

Digital Torque Wrench Manual



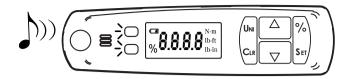
DIGITAL TORQUE WRENCH MANUAL

WARNING:

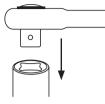
- Read this manual completely before using the digital torque wrench.
- Always turn the wrench on so the applied torque is measured.
- Do not press any key while torque is applied.
- Never use the digital torque wrench to loosen fasteners.
- Do not use extensions, such as a pipe or an iron tube, on the handle of the wrench.
- Do not apply load to the endcap. Grasp the center of the handle while applying torque.
- Over torquing can cause breakage.
- For personal safety and to avoid wrench damage, follow good professional tool practices.
- Do not use sockets or accessories showing wear or cracks, they may lead to injury.
- Use the correct size socket for the fastener.
- Be sure all components, including all adaptors, extensions, drivers and sockets are rated to match or exceed the torque being applied.
- Make sure that the wrench capacity matches or exceeds each application before proceeding.
- Verify the calibration of the wrench if you know or suspect its capacity has been exceeded.
- Observe all equipments, systems and manufacturer's warnings, cautions and procedures when using digital torque wrench.
- Make sure the direction switch is fully in the correct position.
- Adjust your stance appropriately to prevent a possible fall.
- Wear safety goggles, user and bystanders.
- Periodic recalibration is necessary to maintain accuracy.
- Do not use on live electrical circuits.
- Electrical shock can cause injury. Rubber handle is not insulated.



•Make sure torque wrench isn't being used while turning unit on.



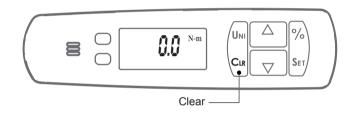
•Use correct size of the socket to load on the socket driver.

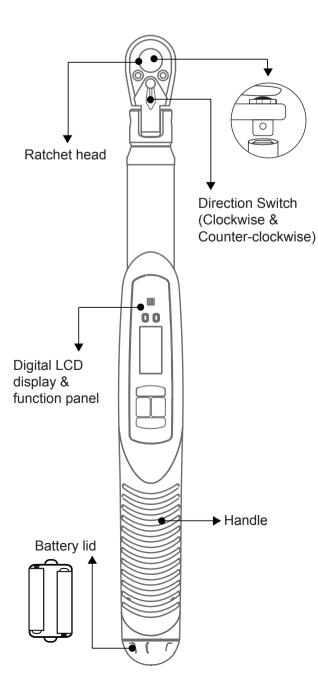


•Apply steady force and hold as close to horizontal to the socket as possible:



•Press CLR every time before a new test.





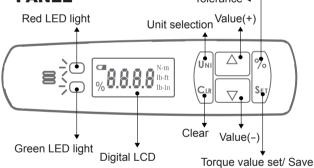
BATTERY

O Unscrew the battery lid of the handle with a PH2⊕screwdriver.

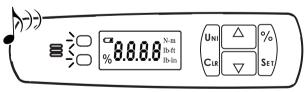
Pollow polarity instructions on battery holders and install included six AAA batteries.

Close battery lid and

DIGITAL DISPLAY & FUNCTIONAL PANEL Tolerance



• Power on: Press any key for 3 seconds.



NOTE Damage to the torque wrench may occur if the

tighten screw.



•

NOTE In order to maintain the best accuracy please "Restart" the torque wrench after installing the battery.

ABOUT THE BATTERY:

Install included "AAA" batteries with the correct polarity (+/-) indicated on the battery holder. Remove batteries if the wrench will not be used for a long period of time.

Use only new batteries and do not mix-and-match brands or old and new batteries.

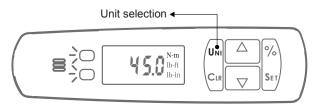
unit is turned on while force is applied to the wrench.

- Power off:
- (1). Automatic: Without applying torque, the unit will turn 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 to select the torque measurement unit.

2 3 torque units: N-m \rightarrow Ib-ft \rightarrow Ib-in



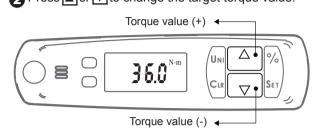
SET TORQUE

Definition: Set the target or maximum torque value.

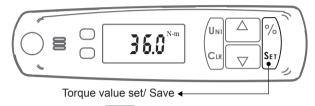
• Without applying torque, press <u>SET</u> to enter torque value setting mode.



