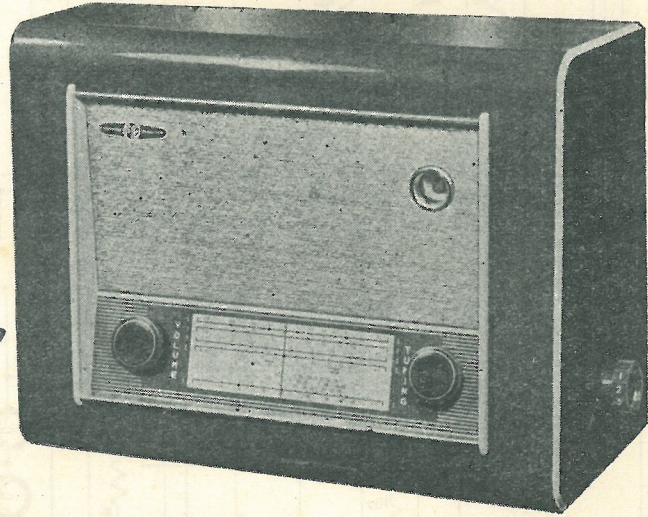


SERVICE SHEET FOR

F.T.C. RADIO SERVICE DEPT. 6.6.55.



model PZ71



FOR OPERATION OFF
230 VOLT A.C. MAINS

angled cabinet →

CIRCUIT ANALYSIS

TRIMMING PROCEDURE

Mains Consumption 25 watts.				A.F. Output 1 watt.							
Valve		Mullard	Ea	Ia	Es	Is	Triode		Eg or Ek	Ik	
							Ea	Ia			
V1	Frequency Changer	ECH.42	197	2.5	66	3.3	77	2.8	-0.5	8.6	
V2	I.F. Amplifier and Diode Det.	EBF.80	197	4.2	66	2.0	—	—	-0.5	6.2	
V3	L.F. Amp. and Output	ECL.80	218	10.2	197	2.8	22	0.6	-7.0	19.6	
V4	Rectifier	EZ.40	Anode to Anode 420 V. A.C.				—	—	224	36.5	

NOTE—All measurements taken with set tuned to 1500 kc/s with no signal input. Mains input 230 volts A.C. Measurements taken with Avometer Model 7 instrument. All voltages over 10 v. taken on 400 v. range. Voltages under 10 v. taken on 10 v. range.

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	Low frequency end of Band 1 Gang fully meshed*	Iron dust cores of T2 and T1
(2) 600 kc/s. (500 metres) between Aerial and Earth leads via Standard Dummy Aerial	Band 1, 600 kc/s.	Iron dust cores of L10 and L2
(3) As (2) but 1,500 kc/s. (200 metres)	Band 1, 1500 kc/s.	Trimmers C27 and C2
(4) Repeat (2) and (3) until Calibration and Tracking are correct		
(5) 2.4 mc/s. (125 metres) between Aerial and Earth leads via 400 ohm Dummy Aerial	Band 2, 2.4 Mc/s.	Iron dust cores of L9 and L1
(6) As (5) but 6.1 mc/s. (49.25 metres)	Band 2, 6.1 Mc/s.	Trimmers C25 and C4
(7) Repeat (5) and (6) until Calibration and Tracking are correct		
(8) As (6)	Band 3, 6.1 Mc/s.	Iron dust cores of L8 and L3
(9) As (6) but 9.6 mc/s. (31.25 metres)	Band 4, 9.6 Mc/s.	Iron dust cores of L7 and L4
(10) As (6) but 15.3 mc/s. (19.6 metres)	Band 5, 15.3 Mc/s.	Iron dust cores of L6 and L5

Note.—* Pointer lined up with spots at end of bands 1 and 5.

PYE (NEW ZEALAND) LIMITED - P.O. BOX 2839 AUCKLAND - NEW ZEALAND

used ECL80
PZ71

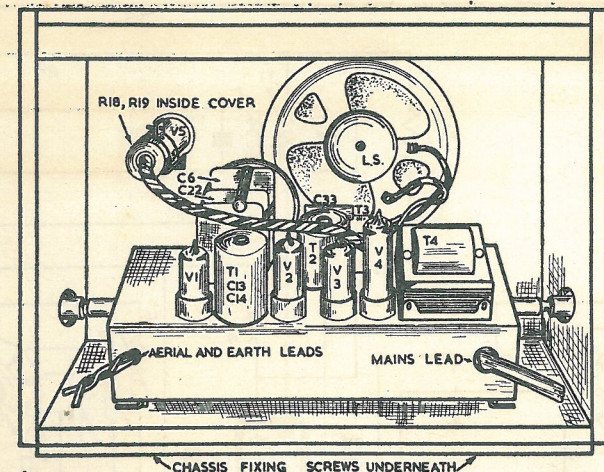


FIG.1

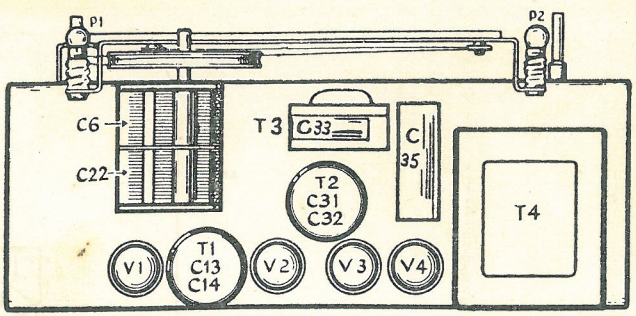
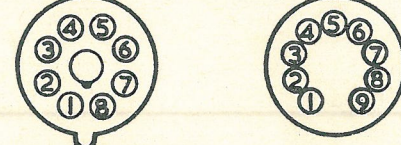


FIG.2

VALVE BASE CONNECTIONS

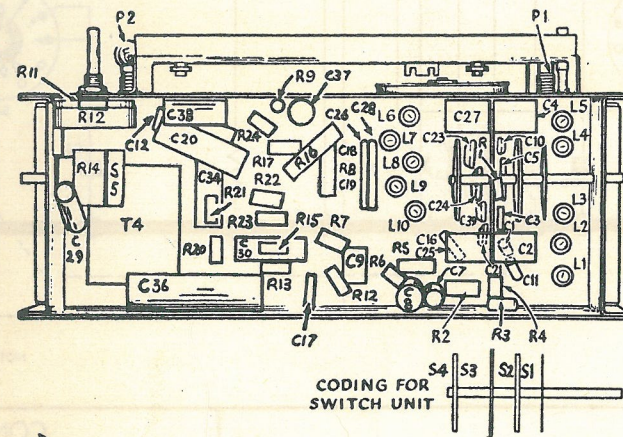
	1	2	3	4	5	6	7	8	9
V1	H	Ah	At	Gt	G2	G1	K	H	—
V2	G2	G1	K	H	H	A	DI	D2	G3
V3	At	Gt	K	H	H	Ap	G3	G2	G1
V4	H	AI	—	—	—	A2	K	H	—
V5	—	H	AI	G	T	A2	H	K	—

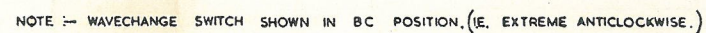
VALVE BASE FOR V1, V4, V5. VALVE BASE FOR V2, V3.



VIEW LOOKING AT PINS.

FIG.3





Note uses ECL80