometer Torque Wrench Instruction Manual

Model: 2502MRPH | Brand: CDI TORQUE PRODUCTS

1. Product Overview

The CDI Torque 2502MRPH is a 3/8-inch drive adjustable micrometer torque wrench designed for precise torque application. This click-style wrench features a dual scale for both English (inch-pounds) and Newton Meter (Nm) measurements, ensuring versatility for various tasks. It is engineered for accuracy and ease of use, incorporating a positive lock mechanism and clear, laser-marked scales.

This tool is calibrated for dual direction use and meets or exceeds ASME and ISO 6789 standards, with an accuracy of ± 4% CW (clockwise) and ± 6% CCW (counter-clockwise) of the indicated value, from 20% to 100% of full scale. Each wrench is individually serialized and includes a certificate of calibration traceable to N.I.S.T.



Image 1.1: The CDI Torque 2502MRPH 3/8-Inch Drive Adjustable Micrometer Torque Wrench.

2. Setup and Initial Inspection

1. **Unboxing:** Carefully remove the torque wrench from its blow-molded storage case. Inspect the wrench for any signs of damage that may have occurred during shipping.
2. **Familiarization:** Locate the main scale (for major torque values) and the micrometer scale (for minor torque values) on the wrench handle. Identify the positive lock ring at the base of the handle.
3. **Certificate of Calibration:** Review the included certificate of calibration, which confirms the wrench's accuracy and traceability to N.I.S.T.

3. Operating Instructions

Follow these steps for accurate torque application:

1. **Setting the Torque Value:**
    - Pull down the spring-loaded lock ring located at the base of the handle.
    - While holding the lock ring down, rotate the handle to adjust the torque setting. The main scale on the shaft indicates major values, and the micrometer scale on the handle indicates minor values.

- Always approach the desired torque setting from a lower value to ensure proper spring tension.
- Once the desired torque is set, release the lock ring. Ensure it snaps back into place to secure the setting.



Image 3.1: Laser-marked scales for easy and accurate torque setting.



Image 3.2: Ergonomic handle and positive lock ring for secure setting.

2. **Attaching a Socket:**
   - Press the quick-release button on the drive head to insert or remove a socket.

- Ensure the socket is fully seated and locked onto the drive.



Image 3.3: Quick release buttons facilitate easy socket attachment and removal.

3. **Applying Torque:**
   - Apply steady, increasing force to the wrench handle in the desired direction (clockwise or counter-clockwise).
   - Continue applying force until a distinct "click" is felt and/or heard. This indicates that the preset torque value has been reached.
   - Immediately stop applying force once the click occurs. Over-torquing can damage fasteners and the wrench.
   - Release the force to allow the wrench mechanism to reset for the next application.

