CALIBRATED MICROMETER TORQUE WRENCHES WITH PUSH THROUGH DRIVE

MODELS: **STW921, STW922, STW923, STW924, STW925, STW926, STW920SET**

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.

1. SAFETY

- ✓ Ensure all workshop safety rules, regulations, and conditions are complied with when using torque wrench.
- ✓ Maintain the wrench in good condition and replace any damaged or worn parts. Use genuine parts only. Non-authorised parts may be dangerous and will invalidate the warranty.
- ✓ The wrench is a precision tool, **DO NOT** 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 wrench if damaged or thought to be faulty. (Contact Service Agent).
- × **DO NOT** drop or throw the wrench.
- × **DO NOT** use wrench unless you have been instructed in its use by a qualified person.
- × **DO NOT** use any cleaner which might affect the high pressure grease with which the wrench is packed.
- ✓ After use adjust to lowest torque setting (but not below),clean and store in a safe, dry, childproof location.

2. INTRODUCTION

Chrome Vanadium steel 30 tooth ratchet head with a capped pin featuring quick socket release. Features push-through drive to allow accurate torquing in both directions. Easy-to-read large window scale graduated in Nm and lb.ft. Wrenches are individually tested to standards with ±4% accuracy and each wrench is issued with an individually numbered test certificate. Ergonomic soft grip handle for comfort and control. Supplied in an EVA storage tray.

Model	STW921	STW922	STW923	STW924	STW925	STW926
Torque Range (Nm)	5-25	10-50	20-100	40-200	60-320	80-420
Alternative Scale	3.7-18.4 lb-ft	7.4-36.9 lb-ft	14.8-73.8 lb-ft	29.5-147.5 lb-ft	44.3-236.0 lb-ft	59.0-309.8 lb-ft
Drive (sq)	1/4”	3/8”	3/8”	1/2”	1/2”	1/2”
Length (mm)	240	288	410	490	548	548
Model STW920SET: 3pc Set consisting of: STW921, STW923 & STW925						

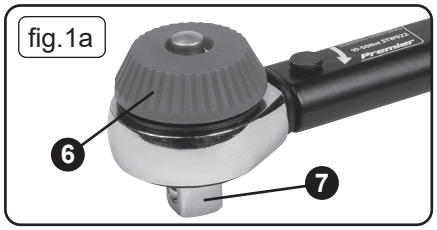
3. FEATURES IDENTIFICATION

fig.1

Model shown: STW922

1	Hand Grip	5	Socket Release Button
2	Torque Adjuster Locking Collar	6	Drive Assembly
3	Shaft Scale Nm	7	Square Drive
4	Units Indicator Nm	8	Drive Direction Indicators

fig.1a



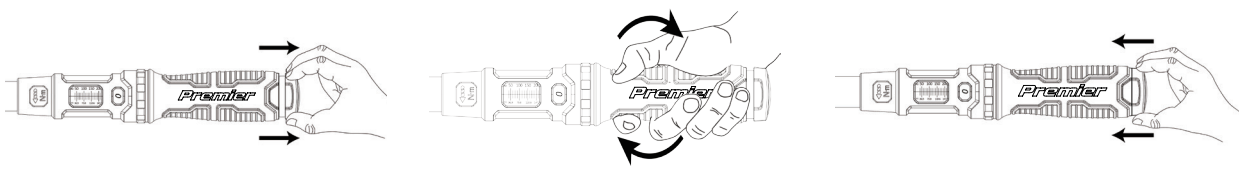
Original Language Version

4. OPERATION

4.1. PREPARING TO SET TORQUE (fig.2)

4.1.1. Hold torque wrench so that the scale windows - on shaft, just above hand grip - are uppermost and visible.

4.1.2. Release torque adjuster by sliding the collar backwards. Set torque (see fig.3) and then lock in place by sliding the collar forwards.



Unlock adjuster | Set torque | Lock adjuster

fig.2

4.2. SETTING TORQUE VALUE (fig.2, fig.3)

60Nm | 52Nm

fig.3

4.2.1. With the adjuster unlocked (fig.2), rotate the handle to reach the desired main scale value i.e. 60Nm (fig.3) aligned with units indicator showing '0'.

4.2.2. To set the torque to more discrete values i.e. 52Nm (fig.3) align main scale to '50' and then rotate until unit indicator shows '2'.

4.2.3. Once the torque value is set, slide the locking collar forwards to lock the torque value.

NOTE: If the wrench has not been used for some time, operate it a few times, at a low setting, to ensure all internal parts are coated in grease.

