

IMPORTANT FILING NOTICE

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

INDEX

Remote Control Receiver Chassis CTP10A,
Transmitter CRK6A . . . SET 673, FOLDER 2-A

RCA VICTOR CHASSIS
CTC15AA/AB/AE/AF/C/D/E/R/T/U



MODEL 14F617MU

TRADE NAME	RCA Victor Models	Chassis	Remote Chassis	Transmitter Chassis
	14F612MV/MU, 14F615MV/MU, 14F616MV/MU, 14F617MV/MU	CTC15C/D		
	14G655RV, 14G656RV, 14G736RV, 14G754RV, 14G768RV, 14G769RV, 14G845RV, 14G846RV	CTC15R	CTP10A	CRK6A
	14F615RV, 14F616RV	CTC15T	CTP10A	CRK6A
	14G655MV/MU, 14G656MV/MU, 14G657MV/MU, 14G738MV/MU, 14G748MV/MU, 14G754MV/MU, 14G760MV/MU, 14G768MV/MU, 14G769MV/MU, 14G795MV/MU, 14G796MV/MU, 14G805MV/MU, 14G806MV/MU, 14G835MV/MU, 14G836MV/MU, 14G845MV/MU, 14G846MV/MU	CTC15AE/AF		
	14G797MV	CTC15AE		
	14G875MV/MU, 14G876MV/MU, 14G884MV/MU, 14G896MV/MU, 14G900MV/MU, 14G908MV/MU	CTC15AA/AB		
	14G912MV/RV	CTC15E/U		

Some Models using UHF Tuner KRK112 are identified by letter "X" following the Model number.

MANUFACTURER: Radio Corporation of America, RCA Victor Home Instrument Div. Indianapolis, Indiana
 TYPE SET: Color Television Receiver with Remote Control Receiver used in Some Versions
 TUBES: VHF: Twenty-Six, UHF: Twenty-Seven
 POWER SUPPLY: 110-120 Volts AC, 60 Cycles
 TUNING RANGE: Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)
 RATING: 315 Watts, 3.1 Amp. @ 117 Volts AC

MISC ADJUSTMENT..... PAGE 7
BLOCK DIAGRAM..... PAGE 22

SERVICING IN THE FIELD

SAFETY GLASS

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

FUSE OR FUSE DEVICE

A 1½" #26 fuse wire is used for filament protection. (For location, see M1 in photo "Chassis - Bottom View".)

A Circuit Breaker is used for low voltage power supply protection, and may be reset by depressing the reset button. (See "Tube Placement Chart" for location.)

VHF OSCILLATOR ADJUSTMENT

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

AGC

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

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

Coarse adjustment of the horizontal hold is accomplished by the proper setting of the Horiz. Osc. Coll (waveform slug B1). (See "Tube Placement Chart" for location.)

HORIZONTAL LINEARITY

The linearity may be varied by a Horizontal Efficiency Coll. (See "Tube Placement Chart" for location.)

FOCUS

The focus may be varied by means of a Focus Coil. (See "Tube Placement Chart" for location.)

CENTERING

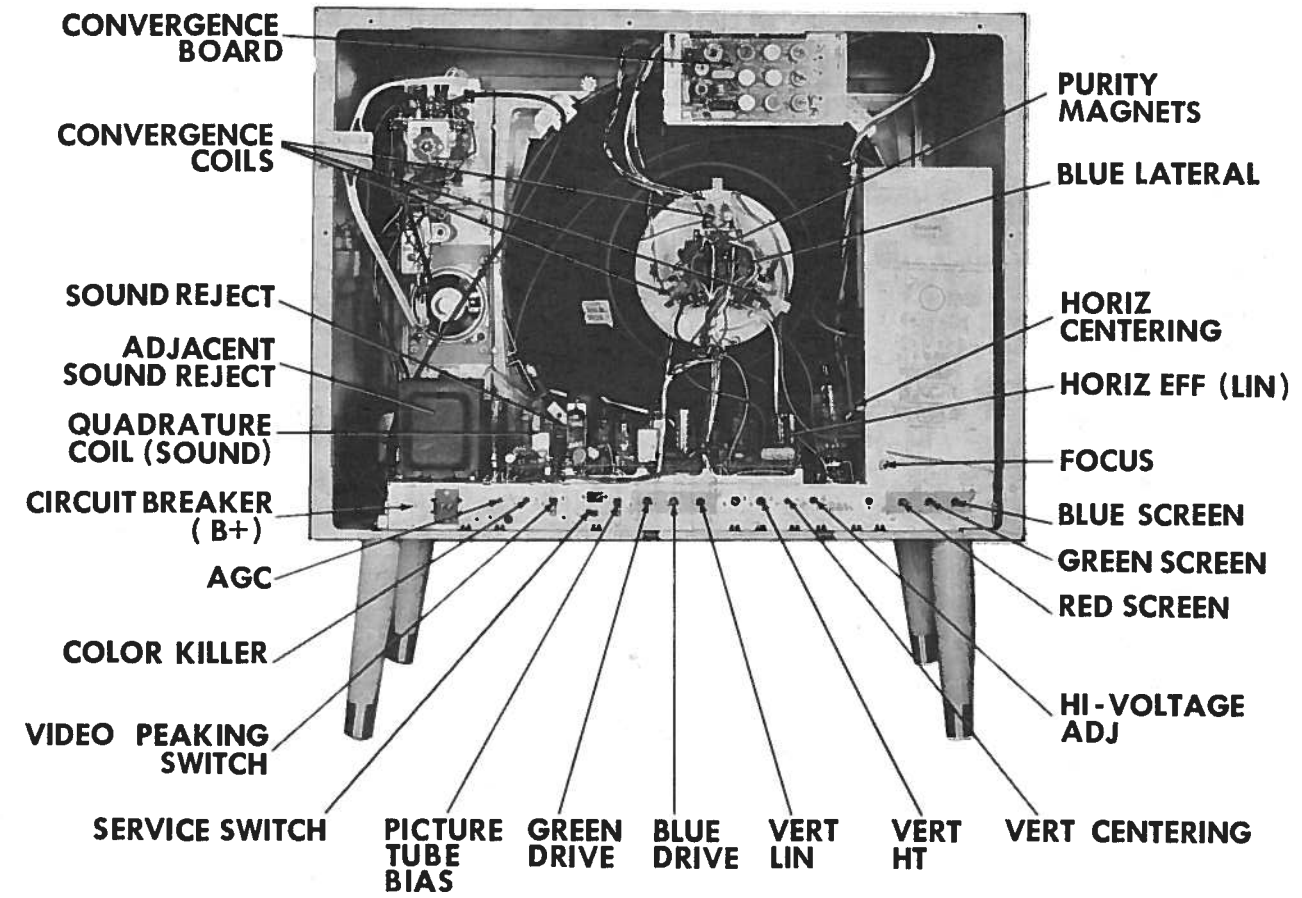
Horizontal and Vertical centering is accomplished by 2 controls located at rear of chassis.

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

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. MB374

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DATE 1-64 SET 673 FOLDER 2



CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

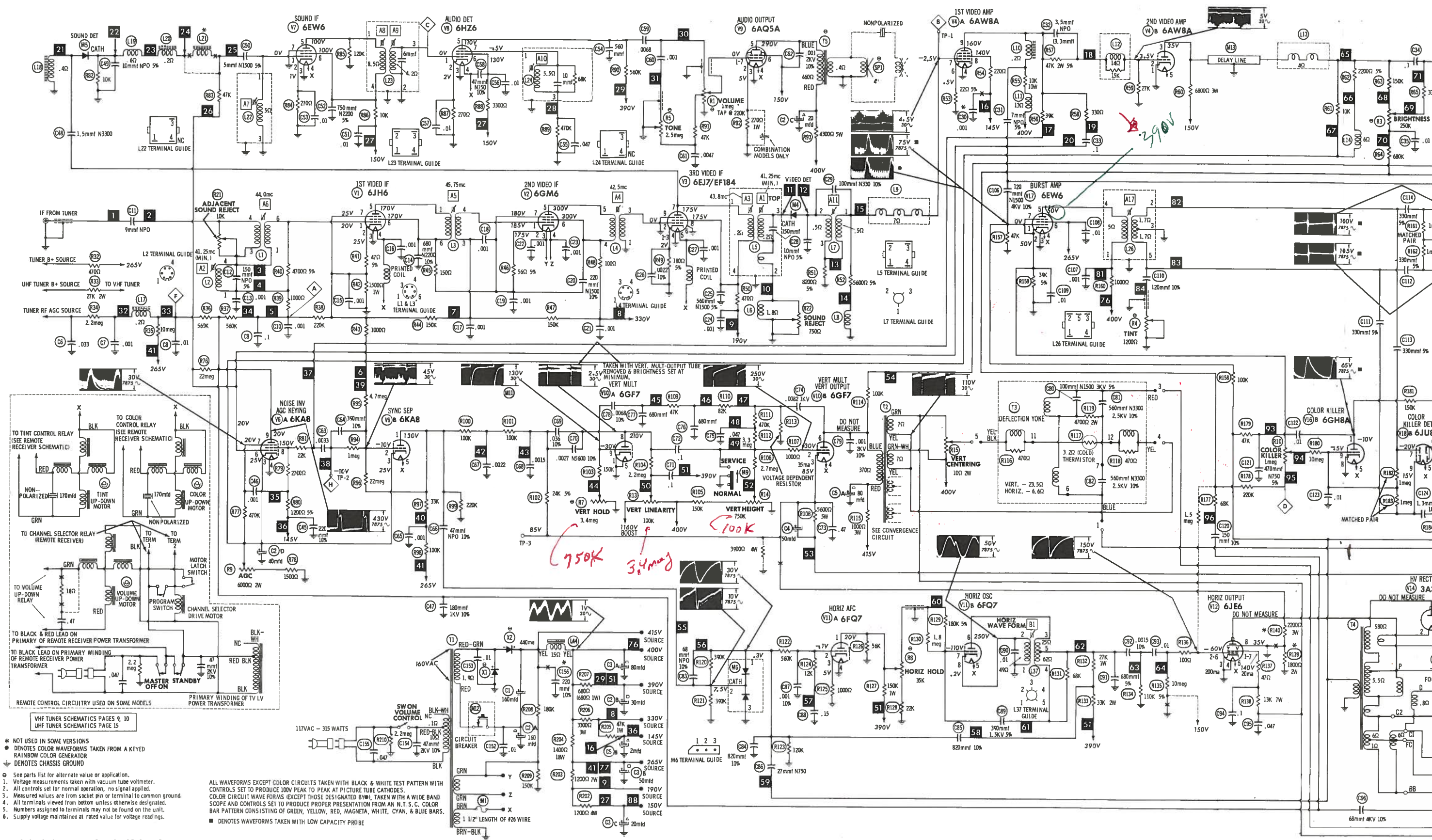
CHASSIS REMOVAL

1. Remove all knobs and cabinet back held by 5 screws. Loosen antenna bracket and 4 screws holding tuners and control assemblies.
2. Loosen convergence assembly held by 1 screw. Unplug picture tube socket, high voltage lead, yoke leads, convergence panel plug, and speaker leads.
3. Remove 4 chassis bolts. Lift tuner from screws and remove chassis and tuner assembly.

PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" instructions.
2. Place cabinet face down on a soft protective surface. Remove blue lateral magnet, purity ring magnet assembly, and convergence magnet assembly from picture tube neck.
3. Loosen yoke clamp and remove yoke. Remove picture tube shield held by 4 bolts at each corner.
4. Remove 8 bolts from picture tube mounting brackets. Use brackets as handles and lift picture tube out and place on soft protective surface.

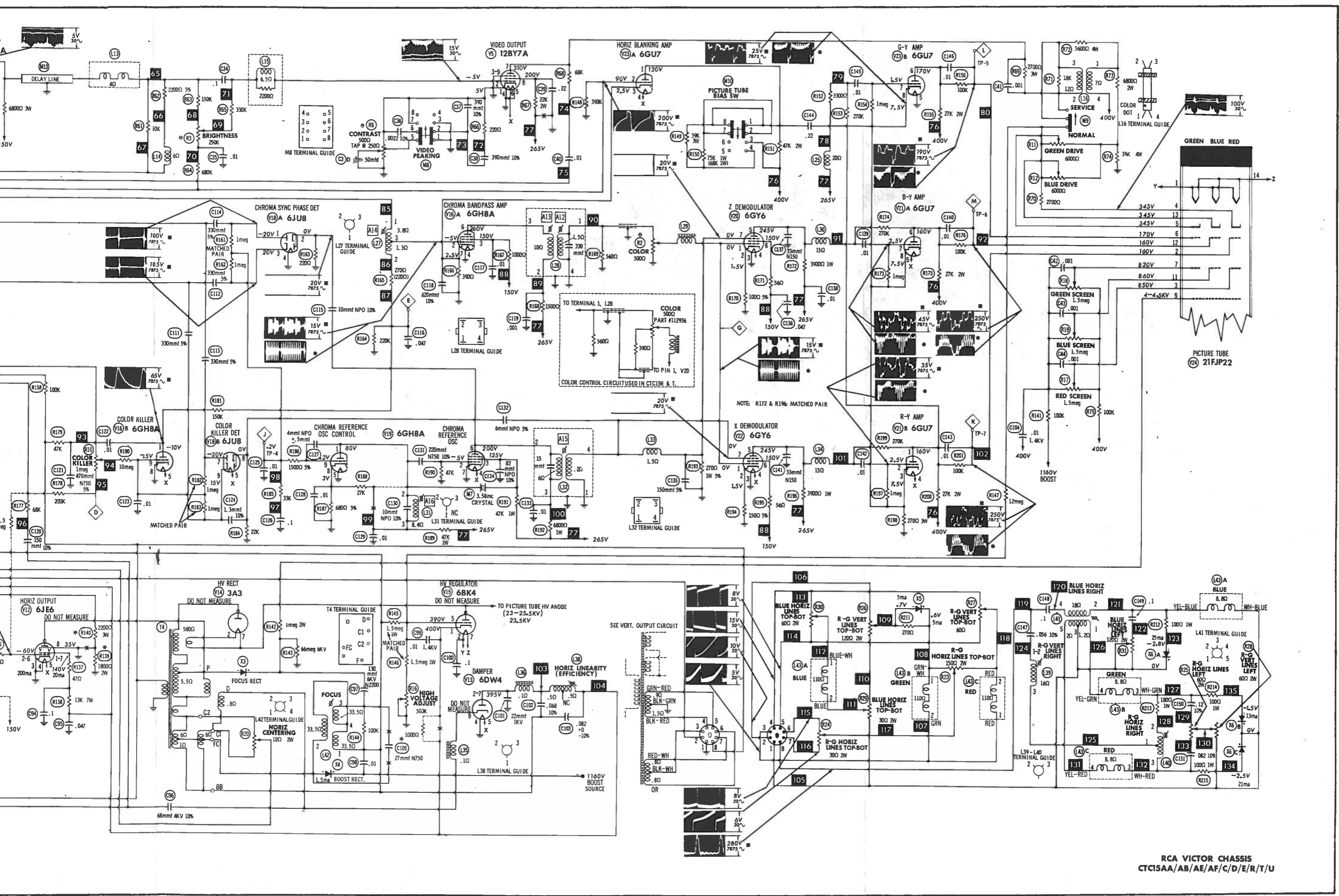
RCA VICTOR CHASSIS
CTC15AA/AB/AE/AF/C/D/E/R/T/U



