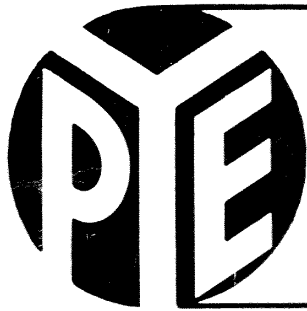
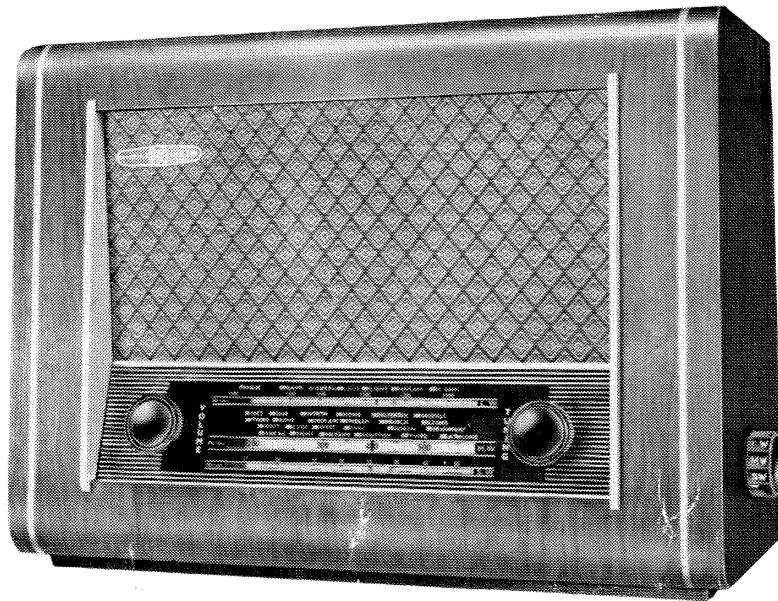


