

LEXIVON

3/8-INCH DRIVE CLICK
TORQUE WRENCH

10-80 Ft-Lb/13.6-108.5 Nm



LX-182 USER MANUAL

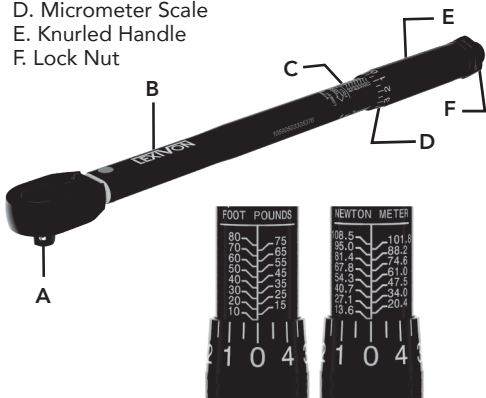
ATTENTION

Please read and understand entire manual, including all safety information, before using 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.

Wrench is shipped ready to use, calibrated and tested to an accuracy of $\pm 4\%$. To maintain this accuracy, it is important that wrench is stored at lowest torque setting, 10 ft.-lb. (13.6 Nm). This setting relieves extra tension on the internal spring, reducing fatigue that can adversely affect accuracy.

INTRODUCTION

- A. Square Ratchet Head
- B. Handle Body
- C. Main Scale
- D. Micrometer Scale
- E. Knurled Handle
- F. Lock Nut



This is a dual-range torque wrench marked with feet pounds (ft.-lb.) and Newton meters (Nm) on opposite sides of handle.

SETTING TORQUE READING

Foot Pounds (Example of setting 53 ft.-lb)

1. Locate lock nut on the end of handle. Unlock knurled handle by turning lock nut counterclockwise.



2. Turn knurled handle until its top edge is even with the horizontal "50" mark on main scale and the "0" mark on micrometer scale is centered on vertical line of main scale.

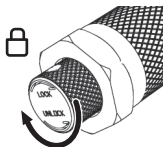


3. The micrometer scale divides the main scale markings into 5 divisions. Every micrometer scale marking equals 1 ft.-lb. To increase torque from 50 to 53, turn micrometer handle clockwise until "3" mark is centered on vertical line of main scale.



50 ft.-lb. (main scale) + 3 ft.-lb. (micrometer scale) = 53 ft.-lb.

4. Lock torque setting by turning lock nut clockwise until snug. Wrench is now set to measure 53 ft.-lb. of torque and ready to use.



NEWTON METERS

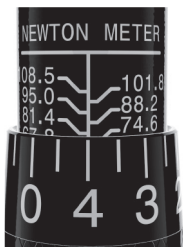
(Example of setting 80.0Nm)

Setting desired torque on the Nm scale uses the same procedure described above for ft.-lb. scale. The micrometer scale divides the main scale markings into 5 divisions. Every micrometer scale marking equals 1.36 Nm.

To set a torque value of 80.0 Nm, turn knurled micrometer handle until top is aligned with "74.6" mark on main scale and the "0" mark on micrometer scale is centered on vertical line of main scale.

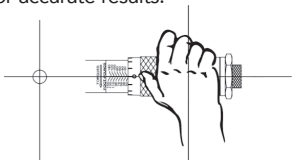
To increase torque from 74.6 Nm to 80.0 Nm,

turn micrometer handle clockwise until the "4" mark is centered on vertical line of main scale. $80.0 \text{ Nm} - 74.6 \text{ Nm} = 5.4 \text{ Nm}$. $5.4 \text{ Nm} / 1.36 = 4$ micrometer scale markings. Wrench is now set to measure 80.0 Nm of torque and ready to use.

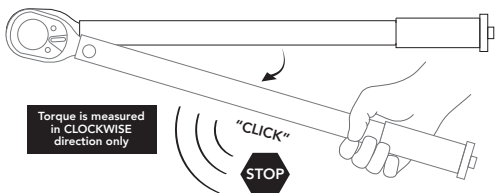


WRENCH OPERATION

1. Install proper socket/attachment on the square drive and apply to nut/bolt. Make sure to keep your tightening hand centered on the knurled handle for accurate results.



2. Operate the wrench to tighten nut/bolt and slow operation when they became snug to a smooth and steady pull. When a 'CLICK' or 'IMPULSE' is heard or felt, stop pulling wrench and release pressure on handle.



3. Wrench will automatically reset for next operation after pressure is released.

4. IMPORTANT OPERATION NOTICE:

Operating wrench too quickly or with too much force may cause you to miss the exact torque setting.

Do not continue to pull after torque setting is reached. Doing so will damage wrench internal mechanism.

At low torque settings, click can be subtle. Use wrench in a quiet environment.

Do not use torque wrench to loosening fasteners.

