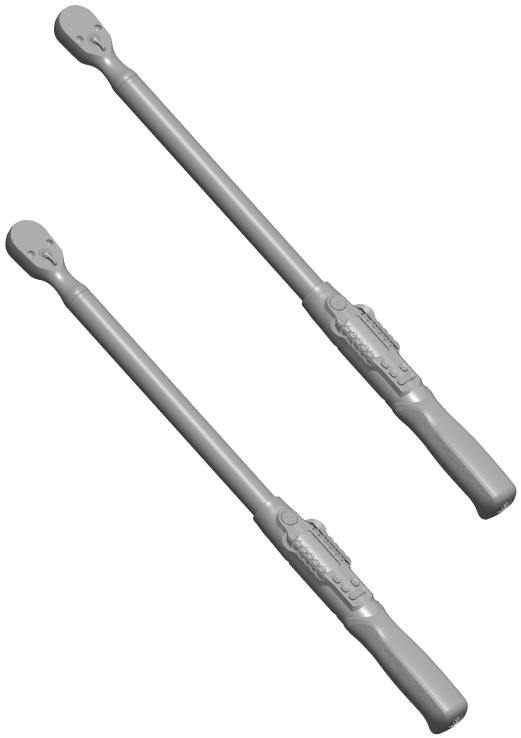
Chicago Pneumatic

Safety Information

Printed Matter No. 8940177492
Date: 2024-06 Issue No. 01

Model:
CP8916
CP8916TC
CP8918
CP8918TC



	⚠ WARNING
	To reduce risk of injury, everyone using, installing, repairing, maintaining, changing accessories on, or working near this tool MUST read and understand these instructions before performing any such task. **DO NOT DISCARD - GIVE TO USER**

