

MICROMETER ADJUSTABLE TORQUE WRENCH

5-80 lb-ft (P/N 151528)
20-150 lb-ft (P/N 151529)

INSTRUCTIONS

Balance wrench in hand with graduations visible with the marked arrow Elementary Scale up, then unlock knurled handle by turning lock nut counter clockwise.

Set amount of torque required by turning knurled handle to read exact amount on case graduations. Example: 56 lb-ft

1. Turn knurled handle until the zero graduation on the bevel edge of the knurled handle is lined up with the vertical mark on the case and is even with the 50 lb-ft. graduation.
2. Turn knurled handle clockwise until 6 lb-ft graduation on the bevel edge of the handle is in line with the vertical line on the case.
3. Lock handle securely by turning lock nut clockwise, and now wrench is set at 56 lb-ft which is ready to use. See Figures 1 and 2

Install the proper socket or attachment to the square drive and apply to nut or bolt and pull handle until you feel and/or hear wrench click. Release pull and wrench automatically resets for next operation.

DO NOT CONTINUE TO PULL AFTER WRENCH RELEASES. USE SPECIAL CARE AT LOW TORQUE SETTINGS THAT WILL PULL STOPS WHEN WRENCH CLICKS.



FIG1 50 lb-ft

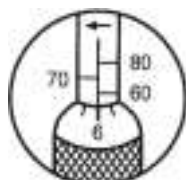


FIG2 56 lb-ft

CAUTION

1. If wrench has not been used or has been in storage for some time, operate it several times at a low torque setting which permits special internal lubricant to re-coat internal working parts.
2. When wrench is not in use, keep adjustments at lowest torque setting.
3. Do not turn handle below lowest torque setting.
4. Do not continue pulling on the wrench after pre-set torque has been reached and the wrench has been released. Pressure must be taken off the handle and the wrench allowed to automatically reset itself. Continuing to apply pressure after the wrench has been released will result in damage to the part being torqued by applying more than the specified amount of torque.
5. Tool is rugged and designed for shop use, but is also a precision measuring instrument and should be treated as such.
6. Clean wrench with soft cloth. Do not immerse wrench in any type of cleaner, as this can damage factory installed high pressure lube and damage the performance of the tool.
7. This torque wrench was calibrated and tested before leaving the factory and is accurate to ± 4%. THIS IS A PRECISION MEASURING INSTRUMENT. CALIBRATION AND SERVICING MUST BE DONE REGULARLY AND IS THE OWNER'S RESPONSIBILITY.

CONVERSION TABLES

POUND FOOT (lb-ft)	KILOGRAM METERS (KGM OR MKP)	NEWTON METERS (NM)	NEWTON METERS (NM)	POUND FOOT (lb-ft)	KILOGRAM METERS (KGM OR MKP)	KILOGRAM METERS (KGM OR MKP)	NEWTON METERS (NM)	POUND FOOT (lb-ft)
5	0.69	6.78	10	7.38	1.02	1	9.81	7.23
10	1.38	13.56	20	14.75	2.04	2	19.61	14.47
15	2.07	20.34	30	22.13	3.06	3	29.42	21.47
20	2.76	27.12	40	29.50	4.08	4	39.23	28.93
25	3.46	33.90	50	36.88	5.10	5	49.04	36.17
30	4.15	40.68	60	44.26	6.12	6	58.84	43.40
35	4.84	47.46	70	51.63	7.14	7	68.65	47.87
40	5.53	54.24	80	59.01	8.16	8	78.46	50.63
45	6.22	61.02	90	66.38	9.18	9	88.26	65.10
50	6.91	67.80	100	73.76	10.20	10	98.07	72.33
55	7.60	74.58	110	81.14	11.22	11	107.88	79.57
60	8.29	81.36	120	88.51	12.24	12	117.68	86.80
65	8.98	88.14	130	95.89	13.26	13	127.49	94.03
70	9.67	94.92	140	103.26	14.28	14	137.30	101.27
75	10.37	101.70	150	110.64	15.30	15	147.11	108.50
80	11.06	108.48	160	118.02	16.32	16	156.91	115.74
85	11.75	115.26	170	125.36	17.34	17	166.72	122.97
90	12.44	122.04	180	132.77	18.36	18	176.53	130.20
95	13.13	128.82	190	140.14	19.38	19	186.33	137.43
100	13.82	135.60	200	147.52	20.40	20	196.14	144.67
105	14.51	142.38	210	154.90	21.42	21	205.95	151.90
110	15.20	149.16	220	162.27	22.44	22	215.75	159.13
115	15.89	155.94	230	169.65	23.46	23	225.57	166.72
120	16.58	162.72	240	177.02	24.48	24	235.37	173.53
125	17.28	169.50	250	184.40	25.50	25	245.18	180.84
130	17.97	176.28	260	191.78	26.52	26	254.98	188.08
135	18.66	183.06	270	199.15	27.54	27	264.79	195.30
140	19.35	189.84	280	206.53	28.56	28	274.60	202.54
145	20.04	196.62	290	213.91	29.58	29	284.41	209.77
150	20.73	203.40	300	221.29	30.60	30	294.22	217.00
155	21.42	210.18	310	228.67	31.62	31	304.03	224.23
160	22.11	216.96	320	236.05	32.64	32	313.84	231.46
165	22.80	223.74	330	243.43	33.66	33	323.65	238.69
170	23.49	230.52	340	250.81	34.68	34	333.46	245.92
175	24.19	237.70	350	258.30	35.70	35	343.35	253.05
180	24.88	244.88	360	265.68	36.72	36	353.16	260.28
185	25.57	252.06	370	273.06	37.74	37	362.97	267.51
190	26.26	259.24	380	280.44	38.76	38	372.78	274.74
195	26.95	266.42	390	287.82	39.78	39	382.59	281.97
200	27.64	273.60	400	295.20	40.80	40	392.40	289.20
205	28.33	280.78	410	302.58	41.82	41	402.21	296.43
210	29.02	287.96						
215	29.71	295.14						
220	30.40	298.32						
225	31.09	305.50						
230	31.78	311.88						
235	32.47	318.66						
240	33.16	325.44						
245	33.85	332.22						
250	34.54	339.00						
260	35.88	352.56						
270	37.26	366.12						
280	38.64	379.68						
290	40.02	393.24						
300	41.40	406.80						

