

VHF TUNER (KXK8A-B) SCHEMATIC LOCATED ON PAGE 19.
 UHF-VHF TUNER (KXK9A-B) SCHEMATIC LOCATED ON PAGE 21.

- MEASURED FROM 145V SOURCE.
- 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).
- ALL WAVEFORMS TAKEN WITH A WIDE BAND OSCILLOSCOPE.
- WAVEFORMS TAKEN 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.
- DC voltage measurements taken with vacuum tube voltmeter; AC voltage measured at 1000 ohms per volt.
- Measured values are from socket pin to common negative unless otherwise noted.
- Line Voltage maintained at 117 volts for voltage readings.
- Pin numbers are counted in clockwise direction on bottom of socket.
- All controls set for normal operation, no signal applied.

A PHOTODUPLICATION STANDARD NOTATION SCHEMATIC
 Howard W. Sams & Co., Inc. 1958

RCA VICTOR CHASSIS
 CT7A, B, C, D, E, F

MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect a 0-500ma meter in series with the cathode circuit of the horizontal output tube (V12). Connect .47mf capacitor across the ma meter terminals. Connect an 0-1ma meter in series with the cathode circuit of the HV Regulator (V16) 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 (R14) fully counter clockwise. Set the Horizontal Drive (R17) at the center of its range. Set the high voltage adjustment (R18) 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. 10 with the round and sharp peaks at equal amplitudes. Keep the picture in sync with the Horizontal Hold during this adjustment. Adjust Horizontal Linearity slug (B4) for MINIMUM current indication on the 500ma meter. Adjust the Horizontal Drive (R17) for maximum current without drive lines, but not to exceed 210ma. Adjust the High Voltage adjustment (R18) for 22.5KV on the VTVM. Check the current reading on the meter. It must not exceed .8ma (18 watts).

AGC ADJUSTMENT

Connect a scope to point \diamond thru a 10K resistor. Adjust the AGC control (R16) 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 Inverter Control (R6) fully counter clockwise. Turn R6 clockwise and observe scope, when the sync appears to be clipped turn counter clockwise until clipping just disappears.

COLOR AFC ALIGNMENT

Connect a Color Bar generator across the antenna terminals and adjust the receiver for color reception. 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 7 (plate) of the 6U8A (V17). Common to chassis. Set the Tint control (R2) to the center of its range. Preset A20 one-half turn from tight. Turn the Killer control (R4B) fully counter clockwise. Connect a short clip lead from point \diamond to chassis. Adjust A16 and A17 for maximum deflection on the VTVM. If the Chroma Reference Oscillator is not running, no reading will be obtained. In which case, adjust A19 to start the oscillator and then adjust A16 and A17. Move the VTVM connection to point \diamond . Adjust A18 for maximum deflection on the VTVM. Make sure the oscillator is running and locked in. Connect a clip lead from point \diamond to chassis. Adjust A19 until the color bars stand still or drift slowly. Move scope connection to point \diamond . Remove the jumper from point \diamond . Observe the bar pattern on the scope and retouch A18, if necessary obtain proper response curve similar to the R-Y signal in Fig. 11 with equal change when rotating the Tint control from one end to the other. After the above adjustment, return the Tint control to the nominal setting. Move the connection of the Vertical amplifier of the scope to point \diamond . If necessary, retouch A16 for correct B-Y signal as shown in Fig. 11. Connect a clip lead from pin 7 (grid) of the Burst amplifier (V18) to chassis. Connect a short clip lead from pin 9 (grid) of the Color Killer (V17) to chassis. Adjust A20 for zero volts on the VTVM. A positive and negative reading will be obtained on either side of the correct setting. Recheck the setting of A16 by observing B-Y waveform. Recheck setting of A20. Check the G-Y waveform by connecting the scope to point \diamond and compare to the G-Y waveform in Fig. 11. Remove all clip leads and test equipment. Switch to an unused channel and adjust the Killer Threshold control to the point where the color just disappears from the noise pattern on the screen.

PRELIMINARY CONVERGENCE ADJUSTMENTS

Connect the RF output of a white dot generator to the antenna terminals. Preset all red, green and blue horizontal and vertical convergence controls and coils to mid-range. Adjust the red, green and blue convergence magnets and the lateral magnet to produce a white dot in the center of the screen. Keep the receiver in sharp focus while making 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 yoke to the rear as far as possible. Shunt test points \diamond and \diamond to chassis thru individual 100K resistors. Slide the purity magnet around the neck of the picture tube and at the same time spread the 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 impurity occurs at the extreme edges of the raster. Color shading around the edges of the screen is corrected by adjusting the "Z" purity control (not in some models) and the edge purity magnets. Start adjustment with the "Z" purity control in the center or zero position. To find the center position, rotate the control back and forth over its range. A distinct detenting of the control will be felt at about center range. This is the zero point of the control. Advance the "Z" purity control SLIGHTLY either right or left from the zero position and at the same time push in on the control shaft. Check the raster to see if the edge purity has been improved. If it has improved, but further correction is required, advance the control even further in the same direction and push in on the shaft. Continue until the best edge purity is obtained. If the shading increased, turn the control to the other side of zero and repeat the above procedure for best edge purity. Too much correction may be noticed if the control was turned too far, in which case it will be necessary to turn the control SLIGHTLY past zero in the opposite direction and push in on the button. After best purity is obtained, return the control to center position.

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 settings of the red, blue and green magnets, and lateral magnet to produce a white dot in the center of the raster. Loosen the two screws holding the convergence board, slide the board to the left and remove. Fasten the board to the two screws provided on the top rail of the cabinet with the controls facing forward so that convergence adjustments may be performed from the front of the receiver. Slots are provided in the bottom edge of the board for this mounting. Switch the dot generator to vertical white bars and adjust the red and green Tilt controls for equal displacement of the center bar at the top and bottom. Adjust red and green vertical amplitude controls until the center 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 vertical tilt controls to keep the lines parallel. The center line should converge to produce a white vertical line from top to bottom or should show SLIGHT displacement of the red at one side and the green at the other with all lines parallel from top to bottom. Readjust the convergence magnets to superimpose the parallel lines making a 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 bar from the extreme top and bottom lines at the top center and bottom center of the raster. Reduce the blue vertical amplitude control to converge all lines at the center, retouching the blue vertical tilt SLIGHTLY, if necessary making all white lines 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 raster is a straight line. Adjust control B-2 for a straight blue line at the left side of the raster. If a straight line cannot be obtained, move the clip on the back of convergence control panel from pins "W" and 4 to 4 and "G". Adjust R-G-1 to make the vertical lines at the right side of the raster converge. Adjust R-G-2 to make horizontal red and green lines at the right side of screen converge. Readjust B-1 to make the blue line at the right center fall on converged red and green lines. Retouch R-G-1 for convergence of vertical lines at the right side. Adjust control R-G-3 to make 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. If it was impossible to achieve convergence at the left side with either R-G-3 or R-G-4, move the clip from terminal 8 and "G" to 8 and "V" and move the clip from 12 and "G" to 12 and "W". Now repeat adjustment of R-G-3 and R-G-4 and sufficient range will be obtained to converge in each case. After readjusting R-G-4, repeat adjustment of R-G-3 to compensate for any interaction. 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.

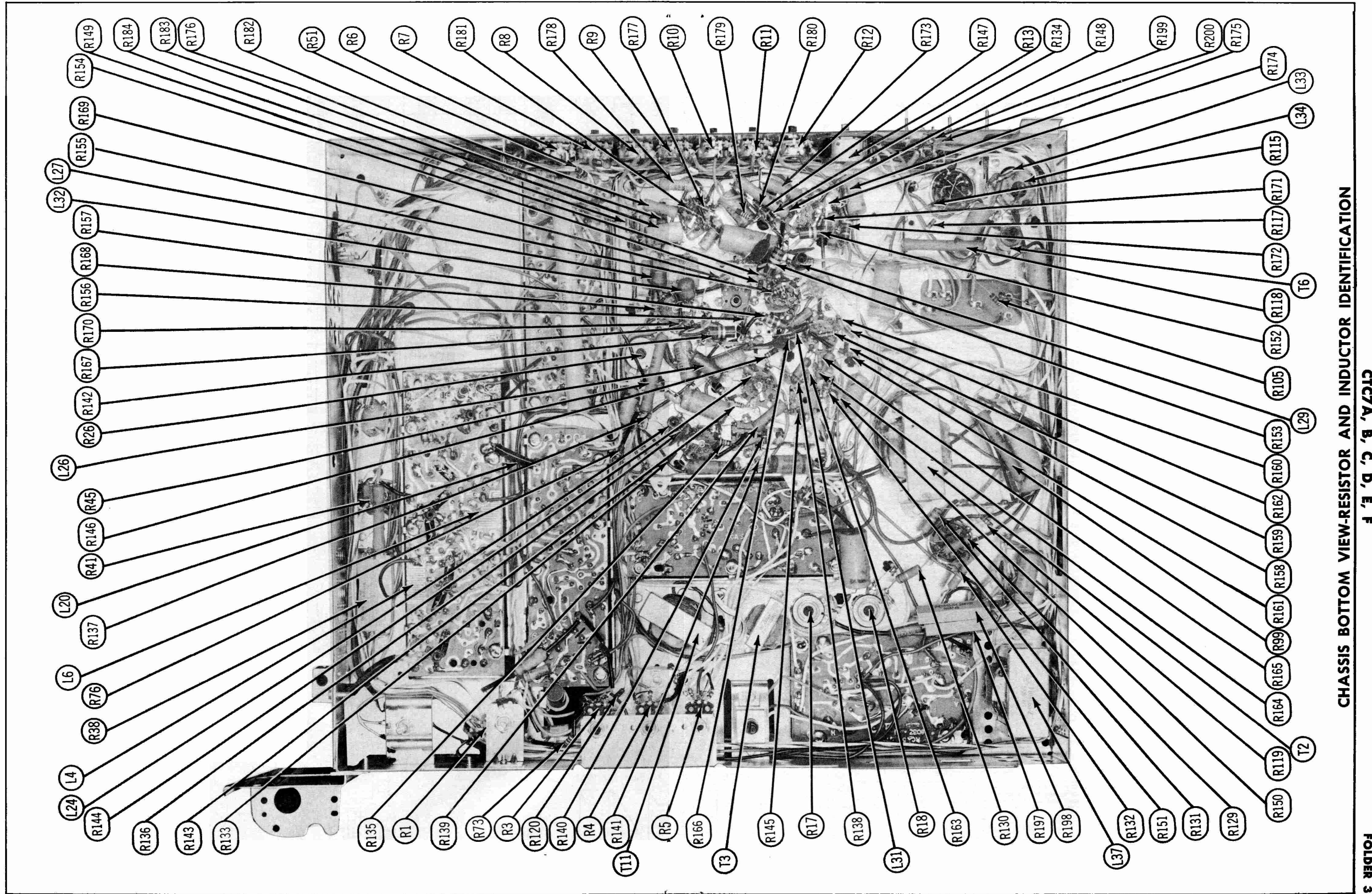
GRAY SCALE ADJUSTMENTS

Set the screen controls fully clockwise and the background controls fully counter clockwise. Turn the brightness and contrast controls fully counter clockwise after tuning in a station signal. Use a program which displays the full range of contrast from low lights to high lights. Advance the brightness control to obtain a picture just SLIGHTLY below normal brightness level, the control will usually fall at approximately two-thirds from full counter clockwise. Be careful not to advance the brightness too close to overload. If the picture appears to be too dim at the above setting, advance the contrast control SLIGHTLY. Adjust red, green and blue background controls to produce white in the high light areas of the picture. One screen control will be left at maximum clockwise rotation. Which one is determined as follows:

1. Yellow in Lowlight Areas - Blue screen should remain at maximum.
2. Cyan in Lowlight Areas - Red screen should remain at maximum.
3. Magenta in Lowlight Areas - Green screen should remain at maximum.
4. Red, Green or Blue in Lowlight Areas - This condition indicates that the screen control of the color appearing is set too high and must be reduced from maximum. Turn this screen control down slowly. One of the following conditions will occur:

- a. If the picture becomes gray the two remaining screens should remain at maximum setting and the corresponding background control for the screen that was turned down should be adjusted, with the brightness turned to normal brightness level, to produce a white in the highlight areas. The raster should now stay white (track) at all brightness levels. Recheck at low level and if necessary, retouch SLIGHTLY the screen control that was previously turned down to achieve gray in the lowlight areas. No further adjustments are required and the balance of this procedure does not apply.
- b. Yellow in Lowlight Areas - Blue screen should remain at maximum.
- c. Cyan in Lowlight Areas - Red screen should remain at maximum.
- d. Magenta in Lowlight Areas - Green screen should remain at maximum.

From this point on do not adjust either the screen or background control for the color which remains at maximum position. THIS IS IMPORTANT. Turn the brightness to a low level and adjust the two remaining screen controls to produce a gray picture in the lowlight areas. Advance the brightness to normal brightness level and adjust the two remaining background controls for white in the highlight areas. Check for proper gray scale at all brightness levels. It may be necessary to retouch SLIGHTLY the two screen controls at lowlight and the two background controls at highlights, remembering not to adjust either the screen or background controls for the color set at maximum.



CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION

RCA VICTOR CHASSIS
CTC7A, B, C, D, E, F

FOLDER 3

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

Remove fuse (M4) from the circuit and connect a 1500Ω 100W resistor from the B plus side of fuse holder to chassis. This will disable the high voltage circuit.