Schema 1: Dimensions

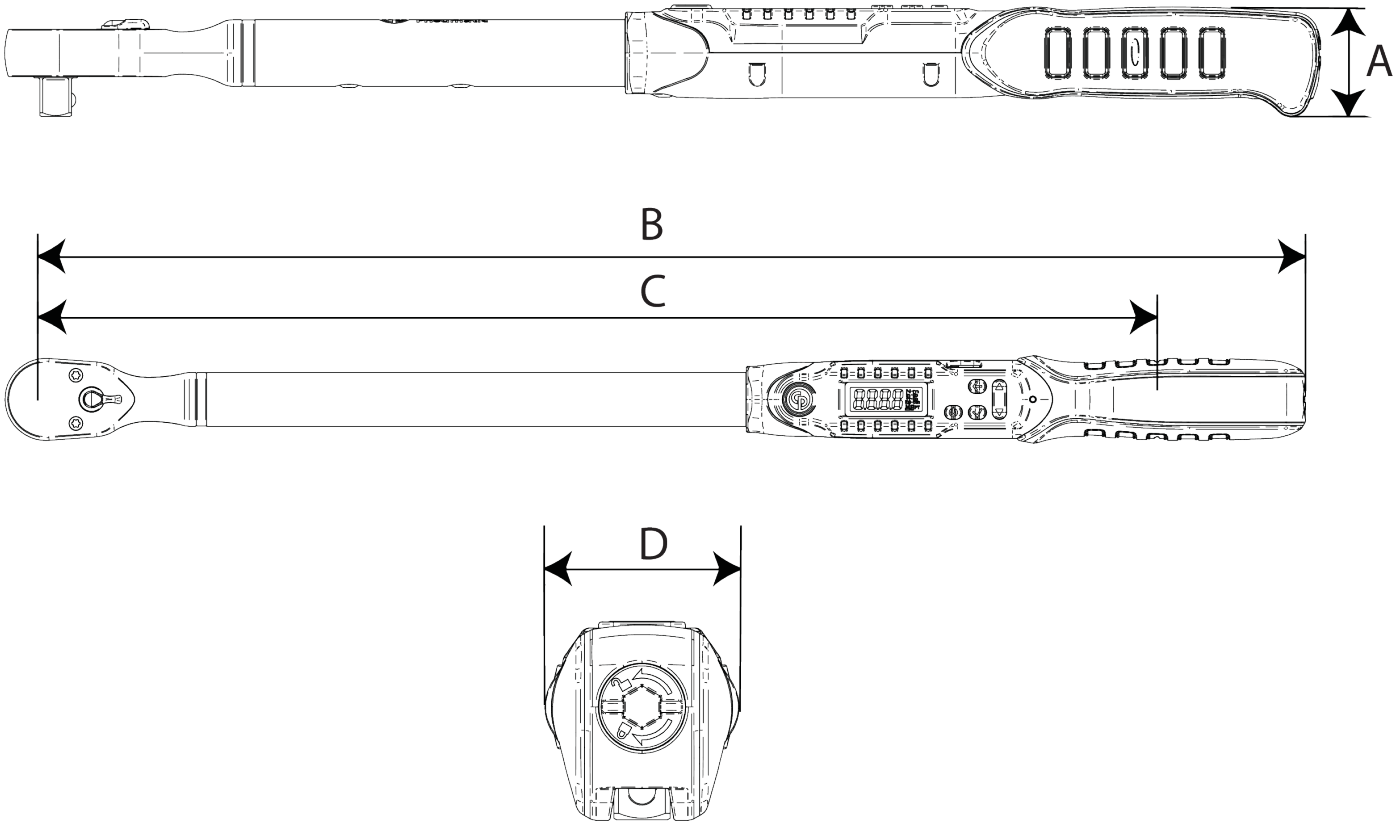


Table 1

	CP8916	CP8916TC	CP8918	CP8918TC
Minimum (N.m)	10	10	17	17
Maximum (N.m)	200	200	340	340
Overload (N.m)	220	220	374	374
Minimum (ft-lb)	7	7	12	12
Maximum (ft-lb)	147	147	250	250
Overload (ft-lb)	161.7	161.7	275	275
Weight (kg)	1.3	1.3	1.5	1.5
Weight (lb)	2.9	2.9	3.3	3.3
Max Torque (N.m)	200	200	340	340
Max Torque (ft.lbs)	147	147	250	250
Square Drive	½''	½''	½''	½''
Torque Measuring Range (N.m)	10 – 200	10 – 200	17 – 340	17 – 340
Torque Measuring Range (ft.lbs)	7 – 147	7 – 147	12 – 250	12 – 250
Torque Measuring Range (mm)	530	530	650	650
Torque Measuring Range (inch)	21	21	25.6	25.6
Weight (kg)	1.3	1.3	1.5	1.5
Weight (lb)	2.9	2.9	3.3	3.3
A	45 mm 1.8''	45 mm 1.8''	45 mm 1.8''	45 mm 1.8''

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	CP8916	CP8916TC	CP8918	CP8918TC
B	434.7mm 17.11’’	434,7mm 17.11’’	628.8mm 24.75’’	628.8mm 24.75’’
C	628.8mm 24.75’’	628.8mm 24.75’’	554.7mm 21.84’’	554.7mm 21.84’’
D	44 mm 1.7’’	44 mm 1.7’’	44 mm 1.7’’	44 mm 1.7’’

Table 2

All Models	
Accuracy *1	+/-3%
Data memory size	2000
BLE Connectivity *2	Yes
Bright LED	12 LED (2Blue/Red + 10 Green)
Operation Mode	Torque, Torque with rehit detection, Torque Check, angle, counting sequence
Unit Selection	N.M / ft.lb / degrees
Head type	Lever Type Ratchet
Gear Teeth	72
Button	5
Battery	AA x2 (not included)
Operating Temperature	-10°C to 40°C
Storage Temperature	-20°C to 70°C
Humidity	Up to 90% non-condensing
Drop test	1m
Vibration Test *3	10G
Environmental test *4	Pass
Electromagnetic compatibility test *5	Pass
Auto Idle	After 1min without actions
Auto Off	After 30mins without actions

Communication	
B	No Bluetooth & No angle Measurement
	Bluetooth5.2 & Angle Measurement

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Schema 2: NAME AND FUNCTION OF PARTS