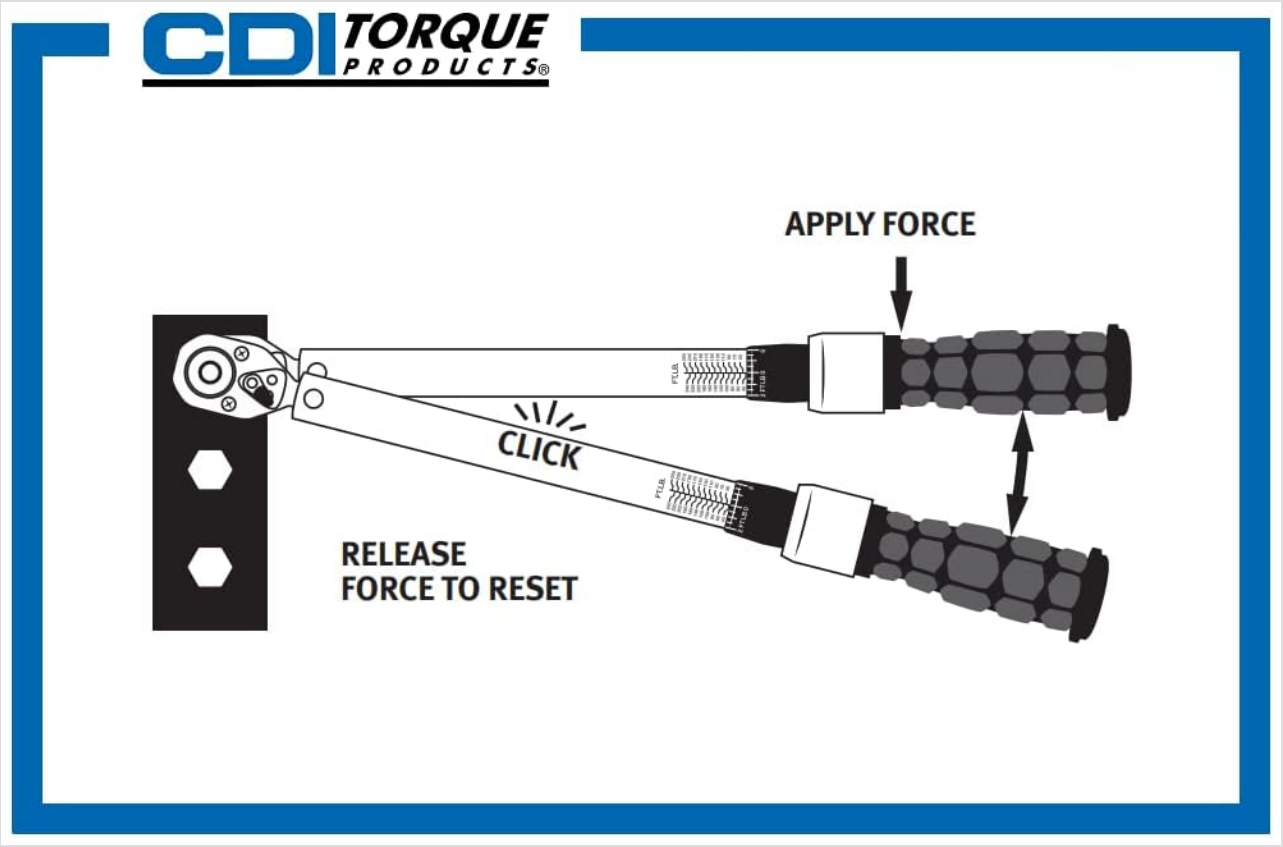


Image 3.4: Illustration of applying force and the 'click' indication.

4. Maintenance and Storage

1. **Resetting After Use:** After each use, always reset the torque wrench to its lowest torque setting. This relieves tension on the internal spring mechanism, preserving its accuracy and extending the life of the tool.
2. **Cleaning:** Wipe the wrench clean with a soft, dry cloth. Avoid using harsh chemicals or solvents that could damage the finish or internal components.
3. **Storage:** Store the torque wrench in its original blow-molded case when not in use. This protects it from dust, moisture, and physical damage. Store in a dry, temperature-controlled environment.
4. **Calibration:** While the wrench comes with a traceable calibration certificate, periodic re-calibration by a qualified service center is recommended to maintain optimal accuracy, especially with frequent professional use.



Image 4.1: The torque wrench should be stored in its protective case.

5. Troubleshooting

- **No Audible/Felt Click:**
  - Ensure the torque setting is correctly engaged by checking the lock ring.
  - Verify that the applied torque is within the wrench's specified range (30-250 in.lbs).
  - Apply force smoothly and steadily. Jerky movements may prevent the click mechanism from engaging properly.
- **Inaccurate Readings:**
  - Confirm the wrench was reset to its lowest setting after previous uses.
  - Ensure the scales are clean and clearly visible for accurate reading.
  - If accuracy is consistently questionable, the wrench may require re-calibration.

For further assistance or issues not covered here, please contact CDI Torque Products customer support.

6. Specifications

Feature	Detail
Model Number	2502MRPH
Drive Size	3/8-Inch
English Torque Range	30-250 in. lbs.
Newton Meter Torque Range	4.0 - 27.7 Nm

Feature	Detail
Accuracy	± 4% CW, ± 6% CCW (from 20% to 100% of full scale)
Overall Length	11.25 inches
Item Weight	1.2 pounds
Material	Alloy Steel
Head Style	Fixed Square
Included Components	Certificate of Calibration, Plastic Case for Storage

