A. W. A. TELEVISION RECEIVER

34 CHASSIS *

FAULT FINDING CHART

THIS CHART IS DESIGNED TO ASSIST IN SERVICING THE 34 SERIES CHASSIS AND IS ONLY TO BE USED AS A GUIDE TO FAULT DIAGNOSIS.
FAULTS INDICATED HAVE ONLY OCCURRED INFREQUENTLY AND CANNOT BE CLASSED AS "STOCK FAULTS".

SYMPTOMS	CAPACITORS					RESISTORS				VALVES TRANSFORMER COILS				MISCELLANEOUS		
	NUMBER	CAPACITANCE	O/C	S/C	LEAKY	NUMBER	RESISTANCE	O/C	HIGH	NUMBER	TYPE	O/C	S/TURNS		O/C	S/C
Raster Faults:																
No Raster	C407	270pf	X	X	X	R424	IK	X		6CG7/V402	Horiz. osc.			IN1763/MR402	X	
	C410	.0012	X	X	X	R222	470	X		6CM5/V403	Horiz. output			(IN3194/MR402)	X	
	C413	.0012	X	X		R415	3.9K	X		6AU4/V404	Damper-diode					
	C415	2		X						1B3/V405	E.H.T. Rectifier					
	C416	.47		X						6EB8/V204A	Video-Amp.					
	C417	.047		X						CRT/V206	Picture-tube					
	C418	68pf		X												
	C225	.01		X						TR401	Horiz. osc. coil	X	X			
	C226	.1		X						RT402	Horiz. output Trans.	X	X			
										L403	Horiz. linearity coil	X				
										L406/407	Deflection yoke	X	X			
Vert. Stretching top + bottom.	C320	.0068		X												
Foldover on L/H. side of CRT	C416	.047	X													
Insufficient width with dark vert. bars on L/H. side	C417	.047	X													
Insufficient width	C422	.5		X		RV401B	IM	Faulty		6CM5/V403				IN1763/MR401	X	
	C415	2	X							6AU4/V404				(IN3194/MR401)	X	
	C410	.0012			X											
	C420	270pf		X	X											
	C421	.15		X												
	C418	68pf			X											
	C427	200	X													
	C426	200	X													
Severe cramping and foldover at bottom top stretched	C325	.047		X	X					6EM5/V302	Vert. output					
	C319	.1			X											
Foldover at bottom + top stretched	C322	.1		X	X											
Slight cramping at bottom	C326A	10	X													
Cramping at bottom + top stretched	C326B	50	X			R334	47K	X	X							
Cramping at top + bottom	C317	4			X	R329	IM		X							
Slight bottom stretch	C317	4	X													
Horizontal Key stoning										L406 or L407	Horiz. deflec. coils	X				
Horizontal osc., buffer + phase-disc. stage																
Horiz. frequ. low	C405	.047		X	X	R402	33K		X							
	C404	390pf		X	X	R407	180K		X							
	C403	.0015		X												
Horiz. frequ. high	C402	150pf		X	X					6CG7/V402	Horiz. osc. + buffer					
	C407	270pf			X											
Gear wheel effect at top half of picture, varying with horiz. hold setting	C405	.047	X													
Vertical oscillator and output stage																
No vert. deflection	C314	.0068		X	X	R325	680K		X	TR301	Vert. osc. Transf.	X	X			
	C317	4		X	X					TR302	Vert. o/p. Transf.	X	X			
	C318	.012		X	X					L404 or L405	Vert. deflect. coils	X				
	C319	.1		X												
Vert. osc. off frequ.	C314	.0068			X	R325	680K		X							
Synchronisation - stage																
No synch.	C303	.022		X	X	R312	IM	X		6HS8/V301	A6C+synch-sep.					
	C304	.0039		X	X	R315	IM	X	X	6EB8/V204B	Synch-Amp.					
	C308	.033	X	X	X											
	C309	.001	X													
	C312	.01	X	X	X											
Weak synch. with horiz. pulling	C310	330pf	X													
Weak synch.	C306	24	X													
	C307	330pf	X													
No horizontal synch.	C401	150pf		X						6AL5/V401						
	C404	390pf		X												
	C406	470pf		X												
Weak vert. synch.	C313	.027		X												

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SYMPTOMS	CAPACITORS					RESISTORS				VALVES TRANSFORMER COILS				MISCELLANEOUS		
	NUMBER	CAPACITANCE	O/C	S/C	LEAKY	NUMBER	RESISTANCE	O/C	HIGH	NUMBER	TYPE	O/C	S/TURNS		O/C	S/C
Picture Faults:																
Smeary picture										L207	Peaking coil	X				
Very smeary picture with low contrast	C227	.47	X													
Very smeary picture										L205	Peaking coil	X				
Poor H.F. response						R217	3.9K		X							
No picture but weak sound										L204	Peaking coil	X				
No picture, no sound	C16	.001		X						6HG8/V2	Mixer-osc.					
	C17	.001		X						6BZ6/V201	1st I.F. Amp.					
										6EW6/V202	2nd I.F. Amp.					
										6CB6/V203	3rd I.F. Amp.					
										6EB8/V204A	Video-Amp.					
Snowy Picture	C301	.1		X		R302	4.7M		X	6ES8/V1	R.F. Amp.					
	C203	.0047		X						6BZ6/V201	1st I.F. Amp.					
	C8	220pf		X												
	C9	100pf		X												
	C10	.001		X												
Weak picture no snow										TR201	I.F. Transf. sec.	X				
No picture very weak sound										TR202	I.F. Transf. prim.	X				
Very weak picture and sound no snow										TR202	I.F. Transf. sec.	X				
Sound - Stage:																
No Sound	C112	.039	X							6AU6/V101	Sound I.F. Amp.			Audio-o/p. Transf.	X	
	C113	.01	X							6AL5/V102	Ratio-Detector			TR102		
	C114	.047	X							6AV6/V103	Voltage-Amp.					
	C104	.0033		X						6AQ5/V104	Audio-Output					
Weak sound	C104	.0033			X											
	C105	100pf			X											
	C113	.01	X													
	C114	.047	X													
	C116	10	X													
	C117	.0022	X													
Weak sound + buzzing	C104	.0033	X													
Very bad distortion						R116	680		X							
Picture shrinks horiz. when brightness control turned fully clockwise, hum present in sound	C428	150	X													
Severe cramping at L/H. side when brightness-control turned fully clockwise, uncontrollable brightness, very weak signal, weak or no synch., hum in sound						R427	150		X							
Keeps blowing H.T. fuses										TR403	Horiz. feedback Trans.	Faulty		IN1763/MR401/402		X
														IN3194/MR401/402		X
Low brightness	C425	270pf			X											
	C316	2			X											
Low brightness, snowy picture, loss of synch.	C412	2.2pf		X	X											
Bottom creeps up after ½ hour of running											Deflection yoke	Faulty				
Uncontrollable - brightness						R349	100K		X	CRT/V206	Picture-tube					
Snowy Raster for about 1 - 2 minutes then picture comes on										6HG8/V2	Osc. - Mixer					
Uncontrollable width	C414	.01		X												

