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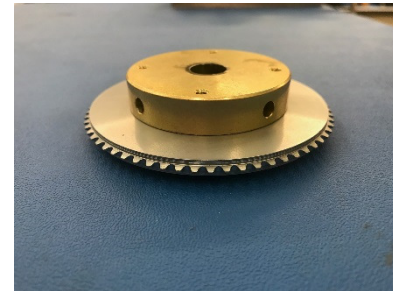
## Torqo II 1600 Loose Set Screw Troubleshooting Guide

### Manufacturer Name and Address

Mesa Laboratories Inc.  
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Lakewood, Colorado  
USA 80228  
Phone: 1-303-987-8000  
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[www.mesalabs.com](http://www.mesalabs.com)

### Equipment Needed

- Allen Wrench (1/16"), (3/32"), & (5/32")



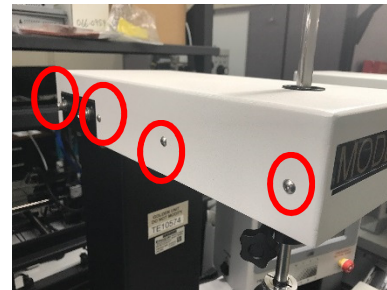
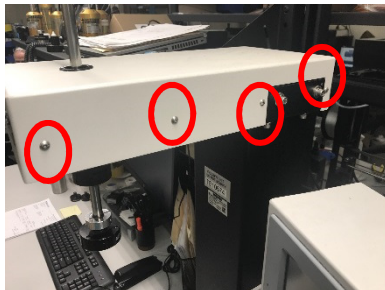
### Scope

The Torqo 1600 instruments occasionally has failures with loss of drive that is associated to loose set screws on the drive sprocket. To trouble shoot this, Mesa has developed the following procedure to rectify the problem. It is recommended to contact a Mesa Laboratories Inc. technical representative before making any adjustments to any Torqo Automatic Torque Tester.

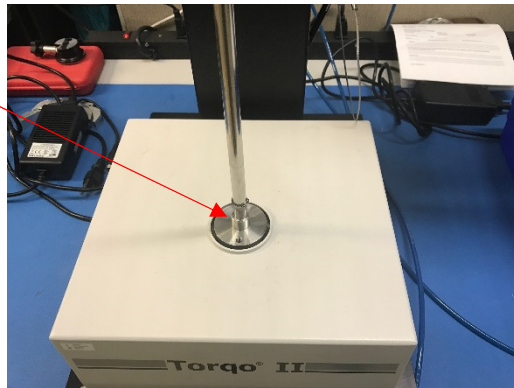
### Procedure

#### A. Removing Top from Torqo Tester

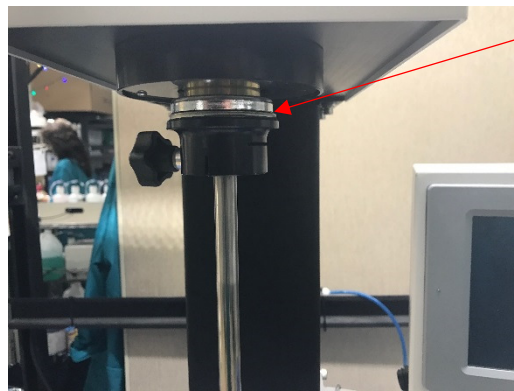
1. Turn off Torqo machine and unplug power cord
2. Remove 8 Hex screws from perimeter of top panel using 3/32" Allen wrench and set aside



3. Lower drive shaft until bottom end touches clamp base



4. Loosen thumb screw assembly and bring to top of drive shaft. This ensures that the drive shaft will not move during procedure



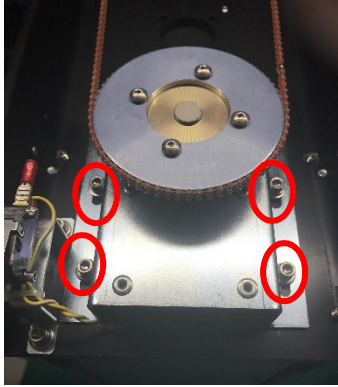
5. Remove ball from top of drive shaft and set aside



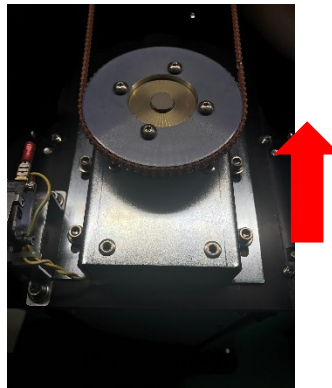
6. Remove top panel of Torqo and set aside

