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› LLAVETOR 1/2-inch Drive Torque Wrench Set, 30-210 Nm Instruction Manual

## LLAVETOR LLAVE01

# LLAVETOR 1/2-inch Drive Torque Wrench Set (Model LLAVE01) Instruction Manual

Brand: LLAVETOR

## INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your LLAVETOR 1/2-inch Drive Torque Wrench Set. Designed for precision and durability, this tool is essential for applications requiring specific torque values, such as automotive, motorcycle, and bicycle maintenance. Please read this manual thoroughly before operating the tool to ensure proper use and to prevent damage or injury.

## PACKAGE CONTENTS

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1x 1/2-inch Drive Torque Wrench (30-210 Nm)
- 5x Sockets (17mm, 19mm, 21mm, 22mm, 24mm)
- 2x Extension Bars (75mm, 125mm)
- 1x Storage Case

# WINDOWS TORQUE WRENCH

**SUPERB ACCURACY  
EASY TO READ**



**lb.ft 25-145**

**N.m 30-210**

Image: The complete LLAVETOR 1/2-inch Drive Torque Wrench Set, including the wrench, multiple sockets, and extension bars, laid out for inspection.

## KEY FEATURES

- **High Precision:** Achieves a high accuracy of  $\pm 3\%$ . The scale is clearly marked and easy to read,

ensuring precise torque application.

- **Durable Construction:** Manufactured from high-strength chrome-molybdenum alloy steel, providing excellent resistance to pressure and oxidation for long-lasting performance.
- **72-Tooth Ratchet Head:** Features a fine 72-tooth ratchet mechanism for smooth operation and precise adjustments in tight spaces.
- **Quick Release Mechanism:** Equipped with a quick-release button for easy and secure installation and removal of sockets, preventing accidental drops.
- **Bidirectional Ratchet Head:** The direction switch on the ratchet head allows for both clockwise and counter-clockwise operation, making it versatile for various fastening and loosening tasks.
- **Audible Click Indicator:** The wrench emits a distinct click sound when the preset torque value is reached, signaling that the desired torque has been applied.

# 72 Tooth Ratchet



## Reversible Ratchet Head



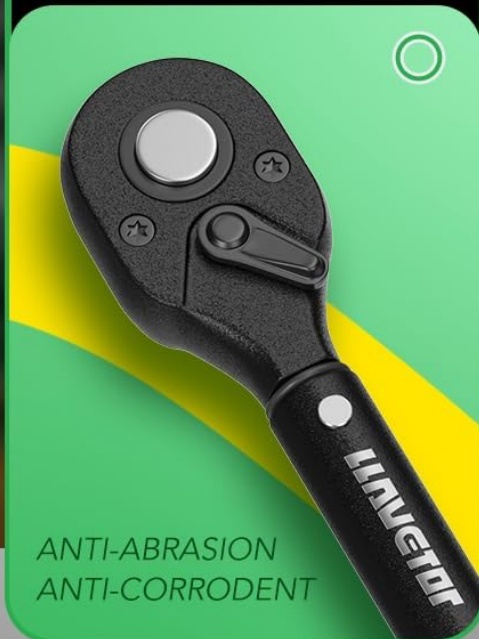
## Click=stop



Image: Detailed view of the torque wrench head, highlighting the 72-tooth ratchet, quick release button, and the reversible switch for directional control. The image also illustrates the 'Click=stop' feature.

# WHY CHOOSE US?

**CHROME VANADIUM  
ALLOY STEEL**



X



X



Image: Visual representation emphasizing the construction material of the torque wrench, Chrome Vanadium Alloy Steel, known for its anti-abrasion and anti-corrodent properties.

## SETUP AND TORQUE ADJUSTMENT

Follow these steps to set the desired torque value on your wrench:

1. **Unlock:** Pull down the locking knob located at the end of the handle. Hold it in the unlocked position.
2. **Adjust Torque:** Rotate the handle to align the desired torque value on the main scale with the corresponding mark on the micrometer scale. The wrench supports a range of 30-210 Nm (or 25-145 lb.ft).
3. **Lock:** Release the locking knob. It will automatically spring back into place, securing the set torque value. Ensure the knob is fully engaged before use.

