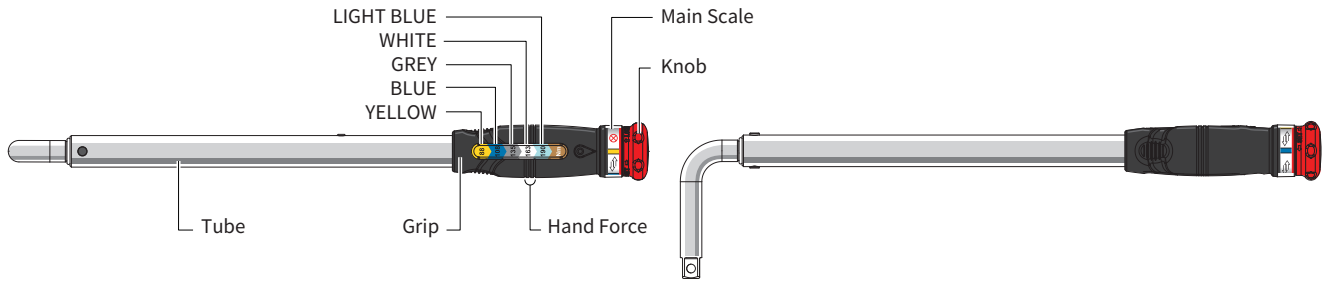
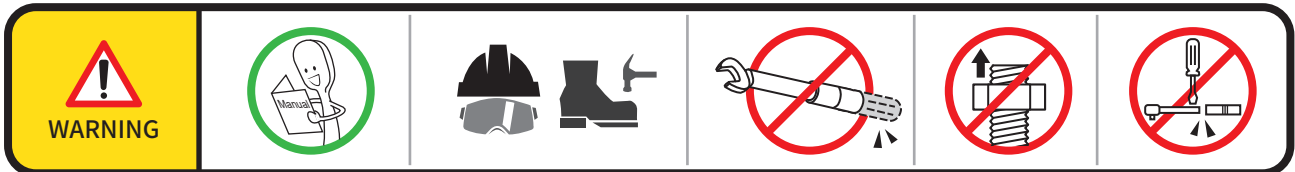


L-Shaped Adjustable Torque Wrench Multi Pre-Set Type OPERATION MANUAL



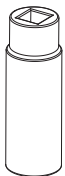
BEFORE STARTING

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. $\pm 4\%$.
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.

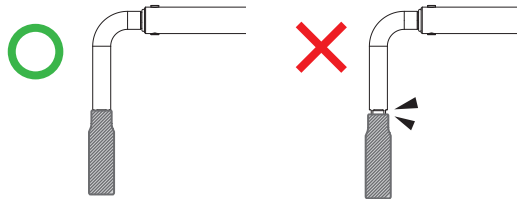


HOW TO USE

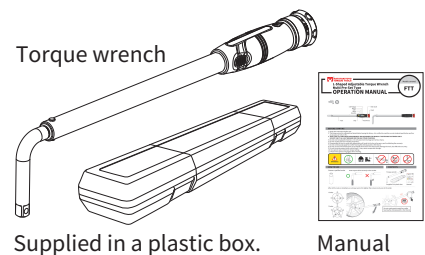
Choose a qualified socket



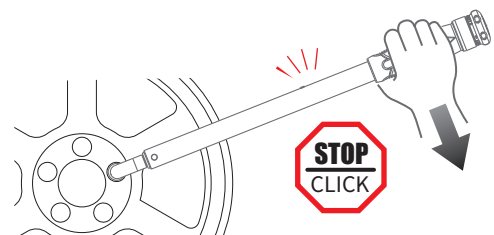
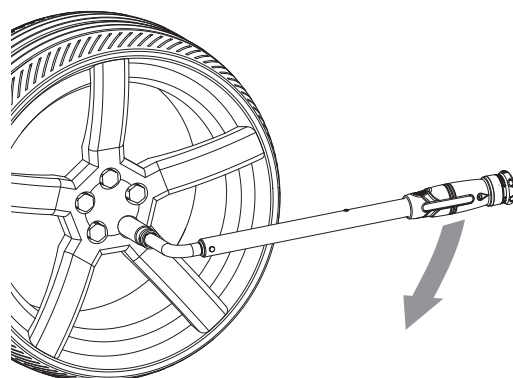
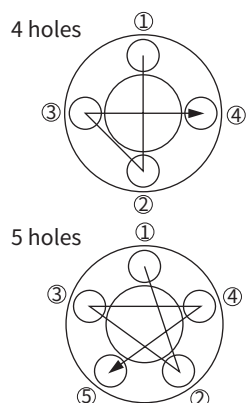
Insert square drive securely to the socket.



