

# GENERAL ELECTRIC

ELECTRONICS DIVISION

## SERVICE INFORMATION

TELEVISION  
CHASSIS T12V3C

### MODELS

T23L2

T23L3

T25L1

T25C1

### GENERAL INFORMATION . . .

With the exception of picture tubes and loudspeakers, the listed models are all electrically identical. However, there is a slight mechanical variation between the 23" and 25" models in the mechanical arrangement of the outrigger control panels to accommodate the differing control escutcheons.

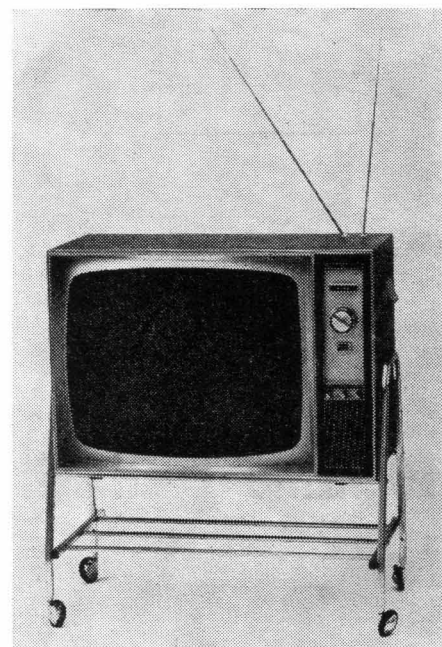
Models	Picture Tube Type
Picture Tubes	
T23L2 } T23L3 }	23GSP4 23FSP4A or equivalent
T25L1 } T25C1 }	25NP4 25SBP4 or equivalent

#### Loudspeakers

The varying types are detailed in the list of replacement parts.

**OPERATING VOLTAGE:** These receivers are designed to operate from a nominal 240V 50 c/s AC supply. To provide for variations in supply voltages three tapings 220V, 240V and 260V are provided on the mains transformer. A clip-terminated wander lead is provided for easy selection of the most appropriate tap. **CAUTION:** Disconnect mains plug before making tap adjustment.

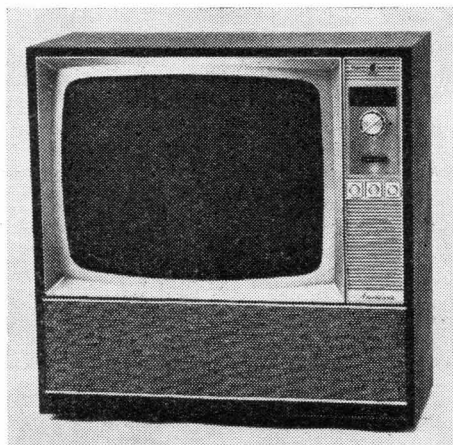
**LOCATION OF COMPONENTS:** Refer to diagram on lid of EHT compartment.