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 of V20. Positive to chassis.
 Connect a clip lead from point ⊕ to chassis. Preset sound reject (R19) at 75% clockwise 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. tube (V202). Low side to chassis.	43.8MC (Unmod)	4	DC probe thru 10K to point ⊕ . Common to chassis.	A1	Adjust for maximum deflection. Use peak with core 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. "	"	44.0MC	"	"	Mixer Plate Coil	Adjust for maximum deflection. Use only enough signal generator output to provide a usable indication on VTVM.
6. "	"	41.25MC	"	"	A5, R19	Adjust A5 and Sound Reject (R19) simultaneously for MINIMUM deflection with slug away from chassis. Reduce bias at point ⊕ as necessary for sufficient indication.
7. "	"	47.25MC	"	"	A6	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 in series with a 180Ω resistor from pin 5 (plate) of 6BZ6 (V2) to chassis with the resistor to chassis.
 Connect a 1000mfd capacitor across the scope leads.
 The video IF shield must be in place during alignment. Connect DC lead of VTVM to point ⊕ . Common to chassis. (Use negative scale on VTVM).
 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. tube (V202). Low side to chassis.	45MC	42.17MC 45.75MC	4	Vert. Amp. thru detector probe (Fig. 1) to pin 5 (plate) of 6BZ6 (V1). 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.
10. "	"	"	41.25MC	"	"		Retouch A7 to place marker in trap notch as in Fig. 2.
11. "	"	"	47.25MC	"	"		Retouch A7 to place marker in trap notch as in Fig. 2. Repeat step 9.
12. Remove the capacitor and resistor load from 6BZ6 (V2). Increase bias at point ⊕ to -6 volts.							
13. Direct	High side to ungrounded tube shield floating over mixer-osc. tube (V202). Low side to chassis.	45MC	41.85MC 42.17MC 42.75MC 45.0MC 45.75MC	4	Vert. Amp. thru 10K to point ⊕ . Low side to chassis.		Retouch A1, A2 and A3 for response similar to Fig. 3 with markers as shown. A1 controls tilt, A2 affects 42.17MC side of curve and A3 affects 45.75MC side. Use 3 volts peak to peak on scope.
14. Connect a .001mfd capacitor from point ⊕ to chassis.							
15. Direct	High side to ungrounded tube shield floating over mixer-osc. tube (V202). Low side to chassis.	45MC	41.25MC	4	Vert. Amp. thru 10K to point ⊕ . Low side to chassis.		Retouch A5 and R19 to place 41.25MC marker in trap notch, if necessary.
16. Fig. 4	Across VHF antenna terminals thru matching network (Fig. 4).	All VHF Channels Separately	42.17MC 45.0MC 45.75MC	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 15.

SOUND IF ALIGNMENT

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

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
17. .001mfd	High side to point ⊕ . Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	DC probe thru diode detector (Fig. 5) to pin 1 (grid) of 6DT6 (V7). Common to chassis. Connect scope across voice coil of speaker.	A8	Adjust for maximum deflection. Set generator output for 1 volt on VTVM. Use peak with slug nearest top of coil form.
18. "	"	"	"	"	A9, A10	Adjust for maximum deflection. Set generator output for 1 volt on VTVM. Peak with maximum core separation. Repeat steps 17 and 18.
19.	Disconnect the diode test circuit and VTVM. Turn off generator and tune in strongest signal in area. Adjust volume control for normal volume. Set All so that core is flush with top of form. Observe scope and listen to the sound. Change bias at point ⊕ to zero. Adjust All clockwise to a peak. Continue clockwise to second louder peak and adjust for maximum output at this second peak.					

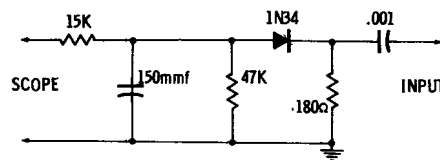


FIG. 1

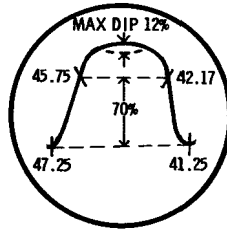


FIG. 2

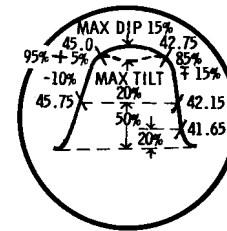


FIG. 3

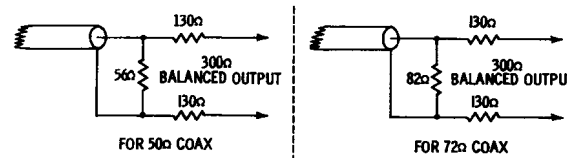


FIG. 4

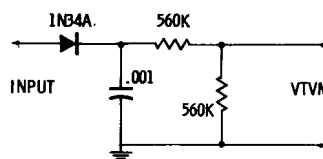


FIG. 5

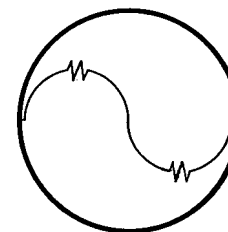


FIG. 6

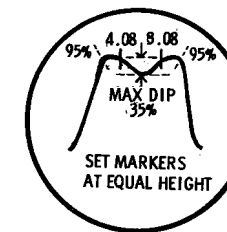


FIG. 7

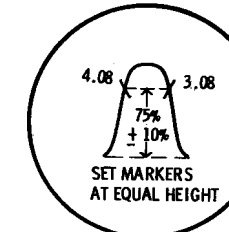


FIG. 8

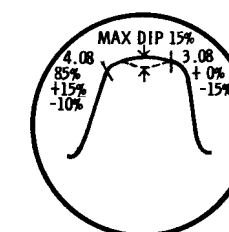


FIG. 9

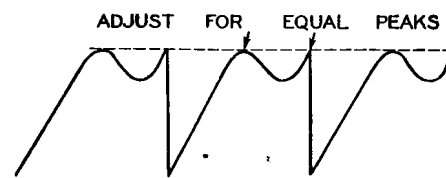


FIG. 10

ALTERNATE SOUND IF ALIGNMENT USING FM GENERATOR

Connect the negative lead of a 10 volt bias supply to point ⊕ . Positive to chassis.
 Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
17. .001mfd	High side to point ⊕ . Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	DC probe thru diode detector (Fig. 5) to pin 1 (grid) of 6DT6 (V7). Common to chassis.	A8	Adjust for maximum deflection. Set generator for 1 volt on VTVM. Use peak nearest top of coil form.
18. "	"	"	"	"	A9, A10	Adjust for maximum deflection. Set generator for 1 volt on VTVM. Peak with maximum core separation. Remove VTVM and detector test circuit.
19. "	"	4.5MC (400% FM Mod. 15KC Swp)	"	USE SCOPE Across speaker voice coil	All	Set All so that core is flush with top of coil form. While observing scope and listening to sound adjust All clockwise to a peak. Continue clockwise to a second louder peak and adjust All for maximum at this second peak. Decrease signal to MINIMUM usable signal and retouch A9 for symmetrical breakout similar to Fig. 6.

4.5MC TRAP ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
20. .001mfd	High side to point ⊕ . Low side to chassis.	4.5MC (400% AM Mod)	Any non-interfering channel	USE SCOPE Vert. Amp. thru detector probe to pin 6 (plate) of 6U8A (V17). Low side to chassis.	A12	Adjust for MINIMUM 400% indication on scope.

CHROMA BANDPASS ALIGNMENT

Connect the negative lead of a 7 volt bias supply to point ⊕ . Positive to chassis.
 Connect a short clip lead from point ⊕ to chassis.
 Turn the color control fully clockwise.
 For steps 23 and 24 connect separate marker generator to ungrounded tube shield of the 1st. Chroma Bandpass Amp. (V17). Low side to chassis to provide 4.08MC and 3.08MC markers.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
21. .lmd	High side to pin 2 (grid) of 6U8A (V17). Low side to chassis.	3.58MC (3-5MC Swp)	3.08MC 4.08MC	Any non-interfering channel	Vert. Amp. thru detector probe to pin 3 (grid) of 12AZ7 (V22). Low side to chassis.	A13, A14	Adjust for response similar to Fig. 7.
22. Turn the brightness, contrast and noise threshold controls fully counter clockwise. Connect a 330Ω resistor and a 4mfd capacitor in series from the plate (pin 6) of 6U8A (V17) to chassis.							
23. Direct	High side to ungrounded tube shield floating over mixer-osc. tube (V202). Low side to chassis.	45MC (10MC Swp)	45.75MC 4.08MC 3.08MC	Any non-interfering channel	Vert. Amp. thru detector probe to pin 2 (grid) of 12AZ7 (V22). Low side to chassis.	A15	Remove clip lead between point ⊕ and chassis. Adjust A15 for response similar (Fig. 8). Peak with core nearest chassis end of coil form.
24. "	"	"	"	"	"		Remove resistor and capacitor from pin 6 of V17. Check for response similar to Fig. 9. If necessary, retouch A13 for flat response.

TUNER ALIGNMENT

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

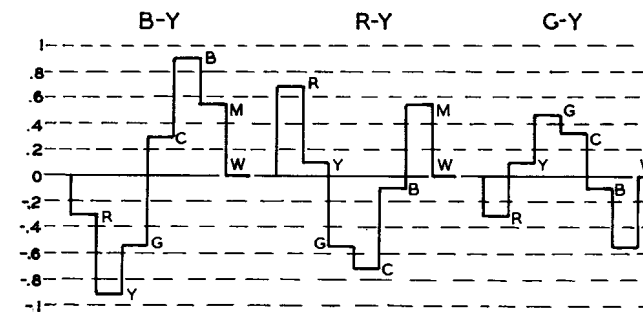
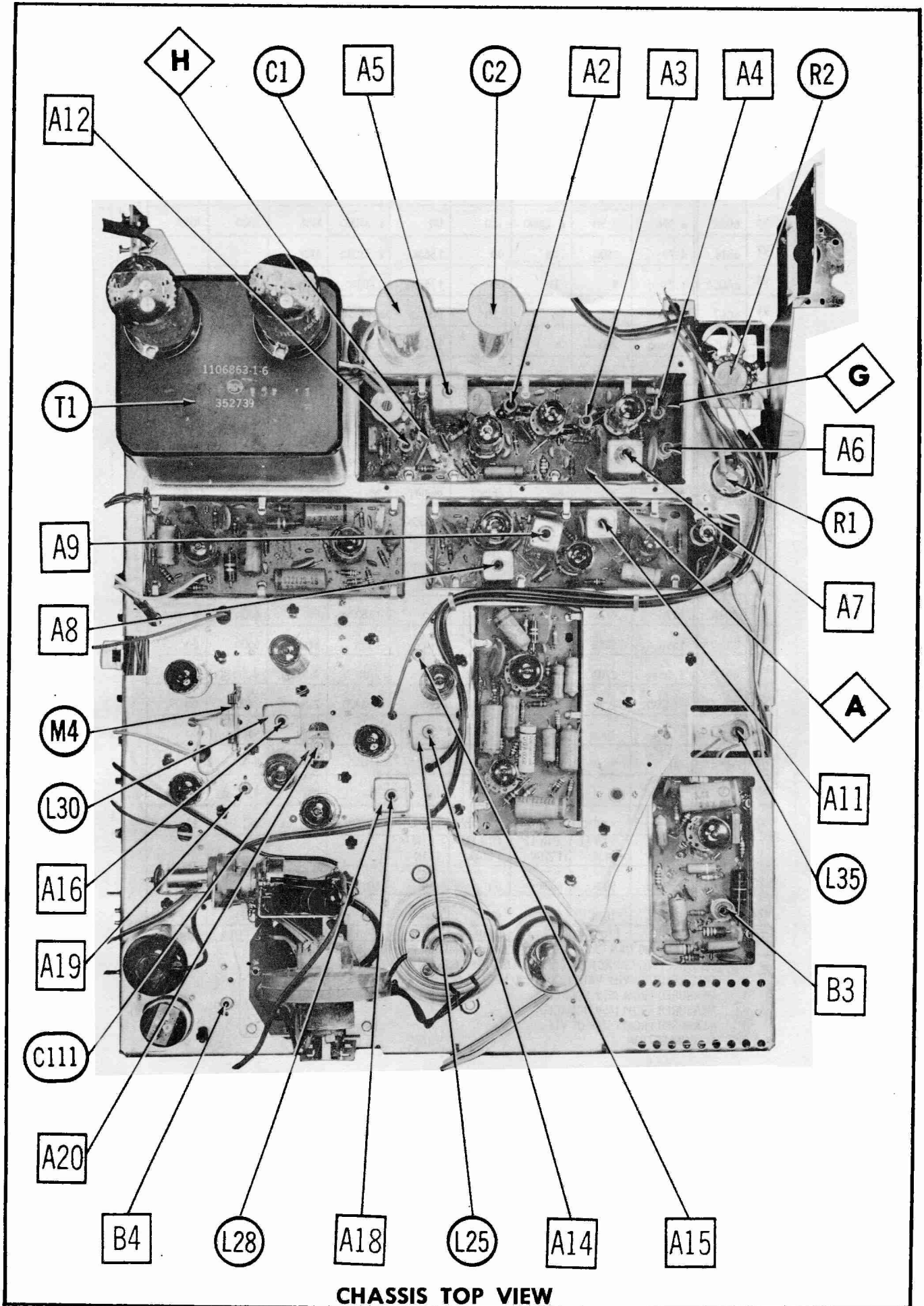