CONTENTS



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

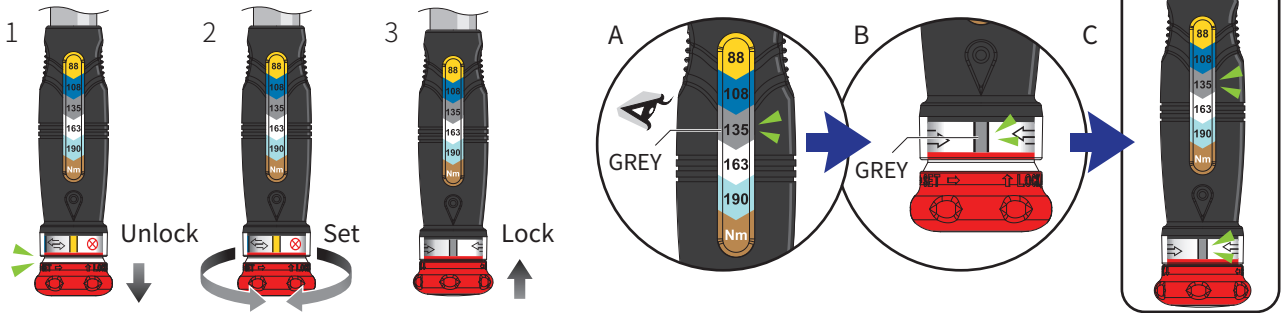


Do not continuously apply force after hearing the clicking sound or feel shock.

HOW TO SET TORQUE VALUE

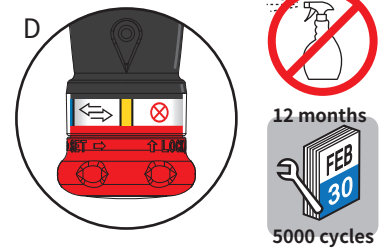
1. Pull the knob to unlocked.
2. Turn the adjustable knob clockwise or counter-clockwise (Right or left) to set the desired torque.
3. Push the knob to set finished.

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



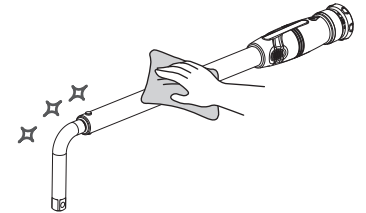
MAINTENANCE AND STORAGE

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.



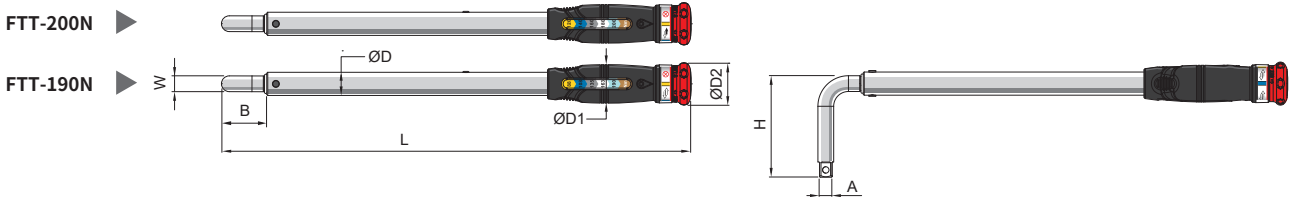
TORQUE CONVERSION FACTORS

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%

A	SET Nm (ft.lb)		Color	W	H	B	L	ØD	ØD1	ØD2	KG
	FTT-190N (140F)	FTT-200N (148F)									
1/2"	88 Nm (65 ft.lb)	120 Nm (89 ft.lb)	YELLOW	16	103	46	476.9	23.5	39.1	42.3	1.30
	108 Nm (80 ft.lb)	140 Nm (103 ft.lb)	BLUE								
	135 Nm (100 ft.lb)	160 Nm (118 ft.lb)	GREY								
	163 Nm (120 ft.lb)	180 Nm (133 ft.lb)	WHITE								
	190 Nm (140 ft.lb)	200 Nm (148 ft.lb)	LIGHT BLUE								

Unit : mm

Version 01

Nov. 2023



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Made in Taiwan