

**CAUTION**

Be sure the rotor is properly balanced and seated on the drive spindle. See rotor instruction manual.

**WARNING**

Always check that the rotor has stopped spinning *before* opening the chamber door. Do not open the door while the rotor is still in motion; to do so can result in possible injury.

2. When the OPEN light comes on, turn the door release knob to the OPEN position, and lift the chamber door up.
3. Place the rotor on the drive spindle and lock it in place by turning the rotor locking screw counterclockwise. Turn the door release knob to the LOCKED position (the door latches will engage).
4. Set the CHAMBER TEMP°C dial to the run temperature desired.
5. Set the BRAKE switch to "⊙" if braking is desired.
6. Set the REV/MIN x 1000 dial to the desired run speed.
7. Set the TIME dial to the run time desired.

**NOTE** The settings on the REV/MIN x 1000 dial indicate approximate rotor speed. Verify it by checking the REV/MIN display.

An ON/OFF switch is incorporated in the TIME dial. This switch prevents rotation of the rotor if the door is locked and the timer is on.

At the end of the run remove the rotor as described below.

**To remove the rotor:**

1. Leave the POWER switch set to "I".
2. Set the TIME dial to the off position.
3. When the OPEN light comes on, turn the door release knob to OPEN position and lift the chamber door up.
4. Remove the rotor, close the chamber door, and set the POWER switch to "0".

**Emergency Sample Recovery****WARNING**

This procedure is included for *emergency sample recovery only* and should never be used for any purpose other than those explained in this section.

When the main power shuts off, the brake will not operate. Unplug the centrifuge power and wait until the rotor stops spinning before using the mechanical override.

If the main power shuts off because of a power failure or system malfunction while the rotor is spinning, the chamber door will not open. Visually check through door view port to verify that the rotor has stopped spinning. A mechanical override is provided to allow sample recovery in the case of an emergency.

The mechanical override loop is located under the right, front corner of the centrifuge as shown in figure 3-2. To operate the override, insert a screwdriver or similar object into the metal loop and while pulling down, turn the door release knob to the OPEN position and lift the chamber door up.

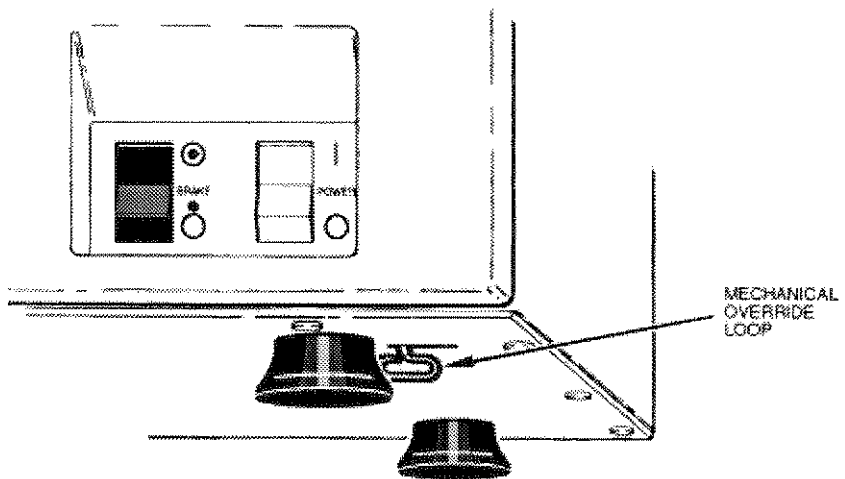


Figure 3-2. Location of Mechanical Override Loop

**NOTE** Leave a clearance area around the lower right corner of the centrifuge to prevent obstruction of the mechanical override.

## **Reducing Speed for Rotor Compartment Loads in Excess of Design Mass**

There is a maximum allowable compartment mass established for each centrifuge rotor. To prevent rotor failure, the total contents of any compartment, including buckets, specimen, tubes, cover, and adapters (if used), must not exceed the figure given on page 1-2 unless rotor speed is reduced proportionately.

Strict adherence to the maximum allowable compartment mass or reduced speed is required to prevent rotor failure. *Observe WARNING on the Safety Information Page in front of this manual.*

The rotor speed is reduced in proportion to the square of the ratio for the maximum allowable compartment mass to the actual compartment mass (including buckets, specimen, tubes, covers, and adapters). If the compartment mass is more than that specified for the rotor, the reduced speed can be determined by using the formula given below:

$$\text{Reduced Speed} = \text{Maximum Rotor Speed} \times \sqrt{\frac{\text{Maximum Compartment Mass}}{\text{Actual Compartment Mass}}}$$