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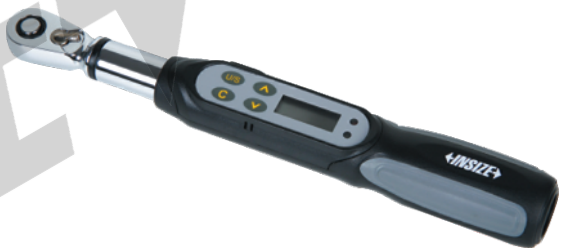


IST-WP SERIES
SMALL RANGE DIGITAL TORQUE WRENCH
OPERATION MANUAL

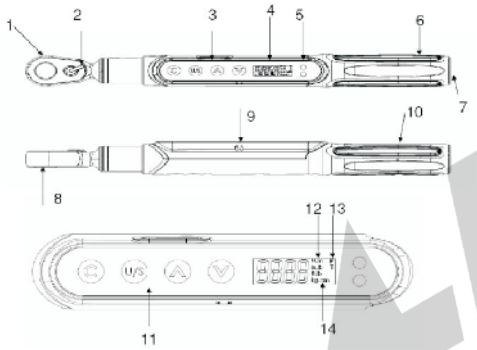
V0

Main Function

- Digital torque value readout
- +/-3% accuracy
- CW and CCW operation
- Peak hold and Track mode selectable
- Buzzer and LED indicator for the pre-settable target torque
- Engineer units(cN-m, in-lb, kg-cm) selectable
- Auto power off after about 5 minutes idle
- Recharge batteries are compatible

Description

Structure:



1 Reversible ratch head 2 Direction lever 3 Communication port
4 LCD readout 5 LED Indicator 6 Anti-slip Handle 7 Battery Cover
8 Ratchet driver 9 Buzzer 10 Calibration mark
11 Buttons 12 Torque Value 13 Units 14 Peak/Track Mode

Specification

1 Working Condition:

Operation temperature: -10℃~60℃
Store temperature: -20℃~70℃
Humidity: Can reach 90% if no condensation

2 Parameter

Code		IST-WP12	IST-WP20
Range		2.4-12N.m	4-20N.m
Accuracy	CW	±3%	±3%
	CCW	±4%	±4%
Resolution		0.01N.m	0.01N.m
Size of shank(L)		1/4"	1/4"
Power supply		1xAAA battery	
Length		260mm	260mm
Weight		430g	430g

Note:

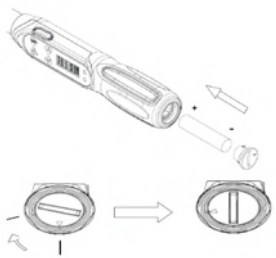
1. The accuracy of readout is guaranteed from 20%-100% of maximum range +/-1 increment. The torque accuracy is a typical value. Calibration point is on the rubber grip. For keeping the accuracy, calibrate the wrench for a constant period time(1 year).
2. One cycle means swing the torque wrench from 0 N.m to maximun range and back to 0 N.m.
3. Horizontal and vertical test.
4. Environmental test: a. Dry heat b. Cold c. Damp heat d. Change of temperature e. Impact(Shock) f. Vibration g. Drop
5. Electromagnetic compatibility test:
   a. Electrostatic discharge immunity (ESD)
   b. Radiated susceptibility (RS)
   c. Radiated emission (RE)

Before using the wrench

Battery installation:

- Remove the battery cap.
- Insert one AAA battery matching the -/+ polarities of the battery to the battery compartment.

- Put on the battery cap and fasten it tightly according to the following figures.



Power on and resetting the wrench

- Press C to power on the digital torque wrench.
- Usually press C to reset the digital torque wrench before using it.

Attention: If an external force is applied to the torque wrench during power-on period, an initial torque offset will be recorded in the memory.

Auto power off:

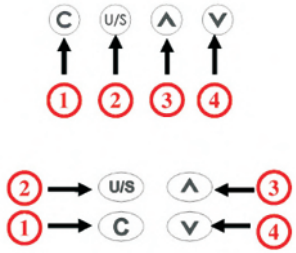
- The wrench will auto power off after about 5 minutes idle for power saving. Press C to power on the wrench again.

Cautions: During communication period(Send appears), the auto power off function is disabled.

Resetting the wrench:

- If the wrench does not function normally, loosen the battery cap then tighten it to re-start.

Setup:



