



Instructions for: DIGITAL ELECTRONIC TORQUE WRENCH with ANGLE FUNCTION ½" SQ. DRIVE MODEL No: **STW305**

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 torque wrench if damaged or thought to be faulty.
- ✓ Ensure all workshop safety rules, regulations and conditions are complied with when using the torque wrench.
- ✓ 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.
- ✓ Avoid over-torquing the wrench (110% of maximum torque range) as this will cause loss of accuracy.
- ✓ Keep the wrench away from magnets.
- x **DO NOT** use the wrench as a hammer or similar.
- x **DO NOT** subject the wrench to excessive force or shocks.
- x **DO NOT** drop, throw, or violently shake the wrench.
- x **DO NOT** operate the wrench in damp conditions.
- x **DO NOT** operate the wrench in dusty conditions.
- x **DO NOT** push on the LCD panel.
- x **DO NOT** use wrench until first instructed in its use by a qualified person.
- x **DO NOT** leave the wrench in a place exposed to excessive heat, humidity or direct sunlight.
- x **DO NOT** use organic solvents such as alcohol or thinners to clean the wrench.
- ✓ After use, clean with a soft dry cloth, place torque wrench in its storage case, 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. Features angle mode, eliminating the need for angle gauges and protractors providing the most accurate and fastest way to measure torque plus angle tightening sequences. Will also accumulate angle measurement when multiple turns are required, ideal for where access is limited. Preset desired torque levels or track peak and working torques using simple push-button menu. Stores up to 50 readings. Selectable read-out in lb.ft, lb.in Nm or Degrees. Reversible Chrome Vanadium ratchet allows torque reading in either direction. **Accurate to ±2% between 20% and 100% of wrench's stated capacity.** Tested in accordance with BS EN ISO 6789:2003. Supplied with certificate and storage case.

Specification:

Drive: ½" Sq

Overall Length: 530mm

Angle Range: 1° - 360°

Torque Range: 10 - 200Nm (40 - 200Nm)

Torque Range: 7.4 - 147.5lb.ft (29.5 - 147.5lb.ft)

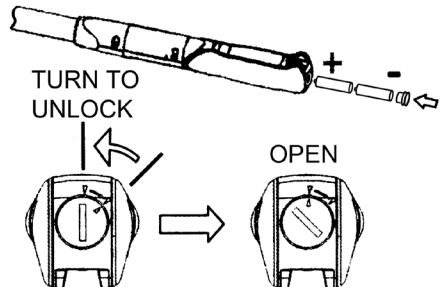
Torque Range: 88 - 1770lb.in (354 - 1770lb.in)

(figures in brackets denote accuracy figures to ±2%)

3. OPERATION

- 3.1. Installing batteries.** Use a coin or large screwdriver to unlock the battery compartment by turning the cap anti-clockwise and removing it. Insert two new AA size batteries (positive end first) into the compartment. Line up the small arrow on the battery cap with the arrow above the compartment aperture. Push the cap flush with the end of the wrench and turn it to the locked position.

Note: If the wrench is not to be used for an extended period, remove the batteries before storage. Do not mix types of battery, or used and new ones. Keep battery terminals clean.

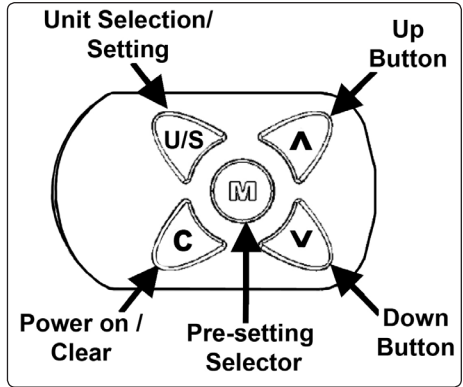


If the battery voltage is low, a battery symbol will be displayed on the screen and soon afterwards, the wrench will turn off. Replace with a new set of batteries.