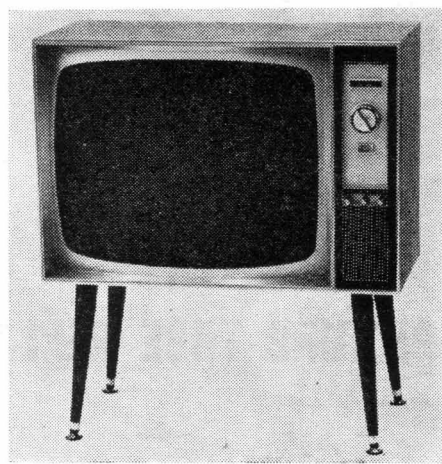
T23L3



T25L1



T25C1

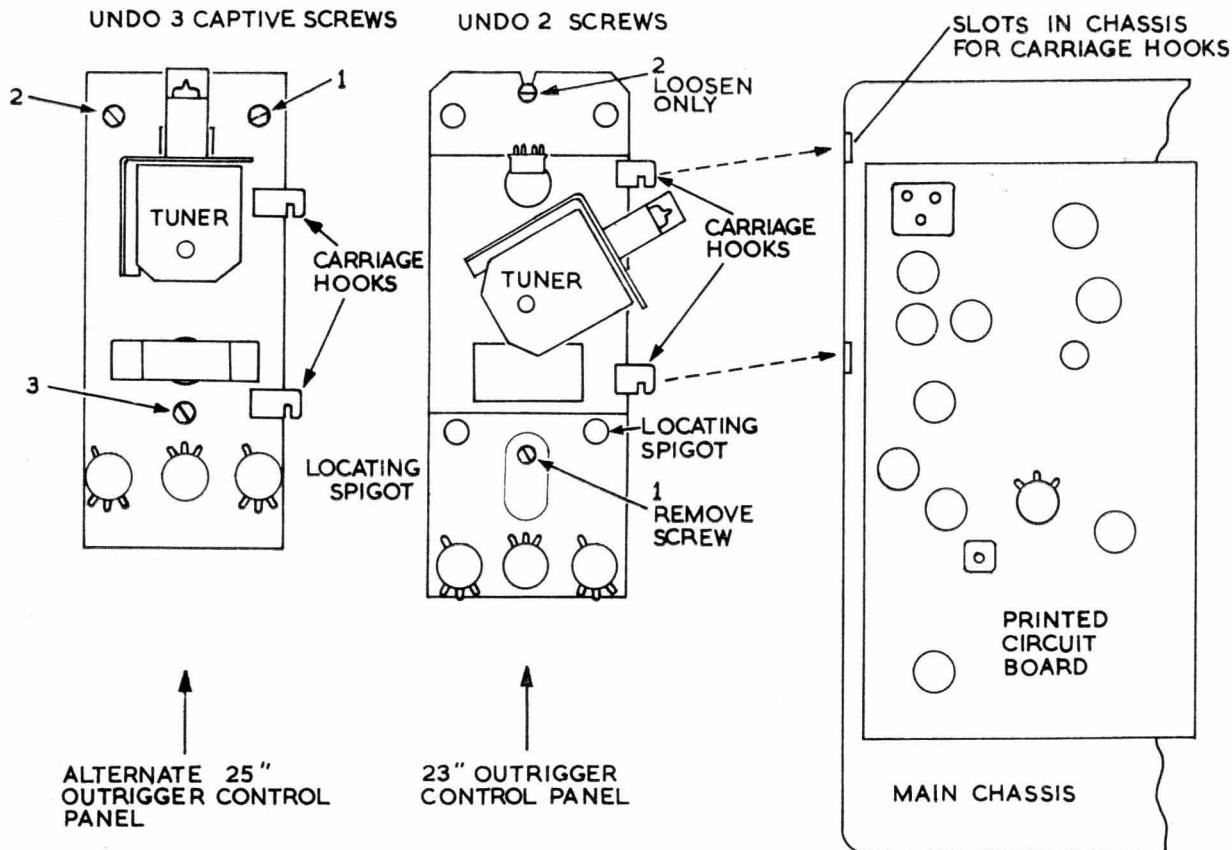


T23L2

**GENERAL ELECTRIC-KIRBY APPLIANCES LTD**  
Electronics Division, 26 Watson Road, Padstow, NSW

Issued May 1966

# DISASSEMBLY PROCEDURE



## TO REMOVE CHASSIS

1. Remove all control knobs except the on-off pushbutton.
2. Disconnect any external leads from the antenna terminal block and remove back cover.
3. Remove two self-tapping screws holding antenna block to cabinet.
4. Remove two screws from the lugs at the top of the main chassis, lower chassis to horizontal position.
5. Disconnect EHT lead from CRT, yoke plug, CRT socket and speaker leads at the speaker.
6. Return chassis to vertical position but do not secure.
7. Loosen and/or remove necessary screws from outrigger control panel (see diag.). Withdraw control panel and mount it on the side of the main chassis using the lugs and slots provided; secure by using a screw from the back cover through the hole provided in the upper lug of the outrigger panel.
8. Lower chassis to about 45° and lift main chassis and control panel out of the brackets. Three legs are provided on the main chassis to allow it to be laid flat for transporting without damage.

Re-assembly is carried out in reverse order to the above procedure, care being taken to ensure that the earthy lead from the audio output transformer (black trace) is connected to the earthy side of the speaker voice coil.

## PICTURE TUBE REPLACEMENT

1. Remove chassis as detailed above.
2. Place receiver face down on a soft protective surface. Raise control panel end of cabinet about 3" with a pillow or soft pad.
3. First remove the CRT securing screw to which is attached the earthing spring. Disconnect the spring and remove the three remaining screws which secure the CRT to the mask.
4. Carefully remove CRT.

NB. Receivers equipped with a 23FSP4 require a 3/32" spacing washer between the picture tube ear and the mask mounting boss. These washers are not required when a 23GSP4 picture tube is used.

In receivers initially fitted with a 23GSP4 the 3/32" spacing washer will be fitted between the bell washer and the picture tube ear against the possibility of future replacement with a 23FSP4.



# LOCATION OF COMPONENTS ON PRINTED BOARD

## Resistors:

R101	K1	R303	J4
R102	K5	R304	M6
R103	L2	R305	I5
R104	M3	R306	J5
R105	M2	R307	J4
R106	M5	R308	I4
R107	L1	R309	B4
R108	N3	R310	I4
R109	N3	R311	I2
R110	O5	R312	H1
R111	O4	R313	H1
R115	P2	R314	I1
R116	P2	R315	H7
R117	O1	R316	G9
R118	O3	R317	J7
R119	P4	R319	L10
R120	P6	R323	J9
R202	B2	R327	H10
R203	B3	R328	H9
R204	C3	R329	H9
R205	D4	R401	O8
R206	F2	R404	G7
R207	D4	R405	I6
R208	E3	R406	F8
R209	E4	R407	F7
R210	E4	R408	C6
R211	H3	R409	D10
R215	G6	R410	B8
R226	G3	R412	D7
R301	J3	R413	B8
R302	J3	R414	B10

