

# CLAMPBRO®



## 1/4" DRIVE BICYCLE TORQUE WRENCH SET MODEL NO: CHT953

PART NO: 1801953

## USER INSTRUCTIONS

UK  
CA | CE

ORIGINAL INSTRUCTIONS

GC09/24

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## INTRODUCTION

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Thank you for purchasing this CLARKE Torque Wrench. This torque wrench is designed to tighten nuts with precision. 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.

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## GUARANTEE

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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.

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## USING YOUR TORQUE WRENCH

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### TORQUE SETTING/ADJUSTMENT



The main body is marked in Newton Metres (Nm). The barrel is marked with 10 graduations; one graduation = 0.1 Nm.

To set the torque, pull the locking sleeve back and turn the body until the zero mark on the scale is in line with the next lowest graduation on the linear scale.

1. Place the square drive on to the socket, perpendicular to the nut/bolt to be tightened. Smoothly tighten your fastening, applying even pressure throughout the operation.
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 a steady movements.
4. Check that the wrench operating range is adequate for the anticipated load before proceeding. **DO NOT** exceed the maximum rating of the wrench (30Nm or equivalent units).
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 the wrench to extreme temperature or humidity or direct for extended periods.
7. Avoid using universal joints as these could result in inaccurate torque readings.
8. **ALWAYS** pull the wrench towards you,- **DO NOT** push the wrench handle. **NEVER** use the wrench with wet hands.

## CARE OF THE WRENCH DURING USE

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.
  - **DO NOT** turn handle below lowest torque setting.
  - Clean by wiping the tool and the display 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.
1. **NEVER** exceed the permitted maximum torque value for this wrench. Overloading the wrench could cause damage.
  2. Ensure that associated adaptors, extensions and sockets are rated to equal or exceed the torque being applied.
  3. **ALWAYS** use the correct size and type of socket for the nut/bolt.
    - **ALWAYS** pull the wrench towards you. **NEVER** push it away and adjust your stance to prevent a fall should something give way unexpectedly.

## 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	0.40.78	40.78
5	3.69	0.50.98	50.98
6	4.43	0.61.18	61.18
7	5.16	0.71.38	71.38
8	5.9	0.81.57	81.57
9	6.64	0.91.77	91.77
10	7.38	1.0197	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

1kg cm = 13.887 oz/in  
 1kg cm = 0.08677 lbf /in  
 1kg/m = 7.233 lbf/ft  
 1kg cm = 0.098 N/m

1Nm = 14.161oz/in  
 1Nm = 8.8507 lbf/in  
 1Nm = 0.73756 lb/ft  
 1kgm = 9.80665 N/m