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TLS Screwdriver Operating Instructions

Rev 3.3 (3/24/2017)

Calibrating Torque Screwdrivers

To calibrate torque screwdrivers either use a torque tester or torque sensor within the range of the torque screwdriver. For torque screwdrivers calibrate torque in "Peak" mode with a torque tester or torque sensor. Make sure to apply the torque slowly and smoothly.

1. Select a torque tester or torque sensor that covers the torque range of the screwdriver. Connect screwdriver to the torque tester or torque sensor using the appropriate adapters as needed.
2. Apply torque clockwise slowly until screwdriver 'slips' and note reading.
3. Adjust screwdriver to required torque setting as described below.
4. Test and repeat adjustment as necessary to obtain desired value.
5. Recalibrate torque screwdriver at prescribed intervals.



Adjusting Torque Setting for TLS Standard (TLS0406) and TLS1360 Models

1. Remove end cap from screwdriver anti-clockwise direction. Also remove the T-bar where fitted (for TLS1360 models only)

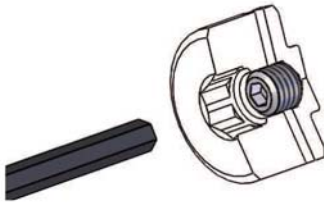
To Increase Torque Setting

1. Use a 2.0mm hexagon key to loosen the adjuster locking screw by ½ a turn. Insert the 3/16” hexagon key into the adjuster and turn Clockwise. Tighten the locking screw to 1.5N.m Using the 2.0mm hexagonal key once required torque value is reached.Turn hex key clockwise to increase torque and counter clockwise to decrease torque.



To Decrease Torque Setting

1. Use a 2.0mm hexagon key to loosen the adjuster locking screw by ½ a turn. Insert the 3/16” hexagon key into the adjuster and turn anti-clockwise below the required setting, then turn clockwise to approach the new value. Tighten the locking screw to 1.5N.m using the 2.0mm hexagonal key once required torque value is reached.

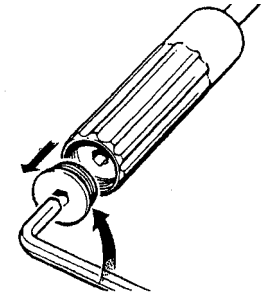


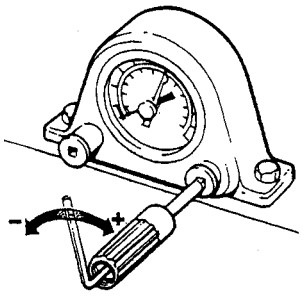
Note! Take 10 consistent readings on the Torque Analyzer to confirm the torque setting. Do not adjust torque above or below the recommended torque ranges. Tighten end-cap back on.

The 2.0mm Hexagon key and adjuster locking screw are not required on the TLS 0022 and TLS Minor (TLS0135) models.

Adjusting Torque Setting for TLS 0022 and TLS Minor (TLS0135) Models

1. Remove end cap from screwdriver anti-clockwise direction and insert hex key.
2. Turn hex key clockwise to increase torque and counter clockwise to decrease torque.

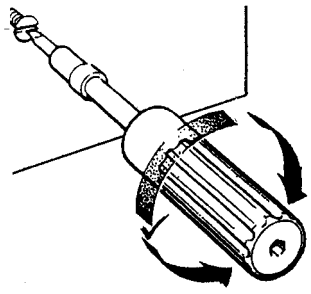




Note! Take 10 consistent readings on the Torque Analyzer to confirm the torque setting. Do not adjust torque above or below the recommended torque ranges. Tighten end-cap back on.

Applying Torque

1. Tighten nut or bolt by applying steady twists. Screwdriver should be kept at 90 degrees to axis of bolt during tightening. When pre-set torque is reached, the screwdriver will ‘slip.’
2. The screwdriver will automatically reset itself for the next application.
3. With its unique cam-over design, it’s impossible to over tighten beyond the preset load.



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Maintenance Schedule
Like an automobile, torque screwdrivers contain moving parts that require periodic servicing and lubrication.

Expected Tool Life
With normal use – 100,000 operations

Period between Resetting of Torque
5000 operations (as recommended in BS EN 26789:1994). It is acknowledged that some tools achieve 5000 operations in a relatively short period of time. Under these circumstances the user may decide, with the benefit of their experience, to increase the period between calibration checks.

Routine Maintenance
After 100,000 operations, strip, clean & re-grease the Spindle, Cam & Roller. Any worn components should be replaced.

Note: Any tool that is dismantled during its life must be re-lubricated in accordance with the Mountz recommendations. Do not clean tools by immersing them in solvent, as this will destroy the internal lubrication and cause failure of the tool.

Tool Lubrication Chart for TLS

Shell Stamina EP2 Grease
General Use Spring Housing

Testing & Servicing
Torque tools go out of calibration with use. Calibrating a torque tool is a fine-tuning process of bringing the tool back within its tolerance. Regular torque calibration of a hand screwdriver ensures accuracy, repeatable tool performance, and adherence to international standards.

We recommend a general once a year calibration interval. However, it is the user's organization that must determine suitable intervals based upon equipment performance, application, degree of usage and management objectives.

Mountz Calibration & Repair Services
Mountz Inc. features an experienced calibration and repair staff. Our trained technicians can calibrate and repair most any tool. Mountz provides rapid service with quality that you can trust as we offer two state-of-the-art calibration lab and repair facilities that can calibrate up to 20,000 lbf.ft.

Since 1965, Mountz's in-depth knowledge of torque is reflected in our tool's craftsmanship and our ability to provide solutions to both common and uncommon torque applications. We perform calibrations in accordance with ANSI/NCSL-Z540. Mountz is dedicated solely to the manufacturing, marketing and servicing of high quality torque tools.

Mountz Service Locations

Eastern Service Center
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Download a "Service Form" and include a copy when you send the tools in to be serviced.

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