

CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove nine screws holding cabinet back. Disconnect antenna leads and remove all knobs.

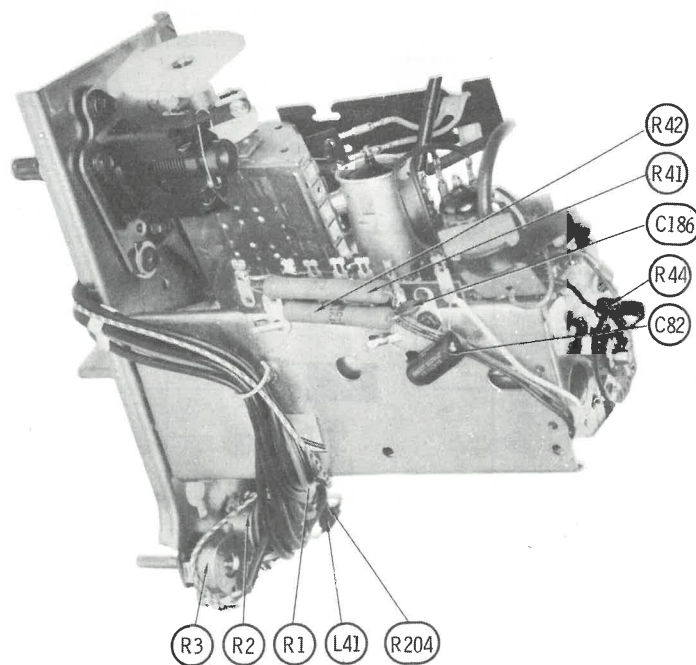
Note: Set may be serviced now by removing metal cover on bottom of cabinet.

2. Remove picture-tube socket, HV anode lead, degaussing connectors, yoke plug, convergence plug, speaker leads and grounding strap.
3. Loosen three screws holding tuners and control assembly. Lift assembly straight up and back.
4. Remove four screws holding metal cover on bottom of cabinet. Remove eight screws se-

curing chassis. Remove tuner and control assembly from the cabinet.

PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" procedure and lay set face down on a soft protective surface.
2. Remove blue lateral and purity-ring assembly, convergence assembly and deflection yoke from the picture-tube neck.
3. Remove four screws securing degaussing shield assembly and picture tube. Lift picture tube out of the cabinet. Do not lift picture tube by the neck.



PHOTOFACT® Folder



For Supplier Address See PHOTOFACT Index

ZENITH CHASSIS
14A9C29, 14A10C29

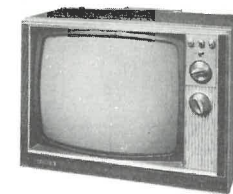
COLOR TV

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 Receiver S-80373...Set 1116, Folder 3-A



MODEL A3914W6

MODELS	CHASSIS
A3906J5/J6	14A9C29
A3914P5/P6/W5/W6 ..	14A10C29
A5922W5	14A10C29
T2932W5/W6	14A10C29

SAFETY PRECAUTIONS

Make sure line voltage does not exceed rating of set. Check high-voltage regulation and adjust to correct value.

Be sure shields and rear cover are in place and secure.

Beware of shock from high voltage or AC line. Discharge high voltage to HV cage only.

Use extreme care when handling picture tube. Do not bump, scratch, or exert undue strain.

SERVICING IN THE FIELD

CRT IMPLOSION PROTECTION AND CLEANING

Implosion protection is an integral part of the picture tube, cleaning accomplished without CRT removal.

FUSE OR FUSE DEVICE

A 1.2A and a .35A fuses are used for low-voltage power-supply protection.

Four 2-1/2" #24 copper wires are used for filament protection. (See photo "Chassis - Bottom View", page 40, for location.)

VHF TUNER

The fine tuning mechanically engages oscillator slug for adjustment (one slug for each channel).

HORIZONTAL OSCILLATOR

Adjustment of the horizontal hold is accomplished by the proper setting of the horizontal oscillator coil. (See "Tube Placement Chart" for location.)

WIDTH

The width may be varied by moving a

jumper. (See "Cabinet - Rear View" photo for location.)

FOCUS

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

AGC

The AGC may be varied by means of AGC Delay and AGC Level controls. (See "Tube Placement Chart" for location.)

BUZZ

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

CENTERING

Horizontal centering is accomplished by proper adjustment of the horizontal centering control.

Vertical centering is accomplished by proper adjustment of the vertical centering control. (For location, see "Cabinet - Rear View" photo for location.)

REMEMBER TO ASK— "What else needs fixing?"

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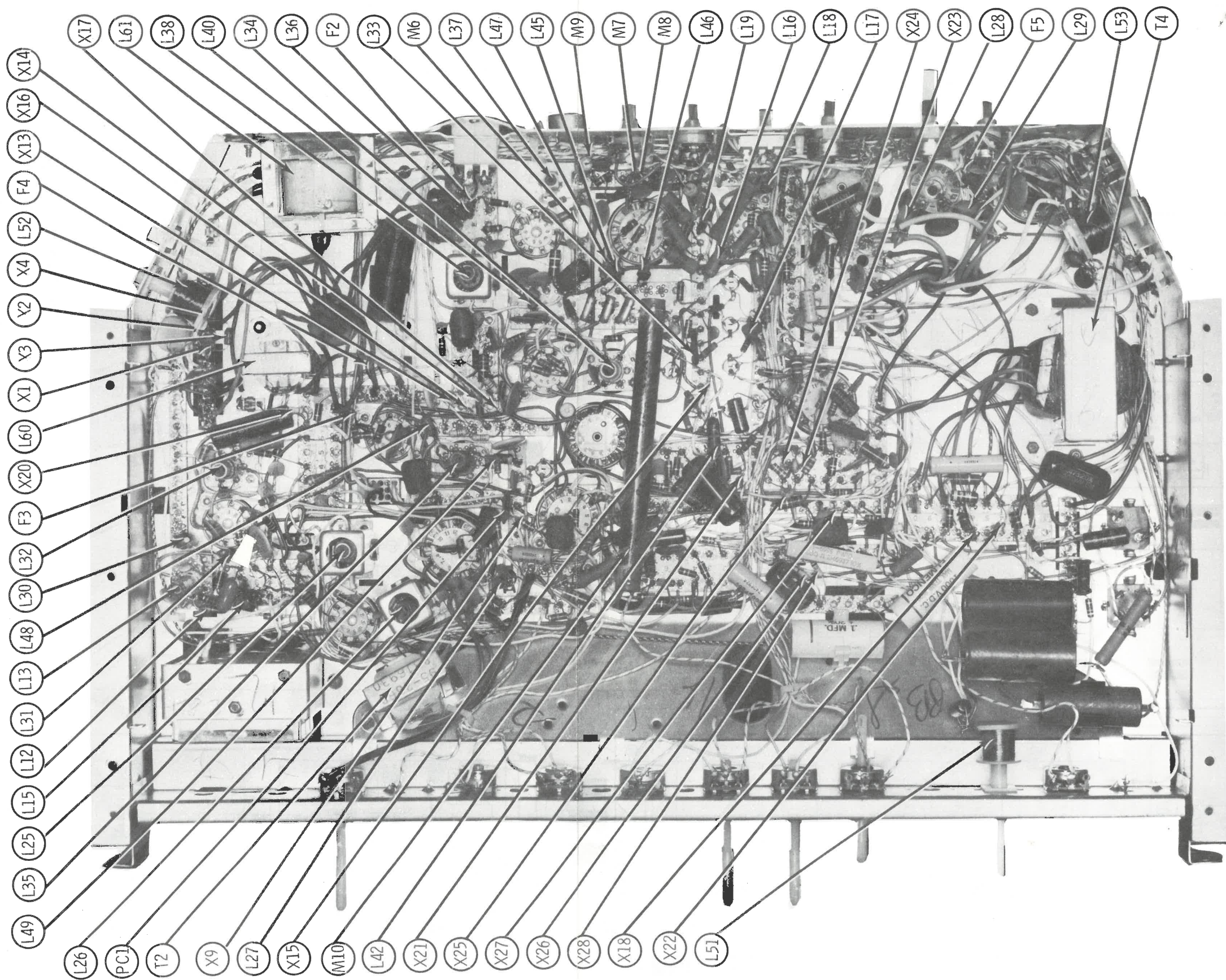


The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. UB721

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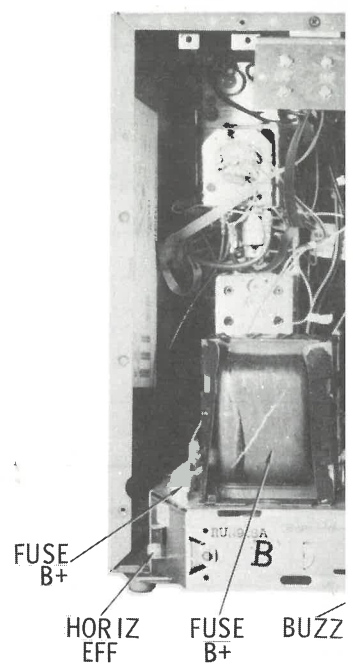
SET 1116 FOLDER 3



CHASSIS - BOTTOM VIEW

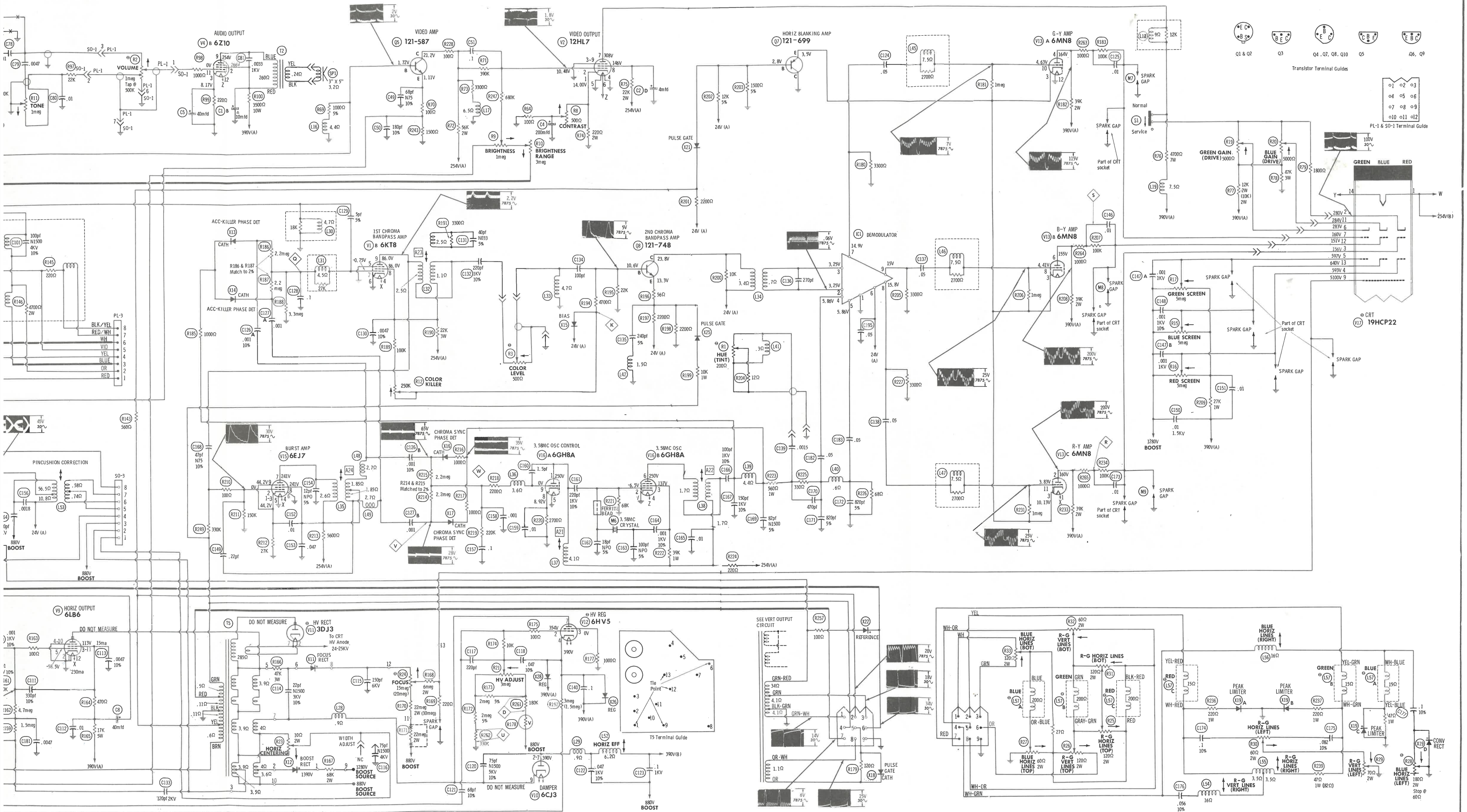
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FOLDER 3



CHASSIS REMOVAL

1. Remove nine screws holding cabinet cover. Connect antenna leads and remove cover on bottom of cabinet.
- Note: Set may be serviced now by removing cover on bottom of cabinet.
2. Remove picture-tube socket, HV assembly, gaussing connectors, yoke plug, plug, speaker leads and ground leads.
3. Loosen three screws holding tune assembly. Lift assembly straight up.
4. Remove four screws holding metal bottom of cabinet. Remove eight screws holding chassis.



* READING DEPENDS ON POLARITY OF METER CONNECTIONS.	† MEASURED FROM THE CATHODE OF X3 AND X4.
‡ MEASURED FROM PIN 9 OF V10.	†† MEASURED FROM THE CATHODE OF X12.
NC NO CONNECTION	TP TIE POINT
** READING WILL VARY DUE TO TRANSISTOR IN CIRCUIT.	



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: A1 thru A20.....GENERAL CEMENT #9606, 8606L, 8869...WALSCO #2543, 2544, 2588
Mixer Plate Coil... GENERAL CEMENT #9296, 9297, 9300...WALSCO #2510, 2546, 2547

VIDEO IF ALIGNMENT

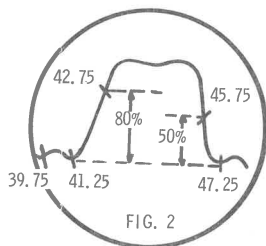
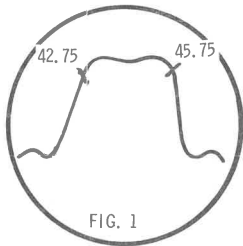
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from those shown. Connect a variable bias supply to the IF AGC line (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
1. Connect DC probe of a VTVM thru a 47K resistor to point C1. Common to ground.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		39.75MC 41.25MC 47.25MC	A1 A2, A3, A4 A5, A6	Adjust for MINIMUM.
2. Connect vertical input of a scope to point C1. Low side to ground.	Connect high side thru a .001mfd capacitor to Point Ⓢ. Low side to ground.	44MC (10MC Sweep)	42.75MC 45.75MC	A7,A8, A9	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
3. Connect vertical input of a scope to point C1. 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 42.75MC 45.75MC 47.25MC	A10, A11, A12, A13, A14, A15, 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 8 and A 9.

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 A16, A17, A18,A19, and Buzz control. If the hiss disappears during alignment, further reduce the signal strength.

4.5 MC TRAP ALIGNMENT

Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A20 for MINIMUM beat interference.



TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce indicated symptoms.

SWEEP

No raster, has sound V8 thru V12, V17
No vert. deflection V5, V6
Poor vert. lin. or foldover V5, V6
Poor horiz. lin. or foldover V9, V10
Narrow picture X1 thru X4, V8, V9, V10
Vert. off freq. V5, V6
Horiz. off freq. X23, V8

RASTER

Yellow - No blue V13, V17
Cyan - No red V13, V17
Magenta - No green V13, V17

PICTURE OR SOUND

No pic, no sound, no raster X1 thru X4, F1 thru F4
No pic, no sound, has raster Q1, Q2, Q3, V202, F6
No pic, no sound, has snow V201, V202, Q1
No pic, has sound, no raster V2, V17
No pic, has sound, has raster X5, V1, V2, Q5
Has pic, no sound X8, V3, V4
Overloaded picture Q6, V5
Low or excessive brightness Q7, V17
Poor focus X11

COLOR(B/W reception operating normally.)