## Condensers:

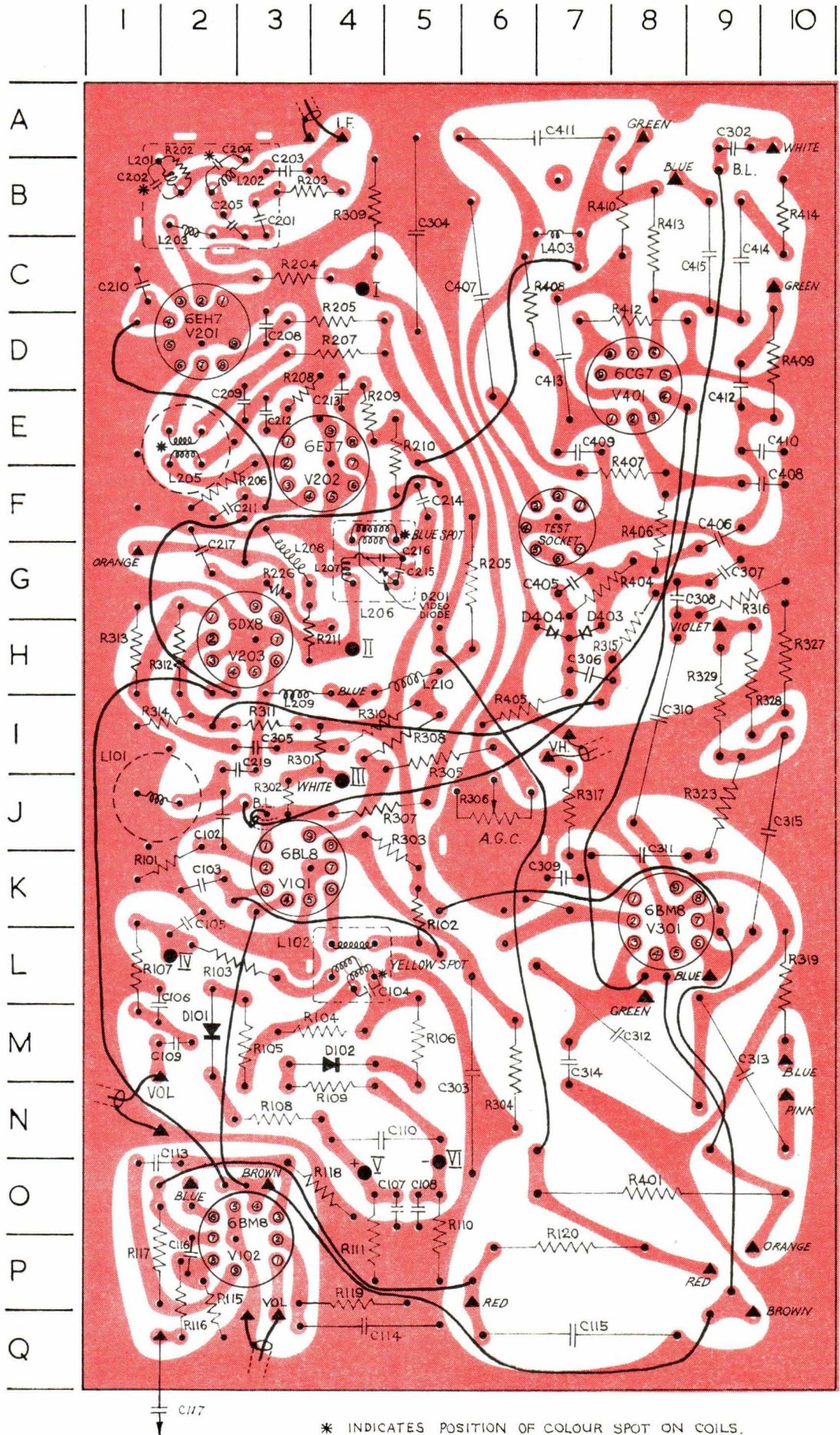
C102	J2
C103	K2
C104	L4
C105	K2
C106	M1
C107	O4
C108	O5
C109	M2
C110	N4
C113	O1
C114	Q4
C115	Q6
C116	P2
C201	B3
C202	B1
C203	B3
C204	B2
C205	B2
C208	D3
C209	E2
C210	C1
C211	F2
C212	E3
C213	E4
C214	F5
C215	G4
C216	G4
C217	G2
C219	I2
C302	A9
C303	M5
C304	B5
C305	I3
C306	H7
C307	G9
C308	G8
C309	K7
C310	I8
C311	K8
C312	M8
C313	M9
C314	M7
C315	J10
C405	G7
C406	F9
C407	C6
C408	F9
C409	E7
C410	E9
C411	A6
C412	E9
C413	D7
C414	C9
C415	C9

## Coils:

L101	J1
L102	L4
L201	B2
L202	B2
L203	B2
L205	E2
L206	G4
L207	G4
L208	G3
L209	I3
L210	H4
L403	C7

## Miscellaneous:

D101	M2
D102	M4
D201	G4
D403	H7
D404	H7



\* INDICATES POSITION OF COLOUR SPOT ON COILS.



## PRESET CONTROLS

**FINE TUNING.** The tuner in the T12V3C chassis has preset fine tuning. This mechanism consists of a gear train which is automatically engaged when the front panel fine tuning control is rotated.

Preset fine tuning means that the fine tuning of the oscillator coil for each channel quite independently. The tuning core of each coil is terminated with a gear wheel which is part of the gear train mentioned above.

### HORIZONTAL HOLD CONTROL

1. Short AFC voltage to ground (bridge pins 5 & 7 on test socket).

2. By-pass the horizontal stabilising coil with a 0.1 mfd 400V condenser connected from the plate end of the stab. coil to earth (connect condenser between pins 3 & 4 of test socket).

3. Float picture with the horizontal hold control.

4. Remove the 0.1 mfd condenser and float the picture by adjusting the core of the horizontal stabilising coil.

5. Remove the short from the AFC line.

N.B. The above adjustments are simplified by using the GE horizontal oscillator test jig which plugs directly into the 7-pin test socket on the printed panel. This test jig (Part No. M96002) which may be purchased through the spare parts department may be used not only with this series of receivers, but also with all earlier General Electric 23" and 25" receivers.

