



# PREMIER 1/4" HEX DRIVE DIGITAL TORQUE SCREWDRIVER 0.05-5Nm

MODEL NO: STS103

Thank you for purchasing a Sealey product. Manufactured to a high standard, this product will, if used according to these instructions, and properly maintained, give you years of trouble free performance.

**IMPORTANT:** PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS & CAUTIONS. USE THE PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. KEEP THESE INSTRUCTIONS SAFE FOR FUTURE USE.



Refer to  
instructions

## 1. SAFETY

- ✓ Ensure all workshop safety rules, regulations and conditions are complied with when using this tool.
- ✓ Maintain the screwdriver in good condition.
- ✗ The screwdriver is a precision tool, **DO NOT** drop it or abuse it.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the working area.
- **WARNING! DO NOT** use the screwdriver if damaged or thought to be faulty.
- ✓ After use, clean and store in a safe, dry, childproof location.

## 2. INTRODUCTION

Suitable for automotive, workshop and factory use. LCD read-out with LED, audible alarm and vibration indicating achieved and target torque levels. Preset track, peak or desired torque levels using simple push-button menu. Clockwise and anticlockwise operation. Selectable read-out in Nm or lb.ft. Accurate to  $\pm 1\%$  of stated capacity. Textured, contoured handle for added grip and comfort. Supplied with test certificate.

## 3. SPECIFICATION

Model No:	STS103
Batteries:	2 x AAA (supplied)
Drive:	1/4"Hex
Length:	155mm
Nett Weight:	0.14Kg
Range:	0.05-5Nm

## 4. PREPARATION

### 4.1. INSERTING THE BATTERIES

- 4.1.1. Remove batteries from outer plastic packaging.
- 4.1.2. Unscrew the 2 screws at location 'B'. See (fig.2). Carefully remove end cap from screwdriver handle.
- 4.1.3. Insert both batteries ensuring the polarity of the battery is the correct orientation in the battery compartment. See (fig.2).
- 4.1.4. Replace cap and re-tighten both screws at location 'B'.

## 5. OPERATION

### 5.1. TURNING THE TOOL ON / OFF (SEE FIGS 1 & 2)

- 5.1.1. Press (I) button to turn on. The buzzer sounds and on the display shows all the readouts simultaneously. After 3 seconds the display shows "0000" on the screen.
- 5.1.2. Under torque measuring mode, press (I) button again to turn the electronic system off.
- 5.1.3. The screwdriver will turn off automatically without any buttons being pressed, or inactivity over 2 minutes.

### 5.2. CHECK BATTERY CHARGE LEVEL INDICATOR:

If the battery is empty, the indicator on the display will show an entirely white battery symbol. The batteries must be replaced in order to guarantee full function and accuracy. See fig.2.

### 5.3. ACTIVATING THE TRACK MODE:

- 5.3.1. After turning on the display, the default is in "Peak" mode, the maximum value reached will be saved additionally and the value is shown on the display for approx. 2 seconds. After that, this value flashes and then you can continue to the next application or press button to zero.

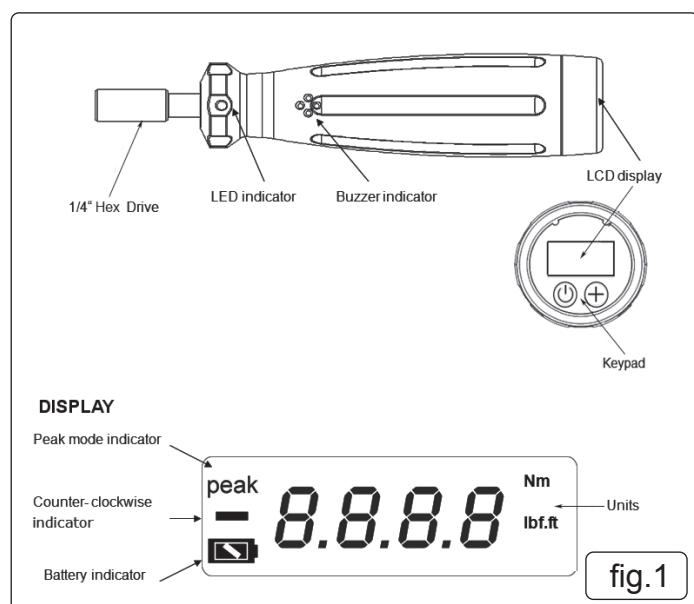


fig.1

5.3.2. During the "Track" mode, the real-time torque reached during operation will be displayed.

5.3.3. To select either "Track" or "Peak" mode, first press: (I) and, within 3 seconds: (P).

**5.4. UNIT SELECTION:**  
With the unit switched on, press and hold (I) for 5 seconds to switch between Nm and lb/ft.

**5.5. PROGRAMMING THE PRE-SET TORQUE VALUE.**

5.5.1. Press and hold the (P) button for 3 seconds to enter the setting mode. Release the button when "Set" is shown on the screen.

