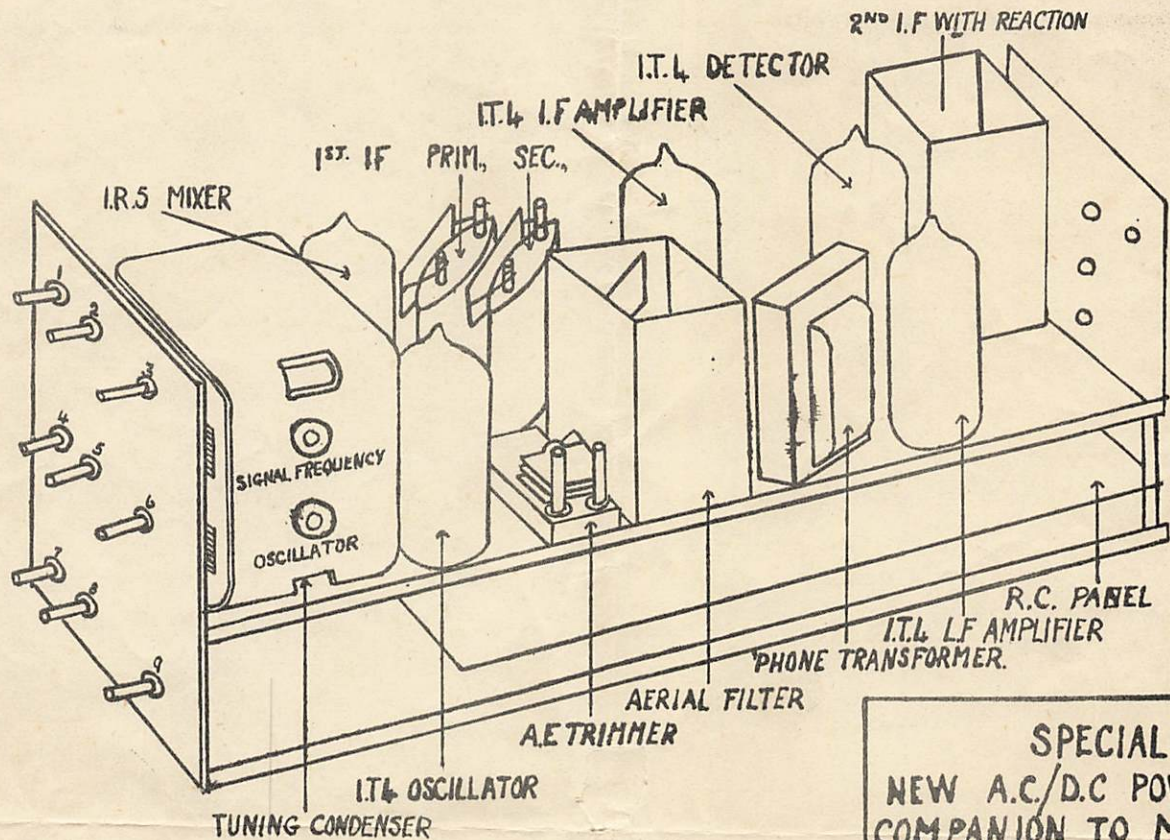
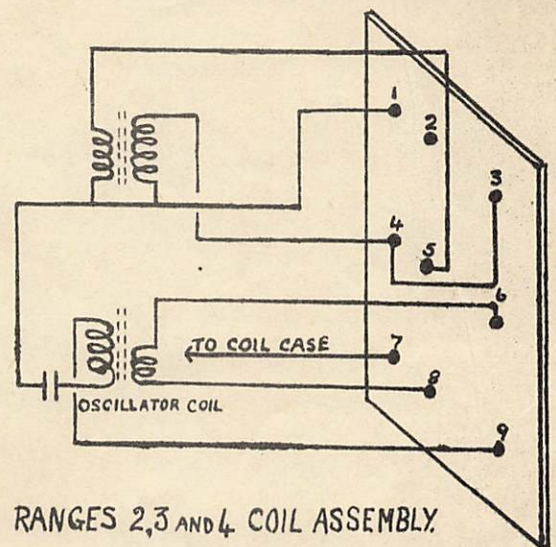
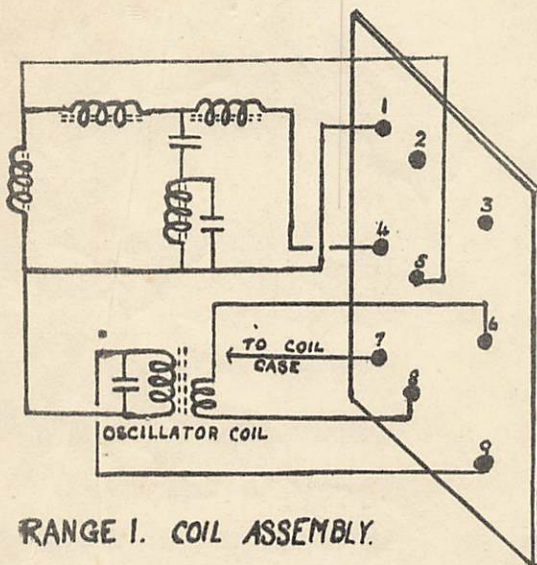


