

## PHOTOFACT® Folder

with CIRCUITRACE™

For Supplier Address See PHOTOFACT Index

GENERAL ELECTRIC  
CHASSIS C-2, L-2

COLOR TV

GENERAL ELECTRIC  
CHASSIS C-2, L-2

MODEL	CHASSIS
CBM261CWD-2	C-2
CBM264CWD-2	C-2
M810CWD-2	C-2
M910LWD-2	L-2
M911LMP-2	L-2
M913LPN-2	L-2
M916LPN-2	L-2
M930LWD-2	L-2
M931LMP-2	L-2
WM264CWD-2	C-2
WM266CWD-2	C-2
WM270CBW-2	C-2
WM274CWD-2	C-2
WM277CWD-2	C-2
WM279CCT-2	C-2
WM279CEA-2	C-2
WM381CWD-2	C-2
WM382CWD-2	C-2
WM383CWD-2	C-2



Model M910LWD-2

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## 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.

CAUTION: One side of AC line connected to chassis. Use isolation transformer for servicing.  
Make certain isolation networks are in place and exposed metal is safe to touch before returning set to customer.

REMEMBER TO ASK— "What else needs fixing?"

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

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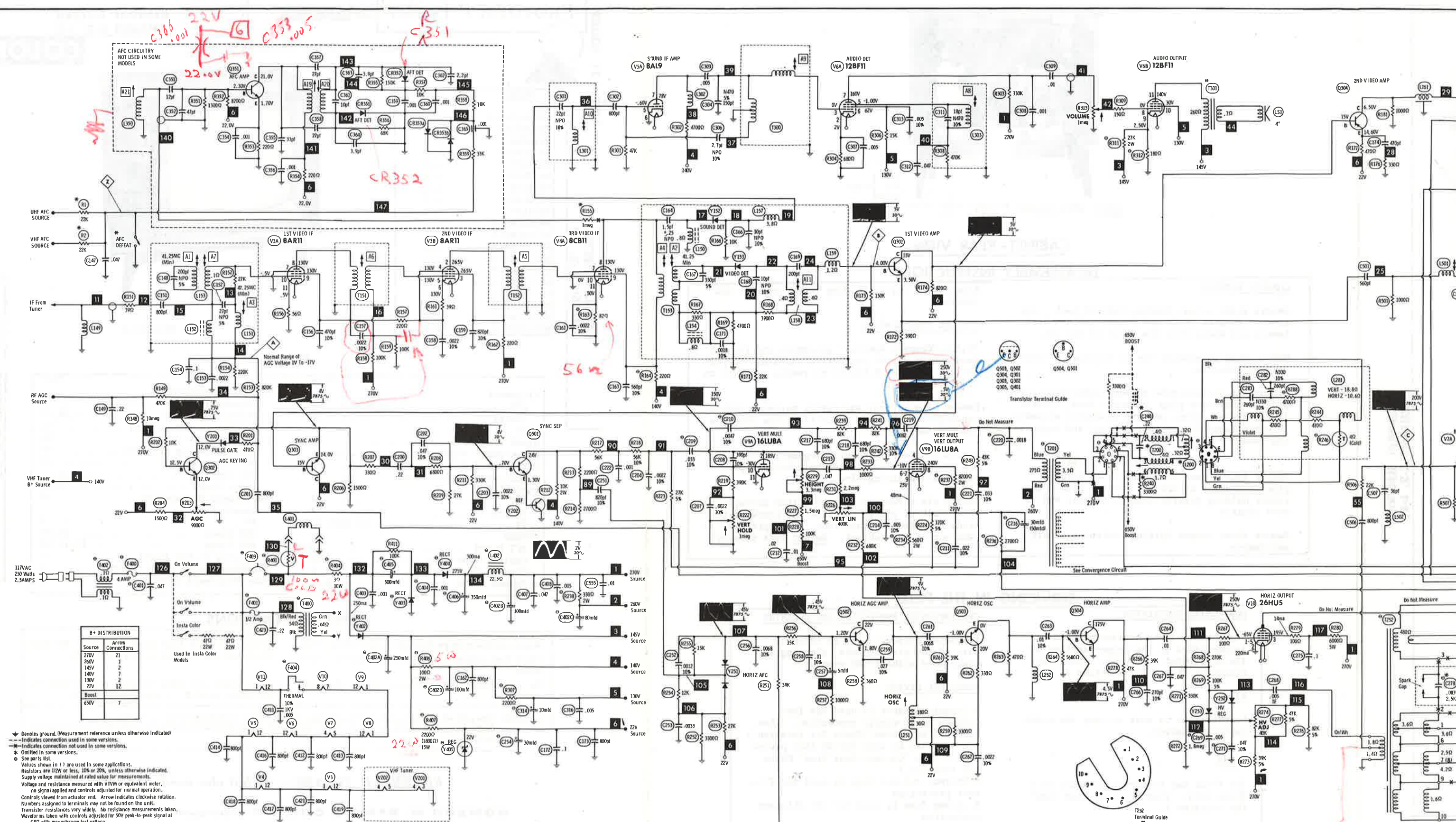
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SET 12 31 FOLDER 2

GENERAL ELECTRIC  
CHASSIS C-2, L-2

40

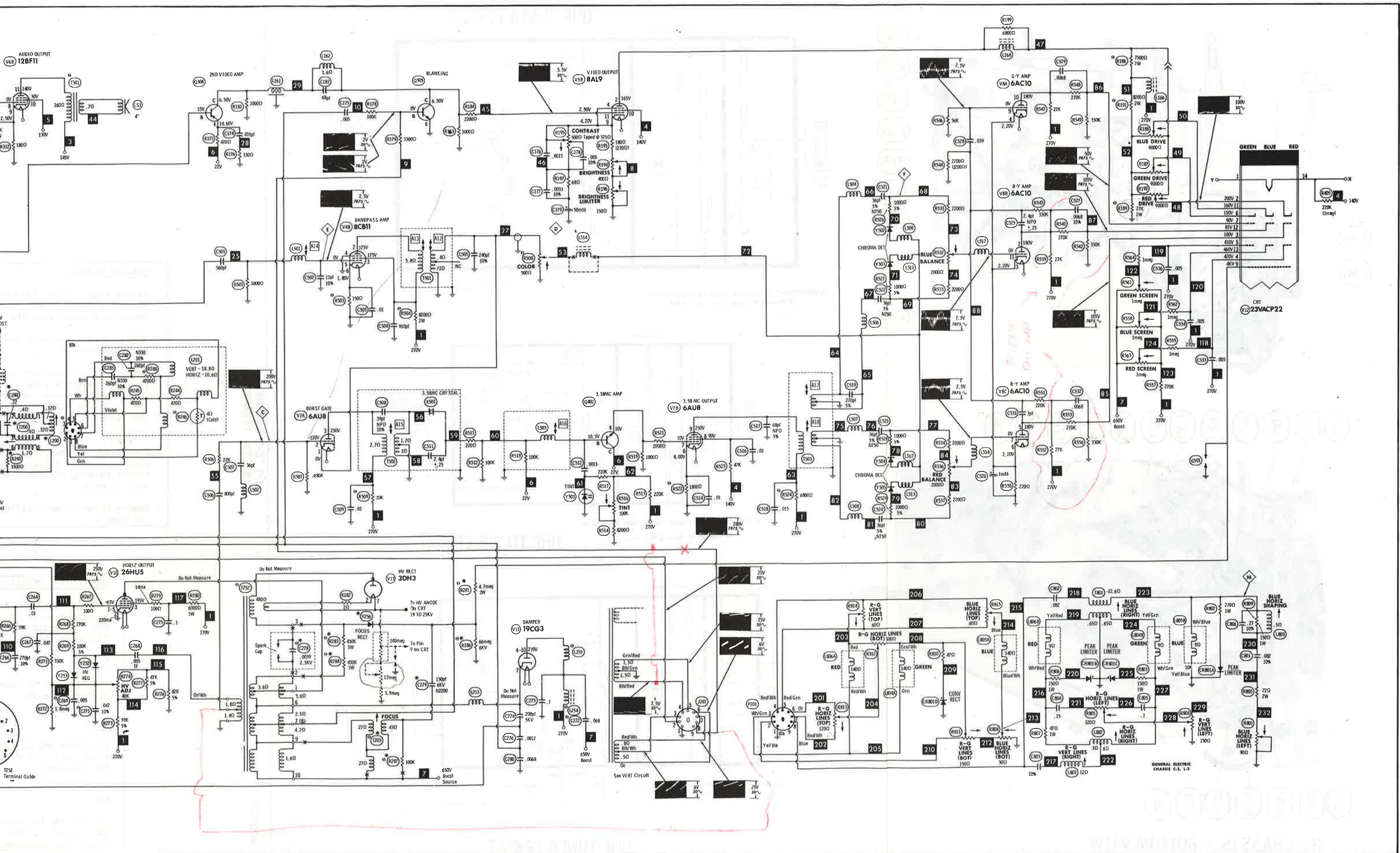




\* Denotes ground. (Measurement reference unless otherwise indicated)  
 --- Indicates connection used in some versions.  
 --- Indicates connection not used in some versions.  
 \* Omitted in some versions.  
 \* See parts list.  
 Values shown in ( ) are used in some applications.  
 Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated.  
 Supply voltage maintained at rated value for measurements.  
 Voltage and resistance measured with VTVM or equivalent meter,  
 no signal applied and controls adjusted for normal operation.  
 Controls viewed from actuator end. Arrow indicates clockwise rotation.  
 Numbers assigned to terminals may not be found on the unit.  
 Transistor resistances vary widely. No resistance measurements taken.  
 Waveforms taken with controls adjusted for 50V peak-to-peak signal at  
 CRT with monochrome test pattern.

A PHOTOFACT STANDARD NOTATION SCHEMATIC  
 with **CircuitDac**  
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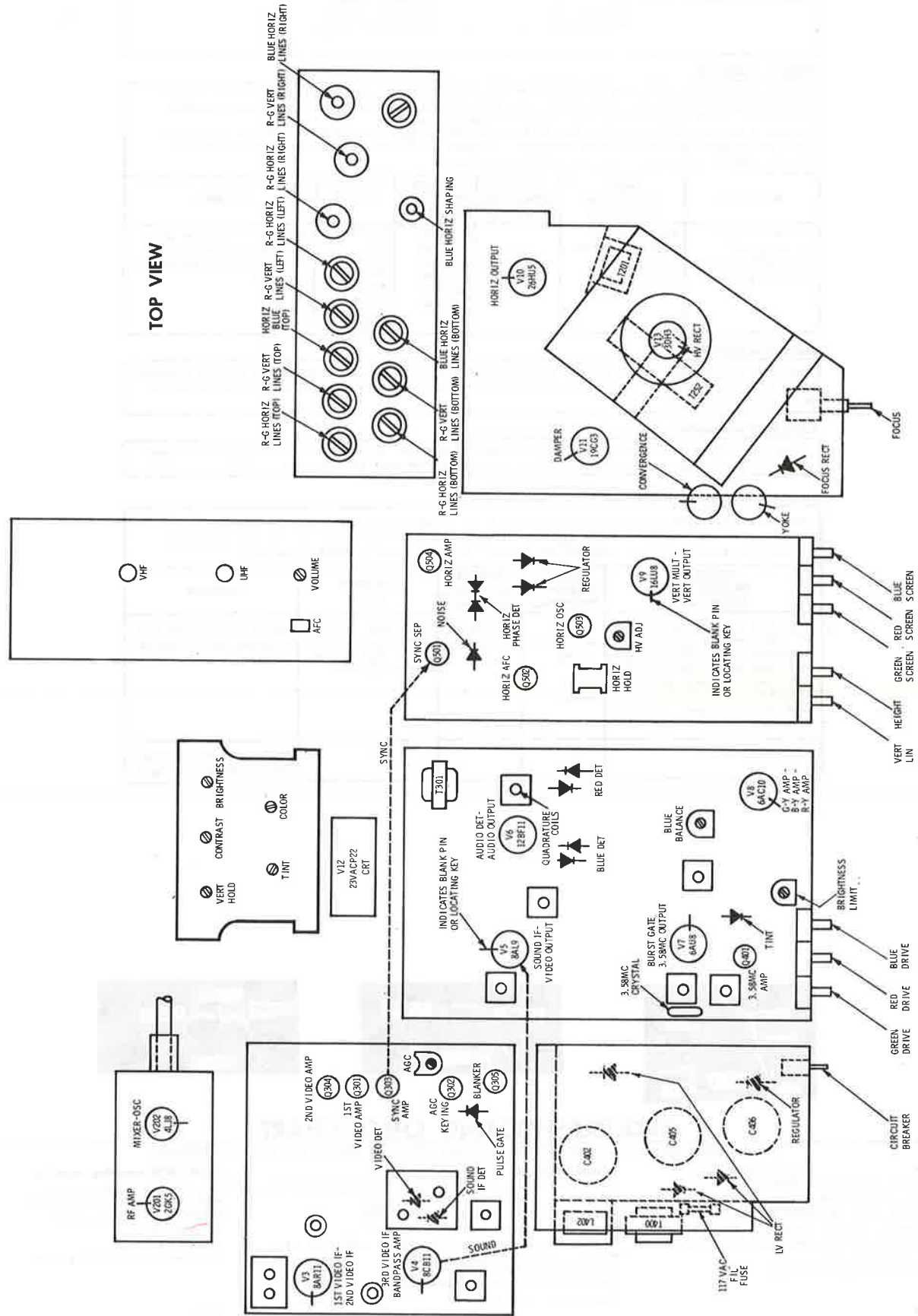
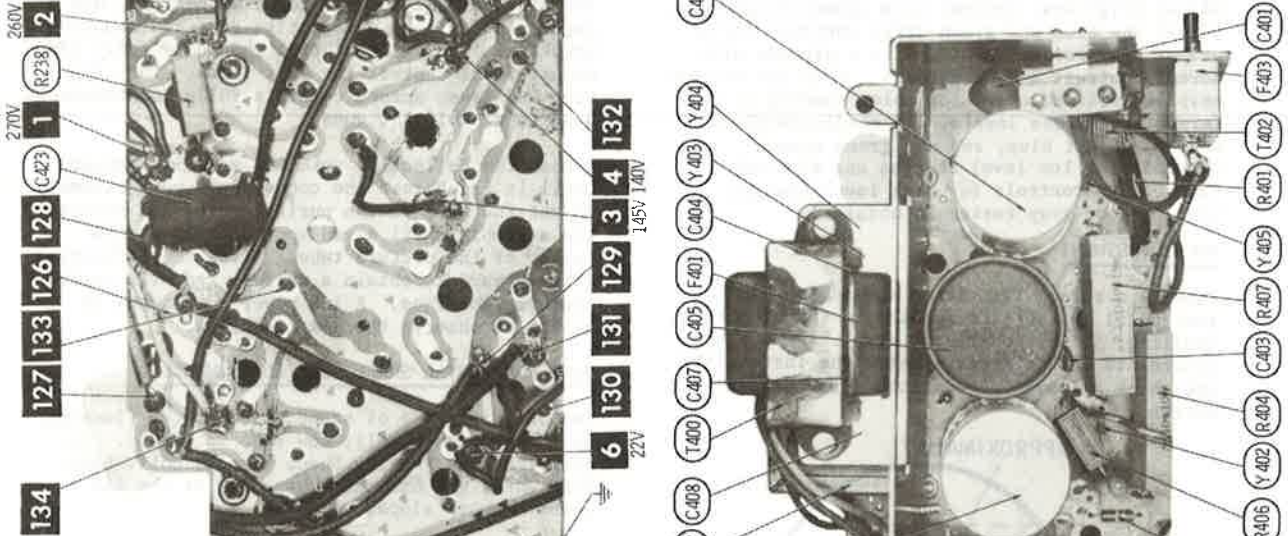






ITEM	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	TOP CAP
V3	8AR11	5Ω	242Ω †	242Ω †	39Ω ▲	60K	INFINITE	0Ω	259Ω ▲	259Ω ▲	220K	56Ω	2.5Ω	
V4	8CB11	8Ω	822Ω †	822Ω †	0Ω	1150Ω	150Ω	0Ω	320Ω ††	320Ω ††	0Ω	56Ω	5Ω	
V5	8AL9	8Ω	7500Ω †	0Ω	300Ω	47K	0Ω	4800Ω ††	0Ω	300Ω	100Ω ††	1000Ω	8.5Ω	
V6	12BF11	11Ω	680Ω	5Ω	0Ω	470K	17K ††	330K †	250K	180Ω	2300Ω ††	260Ω ††	8.5Ω	
V7	6AU8	200Ω	680K	10K †	11Ω	12Ω	1800Ω	4000Ω	47K ††	6800Ω †				
V8	6AC10	13Ω	27K †	220Ω	220Ω	27K †	220Ω	5000Ω	0Ω	56K	27K †	6000Ω	12Ω	
V9	16LU8A	13Ω	3meg †	NC	640Ω †	NC	2meg	NC	8200Ω †	560Ω	800K	0Ω	16Ω	
V10	26HU5	500K	0Ω	6100Ω †	NC	NC	NC	16Ω	24Ω	NC				5Ω †
V11	19CG3	22Ω	NC	80K	23Ω	NC	NC	550K	NC	NC	23Ω	NC	24Ω	
V12	23VACP22	FIL	9000Ω †	160K	1.5meg †	1.5meg †	4000Ω †	160K	4500Ω †	71meg	NC	4000Ω †	160K	
												PIN 13 1.3meg †	PIN 14 FIL	
V13	3DH3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE												860K †
V201	2GK5	0Ω	1.5meg	0Ω	.5Ω	1200Ω ††	0Ω	0Ω						
V202	4LJ8	15K	4700Ω ††	0Ω	1.70Ω	.5Ω	1100Ω ††	47K ††	0Ω	220K				
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

NC NO CONNECTION





TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain voltage at 117VAC. Allow a 20-minute warm-up period for the receiver and test equipment.  
Suggested Alignment Tools:  
A1 thru A18 ..... 8606, 8869, 9302  
Mixer Plate Coil ..... 9296, 9297, 9300

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 that shown.  
Connect a variable bias supply to the IF AGC line (Point A) and adjust to obtain a response curve which shows no indication of overload. Disable oscillator section of mixer-oscillator. Set the channel selector to any non-interfering channel.

INDICATOR	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
Vertical input of scope to Point B, low side to ground.	High side to ungrounded tube shield over mixer-osc., low side to ground.	44MC (10MC Sweep)	41.25MC 42.17MC 42.75MC 45.00MC 45.75MC 47.25MC	A1,A2, A3, A4,A5, A6,A7, and Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 1.

SOUND IF ALIGNMENT

Tune in a station and adjust Ag for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce the signal while aligning for undistorted output by adjusting A9 and A10.

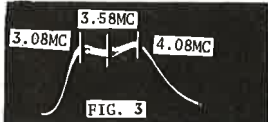
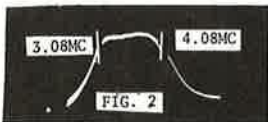
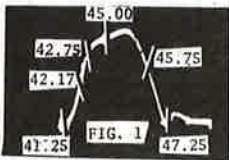
4.5MC TRAP ALIGNMENT

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 A11 for MINIMUM beat interference.

CHROMA BANDPASS ALIGNMENT

The following alignment will require the use of an RF Modulator (RCA WG304B or equivalent). Connect a -4 volt supply to Point A, a -10 volt supply to Point T, a -25 volt supply to Point C, positive of all supplies to ground. Turn the color control to maximum.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CONNECT SCOPE	REMARKS
High side of sweep generator to video sweep input of RF modulator. High side of signal gen. (set at 45.75MC) to picture carrier input. Output of RF modulator to mixer grid test point on tuner, low side to ground.	Sweep Generator to 3MC (6MC Sweep)	3.03MC 4.08MC	Vert. amp. thru detector probe, to point D. Low side to ground.	Adjust A12 and A13 for response curve similar to Fig. 2.
"	"	"	"	Adjust A14 for response curve similar to Fig.3.



TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce the indicated symptoms.			
<b>SWEEP</b> No raster, has sound No vert. deflection V9 Poor vert. lin. or foldover V9 Poor horiz. lin. or foldover V10, V11 Narrow picture Y402,Y404,Q503,Q504,V10,V11 Vert. off freq. V9 Horiz. off freq. Y251, Q502, Q503	Q503, Q504, and V10,V11,V12,V13	<b>PICTURE or SOUND</b> No pic, no sound, no raster F400,F401,F403,F404,Y402,Y404 No pic, no sound, has raster V3, V202 No pic, no sound, has snow V201, V202 No pic, has sound, no raster V5, V12 No pic, has sound, has raster Q301, Q304, V5, Y153 Has pic, no sound Y152, V5, V6 Overloaded picture Q302, Y201 Low or excessive brightness Q305 Poor focus Y256, V12	<b>COLOR (B/W operating normally)</b> No color V4,V7,V8,Q401,V12 Weak color V4,V7,V8,Q401,V12 No color sync X501, Q401 No blue V8 No red V8 Incorrect hue (tint) V7, V8
<b>RASTER</b> Yellow - no blue V8, V12 Cyan - no red V8, V12 Magenta - no green V8, V12			<b>SYNC</b> No vert. sync V9 No horiz. sync Y251, Q502, Q503 No vert. or horiz. sync Q303, Q501

This receiver employs a series filament circuit; an open filament in any tube will cause the set to be inoperative.

