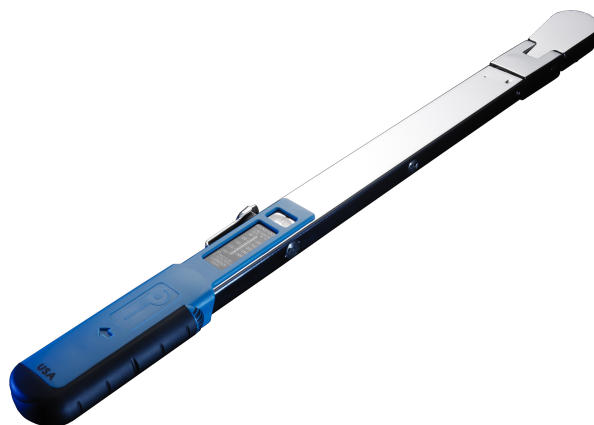


Split-beam Click Torque Wrench User Manual



Models covered by this manual

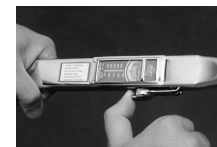
Model	Sq. Dr.	Range	Increment
C2xx14M	3/8"	2.2-14 kg.m.	1 kg.m.
C2xx50F	3/8"	10-50 lb.ft.	1 lb.ft.
C2xx68N	3/8"	14-68 N.m.	2 N.m.
C2xx100F	3/8"	20-100 lb.ft.	2 lb.ft.
C2xx130N	3/8"	25-135 N.m.	5 N.m.
C3xx34M	1/2"	7-34 kg.m.	1 kg.m.
C3xx250F	1/2"	40-250 lb.ft.	5 lb.ft.
C3xx350N	1/2"	60-350 N.m.	5 N.m.
C4D80M *	3/4"	26-80 kg.m.	10 kg.m.
C4D400F *	3/4"	130-400 lb.ft.	10 lb.ft.
C4D600F *	3/4"	200-600 lb.ft.	10 lb.ft.
C4D800N *	3/4"	160-800 N.m.	20 N.m.

* These models also available with 1" square drive (i.e."C5...")

The above wrenches are accurate to within 4% of the setting from 20% of full scale to full scale. **

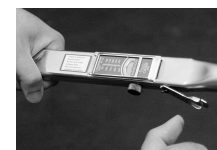
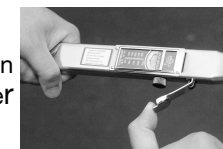
Instructions for Use

1. Follow the guide to the right to unlock, set, and lock the tool for use.
2. For C4 & C5 models, see instructions on page four for instructions on proper orientation and assembly of the tool.
3. Make sure that the socket is fully seated on the square drive.
4. Apply torque to the fastener in a controlled and gradually increasing manner to maximize the accuracy of the tool. Do not "snap torque."
5. The tool will produce an audible "click" signal when the tool reaches the set torque. You will also feel a slight impulse in the handle as the torque mechanism releases.
6. Reset the tool by completely releasing the torque from the tool. The tool cannot be used again until the torque is completely released!
7. When finished using the tool, be sure to store it in a dry environment. Subjecting the tool to adverse environmental conditions can cause corrosion that may be detrimental to the tool's performance.



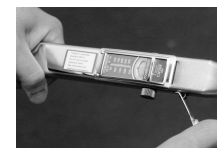
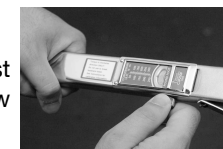
Hold the wrench by the ratchet end in your left hand

Use your thumb to open the lock lever



The lock lever will spring open against the handle

Use your right hand to adjust torque setting in the window



Close lock lever with right index finger

The lock lever will spring closed against the adjustment knob



Safety Warnings and Precautions

- Do not exceed the rated capacity of the wrench, doing so can damage the wrench or cause injury to you or bystanders.
- Always wear safety glasses when using the tool. During use the tool can generate tremendous forces that can cause the forceful ejection of debris from the workpiece in the case of wrench or workpiece failure.
- Ratchets, sockets, and fasteners can fail unexpectedly during the application of torque. Always make sure to position yourself, your hands, and workpieces to ensure that you will not hurt yourself or someone else in the case of an accidental failure of a component. Do not "lean into" the tool when applying torque since a failure can result in you losing your balance and falling into the workpiece.
- Make sure the fastener is securely seated in the socket and that the socket is securely seated on the torque wrench's square drive before applying torque.
- On flex-head models, do not force the ratchet past the stops of the clevis head. Doing so can damage the ratchet and cause failure.
- Torque wrenches require periodic calibration to ensure proper performance and accuracy. Inquire with your Precision Instruments representative about calibration options.
- Do not use the tool to pry, break tight fasteners loose, or in any other way that is not an intended use.
- Pay special attention to the condition of the ratchet. Ratchets that are worn and slip or skip teeth can cause injury during use.

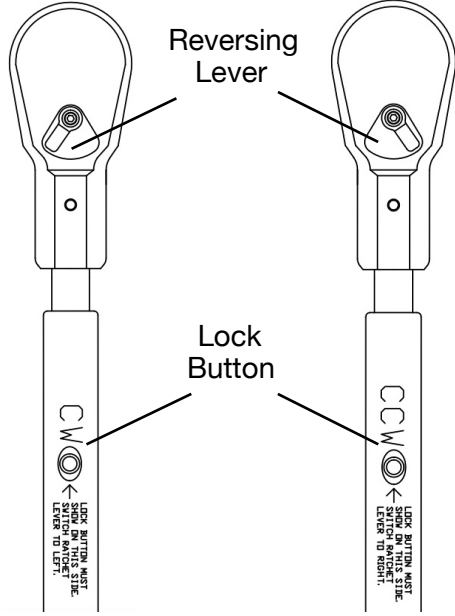
C4D... / C5D... CW/CCW Ratchet Configuration Guide

CW Config.

