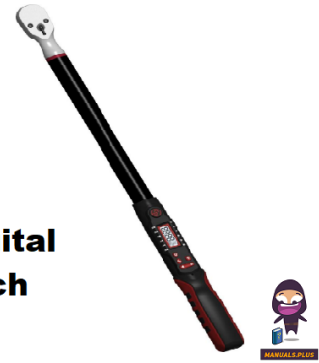


Asmith

**CP Series
Bluetooth Digital
Torque Wrench**



Asmith CP Series Bluetooth Digital Torque Wrench Owner's Manual

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Asmith

Asmith CP Series Bluetooth Digital Torque Wrench



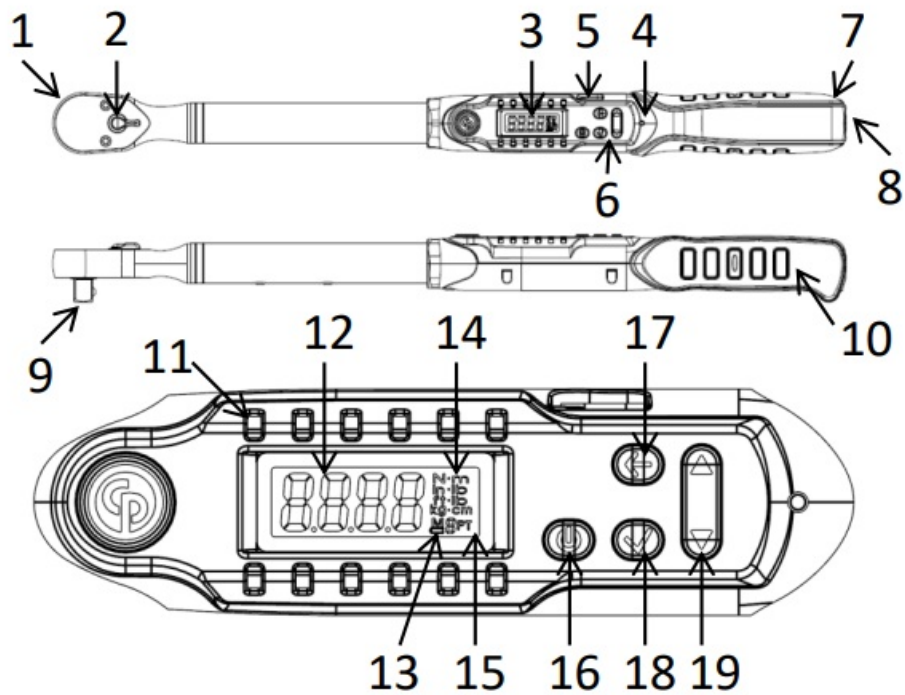
Dear Customers,

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 $\pm 3\%$ 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)
15. [T]: Torque Installation mode
[]:Torque Audit mode
16. Power On/Clear Button
17. Return Button
18. Enter/Setting Button
19. Up / Down Button

SELECTION GUIDE

MODEL NO:

①

CP8916
CP8918

②

TC

1

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 No.	Max. Torque (N-m)	Square Drive (inches)	Torque Measuring Range (N-m)	Length (mm)
CP8916	200	1/2	10~200	530
CP8918	340	1/2	17~340	650
All Models				
Accuracy *1	AB		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
Electromagnetic compatibility test *6	Pass

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

Note:

1. The accuracy of the readout is guaranteed from 20% to 100% of the maximum range + /-1 increment. The torque accuracy is a typical value. To keep the accuracy, calibrate the wrench for a constant period time (1 year). And the accuracy is based on the zero degree of offset from the perpendicular drive.
2. Use a specially 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

