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VANPO VP016

VANPO Digital Torque Wrench 1/2" (6.8-135 Nm) Instruction Manual

Model: VP016

Introduction

This manual provides detailed instructions for the safe and effective use of your VANPO 1/2" Digital Torque Wrench. This advanced digital torque wrench offers precise torque management with a clear digital display. It is designed for various applications, including automotive, motorcycle, and bicycle maintenance. Please read this manual thoroughly before operation and keep it for future reference.

Package Contents

Upon opening the package, ensure all the following items are present:

- 1 x VANPO 1/2" Digital Torque Wrench
- 2 x AAA Batteries
- 1 x Screwdriver
- 1 x Instruction Manual (this document)

Image: The VANPO Digital Torque Wrench, screwdriver, and instruction manual neatly arranged in its protective case.

Setup

1. Battery Installation

1. Locate the battery compartment on the handle of the torque wrench.
2. Use the provided screwdriver to open the battery cover.
3. Insert two AAA batteries, ensuring correct polarity (+/-).
4. Replace the battery cover and secure it with the screw.

2. Power On/Off

- To power on: Press the 'C' (ON/OFF) button.
- To power off: Press and hold the 'C' (ON/OFF) button. The device will automatically shut off after approximately five minutes of inactivity to conserve battery life.

Image: Detailed view of the digital display showing "TRACK" mode and "6.80 N.m", with labeled buttons for Backlight/Key Lock, Plus/Minus Torque, Unit Switch, and ON/OFF.

Operating Instructions

1. Changing Measurement Units

Press the 'U' (Unit Switch) button to cycle through available measurement units: N-m (Newton-meters), kgf-cm (kilogram-force centimeters), lbf-ft (pound-force feet), and lbf-in (pound-force inches).

2. Selecting Measurement Mode (TRACK / PEAK)

The torque wrench offers two measurement modes:

- **TRACK Mode:** Displays the real-time torque value as force is applied.
- **PEAK Mode:** Records and displays the maximum torque value achieved during an operation.

To switch between modes, press the 'M' button (Mode button, usually located near the display).

Image: The display showing "TRACK" mode with a real-time torque value (6.80 N.m) and "PEAK" mode displaying a maximum recorded torque value (30.00 N.m).

3. Setting Target Torque Value

Use the ' ∧ ' (Plus) and ' ∨ ' (Minus) buttons to adjust the desired target torque value. The display will show the set value.

4. Applying Torque

1. Attach the appropriate socket or bit to the 1/2" square drive.
2. Place the tool onto the fastener.
3. Apply steady force. The LCD will show the current torque.
4. **Direction Change:** If the product does not perform the tightening operation in the desired direction, hold the square drive interface of the ratchet head with one hand and rotate the ratchet disk with the other hand to change the direction (left or right).

