

"HIS MASTER'S VOICE"

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E.M.I. (AUSTRALIA) LIMITED

(INCORPORATED IN N.S.W.)

6 PARRAMATTA ROAD HOMEBUSH, N.S.W.

SPECIFICATIONS

POWER SUPPLY: 240, 250 volts, A.C., 50 c/s. CONSUMPTION:

170 watts.

AERIAL INPUT: 300 ohms balanced.

INTERMEDIATE FREQUENCIES:

Vision Carrier: 36.875~Mc/s. Sound Carrier: 31.375~Mc/s.

FUSES

Mains: 1.5 amp. H.T.: 1.5 amp.

VALVE & DIODE COMPLEMENT

V1	6ES8	RF Amplifier					
V2	6HG8	Frequency Changer					
V3	6EH7	1st IF Amplifier					
V4	6X9	2nd IF Amplifier and Noise Detector					
V5	6Y9	Video Amplifier and AGC					
V6	6V9	Sync. Separator and Amplifier					
V7	6BX6	Limiter					
V8	6GW8	Sound Amplifier and Output					
V9	6GV8	Vertical Oscillator and Output					
V10	6JW8	Reactance Valve and Hori-					
V10	03 44 9	zontal Oscillator					
V11	6CM5	Horizontal Output					
V12	152	EHT Rectifier					
V13	6AL3	Damper Diode					
MR1	0A90	Video Detector					
MR2	0A210	HT Rectifier					
MR3	0A210	HT Rectifier					
MR4	M3	AGC Clamp					
MR5	AA119	Ratio Detector					
MR6	AA119	Ratio Detector					
MR7	BA100	Vertical Sync. Diode					
MR8	OA202	Blanking Clamp					
MR9	BA100	Phase Discriminator					
		Phase Discriminator					
MR10	BA100	Phase Discriminator					

CAUTION

The normal B+ voltages in these receivers are dangerous. Use extreme caution when servicing. The high voltage at the picture tube anode (17,000 volts) will give an unpleasant shock but does not supply enough current to give a fatal shock. However, secondary human reactions to otherwise harmless shocks have been known to cause injury.

Always discharge the picture tube anode to the chassis or to its aquadag coating, before handling the tube. The picture tube is highly evacuated and, if broken, it may violently expel glass fragments. When handling the picture tube, always wear goggles.

PART No. 683-5301

DISMANTLING

PS AND PT CHASSIS

TO SWING DOWN CHASSIS

- Slacken wing nuts at top of chassis and swing rods aside.
- 2. Slacken wing nut securing tuner bracket to main chassis and swing chassis down.

TO REMOVE TUNER

- 1. Swing chassis down.
- 2. Pull off channel selector knob.
- 3. Remove screw at left side of tuner.

Tuner may now be attached to chassis, by reinserting slot in tuner bracket under wing nut, and hooked section on tuner bracket, into special slot provided in chassis.

TO REMOVE CHASSIS AND TUNER FROM CABINET

- 1. Swing chassis down and remove tuner.
- 2. Fix tuner to chassis.
- 3. Unplug yoke, speaker and EHT leads.
- 4. Raise chassis to approximately 45° and withdraw from pivot brackets.

TO REMOVE **PS** CHASSIS AND CRT FROM CABINET

Pull off channel selector knob.

- Unscrew the two self-tapping screws fixing the bottom of the escutcheon to the cabinet supports: Access to these screws is through holes provided in rubber feet.
- 3. Remove the two top CRT fixing screws.
- Remove four screws fixing cabinet to base board.
- 5. Remove cabinet by drawing forward from the base board.

TO REMOVE **PT** CHASSIS AND CRT FROM CABINET

- 1. Swing chassis down.
- Unplug speaker and disconnect earthing braid from right-hand chassis securing rod.
- Remove two top CRT fixing screws and two screws securing chassis board to cabinet.
- 4. Return chassis to normal position and secure with wing nuts.
- 5. Remove screw at left-hand side of tuner.
- 6. Pull off channel selector knob.
- 7. Withdraw chassis and CRT from cabinet.

PU CHASSIS

TO SWING CHASSIS DOWN

- Remove back.
- 2. Swing chassis down.

