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› ATsafeapro 1/2" 20-230 Nm Torque Wrench Instruction Manual

ATsafeapro AT115C220-230NM

ATsafeapro 1/2" 20-230 Nm Torque Wrench Instruction Manual

Model: AT115C220-230NM

INTRODUCTION

Thank you for choosing the ATsafeapro 1/2" 20-230 Nm Torque Wrench. This precision tool is designed for accurate torque application in various automotive, motorcycle, and general mechanical tasks. Please read this manual thoroughly before use to ensure safe and effective operation and to maximize the lifespan of your tool.



Image: The ATsafePRO 1/2 inch 20-230 Nm Torque Wrench, showcasing its design and scale.

Safety Information

A torque wrench is a measuring instrument, not a standard wrench. Improper use can lead to inaccurate torque readings, damage to fasteners, or personal injury. Always follow these safety guidelines:

- Always wear appropriate personal protective equipment, such as safety glasses.
- Ensure the fastener and tool are clean and free of debris.
- Do not use the torque wrench as a breaker bar or for loosening fasteners.
- Avoid dropping the tool, as this can affect its calibration.
- Store the wrench at its lowest torque setting when not in use to relieve spring tension and maintain accuracy.
- Do not exceed the maximum torque capacity of 230 Nm.

The logo for ATSAFEPRO, featuring the brand name in a stylized, bold font with a yellow and black color scheme.

<PRECAUCIONES>

Suggerimenti per l'utilizzo dei valori di coppia

Cabezal de apriete	Par de apriete de ruptura
1/4 drive	62NM
3/8 drive	202NM
1/2 drive	512NM
3/4 drive	1412NM
1 drive	2515NM



**Una llave dinamométrica no es una llave común.
Es una herramienta de medición.**

Image: Important precautions for torque wrench usage, including a table illustrating breakaway torque limits for various drive sizes (1/4, 3/8, 1/2, 3/4, 1 inch drives).

PACKAGE CONTENTS

Your ATsafePro 1/2" Torque Wrench kit includes the following items:

- 1 x ATsafePro 1/2" Torque Wrench (20-230 Nm)
- 1 x Extension Rod
- 1 x 1/2" to 3/8" Socket Adapter
- 1 x Calibration Certificate
- 1 x Storage Case



Image: The ATsafePro torque wrench kit, displaying the main wrench, a 1/2 inch extension rod, and a 3/8 inch drive adapter.

PRODUCT FEATURES

The ATsafePro 1/2" Torque Wrench is engineered for precision and durability:

- **High Accuracy:** Provides $\pm 3\%$ accuracy, calibrated and tested according to IS and ASME standards. Each wrench includes an individual calibration certificate.
- **Durable Construction:** Made from robust, corrosion-resistant chrome vanadium steel for a comfortable, non-slip grip and long-lasting performance.
- **Dual Scale:** Features clear, laser-etched Nm and lbf.ft scales for easy reading and suitability across various applications.
- **Audible Click Mechanism:** Emits a distinct "click" sound and tactile feedback when the preset torque value is reached, preventing over-tightening.
- **Bi-directional Use:** The wrench head allows for both clockwise and counter-clockwise torque application.
- **Versatile Application:** Ideal for maintenance on cars, SUVs, trucks, motorcycles, as well as for equipment assembly and tire replacement.

Escala doble de N.m y lbf.ft



Image: A detailed view of the torque wrench's handle, highlighting the dual Nm and lbf.ft scales, which are laser-engraved for clear and durable readings.

SETUP

Before using your torque wrench, ensure it is properly set up for the desired torque value.

1. **Unlock the Handle:** Slide the locking ring down to unlock the handle. This allows the handle to rotate freely for torque adjustment.
2. **Adjust Torque Value:** Rotate the handle to align the desired torque value on the main scale with the zero mark on the micrometer scale. For fine adjustments, rotate the handle until the desired value on the micrometer scale aligns with the main scale line.
3. **Lock the Handle:** Slide the locking ring back up to secure the handle. The handle should no longer rotate.
4. **Attach Accessories:** Insert the extension rod or 1/2" to 3/8" adapter into the square drive of the wrench, then attach the appropriate socket.

