



INSTRUCTIONS FOR: MICROMETER STYLE **TORQUE WRENCHES** STW502 & STW503

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.

Models:

SAFETY INSTRUCTIONS

- 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.
- 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).
- 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.

IMPORTANT: No liability is accepted for incorrect use of this equipment. **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.

INTRODUCTION & SPECIFICATIONS

2.1. Introduction

These torque wrenches are precision tools and each is supplied with a calibration certificate. Torque setting is by means of a micrometer type adjuster and the drive head has a reversible ratchet.

2.2. Specifications

STW502	STW503
Torque Range (lb.ft) 10-100	
Drive (sq)	



3. OPERATION

- 3.1. Hold torque wrench in left hand (if right handed) so that the scale - on shaft, just above hand grip - is uppermost and visible
- 3.2. Release the locking mechanism, in the end of the grip, by pulling the locking plug (Fig 1) out until it clicks.
- 3.3. Turn grip to select torque setting, as in the following example:
 - · Required setting 56lb.ft
 - Turn grip until the red indicator line is level with the 50lb.ft line on the scale and the 'zero' on the grip graduation is aligned with the centre line arrow of the scale.
 - Rotate the grip further, clockwise, until the '6' on the grip graduation is aligned with the centre line arrow to give a setting of 50 + 6 = 56lb.ft.
- 3.4. Push the locking plug back into end of handle until it clicks home, 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.

RECALIBRATION

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

See over for the Calibration Certificate for this wrench

Pounds	Kilogram	Newton	Newton	Pounds	Kilogram	Kilogram	Newton	Pounds
Feet	Metres	Metres	Metres	Feet	Metres	Metres	Metres	Feet
(lb.ft)	(kgm)	(Nm)	(Nm)	(lb.ft)	(kgm)	(kgm)	(Nm)	(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, 42	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	35. 17
30	4.15	40. 58	60	44. 26	5.12	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. 45	47, <u>87</u>
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	1.30	95. 89	13. 26	13	127. 49	94. 03
70	9. 57	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, 25	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	195.14	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. 37	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	18.56	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. 70	350	258. 30	35. 70	35	343. 35	253.05
180	24, 88	244. 08	360	265. 68	36. 72	36	353.16	260. 28
185	25. 57	250, 86	370	273. 06	37. 74	37	362, 97	267, 51
190	26. 25	257. 64	380	280.44	38. 76	38	372. 78	274.74
195	26, 59	254. 42	390	287. 82	39. 78	39	382, 59	281.97
200	27. 64	271. 20	400	295, 20	40. 80	40	392.40	289, 20
205	28. 33	277. 98	410	302.58	41.82	41	402. 21	296.43
210	29. 02	284. 76						
215	29 71	291.54		ONVERSIO	N FORM	II A C		

CALIBRATION CERTIFICATE

CONVERSION FORMULAS 1 CMKG = 13.887 IN-OZ 1dNm=14.161fN+OZ 1CMKG= .08677 IN-LB 1Nm = 8.8507IN-0Z 1 MKG = 7.233 FT - LB 1Nm = .73756 FT-LB $1K_DCM = 1 CMKG$ 1KpM=1MKG 1CMKG = 0.98 Nm 1MKG=9.80665 Nm

1 FT/LB=12 INCH POUNDS.

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.

35.88

40, 02 41, 40

225

235 240

260

270 280



Sole UK Distributor,

Sealey Group, Bury St. Edmunds, Suffolk.

a 01284 757500

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311.88

339 352, 56

366, 12 379. 68 393. 24



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TORQUE WRENCH CALIBRATION CERTIFICATE

TOOLS Models: STW502 & STW503

Serial Number & Certificate Number	
Test Machine Serial Number	_

Tested By		Date	

Model No			Tolerance ±4°	% of Test Load	
STW502	Test %	Test Load lb.ft	Minimum Maximum		Test Reading lb.ft
Minimum	125%	125			Completed
10	20%	20	19.2	20.8	
Maximum	60%	60	57.6	62.4	
100	100%	100	96	104	

Model No			Tolerance ±4	1	
STW503	Test %	Test Load lb.ft	Minimum	Maximum	Test Reading lb.ft
Minimum	125%	187.5			Completed
30	20%	30	28.8	31.2	
Maximum	60%	90	86.4	93.6	
150	100%	150	144	156	

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