SERVICE SHEET FOR



model P75T

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



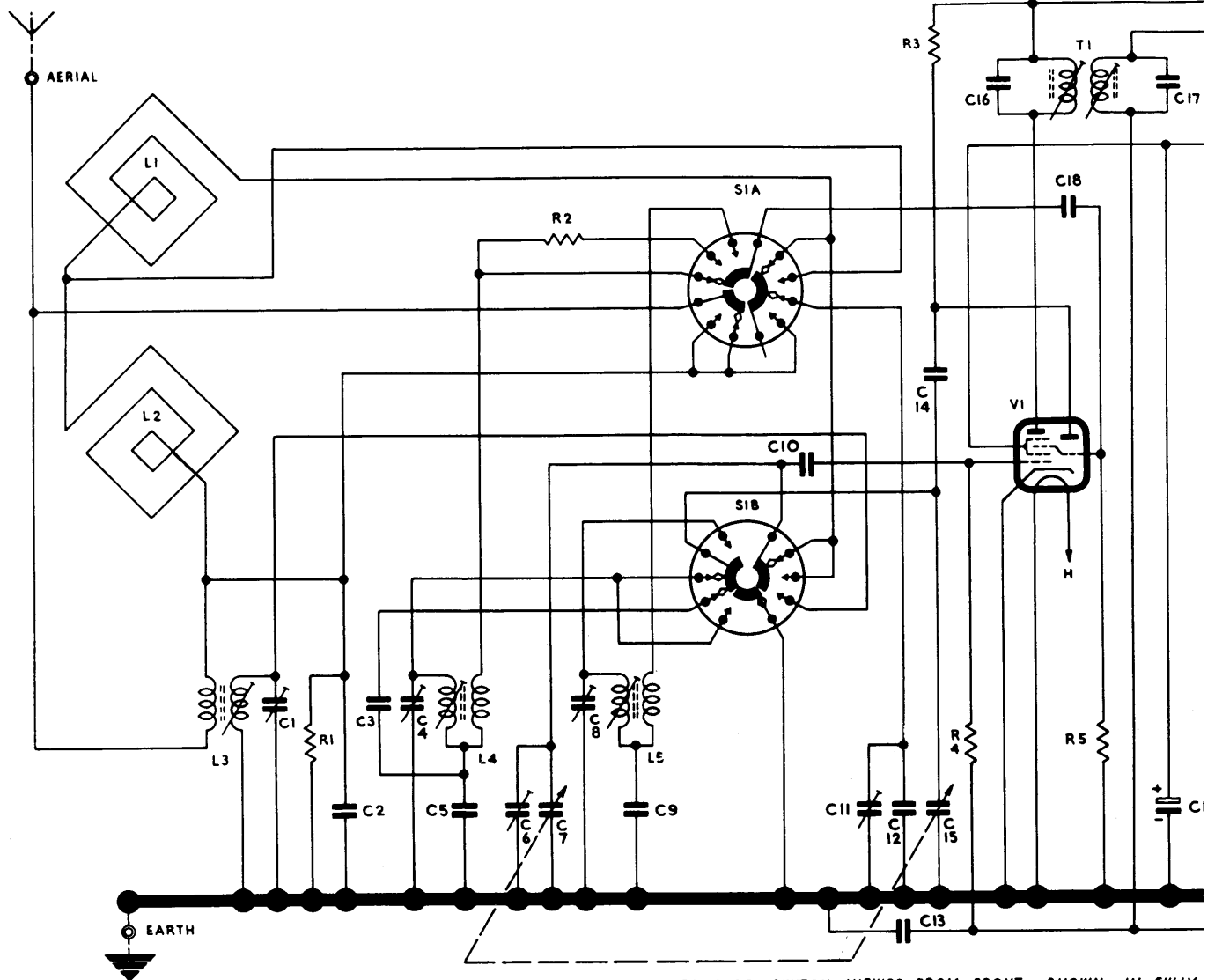
		Mains Consumption 35 watts.				A.F. Output 2 watts.					
	Valve	Mullard	Ea	Ia	Es	Is	Osc.		Ek	Ik	
							Ea	Ia			
V1	Frequency Changer	ECH.42	194	1.1	47	2.22	73	2.65	—	5.97	
V2	I.F. Amplifier	EF.41	194	2.7	47	1.18	—	—	—	3.88	
V3	Det. and A.F. Amp.	EBC.41	24	0.11	—	—	—	—	0.5	0.11	
V4	Output	EL.41	205	23	194	3.2	—	—	5.7	26.2	
V5	Rectifier	EZ.40	Anode to Anode 390 V. A.C.						216	36.16	

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 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 C11
(6) As (2) but 1.8 Mc/s. (167 metres)	T.B. (167 metres)	Iron dust cores of L5 and L3
(7) As (2) but 4.0 Mc/s. (75 metres)	T.B. (75 metres)	Trimmers C8 and C1
(8) Repeat (6) and (7) until calibration and tracking are correct.		

N.B.—Both trimming points on the Trawler Band are indicated on the scale by small spots on the upper edge of the track.

