



DISASSEMBLY INSTRUCTIONS

SAFETY GLASS REMOVAL

1. Remove trim channels at the top and bottom of the safety glass by prying outward starting at the extreme ends.
2. Slide the retaining bars now exposed to the right by inserting a small bladed screwdriver in the slots near the middle of bars.
3. Tilt safety glass out and remove.

CHASSIS REMOVAL 210CK855

1. Remove 10 push-on type knobs from side of cabinet.
2. Remove 4 screws and 3 clips holding rear cover. Remove rear cover.
3. Remove speaker leads, HV lead, yoke leads, picture tube socket and convergence board plug.
4. Remove 2 chassis bolts from bottom of chassis, 1 from top and 1 wood screw from top rear of chassis.
5. Remove chassis.



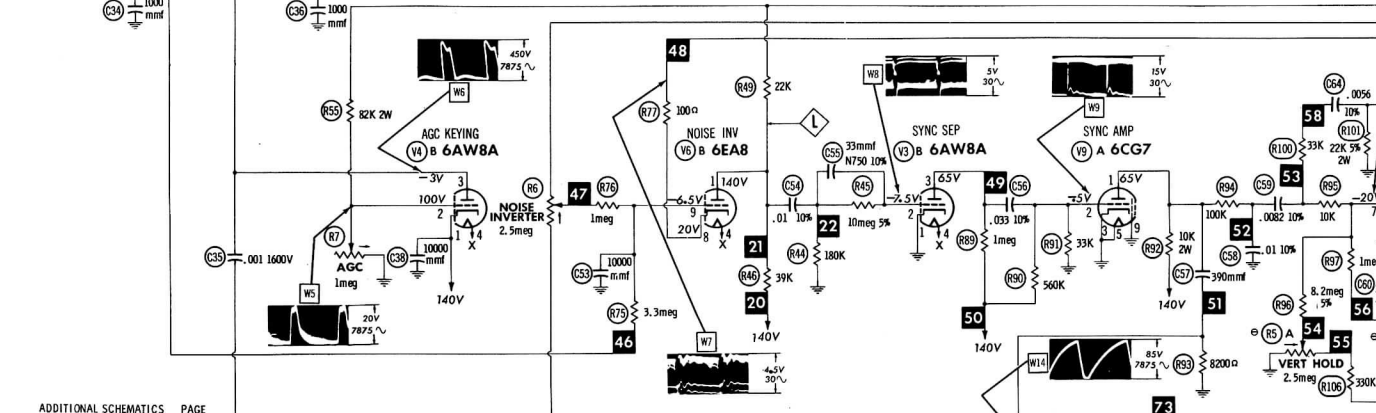
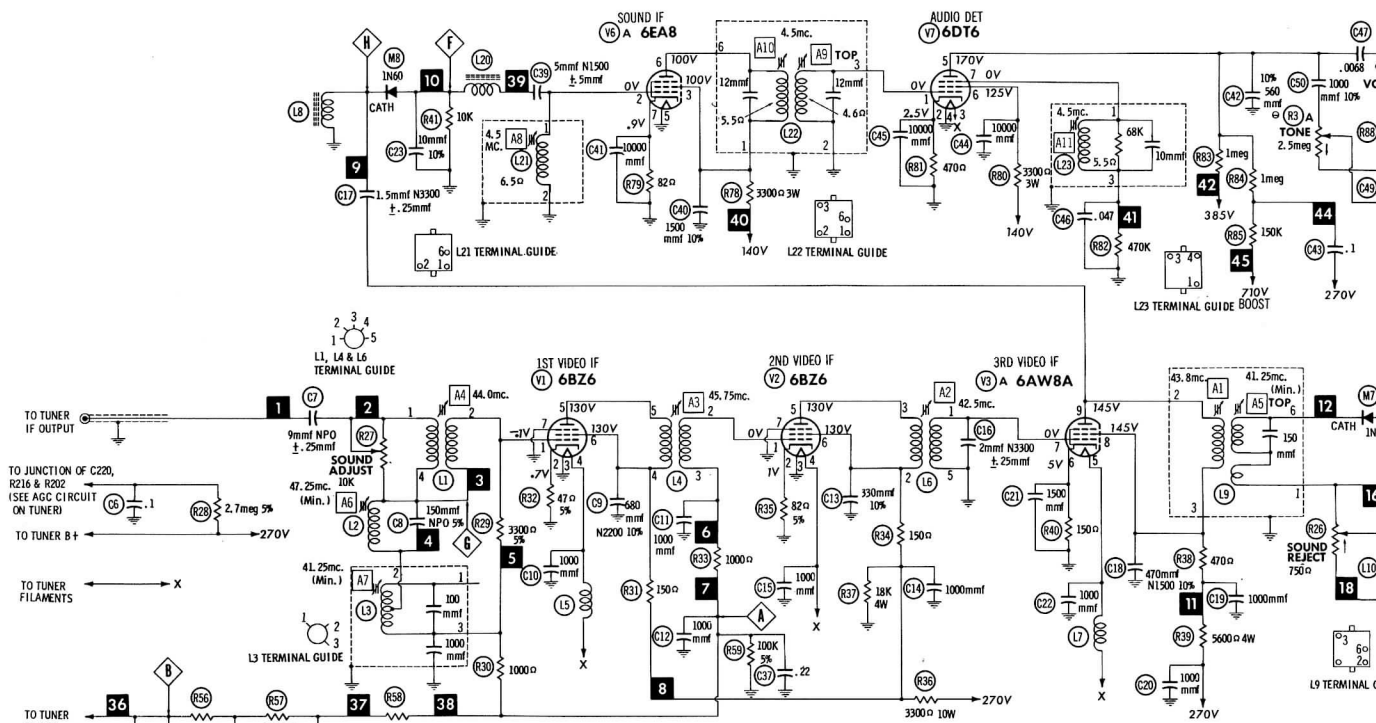
MODEL 210CK855 (Ch. CTC9A)

TRADE NAME	RCA Victor	MODELS	CHASSIS
		210CK855, 210CK856, 210CK857, 210CT822	CTC9A
		210CK855U, 210CK856U, 210CK857U, 210CT822U	CTC9B
		210CK885, 210CK886, 210CK889, 210CK905, 210CK906, 210CK907, 210CK920, 210CK924, 210CK935, 210CK936, 210CT835, 210CT836, 210CT837	CTC9F
		210CK885U, 210CK886U, 210CK889U, 210CK905U, 210CK906U, 210CK907U, 210CK920U, 210CK924U, 210CK935U, 210CK936U, 210CT835U, 210CT836U, 210CT837U ..	CTC9H CTC9N
		210CKR940, 210CKR946, 210CTR845, 210CTR847	CTC9P
		210CKR940U, 210CKR946U	CRK3A
		210CKR940, U, 210CKR946, U, 210CTR845, 210CTR847 .. (Remote Transmitter).....	CTP7A
	 (Remote Receiver)	
MANUFACTURER	Radio Corporation of America, RCA Victor Tele. Div., Camden 8, N.J.		
TYPE SET	Color Television Receiver		
TUBES	VHF Twenty-four, UHF Twenty-five		
POWER SUPPLY	110-120 Volts AC, 60 Cycle	RATING 275 Watts, 3 Amp. @ 117 Volts AC	

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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ADDITIONAL SCHEMATICS PAGE
 TUNER KRK48D, 75C, 75D(VHF), 21
 TUNER KRK49D, 76C, 76D
 (VHF with UHF provisions)..... 23
 TUNER KRK66M, AA, AB (UHF)..... 25
 REMOTE CONTROL 26

⊕ DENOTES CHASSIS GROUND
 ■ MEASURED FROM CATHODE
 ■ MEASURED FROM 140V SOURCE

NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

ALL WAVEFORMS EXCEPT COLOR CIRCUIT TAKEN WITH BLACK AND WHITE TEST PATTERN AND ALL CONTROLS SET TO PRODUCE 40 VOLTS OF VIDEO AT W3.

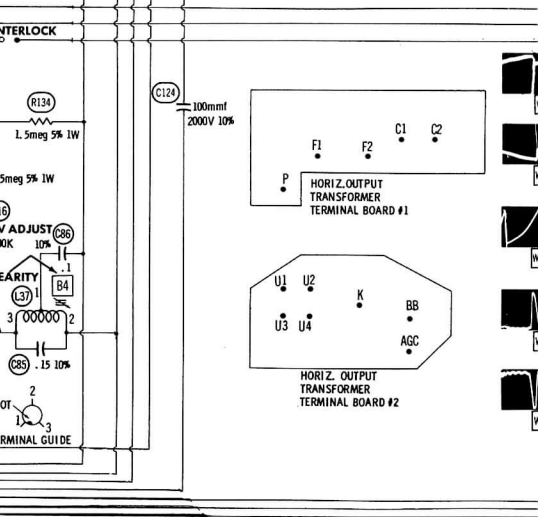
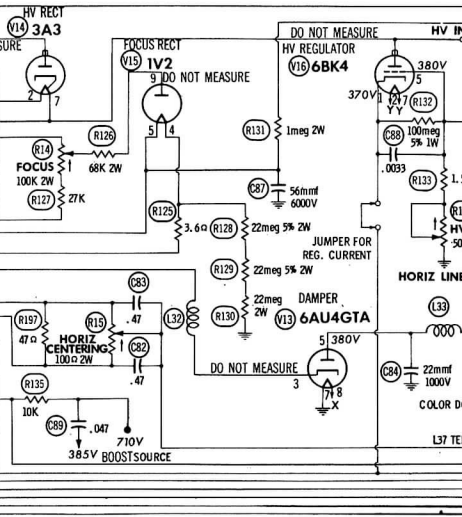
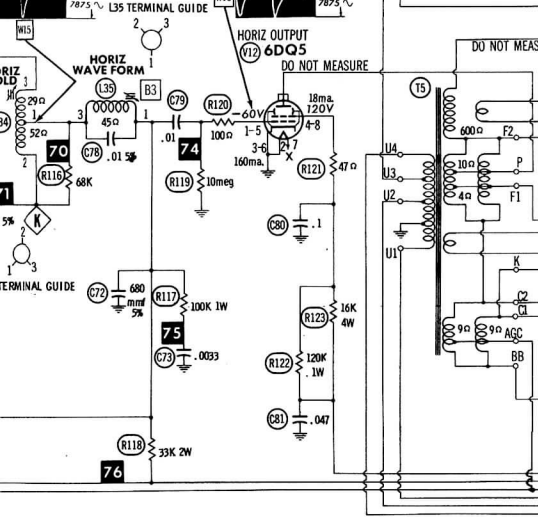
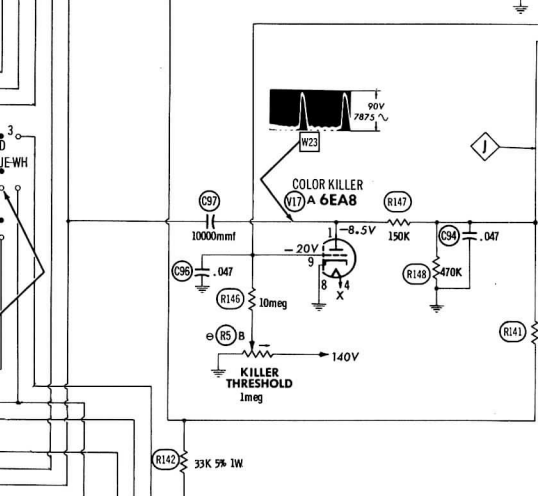
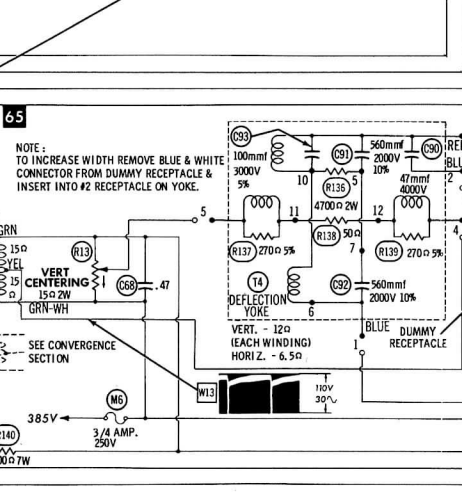
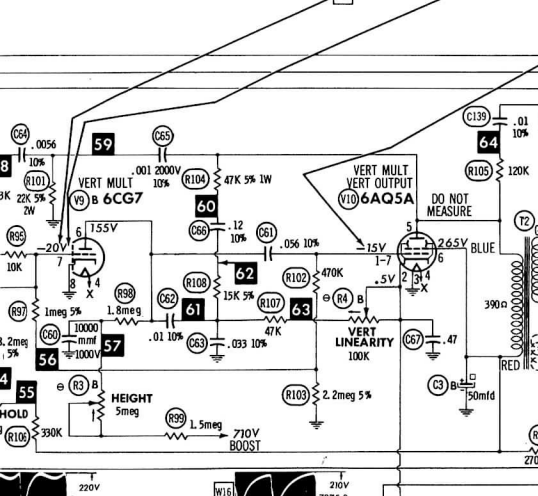
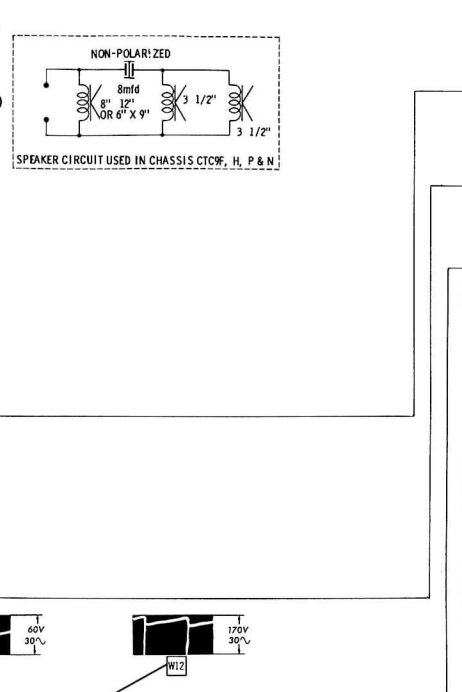
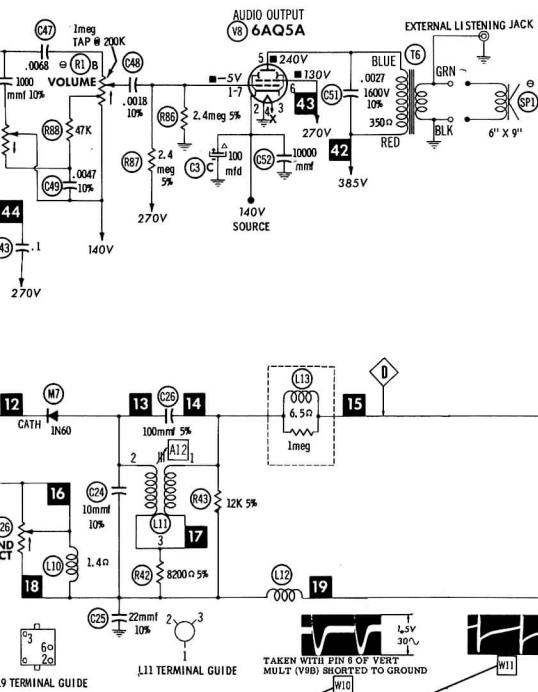
COLOR CIRCUIT WAVEFORMS TAKEN WITH WIDE BAND OSCILLOSCOPE WITH ALL CONTROLS AND ADJUSTMENTS SET TO PRODUCE PROPER PRESENTATION FROM A FULLY SATURATED COLOR-BAR GENERATOR CONSISTING OF RED, YELLOW, GREEN, CYAN, BLUE, MAGENTA, AND WHITE.

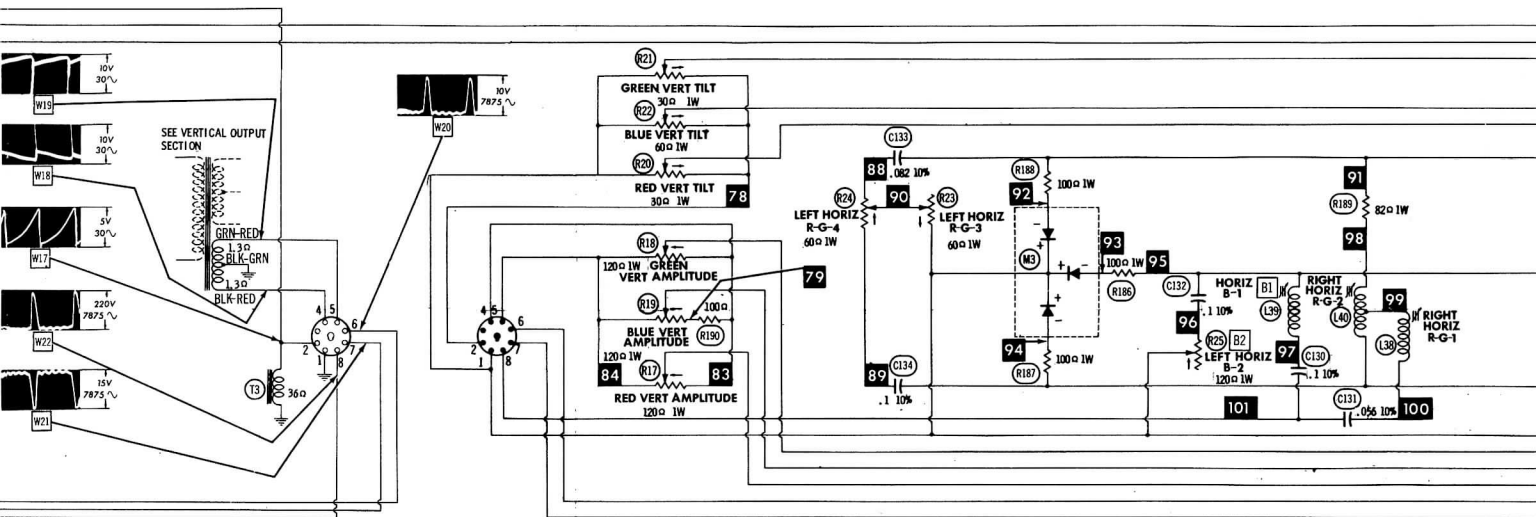
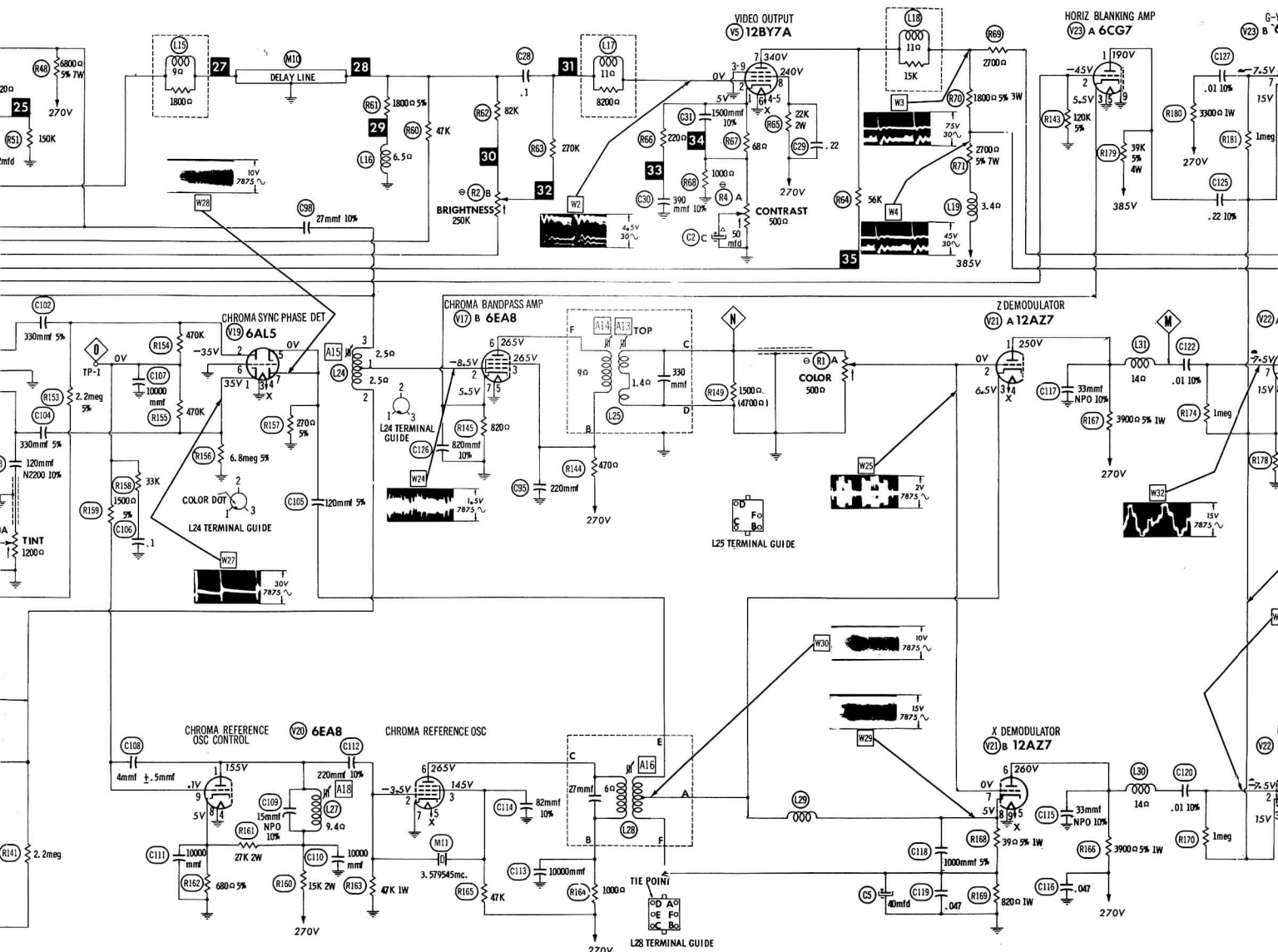
⊕ SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
 DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM
 ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

