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VANPO VP048-1

VANPO 1/4 3/8 1/2-inch Drive Click Torque Wrench Set Instruction Manual

Model: VP048-1

Introduction

This manual provides detailed instructions for the safe and effective use of your VANPO 1/4, 3/8, and 1/2-inch Drive Click Torque Wrench Set. This set is designed for precise torque applications in various maintenance tasks, including automotive, motorcycle, and bicycle repairs. Please read this manual thoroughly before operation and retain it for future reference.

Safety Information

- Always wear appropriate personal protective equipment, such as safety glasses, when using tools.
- Ensure the workpiece is securely fastened before applying torque.
- Do not use the torque wrench as a breaker bar or for loosening fasteners. It is designed for tightening to a specific torque.
- Avoid dropping the torque wrench, as this can affect its calibration and accuracy.
- Keep the torque wrench clean and free from oil or grease to maintain a secure grip.
- Store the torque wrench in its protective case when not in use.
- After each use, set the torque wrench to its lowest torque setting before storage to relieve spring tension and maintain calibration accuracy.

Product Overview

The VANPO Torque Wrench Set includes three click-type torque wrenches with different drive sizes and torque ranges, housed in a durable carrying case.

- **1/4-inch Drive Torque Wrench:** 20-240 in.lb (inch-pounds)
- **3/8-inch Drive Torque Wrench:** 5-45 ft.lb (foot-pounds)
- **1/2-inch Drive Torque Wrench:** 20-160 ft.lb (foot-pounds)

Image 1: The VANPO 3-piece torque wrench set, including 1/4", 3/8", and 1/2" drive wrenches, stored in its protective carrying case.

Image 2: Visual representation of the three torque wrenches with their respective drive sizes (1/4", 3/8", 1/2") and approximate lengths in centimeters and inches.

Setup and Operation

1. Attaching and Removing Sockets

Each torque wrench features a quick-release button for easy attachment and removal of sockets and accessories.

1. Press the quick-release button located on the ratchet head.
2. Insert the desired socket or accessory onto the square drive.
3. Release the button to securely lock the socket in place.
4. To remove, press the button and pull the socket off.

Image 3: Illustration of the quick-release button mechanism on the torque wrench head, demonstrating how to attach and remove sockets.

2. Setting the Torque Value

To ensure accurate tightening, follow these steps to set the desired torque:

1. Locate the locking knob at the base of the handle.
2. Pull down the locking knob and hold it in the unlocked position.
3. Rotate the handle to align the desired torque value on the scale. The main scale indicates major increments, and the micro-scale on the handle provides finer adjustments.
4. Once the desired torque is set, release the locking knob. It will automatically spring back into place, locking the setting.

