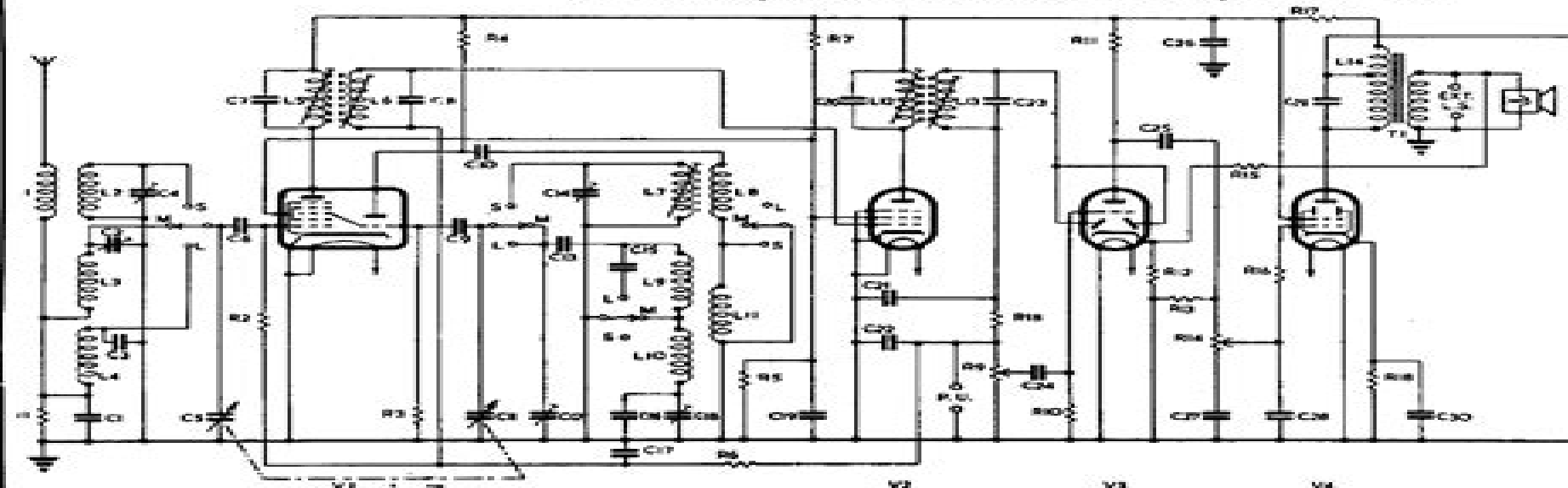


# Circuit diagram of the Cossor Melody Maker 500



This circuit diagram applies also to Models 501A.C., 502 and 520. The component values are those used when the Cossor lectal range of  $v_2$  differences when either of the other valve ranges are used (see table below) are given on page 4.

## COMPONENT LIST

Resistors	
R1	1k5
R2	330k12
R3*	100k12
R4	15k12
R5	15k12
R6	2.2M12
R7	12k12
R8	47k12
R9	500k12
R10	4.7M12
R11*	600k12
R12	100k12
R13*	470k12
R14	500k12
R15	470k12
R16	47k12
R17	2.2k12
R18*	270k12

C1	0.005µF
C2	75pF
C3	500pF
C4	100pF
C5	500pF
C6	500pF
C7	500pF
C8	500pF
C9	500pF
C10	500pF
C11	440pF
C12	133pF
C13	470pF
C14	0.1µF
C15	0.1µF
C16	100pF
C17	100pF
C18	100pF
C19	100pF
C20	100pF
C21	100pF
C22	100pF
C23	100pF
C24	0.005µF
C25*	0.01µF
C26	10µF, 150V
C27	0.005µF
C28	100pF
C29	0.005µF
C30	25µF, 25V
C31	10µF, 150V

\*Where the Octal range of valves is used, C25 is 0.01µF.

## COILS AND TRANSFORMERS

L1	S.W. aerial coil	v.L.
L2	S.W. aerial coupling	v.L.
L3	M.W. aerial coil	3.5k
L4	L.W. aerial coil	13.5k
L5	1st i.f.t. primary	9k
L6	1st i.f.t. secondary	9k
L7	S.W. oscillator coil	v.L.
L8	S.W. feedback winding	2.4k
L9	M.W. oscillator coil	2.8k
L10	L.W. oscillator coil	2.8k
L11	M.W. and L.W. feedback coil	5.5k
L12	2nd i.f.t. primary	9k
L13	2nd i.f.t. secondary	9k
T1	Output transformer	2800 primary
	L14 section	120
	secondary	v.L.
T2	Mains transformer	400
	200V tapping	43.5k
	120V tapping	47k
	240V tapping	47k
	H.T. winding	265 + 165k
	L-n. secondaries	v.L.

## VALVE VOLTAGES AND CURRENT

### A.C. Models

	Anode		Screen		Cathode
	V	mA	V	mA	
V1(a)	95	1.2	—	—	9.6
V1(b)	205	3	80	3.4	
V2	204	10	80	2.3	12.3
V3	46	2	—	—	2
V4	268	32	202	2.5	34.5 (9V)
V5	250 (a.c.)	29	—	—	58 (280V)

The above readings obtained with receiver tuned to low frequency end of m.f. band under no-signal conditions, using a 1k/V meter on a Model 500 using the 757 series valve complement.

### A.C.-D.C. Model

V1(a)	60	1.8	—	—	6.55
V1(b)	140	1.6	50	3.25	
V2	140	3.4	50	1.15	4.55
V3	20	v.L.	—	—	—
V4	220	30	140	2.5	32.5 (6V)
V5	210	43.4	—	—	43.4 (230V)

Above readings taken on receiver using Octal valve complement.

## VALVES

	500, 501A.C., 502, 520	501U
V1 Frequency changer	757 62TH	1457 OM10
V2 L.F. amplifier	787 62VP	787 OM6
V3 Det., a.g.c., a.f.	7C6 62BDT	7C6 OM4
V4 Output	7C5* 67PT	6V6GT 35A5 332PEN
V5 H.T. rectifier	7Y4 65KU	6X5U 35Z3 OM1

\*May be 6V6GT in some receivers.

\* Values may vary if different valve complement is used. With 8SA valves, R3 is 18k12 and R18 is 180k12. With Octal range, R13 is 270k12 and R11 is 100k12.

## Capacitors

C1	0.005µF
C2	75pF
C3	500pF
C4	100pF
C5	500pF
C6	500pF
C7	500pF
C8	500pF
C9	500pF
C10	500pF
C11	440pF

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**M Walker**



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