

Please read and save these instructions. Read through this owner's manual carefully before using product. Protect yourself and others by observing all safety information, warnings, and cautions. Failure to comply with instructions could result in personal injury and/or damage to product or property. Please retain instructions for future reference.

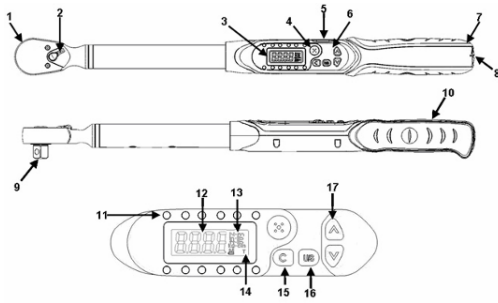


Digital Torque Wrench

MAIN FEATURES

- Digital torque value readout
- +/- 2% accuracy clockwise
- CW and CCW operation
- Peak hold and track mode selectable
- Buzzer and LED indicator for the pre-settable target torque
- Engineering units(N-m, ft-lb, in-lb, kg-cm) selectable
- Auto Sleep after about 5 minutes idle
- Rechargeable batteries are compatible

NAMES AND FUNCTIONS OF PARTS



- | | |
|----------------------------|---------------------------------|
| 1. Reversible Ratchet Head | 11. LED Indicator |
| 2. Direction Lever | 12. Torque Value |
| 3. LCD Readout | 13. Unit(N-m,ft-lb,in-lb,kg-cm) |
| 4. Buzzer | 14. Peak/Track Mode |
| 5. Communication Port | 15. Power on/Clear Button |
| 6. Button | 16. Unit/Setting Button |
| 7. Battery Compartment | 17. Up/Down Button |
| 8. Battery Cover | |
| 9. Ratchet Driver | |
| 10. Anti-slip Handle | |





Digital Torque Wrench

SPECIFICATIONS

Model	Square drive (inches)	Max. operation range
4RYL2	1/4	30 N-m / 22.12 ft-lb / 265.5 in-lb / 306.1 kg-cm
4RYL3	3/8	135 N-m / 99.5 ft-lb / 1195 in-lb / 1378 kg-cm
4RYL5	1/2	135 N-m / 99.5 ft-lb / 1195 in-lb / 1378 kg-cm
4RYL6	1/2	200 N-m / 147.5 ft-lb / 1770 in-lb / 2041 kg-cm
4RYL8	1/2	340 N-m / 250.7 ft-lb / 3009 in-lb / 3469 kg-cm
4RYL9	3/4	410 N-m / 302.3 ft-lb / 3268 in-lb / 4184 kg-cm

Accuracy *1	CW : $\pm 2\%$ CCW : $\pm 3\%$
Communication	No
Operation Mode	Peak hold / Track
Unit Selection	N-m, ft-lb, in-lb, kg-cm
Head Type	Lever Type Ratchet
Gear Teeth	36
Button	4
Bright LED	12LED/ 4Red+8Green
Pre-setting	1 set
Battery	AA x 2
Battery Life *2 (Continuous operation)	110 hrs.
Battery Life *2 (Standby)	1 year
Operating Temperature	-10°C ~ 60°C
Storage Temperature	-20°C ~ 70°C
Humidity	Up to 90% non-condensing
Drop Test	1 m
Vibration Test *3	10G
Life time *4	10000 cycle
Environmental test *5	Pass
Electromagnetic compatibility test *6	Pass

* : Please see note

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. Calibration point is at the middle line of black circle area on the rubber grip. 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 two AA batteries (Test condition: Toshiba carbon-zinc R6UG battery)
- *3: Horizontal and vertical test
- *4: One cycle means swing the torque wrench from 0 N-m to maximum range and back to 0 N-m.
- *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

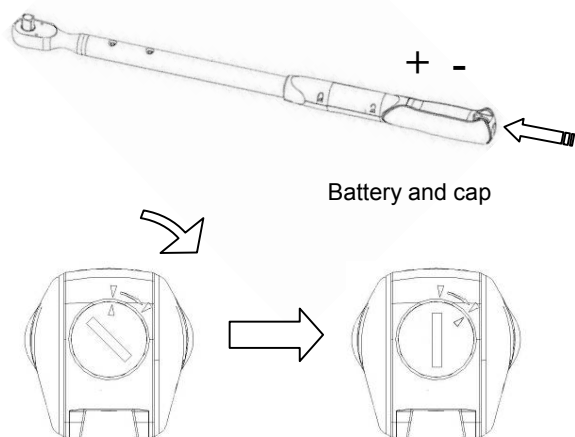


Digital Torque Wrench

BEFORE USING THE WRENCH

BATTERY INSTALLATION

- Remove the battery cover.
- Insert two R6/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 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/reset or wake up period, an initial torque offset will exist in the memory.

ACTIVATION DURING SLEEP MODE

- The wrench will auto sleep after about 5 minutes idle for power saving. Press **C** to wake up the wrench during the sleep mode.

