LEXIVON

3/8-INCH DRIVE CLICK TORQUE WRENCH

10-80 Ft-Lb/13.6-108.5 Nm

LX-182 USER MANUAL

ATTENTION

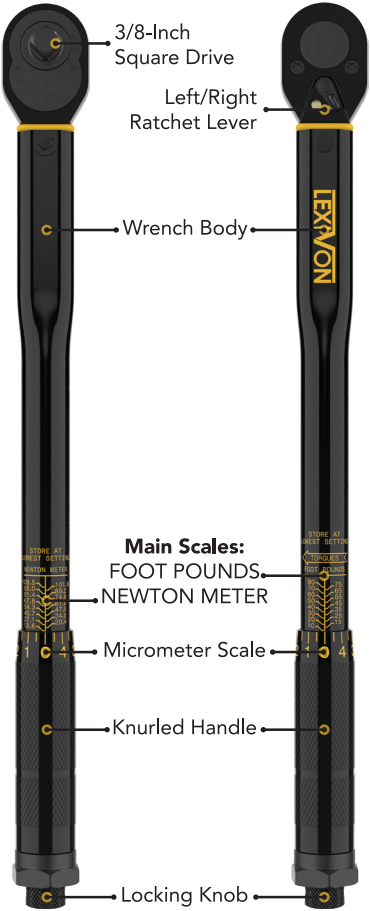
- Before using the torque wrench, make sure to read and understand the entire manual, including safety information. Not following the instructions could result in damage to the tool, property, or personal injury.

- 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 10 ft.-lb. (13.6 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.

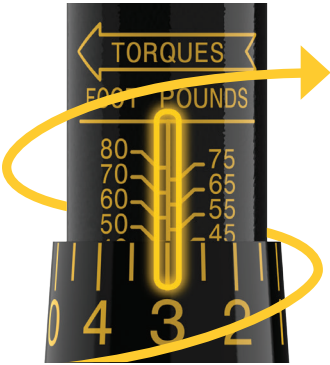
SETTING TORQUE READING

FOOT POUNDS (Example of setting 53 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 "50" 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 10 divisions, each marking representing 0.5 ft.-lb.
To adjust the torque from 50 to 53 ft.-lb., rotate the micrometer handle in a clockwise direction until the "3" mark (6 micro-movements) aligns with the vertical line on the main scale. This adds 3 ft.-lb. to the main scale reading of 50 ft.-lb., resulting in a total torque of 53 ft.-lb.



4. Lock the torque setting by turning the locking knob clockwise until snug. Wrench is now set to measure 53 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.

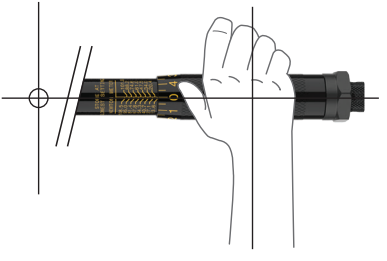
However, It is essential to keep in mind that every mark/increment on the micrometer scale will now represent 0.678 Nm.

Contrasting with the ft.-lb. setting procedure, where each mark on the micrometer scale represents 0.5 ft.-lb., when referring to the Nm setting, the value of each mark on the micrometer scale is 0.678.

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 0.678 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: 10 ~ 80
- Range - Nm: 13.6 ~ 108.5
- Increment: 0.5 Ft-Lb (0.678 Nm)
- Accuracy: ± 4 percent
- Length: 14-1/2 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: 10 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)
5	60	6.78
10	120	13.55
15	180	20.33
20	240	27.11
25	300	33.89
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

NEWTON METERS (Nm)	FOOT POUNDS (ft.-lb.)	INCH POUNDS (in.-lb.)
10	7.37	88.51
20	14.75	177.01
30	22.12	265.52
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

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
325	27.08	36.72
350	29.17	39.54
375	31.25	42.37
400	33.33	45.19
425	35.41	48.01
450	37.50	50.84
475	39.58	53.66
500	41.67	56.49
525	43.75	59.31
550	45.83	62.14
575	47.91	64.96
600	50.00	67.79
625	52.08	70.61
650	54.16	73.44
675	56.25	76.26
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.

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HAS YOU COVERED

THE LX-182 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

2 YEARS
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