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**IST-3SD SERIES
BLUETOOTH DIGITAL TORQUE SCREWDRIVERS
(KEYBOARD SIGNAL)
OPERATION MANUAL**



Attention

- ◆ Don't use the screwdrivers as a hammer.
- ◆ Don't use the screwdrivers in water.
- ◆ Over-torque (105% max. torque range) could cause damage or lose accuracy. If **ErB** is appeared, that means this screwdrivers has ever been applied more than 110% torque of maximum range.
- ◆ The accuracy of the readout is guaranteed from 20% to 100% of maximum range.

Description

1 Function features:

Torque screwdrivers:

- Clockwise and counter-clockwise operation
- Unit: cN.m, in.lb, kg.cm
- Peak and track working modes
- Target torque value can be set, with audible and visible alarm:
 - Green LED light on and buzzer sounds when target torque value is 90%~100% of target torque
 - Red and green LED lights on and buzzer sounds when target torque value is reached
- Auto power off

Data transmission:

- Built-in Bluetooth module, which can be connected with computers (with Bluetooth function), mobile phones, tablets and other devices
- Keyboard signal, can be transmitted to Excel
- Transmission distance is 10 meters (no obstacles, no electromagnetic interference)
- Bluetooth connection and disconnection are respectively shown by indicator lights

2 Structure:



Operation

1 Inserting the batteries: Open the battery cover to load a lithium battery, positive side in, and install the battery cover.

2 Turn on and initialize:

- ◆ To power on the digital torque screwdrivers, please keep the ratchet head force free, and then press **C** to power it on.
- ◆ After power on, auto zero-reset will be processed.
- ◆ After starting, press **C** to zero-reset again.
- ◆ In torque mode, a default target value will show on LCD.

Note: If **ErB** appeared during power-on, it means this screwdrivers has been applied more than 110% of maximum torque.

3 Auto power off:

- ◆ The screwdrivers will auto power off after about 2 minutes idle for power saving. Press **C** to power on the screwdrivers again.
- ◆ Press and hold **C** to turn off the power of the screwdrivers.

4 Zero reset:

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

5 Reset the screwdrivers:

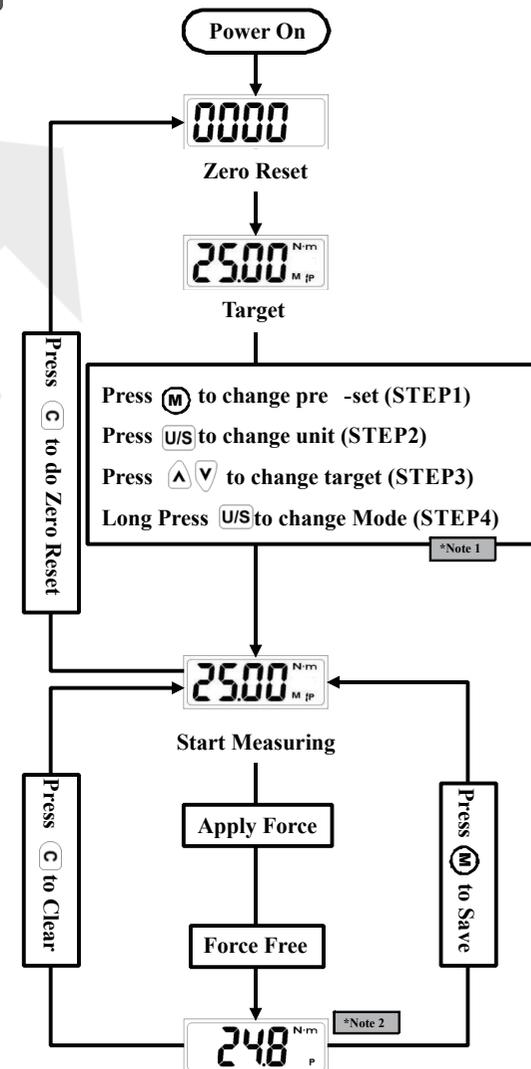
- ◆ If the screwdrivers does not function normally, please go through the reset process to reset the screwdrivers.
- ◆ To reset the screwdrivers, loosen the battery cap then tighten it to restart. After reset, remember to press **C** to power it up again.