N.B. Capacitors are marked in MFD. unless otherwise stated.
Resistors " " " Ohms " " "

* THIS CHART CAN GENERALLY BE APPLIED TO THE 36 SERIES CHASSIS PROVIDING CARE IS USED IN CHECKING THE CODE NUMBER OF COMPONENTS AND REMEMBERING THERE ARE CIRCUIT DIFFERENCES.

January, 1966.

A.W.A. TV TECHNICAL INFORMATION

Some months ago a comprehensive Fault Finding Chart, covering AWA 34 Series T.V. Chassis, was issued. Since the chart was compiled several "hard to find" faults have occurred in a few chassis. Details of these faults are listed below and should be used in conjunction with the previous chart. It must be stressed that the faults have only occurred infrequently and cannot be classed as "stock faults".

The charts may also be used for 34-40, 34-50, 36, 36-50 and 36-70 Series chassis. These chassis are only minor variations on the original 34 and 36 Series.

SYMPTOMS	FAULT
Vertical Wavy Patterning	C217 470PF O/C
Picture Blacks out with high A.G.C. and Video Amp Grid Voltages	C217 470PF O/C
White raster no sound	C306 24uf or .5uf S/C
White raster with traces of picture	C419 560PF S/C
Low Brightness	C331 .1uf leaky
Vertical Lin. Pot. Arcing	Change to 50K pot., VDR 302 may be intermittent O/C
Picture creeping up from bottom	V205B 6CG7
Top Cramp	R333 330K High

CIRCUIT A.W.A. TELEVISION RECEIVER CHASSIS–34 SERIES (Tuner Circuit see over)

ERRATA.

R204 at junction of C207 and C208 should read R205.
R420 connected to Focus control should read R422.

CIRCUIT VARIATIONS

On some early chassis:

C110 was 0.0068μf 600VW paper capacitor 226223.

C115 was 25μf 25VW Electrolytic capacitor 222914.

C306 was 0.5μf ± 20% 200VW Hunts W48 capacitor 229116.

C330 was 0.001 μf + 100% — 0% Hi-K tubular capacitor 225010 from wiper of Brightness Control to earth.

C331 was 0.047μf ± 10% 1000VW paper capacitor 226831 and connected to terminal 3 of TR402.

R230 was 680K ohms ± 10% 1 watt resistor 617669 from kinescope cathode to ground.

R345 was 330K ohms ± 10% 1 watt resistor 617111 in which case R349 was missing.

R348 was 470K ohms ± 10% ½ watt resistor 617356.

MR202 was a GD8 diode now replaced by R231.

Changes since circuit was drawn:

R306 and RV303 have now been deleted.

R340 is now a 1 Megohm resistor.

A.G.C. ADJUSTMENT.

N.B.: Three different procedures are provided to cover the three following circuit arrangements that have been used in this chassis series.

A. Partial D.C. coupled kinescope with no black level adjustment. (Identified by no Black Level control on the pre-set control panel at rear.)

B. Partial D.C. coupled kinescope with black level adjustment. (Identified by Black Level control on the pre-set control panel but no diode in kinescope cathode circuit.)