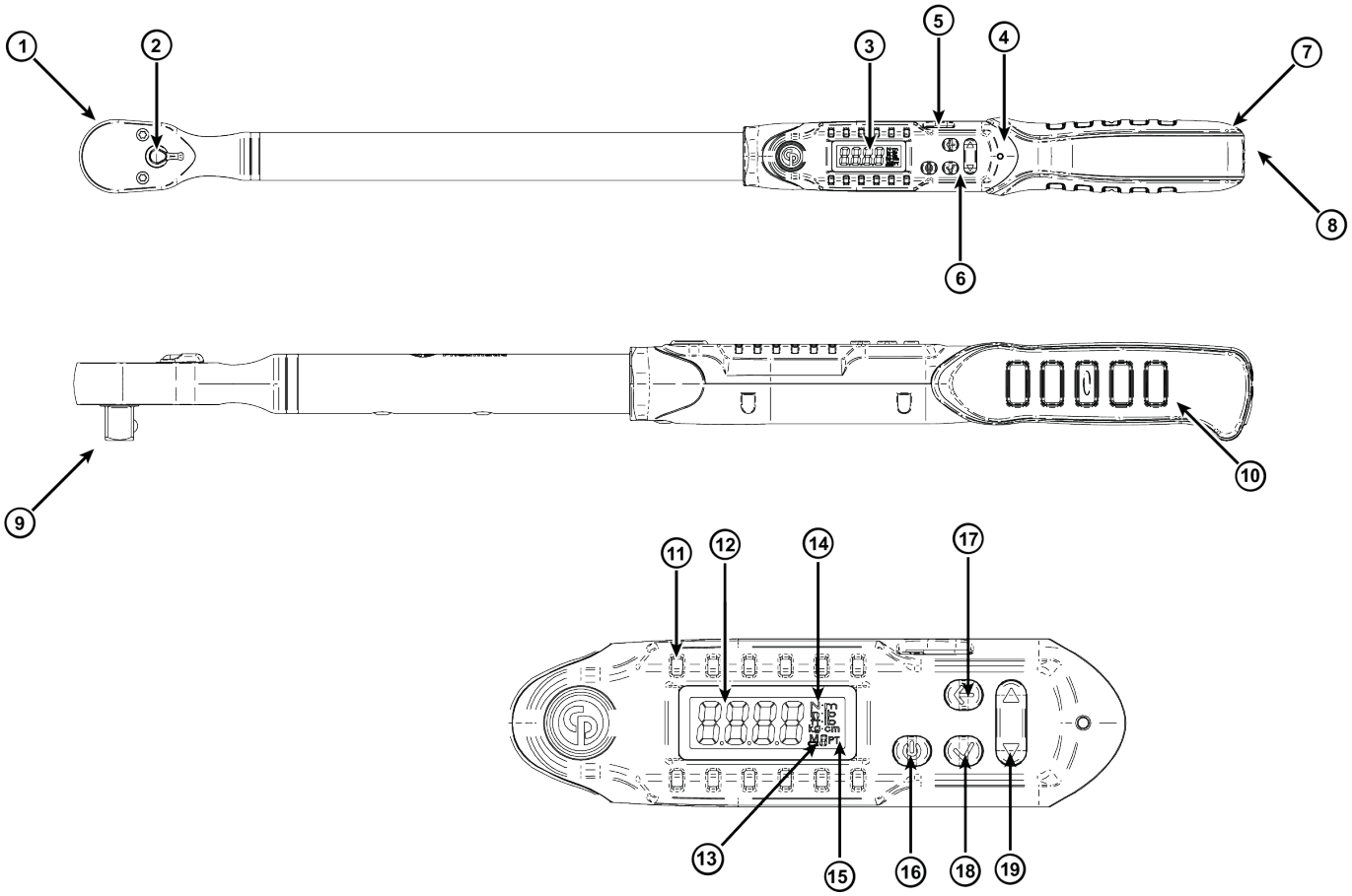

Table 2

1. Reversible Ratchet Head
2. Direction Lever
3. LCD Display
4. Buzzer
5. Communication Port
6. Buttons
7. Battery Compartment
8. Battery Cap
9. Ratchet Drive
10. Anti-slip Handle
11. LED Indicator
12. Torque Value
13. Pre-setting Index
14. Units (N-m, ft-lb)
15. [T]:Torque check mode [ ]: other modes
16. Power On/Off
17. Return Button
18. Enter/Setting Button
19. Up / Down Button

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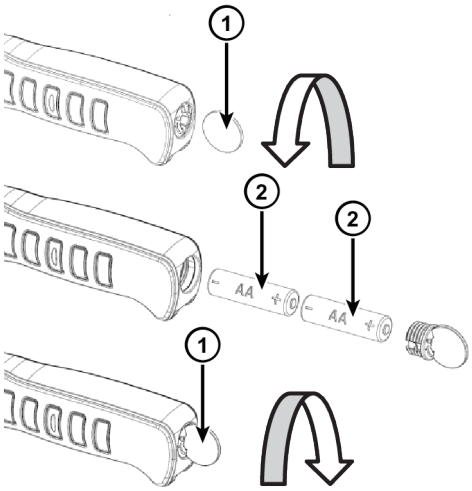
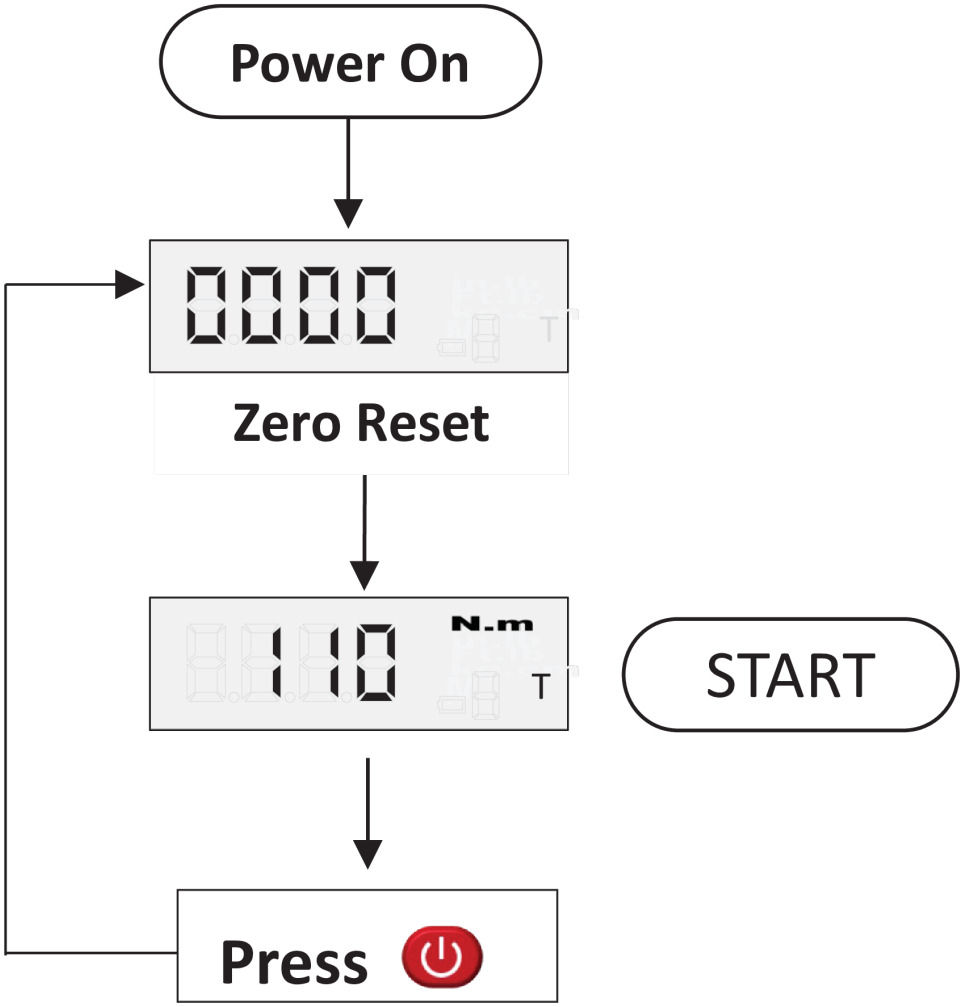
Schema 3



