The center of mass is $1/8"$ from the inner face of the larger mass.

Set the speed of the rotator at a fairly low value, lock in position, and turn off the switch. Now set the center of mass where you want it, and then turn on the switch. (Attempting to set the center of mass while the motor is running, and then increasing the speed of rotation from zero, is unsatisfactory because of vibration.)

If the center of mass is on that side of the axis of rotation on which the larger mass is located, both masses will move in the direction of the larger mass. If the center of mass is on that side of the axis on which the smaller mass is located, both masses will move in the direction of the smaller mass. If the center of mass is at the axis of rotation, the masses will rotate in equilibrium.

Do not let loose of the speed control without clamping in position.