M.C.R.I.



SPECIAL
NEW A.C./D.C. POWER PACK
COMPANION TO M.C.R.I
 POST. £4.15.0 FREE.



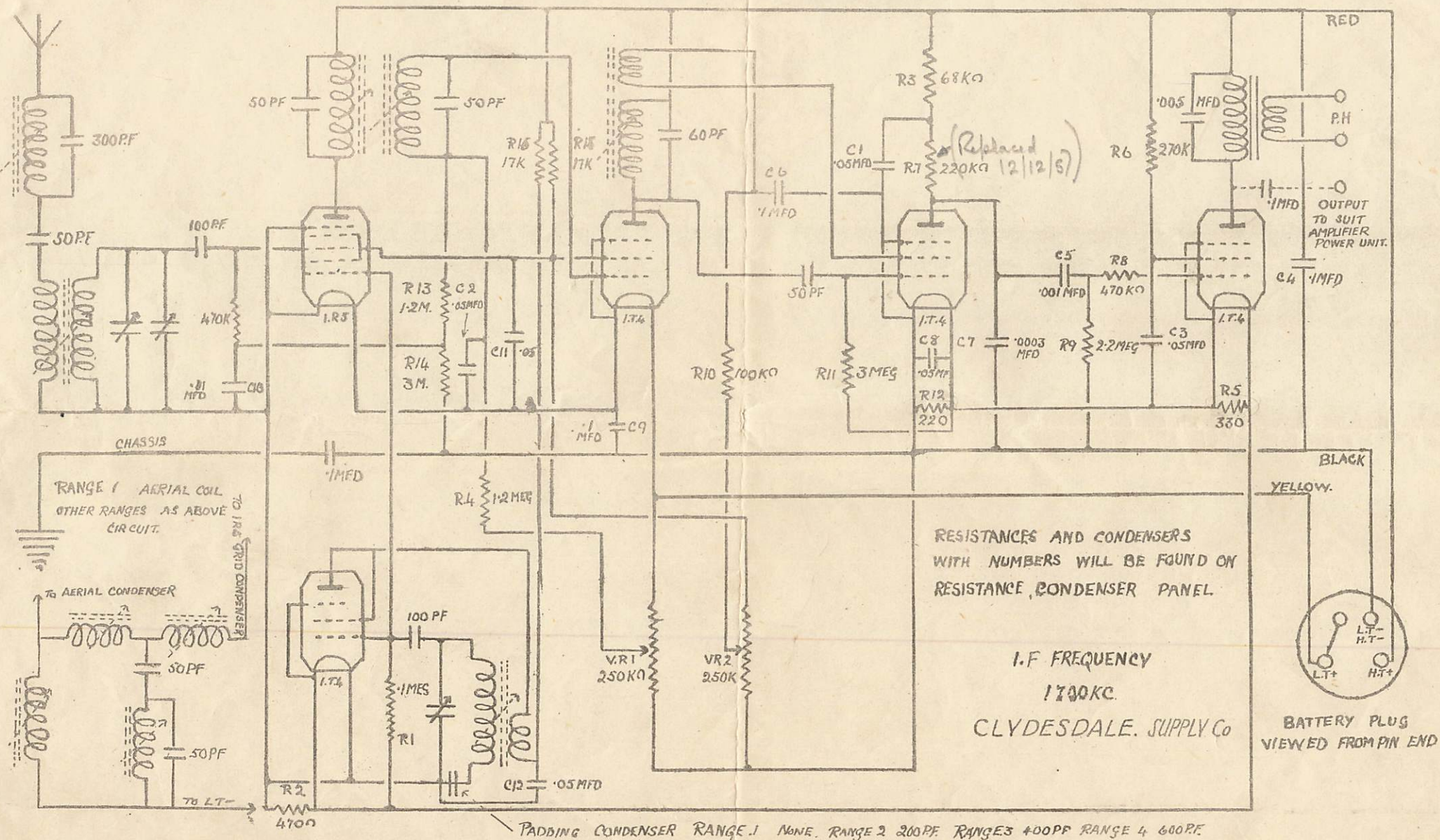
CLYDESDALE SUPPLY CO LTD

THE RADIOMAN'S SHOP

2 BRIDGE ST., GLASGOW, C.5.

BRANCHES IN SCOTLAND, NORTH OF ENGLAND AND NORTHERN IRELAND.

- ALL DRY BATTERY COMMUNICATIONS RECEIVER. -



Notes on the M.R.C.1. and Power Pack.

The circuit of the M.R.C.1. is drawn with a short wave coil assembly plugged-in. The circuit of the coils ranges 2,3, and 4, are the same except for the size of the padding condenser, see diagram. Range 1, Aerial circuit is different, see diagram in bottom left hand corner. You will notice that there is no tuning in the signal frequency but a filter designed to pass signal of frequencies below the highest in the broadcast bands, and to suppress signals above this value. In addition this avoids the difficulties of ganging.

The M.R.C.1. works from 90 volts H.T. The current with sensitivity and reaction control at minimum is 5 MA. Full sensitivity and Set in oscillation 7.2 MA. Filament current 50 MA at 7.5 volts.