MISCELLANEOUS ADJUSTMENTS

HIGH VOLTAGE ADJUSTMENT

Tune in a TV program and set the brightness and contrast controls so that the screen is just illuminated. Measure the AC line voltage at the receiver. Connect a VTVM through a high-voltage probe to picture-tube HV anode. Set the High Voltage control, R274, according to the following AC line voltage: 110 volts - 24KV, 115 volts - 25KV, 120 volts - 26KV, 125 volts - 27KV.

BRIGHTNESS LIMITER ADJUSTMENT

The high voltage, gray scale and focus should be properly adjusted before brightness limiter adjustment. Turn the brightness and contrast to maximum and tune the receiver to an unused UHF channel. Measure the AC line voltage at the receiver. Connect a VTVM through a high-voltage probe to picture-tube HV anode. Set the Brightness Limiter control, R196, according to the following AC line voltage: 110 volts - 18KV, 115 volts - 19KV, 120 volts - 19.5KV, 125 volts - 20.5KV.

Adjust focus, height, and vertical linearity controls.

GRAY SCALE ADJUSTMENT

Set the VHF channel selector to any non-interfering channel to obtain a blank raster. Set the blue and green drive controls 90° from full counterclockwise. Turn brightness and contrast, blue, red, and green screen controls fully counterclockwise. Advance the screen controls one at a time until each produces a barely visible line.

Set the brightness control to the point where a raster is just visible. Adjust the blue, red and green screen ctrls to obtain a gray raster. Adjust brightness control to a normal brightness, adjust the blue and green drive controls for a proper gray raster, and tune in a picture with normal contrast and brightness. Vary the brightness control and check for color shading at different brightness levels. If readjustment is needed, adjust blue, red and green screen controls for low level changes and Blue and Green drive controls for high level changes until a good gray raster is obtained.

AGC ADJUSTMENT

Tune in a strong TV station and advance 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 AFC ALIGNMENT (3.58MC Subcarrier)

Set tint control to center of rotation. Connect color bar generator to antenna terminals. Set the blue balance and red balance controls to the center of their rotation and adjust color control fully clockwise. Connect the DC probe of VTVM to Point F and ground lead to chassis. Adjust A15, A16, A17, A18 for maximum DC voltage at Point F.

Connect DC probe of VTVM to Pin11 of V8 and ground lead to chassis. Adjust Blue Balance, R532, for zero output from detector. While turning the fine tuning control from smear to crystallization, meter should not show any deflection. Connect DC probe of VTVM to Pin 7 of V8 and ground lead to chassis. Adjust Red Balance, R536, for zero output from detector. While turning the fine tuning control from smear to crystallization, meter should not show any deflection.

Adjust controls for normal keyed rainbow pattern. Check range of tint control. The red bar should turn slightly magenta at one end of control rotation. The blue bar should turn slightly magenta at the other end. If range is off center, set tint control to mechanical center and adjust A16 for proper color bar display. If more than 1/4 turn is required, repeat "Color AFC Alignment".

HORIZONTAL HOLD ADJUSTMENT

Tune in a normal picture. Short base of Q501 to chassis ground. Adjust the horizontal hold control to obtain a floating picture. Remove short from base of Q501. The picture should remain in sync.

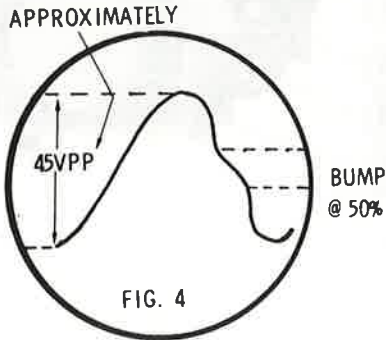
PURITY ADJUSTMENTS

Perform Step 1 of "Convergence Adjustments". If the picture tube appears to be magnetized, use a degaussing coil to demagnetize tube and mounting brackets. The color control should be fully off. Adjust focus control for best focus. Turn the blue and green screen controls fully counterclockwise to disable the guns.

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.

BLUE HORIZONTAL SHAPE COIL ADJUSTMENTS

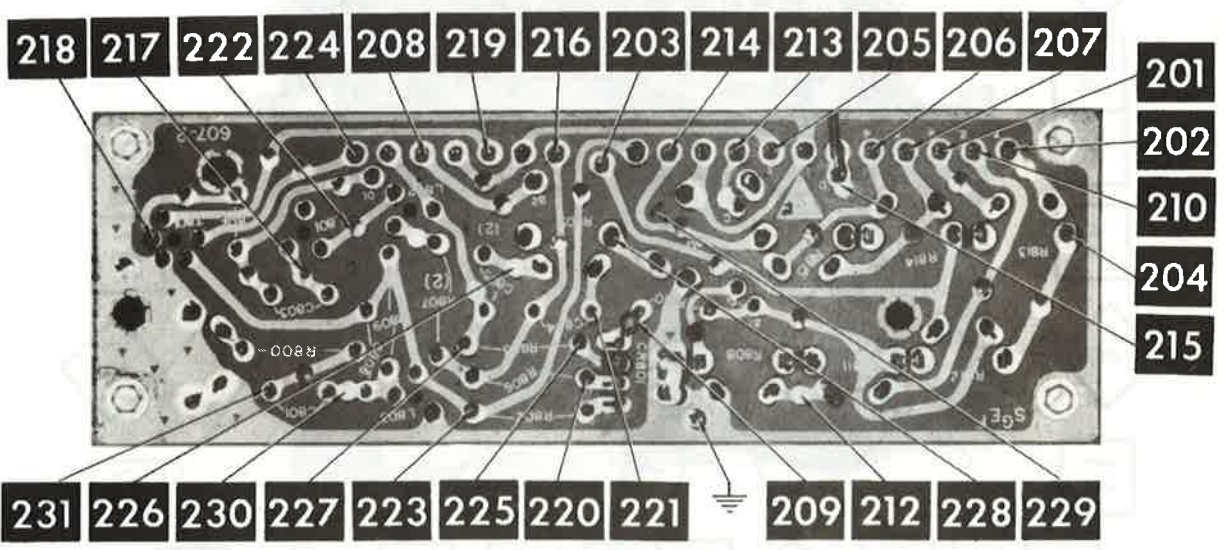
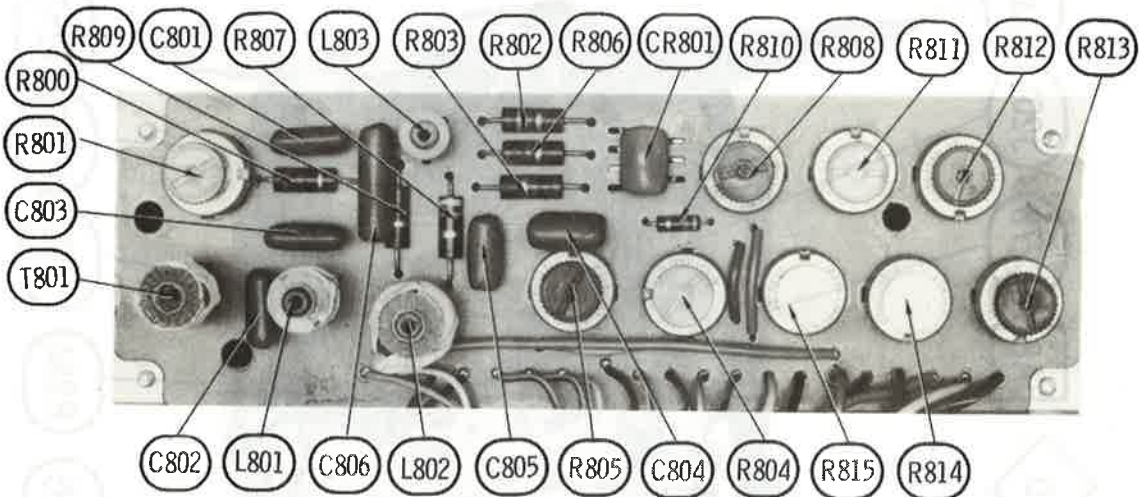
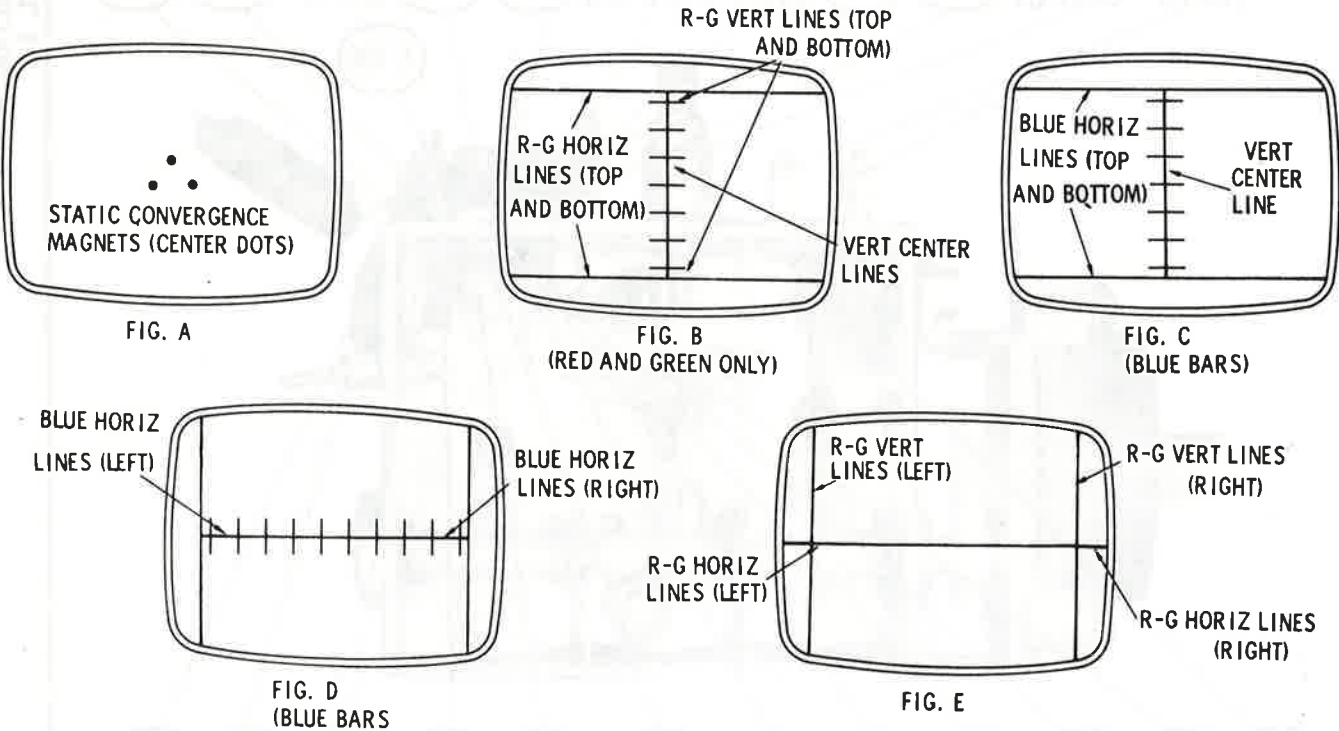
Connect high side of scope to Point M (located on convergence panel), low side to ground. Adjust the Blue Phasing Shape (Droop) coil, L803, slug until the harmonic "bump" is at the 50% point on wave slope. See Fig. 4.





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).



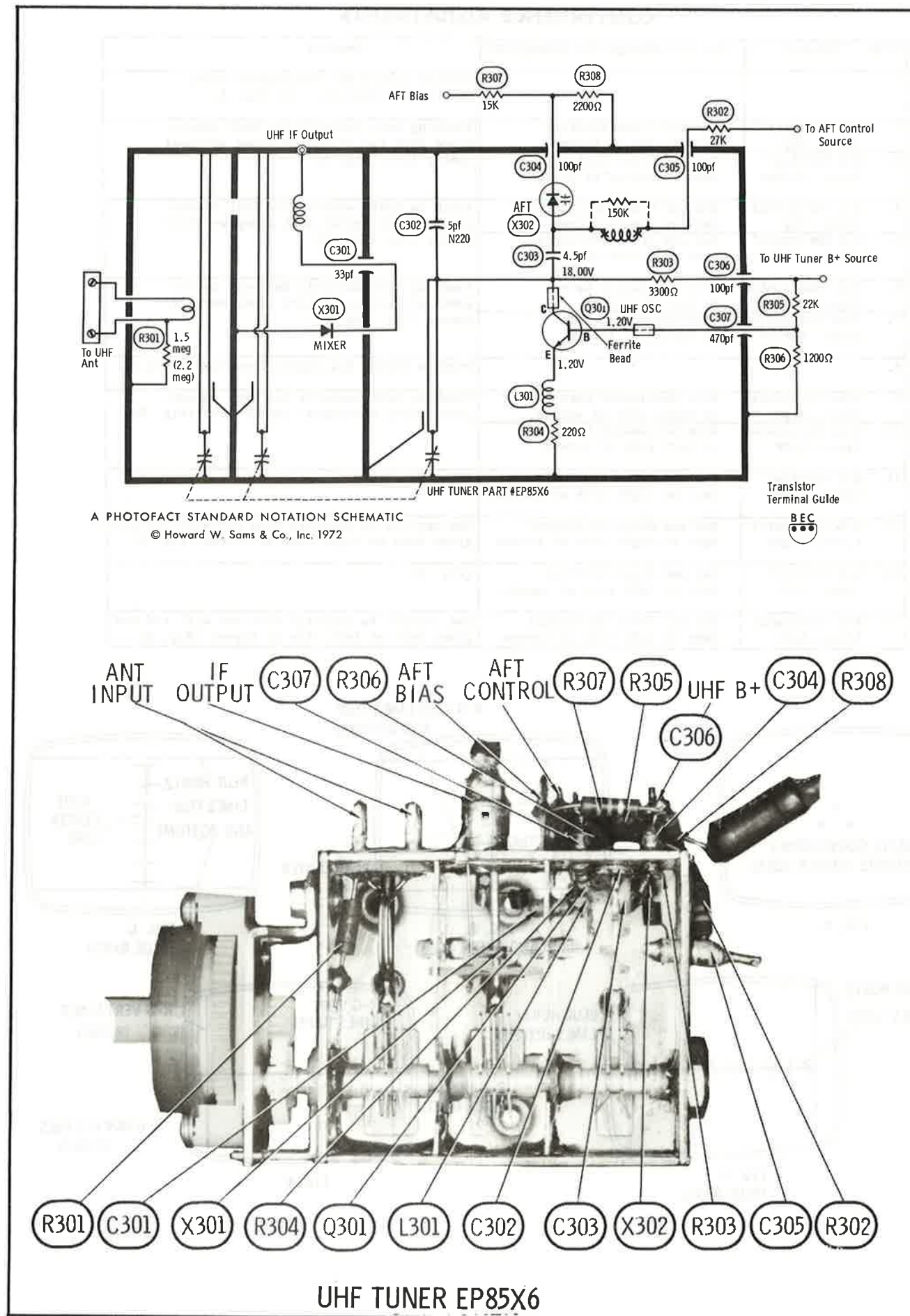
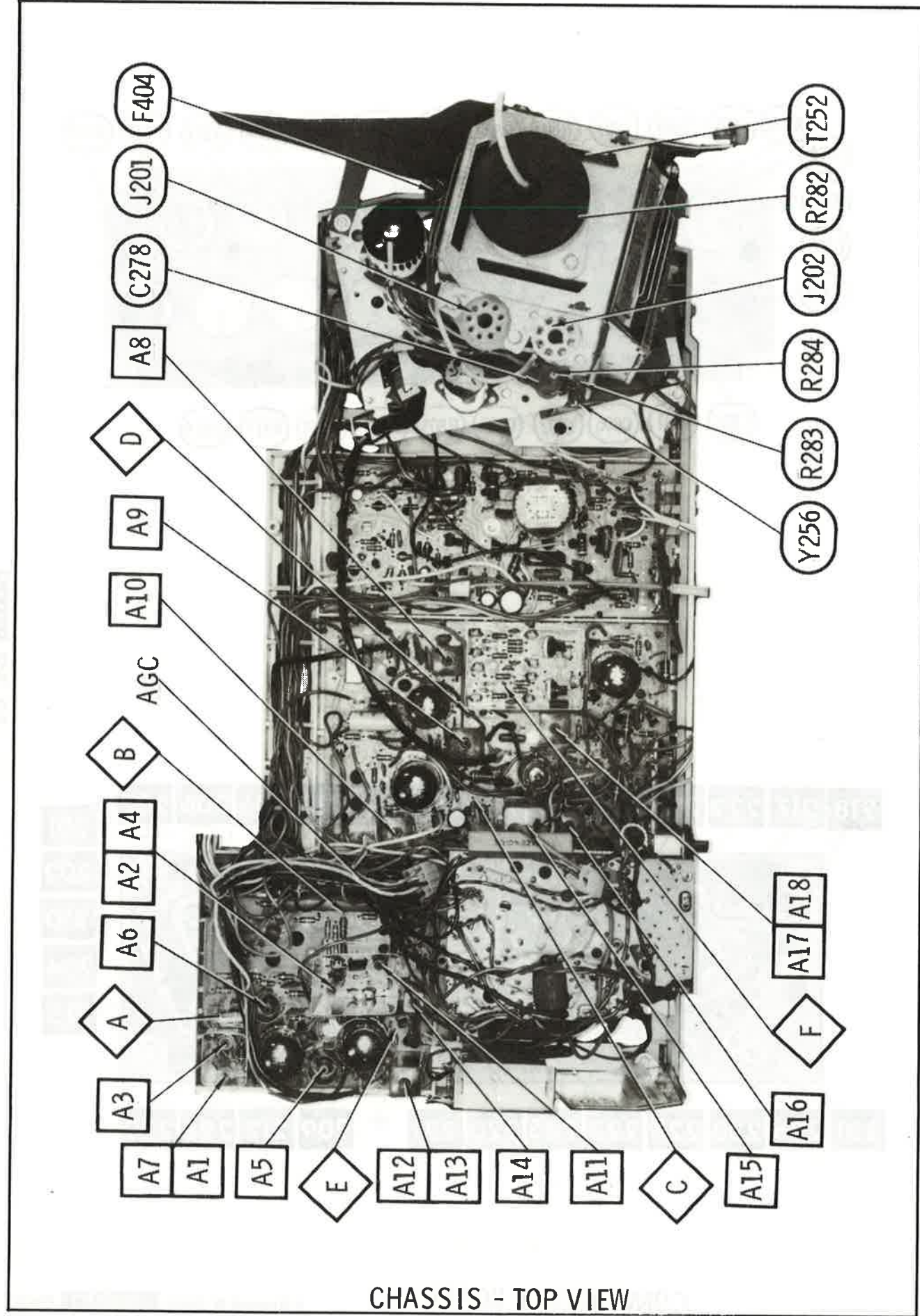
CONVERGENCE BOARD

