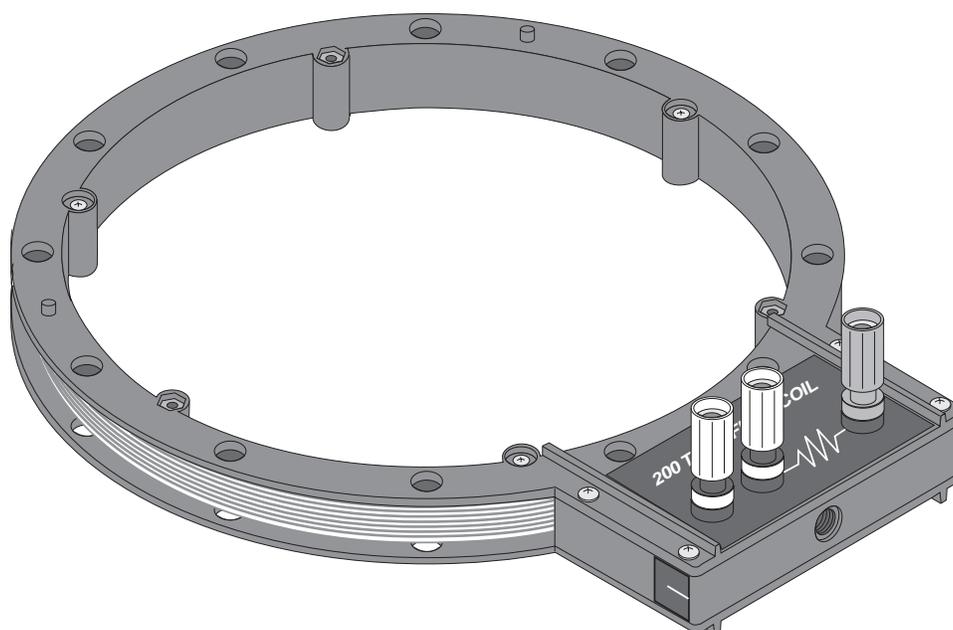


## 200-TURN FIELD COIL



### Introduction

The PASCO EM-6711 200-Turn Field Coil is useful in demonstrations of electromagnetic induction. It can be used to verify Faraday's Law, and it can be used to measure the dependence of the size of the induced electromotive force on the angle of the magnetic field of the field coil and the pickup coil.<sup>1</sup>

### Equipment

The 200-Turn Field Coil is a wire coil on a bobbin that has a base with three terminals that accommodate banana plug contacts. These permit easy connection of either an unmodified electric circuit (for measuring voltage) or a circuit across a 1200  $\Omega$  resistor (for measuring current).

<sup>1</sup>For details of the experiment, see Christopher C. Jones. Faraday's Law apparatus for the freshman laboratory. *Am. J. Phys.* 1987; 55(12):1148-1150.

### Specifications

200 turns, #22 copper wire, approximately .65 mm

Coil Dimensions: inner radius: 9.8 cm  
outer radius: 11.05 cm  
average radius: 10.5 cm

Body material: molded ABS plastic

► **Caution:** Do not operate at currents exceeding 2 amps.

© 1996 PASCO scientific

## Limited Warranty

PASCO scientific warrants the 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. The 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.

## Equipment Return

Should the product have to be returned to PASCO scientific, for whatever reason, notify PASCO scientific by letter or phone BEFORE returning the product. Upon notification, the return authorization and shipping instructions will be promptly issued.

## To Reach PASCO

For technical support, call us at 1-800-772-8700 (toll-free within the U.S.) or (916) 786-3800.

fax: (916) 786-3292

e-mail: [techsupp@pasco.com](mailto:techsupp@pasco.com)

web: [www.pasco.com](http://www.pasco.com)