

SERVICE MANUAL

TELEVISION MODELS

PU6 - 9F
PU6 - BU
PU6 - BP
PU6 - AU
PU6 - 9G



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**6 PARRAMATTA ROAD
HOMEBUSH, N.S.W.**

SPECIFICATIONS

POWER SUPPLY:

230-260 Volts, A.C., 50 Hz.

CONSUMPTION:

130 Watts

AERIAL INPUT:

300 ohms balanced

INTERMEDIATE FREQUENCIES:

Vision Carrier: 36.875 MHz.

Sound Carrier: 31.375 MHz.

Sound Intercarrier: 5.5 MHz.

FUSES:

Main: 1.5 amps.

H.T.: 1.5 amps.

Heater: 28SWG Tinned Copper Wire (see circuit diagram).

VALVES AND SEMI-CONDUCTORS — I.F. BOARD — P.C.B.1

TR101	BF196	First IF Amplifier	TR108	BC147	Audio Driver
TR102	BF196	Second IF Amplifier	IC101	TAA570	Quadrature Demodulator Integrated Circuit
TR103	BF173	Third IF Amplifier	MR101	OA90	Video Detector Diode
TR104	BC147	Noise Gate	MR102	OA90	Sound Take-Off Diode
TR105	BC147	Video Driver	Z101	BZY88/ C11	Voltage Reference Diode
TR106	BF336		V101	6BQ5	Audio Output
TR107	OC9464/ 2N3568	Video Output Voltage Regulator			

SEMI-CONDUCTORS — A.G.C., SYNC., AND VERTICAL OSCILLATOR — P.C.B.2

TR201	SE1002/ BC147	A.G.C. Gate	MR201	AB2031/ OA640/ BA145	Vertical Sync Clipper
TR202	BC208/ BC148	A.G.C. Amplifier	MR202	OA91	A.G.C. Stand-Off Diode
TR203	2N3569/ OC9671	Vertical Oscillator	MR203	AB2031/ OA640/ BA145	Vertical Sync Gate
TR204	2N3568/ OC9736	Vertical Oscillator	MR204	AB2040/ OA640	Vertical Drive Catcher
TR205	OC9631/ AX1255	Sync Separator	MR205	BA145	Vertical Feedback Catcher
TR206	OC9731/ AX1128	Vertical Feedback Amplifier	MR206	BY126/ 400	Negative Voltage Rectifier

VALVES AND SEMI-CONDUCTORS — HORIZONTAL OSCILLATOR — P.C.B.3

V301	6JW8	Horizontal Oscillator and Reactance Valve	MR302	AB2040	Phase Discriminator
MR301	AB2040	Phase Discriminator	MR303	OA202	Blanking Clamp

VALVES AND SEMI-CONDUCTORS — MAIN CHASSIS

V401	6CW5	Vertical Output	MR401	BY126/ 400	Voltage Doubler Rectifier
V402	6CM5	Horizontal Output	MR402	BY126/ 400	Voltage Doubler Rectifier
V403	1S2	E.H.T. Rectifier			
V404	6AL3	Damper Diode			

SEMI-CONDUCTORS — TUNER

TR501	BF200	R.F. Amplifier	TR502	AS305	Mixer	TR503	AS304	Oscillator
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Part No. 684-0701

CAUTION

The normal B+ voltages in these receivers are dangerous. Use extreme caution when servicing. The high voltage at the picture tube anode (19,000 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 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.

Damage to transistors can result from incorrect servicing technique. It is strongly recommended that all soldering be done with the set switched off and the soldering iron made electrically common with the chassis.

CIRCUIT DESCRIPTION

R.F. INPUT

The input signal is applied through a balun transformer matched for 300 ohm input impedance to the neutralised R.F. amplifier TR501. The gain of the amplifier is adjusted for a maximum on weak signals using RV601 and is reduced by increasing the collector current by a positive AGC voltage applied to its base. The amplified R.F. signal is coupled to the base of the frequency changer TR502. A direct connection to this base is brought out for I.F. alignment use. The output of the local oscillator TR503 is also coupled in, and mixing takes place in the base circuit. The I.F. component of the mixer collector current is selected by the collector transformer T502 and coupled to the I.F. amplifier TR101.

I.F. AMPLIFIER AND AGC AMPLIFIER

TR101 and TR102, the first two IF amplifiers are connected in parallel across the low voltage supply and their current is controlled by the output of the AGC amplifier TR202 being applied to the bases of TR101 and TR102. TR101 and TR102 transistors are so-called "forward AGC types." This means that as the current in the transistor increases, the amplification is reduced. This requires a positive potential on the base to reduce the gain.

The output from the last IF amplifier diode TR103 is detected by a diode OA90 MR101 and a narrow band of frequencies from the output is also applied to the noise gate transistor TR104. Coupling to TR104 (C123) is augmented by the capacity between two printed circuit tracks. The band of frequencies selected normally contains very small amounts of signal power, and sufficient signal is obtained to switch on TR104 only when impulse noise occurs, or when the receiver fine tuning is set too far from the normal position.

VIDEO DRIVER AND NOISE GATE

The detected video signal is applied to the video amplifier/driver transistor TR105. In the collector an amplified video signal is developed across R120. This amplified video

is used to drive the sync separator and AGC stages and is gated by the noise gate transistor TR104. This video signal has positive sync pulses. Without gating, impulse noise would appear as positive pulses, producing spurious sync pulses and AGC voltage. When impulse noise switches on TR104, its collector falls, introducing a negative pulse to the video signal, which prevents generation of the spurious information.

A video output at low impedance is taken from the emitter of the video driver through a 5.5 MHz null trap to the base of the video output transistor, TR106.

VIDEO OUTPUT

The picture control varies the gain of the output transistor TR106 by varying the emitter resistance and therefore the amount of degeneration taking place in the emitter. The collector circuit has a peaking transformer to maintain a level frequency response over the video band. The signal applied to the base is proportioned, so that the black level of the picture is just at TR106 cut-off potential, and only the video information is amplified. As black level is at the cut-off potential, the gain control in the emitter does not affect the black information and gives a consistent black level picture control. The proportioning of the video signal to achieve this, is controlled by the contrast range control in the AGC circuit.

GATED A.G.C.

The A.G.C. transistor, TR201, has the output of the video driver transistor applied to its base and a potential on its emitter, which is varied with the contrast range control. The collector is supplied with positive gating pulses from the horizontal output transformer, and only passes collector current during the time of this pulse. The pulses of current build up a negative charge on C203 which, through the A.G.C. amplifier, is used to control the gain of both the tuner and I.F. stages. The value of collector current, and therefore A.G.C. voltage, is controlled by the base-emitter potential.

The emitter potential is set by the contrast range control, the base potential being the sync. tip voltage at the video driver output. Variations in signal strength increase or reduce the sync. tip height, thus altering the A.G.C. produced, with a consequent change in gain to compensate for the varying signal strength. The action of this feedback loop maintains the base-emitter potential at an almost constant value. Adjustment of the emitter potential with the contrast range control is matched by variation of receiver gain, so that the output sync. tip varies the same amount to maintain this base-emitter potential. This control therefore acts as an amplitude control of the video out from the video driver. White level approximately represents zero signal in, and therefore remains fixed, and adjustment of signal amplitude is used as the means of setting the black level at the video output transistor cut-off.

The collector base junction of a transistor is a diode which is back-biased, and collector current is in fact the leakage across this back-biased diode. If the potential across this diode is reversed, it will cause a high current to flow. The A.G.C. potential would appear as just such a forward bias on the collector-base junction of the A.G.C. transistor and would rapidly discharge the A.G.C. voltage developed across C203. The diode MR202 prevents this, being biased off by the derived negative potential.

SYNC. SEPARATOR

The video output from the driver transistor TR105 is coupled through a capacitor C210 and resistor R220 to the base of sync. separator transistor TR206. The base emitter diode D.C. restores the sync. tips to a potential just greater than the emitter potential. The current drawn by the base during sync. tips is the current amplified in the collector to produce a train of sync. pulses. The sync. pulses are then differentiated by C215 - R232 for application to the horizontal phase discriminator. The collector of the sync. separator TR206 is also connected to an integrator (R227, C211, R221, C209, R216, C207) to remove horizontal sync. pulses for vertical triggering.

VERTICAL OSCILLATOR AND OUTPUT

MR201 is normally conducting and shorting the input sync. line to earth. When the incoming sync. pulse is large enough to overcome the current in R203 and switch off the diode. The sync. pulse then appears across MR201 and passes on to the vertical oscillator through the diode MR203.

Two transistors TR203 and TR204 form an oscillator to supply drive to the vertical output valve V401.

During the scan period TR203 is switched on, at this time, TR204 is off and the potential of its emitter is falling towards earth as C206 charges. The base of TR204 is connected to the collector of TR203 and the potential is determined by the drop across R205 and RV402 the vertical hold control. As TR204 emitter potential falls to a value approximately half a volt less than its base, the transistor starts to conduct, and the potential on the emitter reverses direction and rises. The rise in potential is coupled through C206 to the emitter of TR203 and reduces the current in it. The collector potential therefore rises further, switching on TR204. The action is cumulative and reverses the state of the transistors so that TR204 is on, and TR203 is off. TR203 emitter then starts to run down as C206 reverses its charge until TR203 once more switches on and returns the system to the original condition.

MR203 isolates the oscillator from the sync. feed until the end of scan. When the voltage at the junction of R217 and R218 drops below the base potential on TR203, the sync. pulses are then allowed to turn TR203 off at the end of scan.