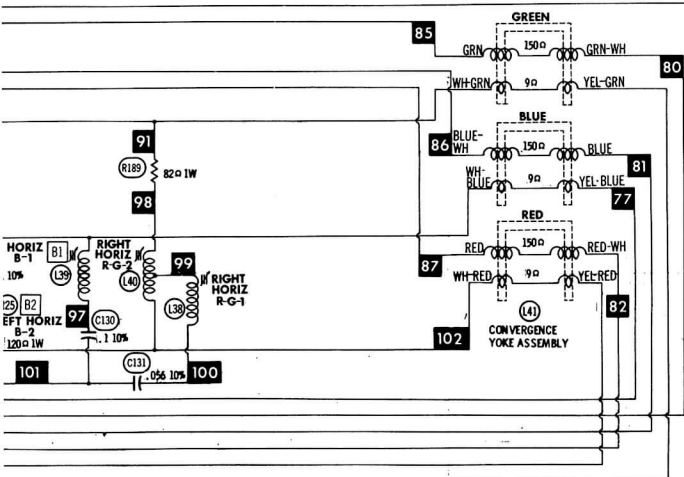
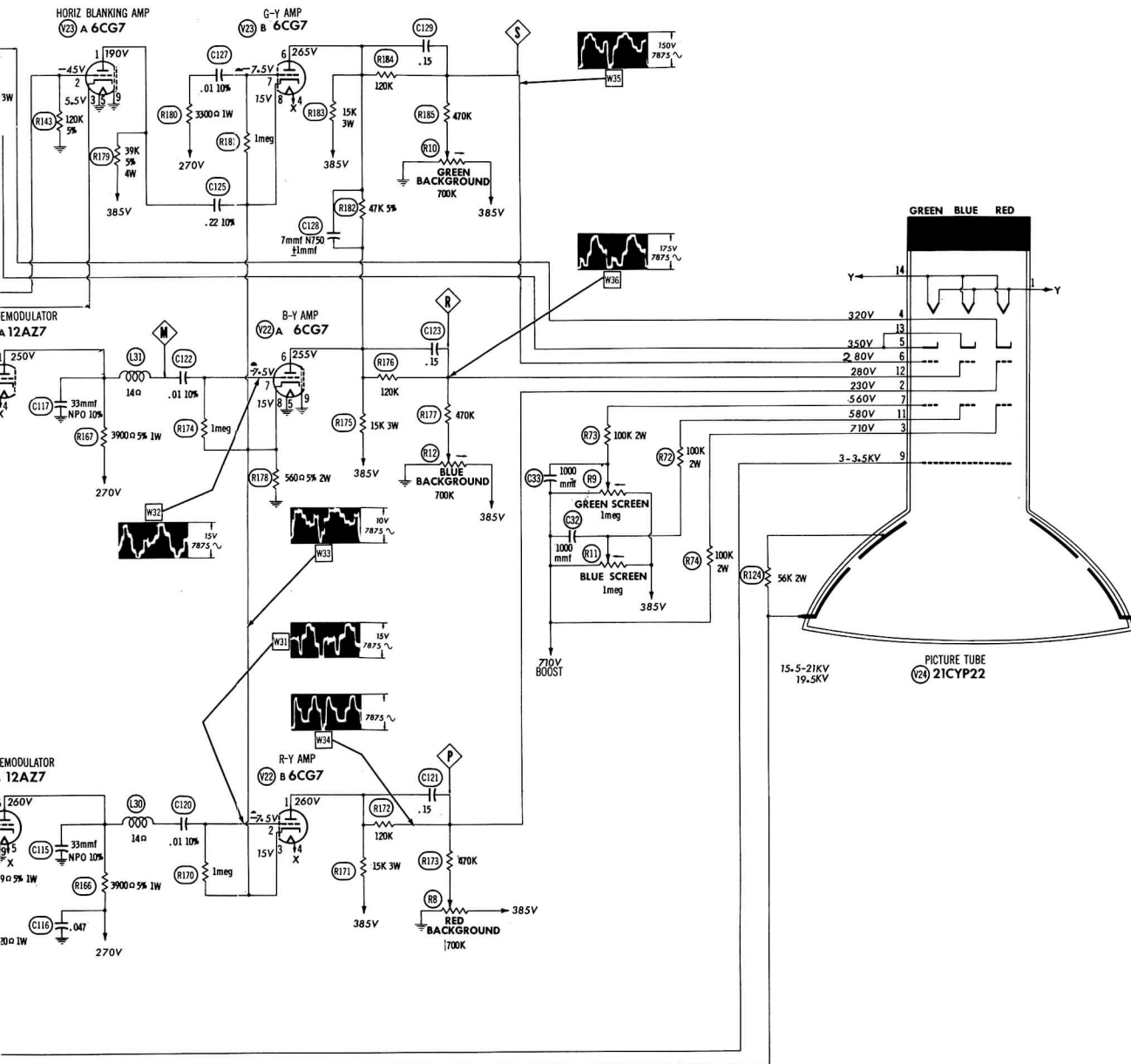
1. DC voltage measurements taken with vacuum tube voltmeter, AC voltage measured at 1000 ohms per volt.
2. Pin numbers are counted in clockwise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.
4. Line Voltage maintained at 117 volts for voltage readings.
5. All controls set for normal operation; no signal applied.

A PHOTOFAC STANDARD NOTATION SCHEMATIC with **CIRCUITRACE**

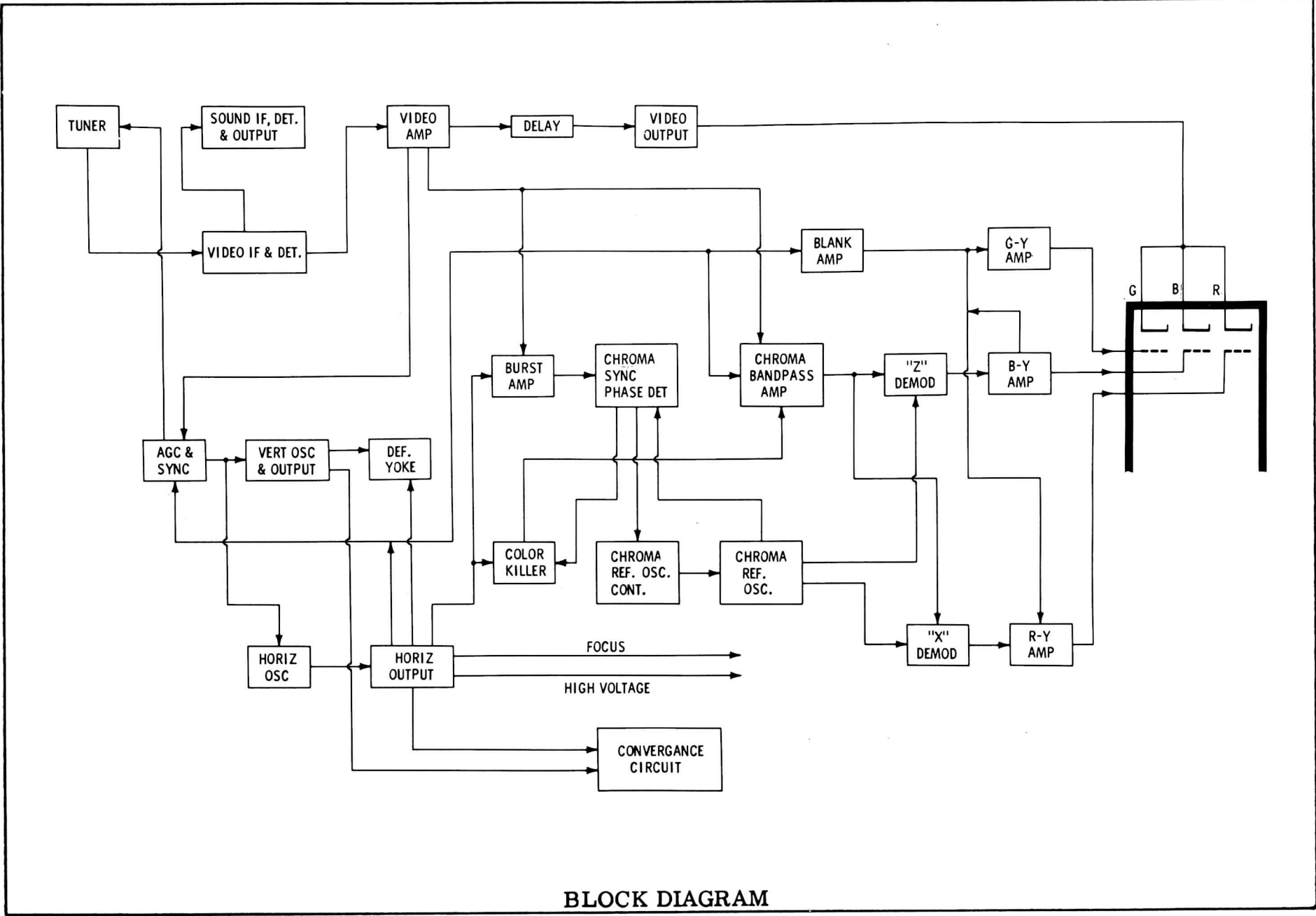
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RCA VICTOR CHASSIS
 CTC9A, B, F, H, N, P



BLOCK DIAGRAM
RCA VICTOR CHASSIS
CT9A, B, F, H, N, P

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

The High Voltage lead should be securely taped and kept away from the chassis.
 Allow a 20 minute warm-up period for the receiver and test equipment.
 Suggested Alignment Tools: GENERAL CEMENT #8606, 8606L, 8282, 9295
 WALSCO #2526, 2543, 2544, 2545

VIDEO IF ALIGNMENT

Connect the negative lead of a 6 volt bias supply to point ⓐ . Positive to chassis.
 Connect the negative lead of a 15 volt bias supply to point ⓑ . Positive to chassis.
 Connect the negative lead of a 7 volt bias supply to point ⓒ . Positive to chassis.
 Connect the negative lead of a 7 volt bias supply to pin 2 (grid) of the Horizontal Blanking Amp. Positive to chassis.
 Connect a clip lead from point ⓓ to chassis. Preset Sound Reject (R26) at 75% clockwise rotation. Preset Sound Adjust (R27) at 50% rotation.
 Video IF shield must be in place during alignment.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1. Direct	High side to ungrounded tube shield floating over Mixer-Osc. (V202). Low side to chassis.	43.8MC (Unmod)	4	DC probe thru 10K to point ⓓ . Common to chassis. Use negative scale.	A1	Adjust for maximum deflection. Use peak with ccre nearest printed board end of coil. Maintain VTVM reading of 1.5 volts by adjusting signal generator output.
2. "	"	42.5MC	"	"	A2	"
3. "	"	45.75MC	"	"	A3	"
4. "	"	44.0MC	"	"	A4	"
5. "	"	"	"	"	Mixer Plate Coil	Adjust for maximum deflection with peak at top end of coil.
6. "	"	41.25MC	"	"	A5, R26	Adjust A5 and Sound Reject (R26) simultaneously for MINIMUM deflection with slug away from chassis. Reduce bias at point ⓐ if necessary for sufficient indication.
7. "	"	47.25MC	"	"	A6, R27	Adjust for MINIMUM deflection with slug away from chassis.
8. "	"	41.25MC	"	DC probe thru 10K to point ⓓ . Common to chassis.	A7	Increase bias at point ⓐ to -6 volts. Adjust A7 for MINIMUM deflection with slug away from chassis.

OVERALL VIDEO IF RESPONSE CHECK

Connect bias as under "Video IF Alignment".
 Connect a .001mfd capacitor in series with a 180Ω resistor from pin 5 (Plate) of the 2nd Video IF Amp. to chassis with the resistor next to chassis.
 Connect a 1000mmf capacitor across the scope leads.
 The Video IF shield must be in place during alignment.
 Connect the DC probe of the VTVM to point ⓓ . Common to chassis. (Use negative scale).
 Use 10MC sweep unless otherwise noted.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
9. Direct	High side to ungrounded tube shield floating over Mixer-Osc. (V202). Low side to chassis.	45MC	42.17MC 45.75MC	4	Vert. Amp. thru demodulator probe (Fig. 1) to pin 5 (plate) of 1st Video IF. Low side to chassis.		Set sweep output for .1 volt peak to peak on scope. Retouch Mixer Plate Coil and A4 for maximum gain and symmetry of response similar to Fig. 2. Reduce the bias to -4 volts at point ⓐ if necessary.
10. "	"	"	41.25MC	"	"		Reduce bias at point ⓐ to zero. Retouch A7 to place marker in trap notch as in Fig. 2.
11. "	"	"	47.25MC	"	"		Retouch A6 and R27 to place marker in trap notch as in Fig. 2. Remove capacitor and resistor load from 2nd Video IF. Increase bias at point ⓐ to -6 volts.
12. "	"	"	41.65MC 42.17MC 42.75MC 45.0MC 45.75MC	"	Vert. Amp. thru 10K to point ⓓ . Low side to chassis.		Use 3 volts peak to peak on the scope. Retouch A1, A2 and A3 for response similar to Fig. 3 with markers as shown. A1 controls the tilt, A2 affects 42.17MC side of curve and A3 affects the 45.75MC side. Connect a .001mfd capacitor from point ⓓ to chassis.
13. "	"	"	41.25MC	"	"		Retouch A5 and R26 to place marker in trap notch if necessary. Remove .001mfd.
14. Fig. 4	Across VHF antenna terminals thru matching network (Fig. 4).	All VHF Channels separately	42.17MC	All VHF Channels separately	"		Decrease bias at point ⓑ to -3 volts. SLIGHTLY retouch A1, A2 and A3 to correct for any overall tilt that is approximately the same on all channels. Repeat step 13.

ALIGNMENT INSTRUCTIONS (cont)

SOUND IF ALIGNMENT

Connect the negative lead of a 10 volt bias supply to point \diamond . Positive to chassis.
 In the following steps the signal level may be reduced by disconnecting the lead from the terminal at point \diamond and connecting a 1meg potentiometer from point \diamond to chassis. The lead is then connected to the center arm of the control. This arm is then used to control the level of the signal applied to the Sound IF strip. Start alignment with the control turned to maximum signal.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
15. .001mfd	High side to point \diamond . Low side to chassis.	4.5MC (400v FM Mod. 15KC swp)	Any non-interfering channel	DC probe thru diode probe (Fig. 5) to pin 1 (grid) of Audio Det. Common to chassis.	A8	Connect a jumper from pin 7 (grid) of Audio Det. to chassis. Adjust for maximum deflection. Set generator for 1 volt on VTVM. Use peak with slug nearest top of coil form.
16. "	"	"	"	"	A9, A10	Adjust for maximum deflection. Set generator for 1 volt on VTVM. Remove VTVM, diode probe and jumper.
17. "	"	"	"	USE SCOPE Across voice coil	All	Starting with slug fully counterclockwise, adjust to a peak. Continue turning clockwise until a second peak is reached and adjust for maximum at this second peak. Decrease signal until detector breaks out of lock as indicated by jagged portions of the sine wave on scope. Retouch A9 for symmetrical breakout similar to Fig. 6.

ALTERNATE SOUND IF ALIGNMENT USING FM GENERATOR

Connect the negative lead of a 10 volt bias supply to point \diamond . Positive to chassis.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
15. .001mfd	High side to point \diamond . Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	DC probe thru diode probe (Fig. 5) to pin 1 (grid) of the Audio Det. Common to chassis. Connect scope across speaker voice coil.	A8	Connect a jumper from pin 7 (grid 3) of Audio Det. to chassis. Adjust A8 for maximum deflection on VTVM. Use peak with slug nearest top of coil form.
16. "	"	"	"	"	A9, A10	Adjust for maximum deflection. Set generator output for 1 volt on VTVM. Peak with maximum core separation. Repeat steps 15 and 16.
17. "	Remove the diode probe and jumper. Turn off the signal generator and tune in the strongest signal in the area. Set Volume control for normal volume. Set All so that core is flush with the top of coil form. Observe scope and listen to sound. Change bias at point \diamond to zero. Adjust All clockwise to peak. Continue clockwise to a louder peak, and adjust for maximum output at this second peak. Gradually decrease the signal until sound becomes distorted. Maintain distorted signal and adjust A9 for maximum output.					

4.5MC TRAP ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
18. .001mfd	High side to point \diamond . Low side to chassis.	4.5MC (400v AM)	Any non-interfering channel	USE SCOPE Vert. Amp. thru demodulator probe to pin 6 (plate) of 1st Chroma Bandpass Amp. Low side to chassis.	A12	Adjust for MINIMUM 400v indication on scope.

CHROMA BANDPASS ALIGNMENT

The following alignment will require the use of an RCA RF Modulator (WG-304A) or similar device.
 Connect the negative lead of a 7 volt bias supply to point \diamond . Positive to chassis.
 Connect a clip lead from point \diamond to chassis.
 Turn Color Control fully clockwise.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
19. .1mfd	High side to pin 2 (grid) of 1st Chroma Bandpass Amp. Low side to chassis.	3.58MC (3-5MC Sweep)	3.08MC 4.08MC	Any non-interfering channel	Vert. Amp. thru demodulator probe (Fig. 7) to pin 7 (grid) of "X" Demodulator. Low side to chassis.	A13, A14	Adjust for response similar to Fig. 8 with equal marker height.
20. "	Turn Brightness, Contrast, and Noise Controls fully counterclockwise. Connect a 330Ω Resistor and a 4mfd Capacitor in series from plate (pin 6) of 1st Chroma Bandpass Amp. to chassis.						
21. Direct	High side of sweep generator to Video Sweep Input of RF Modulator. High side of signal generator to Picture Carrier Input of RF Modulator. Output of RF Modulator across antenna terminals.	3MC (6MC Swp.) Set signal generator to unused channel	3.08MC 4.08MC	Unused Channel	Vert. Amp. thru demodulator probe (Fig. 7) to pin 7 (grid) of "X" Demodulator. Low side to chassis.	A15	Remove clip lead between point \diamond and chassis. Adjust for response similar to Fig. 9. Peak with core nearest chassis end of coil form.
22. "	"	"	"	"	"	"	Disconnect the 330Ω Resistor and the 4mfd Capacitor from V17. Check for response similar to Fig. 10. If necessary, retouch A13, A14, & A15 to obtain desired response.

RCA VICTOR CHASSIS
CTC9A, B, F, H, N, P

FOLDER 1

MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Suggested Alignment Tools:

B3, B4 . . . GENERAL CEMENT #8606, 8606L, 8282, 9295
WALSCO #2526, 2543, 2544, 2545

Connect a 0-500MA meter in series with the cathode circuit of the Horizontal Output tube. Connect a .47mfd capacitor across the meter terminals. Connect a 0-1MA meter in series with the cathode circuit of the HV Regulator by removing the test jumper and connecting the meter in its place. Connect the high side of the scope thru a low capacity probe to point \diamond . Low side to chassis. Connect the DC probe of the VTVM thru a high voltage probe to the High Voltage Rectifier "cup". Common to chassis.

Set the Focus control fully counterclockwise. Set the High Voltage Adjust at two-thirds clockwise rotation. Tune the receiver to a station signal and synchronize the picture. Adjust the Horizontal Waveform slug (B3) for waveform similar to Fig.11 with the round and sharp peaks at equal amplitudes. Keep the picture in sync during this adjustment with the Horizontal Hold.

Adjust the Horizontal Linearity slug (B4) for MINIMUM current indication on the 500MA meter.

Adjust the High Voltage Adjust for 23.5KV on the VTVM. Check the current reading on the meter. It should not exceed .8MA (19 watts).

AGC ADJUSTMENT

Tune in the strongest signal in the area. Connect the high side of a scope to point \diamond . Low side to chassis. Adjust the AGC control for 10 volts peak to peak on the scope.

NOISE INVERTER ADJUSTMENT

Connect the Vertical amplifier of the scope to point \diamond . Low side to chassis. Turn the Noise control fully counterclockwise. Turn slowly clockwise while observing the scope, when the tips of the sync pulses appear to be clipped, back off until the clipping just disappears.

COLOR AFC ALIGNMENT

Connect the Vertical amplifier of the scope to point \diamond . Low side to chassis. Connect the DC probe of the VTVM thru a 470K resistor to pin 2 (plate) of Chroma Sync Phase Detector. Common to chassis. Set the Tint control to the center of its range. Turn the Killer Threshold control fully counterclockwise. Connect a short clip from point \diamond to chassis. Adjust A16 for maximum deflection on the VTVM. If the Chroma Reference Oscillator is not running, no reading will be obtained. In which case adjust A18 just enough to start the oscillator and then adjust A16. Adjust A17 for maximum deflection on the VTVM. Make sure the oscillator is running and locked in.

Connect a clip lead from point \diamond to chassis. Disconnect the VTVM. Adjust A18 until the Color bars stand still on the screen or drift slowly by. Move the scope connection to point \diamond .

Remove the clip lead from point \diamond . Observe the bar pattern on the scope and retouch A17 if necessary to obtain proper response curve similar to R-Y in Fig. 12 with equal change when rotating the Tint control from one end to the other.

After this adjustment return the Tint control the nominal setting. Move the scope connection to point \diamond . If necessary, retouch A16 for proper B-Y signal as shown in Fig. 12.

Move scope connection to point \diamond . Check for proper G-Y signal and repeat adjustment of A17, A16 if necessary. Remove all clip leads and test equipment. Switch to an unused channel and adjust the Killer Threshold control to the point where color just disappears from the noise pattern on the screen.

PRELIMINARY CONVERGENCE ADJUSTMENTS

Connect the output of a white dot generator to the antenna terminals. Pre-set all Red, Green and Blue Horizontal and Vertical Convergence controls and coils to the center of their ranges.

Adjust Red, Green and Blue Convergence magnets and the Lateral Magnet to produce a white dot in the center of the screen. Keep the screen in sharp focus during this adjustment. Switch the generator to standby position.

COLOR PURITY ADJUSTMENTS

If necessary, demagnetize picture tube and associated components.

Set the red tabs of the Purity Magnet together. Set the Edge Purity Magnets so that the two magnets are in the same relative position one above the other. Loosen the yoke clamp and slide the deflection yoke to the rear as far as possible.

Shunt test points \diamond and \diamond to chassis thru individual 100K resistors. Slide Purity Magnet around the neck of the picture tube and at the same time spread the red tabs apart to produce a uniform red screen area at the center of the screen.

Move the Yoke forward and adjust for best overall red screen without neck shadow.

Adjust so that any color impurities occur at the extreme edges of the screen.

