

## Application Instructions for Digital Torque Wrench MC 100/E and MC 200/E

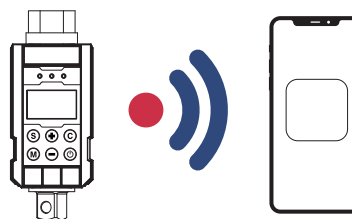
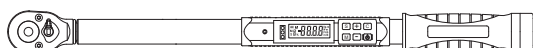
### BEFORE STARTING

1. Study this instruction before use.
2. Please connect to the Internet.
3. Please read product manual and do the settings first, then connect to the APP.
- 4. User needs to decide which category (single or multiple) to work before open APP.**
- 5. APP correspond the category according to the tolerance setting.**
6. If the user wants to switch the category, APP has to be closed and the tool needs to reset the tolerance and then re-start APP.
7. Reach target torque will have beep sound and vibration alert.
8. Tolerance setting in work task is depending on the object's requirement.
9. Delete password setting is once only if password lost, it is to delete the APP and reinstall. (Default password: TORQUETOOLS)
10. Please exit the APP and disconnect the product in order to save battery life.



### General introduction

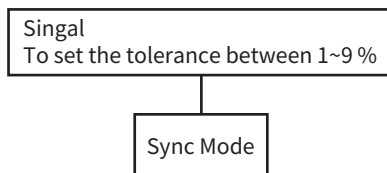
Please do the settings on the product first, then connect to the APP.  
Relevant product : Digital torque wrench, Torque adapter



### Two categories and five modes

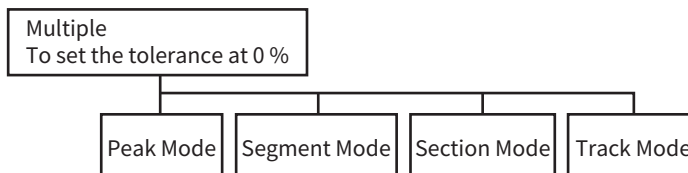
#### Category 1 : Singal

To set the tolerance between 1~9 % on the digital torque wrench then open APP.



#### Category 2 : Multiple

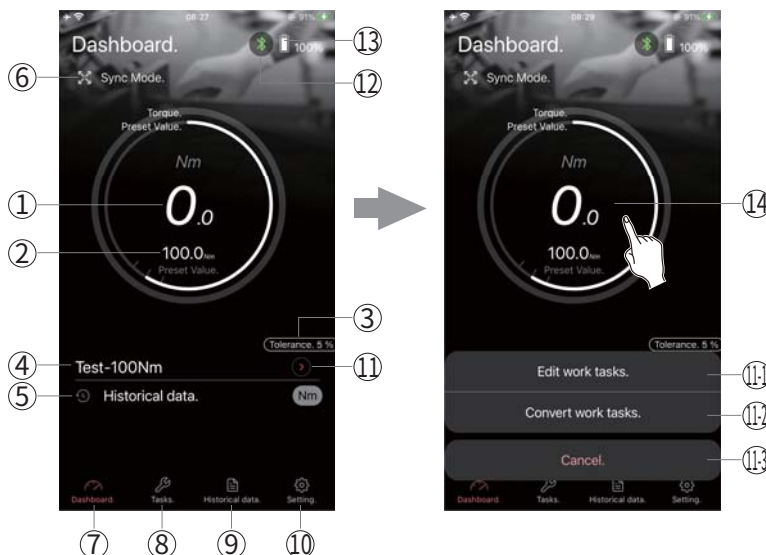
To set the tolerance at 0 % on the digital torque wrench then open APP.  
Mode : Peak, Batch, Section, Track