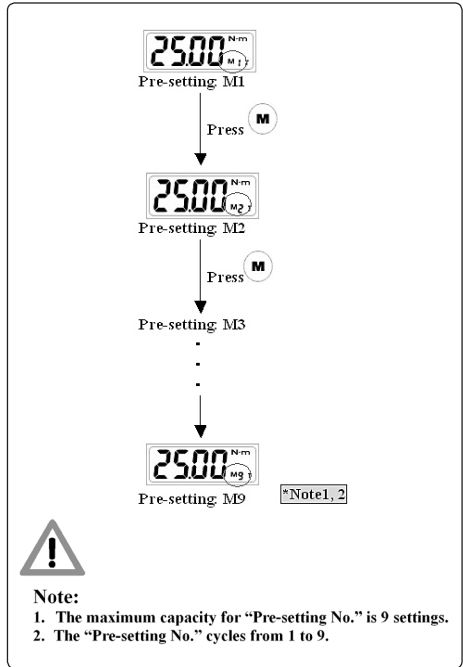
OPERATIONAL OVERVIEW:

Follow the schematics to use the wrench correctly.

- 3.2. **Track Mode:** the torque is preset in the set-up menu. As the wrench applies a turning force, the read-out will show a continually increasing torque figure. When 80% of the preset value is reached, the buzzer sounds intermittently and the green LEDs flash. When the force reaches 99.5% of the preset value, the buzzer sounds continually and the red LEDs are fully lit. If the force applied goes over the stated maximum capacity, the LCD display will flash. NOTE: there is no mechanical 'click' when the wrench reaches the preset torque. As the turning force on the wrench is released the digital readout rolls back down to zero.
- 3.3. **Peak Hold Mode:** the torque is preset in the set-up menu as in Track Mode, use the wrench exactly the same, except that when the force is released, the display stays at the maximum torque that has been applied. This value can then be stored if required (50 memory spaces). As the ratchet is reversible, the wrench can be used on reverse thread fixings and can also be used to show the amount of torque required to undo a nut or bolt.
- 3.4. **Power On:** Place the wrench on a horizontal level surface and press the 'C' button. The wrench will power-on and auto zero re-set. If the wrench is not used for two minutes, it will switch off automatically. Press the 'C' button to power-on the wrench again. If 'Er0' appears on the screen during this process, the wrench has been used at more than 110% of it's maximum torque capacity and this may have caused loss of accuracy and/or the wrench may have been damaged.
- 3.5. **Reset in use.** To reset the wrench to zero before taking the next reading, press the 'C' button. When using Angle Mode, the wrench must be placed on a horizontal surface to re-set it, if it isn't, a series of four zeros will display in the top half of the LCD screen. Place wrench on a horizontal surface and press 'C' again to re-set. In Torque Mode, do not apply any external forces to the ratchet head whilst re-setting.
- 3.6. **Full reset.** If the wrench appears to malfunction, or 'Er5' appears on the screen, remove the battery compartment cover, replace it and press the 'C' button to re-set the wrench.
- 3.7. **Memory full.** If all 50 memories are used, 'full' will appear on the display. It will then be necessary to clear the memory in set up mode.

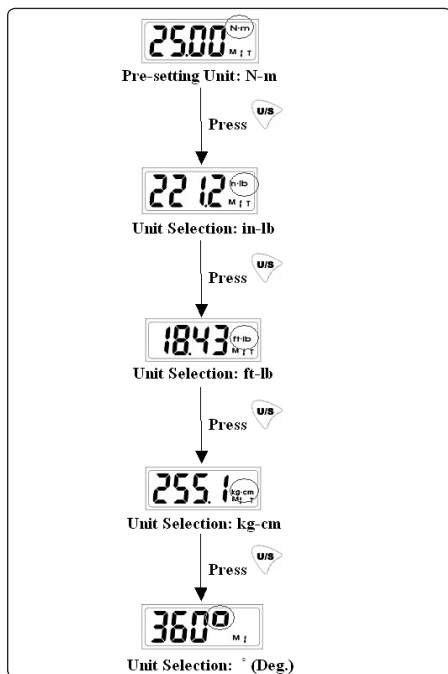


Selecting Pre-set No.

