

CERTIFICATION

This torque wrench as calibrated at the factory, is certified to meet the accuracy in specifications: ASME B107.14M-1994 and ISO 6789. Additionally all wrenches are calibrated on a torque standard traceable to the National Institute of Standards Technology (N.I.S.T).

CONVERSION TABLE

To Convert From	To	Multiply by
in. oz.	in. lb.	0.0625
in. lb.	in. oz.	16
in. lb.	ft. lb.	0.08333
in. lb.	cmkg	1.1519
in. lb.	mkg	0.011519
in. lb.	Nm	0.113
in. lb.	dNm	1.13
ft. lb.	in. lb.	12
ft. lb.	mkg	0.1382
ft. lb.	Nm	1.356
dNm	in. lb.	0.885
dNm	Nm	0.10
Nm	dNm	10
Nm	cmkg	10.2
Nm	mkg	0.102
Nm	in. lb.	8.85
Nm	ft. lb.	0.7376
cmkg	in. lb.	0.8681
cmkg	Nm	0.09807
mkg	in. lb.	86.81
mkg	ft. lb.	7.236
mkg	Nm	9.807

FOR YOUR PERMANENT FILE

WRENCH

MODEL

NUMBER _____

SERIAL

NUMBER _____

OPERATION MANUAL

**JOIN THE PROFESSIONALS
WITH YOUR NEW
ADJUSTABLE RUBBERIZED
HANDLE MICROMETER
TORQUE WRENCH**

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FORM 20-203-CDI

REV. N/C 04/03

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CALIBRATION RELIABILITY.



SAFETY MESSAGES



WARNING



Read operation manual completely before using torque instrument and store for future reference.



Wear safety goggles-both user and bystanders



- An out of calibration torque wrench can cause part or tool breakage
- Periodic re-calibration is necessary to maintain accuracy
- Do not exceed rated torque as overtorquing can cause wrench or part failure
- Do not use torque instrument to break fasteners loose



Do not use cheater extension on the handle to apply torque
Broken or slipping tools can cause injury



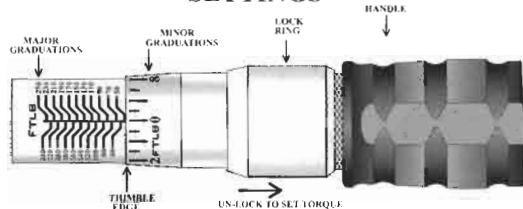
CAUTION - RATCHET HEAD

Ratchet mechanism may slip or break if dirty, mismatched or worn parts are used, or direction lever is not fully engaged.
Ratchets that slip or break can cause injury.

MAINTENANCE / SERVICE

1. The torque wrench's internal mechanism is permanently lubricated during assembly. **Do not attempt to lubricate the internal mechanism.**
2. Clean torque wrench by wiping. **Do not immerse.**
3. Store torque wrench in protective case at its lowest torque setting. **Do not force handle below lowest setting.**

ADJUSTMENTS OF TORQUE SETTINGS



A To unlock handle hold tube and pull lock ring back allowing handle to turn CW or CCW.

B. Set wrench to desired torque as follows:

EXAMPLE - 64 ft. lbs.

1. Keep slight rearward pull on lock-ring during all adjustments.
2. Line up thimble edge with the "60" graduation cross line and zero with vertical line. Wrench is now set at 60 ft. lbs. (See Figure I)
3. Turn handle and set thimble graduation to "4" on vertical line. Wrench is now set at 64 ft. lbs. (See Figure II)

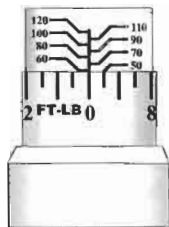


Figure I

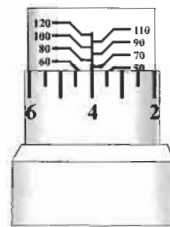
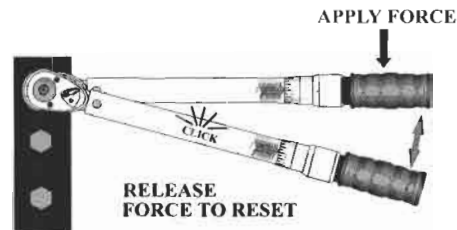


Figure II

4. Lock handle by releasing back pressure on lock-ring until it clicks and handle doesn't turn.
5. To torque fastener, keep hand centered on the grip handle. Apply a slow steady force in the desired direction until a click/impulse is heard or felt. Stop pulling and allow the wrench to reset.



USE OF EXTENSIONS & ADAPTERS

When using an extension or adapter (increasing the effective length of the torque wrench) the output torque value will change. To calculate the new torque output of the wrench use the following formula:

$$TW = \frac{TA \times L}{L + A}$$

TA = Torque exerted @ end of adapter

L = Distance between square drive and hand position

TW = Wrench scale reading

A = Length of adapter or extension



A number of variables including the length of the adapter or extension, length of the wrench and variations in hand position on the wrench will affect the accuracy of the above calculation.