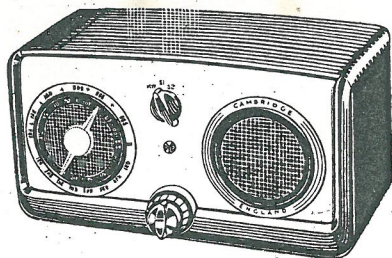


Spt 1955
TRICAL REVIEW
PZ 98U BC only



is readily matched by performance. For this reason, the 5-valve, 3 waveband model should be quickly, even enthusiastically, accepted by the New Zealand market.

The 98U will strongly receive overseas and local programmes on its 3 wavebands, using little power. Unusually high quality reproduction is obtained from a 5 in. permanent magnet loudspeaker fed by the brilliant 5-valve circuit.

This model is fully tropicalized. Its moulded cabinet is available in attractive colours and another excellent feature is its lightness. Weighing only seven pounds, the 98U is easily moved from room to room. Overall size is 11½ in. long, 6 in. high and 5½ in. deep.

But perhaps the best thing about this 5-valve radio is its price. At £19 19s. it will be well within the range of New Zealand families who want good looks, good listening and versatility in their choice. Pye radios are distributed throughout New Zealand by Pye (New Zealand) Ltd., P.O. Box 2839, Auckland.

SERVICE SHEET

PZ98U



Mains Consumption		40 watts.	A.F. Output		1.8 watts.						
Unsmoothed H.T.		175 volts.	Smoothed H.T.		150 volts.						
	Valve	Mullard	Ea	Ia	Es	Is	Osc.		Ek	Ik	
V1	Frequency Changer	UCH.42	150	1.9	68	4.0	103	2.5	—	8.4	
V2	I.F. Amplifier	UF.41	150	5.7	68	1.9	—	—	—	7.6	
V3	Det. and A.F. Amplifier	UBC.41	62	0.2	—	—	—	—	—	0.2	
V4	Output	UL.41	160	37.0	150	7.0	—	—	7.2	44.0	
V5	Rectifier	UY.41	198 V. A.C. on anode							175	60.2

NOTE.—All measurements taken on MW band with Gang fully meshed. No Signal input. Mains input 210 V.A.C. into 200-220 volts tap. 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	Low frequency end of M.W. Band	Iron dust cores of T2 and T1
(2) 600 kc/s. between Aerial lead and Gang condenser mounting bracket via Standard Dummy Aerial	M.W. Band 600 kc/s.	Iron dust cores of L7 and L2
(3) As (2) but 1,500 kc/s.	M.W. Band 1500 kc/s.	Trimmers C21 and C 4
(4) Repeat (2) and (3) until Calibration and Tracking are correct		
(5) As (2) but 4 mc/s. (75 metres)	S.I. Band 75 metres	Iron dust cores of L6 and L3
(6) As (2) but 9.6 mc/s. (31.25 metres)	S.I. Band 31.25 metres	Trimmer C5
(7) Repeat (5) (L3 only) and (6) until Tracking is correct		
(8) As (2) but 11.8 mc/s. (25.4 metres)	S.2 Band 25.4 metres	Iron dust cores of L5 and L4
(9) As (2) but 21.6 mc/s. (13.9 metres)	S.2 Band 13.9 metres	Trimmer C9
(10) Repeat (8) (L.4 only) and (9) until Tracking is correct.		

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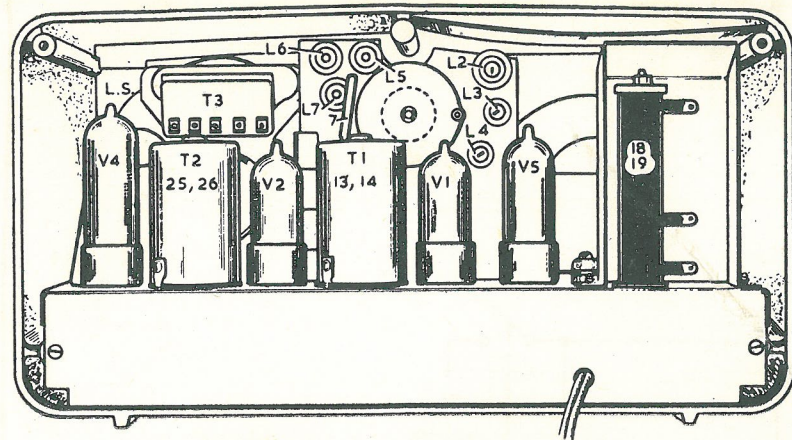
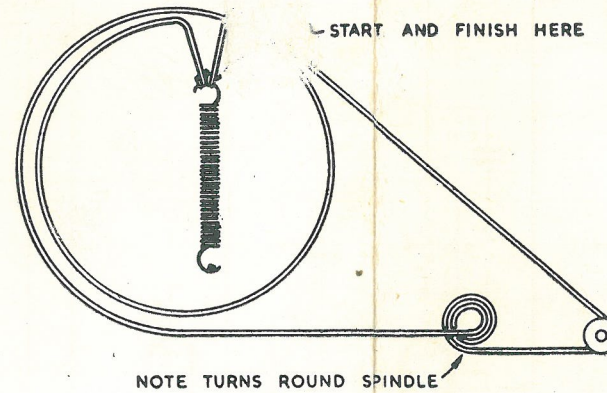