TO REMOVE TUNER

- Pull off channel selector, picture, sound and set black knobs.
- Slacken wing nut under tuner chassis assembly.
- Unscrew captive screw at top of tuner bracket and withdraw tuner assembly.
- 4. Tuner may be hooked to left side of main chassis by dropping tongue on tuner

bracket into slot provided. Slide tuner forward and tighten self-tapping screw.

TO REMOVE CHASSIS AND TUNER

- Unplug yoke, picture tube, speaker and EHT leads.
- 2. Tilt chassis to approximately 45° and lift clear of pivots.

TO REMOVE PICTURE TUBE

- 1. Remove chassis and tuner as above.
- 2. Remove four screws securing picture tube and lift out.

ADJUSTMENTS

MAINS VOLTAGE. Before leaving the factory, the mains input is set to the 240-volt tap on the transformer. A 250-volt tap is also provided for use where necessary. To make the alteration, withdraw the plug and fuse on the black lead from the holder marked "240V" on the rear of the mains transformer. Remove rubber bung from "250V" fuse holder and insert the fuse and plug in this position. Insert rubber bung into "240V" socket.

HORIZONTAL HOLD. This is set at the factory and normally should not need further adjustment. However, after change of components it may be necessary to re-adjust. The procedure is as follows:

- Short between cathodes (+) of phase discriminator diodes MR9 and MR10.
- (2) Adjust the horizontal hold potentiometer for +2 volts, using a VTVM across C85.
- (3) Adjust the core of the horizontal oscillator coil, L33, for "floating" sync.
- (4) Remove the short from diodes and remove incoming sync. by bridging R101.
- (5) Adjust discriminator balance control RV9, for "floating" sync.
- (6) Remove bridge from R101.

CONTRAST RANGE. This control may be adjusted by inserting a thin screwdriver into the shaft of the "Picture" control, after removing the knob.

Set the "Picture" control to the extreme anti-clockwise position. The "Set Black" control should be turned up to give sufficient brightness on the screen to be able to observe a weak picture. Adjust the "Contrast Range" control so that the picture just disappears, after going out of lock. Advance the control until the picture re-appears and just locks in. Re-set the "Set Black" control.

SET BLACK. To adjust the "Set Black" control, select the strongest signal. Turn "Picture" control fully anti-clockwise. Then adjust the brightness until **only** the darkest parts of the picture are black. The "Picture" control may then be advanced to raise the highlights of the picture to the required level.

A.G.C. The pre-set AGC control should be set, when necessary, to the weakest signal, i.e., that displaying the most "snow" or grey to white flecks in the picture. Adjust the control to the position which just reduces the snow to a minimum.

BOOST VOLTAGE. The boost voltage may be adjusted, where necessary, by means of the pre-set control adjacent to the line output transformer. Access to this control is easier from the reverse side of the chassis, when it has been swung down.

Reduce the picture tube beam current to zero, by means of the "Set Black" control. The voltage, measured **across** C109 (.047 uF) should be adjusted to 510 volts, which assures optimum picture width and EHT voltage. Re-set the "Set Black" control.

Note: Do not use a meter protected with silicon diodes, as this gives a rectifying effect and results in an incorrect reading.

FOCUS. The only time that focus adjustment may be necessary is after replacement of the picture tube. The focus potentiometer which is a strip pre-set type, is located on the edge of the chassis and adjacent to the EHT rectifier socket and is accessible when the chassis is swung down. Adjust for optimum overall focus across the picture tube face.

Note: Before adjusting either vertical or horizontal linearity, the picture shift magnets should be neutralised. To do this, the two magnets should be rotated with respect to each other. The neutralised setting is such that, when the complete assembly is rotated, it has little effect on the picture position.

After adjustment has been made for best linearity, the picture may need to be recentred. The linearity should be re-touched where necessary.

VERTICAL LINEARITY. The vertical linearity pre-set potentiometer RV8, is located adjacent to the 6GV8 vertical oscillator and output valve. RV8 should be adjusted, in conjuncion with the vertical height control, for best linearity, using a pattern on the screen.

HORIZONTAL LINEARITY. The horizontal linearity coil is situated adjacent to the EHT rectifier, and may be adjusted from the side of the chassis.

The slug should be adjusted for best linearity, using a pattern on the screen. Two positions of the slug provide suitable conditions, but the position in which the slug is farthest out of the coil is the correct one. Re-adjustment of the boost control and interlocking adjustments may be necessary if the other position of the slug is used.

