



Electrical Kits

Motor Construction Kit, Westminster Pattern (ELP.111.230)

This enables students to construct six models electric motors.

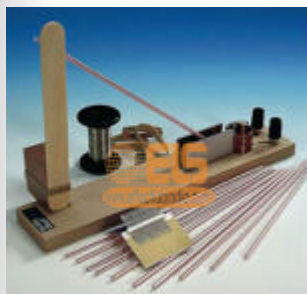
It comprises of the following:

12 Nos Magnadur magnets, 6 Nos armatures, 6 Nos mild steel yokes, 6 Nos support bases wooden, 6 Nos knitting needle shafts (Al shafts), 24 Nos rivets, 12 Nos split pins, 1 No reel 26 SWG PVC covered copper wire, 2 Nos reels cello tape, 30cms rubber tubing, 2.5 mm bore.



Current balance kit (ELP.111.255)

For investigating the interaction between. magnetic fields and a current carrying wire. Includes both wide and narrow balance wires. A copper wire formed into a rectangle with a discontinuity at one end and is balanced on a pair of metal fulcrum. The ends are joined by a plastic sleeve through which a brass pointer is fitted. Electrical connections are made via a 4 mm. socket in the end of each fulcrum.



Worcester's Current balance kit (112 Nuffield Kit) (ELP.111.256)

To build and calibrate a current measuring device. Each current balance when assembled, consists of a coil when conducting acts on a small magnet attached to the end of a drinking straw pointer with a needle pivot on a aluminium channel support. Indication is made on a vertical wood strip positioned by a wood block and an elastic band, and zeroing is effected using wire riders.

Kit comprises of:

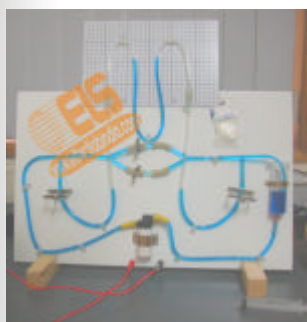
- 100 Drinking straws
- Elastic bands
- 8 A/comax magnets
- 50 g reel of copper wire
- 4 Wooden bases carrying coil
- Channel and terminals
- 4m Reel of adhesive tape
- 1 Pack of 18 needles
- 4 wood blocks
- 10 wood strips



WORCESTER CIRCUIT BOARD (ELP.111.257)

Consists of a base board, complete with terminals a set of metal connection pillars and a number of clips on flexible connection strips and accessory units, enabling a wide variety of electrical circuits to be constructed quickly and easily. The phosphor-bronze strips are so designed that when flexed a little in the fingers, they are easily slipped over the pass where their natural spring holds them firmly in position and ensures a good electrical contact.

The following components are supplied with each board. 20 Flash lamp bulbs, 1.25V, 0.25 A, 9 Connectors with lamp holder, 12 Plain connectors. 1 connector with 4 mm plug and crocodile clip, 2 mounted bell pushes, 2 soft iron nails, 0 mm square head, 1 length bare copper wire 20 swg, 1 length bare Eureka wire 43 swg, 1 length plastic covered copper wire, 1 piece copper foil, 1 piece steel wool, the standard pack is one complete set o detailed above, sufficient for two students.



WATER CIRCUIT BOARD (ELP.111.258)

It consists of a large board on which is mounted a low-voltage electric pump, connected to 4 mm socket terminals, which circulated the water through the circuit. The circuit is of clear plastic tubing connected to glass tubes of different bores representing resistances. Across the resistances is connected a detachable manometer to show the potential difference. Following the resistance is a taper ended tube discharging into a funnel so that the rate of flow representing the current may be shown.

Dimension: Board : 590x320 mm approx.

Manometer: 275x155 mm approx.

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PHYSICS



Westminster Electromagnetic Kit (ELP.111.269)

This kit is most versatile as it enable students to perform a wide range of experiments in electromagnetism such as construction of working motors and meters.

It comprises eight anisotropic alloy magnets, eight anisotropic ceramic ferrite magnets, four steel magnet yokes, six plotting compasses, four hard board formers for compasses, one bottle iron fillings, four iron filling dispensers, four each double C-cores, clips for C-cores, aluminium rings, split aluminium rings, four each support bases, armature with axle tubes, aluminium axle rods, eight split pins, 16 rivets, one length latex rubber tubing, four each formers for coils, reels cellulose tape, reels copper wire, four each sheets white pasteboard, plain postcard, reels white cotton, four each C-resistors 100 ohm, 10 ohm, ten flash lamp bulbs, four neon bulbs, eight (MES) bulb holders, wood clamp, wood block.



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