

HALCYON - AC

| OTHER COMPONENTS | | Approx. Values (ohms) |
|------------------|---|-----------------------|
| L1 | Aerial choke coil | 2.0 |
| L2 | Aerial M.W. and L.W. coupling coils, total | 4.5 |
| L3 | | 2.6 |
| L4 | Band-pass primary coils | 28.5 |
| L5 | | Very low |
| L6 | Band-pass coupling coils | Very low |
| L7 | | Very low |
| L8 | Aerial S.W. tuning coil | Very low |
| L9 | | 2.3 |
| L10 | Band-pass secondary coils | 28.0 |
| L11 | | Very low |
| L12 | Osc. S.W. tuning coil | 0.2 |
| L13 | | 2.2 |
| L14 | Osc. M.W. and L.W. tuning coils | 20.0 |
| L15 | | 3.5 |
| L16 | Osc. M.W. and L.W. reaction coils, total | 65.0 |
| L17 | | 65.0 |
| L18 | 1st I.F. trans. { Pri. Sec. | 65.0 |
| L19 | | 65.0 |
| L20 | 2nd I.F. trans. { Pri. Sec. | 65.0 |
| L21 | | 1.5 |
| L22 | Speaker speech coil | 0.1 |
| L23 | Hum neutralising coil | 1,750.0 |
| L24 | Speaker field coil | 340.0 |
| T1 | Speaker input trans. { Pri. Sec. | 0.5 |
| T2 | | 29.0 |
| T3 | Mains trans. { Pri. total Heater sec. Rect. heat sec. H.T. sec. total | 0.05 |
| T4 | | 0.1 |
| T5 | Waveband switches | 550.0 |
| T6 | | — |
| T7 | Mains switch, ganged R5 | — |

| CONDENSERS | | Values (μF) |
|------------|----------------------------------|-------------|
| C1 | Aerial series condenser | 0.0005 |
| C2 | Aerial S.W. coupling | 0.0005 |
| C3 | V1 pent. C.G. decoupling | 0.25 |
| C4 | V1 osc. C.G. condenser | 0.0001 |
| C5 | Osc. fixed M.W. tracker | 0.0015 |
| C6* | V1 S.G.'s and osc. A. decoupling | 2.0 |
| C7 | V2 cathode by-pass | 0.1 |
| C8 | V3 triode A.F. coupling | 0.01 |
| C9 | I.F. by-pass | 0.0001 |
| C10* | V3 triode anode decoupling | 2.0 |
| C11* | V3 cathode by-pass | 50.0 |
| C12 | V3 A.V.C. diode feed | 0.0001 |
| C13 | V3 to V4 A.F. coupling | 0.1 |
| C14 | Tone corrector | 0.005 |
| C15* | V4 cathode by-pass | 50.0 |
| C16* | H.T. smoothing | 8.0 |
| C17* | | 8.0 |
| C18† | Band-pass primary trimmer | 0.000035 |
| C19† | Band-pass primary tuning | 0.000456 |
| C20† | Band-pass secondary trimmer | 0.000035 |
| C21† | Band-pass secondary tuning | 0.001456 |
| C22† | Osc. circuit tuning | 0.000456 |
| C23† | Osc. circuit M.W. trimmer | 0.000035 |
| C24† | Osc. circuit L.W. tracker | 0.00075 |
| C25† | Osc. circuit M.W. tracker | 0.00075 |
| C26† | 1st I.F. trans. pri. tuning | 0.000175 |
| C27† | 1st I.F. trans. sec. tuning | 0.000175 |
| C28† | 2nd I.F. trans. pri. tuning | 0.000175 |
| C29† | 2nd I.F. trans. sec. tuning | 0.000175 |
| C30† | Variable tone control | 0.0005 |

* Electrolytic. † Variable. ‡ Pre-set.

| RESISTANCES | | Values (ohms) |
|-------------|----------------------------------|---------------|
| R1 | V1 pentode C.G. decoupling | 1,000,000 |
| R2 | V1 osc. C.G. resistance | 50,000 |
| R3 | V1 S.G.'s and osc. A. decoupling | 22,000 |
| R4 | V2 fixed G.B. resistance | 300 |
| R5 | Manual volume control | 1,000,000 |
| R6 | V3 signal diode load | 100,000 |
| R7 | V3 C.G. I.F. stopper | 250,000 |
| R8 | V3 G.B. resistance | 1,000 |
| R9 | V3 triode anode decoupling | 10,000 |
| R10 | V3 triode anode load | 10,000 |
| R11 | V3 A.V.C. diode load | 1,000,000 |
| R12 | V4 C.G. I.F. stopper | 50,000 |
| R13 | V4 C.G. resistance | 100,000 |
| R14 | V4 G.B. resistance | 150 |

VALVE ANALYSIS

| Valve | Anode Voltage (V) | Anode Current (mA) | Screen Voltage (V) | Screen Current (mA) |
|------------|-------------------|--------------------|--------------------|---------------------|
| V1 6C4 | 235 | 2.5 | 90 | 4.1 |
| V2 6P4B | 235 | 9.3 | 235 | 3.4 |
| V3 6DD4 | 150 | 3.8 | — | — |
| V4 6E6A | 220 | 33.0 | 235 | 4.2 |
| V5 1W4/350 | 295 | — | — | — |

Oscillator anode 90 V, 2.5 mA.
Each anode, A.C.

Intermediate frequency 130.5 KC/S.