PYE LTD . CAMBRIDGE . ENGLAND



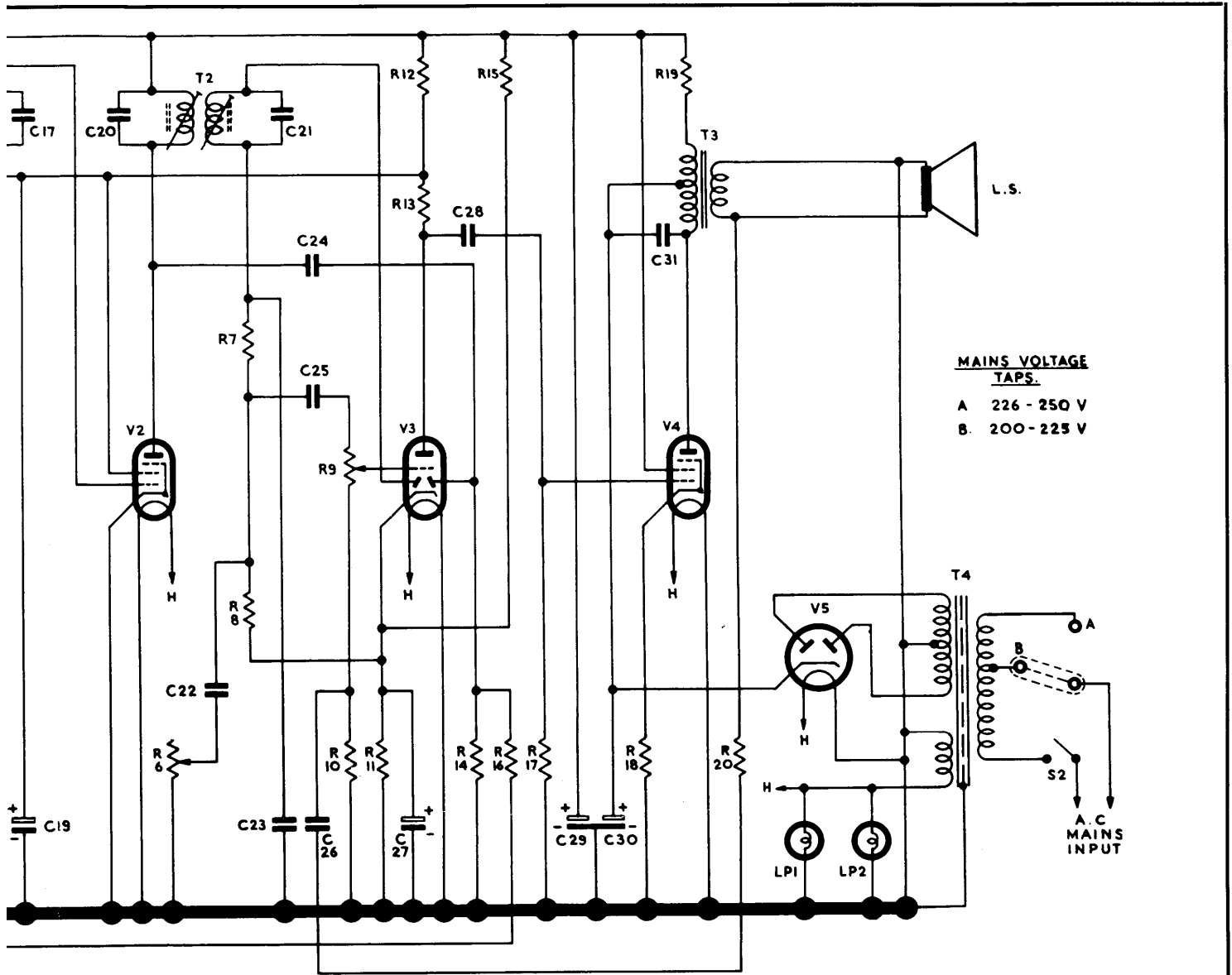
NOTE:- WAVECHANGE SWITCH VIEWED FROM FRONT, SHOWN IN FULLY

circuit diagram
of the
PYE MODEL
P75T

CONDENSERS

	Specification	Volts	±	Ft
C1	3-50 pF Trimmer			
C2	2,700 pF Mica		5%	
C3	390 pF Mica		2%	
C4	3-50 pF Trimmer			
C5	360 pF Mica		2%	
C6	3-50 pF Trimmer			
C7	528 pF Swing Gang Condenser			
C8	3-50 pF Trimmer			
C9	1,700 pF Mica		5%	
C10	100 pF Ceramic		20%	
C11	3-50 pF Trimmer			
C12	120 pF Mica		2%	
C13	0.02 μF Tubular	150		
C14	100 pF Ceramic		20%	
C15	528 pF Swing Gang Condenser			
C16*	100 pF Mica		2%	
C17*	100 pF Mica		2%	
C18	100 pF Ceramic		20%	
C19	2 μF Electrolytic	150		
C20*	100 pF Mica		2%	
C21*	100 pF Mica		2%	
C22	0.002 μF Tubular	350		
C23	100 pF Ceramic		20%	
C24	15 pF Ceramic		20%	
C25	0.005 μF Tubular	350		
C26	0.1 μF Tubular	350		
C27	25 μF Electrolytic	12		
C28	0.005 μF Tubular	350		
C29	16 + μF	275		
C30	32 μF			
C31	0.005 μF Tubular	350		

Note.—* Integral part of I.F. Transformer.



MAINS VOLTAGE TAPS.

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

FULLY ANTI-CLOCKWISE POSITION, I.E. "L.W." POSITION.