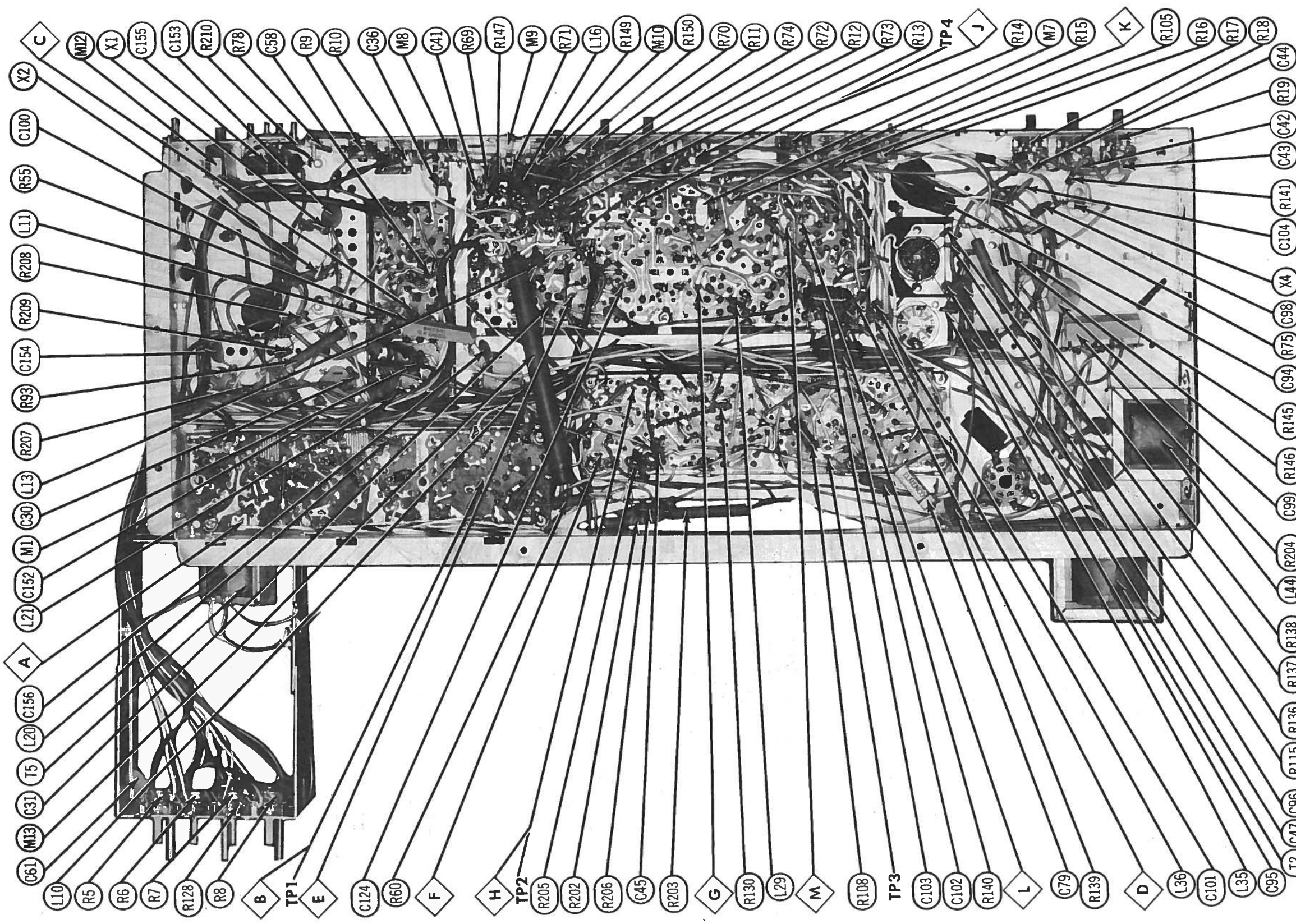
- * NOT USED IN SOME VERSIONS
- DENOTES COLOR WAVEFORMS TAKEN FROM A KEYS RAINBOW COLOR GENERATOR
- ⊕ DENOTES CHASSIS GROUND
- ⊙ See parts list for alternate value or application.
- 1. Voltage measurements taken with vacuum tube voltmeter.
- 2. All controls set for normal operation, no signal applied.
- 3. Measured values are from socket pin or terminal to common ground.
- 4. All terminals viewed from bottom unless otherwise designated.
- 5. Numbers assigned to terminals may not be found on the unit.
- 6. Supply voltage maintained at rated value for voltage readings.

ALL WAVEFORMS EXCEPT COLOR CIRCUITS TAKEN WITH BLACK & WHITE TEST PATTERN WITH CONTROLS SET TO PRODUCE 100V PEAK TO PEAK AT PICTURE TUBE CATHODES.
 COLOR CIRCUIT WAVEFORMS EXCEPT THOSE DESIGNATED BY Ⓜ TAKEN WITH A WIDE BAND SCOPE AND CONTROLS SET TO PRODUCE PROPER PRESENTATION FROM AN N. T. S. C. COLOR BAR PATTERN CONSISTING OF GREEN, YELLOW, RED, MAGNETA, WHITE, CYAN, & BLUE BARS.

■ DENOTES WAVEFORMS TAKEN WITH LOW CAPACITY PRO BE



RCA VICTOR CHASSIS
CTCISAA/AB/AE/AF/C/D/E/R/T/U

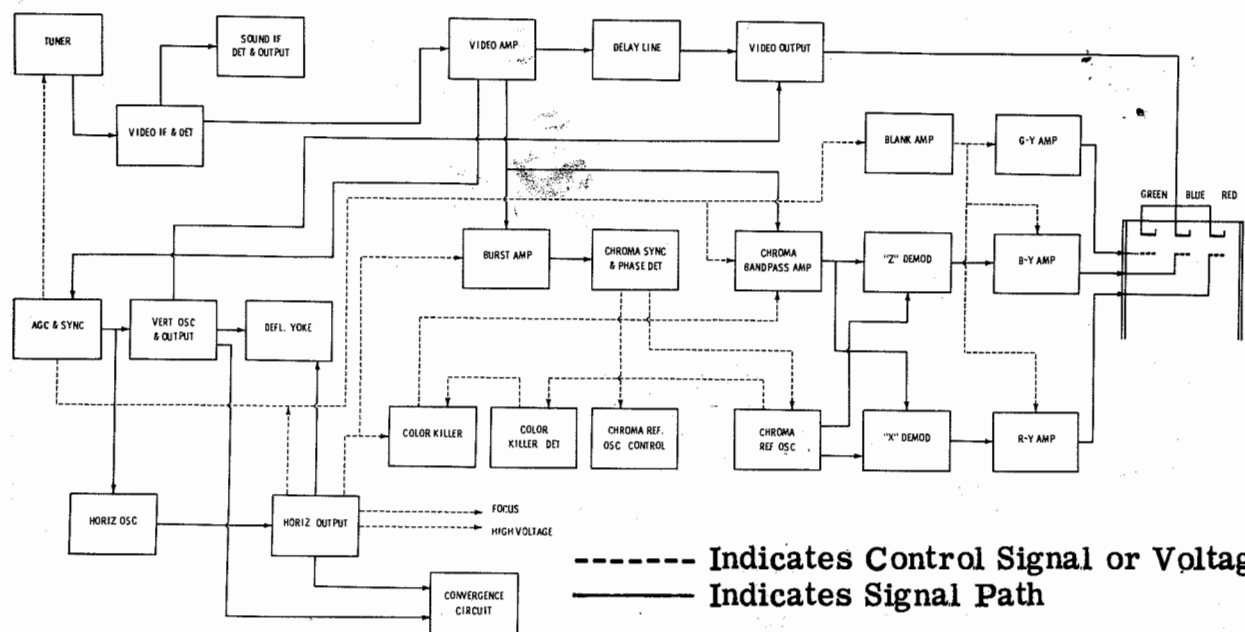
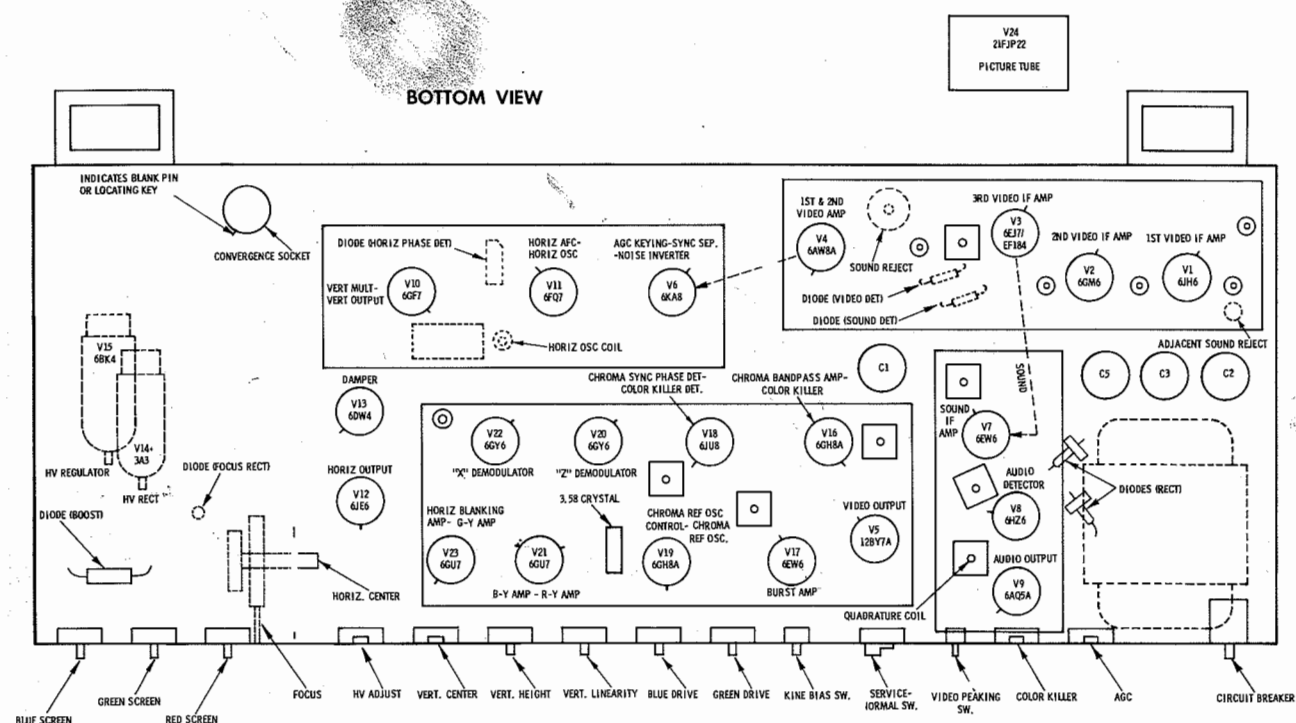


