

PHOTOFACT® Folder



MODEL Y4523H

ZENITH CHASSIS
20Y1C38

COLOR TV

IMPORTANT FILING NOTICE

Some models covered by this PHOTOFACT Folder employ chassis in addition to the TV chassis. PHOTOFACT Folders covering these additional chassis are packaged immediately behind this Folder and should be filed with this Folder in the yellow filing jacket provided. For specific coverage see index below.

INDEX

Remote Control Chassis S-74626,
S-74636, S-75276 SET 927, FOLDER 2-A

TRADE NAME	Zenith	Models	Chassis	Remote Control
		S2958W, T2940L1, T2953R/W, T2955W4, T2957W	20Y1C38	
		T2969W, T2971M, T2972H, T2973W, T2979W	20Y1C38	
		Y4202Y, Y4204L1/W, Y4206W, Y4216W	20Y1C38	
		Y4502W/W1, Y4507W, Y4515R/R1/W/W1, Y4516R/W/W1..	20Y1C38	
		Y4517M1, Y4518R/W, Y4519W4	20Y1C38	
		Y4520M4, Y4522W, Y4523H/R, Y4525M, Y4528H	20Y1C38	
		Y4531DE, Y4533W, Y4534W, Y4537M, Y4539H/R	20Y1C38	
		Y6206W	20Y1C38 ...	S-75276
		Y6507W	20Y1C38 ...	S-74636
		Y6522W	20Y1C38 ...	S-74626 or S-75276
SUPPLIER	For current address, see Annual Index.			
TYPE SET	Color Television Receiver			
TUBES	Twenty-Three			
POWER SUPPLY	110-120 Volts AC, 60 Cycles			
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)			
		TRANSISTORS	Three	
		RATING	330 Watts, 3.25 Amps. @ 117 Volts AC	

SERVICING IN THE FIELD

SAFETY GLASS

- The safety glass is an integral part of the picture tube.

FUSE OR FUSE DEVICE

A 1-amp. fuse is used for low voltage power supply protection. (See photo "Cabinet - Rear View" for location.)

Three 2½" lengths of #24 fuse wire are used for filament protection. (For location, see F2, F3 and F4 in photo "Chassis - Bottom View".)

VHF OSCILLATOR ADJUSTMENT

The Fine Tuning mechanically engages oscillator slug for adjustment (one slug for each channel). It may be necessary to adjust overall oscillator trimmer for best results.

AGC

The AGC may be varied by means of an AGC control. (See "Tube Placement Chart" for location.)

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Coarse adjustment of the horizontal hold is accomplished by the proper setting of the Horizontal Oscillator coil. (See "Tube Placement Chart" for location.)

WIDTH

A jumper from Horizontal Centering control to C92 increases width — removing jumper decreases width. (See photo "Cabinet - Rear View" for location.)

FOCUS

The focus may be varied by means of a Focus control. (See photo "Cabinet - Rear View" for location.)

BUZZ ADJUSTMENT

To eliminate intercarrier buzz, adjust the Buzz control for MINIMUM buzz and maximum sound. (See photo "Cabinet - Rear View" for location.)

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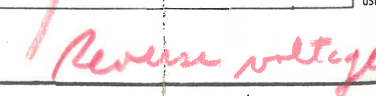
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. SB530

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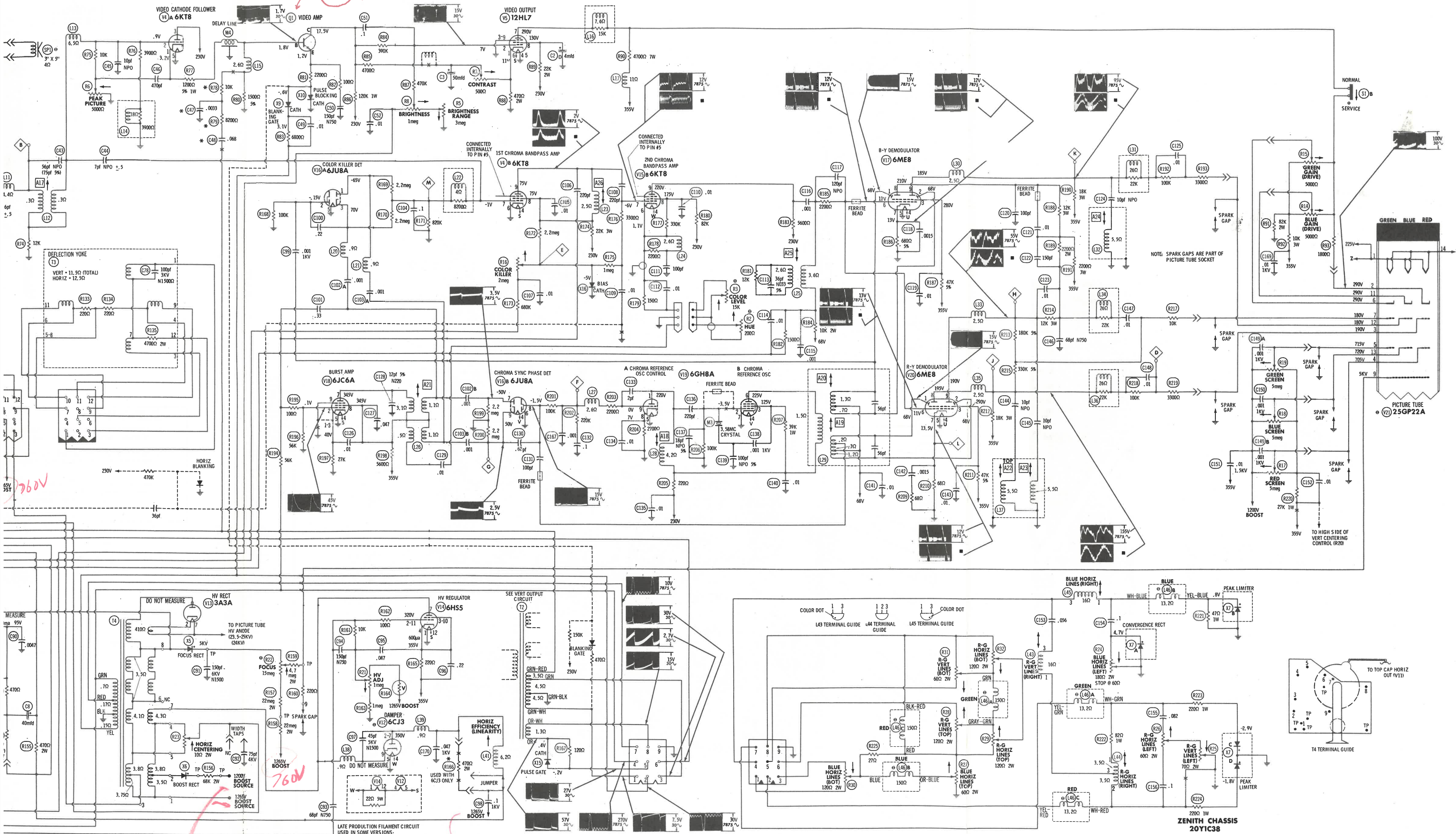
SET 927 FOLDER 2





STD TO-92 CASE

6BC TEAM VIEW



Reverse voltage

760V

ZENITH CHASSIS 20YIC38

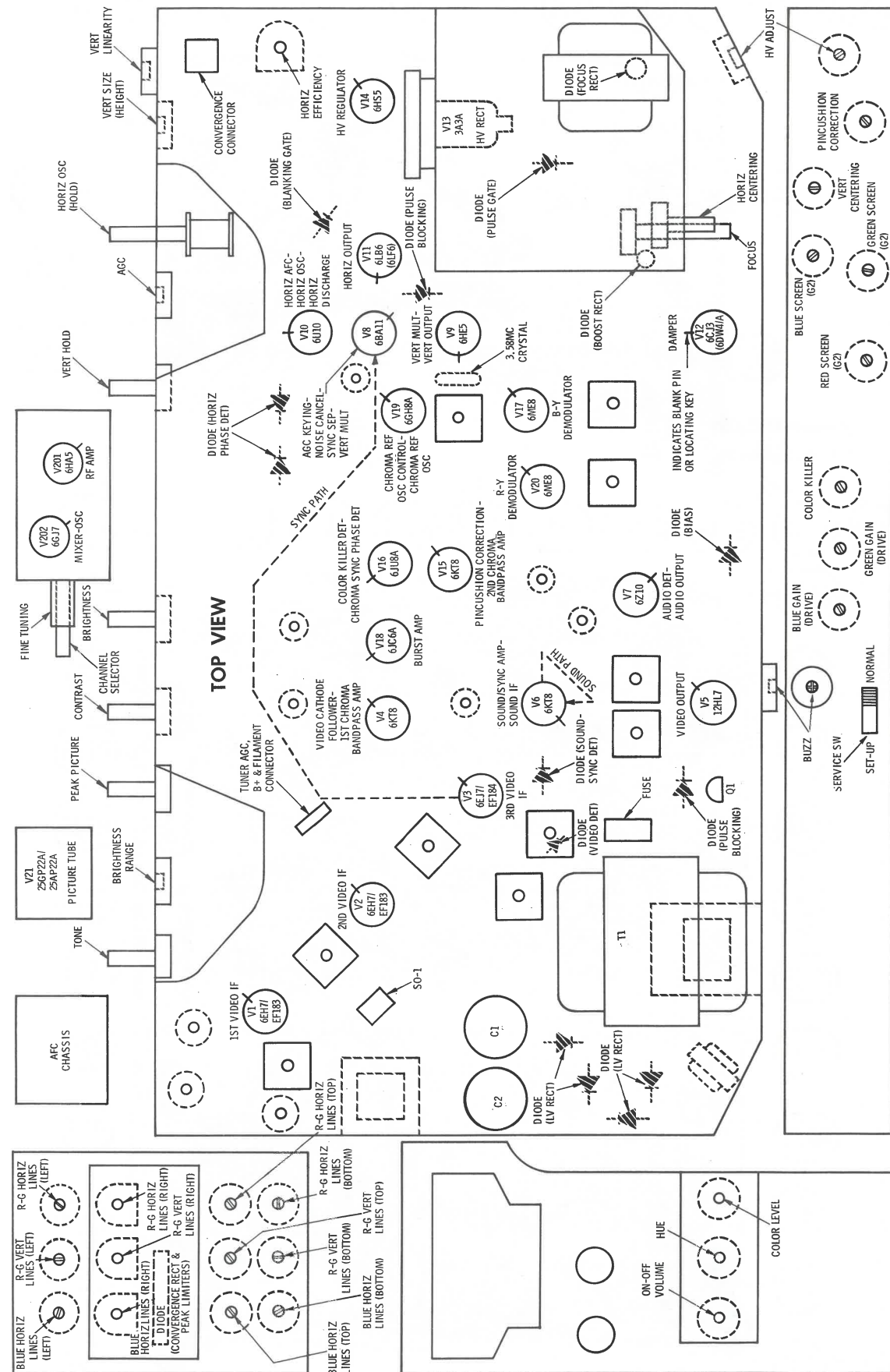
RESISTANCE MEASUREMENTS

ITEM	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	TOP CAP
V1	6EH7/EF183	1220Ω	870K	NC	FIL	FIL	0Ω	500Ω ■	500Ω ■	1200Ω ■				
V2	6EH7/EF183	65K	6800Ω ■	NC	FIL	FIL	0Ω	1500Ω †	1500Ω †	22Ω ■				
V3	6EJ7/EF184	1000Ω	12K	NC	FIL	FIL	0Ω	4350Ω †	4350Ω †	0Ω				
V4	6KT8	2780Ω	2400Ω	1050Ω †	FIL	FIL	0Ω	820K	23K †	23K †				
V5	12HL7	470Ω	230K	0Ω	FIL	FIL	FIL	3350Ω †	23K †	0Ω				
V6	6KT8	0Ω	100K	38K †	FIL	FIL	22Ω	1700Ω ●	32K †	12K †				
V7	6Z10	FIL	3500Ω †	220Ω	700K †	3.8Ω	23K †	.5Ω	650Ω	4050Ω †	TP	140K	FIL	
V8	6BA11	FIL	1.3meg	16K †	21meg †	38K	80K	10meg †	4500Ω	830K	35K ●	9.5meg †	FIL	
V9	6HE5	FIL	2.5meg	NC	720Ω	TP	1000Ω †	NC	TP	NC	12.5K †	NC	FIL	
V10	6U10	FIL	1050Ω †	6900Ω	330Ω	70K †	0Ω	1.9meg	TP	300K	85K †	35K	FIL	
V11	6LB6	FIL	0Ω	33K †	0Ω	4.7meg	TP	NC	TP	NC	0Ω	33K †	FIL	20Ω †
V12	6CJ3	NC	NC	NC	FIL	FIL	NC	28Ω †	NC	60meg ●				
V13	3A3A		PINS 1 THRU 8 HAVE INFINITE RESISTANCE											450Ω †
V14	6HS5	FIL	1.8meg	240Ω †	240Ω †	NC	NC	1Ω †	NC	NC	NC	NC	FIL	
V15	6KT8	1050Ω	1meg	1200Ω	FIL	FIL	2200Ω	2.3meg ●	70K †	6700Ω †				
V16	6JUBA	3meg	100K	3meg	FIL	FIL	0Ω	2.3meg	105K †	2.3meg				
V17	6ME8	2Ω ▲	1.4Ω ▲	47K †	FIL	FIL	4050Ω	680Ω	15K †	19K †				
V18	6JC6A	27K	30K	27K	FIL	FIL	TP	5700Ω †	5700Ω †	0Ω				
V19	6GH8A	1300Ω †	100K	40K †	FIL	FIL	1300Ω †	0Ω	2.7K	INFINITE				
V20	6ME8	1.6Ω ▲	10.2K †	47K †	FIL	FIL	4050Ω	680Ω	18K †	17.5K †				
V21	25GP22A/25AP22A	FIL	5500Ω †	130K †	1.6meg †	1.4meg †	4000Ω †	150K †	NC	140meg	NC	4100Ω †	125K †	
V201	6HA5	4meg	0Ω	FIL	FIL	13K †	0Ω	0Ω						
V202	6GJ7	0Ω	680K	0Ω	FIL	FIL	28K †	28K †	23K †	10K				

■ MEASURED FROM PIN 1 OF V2.
† MEASURED FROM PIN 9 OF V12.
‡ MEASURED FROM PIN 9 OF V19.
NC NO CONNECTION
THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.

