

OPERATING MANUAL

BRADLEY®

BRA-TWDA

DIGITAL TORQUE WRENCH

with 4 Quick Preset Torque Buttons



BRADLEY®

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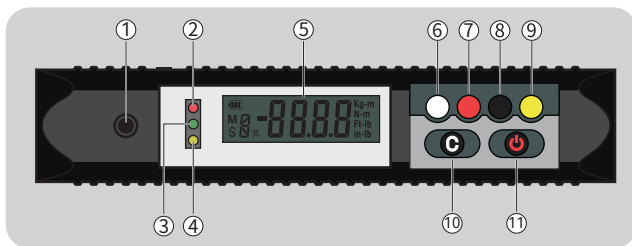
(+64) 09 283 0583
info@huddleston.nz
huddleston.nz

(+61) 08 7077 4600
info@huddleston.com.au
huddleston.com.au

BEFORE STARTING

1. Before operating this torque wrench, study these instructions carefully.
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



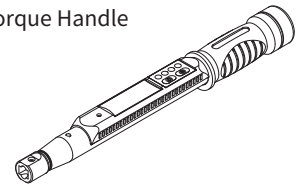
- | | |
|--------------------------|----------------------|
| ① Buzzer | ⑦ Quick set (Up) |
| ② LED indicator (Red) | ⑧ Quick set (Down) |
| ③ LED indicator (Green) | ⑨ Quick set (Memory) |
| ④ LED indicator (Yellow) | ⑩ Cancel |
| ⑤ LCD panel | ⑪ Power |
| ⑥ Quick set (Set) | |



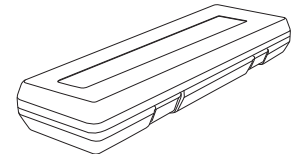
- Battery
- M** Memo
- S** Setting
- Direction
- Values
- N-m** Units

CONTENTS

Torque Handle



Adjustable Wrench Head



Supplied in a plastic box.



Manual

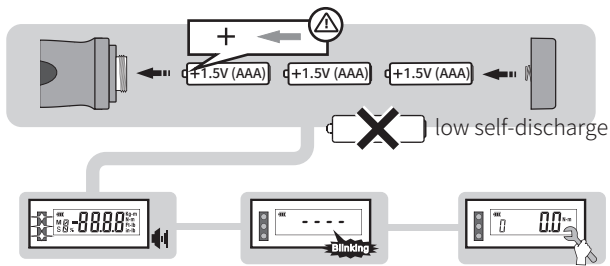
TORQUE PRE-SET VALUE

Button				
TORQUE PRE-SET VALUE	54Nm	36Nm	25Nm	10Nm

SPECIFICATIONS

- | | |
|---|---|
| • Accuracy : C.W. $\pm 1\%$ / C.C.W. $\pm 1.5\%$ | • Storage Temperature : $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ |
| • Memory : 100 Readings | • Humidity : 0~90% |
| • Unit : N-m | • Battery : 1.5V (AAA) x 3 (Do not use low self-discharge battery) |
| • Operating Temperature : $-10^{\circ}\text{C} \sim 55^{\circ}\text{C}$ | • Warranty : 1 year in normal statement. |

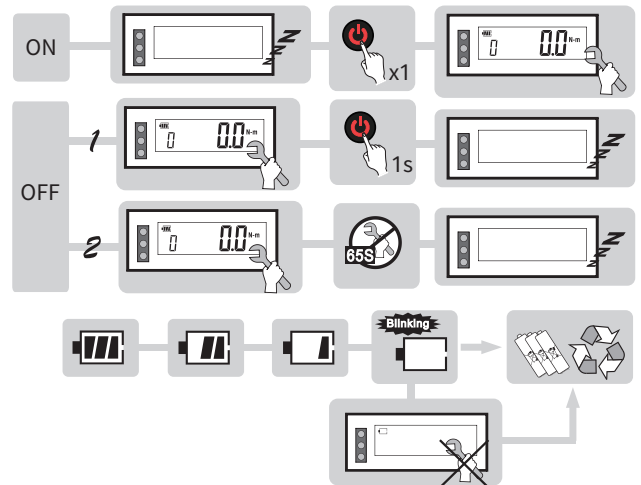
BATTERY INSTALLATION



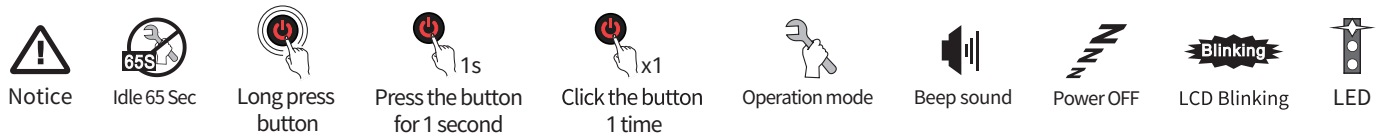
BATTERY MAINTENANCE

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.

