General Description: Five-valve (including rectifier), three-waveband superheterodyne receiver. Model 470AC released May 1947, price £21 11s. 6d. (plus tax), Model 487AC released December 1947, price £,19 15s. (plus tax), Model 48oK released May 1947, price £27 16s. 6d. (plus tax), Model 490K released January 1948, price according to cabinet finish.

Power Supply: A.C. mains, 200-250 volts, 40-100 c/s. Consumption

approximately 50 watts.

Wavebands: S.W. 16-50 m.; M.W. 200-560 m.; L.W. 1000-2000 m.

Intermediate Frequency: 465 kc/s.\*

Valves: (V1) OM10; (V2) OM6; (V3) OM4; (V4) 6V6G; (V5) 6X5G.

Dial Light: 8 volts, 0.3 amp.

Variations: Model 487AC differs from Model 470AC in cabinet design. Later version includes modified tone-corrector circuit. Model 48oK differs from Model 487AC only in cabinet design. Model 490K uses 487AC chassis with a 6½-in. loudspeaker.

Alignment Procedure: Switch on receiver and signal generator at

least 15 minutes before re-aligning.

I.F. Filter Circuit: Inject 465-kc/s.\* signal to AE and E terminals.

Adjust core of L1 for minimum signal.

I.F.: Inject 465-kc/s. signal to top cap of V<sub>I</sub> via 0·01-μF. capacitor without removing grid lead. Adjust cores in following order: L16 (lower); L15 (upper); L8 (lower); L7 (upper).

Š.W.: Tune to 18 Mc/s., inject 18-Mc/s. signal to AE and E terminals

via dummy aerial. Adjust C7 and C16 for maximum output.

M.W.: Tune to 1.4 Mc/s., inject 1.4-Mc/s. signal and adjust C6 and

C17 for maximum output.

L.W.: Tune to 300 kc/s., inject 300-kc/s. signal and adjust C3 and C19 for maximum output. Inject 160-kc/s. signal and adjust C20 for maximum output. Re-check Č20 and C19.

Approx. D.C. Resistance: Resistance of any inductance not listed

below is "very low".

LI2 T2 (primary) 45 ohms, 40 ohms, or 37 ohms accord-26 ohms L6, L7 and L8 10 ohms L11 15 ohms Li5 and Li6 10 ohms Ti (primary) 400 ohms ing to tapping T2 (secondary) 64 + 64 ohms

Voltage Check Points: All measurements taken with a multi-range 1000 ohms/volt testmeter while receiver connected to 200 volts A.C. (nosignal conditions).

Vı	Pin 3	276 v.	Pin 4	105 V.	Pin 6	IIO V.
V2	Pin 3	270 V.	Pin 4	105 V.	Pin 8	4.2 V.
V <sub>3</sub>	Pin 3	35 V.	Pin 8	2.6 v.	Dr. rote-	
V <sub>4</sub>	Pin 3	250 V.	Pin 4	210 V.	Pin 8	9.4 V.
V <sub>5</sub>		340 A.C.		340 A.C.		345 V.