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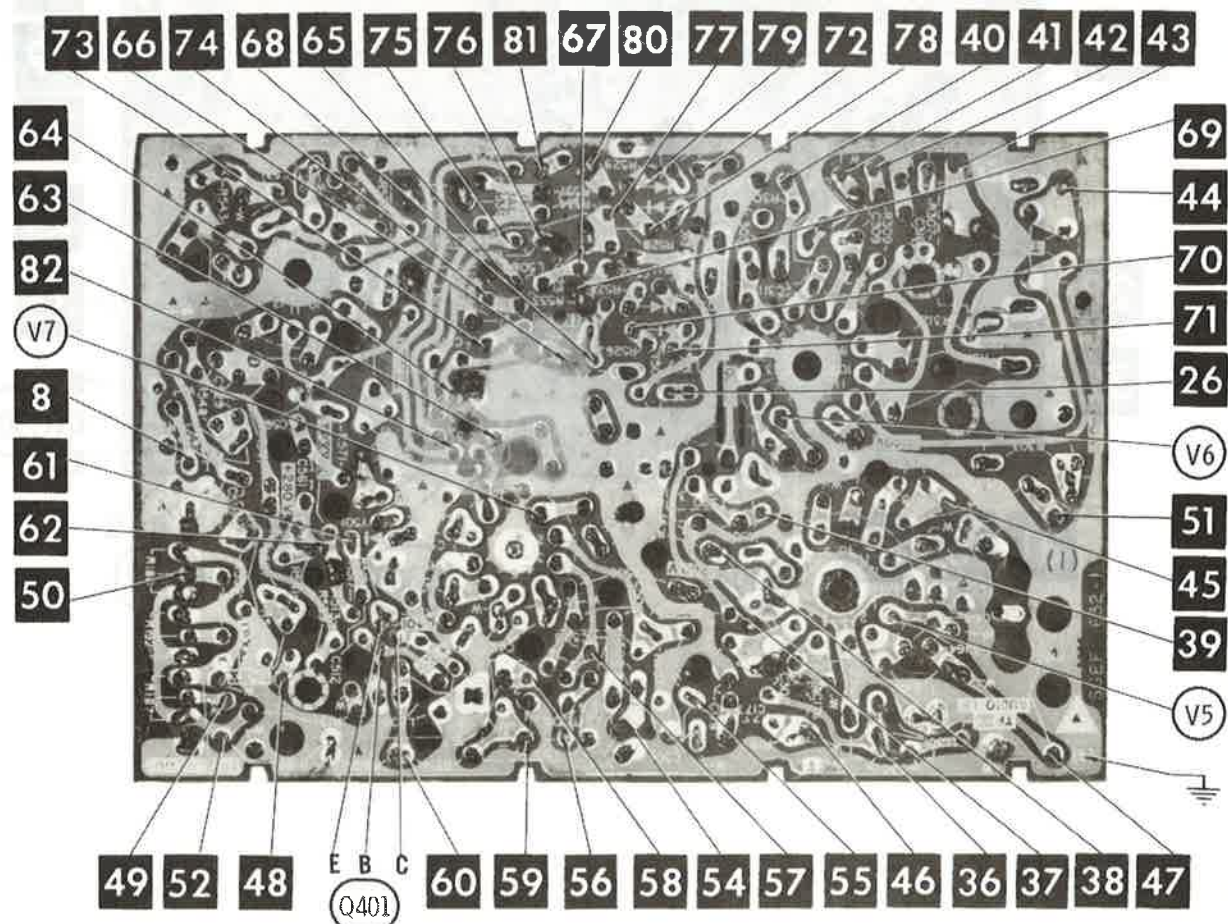
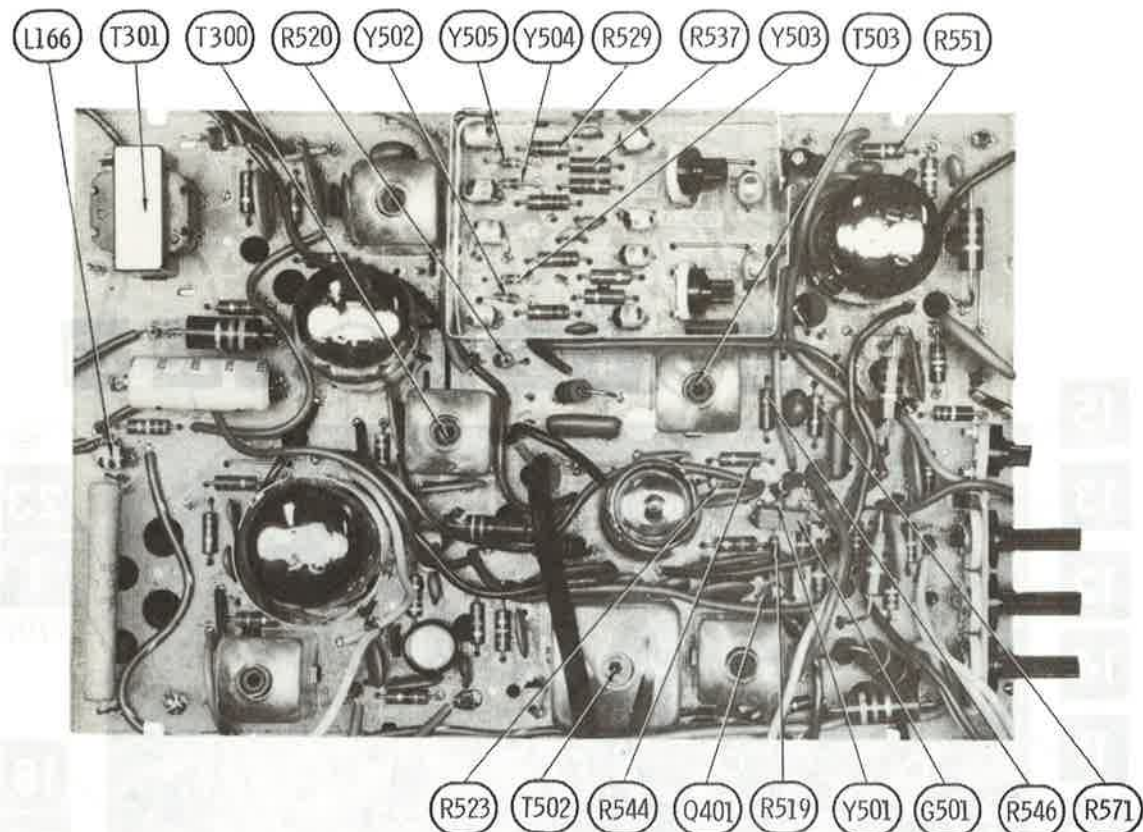
GENERAL ELECTRIC  
CHASSIS C-2, L-2

FOLDER 2

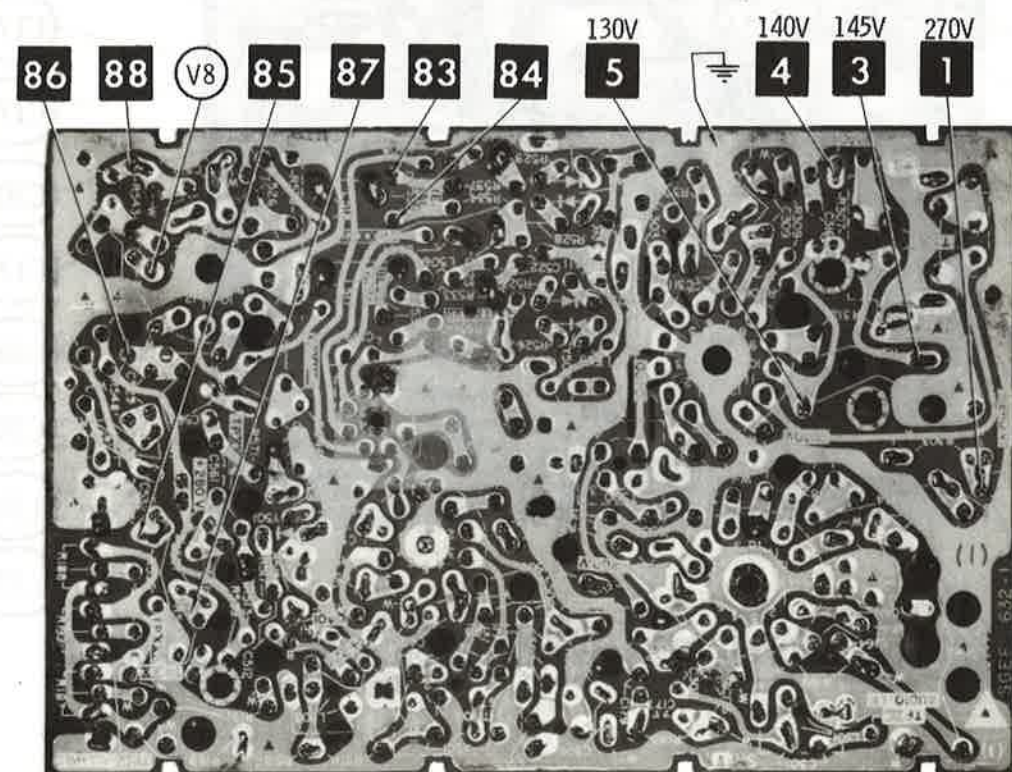
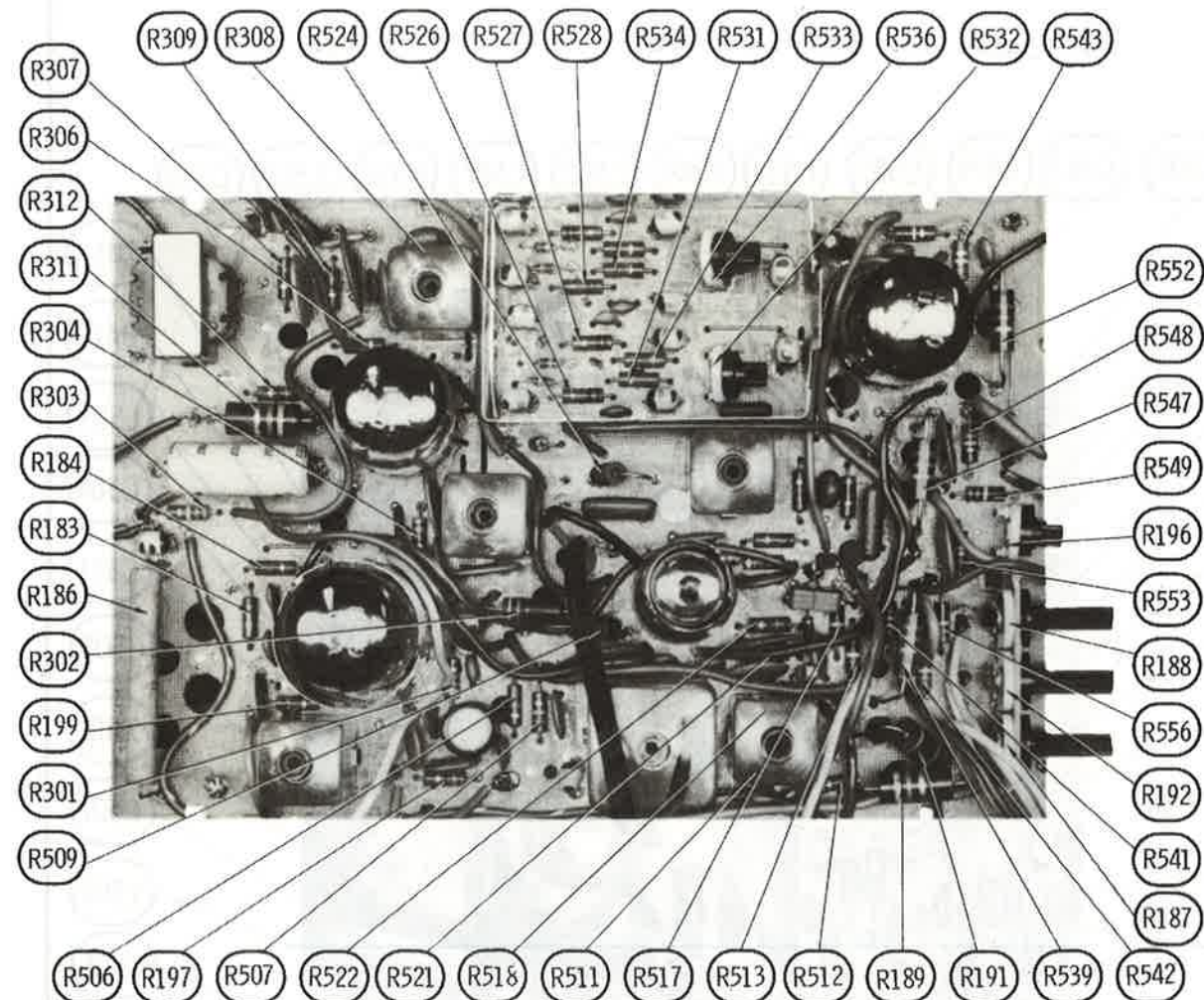








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ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED

CHROMA BOARD

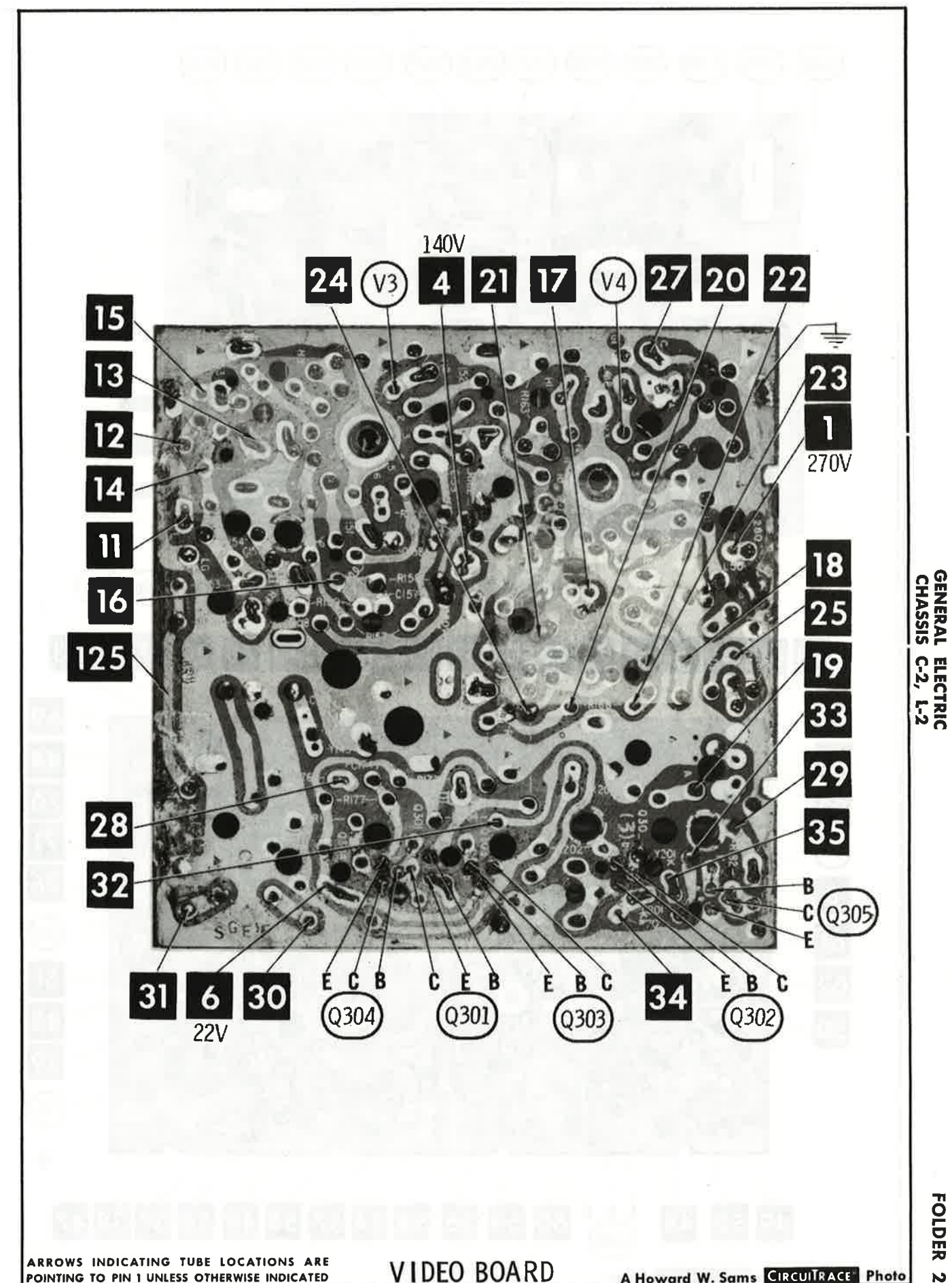
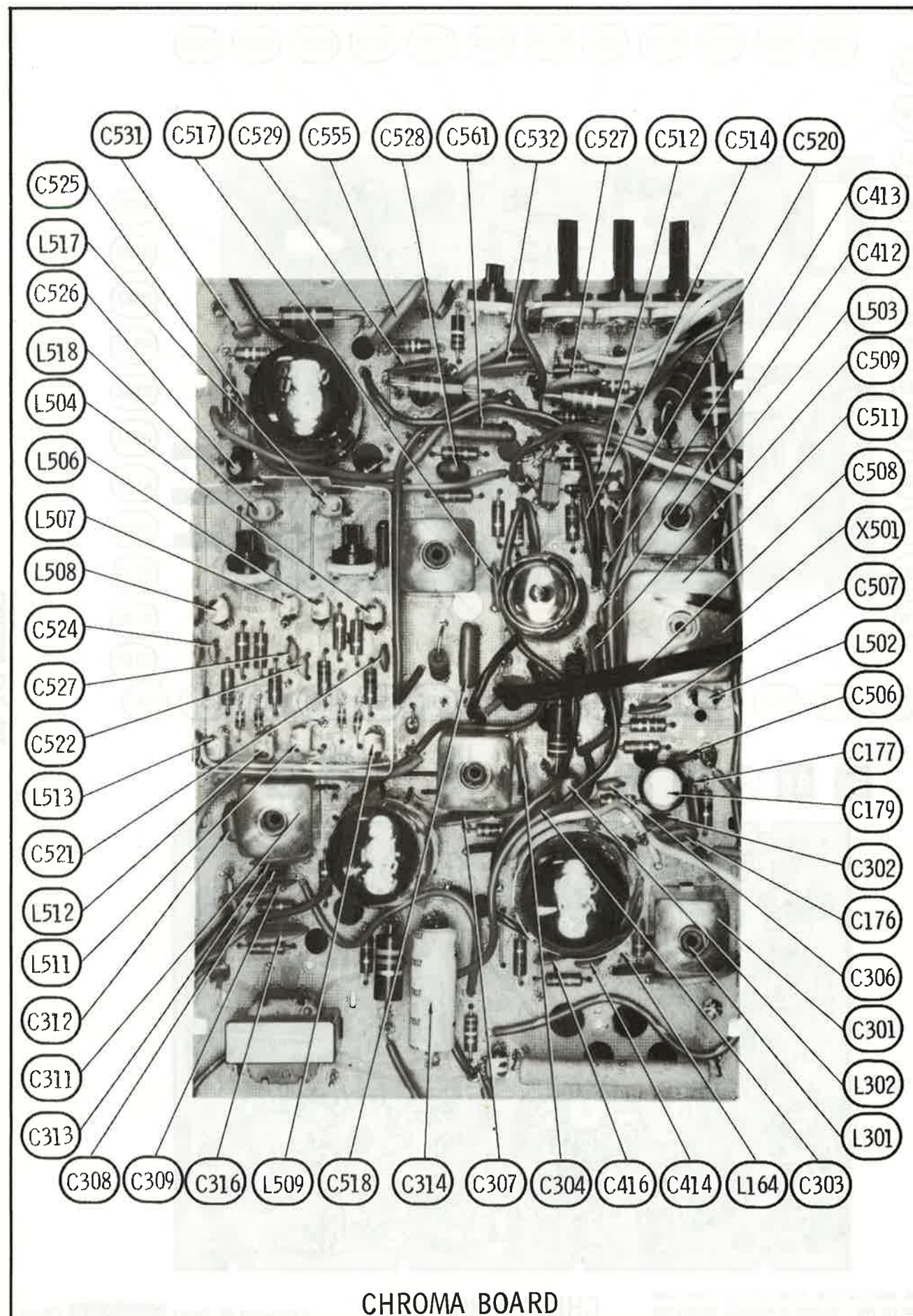
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CHASSIS C-2, L-2