PICTURE CENTRING. The picture may be centred by rotating the two shift magnets on the tube neck, behind the deflection yoke. Rotate the centring magnet assembly to shift the picture in the required direction, and move one of the magnets with respect to the other, to change the strength of the field, and so the amount of picture shift.

PICTURE TILT. If the picture is not square with the edges of the mask, loosen the clamping ring on the deflection coils and rotate the assembly until the picture is squared up. Tighten the clamping ring and, if necessary, re-centre the picture.

SERVICE NOTE:

These receivers have a number of regulating devices, such as voltage dependent resistors and diodes, which are designed to correct departures from mean operating conditions.

In fault tracing, a certain amount of masking of the true cause occurs and defective parts or incorrect operation may be difficult to isolate.

Servicemen are therefore advised to consider carefully any substitution of components or diagnosis of faults, before making adjustments, and so avoid unnecessary complications in repairs.

SOUND I.F. ALIGNMENT

The following equipment is necessary:

- (i) An RF Oscillator, capable of being set accurately to 5.5 Mc/s.
- (ii) A 20,000 ohms/volt multimeter.
- (iii) A peak-to-peak detector, as shown in Fig. 1.

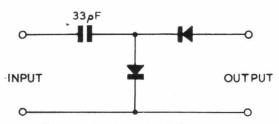


Fig. 1. Peak-to-Peak-Detector.

5.5 MC/S, TRAP (IFT3)

IFT3 is a combined 5.5 Mc/s null trap and sound take-off transformer. This is set at the factory and normally should not need further adjustment.

Should it be necessary to re-tune IFT3, the following method is recommended.

- (1) Inject 5.5 Mc/s at approximately 100 mV, between the junction of L29 and MR1, and earth.
- (2) Connect the input of the peak-to-peak detector to the CRT cathode, pin 7. Connect the output of the peak-to-peak detector to a multimeter, set to a low DC voltage range.
- (3) Remove both cores from former. Screw in primary core (furthest from chassis) to give a minimum reading.
- (4) Screw in secondary core until meter reading rises slightly, and then adjust primary core until a new minimum is obtained.
- (5) Repeat adjustment of primary and secondary until meter reads zero.

RATIO DETECTOR TRANSFORMER (IFT4)

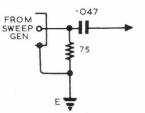
Connect the 5.5 Mc/s oscillator as in (1) above. Connect the multimeter between the junction of R67 and R68, and earth. Adjust the secondary core (nearest chassis) so that a positive or negative reading is obtained. Adjust the primary so that this reading shows a maximum. Then adjust the secondary for zero reading. This adjustment may also be done by using an off air signal.

VISION I.F. ALIGNMENT

The following equipment is necessary:

- (i) A sweep generator, covering the range 28 to 40 Mc/s.
- (ii) A marker generator, covering the same range.
- (iii) A C.R.O.

These instruments should be interconnected as described in the instructions supplied with the sweep generator. This generator should be terminated with a resistor equal to the output impedance, and connected to the receiver as shown in Fig. 2.



E-EARTH OF CIRCUIT INTO WHICH SIGNAL IS BEING INJECTED.

Fig. 2.

Because of the high gain of the receivers, care should be taken to ensure that all components replaced are on short leads and

placed in exactly the same position as the original part.

Care must also be taken to avoid feedback in interconnecting leads of the alignment equipment.

NOTE (1): Throughout the alignment, the display should be adjusted so that the response is accurately set between the reference level and the base line, from a signal of about 2 volts peak-to-peak. The output of the IF strip should be maintained at that level by varying the output from the sweep generator and not the gain of the display unit.

NOTE (2): Coupling between stages will not require adjusting, unless either IFT1 or IFT2 has been replaced.

NOTE (3): Cores in L21, L22, L24, L27, IFT1 and IFT2 are set in the position furthest from the chassis.

Cores in L20, L23 and L26 are set in position nearest the chassis.

OPERATION 1.

- (a) 'Connect a bias supply of 9 volts across the IF AGC smoothing capacitor C51.
- (b) Connect the display unit across C40a.
- (c) Remove cores from L21, L24 and L27.

OPERATION 2.

