



655 EISENHOWER DRIVE  
OWATONNA, MN 55060-0995 USA  
PHONE: (507) 455-7000  
TECH. SERV.: (800) 533-6127  
FAX: (800) 955-8329  
ORDER ENTRY: (800) 533-6127  
FAX: (800) 283-8665  
INTERNATIONAL SALES: (507) 455-7223  
FAX: (507) 455-7063

Form No. 558557

## Operating Instructions for:

7380

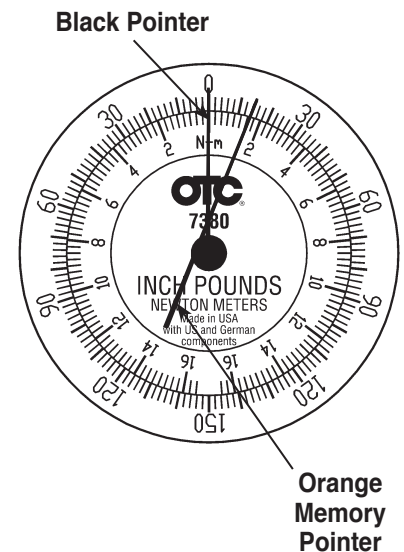
# Dial Torque Wrench



**CAUTION :** To prevent personal injury, wear eye protection that meets ANSI Z87.1 and OSHA standards.

## Basic Operating Instructions

1. Turn the bezel until the black pointer is resting on zero.
2. Attach a socket or attachment to the square drive.
3. Place the socket or attachment over the fastener to be torqued. The torque wrench handle must be perpendicular (90 degrees) to the centerline of the drive, socket and fastener.
4. Load the torque wrench at a slow and steady rate until the black pointer indicates the desired torque.
5. Stop applying force. The pointer should return to zero.



## CAUTION: To prevent equipment damage,

- Never use the torque wrench beyond its rated capacity. Maximum torque capacity is reached when the black pointer rotates 180 degrees from zero. Exceeding the maximum torque capacity damages the wrench and voids warranty. If the pointer does not return to zero after a torque application, it is an indication that the wrench was overloaded.
- Load the torque wrench to near maximum torque capacity before starting, or when changing directions, to remove residual energy that may be present from a previous torque application.
- Threads on bolts, nuts, and other mating components must be clean, smooth, and lubricated to obtain accurate and consistent torque readings.
- Follow the manufacturer's recommended procedures for tightening fasteners. Never torque a fastener that is already tightened. First loosen the fastener; then torque it to the desired value.
- Never use the torque wrench as a nut breaker.

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Sheet No. 1 of 2

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The Memory Feature

1. Turn the bezel until the orange memory pointer comes to a stop against the black pointer. *Note: Reverse bezel direction for counterclockwise torques.*
  - Clockwise torque with 3/8 inch and smaller drive wrenches: Turn the bezel counterclockwise.
  - Clockwise torque with 1/2 inch and larger drive wrenches: Turn the bezel clockwise.
2. Continue turning the bezel until the orange memory pointer is at zero.
3. Place the socket or attachment over the fastener to be torqued. Ensure the alignment is perpendicular (90 degrees) to the handle and centerline of the drive, socket and fastener.
4. Load the torque wrench at a slow and steady rate until the black pointer indicates the desired torque. The black pointer should push the orange memory pointer toward the desired torque. If the black pointer moves away from the orange memory pointer, the bezel was rotated in the wrong direction.
5. Stop applying force. The black pointer should return to zero.
6. Reset the memory pointer by turning the reset knob, located in the center of the bezel, until the memory pointer stops against the black pointer.

Conversion of Torque Units

Use the chart to convert units of torque. *Note: Units may be represented in various forms, such as Kgf.cm, which is equivalent to CM-KG.*

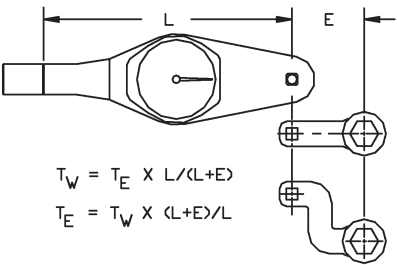
Multiply	By	To Obtain
FT-LBS	12	IN-LBS
CM-KG	0.8679	IN-LBS
IN-LBS	0.0833	FT-LBS
IN-LBS	1.1522	CM-KG

Certification

This torque wrench is certified to have been calibrated prior to shipment for accuracy of ± 4% in both directions on readings from 20% to 100% of capacity. On readings below 20% of capacity, the accuracy is ± one scale increment.