1. Power On/Clear
2. Unit Selection/Setting
3. Adjust Torque Value Up
4. Adjust Torque Value Down

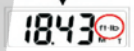
1 Step 1: Unit selection

Pre-setting unit: cN.m

Press U/S

Unit Selection: in.lb

Press U/S



Unit Selection: ft.lb

Press U/S

Unit Selection: kg.cm

2 Step 2: SET Target Torque

Pre-setting target torque

Press ∧

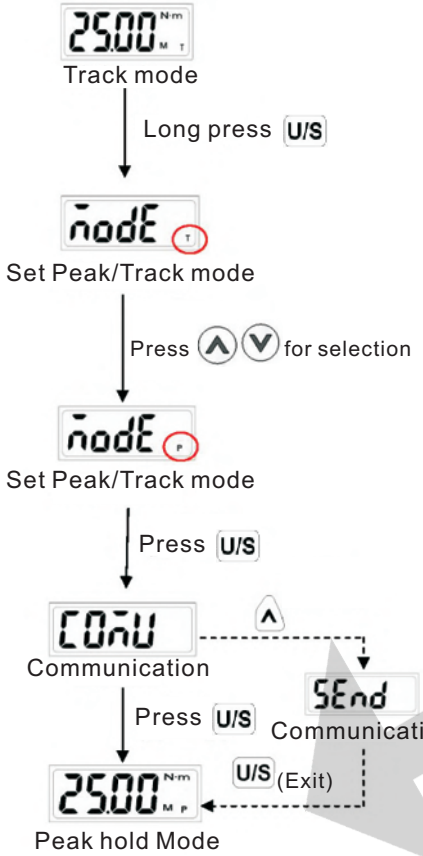
Increase torque value

Press ∨

Decrease torque value

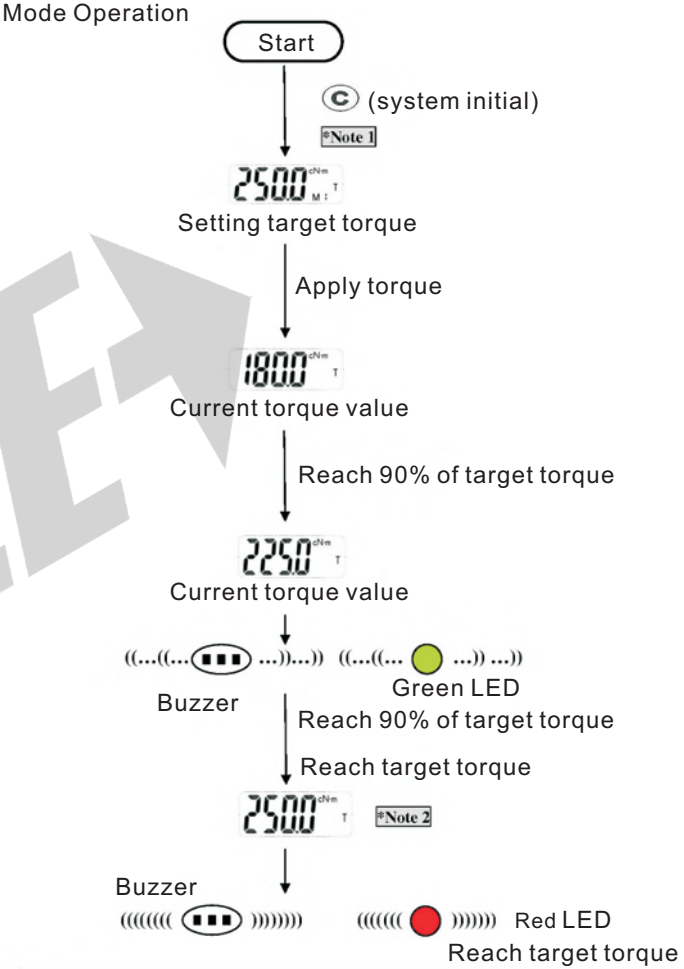
Note:
The “Unit Selection” is cyclic.

❸ Step 3: Peak hold/Track mode selection



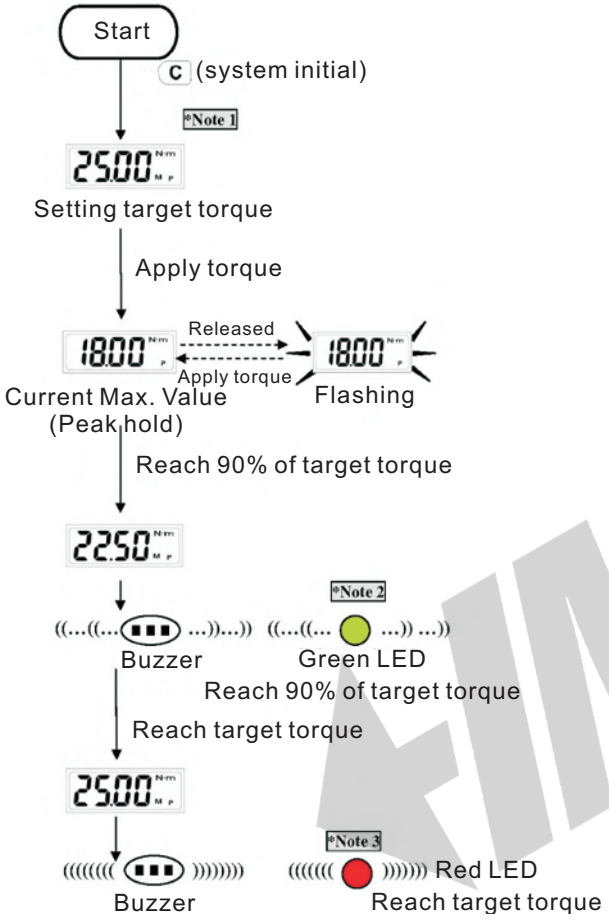
Note:
Communication is for calibration of torque wrench. Please contact your local dealer for information.

Track Mode Operation



Note: 1. If `Er0` is appeared, that means this wrench has ever been applied more than 110% of torque of the spec.
2. When 90% of the target torque is reached, the green LED will begin to flash and the alarm tone will beep intermittently.
3. When 99.5% of the target torque has been reached, the alarm will change to a steady tone and the green LED will stop flashing and stay on. The red LED will also illuminate.

Peak Hold Mode Operation:



Note: 1. If Er0 is appeared, that means this wrench has ever been applied more than 110% of torque of the spec.
2. When 90% of the target torque is reached, the green LED will begin to flash and the alarm tone will beep intermittently.
3. When 99.5% of the target torque has been reached, the alarm will change to a steady tone and the green LED will stop flashing and stay on. The red LED will also illuminate.

Maintenance

Attention:
One year periodic recalibration is necessary to maintain accuracy.
Please contact your local dealer for calibrations.

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 graspe the center of the handle. Do not apply load to the end of handle.
12. When checking the accuracy or calibration, please use the bit head packed inside the below mold case.

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 in long trip or cold areas.
3. Sweat, oil and water can prevent a battery's terminal from making electrical contact. To avoid this, wipe both terminals before loading a battery.
4. Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.