### INTRODUCTION OF DASHBOARD

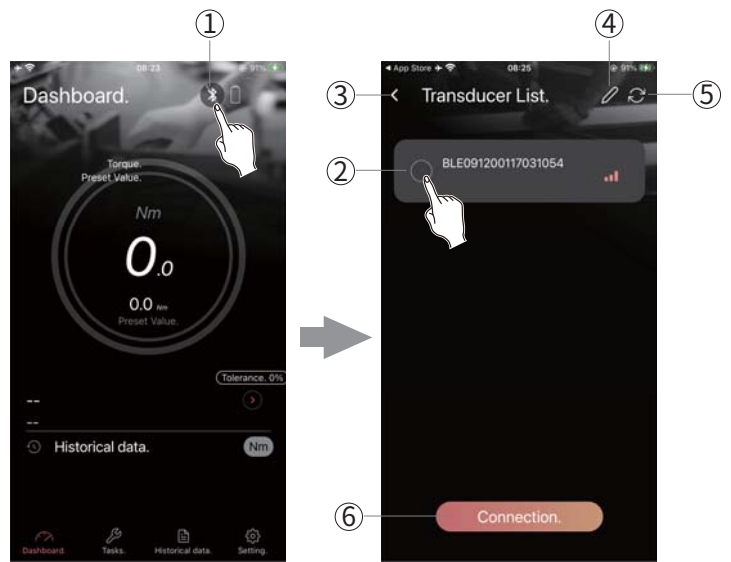
#### 1. Dashboard

- ① Real time torque value.
- ② Preset Value.
- ③ Tolerance.
- ④ Work Task.
- ⑤ To show the latest five records of historical data.
- ⑥ Current work task.
- ⑦ Dashboard.
- ⑧ Tasks.
- ⑨ Historical data.
- ⑩ Setting.
- ⑪ To convert current task to a different mode.
  - ⑪-1 『Edit work tasks.』
  - ⑪-2 『Convert work tasks.』
  - ⑪-3 『Cancel.』
- ⑫ Transducer List.
- ⑬ Transducer battery level.
- ⑭ Press the screen for a while, torque value can be reset to zero.



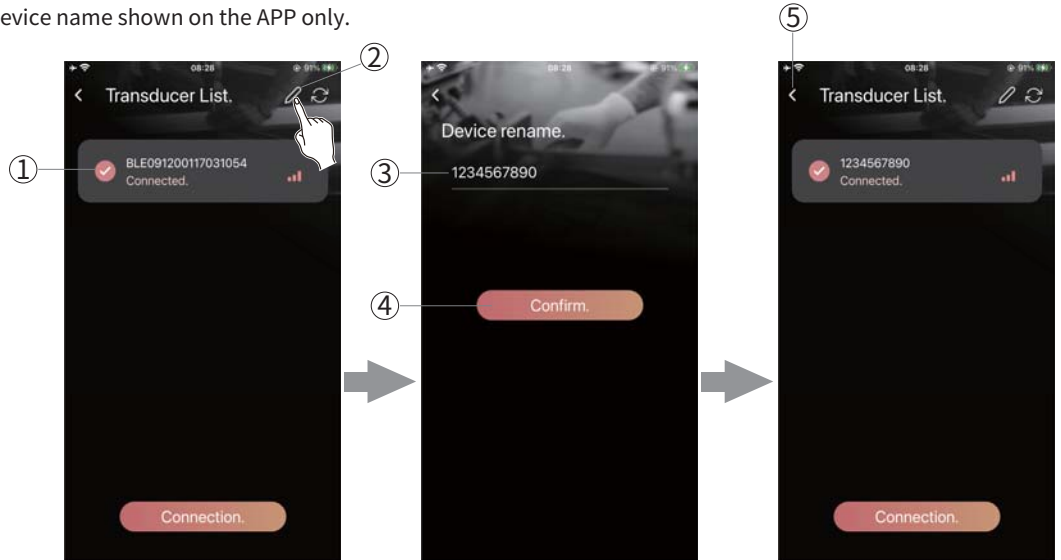
## 2. A. Transducer List

- ① Click transducer list.
- ② Available transducer.
- ③ Return to dashboard.
- ④ Select the pen then user can rename the device.  
(It must be connected to the tool before changing name.)
- ⑤ Reload.
- ⑥ To select the tool and press connection.



## B. Device Rename

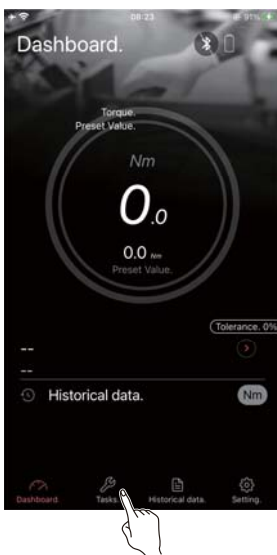
- ① Make sure the tool is connected.
- ② Select the pen to rename.
- ③ This is to change the device name shown on the APP only.
- ④ Confirm.
- ⑤ Return to dashboard.



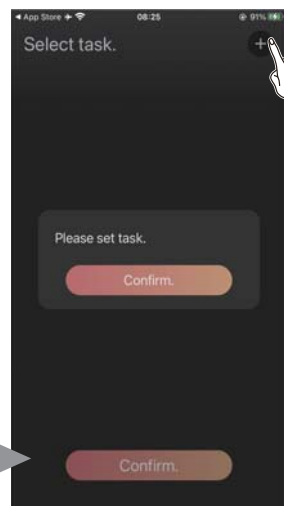
## 3. To add task

For example, the tolerance sets between 1~9%.

