

MTWD Digital Torque Wrenches

The MTWD is digital wrench that provides a digital display of torque readings. The tool is designed for daily screw tightening production environment and provides a visual, acoustic and sensory signal (handle vibrates) when the pre-set torque is reached.

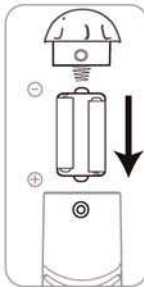
Features

- Accuracy +/- 2.5% of reading CW, +/- 1 digit
- Accuracy +/- 3% of reading CCW, +/- 1 digit
- Designed for daily screw tightening production environment.
- Program pre-set torque.
- Visual, acoustic and sensory signal (handle vibrates) when the set torque is reached.
- Four units of torque measurement available: N.m, lbf.ft, lbf.in, kgf.m
- Heavy duty bi-directional ratchet head
- Operating mode: Peak
- Holds "Peak" torque readings for 15 seconds.
- Large LCD screen for high visibility.
- Soft texture ergonomic grip.
- Four-digit display
- Battery operation

Install Batteries



1. Unscrew the screw with phillips screwdriver. Remove end cap. Remove the two battery holders.



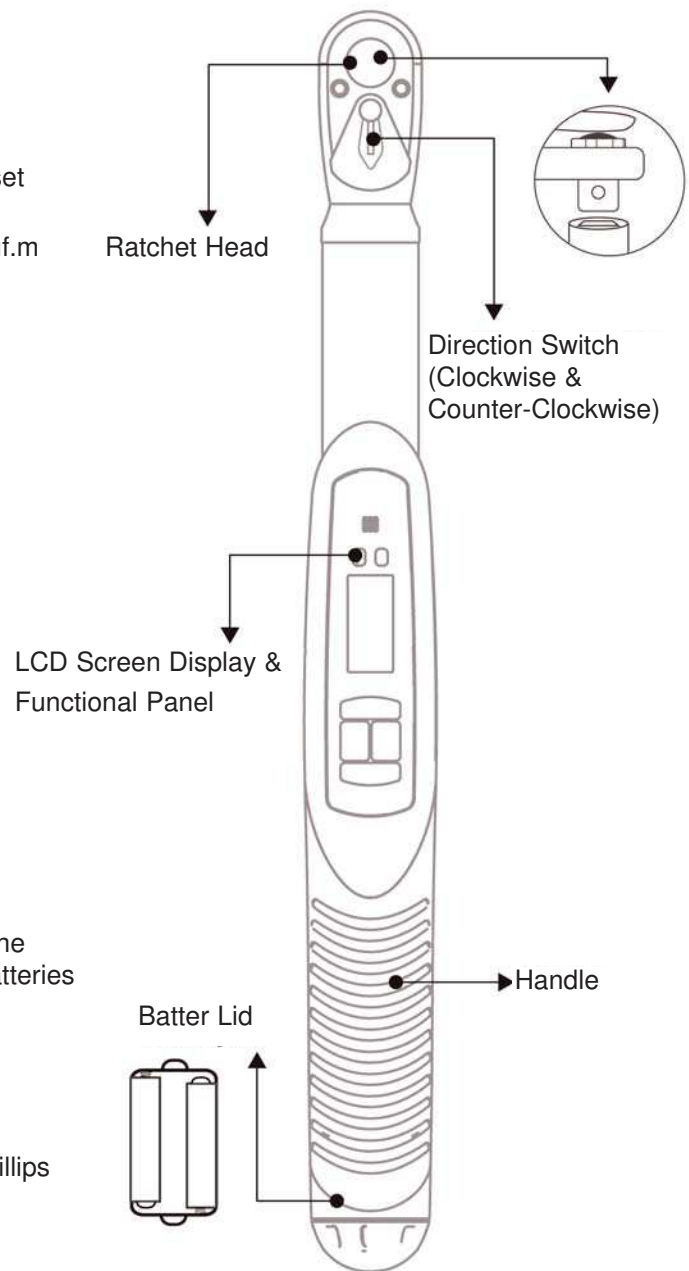
2. Install (6) high quality AAA batteries with the two battery holders. Install the batteries in the correct direction.

