

Part No. 8303
8304
8305

LASER[®]

Digital Torque Tester

1.5-30Nm | 25-500Nm | 100-2000Nm

Instructions



8303



8304



8305

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Introduction

Bench mounted digital torque tester suitable for testing any torque wrench or torque screwdriver within the specified ranges. Three versions are available:

8303 — range: 1.5 – 30Nm

8304 — range: 25 – 500Nm

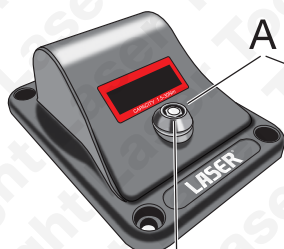
8305 — range: 100 – 2000Nm

The tester is mains powered (via a DC adaptor), features a 4-digit easy to read LED display, has a sampling rate of 333SPS and has an accuracy $\pm 1\%$. It has a robust aluminium body and features 4 mounting points allowing for it to be fixed to a solid surface, such as a workbench.

Components

8303

1.5 - 30Nm



11mm



A

8304

25 - 500Nm



27mm



A

8305

100 - 2000Nm



32mm



1/2"

3/4"

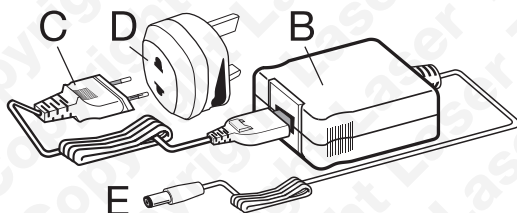


Fig 1

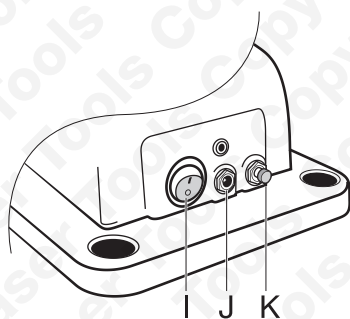
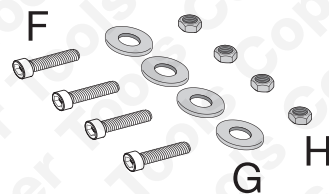


Fig 2

Instructions

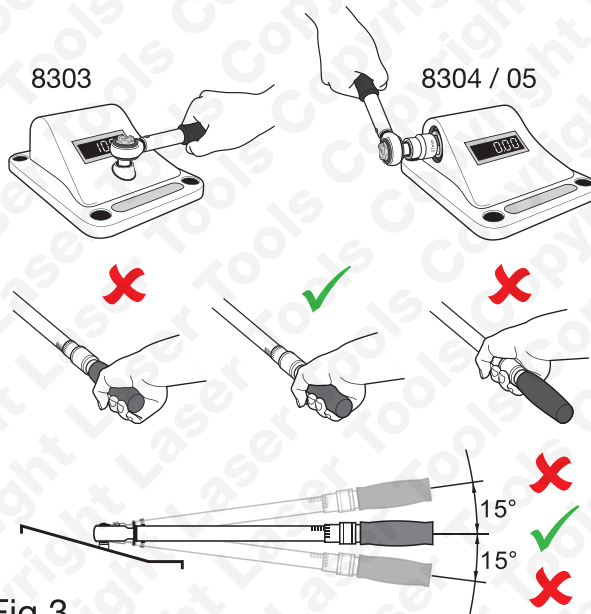


Fig 3

NOTE:

- Before using the tester ensure it is securely bolted down using the nuts, bolts and washers supplied.
- Before testing any wrench - pre-condition the torque wrench by setting it to mid-range and operating the wrench at least 5 times on a bolt mounted in a wise or similar.

This ensures the torque wrench internal spring and components are set and ready for testing.

1. Check 3 different settings across the range of the torque wrench being tested. For example, on the 8303 testing a torque wrench with the range 1.5 – 30Nm, set the wrench to be tested at 2Nm, then 15Nm, then 25Nm.
2. Refer to Figures 1 and 2: after connecting the DC adaptor (B), press the ON/OFF switch on the rear of the tester (I) to ON.
3. Press zero/reset button (K). Ensure display is at zero, then steadily apply torque (for each setting) at least 5 times. Record the torque figure from the display.
4. Press and hold (2 sec.) zero/reset button (K) again, then reset the torque wrench to the next figure to be tested. Continue with test, recording the results from the display.
5. Refer to Figure 3: For accurate readings, ensure when applying torque that the wrench is held correctly in the middle area of the handle: not too far up the shaft, or right at the end of the handle.
6. Keep the torque wrench perpendicular to the input shaft of the tester. Applying torque even at a slight angle will result in an inaccurate reading

Instructions

Specifications:

Accuracy:	±1%
Operating temperature range:	+5°C - +40°C
Storage temperature range:	-20° - +70°C
Auto reset hold time:	2 seconds
Calibration:	BS7882:2008
Sampling rate:	333SPS
Torque direction:	Clockwise only
8303 range:	1.5 – 30Nm
8304 range:	25 – 500Nm
8305 range:	100 – 2000Nm

