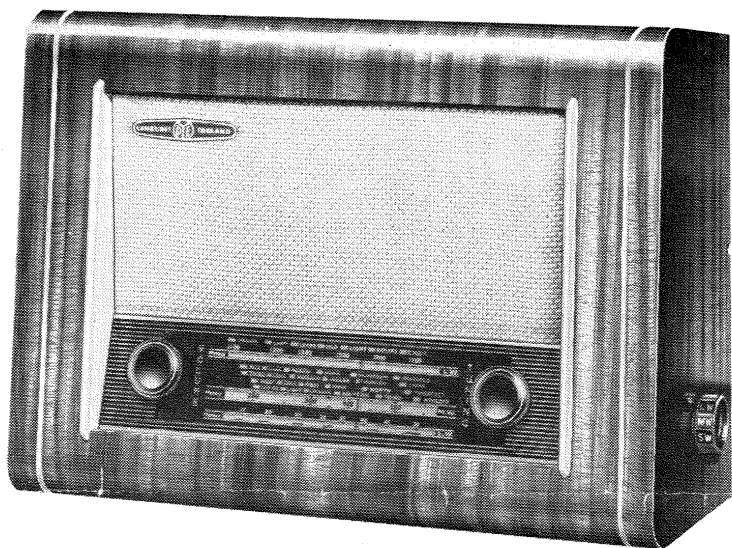


model P75A

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FOR OPERATION OFF
200-250 V. 40-100
CYCLES, A.C. MAINS



