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VANPO VP024

VANPO 3/8-Inch Drive Digital Torque Wrench Instruction Manual

Model: VP024

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your VANPO 3/8-Inch Drive Digital Torque Wrench. Please read this manual thoroughly before operation and retain it for future reference. This digital torque wrench is designed for precise torque applications, featuring high accuracy, multiple measurement modes, and user-friendly alerts.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, such as safety glasses, when using tools.
- Do not exceed 120% of the maximum torque value specified for the wrench (135 Nm / 99.5 Ft-lbs). Exceeding this limit can damage the tool and lead to inaccurate readings.
- Ensure the workpiece is securely fastened before applying torque.
- Keep the tool clean and dry. Avoid exposure to extreme temperatures or corrosive environments.
- Do not use the torque wrench as a hammer or for prying.
- Remove batteries if the tool will not be used for an extended period to prevent leakage.

3. PACKAGE CONTENTS

Verify that all items are present upon unboxing:

- VANPO 3/8-Inch Drive Digital Torque Wrench
- Storage Case
- Small Phillips Head Screwdriver (for battery compartment)
- 2 x AAA Batteries
- Calibration Certificate
- Instruction Manual

Video: Unboxing and initial overview of the VANPO Digital Torque Wrench, showing the contents of the storage case including the wrench, screwdriver, and calibration report.

4. PRODUCT FEATURES

- **High Accuracy:** Calibrated to $\pm 2\%$ accuracy for clockwise operation and $\pm 3\%$ for counter-clockwise, meeting industry standards.
- **Data Presetting & Storage:** Allows setting up to 6 preset torque values and stores up to 500 sets of data for review.
- **Peak/Track Mode:** Offers Track mode for real-time value observation and Peak mode to record the maximum torque achieved.
- **Multiple Measurement Modes:** Supports Ft.lb, N.m, In.lb, and Kg.cm units, with easy conversion via the display.
- **Audible & Visual Alerts:** Features an advanced high-definition digital display, buzzer, and LED lights that activate when the target torque value is approached or reached, preventing over-tightening.
- **Durable Construction:** Made from Chrome Vanadium Steel for reliability and longevity.

5. SETUP

5.1 Battery Installation

The digital torque wrench requires two AAA batteries for operation. These are typically included in the package.

1. Locate the battery compartment cover on the handle of the wrench.
2. Use the provided small Phillips head screwdriver to unscrew the retaining screw on the battery cover.
3. Carefully remove the battery cover.
4. Insert two AAA batteries, ensuring correct polarity (+ and - ends match the indicators inside the compartment).
5. Replace the battery cover and secure it with the screw.



Image: Step-by-step guide for installing AAA batteries into the digital torque wrench's handle.

6. OPERATION

6.1 Power On/Off

- **Power On:** Press the 'C' button briefly to turn on the device. The display will illuminate.
- **Power Off:** Long press the 'C' button to shut down the device. The wrench will also automatically power off after approximately 5 minutes of inactivity to conserve battery life.

6.2 Unit Switching

Press the 'U' button to cycle through the available measurement units: Ft.lb, N.m, In.lb, and Kg.cm.