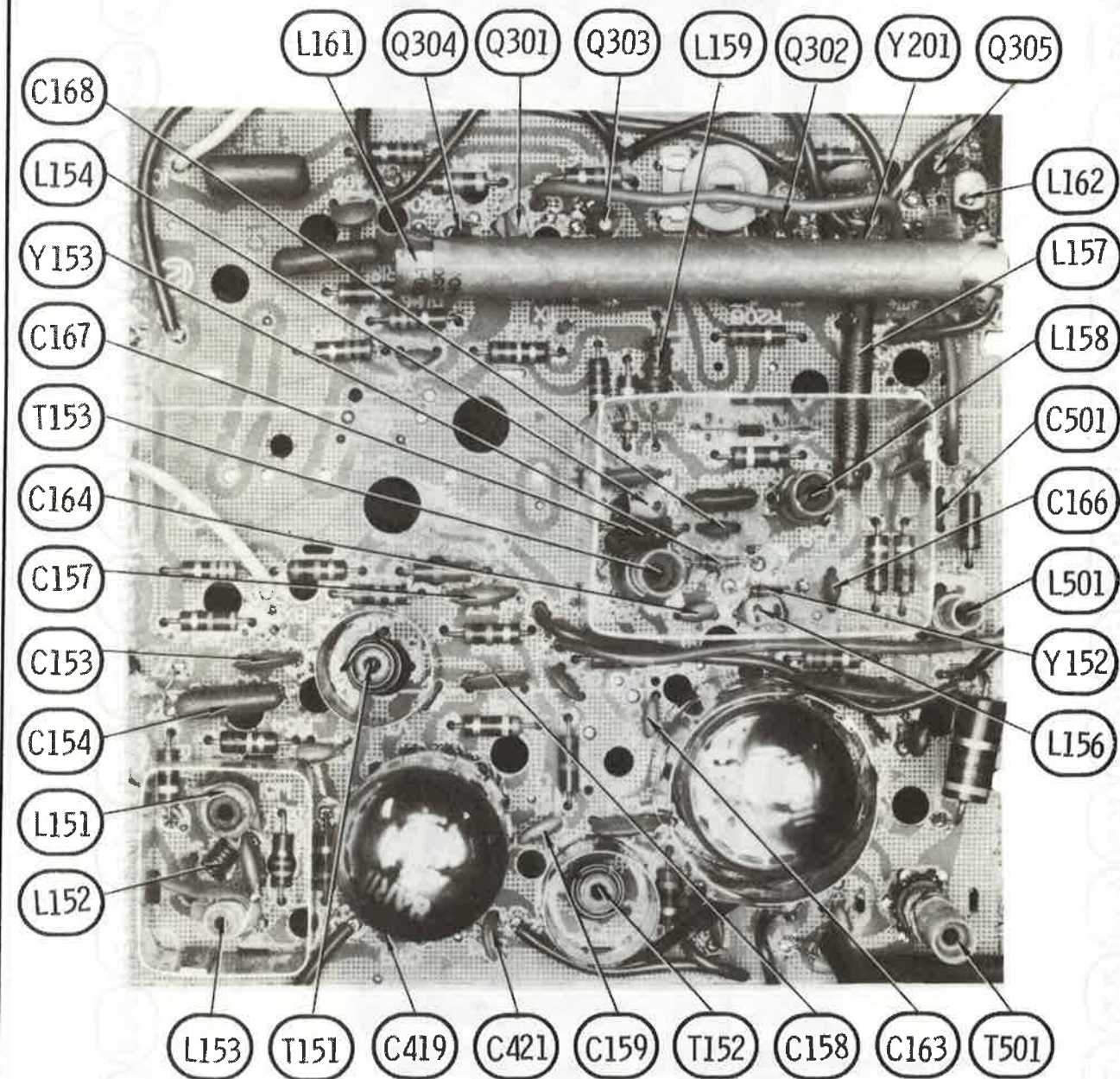
FOLDER 2

SET 1231 FOLDER 2

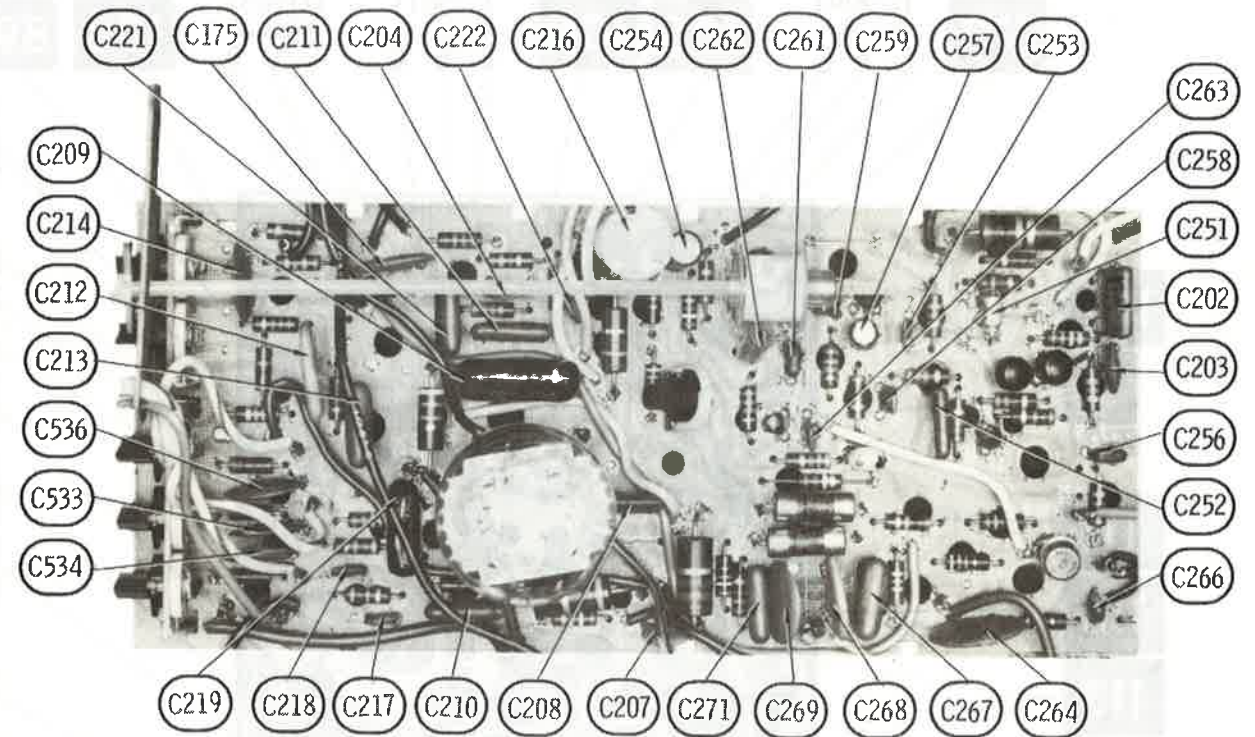






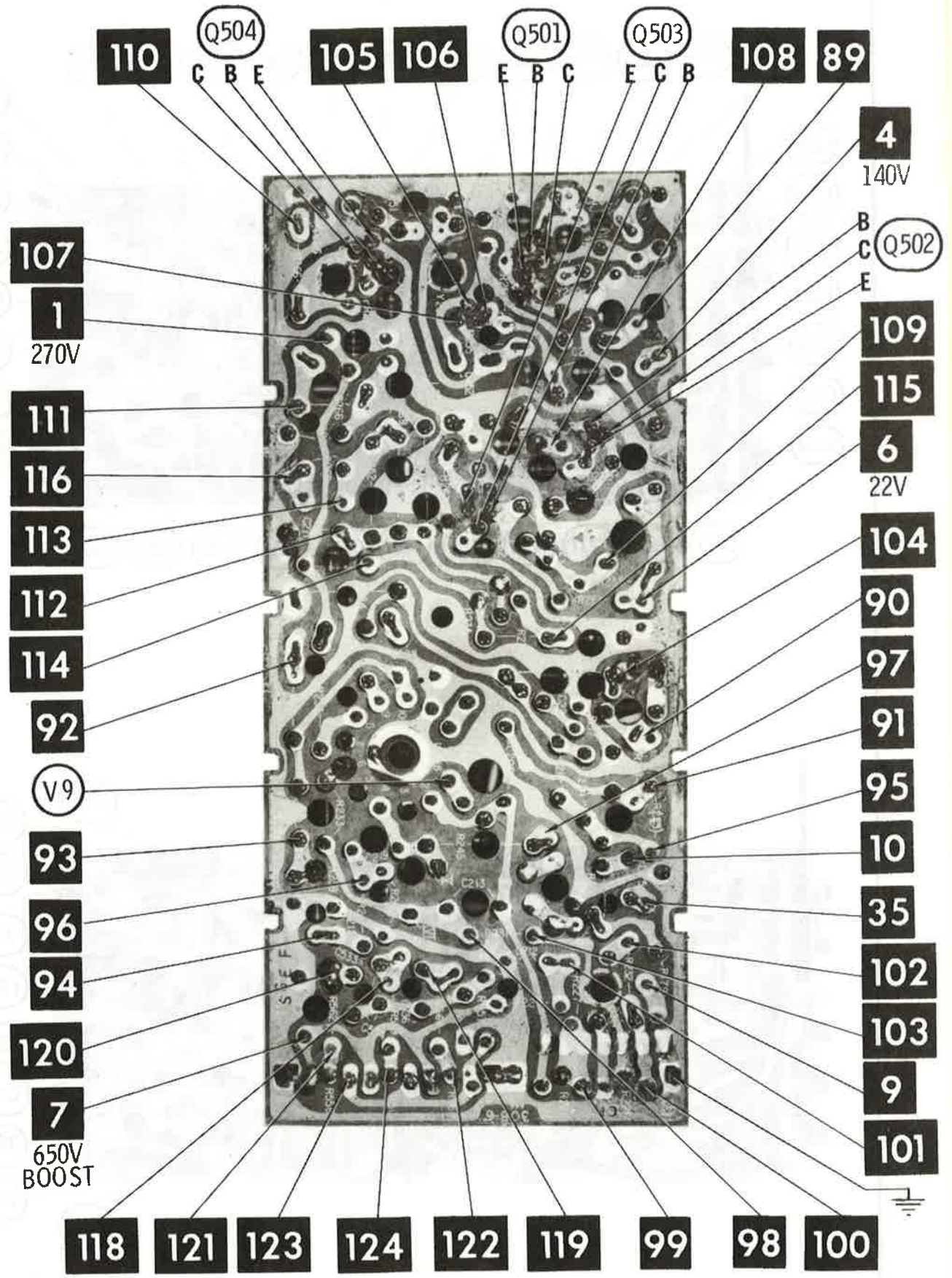


VIDEO BOARD

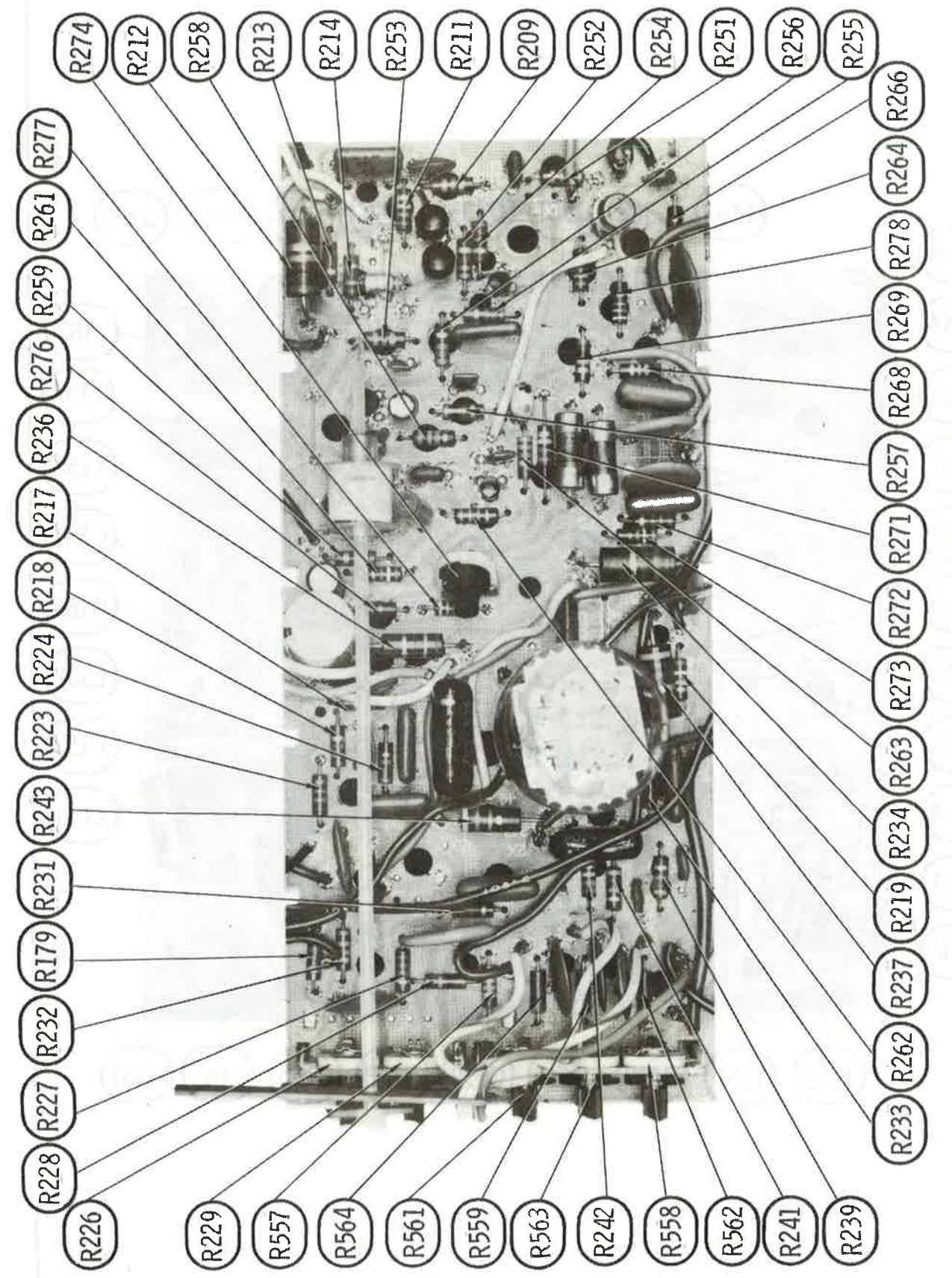


DEFLECTION BOARD



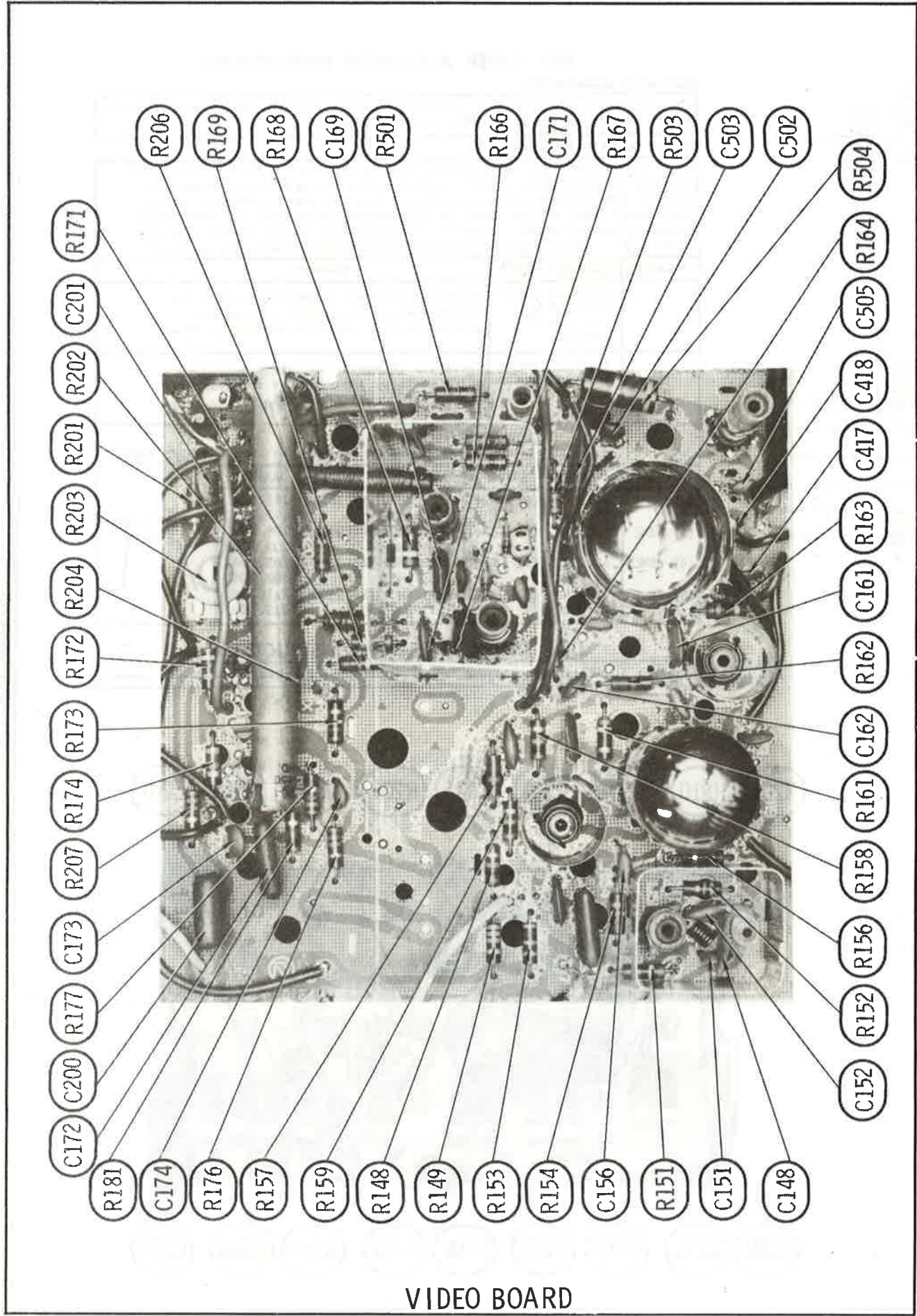


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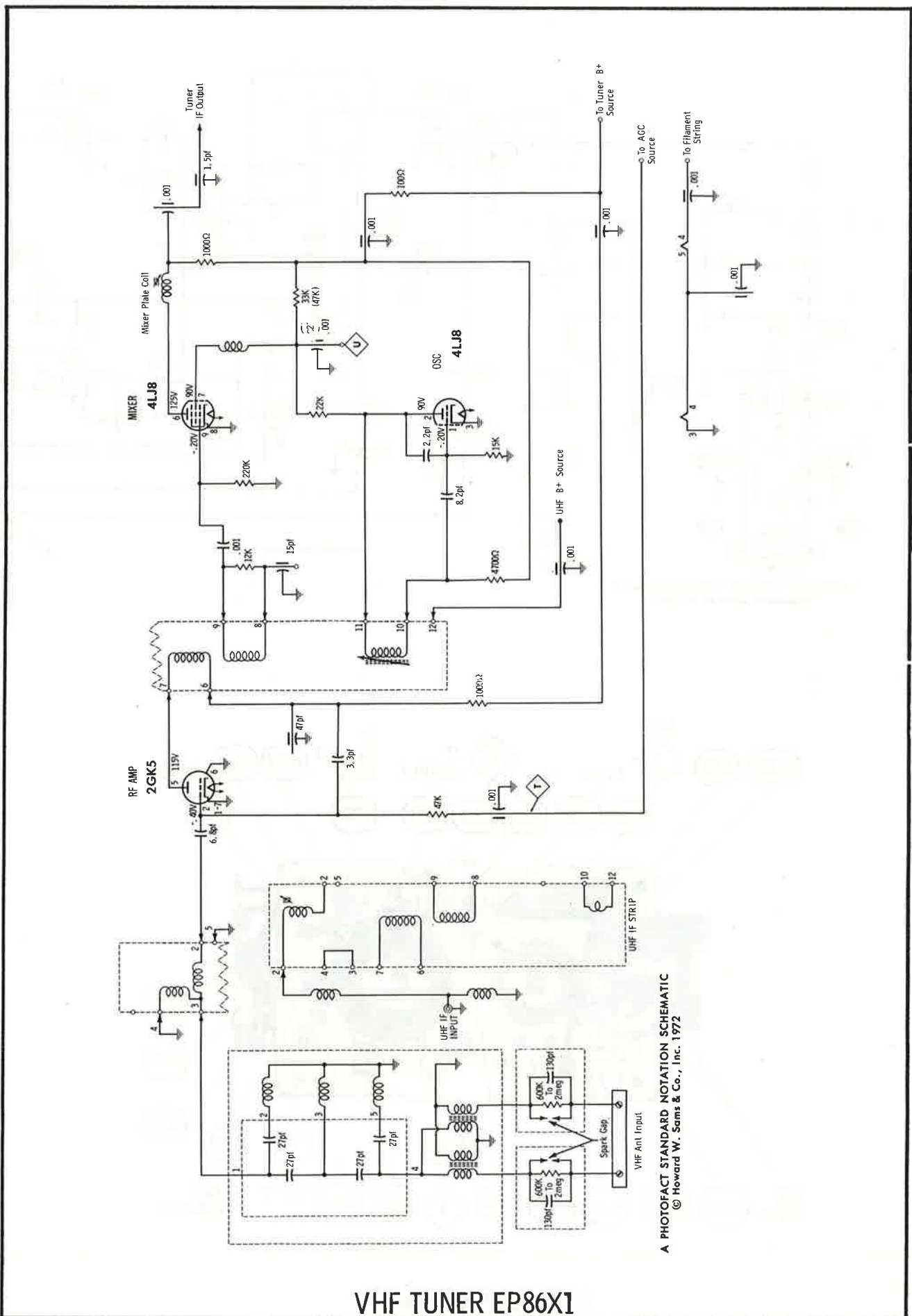
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CHASSIS C-2, L-2





