



INSTRUCTIONS FOR:
**1/2" SQ DRIVE DIGITAL
 ELECTRONIC TORQUE
 WRENCH 40-200Nm**
 MODEL No: **STW298**

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



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS 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. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

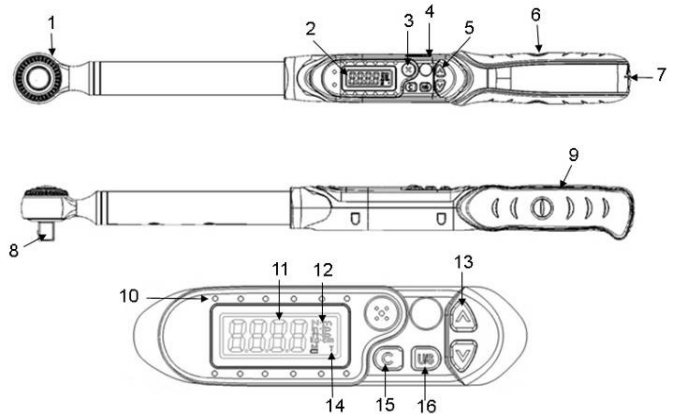
- WARNING! DO NOT** use the wrench if damaged or thought to be faulty.
- ✓ Ensure all workshop safety rules, regulations and conditions are complied with when using this wrench.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear steel toe-capped non-slip shoes / boots.
- ✓ Always wear eye protection when using the wrench.
- ✓ Keep children and unauthorised persons away from the working area.
- ✓ Ensure that all hand tools, sockets and extensions are not damaged, use of such items may result in personal injury.
- ✓ Apply the torque slowly and grip the centre of the handle.
- x **DO NOT** apply load to the end of the handle.
- x **DO NOT** subject the wrench to excessive force or shocks.
- x **DO NOT** use the wrench to break fasteners.
- x **DO NOT** use the wrench as a hammer or lever bar.
- x **DO NOT** use extensions on the handle as this may result in damage to the wrench and/or cause personal injury.
- x **DO NOT** drop or throw the wrench.
- x **DO NOT** use the wrench unless you have been instructed in its use by a qualified person.
- x **DO NOT** leave the wrench in any place exposed to excessive heat, humidity or direct sunlight.
- x **DO NOT** use organic solvents such as alcohol or thinners to clean the wrench.
- x **DO NOT** use this wrench in water. (not waterproof). If the wrench gets wet, dry it immediately.
- x **DO NOT Over-torque (110% of Max. torque range) could cause damage or loss of accuracy.**
- x **DO NOT** use or store the wrench near a magnet.
- x **DO NOT** expose the wrench to dust or sand as this could cause serious damage.
- x **DO NOT** apply excessive force to the LCD panel.
- ✓ After use clean with a soft dry cloth and store in a safe, dry, childproof location.

2. INTRODUCTION & SPECIFICATION

Rugged and resilient digital torque wrench suitable for workshop and factory use. LCD read-out with LED/audible alarm indicates achieved and target torque levels. Track peak and working torques using simple push button menu. Selectable read-out in Nm, lb.ft, lb.in or kg.cm. Reversible Chrome Vanadium ratchet allows torque reading in either direction. Accurate to $\pm 3\%$ CW and $\pm 4\%$ CCW between 20% and 100% of wrench's stated capacity. Tested in accordance with EN ISO 6789. Supplied with certificate and storage case.

2.1 MAIN FEATURES

Digital torque value readout.
 +/- 3% accuracy CW and +/- 4% accuracy CCW operation.
 Peak-hold and track mode selectable.
 Buzzer and LED indicator for the pre-settable target torque.
 Engineering units (N-m, ft-lb, in-lb, kg-cm) selectable.
 Auto Sleep after about 5 minutes idle.
 Compatible with rechargeable batteries.



2.2 NAMES AND FUNCTIONS OF PARTS

- | | |
|------------------------|-------------------------------------|
| 1. Round Head Ratchet | 10. LED Indicator |
| 2. LCD Readout | 11. Torque Value |
| 3. Buzzer | 12. Unit (N-m, ft-lb, in-lb, kg-cm) |
| 4. Communication Port | 13. Up/Down Button |
| 5. Button | 14. Peak hold/Track mode |
| 6. Battery Compartment | 15. Power on/Clear Button |
| 7. Battery Cover | 16. Unit/Setting Button |
| 8. Ratchet Drive | |
| 9. Anti-slip Handle | |