C. D.C. coupled kinescope. (Identified by Black Level control and diode and kinescope cathode circuit.)

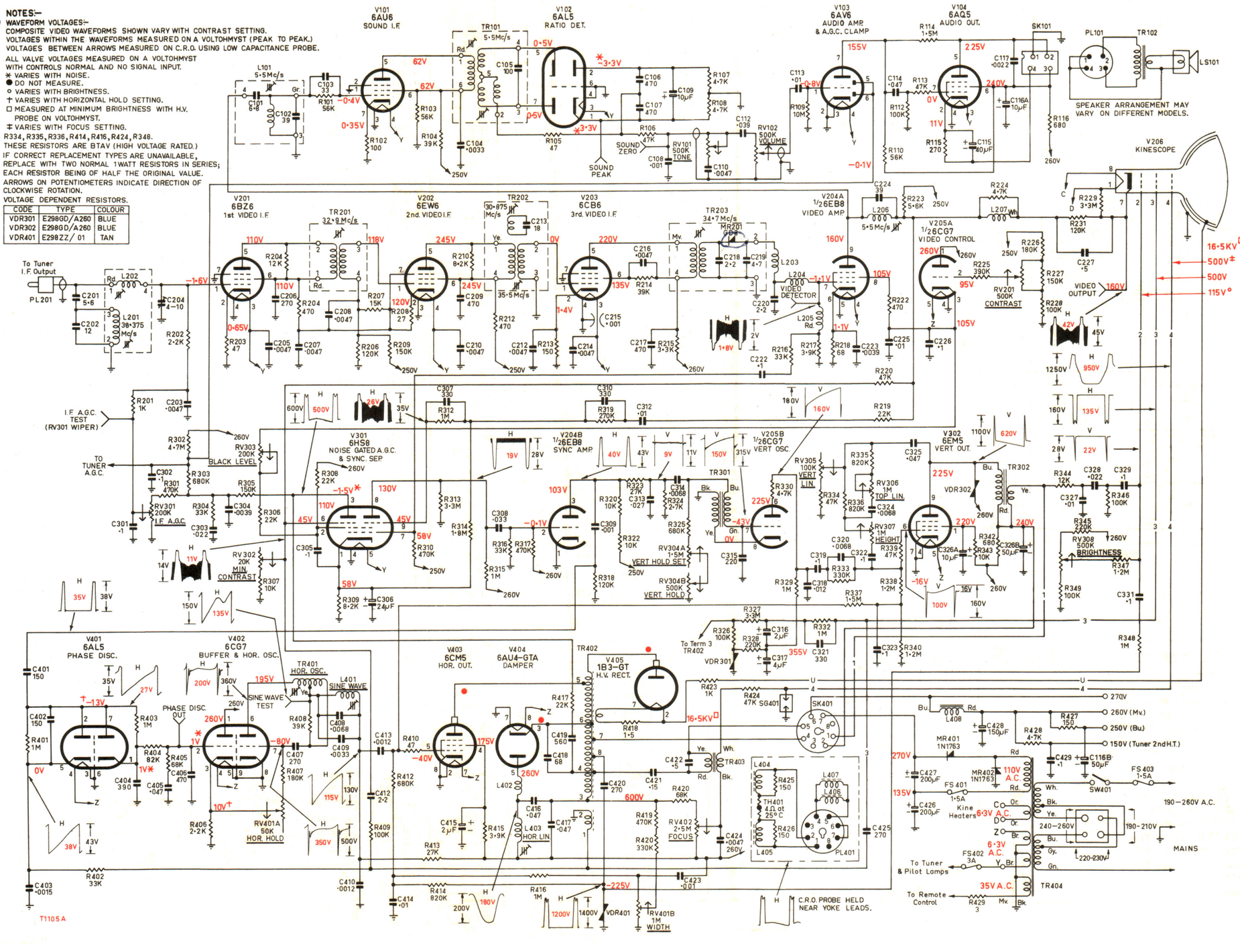
Procedure for Case A above:

1. Set the Min. Contrast and IF A.G.C. controls at their mid-positions.
2. Tune the receiver to a channel of medium strength (1mV) or suitable attenuated strong signal.
3. Set the Contrast control to minimum (fully anti-clockwise).
4. Adjust the Min. Contrast control to give 15 volts p-p at the kinescope cathode.
5. Adjust Contrast control to increase this to 20 volts p-p.
6. Adjust the I.F. A.G.C. for snow threshold. A clockwise rotation increases snow.

Procedure for Case B is identical with that above with Black Level control initially set fully clockwise.

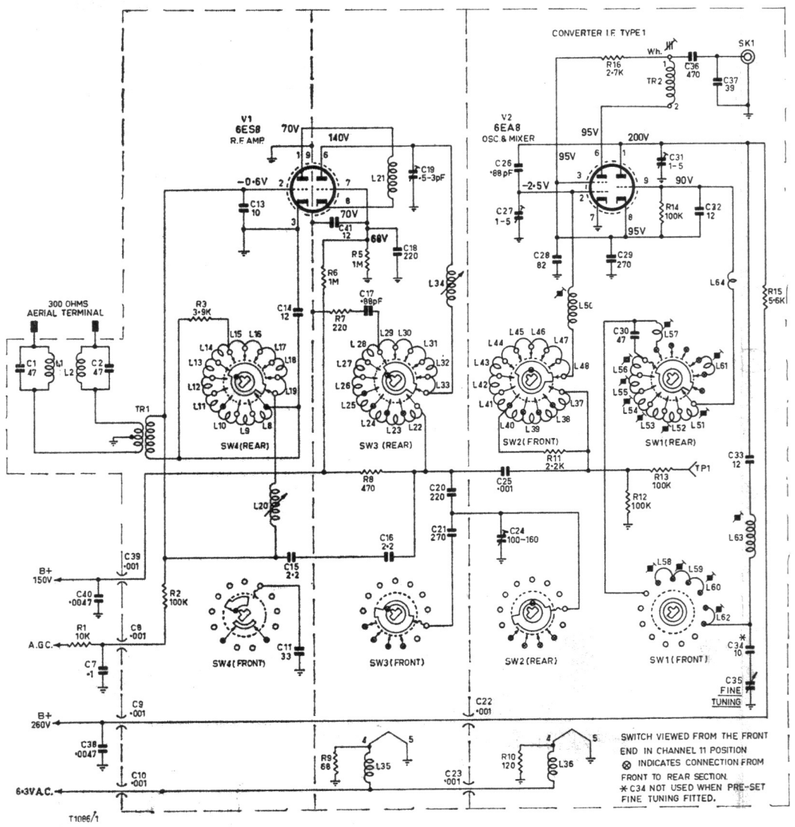
Procedure for Case C:

1. Set Min. Contrast, Black Level and I.F. A.G.C. controls to their mid-positions.
2. Adjust the Contrast control to obtain 20 volts p-p at the kinescope cathode and if necessary adjust the Min. Contrast control to obtain this figure.
3. Adjust Brightness control for normal brightness and adjust the I.F. A.G.C. control for snow threshold. A clockwise rotation of the I.F. A.G.C. control increases snow.
4. Carry out steps 5 and 6 with Brightness control fully anti-clockwise (minimum brightness).
5. (a) Check that the blanking level remains fairly constant, as viewed on a D.C. coupled C.R.O. connected to the kinescope cathode, as the Contrast control is rotated. If blanking level is constant proceed to step 6, if not, rotate the Black Level control by small increments, say 30°, and check results. N.B.: A more clockwise setting of the Black Level control results in a shift towards white as the Contrast control is rotated from minimum to maximum.
   (b) If a D.C. coupled C.R.O. is unavailable the constancy of the blanking level can be judged by observing that the black area of the picture on the kinescope remains constant as the Contrast control is varied.
6. Having obtained constant blanking level, adjust the Min. Contrast control to obtain 15 volts p-p at the kinescope cathode with the Contrast control at minimum. A clockwise rotation of the Min. Contrast control increases the output.
7. Check step 5 and repeat if necessary.



