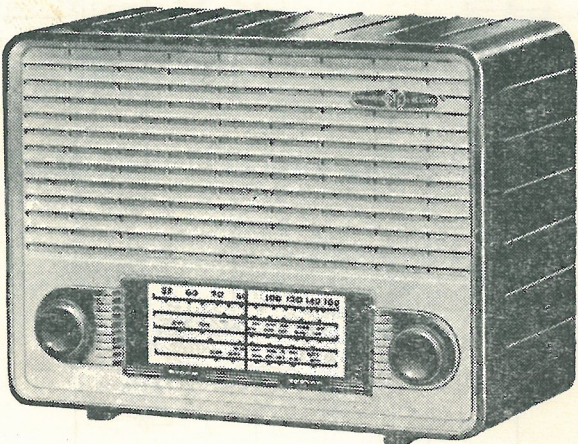


SERVICE SHEET FOR



model **PZ45** + PZ85 ✓
Model "y"



FOR OPERATION OFF
230 VOLT A.C. MAINS

Mains Consumption 37 watts.				A.F. Output 2.2 watts.						
	Valve	Mullard	Ea	Ia	Es	Is	Osc.		Ek	Ik
							Ea	Ia		
V1	Frequency Changer	ECH.42	190	2.5	62	4.4	90	3.0	1.9	9.9
V2	I.F. Amplifier	EF.41	190	4.2	62	1.7	—	—	—	5.9
V3	Det. and A.F. Amplifier	EBC.41	62	0.6	—	—	—	—	—	0.6
V4	Output	EL.41	210	27.5	190	3.5	—	—	4.6	31
V5	Rectifier	EZ.40	Anode to Anode 420 v. A.C.						215	47.4

Note.—All measurements taken with no signal input. Gang fully meshed.
Mains input 230 volts. Measurements taken with an Avometer Model 8 instrument which has a resistance of 20,000 ohms per volt.

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 µF condenser	Gang fully meshed	Iron dust cores of I.F. Transformers T2 and T1
(2) 600 kc/s. between Aerial and Earth Sockets via standard Dummy Aerial	600 kc/s.	Iron dust cores of L9 and L1
(3) As (2) but 1500 kc/s. (200 m.)	1500 kc/s.	Trimmers C16 and C2
(4) Repeat (2) and (3) above until calibration and tracking are correct.		

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CALLAGHAN PRINT, WAIHI

PZ45-PZ85

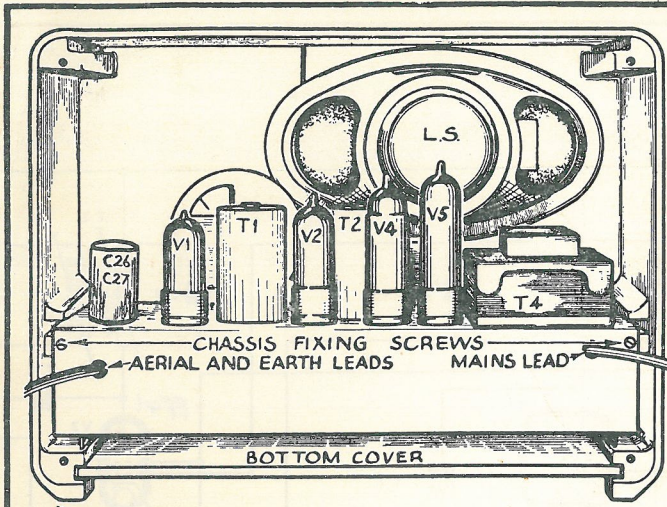


FIG. 1

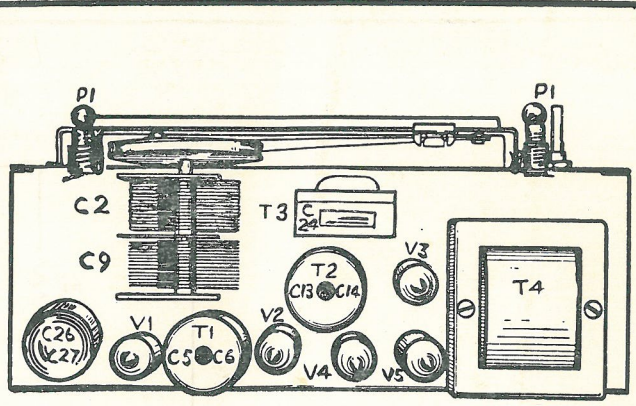
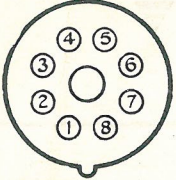