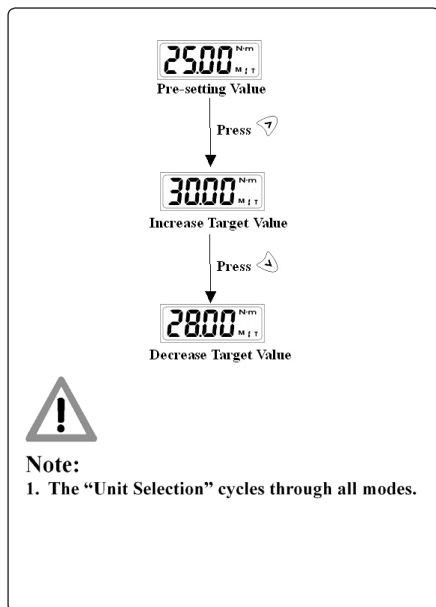


Note:
 1. The maximum capacity for "Pre-setting No." is 9 settings.
 2. The "Pre-setting No." cycles from 1 to 9.

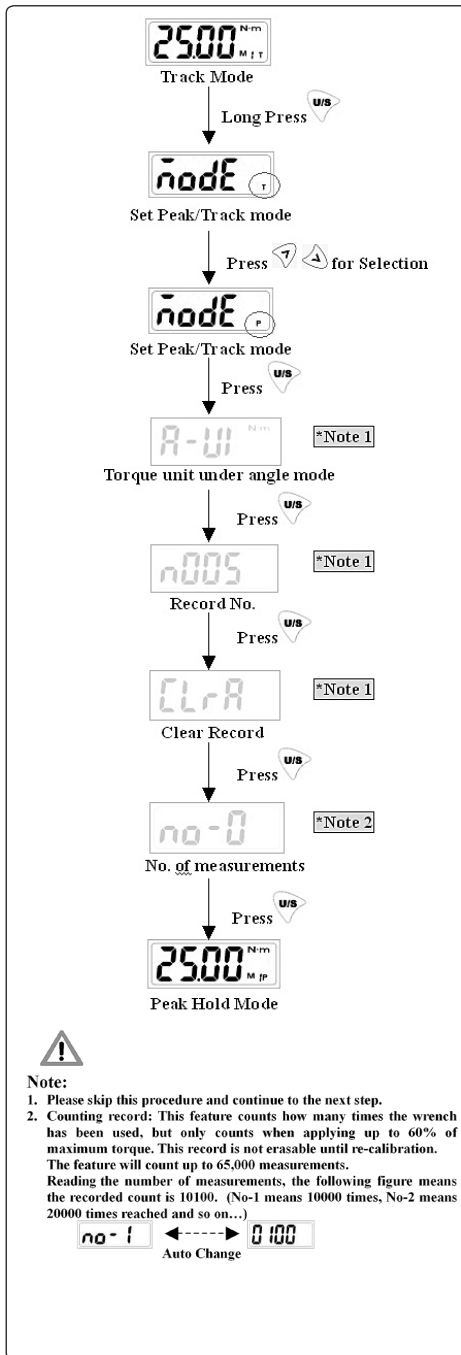
Unit Selection.



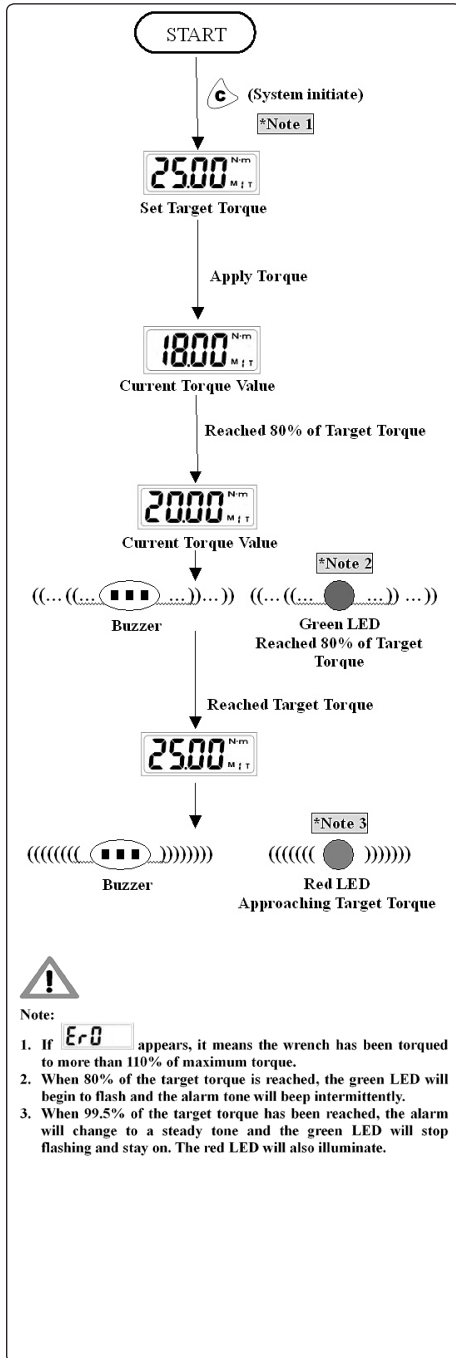
Setting Torque / Angle Value.



