

## Uharbour UHXM012

# Uharbour Digital Torque Wrench 1/2 Drive (UHXM012) Instruction Manual

Model: UHXM012

## 1. INTRODUCTION

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This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your Uharbour Digital Torque Wrench 1/2 Drive, model UHXM012. Please read this manual thoroughly before using the product to ensure proper function and to prevent damage or injury.

## 2. SAFETY INFORMATION

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**WARNING: Failure to follow these safety instructions may result in injury or damage to the tool or workpiece.**

- Always wear appropriate personal protective equipment, such as safety glasses, when using this tool.
- Ensure the workpiece is securely fastened before applying torque.
- Do not exceed the maximum torque capacity of 147.5 ft-lbs (200 Nm).
- Do not use the torque wrench as a breaker bar.
- Keep the tool clean and dry. Store it in its protective case when not in use.
- Do not attempt to disassemble or modify the torque wrench. Refer all servicing to qualified personnel.
- Keep out of reach of children.

## 3. PACKAGE CONTENTS

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Verify that all items listed below are included in your package:

- Uharbour Digital Torque Wrench (1/2" Drive)
- Certificate of Calibration
- Instruction Manual (this document)

- Storage Case
- Alkaline Batteries (pre-installed or included separately)



Figure 3.1: The Uharbour Digital Torque Wrench and its included accessories, neatly organized within its durable storage case.

## 4. PRODUCT OVERVIEW

The Uharbour Digital Torque Wrench is designed for precise torque applications across various tasks, including automotive, motorcycle, and bicycle maintenance. It features a durable construction and an intuitive digital interface.

## Key Features:

- **Wide Torque Range:** 2.2-147.5 ft-lbs (3-200 Nm).
- **High Accuracy:**  $\pm 2\%$  for reliable measurements.
- **Peak & Track Modes:** For target setting and real-time monitoring.
- **Alerts:** Vibration, buzzer, and LED indicators for target torque.
- **Dual-Direction Ratchet:** Supports both clockwise and counterclockwise operations.
- **Multiple Measurement Units:** N-m, kgf-cm, lb-ft, and lb-in.
- **High-Definition LED Screen:** For clear and easy-to-read measurements.

INSTANT AND ACCURATE READING, NO MORE GUESS WORK,  
TIGHTEN THE NUTS AND SCREWS WITH CONFIDENCE



Figure 4.1: The digital display of the torque wrench, showing current torque value, selected units (N.m, lb.ft, lb.in, kg.cm), and mode indicators (P for Peak, T for Track).



Figure 4.2: A detailed view of the wrench's control panel, highlighting the LCD screen, buzzer, LED indicators, and buttons for unit selection (U), mode (M), and power/clear (C).

## 5. SETUP

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### 5.1 Battery Installation

The Uharbour Digital Torque Wrench requires alkaline batteries for operation. Ensure batteries are installed correctly before first use.

1. Locate the battery compartment cover, typically at the base of the handle.
2. Open the cover and insert the required alkaline batteries, observing the correct polarity (+/-) as indicated inside the compartment.
3. Securely close the battery compartment cover.

**Note:** If the wrench will not be used for an extended period, remove the batteries to prevent leakage and damage.

## 6. OPERATING INSTRUCTIONS

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## 6.1 Power On/Off

- To power on, press the **Power/Clear (C)** button.
- The wrench will automatically power off after a period of inactivity to conserve battery life.

## 6.2 Selecting Measurement Units

The wrench supports four measurement units: N-m, kgf-cm, lb-ft, and lb-in.

- Press the **Unit (U)** button to cycle through the available units until your desired unit is displayed.

## 6.3 Operating Modes

The Uharbour Digital Torque Wrench features two primary operating modes: Peak mode and Track mode.

### THREE READING MODES

One step switch for quick operation



The figure consists of three vertically stacked panels, each showing a different operating mode of the digital torque wrench. Each panel features a close-up of the wrench's LCD display and control buttons. The top panel shows 'Track mode' with a real-time torque reading of 0.00 N.m and a target value of 60.00. The middle panel shows 'Peak mode' with a peak torque reading of 44.27 lb.ft and a target value of 44.27. The bottom panel shows 'Torque memory' with a real-time torque reading of 0.00 N.m and a target value of 60.00. The wrench has several buttons: an up arrow, a P/T button, a U button, a down arrow, an M button, and a C button.

#### Track mode

Displays torque value in real time

Set a target value, triggers sound, light and vibration alert when it's reached.

#### Peak mode

Displays the largest torque applied.

Set a target value, triggers sound, light and vibration alert when it's reached.

#### Torque memory

Memorizes torque value histories for future query.