2.3 SPECIFICATIONS

Model No.	STW298
Max. Operation Range (N-m)	200
Square Drive (inches)	1/2
Alarm Setting Range (N-m)	10~200
Length (mm)	500
Accuracy *1	CN
	CW±3% CCW±4%
Pre-setting No.	1 set
Bright LED	12 LED / 4Red + 8Green
Operation Mode	Peak-hold/Track
Unit Selection	N-m, in-lb, ft-lb,kg-cm
Head Type	Round Head Ratchet
Gear Teeth	52
Button	4
Battery	AA X 2
Battery Life *2 (Continuous operation)	110 hrs.
Battery Life *2 (Standby)	1 year
Operating Temperature	-10°C~60°C
Storage Temperature	-20°C~70°C
Humidity	Up to 90% non-condensing
Drop Test	1m
Vibration Test *3	10G
Life time *4	10000 cycle
Environmental test *5	Pass
Electromagnetic compatibility test *6	Pass

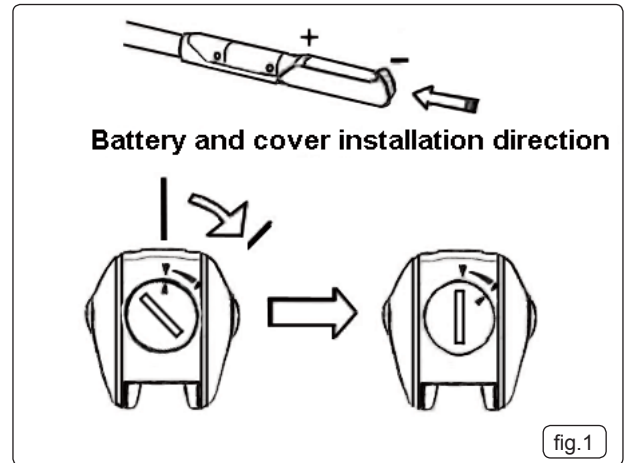
* See Note:

- The accuracy of the readout is guaranteed from 20% to 100% of maximum range + /- 1 increment. The torque accuracy is a typical value. Calibration point is at the middle line of black circle area on the rubber grip. The torque wrench must be calibrated annually.
- Use two AA batteries.
- Horizontal and vertical test.
- One cycle means swing the torque wrench from 0 N-m to maximum range and back to 0 N-m.
- Environmental test:
 - Dry heat
 - Cold
 - Damp heat
 - Change of temperature
 - Impact (shock)
 - Vibration
 - Drop
- Electromagnetic compatibility test:
 - Electrostatic discharge immunity (ESD)
 - Radiated susceptibility
 - Radiated emission

3. OPERATION

3.1 BEFORE USING THE WRENCH

- Remove the battery cover.
- Insert two AA batteries matching the +/- polarities of the battery to the battery compartment.
- Put on the battery cover, aligning the arrows on the cover and end of wrench as shown in fig.1, turn the cover clockwise to align the second arrow.



- Press **C** to power on the digital torque wrench.
- Press **C** to reset the digital torque wrench before using it.



- WARNING!** If an external force is applied to the torque wrench during power-on/reset or wake up period, an initial torque offset will be recorded in the memory.

3.2 Activation during sleep mode

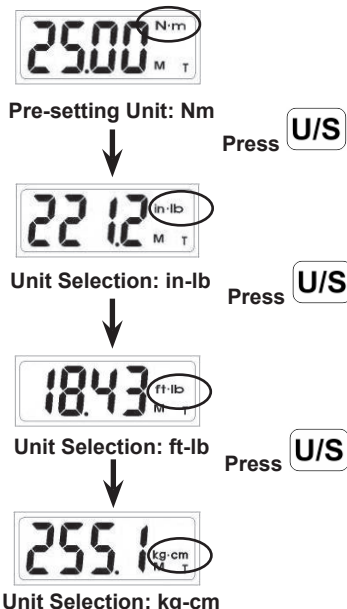
The wrench will auto sleep after 5 minutes idle for power saving.
Press **C** to wake up the wrench from sleep mode.

Note: The sleep function is disabled while the unit is being calibrated and it is set in the communication mode.

- If the wrench does not function normally, press **C** and **▲** together to reset the wrench.
- If the battery voltage is under 2.3 volts, the wrench will display a battery symbol and then turn off after a short period.