- (a) Using the termination network as shown in Fig. 2, connect sweep output between pin 3 of V4 and earth.
- (b) Adjust the cores of L26 and IFT2 to obtain the response of Fig. 3, Stage 1.
- (c) If IFT2 has been replaced, it will be necessary to adjust the coupling, by closing the spacing of the two windings of IFT2, until the desired bandwidth is achieved.
- (d) If a dip appears in the response, remove it by adjusting the core in L23.

OPERATION 3.

(a) Remove the sweep from V4 and connect between pin 2 of V3, and earth.

- (b) Adjust the cores of L23 and IFT1 to obtain the response of Fig. 3, Stage 2.
- (c) If a dip appears in the response, remove it by adjusting the tuner IF core.
- (d) If IFT1 has been replaced, it will be necessary to adjust the coupling, by closing the spacing of the two windings of IFT2, until the desired bandwidth is achieved.

OPERATION 4.

- (a) Remove the sweep from V3 and connect it to the IF test point on tuner, located adjacent to V2. Switch tuner to the position between Channel 11 and 0.
- (b) Adjust the core in L11 (IF output coil, adjacent to V2) and L20, to obtain the response of Fig. 3, Stage 3

OPERATION 5.

- (a) Insert a core in L24 and adjust to a minimum at 38.375 Mc/s. If necessary, adjust the spacing between L23 and L24, to ensure that the response at 38.375 Mc/s is at least 50 dB below peak response. To measure this, increase the sweep generator output by 30 dB. Re-set the base line with the vertical shift control if necessary, and the 20 dB will represent the 50 dB point required below the reference level.
- (b) Adjust the core in L22 to read a minimum at 29.875 Mc/s.
- (c) Insert a core in L27 and adjust until a small plateau appears in the response at 32.8 Mc/s.
- (d) Insert a core in L21 and adjust the tuning and, if necessary, the spacing between L21 and L20, so that the response at 31.375 Mc/s is 22 dB below peak response. Fig. 3, Stage 4.
- (e) Remove the bias supply and check that the response curve remains substantially unchanged.
- (f) Seal the coils of L21, L24 and L27 with a light application of cellulose adhesive.

NOTE: The noise detector response as shown dotted in Fig. 3, Stage 4, automatically should be correct. However, if it is desired to check it, the following procedure should be adopted:

Leave the sweep connected as in Operation 4. Disconnect the display from across

C40a and connect it between the junction of R58 and C52, and earth. Remove V5 and V6 from their sockets. The response as shown dotted in Fig. 3, Stage 4, should be obtained.

If the level is not the same as the IF response curve, the coupling between L26 and L27 should be adjusted, until this is obtained.

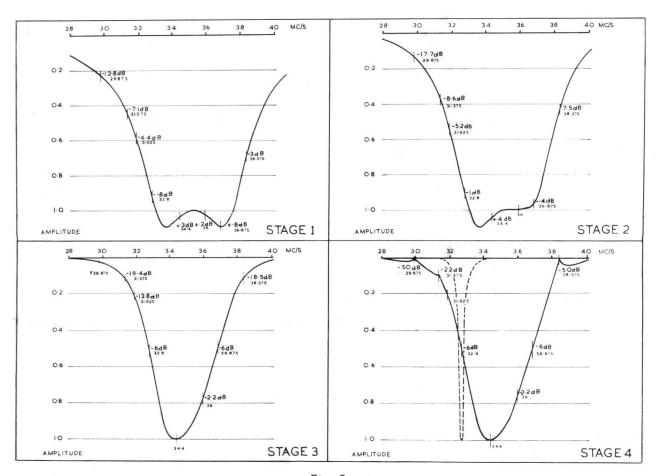
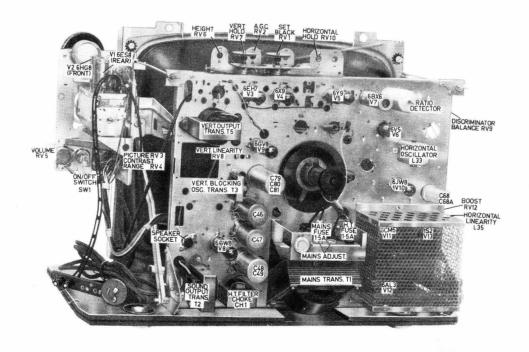
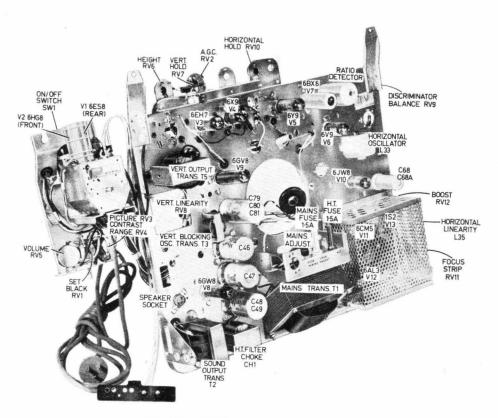


