DIGITAL TORQUE ADAPTOR 3/8” SQ DRIVE 27-135NM (19.9-99.6LB-FT)

MODEL NO: **STW293**

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 instruction manual

Wear eye protection

1. SAFETY

- ❑ **WARNING! DO NOT** use the digital torque adaptor if damaged or thought to be faulty.
- × **DO NOT** apply force to the digital torque adaptor when the power is off. Always turn it on before using it, otherwise it will be damaged.
- × **DO NOT** turn off the digital torque adaptor while torque force is being applied to it.
- × **DO NOT** exceed the permitted maximum torque value. To do so will cause it to break.
- × **DO NOT** subject the 3/8” connectors to any force other than a rotational one.
- ✓ Ensure that all components including all adaptors, extensions, drivers and sockets are rated to match or exceed the torque being applied.
- ✓ Observe all equipment, system and manufacturer’s warnings, cautions and procedures when using this digital torque adaptor.
- ✓ Use the correct size socket for the fixing.
- × **DO NOT** use sockets that are worn or cracked.
- ✓ Check that the digital torque adaptor capacity matches or exceeds each application before proceeding.
- ✓ Ensure all workshop safety rules, regulations, and conditions are complied with when using this digital torque adaptor.
- ✓ 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.
- × **DO NOT** press, pressure, or damage the LCD display.
- × **DO NOT** use near strong magnetic fields.
- × **DO NOT** subject to excessive force or shocks.
- × **DO NOT** drop or throw the digital torque adaptor.
- × **DO NOT** leave the digital torque adaptor in any place exposed to excessive heat, humidity or direct sunlight.
- × **DO NOT** use organic solvents such as alcohol or thinners for cleaning.
- × **DO NOT** submerge in water or any other liquid.
- × **DO NOT** disassemble the digital torque adaptor.
- ✓ To ensure accurate measurement, periodic re-calibration is necessary.
- ✓ After use, clean with a soft dry cloth and store in a safe, dry, childproof location away from any heat sources.
- ✓ Avoid any dusty, damp or humid conditions.

2. INTRODUCTION

Designed for use with a standard ratchet or breaker bar. Ideal for work around the engine bay and the tightening of wheel nuts to factory specifications. Large LCD display with LED/audible alarm indicating achieved and target torque levels. Selectable readings in Nm, lb.ft, lb.in, kgf.cm or kgf.m and accurate to ±2% of stated capacity. Memory stores up to 50 readings and features auto-shut-off after 85 seconds. Supplied with certificate and storage case.

3. SPECIFICATION

Model no	STW293
Battery	2 x AAA (supplied)
Drive	3/8”Sq Drive
Length	75mm
Nett Weight	0.198kg
Range	27-135Nm (19.9-99.6Lb-ft)

4. OPERATION

NOTE: DO NOT press the Mem and Power buttons at the same time as this will enter calibration mode.

4.1. PREPARATION

4.1.1. Unscrew the four cross-head screws holding the rear battery cover and remove the battery cover (fig.1). Install two AAA batteries, ensuring correct polarity. Refit the battery cover and refit and tighten the four cross-head screws.

NOTE: When battery power is low, a low battery icon will be displayed.

NOTE: DO NOT use the digital torque adaptor when the battery is in a low state of charge as this will affect the torque adaptor's accuracy.

Remove x 2 cross head screws to open battery compartment

fig.1

fig.2

fig.3

fig.4

4.2. POWER ON

4.2.1. Press the Power button once (fig.2) to turn the digital torque adaptor on. The display will initially show "trACE" or "PtoP". After 2 seconds the LCD panel will show 0.0

NOTE: If left unused, the digital torque adaptor will automatically turn off after 85 seconds.

4.2.2. Ascertain the correct size and type of socket for the fixing to be tightened and attach it to the square drive connector (3/8") at the base of the adaptor.

4.2.3. Insert the required ratchet wrench/drive bar into the socket at the top of the adaptor. **DO NOT** use a tool that will allow you to apply excessive force through the adaptor.

4.3. SELECTING UNIT OF MEASUREMENT

4.3.1. Press M and P/Tbuttons together (fig.3) and release to select different units of torque measurement (Nm/lb.ft/lb.in/kgf.cm/kgf.m) in rotation.

4.3.2. When the units are changed, the target setting will also be changed to the new unit value.

4.4. SETTING THE TARGET TORQUE VALUE

4.4.1. To increase the value, press and hold the (+) button (fig.4), the target value will display for 10 seconds then the LCD will display 0.0.

4.4.2. To decrease the value, press and hold the (-) button (fig.4), the target value will display for 10 seconds then the LCD will display 0.0.