Notes: Remove batteries if you don't plan to use the wrench for an extended period of time. Replace batteries as soon as possible when dead.



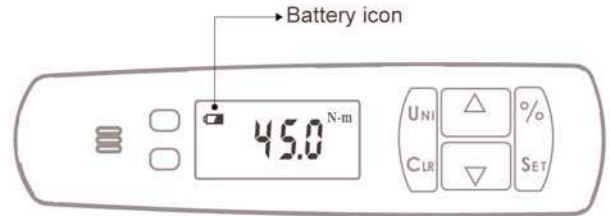
3. Insert end cap back on. Tighten the screw with phillips screwdriver.

Notes: Only use AAA batteries. Improper battery may damage torque wrench.

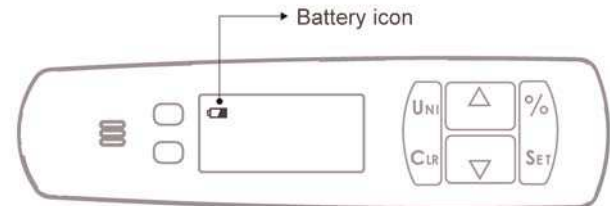


Low Battery

When battery capacity reaches a level with only 30% power left, the battery icon on the display will flash. The digital torque wrench is still workable but you should replace the battery soon.



When battery capacity reaches a level with only 10% power left, the display will show the battery icon ONLY. The digital torque wrench will no longer operate. Replace the battery immediately.

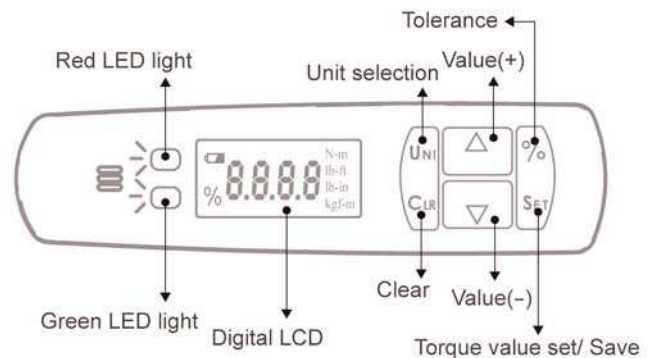


Digital Display & Functional Panel

Power On

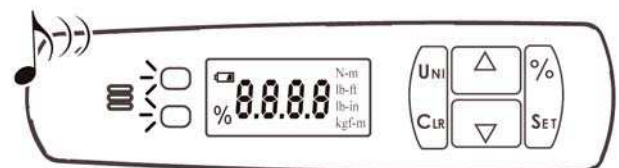
To power on the wrench: Press any key for 3 seconds.

Note! It may damage the wrench if you turn it on while applying torque.



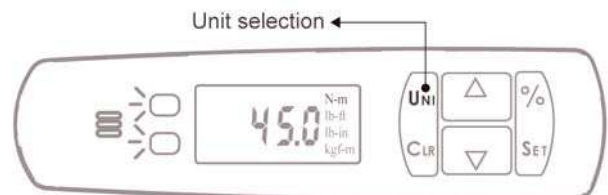
Power Off

1. Automatic: Without applying torque, the wrench automatically shuts off after 90 seconds when the display indicates "0".
2. Manual: Without applying torque, press CLR button for 5 seconds.



Switch Units

1. Press UNI button to select the torque measurement unit.
2. There are 4 torque units to select: N.m, lbf.ft, lbf.in, kgf.m



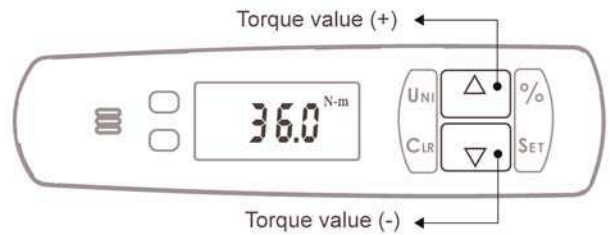
View/Change the Pre-set Torque Value:

Set the target or maximum torque value.