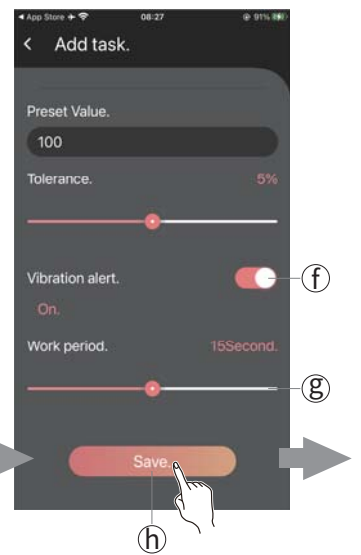
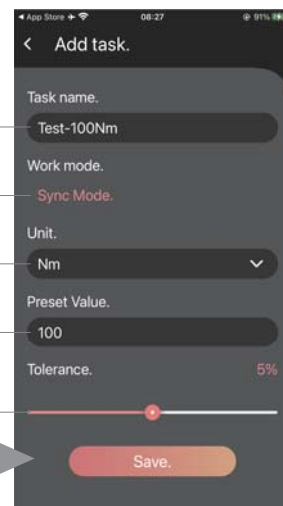
1. Select task.



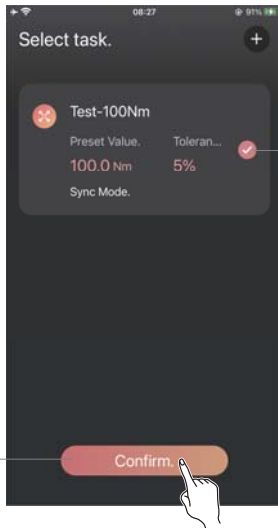
2. Select "+" to add task.



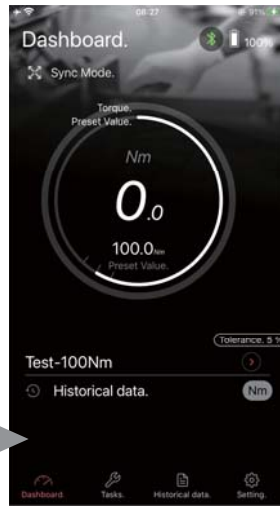
3. Fill the information in and save.



#### 4. Complete.



#### 5. Starting with Sync mode. (Selecting the work task for the task)



- (a) Task name : this is to be decided by the user, it can be the item number or a serial number.
- (b) APP correspond the category according to the tolerance setting.
- (c) Unit : kg-m, N-m, ft.lb, in.lb
- (d) Preset value.
- (e) Tolerance.
- (f) Vibration alert.
- (g) Work period.

NB.

1. Failed to target torque.
2. Duplicate operation after reaching target torque.
3. If set work period at 0 second, cancel the reminder function.

- (h) Save.
- (i) Select work task.
- (j) Save and select your task then return to dashboard.

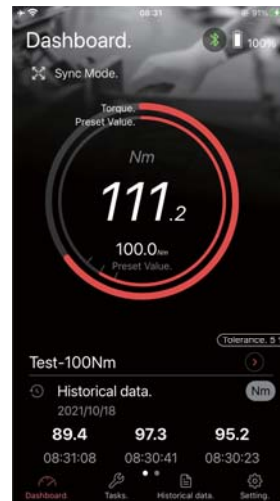
#### 4. Introduction of dashboard

For example, Preset value : 100 Nm, Tolerance : 5 %, Range : 95 ~ 105 Nm.

● Yellow line : Less than 95 Nm.

● Green line : In the target tolerance.

● Red line : Over than 105 Nm.



#### 5. Changing task

1. Selecting 『>』.

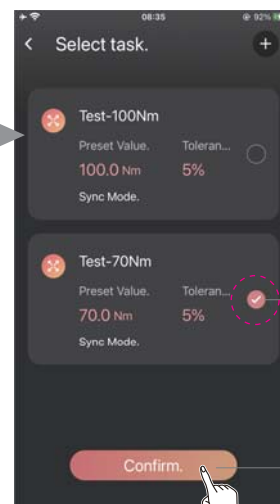


2. Edit / Convert work task.



① Select work task.

② Confirm and return to dashboard.