No color X13 thru X17, V1,Q8,V15,V16
Weak color X13 thru X17, V1,Q8,V15,V16.
No color sync X13 thru X17, V15, V16
No blue V13, IC1
No red V13, IC1
Incorrect hue (tint) X13 thru X17, IC1, V15.

SYNC

No vert. sync V3, V5
No horiz. sync V3, V5, X23
No vert. or horiz. sync V3, V5

MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect a VTVM through a high-voltage probe to picture-tube anode connector. Remove Efficiency coil jumper and connect a 0-300ma meter across the terminals.

Tune in a TV station and set all controls for normal operation. Remove the horizontal hold knob. Turn shaft to lock in picture when changing from channel to channel. Reinstall knob with pointer centered between stops.

Adjust the Efficiency coil for MINIMUM current on millimeter. Remove meter and reconnect jumper across terminals.

The High-Voltage Adjustment Control (R21) is a factory adjustment on some models and is not readily accessible.

Should high voltage vary more than 1.5KV from nominal value (25KV) it may be adjusted by shorting across the designated test points on chassis.

If voltage is more than 1.5KV high short across test points ⓓ to lower voltage.

If voltage is more than 1.5KV low short across test points ⓓ.

If this fails to bring voltage within 1.5KV of normal voltage, check for component failure in high-voltage circuit.

If replacement of control becomes necessary, tune to a black-and-white program, set Normal-Service in Service Position. With 117V AC to set, and jumpers removed from test point ⓓ or ⓓ, adjust the HV Adjust Control for 25KV on picture-tube anode connector.

Adjust Focus, Height and Vertical Linearity controls.

CHROMA BANDPASS AFC ALIGNMENT

Connect a color bar generator to the antenna terminals and adjust the set for normal operation. Connect jumper from Points ⓓ to 24V source (across X15) and ⓓ to ground. Adjust A21 until color bars drift slowly across the screen. Connect a jumper from Point C1 to ground. Connect DC probe to VTVM through a 4.7meg resistor to Point ⓓ, low side to ground. Adjust A22 for maximum reading on meter.

Remove jumper from Points C1 and ⓓ & ⓓ. Set Color Level and Hue to the center of their ranges. Connect vertical input of scope to Point ⓓ, low side to the ground. Adjust Hue control for maximum 6th and 7th bars on scope (Fig. A).

Connect VTVM to Point ⓓ, low side to ground. Remove one end of R191, 3300-ohm resistor, across L32. Adjust A23 for MINIMUM voltage on VTVM. Remove VTVM and reconnect R191 across L32.

Connect vertical input of scope to Point ⓓ, low side to ground. Adjust A24 for equal amplitude of the 2nd and 4th bars on scope (Fig. B). Set Hue control to fully counter-clockwise position. The 1st and 3rd bars or 7th and 9th bars should be equal amplitude. If not, readjust A24. Set the Hue control to maximum clockwise. The 3rd or 4th and 5th bars should be of equal amplitude.

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.

Turn Red screen control to maximum and turn Blue and Green controls to MINIMUM. Loosen 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 a color picture with the Color control set at MINIMUM. Turn the Red, Blue and Green Screen controls to MINIMUM. Move the Normal-Service switch to the Service position. Advance the screen controls one at a time to produce a white line of medium brightness, or to produce Red, Blue and Green lines of equal brightness.

Return the Normal-Service switch to the Normal position. Adjust the Blue and Green Gain controls to eliminate coloring in the light and dark areas of the picture.

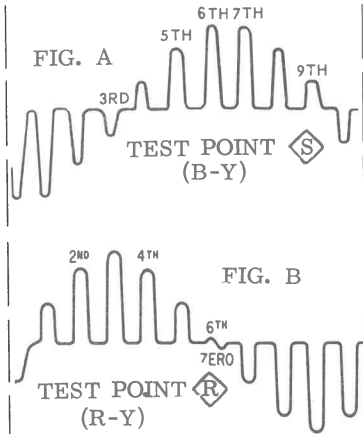
Turn Brightness to maximum and Contrast control to midrange. Adjust the Brightness Range until the picture blooms (distorts), then reduce the control to the point just below where the picture returns to normal.

The cathode leads of the picture tube are provided with quick-disconnect connectors so the least efficient gun may be connected direct.

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 set for a normal crosshatch pattern. Adjust Pincushion Correction Coil, L53, for straight horizontal lines at top and bottom of the screen.



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 R26	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 R32	Red and Green Vertical bars at bottom of screen.	
4.	R-G Horizontal Lines, Top R25	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 R31	Red and Green Horizontal bars at bottom of screen.	
6.	Blue Horizontal Lines, Top R27	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 R33	Blue Horizontal bars at bottom of screen.	
8.			Perform Center Dot Static Convergence (Fig. A).
9.	Blue Horizontal Lines, Right L56	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 R28	Blue Horizontal bars at left side of screen.	
11.	R-G Vertical Lines, Right L54	Red and Green Vertical bars at right side of screen.	(Fig. E)
12.	R-G Horizontal Lines, Right L55	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 R29	Red and Green Vertical bars at left side of screen.	(Fig. E)
14.	R-G Horizontal Lines, Left R30	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).

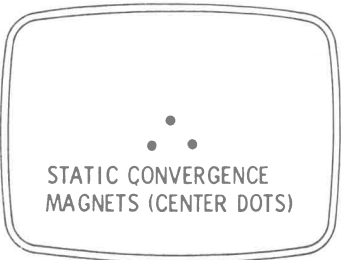


FIG. A

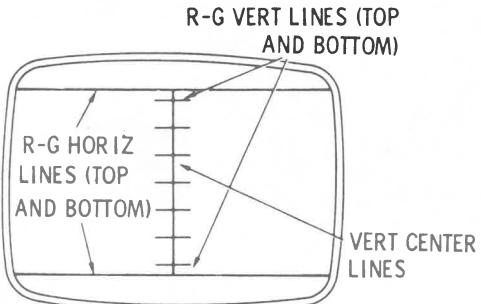


FIG. B
(RED AND GREEN ONLY)

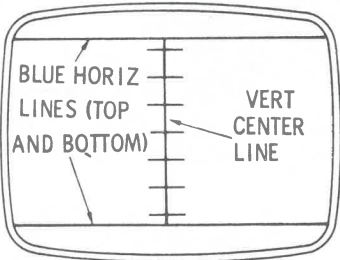


FIG. C
(BLUE BARS)

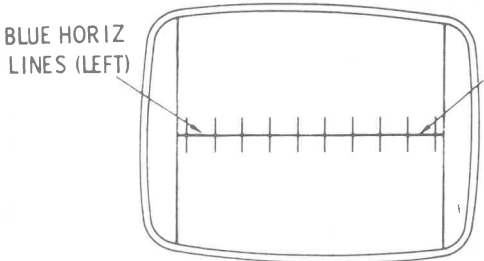


FIG. D
(BLUE BARS)

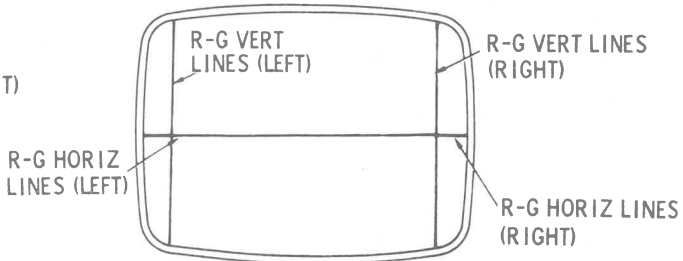
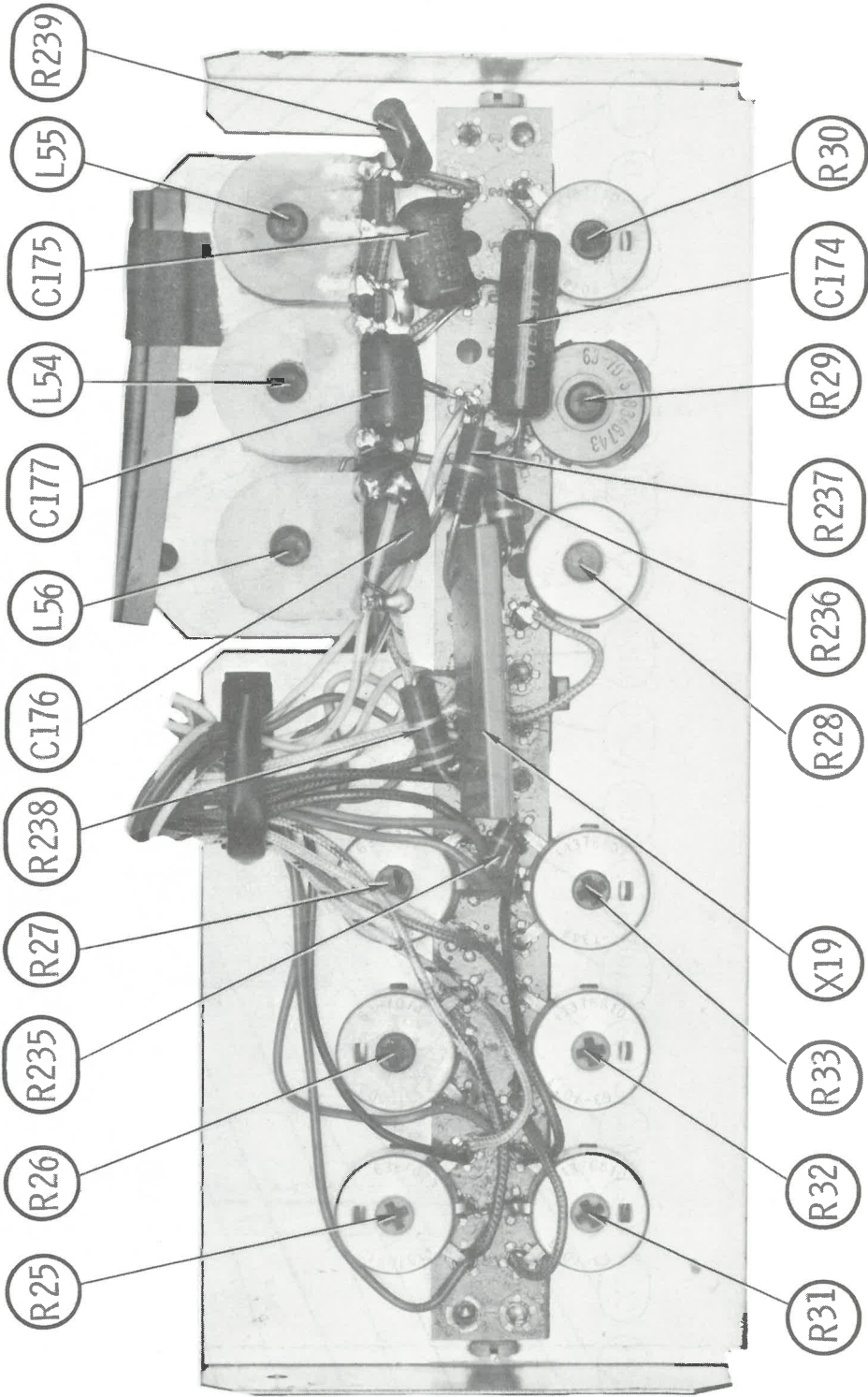


