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> ATsafepro Torque Wrench Set Instruction Manual - 1/4", 3/8", 1/2" Drive Click Wrenches

## ATsafepro AT170FS3-6

# ATsafepro Torque Wrench Set Instruction Manual

Models: 1/4" (20–240 in-lb), 3/8" (5–50 ft-lb), 1/2" (10–170 ft-lb)

Brand: ATsafepro | Model Number: AT170FS3-6

## 1. SAFETY INFORMATION

Always wear appropriate eye protection when using tools. Ensure the workpiece is securely fastened. Do not use the torque wrench as a breaker bar or for loosening fasteners. Always set the torque wrench to its lowest setting before storage to relieve spring tension and maintain accuracy. Keep the tool clean and dry.

## 2. PRODUCT OVERVIEW & PACKAGE CONTENTS

The ATsafepro Torque Wrench Set provides precise torque application for various automotive, motorcycle, and bicycle maintenance tasks. Each wrench features a durable chrome vanadium steel construction, a 72-tooth reversible ratchet head, and a clear dual-scale for easy reading.

### Package Contents:

- 1 x 1/4" Drive Click Torque Wrench (20–240 in-lb)
- 1 x 3/8" Drive Click Torque Wrench (5–50 ft-lb)
- 1 x 1/2" Drive Click Torque Wrench (10–170 ft-lb)
- 1 x 1/4"-to-3/8" Socket Adapter
- 1 x 3/8"-to-1/2" Socket Adapter
- 1 x 1/2"-to-3/8" Socket Adapter
- Durable Storage Case
- Calibration Certificate



Image: The complete ATsafepro Torque Wrench Set, including three wrenches and three socket adapters, neatly organized in its storage case.

### 3. FEATURES

- **High Precision:** Each wrench is factory pre-calibrated to  $\pm 3\%$  accuracy.
- **Dual Scale Readability:** Features bold, laser-etched dual scales (ft·lb/in·lb and N·m) for quick and error-free torque setting.
- **Clear "Click" Mechanism:** Provides a distinct audible "click" and tactile feedback when the preset torque is reached, preventing over-tightening.
- **72-Tooth Reversible Ratchet:** Allows for a  $5^\circ$  arc swing, ideal for tight spaces, and operates smoothly in both clockwise and counterclockwise directions.
- **Premium Construction:** Forged from high-strength chrome vanadium steel with a corrosion-resistant finish for durability.
- **Ergonomic Grip:** Knurled aluminum alloy handle offers a secure, non-slip grip, reducing hand fatigue.
- **Versatile Application:** Suitable for a wide range of tasks including installing spark plugs, tightening lug nuts, and bicycle tuning.

**ATSAFEPRO**



Image: Close-up view of the ATsafePro Torque Wrench highlighting its  $\pm 3\%$  accuracy and accompanying calibration certificates.

#### 4. SETUP

No specific setup is required beyond selecting the appropriate wrench and adapter for your task. Ensure the wrench is clean and free from debris before use.

#### 5. OPERATING INSTRUCTIONS

##### 5.1. Setting Torque Value

1. **Unlock the Handle:** Slide the locking ring down towards the handle to unlock the adjustment mechanism.
2. **Adjust Torque:** Rotate the handle to align the desired torque value on the main scale with the zero mark on the micrometer scale. For fine adjustments, use the micrometer scale.
3. **Lock the Handle:** Slide the locking ring back up to secure the set torque value. The handle should not be able to turn after locking.

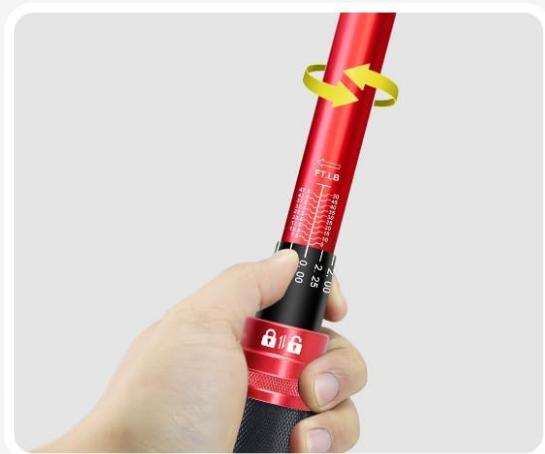
## How to Adjust Torque Value



01

### Slide down to unlock:

Turn the handle to adjust the torque



02

360° Swivel



03

### Slide lock:

The handle cannot be turned after locking

Image: Visual guide demonstrating the three steps to adjust the torque value on the wrench: unlock, rotate, and lock.

### 5.2. Using the Wrench

1. Attach the appropriate socket or adapter to the square drive of the torque wrench.
2. Place the socket onto the fastener you wish to tighten.
3. Apply steady, increasing force to the handle in the desired direction (clockwise or counterclockwise).

4. Continue applying force until you hear and feel a distinct "click" from the wrench. This indicates that the preset torque value has been reached.
5. Stop applying force immediately after the click to avoid over-tightening.



Image: Illustration of the audible "click" mechanism and a detailed view of the dual scale for precise torque reading.

### 5.3. Wide Application

The ATsafepro Torque Wrench Set is designed for a variety of applications, ensuring proper fastener tension for critical components.

## Wide Application



Image: Examples of the torque wrench being used on an automobile wheel, a bicycle, and a motorcycle, demonstrating its versatility.

### 5.4. Product Video Overview

Video: An official product video from SmartireDirect showcasing the ATsafePro Torque Wrench Set in action, demonstrating its features and ease of use.

## 6. MAINTENANCE

- **Cleaning:** Wipe the wrench clean with a dry, soft cloth after each use. Do not use solvents or harsh chemicals.
- **Storage:** Store the torque wrench in its protective case in a dry, clean environment. Always set the torque value to the lowest possible setting (but not below the lowest specified value) before storage to relieve tension on the internal spring.

- **Recalibration:** For continued accuracy, it is recommended to have the torque wrench professionally recalibrated annually or after 5,000 cycles, whichever comes first.

## 7. TROUBLESHOOTING

- **Wrench not clicking:** Ensure the torque value is set correctly and the locking ring is engaged. Apply steady, increasing force; a sudden jerk may prevent the click. If the issue persists, recalibration may be needed.
- **Inaccurate readings:** Verify the wrench is set to the correct unit and value. Avoid using extensions that are not designed for torque wrenches, as they can affect accuracy. Ensure the wrench is properly maintained and recalibrated regularly.

## 8. SPECIFICATIONS

- **Brand:** ATsafepro
- **Model Number:** AT170FS3-6
- **Material:** Aluminum, Chrome Vanadium Steel, Metal
- **Color:** Red
- **Accuracy:**  $\pm 3\%$  (pre-calibrated)
- **Ratchet Teeth:** 72-Tooth
- **Operation Mode:** Mechanical (Click-type)
- **Torque Ranges:**
  - 1/4" Drive: 20–240 in-lb
  - 3/8" Drive: 5–50 ft-lb
  - 1/2" Drive: 10–170 ft-lb
- **Included Components:** 1/4", 3/8", 1/2" Torque Wrenches, 1/4"-to-3/8", 3/8"-to-1/2", and 1/2"-to-3/8" socket adapters.

## 9. WARRANTY AND SUPPORT

ATsafepro products are designed for durability and precision. For warranty claims, technical support, or recalibration services, please refer to the contact information provided with your product packaging or visit the official ATsafepro website.

Regular recalibration is recommended to maintain the specified accuracy of your torque wrench. Please retain your calibration certificate for reference.

