Spin the gyroscope (SEE WARNINGS) with the gyrospinner, allowing sufficient time for it to attain near maximum speed.

Carry the spinning gyroscope around, orienting the frame in various positions, and note that the axis of spin remains fixed in space.

With the inner (red) frame in a horizontal plane, and the gyroscope spinning rapidly: (1) Place the same weight on this frame by inserting the pin on the weight into the hole in the frame. Note the precession. (2) Replace the small weight with the larger (by a factor of about three) weight, and note the change in the velocity of precession. (3) Shift the larger weight to the other side of the frame and note that the direction of precession changes. (4) Note that the velocity of precession increases as the velocity of the spinning wheel decreases. (5) Correlating the relative directions of spin, torque and precession can be done much more clearly by using the bicycle wheel (MN-2). However, if it is not done with the bicycle wheel it should be done here.

WARNINGS: (1) Spin the gyroscope only with the motor gyrospinner, never by hand, holding the inner frame steady while the wheel is being brought up to speed. (2) Be careful not to depress the pin near the rotating end of the gyrospinner; depressing the pin locks the shaft of the motor.