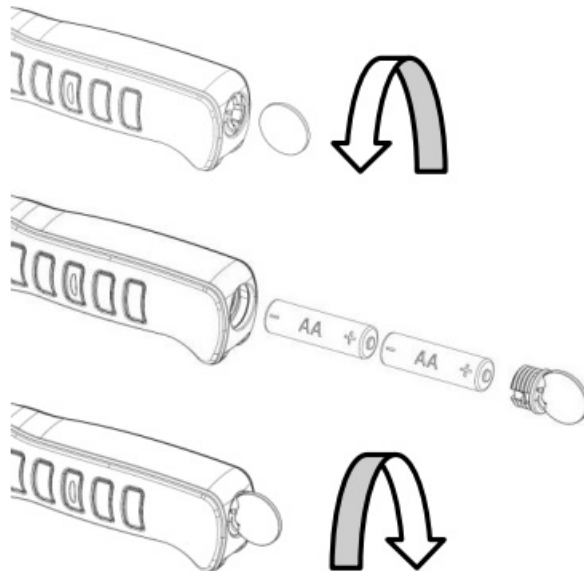
6. Electromagnetic compatibility test:

- 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 proceeded.

- In Torque Installation mode, a default target value will show on LCD




ATTENTION



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



AUTO POWER OFF

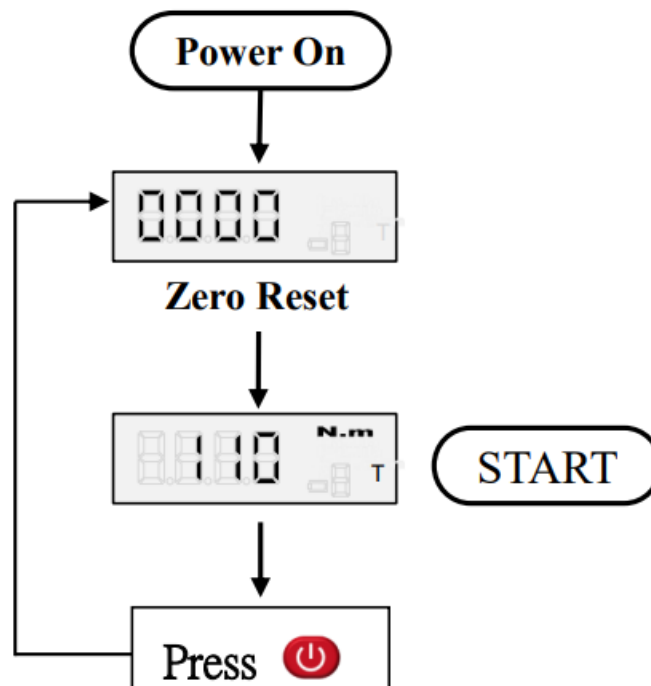
- Auto Idle after about 1 minutes without action
- Auto Off after about 30 minutes without action
- Press  to power on the wrench again.

CAUTIONS:


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

ZERO RESET

- Better Zero-reset improves the measuring accuracy. To get higher accuracy, please do Zeroreset 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 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

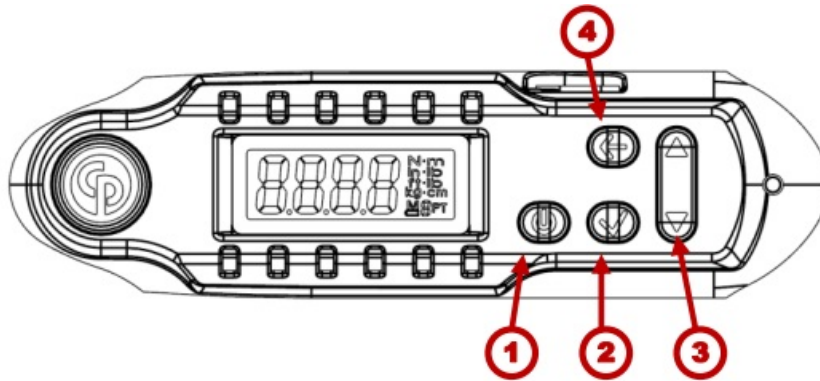
- If the wrench does not function normally, please go through the reset process to reset the wrench.
- To reset the wrench, loosen the battery cap then tighten it to re-start. After reset, remember to press  to power it up again

