

Hairich HR-DG-003

Hairich Digital Torque Wrench 1/2" 11-220N.m User Manual

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective operation, maintenance, and troubleshooting of your Hairich Digital Torque Wrench. Please read this manual thoroughly before using the tool to ensure proper function and to prevent damage or injury. Keep this manual for future reference.



Figure 1: Hairich Digital Torque Wrench

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of injury or damage to the tool:

- Wear appropriate personal protective equipment, such as safety glasses.
- Do not exceed the maximum torque capacity of 220 N.m.
- Ensure the wrench is clean and dry before use.
- Do not use the wrench if it is damaged or malfunctioning.
- Keep the tool away from children.
- Store the wrench in a dry, secure place when not in use.

3. PRODUCT OVERVIEW

The Hairich Digital Torque Wrench is designed for precise torque applications, featuring an LED display, audible and visual alerts, and multiple measurement units.

3.1 Key Features

- **High Precision:** $\pm 2\%$ accuracy for both clockwise and counter-clockwise rotation.
- **Torque Range:** 11-220 N.m (8.1-162.2 ft-lb, 97.3-1947 in-lb, 112.2-2244 kgf-cm, 1.1-22.8 kgf-m).
- **Alerts:** Audible beep and flashing LED indicator at 80% of preset torque and upon reaching target torque.
- **Measurement Units:** Nm, ft-lb, in-lb, kgf-cm, kgf-m.
- **Operating Modes:** Track Mode (real-time display) and Peak Mode (maximum value capture).
- **Memory Function:** Stores up to 500 readings.
- **Ergonomic Design:** Non-slip handle for secure grip.



Figure 2: Wrench dimensions and wear-resistant handle

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the handle.
2. Open the cover and insert the required batteries, ensuring correct polarity.
3. Close the battery compartment cover securely.

4.2 Initial Power On

Press the power button to turn on the wrench. The LED display will illuminate, showing the current settings.

5. OPERATING INSTRUCTIONS

5.1 Unit Selection

Press the 'U' button to cycle through the available measurement units: Nm, ft-lb, in-lb, kgf-cm, and kgf-m. Select the desired unit before setting the torque value.



Figure 3: Displaying multiple torque units

5.2 Setting Target Torque

1. Press the 'M' button to enter the torque setting mode.
2. Use the arrow buttons (up/down) to adjust the target torque value.
3. Press the 'OK' button to confirm the setting.

5.3 Operating Modes

The wrench features two operating modes:

- **Track Mode:** Displays the real-time torque being applied. Ideal for continuous monitoring.

- **Peak Mode:** Captures and displays the maximum torque value reached during an application. Useful for confirming tightening.

Switch between modes using the designated mode button (refer to the display icons).

