

HOW TO USE TOPTUL TORQUE WRENCH

1. UNLOCK ADJUSTABLE HANDLE.



2. SET THE REQUIRED TORQUE BY TURNING ADJUSTABLE HANDLE.



3. WHEN TORQUE VALUE IS SELECTED, LOCK ADJUSTABLE HANDLE.



4. AFTER INSTALLING SOCKET TO NUT OR BOLT, APPLY FORCE ON THE HANDLE AND THEN STOP APPLYING FORCE UNTIL HEARING "CLICK". THE TORQUE WRENCH WILL AUTOMATICALLY RETURN TO ZERO RESET.



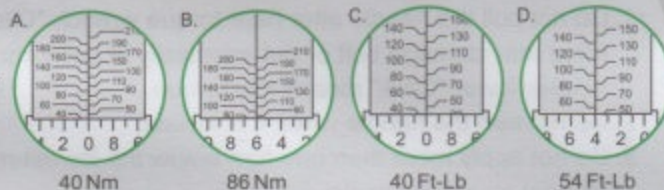
EXAMPLE: NEWTON SCALE (Nm) 1 ON FINE SCALE = 1 Nm

- A. Turn handle reach 40 Nm scale, and the reading "0" must align with centerline.
B. To set 86 Nm, adjust handle scale to reading "6" aligned with centerline.

EXAMPLE: FOOT POUND (Ft-Lb) 1 ON FINE SCALE = 1 Ft-Lb

- C. Turn handle reach 40 Ft-Lb scale, and the reading "0" must align with centerline.
D. To set 54 Ft-Lb, adjust handle scale to reading "4" aligned with centerline.

5. WHEN NOT IN USE, KEEP LOWEST TORQUE SETTING IN CASE THE INTERNAL SPRING GET FATIGUED FROM A CONTINUOUS COMPRESSION.



TOPTUL® TORQUE WRENCH

Certificate of Conformance

Model No : ANAG2470

Serial No : 24018568

Range : 100~700Ft-LB

Inspector : AHMAD

Date of Test : 2024/1/26

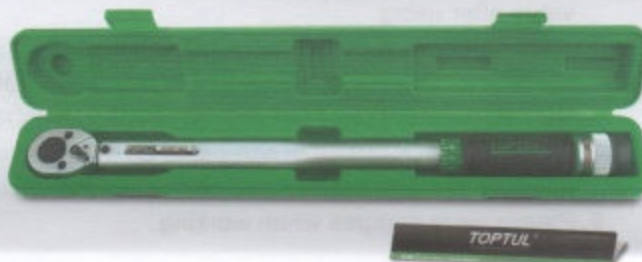
Units : Ft-LB

Ambient Temperature : 23°C

Humidity : 65%-70%

Quality Manager : FRANK

Max Deviation / Tolerance : $\pm 4\%$ CW



Set Torque		Permissible		Test Results - Clockwise (% deviation)									
Ft-LB		Min.	Max.	1	%	2	%	3	%	4	%	5	%
min.	100	96.00	104.00	101.3	1.30%	100.9	0.90%	100.6	0.60%	100.7	0.70%	100.8	0.80%
60%	420	403.20	436.80	421.7	0.40%	421.1	0.26%	420.8	0.19%	421.3	0.31%	421.3	0.31%
100%	700	672.00	728.00	697.4	-0.37%	694.8	-0.74%	691.3	-1.24%	690.1	-1.41%	689.7	-1.47%

Accessories fitted to the Torque Wrench for the purposes of this test : N/A

The effective length / dimensions : N/A

The limits shown, and the test equipment used for this Declaration of Conformance, comply with the requirements of ISO 6789-1:2017

The Test Results shown above, fall within the maximum permitted deviation - ☒ YES / ☐ NO

The Test Equipment used to conduct this test has international traceability through :

Measurement Device used :

Model No : RSR-2000

Serial No : 03197

The uncertainty of this equipment is: 0.03%

The maximum measurement error of this equipment is : 0.10%

The measurement error of this equipment is less than 25% of the maximum permissible deviation.

Torque Wrench

HANDBOOK No. T5-600

CERTIFICATE OF CALIBRATION

TORQUE WRENCH

- CR-V/CR-MO Steel ratchet head
- Equip flip reverse ratchet action function
- Unique push to lock/pull to unlock scale setting feature
- Tolerance of torque accuracy $\pm 4\%$ CW

CERTIFICATE OF CALIBRATION



SERIAL NO.