Adjust the Screen controls for a white raster and adjust the Edge Purity Magnets for best edge purity. Maximum correction is obtained with the open ends of the magnets 180 degrees apart. Rotate both magnets simultaneously to achieve the desired results.

VERTICAL CONVERGENCE ADJUSTMENTS

Recheck the "Preliminary Convergence Adjustments" for correct setting of the Red, Green and Blue magnets and the Lateral Magnet to produce a white dot in the center of the screen.

Loosen the two screws holding the Convergence board, slide the board to the left and remove. Fasten the board to the top rail of the cabinet with the two screws provided. Place so that the controls face forward.

Switch the dot generator to vertical bars and adjust the Red and Green tilt controls for equal displacement of the Center bar at the top and bottom.

Adjust the Red and Green Amplitude controls until the red and green lines are straight. Gradually reduce the Amplitudes to converge the red, green and blue along the center lines, retouching the Red and Green Tilt controls to keep the lines parallel. The center line should converge to produce a white line from top to bottom or show slight displacement of the Red on one side and the green on the other with all three parallel from top to bottom. Readjust the Convergence Magnets if necessary to superimpose the three parallel lines to produce a single white line from top to bottom.

Switch the generator to horizontal bars. Referring to the top and bottom bars as a reference, adjust the Blue Vertical Tilt and Amplitude controls for equal downward displacement of the blue horizontal from the extreme top and bottom lines of the raster. Reduce the Blue Vertical Amplitude control to converge all the lines at the center, retouching the Blue Vertical tilt SLIGHTLY, if necessary making all lines white at the center from top to bottom.

HORIZONTAL CONVERGENCE ADJUSTMENTS

Switch the generator to crosshatch pattern. If necessary, retouch convergence magnets to produce good convergence at the center of the screen. Adjust coil B-1 so that the blue horizontal line at the right center of the screen is a straight line.

Adjust control B-2 for a straight blue line to the left of the raster. Adjust R-G-1 to make the vertical lines at the right side of the raster converge. Adjust R-G-2 to make the horizontal red and green lines at the right side of the screen converge. Readjust B-1 to make the blue lines at the right center fall on the red and green converged lines.

Retouch R-G-1 for convergence of the vertical lines at the right side.

Adjust control R-G-3 to make the vertical lines at the left side converge.

Adjust control R-G-4 to make the red and green horizontal lines at the left side of the screen converge.

Readjust B-2 to make the blue lines at the left center fall on the converged red and green lines.

The picture or pattern should now show proper convergence over the entire screen.

GRAY SCALE ADJUSTMENTS

Set Green and Blue Screen controls two-thirds clockwise from minimum.

Set the Green and Blue Background controls to the center of their ranges.

Set the Red Background control fully counterclockwise and do not change it from this point on. Tune in a station and then turn the Brightness and Contrast controls fully counterclockwise. Use a program which displays the full range of contrast conditions from high lights to low lights.

Advance the Brightness control to obtain a picture of normal brightness.

The control will usually fall approximately two-thirds clockwise. DO NOT overload.

Adjust the Blue and Green Background controls to produce white in the highlight areas of the picture.

Reduce the Brightness to produce a low level brightness picture and observe the lowlight areas (dark objects) of the picture. Some color will prevail in the lowlight areas, as indicated below.

1. Yellow in the lowlight areas. Blue Screen must be turned clockwise.
2. Magenta in the lowlight areas. Green Screen must be turned clockwise.
3. Red in the lowlight areas. Blue and Green Screens must be turned clockwise.
4. Green in the lowlight areas. Green screen must be turned counterclockwise.
5. Blue in the lowlight areas. Blue Screen must be turned counterclockwise.
6. Cyan in the lowlight areas. Blue and Green Screens must be turned counterclockwise.

Depending upon which of the above conditions prevail, turn the appropriate control in the indicated direction until a gray picture is obtained, then SLIGHTLY beyond in the same direction.

Advance the Brightness control to produce a well lit picture. Adjust the Blue and Green Background controls for white in the highlight areas of the picture. DO NOT ADJUST THE RED BACKGROUND CONTROL. Return the Brightness control to the lowlight area and retouch the proper Screen controls for gray in the lowlight areas.

Check for proper tracking at all light levels and retouch as necessary being sure not to change Red Background control setting.

ALIGNMENT INSTRUCTIONS (cont)

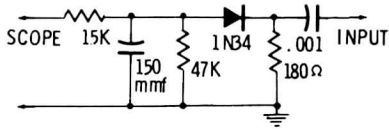


FIG. 1

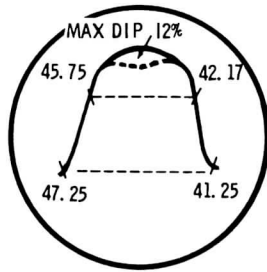


FIG. 2

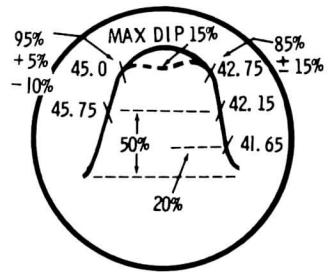
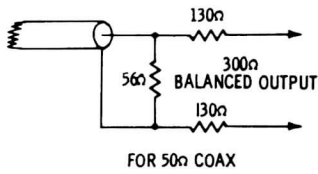
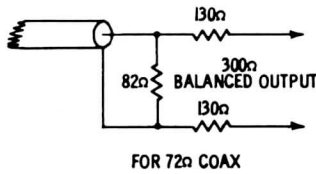


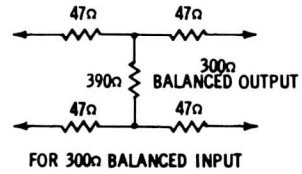
FIG. 3



FOR 50Ω COAX



FOR 72Ω COAX



FOR 300Ω BALANCED INPUT

FIG. 4

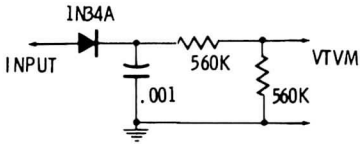


FIG. 5

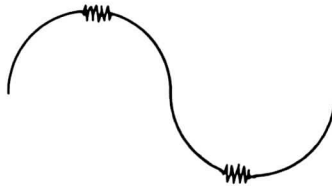


FIG. 6

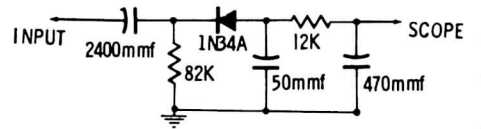


FIG. 7



SET TWO MARKERS AT EQUAL HEIGHT

FIG. 8



SET MARKERS AT EQUAL HEIGHT

FIG. 9

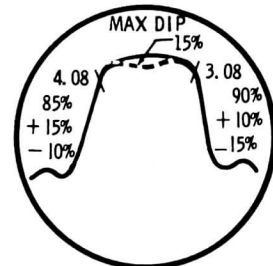


FIG. 10

ADJUST FOR EQUAL PEAKS

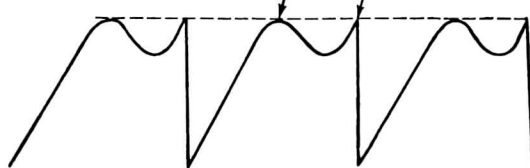


FIG. 11

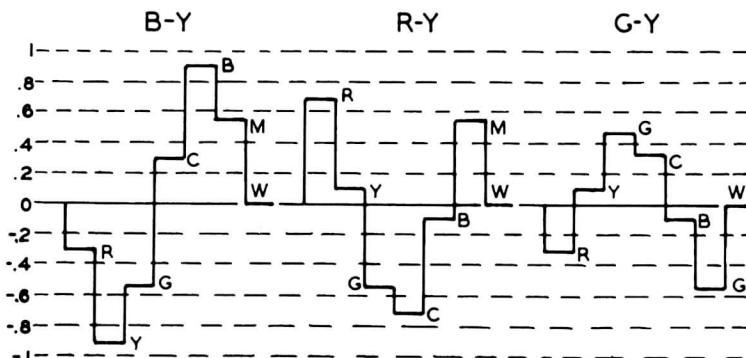
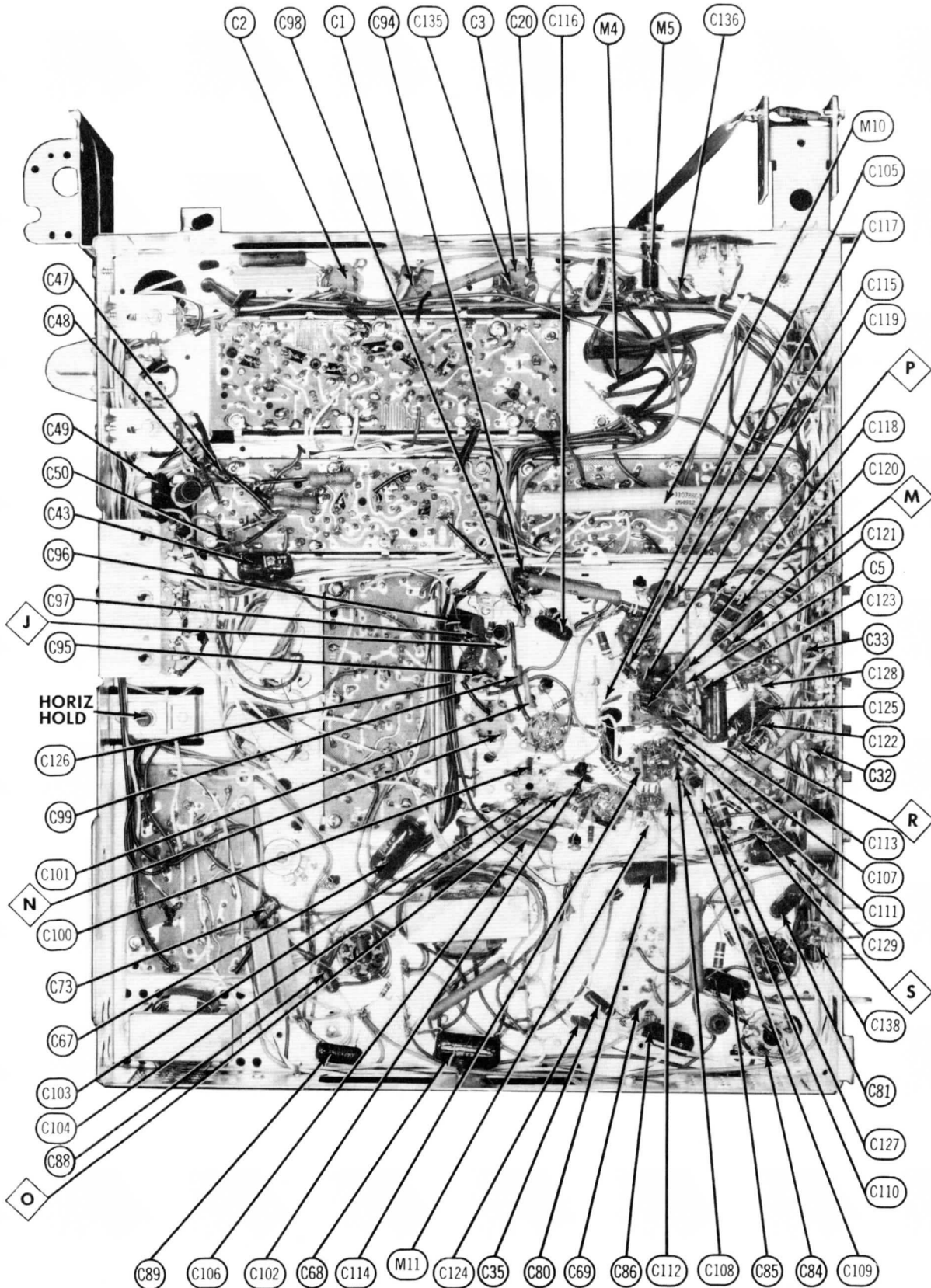


FIG. 12

SET 459 FOLDER 1

RCA VICTOR CHASSIS
CTC9A, B, F, H, N, P

FOLDER 1



CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION

PARTS LIST AND DESCRIPTIONS

TUBES

CBS			GENERAL ELECTRIC		RAYTHEON			SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	
V1	1st Video IF Amp.	6BZ6	V15	Focus Rectifier	1V2	V16	HV Regulator	6BK4	
V2	2nd Video IF Amp.	6BZ6	V17	Chroma Bandpass Amp. - Color Killer	6EA8	V18	Burst Amp.	6EW6	
V3	3rd Video IF Amp. Sync Sep.	6AW8A	V19	Chroma Sync Phase Det.	6AL5	V19	Chroma Ref. Osc. Control- Chroma Ref. Osc.	6EA8	
V4	Video Amp. -AGC Keying	6AW8A	V20	"X" Demodulator - "Z" Demodulator	12AZ7	V21	R-Y Amp. - B-Y Amp.	6CG7	
V5	Video Output	12BY7A	V22	Horiz. Blanking Amp. - G-Y Amp.	6CG7	V23			
V6	Sound IF Amp. -Noise Inv.	6EA8							
V7	Audio Det.	6DT8							
V8	Audio Output	6AQ5A							
V9	Sync Amp. -Vert. Mult.	6CG7							
V10	Vert. Mult. -Vert. Output	6AQ5A							
V11	Horiz. AFC-Horiz. Osc.	6CG7							
V12	Horiz. Output	6DQ5							
V13	Damper	6AU4GTA							
V14	HV Rectifier	3A3							

PICTURE TUBE

ITEM No.	REPLACEMENT DATA					NOTES
	RCA Victor PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V24	2ICYP22		2ICYP22			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	RCA Victor PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	
C1	160	250	106364	AFH1-31-75	XA0315	FP131	TMS-34	TVL-1540	
C2A	▲160	250	106363	AFH3-178-60	D0360 BR6045	FP341.6		TVLS-3711. 2*	
B	▲50	450							
C	▲50	50							
C3A	▲80	450	105219	AFH3-182-80	B0489 BR10035	FP342.8	TMD-93	TVLS-3723. 7*	
B	▲50	350					TD-100-200		
C	▲100	200							
C4	2	350	78920	PRSI705	BR245	TC60	TD-2-450	TVA-1701	
C5	40	25	105758	PRSI470	BR4015	TC48	TD-40-150	TVA-1413	

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

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING			REPLACEMENT DATA						NOTES
	CAP.	VOLT	TOL	RCA Victor PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.		
C6	.1	200		105298	P288N-1	DF-104	CUB2P1 C10V9C	GEM-201	2TM-P1	
C7	9		NPO ±. 25mmf	105299						
C8	150		NPO 5%	102237		DTZ-150		CNO-315	10TCC-T15	
C9	680		N2200 10%	77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C10	1000			77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C11	1000			77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C12	1000			101725	DI-330	DD-331	LI0T33	JL-333	10TS-T33	
C13	330		10%	77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C14	1000			77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C15	1000			106390	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C16	2		N3300 ±. 25 mmf	103411						
C17	1.5		N3300 ±. 25 mmf	105302	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C18	470		N1500 10%	77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C19	1000			73748	BPD-0015	DD-152	BYA10D15	B-215	5HK-D15	
C20	1000			77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C21	1500			105303	DI-10	DD-100	L10Q1	CNO-410	10TS-Q10	
C22	1000			105303	DI-10	DD-100	L10Q1	CNO-410	10TS-Q10	
C23	10		10%	102793	DI-22	DD-220	L10Q22	CNO-422	10TS-Q22	
C24	10		10%	105304	DI-1000	DTZ-100	C10T1C	CNO-100	10TCC-T10	
C25	22		10%	102234A	DI-1000	DD-102	PM6D1	JL-210	10TS-D10	
C26	100		5%	105310	P288N-22	DF-104	CUB2P1	GEM-201	2TM-P1	
C27	1000		10%	104890	DI-390	DD-391	CUB2P22	GEM-2022	2TM-P22	
C28	.1	200		105310	DI-1500		LI0T39	MCB243	10TS-T39	
C29	.22	200		104890	DI-1500		PM6D15	JL-215	10TS-D15	
C30	390		10%	77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C31	1500		10%	77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C32	1000			77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C33	1000			77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C34	1000			77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C35	.001	1600		77252	P1684CM-001	DD30-1000	CUB16D1	GEM-1621	16TM-D1	
C36	1000			77252	BPD-001	DD-102	BYA10D1	B-210	5HK-D10	
C37	.22	200		73960	P288N-22	DD-103	CUB2P22	GEM-2022	2TM-P22	
C38	10000			106384	BPD-01	DD-103	BYA10S1	B-110	5HK-D10	
C39	5		N1500 ±. 5mmf	104890	DI-1500		PM6D15	JL-215	10TS-D15	
C40	1500		10%	73960	BPD-01	DD-103	BYA10S1	B-110	5HK-S10	
C41	10000			105248	DI-560	DD-561	IR5T56	JL-356	10TS-T56	
C42	560		10%	73960	P688N-1	DF-104	CUB6P1	GEM-601	6TM-P1	
C43	.1	600		73960	BPD-01	DD-103	BYA10S1	B-110	5HK-S10	
C44	10000			73960	BPD-01	DD-103	BYA10S1	B-110	5HK-S10	
C45	10000			73960	BPD-01	DD-103	BYA10S1	B-110	5HK-S10	
C46	.047	200		73960	P288N-047	DF-503	CUB2S47	GEM-4147	2TM-S47	
C47	.0068	400		73960	P488N-0068	D6-682	CUB6D68	GEM-6268	6TM-D68	
C48	.0018	600	10%	73960	P288N-047	DF-503	CUB6D68	GEM-6268	6TM-D68	
C49	.0047	600	10%	73960	P488N-0068	D6-682	PM6D2	GEM-1622	6TM-D2	
C50	1000		10%	102234A	V84C6D47-10%	DD-102	PM6D47	GTM-6247	6TM-D47	
					DI-1000	DD-102	PM6D1	JL-210	10TS-D10	

SET 459

FOLDER 1

RCA VICTOR CHASSIS
CTC9A, B, F, H, N, P

FOLDER 1

CAPACITORS (cont)

Main table for CAPACITORS (cont) with columns for ITEM No., RATING (CAP, VOLT, TOL), REPLACEMENT DATA (RCA Victor, AEROVOX, CENTRALAB, CORNELL-DUBILIER, MALLORY, SPRAGUE), and NOTES.

Some versions may use 470mmf in this application (Part #02230).

CONTROLS

Main table for CONTROLS with columns for ITEM No., RATING (RESISTANCE, WATTS), REPLACEMENT DATA (RCA Victor, CENTRALAB, CLAROSTAT, IRC, MALLORY), and INSTALLATION NOTES.

Table for CAPACITORS (cont) with columns for ITEM No., RATING (RESISTANCE, WATTS), REPLACEMENT DATA (RCA Victor, CENTRALAB, MALLORY), and NOTES.

"Concentrikit" Equivalent: K-15 With Base Element

- "STA-LOC" Equivalent: FB125A, RU254L, OF...
Ch. CTC9F, H use Color, Volume & Switch (P)
Ch. CTC9N, P use Color control (Part #10758)
Ch. CTC9F, H use Tint-Brightness (Part #10758)
Ch. CTC9F, H, N, P use Tone-Height (Part #10758)
Ch. CTC9F, H, N, P use Contrast-Vert. Lin.
Ch. CTC9F, H, N, P use Vert. Hold-Killer T

All wattages 1/2 watt, or

Table for CAPACITORS (cont) with columns for ITEM No., RATING, REMARKS, ITEM No., RATING.

* Alternate value.

PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS (cont)

ALLOY PART No.	SPRAGUE PART No.	NOTES
M-16225	5HK-S10	
0	5HK-S10	
M-411	4TM-P1	
M-433	107CU-Q33	
M-4133	4TM-S33	
M-39	5GA-T39	
M-411	4TM-S1	
M-16282	8TM-D8	
0	5HK-S10	
M-6156	B Shaft	
M-611	6TM-S1	
M-4133	4TM-S33	
M-4256	6TM-D6	
M-2047	2TM-P47	
M-2047	2TM-P47	
M-468	107CU-Q82	
M-10	5HK-D10	
M-6233	MS-368	
M-4027	8TM-D33	
M-4027	4TM-P25	
M-6233	6TM-D33	
M-6233	4TM-P25	
M-611	5HK-S10	
M-601	6TM-S1	
M-6147	8TM-P1	
M-2047	6TM-S47	
M-2047	2TM-P47	
M-442	2TM-P47	
M-2015	5GA-Q22	
M-601	2TM-P15	
M-456	6TM-S1	
M-6233	60CA-Q66	
M-6147	8TM-D33	
M-447	6TM-S47	
M-4147	60CA-Q47	
M-22	2TM-S47	
M-4147	5GA-T22	
0	2TM-S47	
M-4147	5HK-S10	
M-427	107S-Q27	
M-5312	107S-Q27	
0	5GA-T12	
M-4147	5HK-D10	
0	5HK-S10	
0	MS-333	
M-312	107CC-T12	
M-201	2TM-P1	
0	5HK-S10	
0	107CC-V39	
M-415	107CC-Q15	
0	5HK-S10	
0	5HK-S10	
322	107S-T22	
0	5HK-S10	
M-482	107S-Q82	
M-433	107CC-Q33	
M-4147	4TM-S47	
M-433	107CC-Q33	
E255	MS-21	
M-4147	2TM-S47	
M-411	4TM-S1	
M-4015	4TM-P15	
M-411	4TM-S1	
M-4015	4TM-P15	
M-310	4TM-S1	
M-4022	4TM-P22	
382	107S-T82	
M-411	4TM-S1	
M-4015	4TM-P15	
M-201	2TM-P1	
M-2056	2WF-S56	
M-201	2TM-P1	
0	2WF-S82	
M-201	2TM-P1	
10	5HK-D10	
10	5HK-S10	
10	5HK-S10	
M-6147	6TM-S47	
M-411	4TM-S1	

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST-ANCE	WATTS	RCA Victor PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	
R6A	2.5meg	$\frac{1}{2}$	105204	AB-83	B47-2.5meg-S	B11-239	SU-565	Noise Inverter
B	Shaft			AK-1	Not Req.	TM4	Not Req.	AGC
R7A	1meg	$\frac{1}{2}$	105211	BX-69	B47-1meg-S	B11-137	TA16L	AGC
B	Shaft			Not Req.	Not Req.	TM4	Not Req.	
R8A	700K	$\frac{1}{2}$	107301	AB-66	A47-750K-S	B11-136	PTA754L	Red Background
B	Shaft			AK-1	F KS-1/4	TM4	Not Req.	
R9A	1meg	$\frac{1}{2}$	105205	BX-69	B47-1meg-S	B11-137	SU-54	Green Screen
B	Shaft			Not Req.	Not Req.	TM4	Not Req.	
R10A	700K	$\frac{1}{2}$	107301	AB-66	A47-750K-S	B11-136	PTA754L	Green Background
B	Shaft			AK-1	F KS-1/4	TM4	Not Req.	
R11A	1meg	$\frac{1}{2}$	105205	BX-69	B47-1meg-S	B11-137	SU-54	Blue Screen
B	Shaft			Not Req.	Not Req.	TM4	Not Req.	
R12A	700K	$\frac{1}{2}$	107301	AB-66	A47-750K-S	B11-136	PTA754L	Blue Background
B	Shaft			AK-1	F KS-1/4	TM4	Not Req.	
R13A	15Ω	2(WW)	105207	WN-150	A58-15	R15L	Not Req.	Vert. Centering
B	Shaft			Not Req.	F KS-1/4	M100MPK	Not Req.	Focus
R14	100K	2(WW)	105208A	WW-104				Horiz. Centering
R15	100Ω	2(WW)	105209					IV Adjust
R16A	500K	$\frac{1}{2}$	105210	BX-59	B47-500K-S	B11-133	SU-50	Shunt Peaking Coil
B	Shaft			Not Req.	Not Req.	TM4	Not Req.	
R17	120Ω	1(WW)	106320					Vert. Red Amp.
R18	120Ω	1(WW)	106320					Vert. Green Amp.
R19	120Ω	1(WW)	106320					Vert. Blue Amp.
R20	30Ω	1(WW)	106321					Vert. Red Tilt
R21	30Ω	1(WW)	106321					Vert. Green Tilt
R22	60Ω	1(WW)	105059				PFL-60A	Vert. Blue Tilt
R23	60Ω	1(WW)	105059				PFL-60A	Left Horiz. R-G-3
R24	80Ω	1(WW)	105059				PFL-60A	Left Horiz. R-G-4
R25	120Ω	1(WW)	106320					Left Horiz. B-2
R26	750Ω	$\frac{1}{2}$	105297					Sound Reject
R27	10K	1/4	106388					Sound Adjust

- "Concentrivid" Equivalent: K-15 With Base Elements & Shafts: B17-208, P17-024 (Panel) B11-130, R1-111 (Rear)
- "STA-LOC" Equivalent: FB152A, RU254L, OF812, IS1437.
- ① Ch. CTC9F, H use Color, Volume & Switch (Part #107412).
Ch. CTC9N, P use Color control (Part #107582), Volume with Switch (Part #107581).
- ② Ch. CTC9F, H use Tint-Brightness (Part #107413). Ch. CTC9N, P use Tint-Brightness (Part #107580).
- ③ Ch. CTC9F, H, N, P use Tone-Height (Part #107418).
- ④ Ch. CTC9F, H, N, P use Contrast-Vert. Lin. (Part #107414).
- ⑤ Ch. CTC9F, H, N, P use Vert. Hold-Killer Threshold (Part #107415).

ITEM No.	USE
L1	1st Video IF
L2	47.25MC Trap
L3	41.25MC Trap
L4	2nd Video IF
L5	Flt. Choke
L6	3rd Video IF
L7	Flt. Choke
L8	RF Choke
L9A	4th Video IF
B	41.25MC Trap
L10	RF Choke
L11	4.5MC Trap
L12	RF Choke
L13	Series Peaking Coil
L14	Shunt Peaking Coil
L15	Series Peaking Coil
L16	Shunt Peaking Coil
L17	Series Peaking Coil
L18	Series Peaking Coil
L19	Shunt Peaking Coil
L20	RF Choke
L21	1st Sound IF
L22	2nd Sound IF
L23	Quadrature Coil
L24	1st Chroma Grid Coil
L25	1st Chroma Bandpass Trans.
L26	Burst Amp. Trans.
L27	Chroma Ref. Osc. Control Plate Coil
L28	Chroma Ref. Osc.
L29	RF Choke
L30	Series Peaking Coil
L31	Series Peaking Coil
L32	RF Choke
L33	RF Choke

* Parallel with 1meg resistor.
▲ Parallel with 1800Ω resistor.

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R28	2.7meg 5%		R85	150K		R142	33K 5% 1W	
R29	3300Ω 5%		R86	2.4meg 5%		R143	120K 5%	
R30	1000Ω		R87	2.4meg 5%		R144	470Ω	
R31	150Ω		R88	47K		R145	820Ω	
R32	47Ω 5%		R89	1meg		R146	10meg	
R33	1000Ω		R90	560K		R147	150K	
R34	150Ω		R91	33K		R148	470K	
R35	82Ω 5%		R92	10K 2W		R149	1500Ω	(4700Ω) *
R36	3300Ω 10W		R93	8200Ω		R150	33K	
R37	18K 4W	#106957	R94	100K		R151	1000Ω	
R38	470Ω		R95	10K		R152	27K	(33K) *
R39	5600Ω 4W	#105222	R96	8.2meg 5%		R153	2.2meg 5%	
R40	150Ω		R97	1meg 5%		R154	470K	
R41	10K		R98	1.8meg		R155	470K	
R42	8200Ω 5%		R99	1.5meg		R156	6.8meg 5%	
R43	12K 5%		R100	33K		R157	270Ω 5%	
R44	180K		R101	22K 5% 2W		R158	33K	
R45	10meg 5%		R102	470K		R159	1500Ω 5%	
R46	39K		R103	2.2meg 5%		R160	15K 2W	
R47	3.9meg		R104	47K 5% 1W		R161	27K 2W	
R48	6800Ω 5% 7W	#105228	R105	120K		R162	680Ω 5%	
R49	22K		R106	330K		R163	47K 1W	
R50	220Ω		R107	47K		R164	1000Ω	
R51	150K		R108	15K 5%		R165	47K	
R52	22K		R109	22K		R166	3900Ω 5% 1W	
R53	56Ω		R110	330K		R167	3900Ω 5% 1W	
R54	1500Ω 5%		R111	82K		R168	39Ω 5% 1W	
R55	82K 2W		R112	680K 5%		R169	820Ω 1W	
R56	390K 5%		R113	8200Ω		R170	1meg	#105224
R57	330K 5%		R114	270K 5%		R171	15K 3W	
R58	330K 5%		R115	1meg		R172	120K	
R59	100K 5%		R116	68K		R173	470K	
R60	47K		R117	100K 1W		R174	1meg	
R61	1800Ω 5%		R118	33K 2W		R175	15K 3W	#105224
R62	82K		R119	10meg		R176	120K	
R63	270K		R120	100Ω		R177	470K	
R64	56K		R121	47Ω		R178	560Ω 5% 2W	
R65	22K 2W		R122	120K 1W		R179	39K 5% 4W	#105753
R66	220Ω		R123	16K 4W	#106365	R180	3300Ω 1W	
R67	68Ω		R124	56K 2W		R181	1meg	
R68	1000Ω		R125	3.6Ω	#106366	R182	47K 5%	
R69	2700Ω		R126	68K 2W		R183	15K 3W	
R70	1800Ω 5% 3W	#107322	R127	27K		R184	120K	
R71	2700Ω 5% 7W	#105223	R128	22meg 5% 2W		R185	470K	
R72	100K 2W		R129	22meg 5% 2W		R186	100Ω 1W	
R73	100K 2W		R130	22meg 2W		R187	100Ω 1W	
R74	100K 2W		R131	1meg 2W		R188	100Ω 1W	
R75	3.3meg		R132	100meg 5% 1W		R189	82Ω 1W	
R76	1meg		R133	1.5meg 5% 1W		R190	100Ω	
R77	100Ω		R134	1.5meg 5% 1W		R191	820K	
R78	3300Ω 3W	#103877	R135	10K		R192	820K	
R79	82Ω		R136	4700Ω 2W		R193	490 HOT	#107291
R80	3300Ω 3W	#103877	R137	270Ω 5%			7Ω COLD	
R81	470Ω		R138	50Ω	#107636	R194	1600Ω 10W	
R82	470K		R139	270Ω 5%		R195	1600Ω 10W	
R83	1meg		R140	2700Ω 7W	#105223	R196	10K 1W	
R84	1meg		R141	2.2meg		R197	47Ω	

* Alternate value.

INSTALLATION NOTES
Color ①
Volume, Tap @ 200K ①
Push-Pull Off-On
Tint ②
Brightness ②
Tone ③
Height ③
Contrast ③
Vert. Lin. ④
Vert. Hold ⑤
Killer Threshold ⑤

ITEM No.	DC RES.		RCA Victor PART No.
	PRI.	SEC.	
L34	81Ω		105197
L35	45Ω		100300

ITEM No.	RATINGS		
	CURRENT (Measured)	DC RES.	INDUCT (Ω CURR 1000)
L36	.450A	17Ω	.7 H

ITEM No.	USE	RCA Victor PART No.
L38	Right Horiz. Red-Green 1	105065
L39	Horiz. Blue 1	105065
L40	Right Horiz. Red-Green 2	105066
L41	Convergence Yoke Assy.	
A	Green Coil	106319
B	Blue Coil	106319
C	Red Coil	106319

ITEM No.	RATING			
	PRI.	SEC. 1	SEC. 2	SEC. 3
T1	117V ④ 3A	150V ④ 1.7A (AC)	5.3V ④ 2A	
	SEC. 3	SEC. 4	SEC. 5	

DESCRIPTIONS (Continued)

COILS (cont)

DATA		INSTALLATION NOTES
ITEM No.	PART No.	
B11-239	SU-565	Noise Inverter
TM4	Not Req.	
B11-137	TA161	AGC
TM4	Not Req.	
B11-136	PTA754L	Red Background
TM4	Not Req.	
B11-137	SU-54	Green Screen
TM4	Not Req.	
B11-136	PTA754L	Green Background
TM4	Not Req.	
B11-137	SU-54	Blue Screen
TM4	Not Req.	
B11-136	PTA754L	Blue Background
TM4	Not Req.	
B11-133	RI5L	Vert. Centering
	Not Req.	
TM4	M100MPK	Focus
	Not Req.	
B11-133	SU-50	HV Adjust
	Not Req.	
		Vert. Red Amp.
		Vert. Green Amp.
		Vert. Blue Amp.
		Vert. Red Tilt
PFL-60A	PFL-60A	Vert. Green Tilt
	PFL-60A	Vert. Blue Tilt
	PFL-60A	Left Horiz. R-G-3
	PFL-60A	Left Horiz. R-G-4
	PFL-60A	Left Horiz. B-2
	Sound Reject	
	Sound Adjust	

Coils & Shafts: B17-208, P17-024 (Panel)
 B11-130, R1-111 (Rear)
 IS1437.
 #107412).
 Volume with Switch (Part #107581).
 Ch. CTC9N, P use Tint-Brightness (Part #107580).
 #118).
 Part #107414).
 shield (Part #107415).

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA							NOTES
		RCA Victor PART No.	Grammer PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	Ram PART No.		
L1	1st Video IF	106385							
L2	47.25MC Trap	105306							
L3	41.25MC Trap	106391							
L4	2nd Video IF	106386							
L5	Fl. Choke								
L6	3rd Video IF	106387							
L7	Fl. Choke								
L8	RF Choke	100441	19-2864	19-2864	BC-566	4622		12uh	
L9A	4th Video IF	105294							
	B 41.25MC Trap								
L10	RF Choke	105308						12uh	
L11	4.5MC Trap	105295							
L12	RF Choke	78466							
L13	Series Peaking Coil	102201	19-4060 *	19-4060 *	TV-193 *	6110 *	VP-5	1.8uh	
L14	Shunt Peaking Coil	104904	19-3180	19-3180	TV-184	6180	VP-5 Δ	62uh	
L15	Series Peaking Coil	102196	19-3180 Δ	19-3180 Δ	TV-184 Δ	6180 Δ	VP-5 Δ	180uh	
L16	Shunt Peaking Coil	104904	19-3180	19-3180	TV-184	6180	VP-5	180uh	
L17	Series Peaking Coil	105311	19-3250 ■	19-3250 ■	TV-185 ■	6181 ■	VP-6 ■	250uh	
L18	Series Peaking Coil	105255	19-3250 Δ	19-3250 Δ	TV-185 Δ	6181 Δ	VP-6 Δ	250uh	
L19	Shunt Peaking Coil	106377	19-3060	19-3060	TV-193	6110		62uh	
L20	RF Choke	100441	19-2864	19-2864	BC-566	4622		12uh	
L21	1st Sound IF	106381							
L22	2nd Sound IF	106382							
L23	Quadrature Coil	106383							
L24	1st Chroma Grid Coil	107290						Tap @ 2.5Ω	
L25	1st Chroma Bandpass Trans.	105213							
L26	Burst Amp. Trans.	105214							
L27	Chroma Ref. Osc. Control Plate Coil	105216						Sec. tap @ 1.8Ω	
L28	Chroma Ref. Osc.	107289	17-6012	17-6012		6023		820uh	
L29	RF Choke	107296	19-1000	19-1000	BC-561	4602		1.1uh	
L30	Series Peaking Coil	102248	19-3660	19-3660	TV-205	6146		820uh	
L31	Series Peaking Coil	102248	19-3660	19-3660	TV-205	6146		820uh	
L32	RF Choke	100441	19-2864	19-2864	BC-566	4622		12uh	
L33	RF Choke	100441	19-2864	19-2864	BC-566	4622		12uh	

* Parallel with 1meg resistor. ■ Parallel with 8200Ω resistor. ① Wound on 1meg resistor. ③ Wound on 8200Ω resistor.
 Δ Parallel with 1800Ω resistor. Δ Parallel with 15K resistor. ② Wound on 1800Ω resistor. ④ Wound on 15K resistor.

TRANSFORMER (HORIZ. OSC.)

ITEM No.	DC RES.		REPLACEMENT DATA						NOTES
	PRI.	SEC.	RCA Victor PART No.	Halldorsen PART No.	Merit PART No.	Miller PART No.	Ram PART No.	Thordarson PART No.	
L34	81Ω		105197	HS-7	TV-165			HS-7	Horiz. Osc. Tap @ 29Ω Horiz. Waveform
L35	45Ω		100300						

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA						
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000 Hz)	RCA Victor PART No.	Halldorsen PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
L36	.450A	17Ω	.7 Hy.	105195						C-40X

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA								
		RCA Victor PART No.	Halldorsen PART No.	Merit PART No.	Miller PART No.	Ram PART No.	Rogers PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
L37	Horiz. Linearity	105196								
L38	Right Horiz.									
L39	Red-Green 1	105065								
L40	Horiz. Blue 1	105065								
L41	Right Horiz.									
L42	Red-Green 2	105066								
L43	Convergence Yoke Assy.									
A	Green Coil	106319								
B	Blue Coil	106319								
C	Red Coil	106319								

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA						
	PRI.	SEC. 1	SEC. 2	RCA Victor PART No.	Halldorsen PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
T1	117V ③ 3A	150V ④ 1.7A (AC)	8.3V ⑤ 2A	106358						
	SEC. 3	SEC. 4	SEC. 5							
	6.3V ⑥ 13A									

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA						
		RCA Victor PART No.	Halldorsen PART No.	Merit PART No.	Ram PART No.	Rogers PART No.	Stancor PART No.	Thordarson PART No.
T2	Vert. Output	106360						
T3	Vert. Convergence Choke	106381						
T4A	Yoke-Horiz. (12MH)	106305						
T5	Vert. (35MH)							
	Horiz. Output	106359						

RCA VICTOR CHASSIS CTC9A, B, F, H, N, P

TRANSISTORS

Transistors, unless otherwise listed.

REMARKS	ITEM No.	RATING	REMARKS
	R142	33K 5% 1W	
	R143	120K 5%	
	R144	470Ω	
	R145	820Ω	
	R146	10meg	
	R147	150K	
	R148	470K	
	R149	1500Ω	(4700Ω) *
	R150	33K	
	R151	1000Ω	(33K) *
	R152	27K	
	R153	2.2meg 5%	
	R154	470K	
	R155	470K	
	R156	6.8meg 5%	
	R157	270Ω 5%	
	R158	33K	
	R159	1500Ω 5%	
	R160	15K 2W	
	R161	27K 2W	
	R162	680Ω 5%	
	R163	47K 1W	
	R164	1000Ω	
	R165	47K	
	R166	3900Ω 5% 1W	
	R167	3900Ω 5% 1W	
	R168	39Ω 5% 1W	
	R169	820Ω 1W	
	R170	1meg	
	R171	15K 3W	#105224
	R172	120K	
	R173	470K	
	R174	1meg	
	R175	15K 3W	#105224
	R176	120K	
	R177	470K	
	R178	560Ω 5% 2W	
#106365	R179	39K 5% 4W	#105753
	R180	3300Ω 1W	
#106366	R181	1meg	
	R182	47K 5%	
	R183	15K 3W	
	R184	120K	
	R185	470K	
	R186	100Ω 1W	
	R187	100Ω 1W	
	R188	100Ω 1W	
	R189	82Ω 1W	
	R190	100Ω	
	R191	820K	
	R192	820K	
	R193	.49Ω HOT	
	R194	79Ω COLD	#107291
#107636	R195	1600Ω 10W	
	R196	1600Ω 10W	
#105223	R197	10K 1W	
		47Ω	

FOLDER 1

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA							NOTES
			RCA Victor PART No.	Haldorson PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
	PR1.	SEC.								
T6	7600Ω	3-4Ω	100037	26848	A-3020	AU-604	A-3849	26848	S-9Z	

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				RCA Victor PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	6" x 9"	PM	3-4Ω	107304 ①	69A3	
	8"	PM		107475 ②		
	4" x 6"	PM		107476 ③		
	4" x 6"	PM		107477 ④		
	3 1/2"	PM	8-10Ω	102119 ⑤	3A15T29	

① Models 210CK855, 6, 7, & U, 210CK885, 6, 9 & U, 210CK905, 6, 7, & U, 210CK940, 6, & U.

② Models 210CT822U, 210CK920, 4, & U, 210CK935, 6, & U.

③ Models 210CTR845, 7

④ Models 210CT835, 6, 7, & U.

⑤ Models 210CK855, 6, 9, & U, 210CK905, 6, 7, & U, 210CK920, 4, & U, 210CK935, 6, & U, 210CKR940, 6, & U.

RECTIFIERS

ITEM No.	RATING CURRENT (Measured)	REPLACEMENT DATA					NOTES
		RCA Victor PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	SARKES TARZIAN PART No.	SYLVANIA PART No.	
M1	.450A	106379 ①	HA505 ①	SD-500 ①	F6 ①	SR500 ①	① Silicon Type. ② Selenium Type.
M2	.450A	106379 ①	HA505 ①	SD-500 ①	F6 ①	SR500 ①	
M3		105064 ②					

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			RCA Victor PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M4	2½" #21 Wire C	3½A 250V	102792	106356	33203.5	346007	C 3½	HC 2½ to 3½
M5			106357		(C 3½A-250V)			
M6	3AG	3/4A 250V P/T	105252		318.750 (3/4A-250V 3AG-P/T)		GJV 3/4	

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		RCA Victor PART No.	CBS PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M7	1N60	76675B	1N60	1N60	1N295	Video Det. (Pigtail) Sound Det. (Pigtail)
M8	1N60	76675B	1N60	1N60	1N295	

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M9	Tuner	KRK48D	VHF Ch. CTC9A
	Tuner	KRK75C	VHF Ch. CTC9F
	Tuner	KRK75D	VHF Ch. CTC9N
	Tuner	KRK49D	VHF with UHF provisions Ch. CTC9B
	Tuner	KRK76C	VHF with UHF provisions Ch. CTC9H
	Tuner	KRK76D	VHF with UHF provisions Ch. CTC9P
	Tuner	KRK66M	UHF Ch. CTC9B
	Tuner	KRK66AA	UHF Ch. CTC9H
	Tuner	KRK66AB	UHF Ch. CTC9P
	M10	Delay Line	105253
M11	Crystal	105330	3.579545MC
M12	Magnet	105024	Convergence (3 used)
M13	Magnet	103172	Lateral Assembly
M14	Magnet	105027	Color Equalizer (12 used)
M15	Magnet	106460	Color Equalizer Ring
M16	Purity Coil Ring	79604	
	Printed Board	107293	Sound, Less Tubes
	Printed Board	107294	Video IF, Less Tubes
	Printed Board	107511	Video, Less Tubes
	Printed Board	107512	Vert., Less Tubes
	Printed Board	107295	Sync, Less Tubes
	Printed Board	106318	Convergence
	Microphone	107630	Remote Transducer Model 210CTR845, 7
	Microphone	107437	Remote Transducer Models 210CKR940, 6, U

PARTS LIST AND DESCRIPTIONS (Continued)

