LEXIVON

3/4-INCH DRIVE CLICK TORQUE WRENCH

30~300 Ft-Lb/40.7~406.8 Nm

LX-185 USER MANUAL

ATTENTION

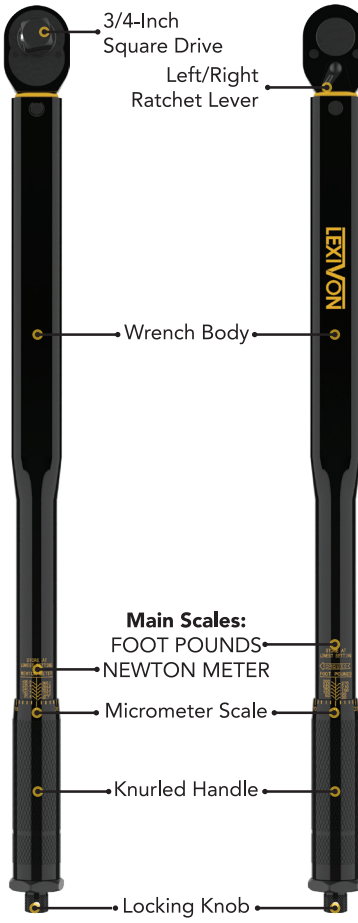
- Before using the torque wrench, make sure to read and understand the entire manual, including safety information. Not following the instructions could result in damage to the tool, property, or personal injury.

- Treat this precision measuring tool with care and store it properly. Avoid using any additional devices to increase leverage of this wrench.

- It is recommended to practice first with a non-critical application. Be aware that at low torque settings, the click may be subtle; pull the wrench slowly to observe and learn to recognize the click both audibly and by feel.

- The wrench is calibrated & delivered in a ready-to-use condition. Tested to an accuracy of +/- 4%. To preserve this accuracy, **it's crucial to store the wrench at its lowest torque setting of 30 ft.-lb. (40.7 Nm)**. By utilizing this setting, any additional strain on the internal spring is relieved, minimizing fatigue that will impact the wrench's accuracy.

INTRODUCTION



Throughout the instruction manual, the wrench body scale will be referred to as the "main scale," and the knurled handle scale will be referred to as the "micrometer scale". This torque wrench is dual-side marked with **Foot-Pounds (ft.-lb.)** and **Newton-Meters (Nm)** on opposite sides of the wrench body.

SETTING TORQUE READING

FOOT POUNDS (Example of setting 130 ft.-lb.)

1. Find the locking knob positioned at the end of the knurled handle. Release the knurled handle by rotating the locking knob in a counterclockwise direction.

2. Rotate the knurled handle until its top edge aligns with the horizontal "120" mark on the main scale, while the "0" mark on the micrometer scale is centered on the vertical line of the main scale.

3. The micrometer scale divides the main scale into 15 divisions, each marking representing 2 ft.-lb.
To adjust the torque from 120 to 130 ft.-lb., rotate the micrometer handle in a clockwise direction until the "10" mark (5 micro-movements) aligns with the vertical line on the main scale. This adds 10 ft.-lb. to the main scale reading of 120 ft.-lb., resulting in a total torque of 130 ft.-lb.

4. Lock the torque setting by turning the locking knob clockwise until snug. Wrench is now set to measure 130 ft.-lb. of torque and ready to use.

NEWTON METERS

To set the desired torque using the Nm scale, follow the same procedure as you would for the ft.-lb. scale.

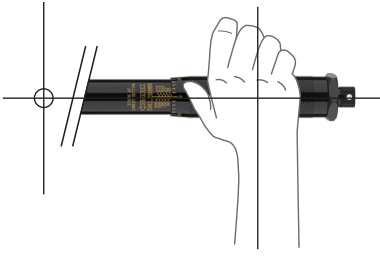
However, It is essential to keep in mind that every mark/increment on the micrometer scale will now represent 2.71 Nm.

Contrasting with the ft.-lb. setting procedure, where each mark on the micrometer scale represents 2 ft.-lb., when referring to the Nm setting, the value of each mark on the micrometer scale is 2.71.

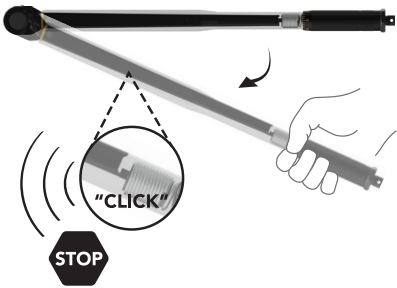
When using the torque wrench's Newton Meter scale, it's crucial to keep this conversion factor in mind. Make sure you calculate each increment as 2.71 Nm to accurately set the desired torque value.

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 the nut/bolt, gradually increasing the force until they are snug. Slow down your operation and apply a smooth and steady pull. When you hear or feel a 'CLICK' or 'IMPULSE', stop pulling the wrench and release the pressure on the handle.



3. The wrench will automatically reset for the next operation after pressure is released.

SPECIFICATIONS

- Range - Ft-Lb: 30 ~ 300
- Range - Nm: 40.7~406.8
- Increment: 2 Ft-Lb (2.71 Nm)
- Accuracy: ± 4 percent
- Length: 25 inch
- Ratchet: Cr-V, 24 tooth gear
- Finish: Electro-Black
- Standard: ASME B107.300
  DIN-ISO-6789

Torque is measured exclusively in the clockwise direction only.

