



# TORQUE SCREWDRIVER DIGITAL 0-20NM

## 1/4"HEX DRIVE

MODEL NO: **STS104**

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

- ☐ **WARNING!** Ensure that Health & Safety, Local Authority Regulations and general workshop practice Regulations are adhered to when using tools.
  - ✗ **DO NOT** use tools if damaged.
    - ✓ Maintain tools to ensure that they are in an adequate condition for safe use and optimum performance.
    - ✓ Wear suitable clothing to avoid snagging. **DO NOT** wear jewellery. Tie back long hair.
    - ✓ When not in use, store in a safe, dry childproof place.
    - ✓ Keep children and unauthorised persons away from the work area.
  - ☐ **WARNING!** The warnings, conditions and instructions in this manual cannot cover all possible conditions and situations. The Operator/ User must apply caution and common sense (good practical sense).
- 1.1. **For battery use and care**
- ☐ **WARNING!** Keep batteries dry at all times.
  - ✗ **DO NOT** combine used batteries with new ones or mix battery types or mix different brands.
    - ✓ Insert the batteries carefully as indicated on the product.
    - ✗ **DO NOT** use a battery if it is cracked or broken.
    - ✗ **DO NOT** heat or incinerate batteries.
    - ✗ **DO NOT** throw battery into a fire.
- 1.2. **Use and care**
- ✗ **DO NOT** exceed the permitted maximum torque value for this meter.
    - ✓ Periodic re-calibration is necessary to maintain accuracy.
    - ✓ To avoid damaging the torque screwdriver, **NEVER** apply force to the meter when the power is off. Always turn it on before using.
    - ✗ **DO NOT** turn off the Torque Screwdriver while torque force is applied.
    - ✗ **DO NOT** press, pressure, or damage the LCD display.
    - ✗ **DO NOT** drop or throw this meter. Avoid bumps or shocks to the torque screwdriver.
    - ✗ **DO NOT** leave this meter in any place exposed to excessive heat, humidity, or direct sunlight.
    - ✗ **DO NOT** expose this meter to dust or sand as this could cause serious damage.
  - ☐ **WARNING! DO NOT** use on live electrical circuits.

## 2. INTRODUCTION

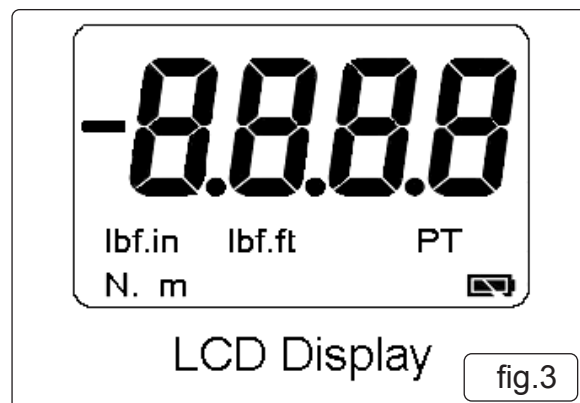
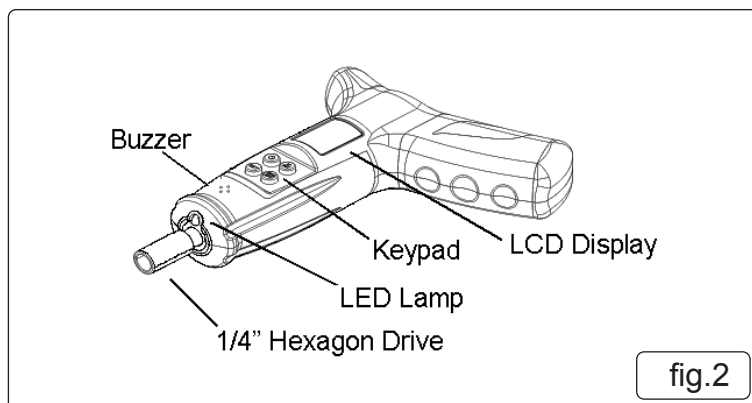
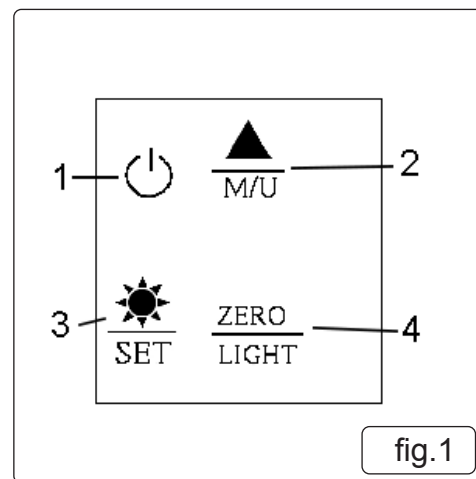
Suitable for automotive, workshop and factory use. LCD read-out with LED, audible alarm and vibration indicating achieved and target torque levels. Preset track, peak or desired torque levels using simple push-button menu. Clockwise and anti-clockwise operation. Selectable read-out in Nm or lb.ft. Accurate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

## 3. SPECIFICATION

Model No..... STS104  
Drive ..... 1/4"Hex  
Range..... 0-20Nm  
Length..... 170mm  
Battery ..... 2 x AAA (supplied)

#### 4. FUNCTION KEYS (FIG.1.)

1. Press to turn the unit on and off.
2. Press to select the measurement mode between "track" and "peak". / Press and hold the button for 2 seconds to select the units. / Under setting mode, press to increase the value to program pre-set torque.
3. Under measure status, press to switch on and off the back light. / Under measure status, press and hold the button for 2 seconds to enter the setting mode. / Under setting status, press to memorize the setting value and quit setting mode.
4. Under measure status, press to Zero tare. / Under measure status, press and hold the button for 2 seconds to switch on and off the LED lamp which is at the front of the tool. / Under setting mode, press to decrease the value to program pre-set torque.