FIG. 11



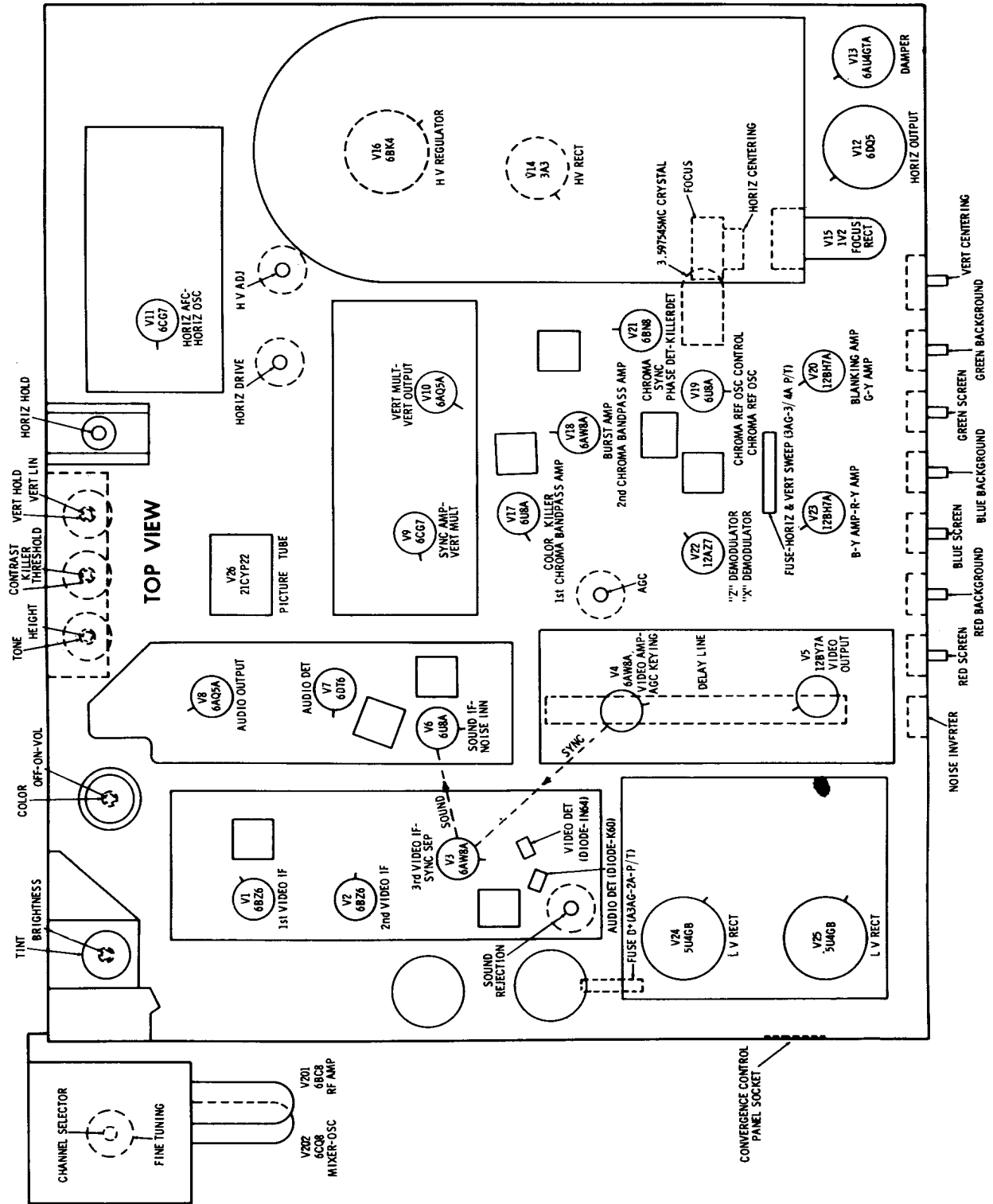
CHASSIS TOP VIEW

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	†5400 Ω	†5400 Ω	0 Ω		
V2	6BZ6	100K	68 Ω	.1 Ω	0 Ω	†5400 Ω	†5400 Ω	0 Ω		
V3	6AW8A	0 Ω	2.2meg	■ 1meg	.1 Ω	0 Ω	150 Ω	.2 Ω	†6800 Ω	†6800 Ω
V4	6AW8A	■ 0 Ω	†55K	520K	.1 Ω	0 Ω	850 Ω	5300 Ω	†20K	†7600 Ω
V5	12BY7A	● 380 Ω	350K	0 Ω	.1 Ω	.1 Ω	0 Ω	†4300 Ω	†23K	0 Ω
V6	6U8A	■ 39K	5.5 Ω	■ 3300 Ω	.1 Ω	0 Ω	■ 3300 Ω	82 Ω	900 Ω	850K
V7	6DT6	4.7 Ω	560 Ω	.1 Ω	0 Ω	†560K	■ 3300 Ω	470K		
V8	6AQ5A	1.2meg	¶	.1 Ω	0 Ω	†350 Ω	†800 Ω	1.2meg		
V9	6CG7	■ 10K	33K	0 Ω	.1 Ω	0 Ω	● †4.5meg	● 2.1meg	0 Ω	0 Ω
V10	6AQ5A	1.8meg	28 Ω	0 Ω	.1 Ω	†3100 Ω	†2700 Ω	1.8meg		
V11	6CG7	†0 Ω	330K	480K	.1 Ω	0 Ω	†39K	550K	0 Ω	0 Ω
V12	6DQ5	500K	0 Ω	0 Ω	†11K	500K	0 Ω	.1 Ω	†11K	TOP CAP †19 Ω
V13	6AU4GT	NC	NC	¶	NC	†22 Ω	NC	0 Ω	.1 Ω	
V14	3A3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †485 Ω
V15	1V2	NC	NC	NC	66meg	66meg	NC	NC	NC	● †78K
V16	6BK4	†20 Ω	†11K	NC	NC	● 850K	NC	†11K	NC	TOP CAP INF
V17	6U8A	150K	330K	†13K	.1 Ω	0 Ω	†13K	0 Ω	0 Ω	5.5meg
V18	6AW8A	330 Ω	100K	†23K	0 Ω	.1 Ω	10K	4700 Ω	†800 Ω	†1200 Ω
V19	6U8A	†12K	47K	†47K	0 Ω	.1 Ω	†1800 Ω	0 Ω	680 Ω	2.1meg
V20	12BH7A	†39K	280K	330 Ω	.1 Ω	.1 Ω	†15K	1meg	560 Ω	0 Ω
V21	6BN8	1.4meg	270 Ω	1.5meg	0 Ω	.1 Ω	270 Ω	4.5meg	4.5meg	1.5meg
V22	12AZ7	†6400 Ω	2.5 Ω	1500 Ω	.1 Ω	.1 Ω	†6400 Ω	2.5 Ω	1500 Ω	0 Ω
V23	12BH7A	†15K	1meg	560 Ω	.1 Ω	.1 Ω	†15K	1meg	560 Ω	0 Ω
V24	5U4GB	NC	¶	NC	12 Ω	NC	11 Ω	NC	¶	
V25	5U4GB	NC	¶	NC	12 Ω	NC	11 Ω	NC	¶	
V26	21CYP22	†11K	†280K	● †110K	†7200 Ω	†3600 Ω	†270K	● †120K	NC	67meg
		PIN 10 NC	PIN 11 ● †120K	PIN 12 †270K	PIN 13 †2700 Ω	PIN 14 †11K				
V201	6BC8	†5500 Ω	500K	600K	0 Ω	.1 Ω	600K	750K	0 Ω	0 Ω
V202	6CQ8	†2400 Ω	100K	INF	.1 Ω	0 Ω	INF	0 Ω	INF	INF

- ¶ THIS READING CAN VARY GREATLY, (10K MINIMUM), DUE TO THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.
- THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.
- † MEASURED FROM 385V SOURCE.
- MEASURED FROM 145V SOURCE.
- ‡ MEASURED FROM PIN 3 OF V13
- NC NO CONNECTION

TUBE PLACEMENT CHART



RCA VICTOR CHASSIS
CTC7A, B, C, D, E, F

FOLDER 3

PARTS LIST AND DESCRIPTIONS

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	1st. Video IF Amp.	6BZ6		V15	Focus Rect.	1V2	
V2	2nd. Video IF Amp.	6BZ6		V16	HV Regulator	6BK4	
V3	3rd. Video IF Amp. - Sync Sep.	6AW8A		V17	Color Killer - 1st. Chroma Bandpass Amp.	6U8A	
V4	Video Amp. -AGC Keying	6AW8A		V18	Burst Amp. -2nd. Chroma Bandpass Amp.	6AW8A	
V5	Video Output	12BY7A		V19	Chroma Ref. Osc. Control-Chroma Ref. Osc.	6U8A	
V6	Sound IF Amp. - Noise Inv.	6U8A		V20	Blanking Amp. - G-Y Amp.	12BH7A	
V7	Audio Det.	6DT6		V21	Chroma Sync Phase Det. - Killer Det.	6BN8	
V8	Audio Output	6AQ5A		V22	"Z" Demodulator - "X" Demodulator	12AZ7	
V9	Sync Amp. -Vert. Mult.	6CG7		V23	B-Y Amp. - R-Y Amp.	12BH7A	
V10	Vert. Mult. -Vert. Output	6AQ5A		V24	LV Rectifier	5U4GB	
V11	Horiz. AFC-Horiz. Osc.	6CG7		V25	LV Rectifier	5U4GB	
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.	SYLVANIA PART No.	
V26	21CYP22		21CYP22	21CYP22	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	RCA Victor PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1A	80	450	105219	AFH3-182-80	B0489	FP266	TMD-93	T-740	*R2657
B	50	350			BRI0035	TC1265	TD-100-200	MT-4550	
C	100	200							
C2A	80	450	105218	AFH4-18-45	B0489	FP266	TMD-93	Q-061	*R2658
B	50	450			BR505	TC39	TD-50-50	MT-0550	
C	150	50							
C3	2	350	78920	PRS450V2	BR245		TD-2-450	MT-4502	TVA-1701

* Non-catalog item.

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.	RCA Victor PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	
C4	9		105298							± .25mmf
C5	150		105299							5%
C6	680		102237							N2200 10%
C7	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	DC521	5HK-D1	
C8	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	DC521	5HK-D1	
C9	1000		77252	BPD-001	DF-102	BYA10DIM	ED-1000	DC521	5HK-D1	
C10	680		102237							N2200 10%
C11	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	DC521	5HK-D1	
C12	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	DC521	5HK-D1	
C13	2		105305							N4700
C14	470		105302							± .25mmf
C15	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	DC521	5HK-D1	N1500 10%
C16	1500		73748	BPD-0015	DD-152	BYA10D15	ED-1500	DC5215	5HK-D15	
C17	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	DC521	5HK-D1	
C18	10		105303							N150 10%
C19	22		102793	N750-D1 22	TCN-22	C10Q22U	TC7-22		5TCU-Q22	N750 10%
C20	100		105304		TCZ-100		TCO-100			5%
C21	1000		102234A				ED-1000			10%
C22	.1	200	105239	P288N-1	DF-104	LI0D1		GEM-201	2TM-P1	
C23	.22	200	104310	P288N-22		CUB2P22		GEM-2022	2TM-P22	
C24	3900		104215			LI0D39				10%
C25	390		105310			LI0T39	ED-390			10%
C26	470		78622	BPD-00047	DD-471	BYA10T47	ED-470	UC-5347	5GA-T47	
C27	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	DC521	5HK-D1	
C28	.22	200	104310	P288N-22		CUB2P22			2TM-P22	
C29	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	DC521	5HK-D1	
C30	10000		73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C31	1.5		103411							N3300
C32	10		105303							N150 10%
C33	4.7		105289	NPO-SI 4.7	DTZ-4R7	CTA6V47C	TCO-4.7	ZT-5547	5TCCB-V47	
C34	2200		104899			LI0D22				10%
C35	10000		73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C36	10000		73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C37	560		105248			LI0T56	ED-560			10%
C38	.0068	400	105229	P288N-0068	D6-682	CUB6D68	GP-6800	GEM-6268	6TM-D68	
C39	.047	200	104133	P288N-047	DF-503	CUB2S47		GEM-4147	2TM-S47	
C40	10000		73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C41	10000		73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C42	.0018	400	102217A		DD-182					10%
C43	.0027	1600	105290							10%
C44	.0047	400	105230							10%
C45	1000		77252	BPD-001	DD-102	BYA10DIM	ED-1000	GEM-16247	5HK-D1	
C46	10000		73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C47	330		105301			LI0T33	ED-330	UC-5333		10%
C48	.01	400	102220A					GEM-1611		10%
C49	.033	400	104143	P488N-033		CUB4S33		GEM-4133	6TM-S33	
C50	390		105310			LI0T39	ED-390			10%
C51	.01	400	102220A					GEM-1611		10%
C52	.0082	400	105314					GEM-16282		10%
C53	10000	1000	100910		DD-103	BYA10S1		DC511	5HK-S1	
C54	.0082	600	105315					GEM-16282		10%
C55	.033	400	105318							10%
C56	.056	600	105317							10%
C57	.12	400	105319							10%
C58	.001	2000	105320							10%
C59	.0056	400	105316					GEM-16256		10%
C60	.01	400	102220A	P488N-01	D6-103	CUB4S1	GP-10000	GEM-411	4TM-S1	
C61	.47	200	104398	P288N-47		CUB4P47		GEM-2047	2TM-P47	

RCA VICTOR CHASSIS
CTC7A, B, C, D, E, F

FOLDER 3

PARTS LIST AND DESCRIPTIONS (Continued)
CONTROLS (cont)

