

SORVALL Legend T/RT Centrifuge
Instrument Instructions
Updated November 14, 2017
Celeste Morin, x3756, Druckenmiller 243

****NOTE**--This is a high speed centrifuge that can be easily damaged. Please use with care and caution.**

1. Choose the correct rotor, centrifuge tubes, and settings for your application.
2.
 - a.
 - b. Install the rotor of choice
 - c. **If you need help installing the rotor, or have any other questions, please see Celeste or Professor Vasudevan.**
3. Once the correct rotor for your application is in place, turn Power On. The settings on the display are what were last used.
4. **Program the desired parameters:**
 - a. For swinging bucket rotors, press the bucket selection key until the correct bucket appears.
 - b. Once the power is turned on, the speed display is set. Use the speed mode selection key (up/down arrow) to switch between rpm and RCF display.
 - c. **Speed** or
 - i. For **FIXED ROTOR:**
 1. The speed limit is 6000 for 15ml tubes (set to Max. of 5000rpm)
 2. The speed limit is 9000 for 50ml tubes (set to Max. of 7500rpm)
 - ii. For **SWINGING BUCKET:**
 1. Use Max. of 3500rpm
 - d. Once the centrifuge has started, the rotor is identified and the current RCF value is displayed. The RCF set point can be adjusted in steps of 1 if necessary.
 - e. **Run Time:**
 - i. **Standard Mode:** 1 min. to 9 hours 59min
 - ii. **Extended Mode:** 1 min. to 99 hours
 - iii.

g. For extended time mode, to switch on or off, press the program
s

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h. Set **Acceleration** and **Deceleration** to 6 and 5 respectively by

i. Setting **Temperature**
by 1°C. By using the key, you can preset the temp.

5. Loading the Rotors:

- a. Make sure you are using the correct centrifuge tubes for the rotor you need. The tubes are rated for a maximum RCF value.
- b. Overloading the rotor can result in damage. Please ask if you feel you may have exceeded the maximum permissible load. If using adapters, they will add to the total weight.
- c. If maximum permissible load is exceeded, you must either reduce the sample volume or calculate the permissible speed using the following formula:
 - i. **Formula:**

- c. When run is stopped, o
You may need to manually lift the lid if it has not been fully lifted out of the lid lock.