Fig. 3



REAR VIEW - MODELS PS & PT



REAR VIEW - MODEL PU

PARTS LIST ... PS, PT, PU

REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION	
RESISTORS			RESISTORS (Continued)			
R20	740-0322	1.2K 10% ½W	R76	740-0512	100K 20% ½W	
R21	749-0142	1K 20% 2W	R77	740-0512	100K 20% ½W	
R22	742-0302	6.8K 10% ½W	R78	742-0802	4.7K 20% 1W	
R23	740-0983	22 ohms 10% ½W Morganite	R79	740-0653	100 ohms 10% ½W Morganite	
R24	740-0653	100 ohms 10% ½W Morganite	R80	740-0062	3.9K 10% ½W	
R25	742-0712	2.2K 20% 1W	R81	750-0062	3.9K 10% PF4	
R26	740-0102	22K 10% ½W	R82	742-0342	330K 20% 1W	
R27	740-0412	820 ohms 10% ½W	R83	742-0142	270K 10% 1W	
R28	740-0273	150 ohms 10% ½W Morganite	R84	742-0212	3.3M 10% 1W	
R29	740-0822	33K 20 % ½W	R85	742-1122	750K 5% 1W	
R30	740-0792	8.2K 10% ½W	R86	740-0822	33K 20% ½W	
R31	742-0012	1.2K 10% 1W	R87	742-0592	2.2M 20% 1W	
R32	742-0712	2.2K 20% 1W	R88	740-0232	39K 10% ½W	
R33	740-0102	22K 10% ½W	R89	740-1422	4.7K 20% ½W	
R34	740-0862	18K 10% ½W	R90	740-0822	33K 20 % ½W	
R35	740-0042	2.7K 10% ½W	R91	742-0592	2.2M 20% 1W	
R36	Part of	2.7K 10% 1W. Former for Equalis-	R92	742-0823	270 ohms 10% 1W Morganite	
	259-1261	ing Coil	R93	740-0582	47K 20% ½W	
R37	740-0572	1K 20% ½W	R94	740-0032	2.2K 10% ½W	
R38	740-0922	330 ohms 10% ½W	R95	742-0603	470 ohms 10% 1W	
R39	750-0702	2.7K 5% PF7	R96	740-0132	82K 10% ½W	
R40	740-0773	39 ohms 10% ½W Morganite	R97	740-1243	6.8 ohms 10% ½W Morganite	
R41	740-0122	47K 10% ½W	R98	740-1243	6.8 ohms 10% ½W Morganite	
R42			R99	742-0352	1M 20% 1W	
R43	740-0362	390K 10% ½W	R100	742-0402	150K 20% 1W	
R44	740-0622	470K 20% ½W	R100a	740-0512	100K 20% ½W	
R45	740-0272	150 ohms 10% ½W	R101	740-0242	33K 10% ½W	
R46	740-0272	150 ohms 10% ½W	R102	742-0582	120K 10% 1W	
R47	750-0682	300 ohms 10% PW5	R103	740-0322	1.2K 10% ½W	
R48	740-0802	1.8M 10% ½W	R104	740-0732	12K 10% ½W	
R49	742-0592	2.2M 20% 1W	R105	740-0142	100K 10% ½W	
R50	742-0192	1M 10% 1W	R106	740-0852	560K 10% ½W	
R51	742-0732	1.8M 10% 1W	R107	740-0852	560K 10% ½W	
R52	742-0432	18K 10% 1W	R108	742-0432	18K 10% 1W	
R53	742-0062	27K 10% 1W	R109	742-0372	22K 20% 1W	
R54	740-0773	39 ohms 10% ½W Morganite	R110	740-0382	6.2K 10% ½W	
R55	742-0582	120K 10% 1W	R111	740-0592	22K 20% ½W	
R56	742-0392	47K 20% ½W	R112	742-0172	470K 10% 1W	
R57	740-0812	3.3K 20% ½W	R113	742-0072	33K 10% 1W	
R58	742-0592	2.2M 20% 1W	R114	740-0062	3.9K 10% ½W	
R59	740-0532	1M 20% ½W	R115	740-0102	22K 10% ½W	
R60	742-0352	1M 20% 1W	R116	742-0062	27K 10% 1W	
R61	742-0332	15K 20% 1W	R117	742-0072	33K 10% 1W	
R62	742-0372	22K 20% 1W	R118			
R63	740-0512	100K 20% ½W	R119	742-0192	1M 10% 1W	
R64	740-0822	33K 20 % ½W	R120	742-0192	1M 10% 1W	
R65	740-0612	10K 20% ½W	R121	750-0362	2.7K 10% PW5	
266	742-0392	47K 20% 1W	R122	740-0572	1K 20 % ½W	
R67	740-0112	27K 10% ½W	R123	742-0562	470K 20% 1W	
R68	740-0122	27K 10% ½W	R124	742-0562	470K 20% 1W	
R69	740-0612	10K 20% ½W	R125	742-0562	470K 20% 1W	
R70	740-0612	10K 20% ½W	R126	961-0921	0.5 ohm resistance wire	
R71	740-0582	47K 20% ½W	R127	742-0102	82K 10% 1W	
R72	740-0702	56K 10% ½W	R128	742-0102	82K 10% 1W	
R73	742-0452	220K 20% 1W	R129	742-0192	3.3M 20% 1W	
R74	740-0252	1.5K 10% ½W	R130	750-0602	22 ohms 10% PW5	
R75	740-0292	270 ohms 10% ½W	R131	740-1043	27 ohms 10% ½W Morganite	

