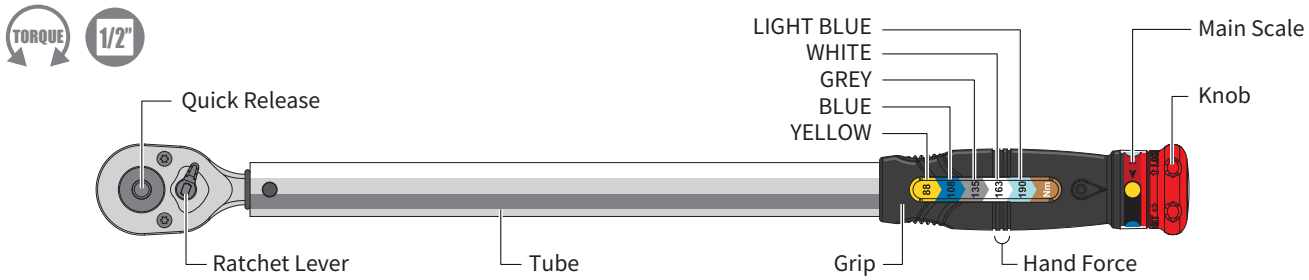
MATATAKITOYO TORQUE TOOLS

Adjustable Torque Wrench
Multi Pre-Set Type
OPERATION MANUAL

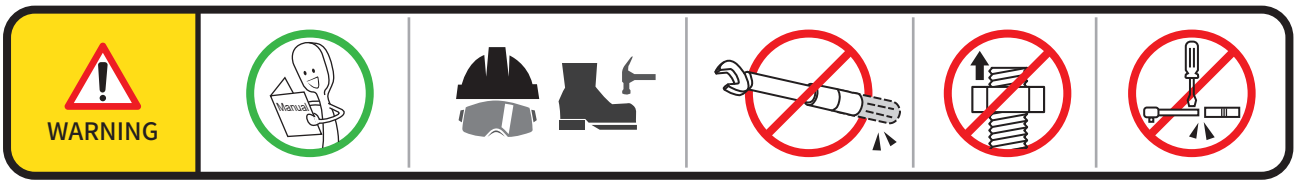
Models covered

OBT2



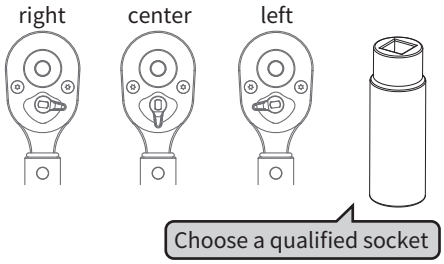
BEFORE STARTING

1. Study this instruction before use.
2. This torque wrench is calibrated and tested before leaving the factory, it is certified to meet the current standard specification and has an accuracy of C.W. ±4% / C.C.W. ±6%.
3. **THIS TOOL IS A PRECISION MEASUREMENT AND DESIGNED FOR MANUAL TIGHTENING FASTENERS ONLY. DO NOT USE IT AS A NUT BREAKER OR FOR ANY OTHER PURPOSE.**
4. Do not over torquing the fastener, or it will cause tool's damage and serious injury.
5. Do not use this tool near rotating machinery.
6. Disassemble this tool or make any adjustments will result in the loss of accuracy and invalidating the warranty.
7. Do not continuously apply force after hearing the clicking sound or feel shock.
8. Do not use any kind of extension on the handle of the tool. This will not only damage the tool, also affect the accuracy.
9. Do not immerse grease inside ratchet head. It may cause unexpected damage.
10. Use special care at minimum torque setting.
11. Please wear gloves and goggles when working.



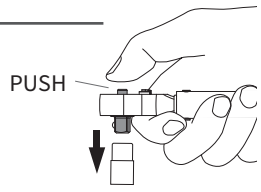
HOW TO USE

Position of ratchet lever for clockwise/counter-clockwise tightening.

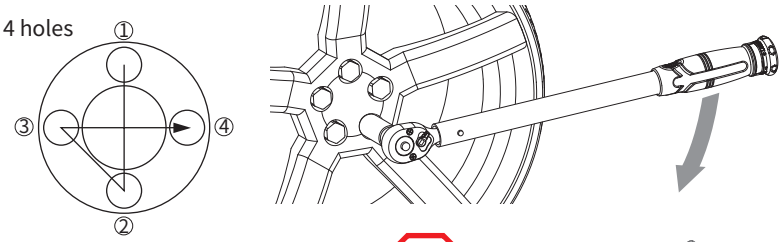


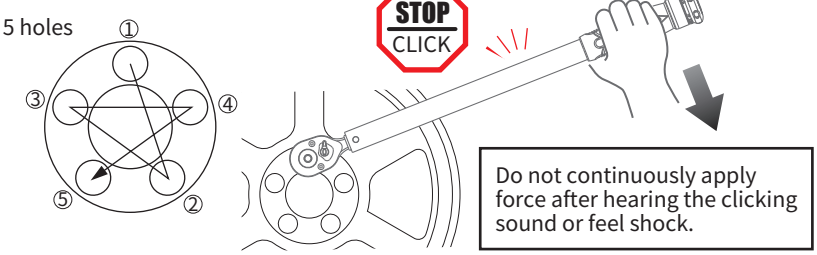
Insert square drive securely to the socket.

