INSTRUCTIONS:
(1) All electrical connections have been made for you. Do not change any wires.
(2) Turn "on" the two meters and the current power supply.
(3) Perform the experiment.
(4) Turn "off" the two meters and the current power supply, unless another student is waiting. THE OSCILLOSCOPE MUST BE LEFT ON ALL THE TIME.

HINTS:
(a) To obtain "zero" beam deflection, turn off the current power supply or adjust the current power supply to "zero". Also adjust the plate voltage control knob (marked on the oscilloscope) to "zero" voltage. The "zero" deflection position will NOT be at the center of the screen. All spot deflections must be measured from this position.
(b) To determine the current through the coils, read the current on the meter attached to the power supply. This meter should be wired as a milliamp meter and set to the 2000 ma scale. This meter measures milliamps.
(c) The plate voltage is read on the meter wired to the face of the oscilloscope. This meter should be set to the 200 VDC scale. The meter measures volts.

NOTES:
(A) $V_v$ and $I_o$ are the vertical plate voltage and the magnetic field coil current when the two effects cancel each other.