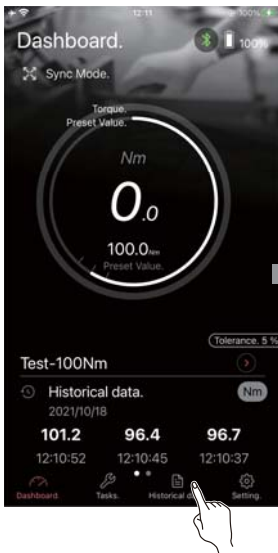


3. Start operation.

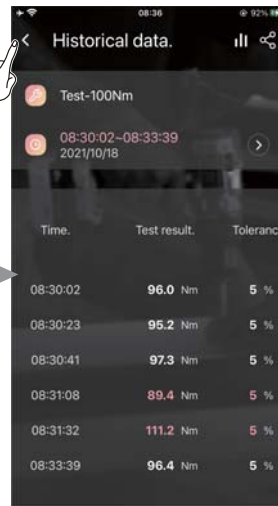
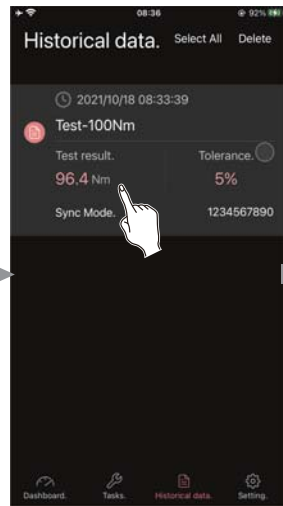


## 6. Historical data.

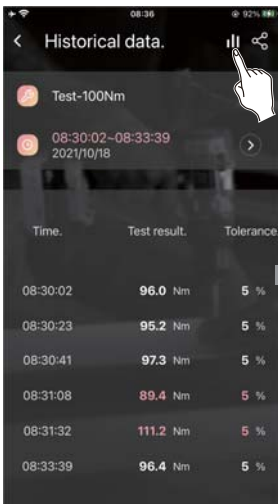
1. Selecting historical data.



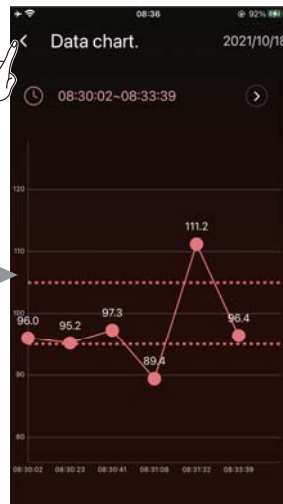
2. User can read the latest record. 3. 『<』 Back.



1. Data can be read in graph or sharing out 『||』.



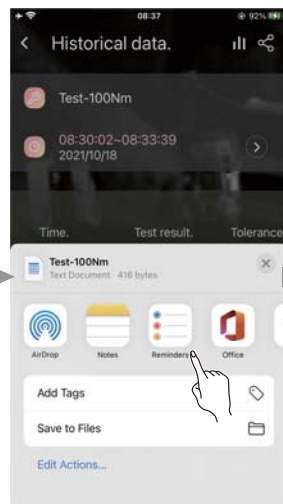
2. 『<』 Back.



1. Read in graph 『||』.



2. To share.



3. Result.

Date/Time	Test Result	Unit	Tolerance	Presel Value	Relative Deviation(%)
2021-10-18 08:30:02	96.0	Nm	5%	100.0	-4.0%
2021-10-18 08:30:23	95.2	Nm	5%	100.0	-4.8%
2021-10-18 08:30:41	97.3	Nm	5%	100.0	-2.7%
2021-10-18 08:31:08	89.4	Nm	5%	100.0	-10.6%
2021-10-18 08:31:32	111.2	Nm	5%	100.0	11.2%
2021-10-18 08:33:39	96.4	Nm	5%	100.0	-3.6%

## INTRODUCTION OF MODES

### 1. Sync Mode.

Setting in the tool and read data from the tool, then record in the APP.

- a. To set the tolerance between 1~9% on the digital torque wrench.
- b. Switch on the APP and connected to the tool.
- c. Relevant information fills in.
  - >> Task name.
  - >> Unit : kg-m, N-m, ft.lb, in.lb
  - >> Preset value.
  - >> Vibration alert.
  - >> Work period.
  - >> Save.
  - >> Select your task then return to dashboard.
  - >> Confirm.
- d. Save and select your task then return to dashboard.

NB. Relevent setting to P2 "3. To add task".

### 2. Peak Mode.

To record from the tool and do the settings from the APP.