Quick release button design.
Push the button to release socket.



After all the nuts are installed, use a torque wrench to tighten the screws one by one in the order.





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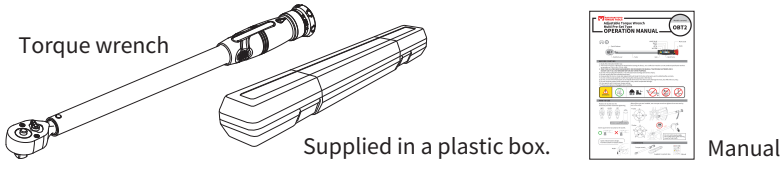
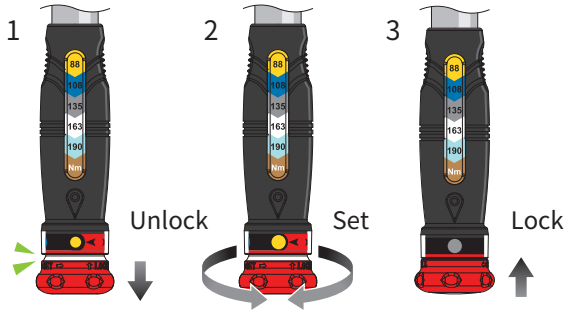
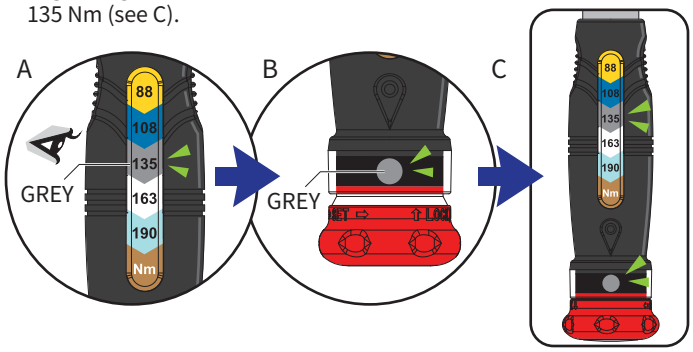


HOW TO SET TORQUE VALUE

1. Pull the knob to unlocked.
2. Turn the knob clockwise or counter-clockwise (Right or left) to set the desired torque.
3. Push the knob to set finished.

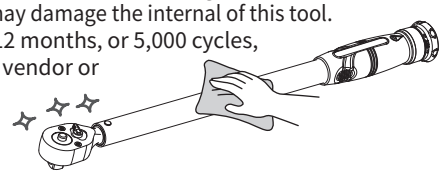


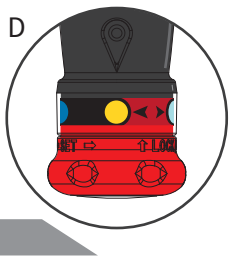
For example : ITEM NO. OBT2-190N，To set torque to 135 Nm. Pull the knob, rotate the required value 135 Nm/GREY (see A) to align the grey dot of the handle (see B), that is, the torque value 135 Nm (see C).



MAINTENANCE AND STORAGE

1. Please return torque value to the lowest reading when not in use.(see D) Do not turn below the lowest reading.
2. If this tool has not been used for a period of time, it shall be preloaded several times at its maximum torque setting. This will allow internal lubricant to recoat.
3. 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.
4. 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.



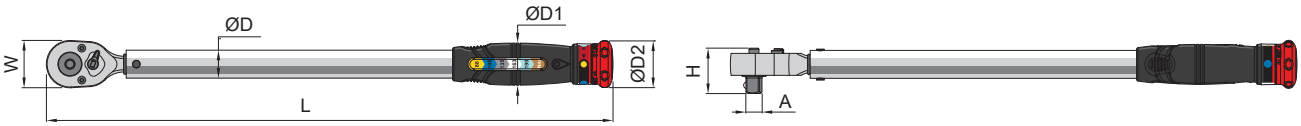


TORQUE CONVERSION FACTORS

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

SPECIFICATION



Accuracy : C.W. ±4% / C.C.W. ±6%

ITEM NO.	A	SET Nm (ft.lb)	Color	W	H	L	ØD	ØD1	ØD2	KG
OBT2-190N (OBT2-140F)	1/2"	88 Nm (65 ft.lb)	YELLOW	43.0	41.2	515.6	25.4	38.3	43.8	1.43
		108 Nm (80 ft.lb)	BLUE							
		135 Nm (100 ft.lb)	GREY							
		163 Nm (120 ft.lb)	WHITE							
		190 Nm (140 ft.lb)	LIGHT BLUE							

Unit : mm

Version 03
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MATATAKITOYO TORQUE TOOLS
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