CAUTION

During communication period (**send** appears), the sleep function is disabled.

RESETTING THE WRENCH

- Press **C** **▲** together will reset the wrench.
- If the wrench does not function normally, press **C** **▲** together to reset the wrench.

LOW BATTERY VOLTAGE PROTECTION

- If the battery serial voltage is in low voltage status, the wrench will display a battery symbol and then turn off after a while.

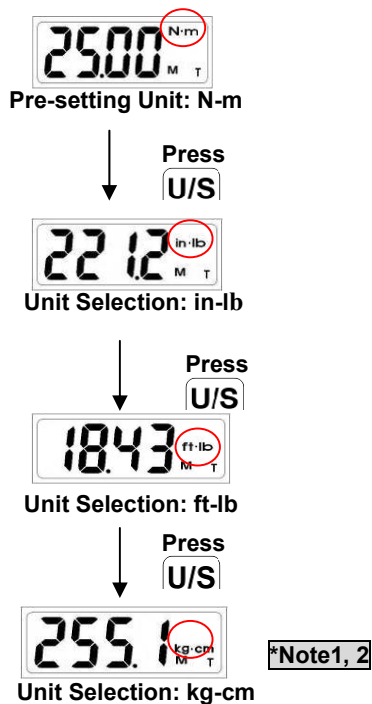




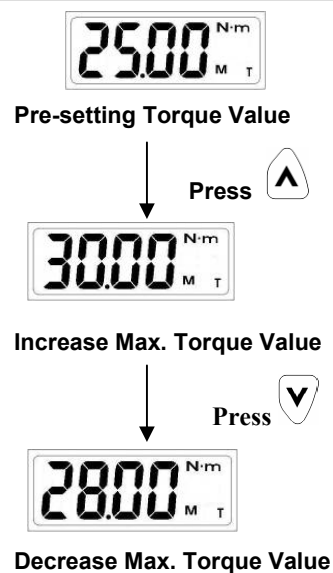
Digital Torque Wrench

SETUP

STEP 1: UNIT SELECTION



STEP 2: SET TORQUE VALUE



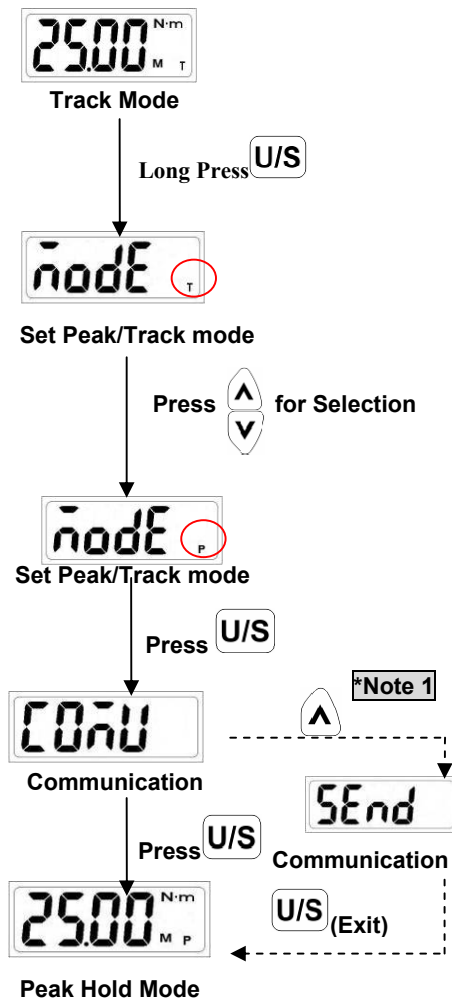
Note:

1. The "Unit Selection" is in sequential.
2. If is appeared, that means this wrench has ever been applied more than 110% of the max. torque.



Digital Torque Wrench

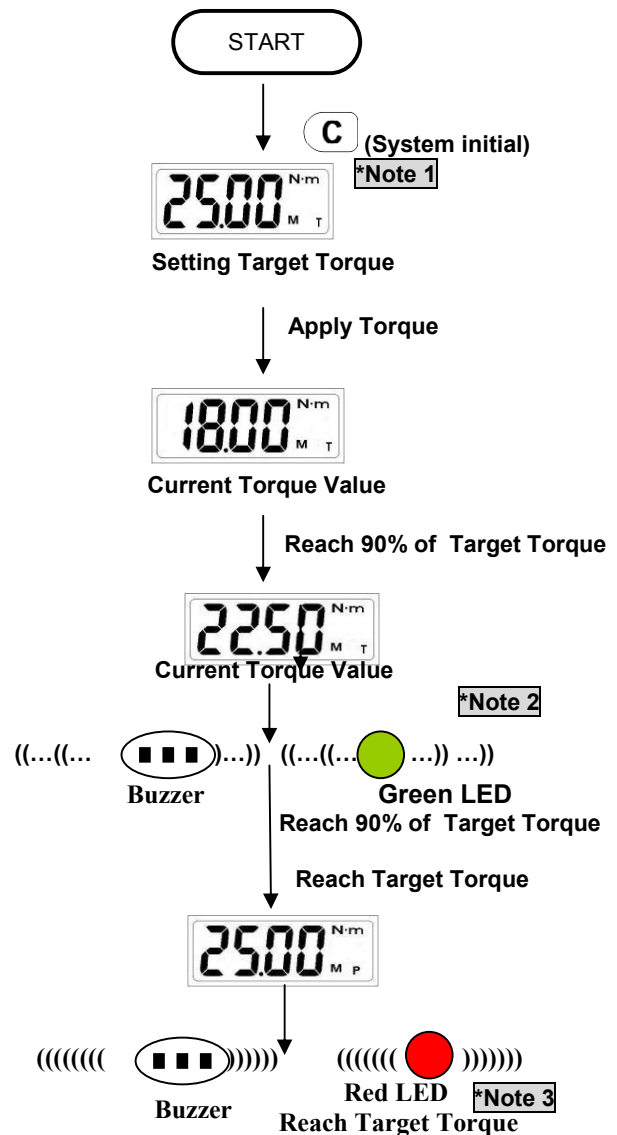
STEP 3 : PEAK HOLD /TRACK MODE SELECTION