TP1 -2.5V VIDEO DET OUTPUT TP2 -9V SYNC INPUT TP3 85V VERT OUTPUT CATH TP4 -2V CHROMA REF OSC CONTROL GRID

CHASSIS-BOTTOM VIEW

RCA VICTOR
CHASSIS CT15AA/AB/AE/AF/C/D/E/R/T/U

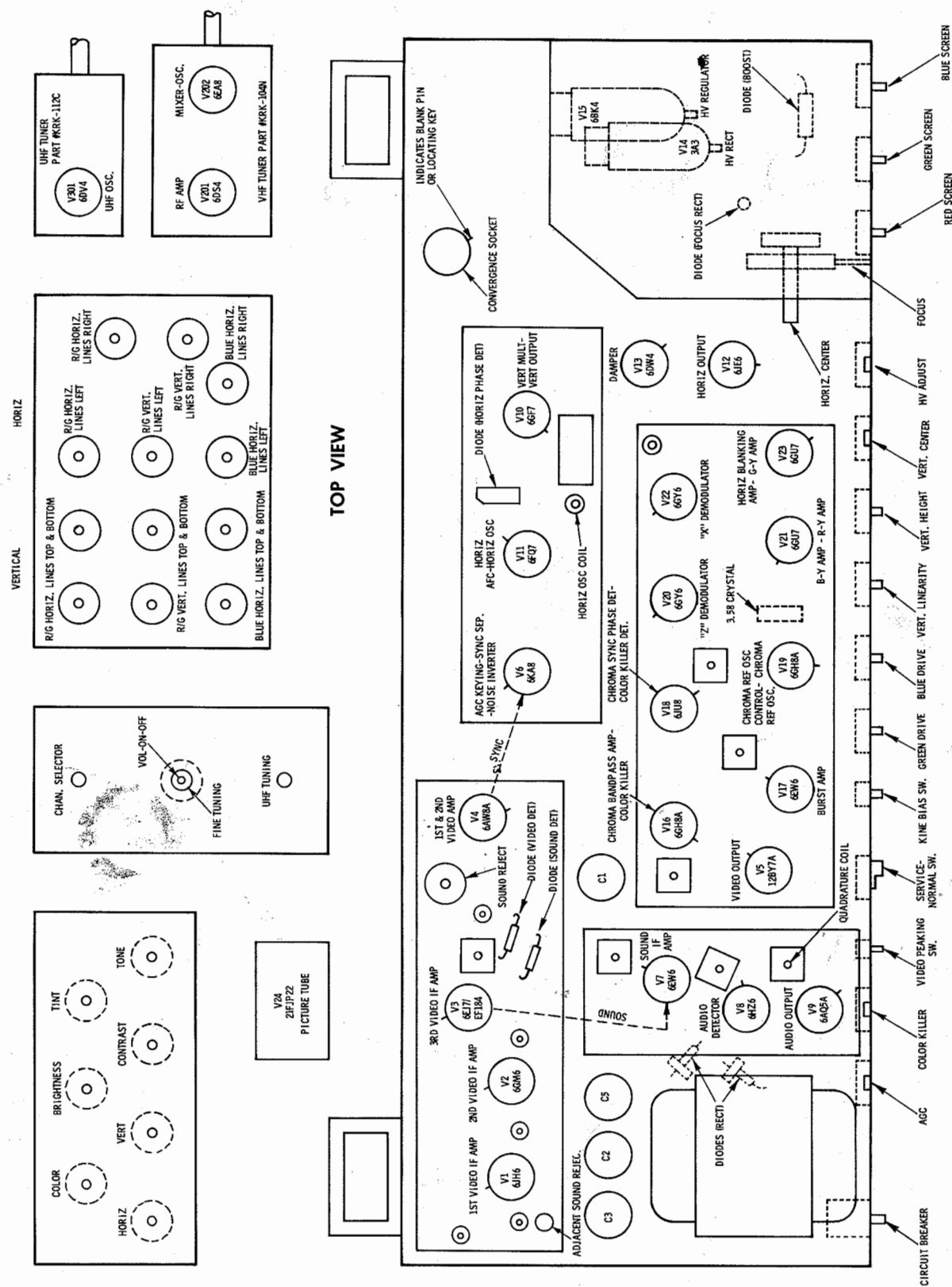
TUBE PLACEMENT CHART



----- Indicates Control Signal or Voltage Path
 ————— Indicates Signal Path

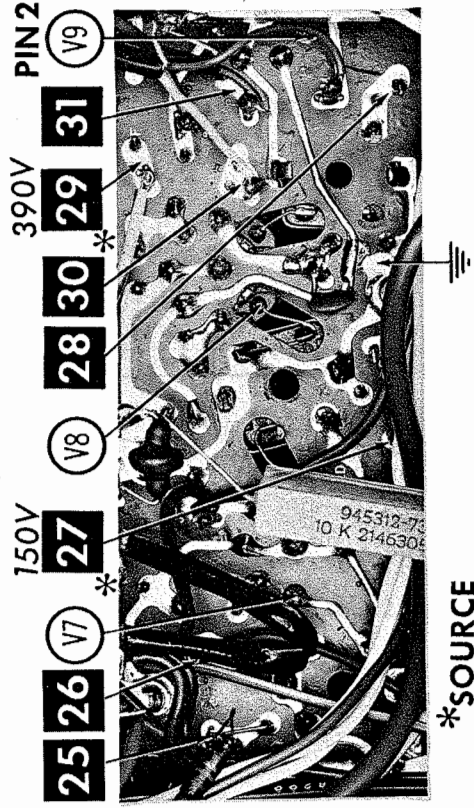
BLOCK DIAGRAM

TUBE PLACEMENT CHART

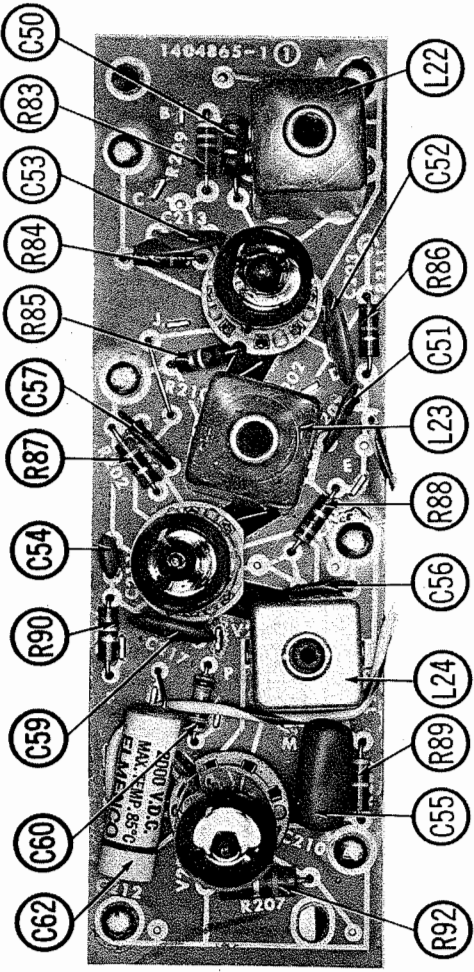


RCA VICTOR CHASSIS
 CT15AA/AB/AE/AF/CD/DE/R/T/U

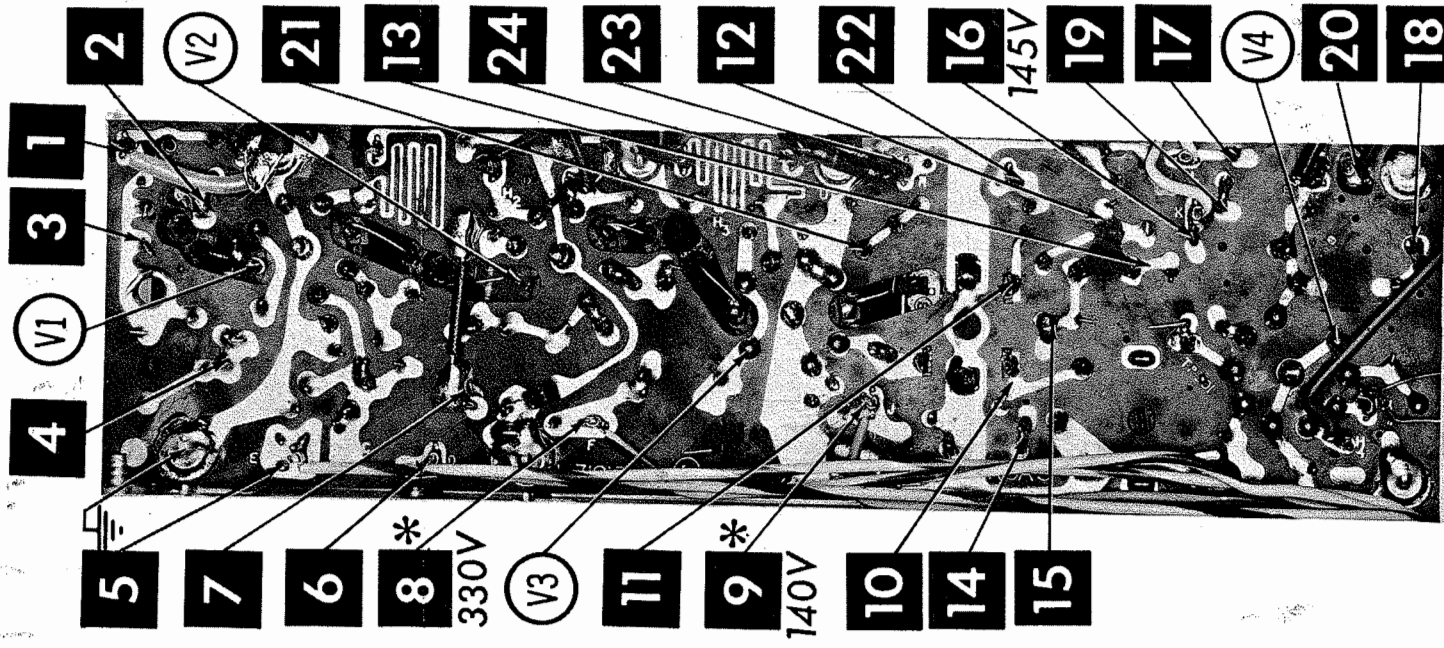
FOLDER 2



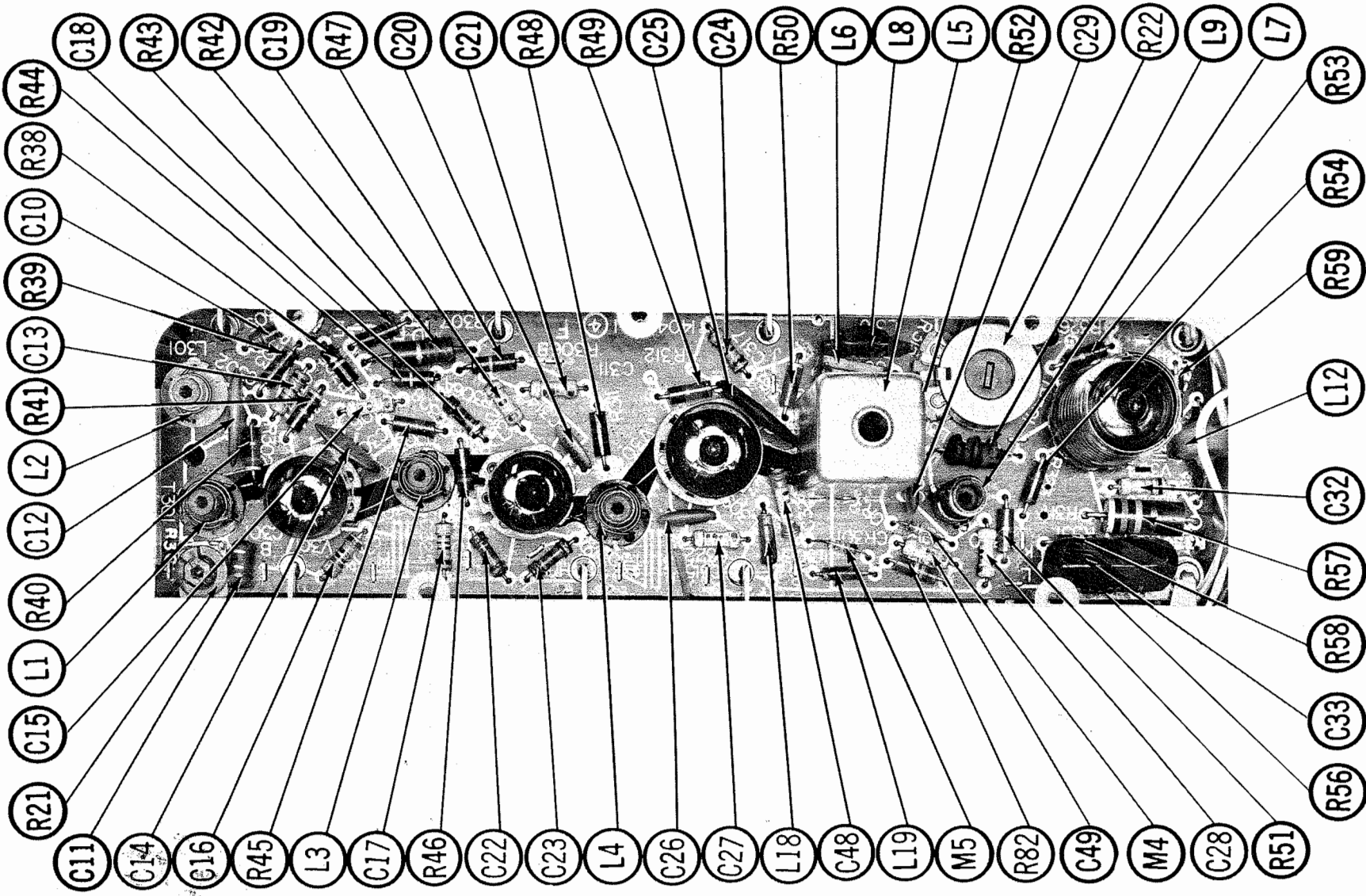
*SOURCE



SOUND PRINTED BOARD

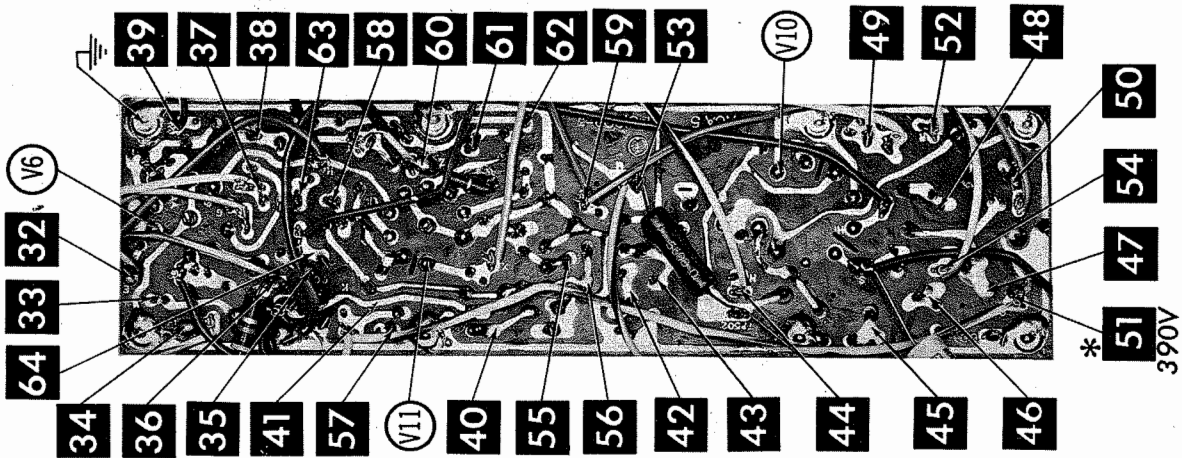
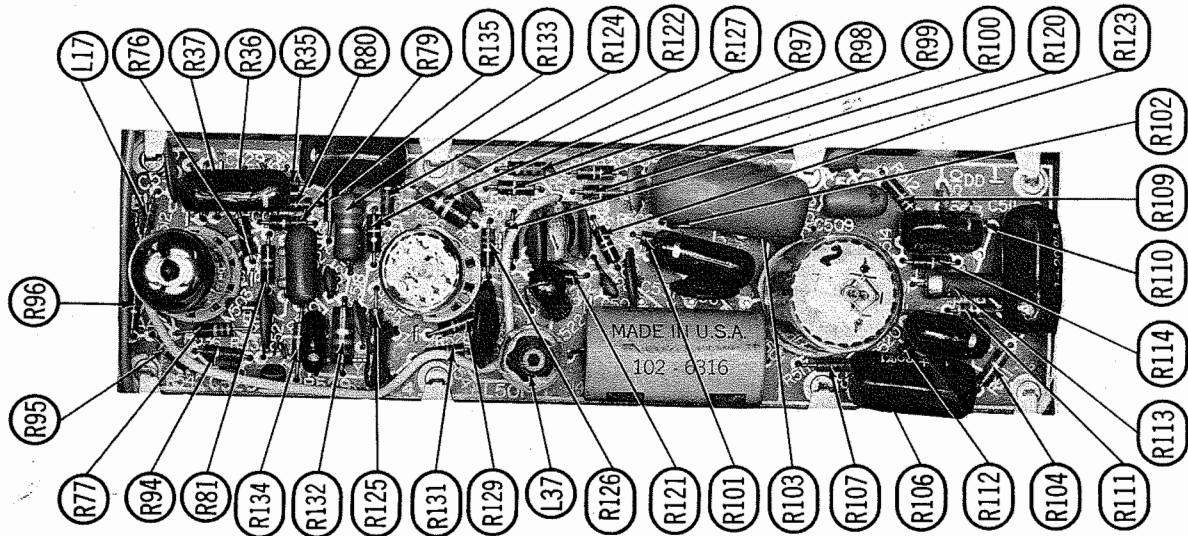
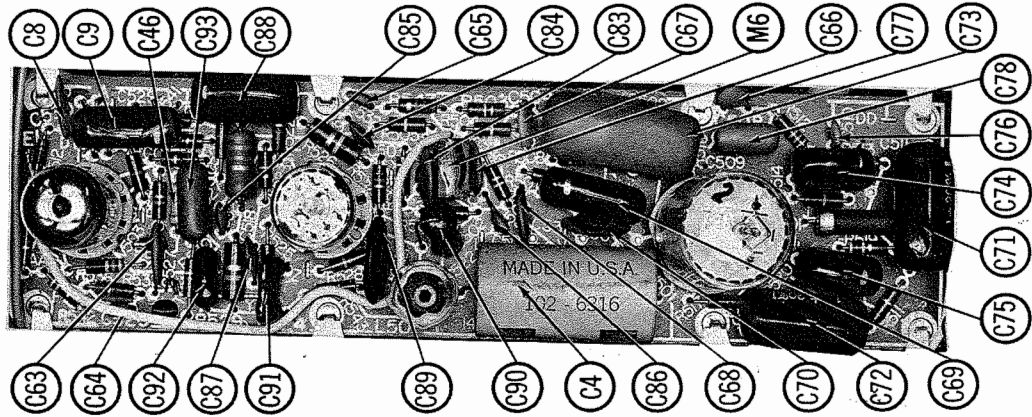


