

# LASER<sup>®</sup>

6112

## Torque Wrench - 1/2"D 11 Heads

### Instructions



## Introduction

High quality and accurate detachable-head, mechanical torque wrench supplied with a 1/2" drive ratchet head plus a selection of 10 open-ended spanner heads which enables accurate tensioning of difficult to access fasteners. Thus the torque wrench can be used in both 'ratcheting' mode and 'fixed wrench' mode. Particularly suitable where access at the front or side of the engine, or underneath the vehicle, is often tight. Torque setting can be locked for continuous accurate work.

## Features

- Display Range: 40 - 200 Nm (29.5 – 147.5 ft/lb)
- Accuracy:  $\pm 4\%$
- Unit Scales & Features: **Nm** — (ft/lb reference scale on body of wrench.)
- Reversible 1/2" drive ratchet head.
- 52 teeth ratchet mechanism; 1/2"D x 524mm long (ratchet head fitted).
- 10 x open-ended spanner heads: 13, 14, 15, 17, 19, 22, 24, 27, 30, 32mm.
- Sealed neck keeps dust and grit away from the torque mechanism for longer tool life.
- Ratchet insert head spare part available — Part no: 61339.
- Supplied with calibration certificate.
- Supplied in fitted plastic blow-mould case for security.

## Controls

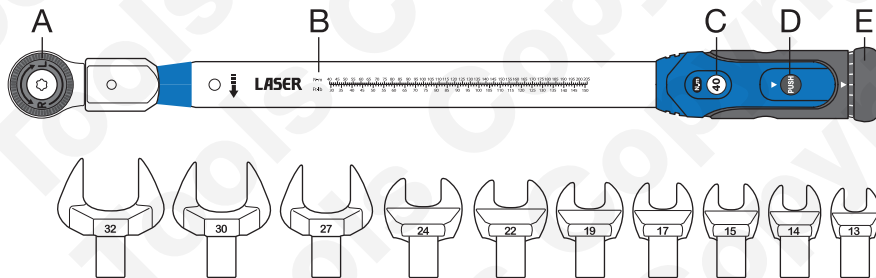


Fig 1

Ref.	Description
A	Ratchet left / right control
B	Nm - ft/lb reference scale
C	Torque adjustment indicator sight window
D	Adjustment ferrule release button
E	Adjustment ferrule

## Adjusting the Torque Setting

Refer to **Figure 1 and 2**:

1. Push ferrule release button (D).
2. Pull back adjustment ferrule (E).
3. Turn adjustment ferrule clockwise to increase (anticlockwise to decrease) the torque setting which is displayed in the adjustment indicator sight window (C).
4. To lock at the desired setting, press button D again and push back the adjustment ferrule.
5. When finished using the instrument, wind back the adjustment ferrule until the legend STOP appears in the adjustment indicator sight window (refer to **Figure 2**). Then replace instrument in case.

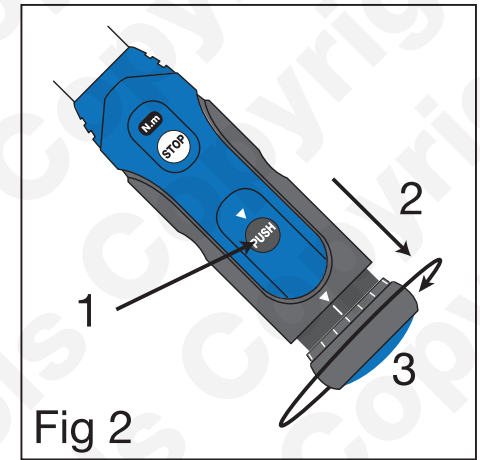


Fig 2

## Changing the Head

Refer to **Figure 3**:

1. Depress spring-loaded ball to release head.
2. Remove existing head.
3. Fit desired head and push fully home until it clicks into place.

**Note:** Although instrument is designed for measuring torque in a clockwise direction (right-hand thread) only, the heads can be fitted at 180° which will let torque be set in an anticlockwise (left-hand thread) direction if the application requires it.

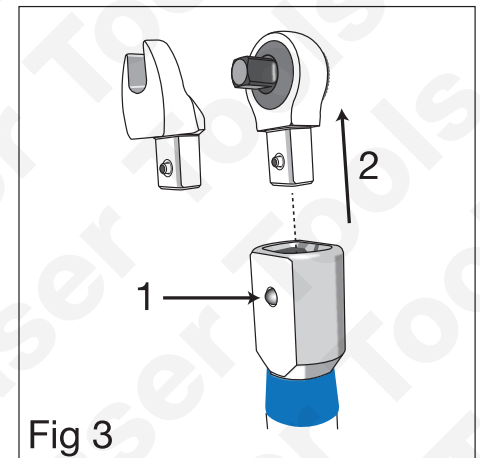


Fig 3

## Torque Wrench Calibration

Each wrench comes with its own certificate of test and calibration. The calibration certificate is produced on the date the product is tested, after manufacture and dated with this date. The product is new and un-used until it's sold, so the purchase receipt date is the start of use date.

## Precautions

- Always refer to the manufacturer's specified torque figures and methods of tightening.
- For first time use, or after a long period without use, adjust wrench up and down a few times to distribute lubricant throughout the mechanism.
- Tighten in a steady and controlled manner and stop applying pressure immediately the required setting has been reached — **when the wrench arrives at the set torque it will 'click'** — STOP applying force when the wrench clicks. DO NOT continue to apply force.
- Tightening too quickly or in a jerky manner will result in an inaccurate final torque figure.
- Do not adjust **down** to another torque setting; adjust down to zero then back **up** to the desired torque setting.
- When finished using the instrument, wind back the adjustment ferrule until the legend STOP appears in the in the adjustment indicator sight window (refer to **Figure 2**). Take care not to turn the adjuster lower than the STOP setting or the mechanism may be damaged.
- Never use the torque wrench to tighten a fastener to a higher torque than the maximum torque setting.
- Do not use the torque wrench as a breaker bar.
- Do not use the torque wrench to undo fasteners.
- Take care of the torque wrench and keep it clean; when finished, always return to case.
- Do not store in areas of high temperature or humidity.



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Distributed by The Tool Connection Ltd  
Kineton Road, Southam, Warwickshire CV47 0DR  
T +44 (0) 1926 815000 F +44 (0) 1926 815888  
info@toolconnection.co.uk [www.toolconnection.co.uk](http://www.toolconnection.co.uk)

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