ITEM No.	RATING	REPLACEMENT DATA							NOTES
		RCA Victor PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	
C82	.47	104393	P288N-47						N750 10%
C83	82	105232							10%
C84	39	105233	NPO-SI 39	D6-390	CTA639C	GP-39			
C85	1000	102434A	BPD-001	DD-102	BYA10DLM	ED-1000	DC521	STCC-Q39	
C86	.27	400	105232						10%
C87	.0033	400	105234						5%
C88	390	102512	P488N-0033	D6-332	CUB6D33	GP-3300	GEM-6233	8TM-D33	
C89	.01	600	73594						5%
C90	680	39648	1469-00068						5%
C91	.0033	600	105234						
C92	.01	600	105231	D6-103	CUB6D33	GP-3300	GEM-6233	8TM-D33	
C93	10000	73960	P688N-01	DD-103	CUB6S1	GP-10000	GEM-611	8TM-S1	
C94	.1	600	104311	DD-103	BYA10S1	GP-10000	DC511	5HK-S1	
C95	100	2500	105418	DF-104	CUB6P1		GEM-601	8TM-P1	
C96	470	2000	104383						N1500 10%
C97	470	2000	104383						N2200 10%
C98	33	4000	105417						N1500 10%
C99	.15	200	104908						10%
C100	.1	600	105235						10%
C101	22	1000	105233						N1500
C102	.47	200	73787	DTN-22	C10Q22U	TC7-22		STCU-Q22	
C103	.47	200	73787	P288N-47	CUB2P47		GEM-2047	2TM-P47	
C104	56	6000	105233	P288N-47	CUB2P47		GEM-2047	2TM-P47	
C105	.0033	600	105234						
C106	.047	600	105231	D6-332	CUB6D33	GP-3300	GEM-6233	8TM-D33	
C107	.047	200	104133	DF-503	CUB6S47		GEM-6147	8TM-S47	
C108	10000	73960	P288N-01	DD-103	BYA10DLM	ED-01	DC511	5HK-S1	
C109	27	100352	NPO-SI 27	TCZ-27	CTA627C	TCC-27			NPO 10%
C110	27	105237							N150 10%
C111	.1	200	105239	DF-104	CUB2P1		GEM-201	2TM-P1	
C112	.1	400	104487	DF-104	CUB4P1		GEM-401	4TM-P1	
C113	330	105301			L10T33	ED-330			10%
C114	.1	200	105239	DF-104	CUB2P1		GEM-201	2TM-P1	
C115	10000	73960	P288N-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C116	560	105248			L10T56	ED-560			10%
C117	10000	73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C118	10000	73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C119	22	400	105243						10%
C120	4	104209							N220 5%
C121	10000	73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C122	10000	73960	BPD-2X01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C123	220	105245							N750 10%
C124	82	105246							NPO 10%
C125	.0022	200	105241	DTZ-82	C10Q22C	TCC-82		STCU-T22	
C126	.0022	200	105241						10%
C127	.0022	200	105241						10%
C128	10000	73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C129	10000	73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C130	.47	200	104393						10%
C131	10-160	105217							Note 1
C132	.0022	200	105241						10%
C133	10000	73960	BPD-01	DD-103	BYA10S1	ED-01	DC511	5HK-S1	
C134	4700	105244							
C135	.1	200	105239	DF-104	CUB2P1		GEM-201	2TM-P1	
C136	120	105242							
C137	180	105249							
C138	22	104063							
C139	.047	400	104809	DTZ-22	C10Q22C	TCC-22		STCC-Q22	
C140	22	104063							5%
C141	.01	400	102220A	DTZ-22	C10Q22C	TCC-22		STCC-Q22	
C142	.047	400	105240						10%
C143	.01	400	102220A						10%
C144	.047	400	105240						10%
C145	.01	400	102220A						10%
C146	.047	400	105240						10%
C147	1000	77252							
C148	1000	77252							
C149	1000	77252							
C150	.1	200	105061	DTZ-120	TCC-120				NPO 10%
C151	.1	200	105061	DTZ-120	TCC-120				NPO 10%
C152	.056	200	105062						5%
C153	.082	200	105063						5%
C154	.1	200	105061						5%
C155	.047	600	73592						10%

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA							INSTALLATION NOTES
		RCA Victor PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.			
R1A	500G	105201	F1-1					Color ①	
R1B	1meg		RB-57					Volume - Tap ② 200K ①	
R2A	1200G	105202	KB-1 or KR-1*						
R3A	2.5meg	105200	RL-34					Tint ②	
R4A	500G	105199						Brightness ②	
R5A	2.5meg	105198						Tone	
R6A	2.5meg	105204	AB-83 †	A47-2.5meg	Q1-239 †	TA255L †		Height	
R7A	1meg	105205	AK-1	FKS-1/4	Not Req.	Not Req.		Contrast	
R8A	2meg	105206	AB-75 †	A47-2meg	Q1-137 †	TA26L †		Filter Threshold	
R9A	1meg	105205	AK-1	FKS-1/4	Not Req.	Not Req.		Vert. Hold	
R10A	2meg	105206	AB-75 †	A47-2meg	Q1-139 †	TA26L †		Vert. Lin.	
R11A	1meg	105205	AK-1	FKS-1/4	Not Req.	Not Req.		Noise Inverter	
R12A	2meg	105206	AB-75 †	A47-2meg	Q1-139 †	TA26L †			
R13A	15G	2(WW)	WN-150	A58-15	Not Req.	Not Req.		Blue Screen	
R14	100K	1	Not Req.	FKS-1/4	Not Req.	Not Req.		Green Screen	
R15	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.		Blue Background	
R16	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.		Green Background	
R17	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R18	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R19	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R20	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R21	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R22	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R23	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R24	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R25	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R26	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R27	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R28	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R29	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R30	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R31	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R32	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R33	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R34	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R35	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R36	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R37	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R38	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R39	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R40	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R41	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R42	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R43	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R44	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R45	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R46	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R47	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R48	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R49	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R50	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R51	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R52	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R53	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R54	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R55	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R56	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R57	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R58	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R59	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R60	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R61	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R62	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R63	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R64	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R65	100G	2(WW)	Not Req.	FKS-1/4	Not Req.	Not Req.			
R66	100G	2(WW)	Not Req.						

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (HORIZ. OSC.)

ITEM No.	DC RES.		REPLACEMENT DATA					NOTES	
	PRI.	SEC.	RCA Victor PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	Ram PART No.		Thordarson PART No.
L35	76Ω *		105197		TV-165			HS-7	Horiz. Freq. * Tapped @ 52Ω Horiz. Waveform
L36	46Ω		102195						

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA						
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000 ~)	RCA Victor PART No.	Halldorson PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triod PART No.
L37	.450A	17Ω	.7 Hy.	105195						

RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA					NOTES
	CURRENT (Measured)	RCA Victor PART No.	FEDERAL PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	SARKES TARZIAN PART No.	
MI		105064 ①			59-0639 ①		① Selenium Type.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA								
			RCA Victor PART No.		LITTELFUSE PART No.		BUSS PART No.				
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER			
M2	#21 Wire	3" Long	102792								
M3	3AG	2A 250V	102182								
M4	3AG	3/4A 250V	105252								

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		RCA Victor PART No.	CBS PART No.	SYLVANIA PART No.	
M5	1N64	76675A	1N64	1N60	Video Det. (Pigtail) Sound Det. (Pigtail)
M6	K60	76675A	1N64	1N60	

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M7	Lamp	103211	#47 Not used in Ch. CTC7E, F VHF (KRK48A/B) Ch. CTC7A, C, E UHF-VHF (KRK49A/B) Ch. CTC7B, D, F UHF (KRE56D) Ch. CTC7B, D, F UHF (KRE56E) Ch. CTC7B, D, F
M8	Tuner	104948	
	Tuner	104947	
	Tuner	104594	
	Tuner	105433	
M9	Delay Line	105253	
M10	Crystal	105330	
M11	Magnet	105027	
M12	Magnet	105038	
M13	Magnet	105024	
	Switch	105177	
	Printed Board	105260	
	Printed Board	105261	
	Printed Board	105259	
	Printed Board	105262	
	Printed Board	105263	
	Printed Board	105067	
			3.579545MC Edge Purity (8 Required) Lateral Assembly Convergence (3 Required) Part of T10 SPDT, "Z" Purity Video IF & Sync - Less Tubes & Shields Video & AGC - Less Tubes & Shields Sound - Less Tubes & Shields Sync & Vert. - Less Tubes Horiz. Osc. - Less Tubes Convergence

CABINETS & CABINET PARTS

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

NAME	PART NO.	DESCRIPTION
Safety Glass	105014	Models 21CD8725, U, 21CD8727, U
Safety Glass	105008	All models except 21CD8725, U, 21CD8727, U
Mask	105007	
Knob	100407	Focus
Knob	105179	"Z" Purity
Knob	104993	Color, Tint - Dark Wine
Knob	104994	Color, Tint - Taupe
Knob	102581	Tone, Contrast, Vert. Hold, Horiz. Hold
Knob	104637	UHF Dial Escutcheon - Dark Wine
Knob	104638	UHF Dial Escutcheon - Gray
Knob	101146B	UHF Dial Escutcheon - Clear
Knob	102653	UHF Tuning - Models 21CD8725U, 21CD8775U, 21CD8865U, 21CD8885U
Knob	102749	UHF Tuning - Model 21CD8888U
Knob	101144B	UHF Tuning - Models 21CD8926U, 21CD8927U, 21CD8949U
Knob	102578	UHF Tuning - Taupe
Knob	104978	VHF Channel Selector - Models 21CD8725, 21CD8775
Knob	104979	VHF Channel Selector - Models 21CD8727, 21CD8776, 21CD8777
Knob	104981	VHF Channel Selector - Models 21CD8725U, 21CD8775U
Knob	104982	VHF Channel Selector - Models 21CD8727U, 21CD8776U, 21CD8777U
Knob	104984	VHF or UHF Channel Selector - Models 21CD8865, U, 21CD8885, U
Knob	104985	VHF or UHF Channel Selector - Taupe
Knob	104986	VHF or UHF Channel Selector - Mocha
Knob	104987	Fine Tuning - Dark Wine
Knob	104988	Fine Tuning - Taupe
Knob	104989	Fine Tuning - Mocha
Knob	104990	Volume or Brightness - Models 21CD8725, U, 21CD8775, U, 21CD8865, U, 21CD8885, U
Knob	104991	Volume or Brightness - Taupe
Knob	104992	Volume or Brightness - Mocha
Dial	105184	VHF Channel Indicator Dial Assy. - Less Shaft - Ch. CTC7C
Dial	105187	VHF-UHF Channel Indicator Dial Assy. - Less Shaft - Ch. CTC7D
Dial	105545	VHF-UHF Channel Indicator Dial Assy. - Less Shaft - Ch. CTC7E
Dial	105544	VHF-UHF Channel Indicator Dial Assy. - Less Shaft - Ch. CTC7F

PARTS LIST AND DESCRIPTIONS (Continued)

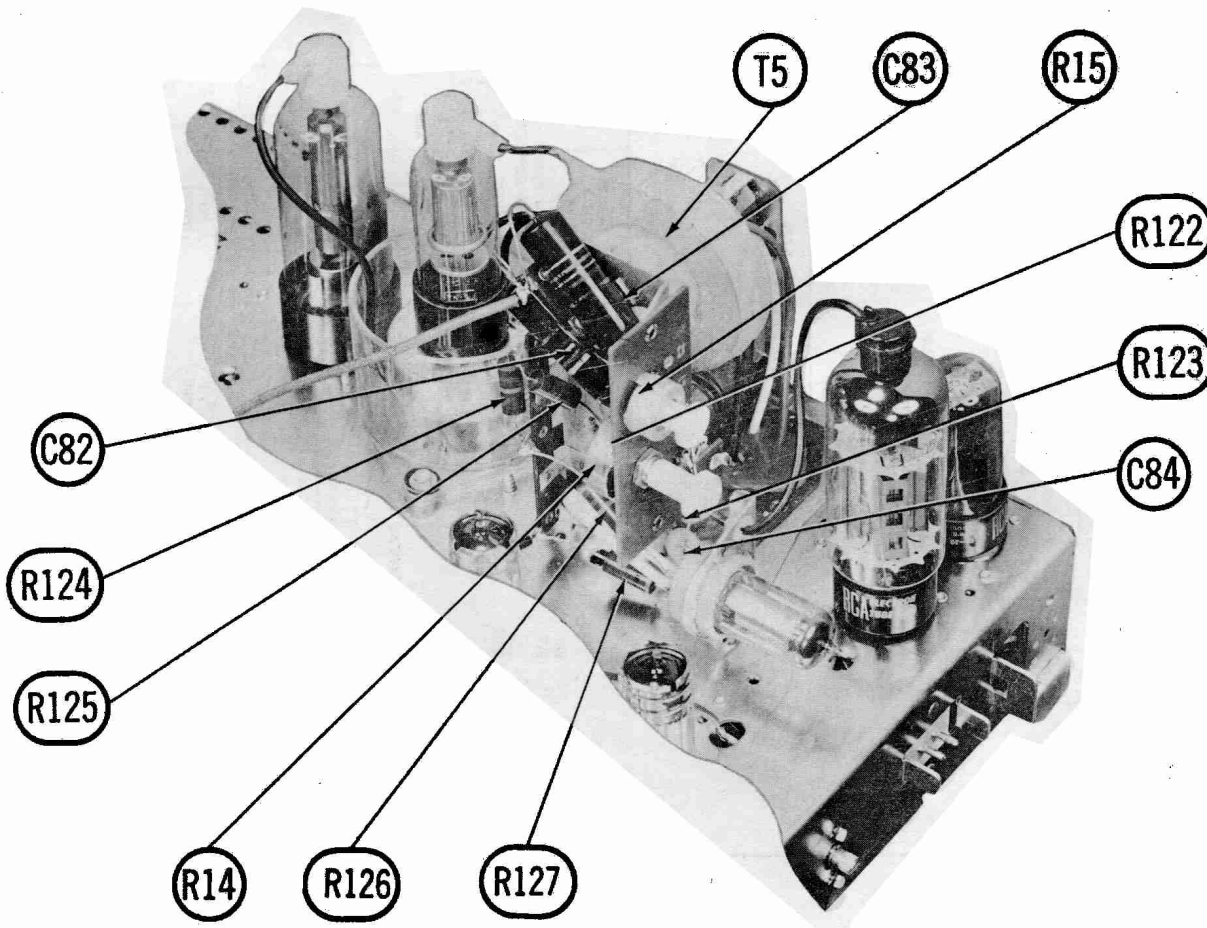
CABINETS & CABINET PARTS(cont)