6 Low battery indicator:

When the battery is low, the screen displaying the sign as shown and it will power off in a few seconds.



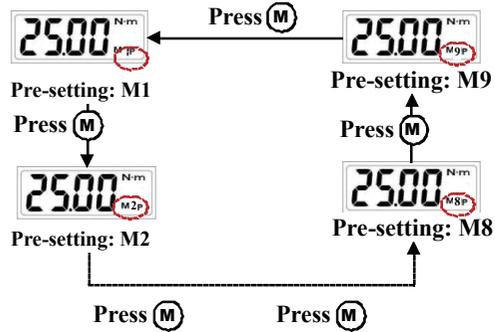
Operation



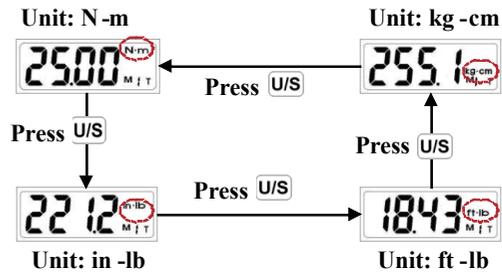
Note1: Long Press **U/S** to enter screwdrivers setup.

Note2: Only Peak Mode keep peak torque for save and data transmission.

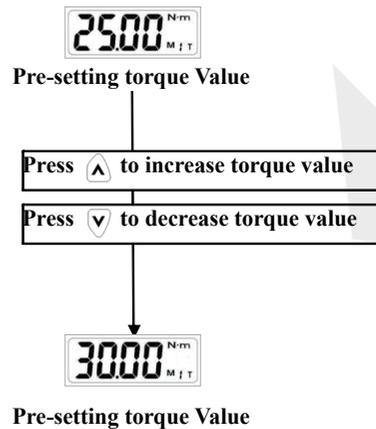
◆ Step 1: Pre-setting NO.



