KINCROME
PROFESSIONAL QUALITY TOOLS

MICROMETER TORQUE WRENCH

DUAL SCALE

PROTECTIVE BLOW MOULD CASE

+/- 4% ACCURACY

3WAY SIGNAL SOUND SIGHT & 'FEEL'

MTW80F MTW150F MTW200I

ED3 SEPTEMBER 2019

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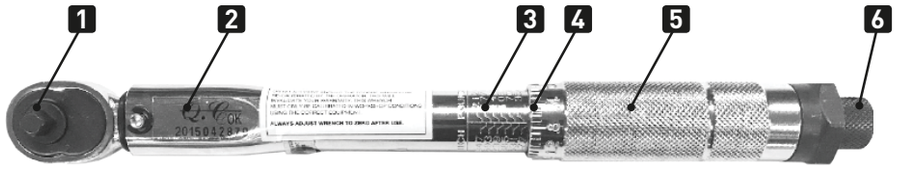
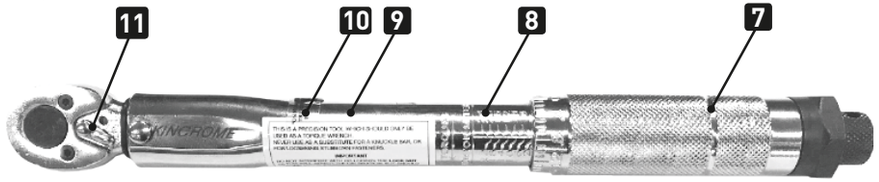
Know Your Product

FRONT



BACK



1. Square Socket Drive
2. Serial Number
3. Inch/Pound Scale | Foot/Pound Scale (MTW200I, MTW150F, MTW80F)
4. Fine Scale
5. Knurled Handle
6. Torque Setting Lock Knob
7. Centre Line Grip
8. N/m Scale
9. Warning/Information Label
10. Calibration Plug & Security Seal
11. Forward / Reverse Lever

NOTE: ONLY MEASURE TORQ IN CLOCKWISE DIRECTION

SPECIFICATIONS

	MTW150F	MTW80F	MTW200I
Drive Size:	1/2" Square Drive	3/8" Square Drive	1/4" Square Drive
Torque Range:	10-150 Ft/Lb	5-80 Ft/Lb	17.7-212.4 In/Lb
	13.6-203.5 Nm	6.8 - 108.5 Nm	2-24 Nm
Accuracy:	+/- 4% of Setting*	+/- 4% of Setting*	+/- 4% of Setting*
Tool Length:	460mm	375mm	275mm
Weight:	1.8kg	0.97kg	0.26kg

***This torque wrench is accurate to ±4% of the test load as noted on the supplied certificate of calibration and has been manufactured and tested in accordance with equipment in accordance with 150 0789-1:2017. Accuracy outside the stated minimum and maximum test load is not guaranteed.**

General Safety Warnings

Please study these instructions carefully before attempting to operate this wrench.

Never apply more torque than the maximum scale reading.

This torque wrench is designed for manual tightening of thread fasteners only.

DO NOT USE IT AS A NUT-BREAKER OR FOR ANY OTHER PURPOSE.

Over torqued or defective fasteners and sockets may suddenly break. TO PREVENT INJURY, KEEP PROPER FOOTING AND BALANCE AT ALL TIMES. DO NOT USE THE WRENCH IN PLACES FROM WHICH YOU MAY FALL OR SLIP, OR AROUND ROTATING MACHINERY.

This torque wrench will not prevent you from applying more torque than set - this is not a torque limiting tool. Learn how different amounts of torque 'feel' so you will reduce the possibility of damage and/or injury due to accidental overtorquing.

APPLY FORCE TO THE GRIP ONLY. DO NOT USE 'CHEATER BARS'.
(A piece of pipe placed over the hand grip).

Always measure torque by pulling on the handle with the centre of the palm of your hand placed over the grip centre line (7)

This tool is NOT "user serviceable" and spare parts are not available. Only a NATA certified calibration laboratory should calibrate this tool.

NOTE: All torque wrenches should be calibrated at least once a year or every 1,000 cycles, whichever comes first.

This torque wrench only measures torque in the clockwise/tightening direction.
DO NOT attempt to undo fasteners (rotate anti-clockwise) with this torque wrench.
This torque wrench DOES NOT provide a torque output reading, when removing a fastener!
NOTE: Only use a K8035 Digital Torque Adapter, to measure the breaking torque of an existing fastener being removed.
This torque wrench operates in a clockwise direction only, do not use a torque wrench to loosen a bolt/nut fastener. Doing so will damage the torque wrench, put the torque wrench out of calibration and/or could void your warranty. Only use a socket wrench, breaker bar or other tool to loosen a fastener.

Lifetime Warranty does not cover the cost for periodic calibration of the tool.

A torque wrench is a precision instrument, so if you drop, heavily knock or leave a torque measure set on your tool for an extended period of time, you should have the calibration checked by an authorized calibration center to verify the tool conforms to the tools noted calibration tolerance %. Failure to do so, could lead to damage of your tool, fastener or goods being worked on and is not covered by the products warranty.

