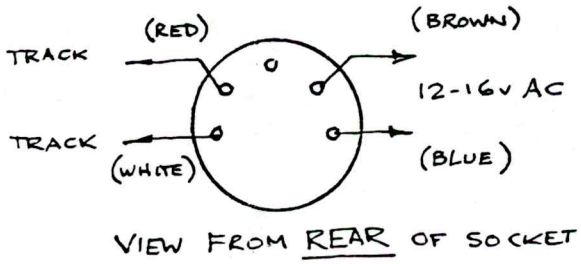
THE HAND HELD PENTROLLER

This controller offers the user of Portescap and other coreless motors the advantage of a cool-running handset type of control with the Pentroller features of a substantially smooth, current-limited output designed to give optimum operation and maximum brush life with these motors. It will also supply standard iron-cored motors up to 0.75 amp.

Connect the 5-pin DIN socket supplied to the track and to the AC supply as shown. The supply should be between 12 and 16 volts AC, 50-60 cycles. Several Pentrollers may be connected to a common AC supply if desired, but must not then be connected to each other or to a common rail. The current rating of the supply should be at least 1½ times the maximum DC output required.

Set the current limit switch (at the bottom of the panel) to '12' for Portescap 1219 motors, to '16' for 1612 or 1625 motors, or to '✿' for iron-cored motors. A red LED indicates when current limiting occurs. It operates very fast and so may flicker occasionally when a train is in motion,especially when the motor is operating near its design limits. This does not necessarily indicate a malfunction.

The ratio of back EMF to applied voltage, on which feedback controllers depend, is generally lower with iron-cored motors than with coreless. The circuit compensates for this when switched to the '✿' position, but it may be found that this causes the more efficient motors (especially the 'can' types) to run too slowly. A small trimmer resistor mounted on the back of the printed-circuit board allows the compensation to be adjusted for the best compromise between the various motors of the owner's stud; it is inoperative on the '12' and '16' positions of the switch. The trimmer may be reached by undoing the two Pozidriv screws and removing the back of the case. The use of a non-metallic screwdriver is recommended.



GUARANTEE

Units which fail due to faulty workmanship, components or materials within one year of purchase will be repaired, or at the maker's option replaced, free of charge if returned to

Stewart Hine, 44 Waverley Rd., Rayners Lane, Harrow, Middx. HA2 9RD

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