

General Description : Five-valve (including rectifier), three-waveband superheterodyne table receiver. Released April 1946. Price £14 16s. 3d. (plus tax).

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

Wavebands : S.W. 16-52 m. (18.7-5.75 Mc/s.); M.W. 193-575 m. (1550-520 kc/s.); L.W. 800-2100 m. (376-143 kc/s.).

Dial Light : 8 volts, 0.3 amp.

Ext. Loudspeaker : Impedance 3 ohms.

Intermediate Frequency : 465 kc/s.

Alignment Procedure :

I.F. : Short-circuit oscillator section of tuning gang. Inject 465-kc/s. signal to top cap of V₁ via 0.1-μF. capacitor, and adjust iron cores of I.F. transformers in following order; second I.F.T. secondary, second I.F.T. primary, first I.F.T. secondary, first I.F.T. primary, progressively reducing the input as sensitivity increases.

I.F. filter : Inject strong 465-kc/s. signal to aerial and earth sockets via dummy aerial and adjust core of L₁ for minimum response.

S.W. : Set pointer to 18 Mc/s. and inject signal of that frequency; adjust C₁₇ and C₄ for maximum response.

M.W. : Set pointer to 213 m., inject 1400-kc/s. signal and adjust C₁₈ then C₅ for maximum response.

L.W. : Set pointer to 1000 m., inject 300-kc/s. signal and adjust C₁₉ then C₆ for maximum response.

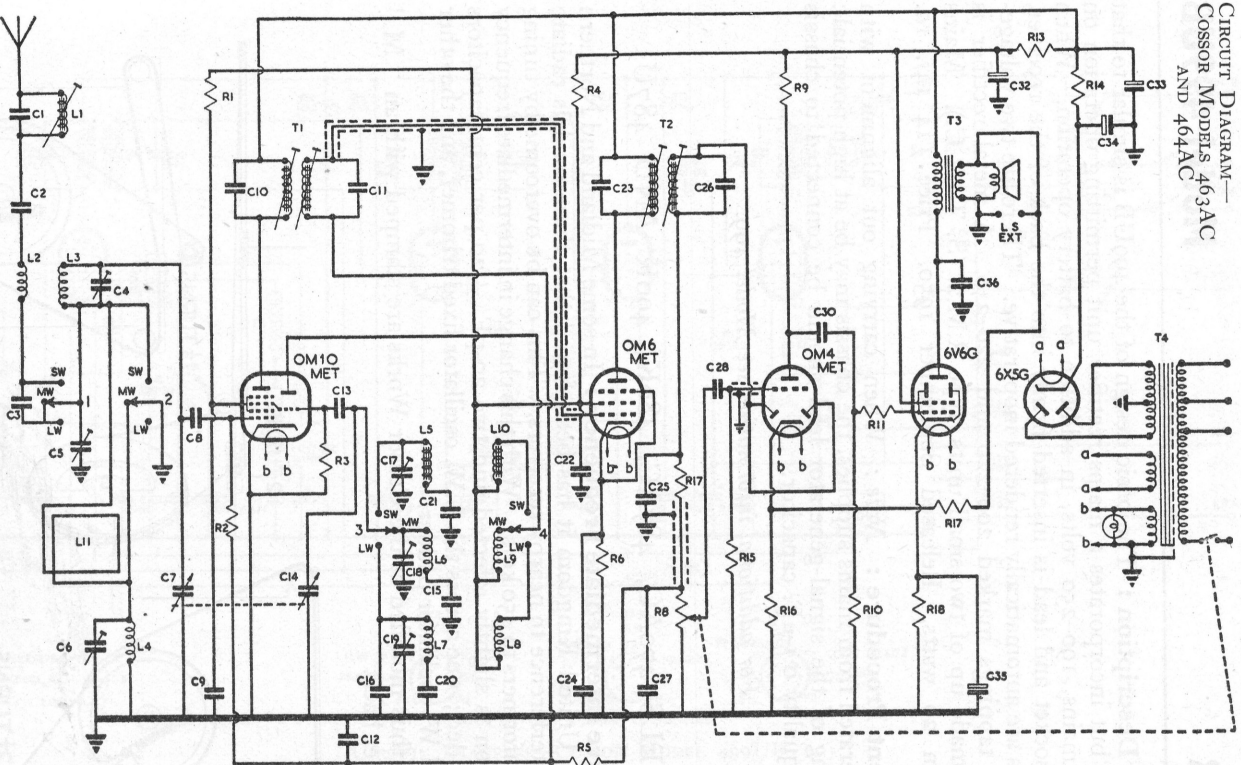
Valve Analysis : Measurements taken with popular testmeter and should be considered as approximate. Receiver tuned to 320 m. with no-signal conditions. Chassis negative. Unsmoothed H.T. 370 volts, smoothed H.T. 290 volts, total H.T. current 57 mA.

		Anode		Screen		Cathode
V ₁	OM10	280 v.	3.6 mA.	95 v.	1.5 mA.	—
(Osc.)	—	103 v.	6.0 mA.	—	—	—
V ₂	OM6	280 v.	3.0 mA.	103 v.	1.0 mA.	3.5 v.
V ₃	OM4	53 v.	1.5 mA.	—	—	—
V ₄	6V6G	266 v.	35 mA.	220 v.	2.4 mA.	10 v.
V ₅	6X5G	350 A.C. each anode	—	—	—	—

Component Values :

C ₁	225 pF.	C ₂₀	185 pF.	C ₃₃	8	R ₇	47k
C ₂	500 pF.	C ₂₁	0.005	C ₃₄	8	R ₈	500k
C ₃	5 pF.	C ₂₂	0.1	C ₃₅	25	R ₉	100k
C ₈	300 pF.	C ₂₃	100 pF.	C ₃₆	0.01	R ₁₀	470k
C ₉	0.01	C ₂₄	0.01			R ₁₁	100k
C ₁₀	100 pF.	C ₂₅	100 pF.	R ₁	2.2k	R ₁₃	3.9k
C ₁₁	100 pF.	C ₂₆	100 pF.	R ₂	330k	R ₁₄	1.5k
C ₁₂	0.1	C ₂₇	100 pF.	R ₃	15k	R ₁₅	4.7M
C ₁₃	100 pF.	C ₂₈	0.005	R ₄	10k	R ₁₆	100
C ₁₅	570 pF.	C ₃₀	0.01	R ₅	2.2M	R ₁₇	220
C ₁₆	50 pF.	C ₃₂	8	R ₆	1k	R ₁₈	270

CIRCUIT DIAGRAM— Cossor Models 463AC AND 464AC



L1 4.5 ohms
L2 Very low
L3 Very low
L4 29 ohms
L5 Very low
L6 2.1 ohms

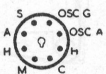
L7 14.3 ohms
L8 7.8 ohms
L9 1.1 ohms
L10 29.5 ohms
L11 Very low

T1 and T2
T3 (primary)
T3 (secondary)
T4 (primary)
T4 (H.I., secondary)

9.5 ohms
354 ohms
Very low
47 ohms
1400 ohms

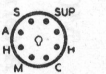
In early models
C1 200 pF.
C25 500 pF.
C27 500 pF.
R3 15k
R6 470

SIG G



OM10 MET

SIG G



OM6 MET

SIG G



OM4 MET



6V6G



6X5G