FIELD TEST SHEET

MF1H (43446), MF1L (43442) and MF1M (43981) TYPE TUNER



COMPONENT REPLACEMENTS

ITEM		PART or CODE No.
L101	Sound I.F.	43336
L201	38.375 Mc/s Trap	43580
L202	Video I.F. Input	
L203	Detector Filter	40323
L204	Detector Filter	49671
L205	Detector Peaking Coil 250μH	40117
L206	5.5 Mc/s Trap	43593
L207	Video Amp. Series Peaking	41423
L401	Sine Wave	40050
L402	H.F. Choke 1.5 μH	214516
L403	Horizontal Linearity	43264
L404-7	Yoke with chassis behind kinescope	43660
	with chassis under kinescope	43661
L408	H.T. Filter	40113F
TR101	Ratio Detector	40077
TR102	Speaker Transformer	see Chart
TR201	1st Video I.F.	40902
TR202	2nd Video I.F.	41407
TR203	3rd Video I.F.	41933
TR301	Vertical Blocking Oscillator	43643A
TR302	Vertical Output	43340A
TR401	Horizontal Blocking Oscillator	41579
TR402	Horizontal Output	43646
TR403	Horizontal Feedback	43344A
TR404	Power Transformer	see Chart
RV101	500K ohms Curve "F" Carbon, Tone W/S	see Chart
RV102	500K ohms Curve "C" Carbon, Volume	see Chart
RV201	500K ohms Linear Carbon, Contrast	see Chart
RV301	200K ohms Linear Carbon, I.F. A.G.C.	620487
RV302	20K ohms Linear Carbon, Min. Contrast	620262
RV303*	200K ohms Linear Carbon, Black Level	620487
RV304A	1.5 Megohm Linear Carbon, Vert. Hold Set	620774
RV304B	500K ohms Linear Carbon, Vert. Hold	
RV305	100K ohms Linear Carbon, Vert. Linearity	620322
RV306	1 Megohm Linear Carbon, Top Linearity	620769
RV307	1 Megohm Linear Carbon, Height	620769
RV308	500K ohms Linear Carbon, Brightness	see Chart
RV401A	50K ohms Linear Carbon, Hor. Hold	620861
RV401B	1 Megohm Linear Carbon, Width	
RV402	2.5 Megohms Linear Carbon, Focus	620781
C109	10μF 25VW Electrolytic	228771
C115	40μF 16VW Electrolytic	229552
C116A	10μF 450VW Electrolytic	229612
C116B	50μF 350VW Electrolytic	
C306	24μF 500VW Electrolytic	229319
C316	2μF 500VW Electrolytic	227922
C317	4μF 500VW Electrolytic	228188
C326A	10μF 450VW Electrolytic	229612
C326B	50μF 350VW Electrolytic	
C415	2μF 300VW Electrolytic	227923
C426	200μF 200VW Electrolytic	229751
C427	200μF 200VW Electrolytic	229751
C428	150μF 400VW Electrolytic	229739

*Note: RV303 deleted on latest models. (See A.G.C. Alignment over.)

D.C. RESISTANCE OF WINDINGS

WINDING	D.C. RESISTANCE IN OHMS
Tuner Windings	*
L101 Sound I.F.	1.3
L201 38.375 Mc/s Trap	*
L202 Video I.F.	*
L203 Detector Filter Choke	4
L204 Detector Filter Choke	*
L205 Detector Peaking Coil	6
L206 5.5 Mc/s Trap	1.5
L207 Video Amp. Series Peaking	5
L401 Sine Wave Coil	55
L402 H.F. Choke	*
L403 Horizontal Linearity Coil	7
L404 Deflection Yoke	2.5
L405 Deflection Yoke	2.5
L406 Deflection Yoke	17
L407 Deflection Yoke	17
L408 H.T. Filter Choke	40

WINDING	D.C. RESISTANCE IN OHMS
TR101 Ratio Detector	
Primary	9.5
Secondary	1
TR102 Speaker Transformer	
Primary	500
Secondary	2
TR201 1st Video I.F.	
Primary 1-2	*
Secondary 3-4	*
TR202 2nd Video I.F.	
Primary 1-4	*
Secondary	*
TR203 3rd Video I.F.	
Primary	*
Secondary	*
TR301 Vertical Oscillator Transformer	
Primary Bu-Gn	525
Secondary Ye-Bk	140

WINDING	D.C. RESISTANCE IN OHMS
TR302 Vertical Output Transformer	
Primary Bu-Rd	350
Secondary Rd-Ye	1
TR401 Horizontal Oscillator Transformer	
Primary Ye-Anode	24
Secondary Ye-C405	88
TR402 Horizontal Output Transformer	
Primary 3-5	23
Secondary 4-7	7
Tertiary 5-Top Cap	415
Tertiary 1-2	1.5
TR403 Horizontal Feedback Transformer	
Primary Ye-Rd	1.8
Secondary Wh-Bk	450
TR404 Power Transformer	
Primary Gn-Wh	10
Secondary Rd-Rd	4
Motor Winding	2

