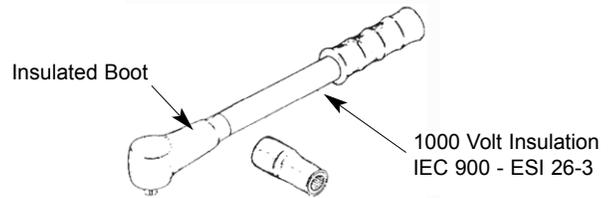


TSN Insulated Wrench Operating Instructions

Rev 1.0

TSN Insulated Wrenches

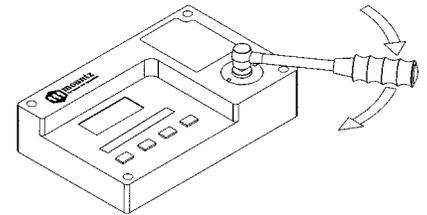
For any application which requires the tightening of fasteners under “electrically live” situations. The TSN wrench head and handle are securely insulated for protecting the operator. The TSN wrench is then preset to the customers requirements and the handle end is effectively sealed using a heat shrink end cap, hot melt adhered to the handle tube. The normal hand grip is then assembled over the heat shrink end cap providing additional protection.



Calibrating Torque Wrenches

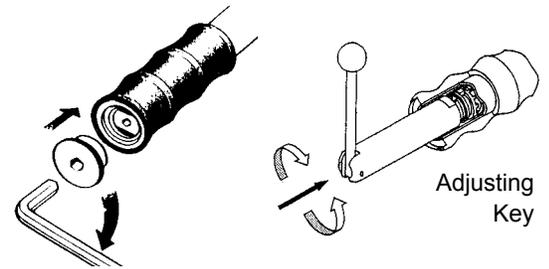
To calibrate torque wrenches either use a torque analyzer or torque transducer within the range of the torque wrench. For cam-over torque wrenches calibrate torque in “Peak” mode with an analyzer or transducer. Make sure you apply the torque slowly and smoothly.

1. Select a torque analyzer or transducer that covers the torque range of the TSN 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.
4. Test and repeat adjustment as necessary to obtain desired value.
5. Recalibrate torque wrench at prescribed intervals.



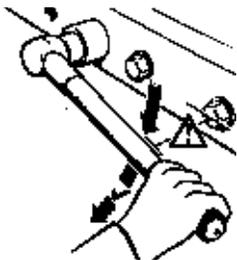
Adjusting Torque Setting

1. Remove rubber handle grip. Then remove the sealed heat shrink cap.
2. Remove end cap from wrench and insert special adjusting key.
3. The special Adjusting Key is an articulated design. When in use the two halves are set at 90°, this allows downward force to be exerted on the Sliding Lock while rotating the Adjusting Screw.
4. Turn clockwise to increase torque and counter clockwise to decrease torque. Do not adjust torque above or below the recommended torque ranges. Tighten end cap back on.
5. Then seal the end cap with heat shrink end cap (hot melt adhered to the handle tube). Then assemble rubber hand grip over the heat shrink end cap.



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.



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