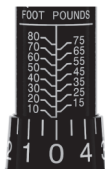
Torque is measured in **CLOCKWISE** direction only!

Tighten/adjust lock nut and knurled handle by hand only.

MAINTENANCE AND STORAGE

1. If wrench has not been used for a long period of time, operate it several times at a low torque setting. This will allow internal lubricant to recoat internal components.

2. Keep the Torque Wrench Scale at the lowest setting when not in use. The lowest setting: 10 ft.-lb. mark on the main scale and '0' mark on the micrometer scale. **DO NOT** turn handle below lowest torque setting.



3. This wrench is a precision measuring instrument. Take care to operate wrench correctly. Store in a clean, dry environment.

4. Clean wrench by wiping with a clean, dry, lint-free cloth. Do not immerse in any type of liquid or cleaner. This may damage the internal components of the wrench.

TORQUE UNIT CONVERSION TABLE

FOOT POUNDS (ft.-lb.)	INCH POUNDS (in.-lb.)	NEWTON METERS (Nm)	NEWTON METERS (Nm)	FOOT POUNDS (ft.-lb.)	INCH POUNDS (in.-lb.)	INCH POUNDS (in.-lb.)	FOOT POUNDS (ft.-lb.)	NEWTON METERS (Nm)
5	60	6.78	10	0.83	88.51	100	8.34	11.29
10	120	13.55	20	1.67	177.01	125	10.41	14.12
15	180	20.33	30	2.50	265.52	150	12.50	16.94
20	240	27.11	40	3.33	354.03	175	14.58	19.77
25	300	33.89	50	36.87	442.53	200	16.67	22.59
30	360	40.67	60	44.25	531.04	225	18.75	25.42
35	420	47.45	70	51.63	619.55	250	20.83	28.24
40	480	54.23	80	59.00	708.06	275	22.91	31.07
45	540	61.01	90	66.38	796.56	300	25.00	33.89
50	600	67.79	100	73.75	885.07	325	27.08	36.72
55	660	74.56	110	81.13	973.58	350	29.17	39.54
60	720	81.34	120	88.50	1062.09	375	31.25	42.37
65	780	88.12	130	95.88	1150.59	400	33.33	45.19
70	840	94.90	140	103.25	1239.10	425	35.41	48.01
75	900	101.68	150	110.63	1327.61	450	37.50	50.84
80	960	108.46	160	118.01	1416.12	475	39.58	53.66
85	1020	115.24	170	125.38	1504.62	500	41.67	56.49
90	1080	122.02	180	132.76	1593.13	525	43.75	59.31
95	1140	128.80	190	140.13	1681.64	550	45.83	62.14
100	1200	135.58	200	147.51	1770.15	575	47.91	64.96
105	1260	142.36	210	154.88	1858.65	600	50.00	67.79
110	1320	149.13	220	162.26	1947.16	625	52.08	70.61
115	1380	155.91	230	169.64	2035.67	650	54.16	73.44
120	1440	162.69	240	177.01	2124.17	675	56.25	76.26
125	1500	169.47	250	184.39	2212.68	700	58.33	79.09
						725	60.41	81.91
						750	62.50	84.73
						775	64.58	87.56
						800	66.67	90.38
						825	68.75	93.21
						850	70.83	96.03
						875	72.91	98.86
						900	75.00	101.68
						925	77.08	104.51
						950	79.16	107.33
						975	81.25	110.16

CONVERSIONS

1 ft.-lb. =	1 in.-lb. =	1 Nm =
0.138 m-kg	0.0833 ft.-lb.	0.737 ft.-lb.
12.0 in.-lb.	0.113 Nm	8.85 in.-lb.
1.35 Nm	0.0115 m-kg	0.102 m-kg
13.8 cm-kg	1.15 cm-kg	10.2 cm-kg

CAUTION:

PRECISION TOOL - Do not use for extreme operation like breaking loose stuck fasteners.

PRACTICE FIRST - Try wrench on a non-critical fastener first to learn how it works.

OPERATE SLOWLY - Wrench "clicks" to notify when torque value is reached. Wrench does not stop applying force automatically.

LISTEN AND FEEL - At low torque settings clicks is subtle. Learn to hear and feel the click.

STORE AT LOWEST SETTING - To maintain calibration, set wrench to lowest torque value before storage.

MEASURES IN ONE DIRECTION - Wrench only measures torque in right hand (clockwise) direction.

LEXIVON HAS YOU COVERED

**OUR MEASURING INSTRUMENTS
USUALLY COME WITH A 1 YEAR WARRANTY**



Register your new product online Within 90 days from the purchase

**IN ORDER TO EXTEND YOUR
WARRANTY SERVICE FOR 2 YEARS**

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**FOR ANY HELP YOU MIGHT NEED
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