Peak Hold / Track Mode Selection.



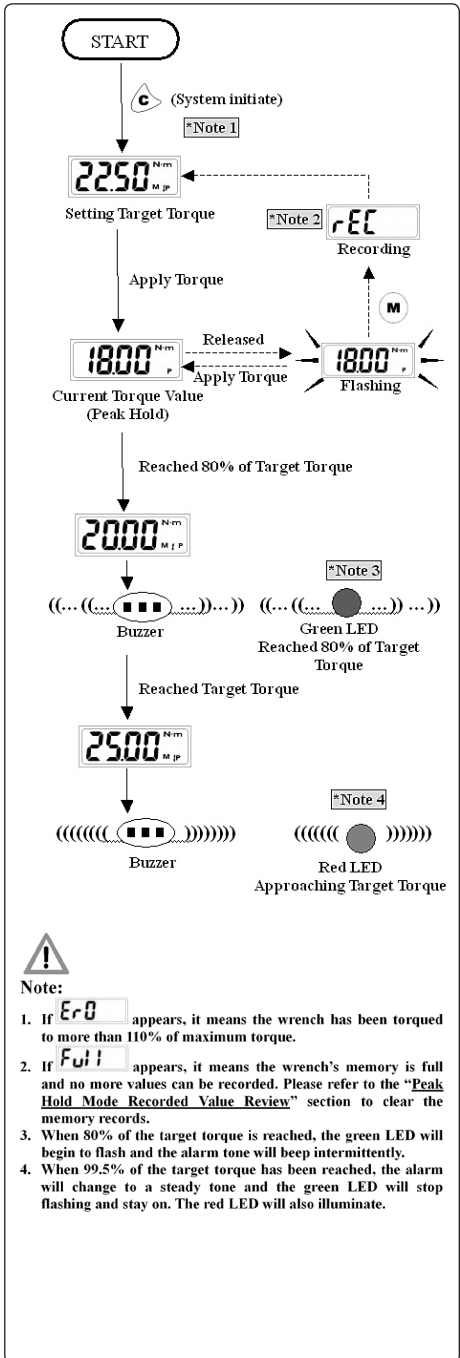
Track Mode Operation.



Note:

1. If **Er0** appears, it means the wrench has been torqued to more than 110% of maximum torque.
2. When 80% of the target torque is reached, the green LED will begin to flash and the alarm tone will beep intermittently.
3. When 99.5% of the target torque has been reached, the alarm will change to a steady tone and the green LED will stop flashing and stay on. The red LED will also illuminate.