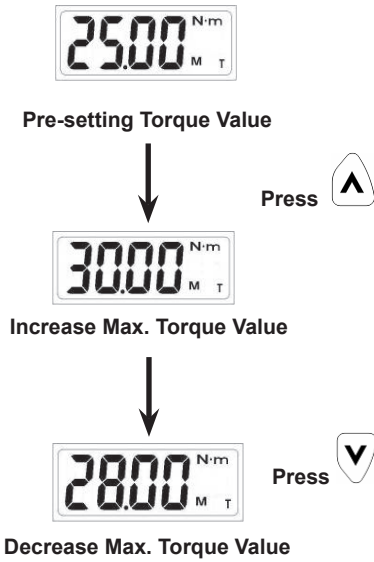


3.5 UNIT SELECTION



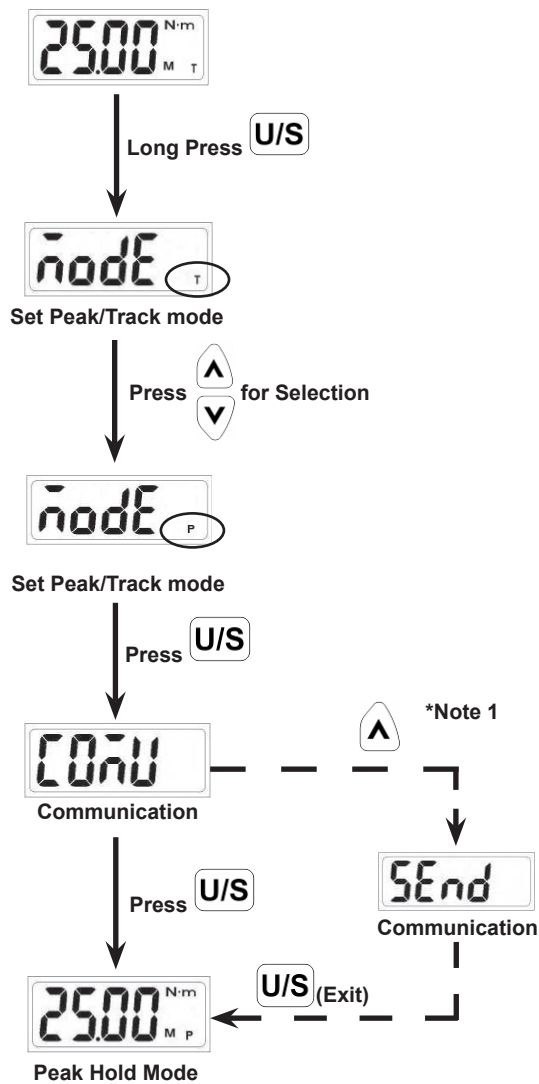
Note: The "Unit Selection" is in sequential order.

3.6 SETTING MAXIMUM TORQUE VALUE



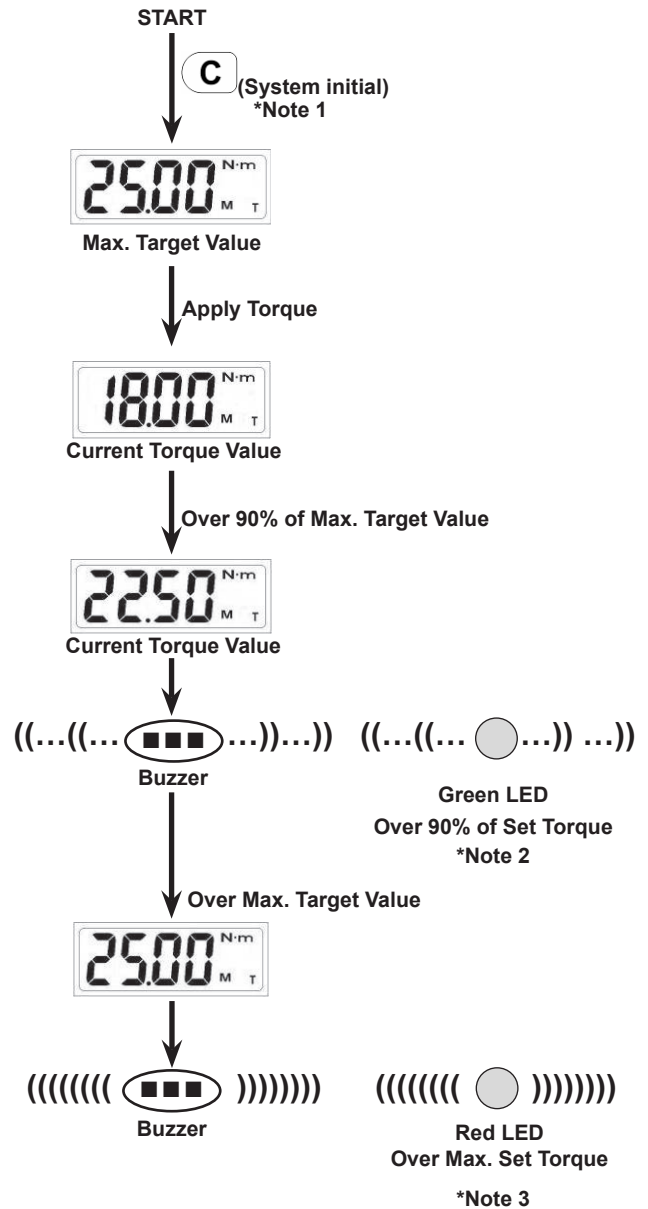
Note: If the display shows **Er0** the wrench has had a torque of more than 110% of the maximum specification applied.