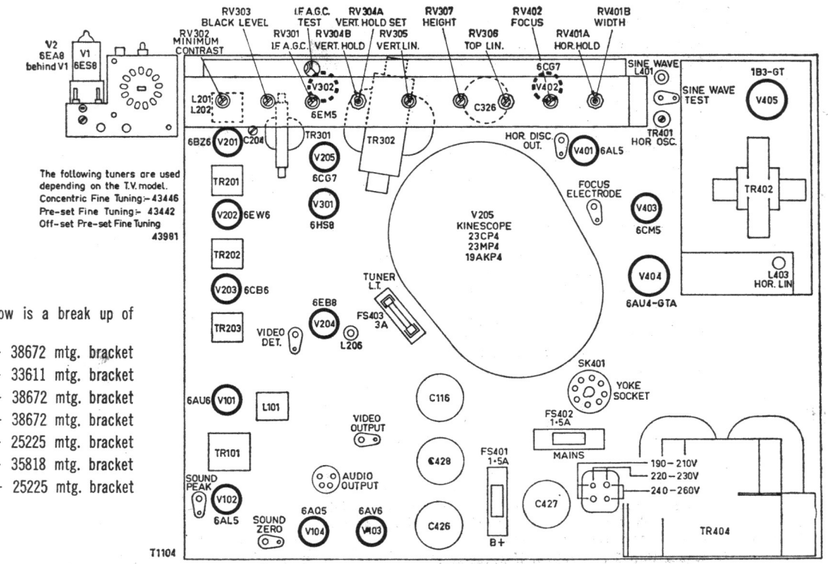
* Less than 1 ohm.

The above readings were taken on a standard chassis, but substitution of materials during manufacture may cause variations, and it should not be assumed that a component is faulty if a slightly different reading is obtained.

MODEL AND CHASSIS DESIGNATION 34 SERIES TV RECEIVERS

MODEL No.	CHASSIS No.	TUNER	KINESCOPE	SPEAKER(S)	TRANSFORMERS		POTENTIOMETERS				KNOBS			
					SPEAKER	POWER	POWER-TONE	VOLUME	BRIGHTNESS	CONTRAST	CHAN. SEL.	TUNING	VOLUME	VERT. HOLD
1X	34-11	43446	23MP4	6″ x 4″ 50172	50545C	43261C	620662	620628	620544	620544	43119	41518	41520	42846
2V	34-12	43446	23MP4	7″ x 5″ 50173	50545D	43261C	620651	620556	620540	620540	43119	41518	60103	42846
3Y 3Z	34-12 34-00	43446	23CP4	6″ x 4″ 50172	50545C	43261C	620651	620556	620540	620540	43119	41518	60103	42846
4Z	34-13	43446	23CP4	7″ x 5″ 50173	50545D	43261C	620651	620556	620540	620540	43119	41518	60103	42846
5Z	34-14	43446	23CP4	6″ x 4″ 50174	50545E	43261C	620547	620546	620545	620545	43780	41369	42644	42846
D12T	34-15	43442	23CP4	9″ x 6″ 50176	50545D	43261C	620658	620553	620542	620542	43412	42151	42644	42846
D50Z	34-00	43442	23CP4	9″ x 6″ 50177 4″ 50069	51785A	43261C	620658	620553	620542	620542	43412	42151	42644	42846
D51Z	34-01	43442	23CP4	9″ x 6″ 50153 4″ 50069	51785A	43504B	620658	620553	620542	620542	43412	42151	42644	42846
D52 D52Y	34-00 34-03	43981	23CP4	9″ x 6″ 50178 4″ 50007	50537C	43261C	620547	620546	620545	620545	43850	43852	43852	42846
D7T	34-07	43442	19AKP4	6″ x 4″ 50175	50545D	43261D	620660	620592	620543	620543	42283A	42151	42205A	42846
D53Y	34-04	43981	23CP4	9″ x 6″ 50178 4″ 50007	50537C	43261C	620547	620546	620545	620545	43897	43911	43911	42846
D54Y	34-06	43981	23CP4	9″ x 6″ 50178 4″ 50007	50537C	43261C	620547	620546	620545	620545	43850	43852	43852	42846
D55Y	34-08	43981	23CP4	9″ x 6″ 50178 4″ 50007	50537C	43261C	620547	620546	620545	620545	43850	43852	43852	42846
D56	34-02	43981	23CP4	9″ x 6″ 50117 4″ 50007	50537B	43504B	620547	620546	620545	620545	43850	43852	43852	42846
244R	34-05	43442	19AKP4	6″ x 4″ 50175	50545D	43261D	620660	620592	620543	620543	42283	42151	42205	42846

CHASSIS LAYOUT



The following tuners are used depending on the T.V. model.
Concentric Fine Tuning – 43446
Pre-set Fine Tuning – 43442
Off-set Pre-set Fine Tuning 43981

N.B.: Some of the speakers listed above are assemblies, below is a break up of those involved.

50172 = 6″ x 4″ speaker 50021 + 50545C transformer + 38672 mtg. bracket
50173 = 7″ x 5″ speaker 50023 + 50545D transformer + 33611 mtg. bracket
50174 = 6″ x 4″ speaker 50021 + 50545E transformer + 38672 mtg. bracket
50175 = 6″ x 4″ speaker 50021 + 50545D transformer + 38672 mtg. bracket
50176 = 9″ x 6″ speaker 50117 + 50545D transformer + 25225 mtg. bracket
50177 = 9″ x 6″ speaker 50117 + 51785A transformer + 35818 mtg. bracket
50178 = 9″ x 6″ speaker 50117 + 50537C transformer + 25225 mtg. bracket
50153 = 9″ x 6″ speaker 50117 + 2μf 200VW capacitor

CIRCUIT A.W.A. TELEVISION RECEIVER CHASSIS–34-50 SERIES (Tuner Circuit see over)

A.G.C. ADJUSTMENT

Set the Min. Contrast and I.F. A.G.C. controls at their mid positions.