Figure 6.1: Visual representation of the three reading modes: Track mode for real-time display, Peak mode for maximum torque applied, and Torque Memory for historical data.

### 6.3.1 Track Mode (T)

- In Track mode, the display shows the real-time torque value being applied.
- To select Track mode, press the **Mode (M)** button until 'T' is displayed on the screen.
- This mode is useful for continuous monitoring of torque during tightening.

### 6.3.2 Peak Mode (P)

- In Peak mode, the wrench records and displays the maximum torque value applied during a tightening operation.
- To select Peak mode, press the **Mode (M)** button until 'P' is displayed on the screen.
- To set a target torque value:
  - a. While in Peak mode, press the **Mode (M)** button again to enter target setting.
  - b. Use the **Up (↑)** and **Down (↓)** buttons to adjust the target torque value.
  - c. Press the **Mode (M)** button to confirm the setting.
- When the applied torque approaches the target value, the wrench will provide alerts via vibration, a buzzer, and LED indicators.

### 6.4 Dual-Direction Ratchet

The 1/2" drive reversible ratchet head allows for both clockwise (CW) and counterclockwise (CCW) operation. To change direction, simply flip the lever on the ratchet head.



Figure 6.2: The torque wrench being used to tighten a lug nut, illustrating the dual-direction ratchet mechanism and the quick-release button for sockets.

### 6.5 Quick Release Button

The quick release button on the ratchet head allows for easy and secure attachment and detachment of sockets.

## 7. MAINTENANCE

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- **Cleaning:** Wipe the wrench with a clean, dry cloth after each use. Do not use abrasive cleaners or solvents.
- **Storage:** Store the torque wrench in its protective case in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Dispose of used batteries responsibly.
- **Calibration:** Digital torque wrenches require periodic calibration to maintain accuracy. Refer to the included Certificate of Calibration for details.

## 8. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Wrench does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace batteries with new alkaline batteries.
Inaccurate readings.	Wrench needs calibration; improper usage.	Ensure proper technique. Refer to calibration certificate for recommended service intervals.
Display is dim or flickering.	Low battery power.	Replace batteries.
No alert (vibration, buzzer, LED) at target torque.	Wrench not in Peak mode; alert settings off.	Ensure wrench is in Peak mode and target torque is set. Check if alert functions are enabled (if applicable).

## 9. SPECIFICATIONS

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Feature	Detail
Model Number	UHXM012
Drive Size	1/2 inch
Torque Range	2.2-147.5 ft-lbs (3-200 Nm)
Accuracy	±2%
Measurement Units	N-m, kgf-cm, lb-ft, lb-in
Operating Modes	Peak, Track
Alerts	Vibration, Buzzer, LED
Ratchet Direction	Clockwise and Counterclockwise

Feature	Detail
Material	Alloy Aluminum, Chrome Vanadium Steel, Plastic, Rubber
Power Source	Alkaline Batteries
Item Weight	2.38 kg (approx.)
Package Dimensions	59.18 x 15.75 x 7.37 cm (approx.)

## 10. WARRANTY AND SUPPORT

Your Uharbour Digital Torque Wrench comes with a Certificate of Calibration, ensuring its accuracy at the time of manufacture. For warranty information and support, please refer to the details provided on your Certificate of Calibration or contact Uharbour customer service.

- **Warranty Extension:** The product may be eligible for a warranty extension to two years. Please check the calibration certificate for registration details.
- **Customer Support:** For technical assistance or service inquiries, please contact [customer.service.support@uharbour.net](mailto:customer.service.support@uharbour.net).



**100% calibrated  
1% accuracy  
comes with calibration certificate  
with serial number**

**Uharbour** Certificate of Calibration

**Inspection Certificate**

Model:	1/2	Calibration Instrument:	PB6036
Style:	torquegauge	Serial number:	24090501
Range:	200N.m	Instrument Precision:	0.30%
	Minimum	60%	100%
Target torque:	40	120	200
Measured value1:	39.92	120.47	199.60
Measured value2:	40.02	119.54	200.12
Measured value3:	40.07	120.52	200.96
Measured value4:	40.08	119.97	200.08
Measured value5:	40.05	119.98	199.93

Test Result: The test torque value meets the standard of 1S06789.GB/T 15729and ASME B107.14M

We recommend you to verify this torque wrench after working for 12 months of 5000 times

Checker	WangKai	Date	2024/9/18
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Warranty extension to two years:  
Garantieverlängerung auf zwei Jahre:

Official website: [www.uharbour.net](http://www.uharbour.net)  
Customer service: [support@uharbour.net](mailto:support@uharbour.net)

Figure 10.1: The Uharbour Digital Torque Wrench alongside its Inspection Certificate, which includes calibration data and

warranty information.