

Viscometer- Diaco

Maintenance

Updated 12/4/2021
Ver. 1.0



Troubleshooting and Maintenance

Troubleshooting and regular maintenance procedures are described in this section. If more extensive maintenance or service of the instrument is required, please contact your Diaco representative.

Troubleshooting

Problem or Symptom	Possible Cause	Corrective Action
Erratic dial motion	Contaminated bob shaft bearings.	Replace the bob shaft bearings
	Bent bob shaft.	Bend shaft slightly to straighten it. Contact Diaco for repair or replacement
	Rotor out of alignment	Replace the rotor if it is damaged.
Out of calibration	Contaminated bob shaft bearings.	Replace the bob shaft bearings
	Bent bob shaft.	Bend shaft slightly to straighten it. Contact Diaco for repair or replacement
	Bent rotor.	Replace the rotor.
	Damaged or incorrectly installed torsion spring	Contact Diaco for repair
	Incorrect motor speed	Replace the motor
Excessive noise	Lubrication failure or contamination in gears	Contact Diaco for repair
	Worn center thrust washer.	Contact Diaco for repair.
	Top cover not set properly	Adjust the top cover
Excessive run-out of rotor	Damaged rotor	Replace the rotor.
	Contamination in main shaft recess.	Contact Diaco for repair

Maintenance

The instrument should be serviced by qualified personnel only. If factory service is required, contact Diacoe for return authorization.

These tips are recommended for properly caring for the viscometer.

- Clean the bob and rotor after each test.
- Periodically examine the bob and rotor for dents, abrasion, or other damage.
- Always remove the bob from the bob shaft when transporting instrument to avoid bending bob shaft.
- Periodically test the bob shaft bearings. Operate the instrument at 3 rpm or 6 rpm without sample. Observe movement of the dial. It should not move more than +/- 1 division.
- Rough bob shaft bearings should be replaced.
- Oiling or greasing of the viscometer is not required in normal service