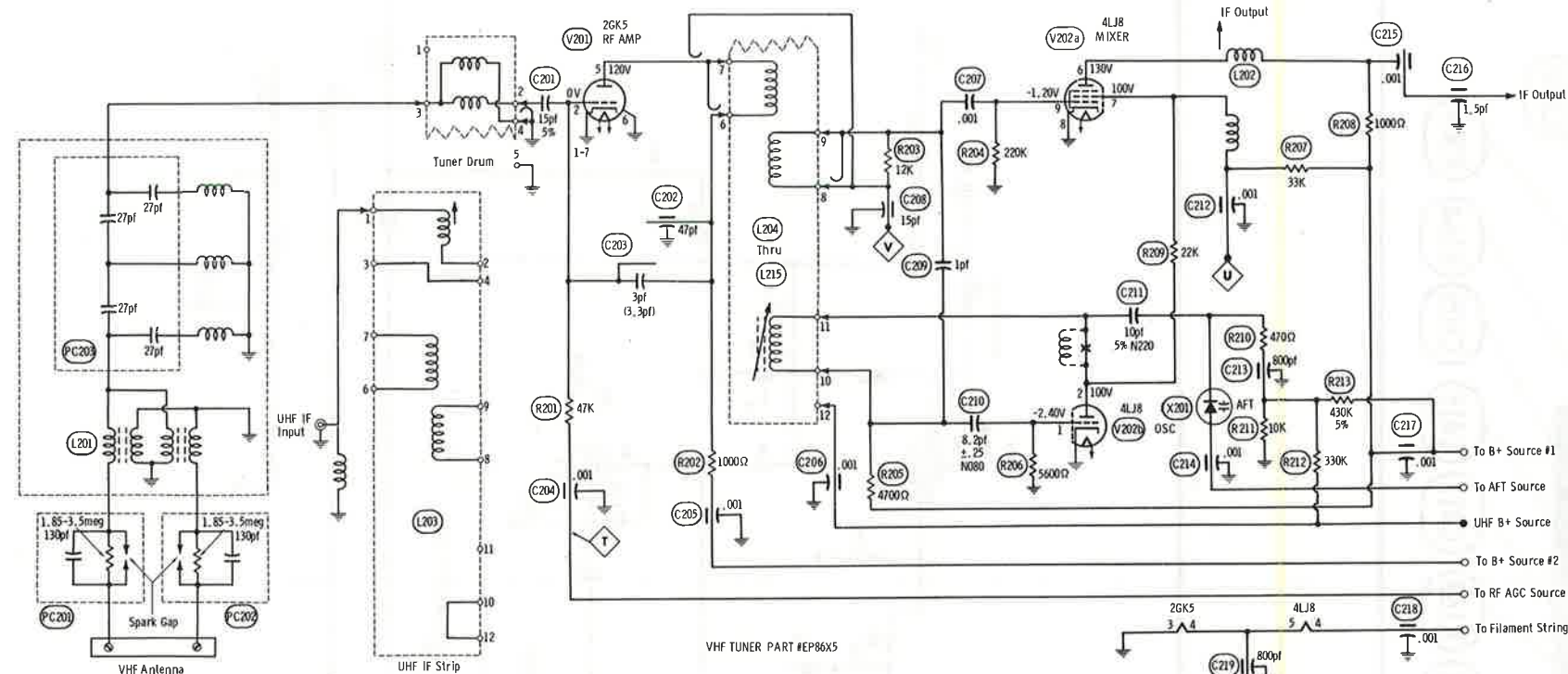
VIDEO BOARD

26

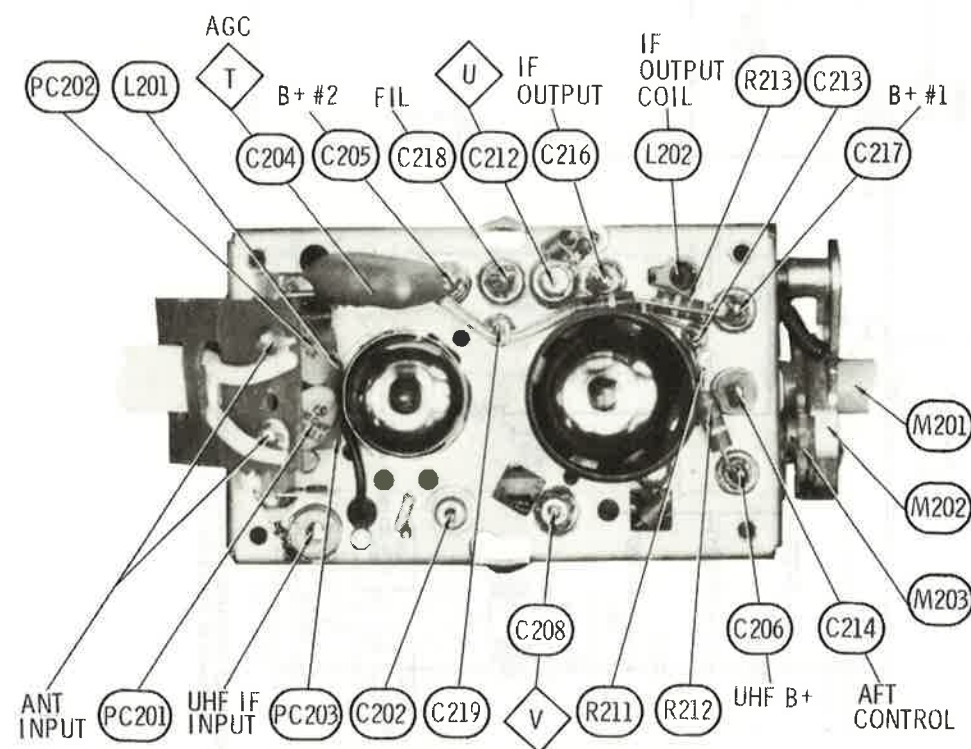


VHF TUNER EP86X1





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VHF TUNER EP86X5

## VHF TUNER ALIGNMENT INSTRUCTIONS

### 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. Use 10MC sweep unless otherwise noted. Connect a variable bias to the RF AGC line at Point  $\nabla$ . Adjust bias to obtain response curve showing no overload.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point $\nabla$ , low side to ground.	Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
12 thru 2	Vertical input to Point $\nabla$ , low side to ground.	Check all channels and make compromise adjustments by expanding or compressing appropriate coils 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
(3) 63MC	59.75MC	(7) 177MC	87.75MC	(11) 201MC	197.75MC
(4) 69MC	61.25MC	(8) 183MC	175.25MC	(12) 207MC	199.25MC
(5) 79MC	65.75MC	(9) 189MC	179.75MC	(13) 213MC	203.75MC
	67.25MC		181.25MC		205.25MC
	71.75MC		185.75MC		209.75MC
	77.25MC		187.25MC		211.25MC
	81.75MC		191.75MC		215.75MC

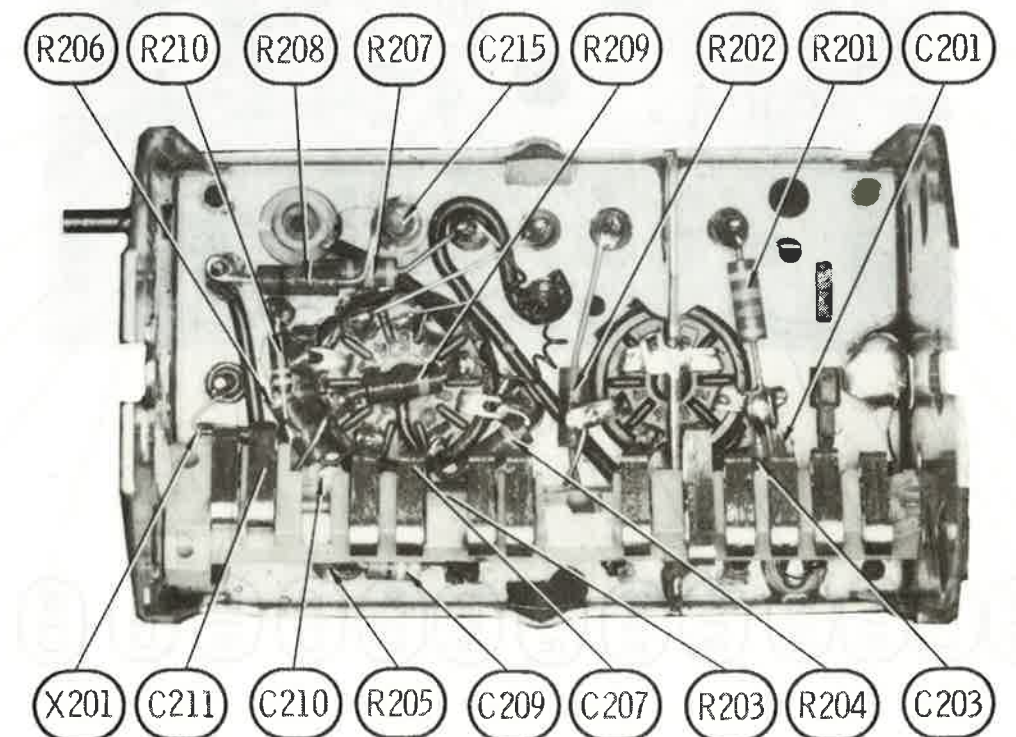
FIG. 201

SOUND VIDEO



## UHF TUNER ALIGNMENT INSTRUCTIONS

Select a UHF station. Adjust UHF IF input coil for best picture and sound.





AFT PARTS LIST AND DESCRIPTION

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

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.
Q351		AFT Amp	EU15X1	GE-17	TR-24	HEP-50	SK3018	ECG 108

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT DATA				NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.	SYLVANIA PART No.	
CR351	EU16X1	1N60			ECG 109	
CR352	EU16X1	1N60			ECG 109	
CR353	EU16X8					

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L350	AFT Input	EU36X13			
T351	AFT Discriminator	EU61X6			

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.
C351	12pf 5% N330	#EU18X7						
C352	47pf 10% N330	#EU18X537						
C353	.005							
C354	.001 10%							
C355	33pf 5% N150	#EU18X8						
C356	.001 10%							
C357	27pf 5% NPO							
C358	27pf 5% NPO							
C359	.001 10%							
C360	.001 10%							
C361	10pf 10% NPO							
C362	2.2pf 10% NPO	#EU18X1						
C363	4pf 10% NPO							
C364	4pf 10% NPO							
C365	.001							
C366	.001							

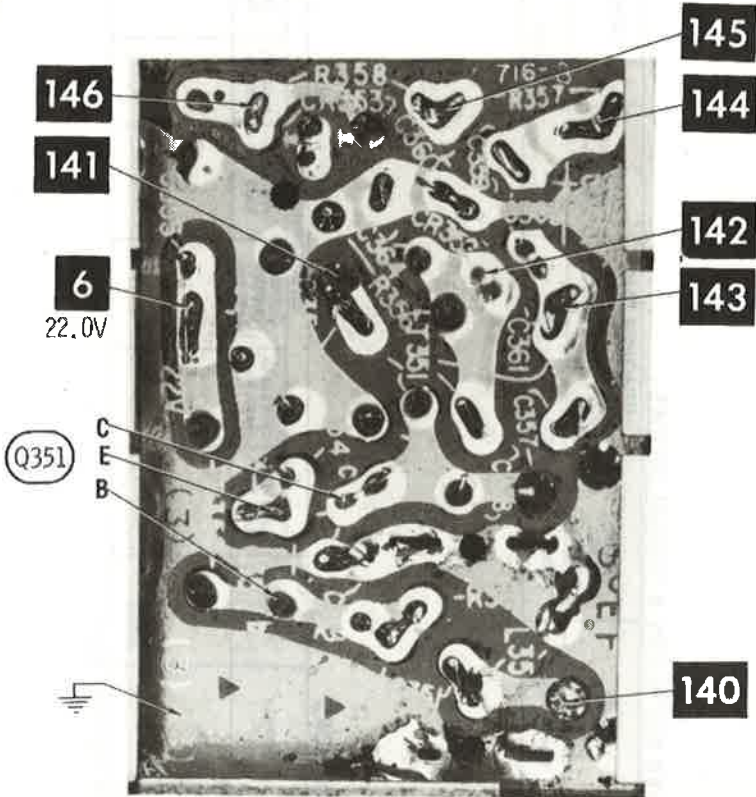
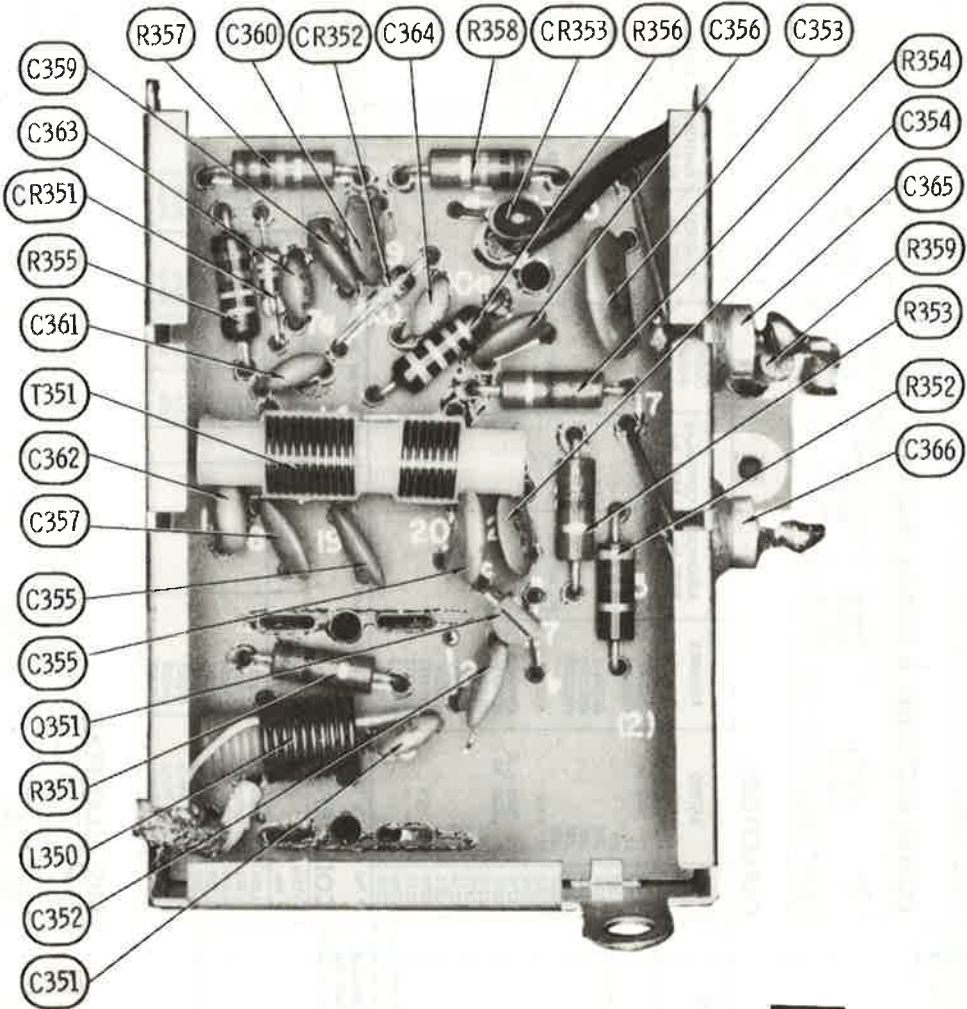
# General Electric Part Number.

ALIGNMENT INSTRUCTIONS

AFT ALIGNMENT

Adjust VTVM for Zero Center Indication. AFT Switch to "ON" Position. Use only enough signal strength for a useable indication.

GENERATOR COUPLING	GENERATOR FREQUENCY	CONNECT VTVM	ADJUST	REMARKS
Thru .001mfd capacitor to Point ①, low side to ground.	45.75MC	DC probe thru 47K to Point ②, common to ground.	A19	Adjust for Zero Center Indication.
"	"	"	A20,A21	Adjust for maximum.
"	"	"		Adjust for Zero Center Indication. If necessary, repeat above procedure.



AFT BOARD

A Howard W. Sams CIRCUITRACE Photo

GENERAL ELECTRIC  
CHASSIS C-2, L-2

FOLDER 2



UHF TUNER PARTS LIST AND DESCRIPTION  
(When ordering parts, state Model, Part Number, and Description.)

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA			
			MFGR. PART No.	GENERAL ELECTRIC PART No.	MOTOROLA PART No.	SYLVANIA PART No.
Q301		UHF Oscillator	E015Y2	6E-11	TR-22	HEP56
						SK3019
						ECG 108

TRANSISTORS

VHF TUNER PARTS LIST AND DESCRIPTION  
(When ordering parts, state Model, Part Number, and Description.)

ITEM No.	TYPE	GENERAL ELECTRIC		ITEM No.	USE	SYLVANIA TYPE
		AMPEREX	RCA			
V201	RF Amp			V202	Mixer - Oscillator	4LJ8

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT DATA		NOTES
		GENERAL ELECTRIC PART No.	RCA PART No.	
X201	EP16X8			Varactor

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT DATA		NOTES
		GENERAL ELECTRIC PART No.	SYLVANIA PART No.	
X301	E016X14 (1N82A)	1N82A	SK3089	ECG 112
X302				Varactor

CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNEILL-DUBIER PART No.	REPLACEMENT DATA		SPRAGUE PART No.
		GENERAL ELECTRIC PART No.	SYLVANIA PART No.					ELMENDO PART No.	MALLORY PART No.	
C201	15 500V 5%			#EU23X28	NP0-DI 3.0	DTZ-15	NP015		CN0415	10TCC-Q15
C202	47 500V 5%			#EU23X13						10TCC-V30
C203	30 500V 5%			#EU23X13						
C204	100 500V 5%			#EU23X13						
C205	100 500V 5%			#EU23X13						
C206	100 500V 5%			#EU23X13						
C207	100 500V 5%			#EU23X13						
C208	15 N330			#EU23X7						
C209	1.2 N330 ±.25			#EP184605						
C210	10 N220 5%			#EU23X13						
C211	100 500V 5%			#EU23X13						
C212	100 500V 5%			#EU23X13						
C213	100 500V 5%			#EU23X13						
C214	100 500V 5%			#EU23X13						
C215	100 500V 5%			#EU23X13						
C216	1.5 ±.5			#EU23X13						
C217	100 500V 5%			#EU23X13						
C218	100 500V 5%			#EU23X13						
C219	800			#EP63X1						

CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNEILL-DUBIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
		GENERAL ELECTRIC PART No.	SYLVANIA PART No.							
C301	33 N220			#EU23X3						
C302	1.5			#EU23X5						
C303	100									
C304	100									
C305	100									
C306	100									
C307	470									

# General Electric Part Number.

COILS (RF-IF)

ITEM No.	USE	MFGR. PART No.	NOTES	ITEM No.	USE	MFGR. PART No.	NOTES
L201	Antenna Balun	ET37445		L209	Ch. 7 Strip	EP62X10	
L202	IF Output	EU96X832		L210	Ch. 8 Strip	EP62X11	
L203	UHF Ch. Strip	EP62X4		L211	Ch. 9 Strip	EP62X12	
L204	Ch. 5 Strip	EP62X5		L212	Ch. 10 Strip	EP62X13	
L205	Ch. 5 Strip	EP62X6		L213	Ch. 11 Strip	EP62X14	
L206	Ch. 4 Strip	EP62X7		L214	Ch. 12 Strip	EP62X15	
L207	Ch. 5 Strip	EP62X8		L215	Ch. 13 Strip	EP62X16	
L208	Ch. 6 Strip	EP62X9					

\* Not normally in distributor's stock. Available thru distributor on order to manufacturer. # General Electric Part Number.

MISCELLANEOUS

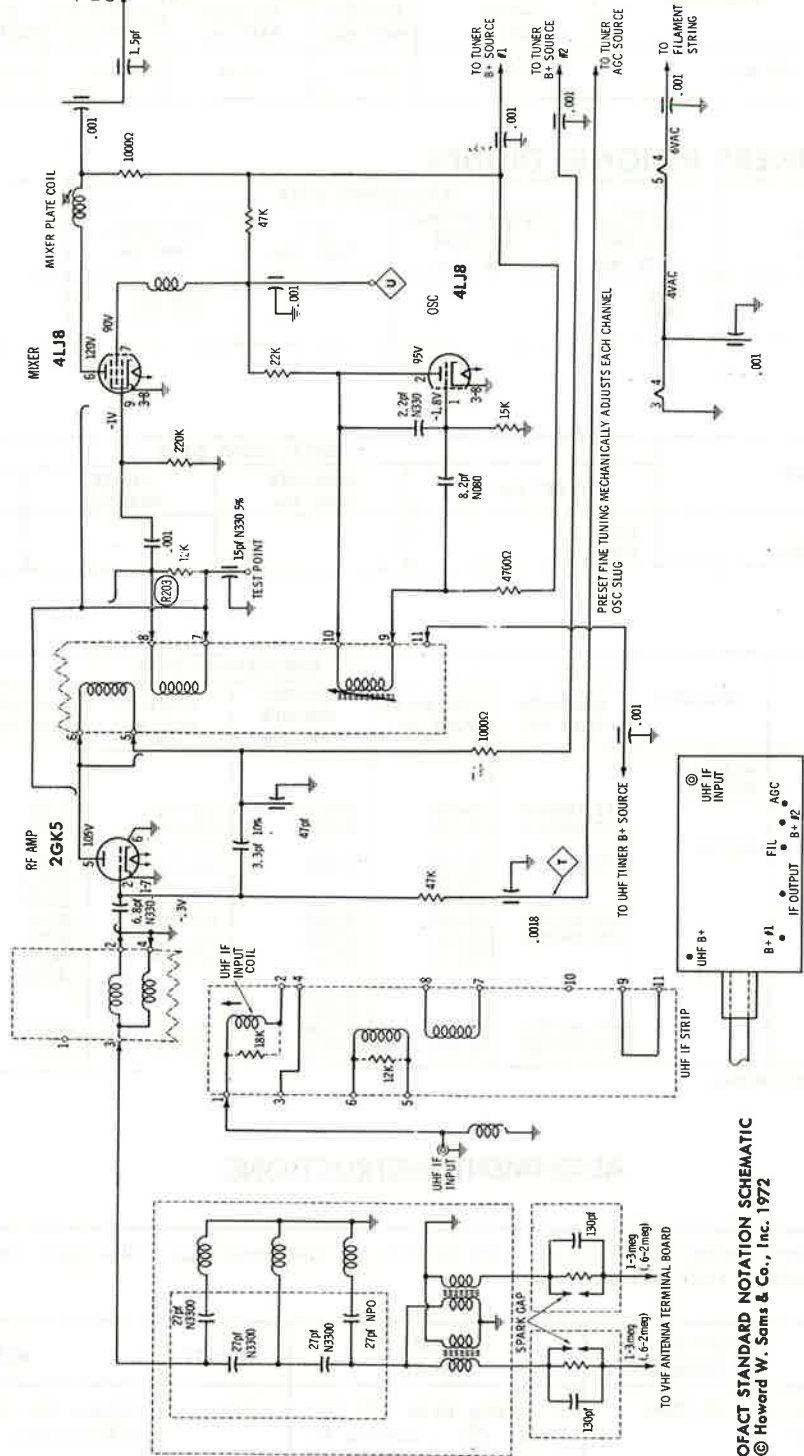
ITEM No.	PART NAME	PART No.	NOTES
M201	Shaft	EP69X3	
M202	Mixer Gear	EU23X35	
M203	Component Combination	EU23X13	
PC201	Component Combination		
PC202	Component Combination		
PC203	Component Combination		

COILS (RF-IF)

