



ELECTROMATIC Equip't Co., Inc
600 Oakland Ave.
Cedarhurst, NY 11516

Tel: 800-645-4330 / 516-295-4300
Fax: 516-295-4399

Email: info@checkline.com
Website: www.checkline.com

DTW

DIGITAL TORQUE WRENCH
Generation 2, March 2011

Operating Instructions

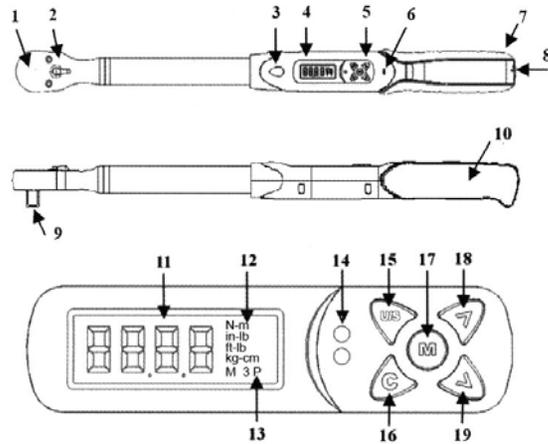


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Thank you!

Dear Customers,
Thank you for purchasing this digital torque wrench. This instruction manual will help you to use the many features of your new digital torque wrench. Before operating the torque wrench, please read this manual completely, and keep it nearby for future reference.

NAMES & FUNCTIONS OF PARTS



- | | |
|-------------------------------------|------------------------------------|
| 1. Reversible ratchet head | 11. Torque Display |
| 2. Direction lever | 12. Unit Display |
| 3. Data Port Not Used on DTW | 13. (P) Peak / (T) Track Indicator |
| 4. LCD Display | 14. LED Indicators |
| 5. Keypad | 15. U/S Menu Key |
| 6. Buzzer | 16. C Power / Zero Key |
| 7. Battery Compartment | 17. M Memory Key |
| 8. Battery Cover | 18. Up Key |
| 9. Ratchet Drive | 19. Down Key |
| 10. Handle | |

MAINTENANCE AND STORAGE

1. Do not Over-torque (105% of Max. torque capacity). Over-torquing can damage wrench or cause it to lose accuracy.
2. Do not shake or shock this wrench violently or drop it to ground.
3. Do not use this wrench as a hammer.
4. Do not expose to excessive heat, humidity, or direct sunlight.
5. Do not use the wrench near water.
6. If the wrench gets wet, wipe it with a dry towel as soon as possible. The salt in seawater can be especially damaging.
7. Do not use organic solvents, such as alcohol or paint thinner when cleaning the wrench.
8. Keep this wrench away from magnets.
9. Do not expose this wrench to dust or sand as this could cause serious damage.
10. Do not apply excessive force to the LCD panel.

WARRANTY

ELECTROMATIC Equip't Co., Inc. expressly warrants to its buyer for one (1) year from the date of delivery that the goods sold are free from defects in workmanship and materials. ELECTROMATIC Equip't Co., Inc. will, at its option, repair or replace or refund the purchase price of goods found to be defective. This remedy shall be the buyer's sole and exclusive remedy. Any modification, abuse, exposure to corrosive environment or use other than intended will void this warranty. This warranty is in lieu of all other warranties, including implied warranties of merchantability and fitness for an intended purpose. In no event shall ELECTROMATIC Equip't Co., Inc. be liable for any incidental and consequential damages in connection with goods sold or any part thereof.

TARGET TORQUE INDICATION

The DTW wrench will alert you of reaching 90% of the target value by an audible beep and a green LED light, when you hit 100% the beep will turn to a steady tone and a red light will illuminate above the green.

MEMORY

The DTW can store up to 50 readings in memory for recall on the display.

To store a reading in memory set the wrench to **P** (peak) mode and take a reading. When the reading is on the display press the **M** key to store the reading and zero the wrench.

To recall stored readings press and hold the **U/S** key for 2 seconds, the display will show **MODE**, then press **U/S** key one time, the display will alternate between **n0XX** (XX = the reading number) and the stored reading. Press the up / down arrows to toggle between readings. Press the **U/S** key twice to return to measurement mode.