MR204 prevents TR204 collector from dropping below the "Knee" of the collector characteristic, thus isolating the timing components in the emitter from the collector circuit.

The collector circuit contains the capacitor C216 which is charged through the high value of collector resistor, and discharged by TR204 when it conducts during the flyback. The waveform across C216, corrected by a feedback waveform derived from the resistor (R408) in series with the yoke and amplified by TR206 is used to drive the vertical output valve V401.

The anode transformer T403 drives the yoke and an overwind on the primary provides the vertical blanking for the picture tube.

VOLTAGE REGULATOR AND ZENER DIODE

The 17.3V B+ voltage for the transistor circuitry is derived from V401 cathode which is connected to voltage regulator transistor TR107 via R409 current limiting resistor. TR107 acts as a series regulator using the Z101 zener diode as reference. Z101 also provides the 11 volts required by the tuner.

HORIZONTAL PHASE DISCRIMINATOR AND OSCILLATOR

The phase discriminator diodes MR301 and MR302 have anti-phase sine waves applied from a balanced winding on the oscillator coil, with picture phasing set by the integrators R306, C303 and R307, C304. Using the sine-waves as the reference voltage, a negative going sync. pulse, differentiated by C215,

R232 is applied to the junction of the diodes. When the oscillator and the sync. pulse are at the same frequency and in lock, there is zero output from the discriminator.

The triode section of the oscillator valve, V301 has its anode connected to one side of the oscillator coil, and its grid, through phase-shift network C306, R304 to the other. The signal current in the anode is therefore leading the anode voltage, and the valve has the effect of a capacitor across the tuned circuit. Variation of bias on the valve varies the magnitude of the current and of the effective capacitor, thus controlling frequency.

When the oscillator tends to run at a different frequency to the incoming sync. pulses, a positive or negative output is obtained from the discriminator which is applied to the reactance valve as bias, and varies the effective tuning capacity, bringing the oscillator back to frequency.

The oscillator is the cathode, grid and screen of the pentode section of V301 operating as a triode, with an electron coupled output taken from the anode to drive the horizontal output stage.

HORIZONTAL DEFLECTION CIRCUITS

The horizontal deflection circuit is a conventional valve regulated E.H.T. circuit and therefore requires no detailed description.

INTERCARRIER AMP AND LIMITER

MR102 detects the video frequency band, and the signal is then coupled to IFT4 which is tuned to 5.5 MHz. The secondary of IFT4 is coupled into IC101 integrated circuit where the 5.5 MHz signal undergoes a quadrature demodulation process, giving good AM suppression for input signals greater than 1mV. L113 tuned by C144 is the detector parallel tuned circuit, the Q being chosen to give a good compromise between A.F. output and distortion at 5.5 MHz and a deviation of 50 KHz. C104 (.015) capacitor is chosen to provide a 50uS de-emphasis time constant. The audio output from pin 3 is then passed on to the frequency compensated volume control (RV408) and thence to the audio driver stage (TR108).

ADJUSTMENTS

HORIZONTAL OSCILLATOR

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

Set the Horizontal Hold Control to the mid-way position. The bias at the cathode of V301 should then be approximately 2.5 volts. Short the horizontal sync. pulses by pushing in the

AUDIO AMPLIFIER AND OUTPUT

The required amount of audio from volume control (RV408) is coupled to audio driver transistor TR108 which amplifies the signal to a level to drive the sound output valve V101. The audio output transformer T402 couples the V101 output to a 15 ohms speaker, a proportion of the signal appearing across T402 secondary is used as a negative feedback to the junction of R136 and R137 in TR108 emitter. The cathode voltage of V101 is also used to supply B+ voltage to the integrated circuit via a R133 resistor.

DISMANTLING

To hinge down chassis

1. Remove back by undoing 4 screws.
2. Swing chassis down.

To remove tuner

1. Pull off front control knobs—Channel Selector, On/Off, Picture and Sound knobs. (On models PU6-9F, PU6-9G and PU6-BN, to remove Channel Select Knob, first remove Philips recessed head screw).
2. Remove screw at right side of tuner, and slacken wing nut below.

Tuner may be hooked to left side of main chassis by dropping tongue on tuner bracket into special slot provided. Slide tuner forward and tighten self-tapping screw.

To remove chassis and tuner

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

To remove picture tube

1. Remove chassis and tuner.
2. Remove four screws holding picture tube and lift out.
3. IMPORTANT: NOTE THAT PICTURE TUBE MOUNTED IN (METAL CASE) 9F CABINET HAS INSULATED MOUNTING LUGS.

shaft of the Horizontal Hold control RV407 which operates switch 401. Adjust L301 until the picture floats into lock.

Remove the short-circuit and check that no delay in picture locking occurs when the channel switch is operated.

CONTRAST RANGE

First adjust the Set Black control so that the picture information, which is normally

black, is turned up to grey. Using the Vertical Hold control, roll the picture until the vertical blanking bar is visible in the centre of the screen. Adjust RV401 so that the sync. pulse is seen to be a little darker than the surrounding grey blanking bar. Return the Set Black and Vertical Hold controls to the normal settings.

A.G.C.

The pre-set A.G.C. 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.

FOCUS

The only time that focus adjustment may be necessary is after replacement of a picture tube. The focus potentiometer RV301 is located at the upper left hand side of the horizontal oscillator P.C.B. and is accessible when the cabinet back is removed. Adjust for optimum overall focus across the picture tube face.

LINEARITY

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 both magnets are rotated together, they have little effect on the picture position.

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

VERTICAL

The vertical linearity pre-set potentiometer RV404 is located at the top rear of the chassis. For best linearity, RV404 should be adjusted in conjunction with the HEIGHT control, using a pattern on the screen.

HORIZONTAL

The horizontal linearity coil L402 is situated underneath the main chassis near V403, and may be adjusted from the rear. The core should be adjusted for best linearity, using a pattern on the screen. Two positions of the core provide good linearity, but the position in which the core is furthest out of the coil is the correct one.

PICTURE CENTRING

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

INTERCARRIER I.F. ALIGNMENT

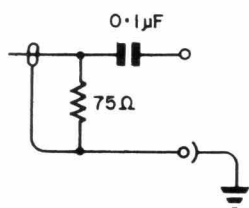


Fig. 1

STAGE 1

5.5 MHz TRAP

- Inject 5.5 MHz sweep through probe of Fig. 1 to junction of L112 and R119 (base of TR105). Connect detector (Fig. 2) to collector of video output (TR106) and connect display unit to output of detector.
- Adjust the slug in L110 for a minimum of output at 5.5 MHz.

STAGE 2

INTERCARRIER I.F.

- Connect probe to junction of C128 and R115.
- Connect detector to pin 8 (IC101) side of C138 and adjust cores of IFT4 to produce a symmetrical response about 5.5 MHz, which should be approximately critically coupled, and with a bandwidth of 200 KHz.

The following equipment is necessary:

- 5.5 MHz Sweep
- Injection Probe (Fig. 1)
- Attenuator
- Display Unit
- Detector (Fig. 2)

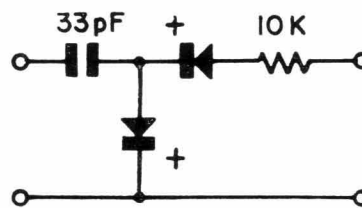


Fig. 2

NOTE: Each core is peaked on the response furthest out from the coil.

- Transfer display unit to junction of R131 and C143 and adjust the core of L113 for a waveshape symmetrical about 5.5 MHz (See Fig. 3).

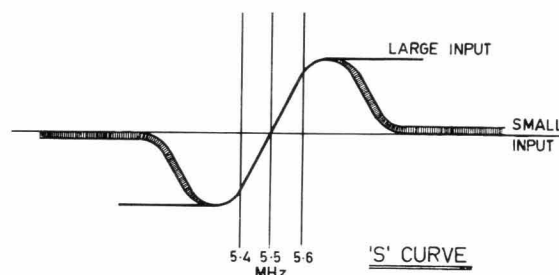


Fig. 3

VISION I.F. ALIGNMENT

The following equipment is required:

1. IF sweep
2. IF injection probe (Fig. 1).
3. Attenuator
4. Display Unit
5. 3.5 Volt bias supply.

Before commencing alignment remove the yoke plug (plug 9 on circuit diagram).

STAGE 1

- (a) With the display unit adjusted to give full 'Y' deflection with 2 volts input, connect to emitter of TR105.
- (b) Open link between C118 and R110, and using probe of Fig. 1, connect the output of the sweep through the attenuator to the R110 side of the link. The earth connection should be made to the earth point of C122.
- (c) Using the attenuator to maintain a display with full deflection, adjust L107 for a maximum at 35 MHz, and then IFT3 for a symmetrical response.
- (d) Adjust L106 for a minimum deflection at 31.375 MHz (sound carrier).
- (e) Where necessary, adjusting the spacing between the windings of IFT3 to control the bandwidth (once set in the initial factory alignment this adjustment should not require attention) and the tuning of IFT3 and L107, to obtain the response shown in the Stage 1 curve.
- (f) If the spacing between IFT3 windings was adjusted, seal with adhesive, remove the input probe and reconnect the link between C118 and R110.