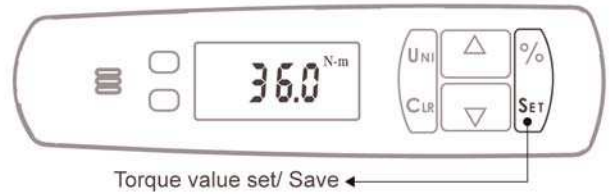
1. Without applying torque, press SET button to enter the pre-set torque value mode.



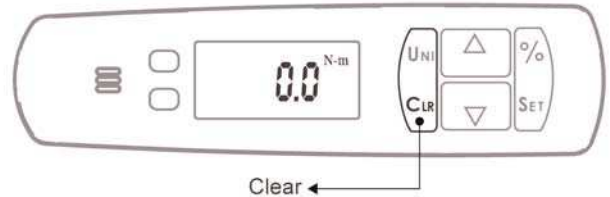
2. Press the upward arrow button to increase the torque value.
Press the downward arrow button to decrease the torque value.



3. When the pre-set torque value is reached, press SET button to save the pre-set torque value.



4. Press CLR button to leave without saving.
Auto-Exit: If Idle for 6 seconds, it will leave set-up process without saving the pre-set torque value.



Set Tolerance Setting

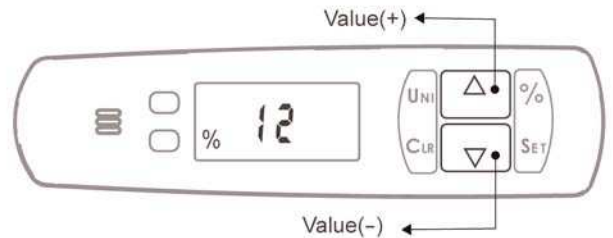
The tolerance parameters control the Go and No-Go signal response. The user sets a lower and upper torque thresholds to get a visual and audible warning signals when these limits are reached or breached during operation. This function is primarily used for safety and quality control.

The digital wrench features a tolerance range: 5% ~ 50%

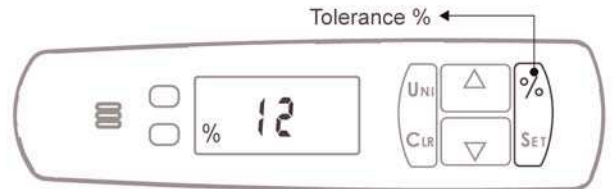
1. Without applying torque, press % button to enter the tolerance setting mode.



2. Press the upward arrow button to increase the tolerance value. Press the downward arrow button to decrease the tolerance value.



3. When the desired tolerance value is reached, press % button to save the tolerance value.

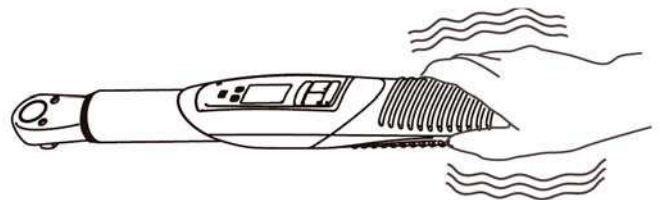


4. Press CLR button to leave without saving.
Auto-Exit: If Idle for 6 seconds, it will leave set-up process without saving the tolerance value.