Each torque wrench has an individual product serial number.

WARNING:

1. Do not pull the handle after hear torque wrench "Click". Keep applying force may damage bolt or nut especially at low torque setting.
※ Hear lower "Click" means low torque.
2. Do not turn the handle when it is locked.
3. Do not apply more than one turn below the lowest-minimum scale or highest-maximum scale.
4. Do not disassemble or adjust the calibrator without special equipment. It will result in the loss of accuracy and void the guaranty.
5. Do not soak in any liquid to avoid affecting the normal lubrication inside.
6. To extend the life of torque wrench, be sure to set the torque at lowest value after using.
7. **THIS TOOL IS A PRECISION MEASUREMENT AND DESIGNED FOR MANUAL. TIGHTENING FASTENERS ONLY. DO NOT USE IT AS A NUT BREAKER OR FOR ANY OTHER PURPOSE.**
8. Do not use any format of extension on the handle of the tool. This will possibly damage the tool and also affect the accuracy.
9. Please wear goggles when working.



DO NOT ADJUST / OPEN



MAINTENANCE

After the first using or being unused for long period, use higher torque to operate for 5 to 10 times so that the internal lubricant can recoat on the components inside.

1. This torque wrench is a precision measuring instrument. Please use it carefully as to study & follow the instructions when operate the torque wrench.
2. The accuracy of the torque wrench should be regularly checked once a year or per 5,000 times used.
3. Torque applications & re-calibration must be done by an authorized workshop.

This torque wrench is accurate to $\pm 4\%$ CW of the set load and has been manufactured and tested in accordance with DIN3122 & ISO 6789 & ASME B107.300 (ASME B107.14)

ROTAR MACHINERY INDUSTRIAL CO., LTD.

CONVERSION TABLES

Ft-Lb	Nm	Kg.m	Ft-Lb	Nm	Kg.m
10	13.56	1.38	255	345.78	35.19
15	20.34	2.07	260	352.56	35.88
20	27.12	2.76	270	366.12	37.26
25	33.90	3.45	280	379.68	38.64
30	40.68	4.14	290	393.24	40.02
35	47.46	4.83	300	406.80	41.40
40	54.24	5.52	310	420.36	42.78
45	61.02	6.21	320	433.92	44.16
50	67.80	6.90	330	447.48	45.54
55	74.58	7.59	340	461.04	46.92
60	81.36	8.28	350	474.60	48.30
65	88.14	8.97	360	488.16	49.68
70	94.92	9.66	370	501.72	51.06
75	101.70	10.35	380	515.28	52.44
80	108.48	11.04	390	528.84	53.82
85	115.26	11.73	400	542.40	55.20
90	122.04	12.42	410	555.96	56.58
95	128.82	13.11	420	569.52	57.96
100	135.60	13.80	430	583.08	59.34
105	142.38	14.49	440	596.64	60.72
110	149.16	15.18	450	610.20	62.10
115	155.94	15.87	460	623.76	63.48
120	162.72	16.56	470	637.32	64.86
125	169.50	17.25	480	650.88	66.24
130	176.28	17.94	490	664.44	67.62
135	183.06	18.63	500	678.00	69.00
140	189.84	19.32	510	691.56	70.38
145	196.62	20.01	520	705.12	71.76
150	203.40	20.70	530	718.68	73.14
155	210.18	21.39	540	732.24	74.52
160	216.96	22.08	550	745.80	75.90
165	223.74	22.77	560	759.36	77.28
170	230.52	23.46	570	772.92	78.66
175	237.30	24.15	580	786.48	80.04
180	244.08	24.84	590	800.04	81.42
185	250.86	25.53	600	813.60	82.80
190	257.64	26.22	610	827.16	84.18
195	264.42	26.91	620	840.72	85.56
200	271.20	27.60	630	854.28	86.94
205	277.98	28.29	640	867.84	88.32
210	284.76	28.98	650	881.40	89.70
215	291.54	29.67	660	894.96	91.08
220	298.32	30.36	670	908.52	92.46
225	305.10	31.05	680	922.08	93.84
230	311.88	31.74	690	935.64	95.22
235	318.66	32.43	700	949.20	96.60
240	325.44	33.12	710	962.76	97.98
245	332.22	33.81	720	976.32	99.36
250	339.00	34.50	730	989.88	100.74

Lawrence

Q.C. DIRECTOR