STAGE 2

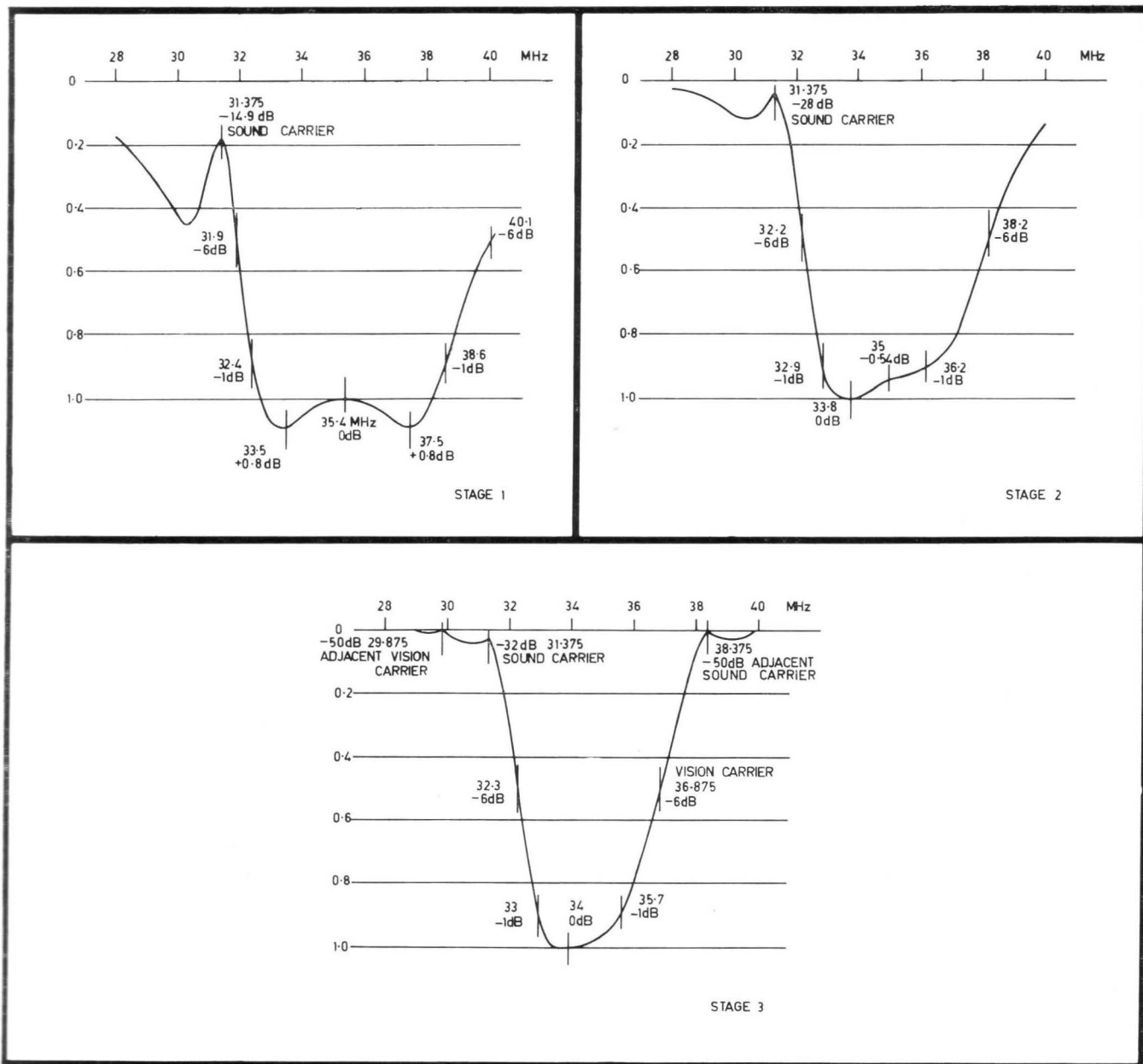
- (a) Open link between R102A and C104 and connect the probe between C104 side of the link and the earth of C109.

- (b) Connect the +3.5 volts of bias to pin 10 of plug 7 (7/10 in circuit diagram).
- (c) Using the attenuator to maintain full deflection on display, adjust IFT2 for maximum deflection at 34 MHz and IFT1 for maximum deflection at 37 MHz.
- (d) Re-adjust IFT2 and IFT1 to accurately obtain response of Stage 2 curve.
- (e) Disconnect probe and reconnect link between R102A and C104.

STAGE 3

- (a) Switch tuner to the blank position between channels 0 and 11, and connect probe to test point 2 on the tuner.
- (b) Maintaining full display deflection with the attenuator adjust T502 on the tuner for maximum response at 35 MHz and L102 for a symmetrical shape.
- (c) Adjust L103 for minimum output at 38.375 MHz (adjacent sound carrier) and L102A for minimum output at 29.875 MHz (adjacent vision carrier).
- (d) Using the coupling coil L101 to control the bandwidth together with T502 and L102 obtain the curve of Stage 3.
- (e) Adjust L109 for a dip in the response at 32.5 MHz.
- (f) Screw the core of L102A into the former one complete turn (unless the receiver is known to be installed in an area with adjacent vision carrier interference).

NOTE: The presence of the adjacent vision trap set 1.5 MHz away from the sound carrier can be objectionable for fringe operation as peaking the video signal for best signal to noise ratio on picture can result in loss of sound as the sound carrier falls into the trap.



BLOCK DIAGRAM

PARTS LIST

REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
P.C.B.1.	132-2071	Small Signals Board complete, tested and aligned as follows:	CAPACITORS (continued)		
CAPACITORS			C139	271-0761	.1uF +80% —20% 25V Redcap
C101	271-2021	47pF \pm 2½% N330 Disc	C140	283-6641	.015uF —10% 100V Greencap
C102	271-2051	4.7pF \pm 5% NPO Disc	C141	271-1201	.01uF +100% —0% 50V Redcap
C103	271-2051	4.7pF \pm 5% NPO Disc	C142	271-0761	.1uF +80% —20% 25V Redcap
C104	271-2041	33pF \pm 5% N150 Disc	C142A	271-1271	.001uF \pm 20% Disc
C105	271-1981	22pF \pm 5% NPO Disc	C143	271-1201	.01uF +100% —0% 50V Redcap
C106	271-0471	6.8pF \pm ¼pF NPO Disc	C144	280-3391	100pF —10% 100V
C107	271-2041	33pF \pm 5% N150 Disc	C145	269-0871	125 mfd 16V Electrolytic
C108	271-0731	0.047pF +80% —20% 25V Redcap	C146	283-5741	.1uF \pm 10% 50V
C109	271-0731	0.047uF +80% —20% 25V Redcap	C147	282-5081	.047uF \pm 10% 160V
C110	271-0731	0.047uF +80% —20% 25V Redcap	C148	271-1631	18pF —10% 500V N330 Tube
C111	271-2011	30pF \pm 5% N150 Disc	C149	269-0871	125 mfd 16V Electrolytic
C112	271-2021	47pF \pm 2½% N330 Disc	C150	269-0211	8 mfd 300V Electrolytic
C113	271-1981	22pF \pm 5% NPO Disc	C151	271-0761	.1uF +80% —20% 25V Redcap
C114	271-0731	0.047uF +80% —20% 25V Redcap	C152	271-0731	0.047uF +80% —20% 25V Redcap
C115	271-0731	0.047uF +80% —20% 25V Redcap	C153	271-0731	0.047uF +80% —20% 25V Redcap
C116	271-0731	0.047uF +80% —20% 25V Redcap	C154	269-1541	47 mfd 35V Electrolytic
C117	271-1961	100pF \pm 5% N330 Disc	RESISTORS		
C118	271-1961	100pF \pm 5% N330 Disc	All Resistors \pm 10% ½ watt except where stated otherwise		
C119	271-0731	0.047uF +80% —20% 25V Redcap	R101	740-2082	1.1K ohms \pm 5%
C120	271-1951	27pF \pm 5% N330 Disc	R102	740-0021	1K ohms
C121	271-1941	56pF \pm 5% N330 Disc	R102A	740-1561	560 ohms \pm 5%
C122	271-0731	0.047uF +80% —20% 25V Redcap	R103	740-1141	5.6K ohms
C124	271-1721	39pF \pm 5% N330 Disc	R103A	740-2072	200 ohms —5%
C125	269-1041	10mfd 6V Electrolytic	R104	740-0681	680 ohms
C126	271-0731	0.047uF +80% —20% 25V Redcap	R105	740-0291	270 ohms
C127	271-0681	12pF \pm 5% NPO Disc	R106	740-0021	1K ohms
C128	271-1751	15pF \pm 5% NPO Disc	R107	740-0681	680 ohms
C129	271-0471	6.8pF \pm ¼pF NPO Disc	R108	740-0921	330 ohms
C130	271-0731	0.047uF +80% —20% 25V Redcap	R109	740-2042	9.1K ohms \pm 5%
C130A	271-0731	.047uF +80% —20% 25V Redcap	R110	740-0041	2.7K ohms
C130B	271-0731	.047uF +80% —20% 25V Redcap	R111	740-0001	390 ohms
C131	271-1891	68pF \pm 5% N330 Disc	R112	740-0731	12K ohms
C132	271-0471	6.8pF \pm ¼pF NPO Disc	R113	740-0011	470 ohms
C132A	271-0471	6.8pF \pm ¼pF NPO Disc	R114	740-0051	3.3K ohms
C133	271-1891	68pF \pm 5% N330 Disc	R115	740-0041	2.7K ohms
C134	271-0841	470 \pm 20% AY Disc	R116	740-0041	2.7K ohms
C135	280-3121	270pF \pm 10% 100V	R117	740-0641	1.5K ohms \pm 5%
C136	280-3641	390pF \pm 10% 100V	R118	740-0021	1K ohms
C136A	269-0871	125 mfd 16V Electrolytic	R119	740-0221	180K ohms
C137	271-0761	.1uF +80% —20% 25V Redcap	R120	740-0011	470 ohms
C138	280-3641	390pF —10% 100V	R121	740-0021	1K ohms
			R122	740-0321	1.2K ohms
			R123	740-0321	1.2K ohms
			R124	750-0782	6.8K ohms 4 Watt