LOW VOLTAGE INDICATOR

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



BUTTONS



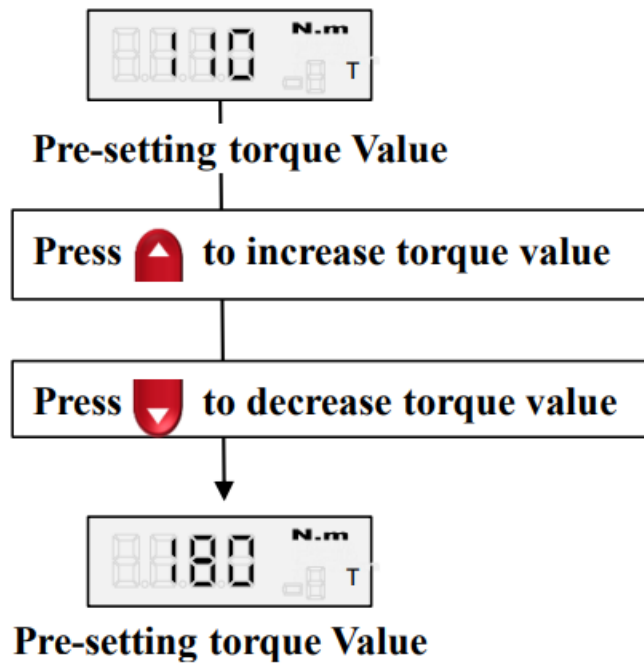
- | | | |
|---|--|----------------|
| ① | | Power On/Clear |
| ② | | Enter/Setting |
| ③ | | Up/Down Button |
| ④ | | Return |

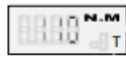
MAIN OPERATION FLOW



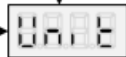
1. Long Press  to enter wrench setup.
2. Only Peak Mode keep peak torque for save.

STEP1: SET TORQUE VALUE





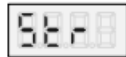
After Power on Zero Reset
Long Press to enter Wrench Setup



Press to Unit selection



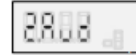
Press to Change unit
Press to Cancel change
Press to record change



Press to Tightening strategy



Press to Change tightening strategy
Press to Cancel change
Press to record change



Press to set Tolerance min %



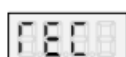
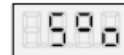
Press to Change unit
Press to Cancel change
Press to record change



Press to set Tolerance max %



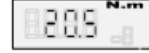
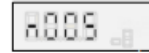
Press to Change unit
Press to Cancel change
Press to record change



