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## GEARWRENCH 85060

# GEARWRENCH 1/4" Drive Micrometer Torque Wrench 30-200 in/lbs. - 85060

Brand: GEARWRENCH | Model: 85060

### INTRODUCTION

This manual provides essential information for the safe and effective use of your GEARWRENCH 1/4" Drive Micrometer Torque Wrench. Designed for precision and durability, this tool ensures accurate fastener torque levels for various applications. Proper understanding and adherence to these instructions will maximize the performance and lifespan of your torque wrench.



Figure 1: GEARWRENCH 1/4" Drive Micrometer Torque Wrench

The GEARWRENCH micrometer torque wrenches are engineered for accuracy, providing a  $\pm 3\%$  CW accuracy between 20% and 100% of the wrench's capability. This ensures reliable and consistent torque application.



Figure 2: Torque Accuracy Indication

### SAFETY INFORMATION

Always observe the following safety precautions when using your torque wrench:

- **Wear Eye Protection:** Always wear ANSI-approved safety goggles or glasses when operating any tools.
- **Do Not Exceed Maximum Torque:** Never apply force beyond the specified maximum torque capacity of the wrench (200 in/lbs for this model). Over-torquing can damage the tool or the fastener.
- **Avoid Using as a Breaker Bar:** This torque wrench is a precision instrument. Do not use it to loosen seized fasteners or as a general-purpose breaker bar.
- **Keep Clean and Dry:** Ensure the wrench is clean and free of oil, grease, or debris before and after use to maintain accuracy and prevent slippage.
- **Store Properly:** Store the torque wrench in its protective case and set to the lowest torque setting (but not below the minimum) to relieve spring tension and preserve calibration.
- **Regular Calibration:** For critical applications, have your torque wrench calibrated periodically by a qualified technician.

## COMPONENTS

Familiarize yourself with the main components of your GEARWRENCH Micrometer Torque Wrench:



Figure 3: Key Components of the Torque Wrench

- **Drive Head:** The 1/4" square drive for attaching sockets. Features a thin profile, sealed teardrop head, and a flush reversing lever for easy direction changes.
- **Main Scale:** The primary scale on the wrench body, indicating major torque increments.
- **Micrometer Scale:** The rotating scale on the handle, used for fine torque adjustments.
- **Adjustment Collar:** The pull adjustment collar allows for quick and easy torque setting changes.
- **Handle:** Provides grip and leverage during operation.

## SETUP

To set the desired torque value:

1. **Unlock the Adjustment Collar:** Pull down the adjustment collar located at the base of the handle. This unlocks the micrometer scale.
2. **Set Major Torque Value:** Rotate the handle until the desired major torque value aligns with the edge of the adjustment collar on the main scale.
3. **Set Fine Torque Value:** Continue rotating the handle until the desired fine torque value on the micrometer scale aligns with the center line of the main scale.
4. **Lock the Adjustment Collar:** Release the adjustment collar. It should snap back into place, locking the torque setting. Ensure it is fully engaged before use.

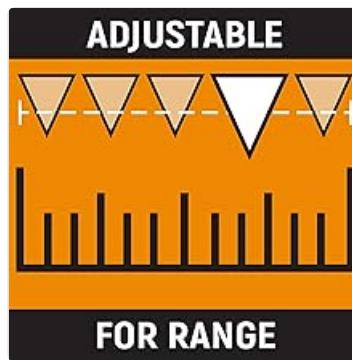


Figure 4: Adjustable Torque Range

## OPERATING INSTRUCTIONS

Follow these steps to correctly apply torque:

1. **Attach Socket:** Select the correct size socket and attach it firmly to the 1/4" drive head.
2. **Position Wrench:** Place the socket onto the fastener. Ensure the wrench is positioned so you can pull it smoothly and steadily.
3. **Apply Torque:** Apply a slow, steady, and continuous pull to the handle. Do not jerk or use sudden movements.
4. **Listen for Click:** Continue pulling until you hear and feel a distinct "click" from the wrench. This indicates that the preset torque value has been reached.
5. **Release Pressure:** Immediately stop applying force once the click is felt.
6. **Reset Wrench:** After each use, return the wrench to its lowest torque setting (but not below the minimum) to relieve spring tension.