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

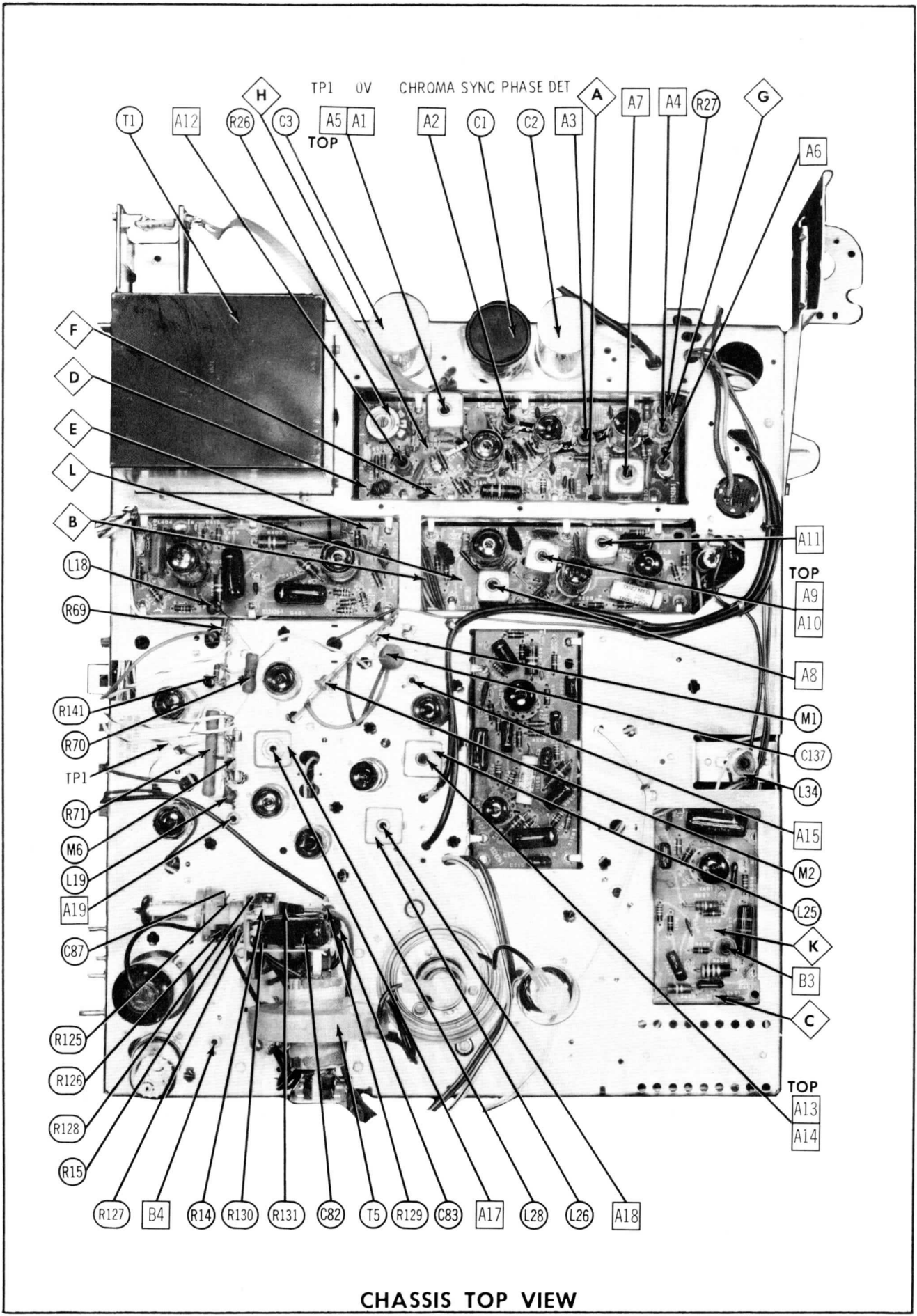
NAME	PART NO.	DESCRIPTION
Safety Glass	106781	All Models except 210CT822, U
Safety Glass	105014	Models 210CT822, U
Mask	106459	All Models except 210CT822, U
Mask	107403	Models 210CT822, U
Knob	107462	VHF Channel Selector, Maroon, Models 210CT822, U
Knob	107303	VHF Channel Selector, Taupe, Models 210CK855, 6, 7, & U
Knob	107302	VHF Channel Selector, Wine, Models 210CK855, U
Knob	107372	VHF Channel Selector, Clear, Models 210CK885, 6, 9, U, 210CK905, 6, 7, & U, 210CK920, 4 & U, 210CK935, 6 & U, 210CKR940, 7, & U, 210CT835, 6, 7 & U, 210CTR845
Knob	102580	UHF Tuning, Brown Maroon, Model 210CT822U
Knob	102578	UHF Tuning, Taupe, Models 210CK856U, 7U
Knob	102653	UHF Tuning, Wine, Model 210CK855U
Knob	102769	UHF Tuning, Clear, Models 210CK885U, 6U, 7U, 210CK905U, 6U, 7U, 210CK920U, 4U, 210CK935U, 6U, 210CKR940U, 6U, 210CT835U, 6U, 7U
Knob	106311	Fine Tuning, Maroon, Models 210CT822, U
Knob	104988	Fine Tuning, Taupe, Models 210CK856, 7, & U
Knob	104987	Fine Tuning, Wine, Models 210CK855, U
Knob	106596	Fine Tuning, Clear, Models 210CK885, 6, 9 & U, 210CK905, 6, 7 & U, 210CK920, 4 & U, 210CK935, 6 & U, 210CKR940, 7 & U, 210CT835, 6, 7, & U, 210CTR845, 7
Knob	106104	UHF Dial, Brown Maroon, Model 210CT822U
Knob	106103	UHF Dial, Gray, Models 210CK856U, 7U
Knob	106102	UHF Dial, Wine, Model 210CK855U
Knob	107266	UHF Dial, Clear, Models 210CK885U, 6U, 9U, 210CK905U, 6U, 7U, 210CK920U, 4U, 210CK935U, 6U, 210CKR940U, 6U, 210CT835U, 6U, 7U
Knob	107398	Off-On-Volume, Brightness, Brown Maroon, Models 210CT822, U
Knob	106615	Off-On-Volume, Brightness, Wine, Models 210CK855, U
Knob	106616	Off-On-Volume, Brightness, Taupe, Models 210CK855, 6, 7 & U
Knob	106278	Off-On-Volume, Brightness, Clear, Models 210CK885, 6, 9, & U, 210CK905, 6, 7 & U, 210CK920, 4 & U, 210CK935, 6 & U, 210CKR940, 6 & U, 210CTR845, 7, 210CT835, 6, 7 & U
Knob	107399	Color or Tint, Brown Maroon, Models 210CT822, U
Knob	106618	Color or Tint, Taupe, Models 210CK856, 7 & U
Knob	106617	Color or Tint, Wine, Models 210CK855, U
Knob	107603	Color or Tint, Clear, Models 210CK885, 6, 9 & U, 210CK905, 6, 7 & U, 210CK920, 4 & U, 210CK935, 6 & U, 210CKR940, 7 & U, 210CT835, 6, 7 & U, 210CTR845, 7
Knob	100407	Focus
Knob	106317	Horizontal, Maroon, Models 210CK855, 6, 7 & U, 210CT822, U
Knob	79533	Horiz. Freq., knurled
Knob	102581	Tone, Contrast, Vert., Maroon, Models 210CK855, 6, 7 & U, 210CT822, U
Knob	107605	Tone, Contrast, Vert., Clear, Models 210CK885, 6, 9 & U, 210CK905, 6, 7, & U, 210CK920, 4 & U, 210CK935, 6 & U, 210CKR940, 6 & U, 210CT835, 6, 7 & U, 210CTR845, 7
Escutcheon	105031	Color & Tint Control Marker, Models 210CK855, 6, 7 & U
Escutcheon	107607	Color-On-Volume Bar, Models 210CK885, 6, 9 & U, 210CK905, 6, 7 & U, 210CK920, 4, & U, 210CK935, 6 & U, 210CKR940, 6 & U, 210CTR845, 7
Escutcheon	106512	Fine Tuning
Escutcheon	107606	Tint-Bright Bar, Models 210CK885, 6, 9 & U, 210CK905, 6, 7 & U, 210CK920, 4, & U, 210CK935, 6 & U, 210CKR940, 6 & U, 210CTR845, 7
Escutcheon	107631	Microphone
Cabinet	Z4571	Models 210CT822, U
Cabinet	M4652	Models 210CK855, U
Cabinet	M4653	Models 210CK856, U
Cabinet	M4654	Models 210CK857, U
Cabinet	X4609	Models 210CK885, U
Cabinet	X4610	Models 210CK886, U
Cabinet	X4611	Models 210CK887, U
Cabinet	X4612	Models 210CK905, U
Cabinet	X4613	Models 210CK906, U
Cabinet	X4614	Models 210CK907, U
Cabinet	Z4576	Models 210CT835, U
Cabinet	Z4577	Models 210CT836, U
Cabinet	Z4578	Models 210CT837, U
Cabinet Leg	X5125	Models 210CT835, 6, 7 & U

RCA VICTOR CHASSIS
CTC9A, B, F, H, N, P

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869
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 Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor

FOLDER 1



TP1 UV CHROMA SYNC PHASE DET

TOP

TOP

A9

A10

TOP

A13

A14

CHASSIS TOP VIEW

**PURITY
MAGNET**

**CONVERGENCE
BOARD**

NOISE

AGC

**RED
BKGD**

**GREEN
SCREEN**

**GREEN
BKGD**

**BLUE
SCREEN**

**BLUE
BKGD**

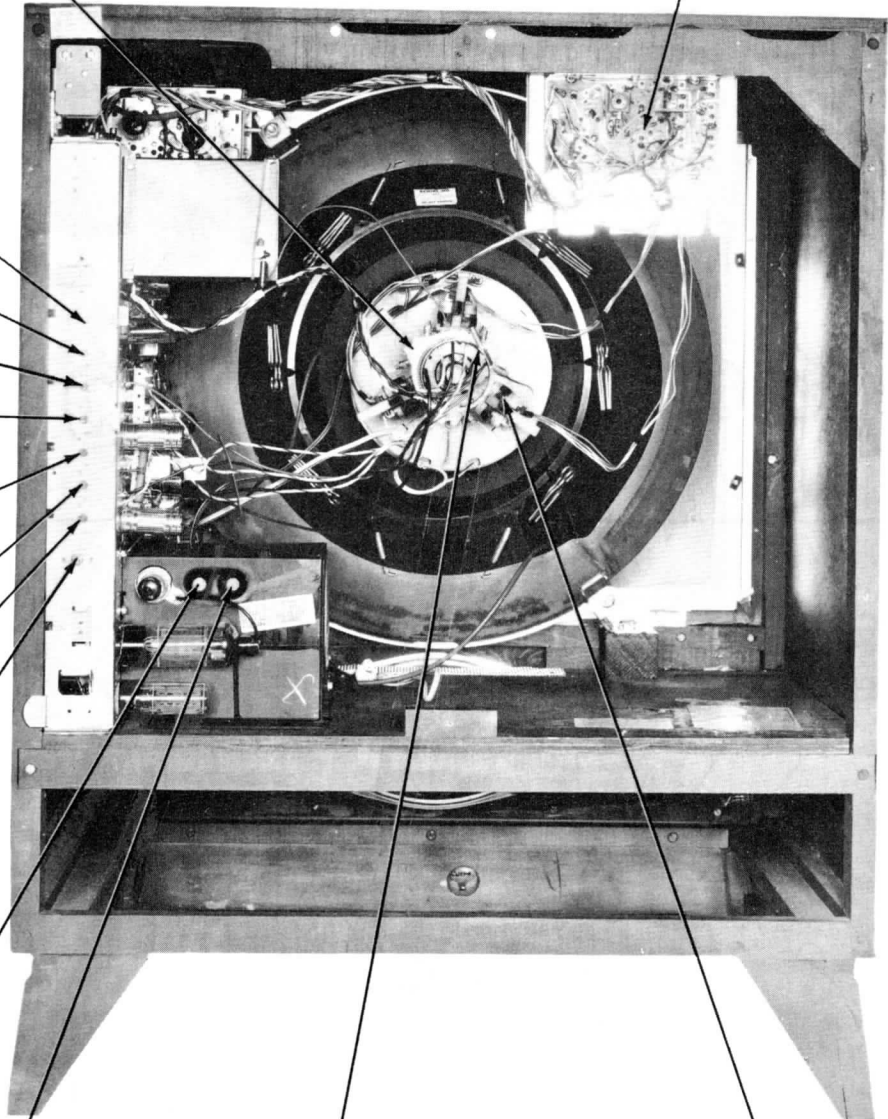
**VERT
CENTERING**

FOCUS

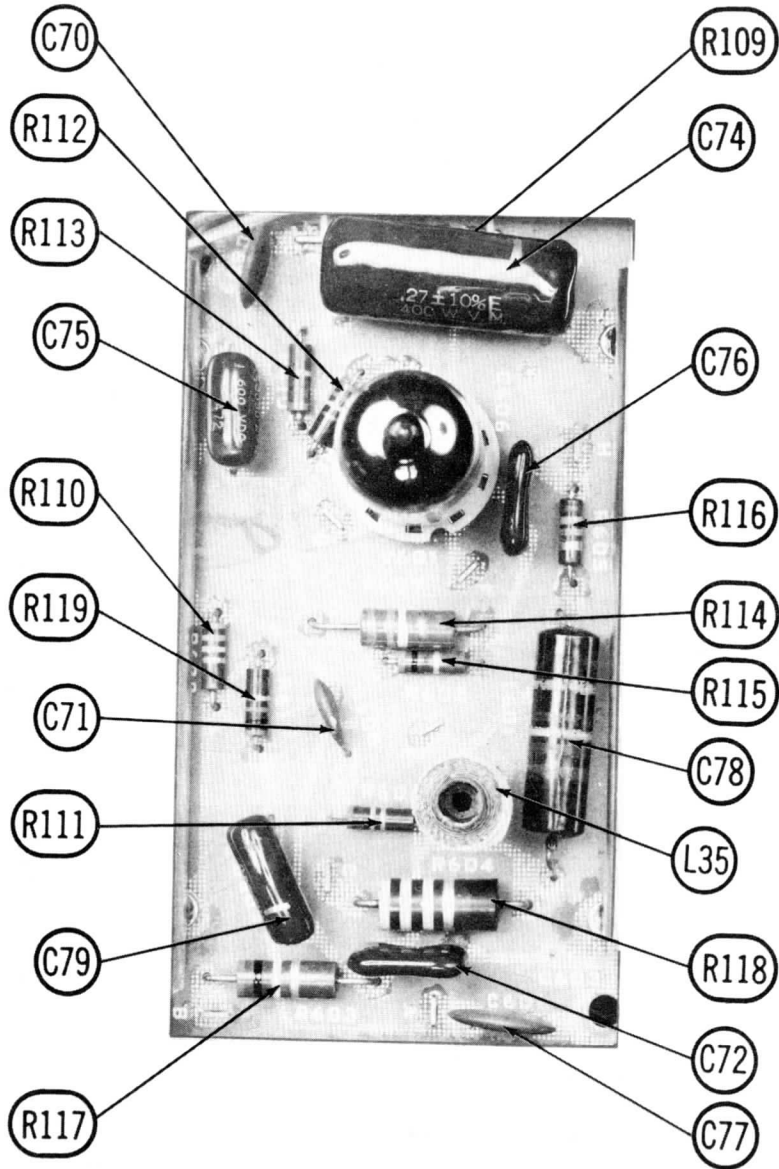
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CENTERING**