**AGC CONTROL.** To adjust AGC, set tuner on an operating channel with contrast and brightness controls at maximum; turn AGC control anti-clockwise until the onset of overload indicated by an excessively dark picture accompanied by bending and buzz on sound. Turn back the AGC control 5° past the point where overload symptoms disappear.

Reduce brightness to normal and check that picture is maintained over the range of the contrast control. The AGC control should be set on the strongest local signal and rechecked after any adjustment of the horizontal linearity coil.

**HORIZONTAL LINEARITY ADJUSTMENT.** The horizontal linearity coil should be adjusted in conjunction with the yoke centering magnets. The coil has two peaks — the inner peak gives correct geometry and is normally set this way at the factory. The outer peak will increase the width while still maintaining correct geometry.

N.B. It is essential that the chassis is vertical when adjusting the centering magnets.

### VERTICAL SIZE AND LINEARITY ADJUSTMENT

1. Set preset vertical linearity control to its mid position.

2. Adjust vert. size and vertical linearity controls until pattern is reduced 1" from top and bottom of screen.

3. Reduce brightness in order to see the raster outside the top and bottom section of picture.

4. Adjust preset vertical linearity control to ensure that the picture is not overlapping the raster at the top.

5. Adjust vertical linearity control in conjunction with the vertical size control to obtain good overall geometry.

### VIDEO IF ALIGNMENT

1. Apply — 6V bias to the IF AGC Line (test point I).

2. Connect CRO via a 47K resistor to test point II and earth.

3. Turn brightness control to minimum, contrast control to maximum and AGC control fully anti-clockwise.

4. Turn tuner to blank channel.

5. Capacitively couple the output of a suitable IF sweep and marker generator via a half valve shield to the oscillator-mixer (6HG8) in the tuner.

6. Switch set on.

7. Vary the output of the sweep generator to obtain 2V p/p waveform on CRO.

8. In order to obtain the video IF response curve and the marker positions as shown in Fig. 1, proceed as follows:—

a. Remove the — 6V bias.

b. Tune trap coil L201 to 30.5 Mc/s } slugs tuned away.

c. Tune trap coil L202 to 37.5 Mc/s } from printed board

d. Replace the — 6V bias.

e. Tune video detector coil L206 from the top to peak around the 34 Mc/s position at the top of the curve.

f. Tune interstage coil L205 for the 32 Mc/s side of curve.

g. Tune secondary converter L203 in conjunction with the IF transformer on the tuner for 36 Mc/s side as well as rounding off the top of the curve

h. Remove the — 6V bias and re-check trap marker position.

N.B. The 37.5 Mc/s trap has considerably more suction than the 30.5 Mc/s trap. The waveform, with bias removed and these two traps correctly adjusted, is shown in Fig. 2.

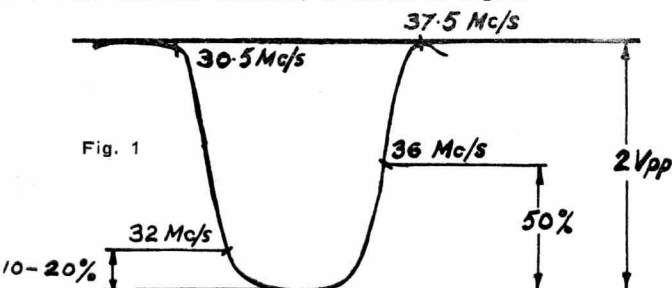
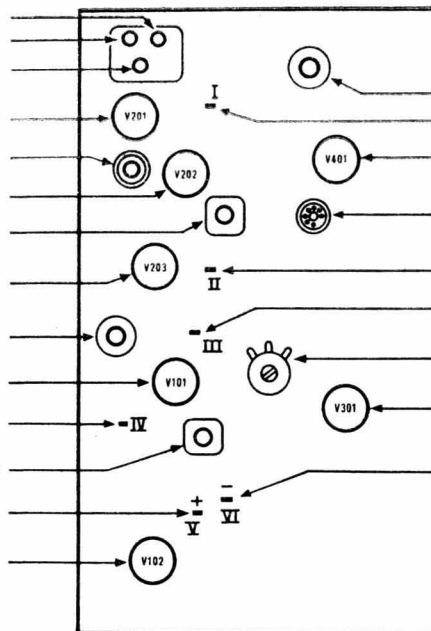


Fig. 1

37.5 MC TRAP  
30.5 MC TRAP  
36 MC SECONDARY CONVERTER  
6EH7 1st VIDEO I F  
I F INTERSTAGE TRANS  
6EJ7 2nd VIDEO I F  
VIDEO DETECTOR TRANSFORMER AND VIDEO DIODE  
6DX8 VIDEO AMP AND SYNC SEPARATOR  
5.5 MC TAKE OFF COIL  
6BL8 5.5 MC I F AMP AND A G C  
RATIO BALANCE TEST POINT  
RATIO DETECTOR TRANS  
RATIO TUNING TEST POINT  
6BM8 AUDIO AMP AND OUTPUT



HORIZONTAL STAR COIL  
A G C TEST POINT  
6CG7 HOR. MULTI VIBRATOR  
HORIZONTAL TEST SOCKET  
VIDEO TEST POINT  
TURNER A G C FEED & TEST POINT (WHITE LEAD)  
A G C POTENTIOMETER  
6BM8 VERT. OSC. AND OUTPUT  
RATIO TUNING TEST POINT

## PRINTED BOARD LAYOUT

T12 V3C CHASSIS

i. Restore the —6V bias and if necessary re-tune coils adjusted in (e) (f) and (g) to obtain the overall response curve of Fig. 1.