- a. To set the tolerance at 0% on the digital torque wrench.
- b. Switch on the APP and connected to the tool.
- c. Relevant information fills in.
  - >> Task name.
  - >> Work mode: Peak mode.
  - >> Unit : kg-m, N-m, ft.lb, in.lb
  - >> Pre-set.
  - >> Vibration alert.
  - >> Work period.
  - >> Save.
  - >> Select your task then return to dashboard.
  - >> Confirm.
- d. Save and select your task then return to dashboard.

For example :

Preset value : 80 Nm.

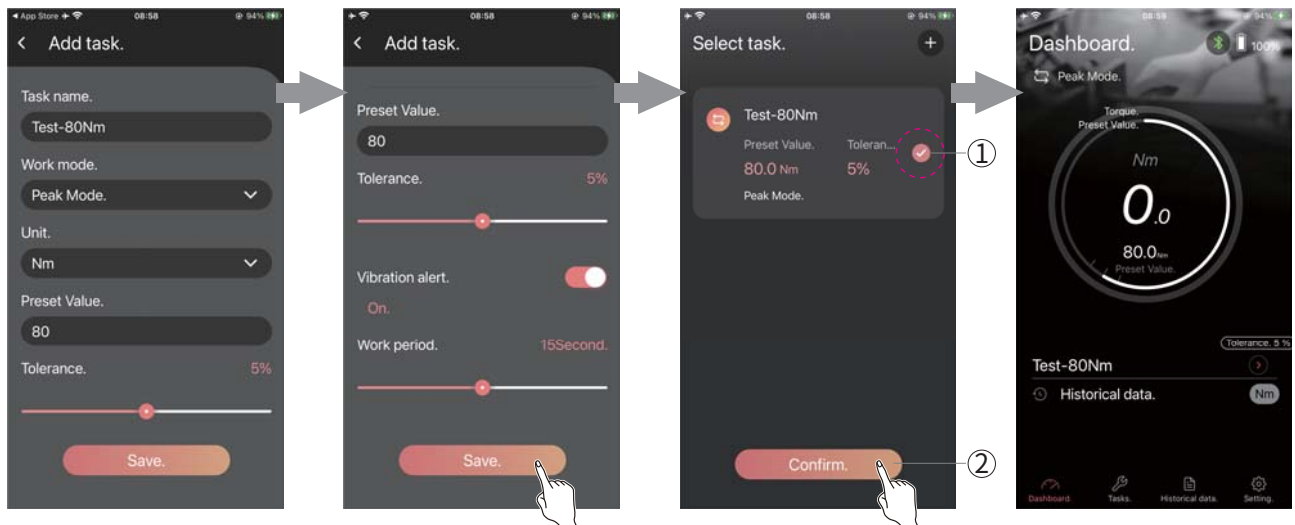
1. Edit work task.

2. Confrm.

① Select work task.

② Confrm and back to dashboard.

3. Peak Mode.



### 3. Segment Mode.

To record from the tool and do the settings from the APP. and maximum 100 pcs in a segment.

- a. To set the tolerance at 0 % on the digital torque wrench.
- b. Switch on the APP and connected to the tool.
- c. Relevant information fills in.
  - >> Task name.
  - >> Work mode : Segment mode.
  - >> Test quantity : 1~100 sets.
  - >> Unit : kg-m, N-m, ft.lb, in.lb
  - >> Preset Value.
  - >> Vibration alert.
  - >> Work period.
  - >> Save.
  - >> Select work task.
  - >> Confirm.
- d. Save and select your task then return to dashboard.

For example :