Set the Contrast and A.G.C. controls at their maximum clockwise positions.

With no signal input, short circuit the plate to screen of V202 (2nd Video I.F.) and adjust the A.G.C. Comp. Set control (RV309) to give + 130V D.C. at the plate of V207B (A.G.C. Compensator). Remove the short circuit.

Tune the receiver to a channel of medium strength (1mV) or suitable attenuated strong signal.

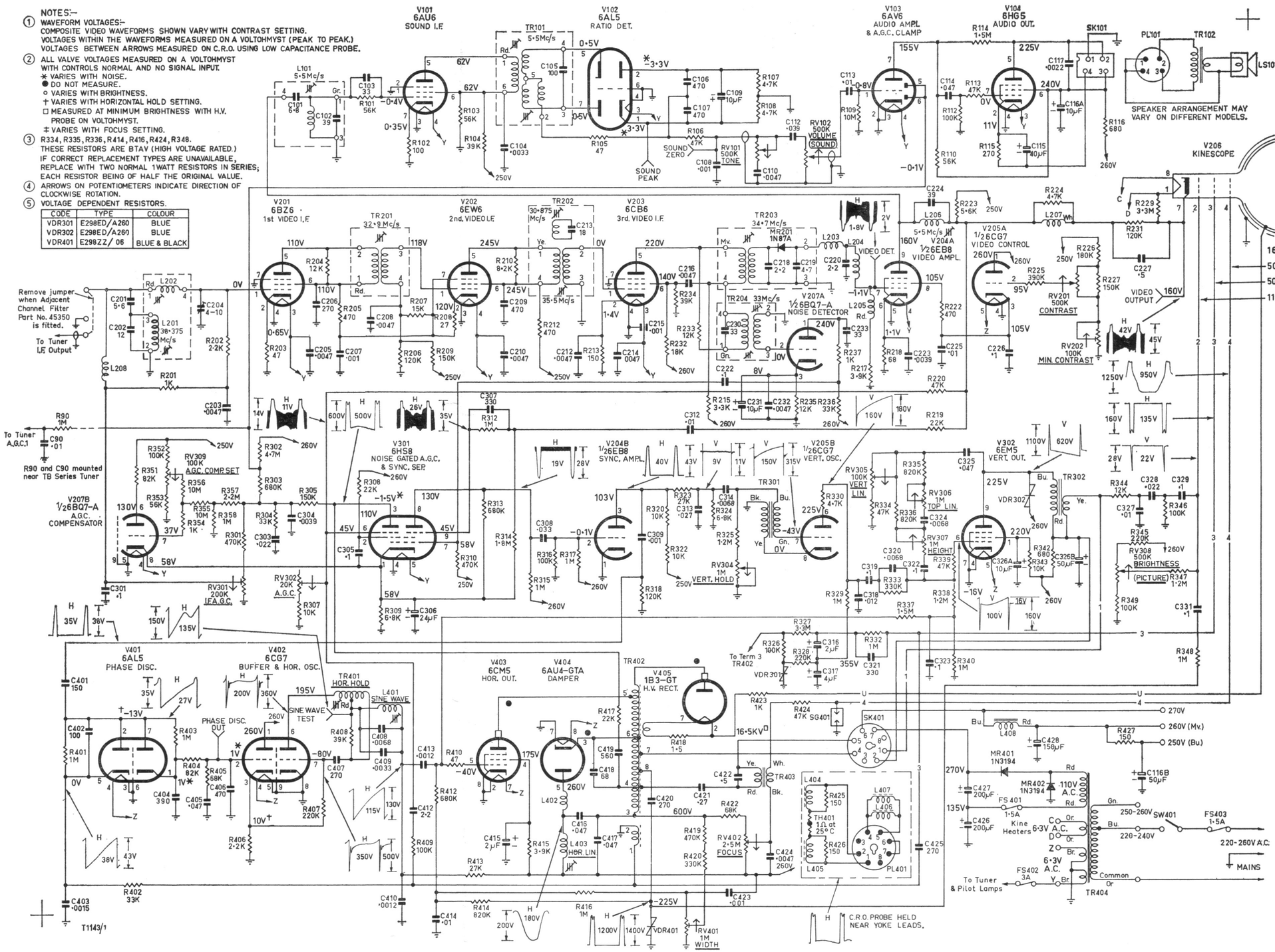
Set the fine tuning and with the Contrast control at maximum contrast adjust the A.G.C. control (RV302) for sync. clipping in the video amplifier and then back off until clipping stops.

Set the Contrast control for minimum contrast and adjust the Min. Contrast control to give 20 volts P-P at the kinescope cathode. Adjust the Brightness control for normal brightness and the I.F. A.G.C. control for snow thresh-hold.