**BLUE
LATERAL
MAGNET**

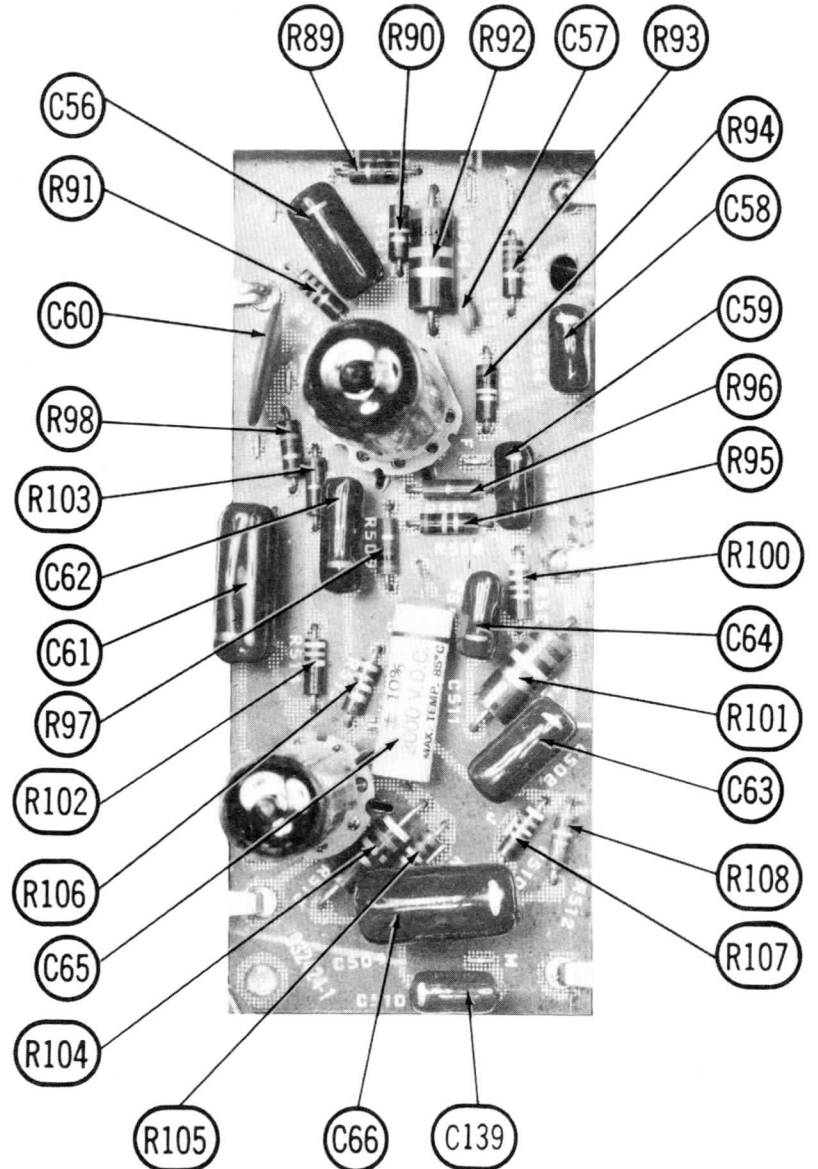
**CONVERGENCE
MAGNETS**



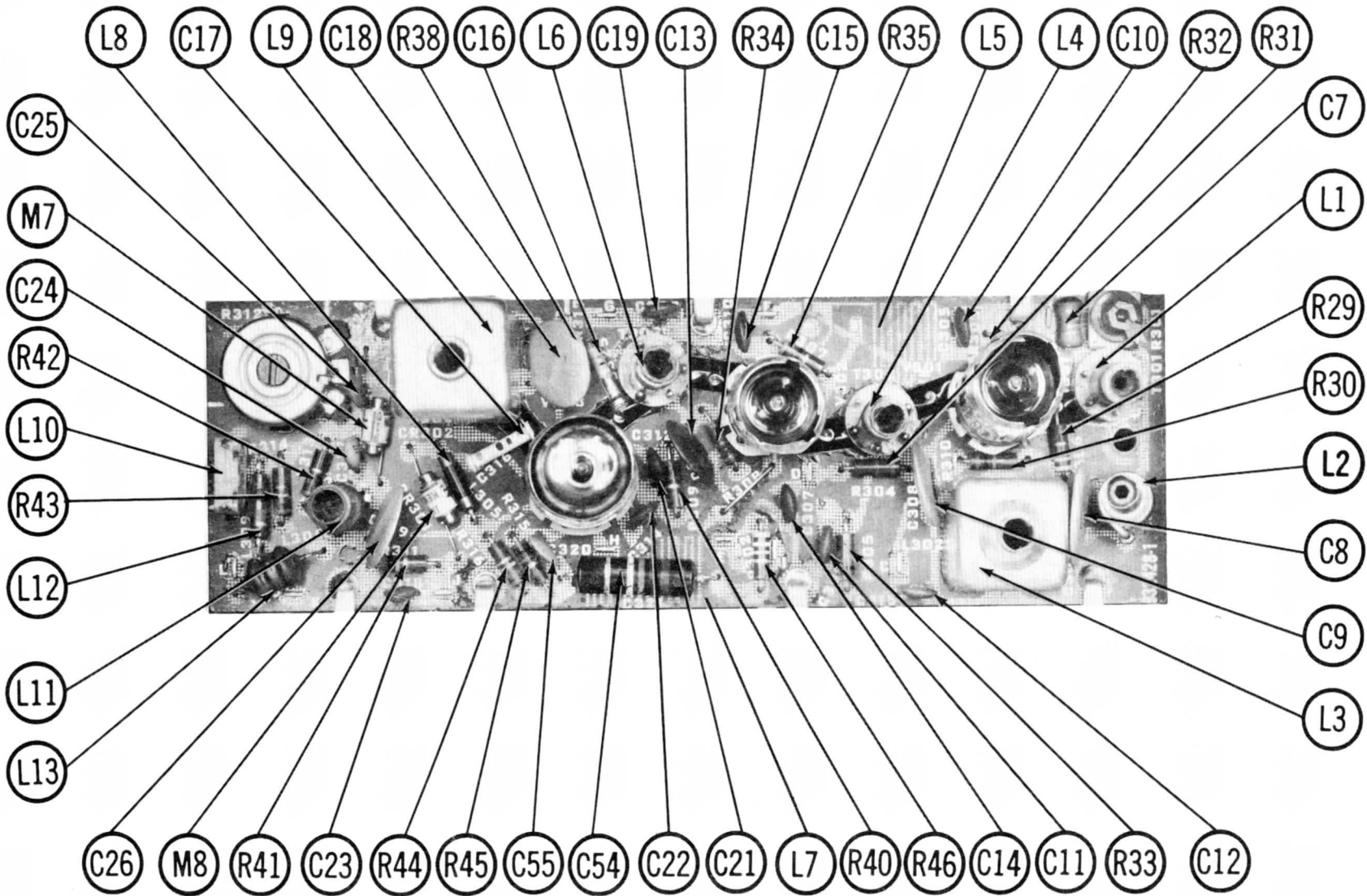
CABINET-REAR VIEW



HORIZ PRINTED BOARD



VERTICAL PRINTED BOARD



VIDEO IF PRINTED BOARD

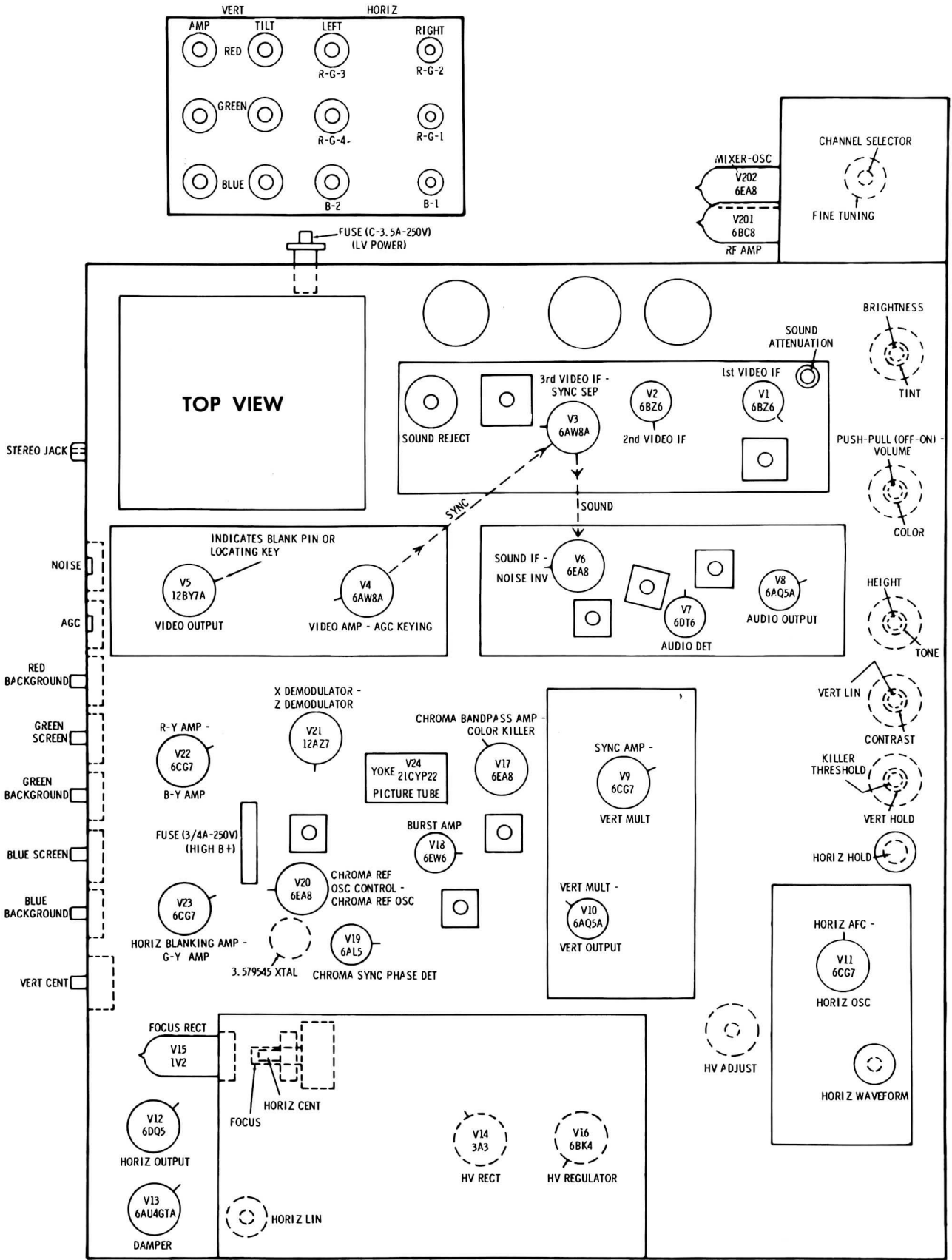
RCA VICTOR CHASSIS
 CT9A, B, F, H, N, P

RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BZ6	100K	47 Ω	0 Ω	.1 Ω	†4000 Ω	†4000 Ω	0 Ω		
V2	6BZ6	100K	82 Ω	.1 Ω	0 Ω	†4000 Ω	†4000 Ω	0 Ω		
V3	6AW8A	0 Ω	10meg	■ 1meg	.1 Ω	0 Ω	150 Ω	.1 Ω	†6500 Ω	†6500 Ω
V4	6AW8A	■ 0 Ω	500K	700K	.1 Ω	0 Ω	1000 Ω	5500 Ω	†25K	†7000 Ω
V5	12BY7A	● 500 Ω	● 500K	0 Ω	.1 Ω	.1 Ω	0 Ω	†4500 Ω	†25K	0 Ω
V6	6EA8	†25K	6.5 Ω	■ 3300 Ω	.1 Ω	0 Ω	■ 3300 Ω	82 Ω	1000 Ω	1.1meg
V7	6DT6	4.6 Ω	470 Ω	.1 Ω	0 Ω	†700K	■ 3300 Ω	470K		
V8	6AQ5A	1.2meg	¶60K	.1 Ω	0 Ω	†350 Ω	†800 Ω	1.2meg		
V9	6CG7	■ 10K	33K	0 Ω	.1 Ω	0 Ω	● †5meg	● 2.5meg	0 Ω	0 Ω
V10	6AQ5A	2.5meg	25 Ω	0 Ω	.1 Ω	†3200 Ω	†2700 Ω	2.5meg		
V11	6CG7	†0 Ω	330K	500K	.1 Ω	0 Ω	†33K	600K	0 Ω	0 Ω
V12	6DQ5	10meg	0 Ω	0 Ω	†15K	10meg	0 Ω	.1 Ω	†15K	TOP CAP †15 Ω
V13	6AU4GTA	NC	NC	¶400K	NC	†9.5 Ω	NC	0 Ω	.1 Ω	
V14	3A3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †610 Ω
V15	1V2	TP	NC	NC	66meg	66meg	66meg	NC	NC	● †90K
V16	6BK4	†9 Ω	¶25K	NC	NC	1meg	NC	¶25K	NC	TOP CAP INF
V17	6EA8	630K	420K	†1300 Ω	.1 Ω	0 Ω	†1300 Ω	820 Ω	0 Ω	5meg
V18	6EW6	33K	27K	0 Ω	.1 Ω	†1000 Ω	†800 Ω	0 Ω		
V19	6AL5	4.5meg	5meg	0 Ω	.1 Ω	270 Ω	0 Ω	270 Ω		
V20	6EA8	†13K	47K	†47K	0 Ω	.1 Ω	†1800 Ω	0 Ω	680 Ω	5meg
V21	12AZ7	†4700 Ω	●130 Ω	860 Ω	.1 Ω	.1 Ω	†4700 Ω	● 130 Ω	860 Ω	0 Ω
V22	6CG7	†15K	1meg	560 Ω	.1 Ω	0 Ω	†13K	1meg	560 Ω	0 Ω
V23	6CG7	†39K	120K	820 Ω	.1 Ω	0 Ω	†13K	1meg	560 Ω	0 Ω
V24	21CYP22	¶25K	†120K	¶110K	†7200 Ω	†2700 Ω	†120K	● †550K	NC	66meg
		Pin 10 NC	Pin 11 ● †550K	Pin 12 †110K	Pin 13 †2700 Ω	Pin 14 ¶25K				
V201	6BC8	†5500 Ω	550K	560K	0 Ω	.1 Ω	560K	800K	0 Ω	0 Ω
V202	6EA8	†7600 Ω	100K	INF	0 Ω	.1 Ω	INF	0 Ω	INF	INF
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9

- ¶ THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
 - THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.
 - † MEASURED FROM 385V SOURCE.
 - MEASURED FROM 140V SOURCE.
 - ‡ MEASURED FROM PIN 3 OF V13.
- NC NO CONNECTION
TP TIE POINT

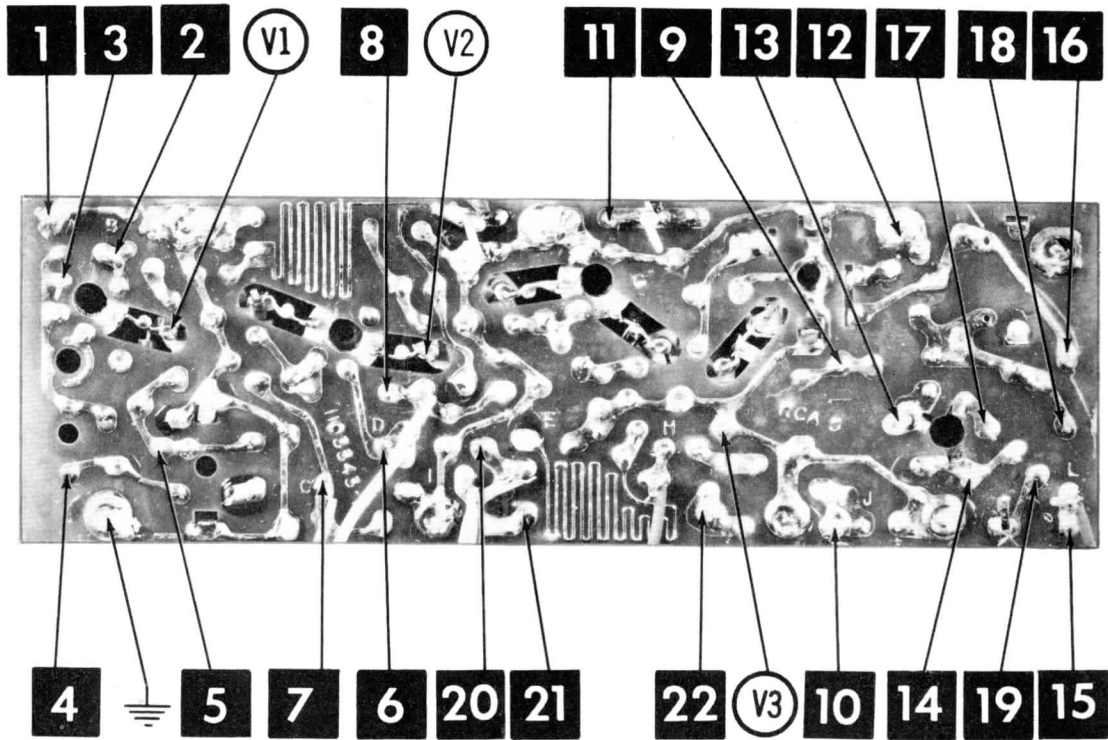
TUBE PLACEMENT CHART



RCA VICTOR CHASSIS
CTC9A, B, F, H, N, P

FOLDER 1

CircuiTrace numbers 1 thru 22

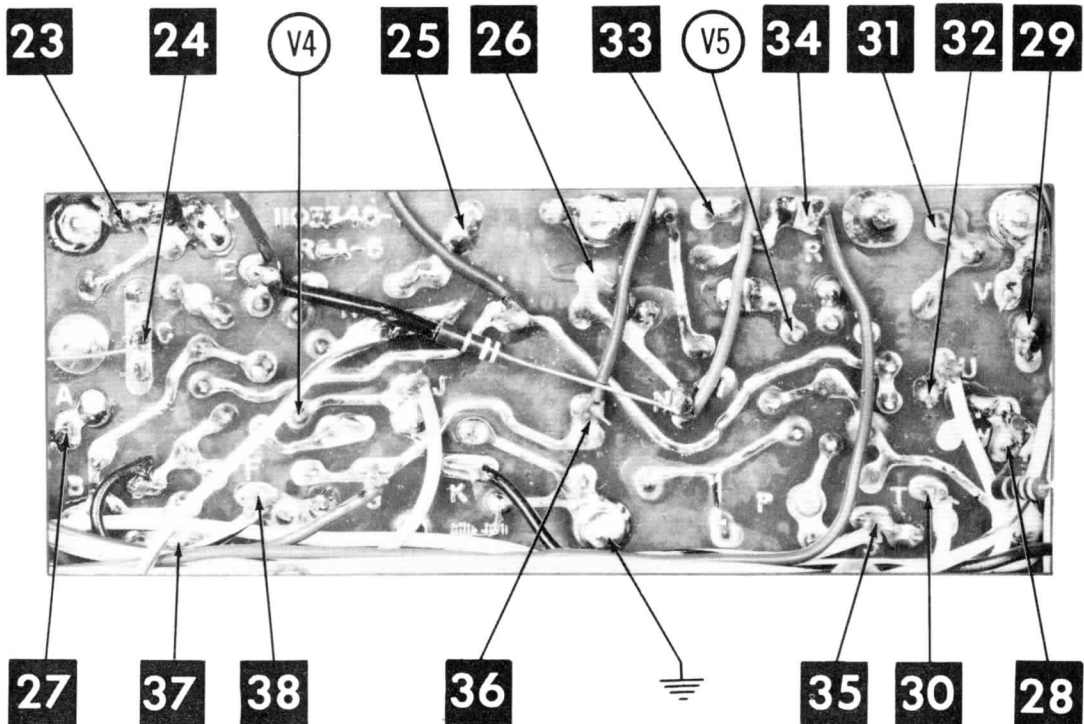


A Howard W. Sams **CIRCUITRACE** Photo

VIDEO IF
PRINTED BOARD

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

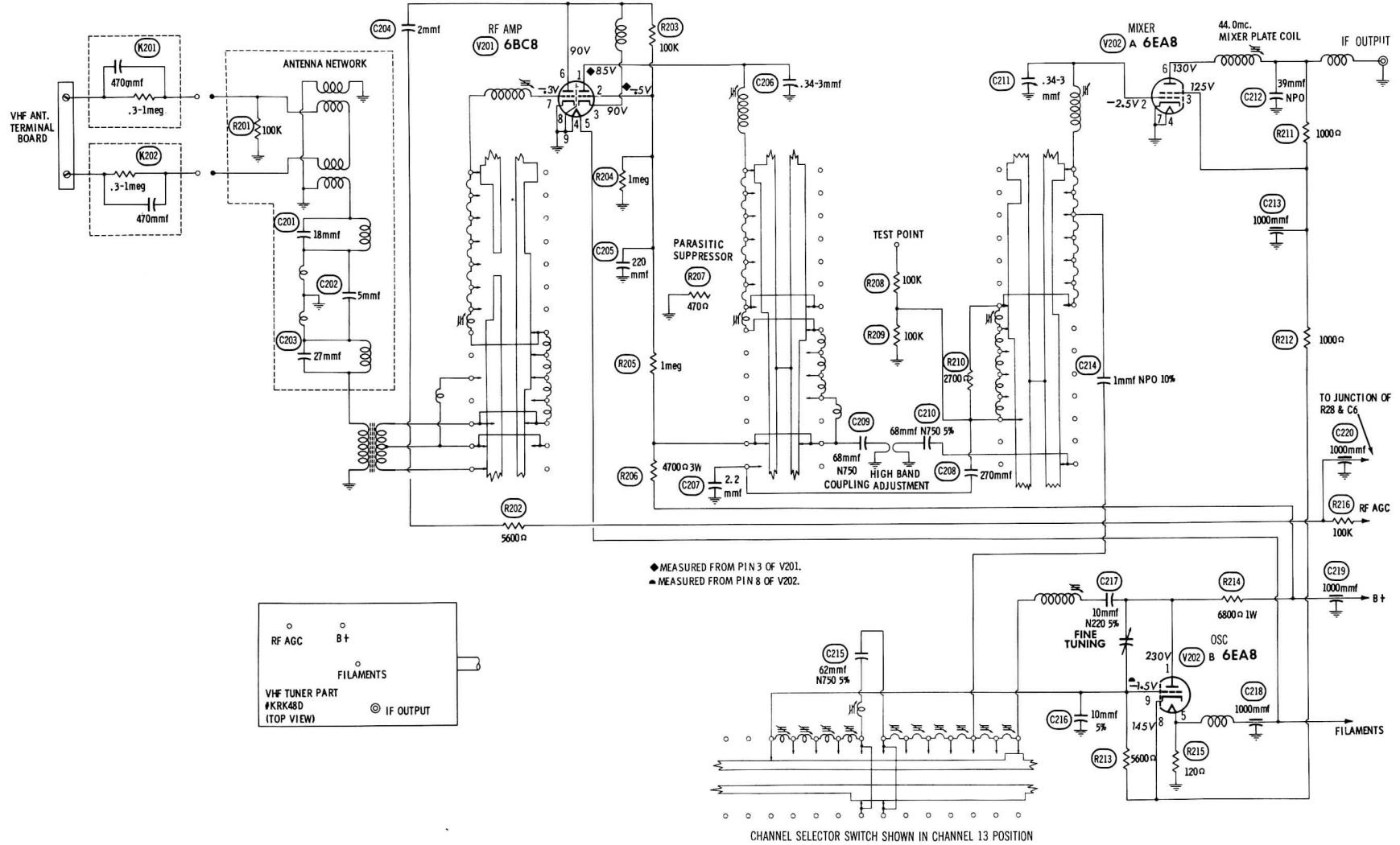
CircuiTrace Numbers 23 thru 38



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VIDEO
PRINTED BOARD

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



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VHF TUNER KRK48D, 75C, 75D

RCA VICTOR CHASSIS
 CT9A, B, F, H, N, P

TUNER KRK48D

PARTS LIST AND DESCRIPTIONS

TUBES

CBS		GENERAL ELECTRIC		RAYTHEON		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE
V201	RF Amplifier	6BC8	V202	Mixer-Osc.	6EA8		

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING			REPLACEMENT DATA						NOTES
	CAP.	VOLT	TOL.	RCA Victor PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C201	18				DI-18	DD-180	LI0Q18	CNO-418	10TS-Q18	
C202	5				DI-5	DD-050	LI0V5	ZT-555	10TS-V50	
C203	27				DI-27	DD-270	LI0Q27	CNO-427	10TS-Q27	
C204	2					TCZ-2R2	C10V2C	CNO-522	10TCC-V22	
C205	220				DI-220	DD-221	LI0T22	B-322	10TS-T22	
C206	.34-3									
C207	2.2					TCZ-2R2	C10V22C	CNO-522	10TCC-V22	
C208	270				DI-270	DD-271	LI0T27	B-327	10TS-T27	
C209	68		N750		N750-DI 68	DTN-68	C10Q68U	CN7-468	10TCU-Q68	
C210	68		N750 5%			DTN-68	C10Q68U	CN7-468	10TCU-Q68	
C211	.34-3									
C212	39		NPO		NPO-DI 39	TCZ-39	C10Q39C	CNO-439	10TCC-Q39	
C213	1000				EF-001	MFT-1000				
C214	1		NPO 1%			TCZ-1		CNO-510	10TCC-V10	
C215	62		N750 5%			TCN-62	C10Q62U		10TCU-Q62S 5% *	
C216	10		5%			TCZ-10	C10Q1C	CNO-410	10TCC-Q10	
C217	10		N220 5%						10TCR-Q10	
C218	1000				EF-001	MFT-1000				
C219	1000				EF-001	MFT-1000				
C220	1000				EF-001	MFT-1000				

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

RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R201	100K		R207	470Ω		R213	5600Ω	
R202	5600Ω		R208	100K		R214	6800Ω 1W	
R203	100K		R209	100K		R215	120Ω	
R204	1meg		R210	2700Ω		R216	100K	
R205	1meg		R211	1000Ω				
R206	4700Ω 3W		R212	1000Ω				

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	RCA Victor PART No.	REPLACEMENT DATA
K201	Antenna Isolation	470mmf, .3-1meg	104328	Centralab Sprague RC-471 ACL-1
K202	Antenna Isolation	470mmf, .3-1meg	104328	Centralab Sprague RC-471 ACL-1

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

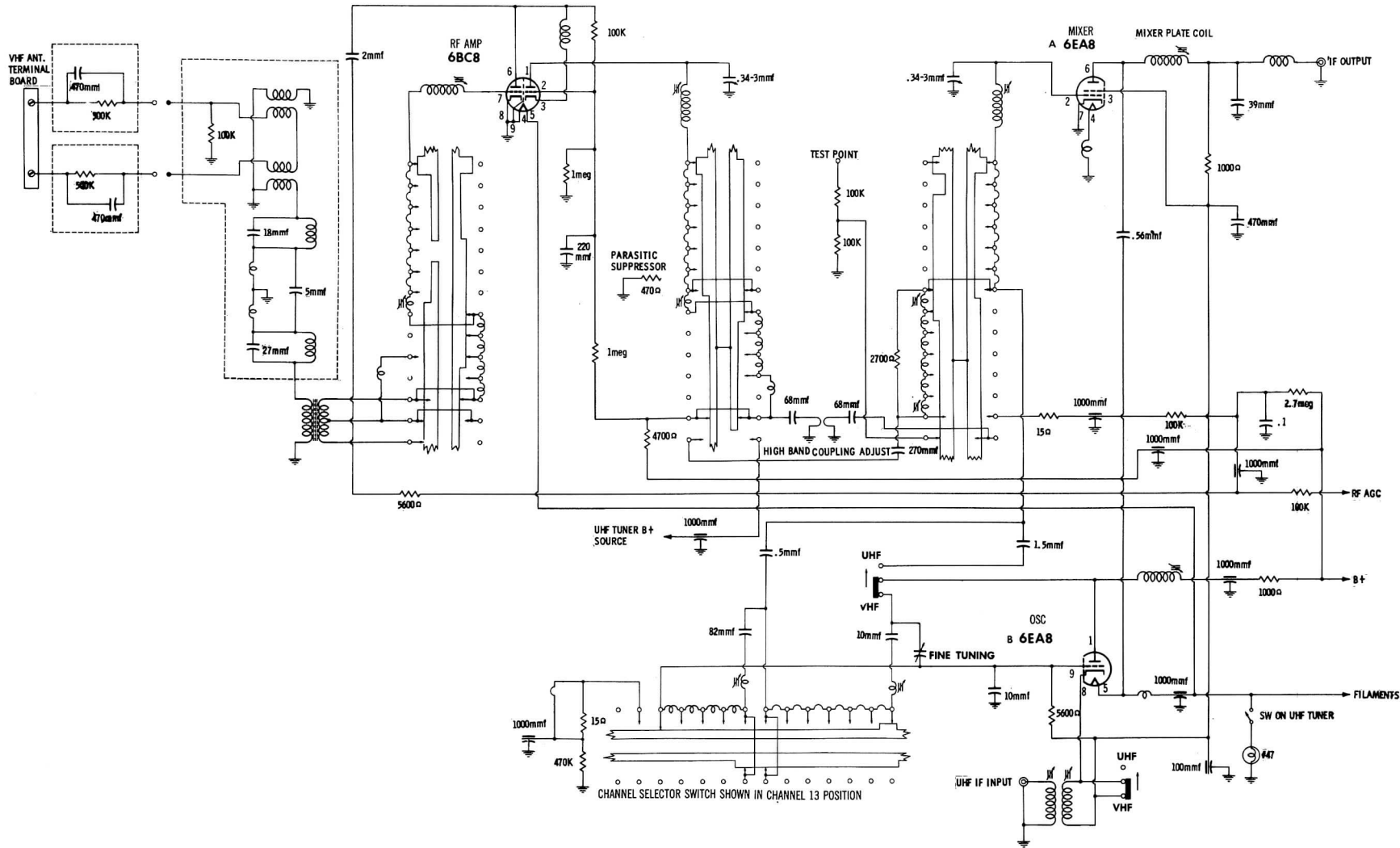
Suggested Alignment Tools: GENERAL CEMENT #5000, 5003, 5014, 5015, 5016, 8276, 8290
WALSCO #2512, 2515, 2522, 2523, 2525, 2537

VHF OSCILLATOR ALIGNMENT

Set the Fine Tuning to the center of its range. The adjustments should be made in sequence from the highest to the lowest channel in the area. Channel 13 adjustment is located at 2 o'clock. Proceed in a counterclockwise direction. Adjust for best picture and sound.