Schema 4



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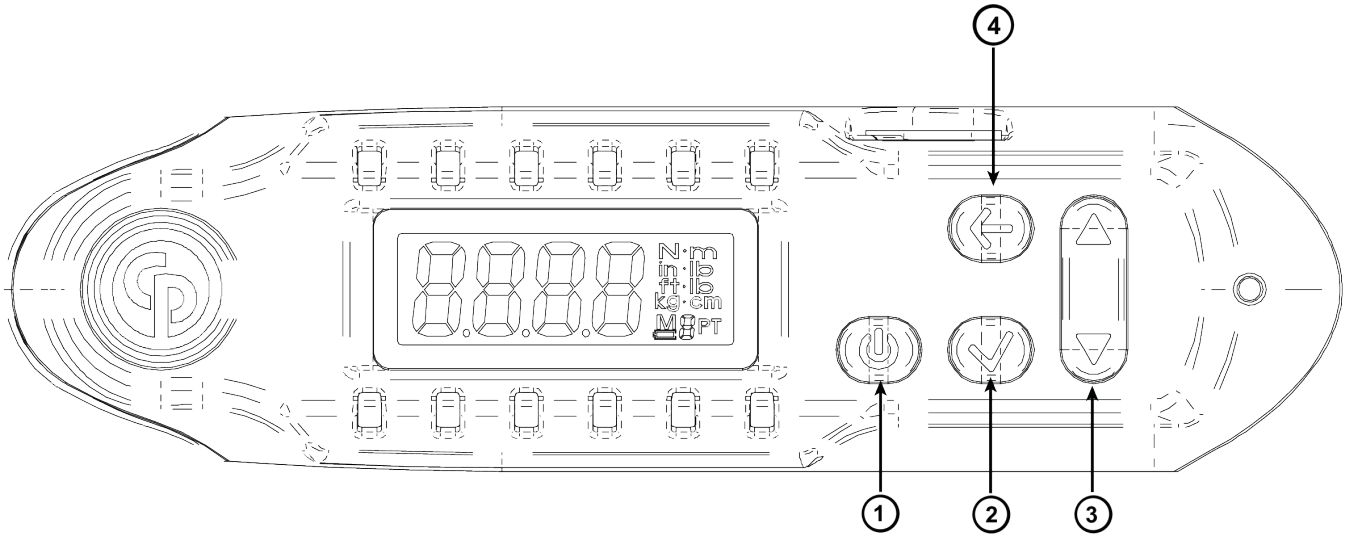
Schema 5



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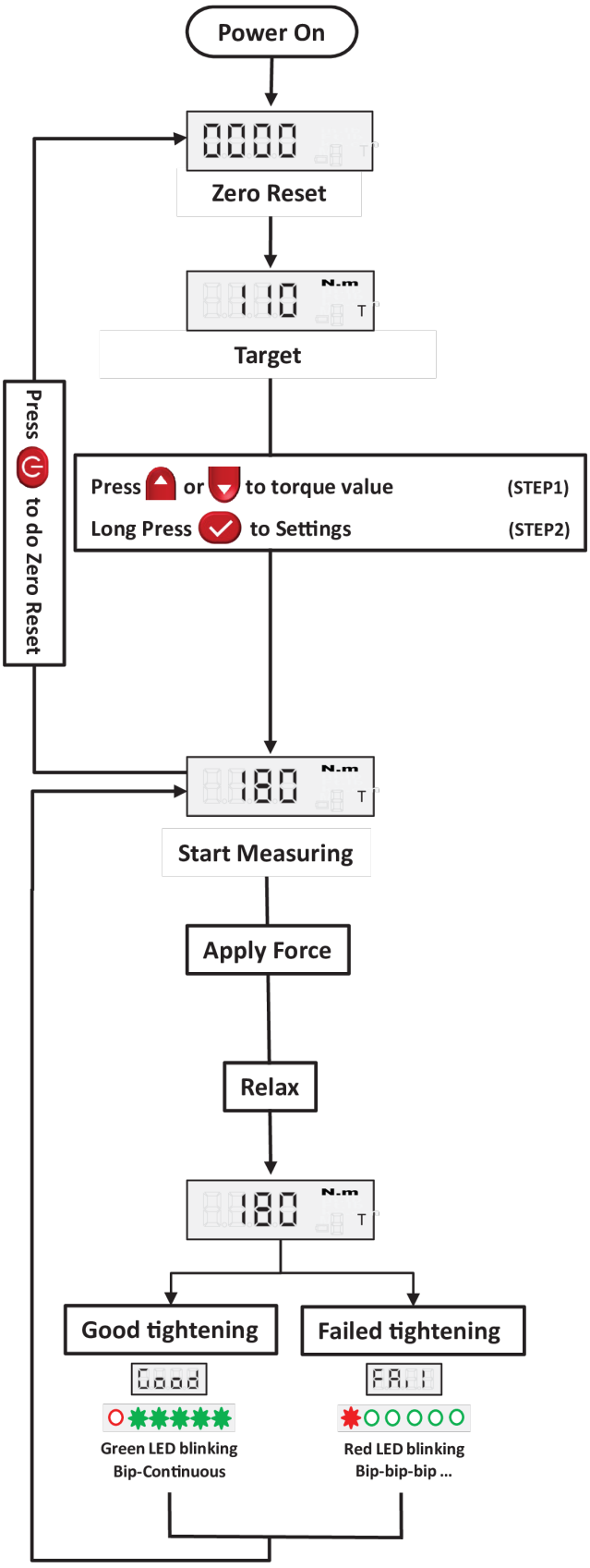
Schema 6



