



# Sorval ST-16 Centrifuge RPM Verification Job Aid

Step	Action	
	Obtain / purchase a new certified Tachometer when calibration dating expires on tachometer in use	
1	Apply a thin strip of reflective tape supplied with laser tachometer to the centre of rotor axle; this thin strip of reflective tape is to remain in place for future speed verifications	
2	Prepare the centrifuge for normal operation; close the lid and select <b>START</b>	
3	When the centrifuge is at Maximum speed; toggle the <b>RCT xg/RPM</b> button to display <b>RPM</b> (RPM light should be on)	
4	Hold the tachometer over the window on the lid of the centrifuge and depress the triangular <b>Hold/Power</b> button; after two seconds a reading will be obtained	
5	Record the reading in the Centrifuge Maintenance Log when stabilized on the LCD display on the unit (if available); by depressing the <b>Hold</b> button the reading can be locked on the screen	
6	The reading on the tachometer should be within $\pm 10\%$ of the RPM setting displayed on centrifuge	
7	If the tachometer reading is $>10\%$ of the RPM setting, repeat the reading and if the same reading is obtained ( $>10\%$ outside the RPM setting), have the unit checked and repaired; record the reading in the Centrifuge Maintenance Log	

## Example of Centrifuge Maintenance Log Sheet

Semi-Annual – Rpm & Timer Checks (Date next due: _____)						
RPM Setting	_____ rpm $\pm 10\%$	Pass/Fail	_____ rpm $\pm 10\%$	Pass/Fail	Performed By (Initial):	Date
Tachometer Reading						
Tachometer Reading						
Timer Check Setting	_____ Minutes $\pm 5\%$	Pass/Fail	_____ Minutes $\pm 5\%$	Pass/Fail	Performed by (initial):	Date
Stopwatch reading						
Stopwatch reading						

Document RPM setting(s) and actual readings and if Pass or Fail (use additional columns as required)