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› [ATsafepro Open-End Torque Wrench 3-25 Nm, 9x12mm Adjustable - Instruction Manual](#)

ATsafepro AT215A002-FT-3NM

ATsafepro Open-End Torque Wrench 3-25 Nm, 9x12mm Adjustable - Instruction Manual

Model: AT215A002-FT-3NM

1. INTRODUCTION

Thank you for choosing the ATsafepro Open-End Torque Wrench. This manual provides essential information for the safe and effective operation, maintenance, and care of your new tool. Please read it thoroughly before use and retain it for future reference.

This torque wrench is designed for precise fastening applications requiring specific torque values, ranging from 3 to 25 Newton-meters (26.6 to 221.3 lbf.in). Its interchangeable 9x12mm open-end head makes it suitable for various tasks in HVAC, refrigeration systems, bicycle and motorcycle maintenance, and automotive applications.

Wide Application



Figure 1: The ATsafePro torque wrench is suitable for a wide range of applications, including industrial settings, automotive repair, engine maintenance, and HVAC installations.

2. SAFETY INFORMATION

WARNING: Read all safety warnings and instructions. Failure to follow the warnings and instructions may result in property damage or injury.

- Always wear appropriate personal protective equipment, such as safety glasses, when using tools.
- Ensure the workpiece is securely clamped or stable before applying torque.
- Do not exceed the maximum torque capacity of the wrench (25 Nm).
- Do not use the torque wrench as a breaker bar or for loosening fasteners. It is designed for precise tightening only.
- Keep the tool clean and free from oil, grease, and other contaminants to ensure a secure grip.
- Store the torque wrench in its protective case when not in use to prevent damage and maintain accuracy.
- Do not attempt to repair or modify the torque wrench. Refer to qualified personnel for service.

3. PRODUCT OVERVIEW

The ATsafepro Open-End Torque Wrench is constructed from durable chrome vanadium steel and features an ergonomic design for comfortable and precise use. Key components include:

- **Interchangeable Head:** Allows for easy replacement with various 9x12mm heads (sold separately) to suit different fastener types.
- **Torque Scale:** Clearly marked scale for setting desired torque values in both N.m and lbf.in.
- **Torque Locking Ring:** Secures the set torque value to prevent accidental changes during operation.
- **Non-slip Handle:** Provides a firm and comfortable grip.
- **Main Body:** Made from aluminum alloy for durability and light weight.



Figure 2: Detailed view highlighting the main body, accurate torque scale, torque locking ring, non-slip handle, and the 9x12mm opening size of the interchangeable head.



Figure 3: Examples of various interchangeable heads (ratchet, spanner, open-end) that can be used with the 9x12mm interface. Note: Heads are sold separately.

4. SETUP

4.1 Attaching the Head

The torque wrench features an interchangeable head system. To attach a head:

1. Align the square drive of the desired 9x12mm head with the receptacle on the wrench body.
2. Push the head firmly into place until it clicks and is securely seated.
3. Ensure the head is fully engaged and does not wobble before use.

Easy to install



Figure 4: Demonstrates the simple process of installing an interchangeable open-end head onto the torque wrench body.

4.2 Setting the Torque Value

To set the desired torque value:

1. **Unlock:** Slide the red torque locking ring downwards (towards the handle) to unlock the adjustment mechanism.
2. **Adjust:** Rotate the handle. Turning clockwise increases the torque value, while turning counter-clockwise decreases it. Align the desired value on the main scale with the markings on the handle.
3. **Lock:** Slide the red torque locking ring upwards (away from the handle) to lock the set torque value. Ensure it is fully locked before use; the handle should not be able to turn.

How to Adjust the Required Torque Value



Figure 5: Step-by-step guide showing how to unlock, adjust, and lock the torque setting using the red locking ring and rotating handle.

5. OPERATING INSTRUCTIONS

Once the desired torque value is set and the head is securely attached, you can proceed with tightening fasteners:

1. Select the appropriate interchangeable head for your fastener.
2. Place the wrench head onto the fastener, ensuring a snug fit.
3. Apply steady, increasing pressure to the handle in the tightening direction.
4. Continue applying pressure until you feel a distinct "click" and a slight release sensation from the wrench head. This indicates that the preset torque value has been reached.
5. Immediately stop applying force once the "click" is felt. Over-tightening can damage the fastener or the wrench.
6. Remove the wrench from the fastener.

Easy to Use



Figure 6: The torque wrench being used to tighten a bolt on a bicycle, demonstrating proper application.

Important: This wrench is designed for tightening only. Do not use it for loosening fasteners.