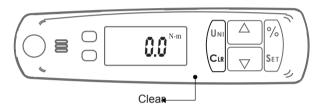
Press ▲ or ▼ to change the target torque value.



When the target torque value is reached, press SET to save the value.



NOTE Exit: Press CLR to leave without saving.



NOTE Auto-Exit: If the unit is inactive for more than 6 seconds the last value is not saved.

SET TOLERANCE %

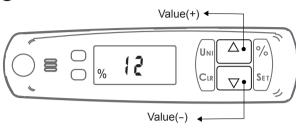
Definition: Calculate the alert torque value. Formula: Alert torque value = Target torque value x (1 – Tolerance %)

Tolerance range: $5\% \sim 50\%$

Without applying torque, press[™] to enter tolerance setting mode.
Tolerance % ←

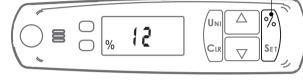


2 Press \blacksquare or \blacksquare to change the tolerance value.

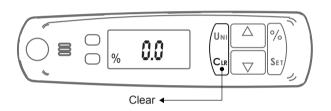


3 When the desired tolerance value is reached, press % to save the value.

Tolerance %



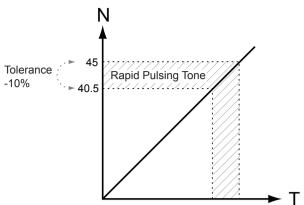
NOTE Exit: Press CLR to leave without saving.



NOTE Auto-Exit: If the unit is inactive for more than 6 " seconds the last value is not saved.

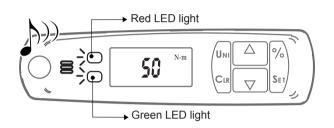
Condition: Torque value is set to 45 N-m, and the tolerance is set to -10%

An alert tone will occur at 40.5 N-m. There will be a rapid pulsing tone to indicate the torque value is approaching to the target value (45 N-m). Besides, the lower alert tone will occur at 30.4 N-m (40.5N-m x -25%). There will be a 0.5 second tone to indicate the torque value is approaching to -10% target value (40.5N-m).

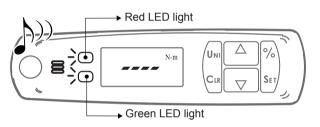


ALERT LIGHT & BUZZER (BEEP TONE)

• When applied torque reaches target torque value, the GREEN & RED lights will illuminate and the buzzer will continuously beep. The LCD will display the maximum applied torque for 15 seconds and then will indicate "0".

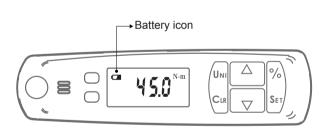


• When applied torque exceeds the wrench full-scale capacity, the GREEN & RED lights will illuminate and the buzzer will continuously beep. The display will read "---".

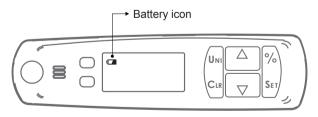


LOW BATTERY

• When battery capacity has 30% remaining, the battery icon on the display will flash. Replace batteries soon.



When the battery capacity has only 10% left the battery icon will be displayed. The unit will not work and the batteries will need to be replaced.



Driver Square	Nm	lbf-ft	lbf-in	Length mm	Kg	Driver
3/8"	10. 0 I 135. 0	7.4 I 99.6	89 I 1195	400	1.2	48 teeth, 7.5 action
1/2"	20. 0 I 200. 0	14. 8 I 147	178 I 1780	570	1.6	48 teeth, 7.5 action

SPECIFICATIONS

Model	Digital Torque Wrench		
Accuracy	CW±2.5% + 1 LSD / CCW±3% + 1 LSD		
Direction	Clockwise / Counter-clockwise		
Toque unit	N-m / lb-ft / lb-in		
Battery	6 AAA (Alkaline) x 1pc		

TORQUE CONVERSION CHART

	lbf-in	lb-ft	Nm	kgf-cm
1 lb-in	1	0.083	0.113	1.152
1 lb-ft	12	1	1.356	13.83
1Nm	8.851	0.737	1	10.2
1 kgf-cm	0.868	0.072	0.098	1

Operate 5 ~ 42°C, 40~107°F Temperature

Store Temperature - 20 ~ 50°C, -4~120°F