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› ATsafepro Digital Torque Screwdriver 0.09-6 Nm, 46-Piece 1/4" Adjustable Torque Screwdriver User Manual

ATsafepro ATSTS06N-EU

ATsafepro Digital Torque Screwdriver User Manual

Model: ATSTS06N-EU

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your ATsafepro Digital Torque Screwdriver. Please read this manual thoroughly before operating the device and retain it for future reference. This precision tool is designed for accurate torque control in various applications, including bicycle maintenance, electronics assembly, and DIY projects.

2. PRODUCT OVERVIEW AND KIT CONTENTS

The ATsafepro Digital Torque Screwdriver set is a 46-piece kit designed for precision fastening tasks. It features a digital display for real-time torque readings and an intelligent alert system.



Image 2.1: The ATsafePRO Digital Torque Screwdriver and its comprehensive 46-piece accessory set, neatly organized within its durable carrying case.

2.1 Kit Contents:

- 1 x Digital Precision Torque Screwdriver (0.09-6 Nm)
- 40 x High-strength Alloy Steel Bits (various types and sizes)
- 1 x Extension Bar
- 1 x Quick-Release Chuck
- 1 x Spring Socket
- 1 x Standard Screwdriver Handle
- 1 x Robust Plastic Carrying Case

2.2 40 Bit Specifications:

- **Slotted:** 3SL, SL4, SL5, SL6
- **Phillips:** PH0, PH1, PH2, PH3
- **Pozidriv:** PZ1, PZ2, PZ3
- **Hex:** H1.5, H2, H2.5, H3, H4, H5, H6, H8
- **Torx:** T6, T7, T8, T9, T10, T15, T20, T30, T40

45 Piece Digital Screwdriver Set



Image 2.2: A detailed view of the 46-piece set, including the digital torque screwdriver, standard handle, extension bar, quick-release chuck, and various bit types.

3. SPECIFICATIONS

Feature	Detail
Model Number	ATSTS06N-EU
Torque Range	0.09 - 6 Nm
Accuracy	±1% (as per product description)
Measurement Units	in·lb, ft·lb, N·m, kg·cm, kg·m
Bit Size	1/4 inch (6.35 mm)
Number of Items	46 (including screwdriver and bits)
Power Source	3 x AAA Batteries (included)
Weight	1.08 Kilograms (total package)
Dimensions	35.7 x 11.6 x 6.2 cm (package)

Head Types Included	Slotted, Phillips, Pozi-Drive, Hex, Torx
Recommended Uses	Bicycle maintenance, precision equipment assembly, DIY projects

ATSAFEPRO Certificate of Calibration

Inspection Certificate

Model:		Calibration Instrument:	PB6036
Style:	torquegauge	Serial number:	25030791
Range:	6 N.m	Instrument Precision:	0.30%
	Minimum	60%	100%
Target torque:	1.2	3.6	6
Measured value1:	1.20	3.60	5.98
Measured value2:	1.20	3.58	6.02
Measured value3:	1.19	3.60	5.99
Measured value4:	1.21	3.60	6.00
Measured value5:	1.20	3.60	5.99

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	WangKai	Date	2025/3/20
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±2% Accuracy

Comes with a calibration certificate with unique serial number

Image 3.1: An example of the calibration certificate, indicating the instrument's precision and testing results.

4. SETUP

4.1 Battery Installation:

1. Locate the battery compartment on the digital torque screwdriver.
2. Open the compartment cover.
3. Insert 3 AAA alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

4.2 Attaching Bits:

1. Select the appropriate bit for your task from the 40 included bits.
2. Insert the bit into the quick-release chuck or directly into the digital torque screwdriver's head. Ensure it is fully seated and locked into place.
3. For initial quick installation, you may use the standard screwdriver handle with the quick-release chuck. For precise tightening, use the digital torque screwdriver.

Efficiency & Precision in One Set :

Screwdriver handle for quick installation and digital screwdriver for final precise tightening.



Image 4.1: The image illustrates the two-step process: using the standard handle for initial quick fastening (left) and the digital torque screwdriver for final precise tightening (right).

5. OPERATING INSTRUCTIONS

5.1 Basic Operation:

- **Power On:** Short press the 'C' button.
- **Power Off:** Long press the 'C' button.

