

| CAPACITORS | | Values | Locations |
|------------------|----------------------|---------|-----------|
| C1 | L.W. aerial trimmer | 275pF | A1 |
| C2 | M.W. aerial trimmer | 30pF | A1 |
| C3 | Aerial tuning ... | — | B1 |
| C4 | V1 C.G. ... | 220pF | E2 |
| C5 | 1st I.F.T. tuning | 100pF | A1 |
| C6 | | 100pF | A1 |
| C7 | A.G.C. decoupling | 0.1μF | F2 |
| C8 | V1 osc. C.G. ... | 220pF | F2 |
| C9 | Osc. tracker | 665pF | A1 |
| C10 | Oscillator tuning... | — | B1 |
| C11 | M.W. osc. trimmers | 30pF | A1 |
| C12 | | 15pF | A1 |
| C13 | L.W. osc. trimmers | 30pF | A1 |
| C14 ¹ | | 640pF | A1 |
| C15 | Osc. tracker ... | 4,700pF | A1 |
| C16 | S.G. decoupling ... | 0.1μF | E2 |
| C17 | 2nd I.F.T. tuning | 100pF | C1 |
| C18 | | 100pF | C1 |
| C19 | I.F. by-pass ... | 100pF | D2 |
| C20 | A.F. coupling ... | 0.01μF | D2 |
| C21 | V3 S.G. decoupling | 0.01μF | D2 |
| C22 | H.T. battery by-pass | 8μF | E2 |
| C23 | I.F. by-pass ... | 100pF | D2 |
| C24 | A.F. coupling ... | 0.01μF | D2 |
| C25 | V4 G.B. by-pass ... | 50μF | C1 |
| C26 | Tone corrector ... | 0.001μF | D2 |

¹ May be 665pF

Intermediate frequency 470 kc/s.

| RESISTORS | | Values | Locations |
|-----------|--------------------|--------|-----------|
| R1 | V1 C.G. ... | 1.5MΩ | E2 |
| R2 | V1 osc. C.G. ... | 27kΩ | E2 |
| R3 | V1 osc. anode load | 33kΩ | F2 |
| R4 | S.G. H.T. feed ... | 33kΩ | E2 |
| R5 | A.G.C. decoupling | 1.5MΩ | E2 |
| R6 | Volume control ... | 1MΩ | C1 |
| R7 | V3 C.G. ... | 10MΩ | D2 |
| R8 | V3 S.G. H.T. feed | 2.2MΩ | D2 |
| R9 | V3 anode load ... | 1.5MΩ | D2 |
| R10 | V4 C.G. ... | 2.2MΩ | D2 |
| R11 | V4 G.B. ... | 560Ω | D2 |

Switches.—S1-S6 are the waveband/battery switches ganged in a single rotary unit on the chassis deck. This unit is indicated in the plan illustration of the chassis, and is shown in detail in the diagram in column 2, where it is drawn as viewed from the rear of an upright chassis.

Starting with the waveband/battery control knob set fully anti-clockwise, the control positions are: Off; L.W.; M.W.

| Valve | Anode | | Screen | |
|----------|----------|------------------------|--------|-------|
| | V | mA | V | mA |
| V1 DK96 | 76 29 | 0.4 Oscillator * | 62 | 0.11 |
| V2 DF96 | 76 | 1.0 | 62 | 0.4 |
| V3 DAF96 | 12 | 0.035 | 29 | 0.026 |
| V4 DL96 | 74 | 4.0 | 76 | 0.6 |

*No reading quoted.

| OTHER COMPONENTS | | Approx Values (ohms) | Locations |
|------------------|--------------------------|----------------------|-----------|
| L1 | Internal aerial coils | 1.0 | C1 |
| L2 | | 3.5 | A1 |
| L3 | 1st I.F.T. | 10.5 | A1 |
| L4 | | 10.5 | A1 |
| L5 | Osc. tuning coil ... | 3.0 | A1 |
| L6 | Osc. reaction coil... | 2.5 | A1 |
| L7 | 2nd I.F.T. | 10.5 | C1 |
| L8 | | 10.5 | C1 |
| L9 | Speech coil ... | 3.0 | — |
| T1 | O.P. trans. { a ... | 680.0 | — |
| | { b ... | — | — |
| S1-S6 | Waveband/battery sw. ... | — | A1 |

CIRCUIT ALIGNMENT

- 1.—Switch receiver to M.W. and turn gang to maximum. Connect output of signal generator between chassis and control grid (pin 6) of V2.
- 2.—Feed in a 470 kc/s signal and adjust L8 (C1) and L7 (D2) for maximum output. Transfer signal generator live lead to point X (B1). Feeding in a 470 kc/s signal, adjust the cores of L4 (A1) and L3 (F2) for maximum output. Do not re-adjust the cores of L7, L8.
- 3.—Connect a 1pF capacitor as dummy aerial between the signal generator live lead and point X. Check that with gang at maximum capacitance, the cursor coincides with the high wavelength ends of the tuning scales.
- 4.—Tune receiver to the 521.7m calibration mark on the outer edge of the tuning scale, feed in a 575 kc/s signal and adjust the core of L5 (A1) for maximum output, choosing the second peak in from the adjusting end.
- 5.—At the same frequency, adjust the inductance of L1 (C1) for maximum output by sliding the coil along its ferrite rod.
- 6.—Tune receiver to 200 m calibration mark on scale, feed in a 1,500 kc/s signal and adjust C11 (A1) and C2 (A1) for maximum output.
- 7.—Repeat the adjustments in operations 4, 5 and 6.