PARTS LIST ... PS, PT, PU

REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION	
	RES	RESISTORS (Continued)		CAPACITORS (Continued)		
2132	740-0502	15K 20% ½W	C69	269-1171	25uF 6.4VW Electro	
			C70	269-1261	2uF 350VW Electro	
		CAPACITORS	C71	271-0911	.003uF GMV 500V CTR	
		CAPACITORS	C72	283-1721	.068uF 10% 400V Polyester	
20	271-1291	68pF 5% N330 Tube	C73	271-1211	.001uF GMV Tube	
221	273-0591	68pF 2½ % MS Mica	C74	283-1721	.068uF 10% 500V Polyester	
222	271-0911	.003uF GMV 500V CTR	C75	283-1701	.047uF 10 % 400V Polyester	
223	271-0911	.003uF GMV 500V CTR	C76	271-1211	.001uF GMV Tube	
24	271-0911	.003uF GMV 500V CTR	C77	271-1211	.001uF GMV Tube	
25	271-0621	.001uF Lead Thru CAC 107	C78	283-1261	.15uF 10% 125V Polyester	
226	271-0351	33pF 2½% NPO Tube	C79)		24uF 300VW Electro	
27	271-0731	.047uF +80% —20% 25V Redcap	C80	269-0981	50uF 300VW Electro ECT244	
228	271-0591	.0027uF 20% K2000 Disc	C81		100uF 25VW Electro	
229	273-0591	68pF 2½% MS Mica	C82	283-1661	.022uF 10% 400V Polyester	
230	271-0281	.022uF GMV 100V Disc	C83	283-1581	.0047uF 10% 400V Polyester	
231	271-1221	82pF Lead Thru CAC 106	C84	280-2041	220pF 20% 600V Styroseal	
232	271-1211	.001uF GMV Tube	C85	269-0821	1uF 10VW Electro	
233	269-1131	10uF 16VW Electro	C86	269-0821	1uF 10VW Electro	
234	271-0911	.003uF GMV 500V CTR	C87	280-3241	330pF 20 % 125V Styroseal	
235	273-0591	68pF 2½ % MS Mica	C88	283-1601	.0068uF 10% 400V Polyester	
236	271-0591	.0027uF 20% K2000 Disc	C89	283-1601	.0068uF 10% 400V Polyester	
237	271-0941	8.2 pF ½pF NPO Disc	C90	283-1241	.1uF 10% 125V Polyester	
38	283-1661	.022uF 10 % 400V Polyester	C91	271-0571	22pF 10% NPO Tube	
239	271-0621	.001uF Lead Thru CAC 107	C92	280-3221	68pF 20% 600V Styroseal	
240	271-0941	8.2 pF ½pF NPO Disc	C93	283-1591	.0056uF 10% 400V Polyester	
C40a	271-1061	15pF 10% N330 Tube	C94	283-1601	.0068uF 10 % 400V Polyester	
241	271-0221	2.2pF ½pF NPO Bead	C95	280-3221	68pF 20% 600V Styroseal	
242	283-1741	.1uF 10% 400V Polyester	C96	283-1141	.015uF 10% 125V Polyester	