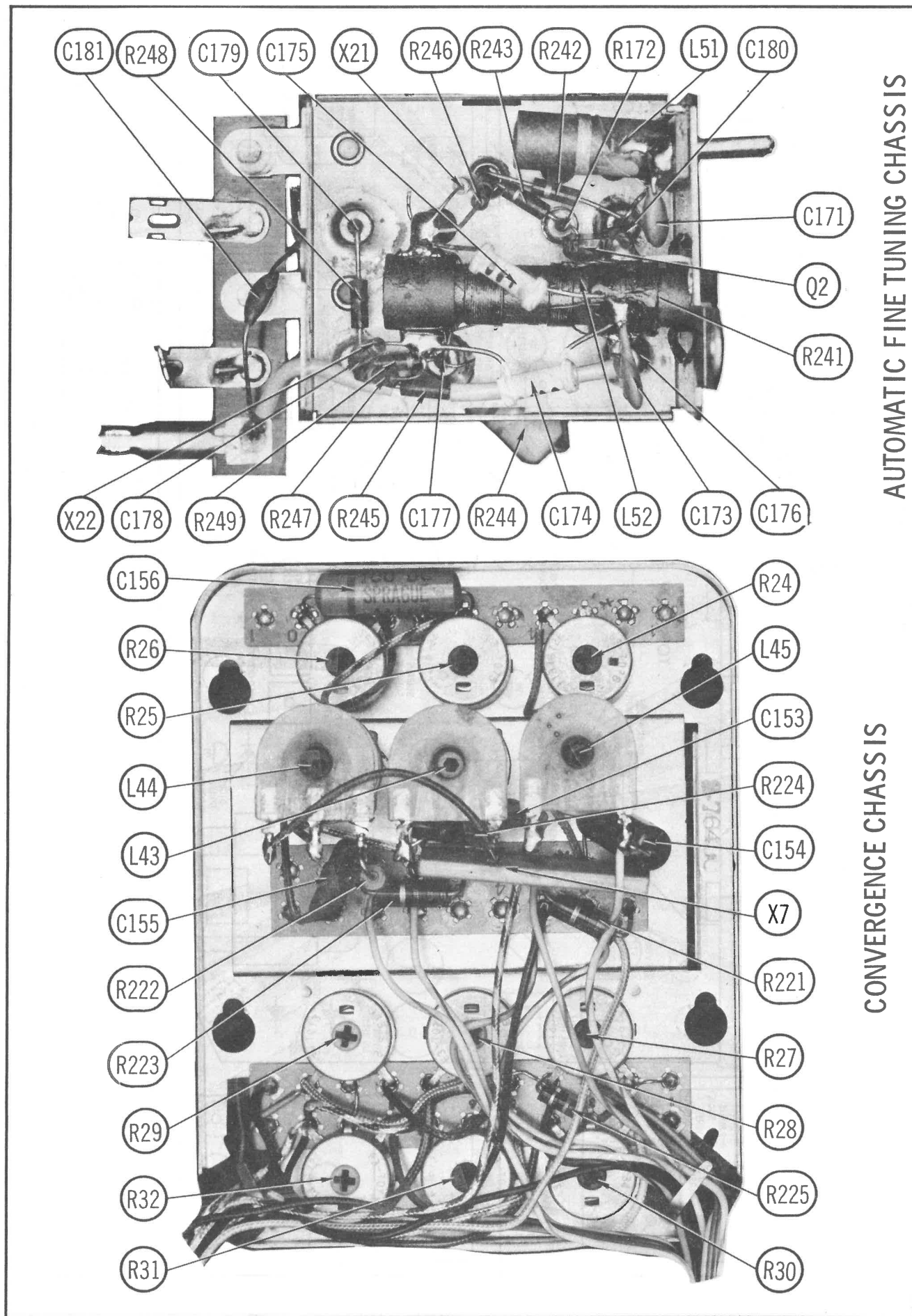
● READING DEPENDS ON POLARITY OF METER CONNECTIONS.
† MEASURED FROM THE CATHODES OF X2 AND X4.
▲ MEASURED FROM PIN 2 OF V20.
TP TIE POINT

TUBE PLACEMENT CHART



ZENITH CHASSIS
20Y1C38

FOLDER 2



MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENT

Remove shorting clip in Horizontal Efficiency Coil Circuit and connect a 0-300ma Meter across the terminals.

Connect a VTVM through a high-voltage probe to the picture-tube anode connector.

Tune in a TV station and set all controls for normal operation. Move the "Set up - Normal" switch in set up position. Adjust the High Voltage control for 24.5KV.

Adjust the Horizontal Efficiency Coil for MINIMUM current on the milliammeter. (Approximately 180-220 ma).

Adjust Focus, Height and Vertical Linearity controls.

AGC ADJUSTMENT

Tune in a strong TV station and advance the AGC control until instability appears in the picture (pulling, jitter, overload, etc.). Reduce the control to the point just below the instability and check all available stations for proper AGC action.

COLOR SYNC AND DEMODULATION ALIGNMENT

Connect Color Bar generator to antenna terminals. Connect Points \diamond and \diamond to ground. Adjust A18 for MINIMUM number of floating bars on the screen. Connect DC probe of VTVM through a 4.7meg resistor to Point \diamond . Low side to ground. Connect a jumper from Point \diamond to ground. Adjust A19 for maximum deflection on VTVM. Adjust A20 for MINIMUM deflection on VTVM. NOTE: If shield over injection transformer has a flat top, A19 is top core. If shield has dome-shaped top, A20 is the top core.

Remove jumpers from Points \diamond , \diamond , and \diamond . Set the Color and Tint controls to the center of their rotation. Connect Vertical Amp. of Scope to Point \diamond , low side to ground. Adjust A22 for MINIMUM 3.58MC response. Connect Vertical Amp. of Scope to Point \diamond , low side to ground. Adjust A23 for MINIMUM 3.58MC response. Connect Vertical Amp. of Scope to Point \diamond . Low side to ground. Adjust A24 for MINIMUM 3.58MC response. NOTE: Connect Scope to Point \diamond , check for proper waveform with Color Bar generator being used. See waveform on schematic obtained from a standard NTSC signal. Check the range of the Hue control. The bars should move 30° either side of proper signal. If necessary, retouch A21 for proper range of control.

PURITY ADJUSTMENTS

Perform Step 1 of Convergence Adjustments. If the picture tube appears to be magnetized, use a degaussing coil to demagnetize tube and mounting brackets.

Connect the blue and green grids of the picture tube through individual 100K resistors to ground. Loosen the deflection yoke and move it rearward until it is against the convergence yoke assembly.

Adjust the tabs on the purity magnet, and rotate the assembly until a red spot appears at the center of the picture tube. Slide the deflection yoke forward to obtain a uniform red over entire picture-tube face. A low-power microscope is useful to observe the beam landings.

GRAY SCALE ADJUSTMENTS

Tune in a black-and-white picture or color picture with the Color control set to MINIMUM. Turn the Red, Blue and Green screen (G2) controls fully counter-clockwise. Move the "Set up - Normal" switch to the set up position. Advance the screen (G2) controls, one at a time, until each produces a barely visible line on the screen. Return the "Set up - Normal" switch to normal position. Adjust the Blue and Green Gain controls to eliminate coloring in the dark and bright areas of the picture.

NOTE: Slip-on connectors are provided so the least efficient gun may be connected direct, and the other two connected to the Gain (Drive) controls.

Turn Brightness control to maximum and the Contrast control to the center of its range. Adjust the Brightness Range control until the picture starts to bloom, then reduce the control to the point just below where the picture returns to normal.

DYNAMIC PINCUSHION ADJUSTMENTS

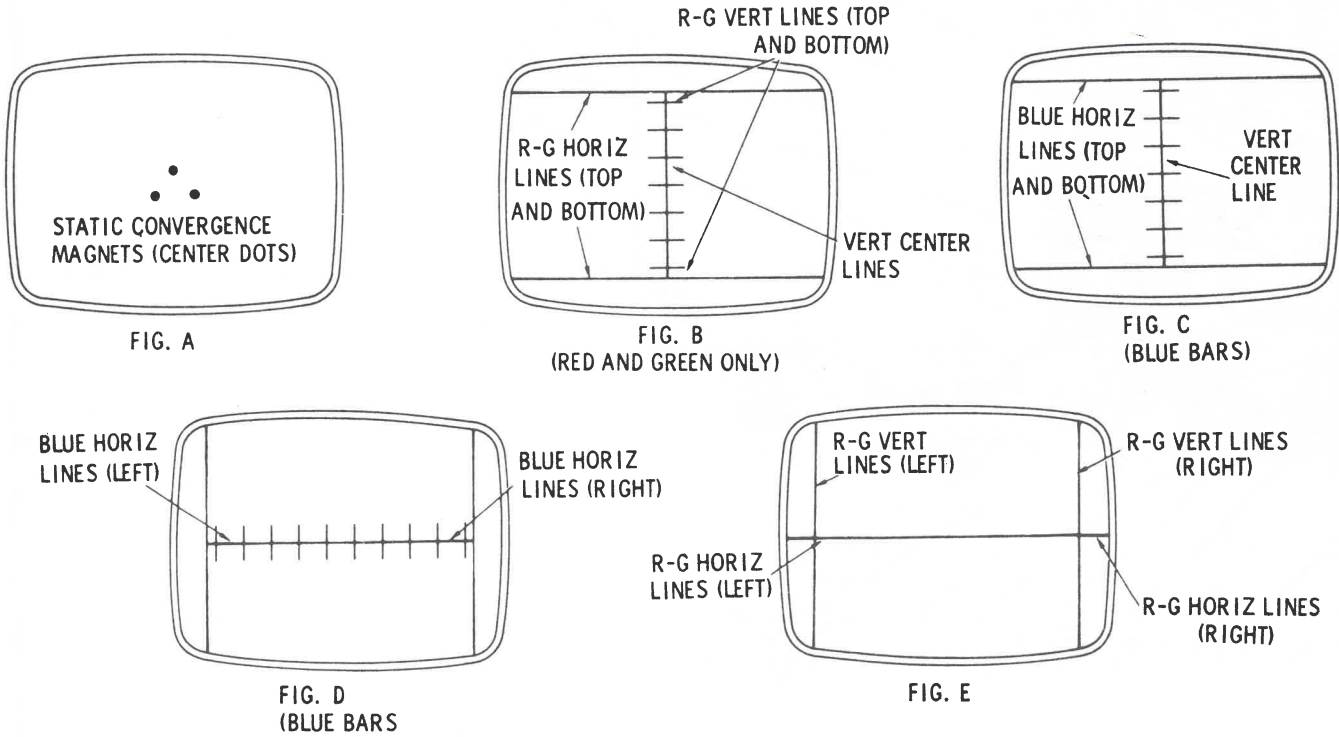
The side pincushion is a fixed correction and no adjustments are provided on this chassis. Top and bottom pincushion is factory adjusted and readjustment is seldom needed. If necessary, top and bottom pincushion may be corrected by adjusting for straight horizontal lines at the top and bottom of the screen.

Connect a crosshatch generator to the antenna terminals and adjust the set for a normal crosshatch pattern.

