



# MICROMETER TORQUE WRENCH 3/8"SQ DRIVE CALIBRATED BLACK SERIES

MODEL NO: **AK623B**

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 instructions

## 1. SAFETY

- ✓ Ensure all workshop safety rules, regulations, and conditions are complied with when using this torque wrench.
- ✓ Maintain the wrench in good condition and replace any damaged or worn parts. Use genuine parts only. Non-authorized parts may be dangerous and will invalidate the warranty.
- ✗ **DO NOT** abuse the wrench it is a precision tool.
- ✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorized 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 this 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. Electrodeposition finish for corrosion resistance. Calibration tolerance in accordance with BS EN ISO 6789-1:2017. Every wrench is tested and supplied with an individually numbered test certificate. Micrometer type torque range adjustment with scale graduated in both Nm and lb.ft. Flip reverse ratchet mechanism. Supplied in storage case.

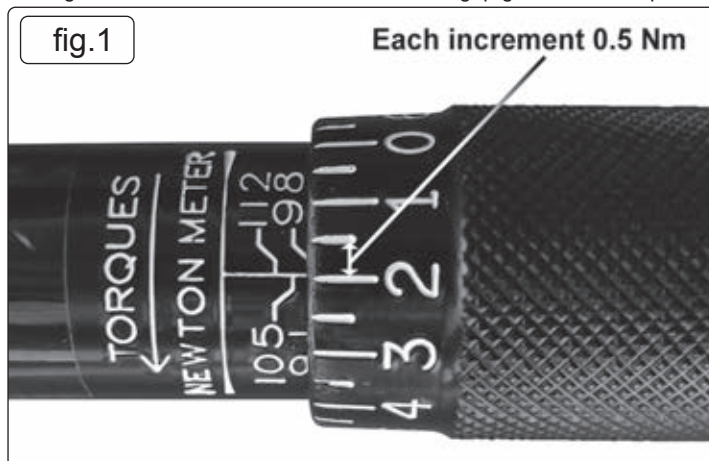
## 3. SPECIFICATION

Model No..... **AK623B**  
 Drive ..... 3/8" Sq  
 Length ..... 365mm  
 Range ..... 7-112Nm(5-83lb.ft)

## 4. OPERATION

- 4.1. Hold torque wrench in one hand so that required scale (lb.ft or Nm) is uppermost and visible.
- 4.2. Turn knurled lock screw at the end of the handle anticlockwise to unlock the knurled adjusting grip.
- 4.3. **SETTING THE WRENCH IN NEWTONS**
  - 4.3.1. Therefore to set the wrench at 100Nm:
  - 4.3.2. Turn the grip until the top edge of the grip is level with the 98Nm line on the handle scale and the zero graduation on the grip is aligned with the centre line of the handle scale.
  - 4.3.3. Rotate the handle further, clockwise, until the '2' graduation on the grip is aligned with the centre line to give a setting of 98+2=100Nm.
  - 4.3.4. Tighten the knurled lock screw at the end of the handle to prevent accidental alteration of the setting.
- 4.4. 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 the wrench to avoid over tightening the nut/bolt. The torque wrench will reset ready for the next application.