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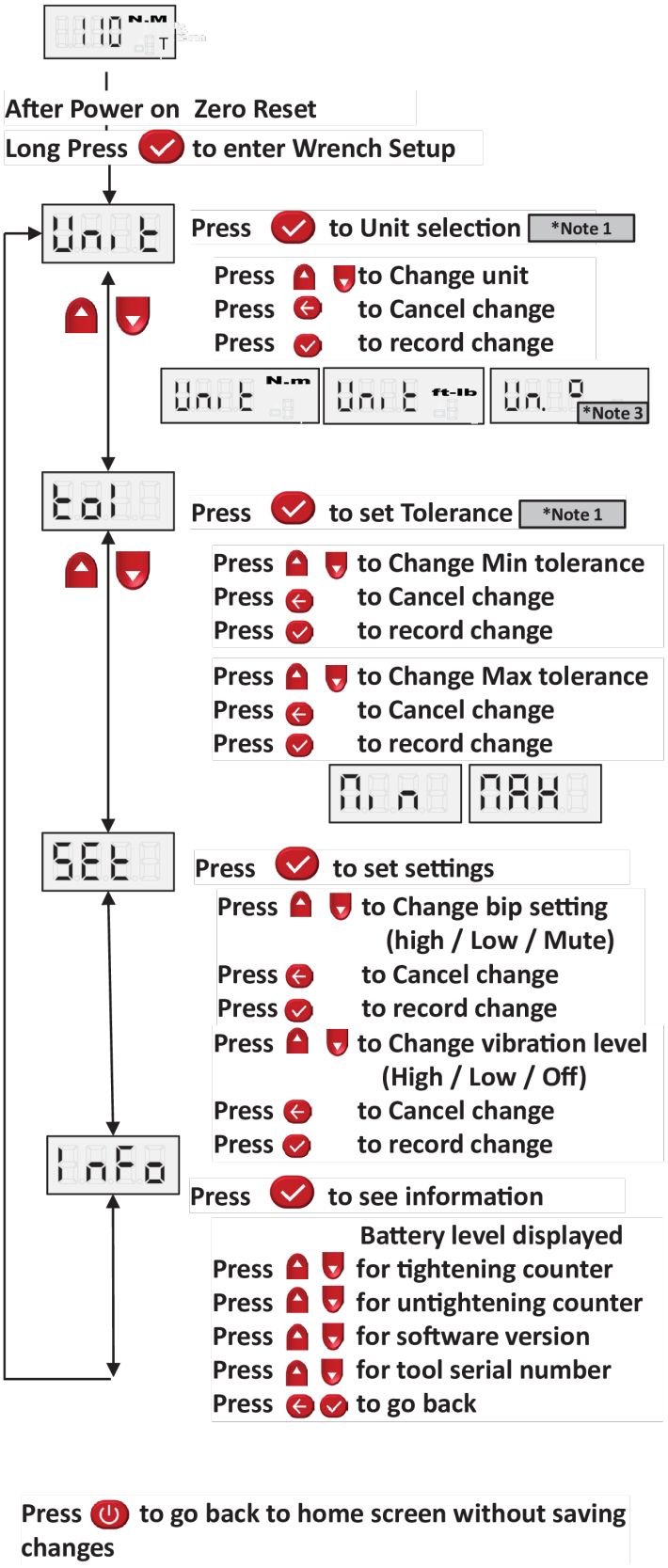
Schema 7



Press to go back to home screen without saving changes

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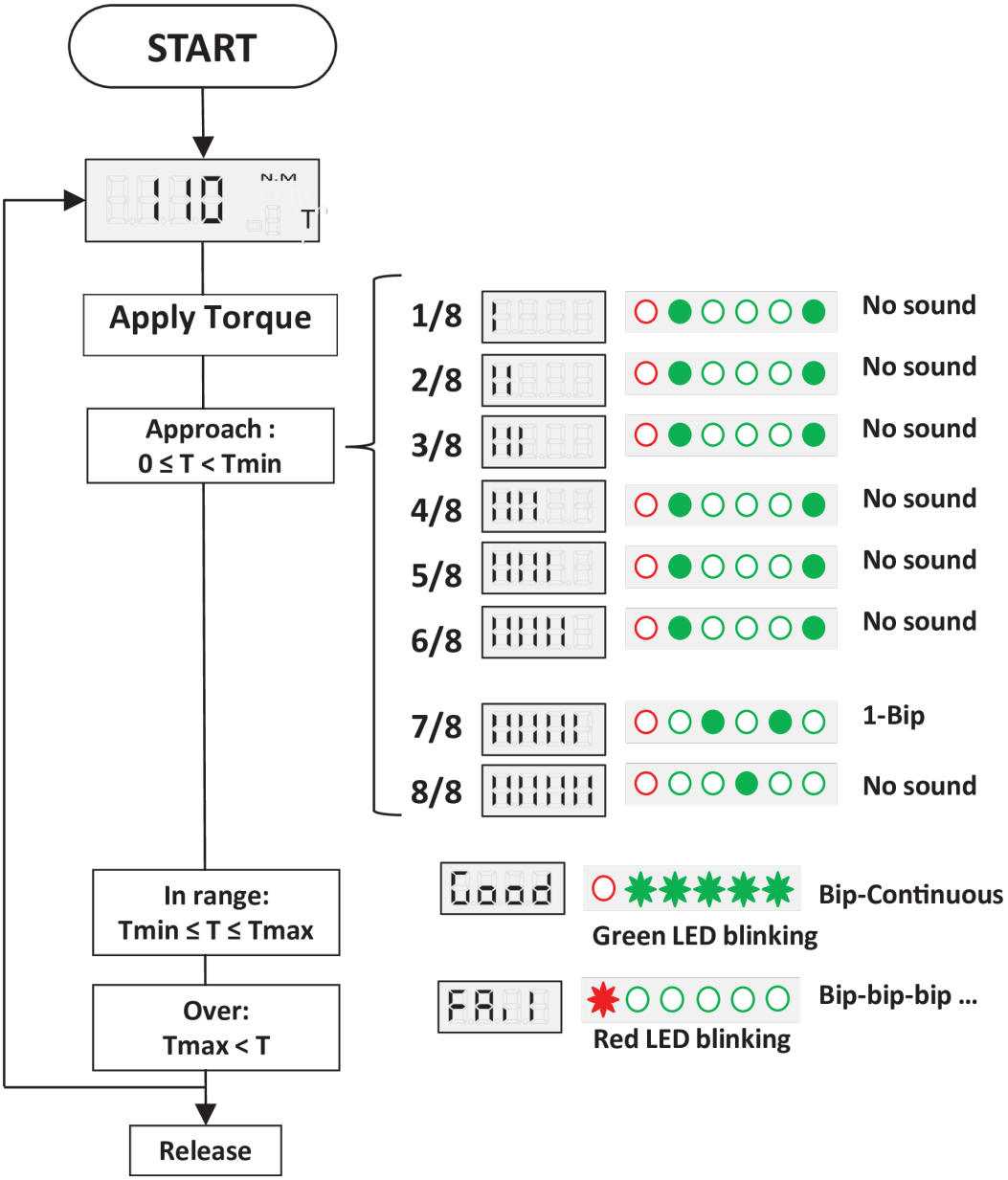
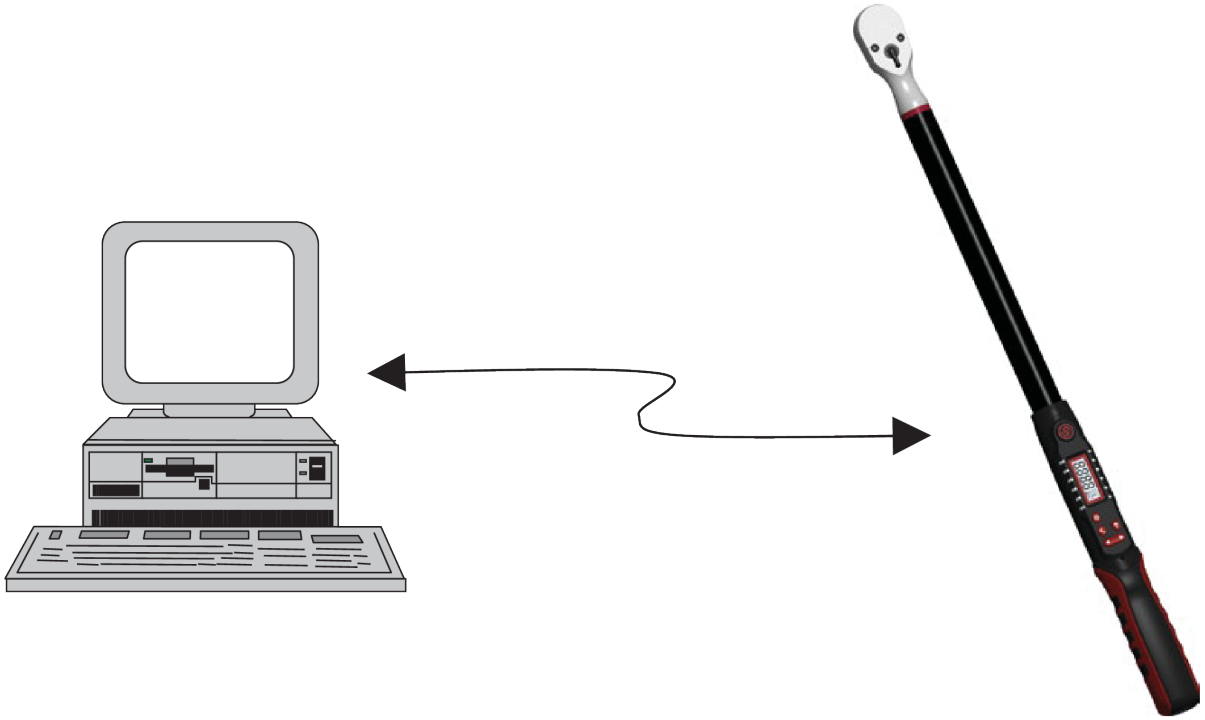
Schema 8


