



Demi Torque Wrench II

PN 6460626
 Made in Taiwan
 Specifications subject to
 change without notice.

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The revamped Demi Torque Wrench II is designed for left-hand or right-hand thread 3-15Nm torque settings required for critical components such as handlebars, stems, and controls. The new design features an integrated bit holder for storage of 8 bits on the wrench for convenience and versatility and the small overall size and low profile head are perfect for tight spaces and easy handling. The Demi Torque Wrench II is quickly set using a micrometer-style dial and simple locking mechanism. Accurate to within +/- 4 percent. Backed by Pedro's two year warranty.

General Usage

1. Holding the handle in one hand, locate the adjustment knob and pull with your second hand to unlock. See Figure 1.
2. Turn the adjustment knob clockwise to increase torque setting or counterclockwise to decrease. The micrometer scale is read by adding the primary scale and secondary scales. Figure 2 shows a setting of 5.8Nm. The primary scale reading is 5 and the secondary scale reading is 0.8.
3. Return adjustment knob to locked position to lock torque setting. Do not apply torque to wrench with knob in unlocked position.
4. Set ratchet drive for desired direction of rotation. To apply torque in clockwise direction the ratchet lever will point to the left. To switch the wrench and apply torque in counter-clockwise direction, push the ratchet lever to the right.
5. Install drive adapter and bit and/or socket onto the drive. Ensure all components are fully seated. If using a crowfoot type attachment, torque values will only be accurate with crowfoot positioned perpendicular to wrench's length. See Figure 3. If the crowfoot cannot be used in perpendicular position, use the conversion formula in Figure 4 to determine wrench setting needed to apply desired torque.
6. Ensure full positive engagement between tool and fastener/component.
7. Tighten fastener to desired torque by smoothly applying pressure to the torque wrench handle. Force from your hand should be centered on the handle as indicated by three grooves. Do not apply force to any other part of the wrench. When the torque is reached, the head of the wrench will partially break free and the rest of the wrench will pivot as shown in Figure 5. Stop applying pressure. **Do not continue applying force after desired torque is reached. This may cause damage to the fastener, component, or wrench.**
8. Release pressure on wrench to reset torque mechanism for next use.
9. After use, set your wrench to the lowest setting (3Nm) for storage.

Helpful Tips

1. The Demi Torque wrench features a Nm torque scale. For other units, please refer to conversions in Table 1. An example conversion: with the wrench set to 5N-m, the torque applied would be 44.25 lb-in (5N-m x 8.8507 = 44.25 lb-in).
2. Always check and follow manufacturer's torque specifications. Also note any thread treatment such as grease, thread lock, or anti-seize which can affect torque.
3. Before first use, or after extended time between uses, set wrench to middle torque value and cycle the torque mechanism 5-10 times to redistribute factory lubricant.
4. Wrench is factory calibrated to be accurate to +/- 4% but may require recalibration after extensive use. Calibration should be completed by a professional calibration service. Pedro's does not offer calibration at this time.
5. Do not use your torque wrench to loosen fasteners or parts which were tightened without a torque wrench. This may overload the torque wrench.

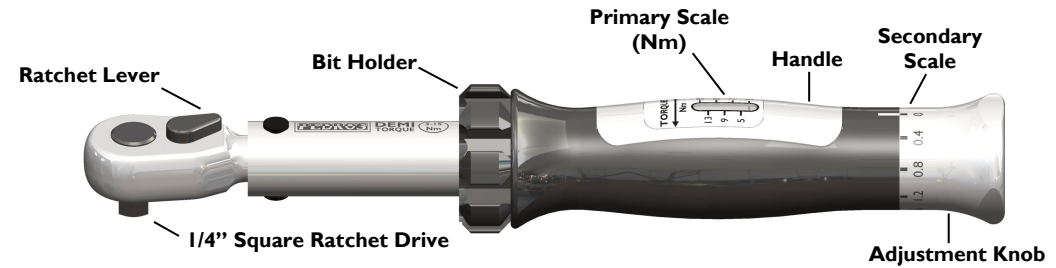


FIGURE 1

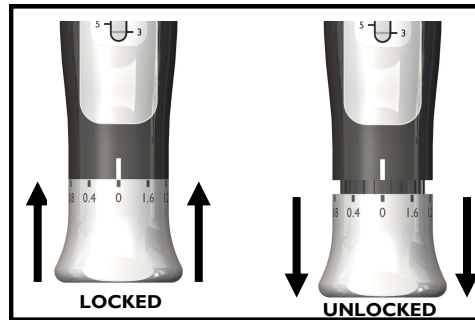


FIGURE 2

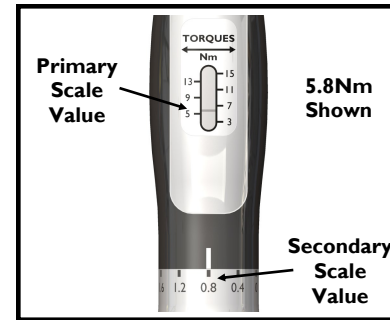


FIGURE 3

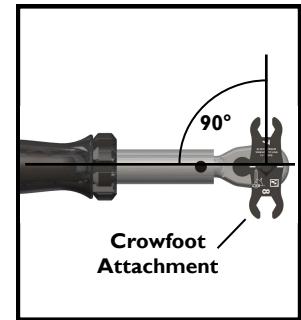


FIGURE 4

Conversion Formula
 $T1 \times L \div (L+C) = T2$

Example: to apply 5Nm to bolt for setup as shown, the wrench should be set to 4.6Nm. With crowfoot at 45°, C = 12.5mm, so:
 $5 \times 127 \div (127+12.5) = 4.55$ Set wrench to 4.6Nm.

L = effective length (127mm for Demi II) T1 = torque specification for bolt
 C = change in length in mm T2 = wrench torque setting

FIGURE 5

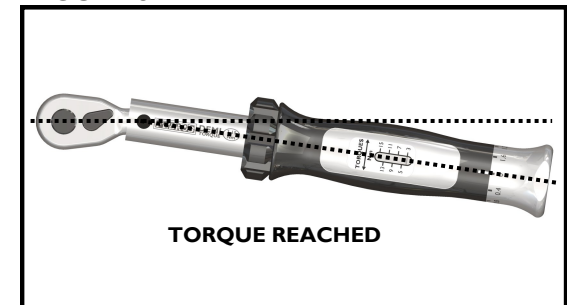


TABLE 1: Torque Unit Conversion

| Torque In: | N-m | N-m | N-m | kg-cm | kg-cm | kg-cm | lb-ft | lb-ft | lb-ft | lb-in | lb-in | lb-in |
|--------------------------|--------|--------|---------|--------|---------|---------|-------|--------|---------|---------|-------|--------|
| Multiplied By: | 8.8507 | 0.7376 | 10.1972 | 0.8681 | 0.07233 | 0.09807 | 12 | 1.3558 | 13.8255 | 0.08333 | 0.113 | 1.1521 |
| Equals Torque In: | lb-in | lb-ft | kg-cm | lb-in | lb-ft | N-m | lb-in | N-m | kg-cm | lb-ft | N-m | kg-cm |

Note: pound-inch (lb-in) and pound-foot (lb-ft) units may be referred to as inch-pounds and foot-pounds.