- Reversing Lever Left
- Lock Button in "CW" Hole

CCW Config.

- Reversing Lever Right
- Lock Button in "CCW" Hole



To Change Location of Lock Button: Push lock button in and rotate ratchet head until button locks in opposite hole.



Hands together pushing at center of hand grip



Hands not together pushing on torque body (Accuracy-Related)

** The C4 & C5 series orientation of this torque wrench will affect the operation. The torque wrench is calibrated in a "neutral" position (weight of the wrench does not add to or subtract from the torque). In this orientation, the accuracy will be within ±4% of setting. When used in any other orientation, the accuracy will be within ±5% of full scale.

Precision Instruments, Inc. Sales (toll free): 866-TWRENCH (866-897-3624)
1846 Miner Street P.O. Box 1367 Des Plaines, IL 60017
E-mail us at: sales@torqwrench.com Fax: 847-824-7629
Visit us at: www.torqwrench.com

TORQUE PRODUCTS FULL WARRANTY
PRECISION INSTRUMENTS WARRANTS THAT PRECISION TORQUE PRODUCTS ARE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS. Precision Instruments will repair or replace these tools which fail to give satisfactory service due to defective workmanship or materials.

This warranty for Precision Instruments torque products is for 90 DAYS from the date of the original purchase. Repair or replacement shall be at the election and expense of Precision Instruments. Except where unreasonable, the product must be returned to Precision Instruments for warranty service. Precision Instruments does not provide any warranty for products subjected to abuse, neglect, lack of maintenance, use in production-related service, or use after the tool is significantly worn.

PRECISION INSTRUMENTS SHALL NOT BE LIABLE FOR ANY DAMAGE TO PROPERTY OR PERSONS OR FOR ANY DAMAGES INCURRED BY THE PURCHASER OR OTHER without limitations, lost profits, revenues, anticipated sales, business opportunities, goodwill, or interruption of business and any other injury or damage. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you and remedies. You may have other rights which vary from state to state or country.

Precision Instruments, Inc.
P.O. Box 1367
Des Plaines, IL 60017
Rev 08/02

If Your Torque Wrench Needs Repair

1. Send it to an authorized Precision Instruments Service Center, or give it to your Precision Sales representative. Do not attempt to repair it yourself.
2. If the warranty is no longer in effect, your Precision Instruments Customer Service Representative will contact you with repair charges for your approval before being repaired.
3. A series of testers are available from Precision Sales for checking the accuracy of your Torque Wrench. See your Precision Sales representative for more information.

GENERAL TORQUE SPECIFICATION CHART FOR I.F.T. METRIC FASTENERS* (When SAE Oil is used as a lubricant)		Torque: Newton Meter	
Minimum Torque Strength Mpa	Property Class	4.6	8.8
30mm	8.8	1.81	650
36mm	9.8	2.35	850
42mm	10.9	3.12	1100
48mm	12.9	4.58	1600
54mm	14.5	6.37	2200
60mm	16.7	8.91	3100
66mm	19.6	12.1	4200
72mm	22.8	16.7	5700
78mm	26.5	23.5	7800
84mm	30.8	32.4	10500
90mm	35.7	44.1	14500
96mm	41.2	59.7	19500
102mm	47.5	80.6	26000
108mm	54.7	110.0	35000
114mm	62.9	149.0	46000
120mm	72.2	202.0	60000
126mm	82.7	274.0	80000
132mm	94.5	369.0	105000
138mm	107.7	490.0	140000
144mm	122.5	640.0	185000
150mm	139.0	830.0	245000
156mm	157.3	1090.0	325000
162mm	177.6	1440.0	430000
168mm	199.9	1900.0	570000
174mm	244.8	2550.0	760000
180mm	283.4	3450.0	1000000
186mm	336.8	4650.0	1350000
192mm	406.2	6250.0	1850000
198mm	493.7	8550.0	2500000
204mm	600.3	11500.0	3350000
210mm	728.1	15500.0	4450000
216mm	878.3	20800.0	5900000
222mm	1052.0	28000.0	7850000
228mm	1251.3	37500.0	10500000
234mm	1478.2	50000.0	14000000
240mm	1734.7	65500.0	19000000
246mm	2022.9	88000.0	25500000
252mm	2444.9	117000.0	34500000
258mm	2902.8	158000.0	46500000
264mm	3508.6	212000.0	62500000
270mm	4166.4	285000.0	85000000
276mm	4989.2	385000.0	115000000
282mm	5990.0	510000.0	155000000
288mm	7182.8	665000.0	205000000
294mm	8581.6	850000.0	275000000
300mm	10200.4	1100000.0	370000000
306mm	12055.2	1480000.0	500000000
312mm	14172.0	1980000.0	670000000
318mm	16565.8	2650000.0	900000000
324mm	19262.6	3550000.0	1200000000
330mm	22288.4	4700000.0	1600000000
336mm	26668.2	6150000.0	2150000000
342mm	31436.0	8000000.0	2900000000
348mm	36627.8	10500000.0	3900000000
354mm	43288.6	13900000.0	5200000000
360mm	50564.4	18500000.0	7000000000
366mm	59510.2	24500000.0	9500000000
372mm	70282.0	32500000.0	12500000000
378mm	82944.8	43000000.0	16500000000
384mm	97652.6	57000000.0	22000000000
390mm	114560.4	75000000.0	29500000000
396mm	133824.2	100000000.0	40000000000
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444mm	393056.6	980000000.0	430000000000
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456mm	494066.2	1700000000.0	780000000000
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642mm	7995708.0	10000000000000.0	6000000000000000
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