4.3. PUSH-THROUGH DRIVE ADJUSTMENT (see fig.4)

4.3.1. Push and hold socket release button on drive head to reveal the release pin (fig.4a).

4.3.2. Continue to hold socket release button and push against the square drive (not the centre release pin) (fig.4b).

4.3.3. Pull out the drive assembly from the drive head whilst continuing the press the socket release button (fig.4c).

4.3.4. Press and hold the socket release button to insert the drive assembly into the opposite side of the drive head (fig.4d).

fig.4a

fig.4b

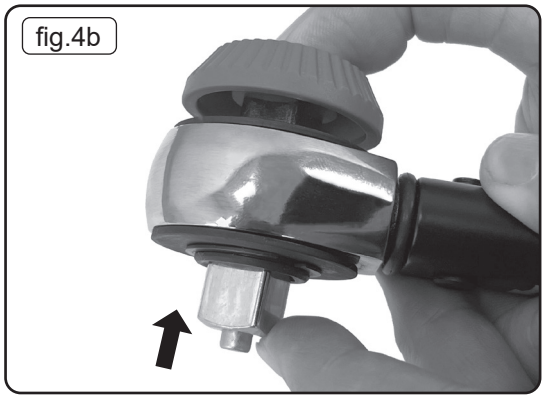


fig.4c

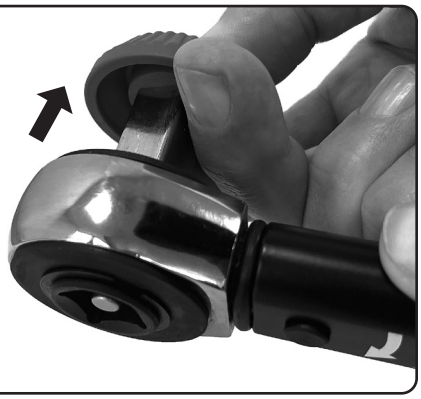
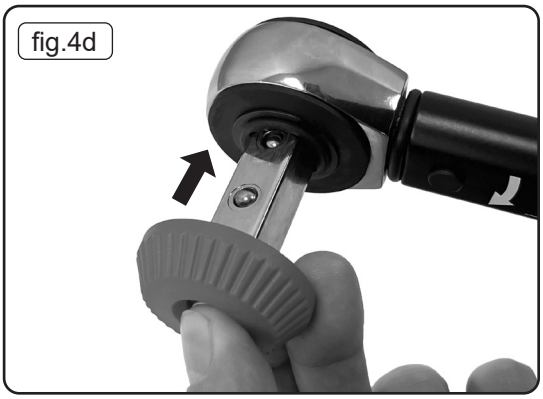


fig.4d



5. RE-CALIBRATION

5.1. Unless otherwise stipulated, and to ensure continued accuracy of the torque tool, a period of 12 months, or 5,000 cycles (whichever occurs first), may be taken as default values for the interval between calibration checks. This calibration check should also be carried out if the torque tool has been subjected to an impact, has been misused, or the readings are suspect. Jack Sealey Ltd have up-to-date calibration checking equipment, certified to international standards, to carry out this service.

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.

REGISTER YOUR PURCHASE HERE

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: Lifetime guarantee. Proof of which is required for any claim.

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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:	5	Clockwise					
	Max torque:	25						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
5	4.80	5.20						
15	14.40	15.60						
25	24.00	26.00						

2	Min Torque:	5	Anti-clockwise					
	Max torque:	25	(This part 2 to be completed only where applicable)					
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
5	4.80	5.20						
15	14.40	15.60						
25	24.00	26.00						

Tool Model Number	STW921
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).

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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:	10	Clockwise					
	Max torque:	50						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
10	9.60	10.40						
30	28.80	31.20						
50	48.00	52.00						

2	Min Torque:	10	Anti-clockwise					
	Max torque:	50	(This part 2 to be completed only where applicable)					
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
10	9.60	10.40						
30	28.80	31.20						
50	48.00	52.00						

Tool Model Number	STW922
Tool Serial Number	
Tested by (print name)	
Date of test[4]	

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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:	20	Clockwise					
	Max torque:	100						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
20	19.20	20.80						
60	57.60	62.40						
100	96.00	104.00						

2	Min Torque:	20	Anti-clockwise					
	Max torque:	100	(This part 2 to be completed only where applicable)					
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
20	19.20	20.80						
60	57.60	62.40						
100	96.00	104.00						

Tool Model Number	STW923
Tool Serial Number	
Tested by (print name)	
Date of test[4]	

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[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.

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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:	40	Clockwise					
	Max torque:	200						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
40	38.40	41.60						
120	115.20	124.80						
200	192.00	208.00						

2	Min Torque:	40	Anti-clockwise					
	Max torque:	200	(This part 2 to be completed only where applicable)					
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
40	38.40	41.60						
120	115.20	124.80						
200	192.00	208.00						

Tool Model Number	STW924
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).

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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:	60	Clockwise					
	Max torque:	320						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
64	61.44	66.56						
192	184.32	199.68						
320	307.20	332.80						

2	Min Torque:	60	Anti-clockwise					
	Max torque:	320	(This part 2 to be completed only where applicable)					
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
64	61.44	66.56						
192	184.32	199.68						
320	307.20	332.80						

Tool Model Number	STW925
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).

TORQUE TOOL CALIBRATION CERTIFICATE

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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:	80	Clockwise					
	Max torque:	420						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
84	80.64	87.36						
252	241.92	262.08						
420	403.20	436.80						

2	Min Torque:	80	Anti-clockwise					
	Max torque:	420	(This part 2 to be completed only where applicable)					
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
84	80.64	87.36						
252	241.92	262.08						
420	403.20	436.80						

Tool Model Number	STW926
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.

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