Cómo ajustar el valor de par de torsión



01

Deslice hacia abajo para desbloquear:

Gire el mango para ajustar el par de torsión



02

Giro de 360°



03

Bloqueo de deslizamiento:

El mango no se puede girar después de bloquearlo

Image: A visual guide demonstrating the three steps to adjust the torque setting: unlock the handle, rotate to the desired value, and then lock the handle.

OPERATING INSTRUCTIONS

Follow these steps for accurate torque application:

1. **Prepare the Fastener:** Ensure the fastener and mating surface are clean and free of rust or debris.
2. **Attach Wrench:** Place the socket firmly onto the fastener.
3. **Apply Force:** Apply smooth, steady force to the wrench handle. Do not use sudden jerks.
4. **Listen for Click:** Continue applying force until you hear and feel a distinct "click." This indicates that the preset torque value has been reached.
5. **Stop Applying Force:** Immediately stop applying force once the click is detected to prevent over-tightening.
6. **Reset for Next Use:** For subsequent fasteners, release the pressure and allow the wrench to reset.



Image: A person demonstrating the use of the ATsafepro torque wrench to tighten a lug nut on a car wheel, ensuring proper torque application.

Video Demonstration: Torque Wrench Usage

Your browser does not support the video tag.

Video: A demonstration showing the assembly of the torque wrench with an adapter and its application for tightening bolts on a bicycle frame, highlighting the click mechanism.

MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your torque wrench:

- **Cleaning:** Wipe the wrench clean with a soft, dry cloth after each use. Do not use solvents or harsh chemicals.
- **Storage:** Always store the torque wrench in its protective case. Before storing, adjust the torque setting to the lowest value (20 Nm) to relieve tension on the internal spring mechanism.
- **Calibration:** Torque wrenches are precision instruments and should be recalibrated periodically, typically every 12 months

or after 5000 uses, to maintain accuracy.

- **Avoid Lubrication:** Do not lubricate the internal mechanism of the torque wrench unless specified by the manufacturer.

TROUBLESHOOTING

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

- **No Click Sound:** Ensure the torque setting is correctly adjusted and locked. If the fastener is already tight, the wrench may not click. If the issue persists, the wrench may require recalibration or service.
- **Inaccurate Readings:** Verify the torque setting is correct. Ensure the wrench is clean and has not been dropped or misused. Recalibration is recommended if accuracy is suspected.
- **Stuck Adjustment Ring:** Ensure the locking ring is fully disengaged before attempting to adjust the torque. Clean any debris from the adjustment mechanism.

SPECIFICATIONS

Specification	Detail
Model Number	AT115C220-230NM
Drive Size	1/2 inch
Torque Range	20-230 Nm (14.8-169.7 lbf.ft)
Accuracy	±3%
Material	Chrome Vanadium Steel
Color	Black
Product Weight	1.68 Kilograms
Operating Mode	Mechanical
Measurement Standard	Metric
Included Items	Torque wrench, extension rod, 1/2-3/8" socket adapter
UPC	608571765801

Incluye un certificado de calibración con un número de serie único

ATSAFEPRO Certificate of Calibration

Inspection Certificate				
Model	1/2 230N.m		Serial Number	A250200826
Style	Mechanical prefabricated		Calibration Instrument	PB6036
Range	20-230N.m		Instrument Precision	0.50%
Fixed Text Value	Clockwise Direction Torque Value			Max Error %
46	46.79	46.56	46.44	1.30
138	138.09	137.69	137.72	-0.12
230	230.13	229.64	230.03	-0.03

Test Result: The test torque value meets the standard of 1S06789.GB/T 15729and ASME B107.14M

We recommend you to verify this torque wrench after working for 12 months of 5000 times

Checker	zhukangyong	Date	2025/2/10
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±3%
Precisión

Image: An example of the ATsafeepro calibration certificate, detailing inspection results and confirming the wrench's ±3% precision.

WARRANTY INFORMATION

ATsafeepro products are manufactured to high-quality standards. This product is covered by a standard manufacturer's warranty against defects in materials and workmanship. Please retain your proof of purchase for any warranty claims. For specific warranty terms and conditions, refer to the documentation included with your product or contact ATsafeepro customer support.

SUPPORT

For technical assistance, troubleshooting, or inquiries regarding your ATsafeepro torque wrench, please contact our customer support team. Contact details can typically be found on our official website or on the product packaging.