*SOURCE



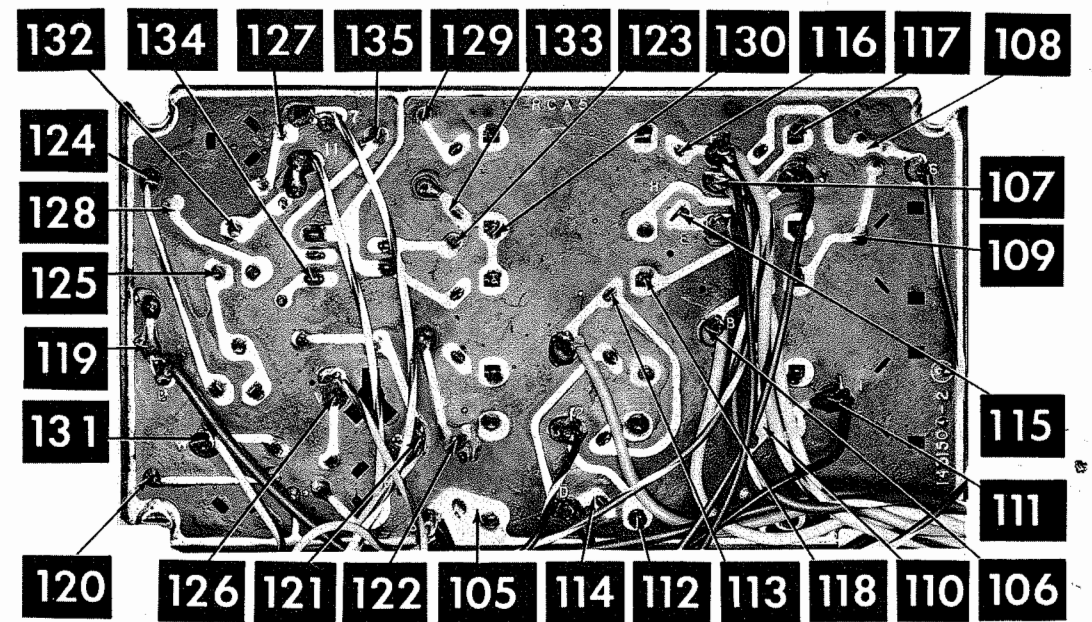
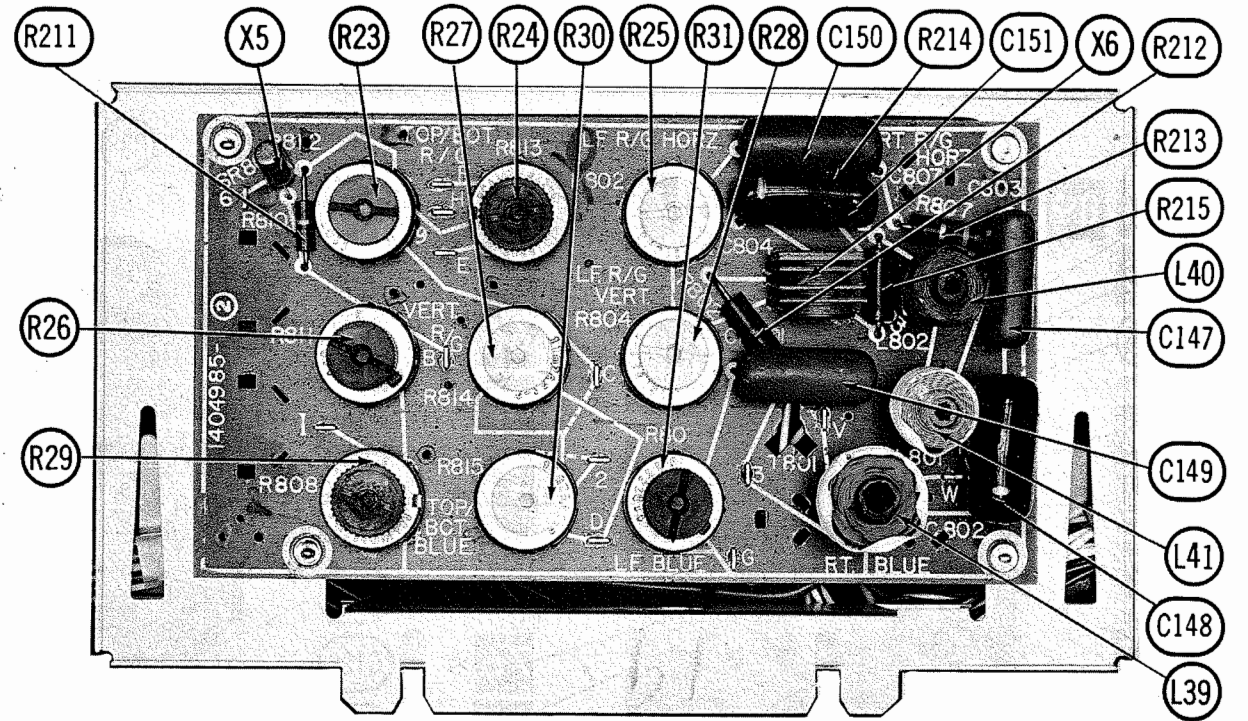
VIDEO IF PRINTED BOARD

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



VERT, HORIZ, SWEEP PRINTED BOARD

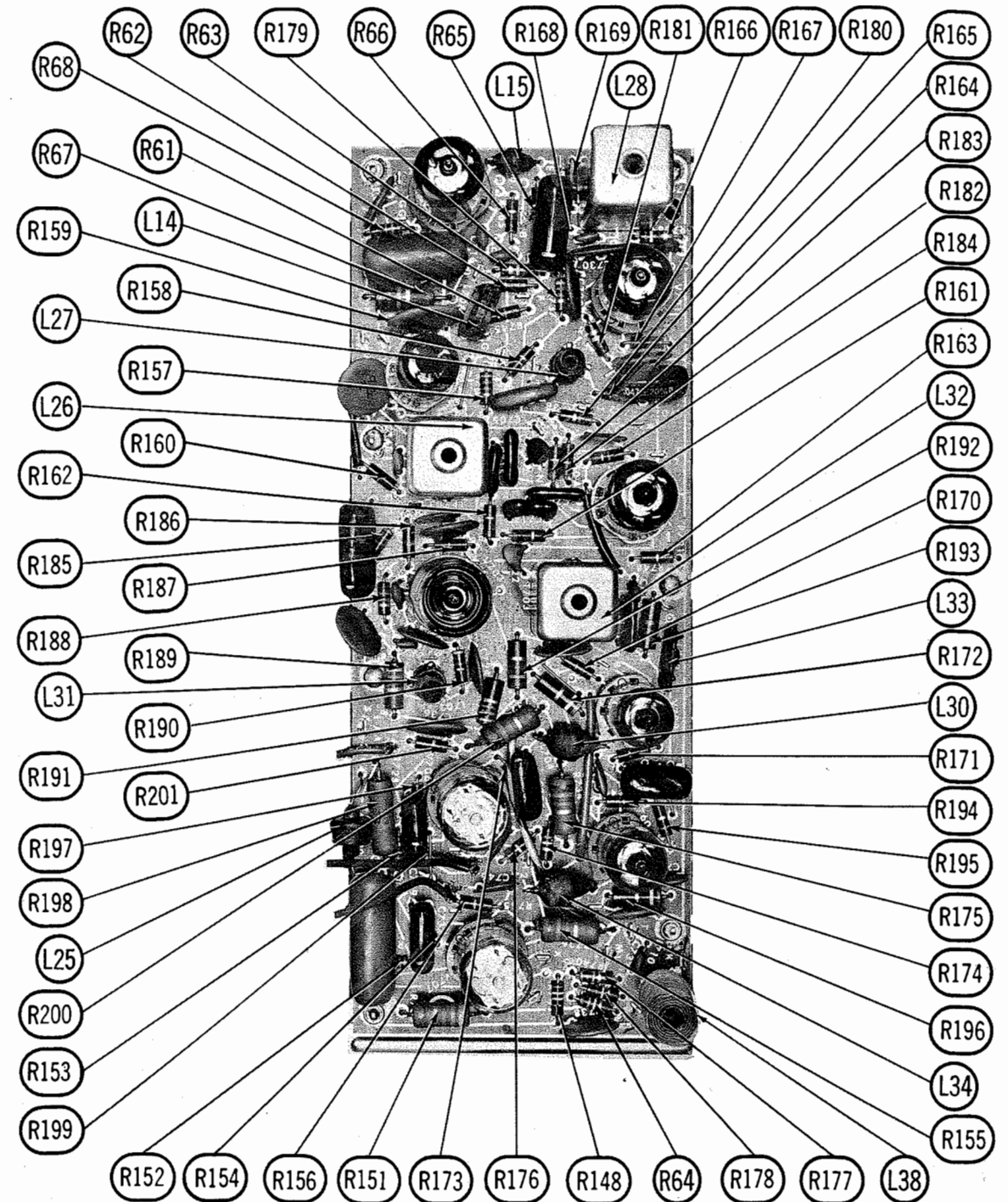
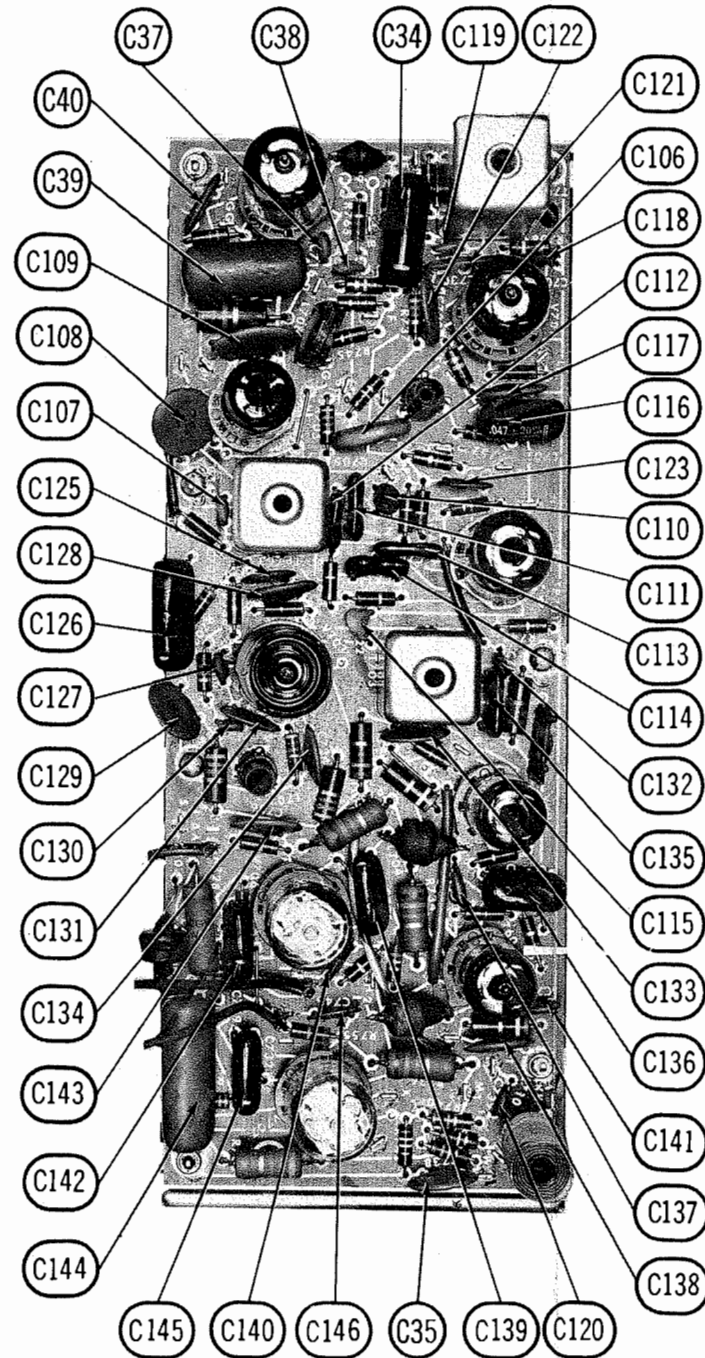
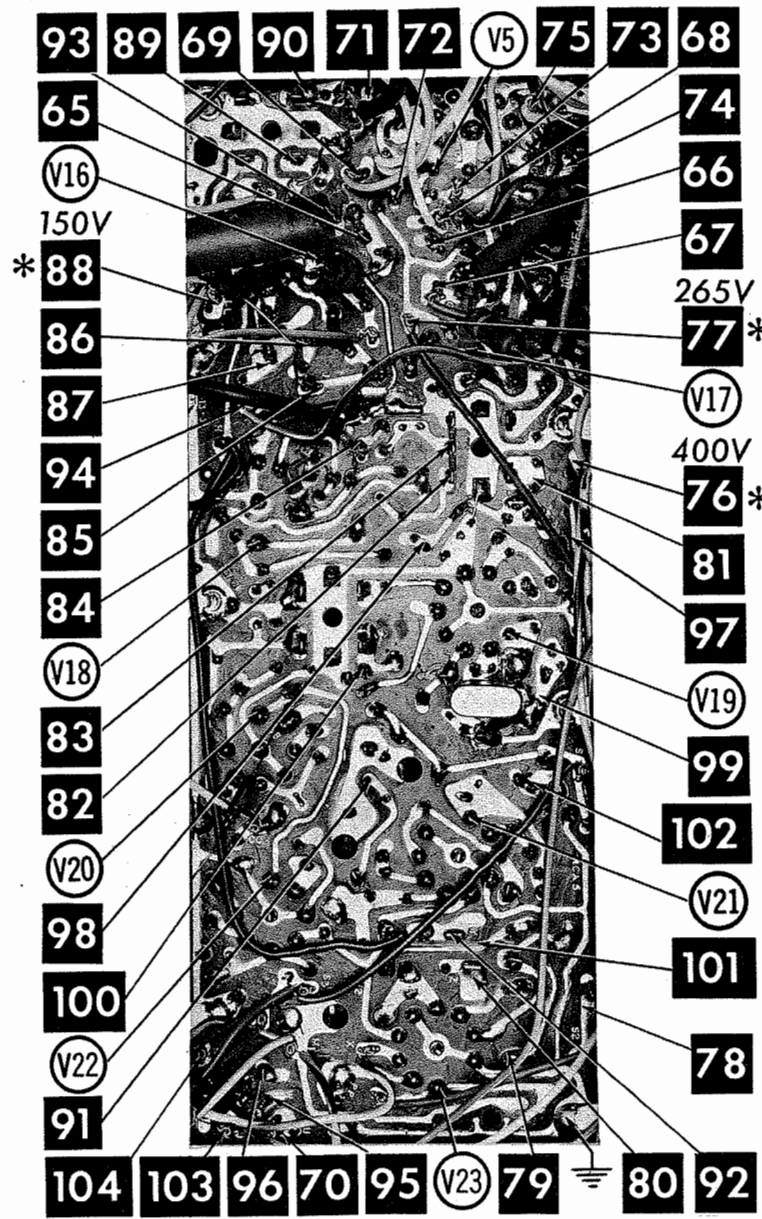
A Howard W. Sams CIRCUITRACE® Photo