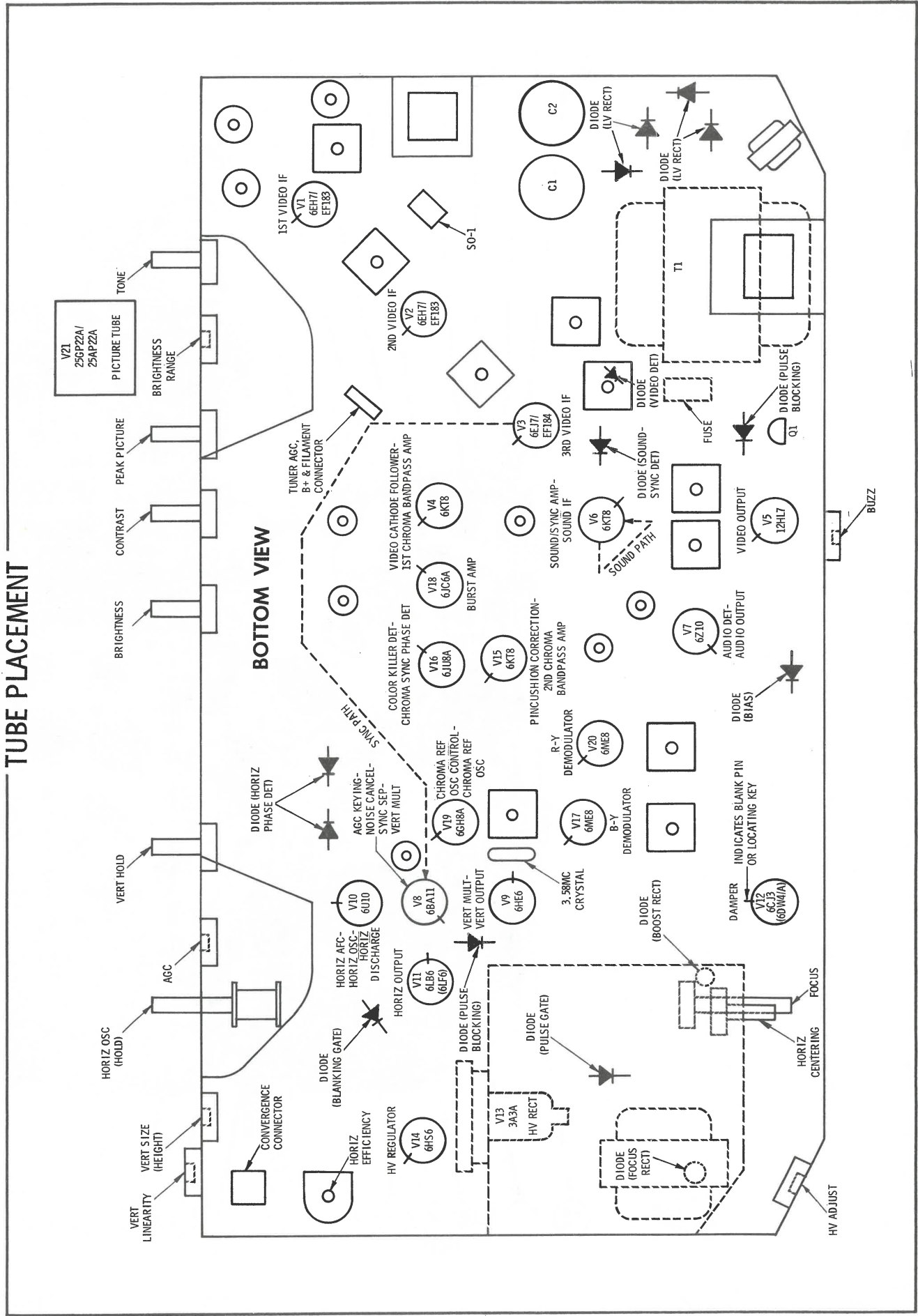
Adjust Pincushion Coil, L42, for straight horizontal lines at top and bottom of the screen. Repeat above steps if necessary.

CONVERGENCE ADJUSTMENTS

Step	Control	Use to Converge (or Straighten)	Remarks
1.			Perform Center Dot Convergence using convergence magnets. See Fig. A.
2.	R-G Vertical Lines, Top	Red and Green Vertical bars at top of screen.	Touch up both controls for best convergence from top to bottom along vertical center line (Fig. B).
3.	R-G Vertical Lines, Bottom	Red and Green Vertical bars at bottom of screen.	
4.	R-G Horizontal Lines, Top	Red and Green Horizontal bars at top of screen.	Touch up both controls for best convergence of horizontal bars along vertical center line (Fig. B).
5.	R-G Horizontal Lines, Bottom	Red and Green Horizontal bars at bottom of screen.	
6.	Blue Horizontal Lines, Top	Blue Horizontal bars at top of screen.	Touch up both controls for best convergence of horizontal bars along vertical center line (Fig. C).
7.	Blue Horizontal Lines, Bottom	Blue Horizontal bars at bottom of screen.	
8.			Perform Center Dot Static Convergence (Fig. A).
9.	Blue Horizontal Lines, Right	Blue Horizontal bars at right side of screen.	Touch up both controls for best convergence along horizontal center line (Fig. D).
10.	Blue Horizontal Lines, Left	Blue Horizontal bars at left side of screen.	
11.	R-G Vertical Lines, Right	Red and Green Vertical bars at right side of screen.	(Fig. E)
12.	R-G Horizontal Lines, Right	Red and Green Horizontal bars at right side of screen.	Use control to converge blue bar with red and green bars on right side of screen (Fig. E).
13.	R-G Vertical Lines, Left	Red and Green Vertical bars at left side of screen.	(Fig. E)
14.	R-G Horizontal Lines, Left	Red and Green Horizontal bars at left side of screen.	Use control to converge blue bar with red and green bars at left side of screen (Fig. E).

