



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. PLEASE NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY. PLEASE KEEP THE INSTRUCTIONS SAFE FOR FUTURE USE.

amtech[®]

3PC 1/2" DRIVE TORQUE WRENCH

Stock Code: I8115

SPECIFICATIONS:

Torque range:
42-210 Nm
4.3 - 21.4 m/kg

CONTENTS:

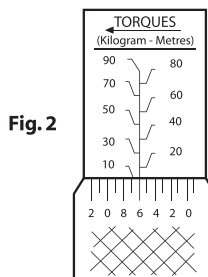
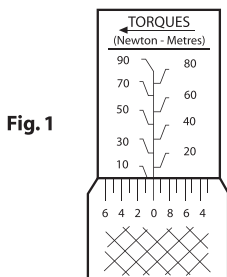
1 x 1/2" drive torque wrench
1 x 125mm extension bar
1 x 1/2" - 3/8" drive adaptor

UNPACKING: When unpacking, make sure the item is intact and undamaged.

TORQUE SETTING STEPS:

- Hold the wrench in one hand with the graduations visible.
- Set your required torque setting by turning the knurled handle (sub graduation) while grasping the wrench tube to read exact torque setting on the wrench tube graduations - example 90 Nm (Newton metres).
 - Turn the knurled handle until the zero (0) graduation on the edge is lined up with the 84 Nm vertical mark on the torque wrench shaft. Then continue to rotate the knurled handle to number 6. You have now set the torque wrench to 90 Nm (84+6).
 - If you wanted 120 Nm you would repeat step 1 so the zero (0) graduation is lined up with 126 Nm on the vertical shaft and then turn the knurled handle anti-clockwise to number 4 on the dial to achieve the 120 Nm (126 - 6).
- The torque wrench is now ready for use (see fig 1 & 2). To ensure the setting does not change during use the torque wrench is fitted with a knurled locking screw at the base. This can be tightened clockwise by hand or with a small pin or screwdriver to prevent the setting changing. Always remove the lock before changing the torque or returning it to zero (0).
- When setting for Kg metres, use the same procedures as setting for Nm.
- Install the proper socket or attachment to the square drive before applying a nut or bolt and drive the nut or bolt by rotating the wrench until you feel and/or hear the wrench click. Release the wrench from the nut or bolt which is automatically reset for next operation.

Important: Do not continue to drive the nut or bolt after the wrench clicks. Use special care at low torque settings by driving the nut or bolt slowly.



WARNING: After use, always return the torque wrench to zero to maintain the accuracy of the tool.

SAFETY INSTRUCTIONS AND CAUTIONS:

- If the wrench has not been used or has been in storage for some time, operate it several times at a low torque setting which permits a special internal lubricant to re-coat internal working parts.
- When the wrench is not in use, keep adjustment at lowest torque setting.
- Do not turn handle below lowest torque setting.

SAFETY INSTRUCTIONS AND CAUTIONS (continued):

4. Do not continue rotating the wrench after the pre-set torque has been reached, i.e. the wrench has clicked. Pressure must be taken off from the handle and the wrench will be allowed to automatically reset itself. Continuing to apply pressure after the wrench has clicked, will result in damage to the part being torqued by applying more than the specified amount of torque.
5. The wrench is rugged and designed for general DIY auto use, but is also a precision measuring instrument and should be treated as such.
6. Clean the wrench by wiping. Do not immerse it in any type of cleaner which may affect the internal mechanism.
7. Recalibration of torque wrenches may periodically be necessary with normal use. This helps assure accurate readings and properly applied torque. Ratchet mechanism should be cleaned and lubricated periodically with light grade oil to help ensure safe performance. Do not exceed torque capacity of wrench. Use of torque wrenches to break fasteners loose may cause overload.
8. Keep these instructions with the product for future reference. Ensure all persons who use this product are fully acquainted with these instructions.
9. Even when following these instructions it is not possible to eliminate all residual risk factors. Use with caution. If you are at all unsure of the correct and safe manner in which to use this tool, do not attempt to use it.
10. This tool is not intended for industrial use.
11. The use of improper accessories could be dangerous, and may invalidate your warranty.
12. Rough handling may damage the tool, and affect accuracy.
13. Store the wrench in its case or a dry place to avoid any corrosion.
14. Do not allow the wrench to get wet.
15. Keep children and unauthorised persons away from the working area.
16. Do not drop or throw the wrench.

*Your torque wrench was calibrated and tested before leaving the factory and is guaranteed to have an accuracy of $\pm 5\%$ of the set torque value. Because your torque wrench is a precision instrument, it should be serviced only where skilled persons and special tools and equipment are available.

WARNING:



Using tools can be dangerous.
Always take care and keep away
from children. Wear protective
eyewear in work area at all times.
Always wear work gloves. Select
the correct type and size of tool
for work/application.

IMPORTANT:

No liability is accepted for the incorrect use of the product. Whilst every effort has been made to ensure accuracy of information contained in this manual the DK Tools Ltd policy of continuous improvement determines the right to make modifications without prior warning.

foot pounds (ft.lbs)	kilogram metres (kg.m)	Newton metres (Nm)	Newton metres (Nm)	foot pounds (ft.lbs)	kilogram metres (kg.m)	kilogram metres (kg.m)	Newton metres (Nm)	foot pounds (ft.lbs)
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	21.7
20	2.76	27.12	40	29.5	4.08	4	39.23	28.93
25	3.46	33.9	50	36.88	5.1	5	49.04	36.17
30	4.15	40.68	60	44.26	6.12	6	58.84	43.4
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	66.36	9.18	9	88.26	65.1
50	6.91	67.8	100	73.74	10.2	10	98.07	72.33
55	7.6	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	86.8
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	137.3	101.27
75	10.37	101.7	150	110.64	15.3	15	147.11	108.5
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	130.2
95	13.13	128.82	190	140.14	19.38	19	186.33	137.43
100	13.82	135.6	200	147.52	20.4	20	196.14	144.67
105	14.51	142.38	210	154.9	21.42	21	205.95	151.9
110	15.2	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	173.6
125	17.28	169.5	250	184.4	25.5	25	245.18	180.8
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	195.3
140	19.35	189.84	280	206.53	28.56	28	274.6	202.54
145	20.04	196.62	290	213.91	29.58	29	284.41	209.77
150	20.73	203.4	300	221.29	30.6	30	294.22	217
155	21.42	210.18	310	228.67	31.62	31	304.03	224.23
160	21.11	216.96	320	236.05	32.64	32	313.84	231.46
165	22.8	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	237.7	350	258.3	35.7	35	343.35	253.05
180	24.88	244.08	360	265.68	36.72	36	353.16	260.28
185	25.57	250.86	370	273.06	37.74	37	362.97	267.51
190	26.26	257.64	380	280.44	38.76	38	372.78	274.74
195	26.95	264.42	390	287.82	39.78	39	382.59	281.97
200	27.64	271.2	400	292.2	40.8	40	392.4	289.2
205	28.33	277.98	410	302.58	41.82	41	402.21	296.43
210	29.02	284.76						
215	29.71	291.54						
220	30.4	298.32						
225	31.09	305.1						
230	31.78	311.88						
235	32.47	318.66						
240	33.16	325.44						
245	33.85	332.22						
250	34.54	339						
260	35.88	352.56						
270	37.26	366.12						
280	38.64	379.68						
290	40.02	393.24						
300	41.4	406.8						

Conversion Formulas

- 1 kg.m = 7.233 ft.lb
- 1 ft.lb = 12 in.lb
- 1 Nm = 8.8507 in.lb
- 1 Nm = 0.73756 ft.lb