NOTES:–

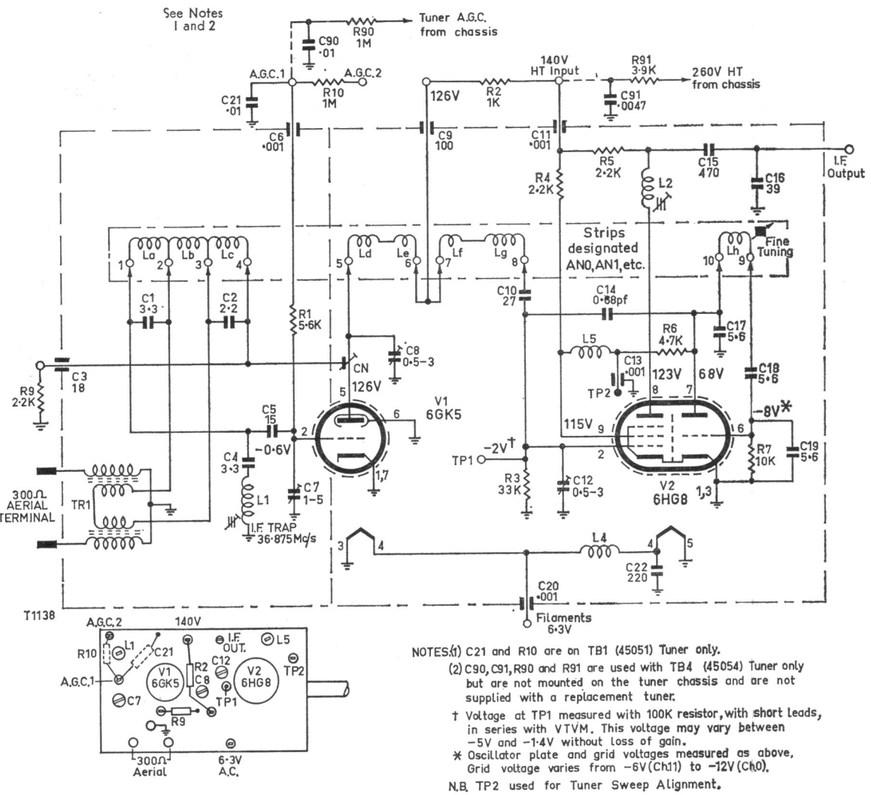
1. WAVEFORM VOLTAGES:– COMPOSITE VIDEO WAVEFORMS SHOWN VARY WITH CONTRAST SETTING. VOLTAGES WITHIN THE WAVEFORMS MEASURED ON A VOLTOHMYST (PEAK TO PEAK.) VOLTAGES BETWEEN ARROWS MEASURED ON C.R.O. USING LOW CAPACITANCE PROBE.
2. ALL VALVE VOLTAGES MEASURED ON A VOLTOHMYST WITH CONTROLS NORMAL AND NO SIGNAL INPUT.
   - ✱ VARIES WITH NOISE.
   - ● DO NOT MEASURE.
   - ○ VARIES WITH BRIGHTNESS.
   - + VARIES WITH HORIZONTAL HOLD SETTING.
   - □ MEASURED AT MINIMUM BRIGHTNESS WITH H.V. PROBE ON VOLTOHMYST.
   - ‡ VARIES WITH FOCUS SETTING.
3. R334, R335, R336, R414, R416, R424, R348. THESE RESISTORS ARE BTAV (HIGH VOLTAGE RATED.) IF CORRECT REPLACEMENT TYPES ARE UNAVAILABLE, REPLACE WITH TWO NORMAL 1WATT RESISTORS IN SERIES; EACH RESISTOR BEING OF HALF THE ORIGINAL VALUE.
4. ARROWS ON POTENTIOMETERS INDICATE DIRECTION OF CLOCKWISE ROTATION.
5. VOLTAGE DEPENDENT RESISTORS.

CODE	TYPE	COLOUR
VDR301	E298ED/A260	BLUE
VDR302	E298ED/A260	BLUE
VDR401	E298ZZ/06	BLUE & BLACK



FIELD TEST SHEET

TB4 (45054) NEUTRODE TURRET TUNER



NOTES: (1) C21 and R10 are on TB1 (45051) Tuner only.

(2) C90, C91, R90 and R91 are used with TB4 (45054) Tuner only but are not mounted on the tuner chassis and are not supplied with a replacement tuner.

† Voltage at TP1 measured with 100K resistor, with short leads, in series with VTVM. This voltage may vary between −5V and −14V without loss of gain.

* Oscillator plate and grid voltages measured as above, Grid voltage varies from −6V (Ch11) to −12V (Ch0).

N.B. TP2 used for Tuner Sweep Alignment.

COMPONENT REPLACEMENTS

	ITEM	PART or CODE No.
L101	Sound I.F.	43336
L201	38.375 Mc/s Trap	43580
L202	Video I.F. Input	
L203	Detector Filter	40323
L204	Detector Filter	49671
L205	Detector Peaking Coil 250µH	40117
L206	5.5 Mc/s Trap	43593
L207	Video Amp. Series Peaking	41423
L401	Sine Wave	52150
L402	H.F. Choke 1.5 µH	214516
L403	Horizontal Linearity	43264
L404-7	Yoke	43660
L408	H.T. Filter	40113C
TR101	Ratio Detector	40077
TR102	Speaker Transformer	see Chart
TR201	1st Video I.F.	40902
TR202	2nd Video I.F.	41407
TR203	3rd Video I.F.	41933
TR204	Noise Detector	43338
TR301	Vertical Blocking Oscillator	43643A
TR302	Vertical Output	43340A
TR401	Horizontal Hold	45295
TR402	Horizontal Output	43646
TR404	Power Transformer	51893A
RV101	500K ohms Curve "C" Carbon, Tone	see Chart
RV102	500K ohms Curve "C" Carbon, Volume	see Chart
RV201	500K ohms Linear Carbon, Contrast	see Chart
RV202	100K ohms Curve "A" Carbon, Min. Contrast	620322
RV301	200K ohms Curve "A" Carbon, I.F. A.G.C.	620487
RV302	20K ohms Curve "A" Carbon, A.G.C.	620262
RV304	1 Megohm Curve "A" Carbon, Vert. Hold	600786
RV305	100K ohms Curve "A" Carbon, Vert. Linearity	620322
RV306	1 Megohm Curve "A" Carbon, Top Linearity	620769
RV307	1 Megohm Curve "A" Carbon, Height	620769
RV308	500K ohms Curve "A" Carbon, Brightness,	see Chart
RV309	100K ohms Curve "A" Carbon, A.G.C. Comp. Set	620322
RV401	1 Megohm Curve "A" Carbon, Width	600769
RV402	2.5 Megohms Curve "A" Carbon, Focus	620781
C109	10µF 25VW Electrolytic	228771
C115	40µf 16VW Electrolytic	229552
C116A	10µF 450VW } Electrolytic	229612
C116B	50µF 350VW }	
C306	24µF 80VW Electrolytic	229319
C316	2uF 500 VW Electrolytic	227922
C317	4µF 500VW Electrolytic	228188
C326A	10µF 450VW } Electrolytic	229612
C326B	50µF 350VW }	
C415	2µF 300VW Electrolytic	227923
C426	200µF 200VW Electrolytic	229751
C427	200uF 200 VW Electrolytic	229751
C428	150µF 400VW Electrolytic	229739