PARTS LIST (continued)

REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
RESISTORS (continued)			COILS (continued)		
R125	750-0632	8.2K ohms 4 Watt	L110	259-1801	Coil—5.5 MHz Trap
R126	742-0092	47K ohms	L111	259-2201	Coil—Video Collector
R127	740-1811	2K ohms \pm 5%	L112	259-2151	Coil—Peaking
R128	740-0021	1K ohms	L112A	259-1432	Coil—Filter
R129	740-0651	100 ohms	L113	259-2071	Coil—5.5 MHz Detection
R130	740-1311	2.2K ohms \pm 5%	L114	259-1432	Coil—Filter
R131	740-0071	4.7K ohms	TRANSFORMERS		
R132	740-0081	10K ohms	IFT1	906-1012	I.F. Transformer—Vision
R133	740-0651	100 ohms	IFT2	906-1022	I.F. Transformer—Vision
R134	740-0361	390K ohms	IFT3	906-1032	I.F. Transformer—Video Detector
R135	740-1491	6.8 Meg. ohms	IFT4	906-1041	I.F. Transformer—Intercarrier
R136	740-0021	1K ohms	P.C.B.2 132-1592 Sync Board complete as follows:		
R137	740-0291	270 ohms	CAPACITORS		
R138	740-0221	180K ohms	C201	269-0871	125 mfd 16V Electrolytic
R139	740-0061	3.9K ohms	C202	282-0581	.0047uF \pm 10% 400V Polyester
R140	740-1081	470K ohms	C203	269-1671	47uF \pm 20% 6.3V Tantalum
R141	740-0672	680K ohms	C204A	271-1481	.003uF —20% 500V Ceramic
R142	740-0141	100K ohms	C204B	269-0821	1mfd 10V Electrolytic
R143	740-0321	1.2K ohms	C205	271-1201	.01uF \pm 100% —0% 50V Ceramic
R144	742-0022	4.7K ohms	C206	280-3591	1uF \pm 10% 250V Metallized Film
R145	742-0722	560K ohms	C207	271-1791	.001uF \pm 10% Ceramic Disc
R146	740-1141	5.6K ohms	C208	269-0871	125 mfd 16V Electrolytic
TRANSISTORS, DIODES, I.C.			C209	271-1791	.001uF \pm 10% Ceramic Disc
TR101	932-3381	BF196—1st I.F. Amplifier	C210	283-6581	.047uF \pm 10% 100V Polyester
TR102	932-3381	BF196—2nd I.F. Amplifier	C211	271-1781	470pF —10% Ceramic Disc
TR103	932-3761	BF173—3rd I.F. Amplifier	C212	280-3651	2uF mfd \pm 10% Polyester 200V
TR104	932-3401	BC147—Noise Gate	C213	280-5201	.5uF \pm 20% 50V Lacquer Film
TR105	932-3401	BC147—Video Driver	C214	283-5741	.1uF \pm 10% 50V Polyester
TR106	932-4091	BF336—Video Output	C215	280-2041	220pF \pm 20% 630V Styro Seal
TR107	932-2971	2N3568—Voltage Regulator	C216	282-5261	.039uF —5% 160V Polyester
or	932-4021	OC9464	C217	269-1131	10 mfd 16V Electrolytic
TR108	932-3401	BC147—Audio Driver	C218	269-1261	2 mfd 350V Electrolytic
IC101	932-3741	TAA570—Quadrature Demodulator	C219	280-3591	1uF \pm 10% 250V Metallized Film
MR101	932-0971	OA90—Video Detector	C220	283-1241	.1uF \pm 10% 160V Polyester
MR102	932-0971	OA90—Sound Detector	C221	282-5081	.047uF \pm 10% 160V Polyester
Z101	932-3541	BZY88/C11—Reference Diode	C222	269-1571	16 mfd 300V Electrolytic
COILS			C223	269-1131	10 mfd 16V Electrolytic
L101	259-2171	Coil—Tuner Coupling	C224	269-1641	2.2 mfd —20% 35V Tantalum
L102	259-2181	Coil—I.F. and Adj. Vision Trap			
L102A	259-2181	Coil—I.F. and Adj. Vision Trap			
L103	259-2161	Coil—Adj. Sound Trap			
L103A	259-2191	Coil—Trap Coupling			
L104	259-1432	Coil—Filter			
L105	259-1432	Coil—Filter			
L106	259-2101	Coil—3rd I.F. Sound Take-off and Collector			
L107	259-2101	Coil—3rd I.F. Sound Take-off and Collector			
L108	259-1432	Coil—Filter			
L109	259-2122	Coil—Noise Take off			

PARTS LIST (continued)

REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
RESISTORS			TRANSISTORS (continued)		
All Resistors $\pm 10\%$ $\frac{1}{2}$ watt except where stated otherwise					
R201	740-0001	390 ohms	TR204	{ 932-2971	2N3568—Vert. Multivibrator
R202	740-0001	390 ohms		or	
R203	740-0221	180K ohms		{ 932-4011	OC9736
R204	740-0121	47K ohms	TR205	{ 932-4121	OC9631—Sync Separator
R205	740-1292	680 ohms $\pm 5\%$ $\frac{1}{2}$ Watt		or	
R206	740-0111	27K ohms		{ 932-3901	AX1255—Sync Separator
R207A	740-1352	33K ohms $\pm 5\%$ $\frac{1}{2}$ Watt	TR206	{ 932-4051	OC9731—Vertical Feedback Amplifier
R207B	740-0071	4.7K ohms		or	
R208	740-0061	3.9K ohms		{ 932-4131	AX1128
R209	740-0681	680 ohms	DIODES		
R210	740-0661	82 ohms	MR201	932-2601	AB2031—Synch Clipper
R211	740-0301	1.8K ohms	or	932-4031	OA640
R212	740-1301	820 ohms $\pm 5\%$ $\frac{1}{2}$ Watt		932-4041	BA145
R213	740-0141	100K ohms	MR202	932-2031	OA91—A.G.C. Stand-Off Diode
R214	740-0731	12K ohms	MR203	932-2601	AB2031—Synch Gate
R215	740-0711	47 ohms		932-4031	OA640
R216	740-0231	39K ohms		932-4041	BA145
R217	740-0961	10K ohms $\pm 5\%$ $\frac{1}{2}$ Watt	MR204	932-2961	OA640
R218	740-0111	27K ohms	or	932-4041	BA145
R219	740-0411	820 ohms		932-2961	AB2040—Vertical Drive Clamp
R220	740-0411	820 ohms	MR205	932-4031	OA640
R221	740-0231	39K ohms		932-4041	BA145
R222	740-0952	4.7 Meg. ohms		932-2961	AB2040—Vertical Drive Catcher
R223	740-0331	100K ohms $\pm 5\%$ $\frac{1}{2}$ Watt	MR206	932-3631	BY126/400 Negative Bias Rectifier
R224	740-1211	12K ohms $\pm 5\%$ $\frac{1}{2}$ Watt			
R224A	740-1211	12K ohms $\pm 5\%$ $\frac{1}{2}$ Watt			
R225	750-0942	39K ohms $\pm 10\%$ 4 Watts	P.C.B.3 132-1601 Horizontal Oscillator Board Assembly complete as follows:		
R226	740-0731	12K ohms	CAPACITORS		
R227	740-0751	68K ohms	C301	271-0961	560pF $\pm 10\%$ Ceramic Tube
R228	740-0051	3.3K ohms	C302	280-3591	1 mfd $\pm 10\%$ 250V Metallized Film
R229	740-0651	100 ohms	C303	280-3441	.0047uF $\pm 10\%$ 50V Styroseal
R230	750-1072	18K ohms $\pm 10\%$ 4 Watts	C304	280-3441	.0047uF $\pm 10\%$ 50V Styroseal
R231	740-1331	150 ohms $\pm 5\%$ $\frac{1}{2}$ Watt	C305	271-1571	.0022uF $\pm 10\%$ Ceramic Disc
R232	740-0071	4.7K ohms	C306	271-1301	22pF $\pm 10\%$ Ceramic Disc
R233	740-0941	6.8K ohms $\pm 5\%$ $\frac{1}{2}$ Watt	C307	280-3591	1 mfd $\pm 10\%$ 250V Metallized Film
R234	740-0941	6.8K ohms $\pm 5\%$ $\frac{1}{2}$ Watt	C308	280-1101	.0068uF $\pm 10\%$ 400V Styroseal
R235	740-0961	10K ohms $\pm 5\%$ $\frac{1}{2}$ Watt	C309	280-1091	.0056uF $\pm 10\%$ 400V Styroseal
R236	740-0141	100K ohms	C310	271-1241	820pF $\pm 20\%$ Ceramic Tube
R238	740-0851	560K ohms	C311	282-6001	.001uF $\pm 10\%$ 400V Polyester
R238A	740-2052	2.7 Meg. ohms	C312	282-0581	.0047uF $\pm 10\%$ 400V Polyester
R239	740-0241	33K ohms	C313	271-0911	.003uF $\pm 500V$ GMV Ceramic
R240	740-1081	470K ohms	C314	271-0991	220pF $\pm 10\%$ Ceramic Tube
R241	740-0221	180K ohms	C315	284-1281	.22uF $\pm 20\%$ 1000V Dipol
TRANSISTORS					
TR201	{ 932-2711	SE1002—A.G.C.			
	or				
	{ 932-3401	BC147—A.G.C.			
TR202	{ 932-3841	BC208—A.G.C. Amplifier			
	or				
	{ 932-3421	BC148—A.G.C. Amplifier			
TR203	{ 932-3961	OC9671—Vert. Multivibrator			
	or				
	{ 932-3851	2N3569—Vert. Multivibrator			