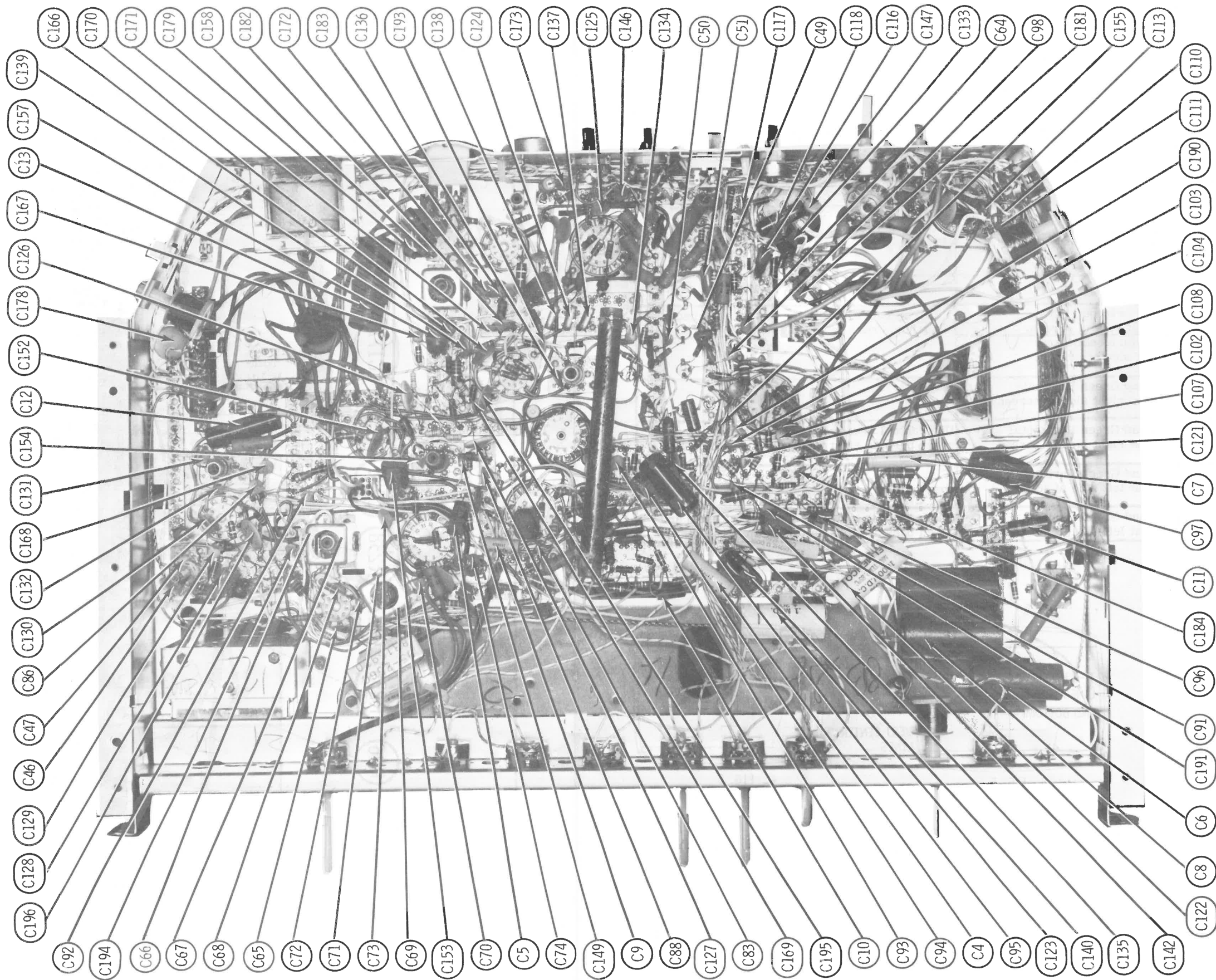
FIG. E



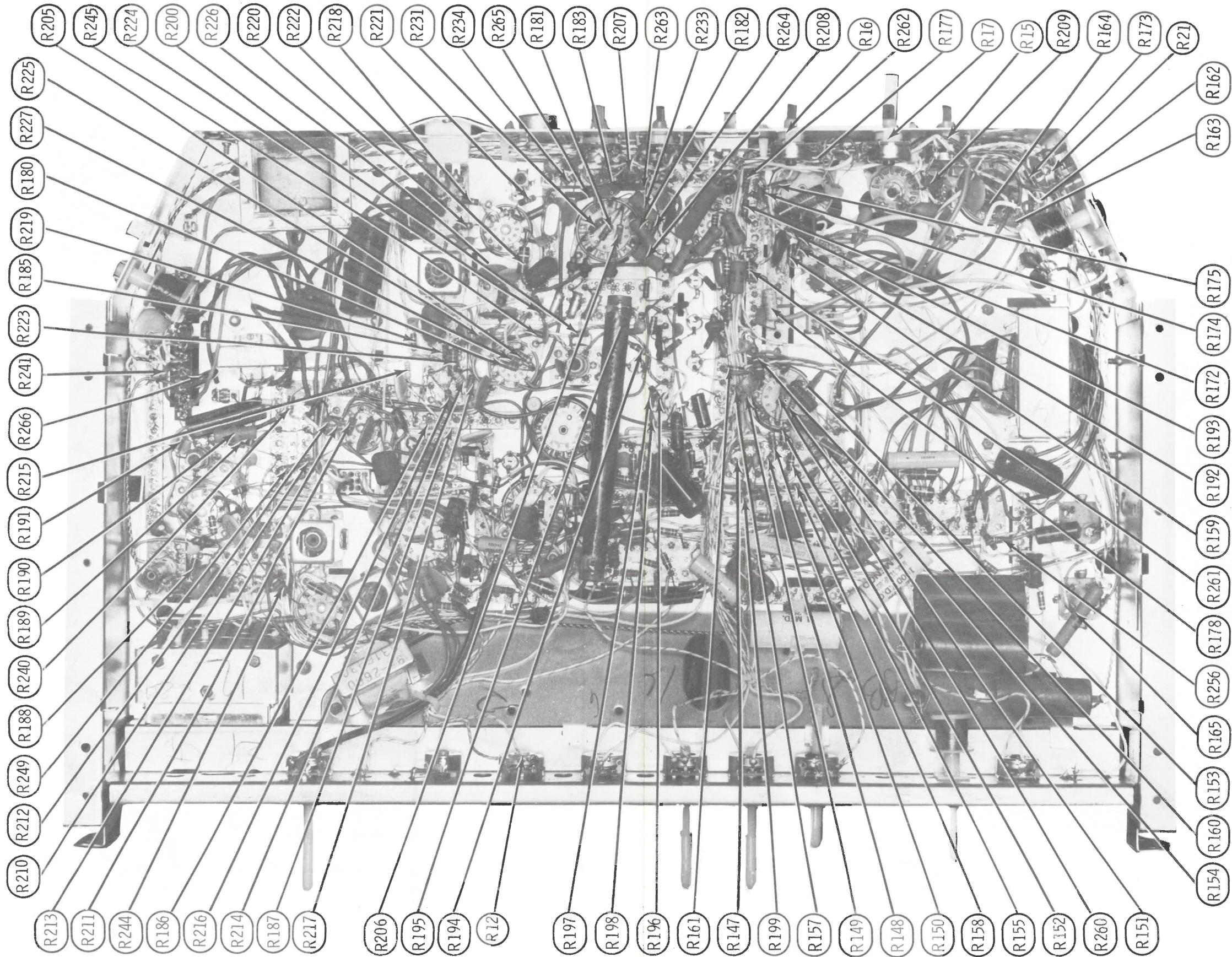
CONVERGENCE CHASSIS

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14A9C29, 14A10C29

FOLDER 3



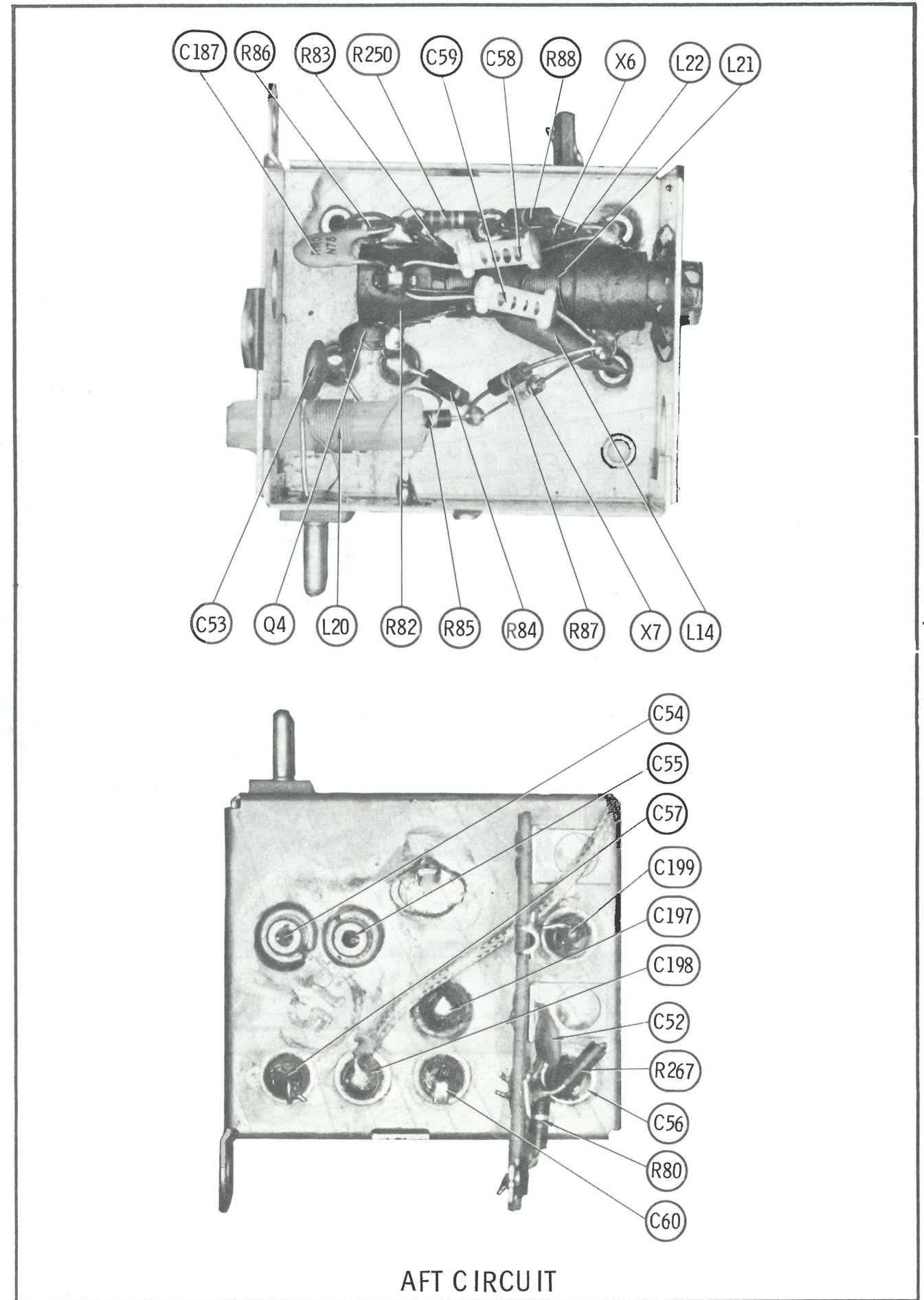
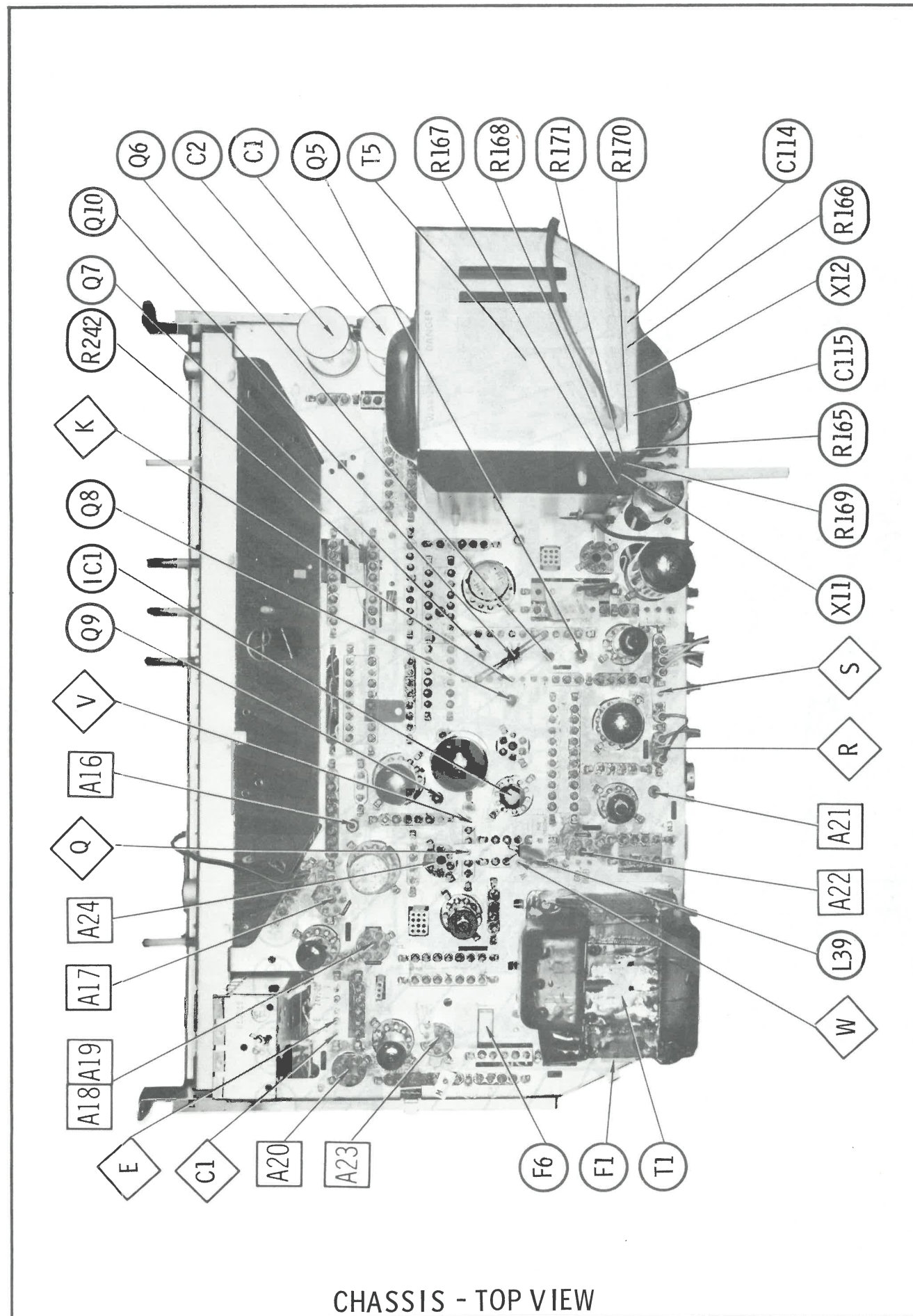
CHASSIS - BOTTOM VIEW

