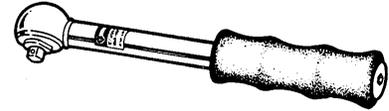


TSP (Cam-Over Wrench) Operating Instructions

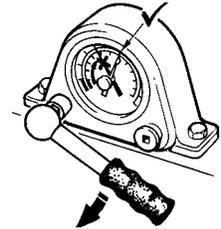
Rev 1.0

Calibrating Torque Wrenches

To calibrate torque wrenches either use a torque analyzer or torque transducer within the range of the torque wrench. For cam-over torque wrenches calibrate torque in "Peak" mode with an analyzer or transducer. Make sure to apply the torque slowly and smoothly.



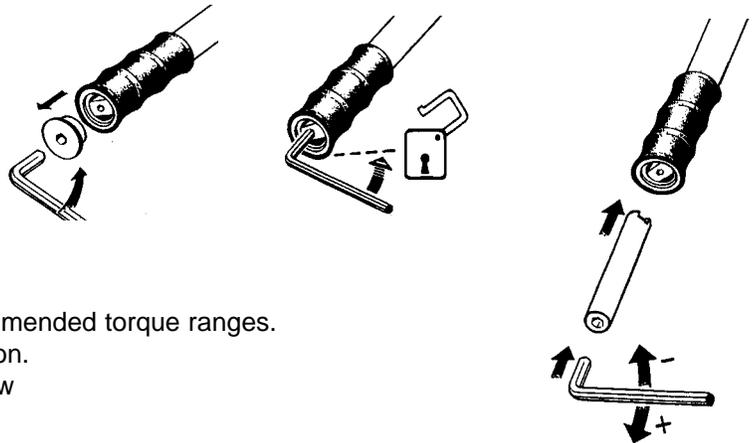
1. Select a torque analyzer or transducer that covers the torque range of the TSP wrench. Connect wrench to the torque analyzer or transducer.
2. Apply torque clockwise slowly until wrench 'slips' and note reading.
3. Adjust wrench to required torque setting as described below.
4. Test and repeat adjustment as necessary to obtain desired value.
5. Recalibrate torque wrench at prescribed intervals.



Note: Refer to ISO6789 International Standard for more information on hand tool testing requirements.

Adjusting Torque Setting

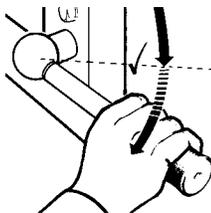
1. Remove end cap from the wrench using the larger hex key.
2. Insert smaller hex key into set screw in the middle of torque adjusting bolt inside wrench handle. Turn counter clockwise to loosen set screw, but do not remove screw.
3. Insert hex key into adjusting key and turn clockwise to increase torque and counter clockwise to decrease torque. Do not adjust torque above or below the recommended torque ranges.
4. Lock adjustment set screw* and tighten end cap back on.



*Note: - 44 lbf.in(5 N.m) torque value for the lock screw

Applying Torque

1. Tighten nut or bolt by applying a steady even pull using built in ratchet as necessary. Wrench should be kept at 90 degrees to axis of bolt during tightening. When pre-set torque is reached, the wrench will 'slip.'
2. The wrench will automatically reset itself for the next application.
3. With its unique design, it's impossible to over tighten beyond the preset load.



Accessories

Keep the production area clean by hanging the TSP wrench with a "Hanging Loop."

Hanging Loop
Item # 020587



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