PARTS LIST (continued)

REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
RESISTORS			RESISTORS (continued)		
All Resistors $\pm 10\%$ $\frac{1}{2}$ watt except where stated otherwise			R603	740-0081	10K
R301	740-0851	560K ohms	R604	740-0712	47 ohms
R302	740-0851	560K ohms	RV601	677-2152	22K PH. Preset Potentiometer.
R303	740-0141	100K ohms			2322-411-072-80—Tuner
R304	740-0382	6.8K ohms			Bias
R305	740-0792	8.2K ohms	TR601	932-3421	BC148—Tuner AGC Delay
R306	742-1252	3.3K ohms $\pm 5\%$ 1 Watt	or	932-2711	SE1002
R307	742-1252	3.3K ohms —5% 1 Watt		932-3621	AT324
R308	740-0411	820 ohms	CHASSIS MOUNTED COMPONENTS		
R309	740-0321	1.2K ohms	CAPACITORS		
R310	742-0172	470K ohms $\pm 10\%$ 1 Watt	C401	269-1211	12.5 mfd 25V Electro.
R311	740-0061	3.9K ohms	C401A	271-0761	.1 mfd $\pm 80\%$ —20% Redcap 25V
R312	740-0101	22K ohms	C402	269-0111	25 mfd 300V Electrylic
R313	742-0062	27K ohms	C403	269-0471	50 mfd 350V Electrolytic
R314	742-0352	1 Meg. ohms $\pm 20\%$ 1 Watt	C404	269-0971	2000 mfd 25V Electrolytic
R315	742-0352	1 Meg. ohms —20% 1 Watt	C405	283-1661	.022uF $\pm 10\%$ 400V Poly.
R316	740-0101	22K ohms	C406	283-1701	.047uF $\pm 10\%$ 400V Poly.
R317	742-0352	1 Meg. ohms $\pm 20\%$ 1 Watt	C407	271-0781	.035uF 2KV Ceramic Disc
R318	742-0492	68K ohms $\pm 10\%$ 1 Watt	C408	271-0781	.035uF 2KV Ceramic Disc
R319	742-0402	150K ohms $\pm 20\%$ 1 Watt	C409	269-1571	16 mfd 300V Electrolytic
R320	742-0102	82K ohms $\pm 10\%$ 1 Watt	C410 }	269-0901	{ 60 mfd (275V Electro) 200 mfd ()
R321	742-0142	270K ohms $\pm 10\%$ 1 Watt	C411 }		
R322	742-0562	470K ohms $\pm 20\%$ 1 Watt	C412	269-0521	100 mfd 150V Electro.
R323	742-0562	470K ohms $\pm 20\%$ 1 Watt	C412A	271-0391	.0047uF 240V RMS Ceramic Disc
R324	742-0732	1.8M ohms $\pm 10\%$ 1 Watt	C413	269-0521	100 mfd 150V Electrolytic
R325	742-0102	82K ohms $\pm 10\%$ 1 Watt	C414		82pF: Part of Yoke 259-2051
R326	742-1092	3.3 Meg. ohms —20% 1 Watt	C415	271-0911	.003uF GMV 500 Ceramic Tube
VDR301	750-0571	VDR E298 ZZ/06—Black End, Blue Spot	C416	284-2711	.056uF $\pm 10\%$ 1000V Dipol
VDR302	750-0691	VDR E298 ED/A262— Violet End	C417	271-2031	33pF $\pm 10\%$ 4KV Ceramic Disc
RV301	677-2121	2.2 Meg. ohms Preset Potentiometer Focus	C418	284-2701	.047uF $\pm 10\%$ 1000V Dipol
RV302	677-2131	1 Meg. ohm Preset potentio- meter Boost	C419	283-1691	.039uF $\pm 10\%$ 400V Polyester
DIODES			C420	271-0911	.003uF GMV 500 Ceramic Tube
MR301	932-2961	AB2040	C421	283-5221	.068uF $\pm 20\%$ 50V
MR302	932-2961	AB2040	C422	283-1701	.047uF $\pm 10\%$ 400V Poly.
MR303	932-2631	OA202	C423	271-0911	.003uF GMV 500 Ceramic Tube
P.C.B.4	132-2051	Tuner AGC Bias Board Assembly as follows:	C424	271-0911	.003uF GMV 500 Ceramic Tube
CAPACITORS			C425	269-1131	10 mfd 16V Electrolytic
C601	269-0931	25 mfd 25V Electrolytic	RESISTORS		
C602	283-6741	.1uF 100V Poly.	All Resistors $\pm 10\%$ $\frac{1}{2}$ watt except where stated otherwise		
RESISTORS			R401	740-0012	470 ohms
All Resistors $\pm 10\%$ $\frac{1}{2}$ watt except where stated otherwise			R402	740-0272	150 ohms
R601	740-0121	47K	R403	740-0182	470K ohms
R602	740-0151	150K	R404	740-0072	4.7K ohms
			R405	740-0722	1.5M ohms
			R406	740-0122	47K ohms
			R407	750-0952	270 ohms $\pm 10\%$ 4 Watts

PARTS LIST (continued)