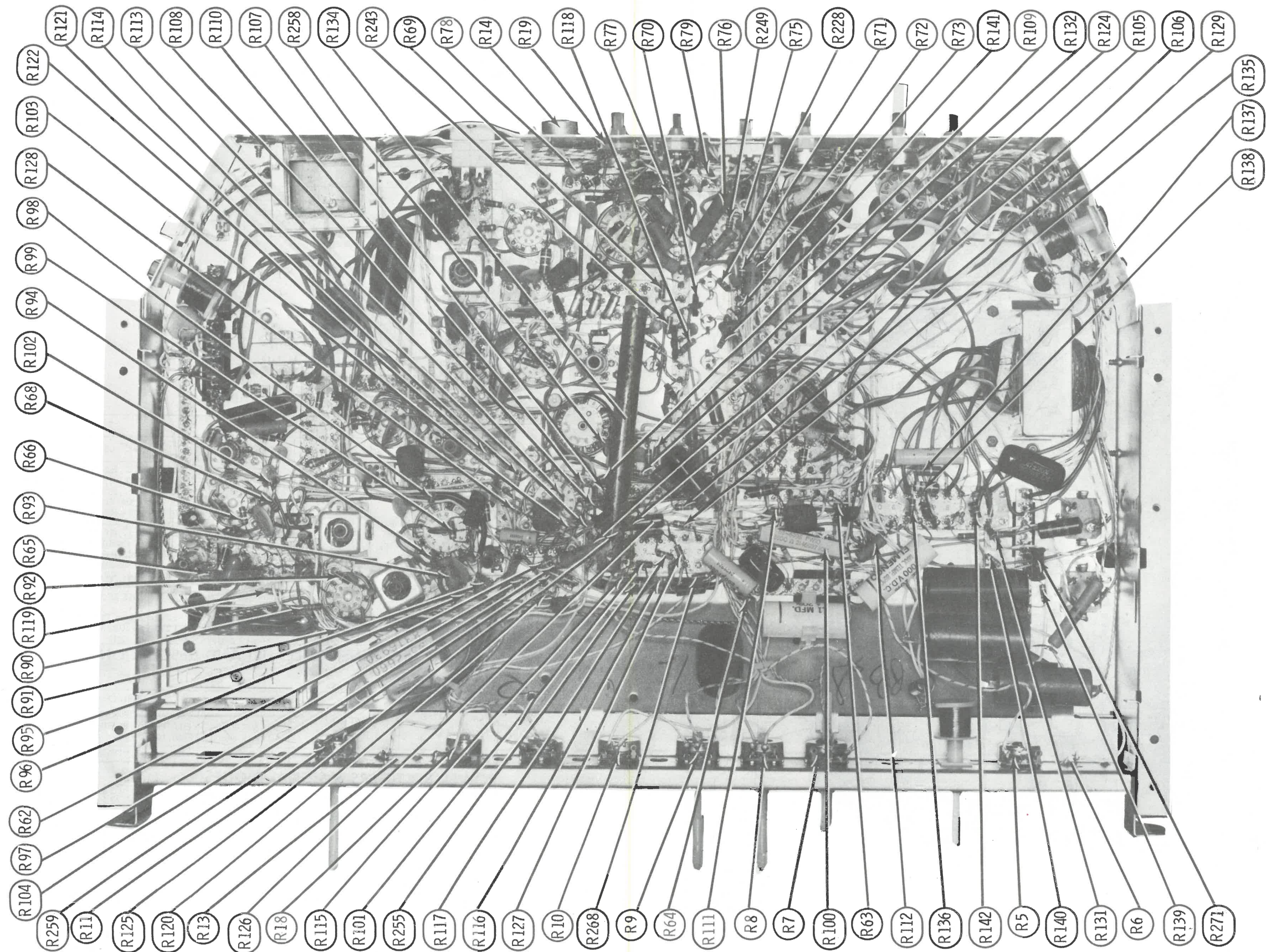


CHASSIS - BOTTOM VIEW

ZENITH CHASSIS
14A9C29, 14A10C29

FOLDER 3

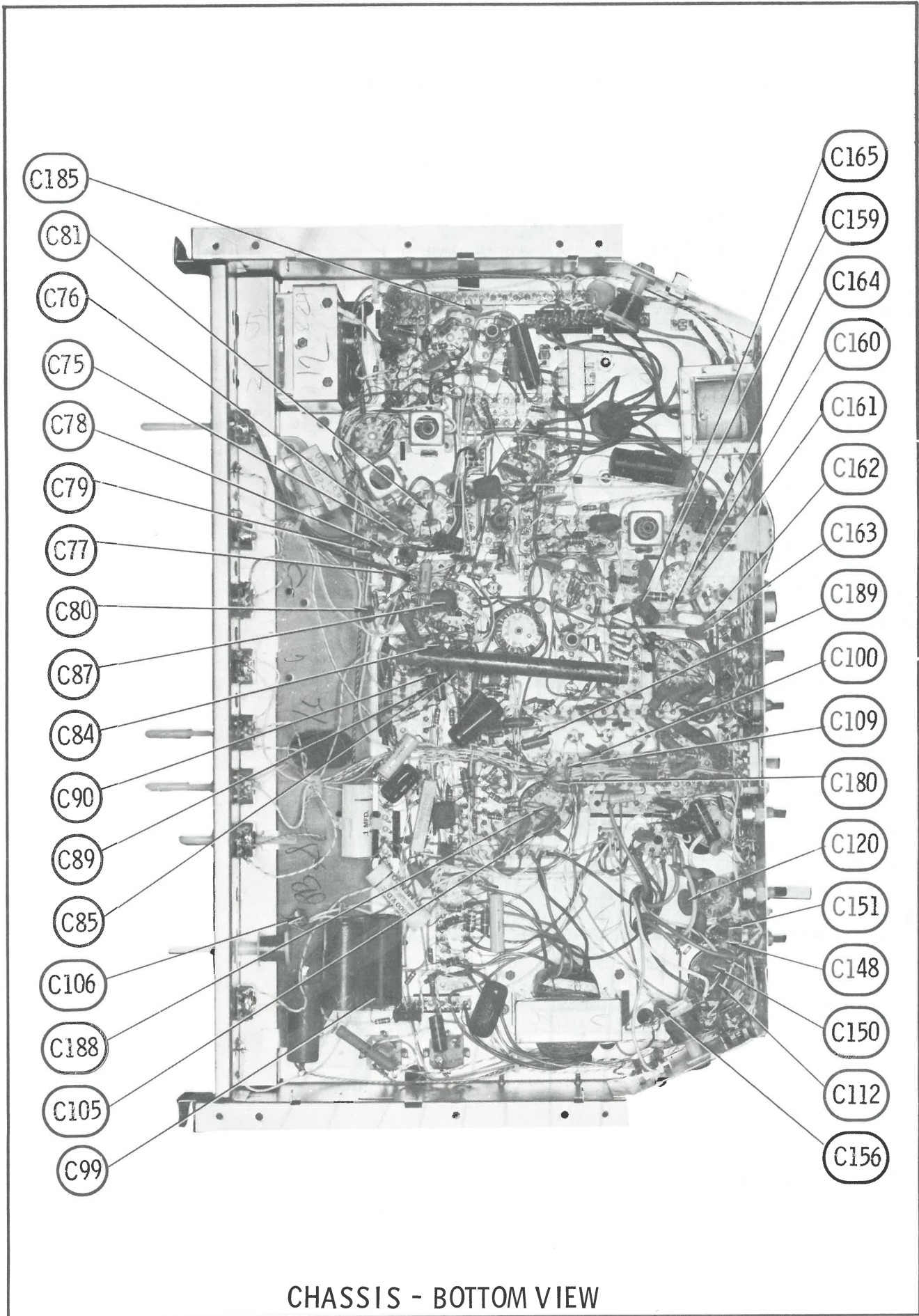




CHASSIS - BOTTOM VIEW

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14A9CC29, 14A10CC29

FOLDER 3



CHASSIS - BOTTOM VIEW

VHF TUNER PARTS LIST AND DESCRIPTION

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

TUBES

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

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	
X201	103-146					

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.
C201	15pf 5%	22-4822						
C202	.5-4.5pf	22-5239						
C203	47pf 500V 10%	22-4852						
C204	.5-4.5pf	22-5239						
C205	.001	22-3561						
C206	.33pf 500V 10%	22-3867						
C207	15pf	22-4679						
C208	1.2pf 500V 10%	22-2715						
C209	.5-4.5pf	22-5239						
C210	.001	22-3561						
C211	.002	22-5840						
C212	.001	22-3561						
C213	.001	22-3561						
C214	8.2pf N470 ±.25							
C215	4.7pf ±.25	22-5961						
C216	.001	22-3561						

COILS (RF-IF)

ITEM No.	USE	MFR. PART No.	NOTES	ITEM No.	USE	MFR. PART No.	NOTES
L201	Antenna Filter Assembly	S-71599		L211	Ant., RF, Mixer, Oscillator	174-928	Channel 8 Strip
L202	Balun	S-71600		L212	Ant., RF, Mixer, Oscillator	174-929	Channel 9 Strip
L203	UHF IF Input Antenna	20-1548		L213	Ant., RF, Mixer, Oscillator	174-930	Channel 10 Strip
L204	Ant., RF, Mixer, Oscillator	174-922	Channel 2 Strip	L214	Ant., RF, Mixer, Oscillator	174-931	Channel 11 Strip
L205	Ant., RF, Mixer, Oscillator	174-923	Channel 3 Strip	L215	Ant., RF, Mixer, Oscillator	174-932	Channel 12 Strip
L206	Ant., RF, Mixer, Oscillator	174-924	Channel 4 Strip	L216	Ant., RF, Mixer, Oscillator	174-933	Channel 13 Strip
L207	Ant., RF, Mixer, Oscillator	174-925	Channel 5 Strip	L217	UHF IF Strip	174-921	Channel 1 Strip
L208	Ant., RF, Mixer, Oscillator	174-926	Channel 6 Strip	L219	Mixer Plate Coil	S-80628	
L209	Ant., RF, Mixer, Oscillator	174-927	Channel 7 Strip	L220	Oscillator Plate Coil	20-1684	

UHF TUNER PARTS LIST AND DESCRIPTION

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

TRANSISTORS

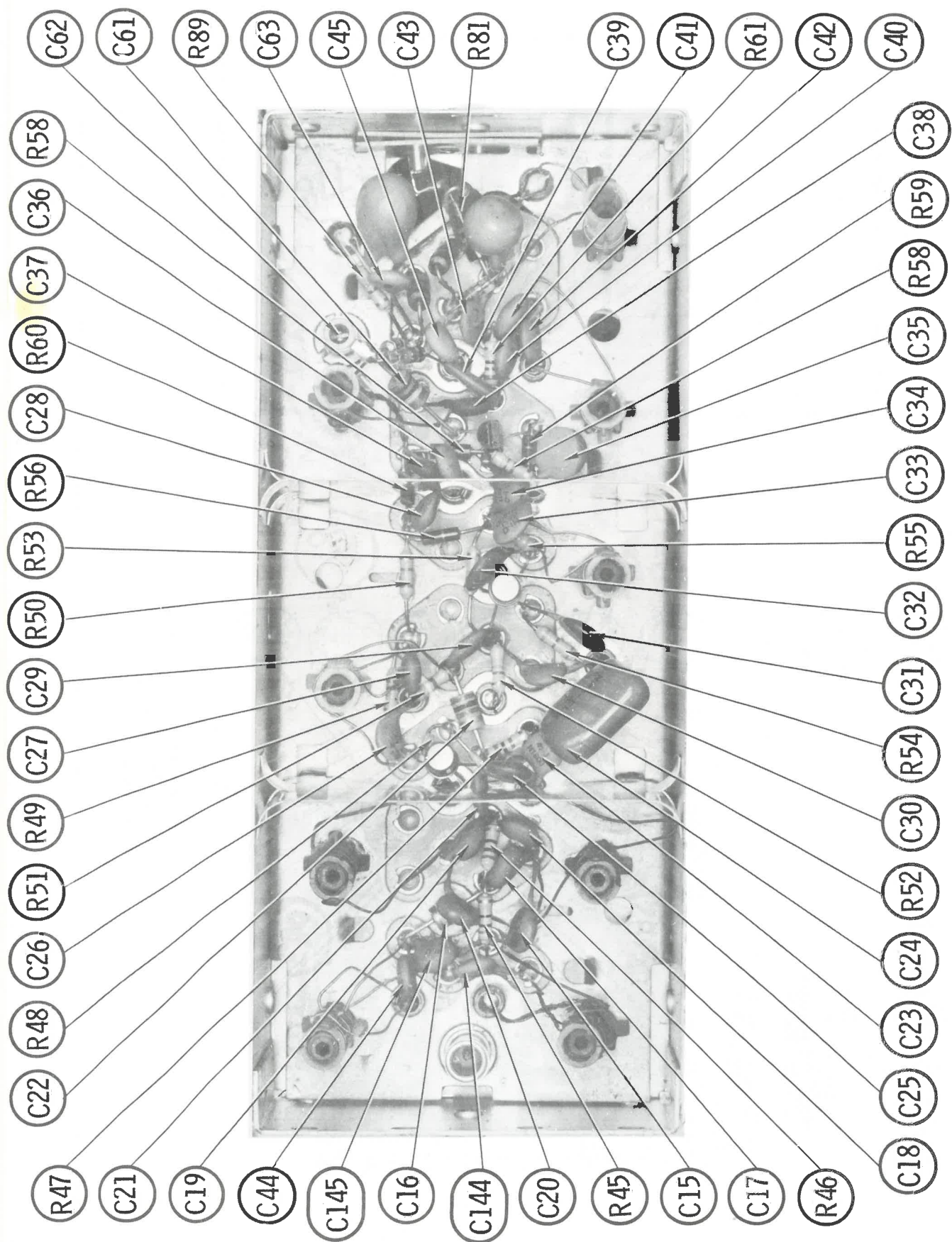
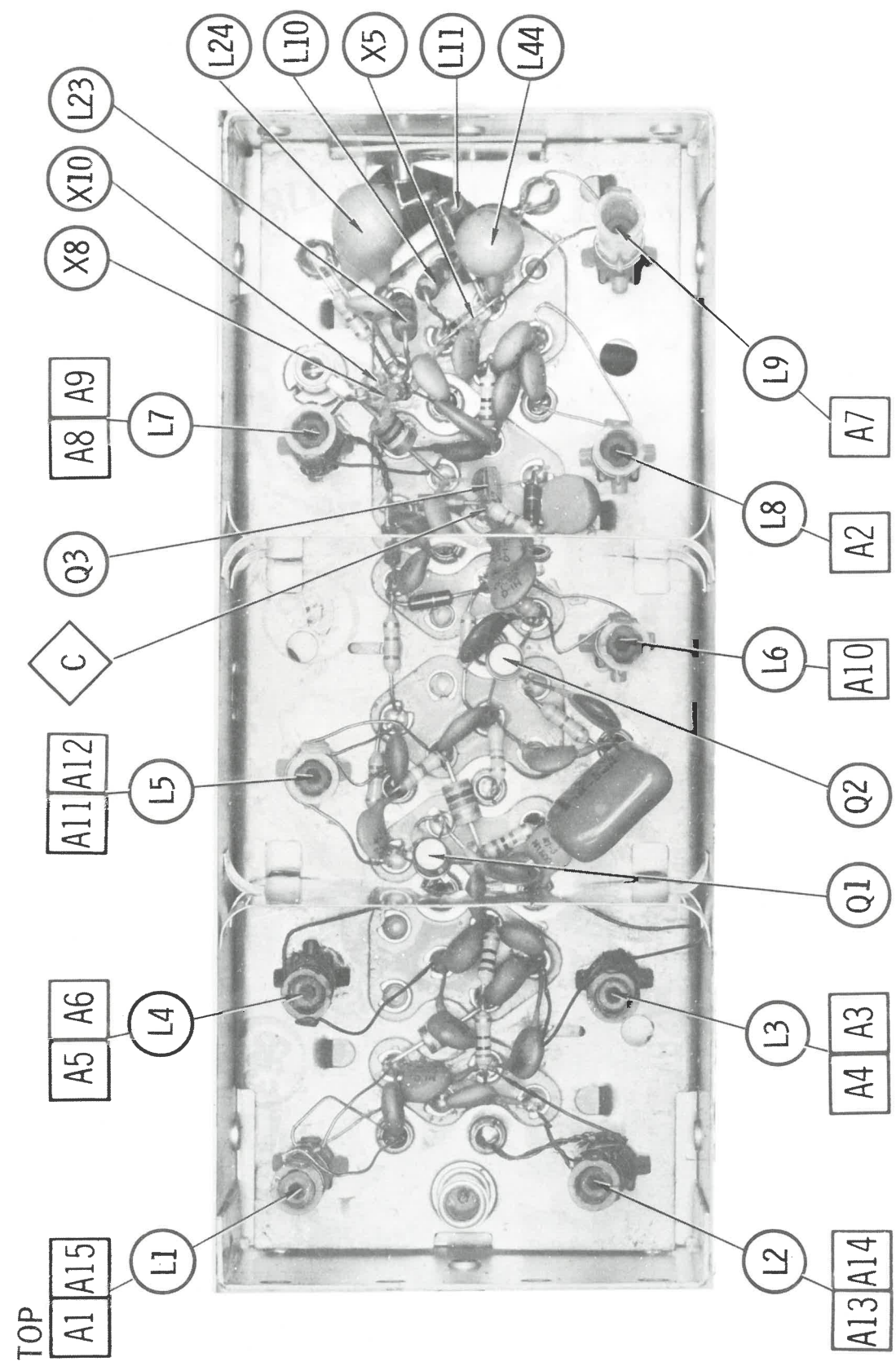
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			MFR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q301		UHF Oscillator	121-551	GE-11	TR-24	HEP56	SK3019	ECG 109

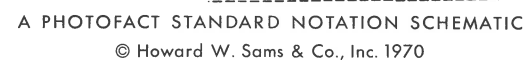
POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	
X301	103-65	1N82A	1N82AG	ECG 112		(1) Varactor
X302	103-104 (1)					

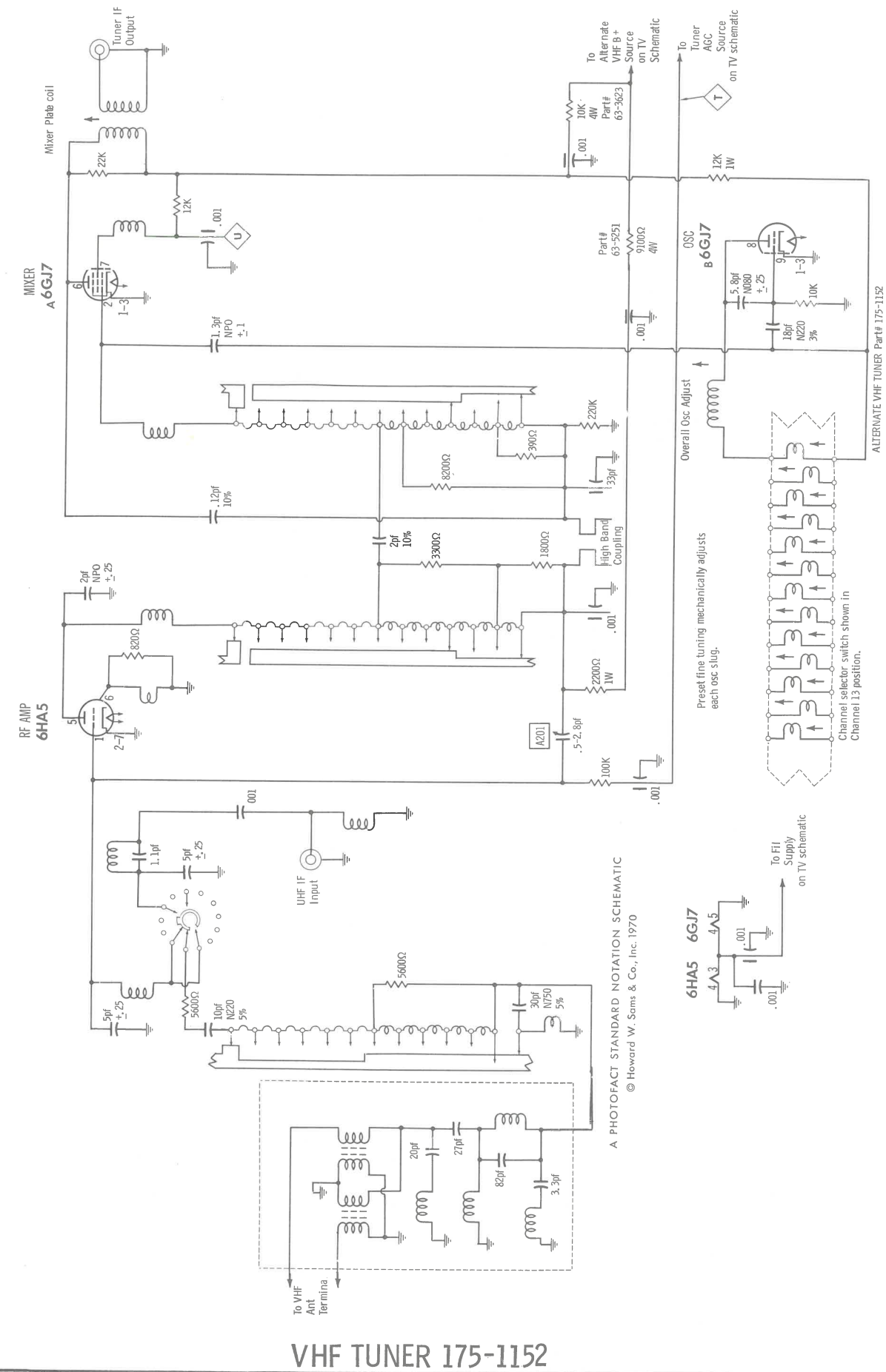
CAPACITORS

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	30	#22-5836						
C302	7.2 N220 5%	#22-5366						
C303	.001	#22-4651						
C304	470	#22-5062						
C305	3.5	#22-5367						
C306	470	#22-5062						
C307	470	#22-5062						



