

1. Preparation

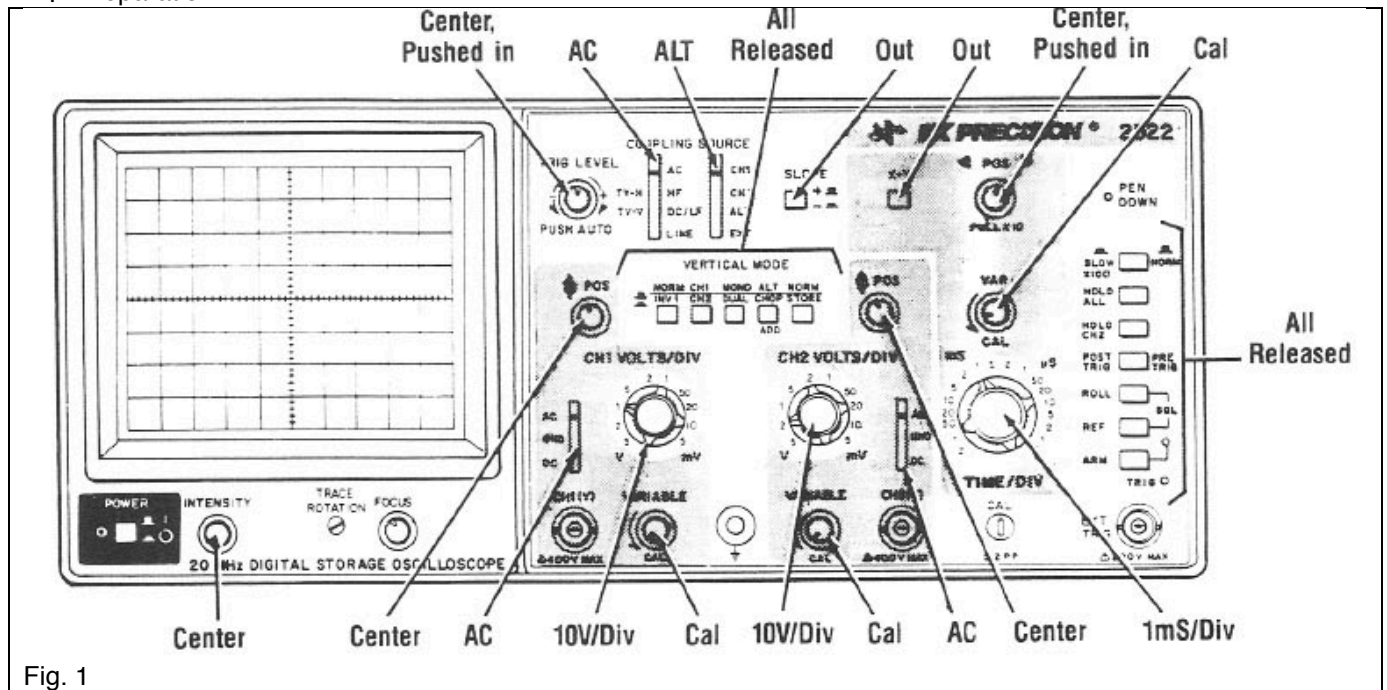


Fig. 1

2. Experiments

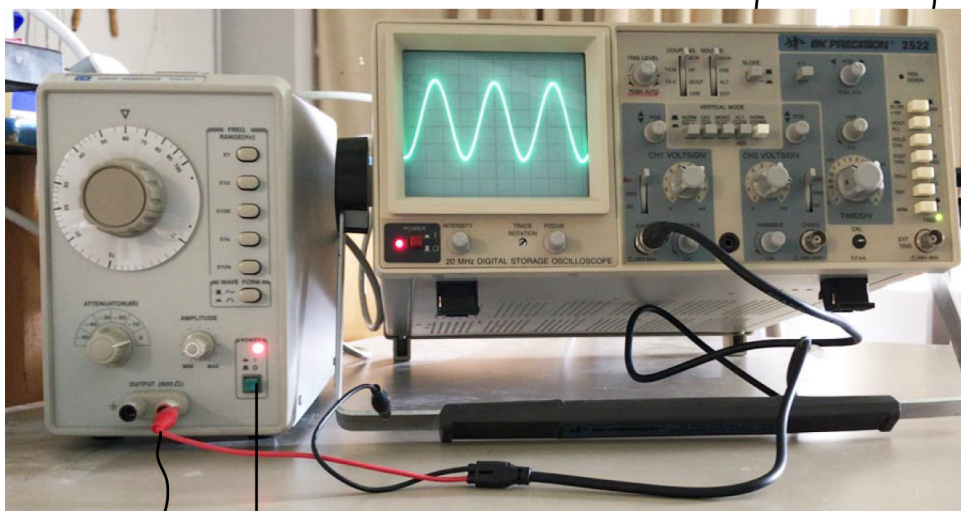
1) Alternated Current

Audio Generator

Oscilloscope

Voltage/Div

Time/Div



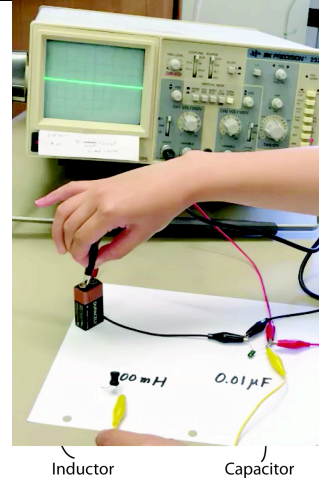
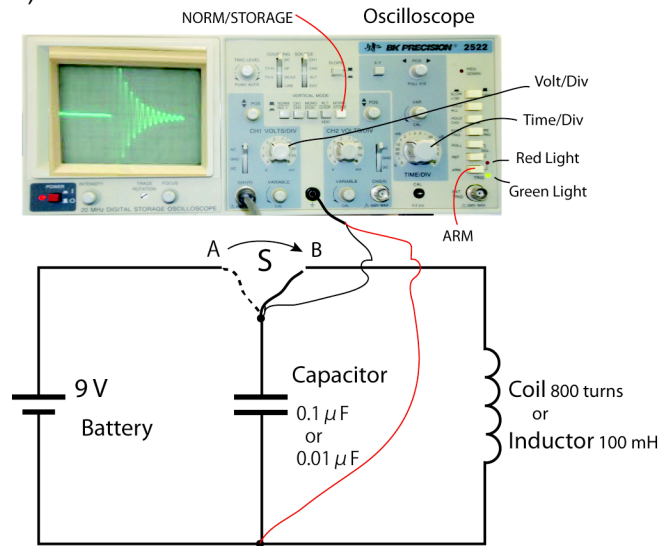
Probe tip

PWR

Probe ground

- (1) Oscilloscope, Audio Generator –PWR on
- (2) Select frequency, (ex. 120 Hz)
- (3) Adjust Intensity, Focus, POSx2 Voltage/DIV, Time/Div
- (4) Measure Voltage and Period