Note:

1. Communication is for calibration of torque wrench. Please contact your local dealer for more information.

TRACK MODE OPERATION



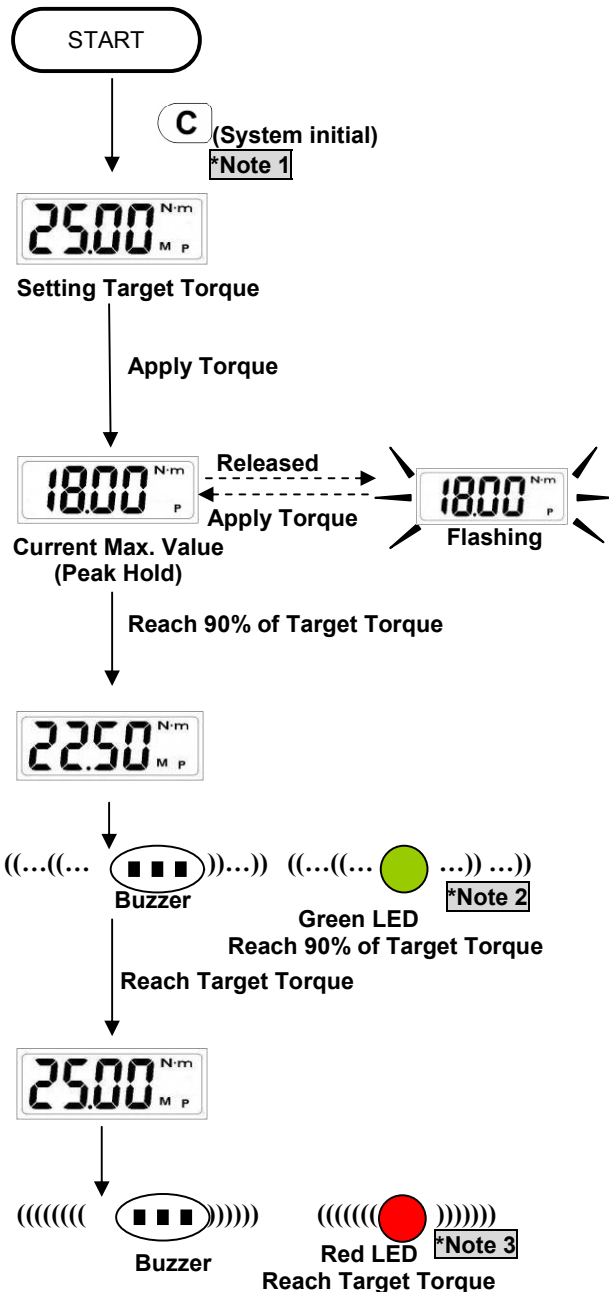
Note:

1. If **Er0** is appeared, that means this wrench has ever been applied more than 110% of the max. torque.
2. The green LED will be on for 90% of target torque.
3. When reaching the target torque, the green and red LED will be on at the same time.



Digital Torque Wrench

PEAK HOLD MODE OPERATION



Note:

1. If **Er0** is appeared, that means this wrench has ever been applied more than 110% of the max. torque.
2. The green LED will be on for 90% of target torque.
3. When reaching the target torque, the green and red LED will be on at the same time.



Digital Torque Wrench

MAINTENANCE AND STORAGE

ATTENTION:

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

▲ CAUTION

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.

Warranty

LIMITED ONE-YEAR WARRANTY

Should this product fail to perform satisfactorily due to a defect or poor workmanship within ONE YEAR from the date of purchase, return it to the place of purchase and it will be replaced, free of charge. Incidental or consequential damages are excluded from this warranty.

For Repair Parts, call 1-800-323-0620
24 hours a day – 365 days a year

Please provide the following:

- Model Number
- Serial Number (if any)