START
110
N.M
Apply Torque
Approach :
0 ≤ T < Tmin
1/8
No sound
2/8
No sound
3/8
No sound
4/8
No sound
5/8
No sound
6/8
No sound
7/8
1-Bip
8/8
No sound
In range:
Tmin ≤ T ≤ Tmax
Good
Bip-Continuous
Green LED blinking
Over:
Tmax < T
FAIL
Bip-bip-bip ...
Red LED blinking
Release

Schema 9



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Technical Data

Technical information

- Operating torque range: From 20% to 100% of the capacity
- Torque accuracy: +/-3% (within the operating torque range) *1
- Torque overload capacity: 110% of the capacity
- Minimum angular speed: 0,1°/sec*2
- Angle measurement accuracy: +/-2° (rotating 90° at angular velocity speed of 30°/sec)*2
- Maximum angular speed: 100°/sec*2
- Results memory capacity: 2000
- Unit of measurement supported: N.m, ft-lb
- ISO 6789:2017 compliant

ⓘ The torque accuracy is a typical value. For keeping the accuracy, calibrate the wrench for a constant period time (1 year). The accuracy is based on the zero degree of offset from perpendicular drive.

Angle measurement available only with Models CP8916TC and CP8918TC

Storage and use conditions

Operating temperature	-10°C to 40°C
Storage temperature	-20°C to 70°C
Humidity	Up to 90% non-condensing
Indoor Use Only	

1. The accuracy of the readout is guaranteed from 20% to 100% of maximum range + /- 1 increment. The torque accuracy is a typical value. For keeping the accuracy, calibrate the wrench for a constant period time (1 year). The accuracy is based on the zero degree of offset from perpendicular drive
2. Use CPLinQ App to download results for the connected following models: CP8916TC and CP8918TC. Bluetooth 5.2 wireless connection is supported.
3. Horizontal and vertical test
4. | | |
|---|---|
| Environmental test | Dry heat Cold Damp heat Change of temperature Impact (shock) Vibration Drop |
5. | | |
|---|---|
| Electromagnetic compatibility test | Electrostatic discharge immunity (ESD) Radiated susceptibility Radiated emission |

Declarations

Liability

Many events in the operating environment may affect the tightening process and shall require a validation of results. In compliance with applicable standards and/or regulations, we hereby require you to check the installed torque and rotational direction after any event that can influence the tightening result. Examples of such events include but are not limited to:

- initial installation of the tooling system
- change of part batch, bolt, screw batch, tool, software, configuration or environment
- change of air- or electrical connections
- change in line ergonomics, process, quality procedures or practices
- changing of operator
- any other change that influences the result of the tightening process

The check should:

- Ensure that the joint conditions have not changed due to events of influence.
- Be done after initial installation, maintenance or repair of the equipment.
- Occur at least once per shift or at another suitable frequency.