As the M.R.C.1. is built to work from an AC/DC Power Pack, the circuit must not come in direct contact with Earth. This is avoided by earthing the circuit through a .1 mfd condenser to the case, and the case of Chassis goes direct to earth.

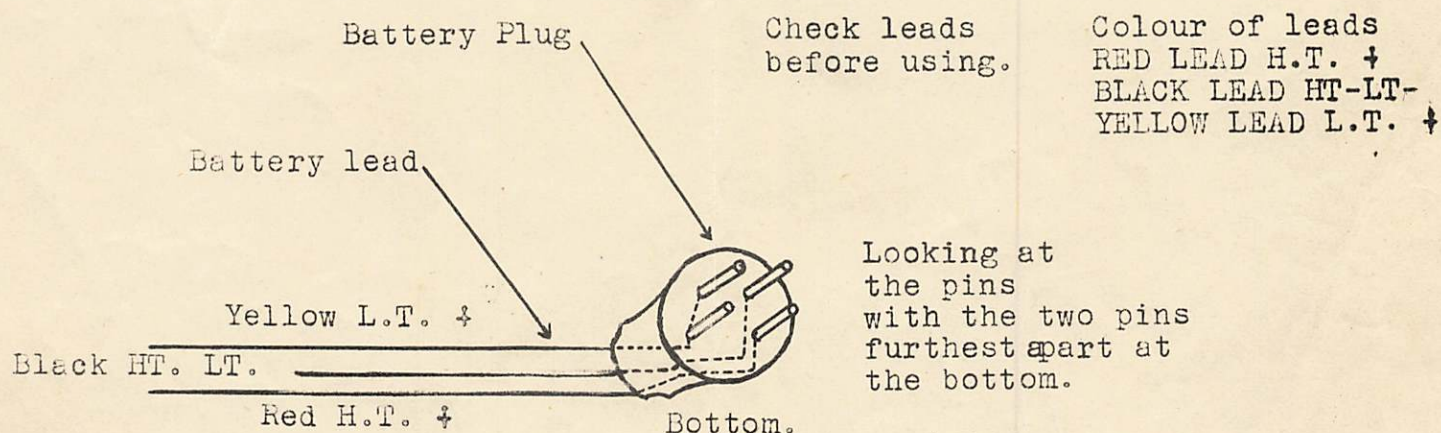
If you construct your own power pack with amplifier, the bias to the amplifier valve 1A5 should be 4.5 volts. It is easier to use a 4.5 volt battery than tap into the filament circuit. The positive of this battery is connected to the filament of the 1A5 valve. You will only require one extra lead to couple the power pack to the set, as the return comes with the battery leads.

As the output from the set is to suit 120 ohms Headphones, the best way to couple the amplifier to the set, is through the .1 mfd condenser shown in dotted lines at the headphone output valve. There will now be 2 condensers in the grid circuit of the 1A5 Valve. One in the set and the other in the amplifier. This is to prevent you receiving a shock from the power supply. The coupling lead between set and amplifier, if it is screened, should be covered for the same reason.