A Howard W. Sams CIRCUITRACE® Photo

CONVERGENCE PRINTED BOARD

RCA VICTOR CHASSIS CT15AA/AB/AE/AF/C/D/E/R/T/U



PRINTED BOARD (COLOR CIRCUIT)

RCA VICTOR
CHASSIS CTC15AA/AB/AE/AF/C/D/E/R/T/U

FOLDER 2

RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14
V1	6JH6	220K	1450Ω	FIL	FIL	● 216Ω	● 216Ω	1400Ω							
V2	6GM6	75K	1NF	FIL	FIL	† 3400Ω	† 3400Ω	● 56Ω							
V3	6EJ7/EF184	180Ω	0Ω	180Ω	FIL	FIL	0Ω	† 3100Ω	3100Ω	0Ω					
V4	6AW8A	0Ω	# 22K	† 7500Ω	FIL	FIL	22Ω	● 1000Ω	† 32K	† 10K					
V5	12BY7A	320Ω	650K	0Ω	FIL	FIL	FIL	† 6500Ω	† 23K	0Ω					
V6	6KA8	† 60K	4meg	3000Ω	FIL	FIL	55K	470K	† 30K	† 700K					
V7	6EW6	5Ω	270Ω	FIL	FIL	† 14K	† 14K	0Ω							
V8	6HZ6	4.5Ω	270Ω	FIL	FIL	† 560K	† 7100Ω	470K							
V9	6AQ5A	60K	270Ω	FIL	FIL	† 4700Ω	† 3800Ω	NC							
V10	6GF7	0Ω	2.7meg	2100Ω	FIL	FIL	† 1370Ω	NC	† 3.2meg	280K					
V11	6FQ7	# † 20K	670K	1000Ω	FIL	FIL	† 60K	215K	45Ω	0Ω					
V12	6JE6	† 13K	9.5meg	0Ω	FIL	FIL	9.5meg	† 13K	1600Ω	NC					TOP CAP † 6.9Ω
V13	6DW4	NC	† 26Ω	NC	FIL	FIL	NC	† 26Ω	NC	2.9meg					
V14	3A3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE													TOP CAP † 582Ω
V15	6BK4	† 22Ω	FIL	NC	NC	† 1.5meg	NC	FIL	NC						TOP CAP INF
V16	6GH8A	370K	220K	† 4800Ω	FIL	FIL	† 2900Ω	390Ω	0Ω	11meg					
V17	6EW6	32K	38K	FIL	FIL	† 1000Ω	† 1400Ω	38K							
V18	6JU8	▲ 1meg	220Ω	▲ 1meg	FIL	FIL	0Ω	12meg	22K	12meg					
V19	6GH8A	† 20K	47K	† 48K	FIL	FIL	† 8600Ω	0Ω	680Ω	INF					
V20	6GY6	135Ω	100Ω	FIL	FIL	† 5300Ω	† 3900Ω	2.2Ω							
V21	6GU7	† 22K	1meg	270Ω	FIL	FIL	† 22K	1meg	270Ω	0Ω					
V22	6GY6	135Ω	150Ω	FIL	FIL	† 5300Ω	† 3900Ω	.6Ω							
V23	6GU7	† 47K	260K	390Ω	FIL	FIL	† 22K	1meg	270Ω	0Ω					
V24	21FJP22	FIL	127K	■ 420K	† 6400Ω	† 4500Ω	† 127K	■ 420K	NC	† 70meg	NC	■ 420K	† 127K	† 4500Ω	FIL
V201	6DS4	NC	† 17K	NC	3.4meg	NC	NC	NC	0Ω	NC	FIL	NC	FIL		
V202	6EA8	† 11K	100K	† 121K	FIL	FIL	† 122K	0Ω	121K	† 126K					
V301	6DV4	† 30K	† 30K	NC	5600Ω	NC	5600Ω	18K	NC	NC	FIL	NC	FIL		
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9	Pin 10	Pin 11	Pin 12	Pin 13	Pin 14

- # THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
 ● READING DEPENDS ON POLARITY OF METER CONNECTIONS.
 † MEASURED FROM PIN 9 OF V13.
 ▲ MEASURED FROM PIN 9 OF V19.
 ● MEASURED FROM PIN 2 OF V2.
- MEASURED FROM CATHODE OF X4.
 † MEASURED FROM OUTPUT OF X2.
 • VHF TUNER KRK104N AND UHF TUNER KRK112C.
 NC NO CONNECTION

MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect:
 A 0-500MA meter in series with cathode lead of horizontal output tube.
 A .47mfd capacitor across meter.
 A 0-1500 microammeter in series with the cathode lead of the HV regulator tube.
 A VTVM thru a high voltage probe to picture tube anode connector.
 Point Ⓢ to ground.
 A short across horizontal oscillator cathode coil (pin 8 to ground).
 Tune in a TV station and set all controls for normal operation.
 Adjust the Horizontal Hold control until the picture "floats" with the blanking bars vertical. Remove the short from the Horizontal Oscillator Cathode and adjust B1 until the picture "floats" horizontally. Remove the short from point Ⓢ. Adjust the Horizontal Linearity Coil for MINIMUM current in the horizontal output tube (should not exceed 210MA).

Adjust the High Voltage control for 23KV on picture tube anode with normal brightness. Check the High Voltage Regulator current. The current should not be less than 850 microamperes. If current is less than 850 microamperes, turn the Horizontal Linearity slug one-half turn clockwise. Check to see that horizontal output current does not exceed 210MA. If foldover occurs in picture, adjust Horizontal Linearity clockwise to eliminate foldover while checking to make sure horizontal output current does not exceed 210MA.
 Adjust Focus, Height and Vertical Linearity controls.

AGC ADJUSTMENT

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

COLOR AFC ALIGNMENT

Set the Killer Threshold control to fully counterclockwise. Set the Tint control to the center of its range.
 Connect a color bar generator to the antenna terminals. Adjust receiver for normal color reception. Short pin 1 of Burst Amp. (V17) to ground.

Connect DC probe of VTVM thru 470K to pin 1 of Phase Detector (V19). Adjust A15 for maximum deflection on VTVM. If no reading is obtained, oscillator is not operating. Adjust A16 to start oscillator, then adjust A15 for maximum. Remove the short from pin 1 of Burst Amp. Adjust A17 for maximum deflection on VTVM. Make sure the oscillator is running and locked in.

Short point Ⓢ to ground. Remove VTVM. Adjust A16 until color bars stand still or drift slowly. Remove the short from point Ⓢ and check to see that the color bars will "sync" with a low level input signal. If necessary, retouch A16 for best hold.

Connect the Vertical Input of a Scope to point Ⓢ. Check for proper waveform with the color bar generator being used. See waveform on schematic for pattern obtained from a standard NTSC signal. Check the range of the Tint control. The bars should move 30° either side of proper signal. If necessary, retouch A17 for proper range of control.

Check for proper waveform at G-Y, and B-Y outputs (points Ⓢ and Ⓢ). Tune in a weak signal, or reduce the signal at the antenna terminals to obtain a snowy picture. Adjust the Killer Threshold control to eliminate the color in the snow. Check with a color signal to make sure the killer is not eliminating picture coloring.

PURITY ADJUSTMENTS

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

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

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

GRAY SCALE ADJUSTMENTS

Tune in a black and white picture or a color picture with the Color control set to MINIMUM. Switch the Kine bias switch to the "Up" position. Turn the red, blue and green screen controls fully counterclockwise. Move the "Normal-Service" switch to "Service". Advance the screen controls one at a time until each produces a barely visible line on the screen.

If one or more controls fail to produce a line, change the Kine bias switch to the center or possibly "Down" position and begin again. Return the Normal-Service switch to "Normal". Adjust the blue and green drive controls to eliminate coloring in the dark and bright areas of the picture.

CONVERGENCE ADJUSTMENTS

- | Step | Control | Use to Converge (or straighten) | Remarks |
|------|-----------------------------------|--|---|
| 1. | | | Perform center dot convergence using convergence magnets. If more range is needed, reverse magnet holder in clip. See Fig. A. |
| 2. | R-G Vert. Lines, Top and Bottom | Red and Green vertical bars at top and bottom of screen. | Touch up both controls for best convergence from top to bottom along vertical centerline (Fig. B). |
| 3. | R-G Horiz. Lines, Top and Bottom | Red and Green horizontal bars at top and bottom of screen. | Touch up both controls for best convergence of horizontal bars along vertical center line (Fig. C). |
| 4. | Blue Horiz. Lines, Top and Bottom | Blue horizontal bars at top and bottom of screen. | Touch up both controls for best convergence of horizontal bars along vertical center line (Fig. C). |
| 5. | | | Perform center dot static convergence (Fig. A). |
| 6. | Blue Horiz. Lines, Right | Blue horizontal bars at right side of screen. | Touch up both controls for best convergence along horizontal center line (Fig. D). |
| 7. | Blue Horiz. Lines, Left | Blue horizontal bars at left side of screen. | |
| 8. | R-G Vert. Lines, Right | Red and Green vertical lines at right side of screen. | (Fig. E) |
| 9. | R-G Horiz. Lines, Right | Red and Green horizontal bars at right side of screen. | Use control to converge blue bar with red and green bars on right side of screen (Fig. E). |
| 10. | R-G Vert. Lines, Left | Red and Green vertical bars at left side of screen. | (Fig. E) |
| 11. | R-G Horiz. Lines, Left | Red and Green horizontal bars at left side of screen. | Use control to converge blue bar with red and green bars at left side of screen (Fig. E). |

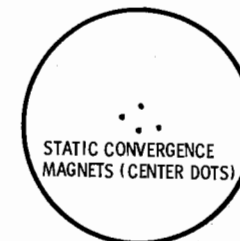


FIG. A

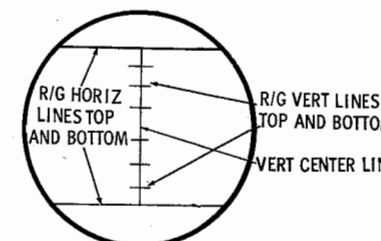


FIG. B
(RED & GREEN ONLY)

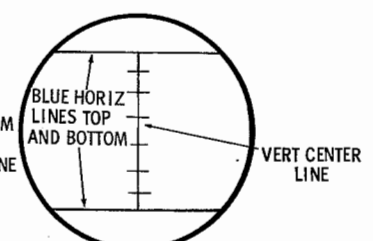


FIG. C
(BLUE BARS)

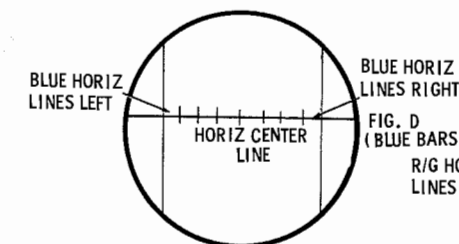


FIG. D
(BLUE BARS)

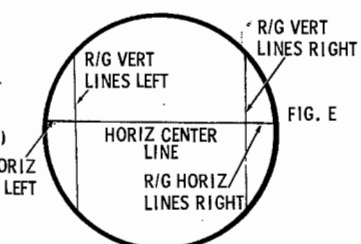


FIG. E

SET 673 FOLDER 2

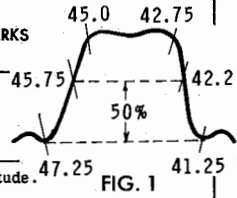
ALIGNMENT INSTRUCTIONS

Use an isolation transformer and maintain voltage at 117 volts. Allow a 20-minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: A1 thru A10 GENERAL CEMENT #9302, 8608L, 8869 ... WALSCO #2511, 2544, 2588
Mixer Plate Coil .. GENERAL CEMENT #9302, 9296, 9297 WALSCO #2511, 2546, 2547

VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from those shown. Connect a variable bias supply to the IF AGC line (point Ⓢ) and adjust to obtain a response curve which shows no indication of overload. Disable Oscillator section of Mixer-Osc. Set the Channel Selector to any non-interfering channel.

INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1.	Connect DC probe of a VTVM thru a 47K resistor to point Ⓢ. Common to ground.		41.25MC 47.25MC	A1, A2, R22 (Sound Reject Control)	Adjust for MINIMUM.
2.	Connect DC probe of a VTVM thru a 47K resistor to point Ⓢ. Common to ground.	44MC (10MC Sweep)	43.8MC 42.5MC 45.75MC 44.0MC	A3, A4, A5, A6, Mixer Plate Coil	Adjust for maximum amplitude.
3.	Connect vertical input of a scope to point Ⓢ. Low side to ground.	44MC (10MC Sweep)	41.25MC 42.2MC 45.75MC 45.0MC 45.75MC 47.25MC		Adjust for maximum gain and symmetry of response with markers as shown in Figure 1. In order to obtain a proper response, it may be necessary to slightly retouch A3, A4, A5, A6 and Mixer Plate Coil for optimum response.



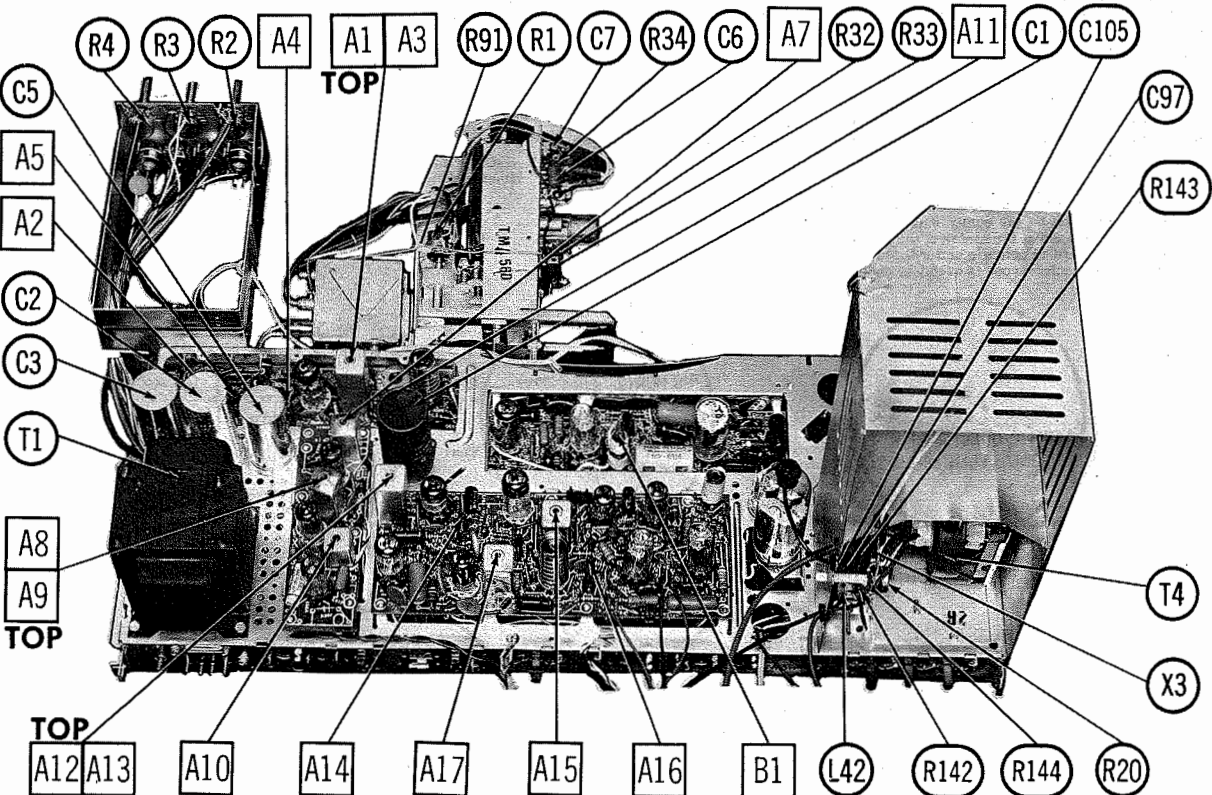
SOUND ALIGNMENT

Connect a VTVM thru a detector probe to point Ⓢ. Tune in a TV station and adjust A7, A8, and A9 for maximum deflection. Remove the VTVM. Reduce the signal at the antenna terminals until distortion occurs in the sound. Adjust A10 clockwise from the fully out position to the second peak. Continue to reduce the signal and adjust A10 for MINIMUM distortion until no further improvement can be made.