ITEM No.	USE	MFGR. PART No.	NOTES
L301	Choke	EU38X14	

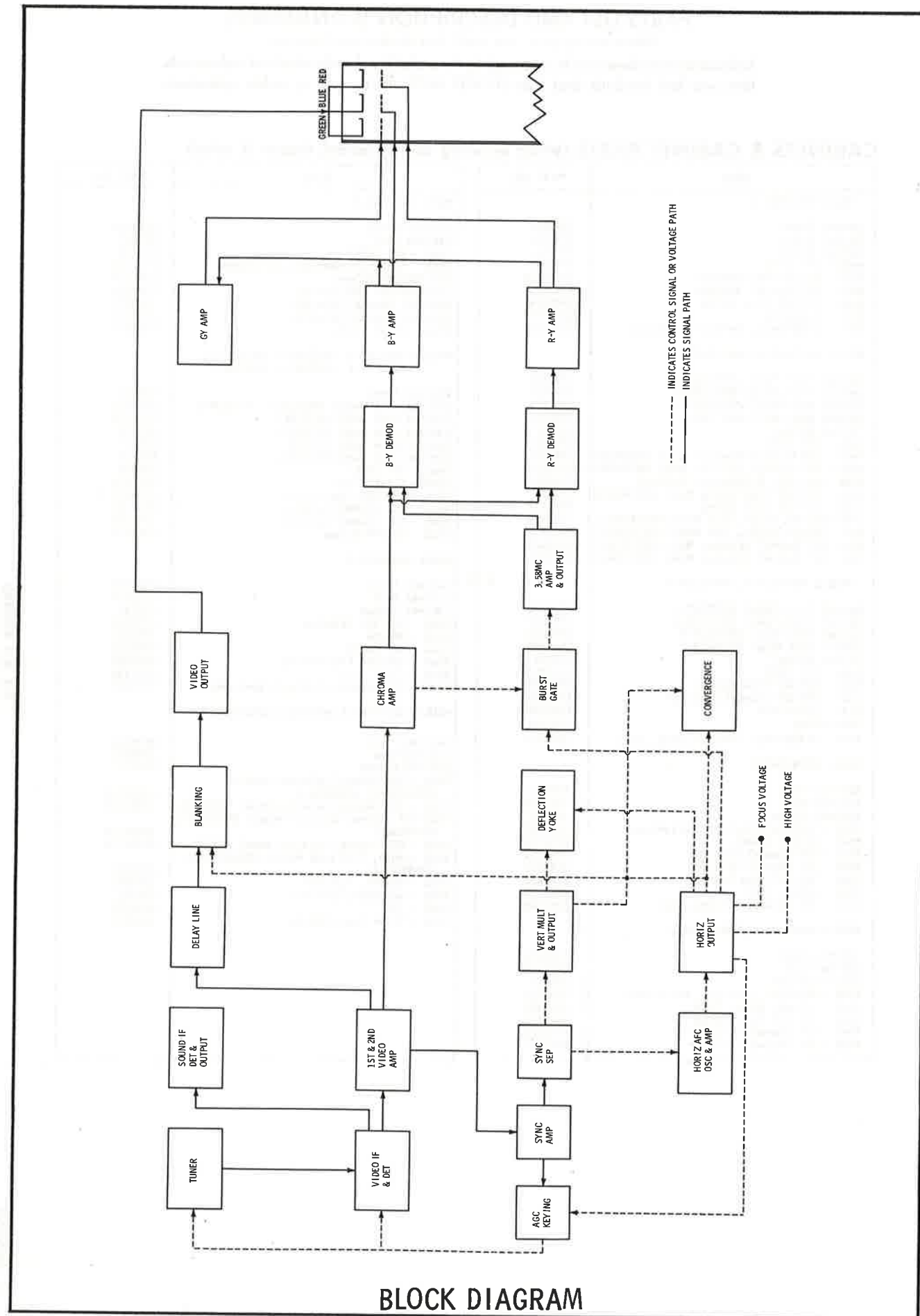
Antenna Isolation (130pf, 1.85-3.5meg, Spark Gap)  
CENTRALAB Replacement #DA661Z5R  
Antenna Isolation (130pf, 1.85-3.5meg, Spark Gap)  
CENTRALAB Replacement #DA661Z5R  
Antenna Input (27pf, 27pf, 27pf, 27pf)

VHF TUNER EP86X2



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## 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.

### 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

### TUBES

AMPEREX			GENERAL ELECTRIC			RCA			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V3	1st Video IF-2nd Video IF	8AR11	V8	G-Y Amp - B-Y Amp - R-Y Amp	6AC10						
V4	3rd Video IF - Chroma Bandpass Amp.	8CB11	V9	Vert Mult - Vert Output	16LUBA						
V5	Sound IF - Video Output	8AL9	V10	Horiz Output	26HU5						
V6	Audio Det.-Audio Output	12BF11	V11	Damper	19CG3						
V7	Burst Gate - 3.58MC Output	6AU8	V13	HV Rect	3DH3 (3DS3)*						

\* Alternate used in some versions.

### PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V12	23VACP22 or 23VANP22 20VASP22 19VBWP22 18VBHP22	23VACP22 23VBNP22 19HXP22	H-23VALP22 (1) H-23VANP22 (1) H-23VARP22 (1) 19VBRP22 (2)	XR23VAQP22 (3)	(1) H1-Lite (2) H1-Lite Matrix (3) Color Bright 85

### TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA				
			MFGR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	SYLVANIA PART No.
Q301		1st Video Amp	EP15X1	GE-17	TR-25	HEP736	SK3018
Q302		AGC Keying	EP15X2	GE-20	TR-21	HEP54	SK3020
Q303		Sync Amp	EP15X3	GE-18	TR-25	HEP714	SK3020
Q304		2nd Video Amp	EP15X4	GE-21	TR-19	HEP51	SK3025
Q305		Blanking	EP15X5	GE-18	TR-19	HEP714	SK3020
Q401		3.58 MC Amp	EP15X6	GE-17	TR-21	HEP55	SK3018
Q501		Sync Separator	EP15X7	GE-17		HEP736	SK3020
Q502		Horizontal AFC Amp	EP15X8	GE-17		HEP53	SK3020
Q503		Horizontal Oscillator	EP15X9	GE-17		HEP736	SK3018
Q504		Horizontal Amp	EP15X10			HEP714	SK3020
Y202		Reference	(1)	GE-17		HEP53	SK3020

(1) Collector Lead Clipped, Transistor used as diode. Diode Part #EP16X7 or EP16X27.

### 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.	
Y152	EP16X3	1N60	1N60	ECG 109	SK3088	(3) A single unit replacement for both rectifiers.
Y153	EP16X3	1N60	1N60	ECG 109	SK3088	
Y201	EP16X4	GE-504A	804 or 5A4-D	ECG 116 or ECG 117	SK3030 or SK3031	
Y251	EP16X6	6GC1	DD04	ECG 113		
Y252	EU57X31	GEGR-2	61-8968	ECG 119		
Y253	EU57X31	GEGR-2	61-8968	ECG 119		
Y256	EU57X32	GEGR-1	61-8969	ECG 118	SK3066	
Y402	EP57X1	GE-504A	804 or 5A4-D	ECG 116 or ECG 117	SK3017A	
Y403	EP57X1	GE-504A	5A6-D or 90D6A (3)	ECG 116 or ECG 117	SK3017A	
Y404	EP57X1	GE-504A	5A6-D or 90D6A (3)	ECG 116 or ECG 117	SK3017A	
Y405	EP16X2	GEZD-27	1ZM20-T10			Zener Varactor (4) Matched pair.  + 3 Required
Y501	EU30X87					
Y502	EP16X21	1N60	1N60	ECG 110 (4)	SK3088	
Y503	EP16X21	1N60	1N60	ECG 110 (4)	SK3088	
Y504	EP16X21	1N60	1N60	ECG 110 (4)	SK3088	
Y505	EP16X21	1N60	1N60	ECG 110 (4)	SK3088	
CR801	EU57X38	GEGR-3	CD-07 or 804+	ECG 120 ECG116+		



## 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.
C179	50 15V	EP31X10	BCD15050	EP15-50	PC50-16	MT1-16	MTV50CB15	TE-1160
C216	30 150V		PRS1460		WBR30-150	QT1-13	TC47A	TVA-1412
C254	50 150V	EP31X13 (3)						
C257	30 25V	EP31X12	CRE613A	EP30-25	PC30-50	MT1-13.5	MTV30CB25	TE-1207.5
C314	5 25V	EP31X11	BCD25005	EP30-5	PC5-100	MT1-3	MTV5CB50	TE-1202
	10 200V	EP31X9	PRS1620		WBR10-500	QT1-6	TC52A	TVA-1504
C402	250 175V	EP31X1						
	100 350V							
	80 300V							
	100 150V							
C405	500 200V	EP31X8	AFH1-25-95 (1)			XC1-25.2 (1)	WP123A (1)	TVL-1490 (1)
			(2)			(2)	(2)	(2)
C406	350 350V	EP31X7	AFH1-43-80 (1)		AA0417A (1)			TVL-1645 (1)
C526	1 25V	EP31X14	BCD50001		PC1-100	MT1-1	MTV1CB50	TE-1200

(1) Use Printed Circuit Adapter Kit. (2) Use Insulated Sleeve. (3) Alternate used in some versions.

## CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C148	200 500V 5%		V1612P22	DTZ-200	DPMS2P22	2DP-4-224	PVC2022	2PS-P22
C149	.22 200V							
C151	800 500V	#EP22X3		DD-801		CCD-801		
C152	27 NPO 5%			TCZ-27			CN0427	10TCC-Q27
C153	.0022 500V 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C154	.1 100V		DBE2P1		DPMS2P1	1DP-2-104	PVC101	225P10491WD3
C156	470 10%		GPD X5F471K	DD-471	GP470	CCD-471	GP347	10TS-T47
C157	.0022 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C158	.0022 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C159	820 10%		GPD X5F821K	DD-821	GP820	CCD-821	GP382	10TS-T82
C161	.0022 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C162	800 10%	#EP22X3		DD-801		CCD-801		
C163	560 10%		GPD X5F561K	DD-561	GP560	CCD-561	GP356	10TS-T56
C164	1.5 NPO +25%		NPO-DI 2.2	DTZ-2R2	NPO2P2		CN0522	10TCC-V22
C166	10 NPO 10%	#EP18X7	NPO-DI 10			CCD-100		
C167	330 5%		GPD X5F331K	DD-331	GP330	CCD-331	GP333	10TS-T33
C168	10 NPO 10%		NPO-DI 10			CCD-100		
C169	200 NPO 10%	#EP20X2		DTZ-200			JL332	
C171	.0018 10%		GPD X5F182K	DD-182	GP1800	CCS-182	GP218	10TS-D18
C172	.1 100V		DBE2P1		DPMS2P1	1DP-2-104	PVC101	225P10491WD3
C173	800 10%	#EP22X3		DD-801		CCD-801		
C174	470 10%		GPD X5F471K	DD-471	GP470	CCD-471	GP347	10TS-T47
C175	.005 10%		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C176	.0015 10%		GPD X5F152K	DD-152		CCD-152	GP215	10TS-D15
C177	.0033 10%		GPD X5R332K	DD-332	GP3300	CCD-332	JF233	10TS-D33
C178	.005 10%		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C182	.68pF NPO 5%		GPD X5F680K	DD-680	NP068	CCD680	GP468	10TS-Q68
C200	.22 100V		V1612P22		DPMS2P22	1DP-3-224	PVC1022	2PS-P22
C201	800 10%	#EP22X3		DD-801		CCD-801		
C202	.047 100V 10%		V1612S47		DPMS6S47	1DP-2-473	PVC1147	225P47391WD3
C203	.0022 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C204	.0022 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C207	.0022 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C208	390 10%	#EP20X4						
C209	.033 600V 10%		DBE6S33		DPMS-6S33	6DP-3-333	PVC6133	6PS-S33
C210	.0047 200V 10%		V1612D47		DPMS6D47	6DP-1-472	PVC6247	6PS-D47
C211	.022 400V 10%		DBE6S22	CPR-4700J	DPMS6S22	4DP-2-223	PVC6122	4PS-S22
C212	.01 1KV		BE10S1					
C213	.047 400V		DBE6S47		DPMS6S47	4DP-3-473	PVC4147	4PS-S47
C214	.005 10%		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C217	680 10%		GPD X5F681K	DD-681	GP680	CCD-681	GP368	10TS-T68
C218	680 10%		GPD X5F681K	DD-681	GP680	CCD-681	GP368	10TS-T68
C219	.0082 600V 10%		DBE6D82		DPMS6D82	6DP-2-822	PVC6282	6PS-D82
C220	.0018 2KV							
C221	.033 400V 10%		DBE6S33		DPMS6S33	4DP-2-333	PVC6133	4PS-S33
C222	.001 10%		GPD X5F102K	DP-102	GP1000	CCD-102	GP210	10TS-D10
C251	820 125V 10%				CD19F821J500	DM-19-821	SX382	MS-382
C252	.0012 100V 10%		DBE6D12		DPMS6D12	6DP-1-122	PVC6212	6PS-D12
C253	.0033 50V		DBE6D39	CPR-3900J	DPMS6D39	6DP-1-392	PVC6239	6PS-D39
C256	.0068 50V 10%		V1612D68	CPR-6800J	DPMS6D68	6DP-1-692	PVC6268	6PS-D68
C258	.01 50V 10%		V1612S1	CPR-10000J	DPMS6S1	1DP-1-103	PVC211	225P10391WD3
C259	.027 50V 10%		DBE6S27		DPMS6S27	6DP-3-273	PVC6127	6PS-S27
C261	.0068 10%		GPD X5R682K	DD-682		CCD-682	JF268	10TS-D68
C262	.0022 125V 10%		GPD X5F222K	DD-222	GP2200	CCD-222	GP222	10TS-D22
C263	.01 50V 10%		V1612S1	CPR-10000J	DPMS6S1	1DP-1-103	PVC211	225P10391WD3
C264	.01 10%		GPD X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C266	270 10%		GPD X5F271K	DD-271	GP271	CCD-271	GP327	10TS-T27
C267	.047 400V		DBE6S47		DPMS6S47	4DP-3-473	PVC4147	4PS-S47
C268	.005 1KV		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C269	.005 10%		GPD X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C271	.047 200V 10%		DBE6S47		DPMS6S47	4DP-3-473	PVC4147	4PS-S47
C272	.068 1KV 10%	#EP26X1	BE10S68					
C273	.1 400V		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C274	200/5KV/N2200/10%	#EP22X15						
C275	.1 400V		DBE4P1		DPMS4P1	4DP-3-104	PVC401	4PS-P10
C276	.0012 1KV 10%		GPD X5F122K	DD-122	GP1200	CCD-122	GP212	10TS-D12
C278	.0039 3KV (1)	#EP22X13						
C279	130 6KV N2200	#EP22X10						
C280	.0068 10%		GPD X5R682K	DD-682		CCD-682	JF268	10TS-D68
C282	260/2.5KV/N330/10%	#EU18X59				*	*	

## 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.

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

ITEM	PART No.	ITEM	PART No.
MODEL WM270CBW-2		MODEL M810CWD-2	
Cabinet Front	EP99X46	Cabinet Front	EP99X29
Cabinet Back	EP97X43	Cabinet Back	EP98X9
Cabinet Bottom	EP91X3	Knob - AFT (AFC)	EP4X26
Knob - AFT (AFC)	EP4X26	Knob - Vertical, Contrast, Brightness	EP43X27
Knob - VHF Channel Selector	EP43X110	Knob-On-Off-Volume	ES43X54
Knob - UHF Channel Selector	EP43X111	Knob-UHF-VHF Fine Tuning	EP43X74
Knob - UHF-VHF Fine Tuning	EP43X74	Knob-UHF Channel Selector	EP43X73
Knob - Secondary	ES43X54	Knob-UHF Channel Selector	EP43X72
Knob - Brightness, Vertical, Contrast	EU43X32	Knob - Color, Tint	EP43X75
MODELS WM274CWD-2, WM277CWD-2		MODELS M910LWD-2, M911LMP-2, M913LPN-2, M916LPN-2, M930LWD-2, M931LMP-2	
Cabinet Front Model WM274CWD-2	EP99X30	Cabinet Front	EU99X9
Cabinet Front Model WM277CWD-2	EP99X36	Cabinet Back Models M930LWD-2, M931LMP-2	EP98X12
Cabinet Back Model WM274CWD-2	EP97X24	Cabinet Back Model M916LPN-2	EP98X10
Cabinet Back Model WM277CWD-2	EP97X25	Cabinet Back Model M910LWD-2	EP98X6
Cabinet Bottom	EP91X3	Cabinet Back Model M911LMP-2	EP98X7
Knob - AFT (AFC)	EP4X26	Cabinet Back Model M913LPN-2	EP98X8
Knob - UHF Channel Selector Model WM274CWD-2	EP43X77	Knob - AFT (AFC)	EP4X26
Knob - UHF Channel Selector Model WM277CWD-2	EP43X73	Knob - Color, Tint	EP43X75
Knob - Vertical, Brightness, Contrast	EP43X27	Knob - UHF-VHF Fine Tuning	EP43X32
Knob - VHF-UHF Fine Tuning Model WM274CWD-2	EP43X32	Knob - VHF Channel Selector	EP43X83
Knob - VHF-UHF Fine Tuning	EP43X74	Knob - UHF Channel Selector	EP43X84
Knob - Volume, Color, Tint Model WM274CWD-2	EP43X35	Knob - On-Off-Volume	EP43X35
Knob - Volume, Color, Tint Model WM277CWD-2	EP43X54		
Knob - VHF Channel Selector Model WM274CWD-2	EP43X76	MODEL WM266CWD-2	
Knob - VHF Channel Selector Model WM277CWD-2	EP43X72	Cabinet Front	EP99X12
		Cabinet Back	EP97X16
MODELS WM279CCT-2, WM279CEA-2		Cabinet Bottom	EP91X3
Cabinet Front Model WM279CCT-2	EP99X31	Knob - UHF-VHF Selector	EP43X53
Cabinet Front Model WM279CEA-2	EP99X32	Knob - Volume	EP43X54
Cabinet Back Model WM279CCT-2	EP97X25	Knob - AFT (AFC)	EP43X52
Cabinet Back Model WM279CEA-2	EP97X26	Knob - UHF-VHF Fine Tuning	EP43X55
Cabinet Bottom	EP91X3	Knob - Color Tint	EP43X35
Knob - AFT (AFC)	EP43X52	Knob - Brightness, Contrast, Vert. Hold	EP43X27
Knob - UHF-VHF Fine Tuning	EP43X55		
Knob - UHF-VHF Channel Selector	EP43X53	MODELS WM381CWD-2, WM382CWD-2, WM383CWD-2	
Knob - Color Tint	EP43X35	Cabinet Front	EP99X48
Knob - Volume	EP43X54	Cabinet Back	EP98X13
Knob - Brightness, Contrast, Vert. Hold	EP43X27	Cabinet Bottom	EP91X3
		Knob - VHF Channel Selector Models	
MODEL CBM261CWD-2		WM381CWD-2, WM382CWD-2	EP43X113
Cabinet Front	EP99X12	Knob - VHF Channel Selector Model WM383CWD-2	EP43X114
Cabinet Back	EP97X19	Knob-UHF Channel Selector Models WM381CWD-2, WM382CWD-2	
Cabinet Bottom	EP91X3	WM383CWD-2	EP43X115
Knob - Vertical, Contrast, Brightness	EP43X27	Knob - UHF Channel Selector Model WM383CWD-2	EP43X116
Knob - On-Off-Volume	EP43X35	Knob - Auto, Tint Lock Models WM382CWD-2, WM383CWD-2	
Knob - UHF Channel Selector	EP43X31	Knob - On-Off, Push Bar	EU43X50
Knob - VHF Channel Selector	EP43X29	Knob - Secondary Controls	EU43X3
Knob - VHF-UHF Fine Tuning	EP43X32	Knob - Tint	EU43X47
Knob - Color, Tint	EP43X35	Knob - Slide Type, Volume	EU43X45
Knob - VHF Selector, Fiddle Free	EP43X58		
MODELS WM264CWD-2, CBM264CWD-2			
Cabinet Front	EP99X12		
Cabinet Back	EP97X16		
Cabinet Bottom	EP91X3		
Knob - Vertical, Contrast, Brightness	EP43X27		
Knob - Volume, Color, Tint	EP43X55		
Knob - UHF-VHF Fine Tuning	EP43X32		
Knob - VHF Channel Selector	EP43X29		
Knob - UHF Channel Selector	EP43X31		



## PARTS LIST AND DESCRIPTION (CONTINUED)

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

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## TRANSFORMERS (Sweep Circuits)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L201	Yoke Horiz. 13mh 90° Vert. 25mh Yoke Alternate Yoke Alternate Yoke Alternate Vertical Output	EU76X11 EP76X2 EP76X6 (2) EP76X7 (3) EP64X6 (23C220648-2) EP77X9 EP77X1	DY91AC (1) & YA-4	Y108 (1)	YC-310-2 (1)	(1) See Sweep Component Connection data. (2) Used in some sets using 23" CRT. (3) Used in some sets using 18", 19" and 20" CRT.
T201						
T252	Horiz. Output Horiz. Output (Alternate)					

## SWEEP COMPONENT CONNECTION DATA

ORIGINAL →	YOKE										YOKE PLUG									
	Original Connections										1	2	3	4	5	6	7	8		
REPLACEMENT ↓	Ye1	Grn	Blk	Wh	Pur	Brn	Red	Blu			TO YOKE TERMINALS									
STANCOR	NO WIRING CHANGE										Ye1	Ye1 & Blk	Wh	Wh & Red	Vio	*	Red	Blu		+
THORDARSON	Ye1	Ye1 & Blk	Wh	Wh & Red	Vio	*	Red	Blu			Ye1	Ye1 & Blk	Wh	Wh & Red	Vio	*	Red	Blu		+
TRIAD	4	6	9	11	5	*	1	3			4	6	9	11	5	*	1	3		+

\* Duplicate original Horizontal Damping Network. / Use Original Mounting Clamp and Plug. + Rotate Yoke 180°

## TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T301	2592	8	EP64X4 (73B140037-3)				

## SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
LS1	4" PM 8 ohms 4" PM 8 ohms 5 1/4" PM 8 ohms	EU95X36 ES95X5 EU95X49	4A1Z8	Used in all Models except Models WM270CBW-2, WM381CWD-2, WM382CWD-2, WM383CWD-2. Used in Model WM270CBW-2 Used in Models WM381CWD-2, WM382CWD-2, WM383CWD-2

## 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	
F400	Wire Link with Insulating Sleeve	EP10X1							
F401	.5 Amp, 250V, Quick Acting	EP10X3	ET3X537	AGC - 1/2	5682-44	312.500	s21001.		
F403	Circuit Breaker Hold Current 2.4A Break Current 4A	EP10X2 (EP10X9) *				815004		FA 4	
F404	Thermal Cutout	EP10X6							

\* Alternate circuit breaker used in some versions.

## MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
	VHF Antenna	EP83X2	Used in Models CBM264CWD-2, MB10CWD-2, WM264CWD-2, WM266CWD-2, WM270CBW-2, WM274CWD-2, WM277CWD-2, WM279CCT-2, WM279CEA-2
	VHF Antenna	EP83X5	Used in Models WM381CWD-2, WM382CWD-2, WM383CWD-2
	UHF Antenna	EP83X1	JFD Replacement TA433 used in Models CBM264CWD-2, MB10CWD-2, WM264CWD-2, WM266CWD-2, WM270CBW-2, WM274CWD-2, WM277CWD-2, WM279CCT-2, WM381CWD-2, WM382CWD-2, WM383CWD-2
	VHF Tuner	EP86X1	
	VHF Tuner	EP86X2	
	VHF Tuner	EP86X5	
	VHF Tuner	EP86X11	
	UHF Tuner	EP85X2	
	UHF Tuner	EP85X3	
	UHF Tuner	EP85X6	
	UHF Tuner	EP85X7	
L161	Delay Line	EP36X12	
L401	Degaussing Coil	EP36X5	Used in 23" CRT Sets
	Degaussing Coil	EP36X72	Used in 20" CRT Sets
	Degaussing Coil	EP36X59	Used in 18" and 19" CRT Sets
X501	Crystal	EU41X3	3.58MC
	Magnet	EP42X1	Purity Ring Assembly
	CRT Socket	EP34X7	Includes Spark Gap

## PARTS LIST AND DESCRIPTION (CONTINUED)

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## 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.
C283	260/2.5KV/N3300/10%	#EU18X595						
C301	22 NPO 10%		NPO-DI 22		NP022	* CCT0-220	*	
C302	800	#EP18X16		DD-801		CCD-801		
C303	.005		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C304	150 N470 5%	#EP18X35				*	*	10TCT-T15
C306	2.7 NPO 10%	#EP18X27						
C307	.005		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C308	.001		GP5 X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C309	.01		GP5 X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C311	18 N470 10%	#EP18X31				*	*	10TCT-Q18
C312	.0047 50V		V1612D47	CPR-4700J	DPMS6D47	6DP-1-472	PVC6247	6PS-D47
C313	.005		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C316	.005		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C401	.047 600V		DBE6S47		DPMS-6S47	6DP-3-473	PVC6147	6PS-S47
C403	.001 1KV		GP5 X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C404	.001 1KV		GP5 X5F102K	DD-102	GP1000	CCD-102	GP210	10TS-D10
C407	.047 400V		DBE6S47		DPMS6S47	4DP-3-473	PVC4147	4PS-S47
C408	.005 1KV		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C411	.005 1KV		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C412	800	#EP18X16		DD-801		CCD-801		
C413	800	#EP18X16		DD-801		CCD-801		
C414	800	#EP18X16		DD-801		CCD-801		
C416	800	#EP18X16		DD-801		CCD-801		
C417	800	#EP18X16		DD-801		CCD-801		
C418	800	#EP18X16		DD-801		CCD-801		
C419	800	#EP18X16		DD-801		CCD-801		
C421	800	#EP18X16		DD-801		CCD-801		
C422	.1 600V		DBE6P1		DPMS6P1	6DP-4-104	PVC601	6PS-P10
C423	.22 600V		DBE6P22		DPMS6P22	6DP-5-224	PVC6022	6PS-P22
C501	560		GP5 X5F561K	DD-561	GP560	CCD-561	GP356	10TS-T56
C502	11 10%		GP5 COH100K	DD-100	NP010	CCD-100	GP410	10TS-Q10
C503	.01		GP5 X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C504	910 10%	#EP18X20	GP5 X5F911K	DD-911				
C505	240 10%	#EP18X9		DD-241				
C506	800	#EP18X16		DD-801		CCD-801	GP324	
C507	36 NPO 10%	#EP18X32						
C508	39 N750 5%			TCN-39			CN7439	10TCV-Q39
C509	.01		GP5 X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C511	2.4 NPO ±.25	#EP18X28						10TCC-V27
C512	.0011		GP5 X5F122K	DD-122	GP1200	CCD-122	GP212	10TS-D12
C514	.01		GP5 X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-D10
C516	.01		GP5 X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C517	68 NPO 5%			DTZ-68			CN0468	10TCC-Q68
C518	.015 400V		V1614S15		PPMS-6S15	4DP-2-153	PVC6115	4PS-S15
C519	270 5%			TCN-270			CN7327	10TCV-T27
C521	36 N750 5%			TCN-39			CN7439	10TCV-Q39
C522	N750 5%			TCN-39			CN7439	10TCV-Q39
C523	36 N750 5%			TCN-39			CN7439	10TCV-Q39
C524	36 N750 5%			TCN-39			CN7439	10TCV-Q39
C525	2.4 NPO ±.25	#EP18X28						10TCC-V27
C527	.0068 10%		GP5 X5R682K	DD-682		CCD-682	JF268	10TS-D68
C528	.039 50V		DBE6S39		DPMS6S39	6DP-3-393	PVC6139	6PS-S39
C529	.0068 10%		GP5 X5R682K	DD-682		CCD-682	JF268	10TS-D68
C531	3 N750 10%	#EP18X606		TCN-3R3			CN7533	10TS-D68
C532	.006R		GP5 X5R682K	DD-682		CCD-682	JF268	10TS-D68
C533	.005		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C534	.005		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C536	.005		GP5 X5R502K	DD-502	GP5000	CCD-502	JF250	10TS-D50
C555	.01		GP5 X5S103K	DD-103	GP10000	CCD-103	JF110	10TS-S10
C801	.082 200V 10%		DBE6S82		DPMS6S82	6DP-4-823	PVC6182	6PS-S82
C802	.082 200V 10%		DBE6S82		DPMS6S82	6DP-4-823	PVC6182	6PS-S82
C803	.082 200V 10%		DBE6S82		DPMS6S82	6DP-4-823	PVC6182	6PS-S82
C804	.15 200V 10%		V1612P15		DPMS2P15	2DP-3-154	PVC2015	2PS-P15
C805	.1 200V		DBE2P1		DPMS2P1	2DP-3-104	PVC201	2PS-P10
C806	.27 200V 10%					4DP-5-274		

(1) Includes Spark Gap.

# General Electric Part Number.

\* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

## 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.
R187	Green Drive	9000" a"	EP49X49				
R188	Blue Drive	9000" c"	(73C180008-9)				
R192	Red Drive	9000" b"	(4)				
R193	Contrast	500 400 Tap	EP49X67 (73B140362-51)	F51-750, SNK014	NPF-750, NML-A-300, TT-2	B17-103X, TM4 or [BU11, CF48T, SS6A]*	RU751T42, SL37, SN1000
	Contrast	500 325 Tap	EP49X39 (M128J796-6)	F51-750, SNK012	NPF-750, NML-A-300, TT-2	B17-103X, TM4 or [BU11, CF48T, SS6A]*	RU751T42, SL37, SN1000
	Contrast	500 400	EP49X79 (6)	F5-500, SNK014	NP-500-V, NML-A-300, TT-2	B17-103, TM4 or [BU11, CF50, SS6A]*	RU52R, SL37, SN1000 or [UA52R, SN1000]
R194	Brightness	400	EP49X66 (73B140362-49)	F5-500, SNK014	NP-500-V, NML-A-300, TT-2	B17-103, TM4 or [BU11, CF50, SS6A]*	RU52R, SL37, SN1000 or [UA52R, SN1000]
	Brightness	400	EP49X38 (73B140142-21)	F5-500, SNK012	NP-500-V, NML-A-300, TT-2	B17-103, TM4 or [BU11, CF50, SS6A]*	RU52R, SL37, SN1000 or [UA52R, SN1000]
	Brightness	400	EP49X78 (6)				
R196	Brightness Limiter	150	EP49X28 (23B210414-5)	TSV-150 or T-200		X201R251B	MTC22L1
R203	AGC	9000	EP49X27	TSV-10K (1) or T-10K (1)		U201R103B	MTC14L4
R222	Vert. Hold	1meg	EP49X68 (73B140362-50)	F1-1meg, SNK014	B47-1meg-S or [NP-1meg-S, NML-A-300, TT-2]	B11-137, TM4 or [BU11, CF17, SS6A]*	PTA16L or [RU16L, SL37, SN1000] or [UA16L, SN1000]

SET 1231 FOLDER 2

GENERAL ELECTRIC  
CHASSIS C-2, L-2

FOLDER 2



## PARTS LIST AND DESCRIPTION (CONTINUED)

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## 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.
	Vert. Hold	1meg	EP49X40 (5)	F1-1meg,SNK012	B47-1meg-S or [NP-1meg-S, NML-A-300,TT-2]	B11-137, TM4 or [BU11,CF17, SS6A]*	PTA16L or [RU16L,SL37, SN1000] or [UA16L,SN1000] MTC3253L1(2)
R226	Vert. Linearity	330K"a"	EP49X31 (73C180008-6) (7)				
R229	Height	3.3meg"b"	EP49X32 (23B210684-2)	TSV-50K or T-50K		X201R503B	MTC355L1 (2) MTC54L1
R274	High Voltage	40K	EP49X63 (73B140169-22)	F2-1meg, SNK200, KR-1	A47-1meg-S, RN-3, SWE-12 or [NP-1meg-Z, NML-A-300, NWE-12]	Q13-137, 76-1, C3(3) or [BU1, CF26, SS6A, GC]*	RU16A, SL38, SN2000, US41 or [UA16A,SN2000, US41]
R313	Volume/Switch	1meg					
	Volume/Switch (Slider Type)	1meg	EP49X35 (8) EP49X41(6)				
	Volume/Switch	1meg	EP49X47 (9)				
	Volume/Switch	1meg	EP49X48 (10)				
	Volume/Switch	1meg	EP49X60 (11)				
R508	Color	500	EP49X37 (73B140362-23)	F1-500, SNK104	A47-500-S, RN-3, TT-2 or [NP-500-S, NML-A-300, TT-2]	B11-103, TM4 or [BU11,CF4, SS6A]*	RU52L, SL37, SN2000 or [UA52L,SN2000]
	Color	500	EP49X54 (73B140362-41)	F1-500, SNK108, AK-38	A47-500-S, RN-3, TT-2 or [NP-500-S, NML-A-300, TT-2]	B11-103, TM4 or [BU11,CF4, SS6A]*	RU52L, SL37, SN2000 or [UA52L,SN2000]
	Color	500	EP49X62(12)				
R516	Color Tint	100K	EP49X71(13)	F2-100K, SNK104	A47-100K-Z, RN-3, TT-2 or [NP-100K-Z, NML-A-300, TT-2]	B13-128, TM4 or [BU11,CF52, SS6A]*	RU15A, SL37, SN2000 or [UA15A,SN2000]
	Tint	100K	EP49X61(12)				
	Tint	100K	EP49X76(6)				
R532	Blue Balance	2000	EP49X29 (23B210684-1)	TSV-2.5K or T-2500		X201R252B	MTC23L1
R536	Red Balance	2000	EP49X29	TSV-2.5K or T-2500		X201R252B	MTC23L1
R558	Blue Screen	1meg"b"	(23B210684-1) EP49X33 (73C180022-7) (14)				
R561	Green Screen	1meg"a"					
R563	Red Screen	1meg"b"					
R801	Blue Horiz. Lines (Left)	90 3W	23B210265-2	WP-100, WSK104			MR100P, MRS1250
	Blue Horiz. Lines (Left)	120 3W	EU49X607(15)	WP-100, WSK104			MR100P, MRS1250
R804	R/G Vert. Lines (Left)	150 2W	EU49X360 (P126 J365-8)	V-150 or WCP-150	U39-150	110C150	MRC150P
R805	R/G Horiz. Lines (Left)	120 2W	EU49X357 (P126 J365-6)	V-120 or WCP-120	U39-125	110C120	MRC120P
R808	Blue Horiz. Lines (Bottom)	30 2W	EU49X359 (P126 J365-7)	V-30 or WCP-30	U39-50	110C30	MRC30P
R811	R/G Vert. Lines (Bottom)	150 2W	EU49X360 (P126 J365-8)	V-150 or WCP-150	U39-150	110C150	MRC150P
R812	R/G Horiz. Lines (Bottom)	500 2W	EU49X605 (P126J365-10)	V-500 or [WP-600,WSK104]	U39-500	110-600	MR600P, MRS1250
R813	R/G Horiz. Lines (Top)	120 2W	EU49X357 (P126 J365-6)	V-120 or WCP-120	U39-125	110C120	MRC120P
R814	R/G Vert. Lines (Top)	60 2W	EU49X358 (P126 J365-5)	V-60 or WCP-60	U39-75	110C60	MRC60P
R815	Blue Horiz. Lines (Top)	60 2W	EU49X358 (P126 J365-5)	V-60 or WCP-60	U39-75	110C60	MRC60P

\* "SNAPTROL"

(1) For horizontal mounting, bend the two outside terminals to fit "PC" board. Use jumper wire to connect center terminal to "PC" board.

(2) Special Dual Unit, when replacing either, both must be replaced.

(3) Use coupler with portion of original shaft to obtain desired length.

(4) Includes R187, R188 and R192.

(5) Used in Models CBM261CWD-2, CBM264CWD-2, M810CWD-2, WM266CWD-2, WM270CBW-2, WM274CWD-2 and WM277CWD-2.

(6) Used in Models WM381CWD-2, WM382CWD-2 and WM383CWD-2.

(7) Includes R226 and R229.

(8) Used in Models CBM264CWD-2 and WM264CWD-2.

(9) Used in Models WM266CWD-2 and WM279CCT-2 and WM279CEA-2.

(10) Used in Model CBM261CWD-2.

(11) Used in Model M810CWD-2.

(12) Used in Models CBM264CWD-2, M810CWD-2, WM264CWD-2 and WM277CWD-2.

(13) Used in Models WM266CWD-2 and WM274CWD-2.

(14) Includes R558, R561 and R563.

(15) Alternate Part, may be used in some versions.

## RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R147	10K 2W	CC-10K	
R163	56 1/4W	CD-56	
R164	220 1/4W	CD-220	
R186	7500 7W	10W-SQ-7.5K	EP14X11
R189	27K 2W	CC-27K	
R191	8.2K 2W	CC-8200	
R234	560 2W	CC-560	
R236	2700 1W	CB-2700	
R237	8200 2W	CC-8200	
R238	330 2W	CC-330	EP14X17
R246	Thermistor (3.8 CoId)	FR3.8	EPX147
R280	6000 5W	5W-SQ-6K	
R281	4.7meg 2W	CC-4.7meg	EP14X13
R282	2 2W	WS-2.2	EP14X27
R283	430K 3W		EP14X15
R284	430K 3W		EP14X15
R286	66meg 1.5W		EP14X14

ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.
R287	100K 1W	CC-100K	
R288	4700 2W	CC-4700	
R307	2200 1/4W	CD-2200	
R308	470K 1/4W	CD-470K	
R311	27K 2W	CC-27K	
R401	V.D.R. * (20V 67ma)		
R404	3 10W	10W-SQ-3	EP14X24
R407	100 5W	5W-SQ-100	ES14X14
R407	1800 22W	25W-SQ-1.75K	EP14X18
R408	47 22W	25W-SQ-47	EP14X16
R409	47 22W	25W-SQ-47	EP14X16
R503	150 1/2W	CB-150	
R504	8200 2W	CC-8200	
R509	10K 1W	CB-10K	
R522	1800 1/2W	CA-1800	
R524	6800 1W	CB-6800	

\* Voltage-dependent resistor.

## 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			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L149	RF Choke (16 Turns)	EP36X35			
L151	47.25MC Trap	EP36X13			
L152	RF Choke (5 turns)	EP36X6			
L153	1st Video IF	EP61X1			
L154	RF Choke (12uh)	EP36X23		72F125AP	
L156	RF Choke (15uh)	EP36X8		72F155AP	
L157	RF Choke (37uh)	EP36X7	19-3036	6176	T301
L158	4.5MC Trap	EP61X3			
L159	RF Choke (9.2uh)	EP36X4	19-2016	72F105AP	T823
L162	Peaking (31uh)	EP36X45			
L164	Peaking (270uh)	EP36X26	19-3275	72F274AP	T316
L166	Peaking (220uh)	EP36X27		72F224AP	
L252	Peaking (3mh)	EP36X32		6302	
L253	RF Choke (10uh)	EP36X38			
L254	RF Choke (10uh)	EP36X37	19-2016	72F105AT	T823
L255	Peaking (10uh)	EP36X37 (EP36X41)*	19-2016	72F105AT	
L301	Sound Take-off	EP36X28			
L302	Peaking (680uh)	EP36X29	19-3660	72F684AP	TA330
L303	Quadrature	EP36X30		7117-A	TA291
L501	Chroma Take-off	EP36X24			
L502	Peaking (56uh)	EP36X34	19-3060	72F565AP	T302
L503	3.58MC Oscillator	EP36X28			
L504	Peaking (56uh)	EP36X33	19-3060	72F565AP	T302
L506	Peaking (56uh)	EP36X33	19-3060	72F565AP	T302
L507	Peaking (56uh)	EP36X33	19-3060	72F565AP	T302
L508	Peaking (56uh)	EP36X33	19-3060	72F565AP	T302
L509	RF Choke (5.6uh)	EP36X31	19-1008	4610	T821
L511	RF Choke (5.6uh)	EP36X31	19-1008	4610	T821
L512	RF Choke (5.6uh)	EP36X31	19-1008	4610	T821
L513	RF Choke (5.6uh)	EP36X31	19-1008	4610	T821
L514	RF Choke (5.6uh)	EP36X31	19-1008	4610	T821
L517	Peaking (680uh)	EP36X29	19-3660	72F684AP	TA330
L518	Peaking (680uh)	EP36X29	19-3660	72F684AP	TA330
T151	2nd Video IF	EP61X4			
T152	3rd Video IF	EP61X5			
T153	4th Video IF/Vdeo Detector	EP61X6			
T300	Sound Interstage	EP36X34			
T402	Line Choke	EU36X856			
T501	Chroma Bandpass	EP61X173	17-6027	6042	TA179
T502	3.58MC Oscillator Adjust	EP61X174			
T503	Chroma Demodulator	EP61X175			

\* Alternate used in some versions.

## COILS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA					
		MFGR. PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.	WORKMAN PART No.
L200	Pincushion Phase	EP36X74 (EP36X24)					
L251	Pincushion Phase Alt.	EP35X2					
L801	Horiz. Osc. (Hold)	EU36X787 (23A200357-2)	H-138				T149
L802	Right R/G Horiz. Lines	EU36X820					
L803	Blue Phase	EU36X789	H-139				
	Conv. Yoke Assembly	EU62X354 (73D220139-4)	6356				
L804	Green Section	EU36X849					
L805	Blue Section	EU36X849					
L806	Red Section	EU36X849					
T200	Pincushion Correction	EU51X29					
T263	Pincushion Correction(Alt)	(EU51X23)			FC-5		TC-288
T801	Focus	EP36X61 (1)	6350				
	Right Blue Horiz.	EU51X24 (23A200356-2)	H-140				

(1) Not used in some versions.

