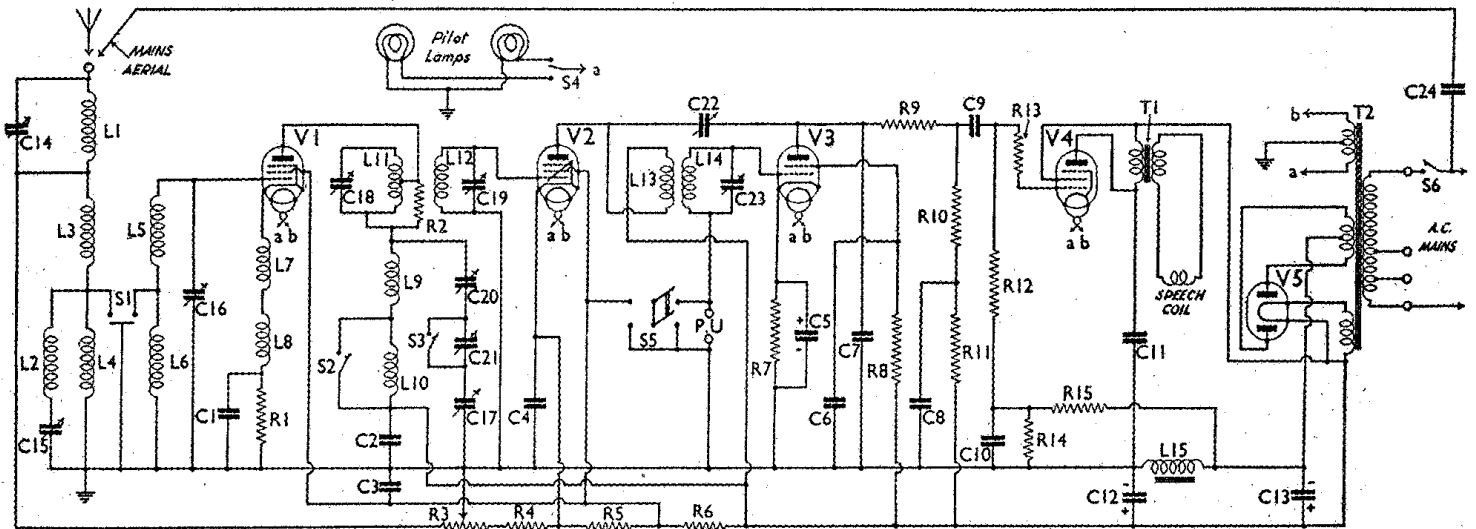


ALBA - Superhet Five



The circuit of the Alba Superhet Five for A.C. mains. The tuning condensers, C16 and C17, have the usual trimmers, which are not indicated above, but are shown in Fig. 3. R3 and R4 are both included in the volume control.

COMPONENTS AND VALUES

| Resistances | Value (Ohms) |
|---|--------------|
| R1 V1 G.B. resistance .. | 7,000 |
| R2 Damping across part of L11 .. | 50,000 |
| R3 } Radio volume control .. | 15,000 |
| R4 } .. | 280 |
| R5 } V1 and V2 S.G.'s pot. divider { | 30,000 |
| R6 } .. | 50,000 |
| R7 V3 G.B. resistance .. | 5,000 |
| R8 V3 S.G. voltage-dropping resistance .. | 2,000,000 |
| R9 V3 anode H.F. stopper .. | 50,000 |
| R10 V3 anode resistance .. | 250,000 |
| R11 V3 anode decoupling .. | 50,000 |
| R12 V4 grid resistance .. | 500,000 |
| R13 V4 grid H.F. stopper .. | 250,000 |
| R14 V4 G.B. potentiometer across L15 .. | 250,000 |
| R15 } .. | 2,000,000 |

| Condensers | Value (μF) |
|---|------------|
| C1* V1 cathode by-pass .. | 0.0025 |
| C2 Oscillator H.T. blocking condenser .. | 0.1 |
| C3 V1 and V2 S.G.'s by-pass .. | 0.05 |
| C4 V2 cathode by-pass .. | 0.01 |
| C5 V3 cathode by-pass, electrolytic .. | 25.0 |
| C6 V3 S.G. by-pass .. | 0.05 |
| C7 V3 anode by-pass .. | 0.0005 |
| C8 V3 anode decoupling .. | 0.5 |
| C9 V4 grid L.F. coupling .. | 0.001 |
| C10 V4 grid decoupling .. | 0.5 |
| C11 V4 anode tone compensator .. | 0.001 |
| C12 H.T. smoothing, dry electrolytic .. | 6.0 |
| C13 } .. | 4.0 |
| C14 I.F. trap tuning, pre-set .. | — |
| C15 1147 KC trap tuning, pre-set .. | — |
| C16 Aerial tuning .. | — |
| C17 Oscillator tuning .. | — |
| C18 1st I.F. pri. tuning, pre-set .. | — |
| C19 1st I.F. sec. tuning, pre-set .. | — |
| C20 } Oscillator padding condensers, pre-set .. | — |
| C21 } .. | — |
| C22 I.F. reaction condenser, pre-set .. | — |
| C23 2nd I.F. sec. tuning, pre-set .. | — |
| C24 Mains aerial condenser .. | 0.0002 |

| Other Components | Value (ohms) |
|---|--------------|
| L1 I.F. trap coil .. | 2.3 |
| L2 M.W. trap coil (1147 KC) .. | 1.7 |
| L3 } Aerial coupling coils .. | 2.6 |
| L4 } .. | 20.0 |
| L5 } Aerial tuning coils .. | 3.4 |
| L6 } .. | 11.0 |
| L7 } Oscillator coupling coils .. | 2.3 |
| L8 } .. | 3.4 |
| L9 } Oscillator tuning coils .. | 1.5 |
| L10 } .. | 1.7 |
| L11 1st I.F. transformer { Pri. .. | 10.0 |
| L12 } Sec. .. | 5.5 |
| L13 2nd I.F. transformer { Pri. .. | 8.5 |
| L14 } Sec. .. | 6.2 |
| L15 Speaker field .. | 2,500.0 |
| T1 Speaker input transformer { Pri. .. | 420.0 |
| } Sec. .. | 0.2 |
| T2 Mains transformer { Pri. (total) .. | 18.0 |
| } Heater sec. .. | 0.2 |
| } Rect. fil. sec. .. | 0.25 |
| } H.T. sec. .. | 350.0 |
| S1-S3 Waveband switches (ganged) .. | — |
| S4 Dial lamp switch .. | — |
| S5 Radio-gramophone switch .. | — |
| S6 Mains switch (ganged with R3, R4) .. | — |

* 0.001 μF in our receiver.