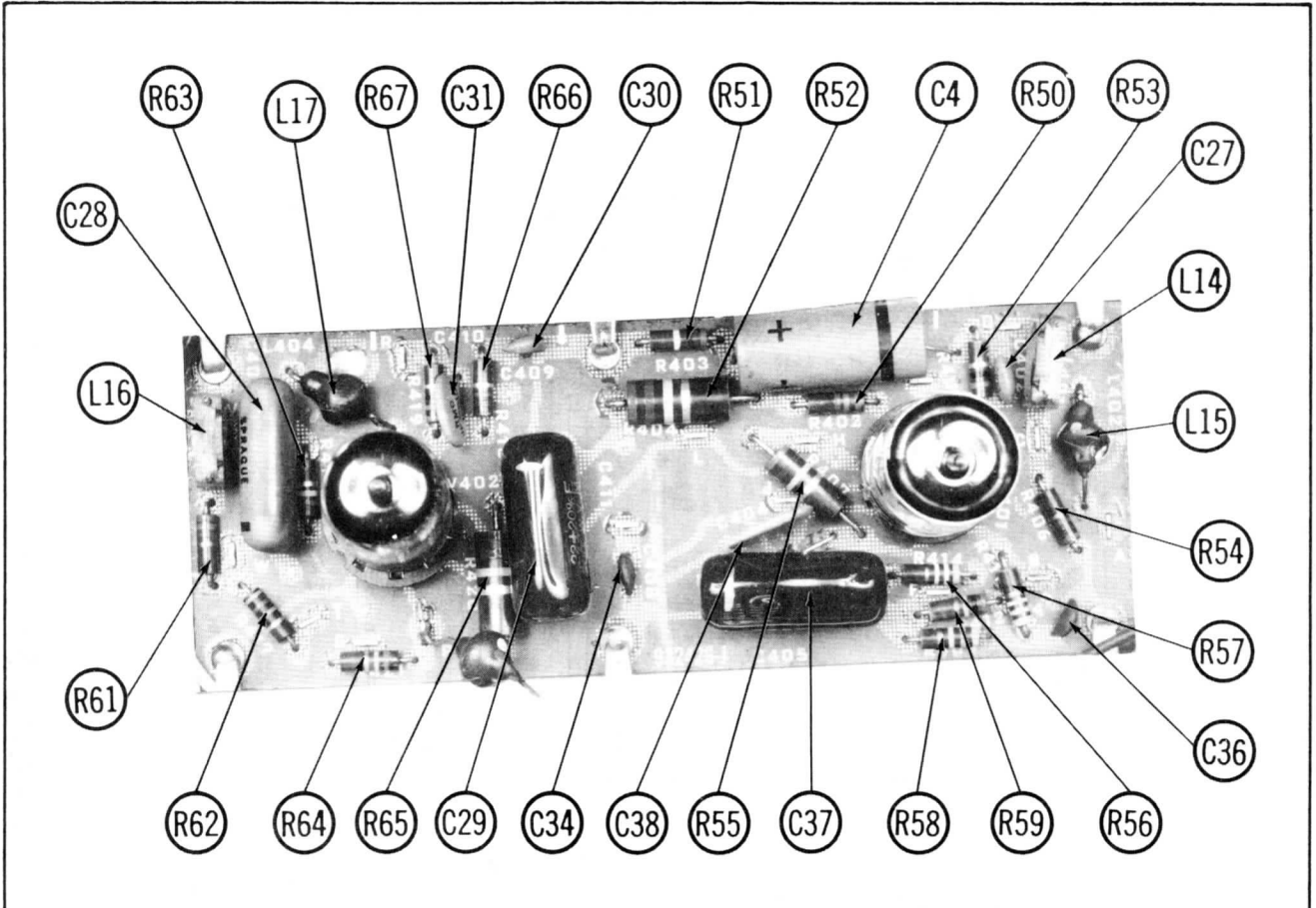
VHF RF AND MIXER ALIGNMENT

This portion of the tuner has been properly aligned at the factory and is very stable. Alignment of this portion should not be attempted in the field.

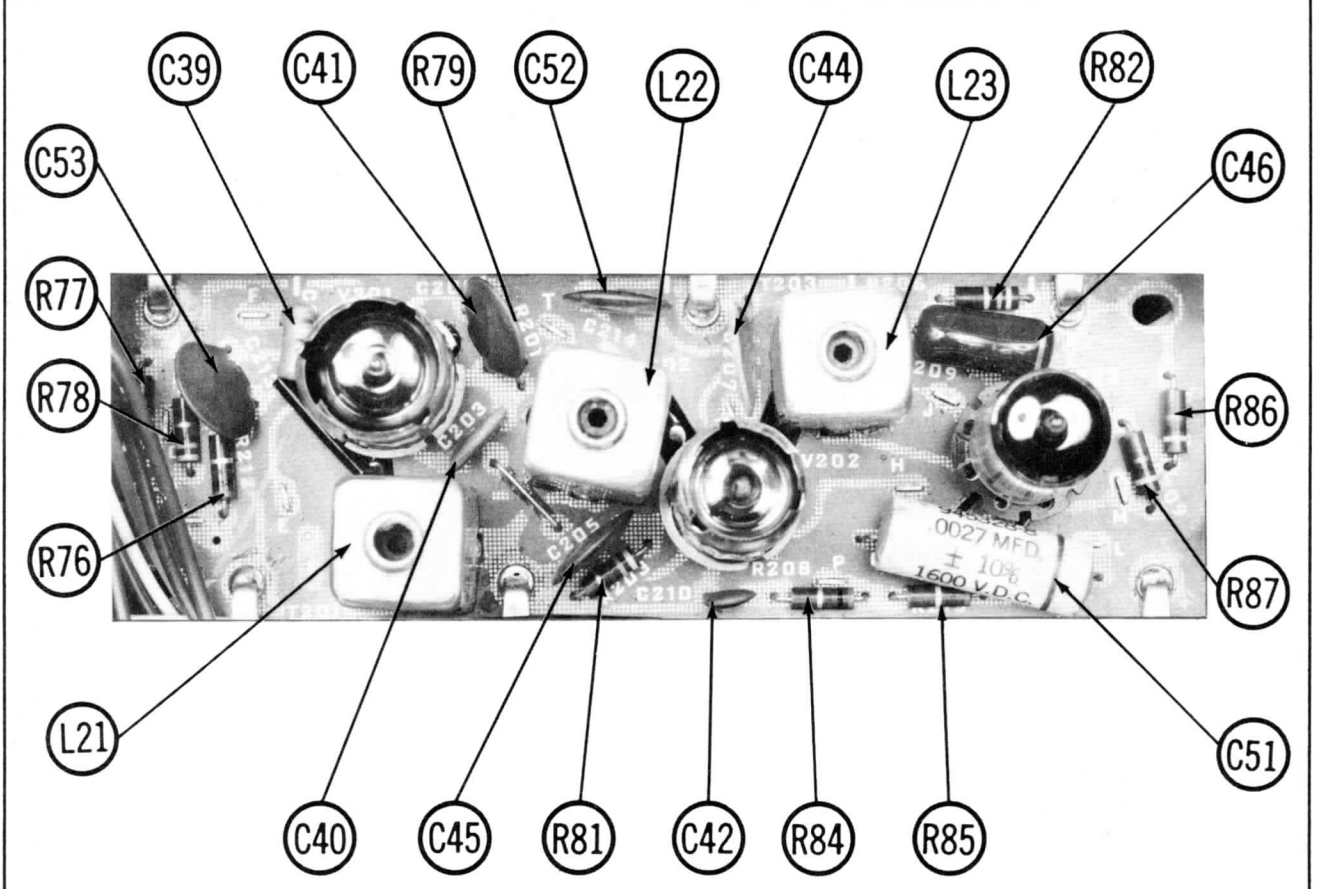


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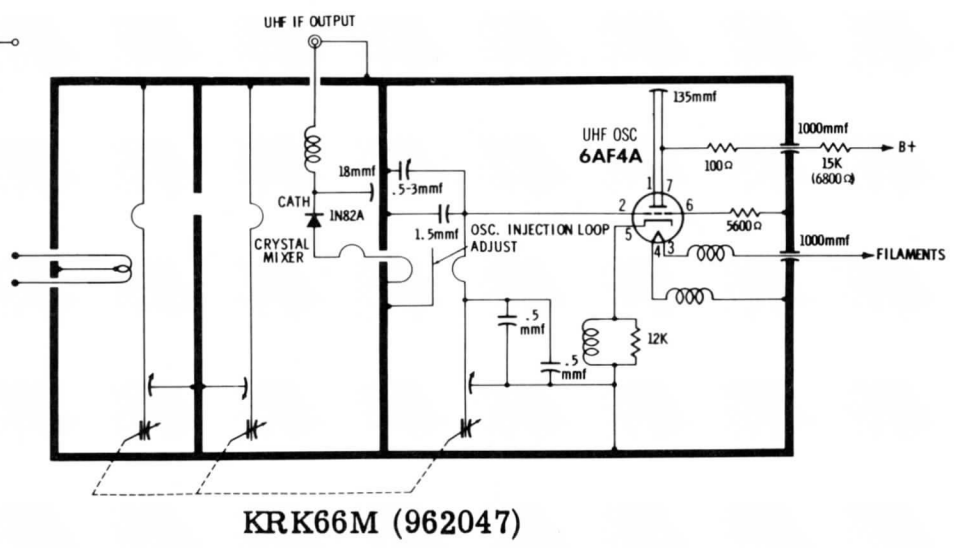
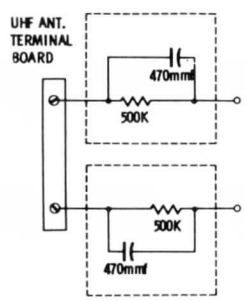
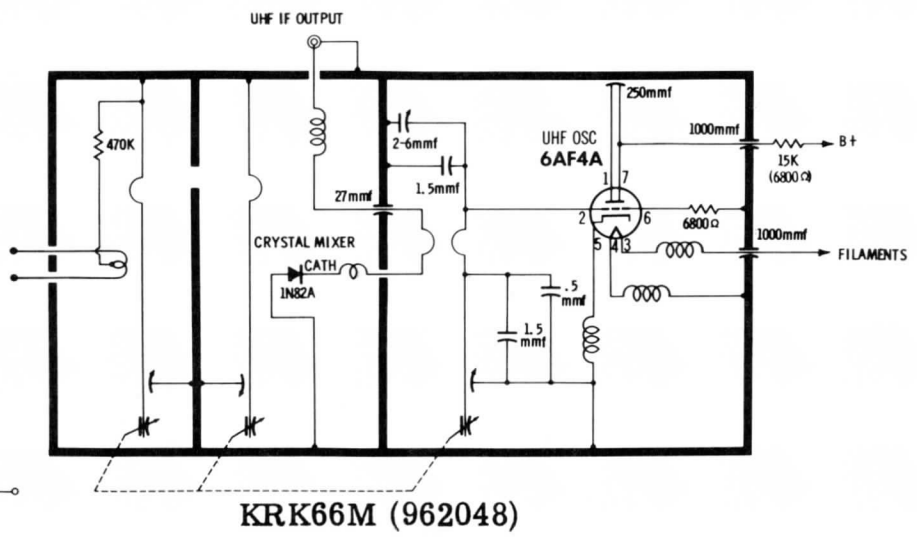
VHF TUNER with UHF provisions KRK49D, 76C, 76D
 CT9A, B, F, H, N, P
 RCA VICTOR CHASSIS



VIDEO PRINTED BOARD

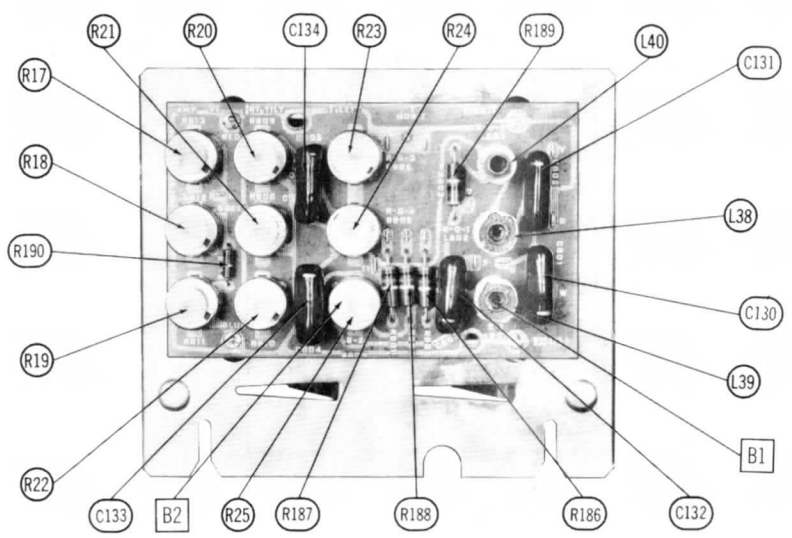


SOUND PRINTED BOARD

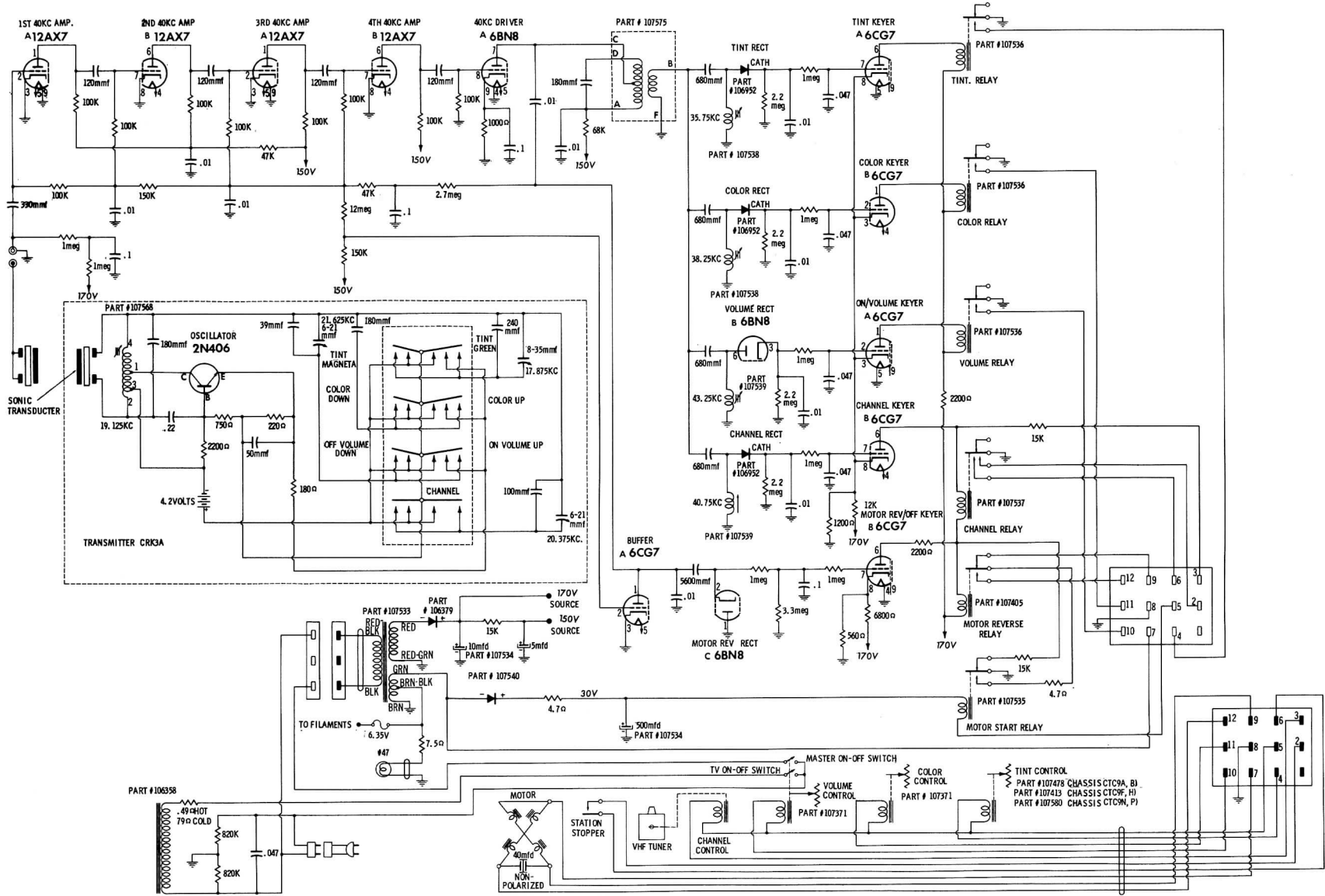


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UHF TUNER

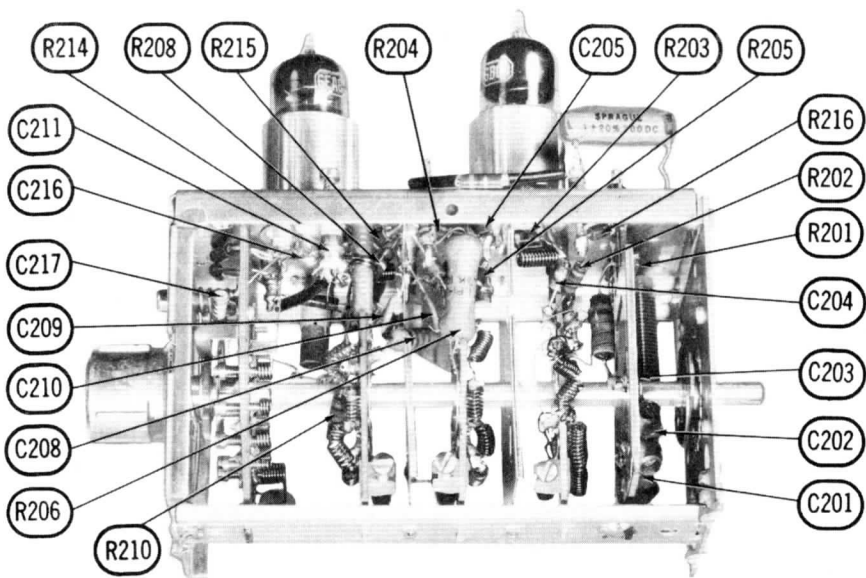
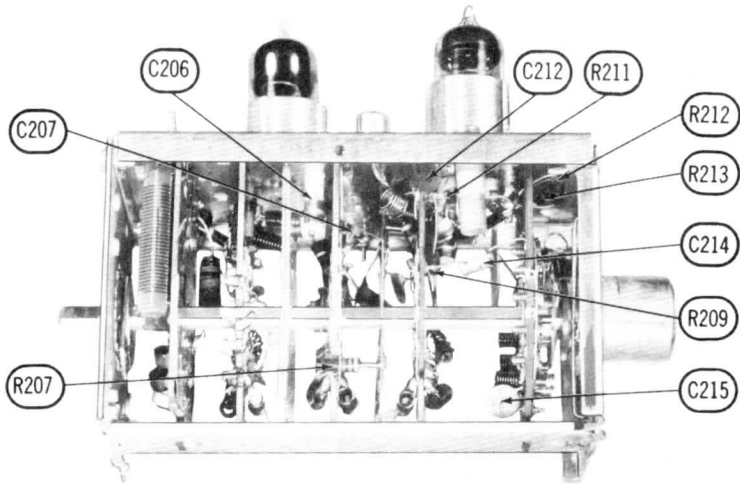
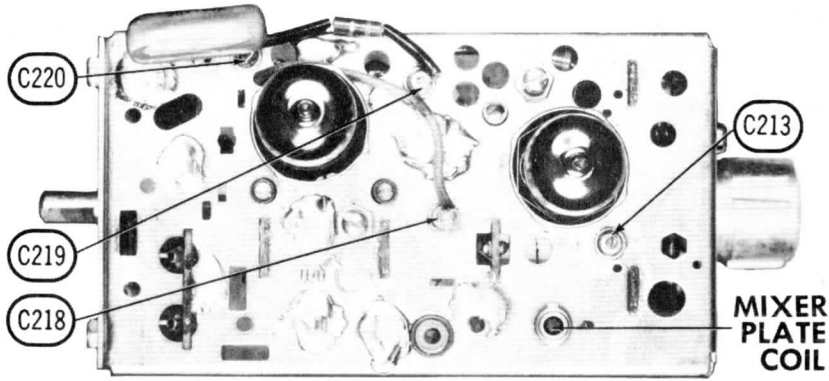


CONVERGENCE PRINTED BOARD



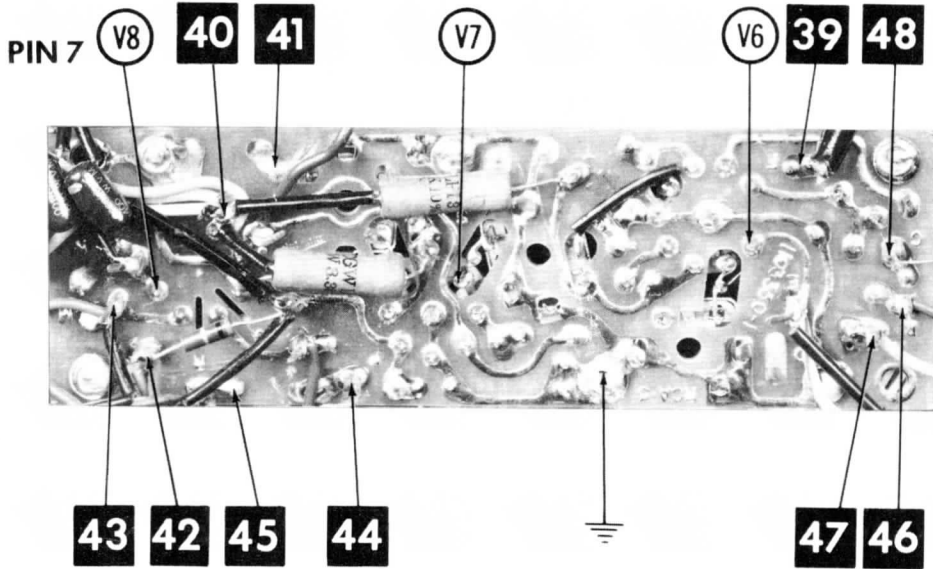
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REMOTE CONTROL TRANSMITTER CRK3A & REMOTE CONTROL RECEIVER CTP7A