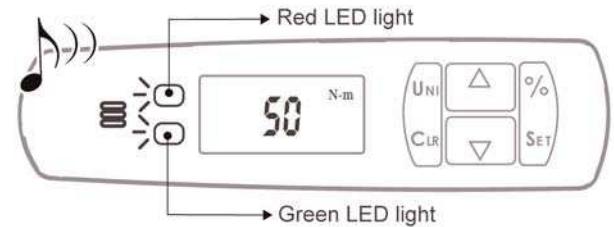
Vibration

When applied torque reaches the pre-set torque value, the handle starts vibrating. The vibration will stop once the operator stops applying torque.

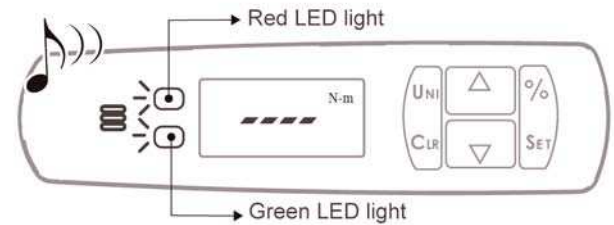


Light & Buzzer (Beep Tone) Alert

The tolerance setting provides a visual and sound signal if the torque Passed or Failed. When applied torque reaches the pre-set torque value, the GREEN & RED lights are on and the buzzer beeps continuously. The LCD display shows the maximum applied torque for 15 seconds then indicates "0".



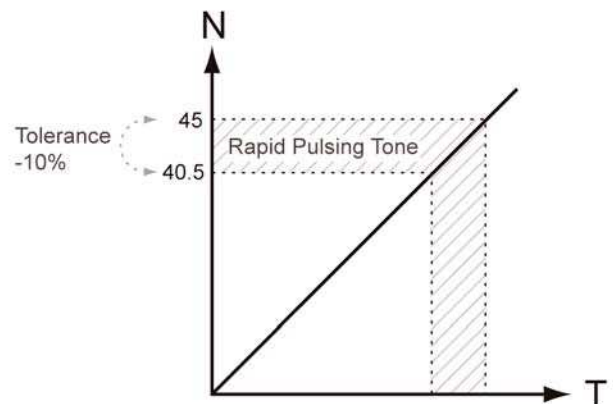
When applied torque exceeds the wrench full-scale capacity, the GREEN & RED lights are on and the buzzer beeps continuously. Display shows "----"



Example

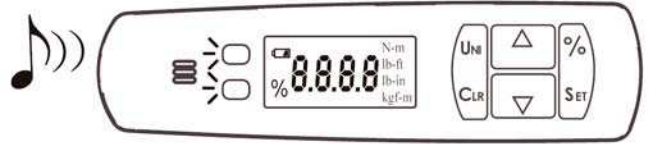
Condition: Torque value is set to 45 N.m, and the tolerance is set to -10%

An alert tone will occur at 40.5 N.m. There will be a rapid pulsing tone to indicate the torque value is closing to the target value (45 N.m).

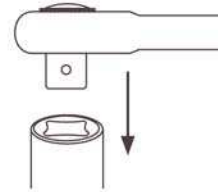


Applying Torque

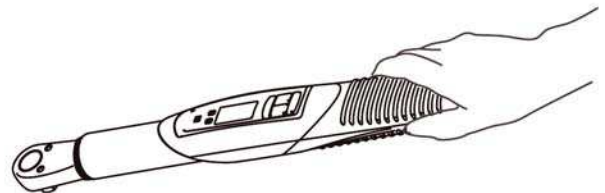
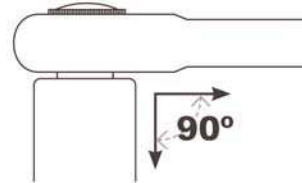
1. Make sure the digital torque wrench is not applying torque and then press any key for 3 seconds to turn on the tool.



2. Use correct size of the socket to for the application.



3. Tighten nut or bolt by applying a steady even pull using built in ratchet as necessary. Wrench should be kept at 90 degrees to axis of bolt during tightening. When pre-set torque is reached, the wrench will provide a visual, acoustic and sensory signal (handle vibrates) when the set torque is reached.



4. Press CLR button every time before operating the tool again.

