OWNER'S MANUAL

Bluetooth Digital Torque Wrench

CP Series



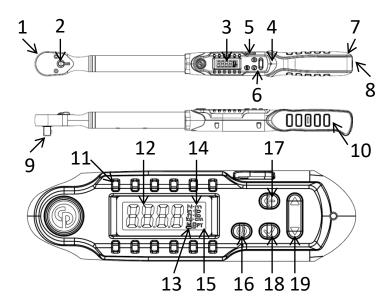
Dear Customers,

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

MAIN FEATURES

- ■Digital torque value display
- ■The torque accuracy guaranteed range is +-3% from 20 to 100% of max torque
- ■Four Torque units(N-m, ft-lb, in-lb, kg-cm) selectable
- ■2000 data memory for recall and joint torque auditing
- ■Bluetooth 5.0 Communication functions
- Auto Idle after about 1 minutes without action
- Auto Off after about 30 minutes without action
- ■Powered by Two AA batteries

NAME AND FUNCTION OF PARTS



- 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, in-lb, kg-cm)

- 11. [T]:Torque Installation mode
 - []:Torque Audit mode
- 16. Power On/Clear Button17. Return Button
- 18. Enter/Setting Button
- 19. Up / Down Button

SELECTION GUIDE

MODEL NO: CP8916 CP8918 TC

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Model	Square drive (inches)	Max. Torque		
CP8916	1/2	200 N-m / 147.5 ft-lb		
CP8918	1/2	340 N-m / 250.7 ft-lb		

(2)

Communication				
	No Bluetooth			
TC	Bluetooth 5.0			

SPECIFICATIONS

Model	Max. Torque	Square Drive	Torque Measuring Range (N-m)		Length		
No.	(N-m)	(inches)			(mm)		
CP8916	200	1/2	10~200		530		
CP8918	340	1/2	17~340		650		
All Models							
Accuracy *1		AB	В	BB			
		±3%		±3%			
Data memory size		2000					
PC Connectivity *2		Yes					
Bright LED		12LED					
		(2 Blue/Red+10 Green)					
Operation Mode		Installation / Audit					
Unit Selection		N-m, ft-lb					
Head Type		Lever Type Ratchet					
Gear Teeth		72					
Button		5					
Battery		AA x 2					
Operating Temperature		-10°C ~40°C					
Storage Temperature		-20°C ~70°C					
Humidity		Up to 90%					
		non-condensing					
Drop Test		1 m					
Vibration Test *4		10G					
Environmental test *5		Pass					
T71 /							

NOTE: Accuracy is guaranteed from 20% to 100% full scale.

compatibility test *6

Electromagnetic

Pass

^{*:} See note on page 4

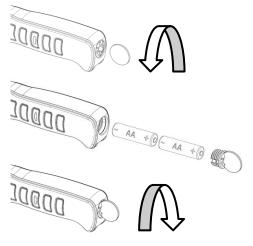
Note:

- 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). And the accuracy is based on the zero degree of offset from perpendicular drive.
- 2. Use a special designed cable (accessory) to upload record data to PC. Supports Bluetooth 5.2 wireless connection.
- 3. Two AA batteries (Toshiba carbon-zinc battery)
- 4. Horizontal and vertical test
- 5. Environmental test:
 - a. Dry heat
 - b. Cold
 - c. Damp heat
 - d. Change of temperature
 - e. Impact (shock)
 - f. Vibration
 - g. Drop
- 6. Electromagnetic compatibility test:
 - a. Electrostatic discharge immunity (ESD)
 - b. Radiated susceptibility
 - c. Radiated emission

BEFORE USING THE WRENCH

BATTERY INSTALLATION

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



POWER ON AND AUTO ZERO RESET

- To power on the digital torque wrench, please keep the ratchet head force free, 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.

ATTENTION:

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

AUTO POWER OFF

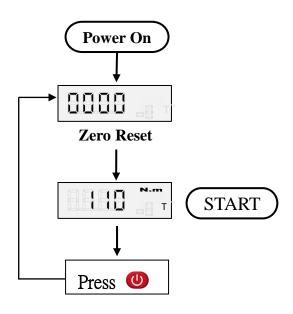
- Auto Idle after about 1 minutes without action
- Auto Off after about 30 minutes without action
- Press **u** to power on the wrench again.

CAUTIONS:

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

ZERO RESET

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



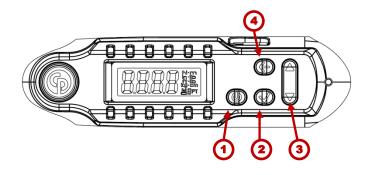
RESET THE WRENCH

- 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.