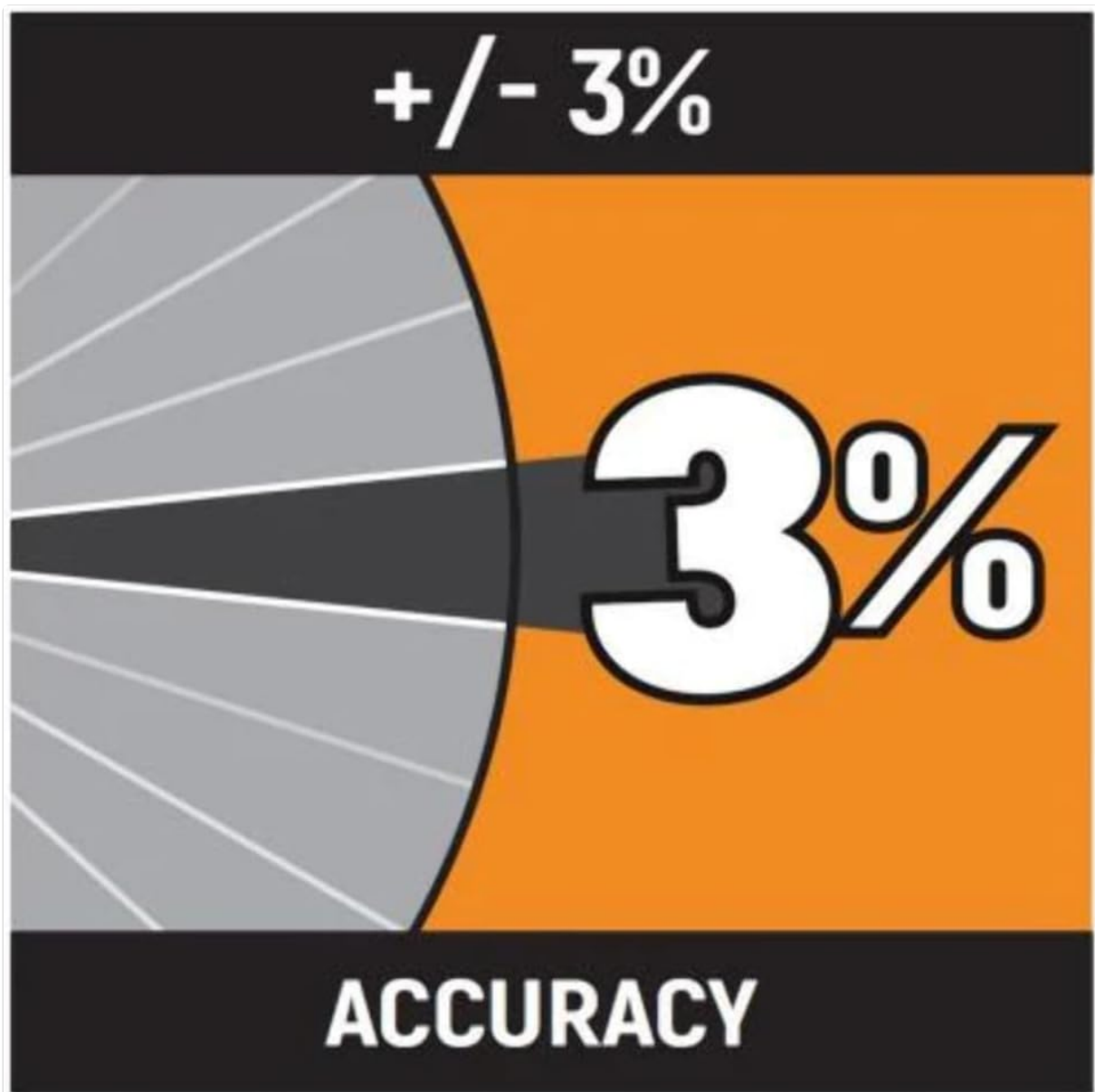


Figure 5: Proper Wrench Handling

## MAINTENANCE

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

- **Cleaning:** Wipe the wrench clean with a soft, dry cloth after each use. Do not use harsh chemicals or solvents that could damage the finish or internal components.
- **Lubrication:** The internal mechanism is factory lubricated and generally does not require user lubrication. Avoid applying lubricants to the drive head or handle.
- **Storage:** Store the torque wrench in its original protective case in a clean, dry environment. Always set the wrench to its lowest torque setting (but not below the minimum) before storage to prevent fatigue of the internal spring.
- **Avoid Dropping:** Dropping the torque wrench can severely affect its calibration and internal mechanisms. Handle with care.

## TROUBLESHOOTING

If you encounter issues with your torque wrench, consider the following:

Problem	Possible Cause	Solution
Wrench does not click	Torque setting too low; Wrench not pulled smoothly; Wrench is damaged.	Increase torque setting; Apply smooth, steady pull; Have wrench calibrated or inspected by a professional.
Inaccurate torque readings	Improper setting; Wrench needs calibration; Damage from dropping or misuse.	Re-check torque setting; Send for professional calibration; Inspect for damage, discontinue use if damaged.
Handle difficult to turn	Debris in mechanism; Wrench not stored at lowest setting.	Clean wrench thoroughly; Ensure proper storage after each use.

If problems persist, contact GEARWRENCH customer support.

## SPECIFICATIONS

Feature	Detail
Brand	GEARWRENCH
Model Number	85060
Drive Size	1/4"
Torque Range	30-200 in/lbs.
Torque Accuracy	+/- 3% CW (between 20% and 100% of wrench capability)
Material	Alloy Steel
Head Style	Flex
Finish Type	Polished
Item Length	12 Inches
Item Weight	1.35 Pounds
Operation Mode	Mechanical
Is Ratcheting	Yes
Included Components	(1) 1/4" Drive Micrometer Torque Wrench 30-200 in/lbs.

## WARRANTY AND SUPPORT

**Warranty:** This GEARWRENCH torque wrench comes with a 90-day calibration warranty and a 1-year parts warranty. This warranty covers defects in materials and workmanship under normal use.

**Support:** For technical assistance, warranty claims, or service, please visit the official GEARWRENCH website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty purposes.

For more information, visit the GEARWRENCH Store on Amazon.