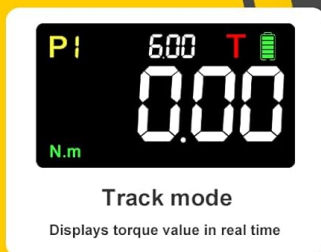
5.2 Mode Selection:

Press the 'P/T' button to switch between the following modes:

- **Track Mode:** Displays the torque value in real-time as you apply force.
- **Peak Mode:** Captures and displays the maximum torque value applied during a fastening operation.

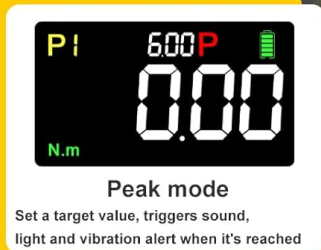
THREE READING MODES

One step switch for quick operation



Track mode

Displays torque value in real time



Peak mode

Set a target value, triggers sound, light and vibration alert when it's reached



Torque memory

Memorizes torque value histories for future query

Four units
N.m - lb.ft - lb.in - kg.cm - kg.m

LED indicators
Lights up in sequence when target torque value is close and reached

Buzzer
Sounds with frequency when target torque value is close and constantly when reached.

LCD screen
Clear screen with backlight



Image 5.1: The digital display illustrating the three reading modes: Track, Peak, and Torque Memory, along with unit indicators and alert features.

5.3 Unit Selection:

Press the 'U' button to cycle through the available measurement units:

- in·lb
- ft·lb
- N·m
- kg·cm
- kg·m



**Instant and accurate reading,
No more guess work,
Tighten the nuts and screws with confidence**

Image 5.2: A close-up of the digital display, highlighting the instant and accurate torque reading, unit selection, and preset torque level indicators (P1-P9).

5.4 Setting Torque Presets (P1-P9):

1. Use the '▲' (Up) and '▼' (Down) buttons to select a preset memory slot (P1-P9).
2. Press 'M' to confirm the selected preset.
3. Adjust the desired torque value using the '▲' and '▼' buttons.
4. Press 'M' again to save the set torque value to the selected preset.

5.5 Smart Torque Alert System:

The screwdriver provides visual and audible alerts to prevent overtightening:

- When the applied torque reaches 80% of the target value, the LED indicators will begin to flash.
- At 90% of the target value, the buzzer will emit distinct beeps, and the LEDs will flash more frequently.
- Upon reaching 100% of the target value, the buzzer will sound continuously, and the LEDs will remain lit, indicating the target torque has been achieved.

5.6 Data Storage and Management:

- **Store Data:** During use, short press 'M' to instantly store the current torque value. The

device can store up to 500 groups of torque values.

- **Manage Memory:** Long press 'M' to enter memory management mode.
- While in memory management mode, press 'U' to select either "Delete All" or "Delete Single" (to delete a specific record).
- Confirm your selection by pressing 'M'.

6. MAINTENANCE

6.1 Cleaning:

- Wipe the tool with a clean, dry cloth after each use.
- Do not use abrasive cleaners or solvents, as these can damage the display or casing.

6.2 Storage:

- Store the digital torque screwdriver and all accessories in the provided robust plastic carrying case.
- Keep the case in a dry, cool place, away from direct sunlight and extreme temperatures.
- Remove batteries if the tool will not be used for an extended period to prevent leakage.

6.3 Calibration:

The ATsafepro Digital Torque Screwdriver comes with a calibration certificate. For optimal accuracy, it is recommended to have the torque wrench recalibrated after 12 months or 5000 cycles of use, whichever comes first.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery installation.	Replace batteries with new AAA alkaline batteries, ensuring correct polarity.
Inaccurate torque readings.	Tool needs recalibration; improper usage technique.	Ensure proper technique (smooth, steady pull). Consider professional recalibration if issues persist.
Alerts (buzzer/LED) not functioning.	Settings issue; low battery.	Check battery level. Review operating instructions to ensure alert settings are correctly configured.
Bits not holding securely.	Bit not fully inserted; quick-release chuck issue.	Ensure bits are fully inserted and locked. Inspect the quick-release chuck for any damage or debris.

8. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official ATsafepro website. Keep your proof of purchase for any warranty claims.

