**Introduction**

The PASCO Primary and Secondary Coils set consists of an outer coil, an inner coil, and a soft iron core. The coils and core may be used to investigate and perform experiments in electro-magnetism, inductive reactance, and transformer coupling. Two way binding posts are used in the coils for convenient connection.

**Specifications**

**Inner Coil:** 235 turns, #18 wire approx. 1mm, inductance: $78 \pm 22 \mu H$, resistance: $0.4 \pm 0.1 \Omega$, capacitance: $142 \pm 2 \mu F$.

Dimensions: 12 cm coil length X 1.7 cm coil outside diameter.

Base: 5 cm X 5 cm.

**Outer Coil:** 2920 turns, #29 wire: approx. 0.29 mm, inductance: $63 \pm 3 m H$, resistance: $76 \pm 2 \Omega$, capacitance: $124 \pm 2 \mu F$.

Dimensions: 11 cm coil length X 3.5 cm coil outside diameter.

Base: 5 cm X 5 cm.

**Core:** 16.5 cm X 0.8 cm.

**Ratio of turns:** 12.4:1.

**Ratio of voltage:** approximately 10:1.
Limited Warranty

PASCO scientific warrants this product to be free from defects in materials and workmanship for a period of one year from the date of shipment to the customer. PASCO will repair or replace, at its option, any part of the product which is deemed to be defective in material or workmanship. This warranty does not cover damage to the product caused by abuse or improper use. Determination of whether a product failure is the result of a manufacturing defect or improper use by the customer shall be made solely by PASCO scientific.

Responsibility for the return of equipment for warranty repair belongs to the customer. Equipment must be properly packed to prevent damage and shipped postage or freight prepaid. (Damage caused by improper packing of the equipment for return shipment will not be covered by the warranty.) Shipping costs for returning the equipment, after repair, will be paid by PASCO scientific.