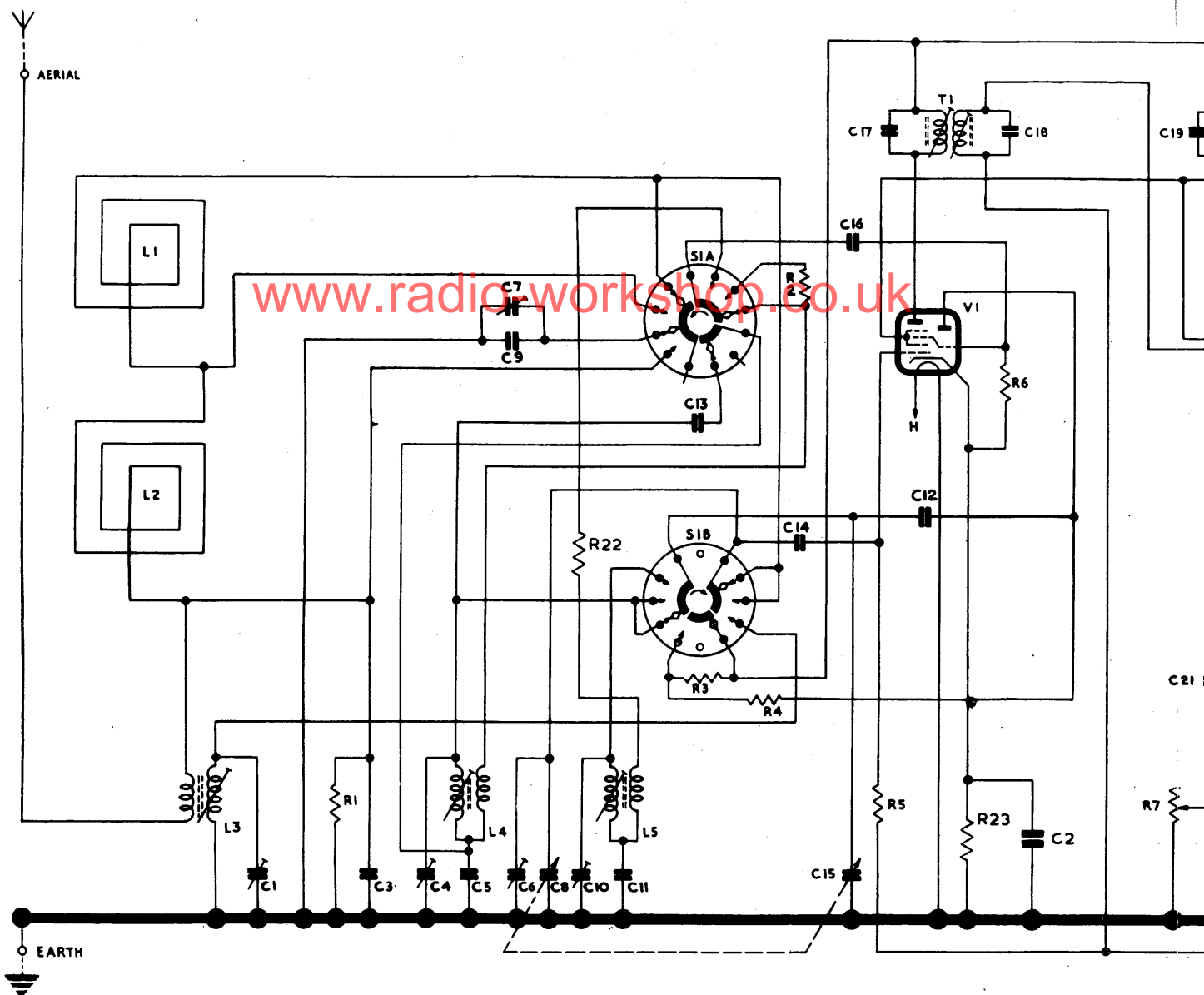
CIRCUIT ANALYSIS

TRIMMING PROCEDURE

Mains Consumption 30 watts.							A.F. Output 2 watts.			
	Valve	Type	Ea	Ia	Es	Is	Osc.		Ek	Ik
							Ea	Ia		
V1	Frequency Changer	6C9	180	3.65	78	2.8	27	3.5	3.9	9.95
V2	I.F. Amplifier	EF.41	180	5.9	78	1.8	—	—	—	7.7
V3	Det. and A.F. Amp.	EBC.41	62	80 μ A	—	—	—	—	1.3	0.08
V4	Output	EL.41	205	22	180	3.15	—	—	5.1	25.15
V5	Rectifier	EZ.40	Anode to Anode 405 V. A.C.						215	42.88

Note.—All measurements taken on Avometer Model 8 instrument with no signal input. All voltages over 10 V. measured on 250 V. range. All voltages between 2.5 V. and 10 V. measured on 10 V. range. All voltages below 2.5 V. measured on 2.5 V. range. Set on M.W. band Gang fully meshed. Mains input 230 V. A.C. into 226-250 V. Tap.

Apply Signal as below	Set receiver controls to	Adjust in order for Maximum Output
(1) 470 kc/s. between chassis and control grid of V1 via a 0.1 μ F condenser	Low frequency end of M.W. band, Gang fully meshed (566 metres)	Iron dust cores of T2 and T1
(2) 600 kc/s. (500 metres) between Aerial and Earth leads via Standard Dummy Aerial	M.W. (500 metres)	Iron dust core of L4
(3) As (2) but 200 metres (1,500 kc/s.)	M.W. (200 metres)	Trimmers C4 and C6
(4) Repeat (2) and (3) until calibration and tracking are correct		
(5) As (2) but 214 kc/s. (1,400 metres)	L.W. Tune to signal	Trimmer C7
(6) 6.1 Mc/s. (49.15 metres) between Aerial and Earth leads via a 400 ohm Dummy Aerial	S.W. (49.15 metres)	Iron dust cores of L5 and L3
(7) As (6) but 17.8 Mc/s. (16.88 metres)	S.W. (16.88 metres)	Trimmers C10 and C1
(8) Repeat (6) and (7) until calibration and tracking are correct		



NOTE:- WAVECHANGE SWITCH SHOWN IN FULLY ANTI-CLOCKWISE POSITION I.E. L.W.

*circuit
diagram
of the
**PYE
MODEL
P75A***

CONDENSERS						CONDENSERS cont'd		
	Specification	Volts	±	Fig.	No.		Specification	Volts
C1	3-50 pF Trimmer	150		3	800167	C25	0.1 µF Tubular	350
C2	0.04 µF			3	669106	C26	0.02 µF Tubular	150
C3	2,700 pF Mica		5%	3	663407	C27	25 µF Electrolytic	12
C4	3-50 pF Trimmer			3	800167	C28	2 µF Electrolytic	150
C5	430 pF Mica		2%	3	664242	C29	0.005 µF Tubular	350
C6	3-50 pF Trimmer			3	800167	C30	16 µF	
C7	3-50 pF Trimmer			3	800166	C31	32 + µF Electrolytic	275
C8	528 pF Swing Gang Condenser			1 & 2	800036	C32	0.005 µF Tubular	350
C9	120 pF Mica		2%	3	664110			
C10	3-50 pF Trimmer			3	800167			
C11	4,700 pF Mica		5%	3	663429			
C12	100 pF Ceramic		20%	3	666806			
C13	430 pF Mica		2%	3	664242			
C14	100 pF Ceramic		20%	3	666806			
C15	528 pF Swing Gang Condenser			1 & 2	800036			
C16	100 pF Ceramic		20%	3	666806			
C17*	100 pF Mica		2%	1 & 2	666776			
C18*	100 pF Mica		2%	1 & 2	666776			
C19*	100 pF Mica		2%	1 & 2	666776			
C20*	100 pF Mica		2%	1 & 2	666776			
C21	0.002 µF Tubular	350		3	669216			
C22	15 pF Ceramic		20%	3	666801			
C23	100 pF Ceramic		20%	3	666806			
C24	0.005 µF Tubular			3	669218			

