



INSTRUCTION MANUAL FOR: TORQUE WRENCHES MICROMETER STYLE

Model No's: **STW701, STW702, STW703 & STW706**

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

- X 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. Unauthorised parts may be dangerous and will invalidate the warranty.*
- X The wrench is a precision tool, **DO NOT** abuse it. **DO NOT** drop or throw the wrench.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ☐ **WARNING! DO NOT** use the wrench if damaged or thought to be faulty (contact Service Agent).
- X **DO NOT** use wrench unless you have been instructed in its use by a qualified person.
- X **DO NOT** use any cleaner which might affect the high pressure grease with which the wrench is packed.
- X **DO NOT** apply more torque than the maximum scale reading.
- ✓ After use adjust to lowest torque setting (but not below), clean and store in a safe, dry, childproof location.

2. INTRODUCTION & SPECIFICATIONS

2.1. Introduction

Manufactured from hardened and tempered Chrome Vanadium steel with a polished satin finish. Smooth action ratchet head with flip reverse. Easy to use torque adjustment locks when required setting is selected. Calibration tolerance in accordance with BS EN ISO 6789:2003. Scales graduated in both Nm and lb.in/lb.ft. Wrenches are individually tested to standards with ±4% accuracy and each wrench is issued with an individually numbered test certificate. Supplied in storage case.

2.2. Specifications

Model	STW701	STW702	STW703	STW706
Torque Range (Nm)	4-20	20-100	40-200	150-800
Alternative Scale	2.94-14.75lb.ft	14.75-73.76lb.ft	29.5-147.52lb.ft	110.64-588.23lb.ft
Drive (sq.)	1/4"	3/8"	1/2"	3/4"
Length (mm)	340	440	610	1230

3. OPERATION

- 3.1. Hold torque wrench so that required scale - on shaft, just above hand grip - is uppermost and visible.
- 3.2. Pull down the locking ring to unlock the hand grip.
- 3.3. Turn hand grip to select torque setting as follows:
 - 3.3.1. Required setting - 56Nm
 - 3.3.2. Hold back the locking ring and turn hand grip until top edge is level with the 55Nm line on the shaft scale and the 'zero' on the hand grip graduation is aligned with the centre line of the shaft scale.
 - 3.3.3. Rotate the grip further, clockwise, until the '1' on the hand grip graduation is aligned with the centre line to give a setting of 55 + 1 = 56Nm.
- 3.4. Release the locking ring to prevent accidental alteration of the setting.
- 3.5. When tightening the nut/bolt you will feel and hear the wrench mechanism click when the set torque is reached. Immediately stop applying force to wrench to avoid over-tightening the nut/bolt. Wrench will reset ready for the next application.

Note: If wrench is not used for some while, operate it a few times, at a low setting, to ensure all internal parts are coated in grease.

4. RECALIBRATION

- 4.1. To ensure continued accuracy the wrench should be recalibrated annually and after any impact or other misuse. Contact an NAMAS accredited laboratory.

5. CALIBRATION CERTIFICATE

- 5.1. See over page for wrench calibration certificate.