How to use your Torque Wrench

WARNING!

1. DO NOT continue to pull or rotate the torque wrench after the head has clicked. Use special care at low torque settings as click is less pronounced
2. Your Torque Wrench is a precision instrument and should be treated as such.
3. Always store your Torque Wrench in the protective blow mould case.
4. Do not attempt to rotate the grip when your desired torque measurement has been selected or locked, or the calibration accuracy maybe effected.
5. Do not rotate grip more than one full turn below the lowest scale or one full turn past the highest scale reading.
   Always return your wrench to zero after use.

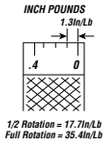
NOTE: For accuracy, always start setting the Torque Wrench from below the torque figure you require and rotate clockwise/up to the required torque figure. DO NOT set the torque figure by rotating clockwise/downwards, from a higher torque rating

KINCROME PROFESSIONAL QUALITY TOOLS
MICROMETER TORQUE WRENCH

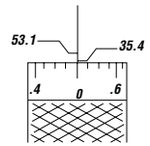
Understanding Torque Measurements / Settings of this tool

MTW200I Inch Pounds Scale

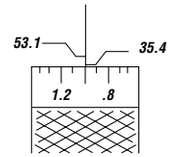
The graduations on the MTW200I Fine Scale (Handle Scale) are read as 1.3 In/Lb increments when read in conjunction with the Inch Pound Scale on the shaft.



To set the MTW200I to 35.4in/Lb, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 35.4 in/lb graduation on the shaft.

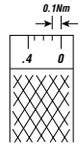


To set the MTW200I to 48.4in/Lb, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 35.4in/lb graduation on the shaft. Now rotate the handle clockwise until the 10th graduation aligns with the centreline of the shaft scale.
(35.4 plus 10x 1.3= 48.4)

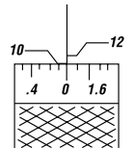


MTW200I Newton Metre Scale.

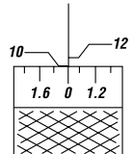
The graduations on the MTW200I Fine Scale (Handle Scale) are read as 0.1 Nm increments when read in conjunction with the Newton Metre Scale on the shaft.



To set the MTW200I to 10Nm, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 10 Nm graduation on the shaft.

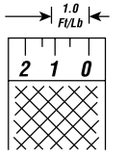


To set the MTW200I to 11.4Nm, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 10Nm graduation on the shaft. Now rotate the handle clockwise until the 1.4 graduation aligns with the centreline of the shaft.
(10Nm plus 14x 0.1Nm = 11.4Nm)

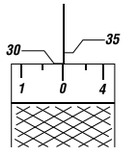


MTW80F Foot Pounds Scale

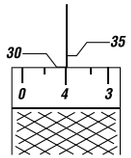
The numbered graduations on the MTW80F Fine Scale (Handle Scale) are read as 1.0 Ft/Lb increments when used in conjunction with the Foot Pound Scale on the shaft.



To set the MTW80F to 30Ft/Lb, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 30 Ft/Lb graduation on the shaft.

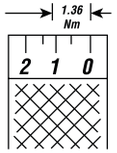


To set the MTW80F to 34Ft/Lb, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 30 Ft/Lb graduation on the shaft. Now rotate the handle clockwise until the number 4 graduation aligns with the centreline of the shaft scale.

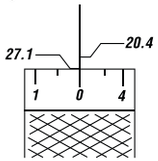


MTW80F Newton Metre Scale.

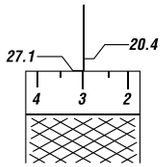
The numbered graduations on the MTW80F Fine Scale (Handle Scale) are read as 1.36 Nm when used in conjunction with the Newton Metre Scale on the shaft.



To set the MTW80F to 20.4Nm, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 20.4Nm graduation on the shaft.

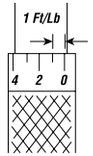


To set the MTW80F to 24.48Nm, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 20.4Nm graduation on the shaft. Now rotate the handle clockwise until the next No.3 graduation aligns with the centreline of the shaft. (This is 20.4 plus 1.36 plus 1.36 plus 1.36 = 24.48Nm)

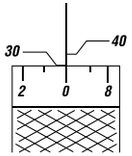


MTW150F Foot Pounds Scale

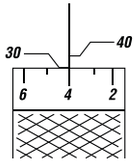
The small graduations on the MTW150F Fine Scale (Handle Scale) are read as one Ft/Lb when read in conjunction with the Foot Pound Scale on the shaft.



To set the MTW150F to 30Ft/Lb, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 30Ft/Lb graduation on the shaft.

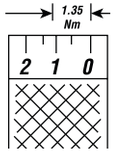


To set the MTW150F to 34Ft/Lb, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 30Ft/Lb mark on the shaft. Now rotate the handle clockwise until the number 4 graduation aligns with the centreline on the shaft.

