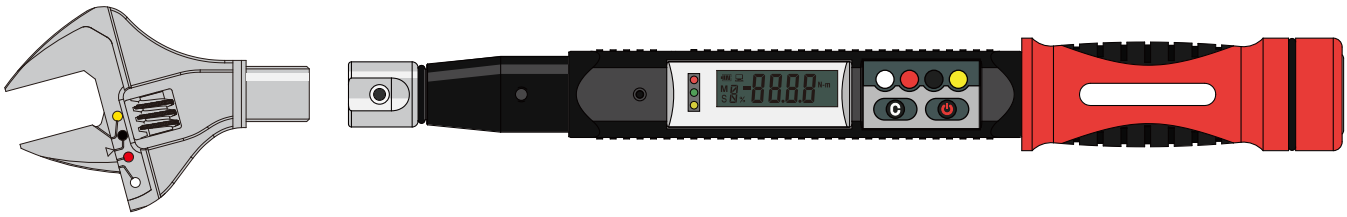
MATATAKITOYO TORQUE TOOLS

Digital Interchangeable Torque Handle for A/C
OPERATION MANUAL

Models covered

ACT

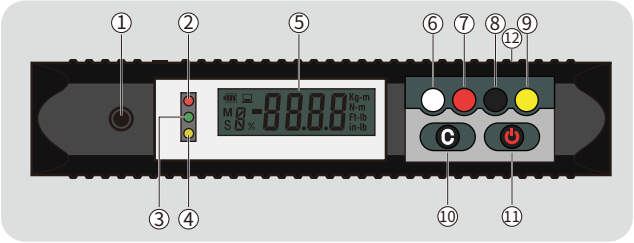
CE 9X12 14X18



BEFORE STARTING

1. Before operating this torque wrench study carefully these instructions.
2. Main usage & application digital torque wrench is different from general torque wrench, it has strong operation function including torque setting, mode setting, data storage, data clear and data output.
   It is easy to operate, it reduce the requirements for the operator by install the digital display.
   It is widely used for the automotive industry, machinery industry, such as bolt fastening and control.
3. Over-torquing (109% of Max. Torque range) could cause breakage or lose of accuracy.
4. Keep this digital torque wrench away from magnets. If the wrench gets wet, wipe it with a dry towel soon.
   The salt in seawater can damage the wrench.
5. Do not apply excessive force to the LCD screen .
6. The plastic body is not affected by petroleum products but may be damaged by some industrial solvents.
   Clean it by clean cloth soaked in mineral spirits or denatured alcohol. Never immerse this wrench or any part of it in any liquid.

PANEL

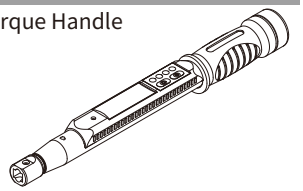


① Buzzer
② LED indicator (Red)
③ LED indicator (Green)
④ LED indicator (Yellow)
⑤ LCD panel
⑥ Quick set (Set)
⑦ Quick set (Up)
⑧ Quick set (Down)
⑨ Quick set (Memory)
⑩ Cancel
⑪ Power
⑫ Mini-USB Communication

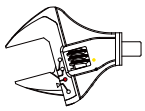
Battery
Communication
M Memo
S Setting
Direction
Values
N-m Units

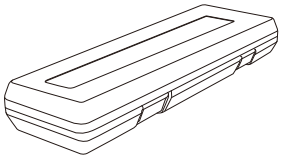
CONTENTS

Torque Handle



Adjustable Wrench Head





Supplied in a plastic box.