EU DECLARATION OF CONFORMITY

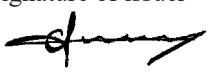
We, **CHICAGO PNEUMATIC Tool Co.LLC**, 1815 Clubhouse Road, Rock Hill, SC 29730 - USA, declare under our sole responsibility that the product (with name, type and serial number, see front page) is in conformity with the following Directive(s):

Harmonized standards applied:
EN ISO 6789-1 : 2017

Authorities can request relevant technical information from: Pascal Roussy, R&D Manager, Ets Georges Renault, 38 rue Bobby Sands, BP10273 44818 Saint Herblain, France

Pascal ROUSSY, R&D Manager

Signature of issuer



WEEE

Information concerning **Waste of Electrical and Electronic Equipment** (WEEE):
This product and its information, meets the requirements of the WEEE Directive (2012/19/EU), and must be handled in compliance with the directive.

The product is marked with the following symbol:

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Products marked with a crossed-out wheeled bin symbol and a single black bar underneath, contain parts that must be handled in compliance with the WEEE Directive. The entire product, or the WEEE parts, can be sent to your “Customer Center” for handling.

FCC compliance Class B

This device complies with Part 15 of the FCC Rules. Any changes or modifications not expressly approved by the manufacturer could void the user’s authority to operate this device.

Operation is subject to the following two conditions:(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Responsible party:

Name: Stuart Trott
Position: General Manager
Address: Chicago Pneumatic Tool Company
LLC 1815 Clubhouse Road Rock Hill
SC 29730
USA
Mobile: +1 800 624 4735
Email: Stuart.Trott@cp.com

ⓘ This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC compliance Class B

CAN ICES-3(B)/NMB-3(B)

(English) This device complies with Innovation, Science and Economic Development Canada’s licence-exempt RSSs. Operation is subject to the following two conditions:

1) This device may not cause interference; and
2) This device must accept any interference, including interference that may cause undesired operation of the device.

(French) Le présent appareil est conforme aux CNR d’Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes:
1) l’appareil ne doit pas produire de brouillage;
2) l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

Radio equipment directive (RED)

The tool may be operated in the following countries:

	AT	BE	BG	CH	CY	CZ	DE
	DK	EE	EL	ES	FI	FR	HR
	HU	IE	IT	IS	LI	LT	LU
	LV	MT	NL	NO	PL	PT	RO
	SE	SI	SK	TR	UK		

The abbreviations of the member States concerned are: Austria (AT), Belgium (BE), Bulgaria (BG), Switzerland (CH), Cyprus (CY), Czech Republic (CZ), Germany (DE), Denmark (DK), Estonia (EE), Greece (EL), Spain (ES), Finland (FI), France (FR), Croatia (HR), Hungary (HU), Ireland (IE), Italy (IT), Iceland (IS), Liechtenstein (LI), Lithuania (LT), Luxembourg (LU), Latvia (LV), Malta (MT), Netherlands (NL), Norway (NO), Poland (PL), Portugal (PT), Romania (RO), Sweden (SE), Slovenia (SI), Slovakia (SK), Turkey (TR) and the United Kingdom (UK).

ⓘ 5150 ÷ 5350 MHz allowed for indoor use only.

Regional Requirements

⚠ **WARNING**

This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to

https://www.p65warnings.ca.gov/

Information Regarding Article 33 in REACH

The European Regulation (EU) No. 1907/2006 on Registration, Evaluation, Authorization and restriction of Chemicals (REACH) defines among other things requirements related to communication in the supply chain. The information requirement applies also to products containing so called Substances of Very High Concern (the “Candidate List”). On 27 June 2018 lead metal (CAS nr 7439-92-1) was added to the Candidate List.

In accordance with the above this is to inform you that certain electrical and mechanical components in the product may contain lead metal. This is in compliance with current substance restriction legislation and based on legit exemptions in the RoHS Directive (2011/65/EU). Lead metal will not leak or mutate from the product during normal use and the concen-

tration of lead metal in the complete product is well below the applicable threshold limit. Please consider local requirements on the disposal of lead at product end of life.

Safety

DO NOT DISCARD - GIVE TO USER

⚠ WARNING All locally legislated safety rules regarding installation, operation and maintenance shall be respected at all times.

Statement of Use

- For professional use only.
- This product and its accessories must not be modified in any way.
- Do not use this product if it has been damaged.
- If the product data or hazard warning signs on the product cease to be legible or become detached, replace without delay.
- The product must only be installed, operated and serviced by qualified personnel in an industrial environment.

Intended Use

The only recommended use is that specified by the manufacturer.
This product is intended for tightening operations and quality control tests. No other use permitted.

Do not use while charging.

Product Specific Instructions

Buttons

Refer Schema 5

1	Power On/Clear	3	Up/Down Button
2	Enter/Setting	4	Return

Installation

Battery Installation

Refer Schema 3

- Remove the battery cap (1).
- Insert two AA batteries (2) matching the -/+ polarities of the battery to the battery compartment.
- Put on the battery cap(1) and rotate it tightly according to the following figures.

Operation

Power ON and Auto Zero Reset

- To power on the digital torque wrench, please keep the ratchet head force free and placed on a horizontal support, and then press to power it on.
- During power on, a zero-reset for torque will be proceeds.
- In Torque Installation mode , a default target value will show on LCD.

⚠ WARNING If appeared, it means torque ZERO RESET failed, Please do torque Zero Reset again.

Auto Power OFF

- Auto Idle after about 1 minutes without action.
- Auto Off after about 30 minutes without action.
- Press to power on the wrench again.

