

	12 7 → 19 mm	13 13 → 36 mm
	10 7 → 19 mm	11 13 → 32 mm
	S.305P	
	R.373	J.373
	R.372	J.372V
	S.372	S.372V
	S.382	S.382V
	kg	1,52
	mm	390
	mm	415
	mm	530
	mm	650
	R.372	J.372
	S.372	S.382
	S.382	S.382
	9 x 12	9 x 12
	14 x 18	14 x 18
	14 x 18	14 x 18
	kg.cm min. max.	15,3 → 306,1
	in.lb min. max.	13,3 → 265,5
	ft.lb min. max.	1,11 → 22,12
	N.m min. max.	1,5 → 30
	E.306-30D	E.306-135D
	E.306-200D	E.306-340D

EN

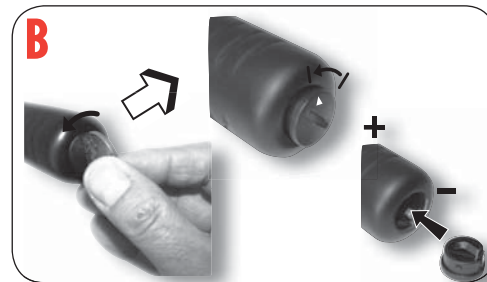
Dear Customers,
Thank you for purchasing our digital torque wrench. This manual will help you to use the many features of your new digital torque wrench. Before operating the torque wrench, please read this manual completely, and keep it nearby for future reference

MAIN FEATURES

- Head Interchangeable
- Digital torque value readout
- +/- 1% or +/-2% accuracy
- CW and CCW operation
- Peak hold and track mode selectable
- Buzzer and LED indicator for the 9 pre-settable target torques
- Engineering units(N.m, ft.lb, in.lb, kg.cm) selectable
- 50 or 250 data memory for recall and joint torque auditing
- Auto Sleep after about 5 minutes idle
- Both AA and rechargeable batteries are compatible

NAMES AND FUNCTIONS OF PARTS

1. LCD Display
2. Buzzer
3. Communication Port
4. Buttons
5. Battery Compartment
6. Battery Cover
7. LED Indicator
8. Torque Value
9. Max. Value Index
10. Units(N.m, ft.lb, in.lb, kg.cm)
11. P(Peak hold mode)/T(Track mode)
12. Clear Button
13. Max. Value Select
14. Unit/Setting Button
15. Up/Down Button



SPECIFICATIONS

	E.306-30D - E.306-135D E.306-200D - E.306-340D
Accuracy *1	±2%
Data memory size	250
PC Connectivity *2	Yes / USB
Pre-setting No.	9 sets
Bright LED	12 LED / 2 Red+10 Green
Operation Mode	Peak Hold / Track
Unit Selection	N.m, ft.lb, in.lb, kg.cm
Head Type	Round Head Ratchet Insert
Button	5
Battery	AA x 2
Battery Life *3 (Continuous operation)	110 hrs.
Battery Life *3 (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 *4	10 G
Life time *5	10000 cycle
Environmental test *6	Pass
Electromagnetic compatibility test *7	Pass

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 line is at the middle line of the dark spot on the rubber handle. 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 USB cable (accessory) to upload record data to PC.

*3: Use two AA batteries (Test condition: Toshiba carbon-zinc R6UG battery)

*4: Horizontal and vertical test

*5: One cycle means swing the torque wrench from 0 N.m to maximum range and back to 0 N.m.

*6: Environmental test:

- a. Dry heat
- b. Cold
- c. Damp heat
- d. Change of temperature
- e. Impact (shock)
- f. Vibration
- g. Drop

*7: Electromagnetic compatibility test:

- a. Electrostatic discharge immunity (ESD)
- b. Radiated susceptibility
- c. Radiated emission

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BEFORE USING THE WRENCH

BATTERY INSTALLATION **B**

- Remove the battery cover.
- 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 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.

CAUTIONS:

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

RESETTING THE WRENCH

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

LOW BATTERY VOLTAGE PROTECTION

- If the battery serial voltage is under 2.3 volts, the wrench will display a battery symbol and then turn off after a while.



SET UP

- If the battery serial voltage is under 2.3 volts, the wrench will display a battery symbol and then turn off after a while.



- Power On/Clear
- Unit Selection/Setting
- Up/Down Button
- Pre-Setting No.

