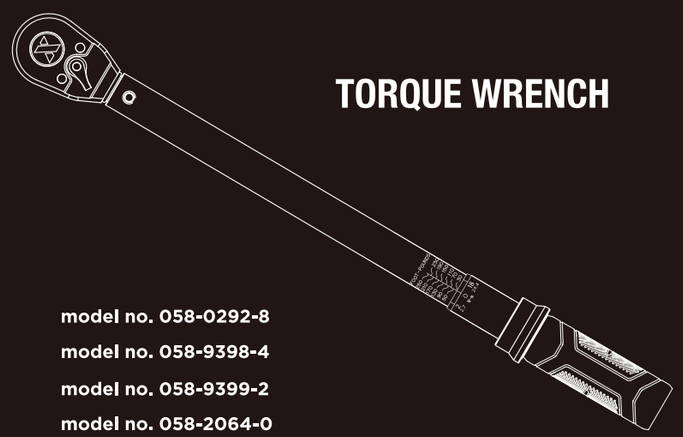
MAXIMUM™



TORQUE WRENCH

model no. 058-0292-8

model no. 058-9398-4

model no. 058-9399-2

model no. 058-2064-0

IMPORTANT:
Please read this manual carefully before using using this Maximum® Torque Wrench.

INSTRUCTION MANUAL

HOW TO APPLY TORQUE

- This torque wrench is designed so that when force is properly applied to the hand grip, an audible signal and/or impulse feel will indicate that the desired torque has been attained. **DO NOT pull beyond this point.**

  CAUTION: The audible signal or impulse feel is an indicator that the proper torque has been attained. Over-torquing beyond these signals could cause fastener failure.

  Additionally, when the wrench is set at the low end of the torque range, the degree of signal and impulse will be less than when set at the high end of the range. Therefore, care must be taken at the low end of the scale to hear the signal or the feel impulse.

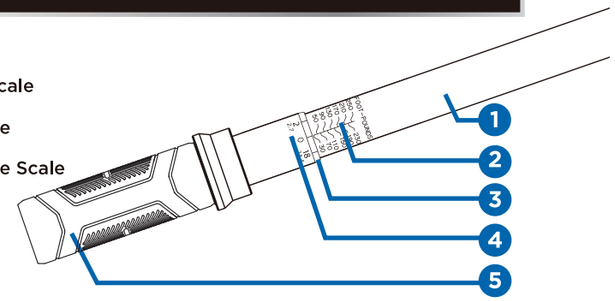
- To properly apply torque, attach a socket securely on the torque wrench square drive and position the socket on the fastener so that tilting will not occur. Grasp the centre of the hand grip and apply a slow, steadily increasing force perpendicular (90 degrees) to the torque wrench body and perpendicular (90 degrees) to the centre line of the square drive, socket, and fastener.

- Turn the fastener down with a smooth and even force applied to the handle of the torque wrench. As turning resistance increases pull more slowly. To ensure accuracy, the fastener must be in motion when the torque measurement is made.

  WARNING: Any change from the above procedure will result in a change of torque being applied. This includes standard torque wrenches, flex head torque wrenches, universal joints, and universal sockets. **DO NOT USE** universal joints or universal sockets due to the complexity of determining the associated error. If you need angular access, use a flex head torque wrench.

OPERATING INSTRUCTIONS

1. Shaft
2. Main Scale
3. Thimble
4. Thimble Scale
5. Grip



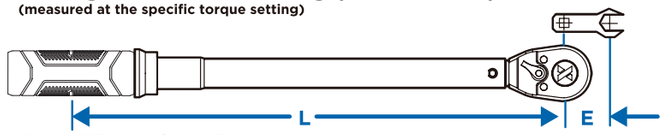
EXTENSIONS

When it is necessary to use an extension that changes the effective lever length of the torque wrench, torque being applied will change. Compute adjustments as follows:

TW = Torque set on wrench

TE = Torque applied by the extension to the fastener

L = Length from center of hand grip to center of square drive
(measured at the specific torque setting)



TW = (TE X L) / (L + E)

TE = (TW X (L + E)) / L

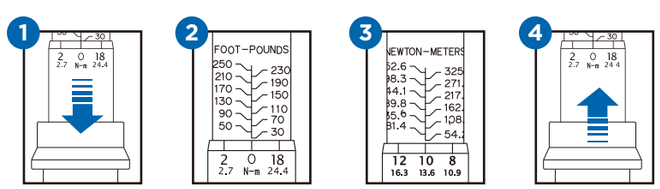
NOTICE: Socket extension bars that are axially in line with the square drive do not cause error and need no adjustment.

