

General Description : Five-valve (including rectifier), three-waveband superheterodyne receiver. Released July 1949.

Power Supply : A.C. Mains, 200-255 volts, 40-100 c/s., consumption 40 watts.

Wavebands : S.W. 15.8-51.3 m. (19-5.8 Mc/s.); M.W. 187-575 m. (1605-520 kc/s.); L.W. 940-2050 m. (320-146 kc/s.).

Intermediate Frequency : 470 kc/s.

Valves : (V1) 7S7; (V2) 7B7; (V3) 7C6; (V4) 7C5; (V5) 7Y4.

Dial Light : 6.5 volts, 0.3 amp. M.E.S. fitting.

Audio Output : 3 watts.

Ext. Loudspeaker : Impedance 3 ohms.

Gram. P.U. : High-impedance or crystal types.

Alignment Procedure :

Equipment : Modulated signal generator, output meter to match 3 ohms, non-metallic trimming tool.

Output should be maintained at 200 mW. All operations should be repeated to ensure accuracy. Set volume and tone controls fully clockwise.

I.F. Transformers : Inject 470-kc/s. signal to control grid of V1 via 0.1- μ F. capacitor. Adjust L13, L12, L6 and L5 for maximum output in the order stated.

Medium Waveband : Tuning capacitor at minimum, adjusting pointer so that its edge just touches beginning of horizontal scale lines. With standard dummy aerial in circuit, inject 1550-kc/s. signal via A and E sockets. Set tuning pointer to line marked M* on top left of scale. Adjust C11 for maximum output. Adjust C2 for maximum output. Check calibration and sensitivity at spot frequencies.

Long Waveband : Set tuning pointer to line marked L* on top right of scale and inject 160-kc/s. signal. Adjust C17 for maximum output. Check calibration and sensitivity at spot frequencies.

Short Waveband : Set tuning pointer to line marked S* on top left of scale and inject 18-Mc/s. signal. Adjust C13 for maximum output. (Two possible positions; correct one requires least trimmer capacity.) Adjust C4.

Set tuning pointer to line marked S* on top right of scale and inject 6-Mc/s. signal. Adjust core of L7 for maximum output. Re-trim C13 and C4 at 18 Mc/s. Check calibration and sensitivity at spot frequencies.

Voltage Checks : Taken with 1000-ohm/volt testmeter; no signals. Measurements should be taken as approximate.

V1	Pin 2	208 v.	Pin 3	82 v.	Pin 5	80 v.
V2	Pin 2	204 v.	Pin 3	80 v.		—
V3	Pin 2	46 v.		—		—
V4	Pin 2	268 v.	Pin 3	202 v.	Pin 7	9 v.
V5	Pin 3	250 A.C.	Pin 6	250 A.C.	Pin 7	280 v.

* Not visible when receiver is in cabinet.