Use a jet from which water issues at an angle of elevation of about 70° (fixed by apparatus), equipped with constant water pressure regulation. Darken the room completely and illuminate the jet with General Radio Strobolux, which is controlled by General Radio Stroboscan.

Arrange the apparatus as shown in the sketch at right, with the Strobolux about 4 ft from the water jet, directed toward the opposite corner of the room, and tilted upward to shine on the jet. Connect the jet apparatus to the water line, and turn on the water sufficiently that water flows continuously from the overflow. Connect both the Strobotac and the Strobolux to the 120 VAC line, and connect the two by the special plug-in cable provided. Set the two switches on the back of the Strobolux to "medium" and "on". Set the switch on the back of the Strobotac to "slow" and turn the dial switch on the front to "high".

With the room darkened completely except for light from the stroboscope, turn on the vibrator which pulses the water jet and causes it to break up into droplets. (See Note 1.) Adjust the frequency of the stroboscope until the water droplets appear to move forward slowly, stand still, or move backward slowly. The dial reading for which these phenomena occur will be in the neighborhood of 9.7. (See Note 2.)

Notes: (1) The proper pressure of the vibrating reed on the rubber tube supplying water to the jet is rather critical. There is an adjustment, but do not change the setting unless you are certain that it should be changed. (2) In disconnecting the apparatus, disconnect first that end of the water hose attached to the permanent water line. Allow water to drain from the apparatus before disconnecting the other end of the hose.