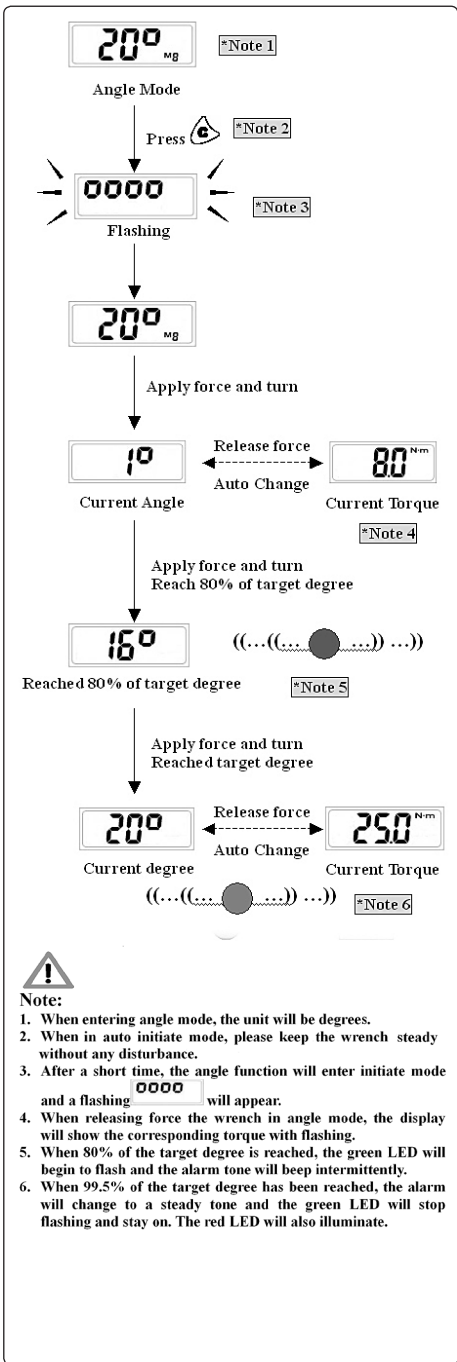
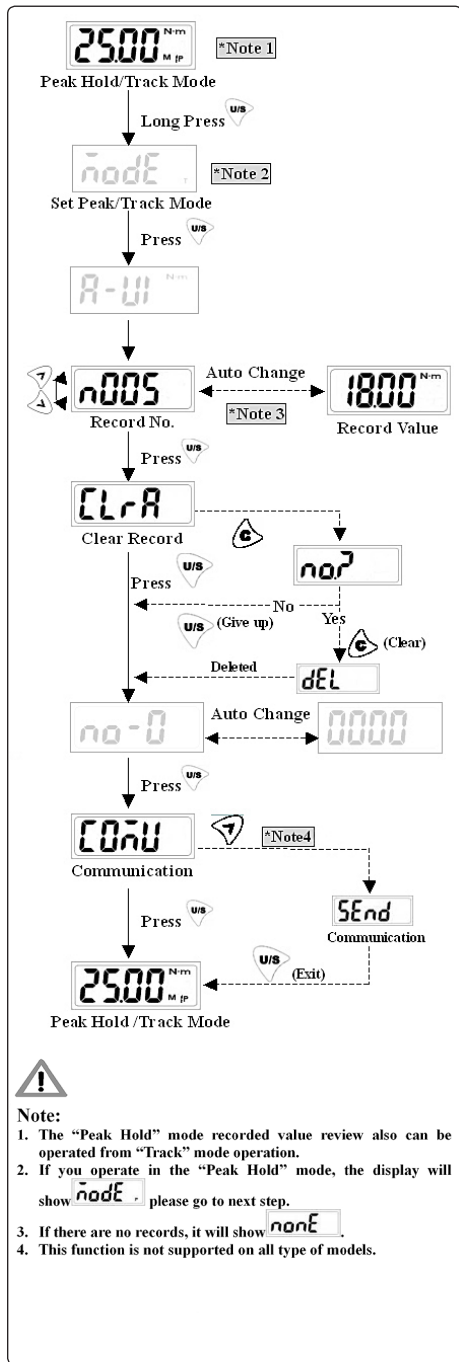
Peak Hold Mode Operation.