FIG. 2

VALVE BASE CONNECTIONS

	1	2	3	4	5	6	7	8	9
V1	H	AH	AT	G3	G2	G1	K	H	—
V2	H	A	K	K	G2	G1	K	H	—
V3	H	A	G1	—	D1	D2	K	H	—
V4	H	A1	K	—	G2	G1	K	H	—
V5	H	A1	—	—	—	A2	K	H	—
V6	—	H	A1	G	T	A2	H	K	—



VIEW LOOKING AT PINS

FIG. 4

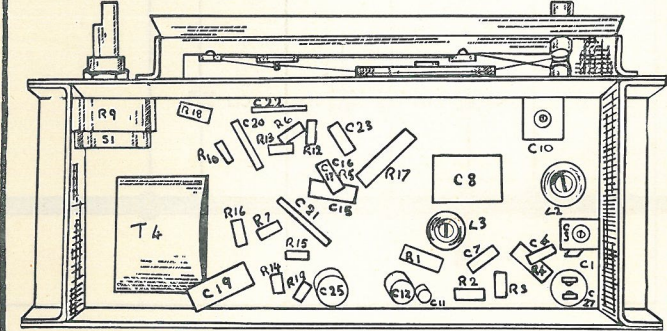
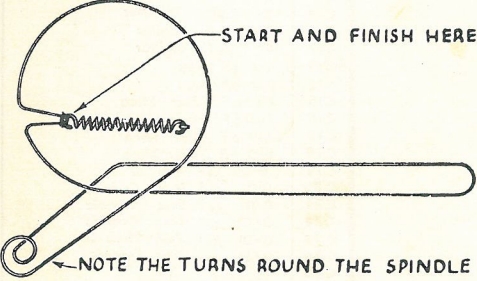