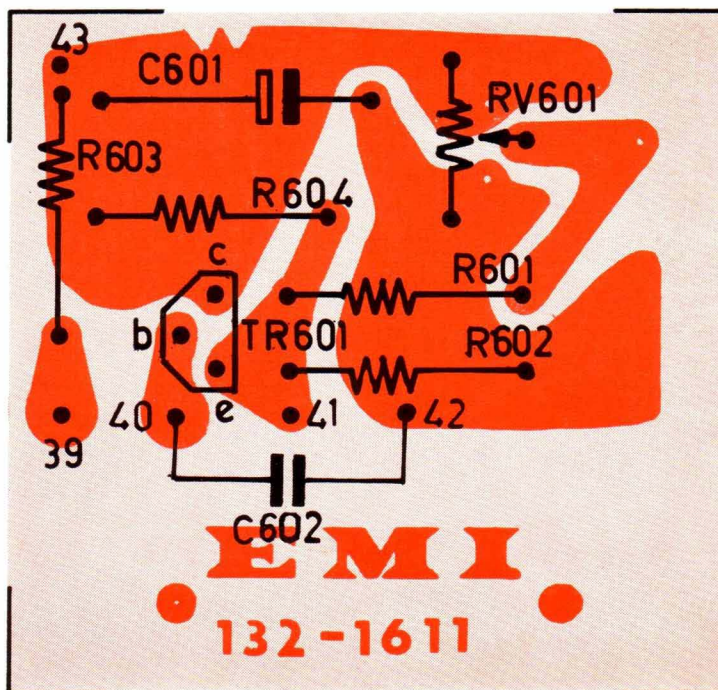
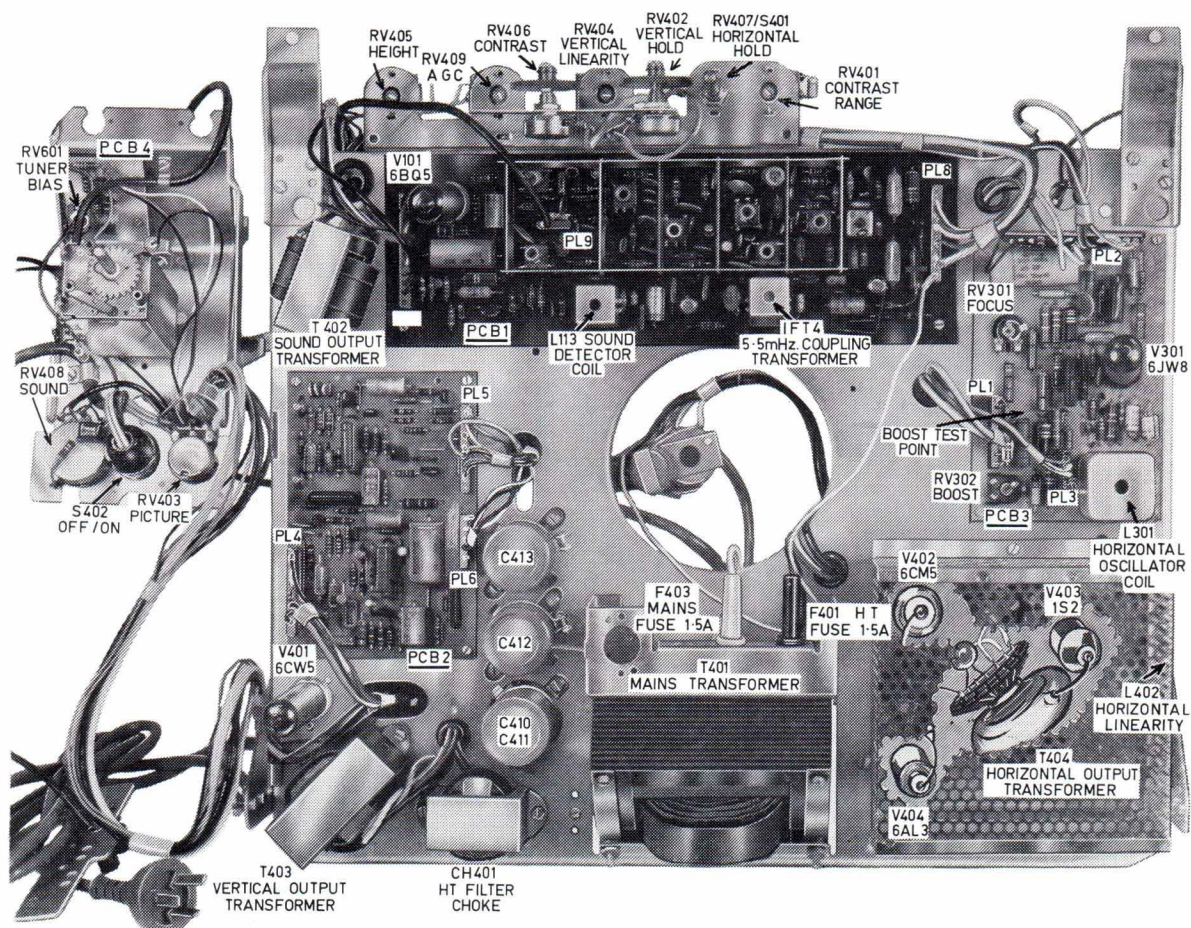
REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
RESISTORS (continued)			MISCELLANEOUS (continued)		
R408	746-0212	1 ohm —5% ½ Watt, Wire Wound	PL1	824-1541	4 Pin +1 Polarity Pin Socket
R409	740-1042	27 ohms	PL2	824-1501	11 Pin +1 Polarity Pin Socket
R410	742-0492	68K ohms ± 10% 1 Watt	PL3	824-1551	3 Pin +1 Polarity Pin Socket
R411	740-1782	1.5K ohms ± 20% ½ Watt	PL4	824-1531	8 Pin +1 Polarity Pin Socket
R412	740-1782	1.5K ohms ± 20% ½ Watt	PL5	824-1531	8 Pin +1 Polarity Pin Socket
R413	750-0662	3.9K ohms ± 10% 4 Watts	PL6	824-1521	5 Pin +1 Polarity Pin Socket
R414	750-1042	680 ohms ± 10% 7 Watts	PL7	824-1501	11 Pin +1 Polarity Pin Socket
R415	740-0272	150 ohms On Yoke	PL8	824-1511	9 Pin +1 Polarity Pin Socket
R416	740-0272	150 ohms On Yoke	PL9	824-1641	2 Pin +1 Polarity Pin Socket
R417	740-0572	1K ± 20% ½ Watt	T401	904-0651	Transformer—Mains
R418	750-1052	2K ohms ± 5% 4 Watts	T402	905-0711	Transformer—Audio Output
R419		1.8 ohms Filament Lead	T403	905-0721	Transformer—Frame Output
R420	742-0742	3.9K ohms ± 10% 1Watt	T404	908-0931	Transformer—EHT
R421	740-1042	27 ohms			MSP 55423
R422	740-0042	2.7K ohms	S402	855-0821	Switch Type D.P.S.T. Rotary
R423	740-0732	12K ohms		224-2611	AWA 46300-006 Tuner
R424	750-0602	22 ohms ± 10% 4 Watts	CH401	232-0351	Choke H.T.
R428	750-1111	10K ohms ± 10% PW7	F401	431-0081	1.5 amps Fuse H.T.
VDR401	750-0611	VDR E299 DE/P350	F402		Fuse Filament (28SWG.T.CU. Wire)
POTENTIOMETERS			F403	431-0081	1.5 amps Fuse Mains
RV401	677-2111	1K ohms—Contrast Range	L401	259-0045	Coil Anti-Parasitic
RV402	677-2082	500 ohms—Vertical Hold	L402	259-1252	Coil Linearity
RV403	677-1731	500K ohms—Picture	L403	259-0045	Coil Anti-Parasitic
RV404	677-0172	25K ohms E.C.—Vertical Linearity	T401	904-0652	Transformer Mains
RV405	677-1641	2 Meg. ohms E.C.—Height	T402	905-0711	Transformer Audio Output
RV406	677-2091	1K ohms—Contrast	T403	905-0721	Transformer Frame Output
RV407	677-1652	100K ohms (and Switch S401)—Horizontal Hold	T404	908-0931	Transformer EHT MSP 55423
RV408	677-2171	250K ohms Tap 25K ohms—Sound	PL1	824-1541	4 Pin + 1 Polarity Pin Socket
RV409	677-2221	1.5K ohms E.C.—AGC	PL2	824-1501	11 Pin + 1 Polarity Pin Socket
VALVES — DIODES			PL3	824-1551	3 Pin + 1 Polarity Pin Socket
V101	932-1051	6BQ5 Audio Output	PL4	824-1531	8 Pin + 1 Polarity Pin Socket
V301	932-2371	6JW8 Reactance, Horizontal Oscillator	PL5	824-1531	8 Pin + 1 Polarity Pin Socket
V401	932-1111	6CW5 Vertical Output	PL6	824-1521	5 Pin + 1 Polarity Pin Socket
V402	932-0531	6CM5 Horizontal Output	PL7	824-1501	11 Pin + 1 Polarity Pin Socket
V403	932-0771	IS2 EHT Rectifier	PL8	824-1511	9 Pin + 1 Polarity Pin Socket
V404	932-1151	6AL Damper Diode	PL9	824-1641	2 Pin + 1 Polarity Pin Socket
MR401	932-3631	BY 126/400 Diode	CABINET FITTINGS		
MR402	932-3631	BY 126/400 Diode	PU6-9F CASINO 70 — 23"		
PLP	932-1941	Lamp 6.3V .25 Amp Bayonet Cap Philips Ba95	DIMENSIONS Packed Unpacked		
MISCELLANEOUS			Height	21½"	19" (29" with legs)
L401	259-0045	Coil—Anti-Parasitic	Width	31⅝"	26⅞"
L402	259-1252	Coil—Linearity	Depth	19⅝"	17"
L403	259-0045	Coil—Anti-Parasitic	Weight	83 lbs.	74 lbs.
	224-2611	Tuner MSP 46300-006	191-0492	Cabinet Wrap—Maple	
CH401	232-0351	Choke H.T.	191-0502	Cabinet Wrap—Walnut	
F401	431-0081	1.5 Amps Fuse—H.T.	244-0231	Clip (Knob Rear Presets)	
F402		Fuse Filament (28SWG.T.CU. Wire)	244-1231	Clip (Use with 837-1122)	
F403	431-0081	1.5 Amps Fuse—Mains	259-2051	Yoke—Coil Deflection MSP43667	
			294-1209	Cover—Cabinet Back	
			403-3621	Escutcheon Control	
			403-3651	Escutcheon Channel Indicator	
			403-4531	Escutcheon and Mask Assy.	

PARTS LIST (continued)