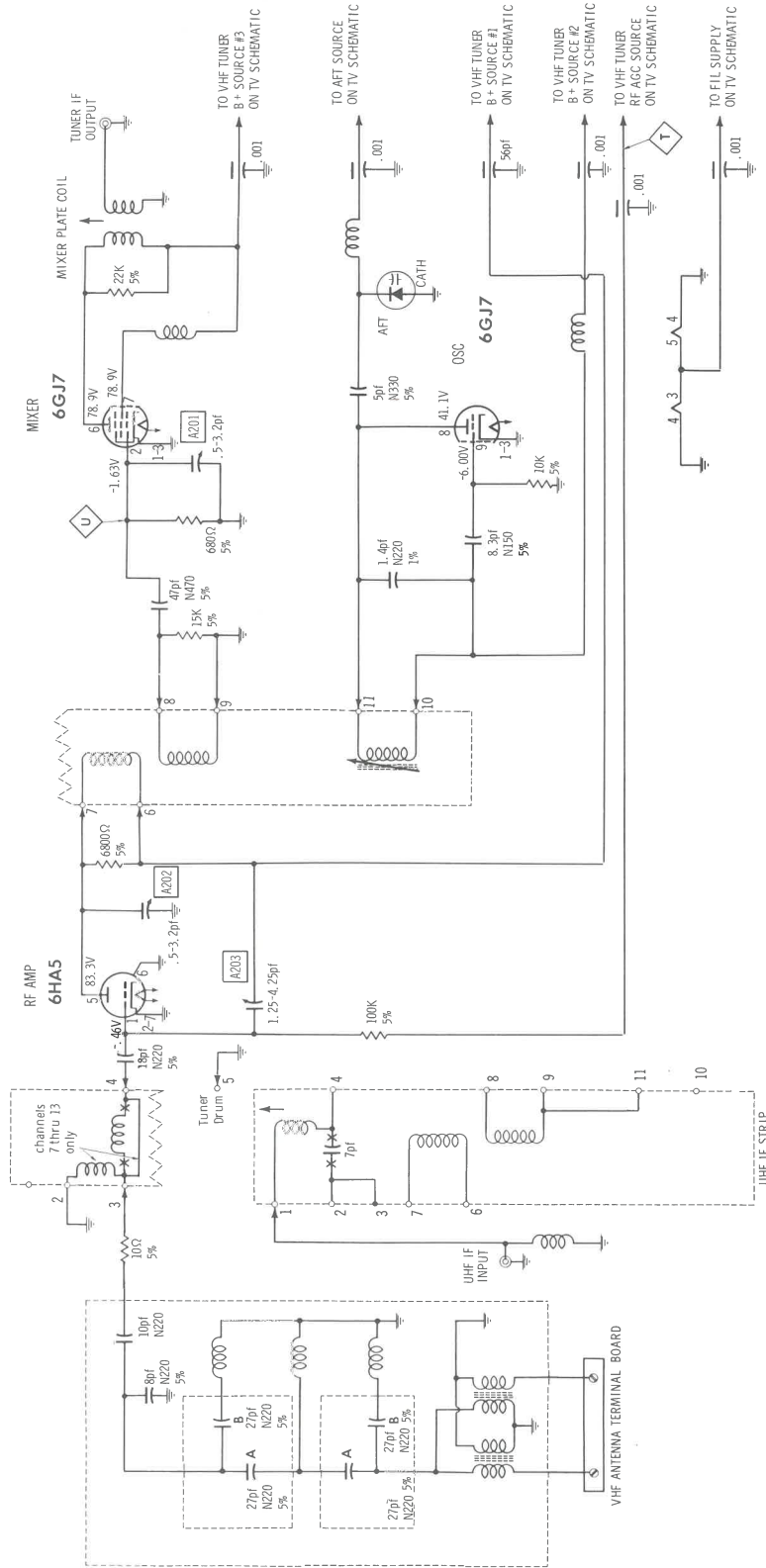
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UHF TUNER 175 - 74K



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FOLDER 3



VHF TUNER 175-I228

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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VHF TUNER PARTS LIST

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

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.
C201	15 5%	#22-5239	NPO-DI 15	DTZ-15	CZ601CG150J	CCTO-150	CNO415	10TCC-Q15
C202	.5-4.5							
C203	47 10%							
C204	.5-4.5							
C205	.001							
C206	.33pF 10%	#22-4903	NPO-DI 15	DTZ-15	CZ601CG150J	CCTO-150	CNO415	10TCC-Q15
C207	15 10%	#22-4860						
C208	.75pF 10%	#22-5239						
C209	.5-4.5	#22-3561						
C210	.001	#22-5239						
C211	.5-4.5	#22-5560	N220 ±.25			*	*	
C212	1.8	#22-3300						
C213	8.2	#22-3561						
C214	.001	#22-3561						
C215	.001	#22-3561						
C216	.001	#22-3561						

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

COILS (RF-IF)

ITEM No.	USE	MFGR. PART No.	NOTES	ITEM No.	USE	MFGR. PART No.	NOTES
L201	Antenna Balun	S-71600	Includes L201 & PC201, Loop in R201 lead	L210	Antenna, RF, Oscillator, Mixer	174-877	Channel 7 Strip
L202	Antenna Input Assembly	S-71599		L211	"	174-878	" 8 "
L203	RF Choke	20-1548		L212	"	174-879	" 9 "
L204	UHF IF Input			L213	"	174-880	" 10 "
L205	Antenna, RF, Oscillator, Mixer			L214	"	174-881	" 11 "
L206	"	174-872	Channel 2 Strip	L215	"	174-882	" 12 "
L207	"	174-873	" 3 "	L216	"	174-883	" 13 "
L208	"	174-874	" 4 "	L217	UHF Strip	174-585	
L209	"	174-875	" 5 "	L218	RF Choke	20-1610	
		174-876	" 6 "	L219	Mixer Plate Coil	S-80628	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
PC201	Antenna Isolation Turret Drum Ass'y	13P-011-008	
	Fine Tuning Shaft	S-80751	
	Fine Tuning Gear Assembly	76-1586	
	Fine Tuning Drive Gear	S-71637	
	Fine Tuning Disengage Spring	34-469	
	Fine Tuning Clutch	80-1882	
	Fine Tuning Clutch Bushing	80-1881	
	Detent Spring	94-1392	
	Detent Bearing	80-1880	
		184-24	

TRANSISTORS UHF TUNER PARTS LIST AND DESCRIPTION UHF TUNER 175-65H/K/U

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q301		UHF Oscillator	(1)	GE-11	TR-22	HEP56	SK3019	ECG 108

(1) Part #121-551 used in UHF Tuner 175-65K, Part #121-630 used in UHF Tuner 175-65H.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	
X301	103-61	1N82A	1N82AG	ECG 112		

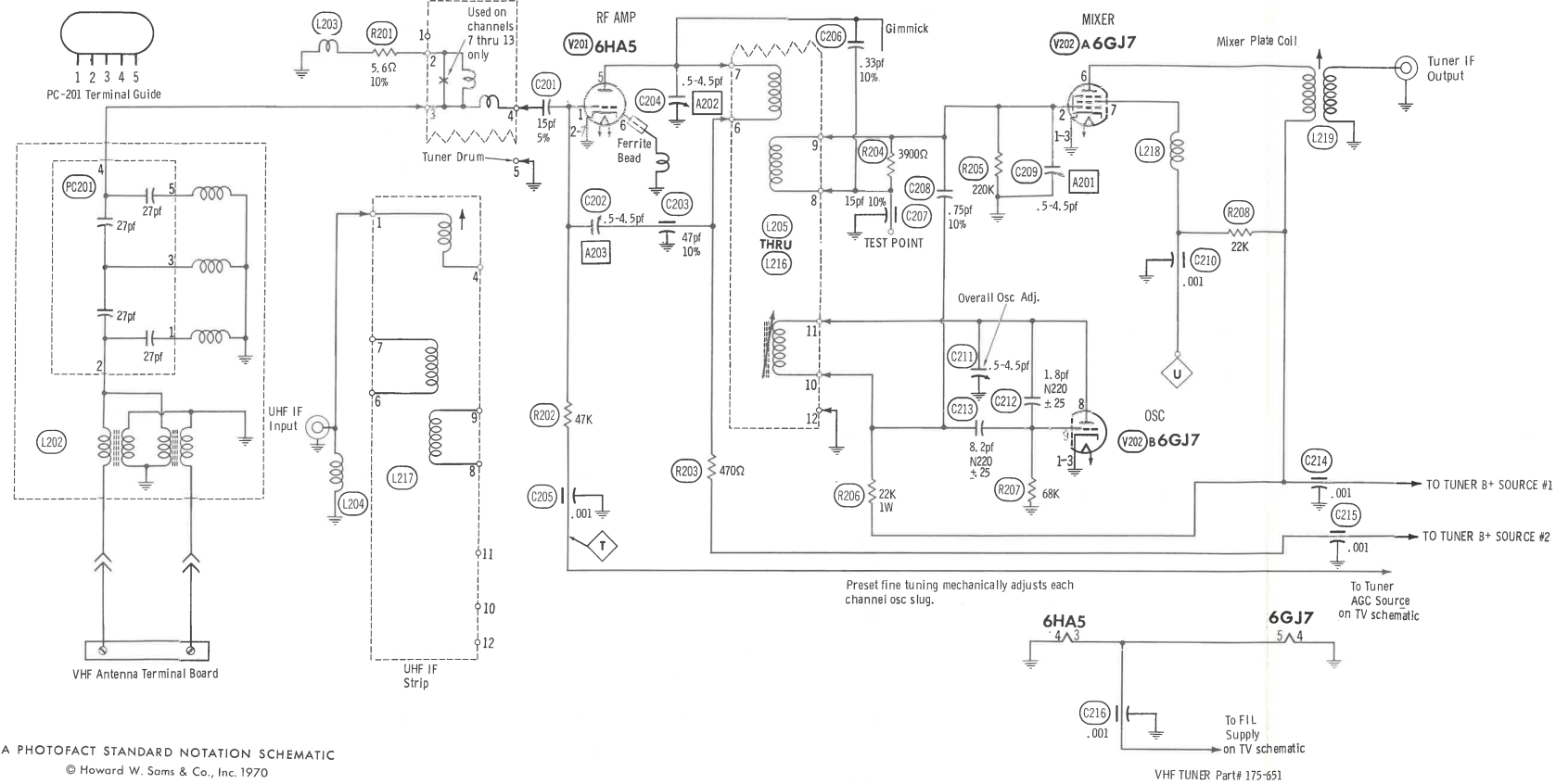
CAPACITORS

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 N1500 10%	#22-5060						
C302	10 N220	#22-5005						
C303	.001	#22-4651						
C304	470	#22-5062						

ZENITH PART NUMBER.

ZENITH CHASSIS
14A9C29, 14A10C29

FOLDER 3



A PHOTOFACT STANDARD NOTATION SCHEMATIC
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VHF TUNER ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: GENERAL CEMENT WALSCO
A201, A202, A203, Overall Osc. Adj. 8868, 8987, 9089 ... 2531X, 2541, 2587
Mixer Plate Coil 9296, 9297, 9300 ... 2510, 2546, 2547

OSCILLATOR ADJUSTMENTS

The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound. If necessary, adjust the overall oscillator adjustment. Recheck.

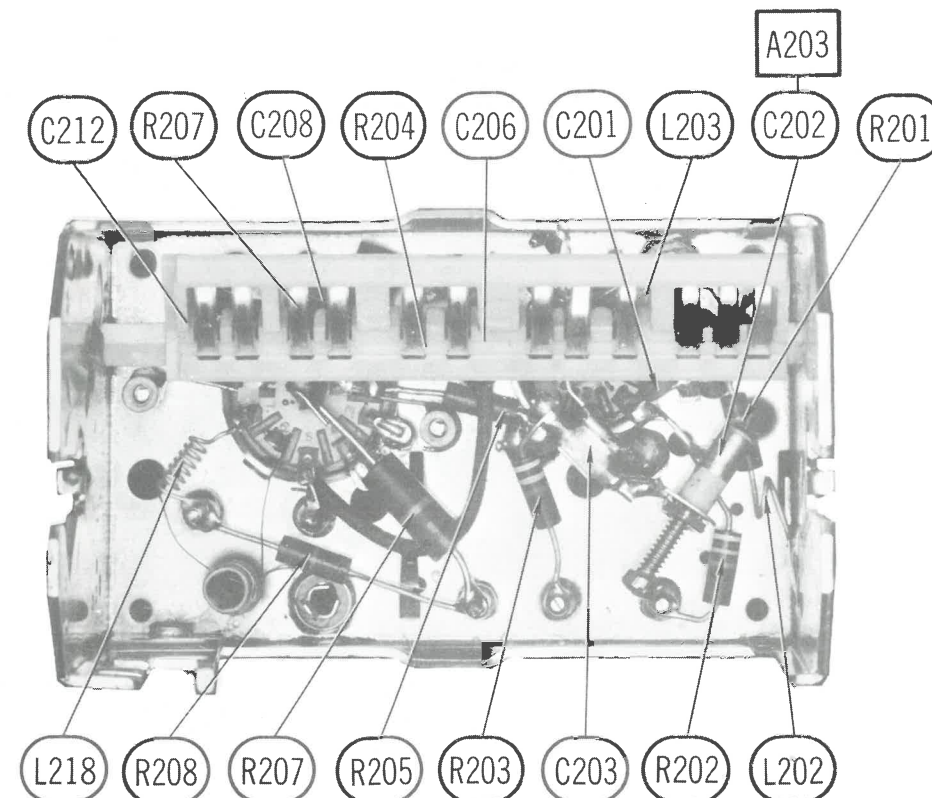
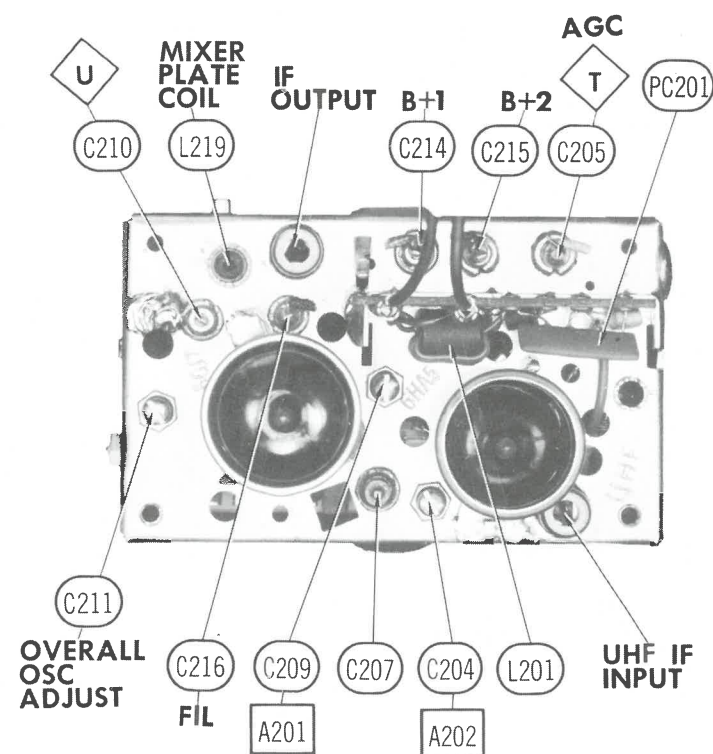
RF AND MIXER ADJUSTMENTS

Connect the sweep generator across antenna terminals with 120-ohm carbon resistor in each lead. Refer to chart below for generator frequencies. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the scope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect a variable bias to RF AGC line at Point U. Adjust bias to obtain response curve which shows no overloading.