LOW VOLTAGE INDICATOR

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

BUTTONS



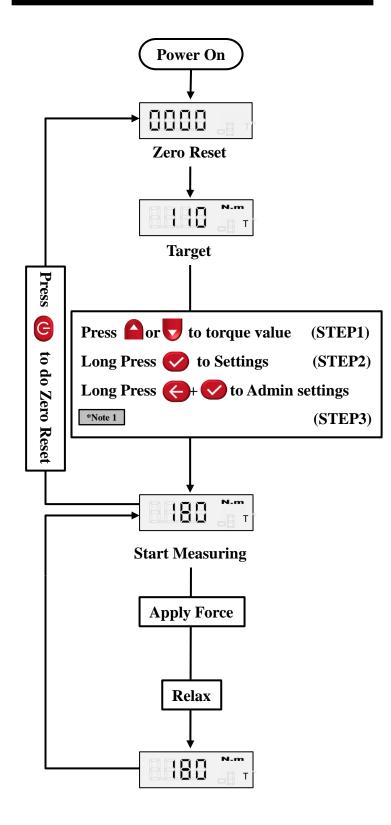
1 U Power On/Clear

2 Enter/Setting

3 A Up/Down Button

4 Return

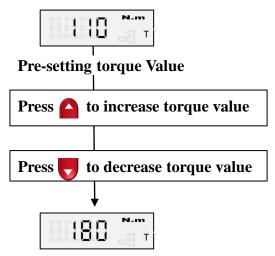
MAIN OPERATION FLOW





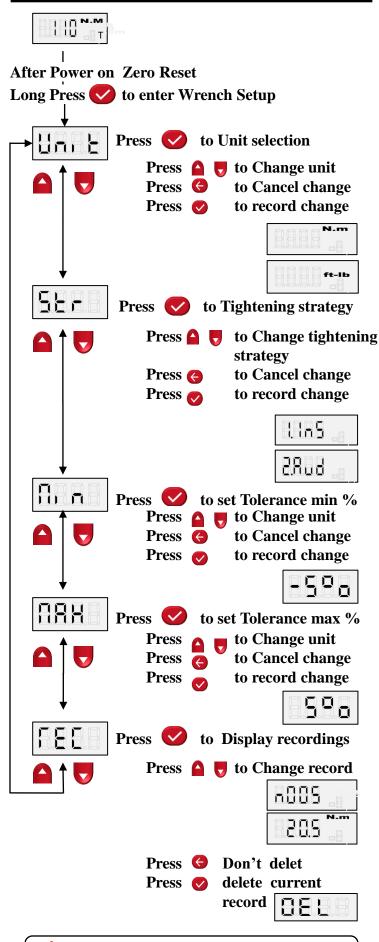
- Long Press **t**o enter wrench setup. 1.
- 2. Only Peak Mode keep peak torque for save.

STEP1: SET TORQUE VALUE



Pre-setting torque Value

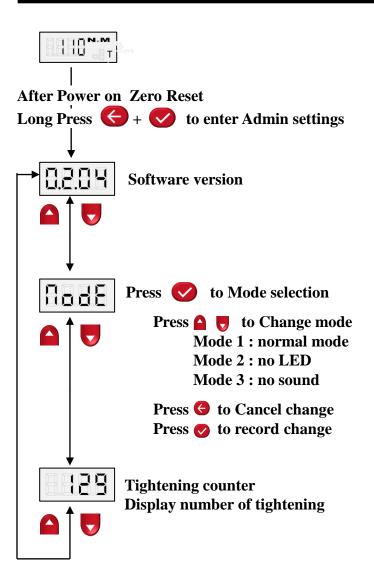
STEP2: WRENCH SETTINGS



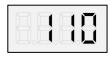


- 1. After Power on Zero Reset.
- 2. During measuring and before apply force.

STEP3: WRENCH SETUP



STEP4: OPEN SETUP



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

STEP5: P-SET MODE

1. OPEN SETUP MODE

- Target is defined from the torque wrench:
 - *. Torque value selection as described by Spec 8.x
 - *. Unit, tightening mode, min tolerance and max tolerance can be selected as described by Spec 9.x
- **OPEN SETUP MODE** is available by default:
 - *. 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 (using Tightening SPEC / preset packet)
- Last mode used is kept in memory when tool is restarted

2. P-SET MODE

A selection of P-sets are defined from CPLinQ:

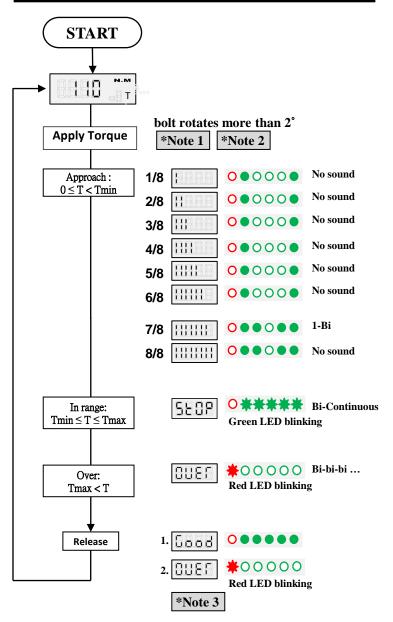
- *. a pack of 1 to 9 P-sets are sent by CPLinQ (using Tightening SPEC / preset packet)
- *. Each P-set contains: Torque value, Unit, tightening mode, min tolerance, max tolerance, a P-set ID and a number for allocation in torque wrench memory
- *. When a pack of P-set is received from CPLinQ:
 - *. 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:

- *. single press: increase value +1 / continuous press: wait 1s then +1 every 0,25s
- *. Single press: decrease value -1 / continuous press: wait 1s then -1 every 0,25s

TORQUE INSTALLATION Strategy

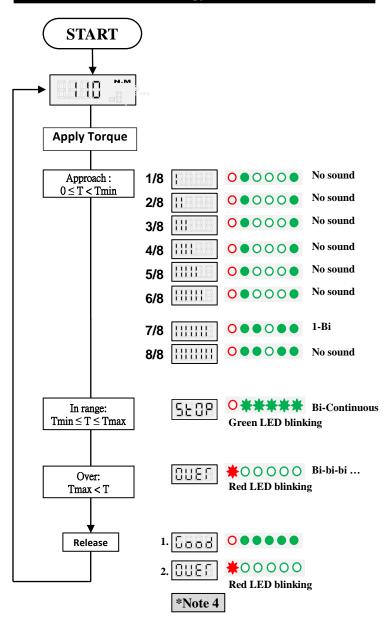




Note:

- 1. If bolt rotates more than 2°, back in normal mode .
- 2. If bolt has not moved (less than 2°) an alert is given to operator .
- 3. When tightening is finished:
 - 1. If result is too low:
 No recording.
 - 2. If result is "Good" (in target range): Result is automatically recorded.
 - 3. If result is "OVER": Result is automatically recorded.

TORQUE AUDIT Strategy





Note:

- When tightening is finished:
 - 1. If result is too low: No recording.
 - 2. If result is "Good" (in target range): Result is automatically recorded.
 - 3. If result is "OVER":
 Result is automatically recorded.

COMMUNICATION

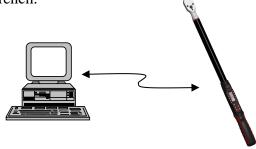


Precaution:

- 1. Communication function is only supported on some models. Check the model no. and its specification before using communication function.
- 2. Do not insert the plug of communication cable into torque wrench that does not support communication function.

CONNECTING COMMUNICATION CABLE

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



UPLOADING RECORD DATA

- 1. Make sure the Wrench is well connected to the PC with USB Cable.
- 2. Launch "Uploader" program in PC.
- 3. In "Uploader" program, check "Auto Upload" will upload records automatically if wrench well connected. The records uploaded will stored in database file.
- 4. The records already uploaded will not be upload again.
- User can export the uploaded/queried records to MS Excel using "Export Excel" function in Uploader program.



CAUTIONS:

1. Refer to the uploader program user guide for the detail operations.

MAINTENANCE AND STORAGE

ATTENTION:

One-year periodic recalibration is necessary to maintain accuracy. Please contact your local dealer for calibration.



- 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.

Class B: (Section 15.105) FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT

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.

(Section 15.21)

CAUTION:

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the equipment.

RF exposure warning

The equipment complies with FCC RF exposure limits set forth for an uncontrolled environment. The equipment must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. 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.

Canada, Industry Canada (IC) Notices This device complies with Canada licence-exempt RSS standard(s).

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.

Canada, avis d'Industry Canada (IC)
Cet appareil est conforme avec Industrie Canada
exemptes de licence RSS standard(s).
Son fonctionnement est soumis aux deux conditions
suivantes: (1) cet appareil ne doit pas causer
d'interférence et (2) cet appareil doit accepter toute
interférence, notamment les interférences qui
peuvent affecter son fonctionnement.

Radio Frequency (RF) Exposure Information
The radiated output power of the Wireless Device is
below the Industry Canada (IC) radio frequency
exposure limits. The Wireless Device should be
used in such a manner such that the potential for
human contact during normal operation is
minimized.

This device has also been evaluated and shown compliant with the IC RF Exposure limits under portable exposure conditions. (antennas are less than 20 cm of a person's body).

Informations concernant l'exposition aux fréquences radio (RF)

La puissance de sortie émise par l'appareil de sans fil est inférieure à la limite d'exposition aux fréquences radio d'Industry Canada (IC). Utilisez l'appareil de sans fil de façon à minimiser les contacts humains lors du fonctionnement normal.

Ce périphérique a également été évalué et démontré conforme aux limites d'exposition aux RF d'IC dans des conditions d'exposition à des appareils portables. (les antennes sont moins de 20 cm du corps d'une personne).