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

NAME	PART NO.	DESCRIPTION
Leg	X3907	Models 21CD8775, U
Leg	X3908	Models 21CD8776, U
Leg	X3909	Models 21CD8777, U
Leg	X3910	Models 21CD8865, U
Leg	X3911	Models 21CD8866, U
Leg	X3912	Models 21CD8867, U
Cabinet	Z4235	Models 21CD8725, U
Cabinet	Z4236	Models 21CD8727, U
Cabinet	M4237	Models 21CD8775, U
Cabinet	M4238	Models 21CD8776, U
Cabinet	M4239	Models 21CD8777, U
Cabinet	M4245	Models 21CD8865, U
Cabinet	M4246	Models 21CD8866, U
Cabinet	M4247	Models 21CD8867, U
Cabinet	X4248	Models 21CD8885, U
Cabinet	X4249	Models 21CD8886, U
Cabinet	X4250	Models 21CD8888, U
Cabinet	X4252	Models 21CD8906, U
Cabinet	X4251	Models 21CD8907, U
Cabinet	X4274	Models 21CD8926, U

WIRING DATA

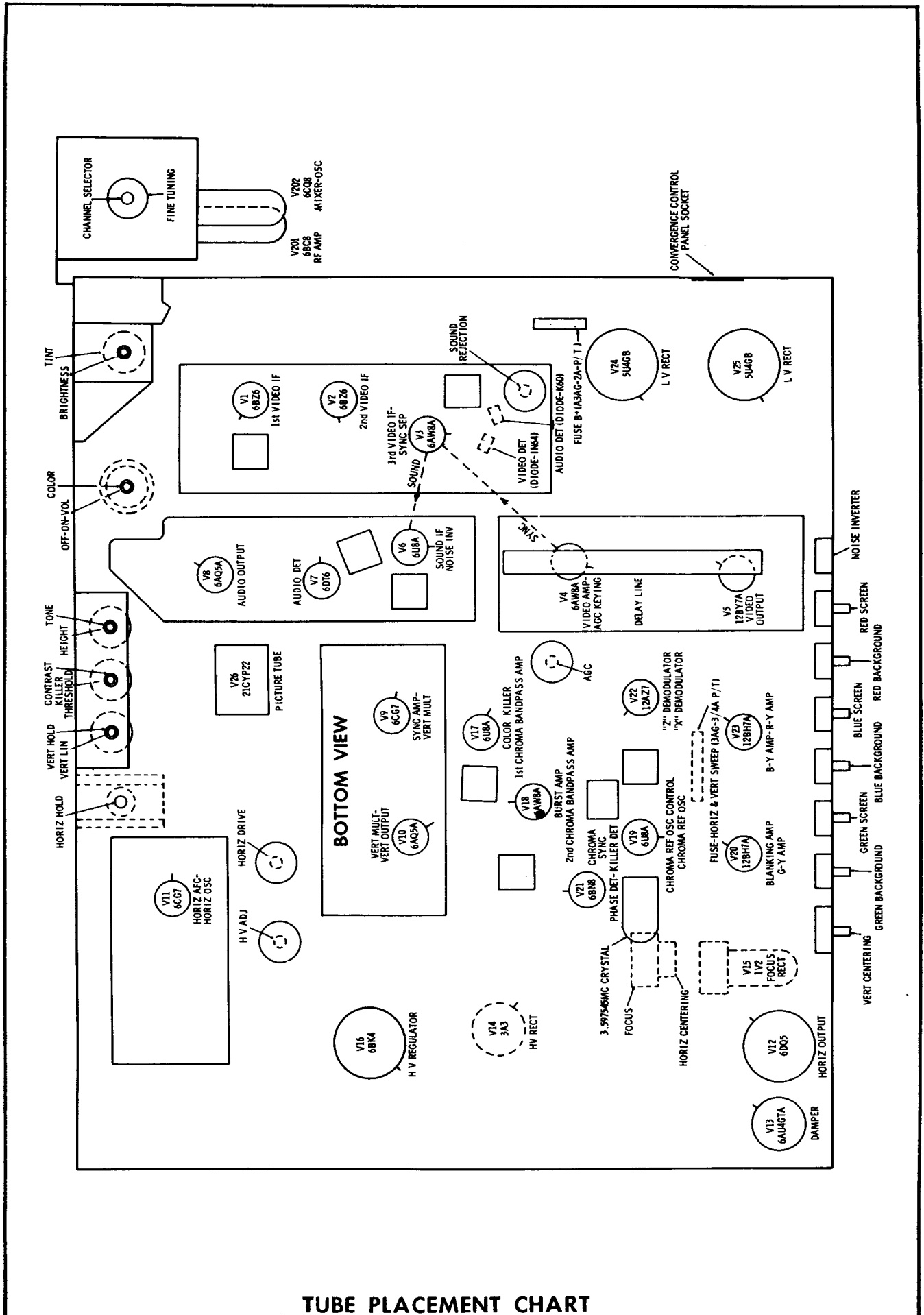
High Voltage Lead	Use BELDEN No. 8889
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8484 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor



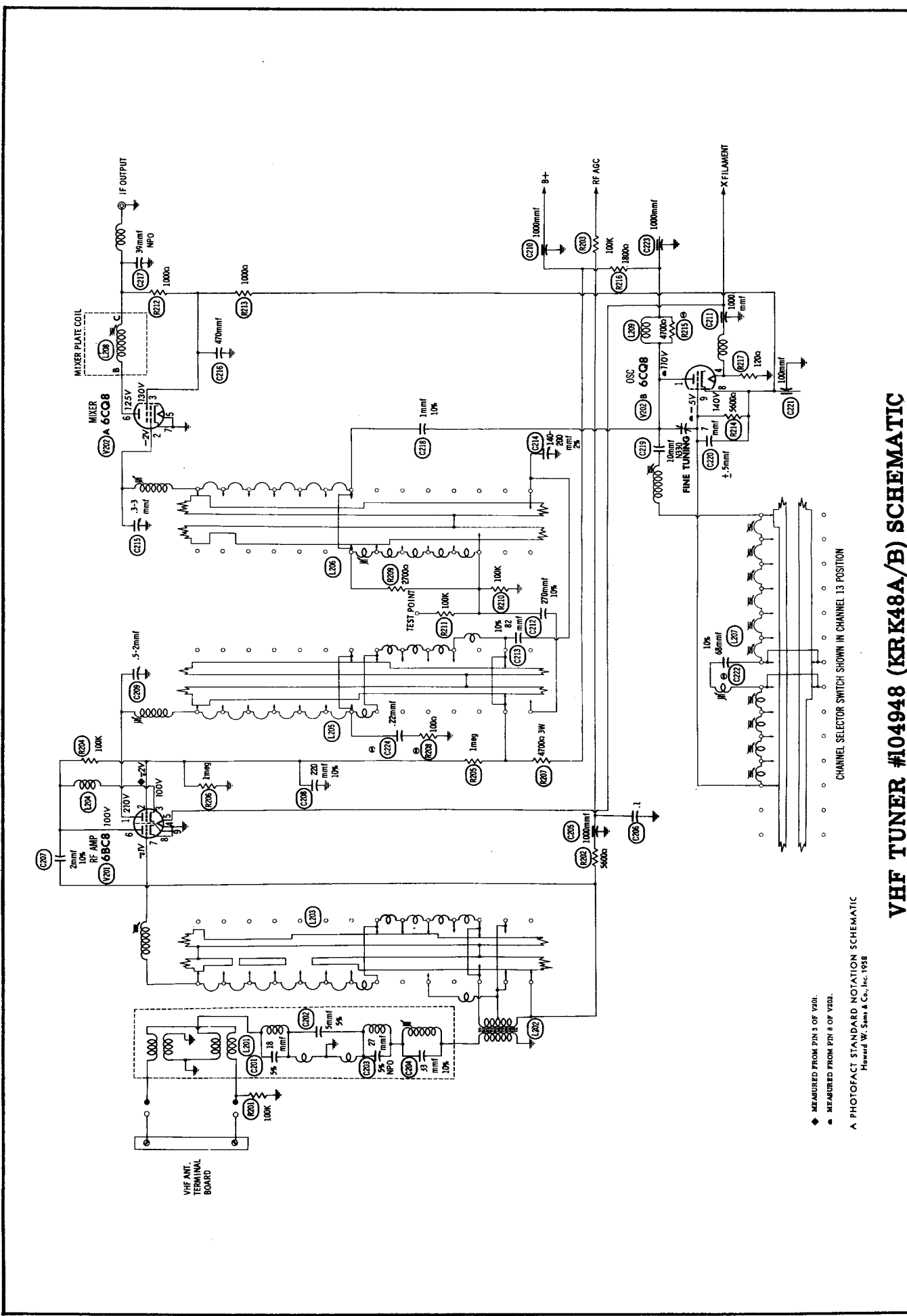
HIGH VOLTAGE COMPARTMENT

RCA VICTOR CHASSIS
CTC7A, B, C, D, E, F

FOLDER 3



TUBE PLACEMENT CHART



◆ MEASURED FROM PIN 3 OF V101.
 ● MEASURED FROM PIN 8 OF V102.
 A PHOTOFACT STANDARD NOTATION SCHEMATIC
 Howard W. Sams & Co., Inc. 1958

VHF TUNER #104948 (KRK48A/B) SCHEMATIC

**RCA VICTOR CHASSIS
 CT7A, B, C, D, E, F**

FOLDER 3

TUNER PARTS LIST AND DESCRIPTIONS

TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V201	RF Amp.	6BC8		V202	Mixer-Osc.	6CQ8	

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	RCA Victor PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.		
C201	18		102646		TCZ-18	C10Q8C	TCO-18				5%
C202	5		102571	NPO-DI 5.0	TCZ-4R7	C10V5C	TCO-5			5TCCB-V47	5%
C203	27		100352		TCZ-27	C10Q27C	TCO-27				NPO 5%
C204	33		102573	NPO-SI 33	TCZ-33	C10Q33C	TCO-33		ZT-5433		10%
C205	1000		103517	EF-001	MFT-1000					5TCC-Q33	
C206	.1	200	105239	P288N-1	DF-104	CUB2P1			GEM-201	503C-D1	
C207	.2		78047	NPO-SI 2.2	TCZ-2R2	C10V2C	TCO-2.2			2TM-P1	
C208	220		100672		D6-221	L10T22	ED-220			5TCCB-V22	10%
C209	.5-2		103554		829-3		3115-D		CT565A	MS-322	10%
C210	1000		103517	EF-001	MFT-1000					503C-D1	
C211	1000		103517	EF-001	MFT-1000					503C-D1	
C212	270		77838		D6-271	L10T27	ED-270			MS-327	10%
C213	82		103560	1469-000082	D6-820	22R5Q82	ED-82			MS-482	10%
C214	140-200		103519								2%
C215	.3-3		103552								
C216	470		78822	BPD-00047	DD-471	BYA10T47	ED-470		UC-5347	5GA-T47	
C217	39		104931	NPO-DI 39	TCZ-39	C10Q39C	TCO-39				NPO
C218	1		77690		TCZ-1		TCO-1			5TCCB-V1	10%
C219	10		103556								N330
C220	7		103523		TCZ-8R8	C10V7C	TCO-6.8		ZT-5568		±.5mmf
C221	100		103518	EF-0001	MFT-100					503C-T1	
C222	68			NPO-DI 68	D6-680	L10Q68	ED-68			5TCC-Q68	10% ①
C223	1000			EF-001	MFT-1000					503C-D1	
C224	.22										②

① Some versions may use 47mmf N1500 in this application (Part #103559).
 ② Some versions may use .68mmf 10% in this application (Part #71504).