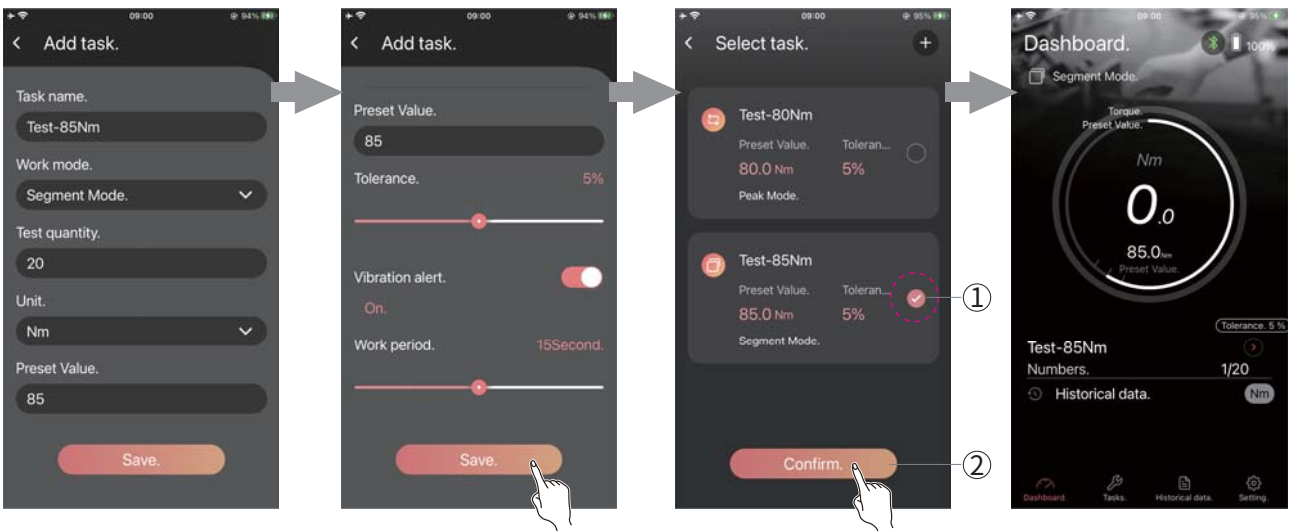
Test quantity : 20 sets, preset value : 85 Nm.

1. Edit work task.

2. Confirim.

① Select work task.  
② Save and select your task then return to dashboard.

3. Segment Mode.



**4. Section Mode.**

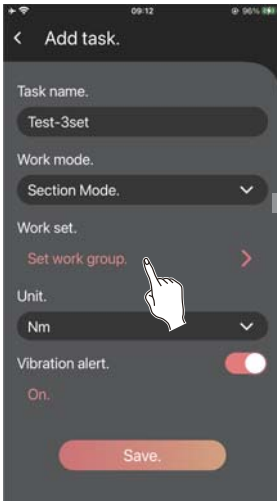
To record from the tool and do the settings from the APP by setting work group.

- a. To set the tolerance at 0 % on the digital torque wrench.
- b. Switch on the APP and connected to the tool.
- c. Relevant information fills in.
  - >> Task name.
  - >> Work mode : Section Mode.
  - >> Unit : kg-m, N-m, ft.lb, in.lb
  - >> Work set : set work group by the user.
  - >> Pre-set value.
  - >> Vibration alert.
  - >> Work period.
  - >> Save.
  - >> Select work task.
  - >> Confirm.
- d. Save and select your task then return to dashboard.

For example :

- Work set : 1set to 5 test points with 60 Nm.
- Work set : 2set to 4 test points with 80 Nm.
- Work set : 3set to 6 test points with 50, 60, 70, 80, 90, 100 Nm.
- Recording 15 results by the testing sequence.

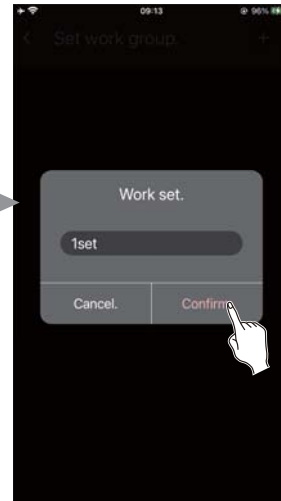
1. To set the unit before set work group.



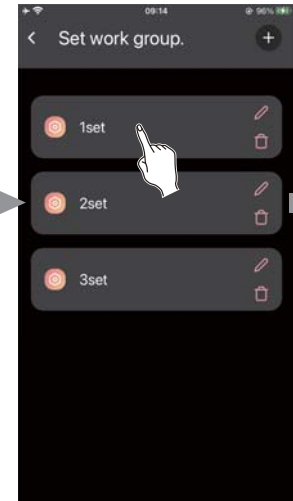
2. '+' To edit work sets.



3. Enter work group name : 1set confirm.  
'+' To edit 2set and 3set.



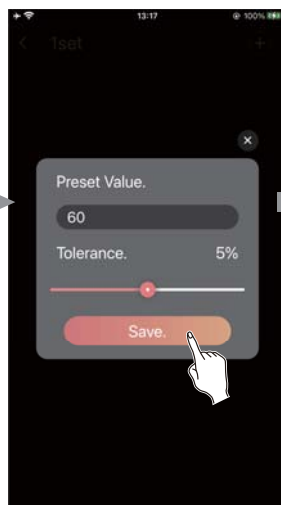
4. Complete 3set and set preset value in each set.