FIG. 1

DRIVE CORD VIEWED FROM FRONT OF CHASSIS WITH GANG FULLY CLOSED



THE DRIVE CORD SHOULD BE OF NYLON BRAIDED GLASS YARN. LENGTH $30\frac{1}{2}$ BETWEEN CENTRES OF LOOPS.

FIG. 2

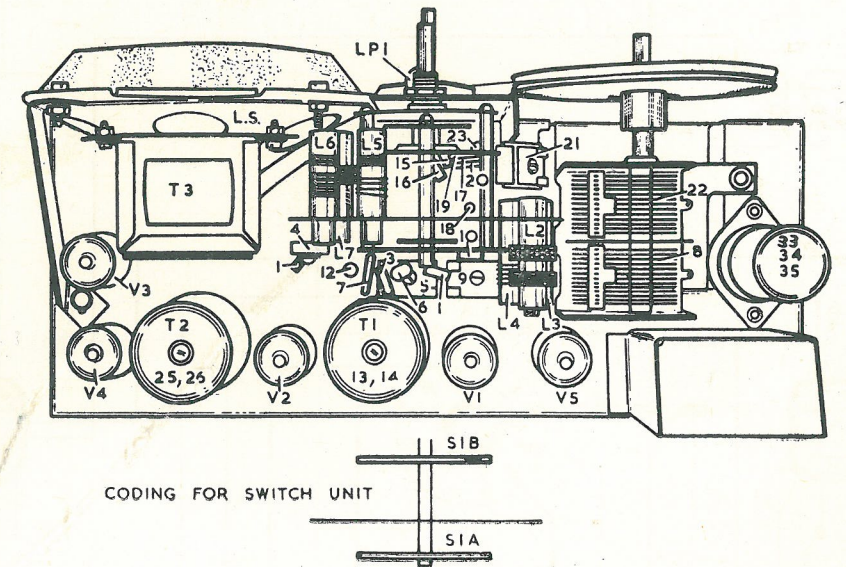
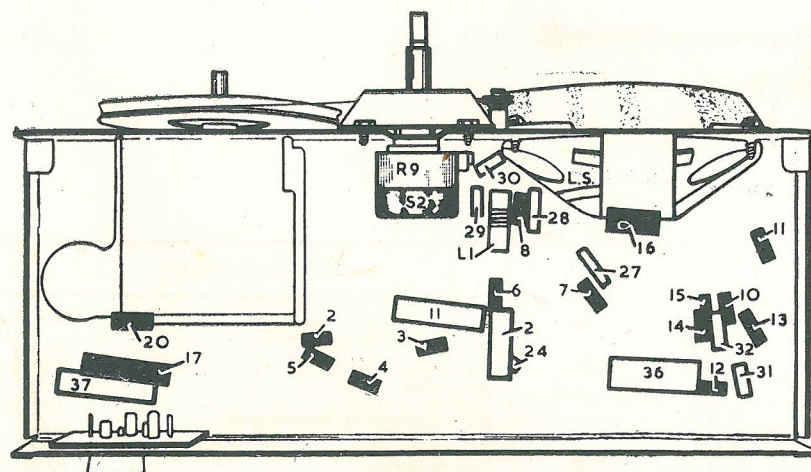


FIG. 3



NOTE: RESISTORS SHOWN BLACK

FIG. 4

Notes

- 1 The Tuning Drive Spindle and Pulley should be lubricated occasionally with a drop of graphite oil taking care not to allow the oil to touch the drive cord.
- 2 **INDICATOR BULB REPLACEMENT.** 6 v. 0.04 A. (11 mm.). To remove the indicator lamp the chassis must first be removed from the cabinet.