NOTE: In use, when the torque is approaching within 20% of the target value, the red LED will flash and an intermittent buzzer warning will be heard, indicating that the target torque value is nearing. When the target torque value is reached, the red LED will illuminate and the buzzer will sound. Immediately stop applying pressure to the fixing.

fig.5

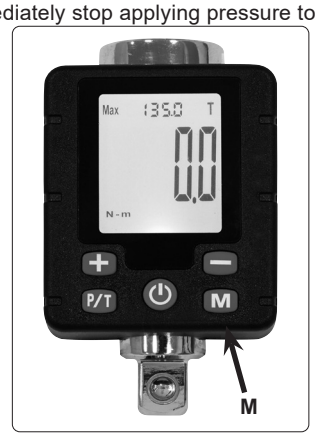

fig.6

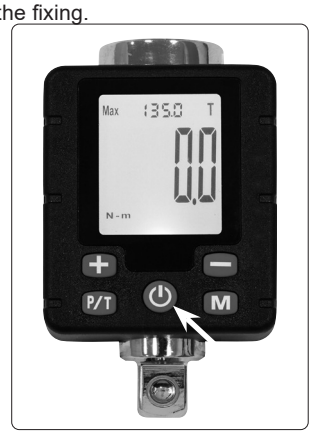

fig.7

4.5. SELECTING PEAK OR TRACE

4.5.1. **Selecting Peak:**

Press and release P/T button (fig.5), the LCD panel shows "PtoP", after 2 seconds the LCD panel shows 0.0.

4.5.2. **Selecting Trace:**

Press and release P/T button (fig.5), the LCD panel shows "trACE", after 2 seconds the LCD panel shows 0.0.

4.6. MEMORY

4.6.1. Store reading must be under the "PtoP" mode.

4.6.2. Press "Mem" button for at least 1 second and release (fig.6), the LCD display shows the memory number "P01" then the torque value for this.

4.6.3. Pressing the "Mem" button again for at least 1 second, the LCD display shows the memory number "P02" and then the torque value. Repeat to cycle through all memory values ("P01" is the latest reading, "P50" is the oldest). The digital torque adaptor stores the last 50 torque value readings.

4.7. TURNING ADAPTOR OFF

4.7.1. If the digital torque adaptor is not used for 85 seconds, it will automatically switch off, otherwise manually turn it off by pressing and releasing the power button (fig.7).

5. MAINTENANCE

5.1. BATTERY CARE AND USE

5.1.1. Keep the batteries dry at all times.

× **DO NOT** combine used batteries with new ones or mix battery types.

5.1.2. Insert/remove the batteries carefully as described in Section 4.1.1.

5.1.3. Never use a battery if it is cracked, broken or leaking.

5.1.4. Never heat or incinerate batteries.

5.1.5. See battery disposal information below.

5.1.6. If the digital torque adaptor is not being used for a longer period of time, remove the batteries to prevent damage from leakage.

5.2. CALIBRATION

5.2.1. Periodic calibration is required for this product, contact your Sealey stockist for details.

5.2.2. Use only a damp cloth for cleaning. Never use any type of liquid, aerosol cleaner, or any type of organic solvent.

6. END OF LIFE

6.1. Dispose of the unit in accordance with local and national regulations and contents of page footers WEE and Environment Protection.

BATTERY REMOVAL REFER TO 4.1.1.

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.

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.

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.

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: Guarantee is 12 months from purchase date, proof of which is required for any claim.

REGISTER YOUR PURCHASE HERE

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TORQUE TOOL
CALIBRATION CERTIFICATE

Declaration of Conformance
(in accordance with BS EN ISO 6789-1:2017)[1]

Test machine type/name	TORQUE TESTER
Test machine serial No.	
Test machine calibration date	
Measurement error[2]	±1%

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

1		Min Torque:	27	Clockwise					
		Max torque:	135						
Test %	Test Load	Tolerance ± 4 % of Test Load		Completed test reading[3]					
		Min	Max	1	2	3	4	5	Average
20%	27	25.92	28.08						
60%	81	77.76	84.24						
100%	135	129.60	140.40						

2		Min Torque:		Anti-clockwise (This part 2 to be completed only where applicable)					
		Max torque:							
Test %	Test Load	Tolerance ± 4 % of Test Load		Completed test reading[3]					
		Min	Max	1	2	3	4	5	Average
20%	0	0.00	0.00						
60%	0	0.00	0.00						
100%	0	0.00	0.00						

Tool Model Number	STW293
Tool Serial Number	
Tested by (print name)	
Date of test[4]	

Notes: [1] Testing is in compliance with International Standard procedures, with test equipment calibrated by a laboratory traceable to International Standards.

[2] Measurement error shall be less than ¼ of the maximum permissible relative deviation of the torque tool.

[3] 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.

[4] 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).