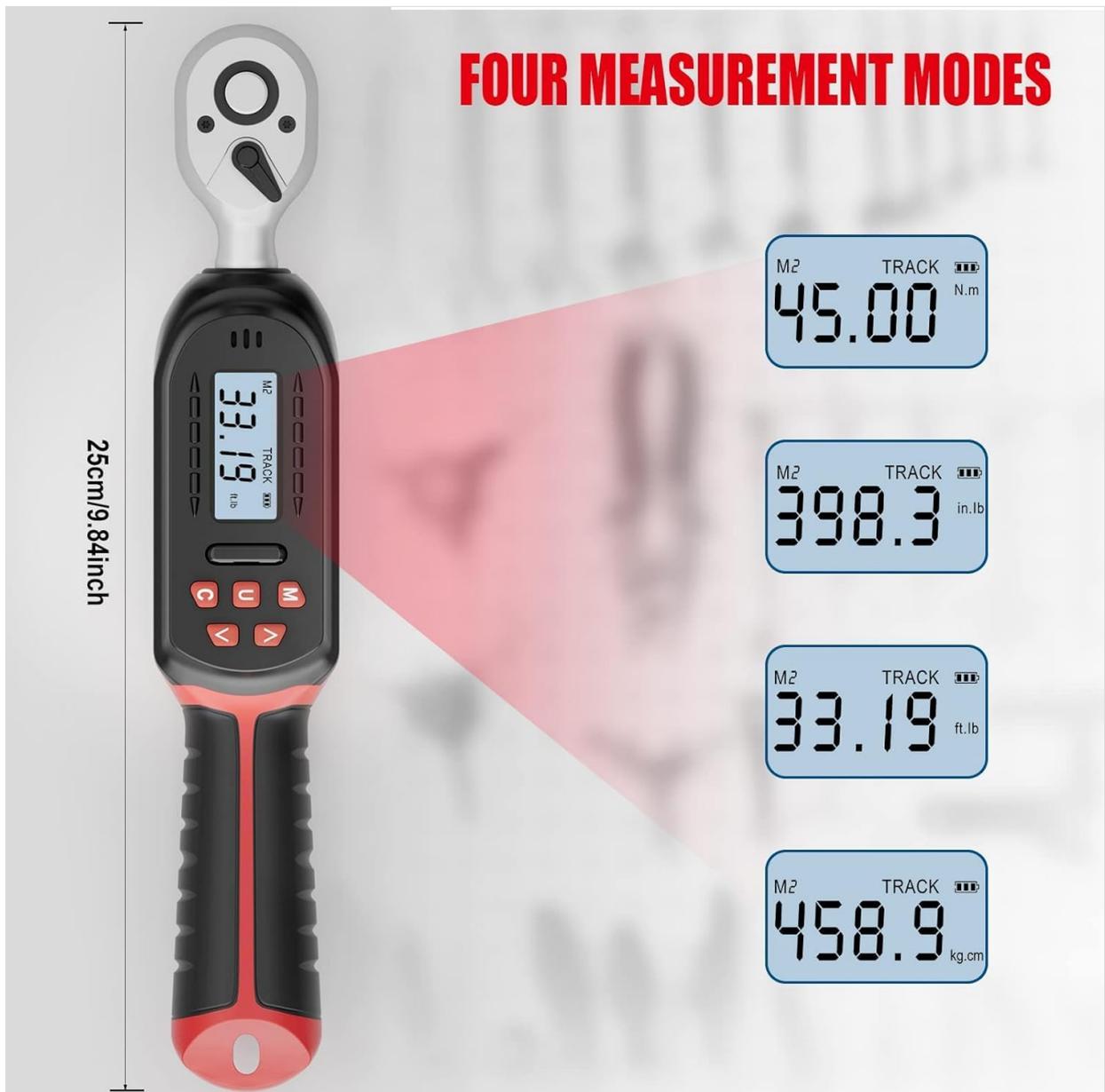


Image: The digital display of the torque wrench illustrating the four available measurement units.

6.3 Setting Torque Values

Use the up ('^') and down ('v') arrow buttons to adjust the desired torque value. Long press for quick adjustment, and short press for precise adjustment.

Video: Demonstration of setting torque values and switching between measurement units on the digital torque wrench.

6.4 Peak/Track Mode

The wrench offers two operational modes:

- **Track Mode:** Displays real-time torque values as force is applied, allowing for stable application.
- **Peak Mode:** Records and displays the maximum torque value achieved during an operation. This mode also allows for presetting up to 6 common torque values and storing up to 500 sets of data.

Switch between modes by pressing the 'M' button.



Image: Visual representation of the wrench's display in Preset, Track, and Peak modes.

6.5 Audible & Visual Alerts

When approaching the preset torque value, the wrench will provide timely alerts:

- A buzzer will sound and LED lights will flash as you get closer to the target torque.
- The alerts intensify as the target torque is reached, helping to prevent over-tightening.



Image: The wrench's display and indicators showing the audible and visual alert system.

7. CALIBRATION

Each VANPO Digital Torque Wrench undergoes multiple calibrations for accuracy and comes with a calibration certificate. This ensures the tool meets industry standards for precision.

For optimal accuracy, it is recommended to perform a zero-point calibration before each use or if the wrench has been dropped or subjected to impact. To calibrate, place the wrench on a flat, stable surface and press the 'C' button. The display will show a calibration sequence before returning to the main screen.

8. MAINTENANCE

- Keep the torque wrench clean and free from dirt, grease, and moisture. Wipe it with a soft, dry cloth after each use.
- Store the wrench in its protective case when not in use.
- For long-term storage, always set the torque wrench to its lowest torque setting (e.g., 5 Ft-lbs or 6.8 Nm) to relieve tension on the internal spring mechanism.
- Remove batteries if the wrench will not be used for an extended period (e.g., several months) to prevent potential battery leakage and damage to the electronic components.

9. TROUBLESHOOTING

- **No Display/Power:** Check if the batteries are correctly installed and have sufficient charge. Replace batteries if necessary.
- **Inaccurate Readings:** Ensure the wrench has been properly calibrated. Avoid dropping the tool, as this can affect accuracy. If issues persist, contact customer support.
- **Alerts Not Functioning:** Verify that the torque value is set correctly and that the batteries are not low.

10. SPECIFICATIONS

Specification	Value
Model Number	VP024
Drive Size	3/8-Inch
Torque Range	5-99.5 Ft-lbs / 6.8-135 Nm
Accuracy (Clockwise)	±2%
Accuracy (Counter-clockwise)	±3%
Measurement Modes	Ft.lb, N.m, In.lb, Kg.cm
Data Storage	500 sets
Battery Type	2 x AAA Alkaline (Included)
Material	Chrome Vanadium Steel
Item Weight	1.03 kg

11. WARRANTY AND SUPPORT

VANPO provides a 12-month warranty for this digital torque wrench. If you encounter any questions or issues with your product, please contact VANPO customer support for assistance. They are available to provide full refunds or replacements as needed.