To Remove Chassis

- 1 Disconnect the receiver from the mains supply.
- 2 Pull off pointer.
- 3 Pull off all knobs.
- 4 Remove the card back.
- 5 Remove the two chassis fixing screws.
- 6 Withdraw chassis, first unclipping lead from plate aerial.

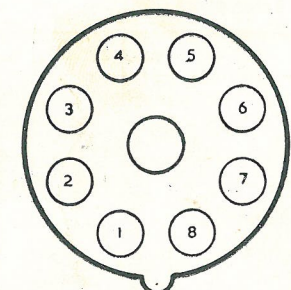
Important

Note that, unlike many AC/DC receivers, this receiver employs a chassis isolated from the mains circuit, so that there is no danger in touching it. For this reason the following safety precautions are necessary when the set has been serviced:—

- 1 Check that no connection whatsoever, other than the one shown in the circuit diagram, is made to the chassis.
- 2 Check that the Drive Drum Insulating Spindle and Washer are firmly in position. (Note.—Replacements for these items must be identical in size and material.)
- 3
- 4 The receiver must be capable of withstanding a flash test of 1,000 volts R.M.S. 50 c/s for one minute between chassis and both mains leads joined together, with the on/off switch 'on'.

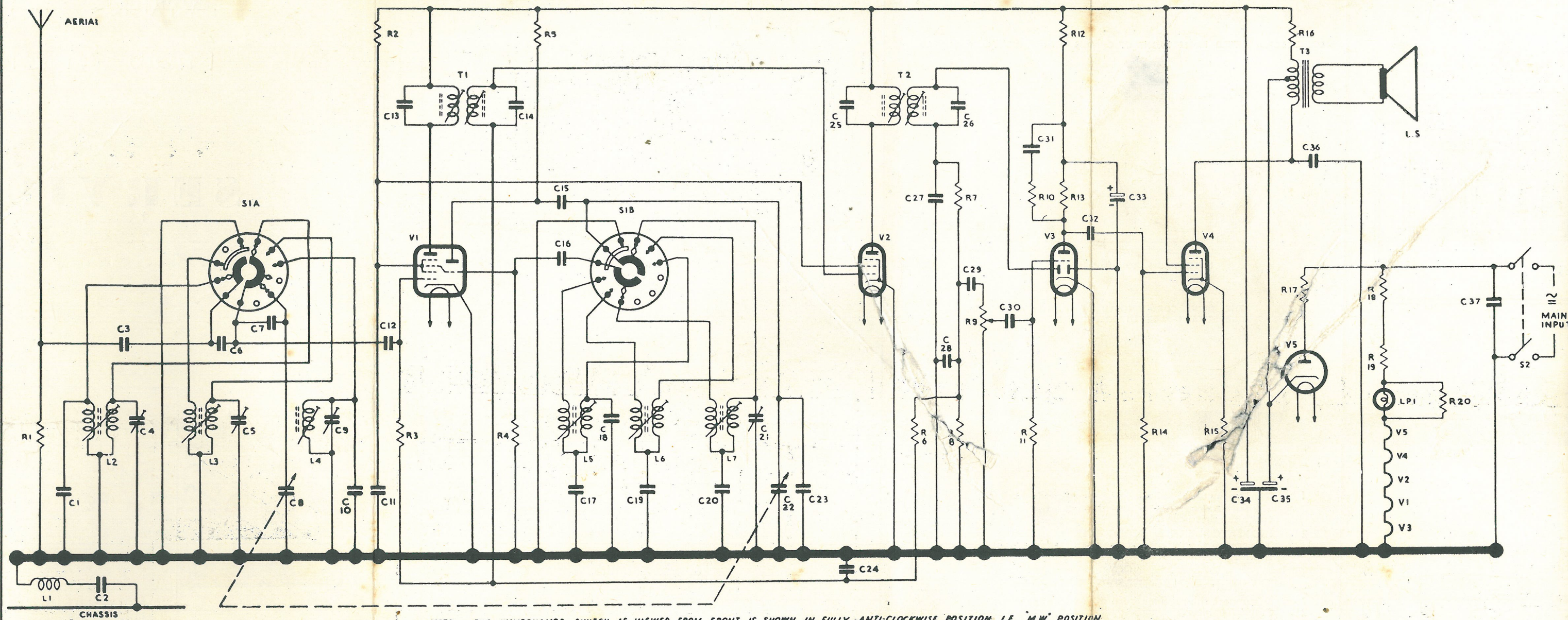
VALVE BASE CONNECTIONS

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



VIEW LOOKING AT PINS

FIG. 5



CONDENSERS (cont'd)										RESISTORS										INDUCTANCES										TRANSFORMERS									
±	Fig.	No.	Specification		Volts	±	Fig.	No.		Ohms		Watts	±	Fig.	No.		Specification		Ref.	Fig.	No.		Specification		Fig.	No.													
10%	3	666515	C20	510 pF Mica		2%	3	664262	R1	1-5 meg.		20%	3	670411	L1	Filter Coil					4	079007	T1	1st I.F. Trans.	{ Prim. 10 Ω Sec. 10-8 Ω }	1 & 3	770369/A												
	4	669135	C21	3-50 pF Trimmer			3	800076	R2	15,000		20%	4	670399	L2	M.W. Aerial Coil	M.W.7	1 & 3	780246		1 & 3	780338	T2	2nd I. F. Trans.	{ Prim. 10 Ω Sec. 10-8 Ω }	1 & 3	770369/A												
	3		C22	528 pF Swing Gang Condenser			3	800227	R3	1 meg.		20%	4	670410	L3	S1 Aerial Coil	M.S.W.4	1 & 3	780279		1 & 3	781205	T3	Output Trans.	{ Prim. Start to Tap 12 Ω Prim. Start to Finish 210 Ω }	1 & 3	{ Bobbin Type 770069 Former Type 077063 }												
			C23	22 pF Ceramic	150	5%	3	650175	R4	82,000		20%	4	671047	L4	S2 Aerial Coil	S.W.2	1 & 3	781205																				
			C24	0-01 μF Tubular			4	669082	R5	15,000		10%	4	670532	L5	S2 Osc. Coil	S.W.30	1 & 3	781192																				
