

Instructions for Fitting
FOOT'S INDUCTION PHONES



**THE MAGNETIC
BROADCASTING CO. LTD.**

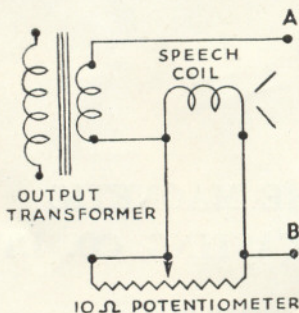
**SUFFOLK HALL
1, UPPER RICHMOND ROAD
LONDON, S.W.15**

INSTRUCTIONS

FOOT'S INDUCTION PHONES

This invention is a development of the system used in Cinemas and Theatres etc., for the deaf, but dispenses with batteries, valves and wires in the pickup unit. The induction phones operate simply by induced magnetism, using high permeability metal which attracts the lines of magnetic force. There are no coils or wire connections, and the user has complete freedom of movement within the area concerned.

The area must be encircled by a loop of wire from a radio or amplifier; the current that normally feeds the loudspeaker is passed through this loop in order to create a magnetic flux throughout the area. For the domestic radio, ordinary copper wire, about 18 s.w.g., cotton covered will be suitable if wiring is inside building, heavy insulation is not necessary. The magnetic flux is not obstructed by walls, etc., so the wiring can be inside or outside the building. If two loops are used in series, it is best to space them so that one loop is level with the phones when standing, and the other at sitting level. This also spreads the flux more evenly.



CONNECT **A & B** TO LOOP OF
COPPER WIRE ROUND WALL
OF ROOM OR HALL

For inside loops use our Copper Tape, easily laid, it just sticks to the wall without fixings or damage.

The maximum power and quality is obtained when the loop matches the impedance of the output transformer. The ordinary radio of 3/4 watts and 2/3 ohms impedance will give ample power for an area of 200/500 sq. feet. If the output is of high impedance a small step-down transformer can be used. Where speaker is required, fit potentiometer as shewn in diagram.

The 'Stethophone' type is used in the same manner as a stethoscope. Insert into the ears with the friction joint hanging down, the blue side towards you, then squeeze the arms together to adjust the tension for comfort. Each phone is fitted with a rotating volume control at the back (maximum indicated by the upright position of the arrow). The rubber ear-pips (various sizes) are detachable and easily removed for cleaning. Weight of the 'Stethophone' is only 2 ounces.



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