

EZ-2 Torque Wrench - TW-4

Instructions (READ THE INSTRUCTIONS FULLY BEFORE USING TORQUE WRENCH)

Warning

- 1 The EZ-2 is a highly accurate torque wrench for torques ranging from 20 to 100 Nm (14.8 to 73.8 ft-lbs). If the application torque value needed is greater than 100 Nm, this torque wrench will not work for that application. Do NOT apply torques over 100 Nm as this will damage the wrench beyond repair.
- 2 Do NOT over tighten the part (beyond its torque specification), as it may damage the part and may cause serious injury.
- 3 Do NOT over tighten the torque wrench beyond the specified torque. Tightening the torque wrench after hearing the CLICK indicating the desired torque has been reached will damage the wrench beyond repair.
- 4 Do NOT use the torque wrench to loosen bolts or parts as this may damage the torque wrench.

Important notes

- 1 Store the torque wrench at its lowest torque setting, i.e. 20 Nm
- 2 The torque wrench is calibrated at the factory and cannot be calibrated by the user. We cannot re-calibrate the unit for you.
- 3 Do not lubricate the torque wrench.
- 5 Do not allow the torque wrench to become wet or soak it in any type of liquid.

Determining torque values:

Refer to the manufacturer's instructions for the part or component you are installing for correct torque value specifications.

The torque wrench units are in Nm. The specified torque value provided by the manufacture of the part/component must be converted into Nm. Refer to the formulas and tables below for torque conversion methods.

Table 1a

Nm	in-lbs	ft-lbs
20	177.0	14.8
21	185.9	15.5
22	194.7	16.2
23	203.6	17.0
24	212.4	17.7
25	221.3	18.4
26	230.1	19.2
27	239.0	19.9
28	247.8	20.7
29	256.7	21.4
30	265.5	22.1
31	274.4	22.9
32	283.2	23.6
33	292.1	24.3
34	300.9	25.1
35	309.8	25.8
36	318.6	26.6
37	327.5	27.3
38	336.3	28.0
39	345.2	28.8
40	354.0	29.5
41	362.9	30.2
42	371.7	31.0
43	380.6	31.7
44	389.4	32.5
45	398.3	33.2
46	407.1	33.9

Table 1b

Nm	in-lbs	ft-lbs
47	416.0	34.7
48	424.8	35.4
49	433.7	36.1
50	442.5	36.9
51	451.4	37.6
52	460.2	38.4
53	469.1	39.1
54	477.9	39.8
55	486.8	40.6
56	495.6	41.3
57	504.5	42.0
58	513.3	42.8
59	522.2	43.5
60	531.0	44.3
61	539.9	45.0
62	548.7	45.7
63	557.6	46.5
64	566.4	47.2
65	575.3	47.9
66	584.1	48.7
67	593.0	49.4
68	601.8	50.2
69	610.7	50.9
70	619.5	51.6
71	628.4	52.4
72	637.3	53.1
73	646.1	53.9

Table 1c

Nm	in-lbs	ft-lbs
74	655.0	54.6
75	663.8	55.3
76	672.7	56.1
77	681.5	56.8
78	690.4	57.5
79	699.2	58.3
80	708.1	59.0
81	716.9	59.8
82	725.8	60.5
83	734.6	61.2
84	743.5	62.0
85	752.3	62.7
86	761.2	63.4
87	770.0	64.2
88	778.9	64.9
89	787.7	65.7
90	796.6	66.4
91	805.4	67.1
92	814.3	67.9
93	823.1	68.6
94	832.0	69.3
95	840.8	70.1
96	849.7	70.8
97	858.5	71.6
98	867.4	72.3
99	876.2	73.0
100	885.1	73.8

Conversion Formulas

- 1) in-lbs to Nm → $XXX \text{ in-lbs} / 8.8507 = YYY \text{ Nm}$
- 2) ft-lbs to Nm → $XXX \text{ ft-lbs} \times 1.3556 = YYY \text{ Nm}$
- 3) in-lbs to ft-lbs → $XXX \text{ in-lbs} / 12 = YYY \text{ ft-lbs}$
- 4) ft-lbs to in-lbs → $XXX \text{ ft-lbs} \times 12 = YYY \text{ in-lbs}$
- 5) Nm to in-lbs → $XXX \text{ Nm} \times 8.8507 = YYY \text{ in-lbs}$
- 6) Nm to ft-lbs → $XXX \text{ Nm} / 1.3556 = YYY \text{ ft-lbs}$