243	271-0311	27pF 5% NPO Tube 'A'	C97	283-1201	.047uF 10 % 125V Polyester	
244	269-1271	1uF 300VW Electro	C98	271-1241	820pF 20% K2000 Tube	
C45	283-1701	.047uF 10% 400V Polyester	C99	283-1501	.001uF 10% 400V Polyester	
246	269-0521	100uF 150VW Electro—EMG2024S	C100	271-0871	.47uF +80% —20% 25V Redcap	
247	269-0521	100uF 150VW Electro—EMG2024S	C101	283-1581	.0047uF 10% 400V Polyester	
(48)		(200uF 275VW Electro	C102	271-0911	.003uF GMV 500V CTR	
}	269-0901	{EMG1716M	C103	271-0991	220pF 2KV Tube	
49		60uF 275VW Electro	C104	284-0661	.022uF 20% 600V Dipol	
50	271-0871	.47uF +80% —20% 25V Redcap	C105		68pF 3KV Tube (Ex MSP)	
51	283-1181	.033uF 10 % 125V Polyester	C106	284-1281	.22uF 20 % 1000V Dipol	
52	283-1741	.1uF 10% 400V Polyester	C107	271-0911	.003uF GMV 500V CTR	
53	280-1791	220pF 10% 600V Styroseal	C108	284-2701	.047uF 10% 100V Dipol	
54	271-0571	22pF 10 % NPO Tube	C109	284-2701	.047uF 10% 100V Dipol	
55	271-0571	8.2pF ½pF NPO Disc	C110	271-0911	.003uF GMV 500V CTR	
56	271-0591	.0027uF 20% K2000 Disc	CIII	283-1701	.047uF 10 % 400V Polyester	
57	271-0801	10pF 5% NPO Disc	C112	271-0911	.003uF GMV 500V CTR	
58	271-0771	100pF 5% NPO Disc	C113	283-1771	.18uF 10 % 400V Polyester	
59	280-1501	100pF 5% 600V Styroseal	C114	271-1251	18pF 20% 3KV Disc	
60	280-1501	100pF 5% 600V Styroseal 4uF 25VW Electro				
61	269-0781			F	POTENTIOMETERS	
62	283-1501	.001uF 10% 400V Polyester .0047uF 10% 400V Polyester	DV/1	477 1102	500K Curve /A/ Cat Black	
63	283-1581		RV1	677-1103	500K Curve 'A'—Set Black	
64	283-1121	.01uF 10% 125V Polyester 25uF 6.4VW Electro	D1/1	(77 1211	Used on PS-PT only	
65	269-1171		RV1	677-1311	500K Curve 'A'—Set Black	
66	283-1701	.047uF 10% 400V Polyester	D1/0	(77 0011	Used on PU only	
67	271-1061	15pF 10% N330 Tube	RV2	677-0911	1M Curve 'A'—AGC	
(88	240 1141	8uF 250VW Electro	RV3)	(77 1001	50K Curve 'A' (front)—Contrast	
20	269-1161	EBD381	DV	677-1231	25K Curve 'A' (rear)—Contrast Rang	
68a		[16uF 250VW Electro]	RV4		Used on PS-PT only	