RESISTORS

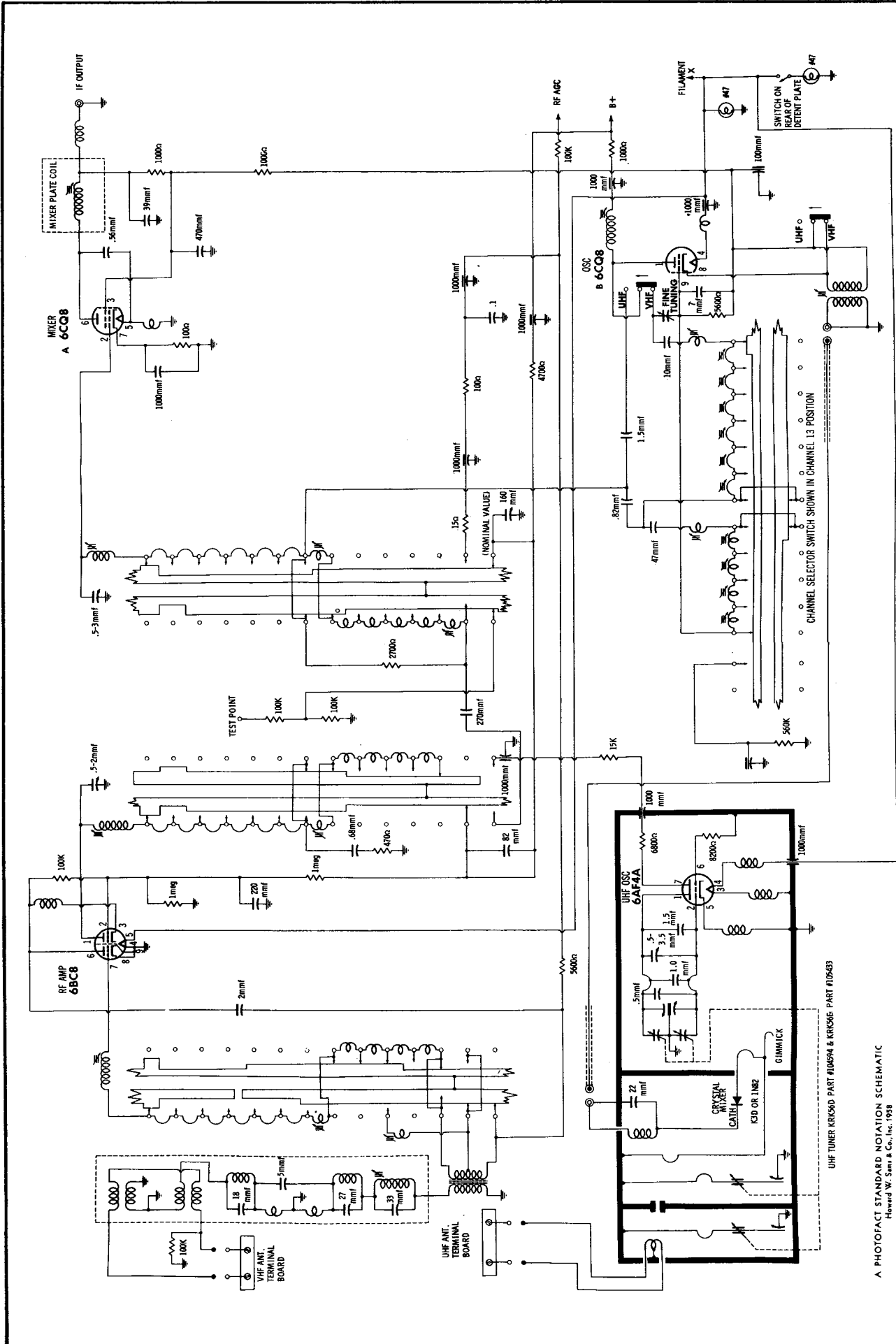
All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING		RCA Victor PART No.	NOTES	ITEM No.	RATING		RCA Victor PART No.	NOTES
	OHMS	WATT				OHMS	WATT		
R201	100K		502410		R209	2700Ω		502227	
R202	5600Ω		502256		R210	100K		502410	
R203	100K		502410		R211	100K		502410	
R204	100K		502410		R212	1000Ω		502210	
R205	1meg		502510		R213	1000Ω		502210	
R206	1meg		502510		R214	5600Ω		502256	
R207	4700Ω	3			R215	4700Ω		502247	Note 2
R208	100Ω		502110	Note 1	R216	1800Ω		502218	
					R217	120Ω		502112	

Note 1. Some versions may use 470Ω in this application (Part #502147).
 Note 2. Some versions may use 6800Ω in this application (Part #502268).

COILS (RF-IF)

ITEM No.	USE	RCA Victor PART No.	NOTES	ITEM No.	USE	RCA Victor PART No.	NOTES
L201	Ant. Matching Trans. Assy.	104936	Includes C201, C202, C203, C204 & Trap Coils	L206	Mixer Grid Coils	104940	Channel 2-13, Includes C212, R208, R210, R212, stator & wafer assy.
L202	Ant. Trans.	104937		L207	Osc. Coils	104938	Channel 2-13, Includes C219, C222, stator & wafer assy.
L203	Ant. Coils	104941	Channel 2-13, Includes C207, R202, stator & wafer assy.	L208	Mixer Plate Coil	104943	
L204	Neut. Coil	78562		L209	RF Choke	103524	1.5 Microhenries
L205	RF Coils	104939	Channel 2-13, Includes C224, R208, stator & wafer assy.				

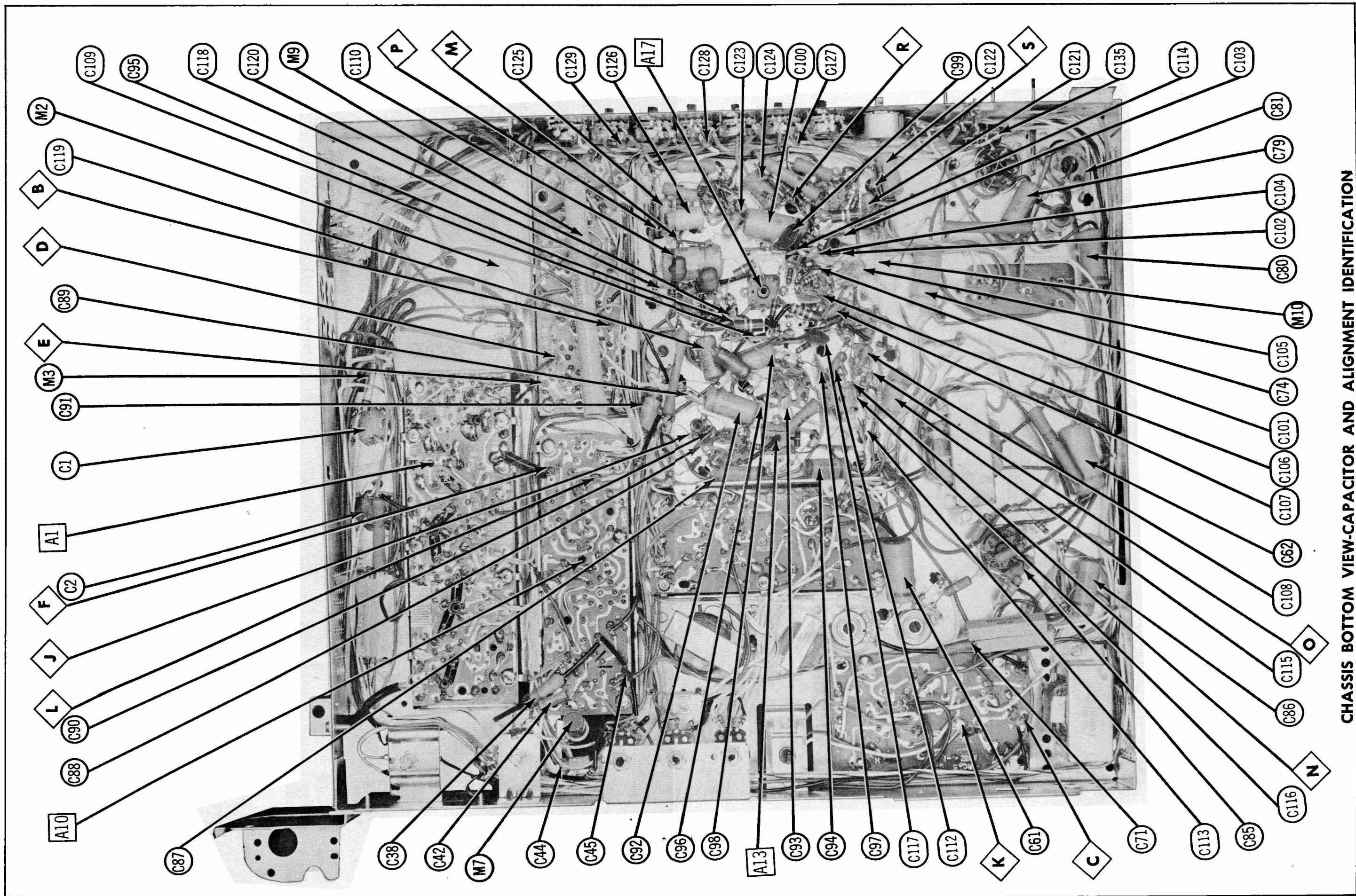


UHF-VHF TUNER #104947(KRK49A/B) SCHEMATIC

**RCA VICTOR CHASSIS
CTC7A, B, C, D, E, F**

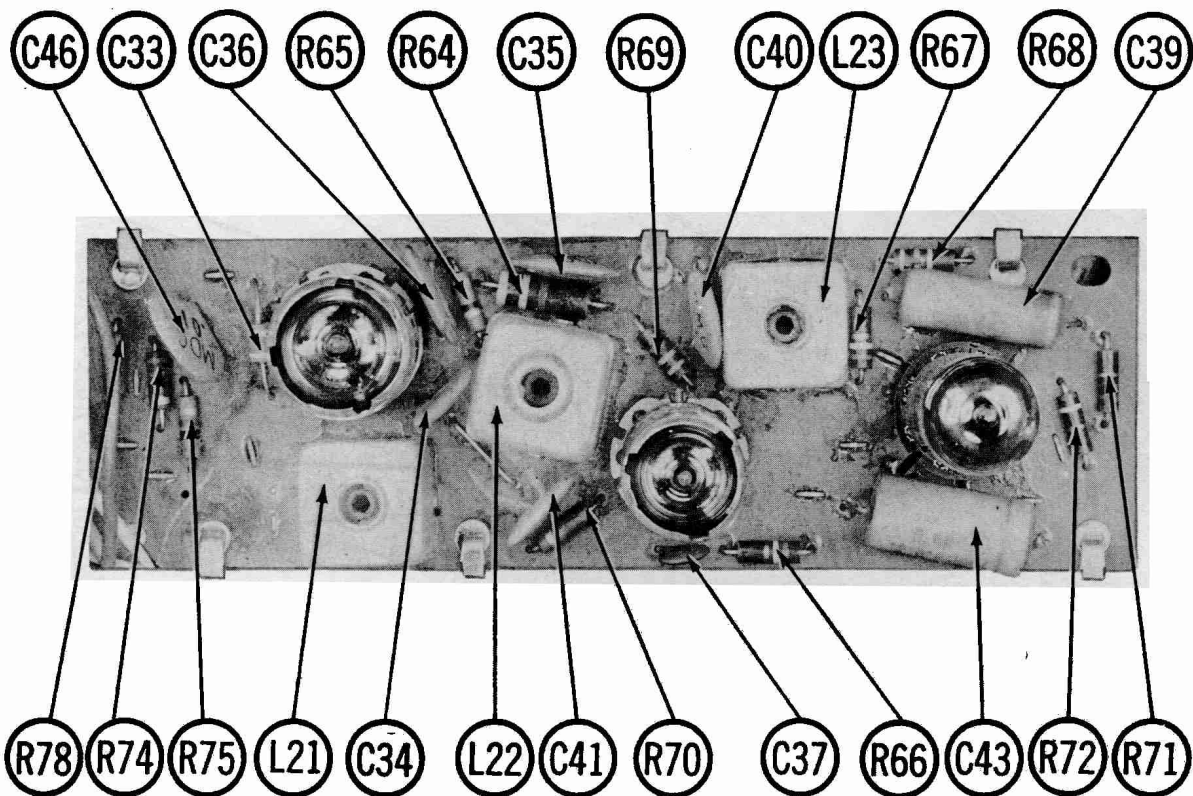
A PHOTOFAC STANDARD NOTATION SCHEMATIC
Howard W. Sams & Co., Inc. 1958