IMPORTANT OPERATION NOTICE

Operating the wrench too quickly or with excessive force may lead to missing the precise torque setting. Once the torque setting is reached, do not continue pulling, as this can damage the internal mechanism of the wrench.

At low torque settings, the click may be subtle. It is recommended to use the wrench in a quiet environment and learn to both hear and feel the click for proper torque application.

Do not attempt to use the torque wrench to loosen stuck fasteners. Tighten/adjust the locking knob and the knurled handle by hand only.

Remember, torque is measured exclusively in the clockwise direction.

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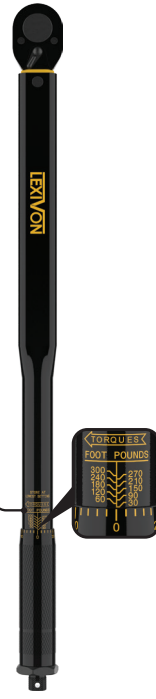
MAINTENANCE AND STORAGE

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

2. Keep the Torque Wrench at the lowest setting when not in use.

The lowest setting: 30 ft.-lb. mark on the main scale and '0' mark on the micrometer scale.

3. DO NOT turn handle below lowest torque setting.



This wrench is a precision measuring instrument. Take care and operate correctly. Store in a clean, dry environment. Clean by wiping with a dry, lint-free cloth. Do not immerse in any liquid or cleaner, as it can damage the internal components of the wrench.

TORQUE UNIT CONVERSION TABLE

FOOT POUNDS (ft.-lb.)	INCH POUNDS (in.-lb.)	NEWTON METERS (Nm)
30	360	40.67
35	420	47.45
40	480	54.23
45	540	61.01
50	600	67.79
55	660	74.56
60	720	81.34
65	780	88.12
70	840	94.90
75	900	101.68
80	960	108.46
85	1020	115.24
90	1080	122.02
95	1140	128.80
100	1200	135.58
105	1260	142.36
110	1320	149.13
115	1380	155.91
120	1440	162.69
125	1500	169.47
130	1560	176.25
135	1620	183.03
140	1680	189.81
145	1740	196.59
150	1800	203.37
155	1860	210.15
160	1920	216.93
165	1980	223.70
170	2040	230.48
175	2100	237.26
180	2160	244.04
185	2220	250.82
190	2280	257.60
195	2340	264.38
200	2400	271.16
205	2460	277.94
210	2520	284.72
215	2580	291.50
220	2640	298.27
225	2700	305.05
230	2760	311.83
235	2820	318.61
240	2880	325.39
245	2940	332.17
250	3000	338.95
255	3060	345.73
260	3120	352.51
265	3180	359.29
270	3240	366.07
275	3300	372.84
280	3360	379.62
285	3420	386.40
290	3480	393.18
295	3540	399.96
300	3600	406.74

NEWTON METERS (Nm)	FOOT POUNDS (ft.-lb.)	INCH POUNDS (in.-lb.)
40	29.50	354.03
50	36.87	442.53
60	44.25	531.04
70	51.63	619.55
80	59.00	708.06
90	66.38	796.56
100	73.75	885.07
110	81.13	973.58
120	88.50	1062.09
130	95.88	1150.59
140	103.25	1236.10
150	110.63	1327.61
160	118.01	1416.12
170	125.38	1504.62
180	132.76	1593.13
190	140.13	1681.64
200	147.51	1770.15
210	154.88	1858.65
220	162.26	1947.16
230	169.64	2035.67
240	177.01	2124.17
250	184.39	2212.68
260	191.76	2301.19
270	199.14	2389.70
280	206.51	2478.20
290	213.89	2566.71
300	221.26	2655.22
310	228.64	2743.73
320	236.02	2832.23
330	243.39	2920.74
340	250.77	3009.25
350	258.14	3097.76
360	265.52	3186.26
370	272.89	3274.77
380	280.27	3363.28
390	287.64	3451.79
400	295.02	3540.29

INCH POUNDS (in.-lb.)	FOOT POUNDS (ft.-lb.)	NEWTON METERS (Nm)
100	8.34	11.29
125	10.41	14.12
150	12.50	16.94
175	14.58	19.77
200	16.67	22.59
225	18.75	25.42
250	20.83	28.24
275	22.91	31.07
300	25.00	33.89
400	33.33	45.19
500	41.67	56.49
600	50.00	67.79
700	58.33	79.09
800	66.67	90.38
900	75.00	101.68
1000	83.33	112.98
1100	91.67	124.28
1200	100.00	135.58
1300	108.33	146.88
1400	116.67	158.17
1500	125.00	169.47
1600	133.33	180.77
1700	141.67	192.07
1800	150.00	203.37
1900	158.33	214.67
2000	166.67	225.97
2100	175.00	237.26
2200	183.33	248.56
2300	191.67	259.86
2400	200.00	271.16
2500	208.33	282.46
2600	216.67	293.76
2700	225.00	305.06
2800	233.33	316.35
2900	241.67	327.65
3000	250.00	338.95

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.

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HAS YOU COVERED

THE LX-185 MEASURING INSTRUMENT INCLUDES A STANDARD 1-YEAR WARRANTY

TO EXTEND THE WARRANTY FOR A TOTAL OF 2 YEARS

Simply register your new product online within 90 days of purchase register at:

www.lexivon.com/product-registration

FOR ANY HELP YOU MIGHT NEED PLEASE DON'T HESITATE TO CONTACT US

support@lexivon.com

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