Accessories supplied (refer to Fig 1):

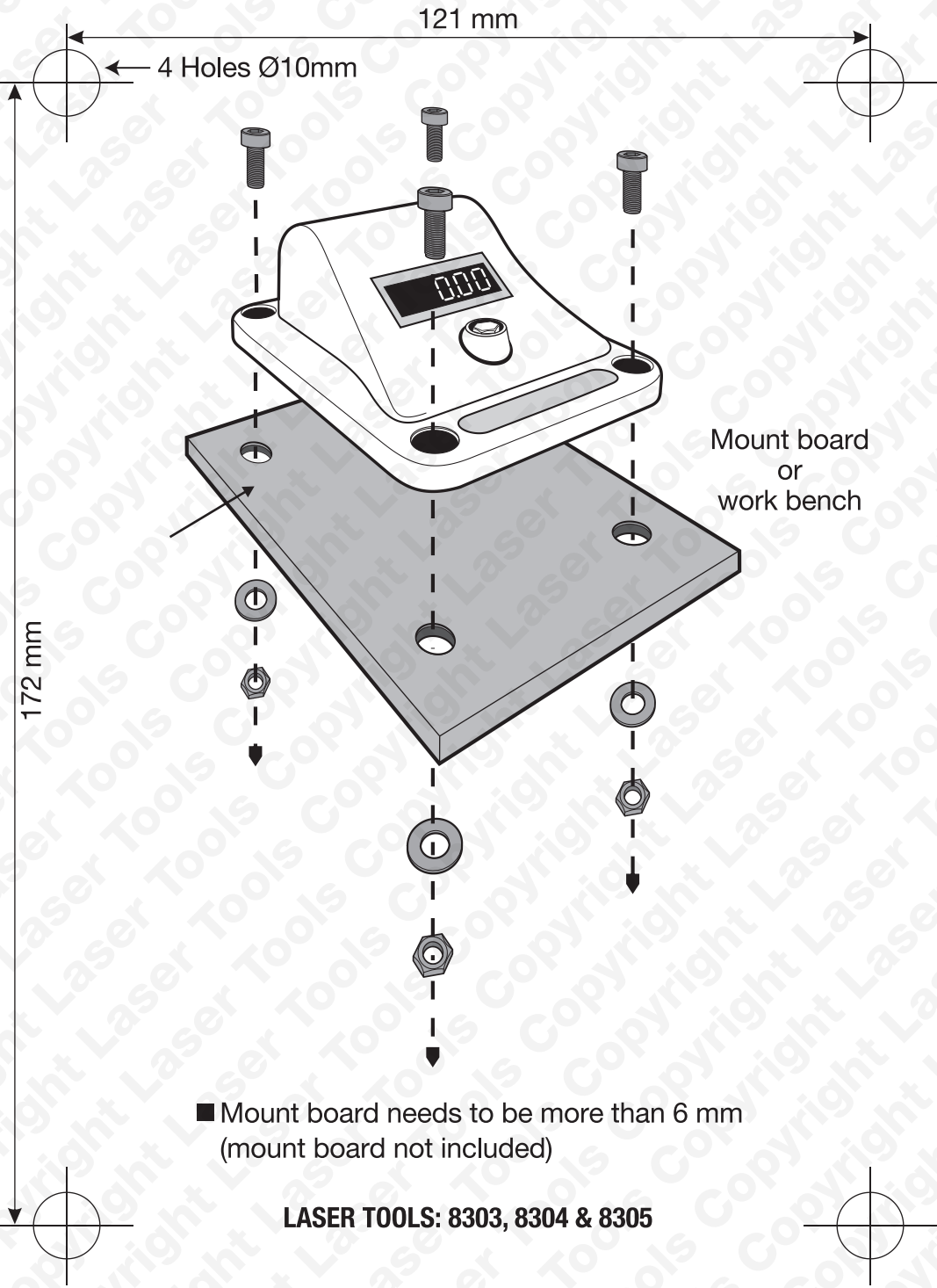
8303:	11mm 1/4"-drive socket
8304:	27mm 1/2"-drive socket; 1/2" – 3/8" drive adaptor
8305:	32mm 1/2"-drive socket; 32mm 3/4"-drive socket

Precautions:



- Wear eye and glove protection when using the tester.
- Tester must be securely mounted to bench — if the tester moves during the test, the test results will be inaccurate.
- Apply torque in a steady and controlled manner. Tightening too quickly or in a jerky manner will result in an inaccurate final torque figure.
- Stop applying torque once torque wrench has clicked to indicate that the set torque figure has been reached.
- After using the torque wrench, turn the adjusting lever to the lowest setting for storage.
- Keep tester and DC adaptor in a dry environment — keep away from water and dampness and store in a dry environment.
- Take care of the torque wrench tester and keep it clean; when finished, always return to case.

Drill template for mounting tester to work bench or mount board.



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Guarantee

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