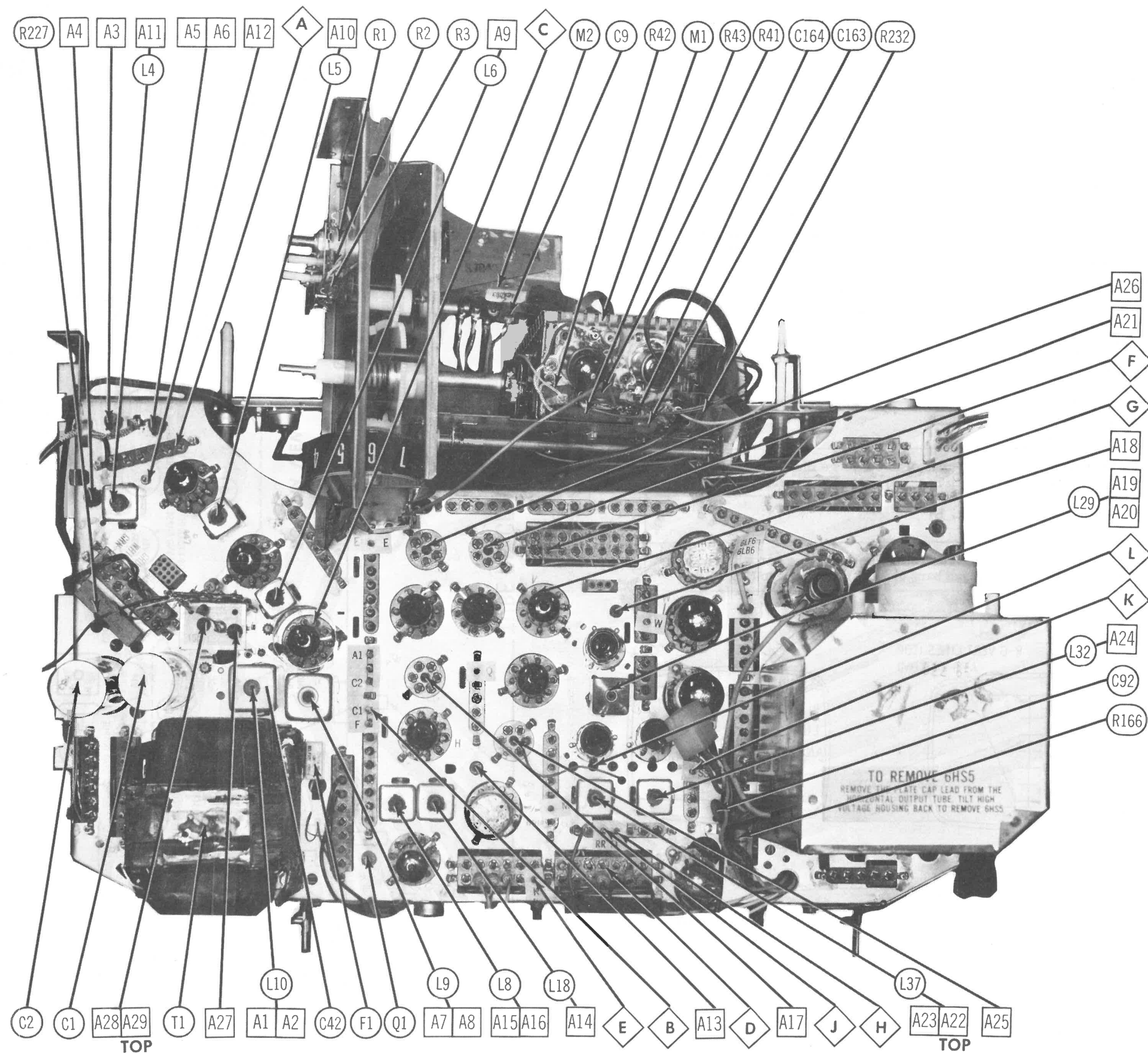


TUBE PLACEMENT

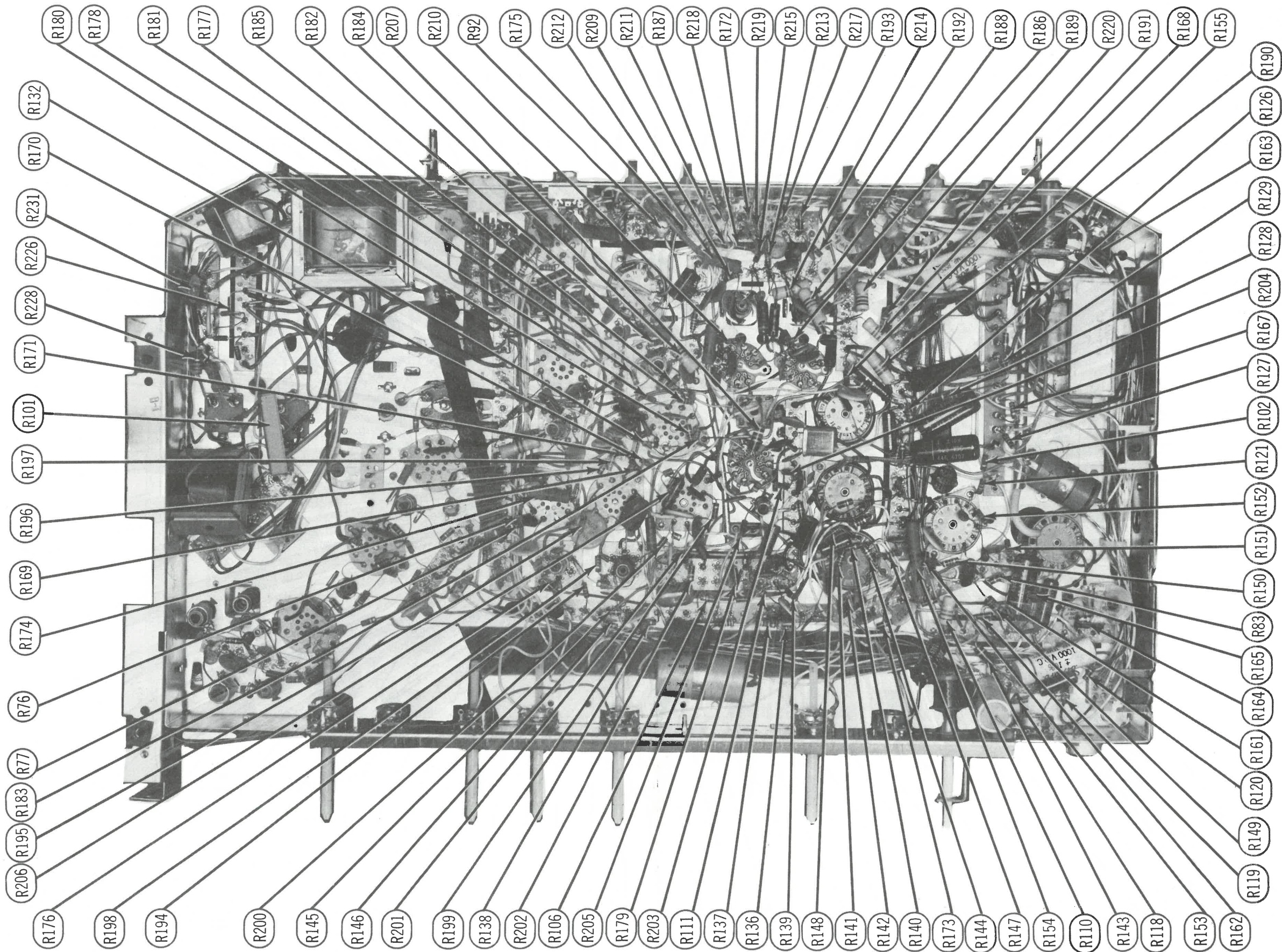


ZENITH CHASSIS
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FOLDER 2

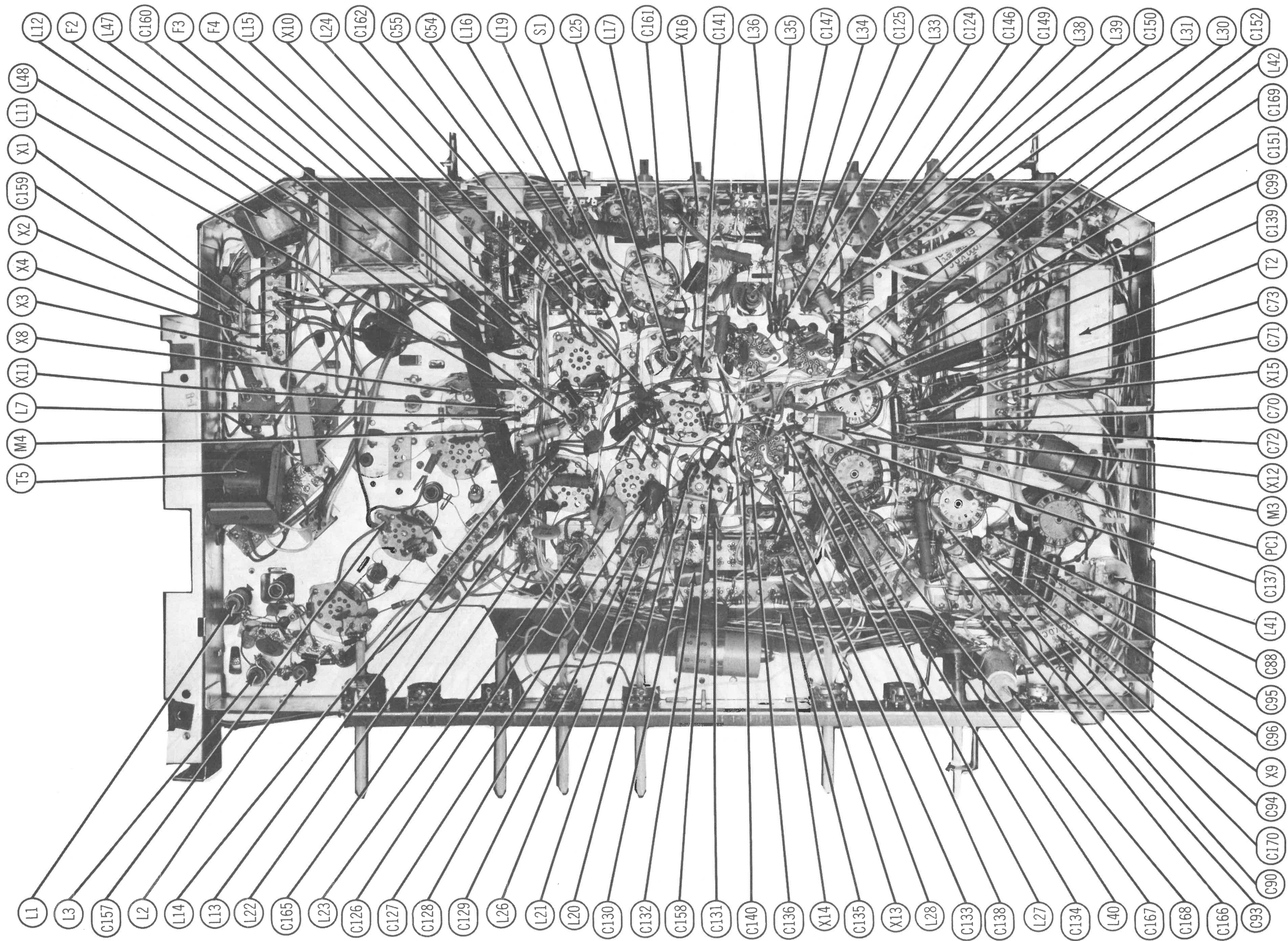


CHASSIS - TOP VIEW



CHASSIS - BOTTOM VIEW

ZENITH CHASSIS
20Y1C38



CHASSIS - BOTTOM VIEW


ZENITH CHASSIS
20Y1C38

ALIGNMENT INSTRUCTIONS





Use an isolation transformer and maintain voltage at 117 volts. Allow a 20-minute warm-up period for the receiver and test equipment.							
Suggested Alignment Tools:	<table border="0"> <tr> <td>A1 thru A11, A13 thru A16</td> <td>GENERAL CEMENT #8606, 8606L, 8869 ...WALSCO #2543, 2544, 2588</td> </tr> <tr> <td>A12</td> <td>GENERAL CEMENT #8868, 8987, 9089 ...WALSCO #2531-X, 2541, 2587</td> </tr> <tr> <td>Mixer Plate Coll</td> <td>GENERAL CEMENT #9296, 9300, 9302 ...WALSCO #2510, 2511, 2547</td> </tr> </table>	A1 thru A11, A13 thru A16	GENERAL CEMENT #8606, 8606L, 8869 ...WALSCO #2543, 2544, 2588	A12	GENERAL CEMENT #8868, 8987, 9089 ...WALSCO #2531-X, 2541, 2587	Mixer Plate Coll	GENERAL CEMENT #9296, 9300, 9302 ...WALSCO #2510, 2511, 2547
A1 thru A11, A13 thru A16	GENERAL CEMENT #8606, 8606L, 8869 ...WALSCO #2543, 2544, 2588						
A12	GENERAL CEMENT #8868, 8987, 9089 ...WALSCO #2531-X, 2541, 2587						
Mixer Plate Coll	GENERAL CEMENT #9296, 9300, 9302 ...WALSCO #2510, 2511, 2547						

VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from those shown.

Connect a variable bias supply to the IF AGC line (point ) and adjust to obtain a response curve which shows no indication of overload.

Disable Oscillator section of Mixer-Osc. Set the Channel Selector to any non-interfering channel.

	INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS	41.75
1.	Connect DC probe of a VTVM thru a 47K resistor to point  . Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		41.25MC 39.75MC 41.25MC 47.25MC	A1, A2 A3 A4 A5, A6	Adjust for MINIMUM. " " " " " " Adjust A5 for MINIMUM and A6 for maximum.	41.
2.	Connect vertical input of a scope to point  . Low side to ground.	Connect high side thru .002 mfd capacitor to Point  . Low side to ground.	44MC (10MC Sweep)	41.75MC 42.75MC 45.00MC 45.75MC	A7, A8	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.	
3.	Connect vertical input of a scope to point  . Low side to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.	44MC (10MC Sweep)	39.75MC 41.25MC 41.75MC 42.75MC 45.00MC 45.75MC 47.25MC	A9, A10, A11, A12, Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 2. In order to obtain a proper response, it may be necessary to slightly retouch A 7 and A 8.	

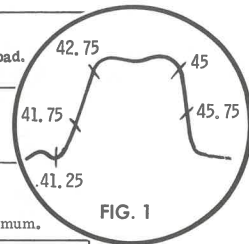


FIG. 1

SOUND IF ALIGNMENT

Tune in a station and reduce the signal strength at the antenna terminals until a hiss is heard in the sound. Align for maximum undistorted sound with MINIMUM buzz by adjusting A13, A14, A15, A16 and Buzz Control. If the hiss disappears during alignment, further reduce the signal strength.

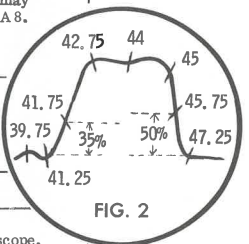


FIG. 2


4.5 MC TRAP ALIGNMENT

Tune in a TV station. Connect high side of vertical input of scope thru a 10K Resistor to Point ⑤, low side to ground. Connect Point ⑥ to ground with a jumper. Detune set to increase sound bars in the picture. Adjust A17 for MINIMUM 920KC beat on scope.


CHROMA BANDPASS ALIGNMENT

Set tuner between channels. Set Color control to the center of its range. Connect a jumper from Point $\diamond E$ to ground.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4.	Connect high side thru .1mfd to grid of pin 7 of Color Amp., V15. Low side to ground.	3.58MC (3-5 MC Sweep)			Vert. Amp. thru Detector Probe to pin 7 of demodulators Point \diamond . Low side to ground.	A25	Adjust for response curve similar to Fig. 3.

Remove generator and scope. Connect Color Bar generator to antenna terminals. Connect DC Probe of VTVM to Point , low side to ground. Adjust A26 for maximum deflection.

AUTOMATIC FINE TUNING ALIGNMENT

Tune in a color TV program with AFC off. Adjust all controls for normal operation. Remove white lead from the AFC output terminal. Connect DC Probe of VTVM to this terminal, Point , low side to ground. Turn AFC on and fine tune into sound beat for maximum negative DC voltage. Adjust A27 for maximum deflection on meter. Change meter to positive polarity and adjust fine tuning in the opposite direction for maximum deflection. Adjust A28 for maximum deflection. Connect the white lead to the AFC output terminal. Turn AFC off and adjust fine tuning for normal picture. Turn AFC on and adjust A29 for MINIMUM deflection. Remove VTVM.

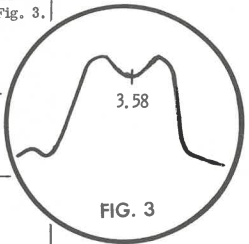


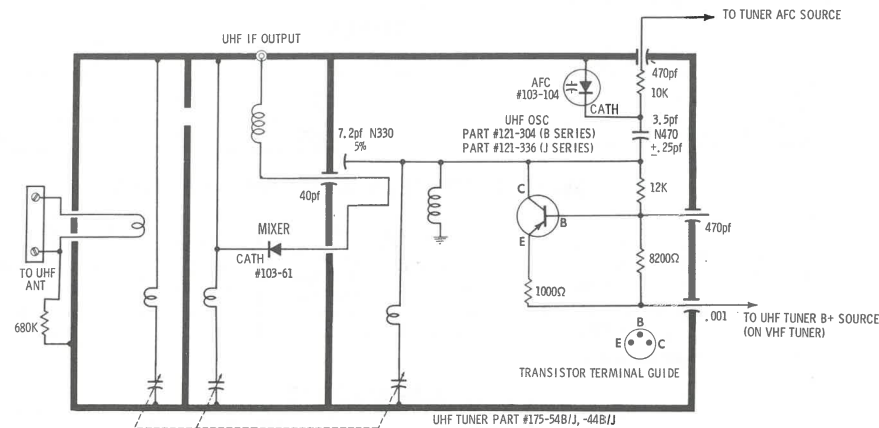
FIG. 3

CABINETS & CABINET PARTS

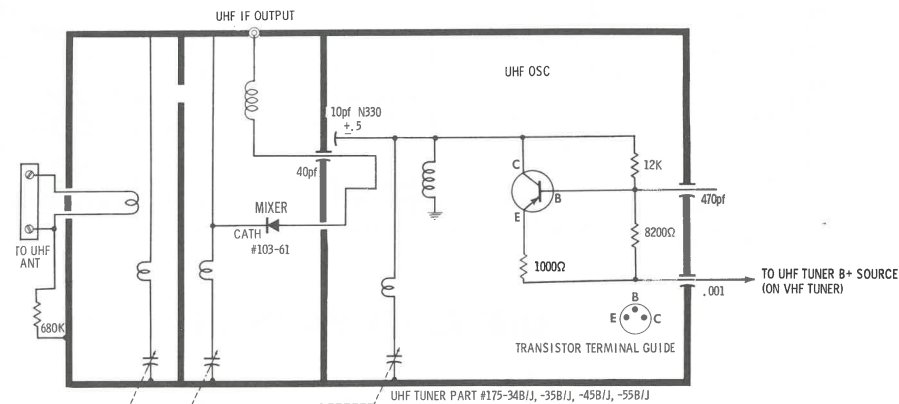
(When Ordering Specify Model, Chassis & Color)