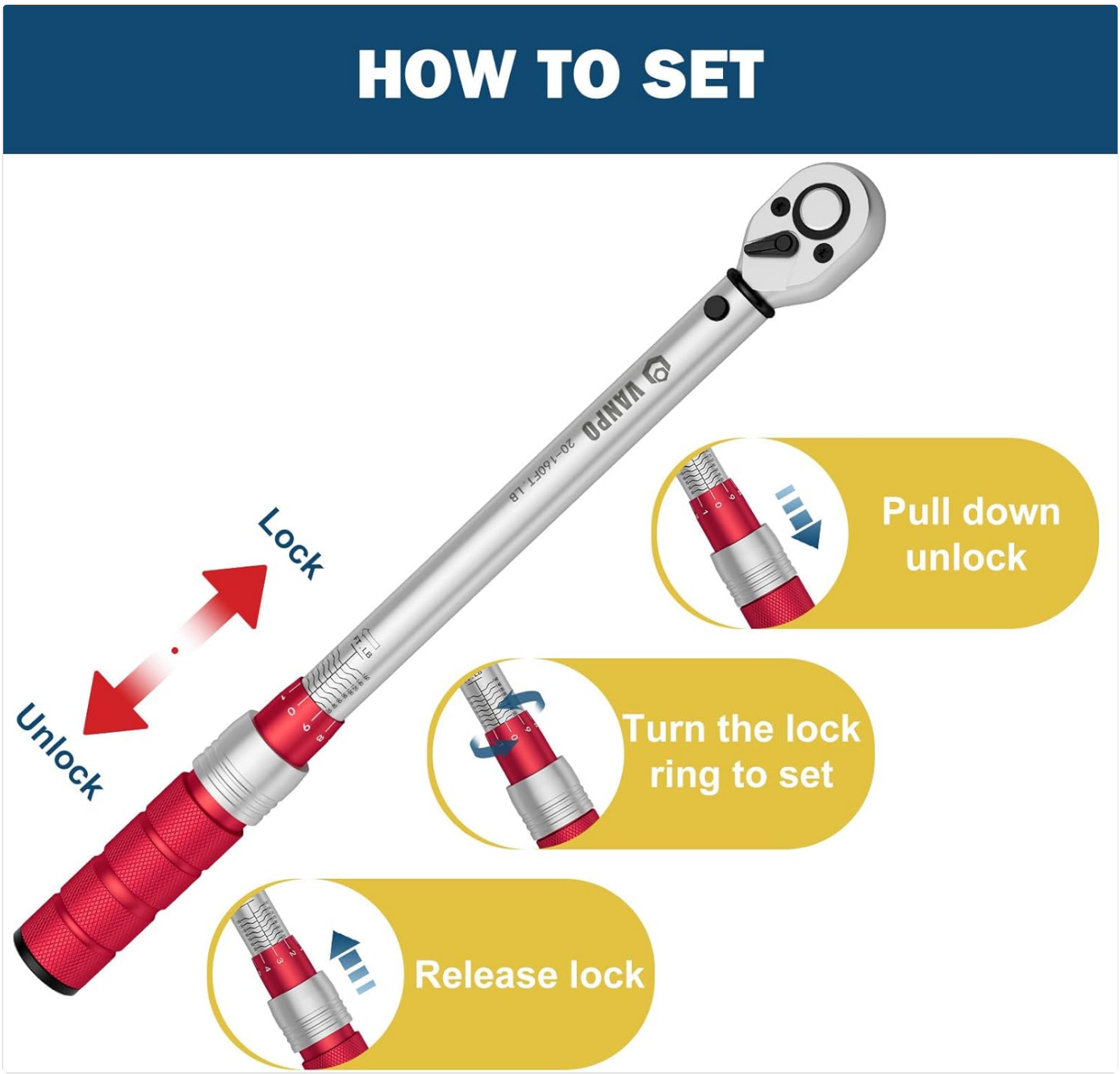

Image 4: Step-by-step guide on how to set the torque value: pull down to unlock, turn the handle to adjust, and release to lock.

3. Applying Torque

The torque wrenches feature a 72-tooth reversible ratchet head, allowing for both clockwise and counter-clockwise operation. However, for torque application, it is generally recommended to use the wrench in the tightening (clockwise) direction unless specified otherwise.

1. Attach the appropriate socket to the wrench and place it on the fastener.
2. Apply smooth, steady pressure to the handle.
3. Continue applying pressure until you hear a distinct "click" sound and feel a slight vibration in the handle. This indicates that the preset torque value has been reached.
4. Immediately stop applying force once the click is heard to prevent over-tightening.

Image 5: Depiction of a torque wrench in use, illustrating the "click" sound and the point at which the desired torque is achieved.

Image 6: Close-up of the torque wrench head, showing its dual-direction capability (clockwise and counter-clockwise) and the internal 72-tooth ratchet mechanism.

Maintenance and Storage

- **Cleaning:** Wipe the torque wrench with a clean, dry cloth after each use. Do not use solvents or harsh chemicals, as these can damage the finish or internal components.
- **Storage:** Always return the torque wrench to its lowest torque setting (but not below the minimum specified value) before storing it in its protective case. This relieves tension on the internal spring, preserving its accuracy over time.
- **Calibration:** Each VANPO torque wrench is calibrated to an accuracy of approximately ±3% and comes with a calibration certificate. Regular professional recalibration is recommended, especially after heavy use or if the wrench has been dropped.
- **Avoid Overload:** Never exceed the maximum torque capacity of the wrench.

Troubleshooting

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

- **No "Click" Sound:** Ensure the torque setting is not below the minimum range. Apply smooth, steady pressure; a quick jerk might prevent the click mechanism from engaging properly. If the issue persists, the wrench may require recalibration or service.
- **Inaccurate Readings:** Verify that the torque setting was correctly locked before use. Ensure the wrench is clean and free from debris. If accuracy is still questionable, professional recalibration is necessary.
- **Stuck Adjustment:** If the locking knob or adjustment mechanism is stiff, ensure it is clean. Do not force the mechanism; contact customer support if it remains stuck.

Specifications

Feature	Detail
Brand	VANPO
Model Number	VP048-1
Drive Sizes Included	1/4 inch, 3/8 inch, 1/2 inch
Torque Range (1/4 inch)	20-240 in.lb
Torque Range (3/8 inch)	5-45 ft.lb
Torque Range (1/2 inch)	20-160 ft.lb
Accuracy	±3%
Ratchet Teeth	72-tooth
Direction	Dual-Direction (Clockwise/Counter-clockwise)
Material	CR-MO (Chromium-Molybdenum Steel)
Product Dimensions	17.3 x 7.3 x 2.4 inches (packaging)
Item Weight	5.59 pounds (total set)

Warranty and Support

VANPO products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official VANPO website. Please have your model number (VP048-1) and purchase date available when contacting support.

Applications

The versatility of this torque wrench set makes it suitable for a wide range of applications requiring precise fastening:

- Bicycle maintenance and assembly
- Motorcycle repair and component installation
- Automotive maintenance, including engine components, wheel screws, and lug nuts
- General device installation and electrical engineering tasks

Image 7: Examples of the torque wrenches being used for bicycle, motorcycle, and car maintenance tasks.

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