PARTS LIST ... PS, PT, PU

REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION	
	POTENTIOMETERS (Continued)			COILS (Continued)		
RV3)	677-1301	50K Curve 'A' (front)—Contrast 25K Curve 'A' (rear)—Contrast Range	L23)	250 1471	1st IF Anode Coil	
RV4	6//-1301	Used on PU only	L24	259-1471	38.375 Mc/s. Trap	
RV5	677-1091	1M Curve 'A' tapped 500K—Volume	L25	259-1431	Filter Choke	
() 3	0//-10/1	Used on PS-PT only	L26)		(2nd IF Anode Coil	
RV5	677-1321	1M Curve 'A' tapped 500K—Volume		259-1481	}	
		Used on PU only	L27		Noise Take-off Coil	
RV6	677-0341	250K Curve 'A'—Height	L28			
RV7	677-1103	500K Curve 'A'—Vertical Hold	L29	259-0955	Grid Peaking Choke	
8V8	677-0511	10K Curve 'A'—Vertical Linearity	L30)			
RV9	677-1122	15K Curve 'A'—Discriminator Balance	}	259-1261	Equalising Coil	
RV10	677-1241	100K Curve 'A'—Horizontal Hold	L31)		1	
RVII	677-0891	2M Curve 'A' Strip—Focus 1M Curve 'A'—Boost	L32	908-0801	Video Peaking Coil	
RV12	677-0911	TM Curve A —Boost	L33	259-1541	Line Oscillator Coil	
			L34	259-0045	Anti-Parasitic Coil	
			L35	259-1251	Linearity Coil	
		VALVES	L36	259-0045	Anti-Parasitic Coil	
V1	932-1161	6ES8 — RF Amplifier	İ			
V2	932-1921	6HG8 — Frequency Changer			TRANSCORMERS	
V 3	932-1211	6EH7 — 1st IF Amplifier			TRANSFORMERS	
/4	932-2341	6X9 — 2nd IF Amplifier and Noise	T1	904-0451	Power Transformer	
		Detector	T2	905-0621	Sound Output Transformer	
V 5	932-2351	6Y9 — Video Amplifier and AGC	Т3	908-0781	Vertical Oscillator Transformer	
V 6	932-2411	6V9 — Sync. Separator and Amplifier	T4	908-0741	Vertical Feedback Transformer	
/7	932-0521	6BX6 — Limiter	T5	905-0601	Vertical Output Transformer	
√8	932-1771	6GW8 — Audio Driver and Output	Т6	908-0771	Horizontal Output Transformer	
V9	932-2001	6GV8 — Vertical Oscillator & Output	IFT1	906-0591	Vision IFT	
V10	932-2371	6JW8 — Reactance Valve and Hori-		906-0711	Vision IFT	
	222 222	zontal Oscillator	IFT3	906-0721 906-0324	Sound IFT and 5.5 Mc/s. Trap Ratio Detector Transformer	
V11	932-0531	6CM5 — Horizontal Output	IFT4	900-0324	Ratio Detector Transformer	
√12 /12	932-0771	1S2 — EHT Rectifier				
/13	932-1151	6AL3 — Damper Diode			AICCELL ANEOUS	
				,	MISCELLANEOUS	
			CHI	232-0351	HT Choke	
		DIODES	VDR1	750-0711	Voltage Dependent Resistor	
MR1	932-0971	OA90 — Video Detector			Type E299DC/P342	
√R2	932-1071	OA210 — HT Rectifier	VDR2	750-0691	Voltage Dependent Resistor	
MR3	932-1071	OA210 — HT Rectifier			Type E298ED/A262 Violet Spot	
MR4	932-0991	M3 — AGC Clamp	VDR3	750-0571	Voltage Dependent Resistor	
1R5	932-2081	2—AA119—Ratio Detector			Type E298ZZ/06 Black End,	
MR6		(Matched Pair)			Blue Spot	
MR7	932-2451	BA100 — Vertical Sync. Diode	VDR4	750-0721	Voltage Dependent Resistor	
MR8	932-2631	OA202 — Blanking Clamp			Type E299DD/P352	
MR9	932-2451	BA100 — Phase Discriminator	FS1	431-0081	Fuse 1.5 amp. Mains	
MR10	932-2451	BA100 — Phase Discriminator	FS2	431-0081	Fuse 1.5 amp. HT Secondary	
			Tuner	224-1512	Philips NT3011	
			SW1	855-0602	DP Push-Push On/Off Switch	
		COILS	Citi	055 0400	Used on PS-PT only	
			SW1	855-0682	DP Push-Push On/Off Switch	
203		∫IF Input Coil		000 1041	Used on PU only	
.20	250 14/1			1177 1041		
}	259-1461	121 275 Mg/g Tra-	Lamp	932-1941	6.3V .25A Bayonet Cap	
.20	259-1461 259-1491	{ (31.375 Mc/s. Trap 29.875 Mc/s. Trap	Yoke CRT	259-1561 932-2291	MSP 43663 23ARP4 23" Shelbond	

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