### VIDEO IF SENSITIVITY

1. Connect a suitable signal generator correctly terminated and internally modulated 30% at 1000 c/s via an 0.01 mfd capacitor to tuner test point TP1 (see inset on main circuit diagram).

2. Apply —2V bias via a 1 MΩ also to tuner test point TP1. NB. The 1 MΩ resistor should be mounted right at test point.

3. Connect CRO to cathode of the picture tube and use a 0.01 mfd capacitor to by-pass RF interference.

4. Tune generator to peak in the IF pass band and adjust output to obtain 20V pp waveform on CRO.

5. IF sensitivity should be better than 120 μV.

### OVERALL SENSITIVITY CHECK

1. Connect a suitable signal generator internally modulated 30% at 1000 c/s via a matching balun to the 300Ω antenna terminals.

2. Connect a CRO to the cathode of the picture tube and earth. Use an 0.01 mfd capacitor to by-pass RF interference.

3. Tune the signal generator through the pass band of the RF channels until a peak is found for each channel.

4. Adjust the output of the signal generator to obtain a 20V p/p waveform on the CRO.

5. Sensitivity should be better than 40 μV on all channels.

### SOUND TRAP ALIGNMENT

A satisfactory adjustment of the 5.5 Mc/s trap may be obtained without instrumentation as follows:—

1. Select an operating channel.

2. Fine tune receiver toward the sound carrier (onset of sound bars).

3. Adjust L211 (mounted on CRT socket) to minimise appearance of 5.5 Mc/s dots.

### SOUND ALIGNMENT

1. Apply a crystal calibrated 5.5 Mc/s signal to video test point II.

2. Apply —15V bias to IF AGC line (test point I).

3. Connect VTVM to test point V and adjust signal input to maintain 5V at this point.

4. Tune sound take-off coil L101 and primary (bottom slug) and secondary (top slug) of the ratio detector coil L102 to peak, at the same time reducing input signal to maintain 5V at test point V.

5. Increase signal input to give 8 to 9V at test point V.

6. Transfer VTVM to test point IV (input to de-emphasis network) and adjust ratio detector coil secondary (top core) to give zero voltage indication on VTVM.

NB. In the field the ratio detector can be satisfactorily balanced by using a transmitted signal in place of a generator and carrying out the adjustment in 6 above.

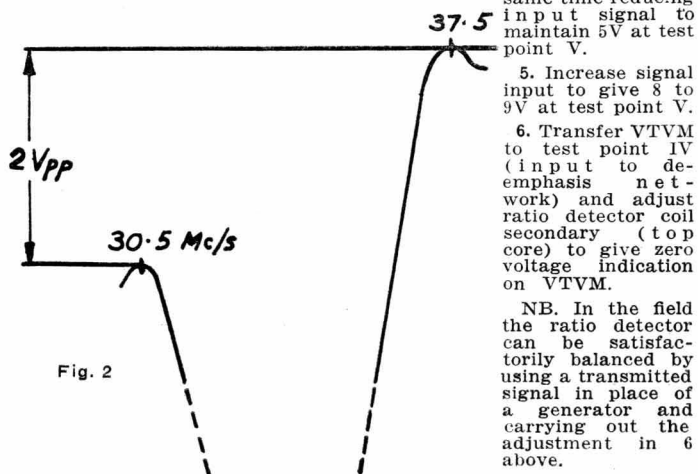
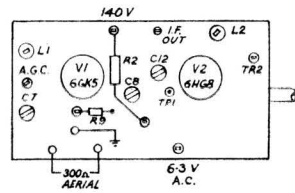


