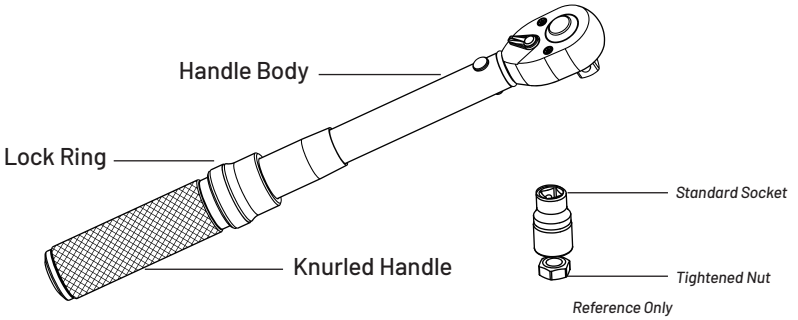
TORQUE WRENCH

Please read this manual carefully before operating the torque wrench. This tool is a precision measuring instrument. Handle with care and store properly. Do not attempt to increase leverage of this wrench with any other device. Failure to follow all instructions could result in damage to torque wrench, property damage, or injury.

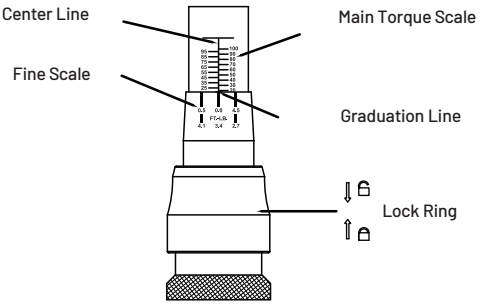


1. Set Torque Value

This is a dual-range torque wrench marked with foot pounds (FT.-LB.) and Newton meters (Nm) on opposite sides of handle. The Main Torque Scale is marked on the handle body with more precise Fine Scale below it (Fig. A).

1.1 Pull back Lock Ring to adjust the torque setting.

Fig. A

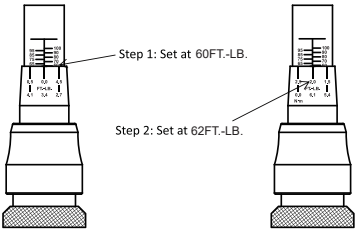


1.2 Rotate the Knurled Handle until the Graduation Line and Fine Scale are aligned to the desired torque setting.

Example: Setting the torque to 62 FT-LB

Rotate Knurled Handle until Graduation Line is parallel to the 60 FT-LB mark and the Fine Scale is set to "0" by aligning it to the Center Line of the Main Scale.
The torque is now set to 60 FT-LB.

Continue rotating until "2" on the Fine Scale aligns with the Center Line.
The torque is now set to 62 FT-LB.



Setting desired torque to Newton Meter (Nm) follows the same procedure described above for FT-LB. scale.

1.3 Install proper socket/attachment to square drive. Place socket on nut/bolt to be tightened.

1.4 Operate torque wrench the same as a standard socket wrench to tighten nut/bolt. As nut/bolt becomes snug, slow operation to a smooth, steady pull. Operating wrench too quickly or with too much force may cause you to miss the exact torque setting.

1.5 At the instant the wrench clicks, torque setting has been reached. Stop pulling wrench and release pressure on handle. Do not continue to pull after torque setting is reached. Doing so will overtighten the nut/bolt and could damage wrench. Once pressure is released from the handle, wrench will automatically reset for next operation.

2. Precautions for Use

2.1 Always confirm the torque setting before use.
(The wrench is shipped with the minimum torque setting.)

2.2 Have the wrench regularly inspected by a professional to maintain accuracy. Do not disassemble or modify the wrench yourself to prevent malfunction or injury.

2.3 For long-term storage, return the torque setting to its minimum, apply rust-preventative oil, and store the wrench in a dry place.

2.4 To ensure continued accuracy, calibrate the wrench once a year or every 5000 uses, whichever comes first.

2.5 Do not use torque wrench to break free stuck fasteners, as a hammer, with pliers, or in wet environments.

3. Torque Conversion Table

INCH POUNDS (in.-lb.)	FOOT POUNDS (ft.-lb.)	NEWTON METERS (Nm)
5	0.42	0.56
10	0.83	1.13
15	1.25	1.69
20	1.67	2.26
25	2.08	2.82
30	2.50	3.39
35	2.92	3.95
40	3.33	4.52
45	3.75	5.08
50	4.17	5.65
55	4.58	6.21
60	5.00	6.78
65	5.42	7.34
70	5.83	7.91
75	6.25	8.47
80	6.67	9.03
85	7.08	9.60
90	7.50	10.16
95	7.91	10.73
100	8.33	11.29
105	8.75	11.86
110	9.17	12.42
115	9.58	12.99
120	10.00	13.55
125	10.42	14.12
130	10.83	14.68
135	11.25	15.25
140	11.67	15.81
145	12.08	16.38
150	12.50	16.94
155	12.91	17.51
160	13.33	18.07
165	13.75	18.64
170	14.17	19.20
175	14.58	19.77

FOOT POUNDS (ft.-lb.)	INCH POUNDS (in.-lb.)	NEWTON METERS (Nm)
1	12	1.35
2	24	2.71
3	36	4.06
4	48	5.42
5	60	6.78
6	72	8.13
7	84	9.49
8	96	10.84
9	108	12.20
10	120	13.55
11	132	14.91
12	144	16.27
13	156	17.62
14	168	18.98
15	180	20.33
16	192	21.69
17	204	23.04
18	216	24.40
19	228	25.76
20	240	27.11

NEWTON METERS (Nm)	INCH POUNDS (in.-lb.)	FOOT POUNDS (ft.-lb.)
1	8.85	0.73
2	17.70	1.47
3	26.55	2.21
4	35.40	2.95
5	44.25	3.68
6	53.10	4.42
7	61.95	5.16
8	70.80	5.90
9	79.65	6.63
10	88.50	7.37
11	97.35	8.11
12	106.20	8.85
13	115.06	9.58
14	123.91	10.32
15	132.76	11.06
16	141.61	11.80
17	150.46	12.53
18	159.31	13.27
19	168.16	14.01
20	177.01	14.75

CONVERSIONS		
1 in.-lb. =	1 ft.-lb.=	1 Nm =
0.0833 ft.-lb.	0.138 m-kg	0.7375 ft.-lb.
0.1129 Nm	12.0 in.-lb.	8.8507 in.-lb.
0.0115 m-kg	1.355 Nm	0.1019 m-kg
1.1521 cm-kg	13.82 cm-kg	10.19 cm-kg

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