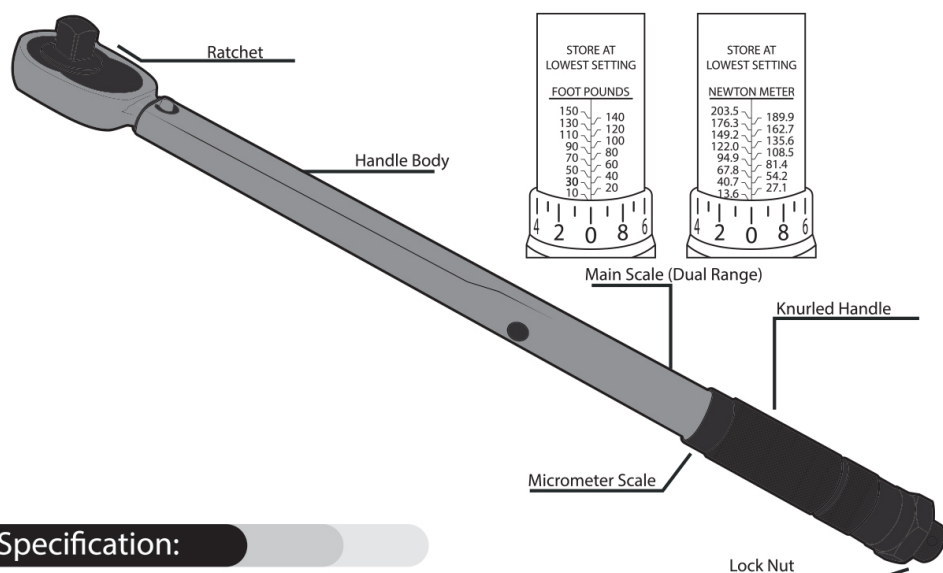




1/2 in. Drive Click Torque Wrench

10 ~ 150 ft./lb. | 13.6 ~ 203.5 N/m

SKU: ST-10A-1#PL01



Specification:

- Ratchet: Cr-V, 24-tooth gear
- Drive: 1/2"
- Length: 18-1/4"
- Accuracy: $\pm 4\%$
- Increment:
 - 1 ft./lb.
 - 1.36 N/m
- Dual Scale:
 - 10 ~ 150 ft./lb.
 - 13.6 ~ 203.5 N/m

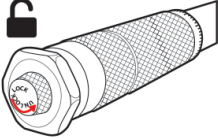


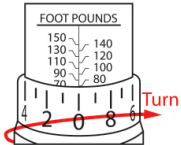
Keep the torque scale at lowest setting when not in use.

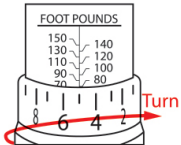
SETTING TORQUE READING

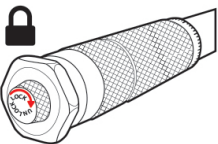


Foot Pounds (Example of setting 85 FOOT POUNDS)

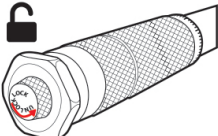
1  Locate Lock Nut on the end of the handle. Turn the Lock Nut counterclockwise to unlock the knurled handle.

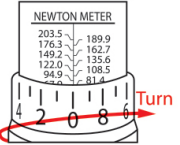
2  Setting the hundreds place digit - set 80 first: Locate "FOOT POUNDS" main scale. Turn the knurled handle counterclockwise until the top edge is aligned with "80" mark on the main scale, and the "0" mark on the micrometer scale is centered on vertical line.

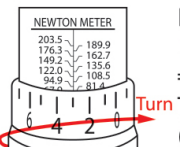
3  Setting the tens place digit - increase to 85: Every micrometer scale marking equals ONE ft./lb.. Turn micrometer handle counterclockwise until "5" mark (reads from right to left) is centered on vertical line.

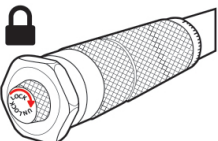
4  Turn the Lock Nut clockwise to lock torque. Now, the wrench is set at 85 ft./lb., and it is ready to use.

Newton Meters (Example of setting 85 NEWTON METER)

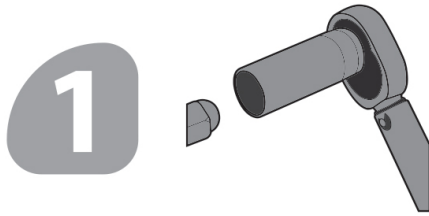
1  Locate Lock Nut on the end of the handle. Turn the Lock Nut counterclockwise to unlock the knurled handle.

2  Set 81.4 first: Locate "NEWTON METER" main scale. Turn the knurled handle counterclockwise until the top edge is aligned with "81.4" mark on the main scale, and the "0" mark on the micrometer scale is centered on vertical line.

3  Increase to 85: Every micrometer scale marking equals 1.36 N/m. (Target Torque - Previous setting) $\div$ 1.36 N/m $\Rightarrow$ $(85 - 81.4) \div 1.36 \approx "3"$. Turn micrometer handle counterclockwise until "3" mark (reads from right to left) is centered on vertical line.

4  Turn the Lock Nut clockwise to lock torque. Now, the wrench is set at approximately 85 N/m, and it is ready to use. Actual torque is $81.4 + 1.36 \times 3 = 85.48$ N/m

OPERATION



Install proper socket/attachment to the square drive and apply to nut/bolt.



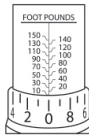
Pull the handle slowly and steady in clockwise. When the desired torque setting has been reached, you will feel and hear wrench click. **STOP PULLING: DO NOT** continue pulling on the wrench after it clicks. Wrench will automatically reset for next operation after pressure is released.

