

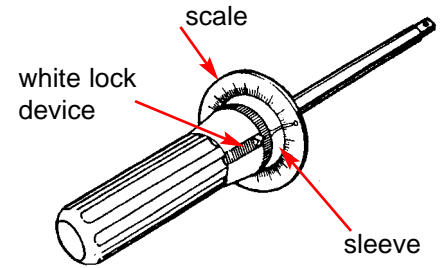
TT Dial Screwdriver Operating Instructions

Rev 3.2 (4/18/2014)

Calibrating Torque Dial Screwdrivers

To calibrate torque dial 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 TT dial screwdriver. Connect screwdriver to the torque tester or torque sensor using the appropriate adapters as needed.
2. Apply torque clockwise slowly at all major graduations and note reading.
3. Perform calibration adjustments, if needed, as described below.
4. Test and repeat adjustment as necessary to obtain specified accuracy.
5. Recalibrate torque screwdriver at prescribed intervals.



Calibration Adjustment

1. Loosen set screw on side of the handle and slide handle off the tool.
2. Loosen two slot head screws on the clamp fixture at end of tube assembly. Slide clamp fixture towards back of the tool to lower reading and towards the front of tool to raise reading.
3. Slide handle back onto tool. Insert 0.30" gap-setting gauge between handle and rotating bezel and tighten set screw on side of the handle.

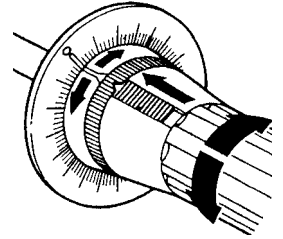
TT 250 & 500 models are supplied with a T-Bar

1. Snap T-Bar into the slot at the end of the handle.



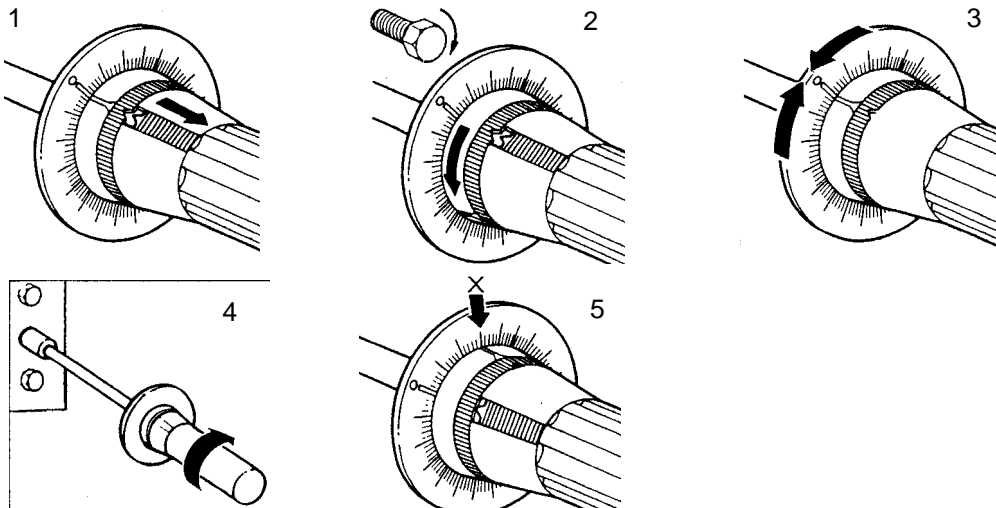
Applying Torque: "Track Mode"

1. Slide the white lock device into the "V" cut in the sleeve. Set the white arrow pointer to '0'.
2. Tighten nut or bolt by applying steady twists. Screwdriver should be kept at 90 degrees to axis of bolt during tightening.
3. The white arrow pointer will track the torque as it is applied and will return to "0" when released.



Applying Torque: "Peak Memory Mode"

1. Disengage the white lock device from the "V" cut in the sleeve, which allows the sleeve to rotate freely.
2. To test a fastener in the clockwise direction, rotate the sleeve counter clockwise until it reaches a hard stop. To test a fastener in the counter clockwise direction, rotate the sleeve clockwise until it reaches a hard stop.
3. While holding the sleeve at the 'stop' position, loosen the knob beneath the scale and turn the scale so that the pointer on the sleeve is lined up to the "0" position.
4. Apply torque to the application.
5. After torque is complete, the maximum torque can be read from the scale as indicated by the pointer.
6. Reset the sleeve manually to the 'stop' position and then apply torque again.





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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 TT

WD-40 Lubricant/Inhibitor	All Purpose 3 in 1
Torsion Bars & Spring Clamps	Memory Assembly

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.

With over 45 years of experience, 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 is an ISO 9001 certified and ISO 17025 accredited company.

Mountz Service Locations

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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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