During communication period, the auto power-off function is disabled.

Power OFF

- Long press to power off the wrench

Zero Reset

Refer Schema 4

- Better Zero-reset improves the measuring accuracy. To get higher accuracy, please do Zero-reset carefully before each measuring.
- After power on, button used for zero reset.
- Usually press to zero reset the digital torque wrench before measuring.
- In Torque mode , if an external force is applied to the torque wrench during zero-reset period, an initial torque offset error will occur.

Reset The Wrench

- If the wrench does not function normally, please go through the reset process to reset the wrench.
- To reset the wrench, loosen the battery cap then tighten it to re-start. After reset, remember to press to power it up again.
- Time setting is lost when batteries are removed. Please connect to CPLinQ App to set it back

Low Voltage Indicator

- If the battery voltage is too low, the wrench will display a battery symbol. Please replace batteries immediately.

Main Operation Flow

Refer Schema 6

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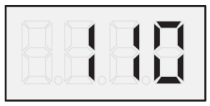
Target Definition - Open Setup Mode



Default home display: Targeted value

Single Press:	Increase value to upper decade (if 120 then go to 130, if 127 then go to 130)
Continuous Press:	Wait 1s then +1 every 0,25s

Single Press:	decrease value to lower decade (if 120 then go to 110, if 127 then go to 120)
Continuous Press:	Wait 1s then -1 every 0,25s

- Target is defined from the torque wrench.
- OPEN SETUP MODE is the only mode provided by wrenches without connection (CP8916/CP8918).
- OPEN SETUP MODE is available on connected wrenches by default (CP8916TC/CP8918TC):
  - When the wrench is used for the first time.
  - When no P-set is in the memory.
- OPEN SETUP MODE can be enabled or disabled from CPLinQ (from P-Sets menu of the tool)
- Last mode used is kept in memory when tool is restarted

Target Definition - P-Set Mode

- A pack of 1 to 9 P-sets are sent by CPLinQ (using Tightening SPEC / preset packet).
- Each P-set contains: Torque value, Unit, tightening strategy, min tolerance, max tolerance, a P-set ID and a number for allocation in torque wrench memory .
- When a pack of P-set is received from CPLinQ:
  - All previous P-sets in memory are deleted from the wrench.
  - Each P-set received is stored in the memory (from 1 to 9) according to the number allocation received.
- Display:
  - The active P-set is identified through the numerical digit:
- Selection:

single press: go to next P-set

Single press: go to previous P-set

- Only available on stand-alone and open setup mode
- Only available on connected wrench using CPLinQ (CP8916B/CP8918B

Wrench Settings

Refer Schema 7

Only available on wrench CP8916TC/CP8918TC

Torque Strategy

Refer Schema 8

Torque Rehit Detection Strategy

If bolt rotates LESS than 2° to reach target torque, a rehit is detected.	
If bolt rotates MORE than 2° : same behaviour as torque basic strategy	Red LED blinking Bip-bip-bip …

Torque Check Strategy

If bolt rotates LESS than 2° to reach target torque, a rehit is detected.	
If bolt rotates MORE than 2° : same behaviour as torque basic strategy	Red LED blinking Bip-Continuous

Angle Strategy

Similar to torque basic strategy, measuring angle instead of torque. Can be accessed through unit menu on open setup mode

Amin < Angle < Amax	Green LED blinking	Bip-Continuous
Amax < Angle	Red LED blinking	Bip-bip-bip …

Sequences

A counting sequence can be added to the P-set in CPLinQ. When a P-set with sequence is displayed on the tool, the wrench displays alternatively the remaining number of tightening and the target

During communication period, the auto power-off function is disabled.

Connecting Communication Cable

Refer Schema 9

- Turn off power and then connect the accessory cable between the COM port of PC and torque wrench.

Service and Maintenance

Update Wrench Software

1. Make sure the Wrench is well connected to the PC with USB Cable.
2. Use an update Software (provided by CC on demand)
3. Click on « Version update »
4. Select the version provided by your Customer Center
5. Wait for the transfer to complete and restart the wrench

Update Calibration

If you check the wrench calibration and there is a need for a calibration update, please contact your Customer Center to get the calibration software

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Maintenance and Storage

1. **Over-torque (110% of Max. torque range) could cause breakage or lose accuracy.**
2. Do not shake violently or drop wrench.
3. Do not use this wrench as a hammer.
4. Do not leave this wrench in any place exposed to excessive heat, humidity, or direct sunlight.
5. Do not use this apparatus in water.(not waterproof).
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.
11. Apply torque slowly and grasp the center of the handle. Do not apply load to the end of handle

Battery Maintenance

1. When the wrench is not used for an extended period of time, remove the battery.
2. Keep a spare battery on hand when going on a long trip or to cold areas.
3. Do not mix battery types or combine used batteries with new ones.
4. Sweat, oil and water can prevent a battery's terminal from making electrical contact. To avoid this, wipe both terminals before loading a battery.
5. Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.

Signs and Stickers

The product is fitted with signs and stickers containing important information about personal safety and product maintenance. The signs and stickers shall always be easy to read. New signs and stickers can be ordered by using the spare parts list.

s011050

Useful Information

Safety Data Sheet

The Safety Data Sheets describe the chemical products sold by Chicago Pneumatic.

Please consult the Chicago Pneumatic website for more information qr.cp.com/sds.

Website

Information concerning our Products, Accessories, Spare Parts and Published Matters can be found on the Chicago Pneumatic website.

Please visit: www.cp.com.

Country of origin

Copyright

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ABOUT CHICAGO PNEUMATIC

At Chicago Pneumatic, we have a passion for performance and long-lasting partnerships with our customers in industrial applications, construction, infrastructure and maintenance. Since 1901, we have been committed to reliability based on technology and trust.

TO LEARN MORE, VISIT WWW.CP.COM

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