**NOTE:** If using the Nm scale then each division on the grip graduation is equivalent to 0.5Nm (fig.1).



#### 4.5. SETTING THE WRENCH IN POUND FEET

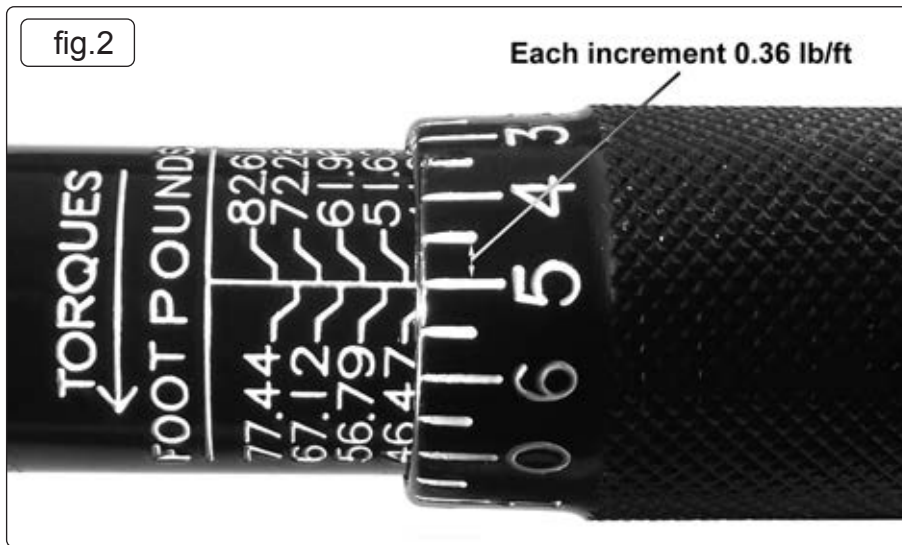
4.5.1. Turn the adjusting grip to select the torque setting as follows:

4.5.2. Required setting - 50lb.ft

4.5.3. Turn the grip until the top edge of the grip is level with the 46.47lb.ft line on the handle scale and the zero graduation on the grip is aligned with the centre line of the handle scale.

4.5.4. Rotate the handle further, clockwise, by 10 increments until the '5' graduation on the grip is aligned with the centre line to give a setting of  $46.47 + (10 \text{ increments} \times 0.36) = 50.07\text{lb.ft}$ .

**NOTE:** If the torque 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. In order to ensure continued accuracy, the torque wrench should be recalibrated annually and after any impact or other misuse. Contact a NAMAS accredited laboratory.



# TORQUE TOOL CALIBRATION CERTIFICATE

**Declaration of Conformance**  
(in accordance with BS EN ISO 6789-1:2017)<sup>1</sup>

Test machine type/name	TORQUE TESTER
Test machine serial No.	4266
Test machine calibration date	2020/6/20
Measurement error <sup>2</sup>	±1%

Measurement uncertainty	0.031kgf.m
Ambient temperature	30 °C
Humidity	59 %
Test units: (Nm, lb/ft etc)	Nm

<b>1</b>		Min Torque:	7	<b>Clockwise</b>					
		Max torque:	112						
Test %	Test Load	Tolerance ± 4 % of Test Load		Completed test reading <sup>3</sup>					
		Min	Max	1	2	3	4	5	Average
20%	22.4	21.50	23.30						
60%	67.2	64.51	69.89						
100%	112	107.52	116.48						

<b>2</b>		Min Torque:		<b>Anti-clockwise</b> (This part 2 to be completed only where applicable)					
		Max torque:							
Test %	Test Load	Tolerance ± 4 % of Test Load		Completed test reading <sup>3</sup>					
		Min	Max	1	2	3	4	5	Average
20%	0	0.00	0.00						
60%	0	0.00	0.00						
100%	0	0.00	0.00						

Tool Model Number	AK623B
Tool Serial Number	
Tested by (print name)	John Li
Date of test <sup>4</sup>	

- Notes:**
- <sup>1</sup> Testing is in compliance with International Standard procedures with test equipment calibrated by a laboratory traceable to International Standards.
  - <sup>2</sup> Measurement error shall be less than ¼ of the maximum permissible relative deviation of the torque tool.
  - <sup>3</sup> 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.
  - <sup>4</sup> 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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**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:** Lifetime guarantee from purchase date, proof of which is required for any claim.

**Sealey Group, Kempson Way, Suffolk Business Park, Bury St Edmunds, Suffolk. IP32 7AR**

**01284 757500**
**01284 703534**
**sales@sealey.co.uk**
**www.sealey.co.uk**