Press to Display recordings

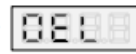


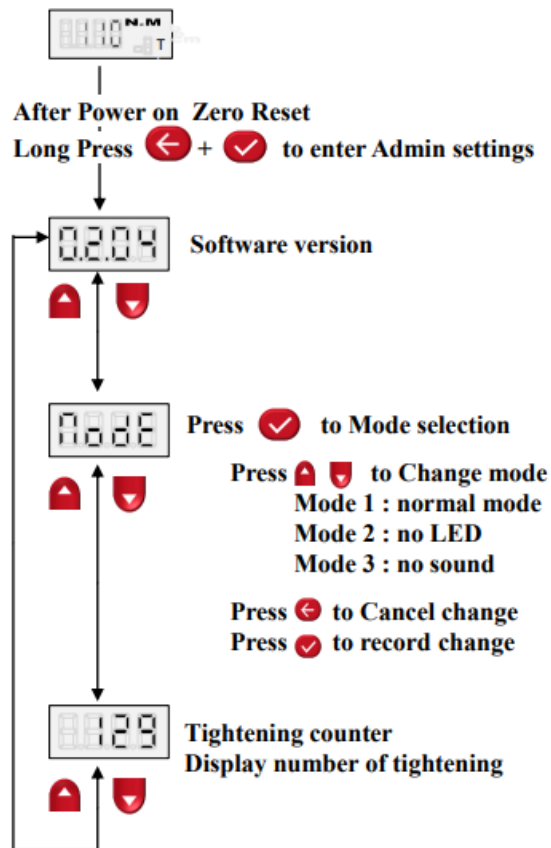
Press to Change record



Press Don't delet

Press delete current record