#### 5. PREPARATION

- 5.1. **Install the new batteries.**
    - 5.1.1. Remove battery cover on the side of the screwdriver. Place batteries in battery compartment and replace cover.
  - 5.2. **Turning the tool on / off.**
    - 5.2.1. Press "⏻" button to turn on. The buzzer sounds and on the display you can see all readouts at the same time for just a moment. Then wait the display will show "0000" on the screen.
    - 5.2.2. Press "⏻" button again to turn off the electronic system.
  - 5.3. **Activating the "peak mode"**
    - 5.3.1. After turning on the display, the default is in "TRACK" mode, i.e. the real-time torque reached during operation will be displayed.
    - 5.3.2. During the "PEAK" mode, the torque screwdriver will record and display the present maximum value. When the force released, the maximum value is shown on the display. Press "ZERO LIGHT" button to zero the value or press "▲ M/U" button switch between TRACK mode and PEAK mode.
  - 5.4. **Turning the LCD Back light on/off.**
    - 5.4.1. The LCD Back light can be turned on prior to or after programming the torque.
    - 5.4.2. In order to do this, press the "☀ SET" button to turn on or turn off.
  - 5.5. **Turning the LED lamp on/off.**
    - 5.5.1. The LED lamp, at the front of the tool can be turned on prior to or after programming the torque.
    - 5.5.2. In order to do this, press and hold the "ZERO LIGHT" button for 2 seconds to turn on or turn off.
  - 5.6. **Peak & Track mode and Units selection**
    - 5.6.1. Turn the torque screwdriver on and press "▲ M/U" button switch between "TRACK" mode and "PEAK" mode. In "PEAK" mode, the display shows "peak" on the left side of the screen.
    - 5.6.2. Press and hold "▲ M/U" button for 2 seconds to select units between N.m / lbf-ft / lbf-in.
  - 5.7. **Programming the Pre-set Torque value**
    - 5.7.1. Press and hold "☀ SET" button for 2 seconds to enter the setting mode, the display shows "SET" on the screen. After 2 seconds, "0.00" or the last programmed value will be shown on display, press the "▲ M/U" button to increase the value, or press the "ZERO LIGHT" button to decrease the value.
    - 5.7.2. Once the target torque is select, press "☀ SET" button to memorize and quit setting mode.
- ❑ **WARNING!** If the pre-set torque exceed the 125% Maximum torque value (20Nm), the value will jump back to Zero. The pre-set has failed. If the warning indication did not work, reset mode again. The last pre-set torque value will be shown on the screen. If no value shows, it means the pre-set has failed. Please read the Instruction Manual again and follow the procedure of "Pre-set Torque Value".

## 6. OPERATION

- 6.1. When target torque is reached, the user will hear the buzzer and also feel the vibration at the handle. (NOTE: In PEAK mode, when you reach the programmed torque, the buzzer will emit a continuous tone. Press “▲” button switch to TRACK mode or press “ZERO LIGHT” button to zero the value and turn off the warning indicator.
- 6.2. When the force is applied in an anti-clockwise direction, the display will show a minus (-) sign on the left side of screen, the reading will be positive when the wrench is applied in a clockwise direction. To change ratchet direction see fig.4
- 6.3. The Torque screwdriver will automatically switch off if there is inactivity for over 5 mins.



## 7. MAINTENANCE

- ✗ **DO NOT** store this product in dusty, sandy, humid areas
  - ✗ or near any heat sources.
  - ✗ **DO NOT** leave it in places where it may be subject to high temperatures.
  - ✓ Always keep the torque screwdriver dry. Water or other liquid will damage the electronic components inside.
  - ✓ If the tool is not used for a long period of time, remove the batteries in order to prevent damage from leakage.
  - ✓ Always turn off this product before cleaning. Use only a damp cloth for cleaning. Never use any type of liquid or aerosol cleaner, or any type of organic solvent to clean this product.
- 7.1. **Recalibration**
- 7.1.1. If the user does not utilize a control procedure, a period of 12 months, or 5000 cycles, whichever occurs first, may be taken as default values for the interval between calibrations. The interval starts with the first use of the torque tool. Shorter intervals between calibrations may be used if required by the user, their customer or by legislation.
- 7.1.2. Recalibration must take place after any repair, overload, impact or other misuse. Contact a UKAS accredited laboratory for recalibration.



### 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.

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## 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	Clockwise					
	Max torque:	20						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading <sup>3</sup>					
	Min	Max	1	2	3	4	5	Average
4	3.84	4.16						
12	11.52	12.48						
20	19.20	20.80						

2	Min Torque:	0	Anti-clockwise					
	Max torque:	20	(This part 2 to be completed only where applicable)					
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading <sup>3</sup>					
	Min	Max	1	2	3	4	5	Average
4	3.84	4.16						
12	11.52	12.48						
20	19.20	20.80						

Tool Model Number	STS104
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).