Manual

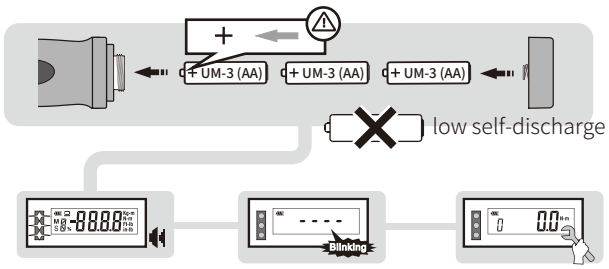
TORQUE PRE-SET VALUE

Button	○	●	●	●
TORQUE PRE-SET VALUE	65Nm	55Nm	42Nm	18Nm

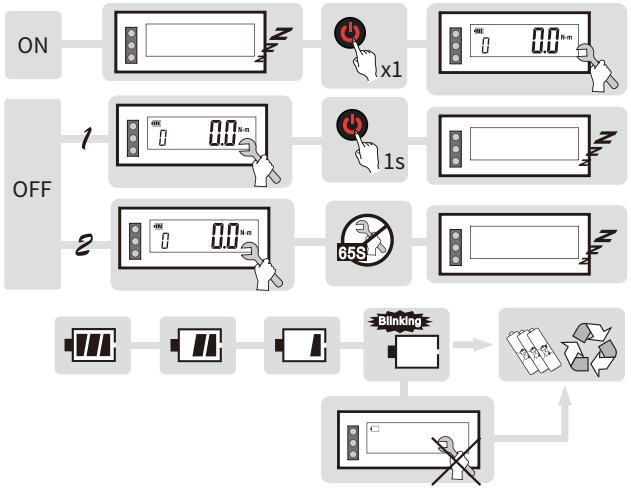
SPECIFICATIONS

- Accuracy : C.W. ± 1% / C.C.W. ± 1.5%
- Memory : 100 Readings
- Unit : N-m
- Operating Temperature : -10°C~55°C
- Storage Temperature : -40°C~85°C
- Humidity : 0~90%
- Battery : 1.5V UM-3 (AA) x 3 (Do not use low self-discharge battery)
- Warranty : 1 year in normal statement.

BATTERY INSTALLATION



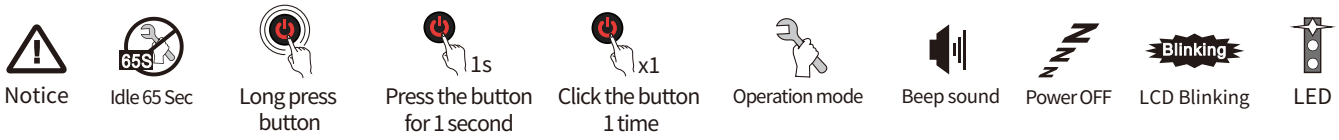
POWER



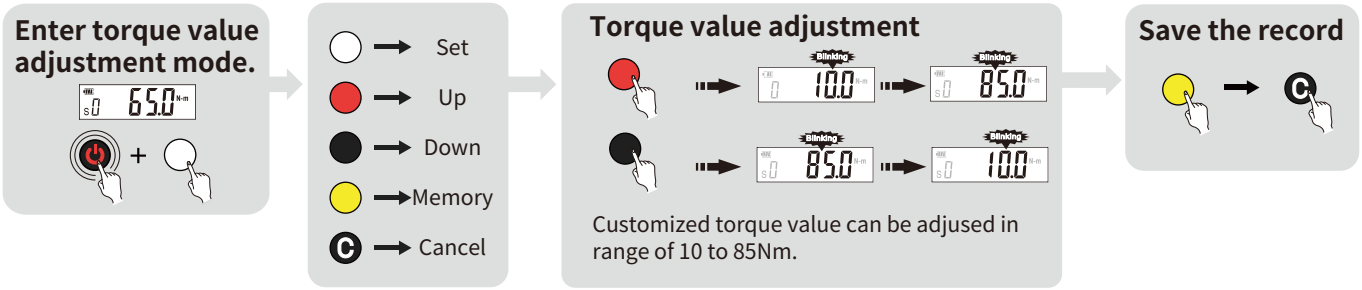
BATTERY MAINTENANCE

1. Please take the battery out if you do not use wrench for a long time .
2. Do not mix battery types or combine used batteries with new ones.
3. Sweat,oil and so on 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 designed disposal area. Do not throw batteries into a fire.

STATUS ICON DESCRIPTION

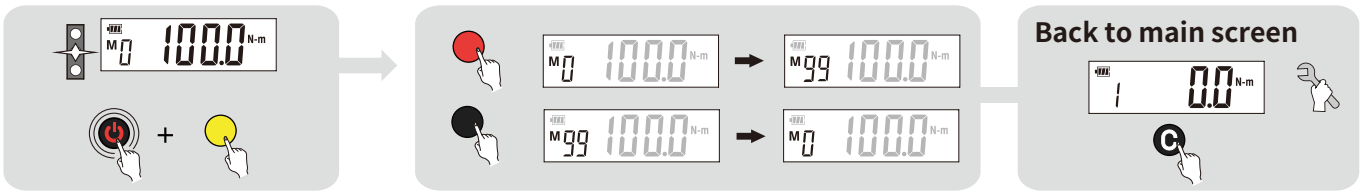


EDIT TORQUE VALUE

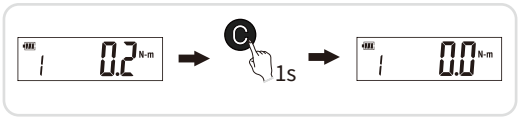


After the torque value is set, if any quick set button is pressed again, the torque value will change to the corresponding preset torque value.
If you want to use the customized torque value, you need to "**enter torque value setting mode**" again and "**save the record**".
There is no need to "**adjust the torque value**" again.