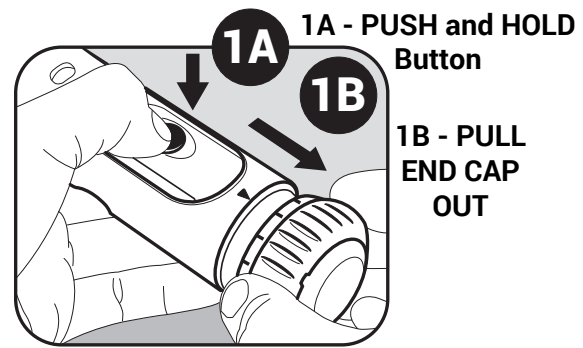
Table 2 - Conversion Equations

From:	To:		
	Nm	in-lb	ft-lb
Nm	N/A	$\times 8.8507$	$/ 1.3556$
in-lb	$/ 8.8507$	N/A	$/ 12$
ft-lb	$\times 1.3556$	$\times 12$	N/A

Setting the Torque Wrench

Step 1: Unlock Setting End Cap

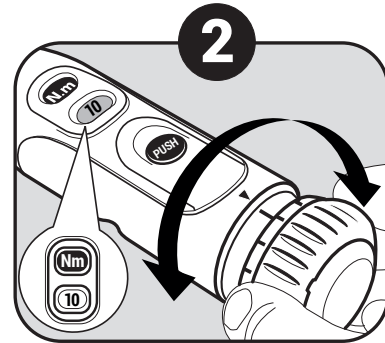
- Press and hold the button on the handle labeled 'PUSH' and pull the end cap out
- See Figures 1A and 1B.
- Once end cap is pulled out, the "PUSH" button can be released.



Step 2: Set Torque Value

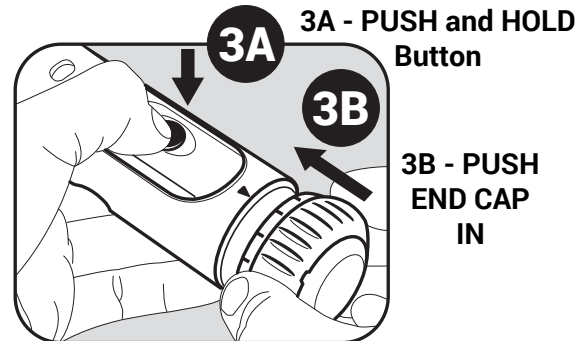
- Turn the end cap to the desired torque value - the torque value in Nm will be displayed in the small window
- Do NOT turn end cap past or below maximum/minimum values
- DO NOT adjust the Torque Value beyond the 'STOP' value

**** There is a 1/2 step between torque values settings - however the value displayed will show as blank. For instance if you want torque value of 41.5 Nm - you would set the value between 41 Nm and 42 Nm.



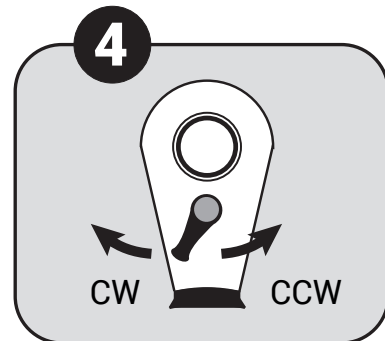
Step 3: Lock Setting End Cap

- Press and hold the 'PUSH' button on the handle and push in the end cap
- See Figures 3A and B
- Once end cap is pushed in, the "PUSH" button can be released.



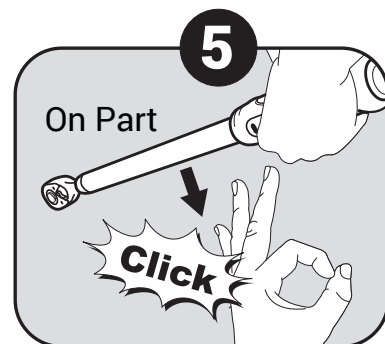
Step 4: Set Torque Wrench Direction (CW or CCW)

- Toggle the direction switch
- The LEFT position (as shown) sets the torque fastener in CW (clockwise) direction
- The RIGHT position sets torque fastener in CCW (counterclockwise) direction



Step 5: Torque Fastener

- Before using the torque wrench - verify that the Nm setting on the torque wrench is correct so that the correct torque will be applied to the fastener.
- Check again - that the correct torque specification has been set!
- Place the torque wrench on fastener
- Slowly torque the fastener until a click is heard
- Do NOT apply force quickly to the torque wrench



How to properly tighten part

- It is important to apply only a slow smooth force (without jerking) to the torque wrench when tightening.
- Applying a fast, jerking force may over tighten the fastener and damage both the part and the torque wrench.
- Apply force to the handle of the torque wrench until a CLICK is heard, then IMMEDIATELY STOP applying force.
- Once a CLICK is heard, stop applying the force; the part is now set to the desired torque.
- Do NOT over tighten the part with the torque wrench.
- Continuing to tighten the torque wrench after hearing a CLICK may damage the wrench beyond repair.