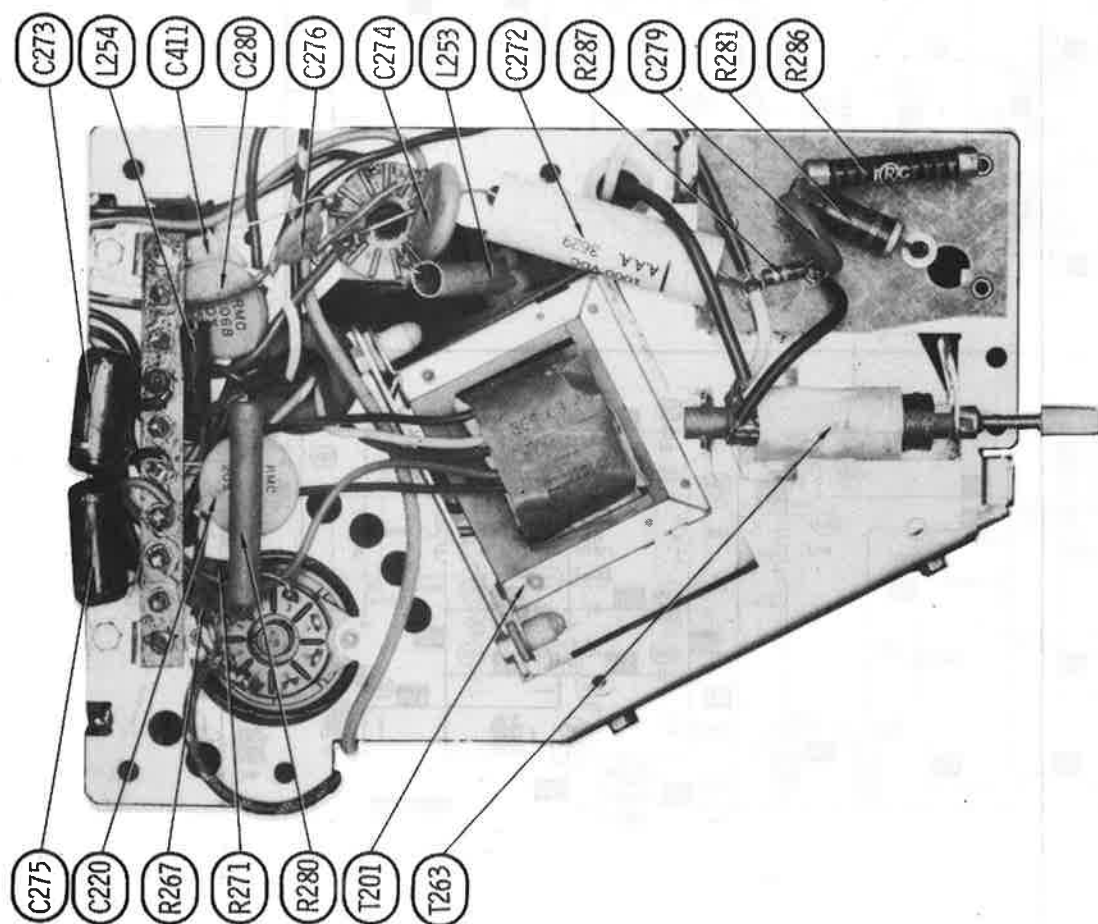
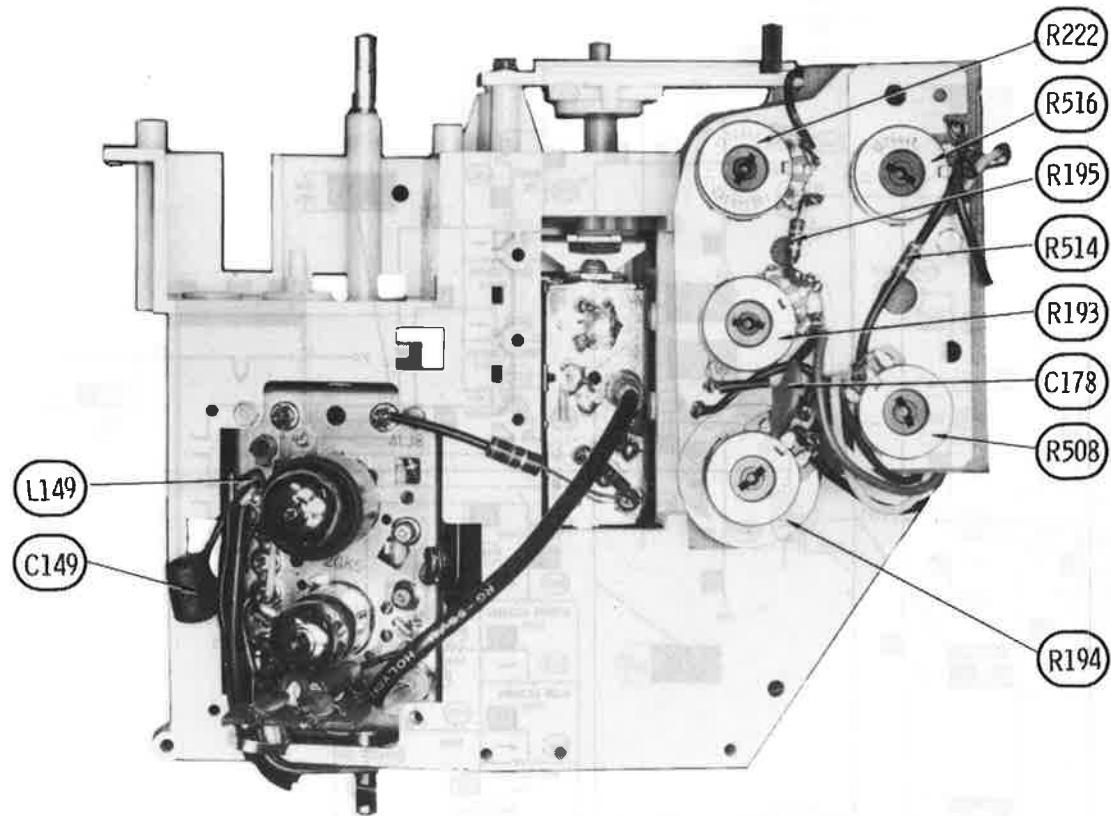
## FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L402	.3ADC	22	460mh	EP63X2 (73B14-0414-2)	C2328 (1)	26C80 (1)	C-36X(1)	(1) Drill New Mounting Hole(s)

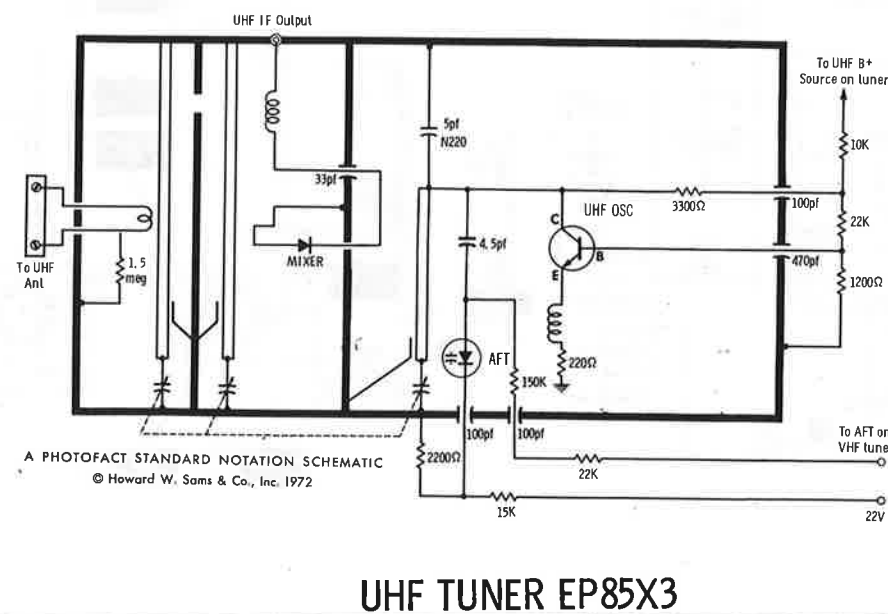
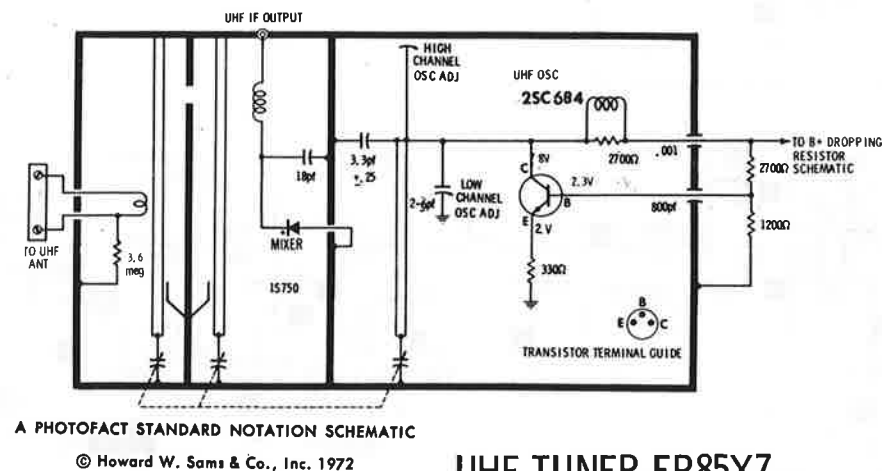
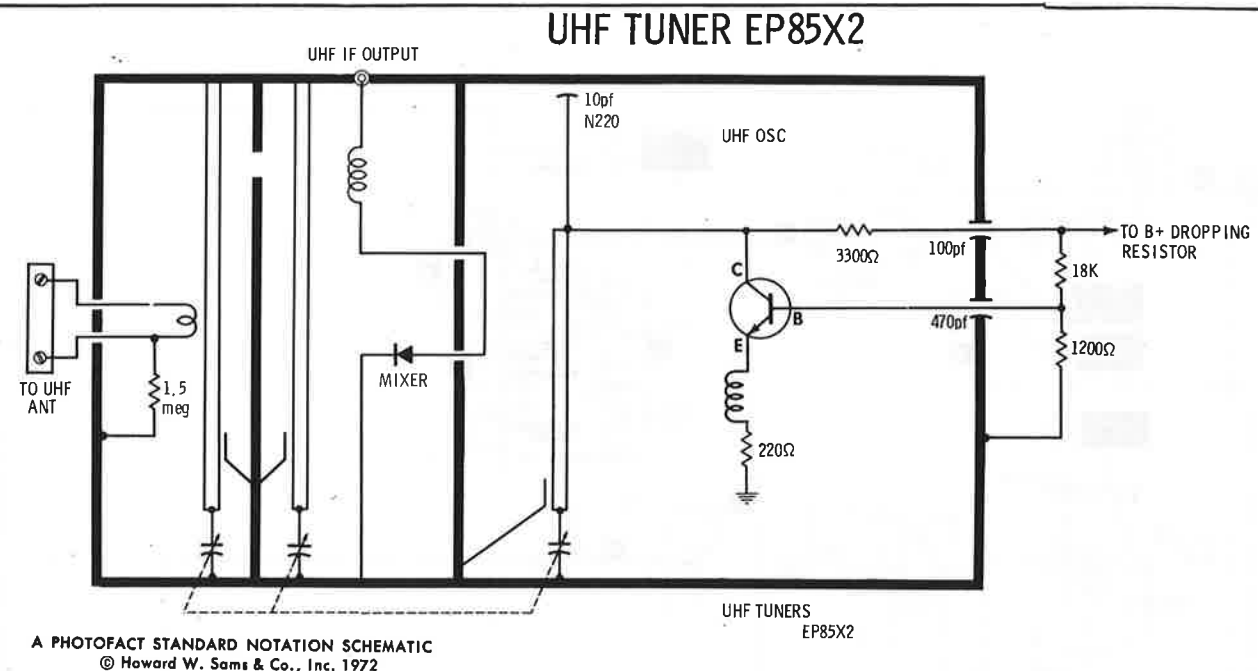
## TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T400	117VAC @ .1AAC	6.3VAC @ 1.3AAC	EP64X1 (73C1800361)				





HV CHASSIS - BOTTOM VIEW



GENERAL ELECTRIC  
CHASSIS C-2, L-2

FOLDER 2

#### CHASSIS REMOVAL

Remove eight screws holding  
connect antenna leads and re  
Remove all knobs from the fr

NOTE: Most components may b  
removing chassis.

Disconnect picture-tube sock  
plug, convergence plug, HV a  
leads, ground strap, antenna  
IF Cable, Tuner Plug, Control  
ing leads.

Remove four screws at bottom  
plastic chassis to cabinet f  
screws holding plastic chass  
move chassis.

Remove three screws holding  
and remove.

#### HORIZONTAL OSCILLATOR

Adjustment of the hor  
accomplished by the p  
the Horizontal Hold C  
Placement Chart" for

#### WIDTH

No provision is made  
on this receiver.

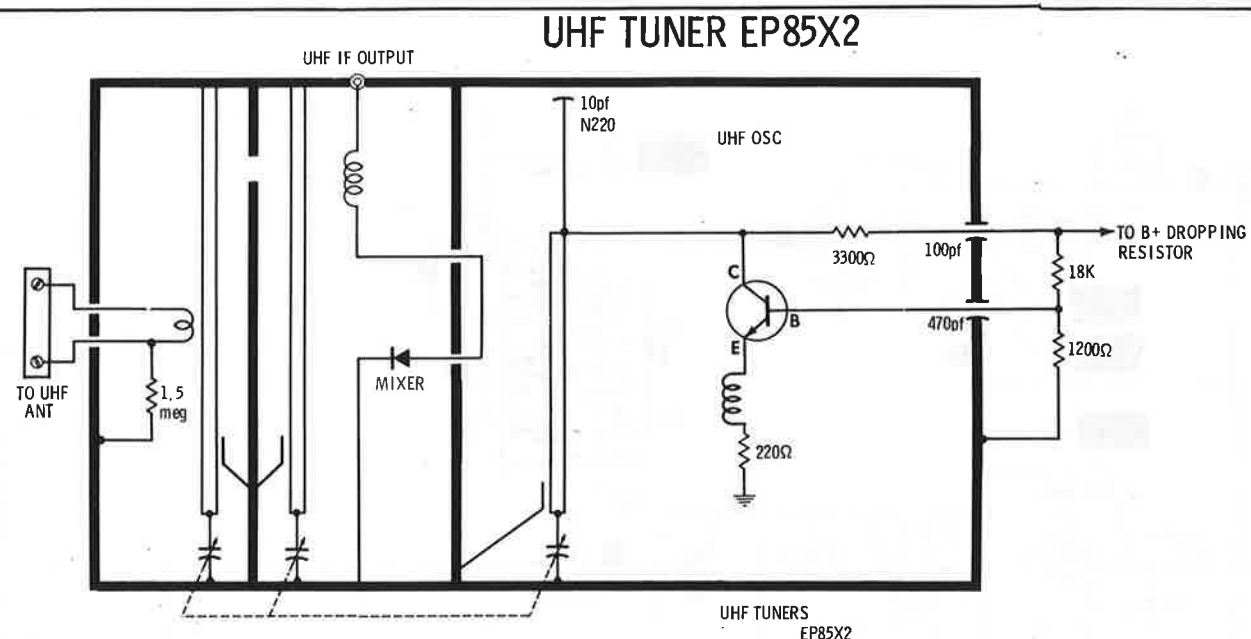
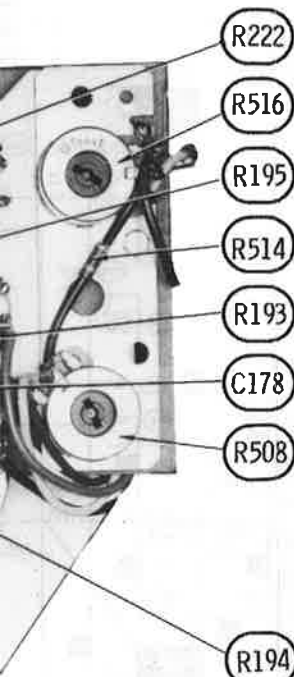
#### FOCUS

The focus may be vari  
focus coil. (See "Ca  
Chart" for location.)

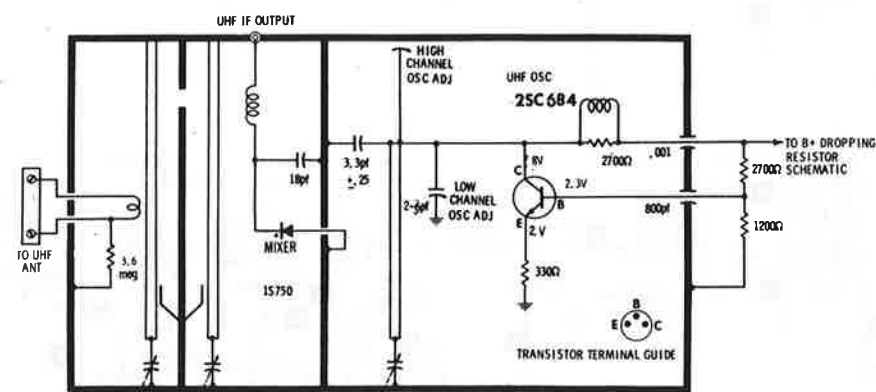
#### AGC

The AGC may be varied  
AGC Control. (See "T  
Chart" for location.)



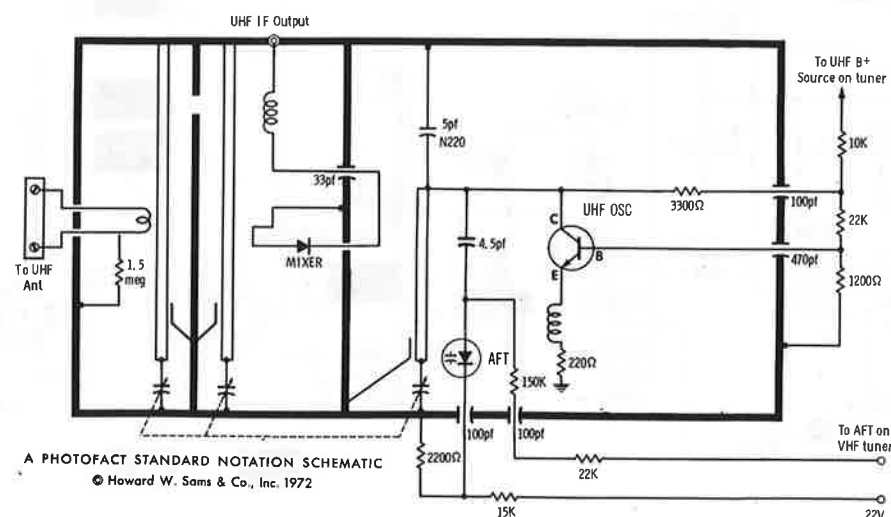


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### UHF TUNER EP85X7

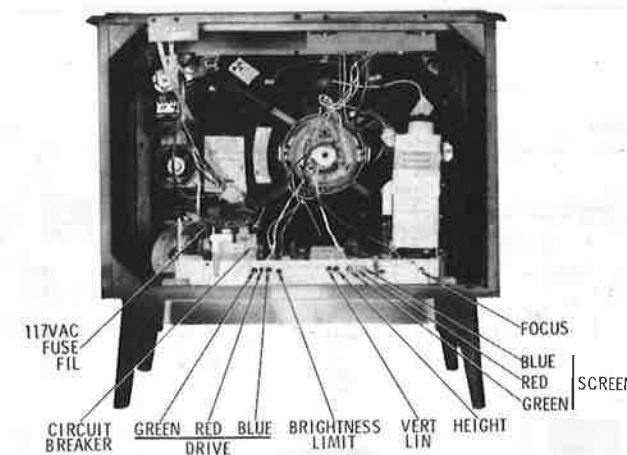


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### UHF TUNER EP85X3

GENERAL ELECTRIC  
CHASSIS C-2, L-2

FOLDER 2



### CABINET-REAR VIEW

### DISASSEMBLY INSTRUCTIONS

#### CHASSIS REMOVAL

Remove eight screws holding cabinet back. Disconnect antenna leads and remove cabinet back. Remove all knobs from the front of the set.

NOTE: Most components may be serviced without removing chassis.

Disconnect picture-tube socket, deflection-yoke plug, convergence plug, HV anode lead, speaker leads, ground strap, antenna connector assembly, IF Cable, Tuner Plug, Control Plug, and degaussing leads.

Remove four screws at bottom front holding plastic chassis to cabinet front. Remove two screws holding plastic chassis at rear and remove chassis.

Remove three screws holding control assembly and remove.

Remove five screws holding tuner assembly and remove.

#### PICTURE TUBE REMOVAL

Follow "Chassis Removal" procedure and lay set facedown on a soft protective surface. Support cabinet front with blocks to remove pressure on front of the CRT.

Remove blue lateral and purity magnet assembly, convergence yoke, and deflection yoke from the picture-tube neck.

Remove four screws holding degaussing shield and remove shield. Loosen bolt holding picture-tube retaining wire.

Loosen six screws in the two bottom picture-tube brackets enough to allow the brackets to slide away from picture tube. Lift picture tube out of the cabinet. Do not lift tube by the neck.

### SERVICING IN THE FIELD

#### HORIZONTAL OSCILLATOR

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

#### WIDTH

No provision is made to vary the width on this receiver.

#### FOCUS

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

#### AGC

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

#### CRT IMPLSION PROTECTION AND CLEANING

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

#### FUSE/FUSE DEVICE

A Circuit Breaker is used for low-voltage power-supply protection. (See "Cabinet Rear View" Photo for location.) A 4-amp fuse is used for AC line protection. (See "Cabinet Rear View" Photo for location.)

A Thermal cut-out fuse is used for filament protection.

A .5-amp fuse is used for CRT filament protection.

#### VHF TUNER

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