				RESISTORS				INDUCTANCES						
±	Fig.	No.		Ohms	Watts	±	Fig.	No.	Specification	Ref.	Fig.	No.		
3%	3	800167	R1	22,000	..	20%	3	670400	L1	MW Frame Aerial	I & 2	078004		
2%	3	663407	R2	1,500	..	10%	3	670393	L2	LW Frame Aerial	I & 2	078003		
2%	3	664232	R3	56,000	..	20%	3	670539	L3	Trawler Aerial Coil	3	780605		
2%	3	800167	R4	1 meg.	..	20%	3	670410	L4	MW and LW Osc. Coil	M.W.25	781189		
2%	3	664222	R5	47,000	..	20%	3	670402	L5	Trawler Osc. Coil	T.B.8	781218		
2%	3	800167	R6	1 meg. Tone Control	..	10%	3	810418	SWITCHES, LAMPS, ETC.					
2%	2	800036	R7	100,000	..	20%	3	670404						
3%	3	800167	R8	470,000	..	20%	3	670408						
5%	3	666795	R9	1 meg. Volume Control	..	10%	3	810250						
3%	3	666806	R10	390	..	10%	3	670513						
3%	3	800166	R11	4,700	..	10%	3	670526						
2%	3	664108	R12	47,000	..	10%	3	670462						
2%	3	669105	R13	220,000	..	20%	3	670406						
0%	3	666806	R14	1 meg.	..	20%	3	670410						
1 & 2	1 & 2	800036	R15	1 meg.	..	20%	3	670410						
2%	1 & 2	666776	R16	1 meg.	..	20%	3	670410	S1A	Rear	} Wavechange Switch	3	083035	
2%	1 & 2	666776	R17	1 meg.	..	20%	3	670410	S1B	Front				3-position
0%	3	666806	R18	220	..	10%	3	670510	S2	ON/OFF Switch on Volume Control	3	810250		
2%	3	667027	R19	1,600	..	5%	3	671836	LPI	Dial Lamp 6.5 v., 0.3 amp.	I & 2	700494		
2%	1 & 2	666776	R20	3,900	..	10%	3	670525	LP2	Dial Lamp, 6.5 volt., 0.3 amp.	I & 2	700494		
2%	1 & 2	666776									LS..	Loudspeaker, 6½-inch P.M.	1	850092
0%	3	669216									MISCELLANEOUS			
0%	3	666806												
0%	3	666801												
0%	3	669218												
0%	3	668603												
0%	3	667170												
0%	3	669218												
0%	3	667572												
0%	1 & 2	669218												
				TRANSFORMERS										
				Specification		Fig.	No.							
				T1	1st I.F. Trans. { Prim. 10 Ω Sec. 10.8 Ω }	I & 2	770369/A							
				T2	2nd I.F. Trans. { Prim. 10 Ω Sec. 10.8 Ω }	I & 2	770369/A							
				T3	Output Trans. { Prim. Start to Finish 490 Ω Sec. 0.37 Ω }	I & 2	077041							
				T4	Mains Trans. { Prim. 70 Ω on 226-250 v. Tap Sec. 230 Ω + 245 Ω }	I & 2	077001							
											Part No.			
								Cabinet			063006			
								Tuning Scale			070447			
								Knob (Wavechange)			481186			
								Knob (Tone)			550122			
								Knob (Tuning or Volume)			481172			
								Knob Spring			700900			