3.7 PEAK HOLD / TRACK MODE SELECTION



Note: Communication is for calibration of torque wrench. Please contact your Sealey dealer for more information.

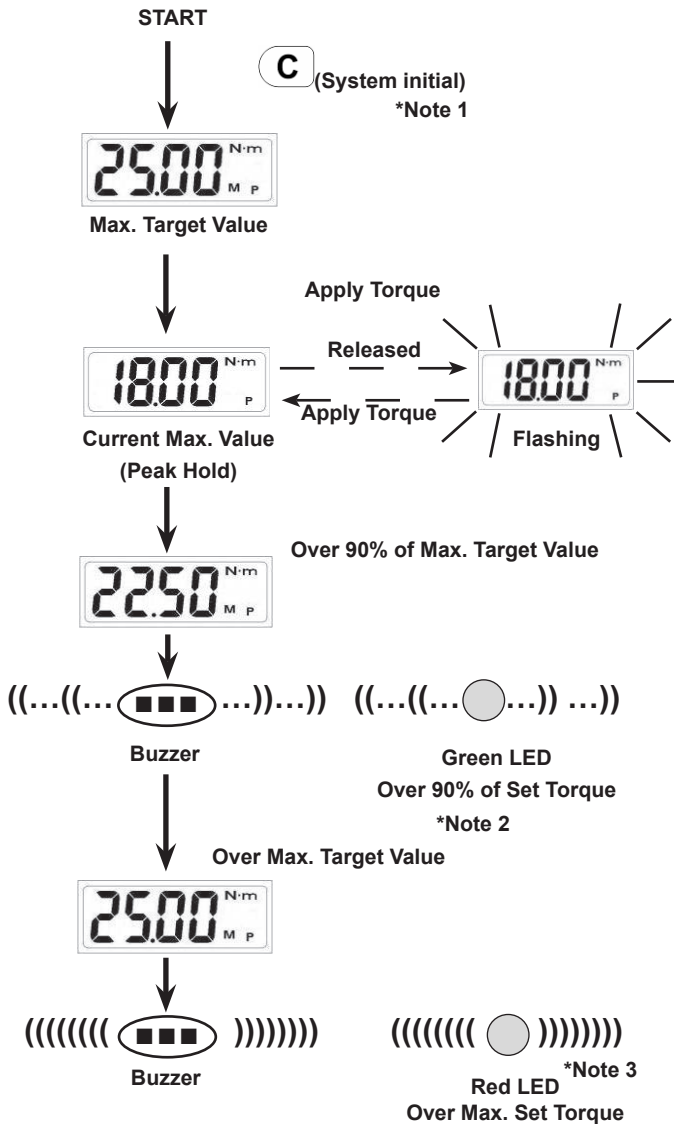
3.8 TRACK MODE OPERATION



Note:

1. If the display shows **Er0** the wrench has had a torque of more than 110% of the maximum specification applied.
2. The green LED will be on for 90% of maximum setting torque.
3. The red LED will be on 100% of maximum setting torque.

3.9 PEAK HOLD MODE OPERATION



- Note:
1. If the display shows **Er0** the wrench has had a torque of more than 110% of the maximum specification applied.
 2. The green LED will be on for 90% of maximum setting torque.
 3. The red LED will be on 100% of maximum setting torque.

4. CALIBRATION & MAINTENANCE

4.1 CALIBRATION

Annual recalibration of the torque wrench is necessary to maintain accuracy. Please contact your Sealey dealer.

4.2 BATTERY MAINTENANCE

For replacement of batteries refer to section 3.1. Ensure that contacts are clean before replacing batteries.

Note: If the wrench is not used for an extended period of time, remove the batteries.

WARNING! DO NOT mix battery types or combine used batteries with new ones.

Dispose of used batteries in accordance with local authority regulations.

DO NOT throw batteries into a fire.



5. DECLARATION OF CONFORMITY

Declaration of Conformity We, the sole importer into the UK, declare that the product listed below is in conformity with the following standards and directives.

Digital Torque Wrench
Model No: STW298
2002/95/EC RoHS Directive
2002/96/EC WEEE Directive

Signed by Steve Buckle

5th June 2009

For Jack Sealey Ltd. Sole importer into the UK of Sealey Power Products.

The construction file for this product is held by the Manufacturer and may be inspected on request by contacting Jack Sealey Ltd.

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 will be required for any claim.

INFORMATION: For a copy of our catalogue and latest promotions call us on 01284 757525 and leave your full name, address and postcode.



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