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UHF TUNER 175-54,44B/J

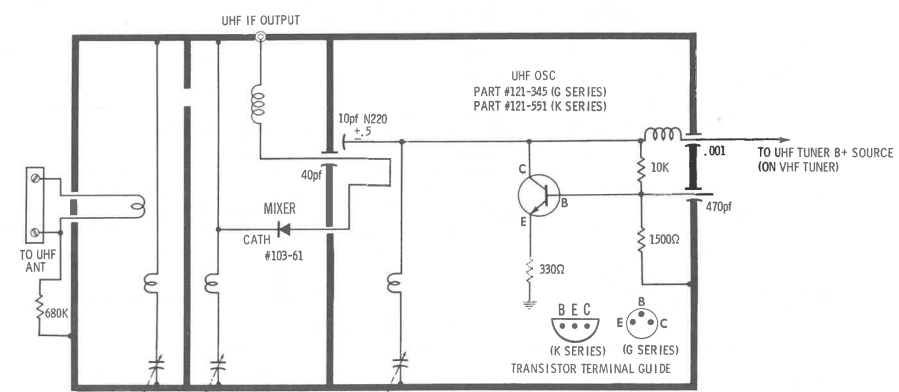


A PHOTOFACT STANDARD NOTATION SCHEMATIC
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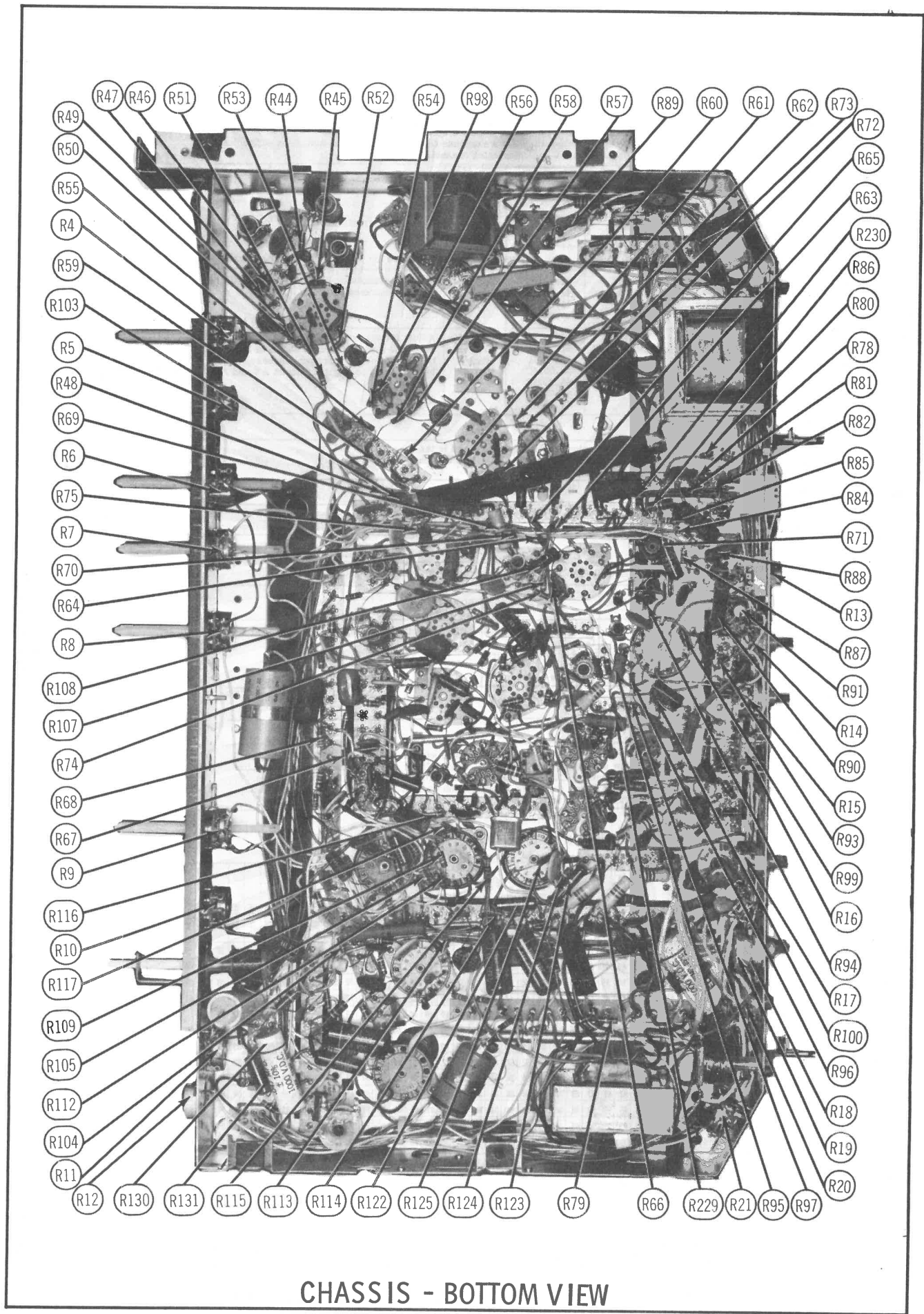
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UHF TUNER 175-34, 44, 35, 55, B/J



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UHF TUNER 175-34, 35, 45, 55G/K



CHASSIS - BOTTOM VIEW

VHF TUNER PARTS LIST

VHF TUNER #175-559 THRU #175-566

TUBES

* AMPEREX *		* GENERAL ELECTRIC *		* RCA *		* SYLVANIA *	
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE	
V201	RF Amp.	6HA5		V202	Mixer - Osc.	6GJ7	

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X201		103-104 †					

† Voltage Variable Capacitor

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201A	27		DI-27	DD-270		CCD-270	GP427	10TS-Q27
C201B	27		DI-27	DD-270		CCD-270	GP427	10TS-Q27
C202A	27		DI-27	DD-270		CCD-270	GP427	10TS-Q27
C202B	27		DI-27	DD-270		CCD-270	GP427	10TS-Q27
C203	8			DD-080		GP580	GP580	10TS-V80
C204	10			DD-100		CCD-100	GP410	10TS-Q10
C205	18 N220 5%	#22-3820				*	*	10TCR-Q18
C206	.5-3.2	#22-4510						
C207	1.25-4.25	#22-5348						
C208	.001		EF-001	MFT-1000		CCF-102	CT280A	
C209	47 N470	#22-3822				*	*	10TCT-Q47
C210	.5-3.2	#22-4510						
C211	4	#22-4702						
C212	.001		EF-001	MFT-1000		CCF-102	CT280A	10TCC-V39
C213	.001		EF-001	MFT-1000		CCF-102	CT280A	
C214	.001		EF-001	MFT-100		CCF-102	CT280A	
C215	56	#22-3488						
C216	1.5			DTZ-1R5		CCD-100	CNO615	10TCC-V15
C217	10			DD-100		CCF-102	GP410	10TS-Q10
C218	.001		EF-001	MFT-1000			CT280A	

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
Zenith Part Number

UHF TUNER PARTS LIST

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA				ZENITH PART No.	NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.		
Q301		UHF Oscillator		GE-11	TR-24	SK-3019	121-551	NPN

TUBES

* AMPEREX *		* GENERAL ELECTRIC *		* RCA *		* SYLVANIA *	
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE	
V201	RF Amp.	6HA5		V202	Mixer - Osc.	6GJ7	

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X301		103-61	1N82A	1N82AG			
X302		103-104 ①					

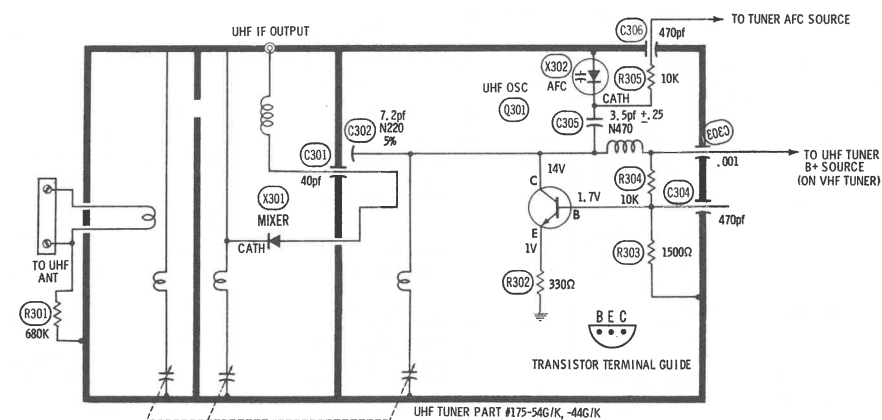
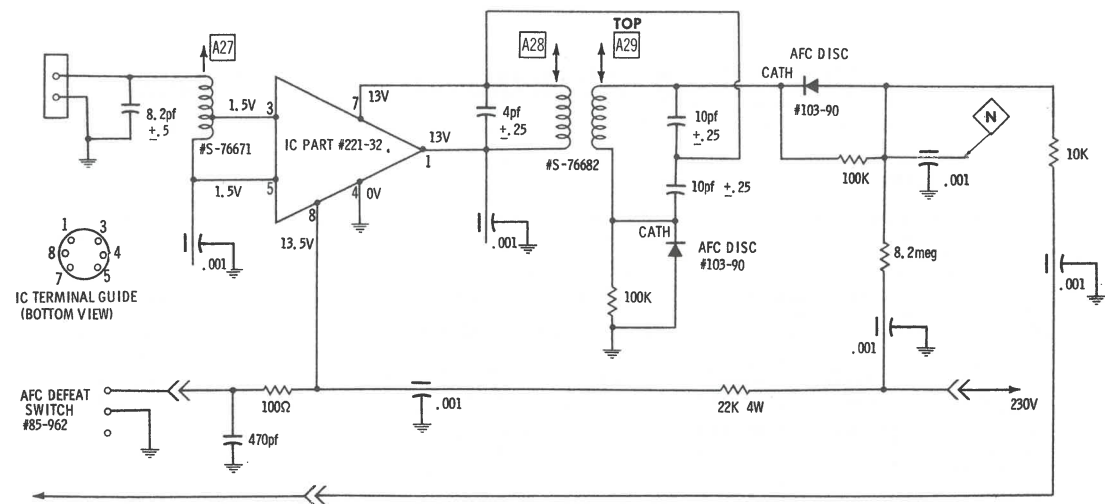
① Variable Capacitor Diode

CAPACITORS

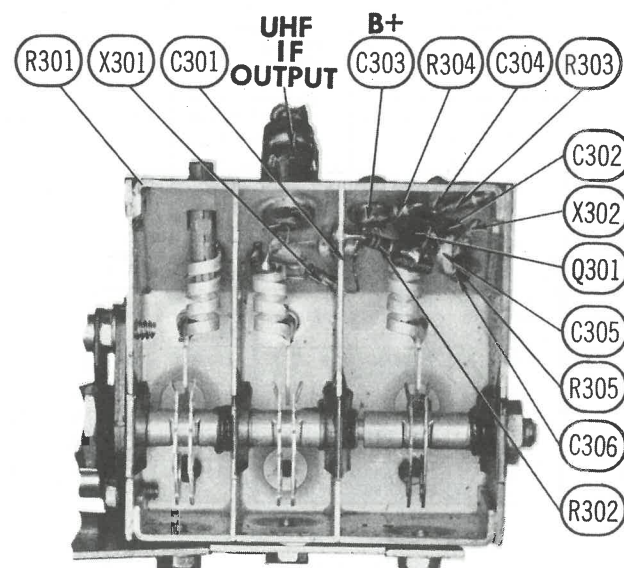
ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C301	40							
C302	7.2 N220 5%	#22-5060						
C303	.001	#22-5366	EF-001	MFT-1000		CCF-102	CT280A	
C304	470	#22-5062				*	*	
C305	3.5 N470 ±.25	#22-5062				*	*	10TCT-V33
C306	470	#22-5367						
		#22-5062						

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
Zenith Part Number.

AFC CIRCUIT

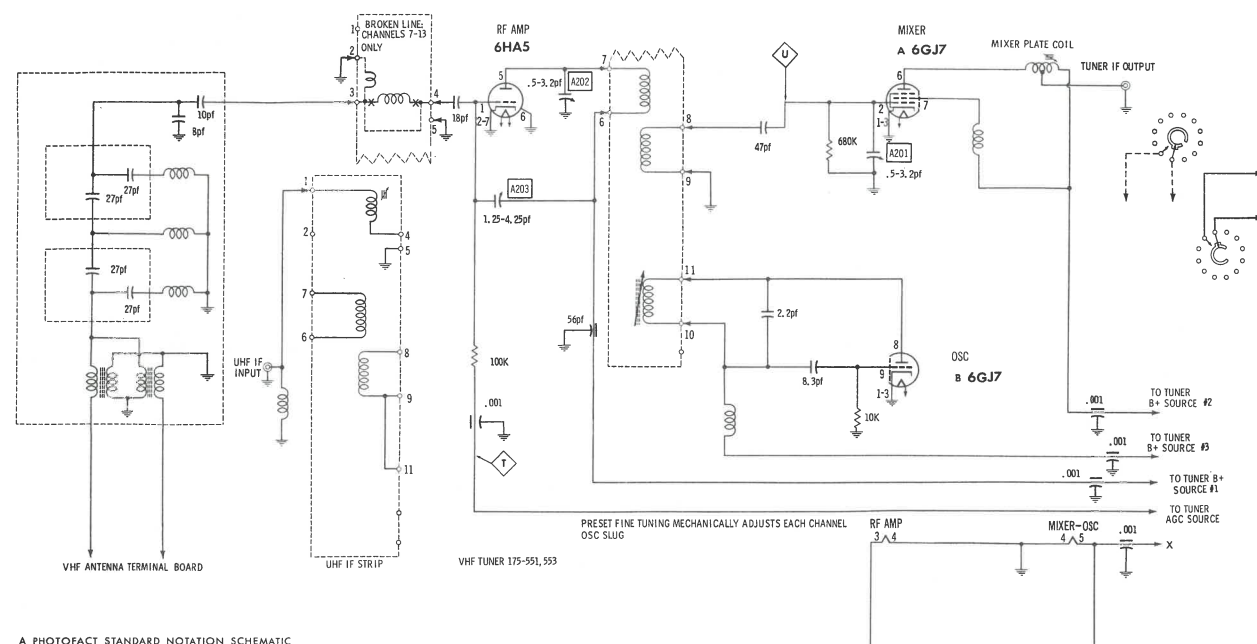


A PHOTOFACT STANDARD NOTATION SCHEMATIC
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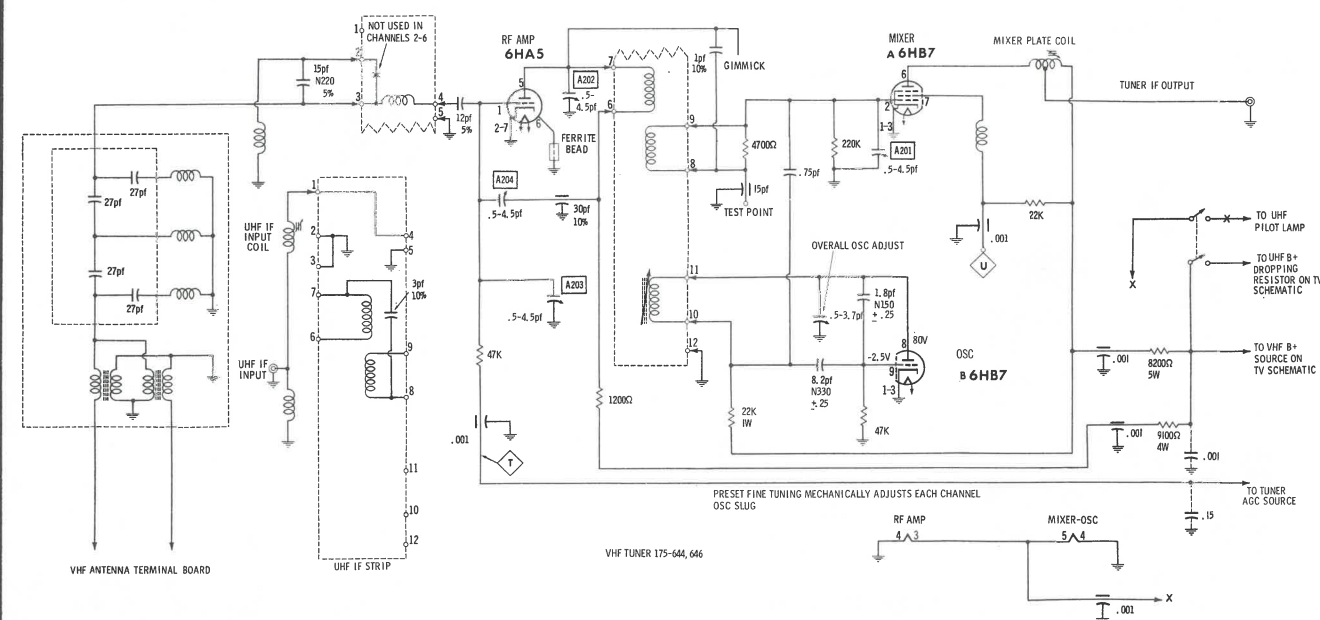


UHF TUNER 175-54, 44G/K

VHF TUNER 175-551, 553



A PHOTOFACT STANDARD NOTATION SCHEMATIC
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VHF TUNER 175-644, 646

ZENITH CHASSIS
20Y1C38



FOLDER 2





Suggested Alignment Tools: A201, A202, A203....GENERAL CEMENT #8868, 8987, 9089...WALSCO #2531-X, 2541, 2587

The oscillator for each channel is preset by means of the fine tuning control. Adjust fine tuning for best picture and sound on each channel.



Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use 10MC sweep unless otherwise noted.
Connect a variable bias to the RF AGC line at point \textcircled{T} . Adjust bias to obtain response curve which shows no indication of overloading.


	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS VHF TUNER 500 SERIES
1.	Across antenna terminals with 120Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. Input to Point  , low side to ground	A201, A202	Adjust for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2.	"	195MC	193.25MC 197.75MC	10	Across Video Det. load resistor.	A203	Increase bias to -20 volts and adjust for MINIMUM amplitude of response.
3.	"	See Chart	See Chart	12 thru 2	Vert. Input to Point  , low side to ground.		Decrease bias. Check response on all channels and make compromise adjustments of A201 and A202 if necessary.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS VHF TUNER 700 SERIES
1.	Across antenna terminals with 120Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. Input to Point  , low side to ground		Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2.	"	195MC	193.25MC 197.75MC	10	Across Video Det. load resistor.	A201	Increase bias to -20 volts and adjust for MINIMUM amplitude of response.
3.	"	See Chart	See Chart	12 thru 2	Vert. Input to Point  , low side to ground.		Decrease bias. Check all channels and make compromise adjustments by expanding or compressing appropriate coils.

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use 10MC sweep unless otherwise noted.

Connect a variable bias to the RF AGC line at point \textcircled{T} . Adjust bias to obtain response curve which shows no indication of overloading.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	Across antenna terminals with 120Ω in each lead.	213MC	211. 25MC 215. 75MC	13	Vert. Input to Point  , low side to ground	A201 A202 A203	Adjust for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2.	"	195MC	193. 25MC 197. 75MC	10	Across Video Det. load resistor.	A204	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3.	"	See Chart	See Chart	12 thru 2	Vert. Input to Point  , low side to ground.		Decrease bias. Check response on all channels. Make compromise adjustment of A201, A202, A203 if necessary.

SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	
57MC	55. 25MC 59. 75MC	2	85MC	83. 25MC 87. 75MC	6	195MC	193. 25MC 197. 75MC	10	
63MC	61. 25MC 65. 75MC	3	177MC	175. 25MC 179. 75MC	7	201MC	199. 25MC 203. 75MC	11	
69MC	67. 25MC 71. 75MC	4	183MC	181. 25MC 185. 75MC	8	207MC	205. 25MC 209. 75MC	12	
79MC	77. 25MC 81. 75MC	5	189MC	187. 25MC 191. 75MC	9	213MC	211. 25MC 215. 75MC	13	

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS' for the most up-to-date replacement.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					
		ZENITH PART No.	MEISSNER Part No.	MERIT PART No.	MILLER PART No.	WORKMAN PART No.	
L1	41.25MC Trap	S-71330	20-1044 ▲		6226	T219	
L2	47.25MC Trap	S-58047					
L3	39.25MC Trap	S-66316			6225 ■	TM244 ■	
L4	1st Video IF	S-77775					
L5	2nd Video IF	S-69572	17-4524 †	TV-130 †	6219 †	T217 †	
L6	3rd Video IF	S-61623	17-4522 †	TV-130 †	6219 †	T217 †	
L7	RF Choke (27uh)	20-2007	19-6033		72F275AP	T316	
L8	Sound Takeoff/4.5MC Trap	S-69566			7115-Z ▲ †	TF247 ▲ †	
L9	4th Video IF	95-2372					
L10	41.25MC Trap	S-66302					
L11	RF Choke (27uh)	20-2007	19-6033		72F275AP	T316	
L12	4.5MC Trap	S-77689					
L13	Peaking (170uh)	20-2014	19-3180	TV-184	72F184AP	T368	
L14	Peaking (696uh)	20-2526 ①	19-3660 †	TV-206 †	6148 †	T327 †	
L15	Peaking (42uh)	20-2008	19-7047	TV-180	72F395AP	TA323	
L16	Peaking (323uh)	20-2511 ②	19-3330 ††	TV-200 ††	6132 ††	T319 ††	
L17	Peaking (402uh)	20-2001	19-4400	TV-202	72F394AP	T322	
L18	2nd Sound IF	S-77338					
L19	Quadrature	S-77358					
L20	RF Choke (10uh)	20-2005	19-1005	BC-566	72F105AP	T860	
L21	RF Choke (10uh)	20-2005	19-1005	BC-566	72F105AP	T860	
L22	Peaking (62uh)	20-2528 ③	19-2023 ††	TV-181 ††	72F825AP ††	T301 ††	
L23	Chroma Takeoff	S-73043					
L24	Peaking (42uh)	20-2008	19-7047	TV-180	72F395AP	TA323	
L25	Chroma Bandpass	S-72418					
L26	Burst Phase	S-77905					
L27	Peaking (42uh)	20-2008	19-7047	TV-180	72F395AP	TA323	
L28	3.58MC Osc. Control	S-69567					
L29	Phase Shift	95-2421					
L30	RF Choke (18uh)	20-2006	19-6022	TV-192	72F185AP	T300	
L31	Peaking (696uh)	20-2506 ④	19-3660 *	TV-206 *	6148 *	T327 *	
L32	3.58MC Trap	S-72324					
L33	RF Choke (18uh)	20-2006	19-6022	TV-192	72F185AP	T300	
L34	Peaking (696uh)	20-2506 ④	19-3660 *	TV-206 *	6148 *	T327 *	
L35	RF Choke (18uh)	20-2006	19-6022	TV-192	72F185AP	T300	
L36	Peaking (690uh)	20-2506 ④	19-3660 *	TV-206 *	6148 *	T327 *	
L37	3.58MC Dual Trap	S-72325					
L38	Damper Choke (10uh)	20-2005	19-1005	BC-566	72F105AP	T860	
L39	Damper Choke (10uh)	20-2005	19-1005	BC-566	72F105AP	T860	
L51	AFC Input	S-75619					
L52	AFC Discriminator	S-75249					

- ① Wound on 3900Ω Resistor.
② Wound on 15K Resistor.
③ Wound on 8200Ω Resistor.
④ Wound on 22K Resistor.

- † Shunt with 3900Ω Resistor.
†† Shunt with 15K Resistor.
††† Shunt with 8200Ω Resistor.
* Shunt with 22K Resistor.

- ▲ Drill new mounting hole. Disregard Tap.
† Use original shield.
* Add 100K Resistor.
■ Remove original 59pf capacitor from circuit.
* Replaces Coil only.

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							
		ZENITH PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	WORKMAN PART No.	
L40	Horiz. Oscillator	S-56877		H-161	WC-8A	HS-24	WLC-5	T107	
L41	Horiz. Efficiency (Linearity)	S-78277	MWC-6	6322					
L42	Pincushion Correction	S-74987							
L43	Right R/G Vert. lines	S-58038	MWC-6	H-184	WC-8A	WC-52	WLC-5	T107	
L44	Right R/G Horiz. lines	S-58041		H-162		WC-51			
L45	Right Blue Horiz. lines	S-73854	MWC-6	6322	WC-8A	WC-22	LLC5	T107	
L46	Convergence Yoke Assembly	S-76727 (S-76430) † (S-75667) †							
A	Green Section Alternate	S-76726 *							
B	Blue Section Alternate	S-74579							
C	Red Section Alternate	S-76725 * S-74580 S-76724 * S-74561							

† Used in some versions. * Used in 25-inch versions.

FILTER CHOKE

ITEM No.	RATINGS		REPLACEMENT DATA						NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (DC CURRENT 1000~)	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L47	.5A DC	15Ω	.75 H	95-2402					
L48	.03A DC	1.5Ω	.035 H	95-2347					

TRANSFORMER (POWER)

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	PRI.	SEC. 1	SEC. 2	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ 3.25A AC	300VAC @ .5A DC	6.3VAC @ 1.22A AC	95-2494					
		SEC. 3							
		12.6VAC, CT @ 6.5A AC							

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA						NOTES
		ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.		
T2	Vert. Output	95-2470(E)						
T3	Yoke (Vert. 20mh) 90° (Horiz. 11.2mh)	.95-2501		DY-91AC	Y-108	YC-310-2		
T4	Horiz. Output	S-76970						

* COMPONENT CONNECTION DATA

ORIGINAL → REPLACEMENT ↓	HV TRANSFORMER				VERTICAL OUTPUT				YOKE								YOKE PLUG												
	Original Connections				Original Connections				Original Connections								1	2	3	4	5	6	7	8					
									1	2	3	4	5	6	7	8	9	10	11	12	13	14	TO YOKE TERMINAL						
MERIT																													
STANCOR																													
THORDARSON																													
TRIAD																													

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA						NOTES
	PRI.	SEC.	ZENITH PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.		
T5	7700Ω	3-4Ω	95-2563(-AQ)	A-3020	A-8092	26S48	S-18X		

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA			NOTES
		ZENITH PART No.	JENSEN PART No.	QUAM PART No.	
SP1	3" x 5" PM 3-4Ω 6" x 9" PM 3-4Ω 6" x 9" PM 6-8Ω	49-1131 ① 49-1059 ② 49-1133 ② 49-1060 ③ 49-1109 ④	P3X5X3 P6X9V3 P6X9V8	35BJ 69A1 69A3Z8	

- ① Models T2953R/W, T2955W4, T2957W, S2958W, T2969W, T2971M, T2972H, Y4518R/W, Y4519W4, Y4520M4, Y4522W, Y4523H/R, Y4525M, Y4528H, Y4531DE, Y4534W, Y6522W.
② Models T2973W, Y4533W, Y4537M, Y4539H/R.
③ Model T2979W (2 used).
④ Models Y4202Y, Y4204L1/W, T2940L1, Y4206W, Y4216W, Y4502W/W1, Y4507W, Y4514R/R1/W/W1, Y4516R/W/W1, Y4517M1, Y6206W, Y6507W/Y.

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA							
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	
F1	Belfuse 1000-1 (1 Amp.)	136-71							
F2	2 1/2" length of #24 fuse wire	91-2061	62-61						
F3	2 1/2" length of #24 fuse wire	91-2061							
F4	2 1/2" length of #24 fuse wire	91-2061							

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ZENITH PART NO.	REPLACEMENT DATA
PC1	Vertical Integrator		87-4	Aerovox PA-764 Centralab PC-408 Sprague V-14

MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.	NOTES
M1	VHF Tuner VHF Tuner VHF Tuner VHF Tuner VHF Tuner VHF Tuner VHF Tuner	175-563 175-551 175-553 175-566 175-644 175-646 175-758	
M2	VHF Tuner UHF Tuner UHF Tuner	175-759 175-55B/G/J/K 175-54B/G/J/K	
M3	Crystal	103-89 or 103-71	3.58MC Assembly
M4	Delay Line	S-69565	Blue Lateral Assembly
M5	Magnet	S-71500 or S-67886 S072221	Purity Ring Assembly
M6	Magnet		
M7	Degaussing Coil		
S1	Switch	85-754	Normal-Service
S2	Switch		AFC Defeat

WIRING DATA

High Voltage Lead	Use BELDEN No. 8868 (25KV)
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8738 (Two Conductor)
300Ω Tuner Input Lead	Use BELDEN No. 8524 (Stranded) Available in 12 Colors
300Ω Antenna Lead-in	Use BELDEN No. 8225 (Foam Core) or 8285 (Foam Jacketed)
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor
	8485 (Round) - 5 Conductor
	8488 (Round) - 8 Conductor

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

Replacement parts shown may be superseded by the availability of newly introduced replacements. Have your local distributor check Sams COUNTER FACTS' for the most up-to-date replacement.

