

VANPO B0D66GHK64

VANPO 3/4-inch Drive Click Torque Wrench User Manual

Model: B0D66GHK64

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use, setup, and maintenance of your VANPO 3/4-inch Drive Click Torque Wrench. This tool is designed for high-torque applications, offering precise fastening for components requiring specific torque values. Please read this manual thoroughly before operation to ensure proper usage and to prevent damage to the tool or the workpiece.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment, including safety glasses, when operating any tools.
- Ensure the workpiece is securely fastened and stable before applying torque.
- Do not use the torque wrench as a breaker bar or for loosening fasteners. It is designed for precise tightening only.
- Avoid dropping the torque wrench, as this can affect its calibration and accuracy.
- Do not exceed the maximum torque capacity of the wrench (650 Ft-Lb / 880.8 Nm).
- Keep the torque wrench clean and free from oil or grease to maintain a secure grip.
- Store the wrench in its protective case when not in use to prevent damage.

3. PRODUCT OVERVIEW

3.1 Components

- 1 x VANPO 3/4-inch Drive Click Torque Wrench
- 1 x Hex Key (for adjustment)

- 1 x Durable Plastic Storage Case

3.2 Key Features

- **Dual Scale:** Features a dual-range scale of 100-650 Ft-Lb and 135.5-880.8 Nm for versatile applications.
- **High Accuracy:** Meets ASME B107.14-2004 and ISO 6789 standards with a $\pm 3\%$ accuracy. Pre-calibrated and traceable.
- **Click Type Mechanism:** Provides an audible 'click' and tactile sensation when the preset torque is reached.
- **Durable Construction:** Manufactured from wear-resistant and rust-resistant chrome vanadium steel.
- **Comfortable Grip:** Ergonomically designed non-slip handle for secure and comfortable use.
- **48-Tooth Ratchet Head:** Allows for fine adjustments and operation in confined spaces.

3.3 Visual Identification



Figure 1: VANPO 3/4-inch Drive Click Torque Wrench, hex key, and protective case.

QUALITY CONSTRUCTION

Made from heat treated Cr-V steel
for dependable strength



Figure 2: Key design elements and construction details of the torque wrench.

4. SETUP AND TORQUE SETTING

4.1 Adjusting the Torque Value

1. **Unlock the Handle:** Locate the locking mechanism at the base of the handle. Push down on the adjustment knob to unlock the handle.
2. **Set Main Scale Value:** Rotate the handle to align the desired main torque value (e.g., 500 Ft-Lb) with the center line on the wrench body.
3. **Set Minimum Scale Value:** Continue rotating the handle until the desired fine adjustment value (e.g., 10 Ft-Lb) on the handle's scale aligns with the center line. The total torque setting is the sum of the main scale and minimum scale values (e.g., 500 Ft-Lb + 10 Ft-Lb = 510 Ft-Lb).
4. **Lock the Handle:** Release the adjustment knob. It should spring back into place, locking the handle and securing the set torque value. Ensure it is fully locked before use.



Figure 3: Steps for setting the torque value on the wrench.

4.2 Reading the Dual Scale

The wrench features a dual scale for both Foot-Pounds (Ft-Lb) and Newton-meters (Nm). Ensure you are reading the correct scale for your application. The main scale is marked on the wrench body, and the fine adjustment scale is on the rotating handle.



Figure 4: Detailed view of the dual Ft-Lb and Nm torque scales.

5. OPERATING INSTRUCTIONS

1. **Select Drive Direction:** Use the switch on the ratchet head to select the desired tightening direction (clockwise or counter-clockwise).
2. **Attach Socket:** Securely attach the appropriate socket to the 3/4-inch drive square.
3. **Position Wrench:** Place the socket onto the fastener. Ensure the wrench is positioned so you can apply force smoothly and steadily.
4. **Apply Torque:** Apply slow, steady, and smooth pressure to the handle. Do not use sudden jerks or excessive force.
5. **Listen for the 'Click':** Continue applying pressure until you hear and/or feel a distinct 'click' from the wrench. This indicates that the preset torque value has been reached.
6. **Stop Immediately:** Once the 'click' is detected, stop applying force immediately. Further tightening can over-torque the fastener and damage the workpiece or the wrench.
7. **Release Pressure:** Remove the wrench from the fastener.



Figure 5: The 'Click = Stop' mechanism indicating target torque achievement.

5.1 Applications

This VANPO torque wrench is suitable for a wide range of heavy-duty applications where precise torque is critical, including:

- Automotive work, such as truck wheel bolts and suspension components.
- Heavy machinery, including agricultural and construction equipment.
- Industrial equipment, such as machine tools and generators.
- Oil rig maintenance.



WIDE APPLICATION

Figure 6: Examples of wide applications for the torque wrench.

6. MAINTENANCE AND STORAGE

- **Cleaning:** After each use, wipe the wrench clean with a dry, soft cloth. Do not use harsh chemicals or solvents that could damage the finish or markings.
- **Lubrication:** The internal mechanism is factory-lubricated. Do not attempt to lubricate the internal components unless specifically instructed by a qualified technician.
- **Storage:** Always store the torque wrench in its protective case. Set the torque to the lowest setting (100 Ft-Lb or 135.5 Nm) before storing to relieve tension on the internal spring, which helps maintain accuracy over time. Store in a dry, clean environment.
- **Calibration:** Torque wrenches are precision instruments and require periodic calibration to maintain accuracy. It is recommended to verify the calibration of this torque wrench after working for 12 months or 5000 times, whichever comes first.