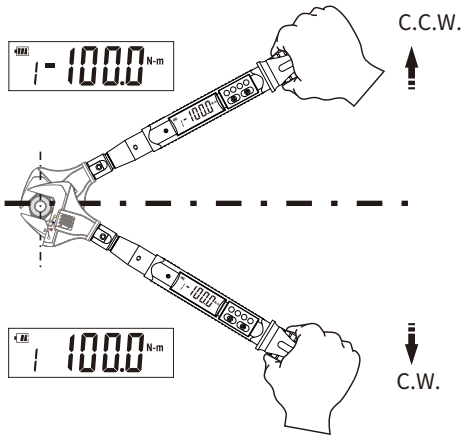
100 SETS OF HISTORICAL TORQUE VALUES



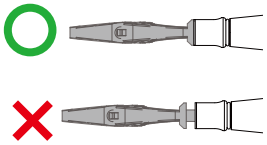
RESET



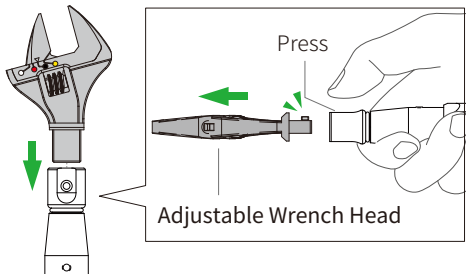
DIRECTION

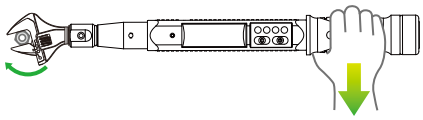


PRECAUTIONS

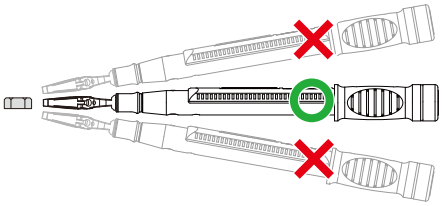


Insert Adjustable Wrench Head securely to the Torque Wrench.

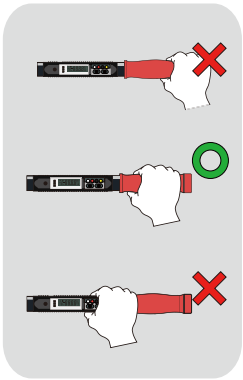




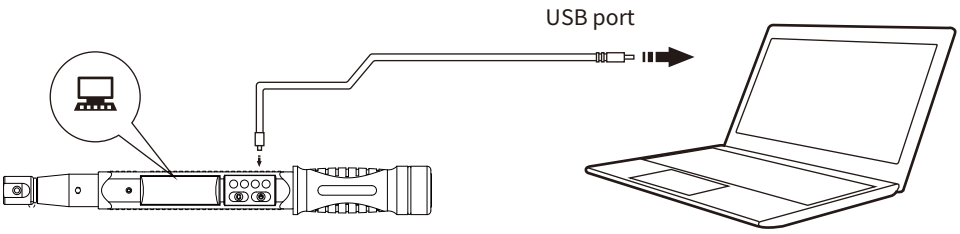
Do not continuously apply force after hearing the sound .



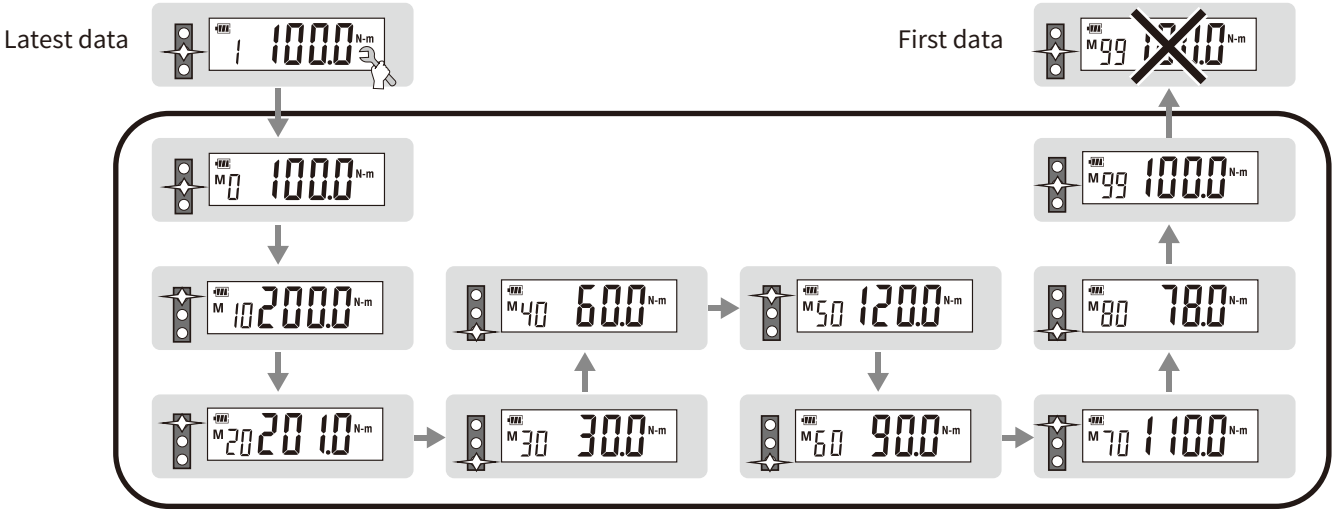
The wrench and nut should be placed horizontal to each other.