TUBES

ITEM No.	USE	TYPE	REPLACEMENT DATA				ITEM No.	USE	TYPE
			AMPEREX	GENERAL ELECTRIC	RCA	SYLVANIA			
V201	RF Amp.	6HA5					V10	Horiz. AFC - Horiz. Osc. - Horiz. Discharge	6U10
V202	Mixer - Osc.	6GJ7					V11	Horiz. Output	6LB6 (6LF6) *
V1	1st Video IF	6EH7/EF183					V12	Damper	6CJ3 (6DW4/A) *
V2	2nd Video IF	6EH7/EF183					V13	HV Rectifier	3A3A
V3	3rd Video IF	6EJ7/EF184					V14	HV Regulator	6HS5
V4	Video Cathode Follower - 1st Chroma Bandpass Amp.	6KT8					V15	Pincushion Correction - 2nd Chroma Bandpass Amp.	6KT8
V5	Video Output	12HL7					V16	Color Killer Detector - Chroma Sync Phase Det.	6JU8A
V6	Sound, Sync Amp. - Sound IF	6KT8					V17	B-Y Demodulator	6ME8
V7	Audio Det. - Audio Output	6Z10					V18	Burst Amp.	6JC8A
V8	AGC Keying - Vert. Mult. - Noise Canceller - Sync Sep.	6BA11					V19	Chroma Ref. Osc. Control - Chroma Reference Osc.	6GH8A
V9	Vert. Mult. - Vert. Output	6HE5					V20	R-Y Demodulator	6ME8

* Alternate

PICTURE TUBE

ITEM No.	ZENITH PART No.	REPLACEMENT DATA			NOTES
		GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V21	25GP22A/25AP22A 22JP22 or 22QP22 or 21GNP22	25AP22A ▲	C-25AP22A H-22JP22 ■	RE25AP22A * RE22JP22 *	▲ Aluminized ■ Hi-Lite * Color Bright "85" ① Models T2940L1, Y4202Y, Y4204L1/W, Y4206W, Y4216W, Y6206W.

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA				NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	
Q301		UHF Oscillator	DS-74	GE-11	TR-24	SK-3019	121-551
Q1		Video Amp.	DS-74	GE-11	TR-21	SK-3018	121-587
Q2		AFC Buffer Amp.	DS-74	GE-11	TR-21	SK-3018	121-546 (121-547) *

* Alternate

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.250A	212-76 (212-37) *	GE-504A	8D6 or 18D68A ①	1N2071 or FW800 ①	SK-3016 or SK-3017A	60C or S-959-3 ①
X2	.250A	212-76 (212-37) *	GE-504A	8D6 or 18D68A ①	1N2071 or FW800 ①	SK-3016 or SK-3017A	60C or S-959-3 ①
X3	.250A	212-76 (212-37) *	GE-504A	8D6 or 18D68A	1N2071 or FW800 ①	SK-3016 or SK-3017A	60C or S-959-3 ①
X4	.250A	212-76 (212-37) *	GE-504A	8D6 or 18D68A	1N2071 or FW800 ①	SK-3016 or SK-3017A	60C or S-959-3 ①
X5		212-85	GEGR-1	61-8968			S-880
X6		212-68	GEGR-2	61-8968			S-879
X7		212-72	GE-504A ②	8D4 ② or 5A4-D ②	A50 ② or 1N536 ②		S-810 or E-1 ②
X8		103-23		1N60			
X9		103-79		1N60			
X10		103-79		1N60			
X11		103-23		1N60			
X12		103-51		1N60			
X13		103-51		1N60			
X14		103-51		1N60			
X15		103-114		1N34AS			
X16		103-142		1N34AS			
X21		103-90 (1N542) ③		1N60			
X22		103-90 (1N542) ③		1N60			

CAPACITORS

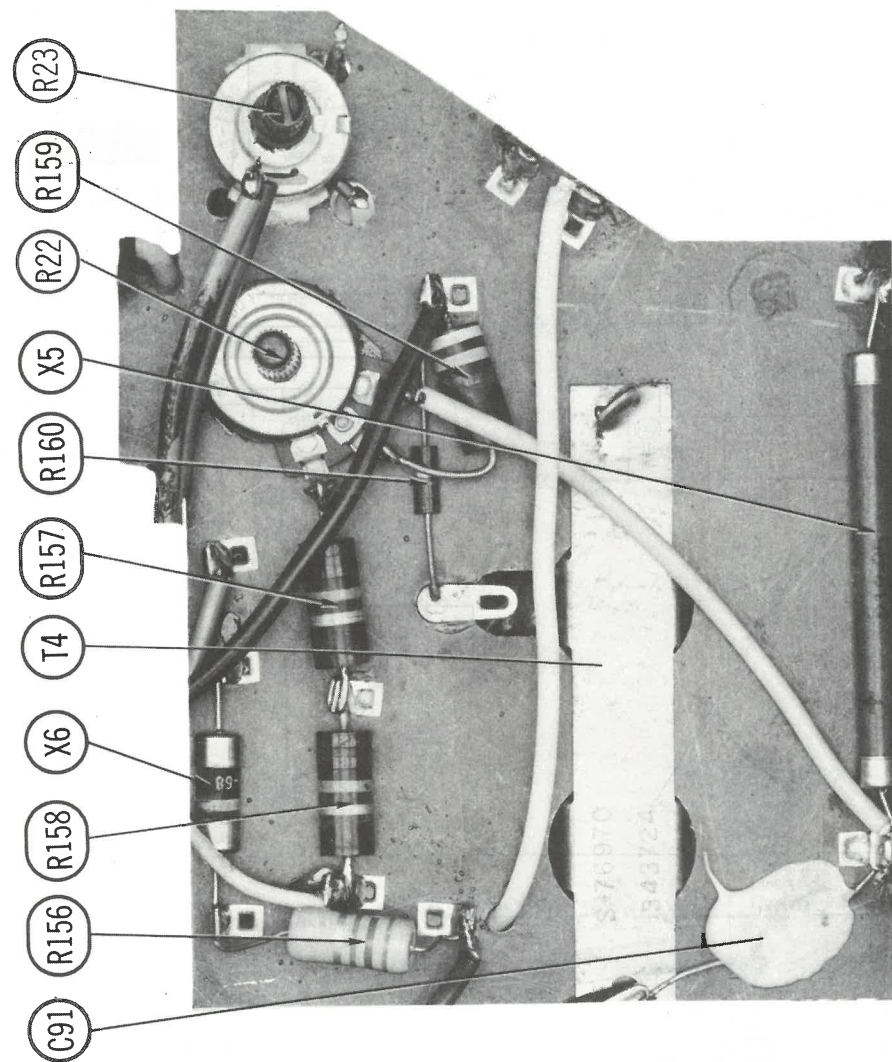
ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOPART No.	MALLORY PART No.	SPRAGUE PART No.
C11	20	NPO	NPO-DI 20	DTZ-20	JBZ601YP471K	CCTO-200	CNO420	10TCC-Q20
C12	470	1KV	DI-470	DD-471		CCD-471	GP347	10TS-T47
C13	1-9			B29-10				
C14	22	NPO	NPO-DI 22	DTZ-22	CY601CG220K	CCTO-220	CNO422	10TCC-Q22
C15	36	NPO 5%		TCZ-36		CCD-360		
C16	5	NPO ±.25	NPO-DI 5.0	DTZ-4R7	CZ601CH5R0D	CCTO-050	CNO547	10TCC-V50
C17	47	N75					*	
C18	59	NPO 5%						
C19	16	NPO 5%						
C20	.033	100V						
C21	.001	1KV						
C22	30	N75						
C23	.001		DI-1000	DD-102	DMF4S33	4DP-2-333		4PS-S33
C24	.001	N1500	DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C25	.001		DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C26	.001		DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C27	47	N75						
C28	470	N1500						
C29	100		DI-100	DD-101	JBZ601YP101K	CCD-101	GP310	10TS-T10
C30	.001		EF-001	MFT-1000		CCF-102	CT280A	
C31	50	N750		TCN-30			*	10TCU-Q50
C32	.001	N4700 1KV					*	
C33A	6	±.5		DD-060				
C34	.82	5%		DD-060				
C35	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C36	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C37	47	N75 5%						
C38	3.3		NPO-DI 3.3	DTZ-3R3		CCTO-3R3	CNO533	10TCC-V33
C39	50	N750		TCN-50				10TCU-Q50
C40	220		DI-220	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C41	.22	400V		TCZ-56	DMF4P22	4DP-5-224	PVC4022	4PS-P22
C42	53	NPO 5%						
C43	56	NPO 5%						
C44	7	NPO ±.5						
C45	10	NPO						
C46	470		NPO-DI 10	DTZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10
C47	.0033		DI-470	DD-471	JBZ601YP470K	CCD-471	GP347	10TS-T47
C48	.068	200V	DI-3300	DD-332	JBW601YP332K	CCD-332	GP233	10TS-D33
C49	.01		DI-10000	DD-103	DMF4S33	4DP-3-483	PVC6168	4PS-S68
C50	150	N750	N750-DI 150	DTN-150	BYX601ZU103M	CCD-103	GP110	10TS-S10
C51	.1	200V	DBE2P1		DMF2P1	CCTN-151	CN7315	10TCU-T15
C52	.001		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C53	.001	1KV	DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C54	180	5%	ADM-15-181	CPR-180J	CD15P181J500	DM-15-181	SK318	MS-318
C55	100	5%	ADM-15-101	CPR-100J	CD15P101J500	DM-15-101	SK310	MS-31
C56	.01		DI-10000	DD-102	BYX601ZU103M	CCD-103	GP110	10TS-S10
C57	220		DI-220	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C58	20	N330					*	10TCS-Q20
C59	470	N1500					*	
C60	150	N750	N750-DI 150	DTN-150		CCTN-151	CN7315	10TCU-T15
C61	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C62	.0047		DI-4700	DD-472	JBW601YP472K	CCD-472	GP247	10TS-D47
C63	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C64	.0022	1KV	DI-2200	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C65	.001		DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C66	.1	400V	DBE4P1		DMF4P1	4DP-3-104	PVC601	4PS-P10
C67A	.0022		DI-2200	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C68	.0022		DI-2200	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C69	.01	600V	DBE6D33	CPR-3300J	DMF6D33	6DP-1-332	PVC6233	6PS-D33
C70	.033	200V	DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C71	.0022		DI-2200	DD-222	DMF4S33	4DP-2-333	PVC6133	4PS-S33
C72	.1	600V	DBE6P1		DMF6P1	6DP-4-104	PVC601	6PS-P10
C73	.47	200V	DBE2P47		DMF2P47	2DP-5-474	PVC2047	2PS-P47
C74	.033	200V	DBE4S33		DMF4S33	4DP-2-333	PVC6133	4PS-S33
C75	220	1KV	DI-220	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C76	.0012	1KV	DI-1200	DD-122G	JBS601YP122K	CCD-122	GP212	10TS-D12
C77	.0022		DI-2200	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C78	100	N1500 3KV					*	
C79A	51		DD-510					
C80	.0022		DI-2200	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C81	.0022		DI-2200	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C82	.047	100V	DBE2S47		DMF2S47	4DP-3-473	PVC2147	2PS-S47
C83	680		ADM-20-681	CPR-680J	CD19P681J500	DM-16-681	SK368	MS-368
C84	.0015	400V	DBE6D15	CPR-1500J	DMF6D15	6DP-1-152	PVC6215	6PS-D15
C85	.0011	400V	ADM-20-112	CPR-1100J	CD19P112J500	DM-19-112	SK211	MS211
C86	.0047		DI-4700	DD-472	JBW601YP472K	CCD-472	GP247	10TS-D47
C87	.001	1KV	DI-1000	DD-102	JBS601YP102K	CCD-103	GP210	10TS-D10
C88	680	1KV	DI-680	DD-681	JBW601YP681K	CCD-681	GP368	10TS-T68
C89	330		DI-330	DD-331	JBZ601YP331K	CCD-331	GP331	10TS-T33
C90	.0047		DI-4700	DD-472	JBW601YP472K	CCD-472	GP247	10TS-D47
C91	150	N1500 6KV						
C92	75	4KV						
C93	68	N750	N750-DI 68	DTN-68	CS601UJ680K	CCTN-680	CN7468	60GA-Q75
C94	150	N750	N750-DI 150	DTN-150		CCTN-151	CN7315	10TCU-T15
C95	.047	400V	DBE4S47		DMF4S47	4DP-3-473	PVC4147	4PS-S47
C96	.22	200V	DBE4P22		DMF4P22	4DP-5-224	PVC4022	4PS-P22
C97	.45	N1500 5KV						
C98	.1	1KV	BE10P1					10TM-P10
C99	.001	1KV	DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C100	.22							
C101	.33							
C102A	.001		DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C103A	.001		DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C104	.1	200V	DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C105	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C106	220		DI-2200	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C107	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C108	220		DI-110	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C109	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C110	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C111	100		DI-100	DD-101	JBZ601YP101K	CCD-101	GP310	10TS-T10
C112	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C113	.36	N033 5%						
C114	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C115	.001		DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C116	.001		DI-1000	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C117	120	NPO		TCN-120		CCTN-121	CN7312	10TCU-T12
C118	.0015		DI-1500	DD-152		CCD-152	GP215	10TS-D15

PARTS LIST AND DESCRIPTION (CONTINUED)