The case of either power pack is not coupled to the circuit at any point, so it is important to watch the insulation between the parts and wiring to the case.

A kit of parts can be supplied including metal case 9" x 4 $\frac{1}{4}$ " x 3 $\frac{1}{4}$ " drilled to take valveholder, speaker and controls. Price £5. 19. 6.

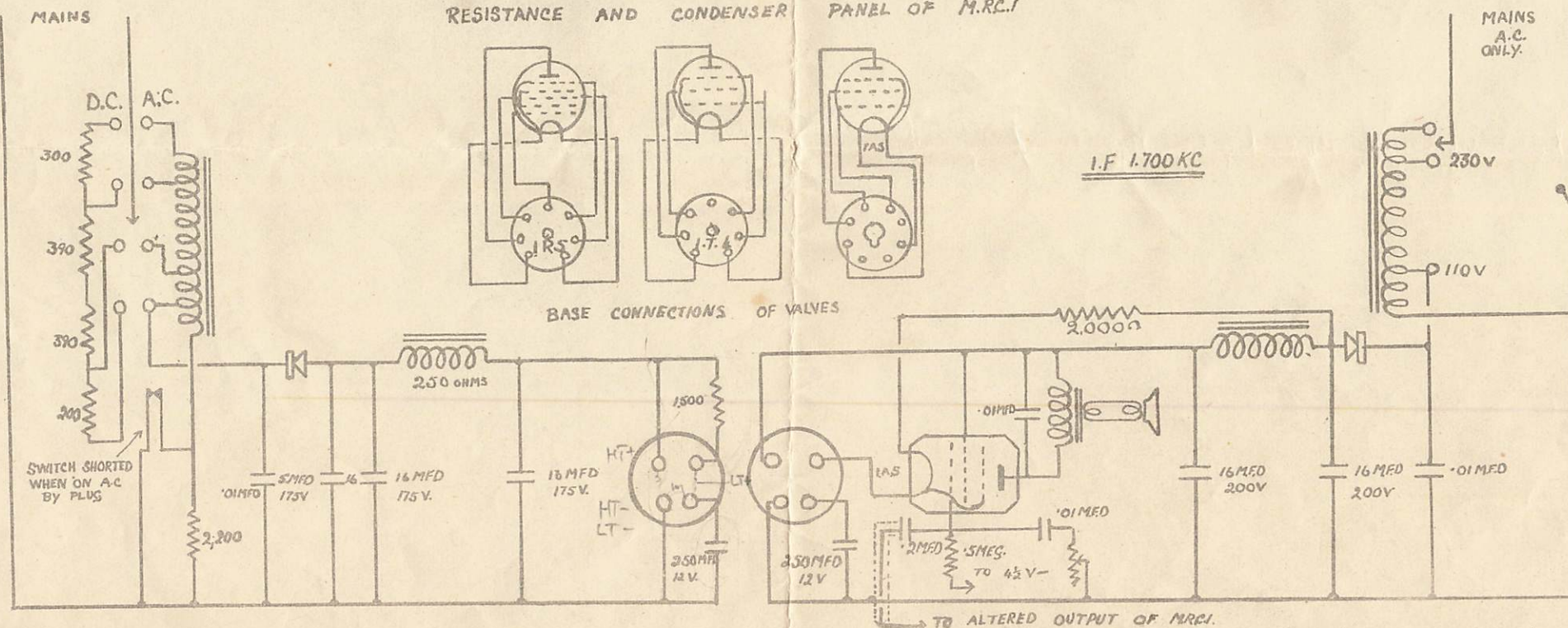
BATTERY CONNECTIONS FOR M.R.C.1.



WARNING: Ever Ready A.D.24 Battery will blow the valves if plugged in without altering the battery connections. Any other battery with the same fittings should be examined to see if suitable before plugging in.

[illegible]

RESISTANCE AND CONDENSER PANEL OF M.R.C.I



250-107 VOLT A.C./D.C. POWER UNIT MADE AS COMPANION UNIT TO M.R.C.I.

TESTED POWER UNIT TO OPERATE L.S., SIZE $9\frac{1}{4} \times 4\frac{1}{4} \times 3\frac{1}{4}$ " WITH $2\frac{1}{2}$ " BUILT IN L.S.