CONVERSION FORMULAS

1 CMKG = 13.887 oz-in	1 dNm = 14.16 oz-in
1 CMKG = 0.867 lb-in	1 Nm = 8.8507 lb-in
1 MKG = 7.233 lb-ft	1 Nm = 0.73756 lb-ft
1 KPCM = 1 CMKG	1 KPM = 1 MKG
1 CMKG = 0.098 Nm	1 MKG = 9.80665 Nm
1 lb-ft = 12 lb-in	

Micrometer Adjustable Torque Wrench

(5~80FT-LBS.)
(20~150FT-LBS.)

How To Use:

A. Balancing wrench in hand with graduations visible with the marked arrow Elementary Scale up, then unlock knurled handle by turning lock nut counter clockwise.

B. Set amount of torque required by turning knurled handle to read exact amount on case graduations.

Example: 56 ft. Lbs

1. Turn knurled handle until the zero graduation on the bevel edge of the knurled handle is lined up with the vertical mark on the case and is even with the 50 ft. Lbs graduation.
2. Turn knurled handle clockwise until 6 ft. Lbs graduation on the bevel edge of the handle is in line with the vertical line on the case.
3. Lock handle securely by turning lock nut clockwise, and now wrench is set at 56 ft. Lbs which is ready to use. See Figure 1 and 2

C. Install the proper socket or attachment to the square drive and apply to nut or bolt and pull handle until you feel and/or hear wrench click. Release pull and wrench automatically resets for next operation.
DO NOT CONTINUE TO PULL AFTER WRENCH RELEASES. USE SPECIAL CARE AT LOW TORQUE SETTINGS THAT WILL PULL STOPS WHEN WRENCH CLICKS.

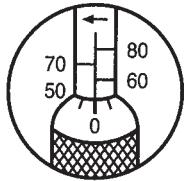


FIG1 50FT-LB

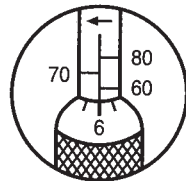


FIG2 56FT-LB

CAUTION:

1. If wrench has not been used or has been in storage for some time, operate it several times at a low torque setting which permits special internal lubricant to re-coat internal working parts.
2. When wrench is not in use, keep doing adjustment at lowest torque setting.
3. Do not turn handle below lowest torque setting.
4. Do not continue pulling on the wrench after pre-set torque has been reached and the wrench has been released. Pressure must be taken off the handle and the wrench allowed to automatically reset itself, continuing to apply pressure after the wrench has been released, will result in damage to the part being torqued by applying more than the specified amount of torque.
5. Tool is rugged and designed for shop use, but is also a precision measuring instrument and should be treated as such.
6. Clean wrench by wiping. Do not immerse in any type of cleaner which may affect special high pressure lube with which the wrench is packed at the factory.
7. This torque wrench was calibrated and tested before leaving the factory and is accurate to $\pm 4\%$. THIS IS A PRECISION MEASURING INSTRUMENT. CALIBRATION AND SERVICING MUST BE DONE REGULARLY AND IS THE OWNERS RESPONSIBILITY.

Conversion Tables

Foot Pounds (Ft. Lbs)	Kilo-gram Meters (Kgm or mkp)	Newton Meters (Nm)	Newton Meters (Nm)	Foot Pounds (Ft. Lbs)	Kilo-gram Meters (Kgm or mkp)	Kilo-gram Meters (Kgm or mkp)	Newton Meters (Nm)	Foot Pounds (Ft. Lbs)
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15	2.07	20.34	30	22.13	3.06	3	29.42	21.70
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45	6.22	61.02	90	66.38	9.18	9	88.26	65.10
50	6.91	67.80	100	73.76	10.20	10	98.07	72.33
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70	9.67	94.92	140	103.26	14.28	14	137.30	101.27
75	10.37	101.70	150	110.64	15.30	15	147.11	108.50
80	11.06	108.48	160	118.02	16.32	16	156.91	115.74
85	11.75	115.26	170	125.39	17.34	17	166.72	122.97
90	12.44	122.04	180	132.77	18.36	18	176.53	130.20
95	13.13	128.82	190	140.14	19.38	19	186.33	137.43
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110	15.20	149.16	220	162.27	22.44	22	215.75	159.13
115	15.89	155.94	230	169.65	23.46	23	225.57	166.37
120	16.58	162.72	240	177.02	24.48	24	235.37	173.60
125	17.28	169.50	250	184.40	25.50	25	245.18	180.84
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135	18.66	183.06	270	199.15	27.54	27	264.79	195.30
140	19.35	189.84	280	206.53	28.56	28	274.60	202.54
145	20.04	196.62	290	213.91	29.58	29	284.41	209.77
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190	26.26	257.64	380	280.44	38.76	38	372.78	274.74
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200	27.64	271.20	400	295.20	40.80	40	392.40	289.20
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