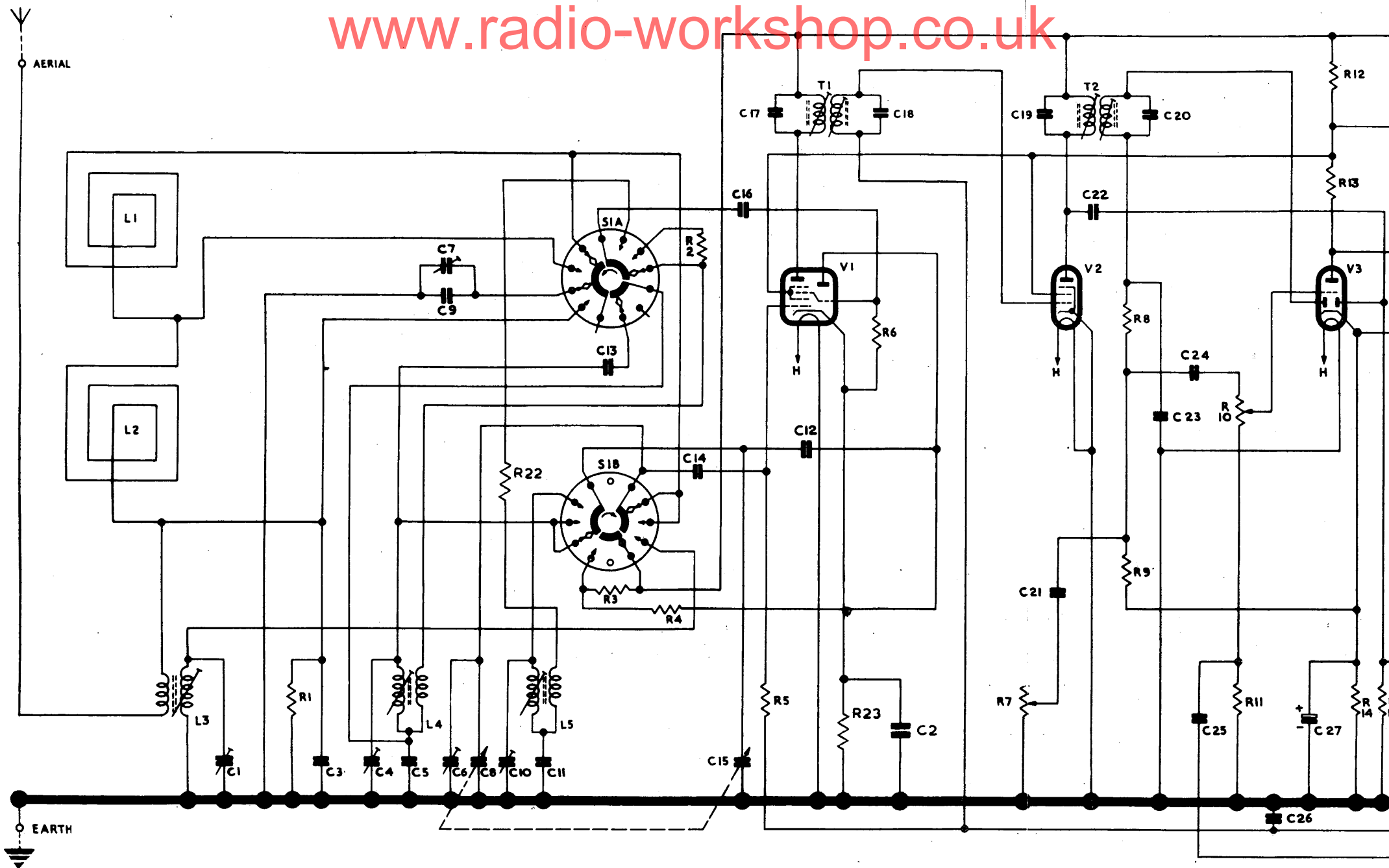
INDUCTANCES		
	Specification	Ref.
L1	M.W. Frame Aerial	
L2	L.W. Frame Aerial	
L3	S.W. Aerial Coil	S.W.14/
L4	M.W. & L.W. Osc. Coil	M.W.14
L5	S.W. Osc. Coil	S.W.22/