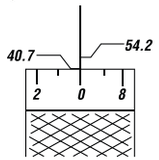


MTW150F Newton Metre Scale.

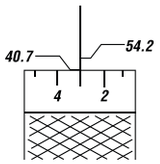
The small graduations on the MTW80F Fine Scale (Handle Scale) are in 1.35 Nm increments when read in conjunction with the Newton Metre Scale on the shaft.



To set the MTW80F to 40.7Nm, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 40.7Nm graduation on the shaft.



To set the MTW150F to 44.75Nm, rotate the handle until the 0 graduation on the handle aligns with the centreline on the shaft and the 40.7Nm graduation on the shaft. Now rotate the handle clockwise until the third graduation aligns with the centreline of the shaft scale. (This is 40.7 plus 1.35 plus 1.35 plus 1.35 = 44.75Nm)



Torque Wrench Operation

1. After setting the required torque, tighten the Torque setting lock nut (6) by rotating clockwise to lock the setting in place.
2. Attach required socket to the Square Socket Drive (1) and ensure the Forward /Reverse Lever (10) is set to tighten or rotates in a clockwise direction.
3. Place socket and wrench on bolt/nut and apply slow, gradual force to the torque wrench to tighten the fastener.
4. When the torque setting has been attained, the torque wrench will make a "click" type sound and you should feel a "knock" through the torque handle the same time. Immediately STOP applying force to the torque wrench.

Continuing to apply force after you hear or feel the click notification will over-tighten the fastener.

Setting of the Nm scale is done in the same way as above, by necessity, the scale is not calibrated in even numbers, so the setting will be more approximate. Alternatively, use the conversion scale below.

Conversion Table

Ft/Lb	Nm	Kgm	Ft/Lb	Nm	Kgm
20	27.12	2.76	155	210.18	21.42
25	33.90	3.46	160	216.96	22.11
30	40.68	4.15	165	223.74	22.80
35	47.46	4.84	170	230.52	23.49
40	54.24	5.53	175	237.70	24.19
45	61.02	6.22	180	244.08	24.88
55	74.58	7.60	185	250.86	25.57
60	81.36	8.29	190	257.64	26.26
65	88.14	8.98	195	264.42	26.95
70	94.92	9.67	200	271.20	27.64
75	101.70	10.37	205	277.98	28.33
80	108.48	11.06	210	284.76	29.02
85	115.26	11.75	215	291.54	29.71

Ft/Lb	Nm	Kgm	Ft/Lb	Nm	Kgm
90	112.04	12.44	220	298.32	30.40
95	128.82	13.13	225	305.10	31.09
100	135.60	13.82	230	311.88	31.78
105	142.38	14.51	235	318.66	32.47
110	149.16	15.20	240	325.44	33.16
115	155.94	15.89	245	332.22	33.85
120	162.72	16.58	250	339.00	34.54
125	169.50	17.28	260	352.56	35.88
130	176.28	17.97	270	366.12	37.26
135	183.06	18.66	280	379.68	38.64
140	189.84	19.35	290	393.24	40.02
145	196.62	20.04	300	406.80	41.40
150	203.40	20.73			

Care and Maintenance

It is normal for torque wrenches to go out of calibration with time and regular use. Whatever type of torque wrench you are using, regular calibration will ensure that your tools remain as accurate and effective as possible.

Putting in place a regular schedule for verifying and calibrating your torque wrench will mean less room for error. Kincrome Tools and Equipment recommend you have your torque wrench calibrated by a NATA™ approved calibration facility, every 12 months or 1,000 cycles. If your Kincrome Torque Wrench is dropped, knocked, even in the protective blow mould case, or any part replaced, the wrench must be immediately re-calibrated prior to next use to prevent inaccurate torque settings. Your new Kincrome Torque Wrench is calibrated at the factory in Taiwan, prior to shipping and a certificate of that calibration is supplied with your individually serialised torque wrench. It is the sole responsibility of the owner/user of this tool to ensure the calibration is correct as the torque wrench may have gone out of calibration during transit to retailers. For peace of mind, you should get your torque wrench checked prior to first use. Please note, the Kincrome 12 Month Warranty does not cover the cost of calibration, or the removable square drive of the wrench.

Office Contact Details

Phone: 1300 657 528 Email: enquiries@kincrome.com.au Fax: 1300 556 005 Website: www.kincrome.com.au

Spare Parts

There are no user spare parts available for these wrenches.

Warranty

12 MONTH WARRANTY

Warranty given by Kincrome Australia Pty Ltd of Lakeview Drive, Carribbean Park, Scoresby, Victoria, Australia (Tel +61 3 9730 7100) If this product has materials or workmanship defects (other than defects caused by abnormal or non warranted use) you can, at your cost, send the product to place of purchase, an authorised Kincrome service agent or one of Kincromes addresses for repair or replacement. Your rights under this warranty are in addition to any other rights you have under the Australian Consumer Law or other applicable laws. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. For further details please visit www.kincrome.com.au or call us. Due to minor changes in design or manufacture, the product you purchase may sometimes differ from the one shown on the packaging.