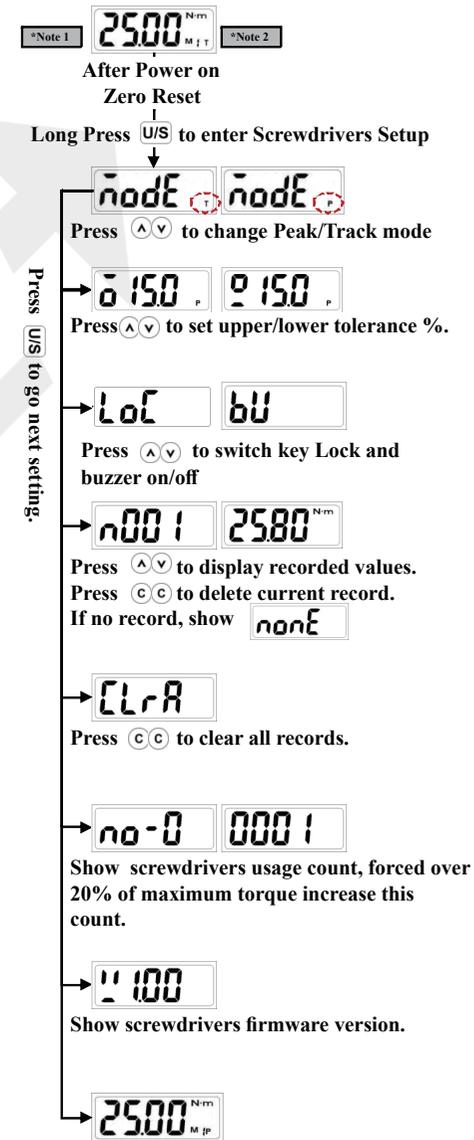
◆ Step 2: Unit selection



◆ Step 3: Set torque value

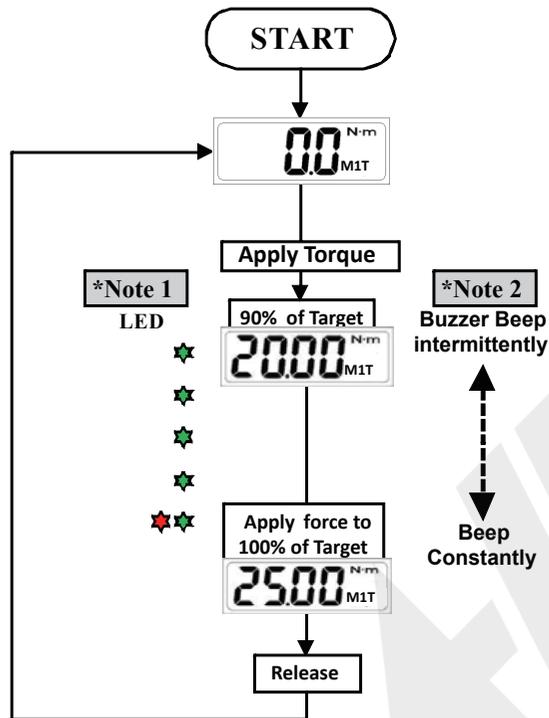


◆ Step 4: Peak Hold/Track mode selection (Screwdrivers Setup)



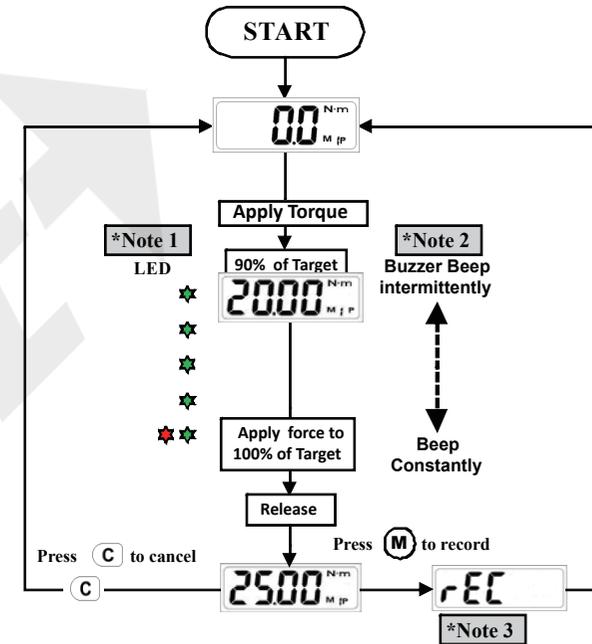
Note1: After Power on Zero Reset.
 Note2: During measuring and before apply force.

◆ Track mode operation



Note1:– Green LED light on and buzzer sounds when target torque value is 90%~100% of target torque
 Note2:– Red and green LED lights on and buzzer sounds when target torque value is reached

◆ Peak mode operation



Note1:– Green LED light on and buzzer sounds when target torque value is 90%~100% of target torque
 Note2:– Red and green LED lights on and buzzer sounds when target torque value is reached
 Note3: If bluetooth is connected, press (M) and the screwdrivers will attempt to transmit the measurement to the computer.

Keyboard signal output

After connecting the screwdrivers with the computer's bluetooth, operate in peak mode and press the M key to transmit the measured value to EXCEL in real time. If the upper and lower limits are set, the data exceeding the upper and lower limits will not be output.

Maintenance

Attention:

To maintain good accuracy, it is recommended that recalibration is required approximately every year.

- 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 screwdriver 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.

Specification

Code	IST-3SD50	IST-3SD200	IST-3SD400	IST-3SD600
Range	10~50cN.m	40~200cN.m	80~400cN.m	120~600cN.m
Accuracy	clockwise	±2%		
	counter-clockwis	±3%		
Resolution	0.1cN.m			
Size of hex socket (L)	1/4"			
Power supply	1 x 3.7V replaceable lithium battery			
Length	203mm			
Weight	190g			