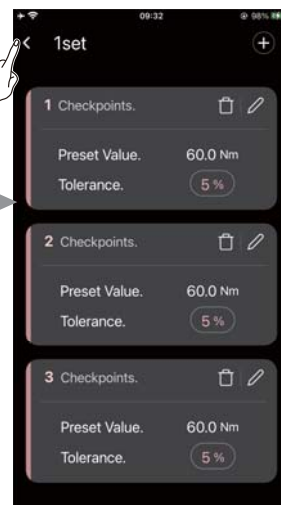
5. 1set '+' preset value.



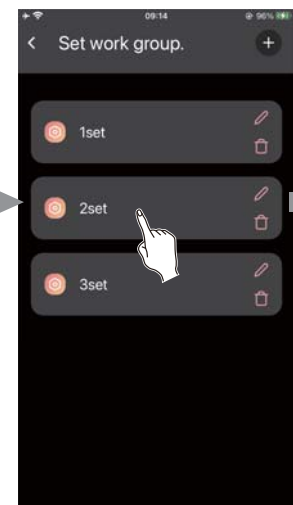
6. Confirm and apply previous preset value.



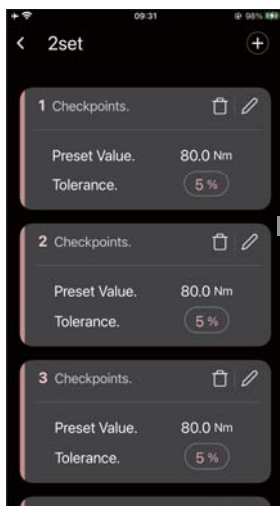
7. 3sets complete, '+' return to work group.



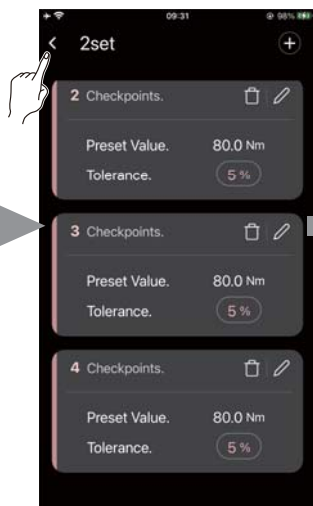
8. Repeat 5. to finish 2set and 3set setting.



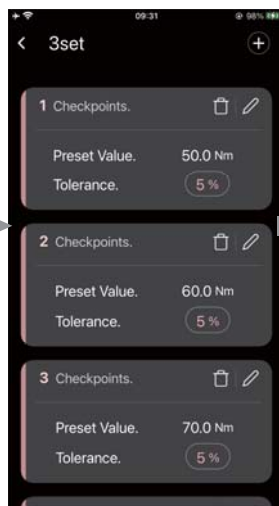
9. Edit 2set of 4 preset value.



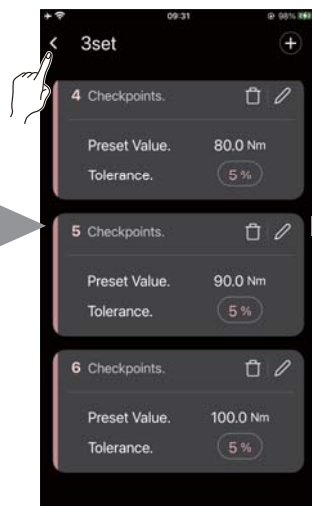
10. 『<』 Return to work group.



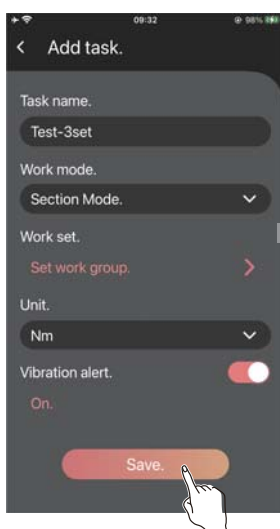
11. Edit 3set of 6 preset value.



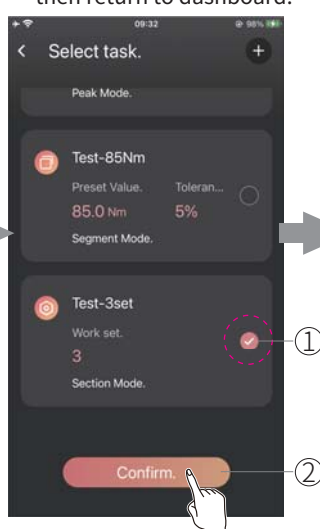
12. 『<』 Return to work group.



13. Save this Test-3set work task.



- ① Select task.
- ② Save and select your task then return to dashboard.



14. Section mode.



Result.