TUNER KRK48D

CircuiTrace numbers 39 thru 48

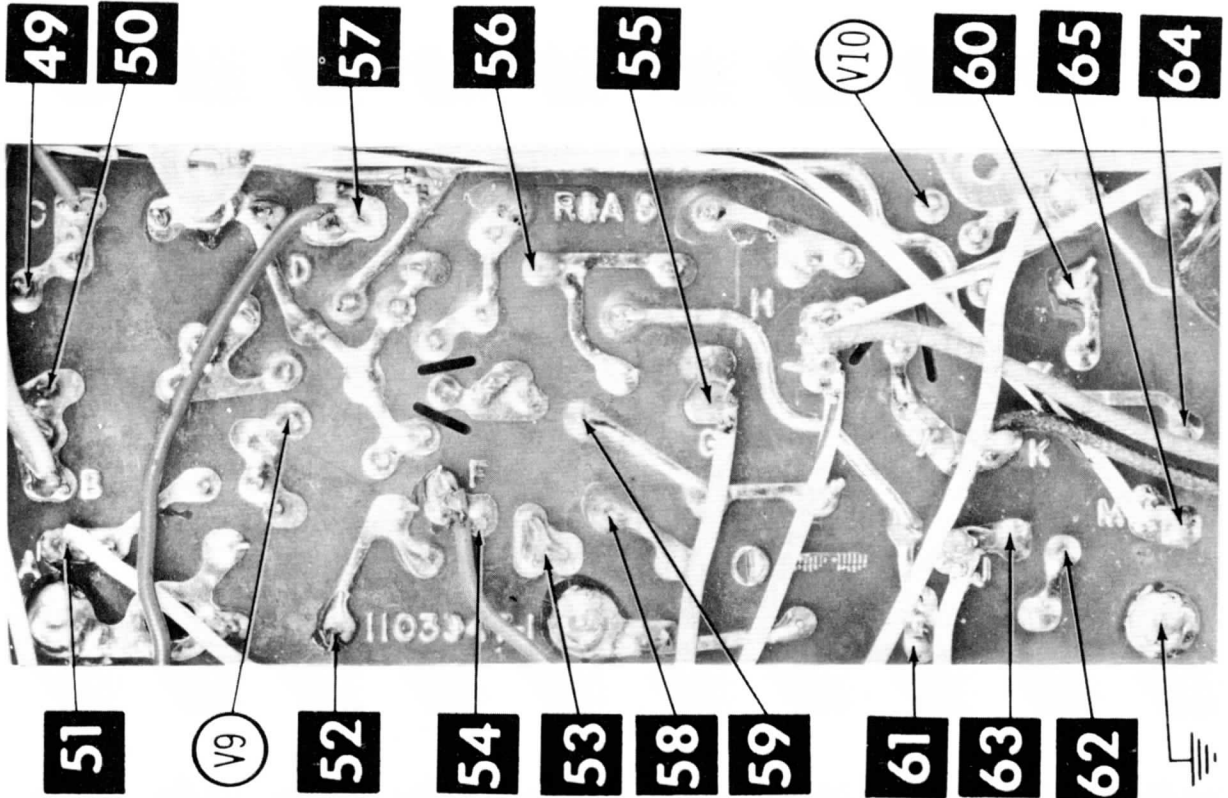


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**SOUND
PRINTED BOARD**

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

CircuiTrace Numbers 49 thru 65

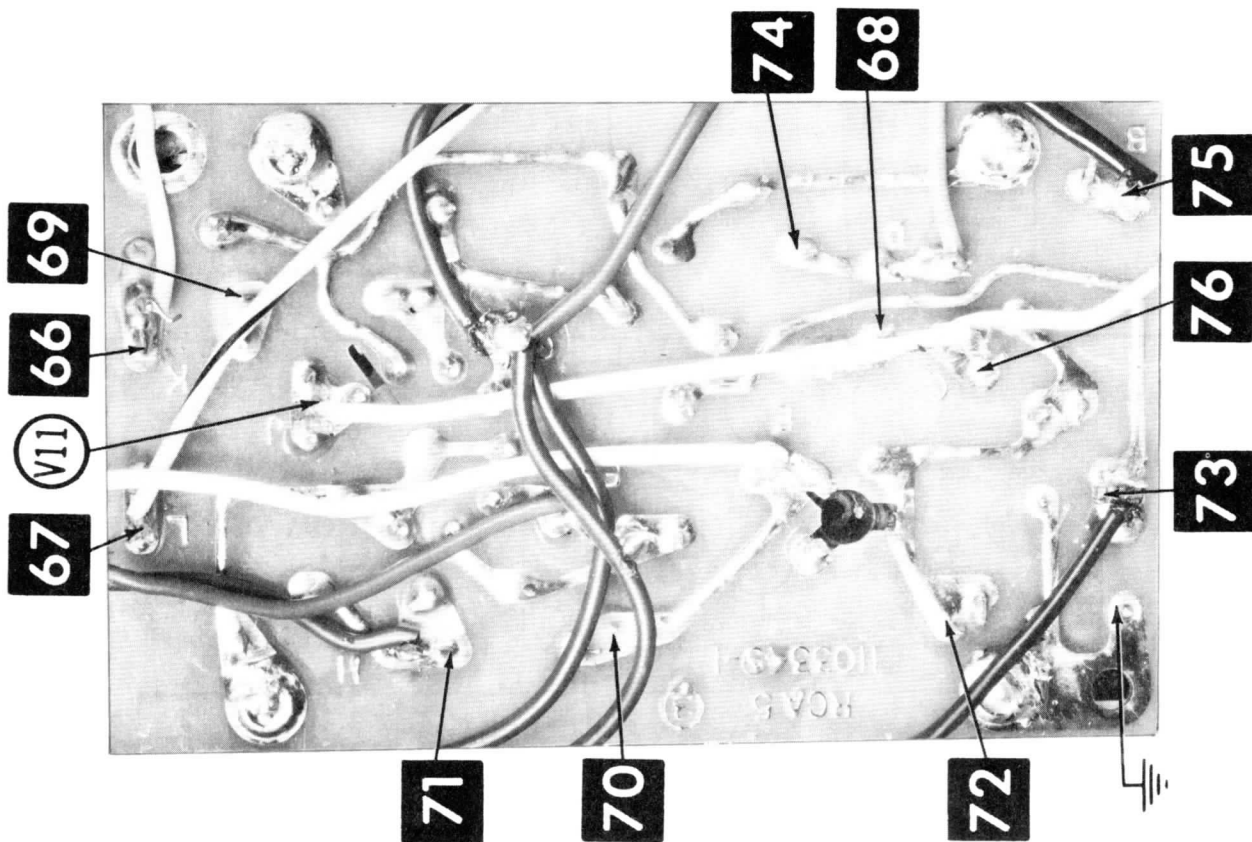


A Howard W. Sams **CIRCUITRACE** Photo

**VERTICAL
PRINTED BOARD**

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

CircuiTrace Numbers 66 thru 76

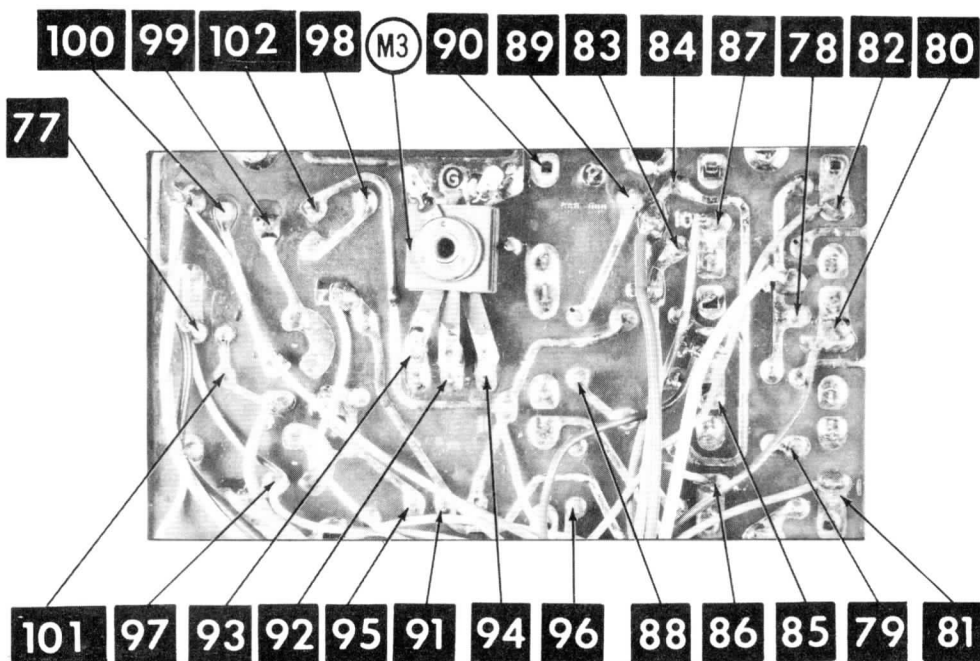


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HORIZONTAL
PRINTED BOARD

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

CircuiTrace Numbers 77 thru 102

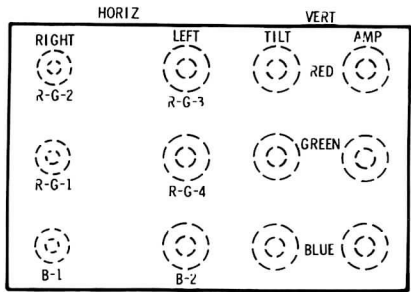


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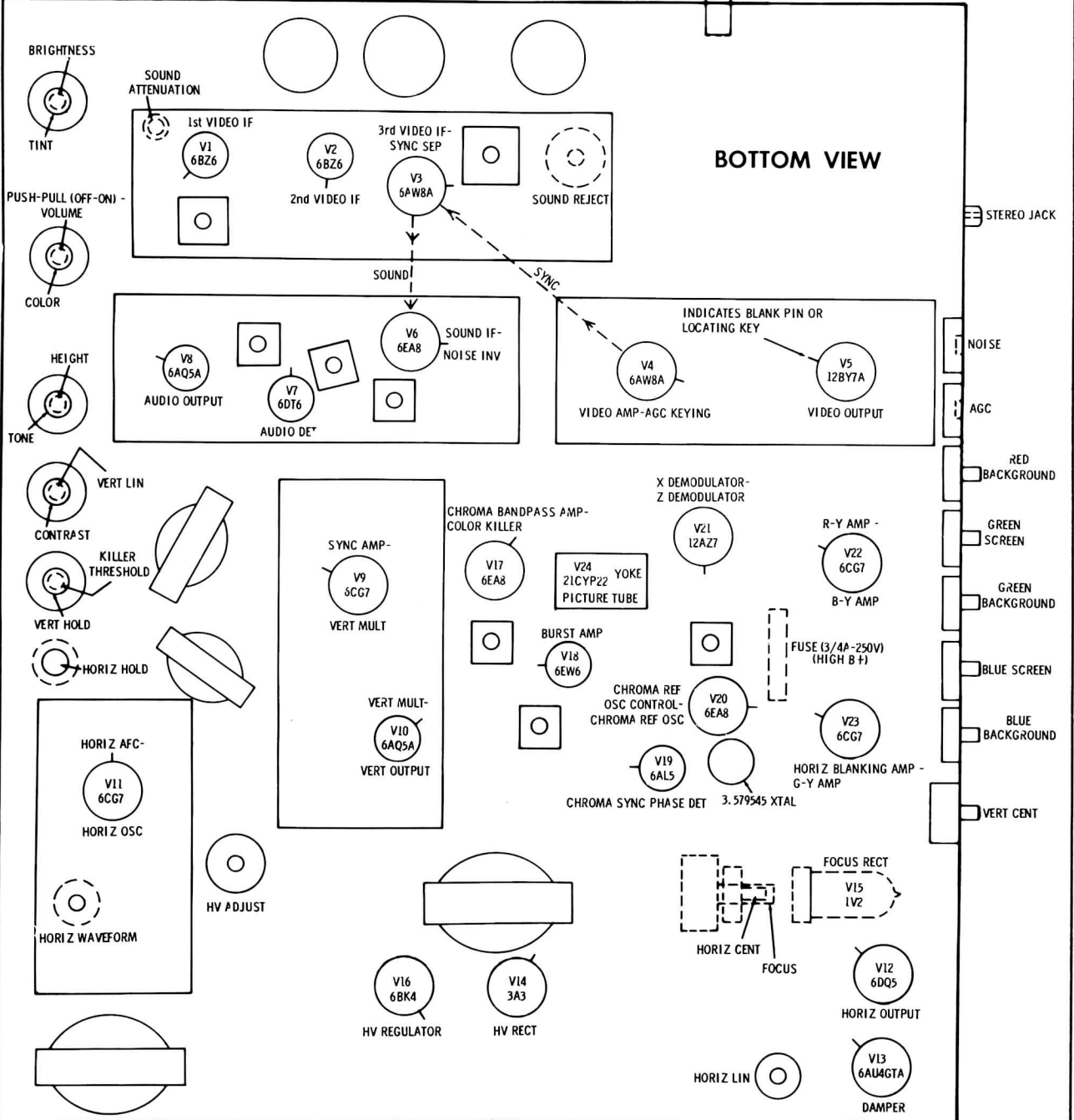
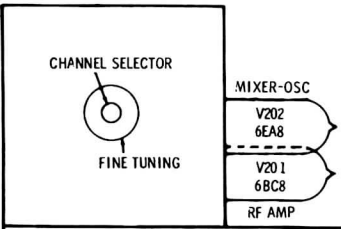
CONVERGENCE PRINTED BOARD

RCA VICTOR CHASSIS
CTC9A, B, F, H, N, P

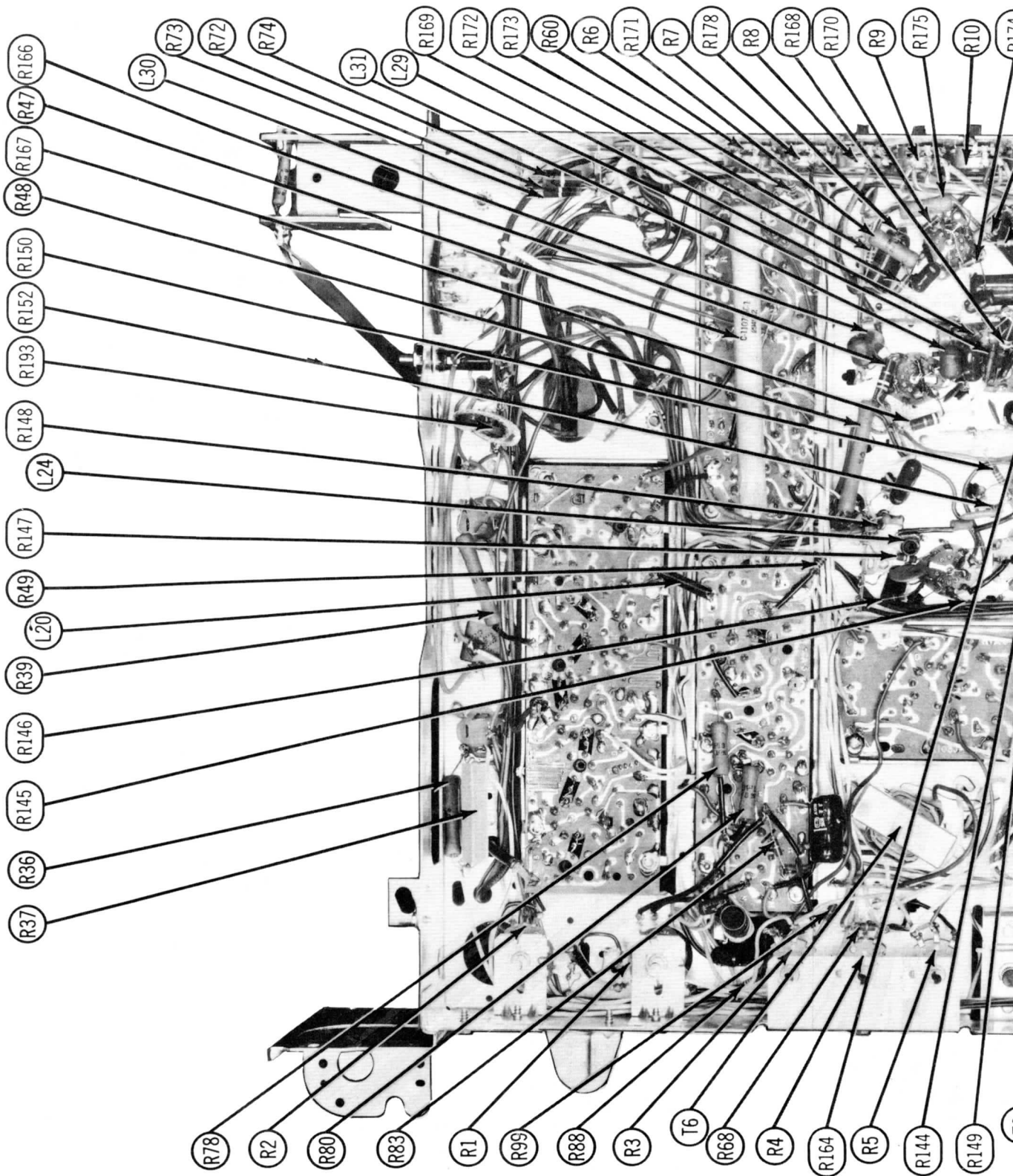
FOLDER 1

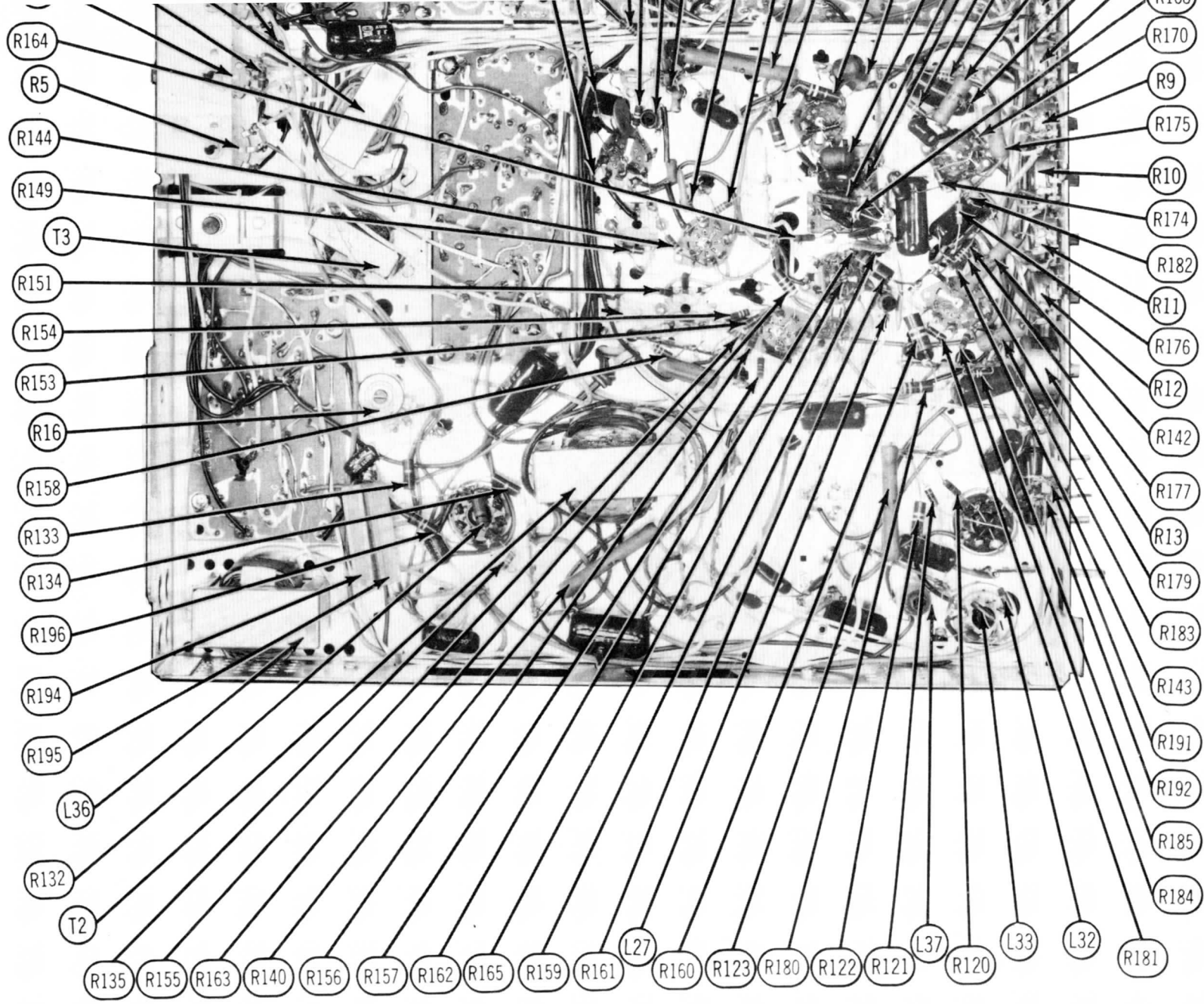


FUSE (C-3, 5A-250V)
(LV POWER)



TUBE PLACEMENT CHART





CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION

RCA VICTOR CHASSIS
CTG9A, B, F, H, N, P