- (5) Calculate Frequency

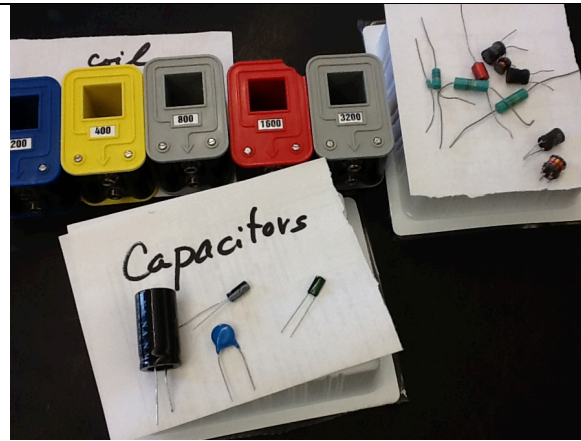
2) Oscillation Circuit



- (1) Connect Battery-Inductor-Capacitor (Position A)
- (2) Push NORM/STORAGE
- (3) Adjust Volt/Div, Time/Div (Try and Error)
- (4) Push ARM (Blue \rightarrow Red light)
- (5) Switch A to B \rightarrow Pattern on Screen
- (6) Repeat (3) ~ (5)

* Measure Period, Frequency
 * Comparison with Theory

$$f = \frac{1}{2\pi\sqrt{LC}}$$



3) Falling a Magnet through a Magnetic Field