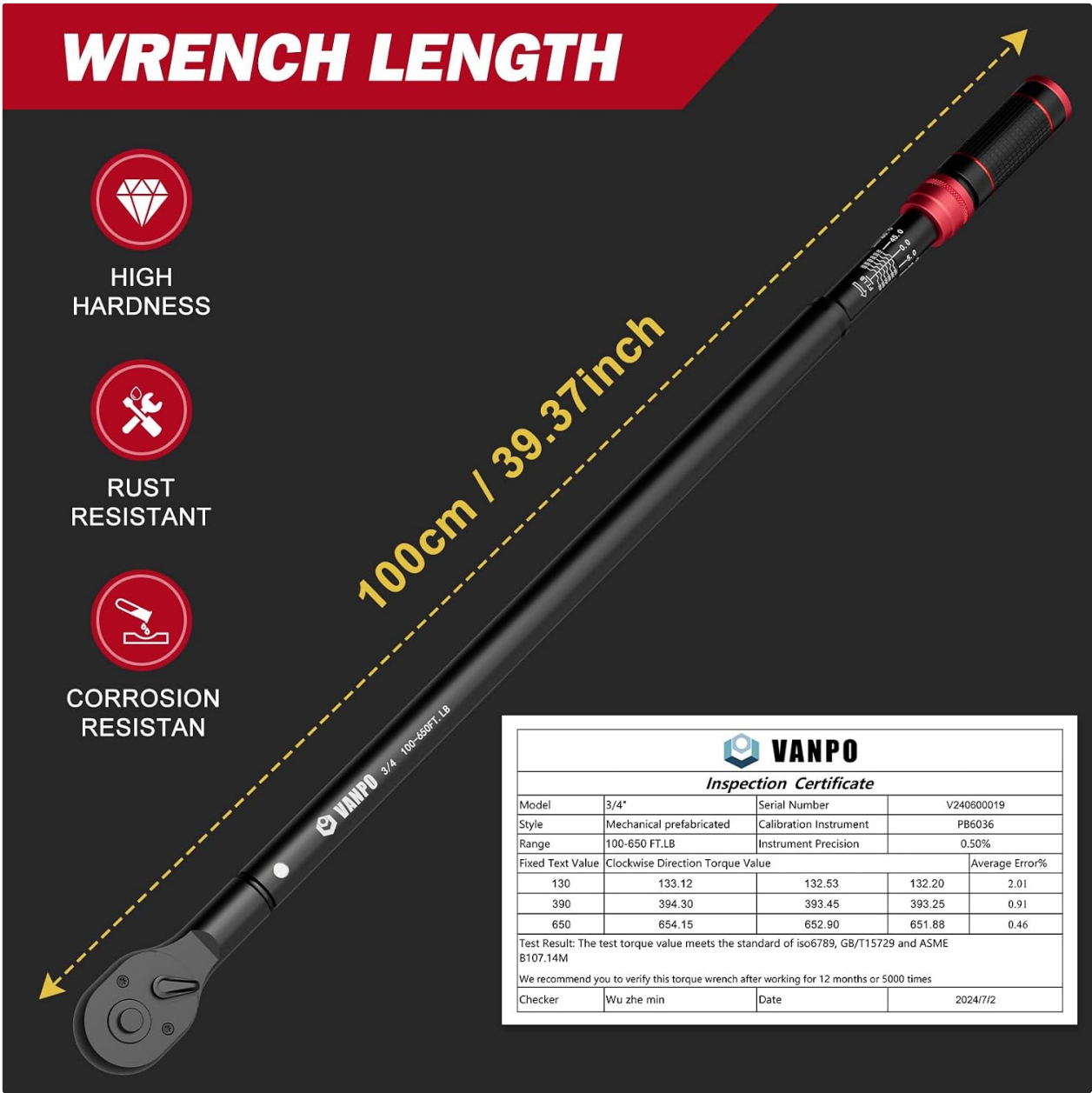


Figure 7: Wrench length and example inspection certificate, highlighting calibration traceability.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No 'click' sound/sensation	Torque setting too high for application; Wrench not properly calibrated; Fastener already tight.	Verify torque setting; Ensure fastener is not already at desired torque; Consider professional recalibration.
Inaccurate torque readings	Wrench dropped or damaged; Improper technique (jerking motion); Out of calibration.	Inspect wrench for damage; Use smooth, steady pull; Seek professional recalibration.
Handle difficult to adjust/lock	Dirt or debris in mechanism; Handle not fully unlocked.	Clean handle area; Ensure adjustment knob is fully depressed when adjusting.

8. SPECIFICATIONS

Specification	Detail
Model	B0D66GHK64
Drive Size	3/4-Inch
Torque Range	100-650 Ft-Lb / 135.5-880.8 Nm
Accuracy	±3% (Meets ASME B107.14-2004 and ISO 6789)
Material	Chrome Vanadium Steel
Length	39 Inches (approximately 100 cm)
Item Weight	16.57 pounds (approximately 7.53 kg)
Head Style	Round, 48-tooth ratchet
Operation Mode	Manual
Included Components	1* hex key, 1* torque wrench

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your VANPO torque wrench, please contact the manufacturer directly. Retain your proof of purchase for any warranty claims.
Manufacturer: VANPO