REGENTONE - B1

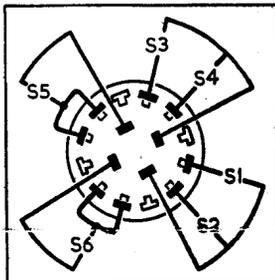
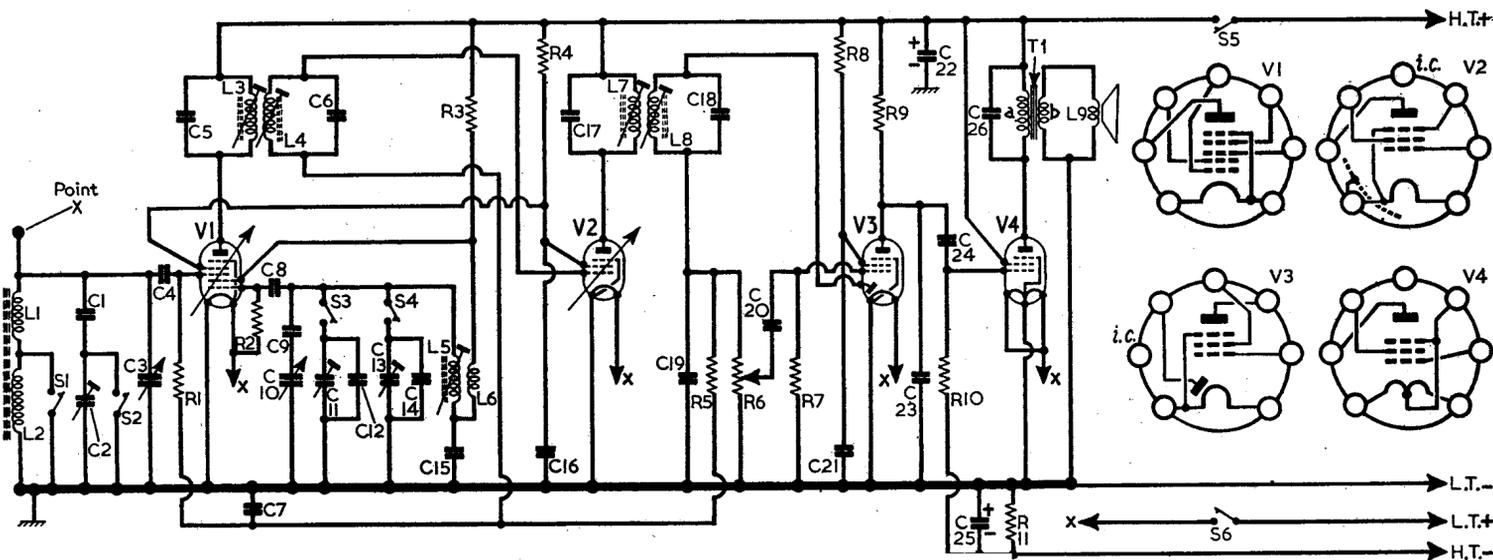


Diagram of the waveband/battery switch unit, as seen from rear of upright chassis.

Switches S1, S3, S5 and S6 close for M.W. operation, and switches S2, S4, S5 and S6 close for L.W. operation. All the switches open in the off position of the control.

Batteries.—Those recommended by the manufacturers are: H.T., Vidor L5512 or Ever Ready B126, rated at 90 V; L.T., Vidor L5040 or Ever Ready AD35, rated at 1.5 V.

Internal Aerial.—This is formed by the M.W. and L.W. aerial tuning coils L1, L2 which are mounted at opposite ends of a length of ferrite rod. The chassis should never be lifted up by means of the ferrite rod aerial, as the rod may fracture if pressure is put on it.

Carrying Case.—The decorative metal-work on the carrying case is coated with a protective lacquer to ensure that it remains bright without polishing. As most metal cleaning agents would attack this protective coating, it is recommended that it is cleaned merely by dusting with a soft cloth.

- 8.—Switch the receiver to L.W. and tune it to the 1,333 m calibration mark on the outer edge of the tuning scale. Feed in a 225 kc/s signal and adjust C13 (A1) for maximum output. Adjust the inductance of L2 (A1) for maximum output at this frequency by sliding the coil along its ferrite rod.