4.5 MC TRAP ALIGNMENT

Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A11 for MINIMUM beat interference.

ALIGNMENT CONTINUED ON PAGE 17



CHASSIS—TOP VIEW

ALIGNMENT INSTRUCTIONS (cont)

CHROMA BANDPASS ALIGNMENT

The following alignment will require the use of an RF Modulator (RCA WG304A or equivalent). Connect a -15 volt supply to point Ⓢ. Connect a -2 volt supply to point Ⓢ. Connect a -15 volt supply to point Ⓢ. Positive of all supplies to ground. Connect a jumper from point Ⓢ to ground. Turn the color intensity to maximum. Remove the Horizontal Output tube and connect a 2000Ω 100W resistor from Source "B" to ground.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4.	High side thru .1mf to grid of Bandpass Amp. (V17). Low side to ground.	3.58MC (3-5MC Sweep)	3.08MC 4.08MC	Vert. Amp. to pin 1 of demodulators, point Ⓢ. Low side to ground.	A12, A13	Adjust for response curve similar to Fig. 2.
5.	High side of sweep gen. to Video Sweep Input of RF demodulator. High side of signal gen. to picture carrier input. Output of RF modulator to mixer grid test point on tuner. Low side to ground.	Sweep generator to 3MC (6MC Sweep)	45.75MC	"	A14	Adjust for response curve similar to Fig. 3. If necessary retouch A12 to flatten top of response.

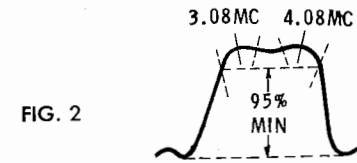


FIG. 2

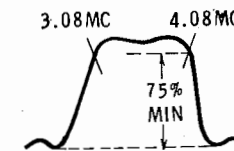


FIG. 3

SET MARKERS AT EQUAL HEIGHTS

VHF TUNER ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

Allow a 20 minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: A201 GENERAL CEMENT #8728, 8275, 8195 ... WALSCO #2531X, 2541, 2526
A202, A203, A204 .. GENERAL CEMENT #9302, 9296, 9297 WALSCO #2511, 2546, 2547

VHF OSCILLATOR ALIGNMENT (TUNERS KRK103 & KRK107)

Starting with the highest available channel in the area, check to see that all high band channels (7-13) can be tuned in with the fine tuning control. If any channels cannot be tuned in with the fine tuning, switch to channel 13 and adjust the oscillator slug (accessible through a hole in the indicator drive gear) and recheck all high band channels. Check all available low band channels to see if they are well within the range of the fine tuning. If not, switch to channel 6 and adjust the channel 6 slug and recheck all low band channels.

VHF OSCILLATOR ALIGNMENT (TUNERS KRK104 & KRK108)

Starting with the highest available channel, check to see that each channel can be tuned in well within the range of the fine tuning. If any channel cannot be tuned in, adjust the oscillator on that channel.

RF AND MIXER ALIGNMENT (BOTH TUNERS)

Use only enough generator output to provide a usable indication. Use 10MC sweep unless otherwise noted. Connect variable bias to RF AGC line at point Ⓢ. Adjust bias to obtain response curve which shows no indication of overloading.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	Across antenna terminals with 120Ω in each lead.	195MC	10	Vert. Input to point Ⓢ. Low side to ground.	A201	Increase bias to -15 volts. Adjust for MINIMUM response.
2.	"	213MC	13	"	A202	Adjust for response curve similar to Fig. 201 with markers as shown. If necessary spread or compress RF Amp plate coil and high band coupling for best response.
3.	"	85MC	6	"	A203, A204, A205	Adjust for response curve similar to Fig. 201. If necessary, adjust low band coupling for best response.
4.	"	207MC 201MC 195MC 189MC 183MC 177MC 79MC 69MC 63MC 57MC	12 11 10 9 8 7 5 4 3 2	"		Check all channels for response similar to Fig. 201. If necessary, spread or compress the coils on each channel for optimum response.

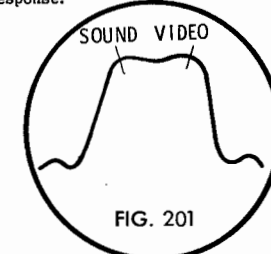
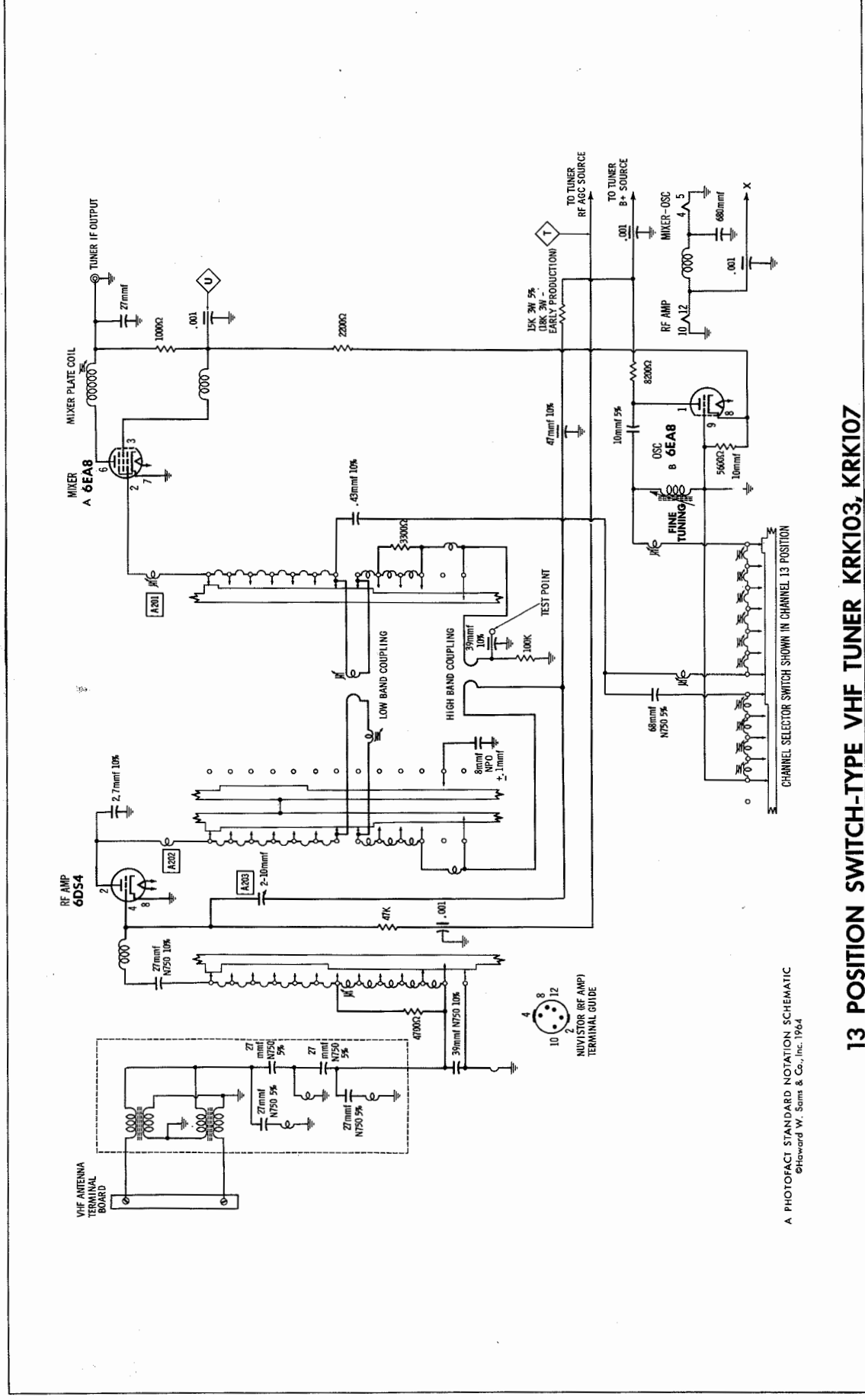


FIG. 201

RCA VICTOR CHASSIS
CTC15AA/AB/AE/AF/AC/D/E/R/T/U

FOLDER 2



13 POSITION SWITCH-TYPE VHF TUNER KRK103, KRK107
VHF TUNER PARTS LIST

ITEM No.	AMPEREX		GENERAL ELECTRIC		RCA		RAYTHEON		SYLVANIA	
	USE	TYPE	USE	TYPE	USE	TYPE	USE	TYPE	USE	TYPE
V201	RF Amp.	6D54			V202	Mixer - Osc.				6EA8

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA		
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.
C201	27 N470 5%	#108348	DD-681	BYA10766	107CT-Q27
C202	27 N470 5%	#108348	TCN-27		107CT-Q27
C203	27 N470 5%	#108348	MFT-1000		107CT-Q27
C204	50 N470 5%	#112040			107S-T68
C205	680				107CU-Q27
C206	27 N750 10%	#112041			107CU-Q27
C207	2.0	#78443			
C208	2.7	#112038			
C209	2-10	#112039			
C210	47	#112039			
C211	10 N470 10%	#112040			
C212	39	#112040			
C213	.001	#108348			
C214	27 N750 5%	#78137			
C215	.001				
C216	.001				
C217	.001				
C218	.51mmf				
C219	10%				

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA		
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.
C220	66 N750 5%	#78850	DD-481	BYA10768	CCD-481
C221	10 N470 5%	#113279	MFT-1000		CCF-102
C222	680				
C223	.001				

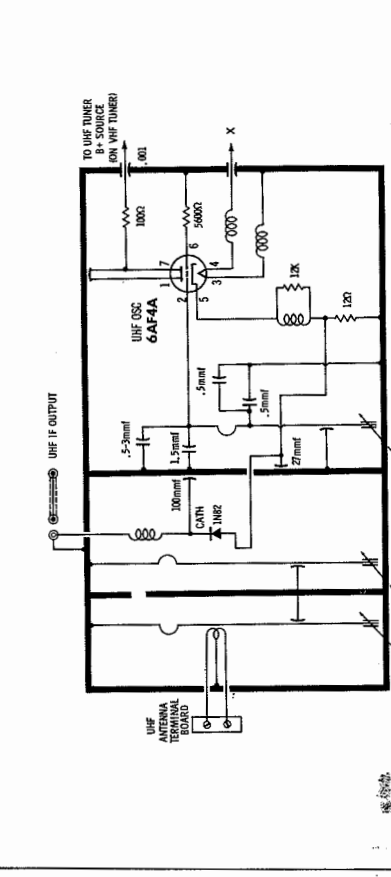
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

* RCA Victor Part Number

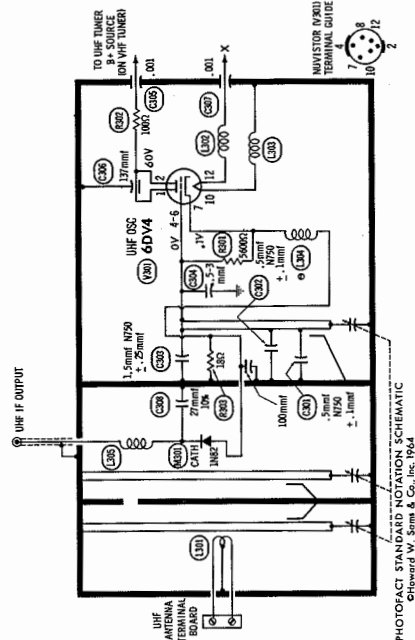
COILS (RF-IF)

ITEM No.	USE	RCA Victor PART No.	NOTES	RCA Victor PART No.	NOTES
L201	Ant. Matching	112050	Part of L201		
L202	RF Choke		Part of L201		
L203	RF Choke		Part of L201		
L204	IF Trap		Channels 2 - 12		
L205	RF Choke		113822 used in some chassis		
L206	Ant. Choke		Channels 2 - 12		
L207	UHF IF Input		113822 used in some chassis		
L208	RF Choke		Channels 2 - 12		
L209	RF Choke		Channels 2 - 12		
L210	RF Choke		Channels 2 - 12		
L211	RF Wafer		Channels 2 - 12		
L212	RF Choke		Channels 2 - 12		

UHF TUNER PARTS LIST

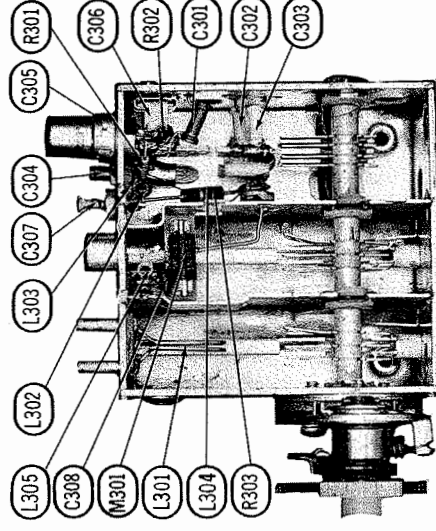


UHF TUNER KRK66



UHF TUNER KRK112

RCA VICTOR CHASSIS
CT155A/AB/AE/AF/C/D/E/R/T/U



UHF TUNER KRK112

COILS (RF-IF)

ITEM No.	USE	RCA Victor PART No.	NOTES	RCA Victor PART No.	NOTES
L301	Antenna Choke	112502			
L302	Choke				
L303	Choke				
L304	Choke				
L305	Output				

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA		
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.
C301	.5mmf N750 ±.1mmf	#104817	DD-270	LAL0Q27-S	107S-Q27
C302	.5mmf N470 ±.1mmf	#102878			
C303	1.5 N750 ±.25mmf				
C304	.5-3.0				
C305	.001	#112889			
C306	137				
C307	.001	#112894			
C308	27				

* RCA Victor Part Number

ITEM No.	USE	TYPE	USE	TYPE
Y301	UHF Oscillator	8D74		

ITEM No.	USE	TYPE	USE	TYPE
Y301	UHF Oscillator	8D74		

ITEM No.	USE	TYPE	USE	TYPE
Y301	UHF Oscillator	8D74		

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Y301	UHF Oscillator	8D74		

ITEM No.	USE	TYPE	USE	TYPE
Y301	UHF Oscillator	8D74		

ITEM No.	USE	TYPE	USE	TYPE
Y301	UHF Oscillator			

PARTS LIST AND DESCRIPTION (CONTINUED)