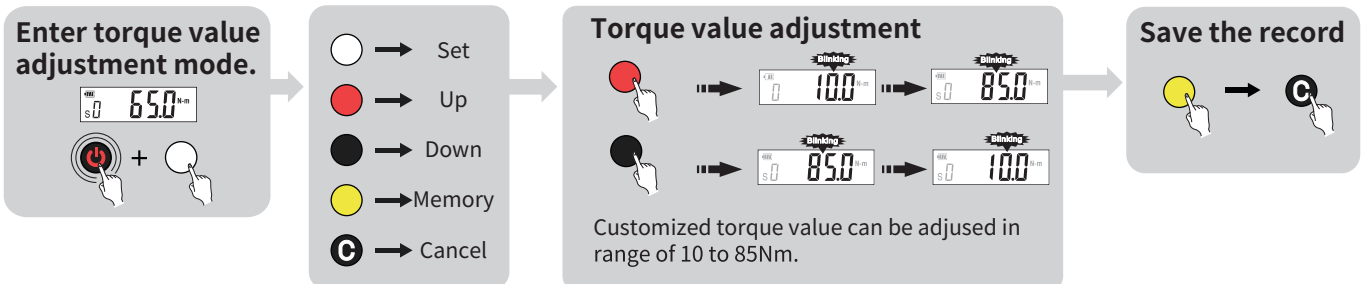
POWER



STATUS ICON DESCRIPTION

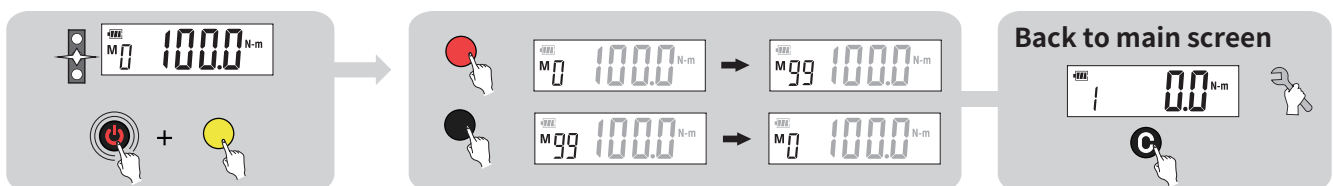


EDIT TORQUE VALUE

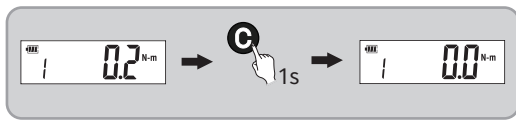


After the torque value is set, if any quick set button is pressed again, the torque value will change to the corresponding preset torque value.
If you want to use the customized torque value, you need to "enter torque value setting mode" again and "save the record".
There is no need to "adjust the torque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

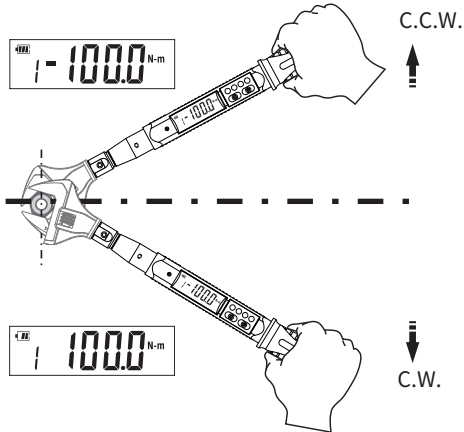
100 SETS OF HISTORICAL TORQUE VALUES



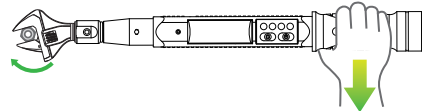
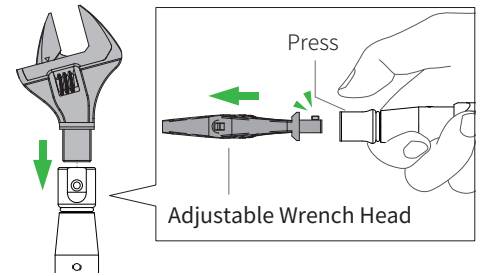
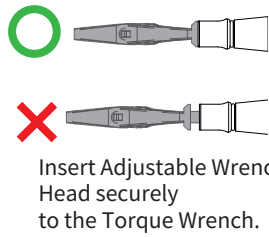
RESET