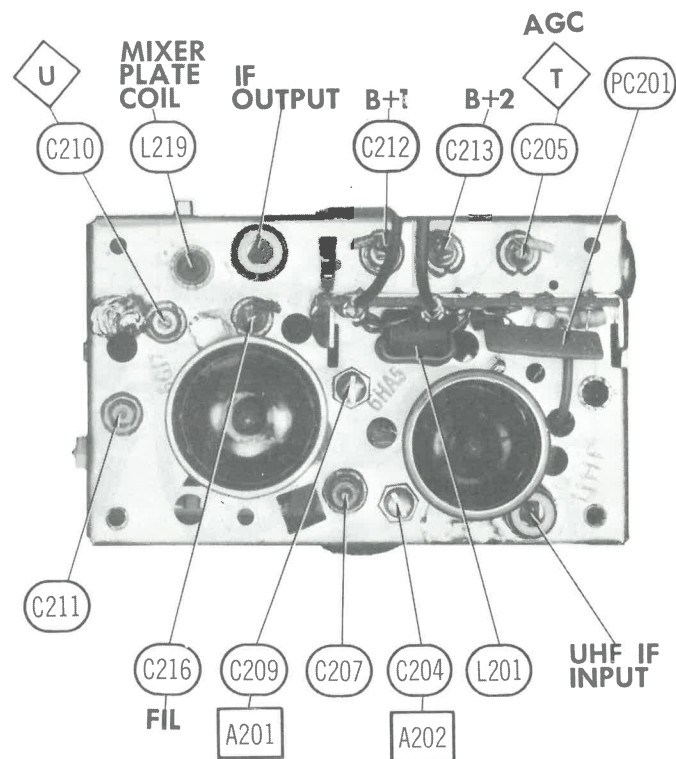
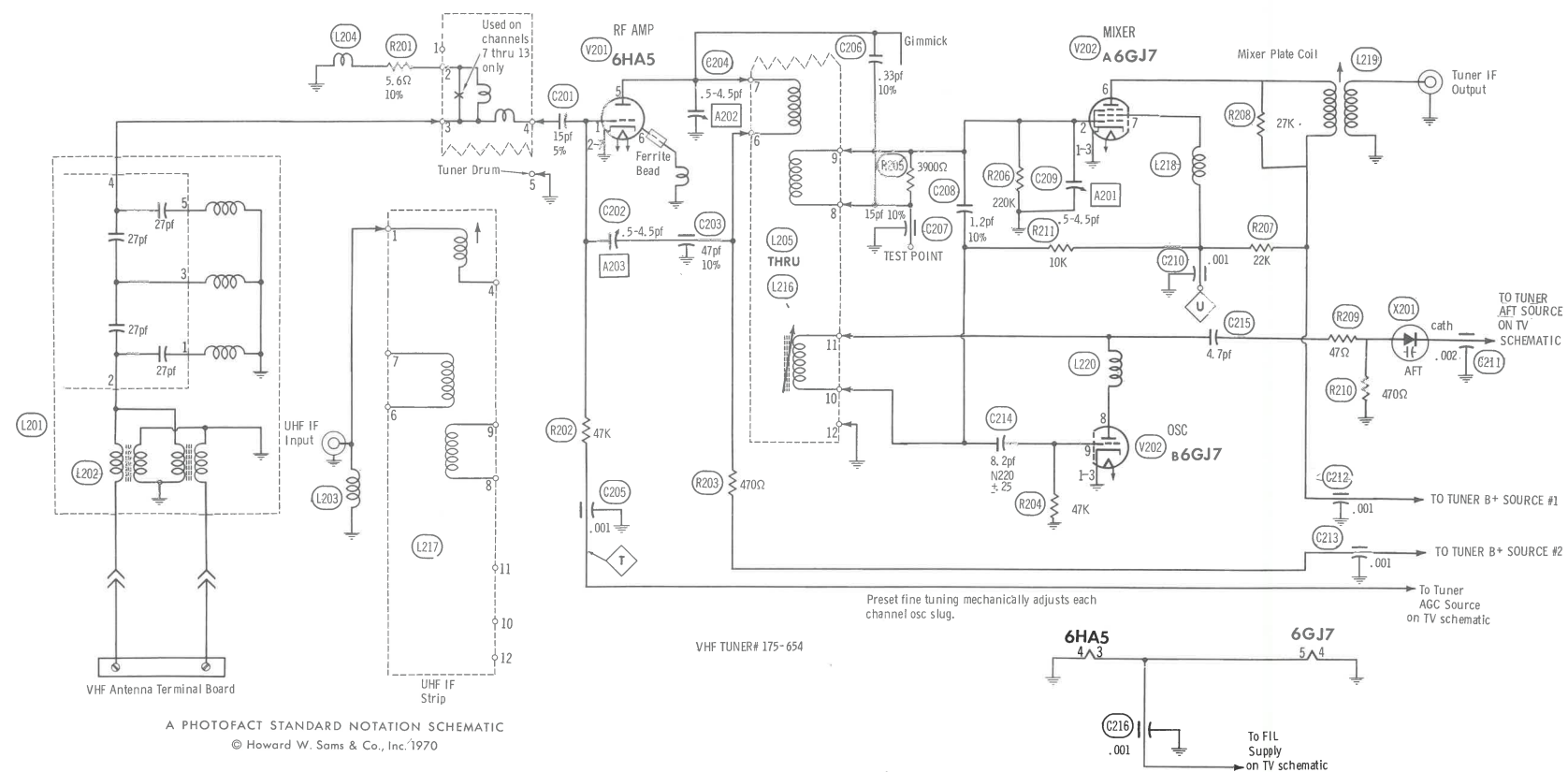
CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point U, low side to ground.	Adjust A201 and A202 for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
10	Across video detector load resistor.	Increase bias to -20 volts and adjust A203 for MINIMUM amplitude of response.
12 thru 2	Vertical input to Point U, low side to ground.	Decrease bias. Check all channels and make compromise adjustments by expanding or compressing appropriate coils.

GENERATOR FREQUENCY					
Numbers in () indicate channel number					
SWEEP	MARKER	SWEEP	MARKER	SWEEP	MARKER
(2) 57MC	55.25MC	(6) 85MC	83.25MC	(10) 195MC	193.25MC
	59.75MC		87.75MC		197.75MC
(3) 63MC	61.25MC	(7) 177MC	175.25MC	(11) 201MC	199.25MC
	65.75MC		179.75MC		203.75MC
(4) 69MC	67.25MC	(8) 183MC	181.25MC	(12) 207MC	205.25MC
	71.75MC		185.75MC		209.75MC
(5) 79MC	77.25MC	(9) 189MC	187.25MC	(13) 213MC	211.25MC
	81.75MC		191.75MC		215.75MC

FIG. 201



VHF TUNER 175-651



VHF TUNER 175-654

VHF TUNER ALIGNMENT INSTRUCTIONS

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

OSCILLATOR ADJUSTMENTS

The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound.

RF AND MIXER ADJUSTMENTS

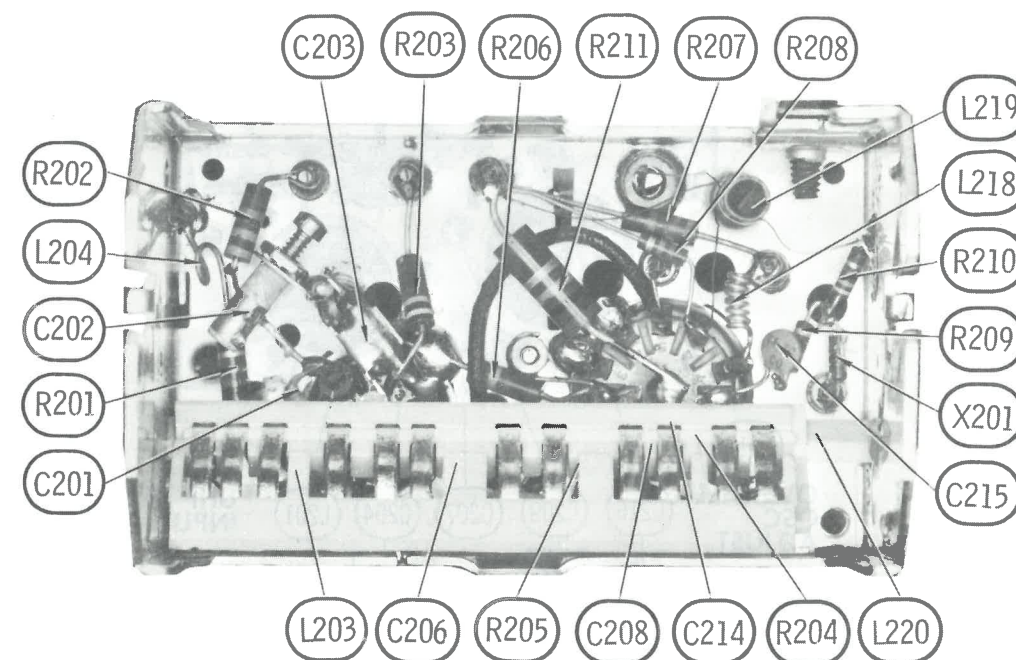
Connect the sweep generator across antenna terminals with 120-ohm carbon resistor in each lead. Refer to chart below for generator frequencies. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the scope for horizontal deflection. Connect a variable bias to the RF AGC line at Point \diamond . Adjust bias to obtain response curve which shows no indication of overloading.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point \diamond , low side to ground.	Adjust A201 and A202 for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
10	Across video detector load resistor.	Increase bias to -20 volts and adjust for MINIMUM amplitude or response (A203).
12 thru 2	Vertical input to Point \diamond , low side to ground.	Decrease bias. Check response on all channels and make compromise adjustments of A201 and A202 if necessary.

GENERATOR FREQUENCY Numbers in () indicate channel number					
SWEEP	MARKER	SWEEP	MARKER	SWEEP	MARKER
(2) 57MC	55.25MC	(6) 85MC	83.25MC	(10) 195MC	193.25MC
	59.75MC		87.75MC		197.75MC
(3) 63MC	61.25MC	(7) 177MC	175.25MC	(11) 201MC	199.25MC
	65.75MC		179.75MC		203.75MC
(4) 69MC	67.25MC	(8) 183MC	181.25MC	(12) 207MC	205.25MC
	71.75MC		185.75MC		209.75MC
(5) 79MC	77.25MC	(9) 189MC	187.25MC	(13) 213MC	211.25MC
	81.75MC		191.75MC		215.75MC

FIG. 201

SOUND VIDEO



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.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M6 M7 M8 M9 M10 M11 PC1 S1 S2 S5	VHF Antenna	1-116	JFD Replacement TA-510, (2 Used), Models: A3906J5, J6; A3914P5, P6, W5, W6; A5922W5; T2932W5,W6. JFD Replacement TA-544
	UHF Antenna	S-59774	
	VHF Tuner	175-651	
	VHF Tuner	175-654	
	VHF Tuner	175-1152	
	VHF Tuner	175-1167	
	VHF Tuner	175-1228	
	UHF Tuner	175-64K	
	UHF Tuner	175-65H,K	
	UHF Tuner	175-74K	
	Crystal	103-89	3.58MC
	Spark Gap	52-957	
	Spark Gap	52-957	
	Spark Gap	52-957	
	Delay Line	S-80475	
	Degaussing Coil		
	Vertical Integrator	87-4	
	Switch	85-994	
	Switch		
	Switch	85-1030	
	Magnet	S-71500	Centralab Replacement PC408, Sprague V-14 Service - Normal AFT Defeat UHF B+ Blue Lateral Assembly only. Blue Lateral & Purity Assembly. Purity Ring Assembly only.
	Magnet	S-76297 or S-79294	
	Magnet	S-72221	
	Magnet		

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	PART No.	ITEM	PART No.
Model A3914W5/6		Model A5922W5	
Cabinet	14-8749	Cabinet	14-8749
Cabinet Back	2-2963	Cabinet Back	2-2966
Knob, AFC	46-5325	Knob, AFC	46-6882
Knob, Bright, Cont. Tone, Vertical	46-6026	Knob, Bright, Cont., Tone, Vertical	46-6026
Knob, Color Level, Hue, Volume	46-6701	Knob, Volume	S-56479
Knob, Focus	S-84082	Knob, Color Level, Hue	46-6752
Knob, Horiz. Hold	46-6027	Knob, Focus	S-84082
Knob, UHF Dial	46-7051	Knob, Horizontal Hold	46-6027
Knob, UHF Tuning	46-5322	Knob, UHF Dial	46-6759
Knob, VHF Channel Selector	46-7632	Knob, UHF Tuning	46-6760
Knob, VHF Fine Tuning	46-7692	Knob, VHF Channel Selector	S-53116
		Knob, VHF Fine Tuning	S-56888
		Knob, On-Off	46-6689
Model T2932W5/6		Model T2932W5/6 - (CONT.)	
Cabinet	14-8749	Knob, Horizontal Hold	46-6027
Cabinet Back	2-2963	Knob, UHF Dial	46-6700
Knob, AFC	46-5325	Knob, UHF Tuning	46-5322
Knob, Bright, Cont., Tone, Vertical	46-6026	Knob, VHF Channel Selector	46-7633
Knob, Color Level, Hue, Volume	46-6701	Knob, VHF Fine Tuning	46-7692
Knob, Focus	S-84082		

WIRING DATA

High Voltage Lead	Use BELDEN No. 8868 (25KV)
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor)
	8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
	8524 (Stranded) Available in 12 Colors
300-Ohm Tuner Input Lead	Use BELDEN No. 8225
300-Ohm Antenna Lead-in	Use BELDEN No. 8275 (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

AMPEREX			GENERAL ELECTRIC		RCA		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE			
V1	Video Cathode Follower-1st Chroma Bandpass Amp.	6KT8	V8	Horiz. AFC-Horiz. Oscillator	6U10			
V2	Video Output	12HL7	V9	Horiz. Discharge	6LB6			
V3	Sound-Sync Amp.-Sound IF Amp.	6KT8	V10	Horiz. Output	6CJ3			
V4	Audio Detector-Audio Output	6Z10	V11	Damper	3DJ3 (3DC3,3DB3)*			
V5	AGC Keying-Noise Canceller-Sync Separator-Vert. Mult.	6BA11	V12	HV Rectifier	6HV5			
V6	Vert. Mult.-Vert. Output	6HE5 (6JB5)	V13	HV Regulator	6MN8			
			V15	G-Y Amp. - B-Y Amp. - R-Y Amp	6EJ7 (EF184)*			
			V16	Burst Amp.				
				3.58MC Osc. Control-3.58MC Oscillator	66H8A			

* Alternate

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V17	19HCP22	19HCP22	H-19HCP22/19HKP22 (1) C-19HCP22/19HKP22 (2)	RE-19HCP22 (3) SRE-19HCP22 (3) 19HCP22 (3)	(1) Hi-Lite (2) Colorama (3) Color Bright "85"

INTEGRATED CIRCUITS

ITEM No.	FUNCTION	MFGR. PART No.	REMARKS
IC1	Color Demodulator	221-37 (221-39)	SYLVANIA REPLACEMENT ECG 705

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q1		1st Video IF	121-501 (1)					
Q2		2nd Video IF	121-502 (2)					
Q3		3rd Video IF	121-522 (3)					
Q4		AFT Amp	121-546 (4)					
Q5		Video Amp	121-587	GE-20	TR-21	HEP738	SK3018	ECG 108
Q6		IF AGC Amp	121-499	GE-17	TR-25	HEP55	SK3018	ECG 128
Q7		Blanking Amp	121-699	GE-20	TR-21	HEP737	SK3020	ECG 123A
Q8		2nd Chroma Bandpass	121-748	GE-17	TR-25	HEP715		ECG 128
Q9		Vert. Blanking	121-587	GE-17	TR-25	HEP715		ECG 123A
Q10		Pincushion Amp	121-722			HEP55		ECG 128
						HEP736		ECG 123A