6. MAINTENANCE

- **Cleaning:** After each use, wipe the wrench clean with a dry, soft cloth. Do not use solvents or harsh chemicals, as these can damage the finish or internal components.
- **Storage:** Store the torque wrench in its original protective case in a dry, clean environment. Always set the torque to the lowest setting (3 Nm) before storing to relieve tension on the internal spring, which helps maintain accuracy over time.
- **Calibration:** Torque wrenches are precision instruments and require periodic calibration to maintain accuracy. It is recommended to have the wrench calibrated annually or after approximately 5,000 cycles of use, whichever comes first.
- **Inspection:** Regularly inspect the wrench for any signs of damage, wear, or corrosion. Do not use a damaged wrench.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Wrench does not "click" at set torque.	<ul style="list-style-type: none"> • Torque setting too high for fastener. • Wrench not properly calibrated. • Fastener already tight. 	<ul style="list-style-type: none"> • Verify the correct torque value for the application. • Have the wrench professionally calibrated. • Ensure the fastener is loose before applying torque.
Torque value changes during use.	<ul style="list-style-type: none"> • Torque locking ring not fully engaged. • Handle not gripped properly. 	<ul style="list-style-type: none"> • Ensure the locking ring is slid fully upwards to lock the setting. • Maintain a firm, steady grip on the non-slip handle.
Interchangeable head is loose.	<ul style="list-style-type: none"> • Head not fully inserted. • Incorrect head size. 	<ul style="list-style-type: none"> • Push the head firmly until it clicks into place. • Ensure the head is a 9x12mm compatible type.

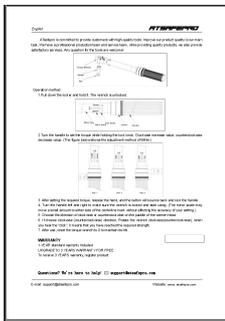
8. SPECIFICATIONS

Feature	Detail
Model Number	AT215A002-FT-3NM
Brand	ATsafepro
Torque Range	3-25 Nm (26.6-221.3 lbf.in)
Accuracy	±3%
Head Type	Interchangeable Open End (9x12mm)
Material	Chrome Vanadium Steel (head), Aluminum Alloy (body)
Dimensions (L x W x H)	24.5 x 2.5 x 2.5 cm
Weight	360 grams
Operating Mode	Mechanical

9. WARRANTY AND SUPPORT

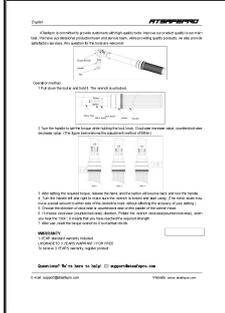
ATsafepro products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact information provided with your purchase or visit the official ATsafepro website.

Please retain your proof of purchase for warranty claims.



[ATsafepro Torque Wrench: Operation and Warranty Guide](#)

A comprehensive guide to operating and understanding the warranty for ATSAFEPRO torque wrenches, detailing usage steps, component descriptions, and care instructions for optimal performance and longevity.



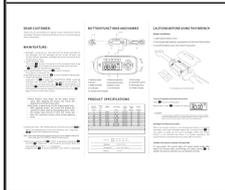
[ATsafepro Torque Wrench: Operation and Warranty Guide](#)

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[Lexivon LX-185 3/4-Inch Drive Click Torque Wrench User Manual](#)

Comprehensive user manual for the Lexivon LX-185 3/4-inch drive click torque wrench. Includes detailed instructions on setting torque in ft-lb and Nm, operation, maintenance, storage, specifications, and unit conversions. Essential guide for accurate torque application.



[MoveCrab Digital Torque Wrench Operating Instructions](#)

Comprehensive operating instructions for the MoveCrab Digital Torque Wrench, detailing features, button functions, modes (PEAK/TRACK), unit selection, battery installation, maintenance, and product specifications.



[TEKTON 24330 3/8-Inch Drive Torque Wrench Operator's Manual](#)

Comprehensive operator's manual for the TEKTON 24330 3/8-inch drive torque wrench, covering setting torque, operation, maintenance, and specifications. Includes detailed conversion tables and diagrams explained in text.

LEXIVON
1/2-INCH DRIVE CLICK
TORQUE WRENCH
25-250 FT-LB/33-9.338.7 Nm



LX-184 USER MANUAL

[LEXIVON LX-184 1/2-Inch Drive Click Torque Wrench User Manual](#)

Comprehensive user manual for the LEXIVON LX-184 1/2-inch drive click torque wrench, covering operation, settings, specifications, maintenance, and storage. Learn how to accurately set and use your torque wrench for optimal performance.