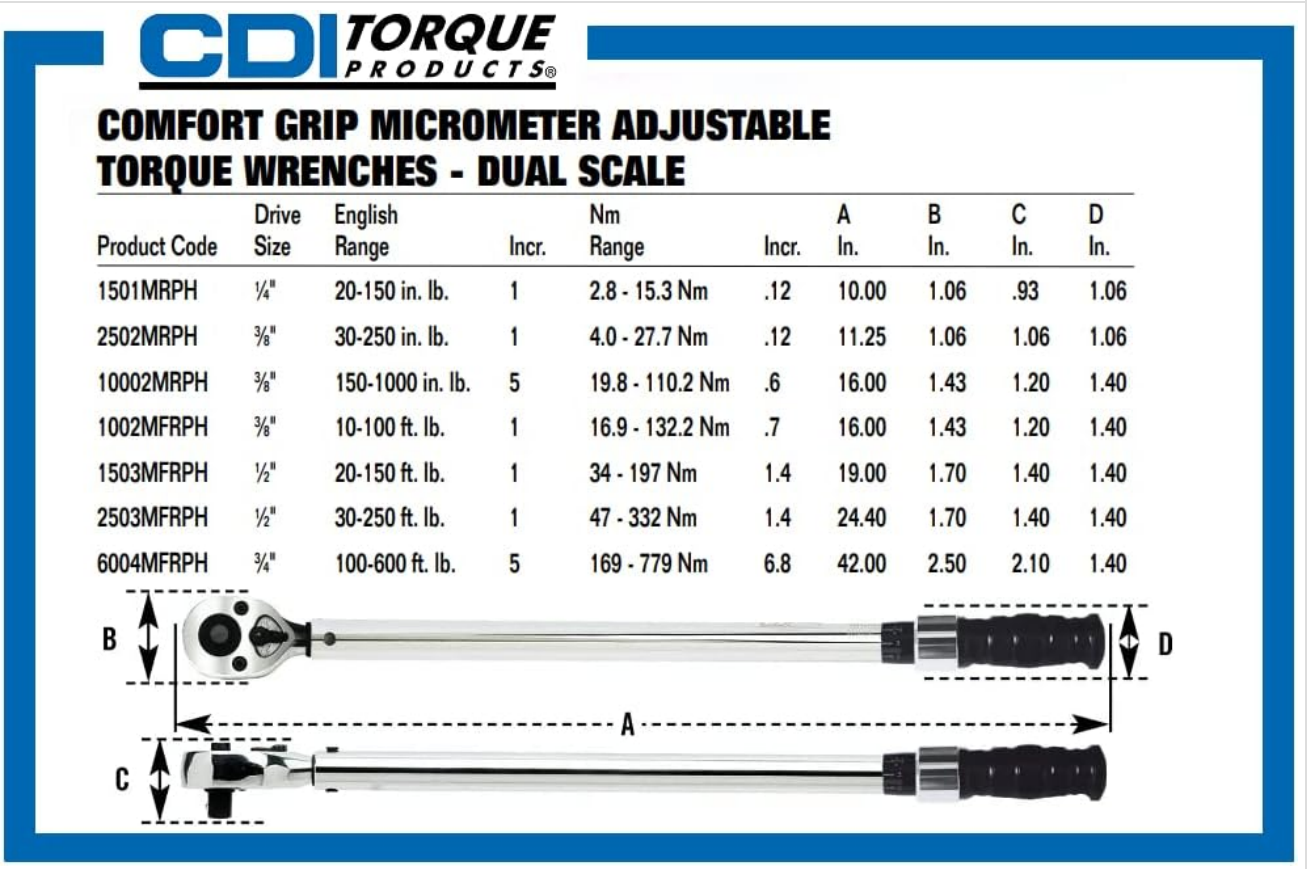


Image 6.1: Detailed specifications and dimensions for various CDI Torque Wrench models, including the 2502MRPH.

7. Warranty and Support

Warranty: Snap-on Industrial Brands warrants that CDI Torque products shall be free from defects in workmanship and materials for the usable life of the product. This limited warranty ensures the quality and durability of your torque wrench.

Customer Support: For warranty claims, technical assistance, or any questions regarding the operation and maintenance of your CDI Torque wrench, please refer to the contact information provided with your product packaging or visit the official CDI Torque Products website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question