

Electronic torque wrench

Item no. 18141 – 3/8" drive, 17-170 Nm

Item no. 18142 – 1/2" drive, 20-200 Nm

Instruction Manual

Scope of delivery: Torque wrench
Batteries, 4 x AAA 1,5V

Use in accordance with intended purpose

The torque wrench is designed for controlled tightening of screws and bolts. Torque wrenches are measuring / testing devices and as such they may not be used to loosen screw-connections!

Specifications

Operating voltage: 6V (4 x AAA batteries, supplied)
Ambient temperature: 0° - 40° C
Resolution: 0.1 Nm
Units of measurement: Nm – lbf.in – lbf.ft – kgf.m

Item no. 18141

Drive: 3/8" square drive (10 mm)
Measuring range: 17 – 170 Nm

Item no. 18142

Drive: 1/2" square drive (12,5 mm)
Measuring range: 20 – 200 Nm

Names and functions of parts

1. Operating button for wrench inserts
2. Direction level for clockwise / anti-clockwise rotation
3. Buzzer
4. Display
5. Control panel
6. Handle
7. Cover of the battery compartment

Display (4)

8. In "peak mode", the real-time torque reached during operation will be displayed and the maximum value is saved.
9. When loosening bolts (anti-clockwise rotation), a MINUS symbol will appear in front of the displayed value.
10. Shows the battery charge condition
11. Four-digit digital display
12. Display of the selected torque unit

Control panel (5)

13. Power ON / OFF button
14. Button for mode programming / increasing the set values
15. Switch for display mode / selector switch for the unit of measurement
16. Button for resetting saved values to "0"
17. Button for display illumination / for selecting the next digit/symbol on the digital display in the programming mode

Preparation for use

- Open the cover of the battery compartment by turning it anti-clockwise.
- Insert four AAA batteries as shown.
- Close the battery compartment by turning the cover clockwise.
- The torque wrench is now ready for use.

Turning the tool on/off

- Press the button (13) on the control panel. The buzzer sounds and on the display (4) you can see all readouts at the same time for just a moment.
- After 2-3 seconds, only the battery symbol, the value "0.0" and the units of measurement last selected are displayed.
- Press the button (13) again in order to turn off the electronic system.

Energy savings function

If no button is pressed or if operation has been completely interrupted for approx. 3 minutes, the electronic system will turn off automatically.

Changing the unit of measurement

The electronic torque wrench can be programmed to four different units of measurement: Nm, lbf.in, lbf.ft and kgf.m.

- In order to change the unit of measurement, press and keep pressed the button (15). The units of measurements on the right margin of the display will be selected in sequence (from up to down).
- When the desired unit of measurement is displayed, release the button (15).

Programming the torque

In order to access the programming mode, press the button (14).

- At first, "SET" is shown on the display for approx. three seconds. After that, the display skips to the last saved value. The first digit of this value is flashing.
- By repeatedly pressing the button (14), the value of the flashing digit is gradually increased.
- When the desired value for this digit was achieved, press the button (17) in order to skip to the next digit.
- Repeat this process for all digits (ones, tens, hundreds etc.).
- When the required value is set, press the button (15) in order to save this value.
- Make sure that the highest permissible value is not exceeded! (see "Specifications")
- After approx. 2-3 seconds the display will show "0.0"

Activating the "peak mode"

After turning on the display, the torque wrench is in "track mode", i.e. the real-time torque reached during operation will be displayed. During the "peak mode", the maximum value reached will be saved additionally and displayed permanently.

- After the programming and saving of the torque has been completed, press the button (15).
- On the left upper side of the display, "peak" is shown

Turning the display illumination on/off

The display illumination can be turned on prior to or after programming the torque.

- In order to do this, press the button (17)

Operating the torque wrench

- Select the wrench insert required for your work.
- Attach the insert firmly to the square drive of the torque wrench, until it is kept in place by the ball stop of the square drive.
- If possible, do not use any extensions because they may distort the torque applied to a bolt.
- Place the tool on the bolt or nut.
- Grip the torque wrench handle (6) and pull on the wrench with quick movements. Avoid jerky movements.
- When you approach the programmed value (+/- 5 Nm), the buzzer will sound.
- When you approach the programmed value (+/- 2 Nm), the buzzer will emit a quicker sound sequence.
- When the programmed torque has been achieved, the buzzer will emit a continuous tone and the display illumination will come on. (When the torque wrench is operated with the display illumination on, the latter will turn off when the programmed value is achieved.)

ATTENTION: When you hear the continuous tone, immediately stop pulling, especially in case the target torque is low!

Cleaning and maintenance

- Clean the torque wrench only with a dry cloth and never immerse the wrench into a cleaning agent.
- Keep the torque wrench in the appropriate storage case in a dry place.
- If the tool is not used for a longer period of time, remove the batteries in order to prevent damage from leaking.
- ATTENTION: Dispose of used batteries at a public collecting point. Do not place them in your household refuse.

The user of the torque wrench has to make a regular conformity-test with the tool after 5000 load changes and/or a maximum period of 12 months according to DIN EN ISO 6789-1, item 5.3. If this requirement is not kept, the user must be aware that the function/accuracy is no longer appropriate.

Warranty of 10 years

The warranty period for this tool starts on the day of purchase. The date of purchase can be proved by sending us the original sales receipt. During the warranty period, you are entitled to the following:

- Trouble-shooting (free of charge),
- Replacement of all defective parts (free of charge),
- Free professional service (i.e. assembly performed by our service staff is free of charge),

unless the problems and/or defects occurred due to inappropriate or incorrect use.

Should you have further questions or problems with the quality of this product, contact the manufacturer directly at:

Brüder Mannesmann Werkzeuge GmbH
Abt. Reparatur-Service
[Repair/Service Department]
Lempstr. 24

42859 Remscheid

Phone: +49 2191/37 14 71

Fax: +49 2191/38 64 77

Email: service@br-mannesmann.de

Worn-out tools and environmental protection

- Should the tool need replacement due to prior intense use or should you no longer need this tool, you are obliged to dispose of the tool in a recycling centre for electric and electronic waste.
- Information on returns centres can be obtained at your local waste management companies or administrative offices.



- The symbol depicting a crossed-out rubbish bin shows your obligation to dispose of the labelled tool at a recycling station for electric and electronic equipment.