To clear the stored readings press and hold the **U/S** key for 2 seconds, the display will show **MODE**, then press **U/S** key two times. CLr will be shown on the display. Press the **C** key twice to confirm the deletion of the readings. **WARNING**, this procedure will delete the entire contents of the memory, it is not possible to delete individual readings.

SPECIFICATIONS

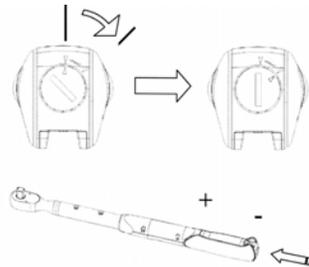
Accuracy*	Clockwise: ±2.5% Counterclockwise: ±3.5%
Capacity	DTW-265i - 265 in-lb / 30 N-m DTW-1200i - 1200 in-lb / 145 N-m DTW-100f - 100 ft-lb / 145 N-m DTW-250f - 250 ft-lb / 340 N-m
Resolution	DTW-265i - 0.1 in-lb / 0.01 N-m DTW-1200i - 1 in-lb / 0.1 N-m DTW-100f - 0.1 ft-lb / 0.1 N-m DTW-250f - 0.1 ft-lb / 0.1 N-m
Gear Teeth	36
Unit Selection	N-m, in-lb, ft-lb, kg-cm
Presets	9 Preset Targets
Memory	50 readings
Power	AA x 2
Battery Life	110 hours continuous use
Operating Temp.	-10°C ~ 60°C
Storage Temp.	-20°C ~ 70°C
Humidity	Up to 90% non-condensing
Drop Test	3m
Vibration Test	10G

*The accuracy of reading value is guaranteed from 20% to 100% of maximum range ± least significant digit. The torque accuracy is a typical value. Calibration point is at the middle line of the five anti-slip lines on the rubber handle. For highest accuracy we recommend a calibration interval of 1 year.

BEFORE USING THE WRENCH

Battery Installation

- Remove the battery cover
- Insert two (2) AA batteries with positive end facing the head of the wrench as shown in the drawing to the right
- Reinstall battery cover and rotate to lock it in place



POWER ON AND RESETTING THE WRENCH

- Press **C** to power on the wrench
- Press **C** to zero the torque wrench before use
- **NOTE:** After pressing **C** the target torque value will be displayed

ATTENTION:

1. If an external force is applied to the wrench during power-on or zeroing an initial torque offset will exist in memory.
2. The measuring unit and operating mode (track / peak) are stored in memory. Once set they will be permanently stored.

SLEEP MODE

The wrench will automatically go to sleep after 5 minutes of non-use. Press **C** to wake the wrench from sleep.

LOW BATTERY WARNING

The wrench will display a low battery symbol in the upper left corner of the LCD display when the battery voltage drops below 2.3 volts.



SELECTING UNITS OF MEASURE

The DTW wrench can display measurements in Newton Meters (**N-m**), Inch Pounds (**in-lb**), Foot Pounds (**ft-lbs**) or Kilogram Centimeters (**Kg-cm**). The selected measuring unit is displayed right side of the display.

To select the desired measuring unit press the **U/S** to switch between measuring units.

SELECTING TRACK / PEAK MODE

The DTW can display torque in **TRACK** or **PEAK** mode. When in **track** mode the wrench will display the target torque while there is no pressure applied, when pressure is applied the wrench will display real-time torque value until pressure is removed, then the display will show the target value. In **peak** mode the wrench will display the target torque while there is no pressure applied, when pressure is applied the wrench will display and hold the highest value measured until pressure is removed from the wrench then applied again or the **C** (zero) key is pressed.

To select **TRACK** or **PEAK** mode on your DTW wrench Press and hold the **U/S** key for 2 seconds, the display will show **MODE**, then press the up or down arrow keys to select between **PEAK** or **TRACK** mode (indicated by a small P or T in the bottom right corner). Then press the **U/S** key three times to confirm your selection and return to measurement mode.

SETTING TARGET TORQUE

The DTW can store 9 preset target torque values. The preset value is displayed in the screen after **C** is pressed. Press the UP / DOWN arrow keys to set the target value. To switch between the 9 presets, press the **M** key. The preset number is displayed in the bottom right of the display next to the letter M. The preset will save both target torque and unit of measure when the wrench is powered off.