FOLDER 3

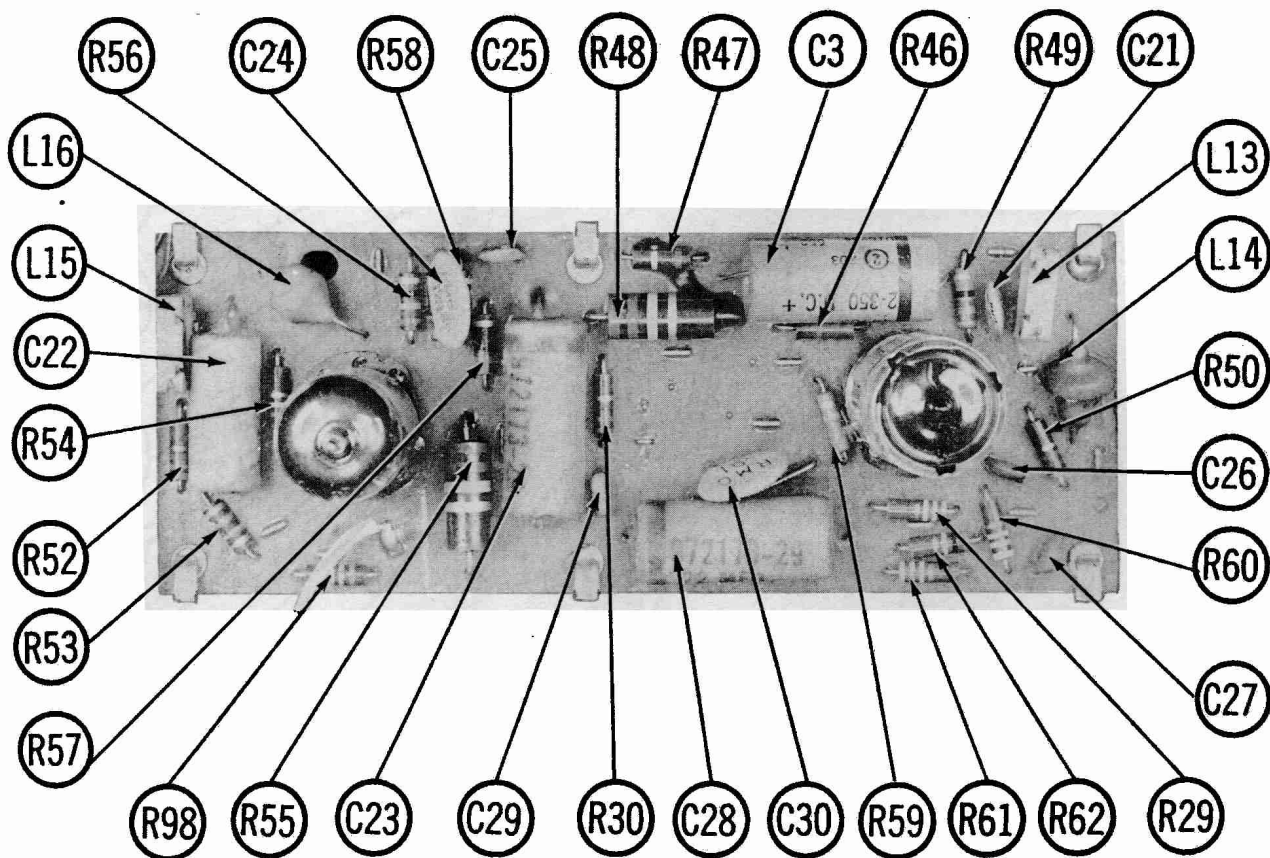


CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION

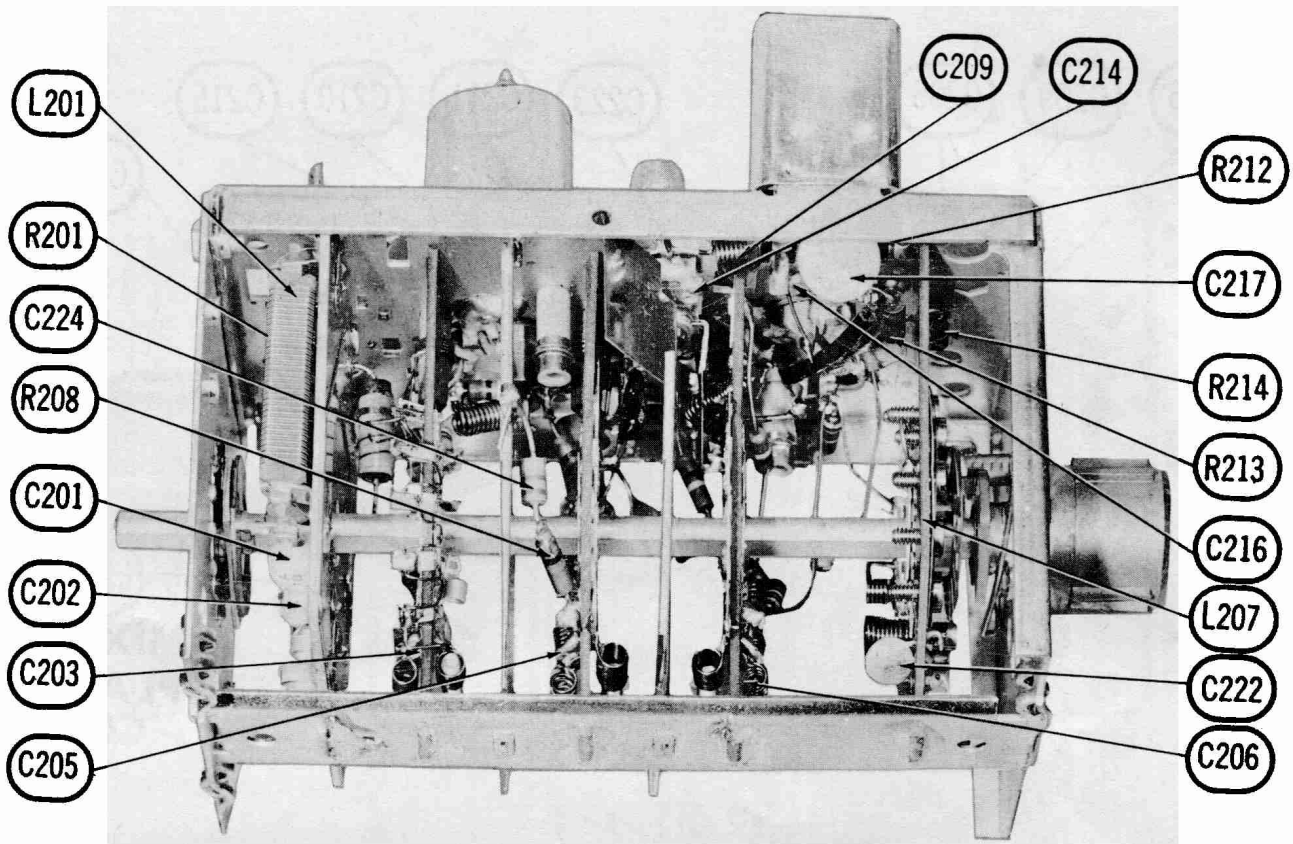
RCA VICTOR CHASSIS
C1C7A, B, C, D, E, F



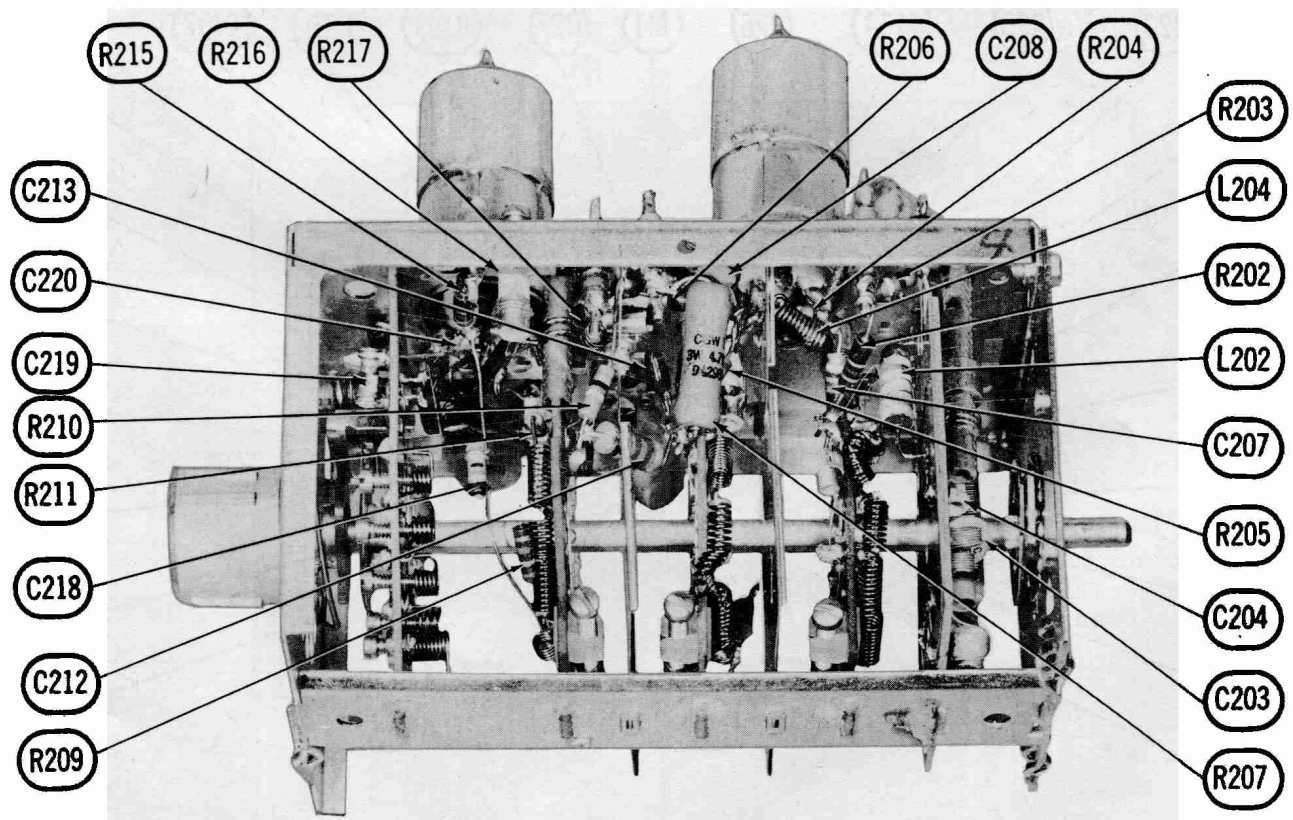
SOUND—PRINTED BOARD



VIDEO & AGC PRINTED BOARD



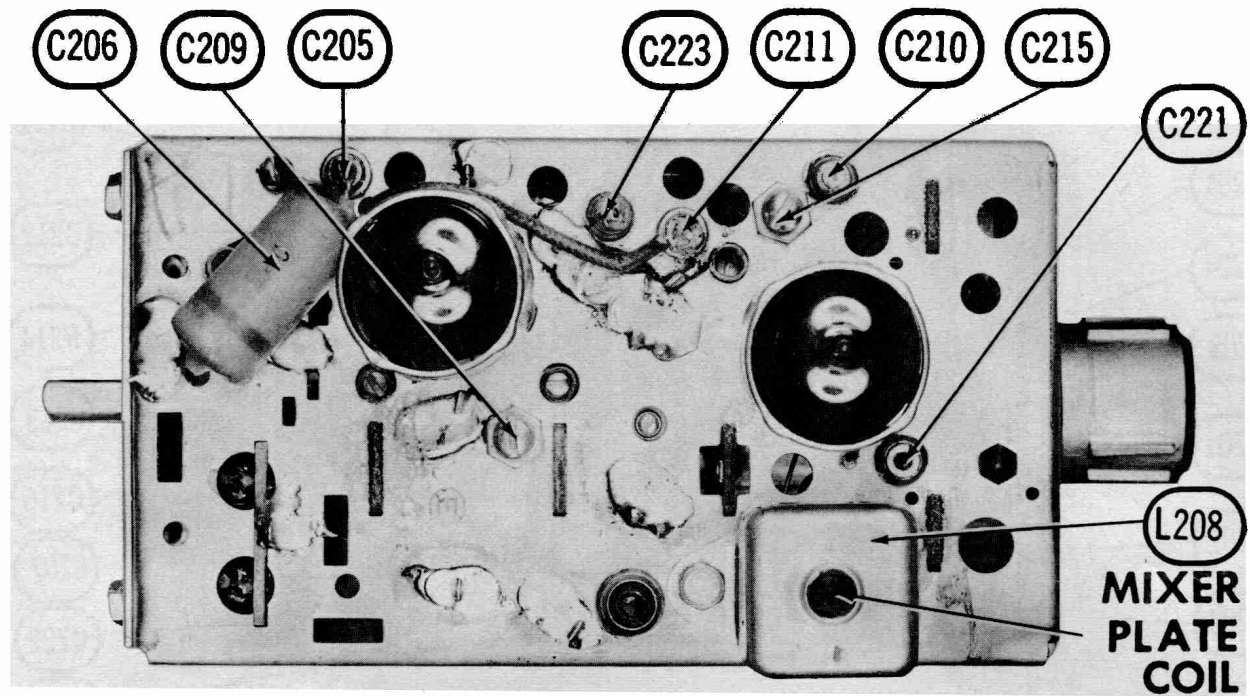
RF TUNER-LEFT SIDE



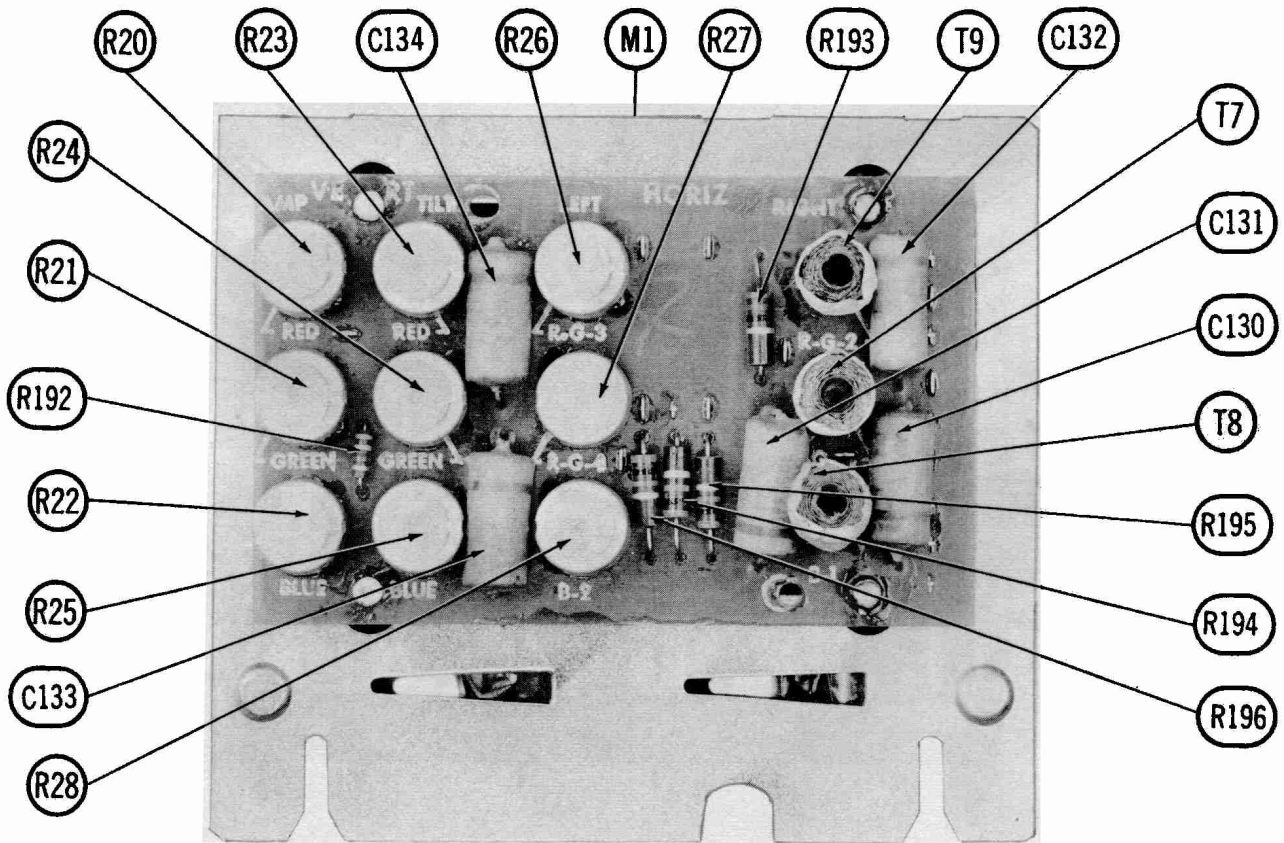
RF TUNER-RIGHT SIDE

**RCA VICTOR CHASSIS
CTC7A, B, C, D, E, F**

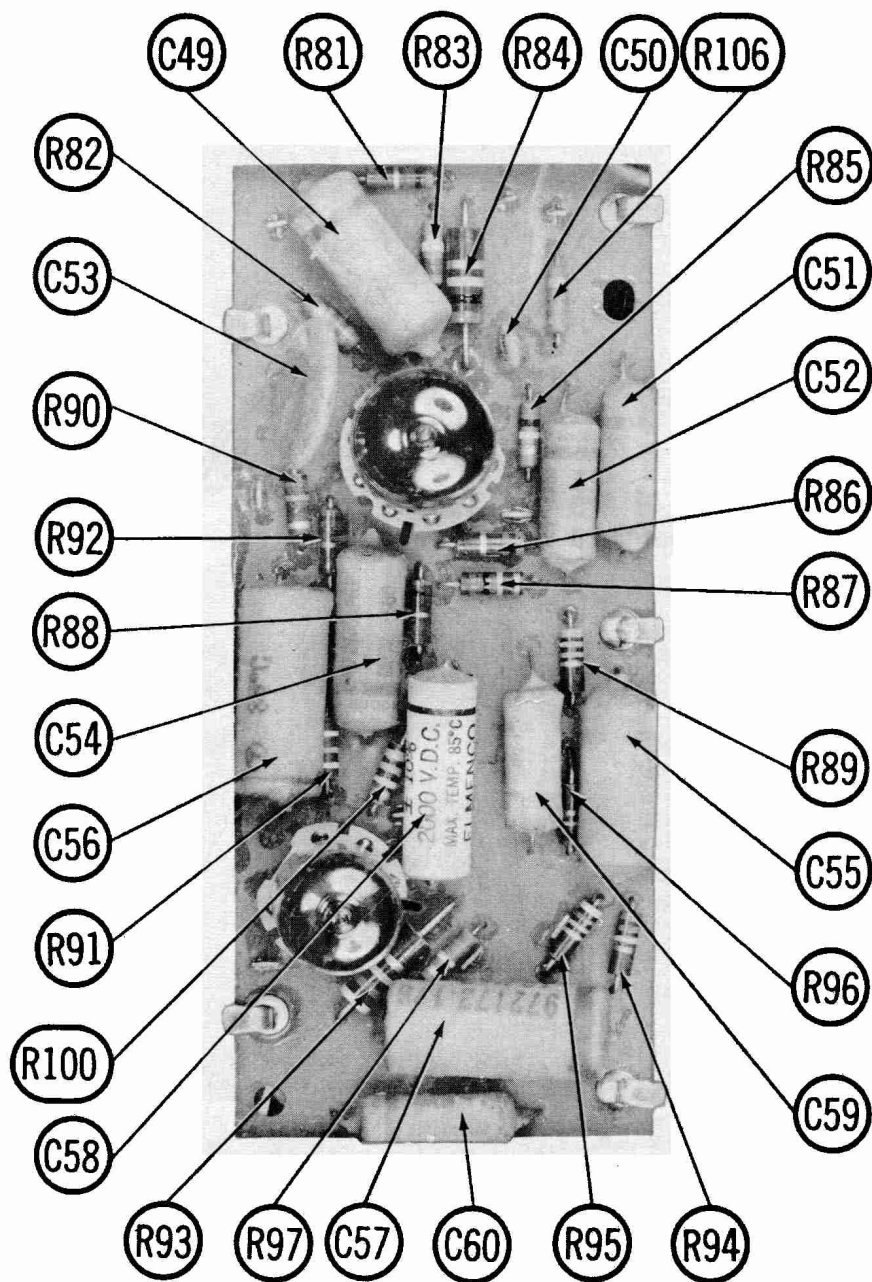
FOLDER 3



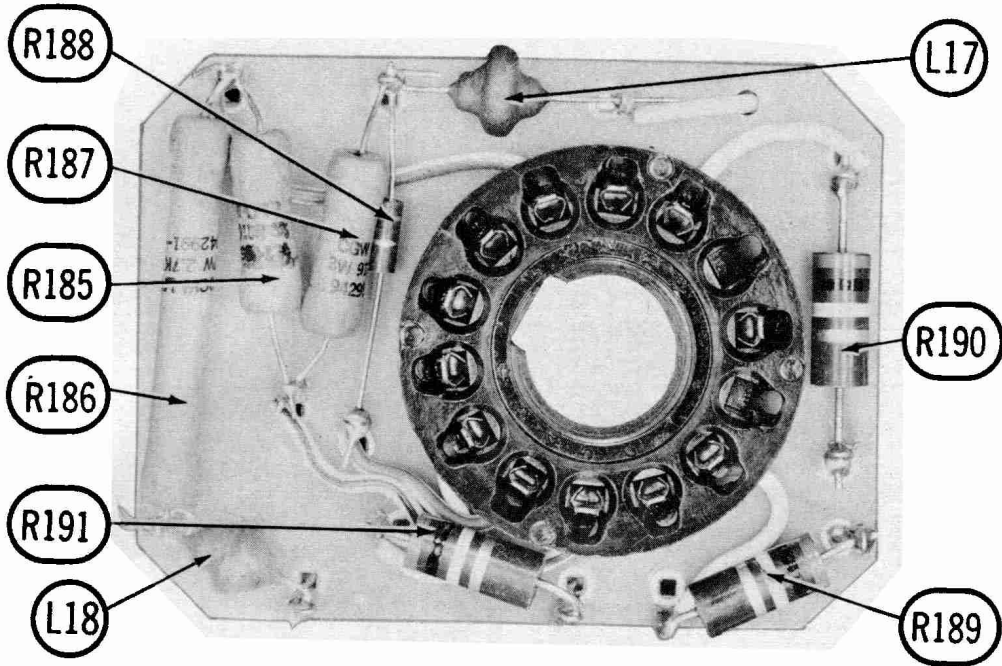
RF TUNER-TOP VIEW



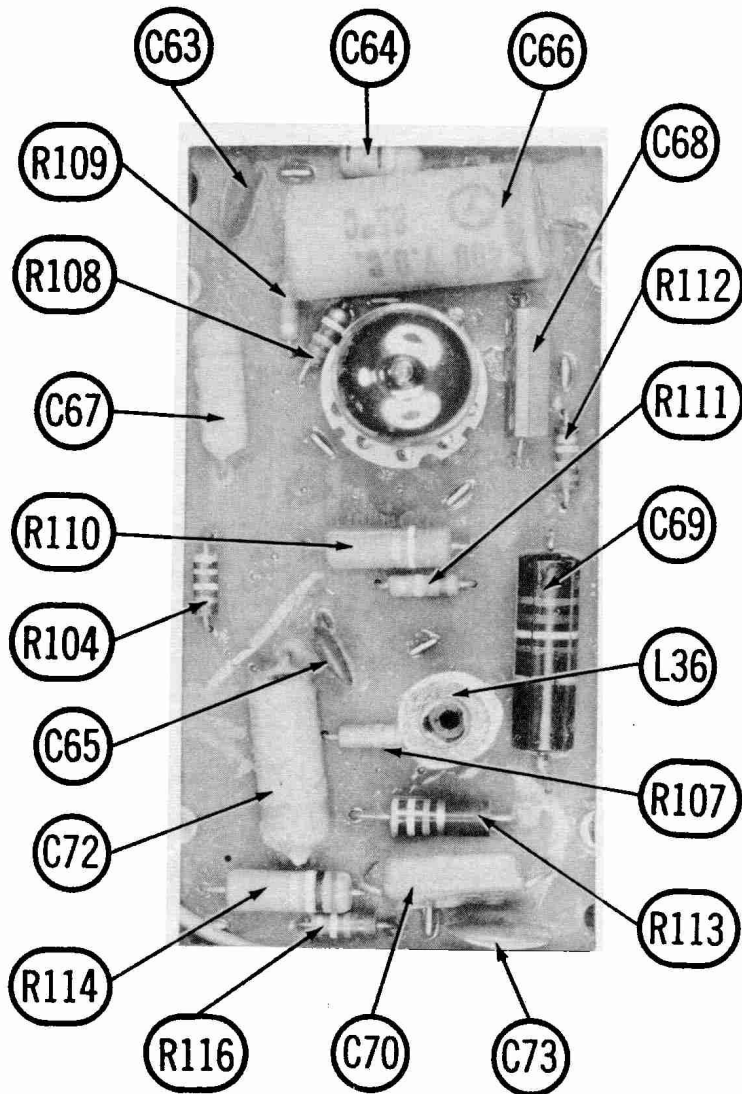
CONVERGENCE BOARD



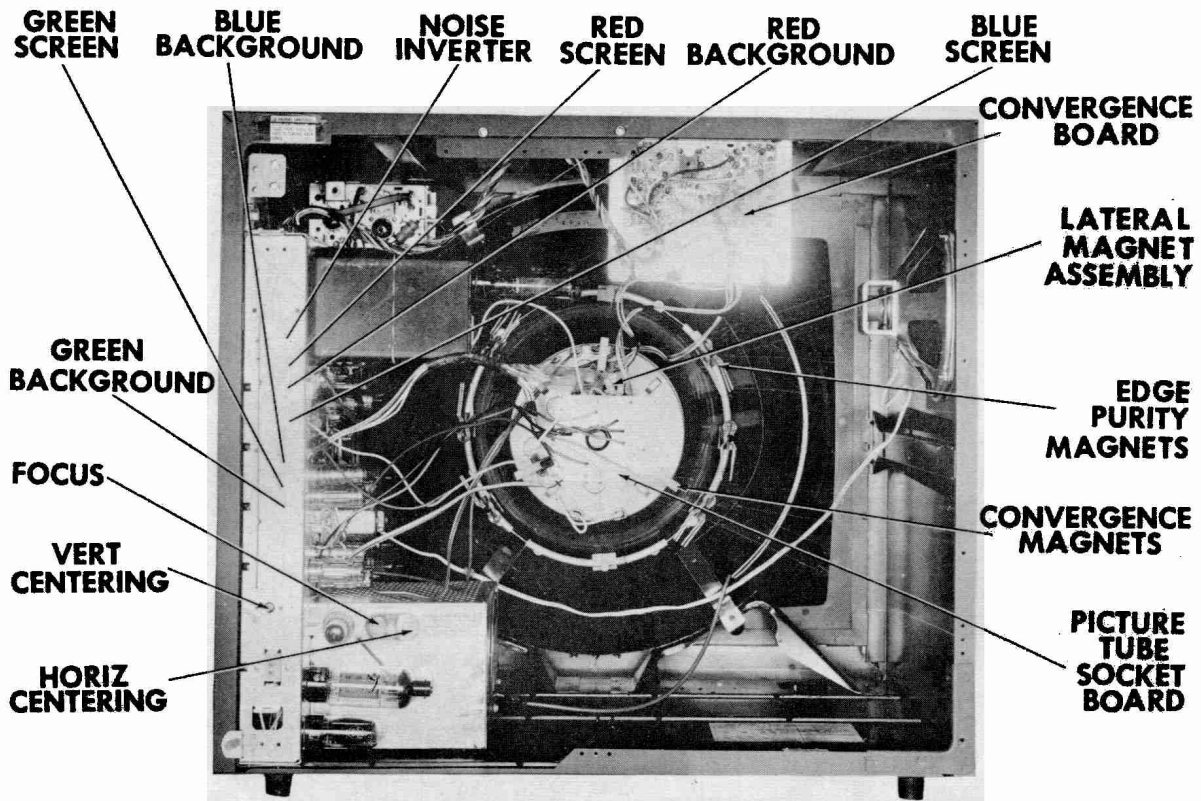
VERTICAL PRINTED BOARD



PICTURE TUBE SOCKET



HORIZONTAL PRINTED BOARD



CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 10 push-on type knobs from the side.
2. Remove 8 metal screws and 1 spring clip holding the rear cover. Remove the rear cover.
3. Remove the speaker leads, picture tube socket, yoke plug, convergence yoke plug and HV lead (inside HV compartment).
4. Loosen 2 metal screws and remove convergence board.
5. Remove 1 chassis bolt at the upper left hand corner of the

cabinet.

6. Remove 2 chassis bolts from the bottom.

7. Remove the chassis.

PICTURE TUBE SAFETY GLASS CLEANING

Remove the trim strips at the top and bottom edges of the safety glass by prying off starting at the extreme edges. Remove the 4 clips holding the safety glass. Remove the safety glass.