STEP 1: PRE-SETTING NO.



Pre-setting: M1

Press **M**



Pre-setting: M2

Press **M**



Pre-setting: M9

- Note:**
- If **Er0** is appeared, that means this wrench has ever been applied more than 110% of maximum torque.
 - The maximum capacity for "Pre-setting No." is 9 sets.
 - The "Pre-Setting No." is in sequential.

STEP 2: UNIT SELECTION



Pre-setting: Unit: N.m

Press **U/S**



Pre-setting: Unit: in.lb

Press **U/S**



Pre-setting: Unit: ft.lb

Press **U/S**



Pre-setting: Unit: kg.cm

STEP 4: PEAK HOLD /TRACK MODE SELECTION



Track Mode

Long Press **U/S**



Set Peak/Track mode

Press **A**



Set Peak/Track mode

Press **U/S**



Record No.

Press **U/S**



Clear Record

Press **U/S**



Peak Hold Mode

- Note:**
- Please skip this procedure and continue to the next step.

STEP 3: SET TORQUE VALUE



Pre-setting Torque Value

Press **A**



Increase Max. Torque Value

Press **V**



Decrease Max. Torque Value

- Note:**
- The "Unit Selection" is in sequential.

TRACK MODE OPERATION



Max. Target Value

Apply torque over 5 N.m



Current Torque Value

Over 80% of Max. Target Value



Current Torque Value

Over 80% of Set Torque



Current Torque Value

Over Max. Target Value

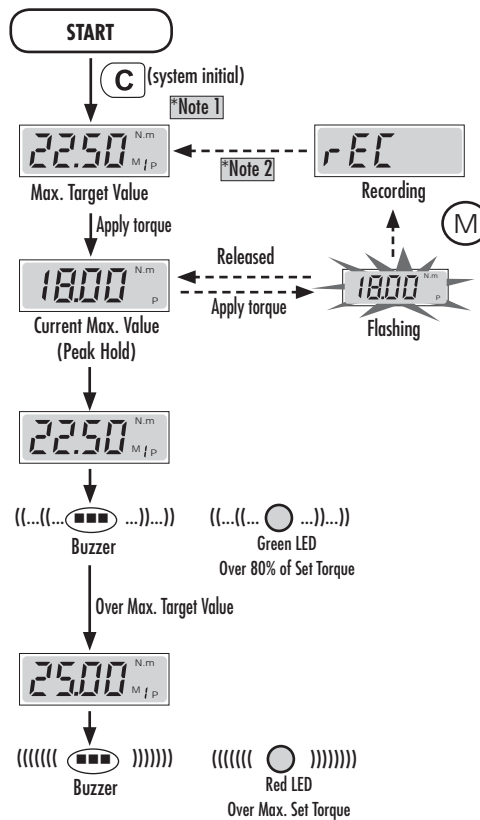


Reach Max. Set Torque

- Note:**
- If **Er0** is appeared, that means this wrench has ever been applied over than 110% of maximum torque.
 - If **Full** is appeared, that means the wrench's memory is full and the next value record can not be written in. Please refer the "Peak Hold Mode Recorded Value Review" section to clear the memory data.
 - The green LED will be on for 80%, 85%, 90%, 95% and 97.5% of maximum setting torque.
 - The red LED will be on for 100% of maximum setting torque.