MAINTENANCE

1

Store wrench in a dry and clean environment. Do not clean it with any type of cleaner or liquid. Moisture may damage the internal components. To clean the wrench, simply just wipe it with a dry cleaning cloth.

2



Keep the torque scale at the lowest setting when not in use. The lowest setting: "10" mark for main scale and "0" mark for micrometer scale. **DO NOT** keep it below the lowest setting.

3

Operate the wrench several times at a low torque setting after not used for a long period of time. This action permits special internal lubricant to recoat internal components.

IMPORTANT

- ✓ Breaking down the wrench or adjusting calibration without proper equipment can damage the wrench to internal parts.
- ✓ Be sure to be cautious while using, like breaking loose stuck fasteners.
- ✓ Be sure to first learn the mechanism on how the wrench works. Try it on a non- critical fastener.
- ✓ The wrench will "click" once the torque value is reached. The wrench won't stop applying force by itself.
- ✓ Make sure to listen and feel the click. The click will be subtle at a low torque setting.
- ✓ Set the wrench to the lowest torque value when not in use.
- ✓ The wrench only measures torque in clockwise rotation.

TORQUE UNIT CONVERSION TABLE:

FOOT POUNDS (ft-lb)	METER KILOGRAMS (m-kg)	NEWTON METER (N-m)	NEWTON METER (N-m)	FOOT POUNDS (ft-lb)	METER KILOGRAMS (m-kg)	METER KILOGRAMS (m-kg)	FOOT POUNDS (ft-lb)	NEWTON METER (N-m)
5	0.69	6.78	10	7.38	1.02	1	7.23	9.81
10	1.38	13.56	20	14.75	2.04	2	14.47	19.61
15	2.07	20.34	30	22.13	3.06	3	21.70	29.42
20	2.77	27.12	40	29.50	4.08	4	28.93	39.23
25	3.46	33.90	50	36.88	5.10	5	36.17	49.03
30	4.15	40.67	60	44.25	6.12	6	43.40	58.84
35	4.84	47.45	70	51.63	7.14	7	50.63	68.65
40	5.53	54.23	80	59.00	8.16	8	57.86	78.45
45	6.22	61.01	90	66.38	9.18	9	65.10	88.26
50	6.91	67.79	100	73.76	10.20	10	72.33	98.07
55	7.60	74.57	110	81.13	11.22	11	79.56	107.87
60	8.30	81.35	120	88.51	12.24	12	86.80	117.68
65	8.99	88.13	130	95.88	13.26	13	94.03	127.49
70	9.68	94.91	140	103.26	14.28	14	101.26	137.29
75	10.37	101.69	150	110.63	15.30	15	108.50	147.10
80	11.06	108.47	160	118.01	16.32	16	115.73	156.91
85	11.75	115.24	170	125.39	17.33	17	122.96	166.71
90	12.44	122.02	180	132.76	18.35	18	130.19	176.52
95	13.13	128.80	190	140.14	19.37	19	137.43	186.33
100	13.83	135.58	200	147.51	20.39	20	144.66	196.13
105	14.52	142.36	210	154.89	21.41	21	151.89	205.94
110	15.21	149.14	220	162.26	22.43	22	159.13	215.75
115	15.90	155.92	230	169.64	23.45	23	166.36	225.55
120	16.59	162.70	240	177.01	24.47	24	173.59	235.36
125	17.28	169.48	250	184.39	25.49	25	180.83	245.17
130	17.97	176.26	260	191.77	26.51	26	188.06	254.97
135	18.66	183.04	270	199.14	27.53	27	195.29	264.78
140	19.36	189.81	280	206.52	28.55	28	202.52	274.59
145	20.05	196.59	290	213.89	29.57	29	209.76	284.39
150	20.74	203.37	300	221.26	30.59	30	216.99	294.20
155	21.43	210.15	310	228.64	31.61	31	224.22	304.01
160	22.12	216.93	320	236.02	32.63	32	231.46	313.81
165	22.81	223.71	330	243.39	33.65	33	238.69	323.62
170	23.50	230.49	340	250.77	34.67	34	245.92	333.43
175	24.19	237.27	350	258.15	35.69	35	253.16	343.23
180	24.89	244.05	360	265.52	36.71	36	260.39	353.04
185	25.58	250.83	370	272.90	37.73	37	267.62	362.85
190	26.27	257.61	380	280.27	38.75	38	274.85	372.65
195	26.96	264.38	390	287.65	39.77	39	282.09	382.46
200	27.65	271.16	400	295.02	40.79	40	289.32	392.27
205	28.34	277.94	410	302.40	41.81	41	296.55	402.07
210	29.03	284.72						
215	29.72	291.50						
220	30.42	298.28						
225	31.11	305.06						
230	31.80	311.84						
235	32.49	318.62						
240	33.18	325.40						
245	33.87	332.18						
250	34.56	338.95						
255	35.26	345.73						
260	35.95	352.51						
265	36.64	359.29						
270	37.33	366.07						
275	38.02	372.85						
280	38.71	379.63						
285	39.40	386.41						
290	40.09	393.19						
295	40.79	399.97						
300	41.48	406.75						
305	42.17	413.52						

CONVERSION FORMULAS

1 in-lb =	1 ft-lb =	1 N-m =	1 m-kg =
0.0833 ft-lb	0.138 m-kg	0.7375 ft-lb	7.233 ft-lb
0.1129 N-m	12.0 in-lb	8.8507 in-lb	86.79 in-lb
0.0115 m-kg	1.355 N-m	0.1019 m-kg	9.806 N-m
1.1521 cm-kg	13.82 cm-kg	10.19 cm-kg	100.0 cm-kg



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