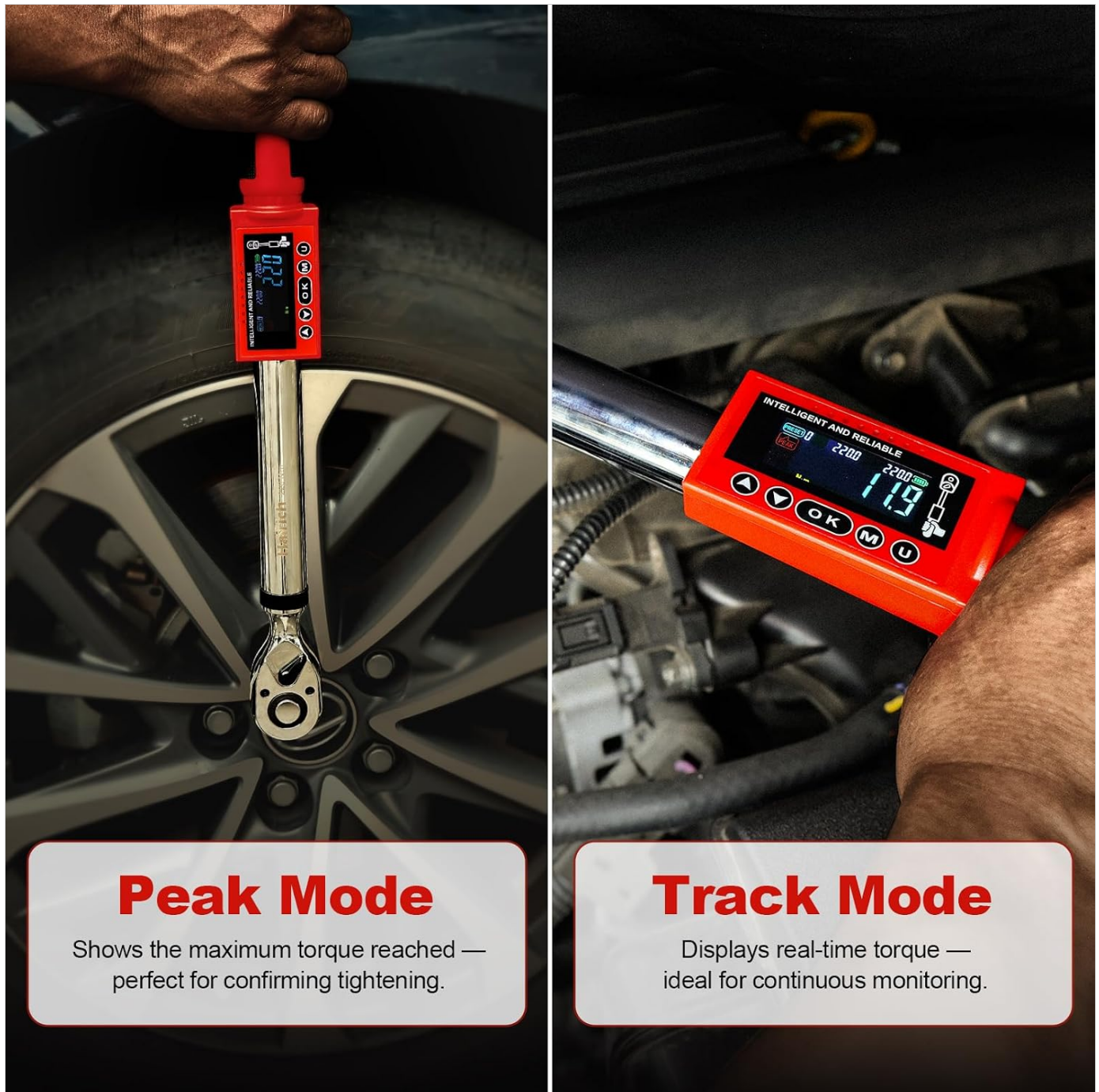


Figure 4: Peak Mode and Track Mode display

5.4 Applying Torque

1. Attach the appropriate socket or adapter to the wrench head.
2. Place the socket onto the fastener.
3. Apply steady force to the wrench handle. The display will show the applied torque.
4. An audible beep and flashing LED will activate when 80% of the preset torque is reached.
5. When the target torque is achieved, the indicator lights will illuminate permanently, and the beep will become continuous. Stop applying force immediately.

$\pm 2\%$ Accuracy

Precision You Can Trust For
Critical Torque Jobs



Figure 5: Applying torque with high accuracy

Buzzer + LED Alerts

Torque reached? Get instant alerts!



Figure 6: Buzzer and LED alerts in action

5.5 Memory Function

The wrench automatically stores up to 500 torque readings. These can be reviewed later for documentation or analysis. Consult the full product manual for detailed instructions on accessing and managing stored data.

ONE WRENCH, ENDLESS APPLICATIONS



Figure 7: Versatile applications of the torque wrench

6. MAINTENANCE

6.1 Cleaning

Wipe the wrench clean with a soft, dry cloth after each use. Do not use abrasive cleaners or solvents, as these can damage the display or finish.

6.2 Storage

Store the digital torque wrench in its protective case in a dry environment, away from direct sunlight and extreme temperatures. Remove batteries if the tool will not be used for an extended period to prevent leakage.

6.3 Calibration

For optimal accuracy, it is recommended to have the torque wrench professionally calibrated periodically, especially after

heavy use or if accuracy is critical for your applications.

7. TROUBLESHOOTING

- **Wrench does not power on:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate readings:** Ensure the correct unit is selected. The wrench may require recalibration. Avoid dropping the tool.
- **Display issues:** Check battery level. If the issue persists, contact customer support.
- **No audible/visual alert:** Verify that the alert function is enabled in the settings (if applicable). Check battery level.

8. SPECIFICATIONS

Feature	Specification
Model Number	HR-DG-003
Drive Size	1/2 inch
Torque Range	11-220 N.m
Accuracy	±2% (Clockwise/Counter-clockwise)
Measurement Units	Nm, ft-lb, in-lb, kgf-cm, kgf-m
Material	Chrome Vanadium Steel
Item Weight	1.5 Kilograms
Color	Orange
Memory Capacity	500 readings

9. WARRANTY AND SUPPORT

This Hairich Digital Torque Wrench is covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the product packaging or contact Hairich customer support. If you encounter any issues or require assistance, please reach out to the retailer or manufacturer's support channels.

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.

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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