Done		Test-3set						
Date/Time	Test Number	Test Point	Test Result	Unit	Tolerance	Preset Value	Relative Deviation(%)	
2021-10-18 09:48:39	1set	1	63.6	Nm	5%	60.0	6.0%	
2021-10-18 09:48:43	1set	2	58.4	Nm	5%	60.0	-2.7%	
2021-10-18 09:48:46	1set	3	61.4	Nm	5%	60.0	2.3%	
2021-10-18 09:48:54	2set	1	76.2	Nm	5%	80.0	-4.8%	
2021-10-18 09:49:02	2set	2	81.3	Nm	5%	80.0	1.6%	
2021-10-18 09:49:05	2set	3	78.8	Nm	5%	80.0	-1.5%	
2021-10-18 09:49:08	2set	4	81.2	Nm	5%	80.0	1.5%	
2021-10-18 09:49:17	3set	1	49.6	Nm	5%	50.0	-0.8%	
2021-10-18 09:49:20	3set	2	57.1	Nm	5%	60.0	-4.8%	
2021-10-18 09:49:26	3set	3	71.6	Nm	5%	70.0	2.3%	
2021-10-18 09:49:29	3set	4	79.9	Nm	5%	80.0	-0.1%	
2021-10-18 09:49:32	3set	5	90.3	Nm	5%	90.0	0.3%	
2021-10-18 09:49:35	3set	6	98.4	Nm	5%	100.0	-1.6%	



## 5. Track Mode.

To record from the tool and do the settings from the APP by time setting.

- a. To set the tolerance at 0 % on the digital torque wrench.
- b. Switch on the APP and connected to the tool.
- c. Relevant information fills in.
  - >> Task name.
  - >> Work mode : Track mode.
  - >> Time setting : 1-999999 seconds by the user.
  - >> Unit : kg-m, N-m, ft.lb, in.lb
  - >> Preset Value.
  - >> Vibration alert.
  - >> Save.
  - >> Select work task.
  - >> Confirm.
- d. Save and select your task then return to dashboard.
- e. Touch the dial to start clock count down.
- f. Time's up, then stops data collection.
- g. If touch the dial before time's up, the clock count down stops.  
To read the material from historical data.

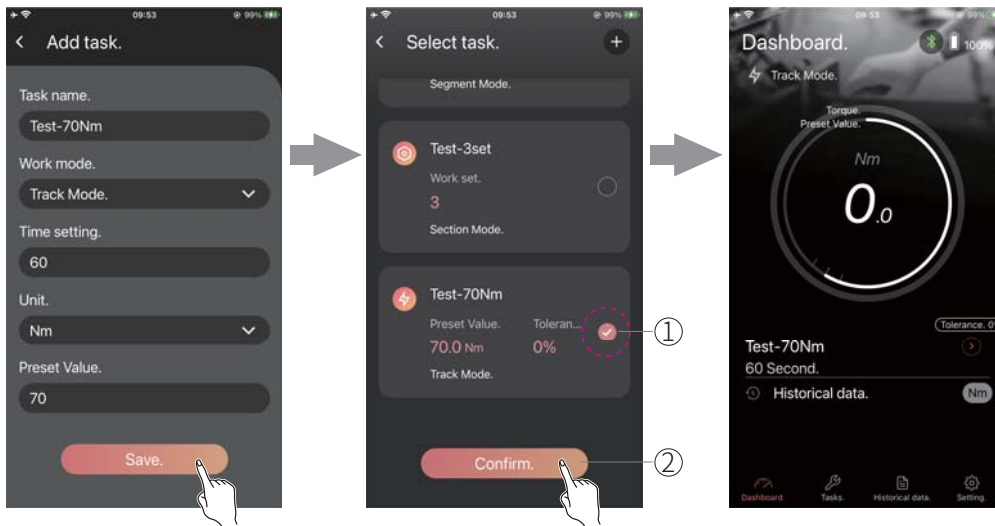
For example :

Operating hours : 60 second, preset value : 70 Nm

1. Add task.

- ① Work mode : Track mode.
- ② Save and select your task then return to dashboard.

2. Track mode.



## Q & A

Q : Why it cannot change work task?

A : Exit the APP and reset the tolerance at the product.

Q : How to switch work task?

A : If work in the same work mode, it can change the work task directly.

Or please refer to P1, 11-2 "Convert work tasks" or P3, 5 "Changing task".

Q : How to adjust volume?

A : iOS : From the Settings > Sounds & Haptics > RINGER AND ALERTS section > touch and hold the slider left or right to adjust the level.