Fig. 2

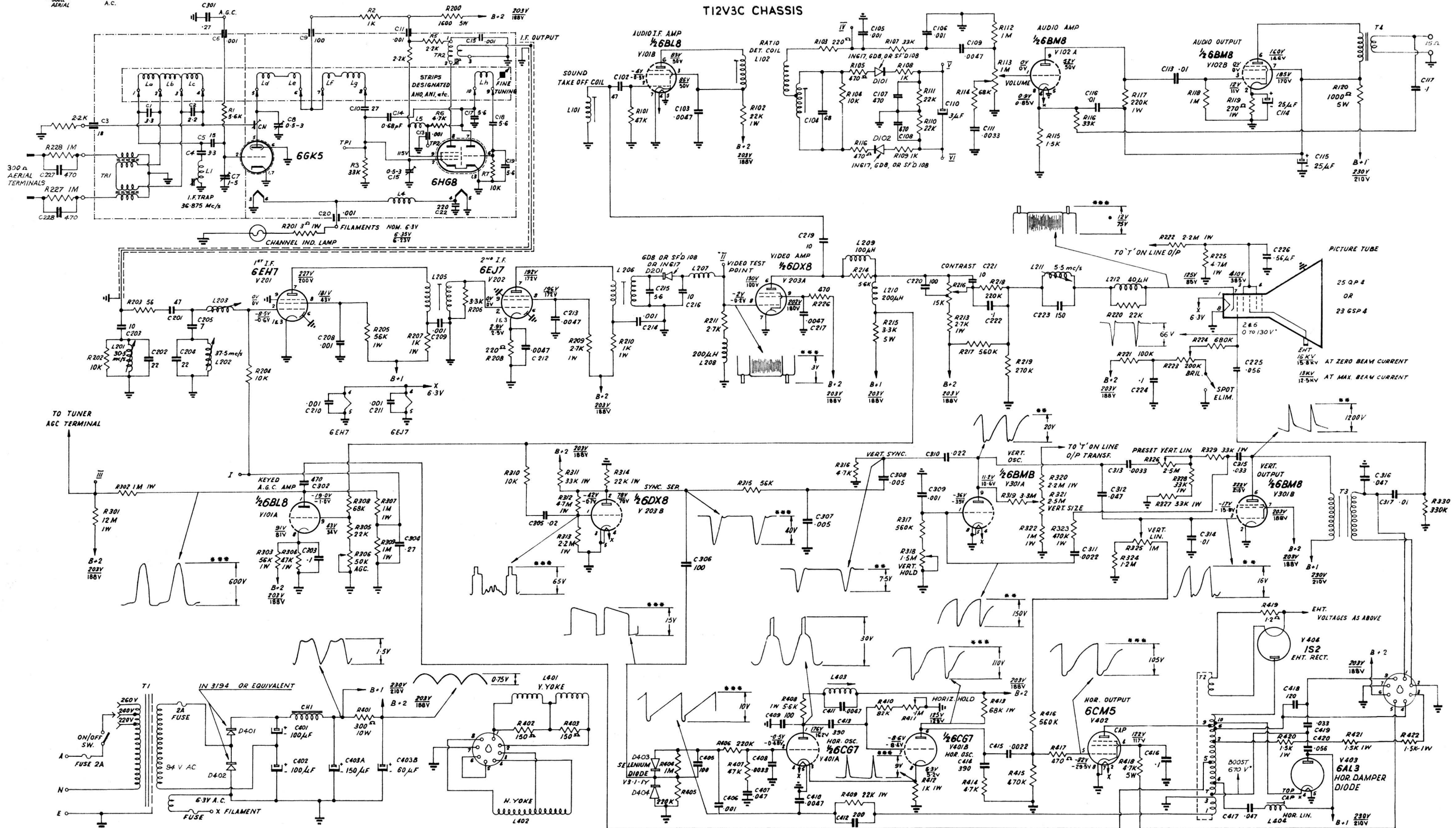


1. ALL VOLTAGE MEASUREMENTS MADE WITH A VACUUM TUBE VOLTMETER IN RESPECT TO CHASSIS GROUND WITH RECEIVER CONTROLS SET FOR NORMAL OPERATION.
2. TWO VOLTAGES ARE SHOWN WHERE ON-SIGNAL AND OFF-SIGNAL MEASUREMENTS VARY. ON-SIGNAL VOLTAGE APPEARS IN ITALICS OVER THE OFF-SIGNAL VOLTAGE.
- ON-SIGNAL VOLTAGES ARE TAKEN WITH RECEIVER CONTROLS SET FOR NORMAL OPERATION OF NOISE FREE PICTURE.
- OFF-SIGNAL VOLTAGES TAKEN WITH ANTENNA DISCONNECTED AND ANTENNA TERMINALS SHORTED. WAVE SHAPES SHOWN TAKEN WITH SIGNAL.



### T12V3C CHASSIS

3. WITH LINE VOLTAGE MAINTAINED AT 240 V. A.C. MEASUREMENTS SHOWN MAY DEVIATE  $\pm 10\%$
4. RESISTANCE MEASUREMENTS MADE WITH COMPONENTS DISCONNECTED.
5. \*\* SCOPE SYNCED AT VERTICAL FREQUENCY.
6. \*\*\* SCOPE SYNCED AT HORIZONTAL FREQUENCY.
7. \* INDICATES VARIATION WITH CONTROL SETTING.
8. UNLESS OTHERWISE STATED: RESISTORS ARE  $\frac{1}{2}$  WATT  $K=1,000$   $M=1,000,000$ .
9. IF NOT STATED: CAPACITORS GREATER THAN  $1 \mu F = \mu F$ . CAPACITORS LESS THAN  $1 \mu F = pF$ .



SPARE PARTS LIST

MODELS T23L2,  
T23L3, T25L1 and T25C1

SPECIAL RESISTORS

Part No.	Symbol	Description
B25006	R120	1000 Ω 5W W/W 5% AB or PW5
B25018	R200	1600 Ω 5W W/W 5% PW5
B25007	R215	3.3K 5W W/W 5% AB or PW5
B25012	R401	300 Ω 10W W/W 5% AB or PW10
B25008	R418	4.7K 5W W/W 5% AB or PW5
B25009	R419	1.2 Ω BW½ 10%

POTENTIOMETERS

Part No.	Symbol	Description
B23070	R113	Volume control 1M Ω tapped 400K log. taper 20%.
B23066	R216	Contrast control 15K tapped 10K.
B23067	R223	Brightness control 200K linear.
B23071	R306	AGC control 50K linear Tab. mounting.
B23068	R318	Vertical hold control 1.5 MΩ linear Tab. mounting 20%.
B23083	R321	Vertical size control 2.5 M Ω linear Tab. mounting.
B23082	R325	Vertical linearity control 1MΩ linear Tab. mounting.
B23083	R326	Preset vertical linear control 2.5 MΩ linear Tab. mounting.
B23069	R411	Horizontal hold control 0.1 M Ω linear Tab. mounting 20%.

CONDENSERS CERAMIC

Unless otherwise stated, values less than 1 in Microfarads.  
Values greater than 1 in Picofarad = Micro-Microfarads.