Using Attachments

Attachments used with the torque wrench alter the effective lever length (L) of the wrench, which in turn changes the amount of torque applied. Use the following formulas to calculate torque adjustments.



TW = Torque reading on wrench  
TE = Torque applied to fastener by extension

Note:

- Do not use universal joints and universal sockets due to the complexity of determining the error.
- Socket extension bars that are in-line with the square drive do not cause error and need no adjustments.

Maintenance

- Clean the torque wrench by wiping it with a soft cloth. Do not immerse the torque wrench in liquid.
- Store the torque wrench in its protective case.
- Periodic accuracy checks and calibrations are required. An out-of-calibration torque wrench can cause part or tool breakage. A calibration should be performed at least once a year, or every 5,000 torque application cycles, whichever comes first. Recalibration is also recommended after any abnormal handling.
- Should the torque wrench require repair service, contact your nearest OTC-authorized torque wrench repair center, and provide them with date of purchase information. If the wrench is determined to be in warranty, it will be repaired or replaced at no charge and returned freight prepaid. If the unit is determined to be out of warranty, it will be repaired for a nominal service charge plus return freight.

## One Year Limited Warranty

Effective 2-17-97

**This product, and all parts making up this product, with the exceptions noted below or otherwise stated under a separate warranty, are warranted against defects in materials and workmanship for a period of one year from date of purchase.**

**This warranty is expressly limited to the original retail purchaser of the product or part for use in the ordinary course of the buyer's business.**

This warranty does not cover any product or part that has been abused, worn out, contaminated, rusted, heated, ground, or otherwise altered, damaged due to side loading, used for a purpose other than for which it was intended, or used in a manner inconsistent with any instructions regarding its use.

Chains, batteries, electric motors, knives, and cutter blades, which are sold with OTC products, are not covered under this warranty. Electric motors are separately warranted by manufacturers under conditions stated in their warranties.

THIS WARRANTY IS EXCLUSIVE OF THIS PRODUCT, AND OTC MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, WITH RESPECT TO THE PRODUCTS MANUFACTURED OR SOLD BY IT, WHETHER AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER. No agent, employee, or representative of OTC has any authority to bind OTC to any affirmation, representation, or warranty concerning OTC products or parts, except as stated herein.

To qualify for warranty consideration, return the OTC product, freight prepaid, to an OTC authorized hydraulic service center. If any product or part, manufactured or distributed by OTC, is found to be defective by OTC, in its sole judgment, OTC will, at its option, either repair or replace such defective product or part, and return it via best ground transportation, freight prepaid.

THIS SHALL BE THE EXCLUSIVE REMEDY AVAILABLE FOR ANY DEFECTS IN THE PRODUCTS OR PARTS MANUFACTURED OR SOLD BY OTC, OR FOR DAMAGES RESULTING FROM ANY OTHER CAUSE WHATSOEVER, INCLUDING, WITHOUT LIMITATION, OTC'S NEGLIGENCE. OTC SHALL NOT, IN ANY EVENT, BE LIABLE TO ANY BUYER FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, WHETHER FOR DEFECTIVE OR NON-CONFORMING GOODS, NEGLIGENCE, ON THE BASIS OF STRICT LIABILITY, OR FOR ANY OTHER REASON.

The purpose of this exclusive remedy shall be to provide the buyer with repair or replacement of products or parts, manufactured or distributed by OTC, found to be defective in materials or workmanship, or negligently manufactured. This exclusive remedy shall not be deemed to have failed its essential purpose so long as OTC is willing and able to repair or replace said defective products or parts in the prescribed manner.

### Repair Service

Should your torque wrench require repair service, contact your nearest OTC authorized torque wrench repair center, and provide them with the date of purchase information. If the unit is determined to be in warranty, it will be repaired or replaced at no charge and returned freight prepaid.

If the unit is determined to be out of warranty, it will be repaired for a nominal service charge plus return freight.