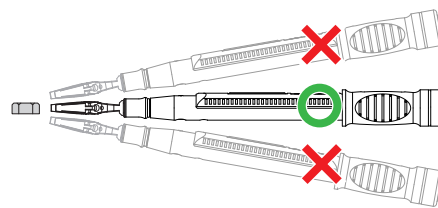
DIRECTION



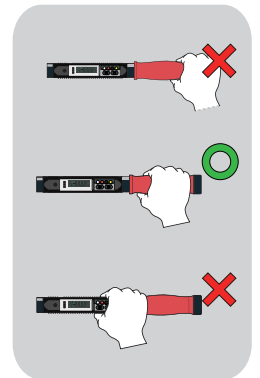
PRECAUTIONS



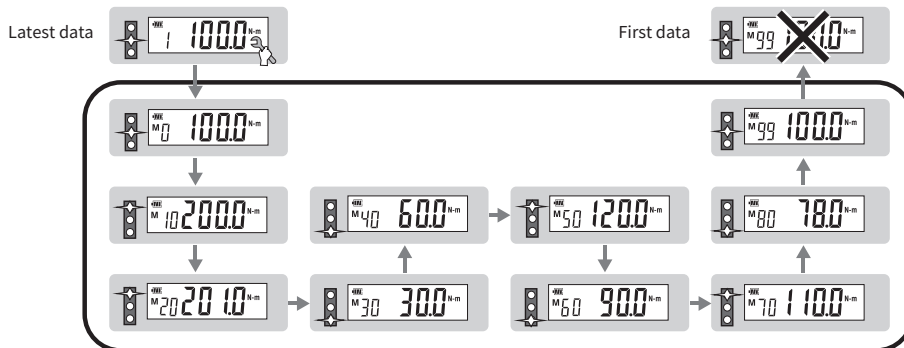
Do not continuously apply force after hearing the sound .



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

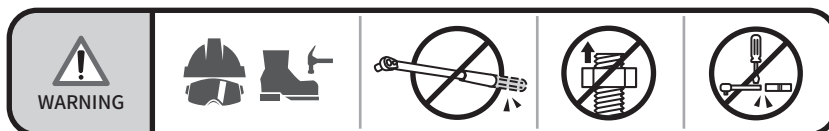


MEMORY BLOCK



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 every 12 months or every 5,000 cycles, whichever occurs first. To arrange support, please contact your local vendor or an authorised repair center.



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

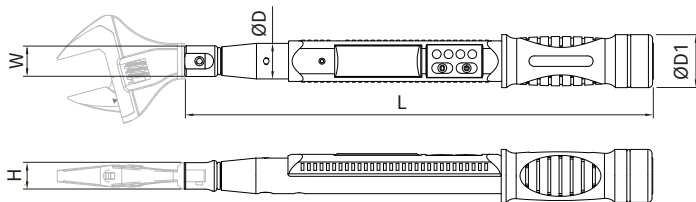
Conversion-formula :

Units to be converted × Factor = Corresponding unit

Example : Convert 5 lbf·ft into cN·m

Solution : 5 × 135.6 = 678 cN·m

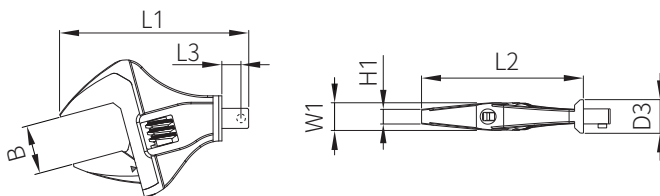
DIMENSIONS



Unit : mm

	Range	W	H	L	ØD	ØD1	KG
9 x 12	18.42.55.65 Nm	22.0	19.0	336.1	25.5	38.0	0.72

Unit : mm



	W1	H1	L1	L2	L3	D3	G
9x12	17	9	114	98	11.5	20	346

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