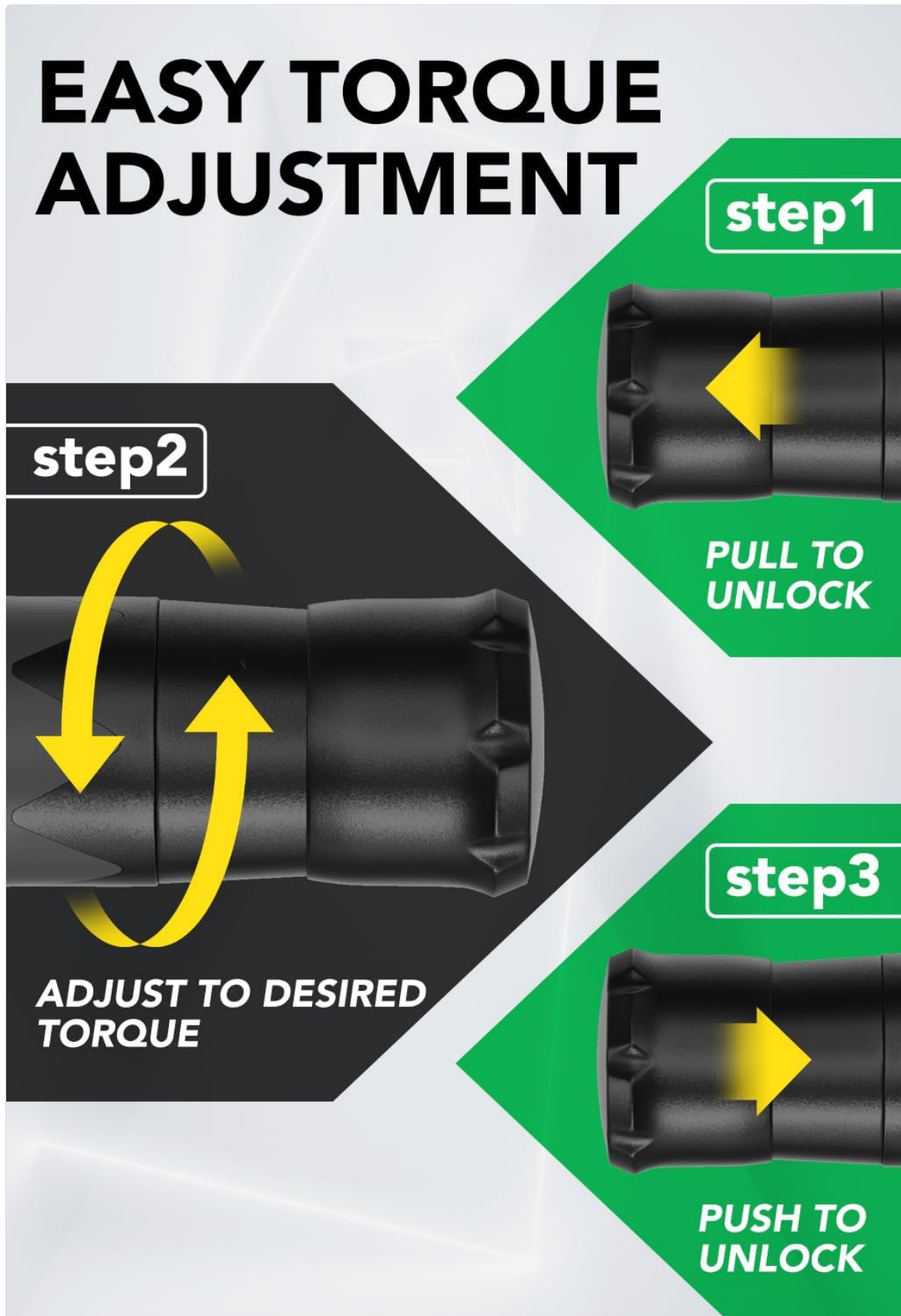


Image: A step-by-step diagram illustrating how to adjust the torque setting on the wrench by pulling to unlock, rotating

the handle to adjust, and pushing to lock the desired value.



Image: A close-up view of the torque wrench's measurement window, displaying both Newton-meter (Nm) and pound-foot (lb.ft) scales for precise and easy reading.

## OPERATING INSTRUCTIONS

Once the torque is set, you can proceed with your task:

1. **Attach Socket:** Select the appropriate socket and attach it firmly to the 1/2-inch drive square on the wrench head. Ensure it is securely locked by the quick-release mechanism.
2. **Select Direction:** Use the switch on the ratchet head to select the desired direction (clockwise for tightening, counter-clockwise for loosening).
3. **Apply Torque:** Place the socket onto the fastener. Apply steady, smooth pressure to the wrench handle. Do not use sudden jerks or excessive force.
4. **Listen for Click:** Continue applying pressure until you hear and feel a distinct "click." This indicates that the preset torque value has been reached. Stop immediately after the click.
5. **Release Pressure:** Remove the wrench from the fastener.

**Important:** Do not continue to apply force after the click, as this can overtighten the fastener and damage the wrench or the component.



Image: A person demonstrating the use of the LLAVETOR torque wrench to tighten lug nuts on a car wheel, illustrating a common application.

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

- **Cleaning:** After each use, wipe the wrench clean with a dry, soft cloth. Avoid using solvents or harsh chemicals that could damage the finish or internal components.
- **Storage:** Always store the torque wrench in its protective case when not in use. Set the torque to the lowest setting (but not below the minimum) before storing to relieve tension on the internal spring mechanism.
- **Avoid Impacts:** Do not drop the wrench or subject it to harsh impacts, as this can affect its calibration and accuracy.
- **Calibration:** Torque wrenches are precision instruments and may require periodic calibration to maintain accuracy. The frequency depends on usage, but annual calibration is generally recommended for professional use.

## TROUBLESHOOTING

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

- **No Click Sound:** Ensure the torque setting is correctly locked. If the wrench is set to a very low torque, the click might be subtle. If the issue persists, the wrench may require calibration or service.
- **Inaccurate Readings:** This is often due to improper use (e.g., applying force too quickly, not stopping at the click) or the wrench being out of calibration. Refer to the operating instructions and consider professional calibration.
- **Difficulty Adjusting Torque:** Ensure the locking knob is fully pulled down before attempting to rotate the handle. If the mechanism feels stiff, a small amount of light machine oil might be applied to the adjustment threads (consult a professional if unsure).

## SPECIFICATIONS

<b>Manufacturer</b>	LLAVETOR.Inc
<b>Model Number</b>	LLAVE01
<b>Drive Size</b>	1/2 inch
<b>Torque Range</b>	30-210 Newton-meters (Nm)
<b>Accuracy</b>	±3%
<b>Ratchet Teeth</b>	72-tooth
<b>Material</b>	Chrome Vanadium Steel
<b>Color</b>	Black
<b>Finish</b>	Powder Coating
<b>Operation Mode</b>	Mechanical
<b>Item Weight</b>	2.24 Kilograms
<b>Package Dimensions</b>	44.4 x 8.2 x 7.7 cm

## WARRANTY AND SUPPORT

For warranty claims, technical assistance, or any questions regarding your LLAVETOR torque wrench, please contact your original retailer or the manufacturer directly. Please retain your purchase receipt as proof of purchase for any warranty-related inquiries.