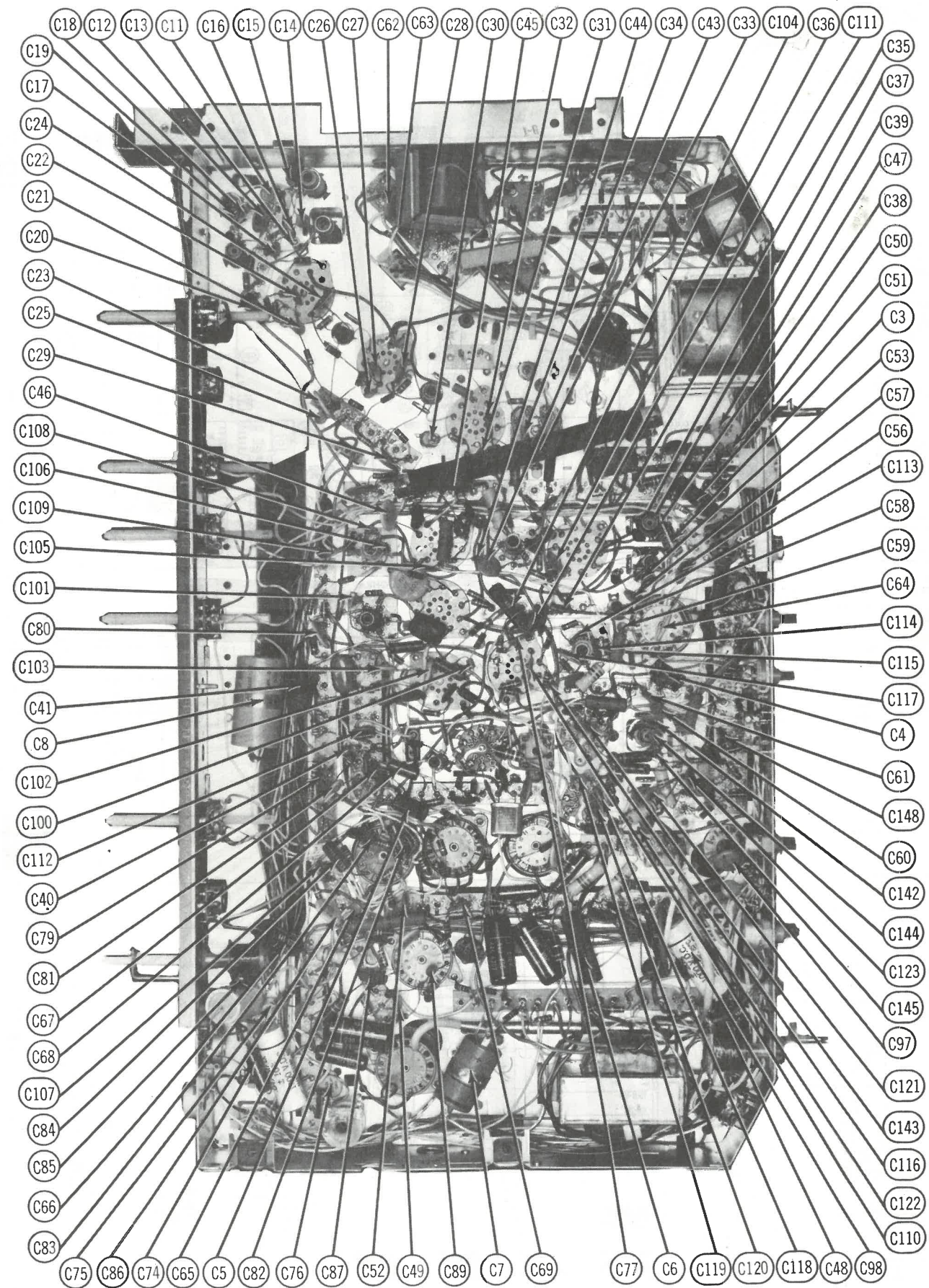
(When ordering parts, state Model, Part Number, and Description.)
Replacement parts shown may be superseded by the availability of newly introduced replacements.
Have your local distributor check Sams COUNTER FACTS for the most up-to-date replacement.

CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.	
C119	.01	#22-3786	DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C120	100		DI-100	DD-101	JBZ601Y P101K	CCD-101	GP310	10TS-T10	
C121	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C122	150		DI-150	DD-151		CCD-151	GP315	10TS-T15	
C123	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C124	10		NPO	NPO-DI 10	DTZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10
C125	.01			DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C126	.01			DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C127	.047		600V	DBE6S47		DMF6S47	6DP-3-473	PVC6147	6PS-S47
C128	12		N220 5%				*		10TCR-Q12
C129	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C130	.62								
C131	100		DI-1000	DD-101	JBZ601Y P101K	CCD-101	GP310	10TS-T10	
C132	.1	400V	DBE4P1		DMF4P1	4DP-3-104	PVC601	4PS-P10	
C133	2								
C134	.01	#22-2434	DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C135	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C136	220		DI-220	DD-221	JBZ601Y P221K	CCD-221	GP322	10TS-T22	
C137	18		NPO 5%	TCZ-18		CY601CG180J	CCTO-180	CNO418	10TCC-Q18
C138	.001		1KV	DI-1000	DD-102	JBS601Y P102K	CCD-102	GP210	10TS-D10
C139	100		NPO 5%	NPO-DI 100	DTZ-100	CY601CG101K	CCTO-101	CNO310	10TCC-T10
C140	.01			DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C141	.01			DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C142	.0015			DI-1500	DD-152		CCD-152	GP215	10TS-D15
C143	.01			DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10
C144	10	NPO	NPO-DI 10	DTZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10	
C145	10	NPO	NPO-DI 10	DTZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10	
C146	68	N750	N750-DI 68	DTN-68	CS601UJ680K	CCTN-680	CN7468	10TCU-Q68	
C147	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C148	.01		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C149A	.001	1KV	DI-1000	DD-102	JBS601Y P102K	CCD-102	GP210	10TS-D10	
C150	.001	1KV	DI-1000	DD-102	JBS601Y P102K	CCD-102	GP210	10TS-D10	
C151	.01	1.5KV	DI-1000	DD-102	JBS601Y P102K	CCD-102	GP210	10TS-D10	
C152	.01		DAC-27	DD16-103	HVT1622V13 P3		UAC110	10TS-D10	
C153	.056	200V	DI-10000	DD-103	BYX601ZU103M	CCD-102	GP110	10TS-S10	
C154	.1	100V	DI-1000	DD-102	PKM4556	4DP-2-663	PVC4056	4PS-S66	
C155	.082	200V	DI-1000	DD-102	DMF2 P1	2DP-3-104	PVC201	2PS-P10	
C156	.1	200V	DI-10000	DD-102	DBE6S82	2DP-4-823		6PS-S82	
C157	.001		DI-1000	DD-102	DMF2 P1	2DP-3-104	PVC201	2PS-P10	
C158	.01		DI-10000	DD-103	JBS601Y P102K	CCD-102	GP210	10TS-D10	
C159A	.001		DI-1000	DD-102	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C160	.1	600V	DI-1000	DD-102	JBS601Y P102K	CCD-102	GP210	10TS-D10	
C161	220		DI-1000	DD-102	JBS601Y P102K	CCD-102	GP210	10TS-D10	
C162	2.2	5%	DI-1000	DD-102	DMF6 P1	6DP-4-104	PVC601	6PS-P10	
C163	.033	200V	DI-220	DD-221	JBZ601Y P221K	CCD-221	GP322	10TS-T22	
C164	.001		NPO-DI 2.2	DTZ-2R2	CZ601CJ2R2D	CCTO-2R2	CNO622	10TCC-V22	
C165	.470		DBE4533		DMF4533	4DP-2-333	PVC6133	4PS-S33	
C166	.01	1KV	DI-1000	DD-102	JBS601Y P102K	CCD-102	GP210	10TS-D10	
C167	.001		DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C168	.1	1KV	DI-1000	DD-102	JBS601Y P102K	CCD-102	GP210	10TS-D10	
C169	.01	1KV	BE10P1		PKM10P1			10TM-P10	
C170	.047	1KV	DI-10000	DD-103	BYX601ZU103M	CCD-103	GP110	10TS-S10	
C171	8.2	NPO 5%	BE10S47		DPMS16S47	16DP-3-473	GEM10147	10TM-S47	
C172	.002		NPO- 8.2				CCF-202	10TCC-V82	
C173	6.8	N75							
C174	10		NPO-DI 10	DTZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10	
C175	10		NPO-DI 10	DTZ-10	CZ601CG100J	CCTO-100	CNO410	10TCC-Q10	
C176	.001		EF-001	MFT-1000		CCF-102	CT280A		
C177	.001		EF-001	MFT-1000		CCF-102	CT280A		
C178	.001		EF-001	MFT-1000		CCF-102	CT280A		
C179	.001		EF-001	MFT-1000		CCF-102	CT280A		
C180	220								
C181	470		DI-470	DD-471	JBZ601Y P471K	CCD-471	GP347	10TS-T47	



HIGH VOLTAGE CIRCUIT



CHASSIS - BOTTOM VIEW



1. Follow "Chassis Removal" procedure and lay set face down on a soft protective surface.
2. Remove blue lateral assembly, convergence yoke and deflection yoke from the neck of the picture tube.
3. Remove 4 screws holding shield and degaussing coil. Remove shield and degaussing coil from cabinet.
4. Remove 8 screws from picture tube mounting brackets. Remove picture tube from the cabinet. Do not lift picture tube by the neck of the tube.

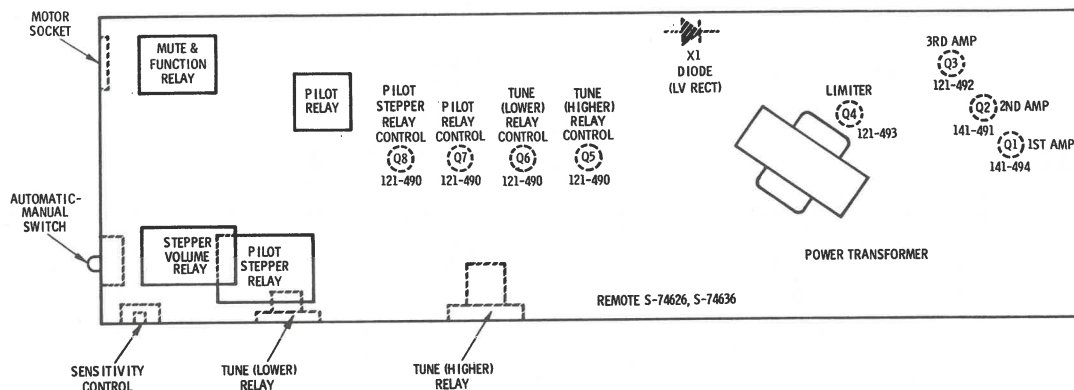


PHOTOFACT® Folder

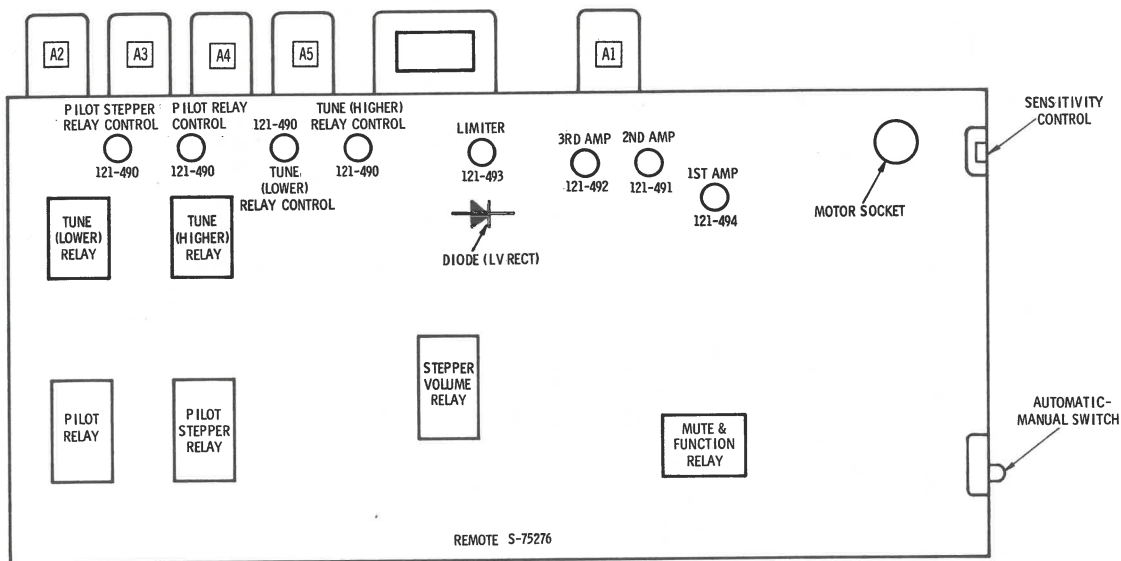
**ZENITH REMOTE
CONTROL S-74626, S-74636, S-75276**

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 927 FOLDER 2. File this Folder with the TV Folder in the yellow filing jacket provided.



TRADE NAME	Zenith
SUPPLIER	For current address, see Annual Index.
TYPE SET	Remote Control Receiver S-75276, S-74636, S-74626
POWER SUPPLY	110-120 Volts AC, 60 Cycles



HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. SB252

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DATE 12 -67

SET 927 FOLDER 2-A

**ZENITH REMOTE
CONTROL S-74626, S-74636, S-75276**

SET 927 FOLDER 2-A