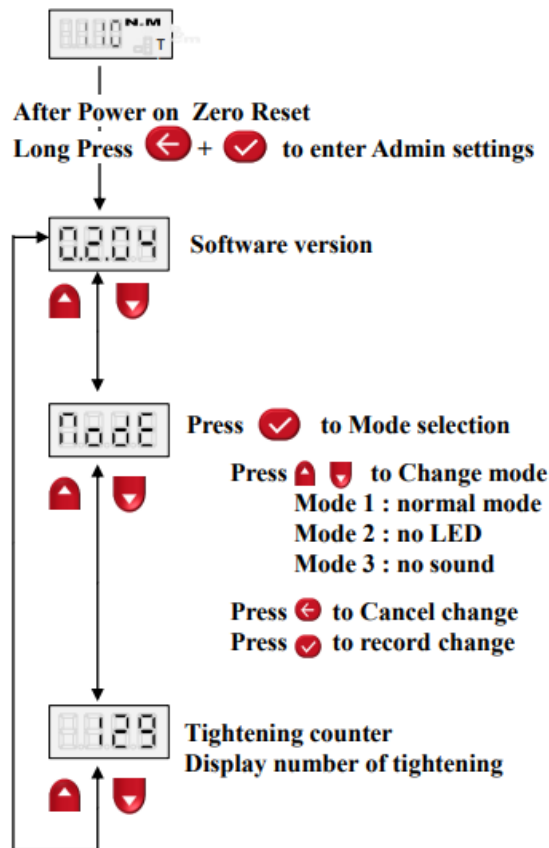




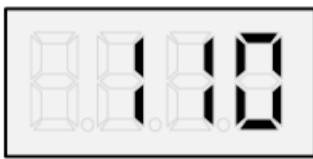
Note:

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:



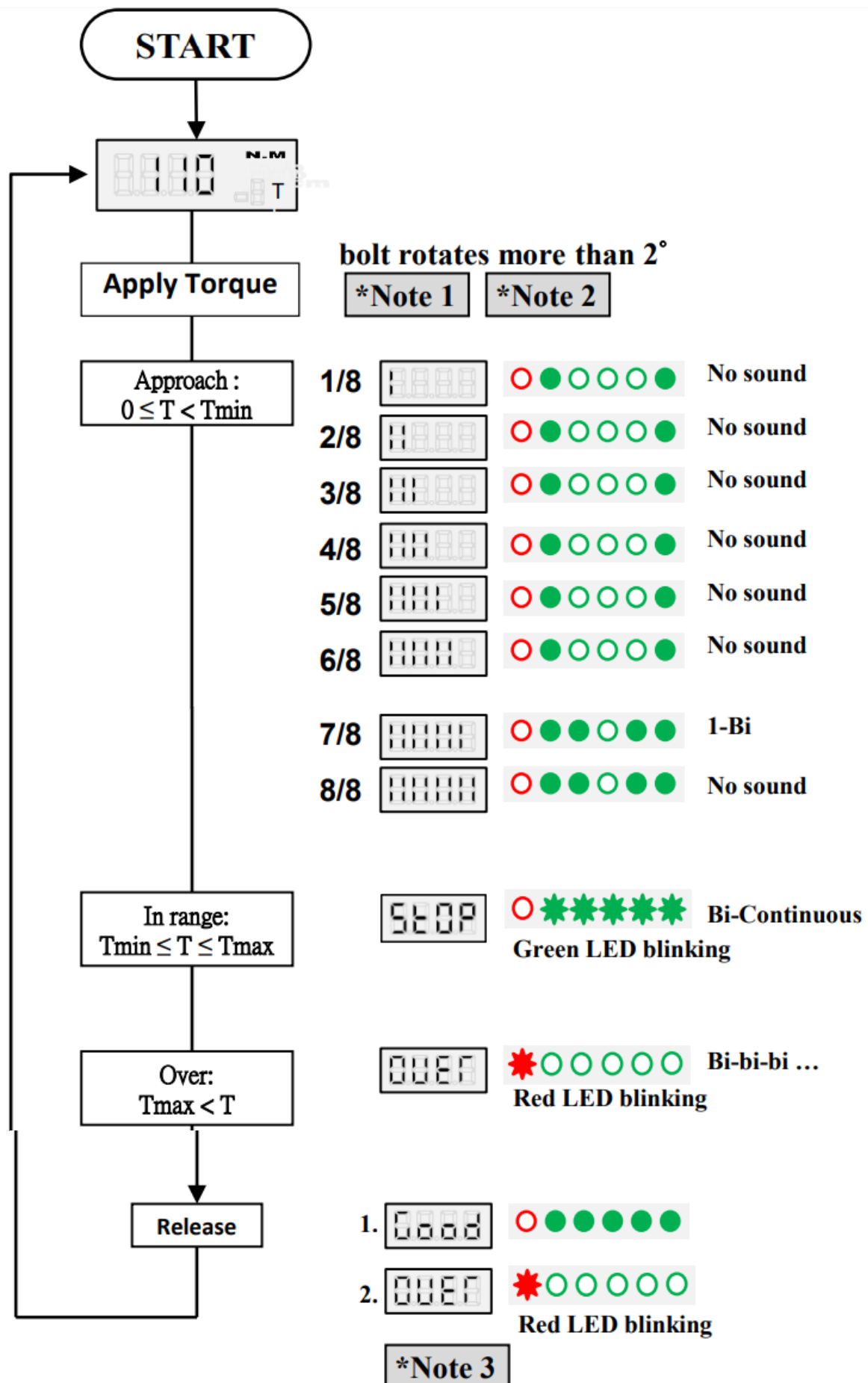
Selection:



- *. 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

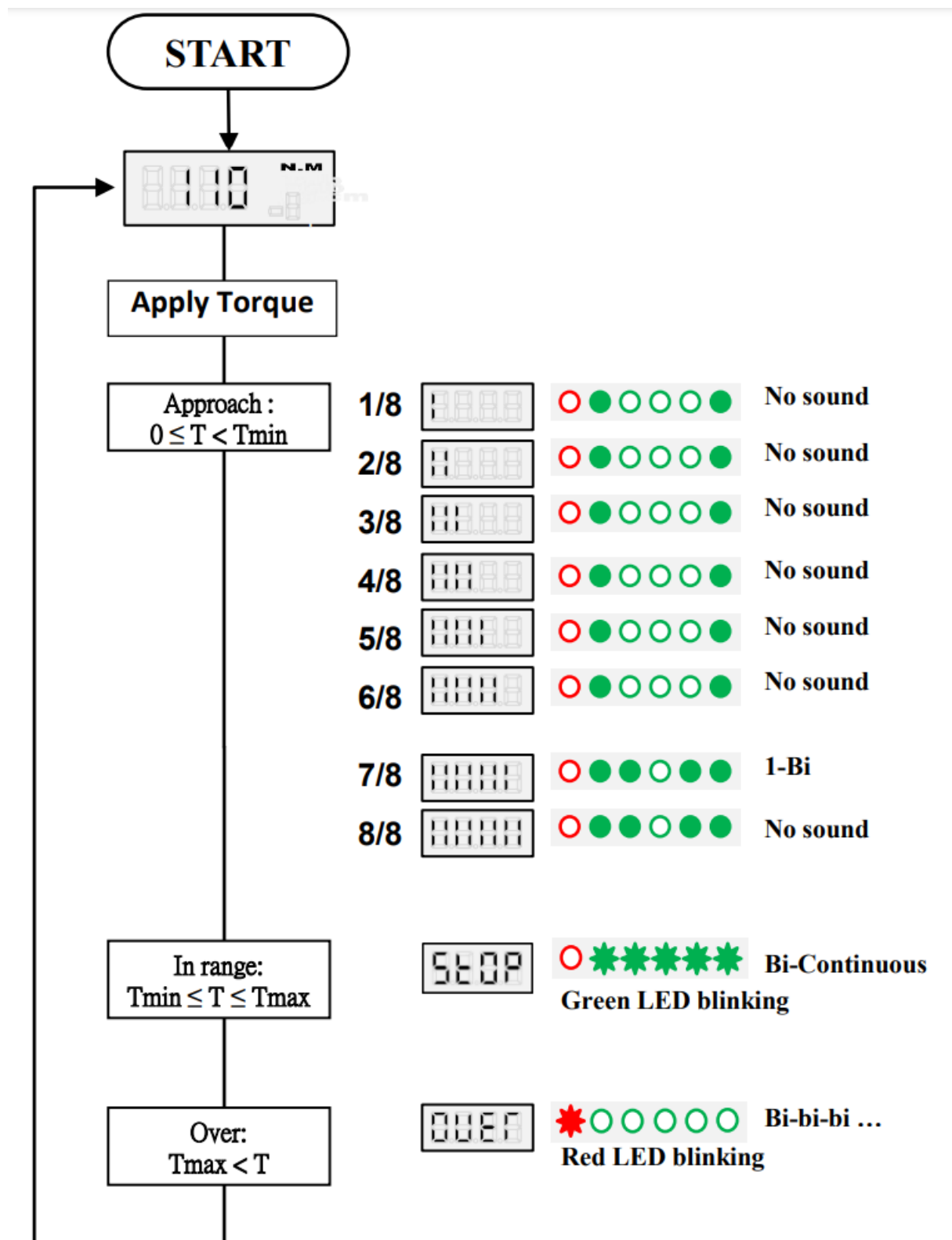


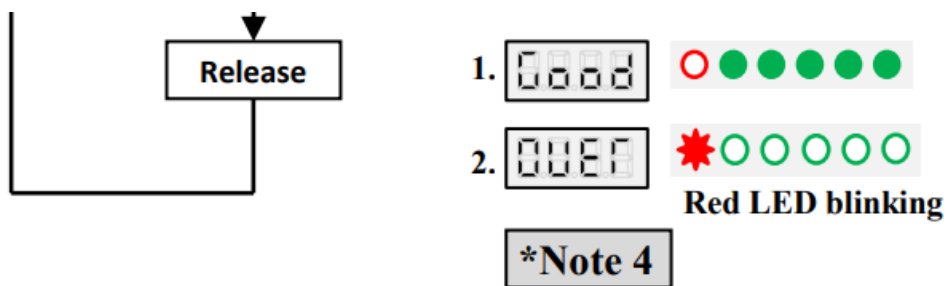
Note:

1. If the bolt rotates more than 2°, back in normal mode .

2. If the bolt has not moved (less than 2°) an alert is given to the operator.
3. When tightening is finished:
 1. If the result is too low: No recording.
 2. If the result is “Good” (in the target range): The result is automatically recorded.
 3. If the result is “OVER” the 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

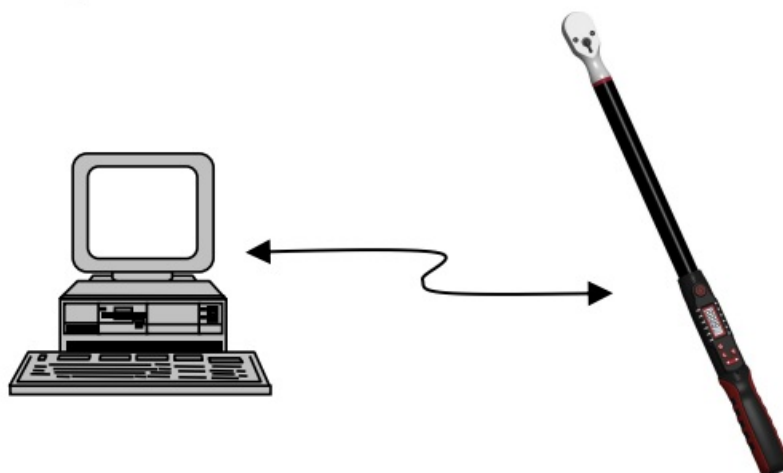
COMMUNICATION

Precaution:

1. The 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 the 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 the “Uploader” program in PC.
3. In the “Uploader” program, check “Auto Upload” will upload records automatically if the wrench well connected.
The records uploaded will stored in a database file.

4. The records already uploaded will not be uploaded again.
5. Users can export the uploaded/queried records to MS Excel using the “Export Excel” function in the 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)

FCC Statement

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.

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).

Documents / Resources

OWNER'S MANUAL

Bluetooth Digital
Torque Wrench
CP Series



[Asmith CP Series Bluetooth Digital Torque Wrench](#) [pdf] Owner's Manual
CP Series, CP Series Bluetooth Digital Torque Wrench, Bluetooth Digital Torque Wrench, Digital
Torque Wrench, Torque Wrench, Wrench

References

- [User Manual](#)

[Manuals+](#), [Privacy Policy](#)

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