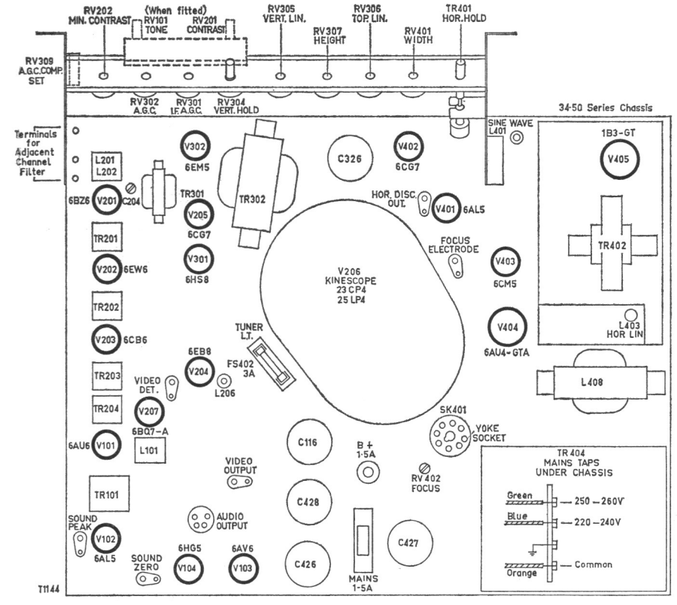
MODEL AND CHASSIS DESIGNATION 34-50 SERIES TV RECEIVERS

MODEL No.	CHASSIS No.	TUNER	KINESCOPE	SPEAKER(S)	TRANSFORMERS		POTENTIOMETERS				KNOBS			
					SPEAKER	POWER	TONE	VOLUME	BRIGHTNESS	CONTRAST	CHAN. SEL.	TUNING	VOLUME	TONE
D73	34-51	45054	25LP4	9" x 6" 50260 4" 50007	52436C	51893A	620556	620532	620533	620540	45111	45178	45115	45116
D75	34-51	45054	23CP4	6" x 4" 50268	52448D	51893A	620556	620532	620533	620540	45111	45343	45115	45116
D76	34-52	45054	23CP4	9" x 6" 50260 4" 50007	52436C	51893A	620556	620455	620454	620540	45187	45194	45184	45116
D79	34-51	45054	25LP4	7" x 5" 50267	52448D	51893A	620556	620532	620533	620540	45111	45178	45115	45116

N.B.: Some of the speakers listed above are assemblies. Below is a break up of those involved.

50260 = 9" x 6" speaker 50229 + 52436C transformer + 25225 mtg. bracket
50268 = 6" x 4" speaker 50215 + 52448D transformer + 38672 mtg. bracket
50267 = 7" x 5" speaker 50093 + 52448D transformer + 33611 mtg. bracket

CHASSIS LAYOUT



D.C. RESISTANCE OF WINDINGS

	WINDING	D.C. RESISTANCE IN OHMS
Tuner Windings		*
L101	Sound I.F.	1.3
L201	38.375 Mc/s Trap	*
L202	Video I.F.	*
L203	Detector Filter Choke	4
L204	Detector Filter Choke	*
L205	Detector Peaking Coil	6
L206	5.5 Mc/s Trap	1.5
L207	Video Amp. Series Peaking	5
L401	Sine Wave Coil	55
L402	H.F. Choke	*
L403	Horizontal Linearity Coil	7
L404	Deflection Yoke	2.5
L405	Deflection Yoke	2.5
L406	Deflection Yoke	17
L407	Deflection Yoke	17
L408	H.T. Filter Choke	40

	WINDING	D.C. RESISTANCE IN OHMS
TR101	Ratio Detector	
	Primary	9.5
	Secondary	1
TR102	Speaker Transformer	
	Primary	500
	Secondary	2
TR201	1st Video I.F.	
	Primary 1-2	*
	Secondary 3-4	*
TR202	2nd Video I.F.	
	Primary 1-4	*
	Secondary	*
TR204	Noise Detector	
	Primary	*
	Secondary	*
TR203	3rd Video I.F.	
	Primary	*
	Secondary	*

	WINDING	D.C. RESISTANCE IN OHMS
TR301	Vertical Oscillator Transformer	
	Primary Bu-Gn	525
	Secondary Ye-Bk	140
TR302	Vertical Output Transformer	
	Primary Bu-Rd	350
	Secondary Rd-Ye	1
TR401	Horizontal Hold	
	Primary Rd-Anode	24
	Secondary Rd-C407	88
TR402	Horizontal Output Transformer	
	Primary 3-5	23
	Secondary 4-7	7
	Tertiary 5-Top Cap	415
	Tertiary 1-2	1.5
TR403	Horizontal Feedback Transformer	
	Primary Ye-Rd	1.8
	Secondary Wh-Bk	450
TR404	Power Transformer	
	Primary Gn-Wh	10
	Secondary Rd-Rd	4
	Motor Winding	2

* Less than 1 ohm.

The above readings were taken on a standard chassis, but substitution of materials during manufacture may cause variations, and it should not be assumed that a component is faulty if a slightly different reading is obtained.