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› ATsafepro 3/8-inch Drive Click Torque Wrench (5-60 N.m) Instruction Manual

ATsafepro 5-60Nm

ATsafepro 3/8-inch Drive Click Torque Wrench (5-60 N.m)

Model: 5-60Nm

Brand: ATsafepro

1. INTRODUCTION

Thank you for choosing the ATsafepro 3/8-inch Drive Click Torque Wrench. This precision tool is designed for accurate fastening, ensuring that bolts and nuts are tightened to their specified torque values, preventing damage from overtightening or loosening from undertightening. This manual provides essential information for the safe and effective use of your torque wrench.

This professional-grade torque wrench has an applicable range of 5-60 N.m (3.7-44.3 lbf.ft) and complies with DIN ISO and ASME standards. It has undergone strict testing and comes with a calibration certificate and serial number for reliable use.



Image 1.1: ATsafeepro 3/8-inch Drive Click Torque Wrench.

2. SAFETY INFORMATION

Always observe the following safety precautions when using the torque wrench:

- Read and understand this entire manual before operation.
- Wear appropriate personal protective equipment, such as safety glasses and gloves.
- Do not use the torque wrench as a breaker bar or for loosening fasteners. It is designed for tightening only.
- Ensure the socket is correctly seated on the fastener and the wrench drive.
- Apply force smoothly and steadily to the handle. Avoid sudden jerks.
- Stop applying force immediately once the 'click' is felt and heard. Further tightening can damage the fastener or the wrench.
- Do not exceed the maximum torque capacity of the wrench (60 N.m).
- Keep the wrench clean and free from oil or grease to maintain a secure grip.
- Store the wrench in a dry, clean place, preferably in its protective case.

3. PRODUCT OVERVIEW AND FEATURES

The ATsafePRO torque wrench is engineered for precision and durability, featuring a robust design and user-friendly operation.

Key Features:

- **High Durability Design:** Constructed from highly durable and rust-resistant Chromium Vanadium Steel. Features a non-slip, easy-to-grip handle.
- **Precise Adjustment:** Equipped with a 72-tooth reversible ratchet head for smooth operation and fine adjustments in 0.5 N.m increments within the 5.0-60.0 N.m range.
- **Clear Scale:** Dual scales for N.m and FT-LB are laser-engraved for clear visibility and easy reading.
- **Audible and Tactile Feedback:** Provides a clear 'click' sound and tactile feedback when the set torque value is reached, preventing overtightening.
- **Wide Range of Applications:** The reversible head allows for use in both clockwise and counter-clockwise directions, suitable for automotive, bicycle, motorcycle maintenance, and various assembly tasks.
- **Quick Release Button:** Facilitates rapid and secure socket changes.



Image 3.1: Overview of torque wrench features including quick release, CW/CCW operation, 72-tooth ratchet, and internal mechanism.

製品詳細



Image 3.2: Detailed view of the torque wrench showing N.m and lbf.ft scales, quick release button, torque lock ring, and non-slip handle.

4. SETUP

4.1 Unpacking and Initial Inspection

Carefully remove the torque wrench from its packaging. Inspect the tool for any signs of damage. Ensure all components are present and functioning correctly before first use.

4.2 Setting the Torque Value

To set the desired torque value, follow these steps:

1. **Unlock:** Pull down the lock knob located at the base of the handle to unlock the adjustment mechanism.
2. **Adjust:** While holding the lock knob down, rotate the handle to align the desired torque value on the main scale (N.m or lbf.ft) with the zero mark on the micro-scale. Then, rotate the handle further until the desired micro-scale value aligns with the main scale line.
3. **Lock:** Release the lock knob. It will spring back into position, securing the set torque value. The handle should no longer rotate freely.

トルク値の調整方法



Image 4.1: Visual guide for adjusting the torque value. Step 1: Slide down to unlock. Step 2: Rotate handle to adjust. Step 3: Slide up to lock.

Your browser does not support the video tag.

Video 4.1: Demonstration of setting the torque value and using the ATsafePro torque wrench for motorcycle maintenance.

5. OPERATING INSTRUCTIONS

5.1 Attaching Sockets

Press the quick-release button on the ratchet head to insert or remove a 3/8-inch drive socket. Ensure the socket is fully engaged and secure before use.

72 回転ラチェットヘッド 出展



精密ラチェット



スケールクリア



プラグアンドブレイ



頑丈な構造

Image 5.1: Close-up of the 72-tooth ratchet head and quick release mechanism.

5.2 Applying Torque

1. Select the appropriate direction (clockwise or counter-clockwise) using the lever on the ratchet head.
2. Place the socket onto the fastener, ensuring a snug fit.
3. Hold the wrench by the handle and apply a slow, steady pull or push until you feel and hear a distinct 'click'. This indicates that the preset torque has been reached.
4. Stop applying force immediately after the 'click'. Do not continue to tighten.



Image 5.2: Illustration of the audible 'click' feedback when the target torque is achieved.

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Video 5.1: Explanation of the click mechanism in a torque wrench, demonstrating how it prevents overtightening.

6. MAINTENANCE

6.1 Cleaning and Storage

- After each use, wipe the wrench clean with a dry, soft cloth. Do not use solvents or harsh chemicals.
- Store the torque wrench in its protective case in a dry, clean, and temperature-controlled environment.
- **Important:** Always return the torque wrench to its lowest torque setting (5 N.m) before storing. This relieves tension on the internal spring mechanism, preserving its accuracy and extending the tool's lifespan.

6.2 Calibration

Your ATsafePro torque wrench comes with a calibration certificate, ensuring its accuracy at the time of manufacture. For continued precision, periodic re-calibration by a qualified service center is recommended, typically every 12 months or after 5000 cycles of use, whichever comes first.



Image 6.1: Example of a calibration certificate provided with the torque wrench.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No 'click' sound/feel	Torque setting too low or too high; Wrench not properly calibrated; Fastener already tight.	Verify torque setting is within range. Ensure wrench is calibrated. Do not force if fastener is already tight.
Inaccurate readings	Wrench needs re-calibration; Improper handling; Damage to internal mechanism.	Have the wrench re-calibrated. Ensure smooth, steady application of force. Contact customer support if damaged.
Handle stuck/difficult to adjust	Lock knob not fully disengaged; Dirt or debris in mechanism.	Ensure lock knob is pulled down completely. Clean the adjustment area. Do not force.

If you encounter issues not listed here or if solutions do not resolve the problem, please contact ATsafeepro customer support.

8. SPECIFICATIONS

Feature	Detail
Model	ATsafeepro 5-60Nm
Drive Size	3/8 inch (9.53 mm)
Torque Range	5 - 60 N.m (3.7 - 44.3 lbf.ft)
Adjustment Increment	0.5 N.m
Accuracy (Forward Rotation)	±3%
Accuracy (Reverse Rotation)	±6%
Ratchet Teeth	72 teeth
Material	Chromium Vanadium Steel