(1) Alternate Part #121-500 or 121-505. (3) Alternate Part #121-521.
(2) Alternate Part #121-470 or 121-506. (4) Alternate Part #121-547.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	
X1	212-76 (212-37)	GE-504A	8D6 or 18DB8A (2)	ECG 116 or ECG 117	SK3017A or SK3032	(1) Matched Pair (2) A single-unit replacement for all four bridge-circuit rectifiers. (3) 4 Required.
X2	212-76 (212-37)	GE-504A	8D6 or 18DB8A (2)	ECG 116 or ECG 117	SK3017A or SK3032	
X3	212-76 (212-37)	GE-504A	8D6 or 18DB8A (2)	ECG 116 or ECG 117	SK3017A or SK3032	
X4	212-76 (212-37)	GE-504A	8D6 or 18DB8A (2)	ECG 116 or ECG 117	SK3017A or SK3032	
X5	103-23	1N60	1N60	ECG 109		
X6	103-90 (1)		1N542 (1)	ECG 110 (1)		
X7	103-90 (1)					
X8	103-23	1N60	1N60	ECG 109		
X9	103-51	GE-504A	8D4	ECG 116		
X10	103-23	1N60	1N60	ECG 109		
X11	212-85	GE-1	61-8969	ECG 118		
X12	212-68	GE-2	61-8968	ECG 119		
X13	103-131 (1)		1N542 (1)	ECG 110 (1)		
X14	103-131 (1)					
X15	103-142	GE-504A	8D4	ECG 116		
X16	103-131 (1)		1N542 (1)	ECG 110 (1)		
X17	103-131 (1)					
X18	103-159	1N34AS	1N34A	ECG 109		
X19	212-72	GE-504A (3)	8D4 (3)	ECG 116 (3)		
X20	212-71	GE-504A	8D4 or 5A4-4	ECG 116 or ECG 117	SK3030 or SK3031	
X21	103-142	GE-504A	8D4	ECG 116		
X22	103-142	GE-504A	8D4	ECG 116		
X23	103-142	GE-504A	8D4	ECG 116		
X24	103-142	GE-504A	8D4	ECG 116		
X25	103-142	GE-504A	8D4	ECG 116		
X26	212-71	GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117		
X27	103-142	GE-504A	8D4	ECG 116		
X28	212-71	GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117		

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.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	80 475V	22-5359	AFH3-50-20		DD0185A			TVL-3875
B	10 475V	(22-5513) (1)						
C	18 475V							
C2A	80 475V	22-5360	AFH4-19-75		DD0187A & WBR30-500	XC4-6.2	FP385.5A	TVL-4845
B	30 475V							
C	4 475V							
D	4 475V							
C4	200 25V	22-5175	PRS1280	EA30-250	WBR300-35	MT1-23.5	MTA200F25	TE-1213
C5	40 25V	22-4870	PTT84	EA30-50	WBR60-50	MT1-17	MTA40F50	TL-1208
C6	10 475V	22-4818	PRS1810		WBR10-500	QT1-6.1	TC81A	TVA-1802
C7	100 50V	22-5262	PRS1360	EA50-100	WBR125-50	QT1-23	TC3501A	TL-1309
C8	40 400V	22-5407	PRS1750		WBR40-500	QT1-14.1	TC78A	TVA-1712
C9	4 150V	22-5425	CRE953A		AL5-150	MT1-4	TC40A	TE-1503
C10	1 NP 25V	22-4909	PRS7525		BRNP1-50	NPQT-1	TCN501	TVAN-1202
C11	3 NP 75V	22-6009						
C12	200 35V	22-5677	PRS1380	EA50-250	WBR250-50	QT1-31	TC50025A	TL-1312
C13	500 35V	22-3767	PRS1390	EA50-500	WBR500-50	QT1-31	TC50050A	TVA-1315
C14	12 475V	22-5809	PRS1850		WBR10-500			TVA-1904

(1) Alternate - used in some versions.

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.
C15	6	#22-5525						
C16	4.25 N75	#22-5389						
C17	4.25 N75	#22-5389						
C18	5 NPO		NPO-DI 5.0		NP05			10TCC-V50
C19	5 NPO		NPO-DI 5.0		NP05			10TCC-V50
C20	.15		DBE6P15		DPMS6P15	6DP-5-154	PVC6015	6PS-P15
C21	.001	#22-4718						
C22	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C23	.001	#22-4718						
C24	47	#22-4738						
C25	.002	#22-4729						
C26	.001	#22-4718						
C27	15	#22-4735						
C28	26 N075	5%					*	
C29	47	#22-4738						
C30	75	#22-5526						
C31	.022	#22-4729						
C32	20	#22-4737						
C33	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C34	.002	#22-4729						
C35	.001	#22-4718						
C36	.001	#22-4718						
C37	1		NPO-DI 1.0	TCZ-1			CN0510	10TCC-V10
C38	50 NPO	5%	NPO-DI 50	DTZ-50	NP050	CCT0-510	CN0450	10TCC-Q50
C39	100	#22-4740						
C40	4.25 N75	#22-5389						
C41	5.5 NPO	5%						
C42	16 NPO	5%	NPO-DI 15	DTZ-15	NP015	CCT0-150	CN0415	10TCC-V56
C43	6	#22-5525						10TCC-Q15
C44	4.25 N75	#22-5389						
C45	2	#22-4731						
C46	75 NPO	5%	NPO-DI 75	DTZ-75		CCT0-750	CN0475	10TCC-Q75
C47	12 N1500	10%				*		10TCW-Q12
C49	68 N75	10%					*	
C50	180	10%	GPD X5F181K	DD-181	JBZ601YP181K	CCD-181	GP318	10TS-T18
C51	.1 200V		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C52	.001	#22-4728						
C53	8.2 NPO	+ .5	NPO-DI 8.2		NP08P2			10TCC-V82
C54	220	#22-4744						
C55	.002	#22-4729						
C56	.001	#22-4728						
C57	.001	#22-4728						
C58	10	+ .5	GPD COH100K	DD-100	NP010	CCD-100	GP410	10TS-Q10
C59	10	+ .5	GPD COH100K	DD-100	NP010	CCD-100	GP410	10TS-Q10
C60	.001	#22-4728						
C61	3.6	5%						
C62	1-9	#22-5/84						
C63	4	#22-5476						
C64	820 1KV	10%	GPD X5F821K	DD-821	GP820	CCD-821	GP382	10TS-T82
C65	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C66	47 N075	5%					*	
C67	4.3 NPO	+ .25						
C68	50 N750							
C69	180		N750-DI 47	TCN-50	CY601UJ470K	CCTN-470	CN7447	10TCU-Q47
C70	.001 1KV	10%	ADM-15-181	CPR-180J	CD15F181J500	DM-15-181K	SK318	24ME1800J501
C71	100	5%	GPD X5F102K	DD-102	JBZ601YP102K	CCD-102	GP210	10TS-D10
C72	2.4	5%		DTZ-100			CN0310	10TCC-T10
C73	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C74	20 N330	10%		TCA-22		*	*	10TCS-Q22
C75	470 N1500	10%						10TCW-T47
C76	220 1KV	10%	GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C77	150 N750		N750-DI 150	DTN-150		CCTN-151	CN7315	10TCU-T15
C78	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C79	.0047		GPD X5R472K	DD-472G	JBZ601YP472K	CCD-472	JF247	10TS-D47
C80	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C81	.0033 1KV		GPD X5R332K	DD-332	GP3300	CCD-332	JF233	10TS-D33
C82	.15 100V		V1612P15		DMF1P15	1DP-3-154	PVC1015	2PS-P15

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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Have your local distributor check Sams COUNTER FACTS[®] for the most up-to-date replacement.

TRANSFORMER (Power)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ 3A AC	340V AC @ .465A DC	6.3V AC @ .9A AC	95-2748					
	SEC. 3		SEC. 4						
	24VAC @ .095A DC Tap @ 6.3VAC @ 5A AC Tap @ 6.3V AC @ 3.9A AC		12.6V AC @ 1.8A AC						

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	5,120	3.2	95-2660-BC (95-2660)	A-2930	A-3877	24S51	S-3X	Alternate Part No.

TRANSFORMERS (Sweep Circuits)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		MFR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	Yoke (Horiz. 11mh)	95-2667					
T4	900 (Vert. 19.5mh)			V0-714C			
T5	Vert. Output Horiz. Output	95-2663 S-84979					

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	3" x 5" PM 3.2 ohms	49-1131	35A05	

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA					
		PART No.		BUSS PART No.		LITTELFUSE PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	WORKMAN PART No.
F1	Fuse, Be1-fuse, 1.2 Amp	136-63					
F2	Wire, 2 1/2" length #24	91-2061					
F3	Wire, 2 1/2" length #24	91-2061					
F4	Wire, 2 1/2" length #24	91-2061					
F5	Wire, 2 1/2" length #24	91-2061					
F6	Fuse, Be1-fuse, .35 Amp.	136-75	62-64				

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1A	IF Input Coil	20-1658		6227	
B	39.75MC Trap				
L2	1st Video IF	20-1660			
L3	41.25MC Trap	20-1659			
L4	47.25MC Trap	20-1659			
L5	2nd Video IF	20-1661			
L6	3rd Video IF	20-1657			
L7	4th Video IF	20-1662			
L8	41.25MC Trap	20-1657			
L9	Video Output IF	20-1657			
L10	RF Choke (27uh)	20-2712	19-6033	72F275AP	T360
L11	RF Choke (27uh)	20-2712	19-6033	72F275AP	T360
L12	RF Choke (27uh)	20-2707	19-6033	72F275AP	T360
L13	4.5MC Trap	S-77669			
L14	RF Choke (27uh)	20-2712	19-6033	72F275AP	T360
L15	Peaking (320uh)	20-2520 (1)	19-3375 (5)	6134 (5)	T321 (5)
L16	RF Choke (27uh)	20-2007	19-6033	72F275AP	T316
L17	Peaking (201uh)	20-2022	4201	72F224AP	
L18	Peaking (220uh)	20-2540 (2)	19-2027 (6)	72F224AP (6)	T312 (6)
L19	Peaking (250uh)	20-2012	19-3250	6181	T315
L20	AFT Input IF	20-3219		4202 (11)	
L21	AFT Discriminator	S-84160			
L22	RF Choke (8.5uh)	(3)			
L23	RF Choke (27uh)	20-2712	19-6033	72F275AP	T360
L24	Trap	20-1726	19-6033	72F275AP	T360
L25	Sound Take-Off	S-77414			
L26	Sound Interstage IF	S-74445			
L27	Quadrature	S-80480			
L28	RF Choke (10uh)	20-2005	20-1005	72F105AP	T6268
L29	RF Choke (10uh)	20-2005	19-1005	72F105AP	T860
L30	RF Choke (29uh)	20-2502 (3)		72F275AP (7)	T972 (7)
L31	Peaking (71uh)	20-2533 (4)		6172 (8)	T303 (8)
L32	1st Chroma Bandpass	S-77408			
L33	RF Choke (20uh)	20-2041	19-6022	6152	T300
L34	2nd Chroma Bandpass	S-83210			
L35	Burst	S-80590			
L36	Peaking (86uh)	20-2002		72F825AP	
L37	3.58MC Adjust	S-66627	19-6821	4207	
L38	3.58MC Output	S-77411			
L39	RF Choke (27uh)	20-2007	19-6033	72F275AP	T316
L40	RF Choke (3uh)	20-2056		74F336AP	T816
L41	RF Choke (1.8uh)	20-2052		74F186AP	T811
L42	Peaking (11.3uh)	20-2053		72F125AP	
L44	Trap	20-1726			
L45	Peaking (155uh)	20-2536 (9)		6120 (10)	T308 (10)
L46	Peaking (155uh)	20-2536 (9)		6120 (10)	T308 (10)
L47	Peaking (155uh)	20-2536 (9)		6120 (10)	T308 (10)
L48	RF Choke (10uh)	20-2033	19-2017	74F105AP	T823
L49	RF Choke (10uh)	20-2033	19-2017	74F105AP	T823

- (1) Includes 6800 ohms resistor.
(2) Includes 12K resistor.
(3) Includes 18K resistor.
(4) Includes 27K resistor.
(5) Shunt with 6800 ohms resistor.

- (6) Shunt with 12K resistor.
(7) Shunt with 18K resistor.
(8) Shunt with 27K resistor.
(9) Includes 2700 ohms resistor.
(10) Shunt with 2700 ohms resistor.
(11) Enlarge Mounting Hole.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (O CURRENT 1000~)	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L60	.095A DC	40	.51 H	95-2749	C-4125 (1)	C-2328	20C126 (1)	C-27X (1)	(1) Drill new mounting hole(s).
L61	.465A DC	16	.44 H	95-2702	C-4133	C-2708	26C81	C-40X	

COILS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA						
		MFGR. PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.	WORKMAN PART No.
L51	Horiz. Osc. (Hold)	S-56877		H-161		HS-24		
L52	Horiz. Efficiency	S-77975	MWC-6	6322	WC-8A	WC-28 (1)	WLC-5	T107
L53	Pincushion	S-79692						
L54	Right R/G Vert. Lines	S-73854	MWC-6	6322	WC-8A	WC-28 (1)	WLC-5	T107
	Alternate	S-58038						
L55	Right R/G Horiz. Lines	S-58041		H-162		WC-51		
	Alternate	S-84384						
L56	Right Blue Horiz. Lines	S-73854	MWC-6	6322	WC-8A	WC-28 (1)	WLC-5	T107
	Alternate	S-58038						
L57	Convergence Yoke Assembly	S-80460						
A	Blue Coil	S-80511						
B	Green Coil	S-80510						
C	Red Coil	S-80512						