FIG. 3

THE DRIVE CORD SHOULD BE OF NYLON BRAIDED GLASS YARN. LENGTH 25 1/4" BETWEEN CENTRES OF LOOPS

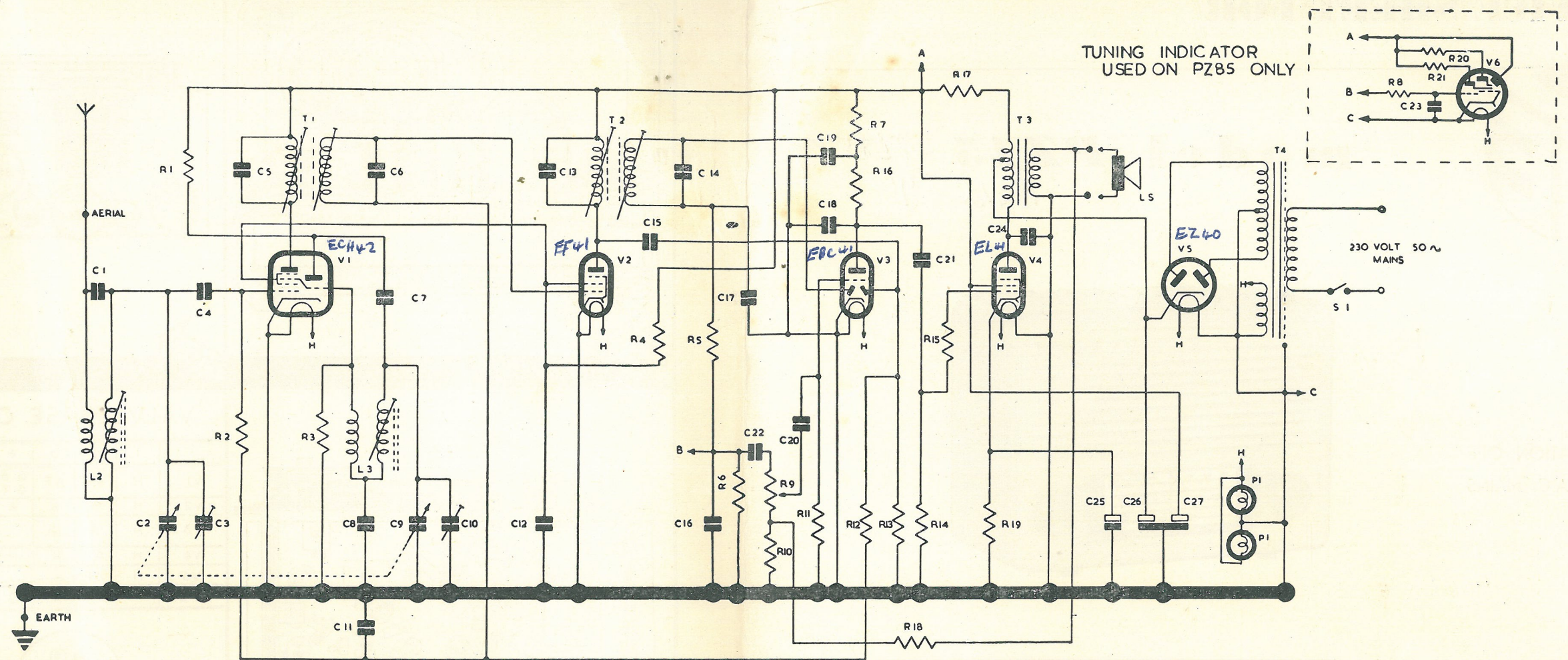


DRIVE CORD VIEWED FROM REAR OF CHASSIS WITH GANG FULLY CLOSED

FIG. 5

Notes

- 1 Access to the bottom of the chassis is obtained by sliding out the bottom cover after removal of the card back, therefore in most cases eliminating the necessity for removing the chassis for servicing.
- 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 TO REMOVE CHASSIS FROM CABINET:
(a) Pull off knobs.
(b) Remove the two Chassis Fixing Screws.
(c) Withdraw Chassis.



circuit diagram of the

PYE MODEL

"Y"

type PZ45

PZ85 (has eye)

CONDENSERS					RESISTORS					INDUCTANCES		
	Specification	Volts		Ref. No.		Ohms	Watts		Ref. No.		Specification	Ref. No.
C1	10 pF Silver Mica		5%	664700	R1	33,000	1	10%	671779	L1	NOT USED	
C2	540 pF Gang Condenser				R2	1.2 meg	1/4	10%	671771	L2	M.W. Aerial coil	MW7A 780257
C3	3-30 pF Trimmer				R3	47,000	1/4	20%	671518	L3	M.W. Oscillator coil	MW9A 780256
C4	100 pF Silver Mica		2%	664101	R4	33,000	1	10%	671779	LS	Loudspeaker	850019
C5	100 pF Mica		2%	666776	R5	47,000	1/4	20%	671622			
C6	100 pF Mica		2%	666776	R6	220,000	1/4	20%				
C7	100 pF Silver Mica		2%	664101	R7	100,000	1/4	20%	671620			
C8	500 pF Silver Mica		2%	664263	R8	2.2 meg	1/4	20%	671628			
C9	540 pF Gang Condenser				R9	1.0 meg potentiometer						
C10	3-30 pF Trimmer				R10	47	1/4	20%	671600	TRANSFORMERS		
C11	0.05 μF Tubular	350		668599	R11	6.8 meg	1/4	20%	671631		Specification	Ref. No.
C12	0.05 μF Tubular	500		668574	R12	1.2 meg	1/4	10%	671771			
C13	100 pF Mica		2%	666776	R13	1.2 meg	1/4	10%	671771			
C14	100 pF Mica		2%	666776	R14	220,000	1/4	10%	671762			
C15	10 pF Silver Mica		5%	664700	R15	10,000	1/4	20%	671614			
C16	100 pF Silver Mica			664101	R16	220,000	1/4	10%	671762	T1	1st. I.F. Trans. { Prim res. 12 Ω } { Sec. res. 12 Ω }	770369
C17	100 pF Silver Mica		2%	664101	R17	1,500	1	20%	671609	T2	2nd I.F. Trans. { Prim res. 12 Ω } { Sec. res. 12 Ω }	770369
C18	100 pF Silver Mica		2%	664101	R18	470	1/4	20%	671606	T3	Output Trans. { Prim res. 450 Ω } { Sec. res. 450 Ω }	770397
C19	0.05 μF Tubular	500		668574	R19	150	1	20%	671565	T4	Mains Trans. { Prim res. 56 Ω } { Sec. res. 160 + 170 Ω }	770807
C20	0.01 μF Disc Ceramic	500		667171	R20	1.2 meg	1/4	10%	671771	VALVES		
C21	0.01 μF Disc Ceramic	500			R21	1.2 meg	1/4	10%	671771		Specification	
C22	0.01 μF Disc Ceramic	500			SWITCHES, LAMPS, ETC.							
C23	0.01 μF Disc Ceramic	500				Specification			Ref. No.			
C24	0.01 μF Disc Ceramic	500										
C25	50 μF	12										
C26	40 μF	350			S1	Mains on/off switch on Volume Control			6045D	V1	ECH42	
C27	40 μF } Electrolytic	350			P1	Dial Lamp 6-BV 0.3 amp				V2	EF41	
NOTE:										V3	EBC41	
* = Part of I.F. transformer.										V4	EL41	
										V5	EZ40	
										V6	EM 34	