USB CONNECTION

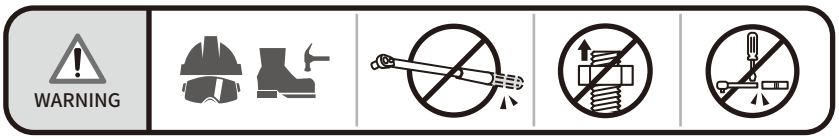


MEMORY BLOCK



MAINTENANCE AND STORAGE

1. Clean this tool by wiping with a clean cloth after operation and storage in a dry environment.
   Do not dip any type of liquid in this tool. This may damage the internal of this tool.
2. This tool should be recalibrated a period of 12 months, or 5,000 cycles, whichever occurs first.
   To contact with local vendor or an authorized repair center for supporting.

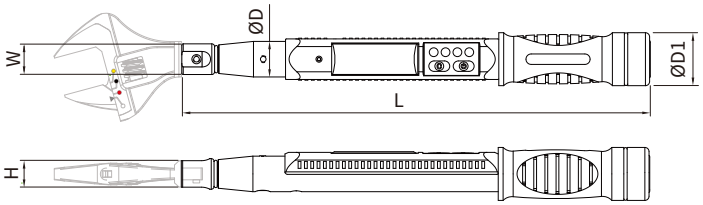


TORQUE CONVERSION FACTORS

Units to be converted	Corresponding unit								
	=mN·m	=cN·m	=N·m	=ozf·in	=lbf·in	=lbf·ft	=gf·cm	=kgf·cm (kp·cm)	=kgf·m (kp·m)
1 mN·m	1	0.1	0.001	0.142	0.009	0.0007	10.2	0.01	0.0001
1 cN·m	10	1	0.01	1.416	0.088	0.007	102	0.102	0.001
1 N·m	1000	100	1	141.6	8.851	0.738	10197	10.2	0.102
1 ozf·in	7.062	0.706	0.007	1	0.0625	0.005	72	0.072	0.0007
1 lbf·in	113	11.3	0.113	16	1	0.083	1152.1	1.152	0.0115
1 lbf·ft	1356	135.6	1.356	192	12	1	13826	13.83	0.138
1 gf·cm	0.098	0.01	0.0001	0.014	0.0009	0.00007	1	0.001	0.00001
1 kgf·cm(kp·cm)	98.07	9.807	0.098	13.89	0.868	0.072	1000	1	0.01
1 kgf·m(kp·m)	9807	980.7	9.807	1389	86.8	7.233	100000	100	1

Conversion-formula :
Units to be converted × Factor = Corresponding unit
Example : Convert 5 lbf·ft into cN·m
Solution : 5 × 135.6 = 678 cN·m

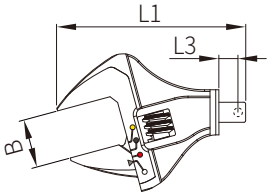
DIMENSIONS

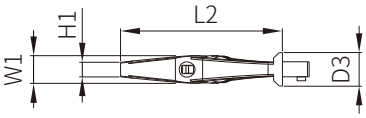


Unit : mm

ITEM NO.	■	Range	W	H	L	ØD	ØD1	KG
ACT-65NU	9 x 12	18.42.55.65 Nm	22.0	19.0	336.1	25.5	38.0	0.72
ACT-65NU	14 x 18	18.42.55.65 Nm	31.1	21.8	346.1	25.5	38.0	0.82

Unit : mm





ITEM NO.	■	W1	H1	L1	L2	L3	D3	G
AH0912	9x12	17	9	114	98	11.5	20	346
AH1418	14x18	17	9	122	98	15.5	20	382

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MATATAKITOYO TORQUE TOOLS
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Made in Taiwan