Part No.	Symbol	Description
B18034	C102	47 pf 500V 5% N750 CDS
B18001	C103	0.0047 mfd 500V —20% + 50%
	C104	Part of L102 assembly
B18005	C105	0.001 mfd 500V HIK ‘B’ 20%
B18005	C106	0.001 mfd 500V HIK ‘B’ 20%
B18004	C107	470 pf 500V 20% C322BC/P470E
B18004	C108	470 pf 500V 20% C322BC/P470E
B18015	C109	0.0047 mfd 500V HIK ‘D’ 20%
B18041	C111	0.0033 mfd 500V —20% + 50%
B18042	C113	0.011 mfd 500V —20% + 50%
B18007	C116	0.01 mfd 500V HIK ‘DY’ 20%
B18034	C201	47 pf 500V 5% N750 CDS
	C202	Part of L201 assembly
B18018	C203	10 pf CDS 500V NPO ‘A’ 10%
	C204	Part of L202 assembly
B18071	C205	7 pf 500V CDS ‘A’ ± .25 pf N.P.O.
B18005	C208	0.001 mfd 500V CDS HIK ‘B’ 20%
B18005	C209	0.001 mfd 500V CDS HIK ‘B’ 20%
B18005	C210	0.001 mfd 500V CDS HIK ‘B’ 20%
B18005	C211	0.001 mfd 500V CDS HIK ‘B’ 20%
B18001	C212	0.0047 mfd 500V —20% + 50%
B18001	C213	0.0047 mfd 500V —20% + 50%
B18005	C214	0.001 mfd 500V CDS HIK ‘B’ 20%
	C215	Part of L206 assembly
	C216	
B18001	C217	0.0047 mfd 500V —20% + 50%
B18018	C219	10 pf CDS 500V NPO ‘A’ 10% ..
B18017	C220	100 pf 500V 10% C304AH/A100E
B18018	C221	10 pf CDS 500V NPO ‘A’ 10%
B18087	C223	150 pf 5% N750 ‘C’
B18069	C227	470 pf 10% 2 KV CDH type BY
B18069	C228	470 pf 10% 2 KV CDH type BY
B18013	C302	470 pf CDH 2 kV HIK ‘C’ 20%
B18027	C305	0.02 mfd GMV 500V CDS ‘E’
B18017	C306	100 pf 500V 10% C304AH/A100E
B18019	C307	0.005 mfd CDS 500V HIK ‘DY’ 20%
B18019	C308	0.005 mfd CDS 500V HIK ‘DY’ 20%
B18005	C309	0.001 mfd 500V CDS HIK ‘B’ 20%
B18007	C314	0.01 mfd 500V HIK ‘DY’ 20%
B18007	C317	0.01 mfd 500V HIK ‘DY’ 20%
B18017	C405	100 pf 500V 10% C304AH/A100E
B18005	C406	0.001 mfd 500V 20% HIK ‘B’
B18006	C408	0.0033 mfd 500V ‘CY’ HIK
B18017	C409	100 pf 500V 10% C304AH/A100E
B18015	C410	0.0047 mfd 500V HIK ‘D’ 20%
B18029	C412	200 pf 500V 10% N750
B12001	C413	390 pf Mica 500V SM 10%
B12001	C414	390 pf Mica 500V SM 10%
B18039	C418	120 pf 3 kV N750 ‘D’ 5%

CONDENSERS FOIL IN MICROFARADS

Part No.	Symbol	Description
B14040	C117	0.1 mfd 200V 20% TFC Terathene
B14061	C222	0.1 mfd 400V 20% DFK 424 Polyester
B14061	C224	0.1 mfd 400V 20% DFK 424 Polyester
B14002	C225	0.056 mfd 400V 20% TPB 461 Paper
B14036	C226	0.56 mfd 600V 20% TPB 673 Paper
B14058	C301	0.27 mfd 160V 10% DFK 117 Polyester
B14061	C303	0.1 mfd 400V 20% DFK 424 Polyester
B14058	C304	0.27 mfd 160V 10% DFK 117 Polyester
B14020	C310	0.022 mfd 1000V 20% TPB 1056 Paper
B14030	C311	0.0022 mfd 1000V 20% DFB 1016 Paper
B14062	C312	0.047 mfd 630V 10% DFK 620 Polyester
B14027	C313	0.0033 mfd 2000V 20% TPB 2046 Paper
B14034	C315	0.033 mfd 1600V 10% TPB 1558 Paper
B14032	C316	0.047 mfd 600V 20% TPB 660 Paper
B14062	C407	0.047 mfd 630V 10% DFK 620 Polyester
B14059	C411	0.0047 mfd 400V 10% DFK 408 Polyester
B14060	C415	0.0022 mfd 400V DFK 404 Polyester
B14061	C416	0.1 mfd 400V 20% DFK 424 Polyester
B14025	C417	0.047 mfd 1000V 10% TPB 1060 Paper
B14026	C419	0.033 mfd 1000V 10% TPB 1058 Paper
B14022	C420	0.056 mfd 1000V 10% TPB 1061 Paper

MISCELLANEOUS AND APPEARANCE PARTS

Models T23L2 and T23L3

Part No.	Description
B74019	Tuner unit
B50264	} Knob channel chrome-plated
B49035	
B50263	Insert (aluminium/silver) for channel knob
B50263	Knob fine-tuning
B50270	Knob volume—contrast—brightness
B49017	] Disc fine-tuner coupling front
B49019	
B80060	] Disc fine-tuner coupling rear
B80060	
B80060	Clip fine-tuner discs (3)
B49021	Disc channel indicator
B79236	Knob on/off
B50258	Control panel die-cast
B57045	Mask 23” die-cast
B92412	Cabinet body metal blackwood (maple)
B29418	Cabinet body metal walnut
B59066	Leg plastic 12” long maple
B59065	Leg plastic 12” long walnut
B84074	Back cover T23L2
B84077	Back cover T23L3
B55024	Cover picture tube
B97036	Loudspeaker 6” x 4”
B79169	Antenna rod (T23L3)
B61014	Switch on/off and spot eliminator
B91001	Channel indicator bulb 6.3V 0.3A E/S
M79240	Printed circuit panel complete with valves
NB. Bracketed parts are not sold separately.	

