

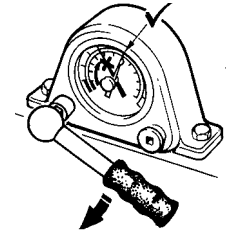
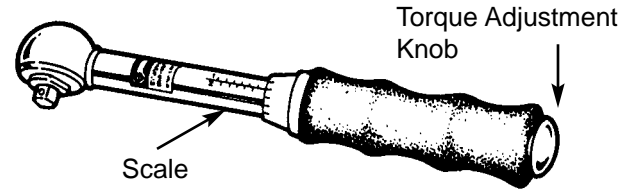
TSC (Cam-Over Wrench) Operating Instructions

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 TSC wrench. Connect wrench to the torque analyzer or transducer.
2. Using micrometer scale, set wrench to 20% full scale setting. Apply torque CW slowly until wrench 'slips' and note reading from test device.
3. Repeat step 2 for 60% and 100% tool settings (other test points can be used if desired.)
4. If readings are not within the specification tolerance, then perform calibration adjustments as described below.
5. Recalibrate torque wrench at prescribed intervals.



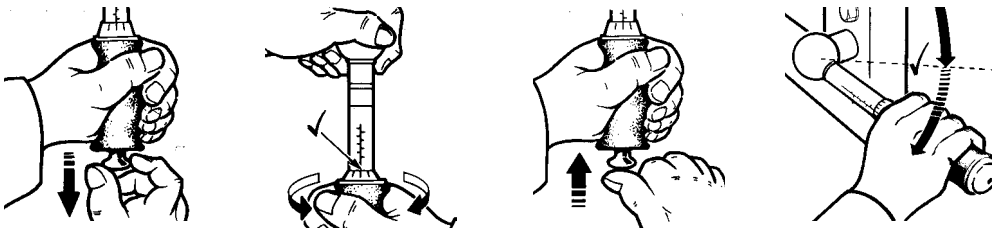
Note: Refer to ISO6789 International Standard for more information on hand tool testing requirements.

Calibration Adjustments

1. Test tool through full range. Make scale adjustments, if required, as described in steps 2 - 5. If wrench is nonlinear, contact Mountz for technical repair service.
2. Adjust tool to 20% full scale setting. Remove set screw and locking knob at end of handle
3. Peel back rubber grip and loosen 3 set screws to remove handle adjusting sleeve.
4. Turn exposed torque adjustment screw CW to increase torque and CCW to decrease torque to proper setting. Test tool on torque analyzer to ensure correct adjustment to 20% setting was made. Repeat as necessary.
5. Replace adjusting sleeve onto tool ensuring to align zero micrometer scale. Lock 3 set screws, replace locking knob and tighten set screw. Replace rubber grip.

Setting and Applying Torque

1. Set desired torque on the scale. Pull down on the "Adjustment Knob" and turn knob clockwise to increase torque and counter clockwise to decrease torque on the scale. Align the desired torque value on the micrometer scale. Release "Adjustment Knob."
2. Tighten nut or bolt by applying steady twists. Wrench should be kept at 90 degrees to axis of bolt during tightening. When pre-set torque is reached, the wrench will 'slip.'
3. The wrench will automatically reset itself for the next application.
4. With its unique cam-over design, it's impossible to over tighten beyond the preset load.



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ISO 9001