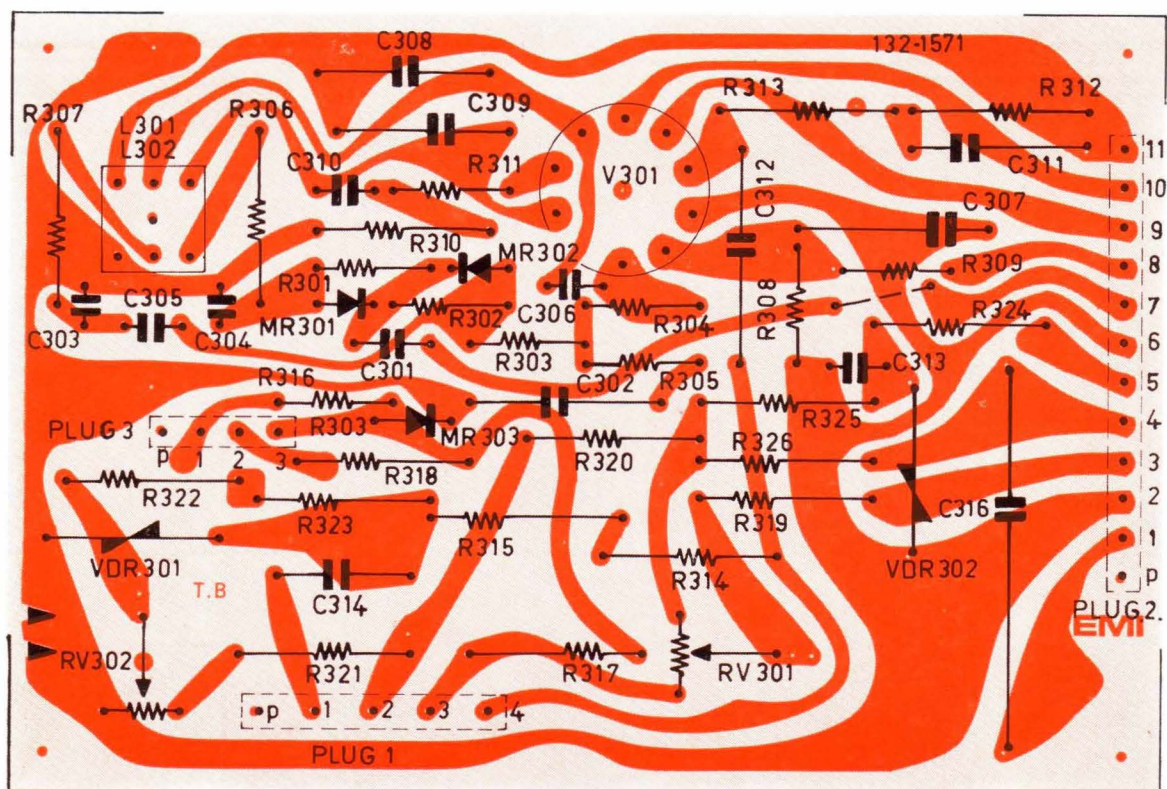
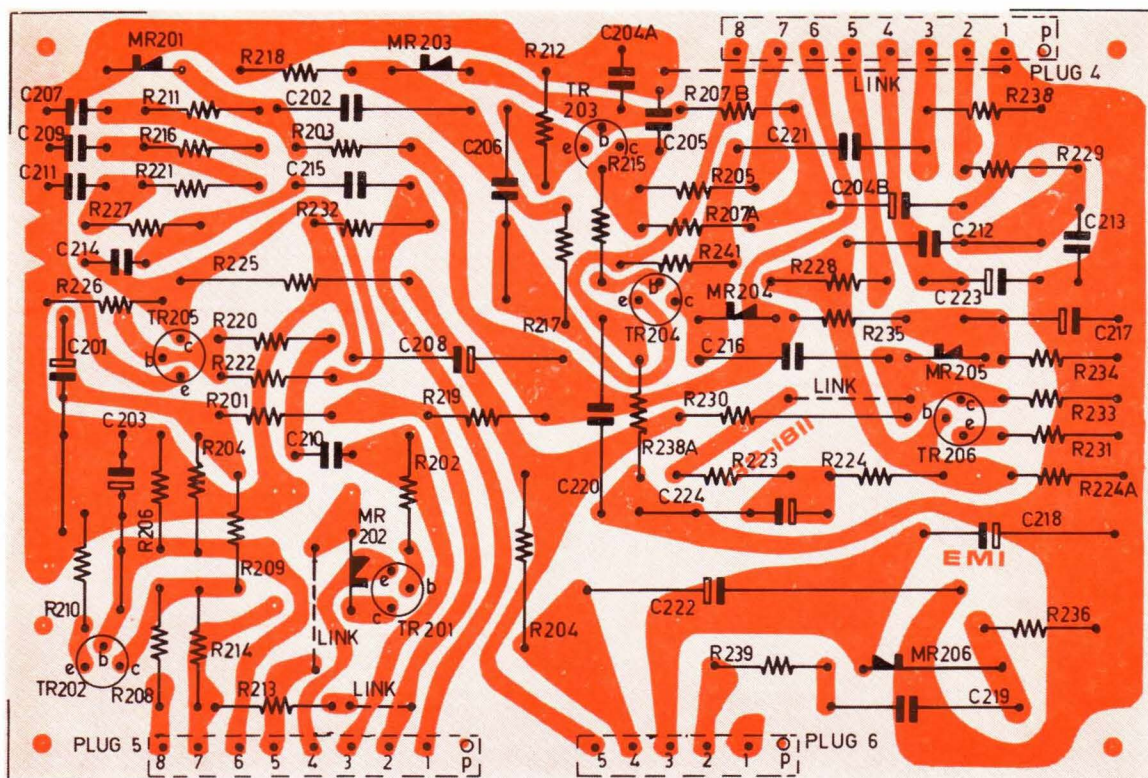
REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
PU6-9F CASINO 70 — 23" (continued)			PU6-BN TRENT 24" (continued)		
	416-0041	Foot White Rubber		403-4731	Escutcheon—Padded (Rosewood)
	470-0461	Handle		517-2081	Knob—Rear Presets
	517-2892	Knob—Controls		517-2892	Knob—Controls (Front)
	517-3441	Knob Cover (Channel Change)		517-3441	Knob—Cover (Channel Selector)
	517-3471	Knob—Channel Indicator		517-3471	Knob—Channel Indicator
	517-2081	Knob (Rear Presets)		539-0391	Leg—Maple
	539-0421	Leg (10")		539-0401	Leg—Walnut
	561-1571	Medallion—Trade Mark		539-0411	Leg—Teak
	561-2171	Medallion (Gold Inlay for 403-3621)		539-0431	Leg—Rosewood
	561-2551	Medallion (Casino 70)		561-2071	Medallion—Gold Inlay for 403-3621
	617-0331	Spire Nut SFP0211 (Fixing 403-3651)		561-2391	Medallion—Trade Mark, "His Master's Voice"
	617-1881	Spire Nut SNU1065 (Fixing 403-3621)		561-2431	Medallion—Trade Mark
	801-0181	Screw (Knob Cover Fixing)		561-2531	Medallion (Name Trent)
	801-2191	Screw, 4 x 1/2" Hex. Head. Type 25 (Used with 837-1112)		617-0331	Spire Nut SFP0211 (Fixing 403-3651)
	814-2271	Screw 4-40 x 5/8", Hex. Head. Type 23 (Used with 517-3471)		617-1881	Spire Nut SNU1065 (Fixing 403-3621)
	826-0061	Sleeve (Insulating Picture Tube Lugs)		801-0181	Screw (Knob Cover Fixing)
	831-1823	Speaker, 7" x 4", 15 ohms, Voice Coil		801-2191	Screw 4 x 1/2" Hex. Head. Type 25 (Use with 837-1112)
	837-1112	Spindle Extension—Tuner		814-2271	Screw 4-40 x 5/8", Hex. Head. Type 23 (Use with 517-3471)
	837-1122	Spindle Extension—Fine Tuner		831-1823	Speaker, 7" x 4", 15 ohms Voice Coil
	932-2292	CRT 23" Rimband 23GSP4		837-1112	Spindle Extension—Tuner
	946-1021	Washer (Insulating Picture Tube Lugs)		837-1122	Spindle Extension—Fine Tuner
				932-3751	Picture Tube, 24", Rimband A61-120W4
PU6-BN TRENT 24"			CABINET FITTINGS		
DIMENSIONS	Packed	Unpacked	PU6 BEVERLY 25" LOWBOY		
Height	21 1/2"	28 1/4" (including 9" legs)	DIMENSIONS:		
Width	40"	36 1/2"	Height	26-3/16"	
Depth	20 1/2"	15 3/4"	Width	37-1/8"	
Weight	91 lbs.	80 lbs.	Depth	16-9/16"	
	113-0922	Baffle—Assembly (Speaker)	WEIGHT:		
	192-4354	Cabinet—Maple, with legs	Gross	132 lbs.	
	192-4364	Cabinet—Walnut, with legs	Nett	112 lbs.	
	192-4374	Cabinet—Teak, with legs	192-4573	Cabinet—Maple	
	192-4504	Cabinet—Rosewood	192-4583	Cabinet—Walnut	
	224-1231	Clip (Use with 837-1122)	192-4593	Cabinet—Rosewood	
	244-0231	Clip (Knob Rear Presets)	192-4603	Cabinet—Teak	
	259-2051	Yoke—Coil Deflection MSP43667	244-0941	Clip (Retaining 517-3511)	
	294-1209	Cover—Cabinet Back	244-1231	Clip (Retaining 837-1122)	
	403-3621	Escutcheon—Control	259-2051	Yoke—Coil Deflection MSP43667	
	403-3631	Escutcheon (Name Trent)	294-1209	Cover—Back Panel	
	403-3651	Escutcheon (Channel Indicator)	403-3631	Escutcheon (For Medallion)	
	403-4413	Escutcheon—Mask			
	403-4582	Escutcheon—Padded (Maple, Walnut, Teak)			

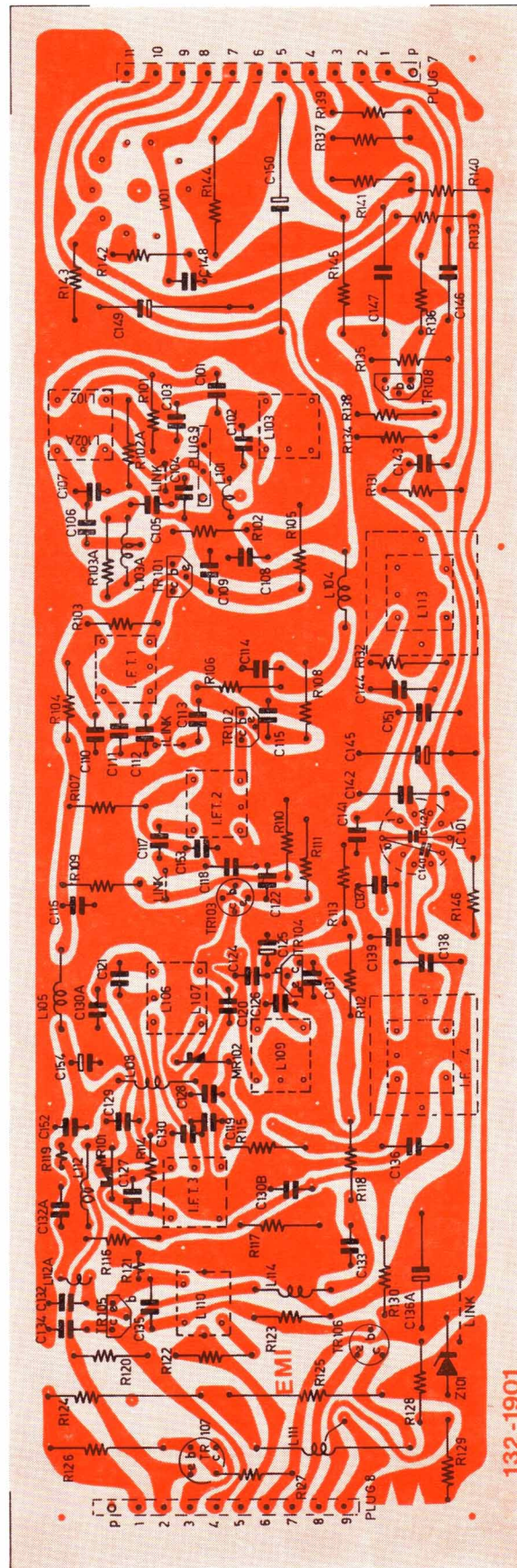
PARTS LIST (continued)