			C25*	100 pF Mica		2%	1 & 3	666776	R6	1 meg.		20%	4	670410	L6	S1 Osc. Coil	M.S.W.9	1 & 3	780234																				
	3	800076	C26*	100 pF Mica		2%	1 & 3	666776	R7	100,000		20%	4	670408	L7	M.W. Osc. Coil	M.W.1	1 & 3																					
	3	800076	C27	100 pF Ceramic		20%	4	666806	R8	470,000		20%	4	810308																									
20%	3	666800	C28	100 pF Ceramic	150	20%	4	666806	R9	1 meg. Volume Control		10%	4	670534																									
5%	1 & 3	663339	C29	0-01 μF Tubular	150		4	669082	R10	22,000		20%	4	670416																									
	3	800227	C30	0-01 μF Tubular	150		4	669082	R11	10 meg.		20%	4	670398																									
	3	800076	C31	0-005 μF Tubular	350		4	669095	R12	10,000		20%	4	670407																									
20%	3	666802	C32	0-01 μF Tubular	350		4	669096	R13	330,000		20%	4	670410																									
	4	669116	C33	15 μF	350		4		R14	1 meg.		20%	4	670434																									
20%	3	666806	C34	30 μF					R15	220		10%	4	674316																									
2%	1 & 3	666776		Electrolytic	350		3		R16	1,500		10%	4	674317																									
20%	3	666809	C35	30 μF					R17	180		10%	4																										
20%	3	666804	C36	0-005 μF Tubular	1,000		4	669154	R18	900		18	5%	1	674424																								
2%	3	663648	C37	0-01 μF Tubular	300		4	669135	R19	260		20%	4	670346																									
10%	3	666884			A.C.				R20	47																													
5%	3	663407																																					
NOTE.—* Integral part of I.F. Transformer.																																							

Cabinet Escutches	Scale Rins	Pointer Knob (Voc)	Pointer Knob (Tun)	Pointer Knob Spr	Insulating Insulation	Scale Rins	Grille (Fin)	Grille (Pl)
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NOTE.—* Integral part of I.F. Transformer.

SWITCHES, LAMPS, ETC.									
Specification	Fig.	No.	Specification	Fig.	No.	Specification	Fig.	No.	Specification
S1A Front Bank 2. Aerial Section	3	083019	Wavechange Switch	3 position					
S1B Front Bank 1. Osc. Section	4	810308							
S2 ON/OFF Switch on Volume Control	3	700511							
LPI Dial Lamp 6 V. 0-04 A. (11 mm.)	1, 3 & 4								
LS Loudspeaker 5 inch P.M.									

Cabinet
Escutcheon
Scale Ring
Pointer
Knob (Vo
Knob (Tu
Pointer S
Insulating
Scale Ring
Grille (Fi
Grille (Pi