Pounds Feet (lb.ft)	Kilogram Meters (kgm)	Newton Meters (Nm)	Newton Meters (Nm)	Pounds Feet (lb.ft)	Kilogram Meters (kgm)	Kilogram Meters (kgm)	Newton Meters (Nm)	Pounds Feet (lb.ft)
5	0.69	6.78	10	7.38	1.02	1	9.81	7.23
10	1.38	13.56	20	14.75	2.04	2	19.61	14.47
15	2.07	20.34	30	22.13	3.06	3	29.43	21.70
20	2.76	27.12	40	29.50	4.08	4	39.23	28.93
25	3.46	33.90	50	36.88	5.10	5	49.04	36.17
30	4.15	40.68	60	44.26	6.12	6	58.84	43.40
35	4.84	47.46	70	51.63	7.14	7	68.65	50.63
40	5.53	54.24	80	59.01	8.16	8	78.46	47.87
45	6.22	61.02	90	66.38	9.18	9	88.26	65.10
50	6.91	67.80	100	73.76	10.20	10	98.07	72.33
55	7.60	74.58	110	81.14	11.22	11	107.88	79.57
60	8.29	81.36	120	88.51	12.24	12	117.68	86.80
65	8.98	88.14	130	95.89	13.26	13	127.49	94.03
70	9.67	94.92	140	103.26	14.28	14	137.30	101.27
75	10.37	101.70	150	110.64	15.30	15	147.11	108.50
80	11.06	108.48	160	118.02	16.32	16	156.91	115.74
85	11.75	115.26	170	125.39	17.34	17	166.72	122.97
90	12.44	122.04	180	132.77	18.36	18	176.53	130.20
95	13.13	128.82	190	140.14	19.38	19	186.33	137.43
100	13.82	135.60	200	147.52	20.40	20	196.14	144.67
105	14.51	142.38	210	154.90	21.42	21	205.95	151.90
110	15.20	149.16	220	162.27	22.44	22	215.75	159.13
115	15.89	155.94	230	169.65	23.46	23	225.57	166.37
120	16.58	162.72	240	177.02	24.48	24	235.37	173.60
125	17.28	169.50	250	184.40	25.50	25	245.18	180.84
130	17.97	176.28	260	191.78	26.52	26	254.98	188.08
135	18.66	183.06	270	199.15	27.54	27	264.79	195.30
140	19.35	189.84	280	206.53	28.56	28	274.60	202.54
145	20.04	196.62	290	213.91	29.58	29	284.41	209.77
150	20.73	203.40	300	221.29	30.60	30	294.22	217.00
155	21.42	210.18	310	228.67	31.62	31	304.03	224.23
160	22.11	216.96	320	236.05	32.64	32	313.84	231.46
165	22.80	223.74	330	243.43	33.66	33	323.65	238.69
170	23.49	230.52	340	250.81	34.68	34	333.46	245.92
175	24.19	237.30	350	258.19	35.70	35	343.27	253.15
180	24.88	244.08	360	265.58	36.72	36	353.08	260.38
185	25.57	250.86	370	272.96	37.74	37	362.89	267.61
190	26.26	257.64	380	280.34	38.76	38	372.70	274.84
195	26.95	264.42	390	287.72	39.78	39	382.51	282.07
200	27.64	271.20	400	295.10	40.80	40	392.32	289.30
205	28.33	277.98	410	302.48	41.82	41	402.13	296.53
210	29.02	284.76						
215	29.71	291.54						
220	30.40	298.32						
225	31.09	305.10						
230	31.78	311.88						
235	32.47	318.66						
240	33.16	325.44						
245	33.85	332.22						
250	34.54	339.00						
260	35.88	352.56						
270	37.26	366.12						
280	38.64	379.68						
290	40.02	393.24						
300	41.40	406.80						

**TORQUE WRENCH
UNITS OF MEASUREMENT
CONVERSION
TABLES**

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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TORQUE WRENCH CALIBRATION CERTIFICATE

Model Nos: STW701, STW702, STW703 & STW706

Serial Number & Certificate Number	
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Test Machine Serial Number	
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Tested By		Date	
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Model No			Tolerance $\pm 4\%$ of Test Load		
STW701	Test %	Test Load Nm	Minimum	Maximum	Test Reading Nm
Minimum	125%	25			Completed
4	20%	4	3.84	4.16	
Maximum	60%	12	11.52	12.48	
20	100%	20	19.2	20.8	

Model No			Tolerance $\pm 4\%$ of Test Load		
STW702	Test %	Test Load Nm	Minimum	Maximum	Test Reading Nm
Minimum	125%	125			Completed
20	20%	20	19.2	20.8	
Maximum	60%	60	57.6	62.4	
100	100%	100	96	104	

Model No			Tolerance $\pm 4\%$ of Test Load		
STW703	Test %	Test Load Nm	Minimum	Maximum	Test Reading Nm
Minimum	125%	250			Completed
40	20%	40	38.4	41.6	
Maximum	60%	120	115.2	124.8	
200	100%	200	192	208	

Model No			Tolerance $\pm 4\%$ of Test Load		
STW706	Test %	Test Load Nm	Minimum	Maximum	Test Reading Nm
Minimum	125%	1000			Completed
150	20%	160	153.6	166.4	
Maximum	60%	480	460.8	499.2	
800	100%	800	768	832	

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