**B. Tightening Set Screws on Drive Sprocket**

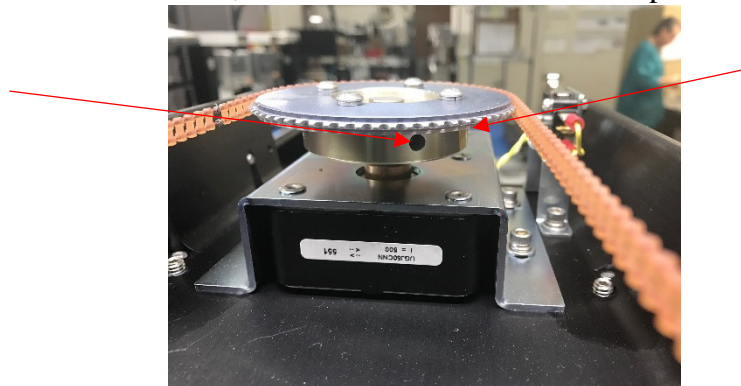
1. Loosen 4 hex screws using 5/32" Allen wrench



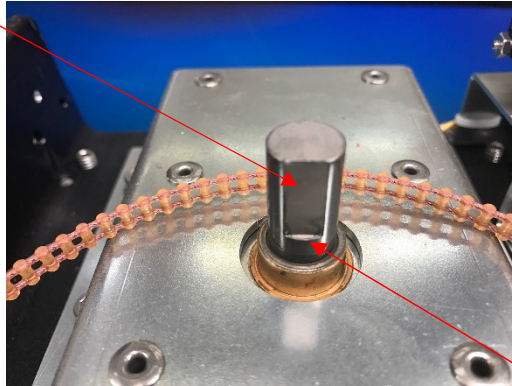
2. Gently slide sprocket assembly to loosen drive belt. This is to gain access to the locations of the set screws



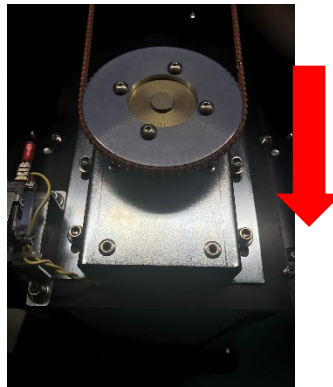
3. Using 1/16" Allen wrench, loosen set screws and remove sprocket



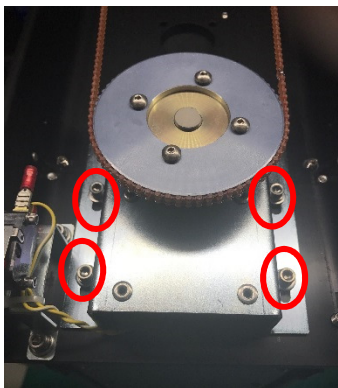
4. Align set screws with flat edge of shaft



5. Tighten set screws using 1/16" Allen wrench. Ensure set screw is aligned vertically and sits on flat shelf. This is to ensure drive belt is aligned properly with front sprocket
6. Replace belt on drive sprocket
7. Gently slide sprocket assembly back to tighten the drive belt. Should be taught with minimal slack

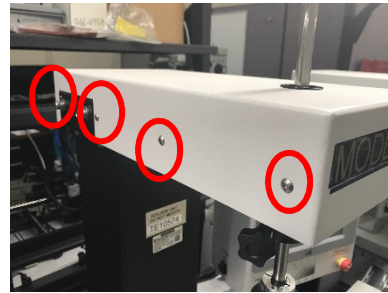


8. Tighten 4 hex screws using 5/32" Allen Wrench



### C. Replacing Top panel on to Torqo Tester

1. Replace top panel of Torqo and aligning hex screw holes
2. Replace 8 Hex screws to perimeter of top panel using 3/32" Allen wrench



3. Replace ball from top of drive shaft



4. Loosen thumb screw assembly and replace in original position on drive shaft.
5. Plug in Torqo tester to power supply and ensure proper functionality

For further information on troubleshooting procedures or to request service on your equipment by one of our service technicians, please contact [torque@mesalabs.com](mailto:torque@mesalabs.com) or dial (303) 987-8000 to speak with a representative. We look forward to continuing to serve the cap testing industry and our loyal customer base.