



TORQUE WRENCH 1/2", 20-200 NM

Manual

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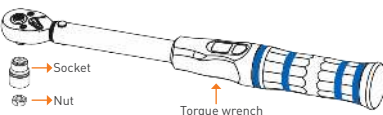
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ATTENTION

Before you start to use the torque wrench, please read the manual carefully, any questions please contact us. Improper use of the torque wrench may result in safety accidents and damage to the torque wrench.

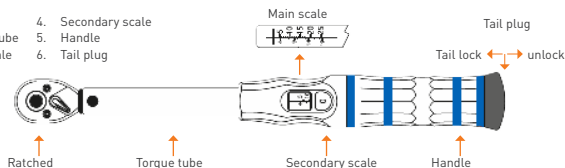
1. SELECTION GUIDE

Select the appropriate type of torque wrench and socket according to the torque value required for the bolt or nut being tightened.



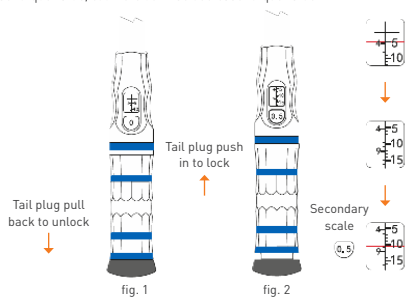
2. MAIN ACCESSORIES

1. Ratchet
2. Torque tube
3. Main scale
4. Secondary scale
5. Handle
6. Tail plug



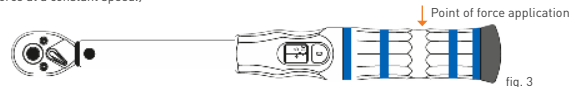
3. TORQUE ADJUSTMENT INSTRUCTIONS (10.5 N ADJUSTMENT METHOD)

1. Tail plug pull back to unlock [fig. 1]
2. Initial state is 5 N
3. Turn the handle clockwise until the main scale is aligned to 10 N. [fig. 2]
4. Turn the handle again and the secondary scale rotates to 0.5. [fig. 2]
5. The secondary scale is in the middle of the window, push in the tail plug and lock the handle, torque adjustment is complete.
6. 10.5 N adjustment is complete. Main scale value + secondary scale value = set value.
7. Clockwise increase torque value, counterclockwise decrease torque value



4. OPERATING INSTRUCTIONS

1. Adjust to the desired torque value.
2. Choose the correct socket.
3. Try to ensure 90 degrees to apply force during use. [fig. 3]
4. Uniform force during use, do not inertial force, so as not to damage the wrench and bolt.
5. Stop applying force when you hear a clicking sound, indicating that the torque value has been reached, do not continue to apply force. [Note: the size of the torque determines the loudness of the „click“ sound, During the use of small torque, the “click” sound will not be obvious and there will be an obvious slip, during the tightening process, be sure to apply force at a constant speed.]



5. PRECAUTIONS FOR USING TORQUE WRENCH

1. Before using the torque wrench, first confirm whether the torque wrench is selected correctly or not.
2. After selecting the correct torque wrench, adjust the torque to the appropriate torque value.
3. In order to ensure the accuracy of the torque wrench, it is necessary to re-calibrate the torque wrench after one year or 5000 times use.
4. Please read the manual carefully before using the torque wrench.
5. If the torque wrench is not used for a long time, it is necessary to adjust the torque wrench to the minimum torque value. To prevent long-term compression of the spring, in case of affecting the accuracy of the torque wrench.
6. Do not use a torque wrench to strike objects.
7. The range of the torque wrench, do not rotate beyond the range, the internal screw structure will be damaged.

6. TORQUE CONVERSION TABLE

	lb-in	lb-ft	N-m	Kg-cm	kg-m
1 lb-in	1	0.083	0.113	1.519	0.0115
1 lb-ft	12	1	1.256	16.024	0.1382
1 N-m	8.858	0.738	1	10.2	0.102
1 kg-cm	0.0675	0.0056	0.0098	1	0.01
1 kg-m	86.8	7.234	9.804	100	1

7. COMMON TORQUE TABLE

Strength grade	4.6	6.8	8.8	10.9	12.9
Minimum tensile strength	392Mpa	588Mpa	784Mpa	941Mpa	1176Mpa
Bolt diameter					
M4	4	4	4	5	5
M5	5	5	6	8.4	10
M6	6	6	8	14	17
M8	21	21	25	35	41
M10	41	41	49	69	83
M12	72	72	86	120	145
M14	80	98	137	165	225
M16	98	137	206	247	353
M18	137	206	284	341	480
M20	206	296	402	569	480
M22	225	333	539	765	911
M24	314	470	686	981	1176
M27	441	637	1029	1472	1764
M30	588	882	1225	1962	2352
M33	735	1127	1470	2060	2450
M36	980	1470	1764	2453	3940