TORQUE WRENCHES

MODELS: **AK223, AK224, AK228**

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.

Refer to instruction manual

1. SAFETY

- ✓ Ensure all workshop safety rules, regulations and conditions are complied with when using the 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.
- ✓ 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 it is packed.
- ✓ After use adjust to lowest torque setting (but not below),clean and store in a safe, dry, childproof location.

2. INTRODUCTION

Heat treated steel ratchet head. Fully hardened and tempered. Chrome plated for corrosion resistance. Calibration tolerance in accordance with BS EN ISO 6789:2003. Micrometer type torque range adjustment with scale graduated in both Nm and lb.ft. Flip reverse ratchet mechanism. Supplied in storage case.

3. SPECIFICATION

Model no	AK223
Drive	3/8” sq.
Length	275mm
Range	27-108Nm (20-80lb.ft)

Model no	AK224
Drive	1/2” sq.
Length	465mm
Range	27-204Nm (20-150lb.ft)

Model no	AK228
Drive	3/4” sq.
Length	660mm
Range	68-407Nm (50-300lb.ft)

4. OPERATION

4.1. Hold torque wrench in left hand (if right handed) so that required scale - foot. pounds or Newton. metres - is uppermost and visible.

4.2. Turn knurled lock screw at end of handle anticlockwise to unlock knurled adjusting grip.

4.3. Turn adjusting grip to select torque setting as follows, for a required setting of 56ft.lb:
Turn grip until top edge of grip is level with the 50ft.lb line on the handle scale and the zero graduation on the grip is aligned with the centre line of the handle scale.
Rotate handle further, clockwise, until ‘6th’ graduation on grip is aligned with centre line to give a setting of 50 + 6 = 56ft.lb.
NOTE: If using the ‘N.m’ scale then each division on the grip graduation is equivalent to 1.36N.m.
Therefore to set wrench at 76N.m:
Turn grip until top edge of grip is level with the 67.8N.m line on the handle scale and the zero graduation on the grip is aligned with the centre line of the handle scale.
Rotate the handle further, clockwise, until the ‘6th’ graduation on the grip is aligned with the centre line to give a setting of 67.8 + (6 x 1.36) = 67.8 + 8.2 = 76N.m.

4.4. Tighten lock screw at end of handle to prevent accidental alteration of the setting.

4.5. 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 overtightening nut/bolt. Wrench will reset ready for next application.
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.

5. RECALIBRATION

5.1. CALIBRATION CHECK

We recommend to ensure continued accuracy the calibration of each wrench should be checked annually, beginning one year after first use. Calibration should also be checked after any impact, over-torquing or other misuse. Contact your Sealey stockist to arrange recalibration.

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.

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: This product comes with a lifetime guarantee against manufacturing defects.

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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:	27	Clockwise					
	Max torque:	108						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
21.6	20.74	22.46						
64.8	62.21	67.39						
108	103.68	112.32						

2	Min Torque:		Anti-clockwise (This part 2 to be completed only where applicable)					
	Max torque:							
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
0	0.00	0.00						
0	0.00	0.00						
0	0.00	0.00						

Tool Model Number	AK223
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 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:	27	Clockwise					
	Max torque:	204						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
40.8	39.17	42.43						
122.4	117.50	127.30						
204	195.84	212.16						

2	Min Torque:		Anti-clockwise (This part 2 to be completed only where applicable)					
	Max torque:							
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
0	0.00	0.00						
0	0.00	0.00						
0	0.00	0.00						

Tool Model Number	AK224
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.

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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:	68	Clockwise					
	Max torque:	407						
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
81.4	78.14	84.66						
244.2	234.43	253.97						
407	390.72	423.28						

2	Min Torque:		Anti-clockwise (This part 2 to be completed only where applicable)					
	Max torque:							
Target Torque N.m	Maximum Permissible Deviation (± 4 %) N.m		Completed test reading[3]					
	Min	Max	1	2	3	4	5	Average
0	0.00	0.00						
0	0.00	0.00						
0	0.00	0.00						

Tool Model Number	AK228
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.

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