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

COILS (SWEEP CIRCUITS)(cont)

ITEM No.	USE	REPLACEMENT DATA							NOTES
		PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	Workman PART No.	
L39	Horiz. Right Red & Green (Right Red & Green Vert. Line) (2.8MH-6.8MB)	105065							T149
L40	Horiz. Right Red & Green (Right Red & Green Horiz. Line) (1.2MH-4.6MH)	113394							
L41	Horiz. Right Blue (Pri. 3.8MH-9.5MB) (Sec. 1.3MH-1.7MB)	109180							
L42	Focus	113640							
L43	Convergence Yoke	109184							
A	Blue Section	100184							
B	Green Section	100184							
C	Red Section	100184							

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (D CURRENT 1000~)	RCA Victor PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L44	.4A DC	15.2Ω	.4 Hy.	112829 (1104665-3)		C-2708	28C81	C-40X	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	RCA Victor PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	128VAC Tap @ 117VAC @ 3.1A	160VAC @ .44A DC	6.3VAC @ 2.3A	113383 (906153-501)					
		6.3VAC @ 12A							

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		RCA Victor PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	Vert. Output (961415-3)	113390					
T3	Yoke (Horiz. 12.4MH) 70° (Vert. 40MH) (903562-507)	109457					
T4	Horiz. Output (906152-501)	113382					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	RCA Victor PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T5	1400Ω	3-4Ω	112822 † (D-961429-3) 113546 †	A-2901	A-3823	24861	S-53X	† Used in Chassis CTC15A, C, D, E, R, T, AE, AF. ‡ Used in Chassis CTC15AA, AB

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		RCA Victor PART No.	QUAM PART No.	
SP1	4" PM 3-4Ω	107474	4A1	Used in Models 14F615RV, 616RV, 612MV/MU, 615MV/MU, 616MV/MU, 617MV/MU.
	4" x 6" PM 3-4Ω	107476	46A1	Used in Models 14G780MV/MU, 788MV/MU, 789MV/MU, 14G788RV, 789RV, 14G748MV/MU, 14G855MV/MU/RV, 856MV/MU/RV, 857MV/MU/RV, 754MV/MU/RV, 736MV/MU/RV.
	6" x 9" PM 6-8Ω	107706		Used in Models 14G835MV/MU, 836MV/MU, 834MV/MU, 896MV/MU, 900MV/MU, 908MV/MU, 14G912MV/RV.
	5" x 7" PM 8-8Ω	106852		Used in Models 14G845MV/MU/RV, 846MV/MU/RV, 14G875MV/MU, 876MV/MU.
	4" x 9" PM 6-8Ω	113038		Used in Models 14G795MV/MU, 796MV/MU, 797MV, 805MV/MU, 806MV/MU.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			RCA Victor PART No.	LITTELFUSE PART No.	BUSS PART No.	HOLDER
M1	1 1/2" #26 Wire	102782				

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M2	VHF Tuner	KRK104N	Used in Models 14F612, 615, 616, 617MU.
	VHF Tuner	KRK104J	Used in Models 14G655, 656, 657MU, 14G736, 746, 754, 760, 768, 769, 795, 796MU, 14G805, 806, 835, 836, 845, 846MU.
	VHF Tuner	KRK108E	Used in Models 14G875, 876, 884, 896, 900, 908MU.
	VHF Tuner	KRK103N	Used in Models 14F612, 615, 616, 617MV.
	VHF Tuner	KRK103J	Used in Models 14G655, 656, 657MV, 14G736, 746, 754, 760, 768, 769, 795, 796, 797MV, 14G805, 806, 835, 836, 845, 846MV.
	VHF Tuner	KRK107F	Used in Models 14F615, 616, 655, 656, 657RV, 14G736, 754, 768, 769, 845, 846RV, 14G912MV.
	VHF Tuner	KRK107D	Model 14G912RV.
	VHF Tuner	KRK107E	Used in Models 14G875, 876MV, 14G884, 896MV, 14G900, 908MV.
M3	VHF Tuner	KRK112C	Used in Models with letter "X" following Model number.
	UHF Tuner	KRK66AM	Used in Models 14G655, 656, 657MU, 14G736, 746, 754, 760, 768, 769, 795, 796MU, 14G805, 806, 835, 836, 845, 846MU.
	UHF Tuner	KRK66AT	Used in Models 14G875, 876, 884, 896MU, 14G900, 908MU.
M4	Diode	112524	Video Detector
M5	Diode	112524	Sound Detector
M6	Diode	109474	Dual Selenium Horiz. AFC
M7	Crytal	105330	3.58 Osc.
M8	Switch	113398	Video Peaking
M9	Switch	46760	Normal Service
M10	Switch	113398	Picture Tube Bias
M11	Switch	112192	UHF Tuner Switch
M12	Circuit Breaker	109835	
M13	Delay Line	109837	3.58MC
M14	Magnet	105024	Convergence Assembly (3 used)
M15	Magnet	112932A	Complete Lateral Assembly
	Printed Board	113407	Sound Circuit, less tubes
	Printed Board	113408	Picture Assembly, less tubes
	Printed Board	113409	Deflection Assembly, less tubes
	Printed Board	113410	Chroma Circuit, less tubes
	Printed Board	113411	Convergence Circuit

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	PART No.	ITEM	PART No.
Mask, used in Models 14F612, 616, 617MV/MU	113273	Knob, UHF Channel Selector, All UHF Models except 14G875, 876, 884, 896MU, 14G900, 908MU	112574
Mask, used in Models 14F615, 616RV	113274	Knob, UHF Channel Selector, used in Models 14G875, 876, 884, 896MU, 14G900, 908MU	113319
Mask, used in Models 14G835, 836, 845, 846MV/MU	113275	Knob, Dummy, used with Knob #112570	112893
Mask, used in Models 14G855, 656, 657RV	113328	Knob, Volume, used in Models 14G760, 768, 769, 746, 754, 795, 796, 736MV/MU, 14G737MV, 14G855, 656, 657MV/MU, 14G805, 806MV/MU	112785
Mask, used in Models 14G736, 746, 754, 760, 768, 769RV	113329	Knob, Volume, used in Models 14G736RV, 14G855, 656, 657, 754, 768, 769RV, 14G835, 836MV/MU, 14F615, 616RV, 14G835, 846MV/MU/RV.	113656
Mask, used in Models 14G795, 796MV/MU	113330	Knob, "On" Volume, used in Models 14G875, 876, 884, 896, 900, 908MV/MU	113320
Mask, used in Models 14G855, 656, 657MV/MU	113331	Knob, Brightness, used in All Models except 14G875, 876, 884, 896, 900, 908MV/MU	112784
Mask, used in Models 14G912MV	113525	Knob, Brightness, used in Models 14G875, 876, 884, 896, 900, 908MV/MU	113535
Mask, used in Models 14G875, 876, 884, 896MV/MU, 14G900, 908MV/MU	113526	Knob, Horiz., Vert., Contrast, Tone, used in All Models except 14G875, 876, 884, 896, 900, 908MV/MU	112928
Knob, VHF Channel Selector, used in Models 14F612, 615, 616, 617MV/MU, 14GF615, 616RV	112570	Knob, Horiz., Vert., Contrast, Tone, used in Models 14G875, 876, 884, 896, 900, 908MV/MU	113533
Knob, VHF Channel Selector, used in Models 14G655, 656, 657MV/MU, 14G736, 754, 760, 768, 769, 746, 754, 795, 796MV/MU	112939	Knob, Horiz., Vert., Contrast, Tone, used in All Models except 14G875, 876, 884, 896, 900, 908MV/MU	113536
Knob, VHF Channel Selector, used in Models 14G875, 876, 884, 896MV/MU, 14G900, 908MV/MU	113316	Knob, Horiz., Vert., Contrast, Tone, used in Models 14G875, 876, 884, 896, 900, 908MV/MU	113538
Knob, VHF Channel Selector, used in Models 14G655, 656, 657, 736, 754, 768, 769RV, 14G835, 836, 845, 846MV/MU, 14G845, 846RV, 13G912MV/RV	113245	Knob, Horiz., Vert., Contrast, Tone, used in All Models except 14G875, 876, 884, 896, 900, 908MV/MU	113263
Knob, Fine Tuning, used in Models 14G855, 656, 657, 736, 746, 754, 760, 768, 769, 795, 796MV/MU, 14G797MV, 14G805, 806MV/MU, 14F615, 616RV, 14F612, 615, 616, 617MV/MU	112786	Knob, Horiz., Vert., Contrast, Tone, used in Models 14G875, 876, 884, 896, 900, 908MV/MU	113584
Knob, Fine Tuning, used in Models 14G655, 656, 657, 736, 754, 768, 769RV, 14G835, 836MV/MU, 14G912MV/RV, 14G845, 846MV/MU/RV.	113071	Knob, Color, used in All Models except 14G875, 876, 884, 896, 900, 908MV/MU	113584
Knob, Fine Tuning, used in Models 14G875, 876, 884, 896, 900, 908MV/MU	113315	Knob, Color, used in Models 14G875, 876, 884, 896, 900, 908MV/MU	113534
		Knob, Focus Control	112833

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869 (17KV) or 8868 (25KV)
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors 8874 (Rubber) or 8895 (Plastic)
Power Cord (Interlock Type)	Use BELDEN No. 8225
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8275 (Foam Core) or 8285 (Foam Jacketed)
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8464 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor

PARTS LIST AND DESCRIPTION

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

TUBES

ITEM No.	USE	TYPE	REPLACEMENT DATA				NOTES
			RCA Victor PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V1	1st Video IF Amp.	6JH6					
V2	2nd Video IF Amp.	6GM6					
V3	3rd Video IF Amp.	6EJ7/EF184					
V4	1st & 2nd Video Amp.	6AW8A					
V5	Video Output	12BY7A					
V6	AGC Keying - Sync Sep. - Noise Inverter	6KA8					
V7	Sound IF	6EW8					
V8	Audio Detector	6H28					
V9	Audio Output	6AQ5A					
V10	Vert. Mult. - Vert. Output	6CF7					
V11	Horiz. AFC - Horiz. Osc.	6FQ7					
V12	Horiz. Output	6JE6					
V13	Damper	6DW4					
V14	HV Rectifier				3A3		
V15	HV Regulator				6BK4		
V16	Chroma Bandpass Amp. - Color Killer				6GH8A		
V17	Burst Amp.				6EW6		
V18	Chroma Sync Phase Det. - Color Killer Det.				6JU8		
V19	Chroma Ref. Osc. Control - Chroma Ref. Osc.				6GH8A		
V20	"Z" Demodulator				6GY8		
V21	B-Y Amp. - R-Y Amp.				6GU7		
V22	"X" Demodulator				6GY8		
V23	Horiz. Blanking Amp. - G-Y Amp.				6GU7		

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	RCA Victor PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V24	21FJP22	21FJP22 ①	21FJP22 ①	21FJP22 ②	① Aluminized ② Silver Screen "85"

POWER RECTIFIERS

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS		
			MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.44A	106379	1N540 or 1N2070 ①	1N2654 or 1N3195	60H or F-6
X2	.44A	106379	1N540 or 1N2070 ①	1N2654 or 1N3195	60H or F-6
X3		113397 (752314)		CR208	
X4	.0015A	113361		CR203	
X5	.005A	113392	1N2091	1N3764 or 1N2859	10H or F-1
X6A	.025A	113321 (752309)	A50 or D50	1N2858	10H or F-1
B	.013A		A50 or D50	1N2856	10H or F-1
C	.021A		A50 or D50	1N2858	10H or F-1

① X1 and X2 may use a single unit, VB600.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	RCA Victor PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	160	250	112825 (972126-6)	AFH1-31-75 ①	XA0315 ①	XC1-19 ①	TMS-1480 ①	WP131.5 ①	TVL-1540 ①
C2A	160	250	112828 (974576-26)	AFH4-108-38	C0330	XC3-29	TMT-3739	FP376.9	TVL84714.4*
B	30	450			BR200-250	QT1-28	TD-300-300	TC692	
C	20	450							
D	40	150							
C3A	80	450	112827 (974576-26)	AFH4-108-35	C0370	XC3-30	TMT-3763	FP366.5	TVL84714.6*
B	50	450			BR50-50	BR50-50	TD-50-50	TC55	
C	20	250							
D	50	50							
C4	50	150	109227 (442901-61						

PARTS LIST AND DESCRIPTION (CONTINUED)