OPERATING INSTRUCTIONS

ADJUSTING YOUR TORQUE WRENCH

CAUTION: Do not turn the GRIP with the LOCKING COLLAR in the lock position. Damage to the adjusting mechanism may occur.

1. To UNLOCK, hold the handle GRIP in one hand and pull down the LOCKING COLLAR.
2. Rotate the GRIP until “0” on the THIMBLE SCALE reaches the primary number of the desired torque value on the SHAFT MAIN SCALE.
3. Continue rotating the GRIP if the desired torque value is between the primary numbers on the MAIN SCALE. Add the secondary number on the THIMBLE SCALE to the primary number on the MAIN SCALE to achieve the desired torque value.
4. To lock the wrench, release the LOCKING COLLAR.



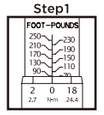
OPERATING INSTRUCTIONS

EXAMPLES OF TORQUE SETTINGS

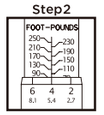
NOTE: Many models have both American Standard and Metric Scales on the same wrench. The Main Scale American Standard graduations are on the front of the SHAFT and the Thimble Scale graduations are closest to the beveled edge. The Main Scale Metric graduations are on the reverse side of the shaft and the Thimble Scale Metric graduations are below the American Standard graduations

EXAMPLE - STANDARD For a torque setting of 94 foot-pounds.
Step1: rotate GRIP until the “0” on the THIMBLE SCALE is aligned with the “90” on the FOOT-POUNDS MAIN SCALE.
Step2: continue rotating GRIP clockwise until the “4” on the THIMBLE SCALE is aligned with the centre line on the FOOT-POUNDS MAIN SCALE. The wrench is now set at 94 foot-pounds. Release the LOCKING COLLAR to lock in place before using.

Step1



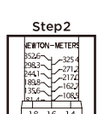
Step2



EXAMPLE - METRIC For a torque setting of 103.1 Newton-metres. rotate GRIP until the “0” on the Step1: rotate GRIP until the “0” on the THIMBLE SCALE is aligned with the “81.4” on the “NEWTON-METRES” MAIN SCALE.
Step2: continue rotating GRIP clockwise until the “21.7” on the Metric THIMBLE SCALE is aligned with the centre line of the “NEWTON-METRES” MAIN SCALE. The wrench is now set at 103.1 Newton -metres (81.4 + 21.7 = 103.1). Release the LOCKING COLLAR to lock in place before using.

Step1

Step2



WARRANTY INFORMATION

CERTIFICATION

This torque wrench was calibrated prior to shipment from the factory within tolerance limits of +/- 3% clockwise (right-handed) accuracy of upper 80% of range.

The wrench should be re-calibrated periodically. The calibration of the wrench should be checked after any abnormal handling, or overloading, or after 5,000 cycles.

LIMITED WARRANTY

This MAXIMUM product carries a one-year warranty against defects in workmanship and materials. This product is not guaranteed against wear or breakage due to misuse and/or abuse.

STORAGE

When stored or not in use, the wrench should be set to 20% of the maximum capacity (40 in-lbs for 1/4" drive, 50 in-lbs for 3/8" drive, 20 ft-lbs for 3/8" drive, 50 ft-lbs for 1/2" drive).

SAVE THESE INSTRUCTIONS

This manual contains important operating instructions. Read all instructions and follow them with use of this product.

MADE IN CHINA
IMPORTED BY
MAXIMUM CANADA TORONTO, CANADA M4S 2B8