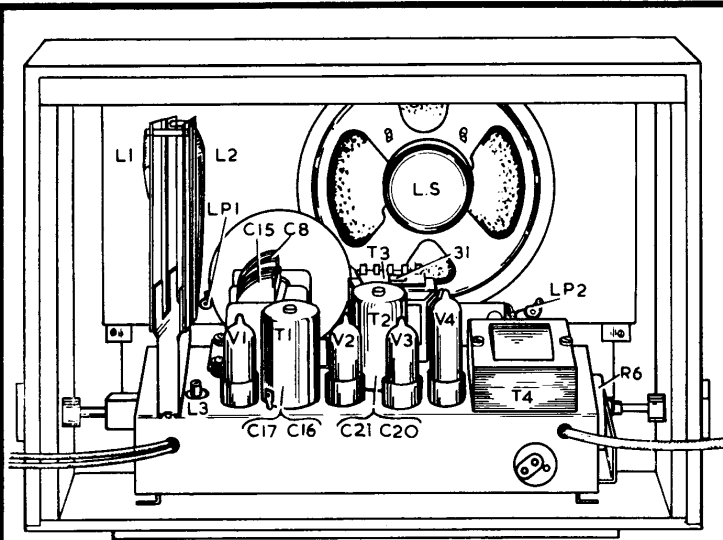


FIG. 1

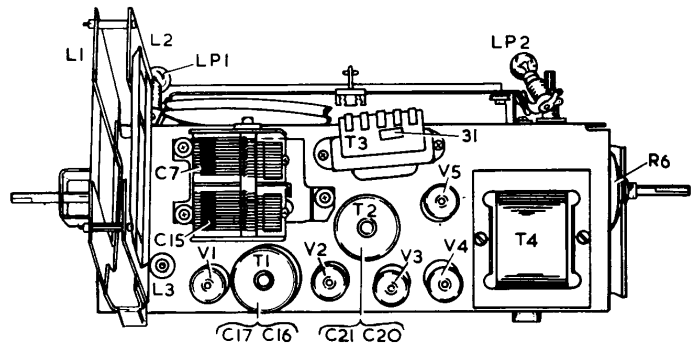
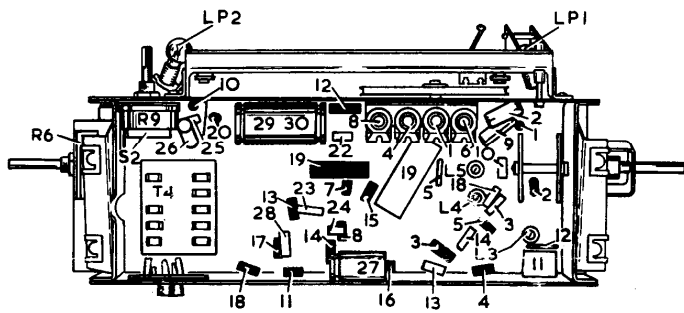


FIG. 2



NOTE: RESISTORS SHOWN BLACK

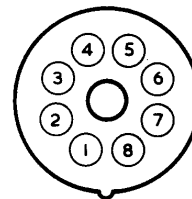
CODING FOR SWITCH UNIT



FIG. 3

VALVE BASE CONNECTIONS

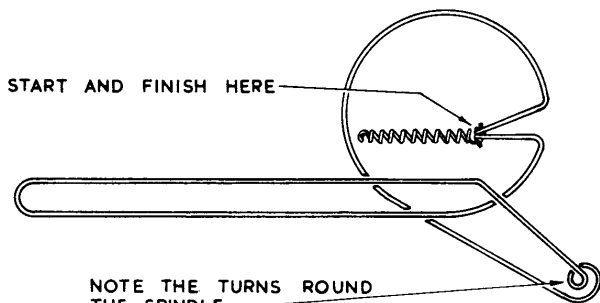
	1	2	3	4	5	6	7	8
V1	H	AH	AT	G3 GT	G2 G4	G1	K	H
V2	H	A	K G3 S	K G3 S	G2	G1	K G3 S	H
V3	H	A	G	S	D1	D2	K	H
V4	H	A	K G3	—	G2	G1	K G3	H
V5	H	AI	—	—	—	A2	K	H



VIEW LOOKING AT PINS

FIG. 4

THE DRIVE CORD SHOULD BE OF NYLON BRAIDED GLASS YARN LENGTH $29\frac{3}{4}$ BETWEEN CENTRES OF LOOPS.