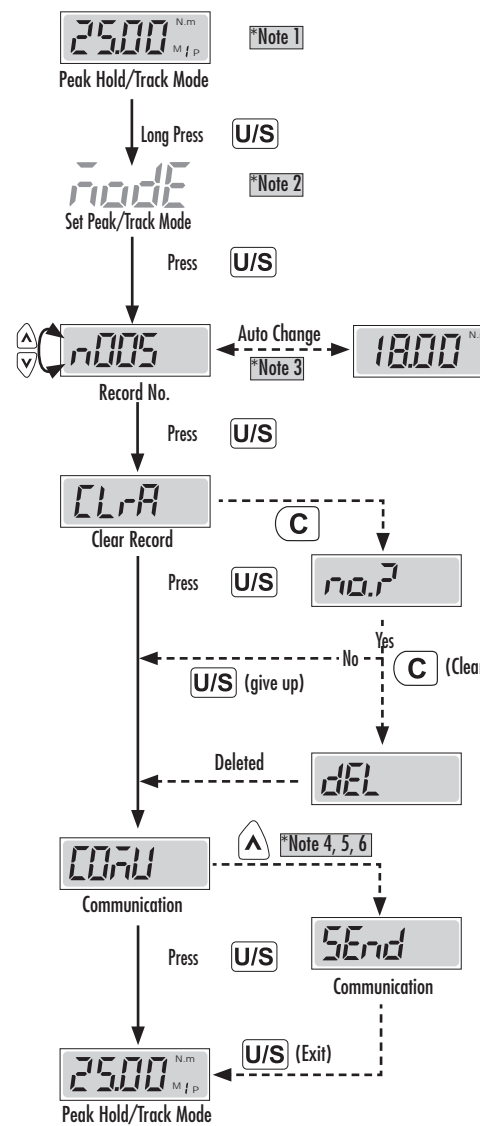
- Note:**
- If **Er0** is appeared, that means this wrench has ever been applied over than 110% of maximum torque.
 - When using track mode, if you apply torque over 5 N.m, the LCD display will start to display the torque value. If the applied is less than 5 N.m, the LCD display does not have any value changes. The smallest torque for WC2-030 series is 0.5 N.m.
 - The green LED will be on for 80%, 85%, 90%, 95% and 97.5% of maximum setting torque.
 - The red LED will be on 100% of maximum setting torque.

PEAK HOLD MODE OPERATION



- Note:**
- The "Peak Hold" mode recorded value review also can be operated in "Track" mode operation.
 - If you operate in the "Peak Hold" mode, the display will show **modE** and please go to next step.
 - If the record is empty, it will show **nonE**.
 - Communication mode is for uploading record data to PC.
 - Communication mode is also for calibration of torque wrench. Please contact your local dealer for more information.

PEAK HOLD MODE RECORDED VALUE REVIEW



- Note:**
- The "Peak Hold" mode recorded value review also can be operated in "Track" mode operation.
 - If you operate in the "Peak Hold" mode, the display will show **modE** and please go to next step.
 - If the record is empty, it will show **nonE**.
 - Communication mode is for uploading record data to PC.
 - Communication mode is also for calibration of torque wrench. Please contact your local dealer for more information.

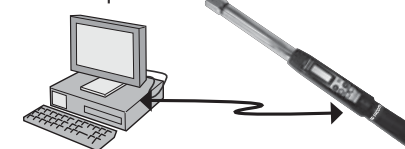
COMMUNICATION

Precaution:

- Communication function is only supported on some models. Check the model no. and its specification before using communication function.
- 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 USB COM port of PC and torque wrench.



UPLOADING RECORD DATA

- Make sure the connection between PC and wrench is normal.
- Press **C** **A** together to reset the wrench.
- Change the wrench operation mode to "Send". (Refer to "Peak Hold Mode Recorded Value Review" section)
- Use PC to start the uploader program.
- In uploader program, first select the correct COM port No.
- Next, select the file path to save the uploaded data.
- Finally, press "upload" button to transmit the torque records to PC.
- The uploaded data is then shown on the column and saved in the *.csv file. Use Microsoft Excel to view *.csv file.

- CAUTIONS:**
- 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 calibrations.

CAUTION:

- Over-torque (110% of Max. torque range) could cause breakage or lose accuracy.
- Do not shake violently or drop wrench.
- Do not use this wrench as a hammer.
- Do not leave this wrench in any place exposed to excessive heat, humidity, or direct sunlight.
- Do not use this apparatus in water.(not waterproof)
- If the wrench gets wet, wipe it with a dry towel as soon as possible. The salt in seawater can be especially damaging.
- Do not use organic solvents, such as alcohol or paint thinner when cleaning the wrench.
- Keep this wrench away from magnets.
- Do not expose this wrench to dust or sand as this could cause serious damage.
- Do not apply excessive force to the LCD panel.
- Apply torque slowly and graspe the center of the handle. Do not apply load to the end of handle

BATTERY MAINTENANCE

- When the wrench is not used for an extended period of time, remove the battery.
- Keep a spare battery on hand when going on a long trip or to cold areas.
- Do not mix battery types or combine used batteries with new ones.
- Sweat, oil and water can prevent a battery's terminal from making electrical contact. To avoid this, wipe both terminals before loading a battery.
- Dispose of batteries in a designated disposal area. Do not throw batteries into a fire.