5.5.2. Press (P) button to increase the pre-set torque. **Note:** In the setting mode, the display will **NOT** show peak on the left side of the screen.

5.5.3. To increase the value, keep the button pressed to increase the rate of increase.

5.5.4. To decrease the value, press (I) to zero the display, then press (P) to increase to the required value.

5.5.5. Once the target torque has been selected, the screwdriver will memorise that torque after 3 seconds.

5.5.6. If a target torque of more than 100% maximum torque value(5Nm)is selected, the display will zero and no setting will be entered.

**5.6. USING THE TORQUE SCREWDRIVER**

5.6.1. After applied force, the maximum value reached will be saved additionally and the value is shown on the display for approx. 2 seconds. If the target torque is reached, the buzzer will sound, the LED indicator will light and the handle will vibrate for approx. 2 seconds.

5.6.2. This value will continue flashing allowing the reading to be used for the next application. Alternatively, the (P) button may be pressed to zero the reading before the next application.

5.6.3. When force is applied in an anticlockwise direction, the display will show a minus (-) sign on the left side of screen. The following reading will be positive when clockwise torque is applied.

5.6.4. The meter will switch off automatically after approx. 2 minutes of inactivity.

**WARNING: DO NOT** use the screwdriver when the battery level is low. An inaccurate reading is possible in this condition.

## 6. MAINTENANCE

- ✗ **DO NOT** apply force when the power is turned off.
- ✗ **DO NOT** expose the unit to strong magnetic fields, corrosive agents, excessive heat or humidity.
- ✓ Clean only with a damp cloth, do not use proprietary cleaners or solvents to clean this product.
- ✓ If it is anticipated that the screwdriver will be out of use for a time, the batteries should be removed (fig.2).
- ✓ When not in use, store in a cool, dry location away from direct sunlight and out of the reach of children.



### ENVIRONMENT PROTECTION

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatible with the environment. When the product becomes completely unserviceable and requires disposal, drain any fluids (if applicable) into approved containers and dispose of the product and fluids according to local regulations.



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### WEEE REGULATIONS

Dispose of this product at the end of its working life in compliance with the EU Directive on Waste Electrical and Electronic Equipment (WEEE). When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste authority for recycling information.



### BATTERY REMOVAL: SEE FIG.2.

Under the Waste Batteries and Accumulators Regulations 2009, Jack Sealey Ltd are required to inform potential purchasers of products containing batteries (as defined within these regulations), that they are registered with Valpak's registered compliance scheme. Jack Sealey Ltd Batteries Producer Registration Number (BPRN) is BPRN00705.

**Note:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

**Important:** No Liability is accepted for incorrect use of this product.

**Warranty:** This product comes with a lifetime guarantee against manufacturing defects.

**Jack Sealey Ltd t/a Sealey Group**, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk, IP32 7AR UK  
**Jack Sealey (EU) Ltd t/a Sealey Group**, Farney Street, Carrickmacross, Co. Monaghan, A81 PK68 Ireland  
**Tel:** 01284 757500 • **Email:** sales@sealey.co.uk • **Web:** www.sealey.co.uk



## TORQUE TOOL CALIBRATION CERTIFICATE

### Declaration of Conformance

(in accordance with BS EN ISO 6789-1:2017)<sup>1</sup>

Test machine type/name	TORQUE TESTER
Test machine serial No.	
Test machine calibration date	
Measurement error <sup>2</sup>	±1%

Measurement uncertainty	0.20%
Ambient temperature	26°C
Humidity	52%
Test units: (Nm, lb/ft etc)	Nm

1	Min Torque:	0.05	Clockwise
	Max torque:	5	
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading <sup>3</sup>
	Min	Max	
1	0.96	1.04	
3	2.88	3.12	
5	4.80	5.20	

2	Min Torque:	0.05	Anti-clockwise
	Max torque:	5	
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading <sup>3</sup>
	Min	Max	
1	0.96	1.04	
3	2.88	3.12	
5	4.80	5.20	

Tool Model Number	STS103
Tool Serial Number	
Tested by (print name)	
Date of test <sup>4</sup>	

**Notes:** <sup>1</sup> Testing is in compliance with International Standard procedures, with test equipment calibrated by a laboratory traceable to International Standards.

<sup>2</sup> Measurement error shall be less than ¼ of the maximum permissible relative deviation of the torque tool.

<sup>3</sup> The observed values fall within the maximum permissible deviation (tolerance). For tools with a flexible head, the result is valid only if the measuring axis is perpendicular to the axis of the tool.

<sup>4</sup> This Sealey Declaration of Conformance is issued at the time of manufacture. Its' validity is open ended until the torque tool is used for the first time. The default re-calibration period of 12 months (or 5,000 cycles, whichever occurs first) starts after first use of the torque tool (BS EN ISO 6789-1:2017, clause 5.3 refers).