

CLARKE®



1/2" TORQUE WRENCH SET MODEL NO: CHT952

PART NO: 1801952

USER INSTRUCTIONS



ORIGINAL INSTRUCTIONS

GC09/24

INTRODUCTION

Thank you for purchasing this CLARKE Torque Wrench. It should NOT be used for UNDOING nuts, as severe damage could occur. With correct use, this tool will produce an accuracy of plus or minus 4%. You can hear and feel when the desired torque setting has been reached. With careful and considerate use, the wrench will give years of reliable service.

GUARANTEE

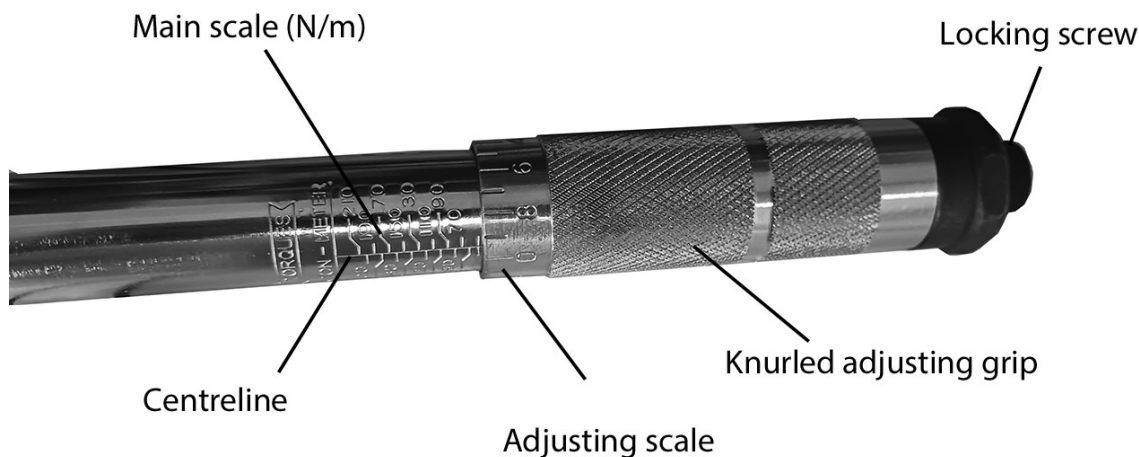
This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

USING YOUR TORQUE WRENCH



Hold the torque wrench in your left hand (if right handed) so that the required scale - foot/pounds or Newton/metres - is uppermost and visible.

Turn the knurled locking screw at the end of the handle anticlockwise to unlock the knurled adjusting grip.

Turn the adjusting grip to select the torque setting as follows. For a required setting of for example, 56ft/lb: turn the grip until top the edge of the grip is level with the 50ft/lb line on the handle scale and the zero graduation on the grip is aligned with the centre-line of the main handle scale.

Rotate the handle further, clockwise, until the '6th' graduation on the grip is aligned with the centre-line to give a setting of $50 + 6 = 56\text{ft/lb}$.

NOTE: If using the 'N/m' scale then each division on the grip graduation is equivalent to 1.36N/m.

Therefore to set wrench at 76N/m: Turn the grip until the top edge of the grip is level with the 67.8N/m line on the handle scale and the zero graduation on the grip is aligned with the centreline of the handle scale.

Rotate the handle further, clockwise, until the '6th' graduation on the grip is aligned with the centreline to give a setting of $67.8 + (6 \times 1.36) = 67.8 + 8.2 = 76\text{N/m}$.

Tighten the locking screw at the end of the handle to prevent accidental alteration of the setting.

When tightening the nut/bolt you will feel and hear the wrench mechanism click when the set torque is reached. Immediately stop applying force to wrench to avoid over-tightening the nut/bolt. The wrench will reset ready for the next application.

CARE OF THE WRENCH DURING USE

1. Insert the square drive into the socket, perpendicular to the nut/bolt to be tightened. Smoothly tighten your fastening, applying even pressure throughout.
2. **ALWAYS** use the correct size socket for the fastening and **NEVER** use sockets that are damaged. Sockets, adaptors and extensions must be robust enough for exposure to the maximum possible torque.
3. Grasp the torque wrench handle and pull on the wrench with steady movements. Always pull the wrench. **DO NOT** push the wrench handle. **NEVER** use with wet hands.
4. Check that the wrench operating range is adequate for the anticipated load before proceeding. **DO NOT** exceed the maximum rating of the wrench.
5. **NEVER** use the wrench to undo bolts & nuts which may be excessively tight. Very tight nuts and bolts should be loosened with a standard wrench and the torque wrench used only for re-tightening.
6. **DO NOT** expose to extreme temperature or humidity for extended periods.
7. Avoid using universal joints as these could result in inaccurate torque readings.

Each torque wrench has been lubricated before leaving the factory. If the wrench has not been used for some time, operate it several times allowing the lubricant to re-coat the internal working parts.

- After use, keep adjustment at lowest torque setting and do not turn handle below lowest torque setting.
- Clean by wiping the tool with a soft cloth. **NEVER** immerse it in water or any type of solvent or cleaning fluid. Store in a clean, dry environment away from excess heat, humidity or dust.

- The wrench has been calibrated at the factory order to ensure accurate readings and should not require any re-calibration. The original calibration certificate should be supplied.

CONVERSION TABLES

Newton Metres (Nm)	Pound/Foot (lbf.ft)	Kilogram Metres (kg/m)	Kilogram-force Cm
2	1.48	0.203	20.39
3	2.21	0.305	30.59
4	2.95	0.407	40.78
5	3.69	0.509	50.98
6	4.43	0.611	61.18
7	5.16	0.713	71.38
8	5.9	0.815	81.57
9	6.64	0.917	91.77
10	7.38	1.019	101.97
11	8.11	1.112	112.16
12	8.85	1.122	122.36
13	9.59	1.132	132.56
14	10.33	1.142	142.76
15	11.06	1.152	152.95
16	11.8	1.163	163.15
17	12.54	1.173	173.35
18	13.28	1.183	183.54
19	14.01	1.193	193.74
20	14.75	2.039	203.94
21	15.49	2.141	214.14
22	16.23	2.243	224.33
23	16.96	2.345	234.53
24	17.7	2.447	244.73

CONVERSION FORMULAE

$$1\text{kg cm} = 13.887 \text{ oz/in}$$

$$1\text{kg cm} = 0.08677 \text{ lbf /in}$$

$$1\text{kg/m} = 7.233 \text{ lbf/ft}$$

$$1\text{kg cm} = 0.098 \text{ N/m}$$

$$1\text{Nm} = 14.161\text{oz/in}$$

$$1\text{Nm} = 8.8507 \text{ lbf/in}$$

$$1\text{Nm} = 0.73756 \text{ lb/ft}$$

$$1 \text{ kgm} = 9.80665 \text{ N/m}$$