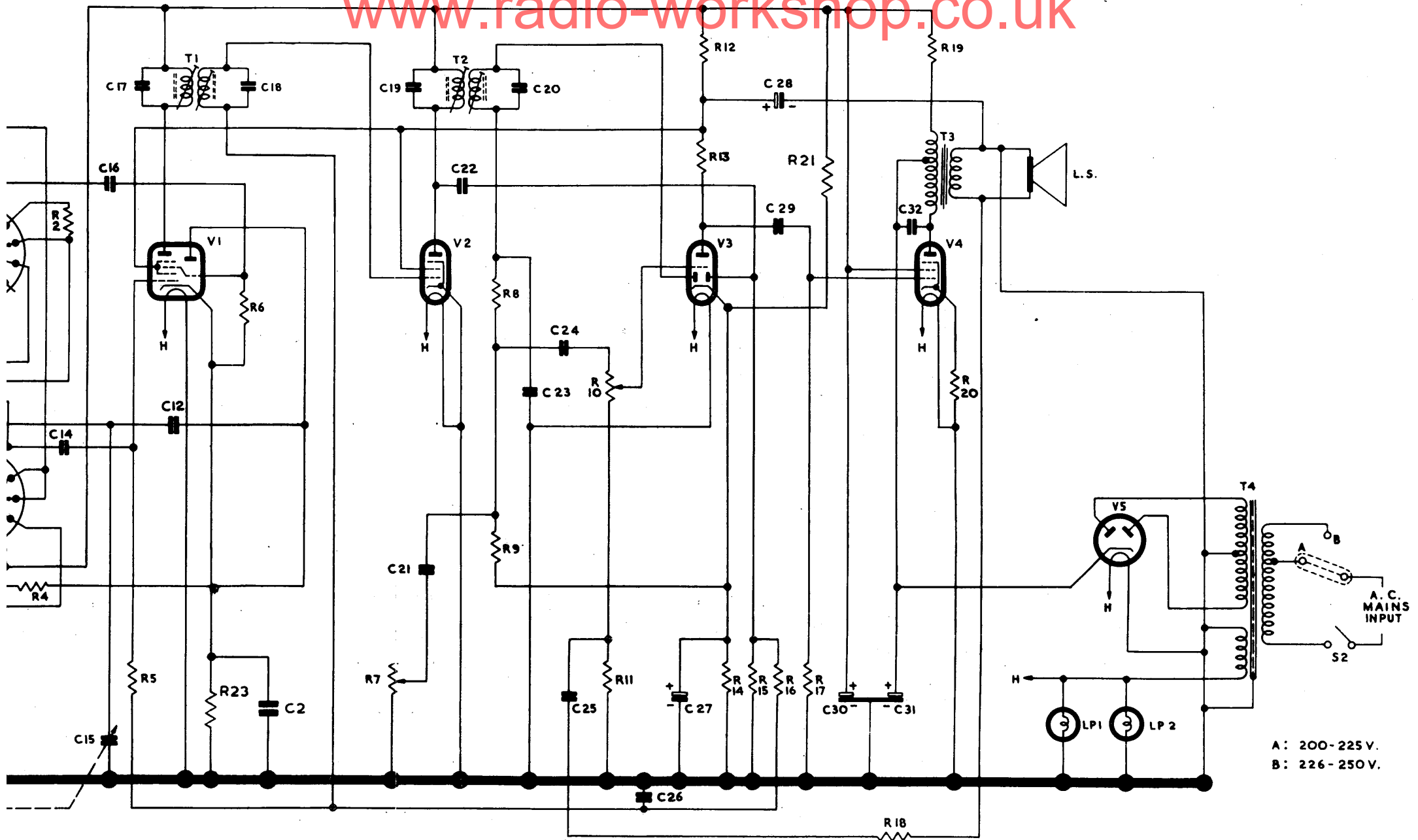
A diagram showing a large circle containing a smaller central circle. Eight smaller circles are arranged in a ring around the central circle, each containing a number from 1 to 8. The numbers are arranged clockwise starting from the bottom: 1, 2, 3, 4, 5, 6, 7, and 8.



Notes



NOTE:- WAVECHANGE SWITCH SHOWN IN FULLY ANTI-CLOCKWISE POSITION I.E. L.W.



A: 200-225 V.
B: 226-250 V.