REF.	PART NO.	DESCRIPTION	REF.	PART NO.	DESCRIPTION
PU6 BEVERLY 25" LOWBOY (continued)			PU6-AU 25" CONSOLE (continued)		
	403-3651	Escutcheon—Channel Indicator		794-2471	Scale—Control Indicator
	403-4661	Escutcheon—Mask		801-2191	Screw, 4 x ½", Hex. Head. Type 25 (Retaining 837-1211)
	517-2081	Knob—Preset		814-1741	Screw, 6BA x ½" Cup Point. Cheese Head. (Retaining 794-1581)
	517-2892	Knob—Front Control		831-1553	Speaker, 27 ohms V.C. 7" x 4" PG
	517-3511	Knob—Channel Selector		837-1122	Spindle Extension—Fine Tuning
	561-1432	Medallion—Trade Mark		837-1211	Spindle Extension—Channel Selector
	561-2591	Medallion (Name)		932-2642	Picture Tube—25" Rimband 25TP4
	794-1581	Scale—Channel Indicator Screw 814-1741 6BA x ½", Cup Point. Nut 617-1891 6BA Square	PU6-9G — BARWON 24" CONSOLETTA		
	794-2481	Scale—Control Indicator		Height (including 9" leg)	28¾"
	801-2191	Screw 4 x ½" Hex. Head Type 25 (Retaining 837-1211)		Width	27¾"
	831-1553	Speaker, 27 ohm V.C. 7" x 4" PG		Depth	15¾"
	837-1122	Spindle Extension—Fine Tuning Knob 517-2081		WEIGHT:	
	837-1211	Spindle Extension—Channel Selector		Gross	85 lbs.
	932-2642	Picture Tube—25" Rimband 25TP4		Nett	74 lbs.
CABINET FITTINGS				113-0922	Baffle Assembly (Speaker)
PU6-AU 25" CONSOLE				192-4685	Cabinet—Teak
DIMENSIONS:				224-1231	Clip (Use with 837-1122)
	Height	28½"		294-1209	Cover—Back Panel
	Width	30¾"		403-3621	Escutcheon—Control
	Depth	16-9/16"		403-3631	Escutcheon—Sound Outlet
WEIGHT:				403-3651	Escutcheon—Channel Indicator
	Gross	118 lbs.		403-4413	Escutcheon—Mask
	Nett	103 lbs.		517-2081	Knob—Rear Preset
	192-4533	Cabinet—Maple		517-2892	Knob—Front Control
	192-4543	Cabinet—Walnut		517-3441	Knob—Channel Selector
	192-4553	Cabinet—Rosewood		517-3471	Knob—Channel Indicator
	192-4563	Cabinet—Teak		539-0411	Leg—Teak
	244-0941	Clip (Retaining 517-3511)		561-2172	Medallion—Inlay
	244-1231	Clip (Use with 837-1122)		561-2391	Medallion—H.M.V.
	259-2051	Yoke—Coil Deflection MSP43667		569-2431	Medallion—Trade Mark
	294-1209	Cover—Back Panel		561-2611	Medallion—"Barwon"
	403-3651	Escutcheon—Channel Indicator		617-0331	Nut Spire SFP0211 (Fixing 403-3651)
	403-4661	Escutcheon—Mask		617-1881	Nut Spire 1065/17/0 (Fixing 403-3621)
	517-2081	Knob—Preset		801-2191	Screw, 4 x ½", Hex. Head. Type 25 (Retaining 837-1112)
	517-2892	Knob—Front Control		814-2271	Screw, 4-40 x ⅝", Hex. Head. Type 23 (Use with 517-3471)
	517-3511	Knob—Channel Selector		831-1823	Speaker, 15 ohms V.C. 7" x 4"
	561-1432	Medallion—Trade Mark		837-1112	Spindle Extension—Tuner
	617-0331	Nut Spire SFR-0211 (Retaining 403-3651)		837-1122	Spindle Extension—Fine Tuning
	664-3711	Plate Escutcheon (Retaining 403-3651).		932-3751	Picture Tube, 24" Rimband
	617-1891	Nut—6BA Square (Retaining 794-1581)			
	794-1581	Scale—Channel Indicator			

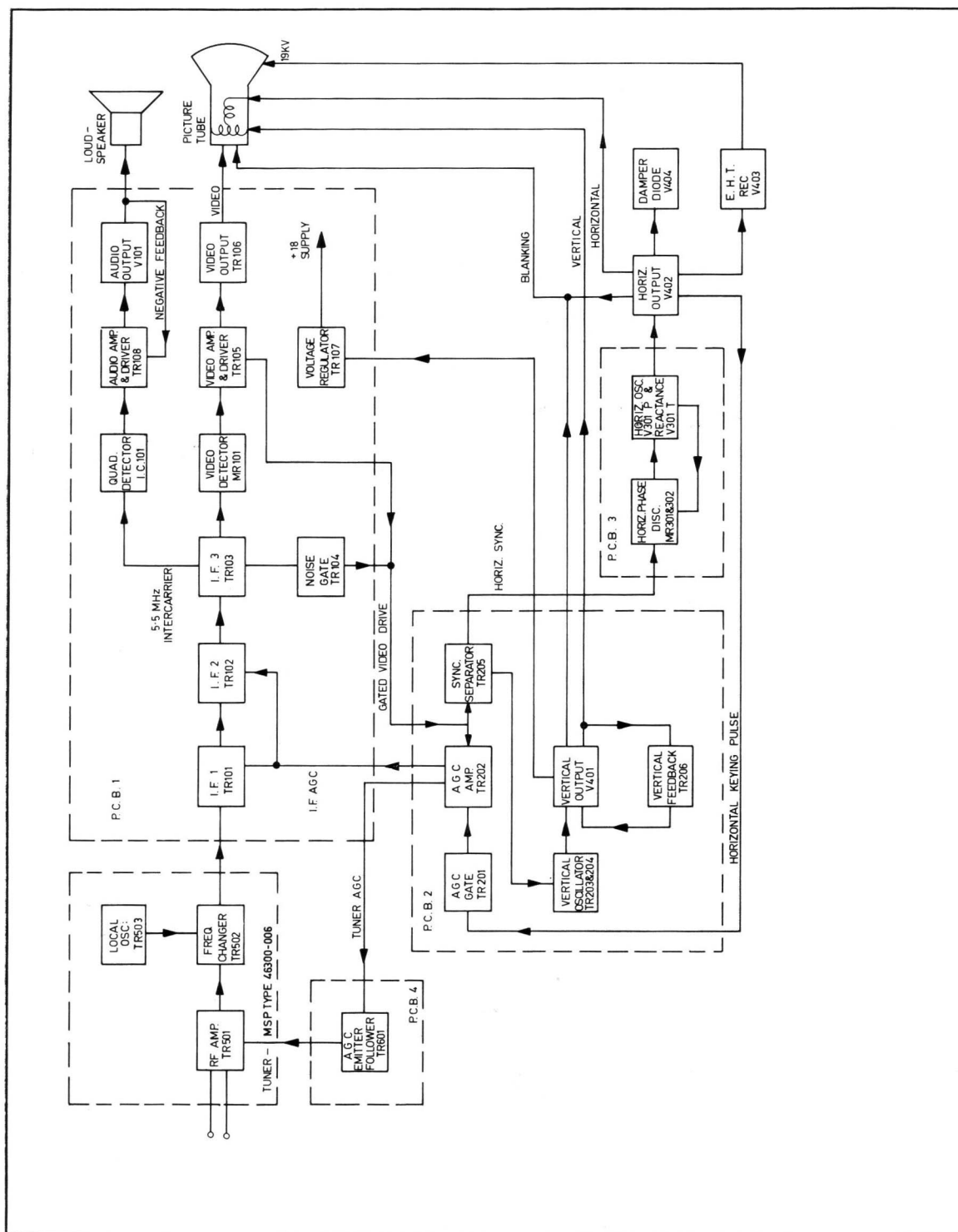


P.C.B.4 TUNER AGC BIAS BOARD (VIEWED FROM COPPER SIDE)

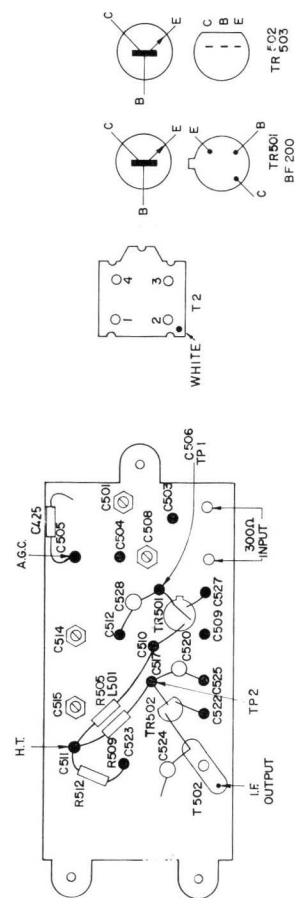




P.C.B.1 SMALL SIGNALS BOARD (VIEWED FROM COPPER SIDE)



BLOCK DIAGRAM



19

A diagram of a clock face with numbers 1 through 12. The clock is oriented with 12 at the top. Labels with arrows point to specific numbers: 'WHITE' points to 1, 'BLACK' points to 2, 'BLUE' points to 3, and 'YELLOW' points to 4. There is also a label 'WHITE' pointing to the number 6.