

COSSOR**MELODY MAKER****Model 503UL**

General Description : Five-valve (including rectifier), three-waveband, superheterodyne table receiver. Released November 1951. Price £15 4s. 8d. (plus tax).

Power Supply : A.C./D.C. mains, 190–250 volts (40–100 c/s. on A.C. supplies). Consumption approximately 57 watts. For voltages between 190–220 the two-pin adjustment plug should be inserted with one pin in the socket on the left, with the other pin in socket in the centre. For 221–250 volts, the plug should be in the centre and right-hand sockets.

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

Intermediate Frequency : 470 kc/s.

Valve Analysis :

<i>Valve</i>	<i>Anode Volts</i>	<i>Anode Current (mA.)</i>	<i>Screen Volts</i>	<i>Screen Current (mA.)</i>	<i>Cathode Volts</i>
V1 14S7 (osc.)	160 85	3.2 6.5	70 —	2 —	— —
V2 7B7	160	7.0	70	2	—
V3 7C6	50	0.2	—	—	Slight
V4 35A5	150	25	70	0.8	5.7
V5 35Z3	190 A.C.	47	—	—	220

Dial Lights : 8 volts, 0.2 amp. M.E.S. fitting.

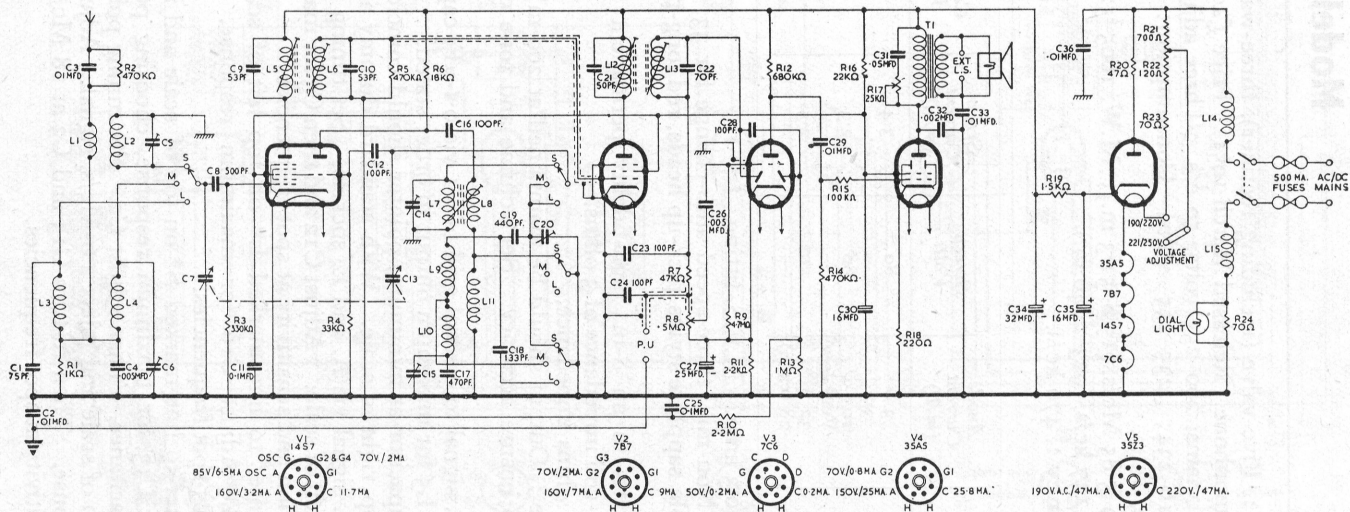
Mains Fuses : Two cartridge type, 500 mA.

Audio Output : 2 watts to an 8-in. high-flux-density loudspeaker with a speech-coil impedance of 3 ohms.

Ext. Loudspeaker : 3 ohms impedance.

Alignment Procedure : Note that the chassis is directly connected to one side of the mains supply. The procedure for this model is similar to that described for Model 494U (page 314), except for the numbering of the adjustment controls, which are as given below :

<i>Range</i>	<i>Frequency</i>	<i>Adjust</i>
I.F.	470 kc/s.	Cores of L13, L12, L6 and L5
M.W.	1550 kc/s.	C20, then C6
L.W.	160 kc/s.	C15
S.W.	18 Mc/s.	C14, then C5
	6 Mc/s.	Core L7



CIRCUIT DIAGRAM—COSSOR MODEL 503UL

D.C. Resistance of Inductors.

L ₁	Very low
L ₂	Very low
L ₃	3.5 ohms
L ₄	13.5 ohms
L ₅	8 ohms
L ₆	8 ohms
L ₇	Very low
L ₈	29.5 ohms
L ₉	5.5 ohms

L ₁₀	7.5 ohms
L ₁₁	2.8 ohms
L ₁₂	18 ohms
L ₁₃	18 ohms
L ₁₄	7 ohms
L ₁₅	7 ohms

T ₁ (Primary)	330 ohms
(Secondary)	1.5 ohms