MISCELLANEOUS AND APPEARANCE PARTS

Models T25L1 and T25C1

Part No.	Description
B74019	Tuner unit
B50268	} Knob channel gold-plated
B49036	
B49036	Insert (aluminium/gold) for channel knob
B50269	Knob fine-tuning
B50265	Knob volume—contrast—brightness
B49034	} Insert for volume—contrast—brightness knobs
B79236	
B49030	] Disc fine-tuner coupling front
B49031	
B80060	] Clip fine-tuner discs (3)
B49033	
B57042	Disc channel indicator
B57042	Mask and control panel 25” moulded
B84074	Back cover
B55024	Cover picture tube
B59062	Leg moulded square 10” long maple T25L1
B59063	Leg moulded square 10” long walnut T25L1
B59064	Leg moulded square 10” long rosewood T25L1
B97036	Loudspeaker 6” x 4” T25L1
B97037	Loudspeaker 9” x 6” T25C1
B61014	Switch on/off and spot eliminator
B91001	Channel indicator bulb 6.3V 0.3A E/S
M79240	Printed circuit panel complete with valves
NB. Bracketed parts are not sold separately.	

CONDENSERS ELECTROLYTIC

Part No.	Symbol	Description
B16031	C110	3 mfd 50V DCW ET0104T
B16014	C114	25 mfd 50V DCW ET1XT 25/50
B16036	C115	25 mfd 300V DCW ET3005T
B16034	C401	100 mfd 200V DCW EMG 1089 STM
B16033	C402	100 mfd 200V DCW EMG 1810 TM
B16035	C403A	150 mfd 350V DCW
	C403B	60 mfd 300V DCW
		EMG 1802 TM

COILS AND TRANSFORMERS

Part No.	Symbols	Description
B00053	L101	Sound take-off coil
B00054	L102	Ratio detector transformer (yellow dot)
B33055	L102	Shield can for L102
B00058	L201	30.5 Mc/s trap (blue dot)
B00059	L202	37.5 Mc/s (yellow dot)
B00057	L203	Secondary converter coil
B00056	L205	Video IF interstage (green dot)
B00055	} L206	Video detector coupling (blue dot)
B33055		Shield can for L206
	L207	Peaking coil part of L206 assembly
B00016	L208	Peaking coil 200 μH (white dot)
B00020	L209	Peaking coil 100 μH includes R214 (yellow dot)
B00016	L210	Peaking coil 200 μH (white dot)
B00052	L211	5.5 Mc/s trap
B00049	L212	Peaking coil 40 μH includes R220
B08008	L401	} Yoke assembly { vertical deflection coils
	L402	
	L403	} horizontal deflection coils
B00060	L404	
B00061	L404	Horizontal stabilising coil
B02001	CH1	Horizontal linearity coil
B03016	T1	HT filter choke
B03016	T1	Power transformer
B04026	T2	Horizontal output transformer
B04027	T3	Vertical output transformer
B04028	T4	Audio output transformer
NB. Bracketed parts are not supplied separately.		

COMMON RESISTORS IN OHMS

Carbon ¼W 10% unless noted  
K = 1000 M = Megohms

Symbol	Description	Symbol	Description	Symbol	Description
R101	47K	R214	5.6K integral	R319	3.3M 1W
R102	22K 1W		with L209	R320	2.2M 1W
R103	220	R217	560K	R322	1M 1W
R104	10K	R218	220K	R323	470K 1W
R105	470	R219	270K	R324	1.2M
R106	470	R220	22K integral	R327	33K 1W
R107	33K		with L212	R328	33K 1W
R108	1K	R221	100K	R329	33K 1W
R109	1K	R222	2.2M 1W	R330	330K
R110	22K	R224	680K	R402	150 Part of
R111	22K	R225	4.7M 1W		deflection
R112	1M	R226	470 10%		yoke assy.
R114	68K	R227	1M 20%	R403	As above
R115	1.5K	R228	1M 20%	R404	1M
R116	33K	R301	12M 1W	R405	220K
R117	220K 1W	R302	1M 1W	R406	220K
R118	1M	R303	56K 1W	R407	47K
R119	270 1W	R304	47K 1W	R408	5.6K 1W
R201	3 1W	R305	22K	R409	22K 1W
R202	10K	R307	1M 1W	R410	82K
R203	56K	R308	68K	R412	1K 1W
R204	10K	R309	1M 1W	R413	68K 1W
R205	56K 1W	R310	10K	R414	4.7K
R206	3.3K	R311	33K 1W	R415	470K
R207	1K 1W	R312	4.7M 1W	R416	560K
R208	220	R313	2.2M 1W	R417	470
R209	2.7K 1W	R314	22K 1W	R420	1.5K 1W
R210	1K 1W	R315	56K	R421	1.5K 1W
R211	2.7K	R316	4.7K	R422	1.5K 1W
R213	2.7K 1W	R317	560K		