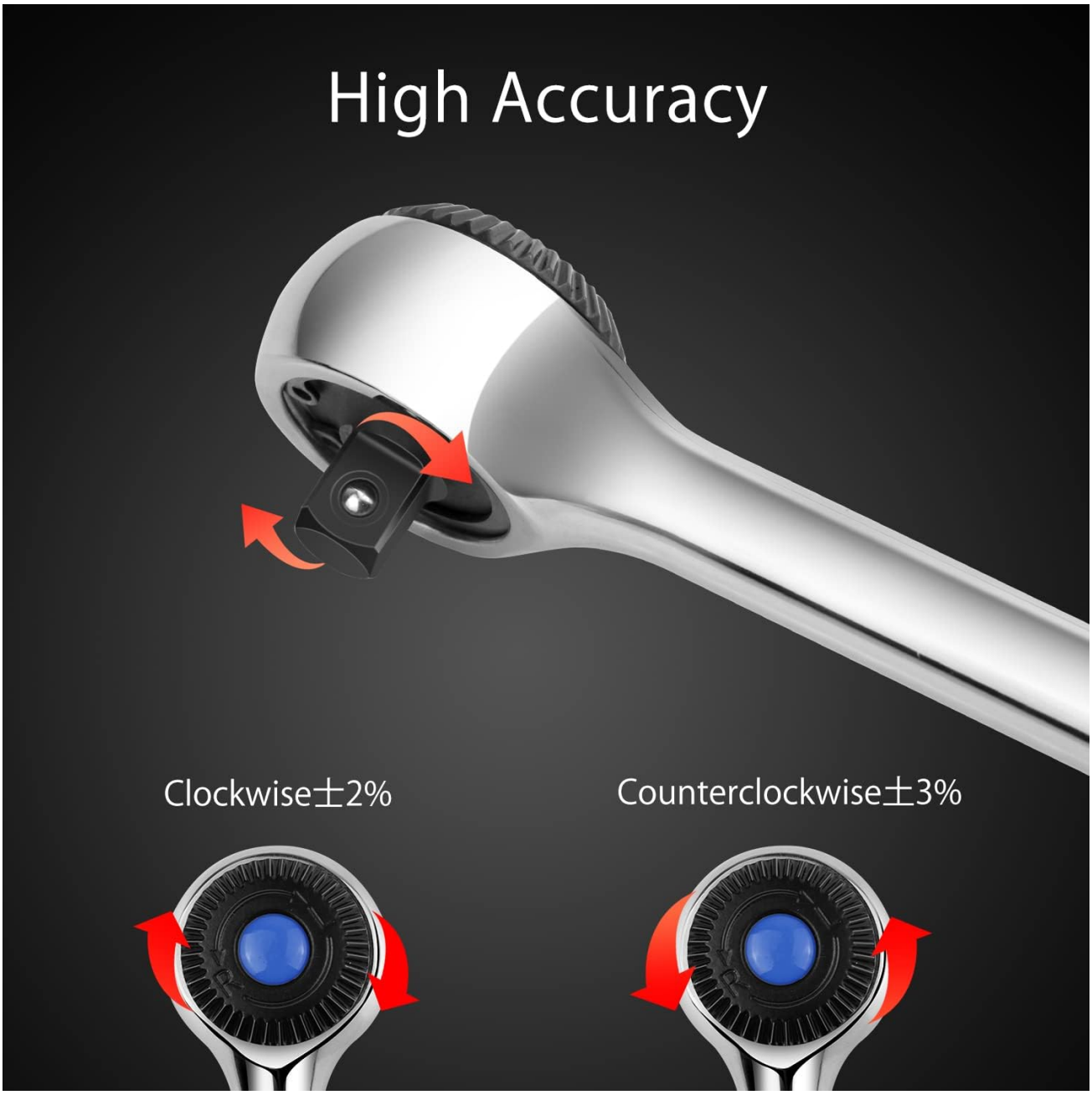

Image: The ratchet head of the torque wrench, illustrating the direction of rotation for clockwise (±2% accuracy) and counter-clockwise (±3% accuracy) operations.

Image: A user applying the VANPO Digital Torque Wrench to tighten a fastener on a bicycle wheel, demonstrating practical use.

5. Torque Alert System

The wrench provides visual and audible alerts as you approach and reach the preset torque value:

- When the applied torque reaches 85%-95% of the preset value, a green LED will illuminate, and the buzzer will sound intermittently.
- When the applied torque reaches 100% of the preset value, a red LED will illuminate, and the buzzer will emit a continuous tone. This indicates the target torque has been reached.

Image: The digital torque wrench display indicating a torque value of 60.00 N.m, with a visual representation of the "BEEP" sound alert when the preset torque is achieved.

6. Backlight and Key Lock

The advanced LCD display features a backlight for use in dark environments.

- To activate/deactivate the backlight: Press the backlight button (often indicated by a sun icon).
- To lock the product: Press and hold the backlight button.
- To unlock the product: Press and hold the backlight button again.

Maintenance and Precautions

- **Over-Torque Protection:** Do not apply force exceeding 110% of the maximum torque value (135 Nm), as this may damage the torque wrench.
- **Handle with Care:** Avoid violently shaking or dropping the torque wrench. Do not store it in locations subject to strong vibrations.
- **Intended Use:** This digital torque wrench is designed for precise torque application. Do not use it as a threading tool or for any purpose other than its intended function.

- **Battery Storage:** If the product will not be used for an extended period, remove the batteries to prevent leakage and damage.
- **Automatic Shut-off:** The product will automatically power off after approximately five minutes of non-use to conserve battery life.
- **Calibration:** This product cannot be reset to zero by the user. For professional calibration, please contact customer support.

Troubleshooting

Problem	Possible Cause	Solution
Wrench does not power on.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with fresh AAA batteries.
Display is dim or flickering.	Low battery power.	Replace batteries.
Wrench not tightening in desired direction.	Ratchet direction is set incorrectly.	Hold the square drive and rotate the ratchet disk to change direction.
Inaccurate torque readings.	Tool may require calibration or has been damaged.	Ensure proper usage. If issues persist, contact customer support for calibration or service.
Wrench is locked and buttons are unresponsive.	Key lock feature is active.	Press and hold the backlight button to unlock the device.

Specifications

Feature	Detail
Product Name	VANPO Digital Torque Wrench
Model Number	VP016
Drive Size	1/2 inch
Torque Range	6.8 - 135 Nm (10-135 N.m for this variant)
Accuracy (Clockwise)	±2%
Accuracy (Counter-clockwise)	±3%
Measurement Units	N-m, kgf-cm, lbf-ft, lbf-in
Display	LCD with Backlight
Power Source	2 x AAA Batteries (included)
Material	Chrome Vanadium Steel
Dimensions (L x W x H)	35 x 12 x 5 cm
Weight	1.15 kg

Warranty and Support

Specific warranty information is not provided in this manual. For details regarding warranty coverage, technical support, or service, please refer to the product packaging or contact VANPO customer service directly through their official website or the retailer where the product was purchased.
Electronic manuals in five languages are available. Please refer to the product's official support channels for access.

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