(1) Disregard Tap.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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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.
C83	220	1KV	10%	GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TSOT22
C84	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C85	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C86	20	NPO	10%	NPO-DI 20	DTZ-20		CCTO-200	CNO420	10TCC-Q20
C87	.1	400V		DBE4P1		DMF4P1	4DP-3-104	PVC401	4PS-P10
C88	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C89A	.0022			GPD X5F222K	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
B	.0022			GPD X5F222K	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C90	.0068	600V	10%	DBE6D68		DMF6D68	6DP-1-682	PVC6268	6PS-D68
C91	.75			NPO-DI 75	DTZ-75		CCTO-750	CNO475	10TCC-Q75
C92	.001			GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C93	.0022			GPD X5F222K	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C94	.033	200V	10%	VI612S33		DMF2S33	4DP-2-333	PVC2133	4PS-S33
C95	.1	600V	10%	DBE6P1		DMF6P1	6DP-4-104	PVC601	6PS-P10
C96	.01	600V	10%	DBE6S1		DMF6S1	6DP-2-103	PVC611	6PS-S10
C97	.47	200V		DBE2P47		DMF2P47	2DP-5-474	PVC2047	2PS-P47
C98	820	1KV	10%	GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C99	.1	200V	10%	DBE2P1		DPMS2P1	2DP-3-104	PVC201	2PS-P10
C100	820	1KV	10%	GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C101	100 N1500	4KV	10%						
C102	85								
C103	.0018			DBE6D18	CPR-1800J	PKM6218		6PS-D18	
C104	680		10%	ADM-20-681	CPR-680J	CD19F681J500	DM-16-681J	SX368	424ME6800J501
C105	.0015	400V	10%	VI614D15	CPR-1500J	WMF4D15	6DP-1-152	PVC6215	6PS-D15
C106	.0011	400V	10%	DBE6D1	CPR-1000J	WMF4D1	6DP-1-102	PVC621	6PS-D10
C107	.0047		10%	GPD X5R472K	DD-472G	JBT601YP472K	CCD-472	JF247	10TS-D47
C108	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C109	.001	1KV	10%	GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C110	.001	1KV	10%	GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C111	330		10%	GPD X5F331K	DD-331	JBZ601YP331K	CCD-331	GP333	10TS-T33
C112	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C113	.0047		10%	GPD X5R472K	DD-472G	JBT601YP472K	CCD-472	JF247	10TS-D47
C114	22 N1500	3KV	10%						
C115	150	6KV		HVD-60150	DD60-151		6CDD-151	6HV315	60GA-T15
C116	75 N1500	4KV							
C117	220			GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C118	.047	400V	10%	VI614S47		DMF4S47	4DP-3-473	PVC4147	4PS-S47
C120	75 N1500	5KV	10%						
C121	68	N750	10%						
C122	.047	1KV	10%						
C123	.1	1KV		BE10S47		DPMS16S47	16DP-5-473		10TM-S47
C124	.05			BE10P1					10TM-P10
C125	.01			TTP-.05	DA-503	HOV101Z503Z		MAG2515	HY-535
C126A	.001		10%	GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
B	.001		10%	GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C127A	.001			GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
B	.001			GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C128	.1	200V		GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C129	5		5%	DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C130	.0047		10%	NPO-DI 5.0		CZ601CH5R0D			10TCC-V50
C131	40	NPO	5%	GPD X5R472K	DD-472G	JBT501YP472K	CCD-472	JF247	10TS-D47
C132	220	1KV	10%	NPO-DI 39	TCZ-39		CCTO-390	CNO439	10TCC-Q39
C133	120	2KV N1500		GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C134	100			GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C135	240	N470	5%						
C136	270	N750	10%						
C137	.05	25V		TTP-.05	DA-503	HOV101Z503Z		MAG2515	HY-535
C138	.05	25V		TTP-.05	DA-503	HOV101Z503Z		MAG2515	HY-535
C139	.0015			GPD X5F152K	DD-152	DMF6P1	CCD-152	GP215	10TS-D15
C140	.1	600V		DBE6P1		DMF6P1	6DP-4-104	PVC601	6PS-P10
C141	2								
C142	.1	400V		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C143	13	#22-4741							
C144	8	NPO ±.25		NPO-DI 8.2		NP08P2			10TCC-V82
C145	2								
C146	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C147A	.001	1KV		GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
B	.001	1KV		GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C148	.001	1KV	10%	GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C149	.22			DBE6P22		DPMS4P22	4DP-5-224	PVC4022	4PS-P22
C150	.01	1.5KV				HVT162ZV103P		2HV110	30GA-S10
C151	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C152	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C153	.047	600V		DMF6S47		DMF6S47	6DP-3-473	PVC6147	6PS-S47
C154	12	NPO	5%	GPD X5F102K	TCZ-12	CZ601CG120J	CCD-102	CNO412	10TCC-Q12
C155	.001				DD-102	GP1000		GP210	10TS-D10
C156	.0018	400V	10%						
C157	.1	400V		DBE4P1		DMF4P1	4DP-3-104	PVC401	4PS-P10
C158	.001			GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C159	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C160	1.5			NPO-DI 1.5	DTZ-1R5	NP01P5		CNO515	10TCC-V15
C161	220	1KV	10%	GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C162	18	NPO	5%			CY601CG180J		CNO418	10TCC-Q18
C163	100	NPO	5%					CNO310	10TCC-T10
C164	.001	1KV	10%	GPD X5F102K	DD-102	JBX601YP102K	CCD-102	GP210	10TS-D10
C165	.022	600V		DBE6S22		DMF6S22	6DP-2-223	PVC6122	6PS-S22
C166	100	1KV	10%	GPD X5F101K	DD-101	GP100	CCD-101	GP310	10TS-T10
C167	150	1KV	10%	GPD X5F151K	DD-151	GP150	CCD-151	GP315	10TS-T15
C168	47	N75	10%				*	*	
C169	82	N1500	5%				*	*	
C170	470	N1500	10%				*	*	
C171	820	N2200	5%				*	*	
C172	820	N2200	5%				*	*	
C173	.01			GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C174	.1	100V	10%	DBE2P1		DMF1P1	1DP-2-104	PVC101	225P10491MD3
C175	.082	200V	10%	DBE6S82		DPMS6S82	6DP-4-823	PVC6156	4PS-S56
C176	.056	200V	10%	DBE6S56		PKM4S56	4DP-3-563	PVC6156	4PS-S56
C177	.1	200V	10%	DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C178A	.0047			GPD X5R472K	DD-472G	JBT601YP472K	CCD-472	JF247	10TS-D47
B	.0047			GPD X5R472K	DD-472G	JBT601YP472K	CCD-472	JF247	10TS-D47

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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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.
C179	.1	600V	DBE6P1		DMF6P1	6DP-4-104	PVC601	6PS-P10
C180	36	N33 5%						
C181	.0047	10%	V1614D47	CPR-4700J	DMF4D47	6DP-1-472	PVC6247	6PS-D47
C182	.05	25V	TTP-05	DA-503	HOV101Z503Z		MAG2515	HY-535
C183	.05	25V	TTP-05	DA-503	HOV101Z503Z		MAG2515	HY-535
C184	470	1KV	GPD X5F471K	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C185	.001		GPD X5F102K	DD-102	GP 1000	CCD-102	GP210	10TS-D10
C186	.001		GPD X5F102K	DD-102	GP 1000	CCD-102	GP210	10TS-D10
C187	6.8	N75 10%	#22-5368					
C188	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C189	.047		V1612S47	DD-821	DPM56S47	1DP-2-473	PVC1147	225P47391WD3
C190	820		GPD X5F821K	DD-103	GP820	CCD-821	GP382	10TS-T82
C191	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C192	.001	#22-4718						
C193	.01		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C194	.001		GPD X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C195	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C196	.05		TTP-05	CK-503	MGP05	CCD-503	TA150	TGL-S50
C197	.001	#22-4728						
C198	.001	#22-4728						
C199	.001	#22-4728						

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

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Hue	200	63-8288			BU11, CF75, SS4, DC1*	
R2	Hue Volume/Switch	200 1meg, 625K Tap	63-8290 (7) 63-7600	F16-1meg, SP212,KR-8FR	C47SF-1meg, RS-3/16,TT-2 or [NPF-1meg, UPP-H-400, PPAP,NWG-18,TT-2]	B19-137X,SK8(6) [PPQ19-137X, SK8 (6) [BU1, CF47T, SS11A, K (6)]*	RUP16T35,SL35 or [PP16T55,DS37]or [P16T55,SLF37 FPP-1]
R3	Volume	1meg	63-7610 (7)				
R3	Color Level	500	63-7536	F4-500, SNF108		BU11, CF77, SS4, DC1	UA751A, SD1125
R5	Color Level Height	500 3.5meg	63-7608 (7) 63-8443	TT-86 or F1-4meg,SNK010	A47-4meg-S, RN-3, TT-2 or[NP-4meg-S, NML-A-300, TT-2]	B11-240, TM4 or [BU11, CF21, SS6]*	PTA355L or [RU46L, SL37, SN281] or [UA36L, SN281]
R6	Vertical Linearity	2000, 2W 300 Stop	63-6951	WP-1.5K (1) or V-2000 (1)	U39-2000 (1)	110-300-350 (1)	MR1500P (1)
R7	Vertical Hold	750K	63-6979				
R8	Contrast	500	63-6980				
R9	Brightness	1meg	63-7092				
R10	Brightness Range	3meg	63-7101	TT-84 or F1-3meg,SNK010	B47-3meg-S or [NP-3meg-S, NML-A-300, TT-2]	B11-140, TM4 or [BU11,CF21,SS6]*	RU36L, SL37, SN281 or [UA36L,SN281] or SU59
R11	Tone Detent at 50%	1meg	63-7351				
R12	Color Killer	250K	63-8449	TT-50 or F1-250K,SNK010	B47-250K-S or [NP-250K-S, NML-A-300,TT-2]	B11-130, TM4 or [BU11,CF15,SS6]*	RU254L, SL37, SN281 or [UA254L,SN281] or SU46
R13	AGC Delay	500, 2W	63-8308	WB-500 or WT-500 or V-500	U39-500 or [NPW-500, NML-A-300, TT-2]	110-600 or P115R501A or [BU1,WF20,SS6]*	MR500B or MR500T or VW500
R14	Buzz	750, 2W	63-6950	WT-850 or WP-1K or V-800	U39-800 or [NPW-750, NML-A-300, TT-2]	110-1000 or P115R102A or [BU1,WF2,SS6]*	MR850T or MR1000P or VW750
R15	Blue Screen (G2)	5meg	63-6977	F1-5meg (2), SNK012		HLC5 (2)	PTA56L (2) or [UA56L (2), SN1000] or [RU56L (2), SN1000]
R16	Red Screen (G2)	5meg	63-6978	F1-5meg (2), SNK012		HLC5 (2)	PTA56L (2) or [UA56L (2), SN1000] or [RU56L (2), SN1000]
R17	Green Screen (G2)	5meg	63-6976	F1-5meg (2), SNK012		HLC5 (2)	PTA56L (2) or [UA56L (2), SN1000] or [RU56L (2), SN1000]
R18	AGC	7000 2W	63-8235	WT-8K	NPW-7500, NML-A-300		MR8000T or VW7P5K

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.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R19	Green Gain (Drive)	5000	63-6334	F1-5000 (2), SNK012	B47-5000-S (2) or [NP-5000-S (2), NML-A-300]	B11-114,TM4 (2) or [BU11,CF8, SS6]*	PTA53L (2) or [RU53L (2), SN1000] or [UA53L (2), SN1000]
R20	Blue Gain (Drive)	5000	63-6333	F1-5000 (2), SNK012	B47-5000-S (2), [NP-5000-S (2), NML-A-300]	B11-114,TM4 (2) or [BU11,CF8, SS6]*	PTA53L (2) or [RU53L (2), SN1000] or [UA53L (2), SN1000]
R21	High Voltage Adjust	3meg	63-8460				
R22	Vertical Centering	10, 2W	63-7009	WP-15 (2), or WT-10 or V-10 (5)	U39-15 (5) or [NPW-10,NML-A-300, TT-2]	110-15 (5) or P115R100A or [BU1,WF16,SS6]*	MR15P (2) or MR10T or VW10
R23	Horizontal Centering	10, 2W	63-7211	WP-15 (2) WSK104 RTT-15meg		P115R100A (2), P115-117-1	MR15P (2), MRS1250 FCR156L
R24	Focus	15meg	63-7210				
R25	Focus	20meg	63-7145 (8)				
R25	R-G Horizontal Lines (Top)	120, 2W	63-7073	WT-100, WSK104 or V-120 (3)	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	P115R101A, P115-117-1 or [BU11,WF19,SS6]*	MR100T, MRS1250
R26	R-G Vertical Lines (Top)	120, 2W	63-7073	WT-100, WSK104 or V-120 (3)	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	P115R101A, P115-117-1 or [BU11,WF19,SS6]*	MR100T, MRS1250
R27	Blue Horizontal Lines (Top)	60, 2W	63-7348	WT-50, WSK104 or V-60 (3)	U39-75 (3) or [NPW-75, NML-A-300, TT-2]	P115R500A, P115-117-1 or [BU11,WF18,SS6]*	MR50T, MRS1250
R28	Blue Horizontal Lines (Left)	180, 2W 60 Stop	63-7076	WP-175S,WSK104 or V-150 (4)	U39-150 (4)	P115R101A (4), P115-117-1 or 110D175-60 or [BU11,WF1 (4), SS6]*	MR175SP, MRS1250
R29	R-G Vertical Lines (Left)	70, 2W	63-7075.D	WT-100, WSK104 or V-100	U39-75	P115R101A, P115-117-1 or [BU11,WF19,SS6]*	MR100T, MRS1250
R30	R-G Horizontal Lines (Left)	60, 2W	63-7074	WT-50, WSK104 V-60 (3)	U39-75 (3) or [NPW-75, NML-A-300, TT-2]	P115R500A, P115-117-1 or [BU11,WF18,SS6]*	MR50T, MRS1250
R31	R-G Horizontal Lines (Bottom)	120, 2W	63-7073	WT-100, WSK104 or V-120 (3)	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	P115R101A, P115-117-1 or [BU11,WF19 SS6]*	MR100T, MRS1250
R32	R-G Vertical Lines (Bottom)	60, 2W	63-7074	WT-50, WSK104 or V-60 (3)	U39-75 (3) or [NPW-75, NML-A-300,TT-2]	P115R500A, P115-117-1 or [BU11,WF18,SS6]*	MR50T, MRS1250
R33	Blue Horizontal Lines (Bottom)	120, 2W	63-7347	WT-100, WSK104 or V-120 (3)	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	P115R101A, P115-117-1 or BU11,WF19,SS6]*	MR100T, MRS1250

- * "SNAPTROL"
(1) Connect a 270 ohm, 2 Watt resistor in series with terminal.
(2) Use original nylon tab mount.
(3) Insulate control from chassis and solder original center terminal lead to metal case of control.
(4) Connect a 56 ohm, 2 watt resistor in series with terminal.
(5) Use original nylon tab mount and solder original center terminal lead to metal case of control.
(6) Switch must be CTS Type 080.
(7) Alternate Part, used in Model A5922W5.
(8) Alternate Part, may be used in some versions.

RESISTORS (Power and Special)

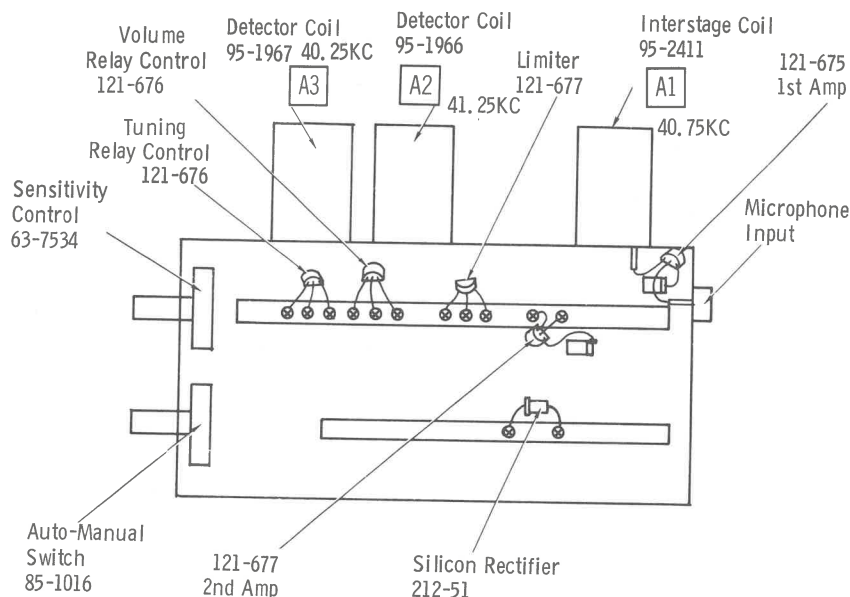
ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R41	9100 4W		
R42	8200 5W		
R76	4700 7W	7G-4.7K	63-4686
R78	47K 3W		63-7312
R100	3500 10W	10G-3.3K	63-6995
R105	22K 3W	3G-22K	63-5025
R165	17K 5W		63-7407
R166	47K 3W		63-7312

* Voltage-dependent Resistor

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R178	VDR *		63-7658
R190	22K 3W	3G-22K	63-5025
R193	VDR *		63-8161
R241	Thermistor (140 Cold)		63-7346
R242	1500 18W		63-8337
R266	VDR *		63-7146
R271	VDR *		63-5058

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 1116 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.



REMOTE CONTROL RECEIVER ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1.	Connect high side to Point $\diamond A$. Low side to ground.	40.75KC		DC probe to Point $\diamond B$. Common to ground.	A1	Adjust for maximum deflection.
2.	"	41.25KC		DC probe to Point $\diamond C$. Common to Point $\diamond E$.	A2	"
3.	"	40.25KC		DC probe to Point $\diamond D$. Common to Point $\diamond E$.	A3	"

REMEMBER TO ASK— "What else needs fixing?"

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.

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DATE 8-70

SET 1116 FOLDER 3-A