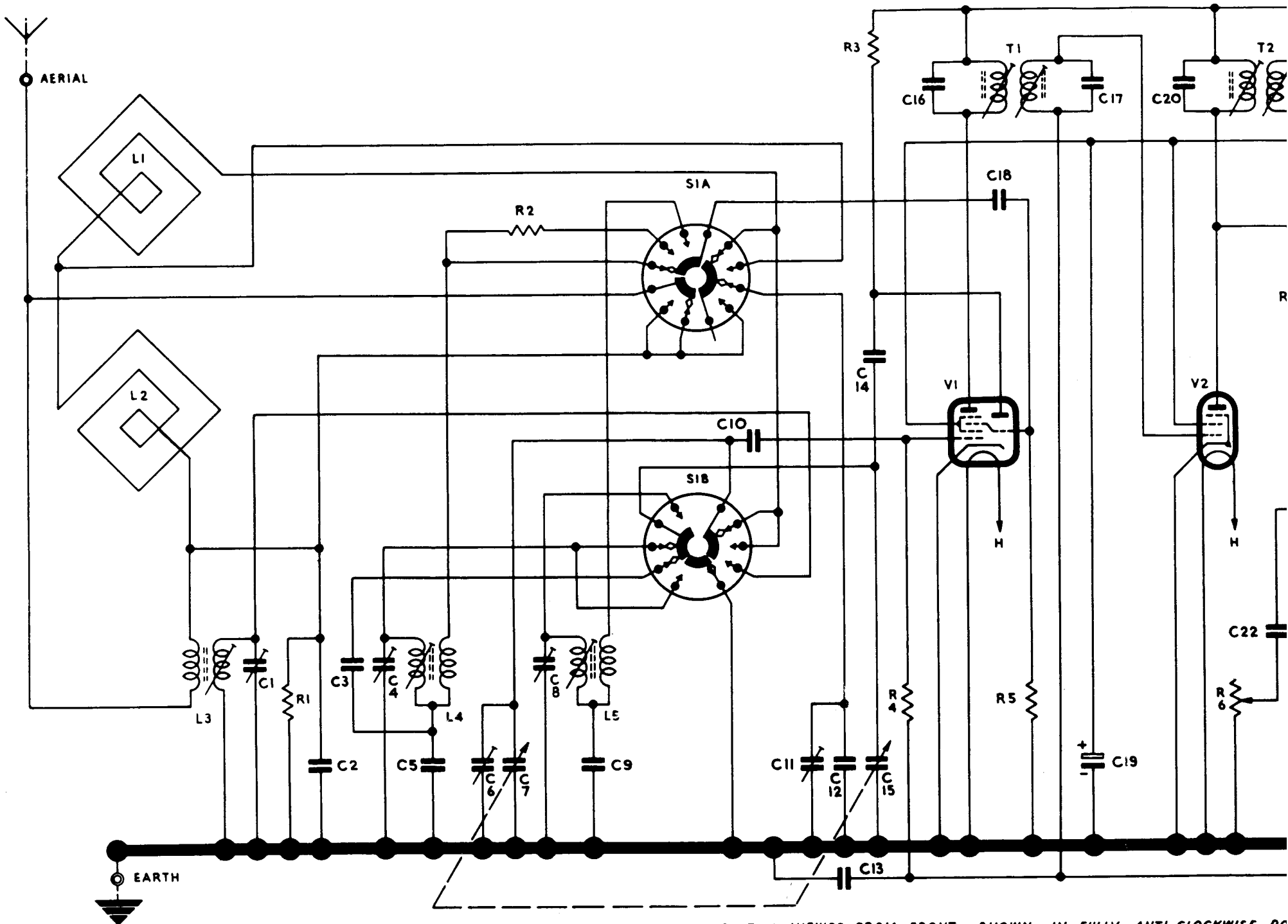
NOTE THE TURNS ROUND THE SPINDLE.