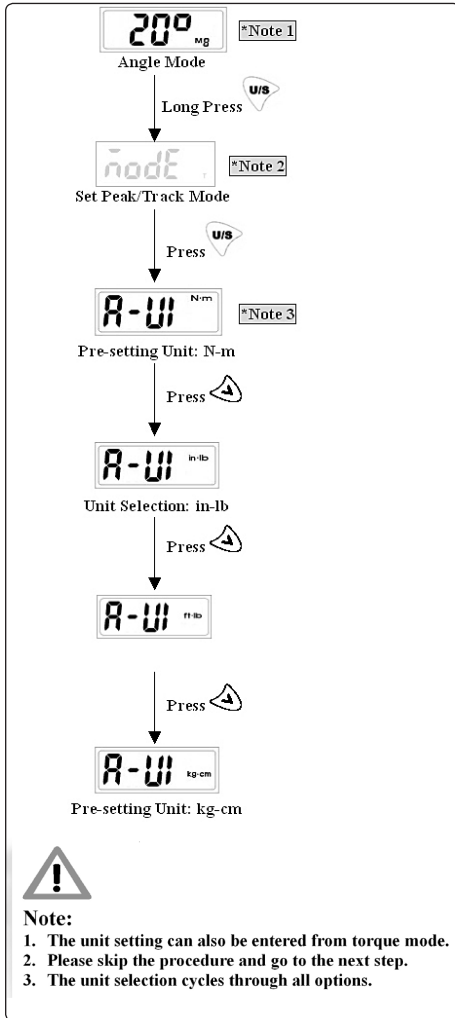
Note:

1. If **Er0** appears, it means the wrench has been torqued to more than 110% of maximum torque.
2. If **FULL** appears, it means the wrench's memory is full and no more values can be recorded. Please refer to the "**Peak Hold Mode Recorded Value Review**" section to clear the memory records.
3. When 80% of the target torque is reached, the green LED will begin to flash and the alarm tone will beep intermittently.
4. When 99.5% of the target torque has been reached, the alarm will change to a steady tone and the green LED will stop flashing and stay on. The red LED will also illuminate.

Peak Hold Mode Recorded Value Review. Angle Mode Operation.



Torque Unit Selection in Angle Mode.



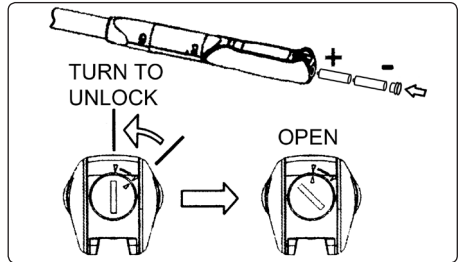
4. RE-CALIBRATION

In order to ensure continued accuracy, the wrench should be re-calibrated annually and also after any impact, over-torquing or other misuse. Contact your authorised Sealey dealer to arrange this.

5. REPAIR KIT

Repair Kit available: Part No. STW305.RK
Contact your authorised Sealey dealer.

6. RECYCLING



Environmental Protection.

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycle centre and disposed of in a manner which is compatible with the environment.

When the product is no longer required, it must be disposed of in an environmentally protective way.

Battery Removal.

Use a coin or large screwdriver to unlock the battery compartment cover by turning it anti-clockwise and removing it. Remove the batteries from the battery compartment. Replace the battery cover.

Dispose of batteries according to local authority guidelines.



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

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



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DIGITAL TORQUE WRENCH CALIBRATION CERTIFICATE

MODEL NO: **STW305**

DATE OF ISSUE:				
DEVICE UNDER TEST:		STW305		
DATE OF CALIBRATION:				
RECOMMENDED TEST INTERVAL:		12 MONTHS		
DEVICE SERIAL NUMBER:				
CONDITIONS OF CALIBRATION: TEMPERATURE: 20°C				
RELATIVE HUMIDITY: 55%				
CALIBRATION EQUIPMENT EMPLOYED:				
TESTERS NAME/SIGNATURE:				
READINGS FOR THE DEVICE:				
APPLIED→ TORQUE	N-m	DEVICE READINGS	ERROR	ERROR %
CLOCKWISE	40			
	120			
	200			
ANTICLOCKWISE	40			
	120			
	200			

At the point of manufacture the accuracy clockwise was within $\pm 1\%$. The accuracy anticlockwise was within $\pm 2\%$. The stated accuracy was only guaranteed between 20% and 100% of the maximum range. If the torque wrench has been damaged or mis-used by the owner since purchase, the accuracy cannot be guaranteed.

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