DRIVE CORD VIEWED FROM FRONT OF CHASSIS WITH GANG FULLY CLOSED

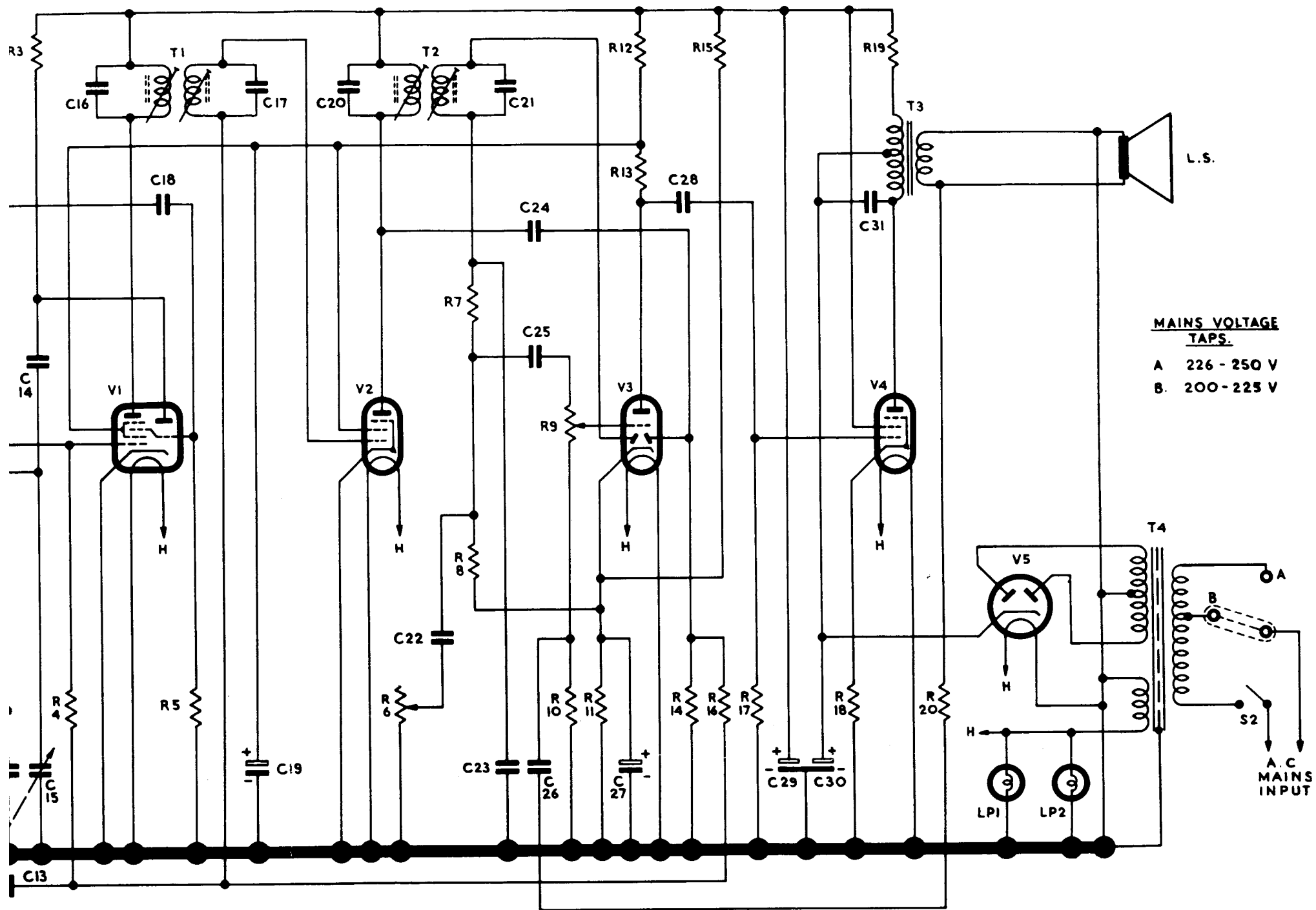
FIG. 5

Notes

- 1 TO REMOVE CHASSIS.
 - (1) Pull off knobs.
 - (2) Unclip Speaker lead from side of cabinet.
 - (3) Remove 4 screws from base of cabinet.
 - (4) Withdraw chassis.
- 2 The Tuning Drive bearings should be lubricated occasionally with a drop of oil, taking care not to allow the oil to touch the drive cord.
- 3 Make sure that the Mains Voltage Selector is in the correct position to ensure maximum valve and component life.
- 4 FITTING A NEW TUNING SCALE.
 - (1) Remove chassis.
 - (2) Place Scale Plate in cabinet aperture and screw clips tightly in position, first making sure that the scale is square with the cabinet aperture.
 - (3) Fit chassis in cabinet.
 - (4) Adjust Gang Condenser to maximum position and make sure that the pointer lines up with the spots at the end of the L.W. and S.W. tracks.



NOTE:- WAVECHANGE SWITCH VIEWED FROM FRONT, SHOWN IN FULLY ANTI-CLOCKWISE PC



**MAINS VOLTAGE
TAPS.**
A 226 - 250 V
B. 200 - 225 V

FROM FRONT, SHOWN IN FULLY ANTI-CLOCKWISE POSITION, I.E. "L.W" POSITION.