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

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.	
C24	.001	#109142	SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10	
C25	580 N1500 5%		DI-2200	CF-222	JB6D22	CCD-222	GP222	10TS-D22	
C26	.0022 10%		SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10	
C27	.001		#105304 Note 1	TCZ-100	TCZ-100	C10Q1C	*	CNO-410	10TCC-Q10
C28	10 NPO 5%			BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C29	100 N330 10%			TCZ-100	TCZ-100	C10Q1C	*	CNO-410	10TCC-Q10
C30	.001			TCZ-3R3	TCZ-3R3	C10V33C	CCO-3R3	CNO-533	10TCC-V33
C31	7 NPO 5%			(3.3) †	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C32	3.5 NPO 5%			P488N-1	DF-104	PKM2P1	2DP-3-104	GEM-201	2TM-P10
C33	.1 400V			P288N-1	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C34	.1 200V	P288N-1		DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C35	.01	BPD-01		DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C36	.0022 10%	DI-2200		CF-222	JB6D22	CCD-222	GP222	10TS-D22	
C37	390 10%	DI-390	DD-391	LA10T39-C4	CCD-391	GP339	10TS-T39		
C38	390 10%	DI-390	DD-391	LA10T39-C4	CCD-391	GP339	10TS-T39		
C39	.22 200V	P288N-22	DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C40	.01	BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C41	.001	BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10		
C42	.001	BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10		
C43	.001	BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10		
C44	.001	BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10		
C45	220 10%	DI-220	DD-221	LA10T22-S3	CCD-221	GP322	10TS-T22		
C46	.001	SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10		
C47	1.5 1KV 10%	DI-180	DD-181	LA10T18-S3	CCD-181	GP318	10TS-T18		
C48	1.5 N3300	#103411	TCZ-10	C10Q1C	*	CNO-410	10TCC-Q10		
C49	10 NPO 5%		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C50	5 N1500 5%		DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C51	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C52	750 N2200 5%		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C53	.01		DI-580	DD-581	LA10T58-C4	CCD-581	B-356	5GA-T58	
C54	580		P288N-047	DD-503	CUB2847	4DP-3-473	GEM-2147	2TM-547	
C55	.047 200V		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C56	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C57	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C58	47 N750 10%	N750-DI 47	DTN-47	C10Q47U	CCTN-470	CN7-447	10TCU-Q47		
C59	.0068	BYA10D68	DD-682	BYA10D68	CCD-682	B-268	5HK-D68		
C60	.001	SI 1000	D6-102	LA10D1-C4	CCD-102	B-210	5HK-D10		
C61	.0047	BYA10D47	DD-472	BYA10D47	CCD-472	B-247	5HK-D47		
C62	.001 2KV 10%	PKM80D1	DD-332	PKM80D1	CCD-332	B-233	5HK-D33		
C63	.0033	BYA10D33	DD-391	LA10T39-C4	CCD-391	GP339	10TS-T39		
C64	390 10%	DI-390	DD-102	BYA10D1	CCD-102	B-210	5HK-D10		
C65	.001	NPO-DI 47	DTZ-47	C10Q47C	CCTO-470	CNO-447	10TCC-Q47		
C66	47 NPO 10%	BYA10D47	DD-222	LA10D22-C4	CCD-222	B-215	10TS-D15		
C67	.0022	BPD-0015	DD-152	LA10D15-C4	CCD-152	PVC6139	6PS-S35		
C68	.0015	BPD-0015	DD-152	LA10D15-C4	CCD-152	PVC6139	6PS-S35		
C69	.036 600V 10%	BE6839	*	6DP-3-393	*	GEM-601	6TM-P10		
C70	.0027 N5600 10%	#113387	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P10		
C71	.1 600V		P688N-1	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P10	
C72	.1 600V		P688N-1	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P10	
C73	.47 200V		P288N-47	DD-822	PKM16D82	16DP-3-802	GEM-16282	16TM-P47	
C74	.0082 1KV		P1088N-008	DD-503	CUB2847	4DP-3-473	GEM-2147	2TM-547	
C75	.047 200V		P288N-047	DD-881	BYA10T88	CCD-881	B-388	10TS-T88	
C76	880		BPD-00068	DD-681	BYA10T68	CCD-681	B-388	10TS-T68	
C77	880		BPD-00068	DD-681	BYA10T68	CCD-681	B-388	10TS-T68	
C78	.0088 400V 10%		BE6D68	8DP-1-682	WFM4D68	8DP-1-682	PVC4268	6PS-D68	
C79	.001 2KV 10%		PKM80D1	DD-332	PKM80D1	CCD-332	B-233	5HK-D33	
C80	100 N1500 3KV 5%	#108306	NPO-DI 68	DTZ-68	C10Q68C	CCTO-680	CNO-468	10TCC-Q68	
C81	580 N3300 2.5KV 10%		DI-820	DD-821	JB8T8	CCD-821	GP382	10TS-T82	
C82	580 N3300 2.5KV 10%		DI-820	DD-821	JB8T8	CCD-821	GP382	10TS-T82	
C83	68 NPO 10%		DI-820	DD-821	JB8T8	CCD-821	GP382	10TS-T82	
C84	820 10%		DI-820	DD-821	JB8T8	CCD-821	GP382	10TS-T82	
C85	820 10%		DI-820	DD-821	JB8T8	CCD-821	GP382	10TS-T82	
C86	27 N750 10%		C10Q25U	TCN-27	C10Q25U	CCTN-270	CN7-427	10TCU-Q27	
C87	.001 10%		DI-1000	DD-102	JB8D1	CCD-102	GP210	10TS-D10	
C88	.15 200V		P288N-15	DD-102	PM2P15	2DP-3-154	GEM-2015	2PS-P15	
C89	390 1.5KV 5%		P488N-01	DD-103	PM481	4DP-1-103	GEM-411	4PS-S10	
C90	.01 400V	ADM-19-681J	DM-19-681J	CD19F681J	DM-19-681J	MCJ249	MS-388		
C91	680 5%	PM6D15	DD-152	PM6D15	8DP-1-152	PVC6215	6PS-D15		
C92	.0015 600V 10%	P688N-01	DD-103	PM6S1	6DP-2-103	GEM-611	6PS-S10		
C93	.01 600V	P688N-01	DD-103	PM6S1	6DP-2-103	GEM-611	6PS-S10		
C94	.1 600V	P688N-1	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P10		
C95	.047 600V 10%	P688N-047	DD-503	CUB6S47	6DP-3-473	GEM-6147	6TM-S47		
C96	68 4KV 10%	#112847 #109229	DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C97	130 N2200 6KV		DAC-27	DD16-103	HVE16S1	16DP-3-103	UAC-117	BL-S10	
C98	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C99	.01 1.4KV		DAC-27	DD16-103	HVE16S1	16DP-3-103	UAC-117	BL-S10	
C100	.1 800V		P688N-1	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P10	
C101	22 1KV		BPD-000022	DD-220	LA10Q22-SL	CCD-220	GP422	5GA-Q22	
C102	.088 600V 10%		Note 2 Note 2	DD-220	LA10Q22-SL	CCD-220	GP422	5GA-Q22	
C103	.082 600V ±10%			DAC-27	DD16-103	HVE16S1	16DP-3-103	UAC-117	BL-S10
C104	.01 1.4KV			N750-DI 25	TCN-27	C10Q25U	CCTN-270	CN7-427	10TCU-Q27
C105	27 N750			DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C106	120 N1500 4KV 10%	DD-103		BYA10S1	CCD-103	B-110	5HK-S10		
C107	.001	DD-103		BYA10S1	CCD-103	B-110	5HK-S10		
C108	.01	DD-103		BYA10S1	CCD-103	B-110	5HK-S10		
C109	.01	DD-103		BYA10S1	CCD-103	B-110	5HK-S10		
C110	120 10%	DI-120		DD-121	LA10T12-S3	CCD-121	GP312	10TS-T12	
C111	330 5%	ADM-15-331		DM-15-331J	CD15F331J	DM-15-331J	MS-333	MS-333	
C112	330 5%	ADM-15-331	DM-15-331J	CD15F331J	DM-15-331J	MS-333	MS-333		
C113	330 5%	ADM-15-331	DM-15-331J	CD15F331J	DM-15-331J	MS-333	MS-333		
C114	330 5%	ADM-15-331	DM-15-331J	CD15F331J	DM-15-331J	MS-333	MS-333		
C115	10 NPO 10%	NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10		
C116	.047 200V	P288N-047	DD-503	CUB2847	4DP-3-473	GEM-2147	2TM-547		
C117	.01	BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C118	620 10%	DI-820	DD-821	JB8T8	CCD-821	GP382	10TS-T82		
C119	.001	BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10		
C120	150 10%	DI-150	DD-151	LA10T15-S3	CCD-151	GP315	10TS-T15		
C121	470 N750 5%	TCN-470	DTN-470	C10Q47U	CCTN-470	CN7-447	10TCU-Q47		
C122	.01	BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C123	.01	BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C124	1.3 10%	#112884	DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C125	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C126	.1 200V		P288N-1	DF-104	PKM2P1	2DP-3-104	GEM-201	2TM-547	
C127	4 NPO ±.5mmf		DD-103	BYA10S1	CCD-103	B-110	5HK-S10		
C128	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C129	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C130	10 NPO 10%		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10	
C131	280 N750 10%		N750-DI 220	DTN-220	C10T22U	CCTN-221	CN7-322	10TCU-T22	
C132	6 NPO 5%								

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C133	.01	#109280	BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C134	82 NPO 10%		DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C135	150 5%		ADM-15-151	DM-15-151J	CD15F151J	DM-15-151J	MS-315	MS-315
C136	.047 200V		P288N-047	DD-503	CUB2847	4DP-3-473	GEM-2147	2TM-547
C137	33 N150		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C138	.01 600V		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C139	.01 600V		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C140	.01		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C141	33 N150		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C142	.01 600V		BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10
C143	.01 600V	BPD-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C144	.22 400V	P488N-22	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C145	.01 600V	P688N-01	DD-103	BYA10S1	CCD-103	B-110	5HK-S10	
C146								

PHOTOFACT® Folder

with CIRCUITRACE™

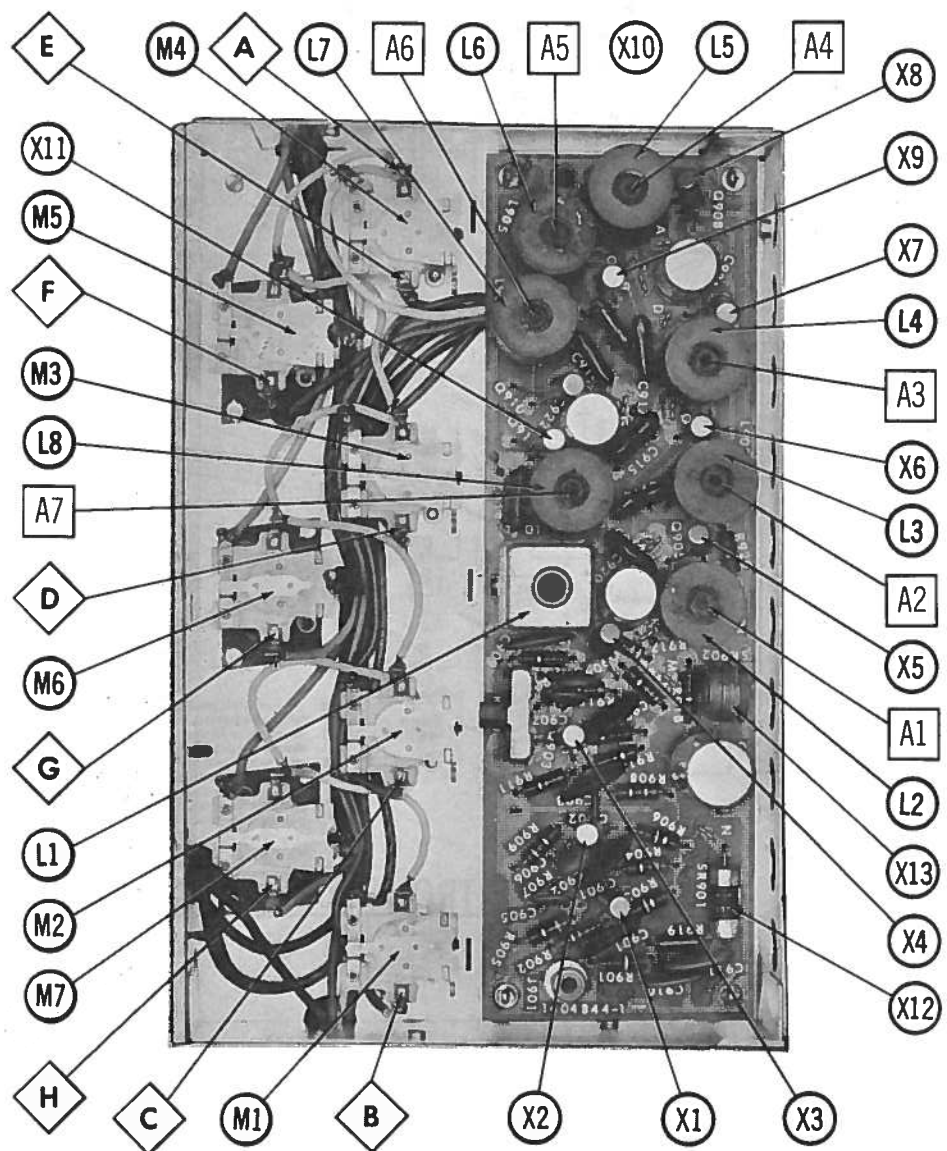
RCA VICTOR REMOTE CONTROL RECEIVER
CHASSIS CTP10A, TRANSMITTER CRK6A

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 673 FOLDER 2 . File this Folder with the TV Folder in the yellow filing jacket provided.

RCA VICTOR REMOTE CONTROL RECEIVER
CHASSIS CTP10A, TRANSMITTER CRK6A

RCA VICTOR REMOTE CONTROL RECEIVER
CHASSIS CTP10A, TRANSMITTER CRK6A



RECEIVER - TOP VIEW

MANUFACTURER	Radio Corporation of America, RCA Victor Home Instrument Div., Indianapolis 1, Indiana	
TYPE SET	Remote Control Receiver CTP10A, Transmitter CRK6A	
TRANSISTORS	Remote Control - Eleven, Transmitter - One	
POWER SUPPLY	110-120 Volts AC, 60 Cycle	RATING 5 Watts, .050 Amp. @ 117 Volts AC

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

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

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MB022R

RECEIVER TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X1	2N410	1st Amp.	D826	GE2	2N410	PNP
X2	2N410	2nd Amp.	D826	GE2	2N410	PNP
X3	2N410	3rd Amp.	D826	GE2	2N410	PNP
X4	2N410	4th Amp.	D826	GE2	2N410	PNP
X5	2N406	Tint Up Relay Control	D826	GE2	2N406	PNP
X6	2N406	Tint Down Relay Control	D826	GE2	2N406	PNP
X7	2N406	Color Up Relay Control	D826	GE2	2N406	PNP
X8	2N406	Color Down Relay Control	D826	GE2	2N406	PNP
X9	2N406	Volume Up Relay Control	D826	GE2	2N406	PNP
X10	2N406	Volume Down Relay Control	D826	GE2	2N406	PNP
X11	2N406	Channel Sel. Relay Control	D826	GE2	2N406	PNP

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS			NOTES
			MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X12		112018	1N2070	1N2862	MODEL 12	Rectifier (Selenium) Rectifier (Selenium) When replacing selenium rectifier with silicon type, add series resistance to obtain original output voltage.
X13		112017	1N2069	1N2860	2F4	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		RCA Victor PART No.	REPLACEMENT DATA					NOTES	
	CAP.	VOLT.		AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.		SPRAGUE PART No.
C1A	100	20	112765	BCD20X100100	BCPAP21					
B	100	20	(973983-11)							
C2A	10	25	112763	PRS2050						
B	10	25	(973983-9)							
C3A	10	20	112764							
B	10	20	(973983-10)							
C	10	20								
C4A	10	20	112764							
B	10	20	(973983-10)							
C	10	20								

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMenco PART No.	MALLORY PART No.	SPRAGUE PART No.	
C5	.0047		BPD-0047	DD-472	BYA10D47	HCC10104Z	CCD-472	B-247	5HK-D47
C6	.1	10V		UK10-104	BYA10D47	HCC10104Z	CCD-472	TA-010	HY-320
C7	.0047		BPD-0047	DD-472	BYA10D47	HCC10104Z	CCD-472	B-247	5HK-D47
C8	.1	10V		UK10-104	BYA10D47	HCC10104Z	CCD-472	TA-010	HY-320
C9	.0047		BPD-0047	DD-472	BYA10D47	HCC10104Z	CCD-472	B-247	5HK-D47
C10	.1	10V		UK10-104	BYA10D47	HCC10104Z	CCD-472	TA-010	HY-320
C11	.0047		BPD-0047	DD-472	BYA10D47	HCC10104Z	CCD-472	B-247	5HK-D47
C12	.1	10V		UK10-104	BYA10D47	HCC10104Z	CCD-472	TA-010	HY-320
C13	.01		BPD-01	DD-103	BYA10E1	HCC10104Z	CCD-103	B-110	5HK-810
C14	680	100V 10%	1469-00068	CPR-880J	SR5T68	DM-15-881K	MCJ249	MS-368	MS-368
C15	680	100V 10%	1469-00068	CPR-880J	SR5T68	DM-15-881K	MCJ249	MS-368	MS-368
C16	680	100V 10%	1469-00068	CPR-880J	SR5T68	DM-15-880K	MCJ249	MS-368	MS-368
C17	680	100V 10%	1469-00068	CPR-880J	SR5T68	DM-15-881K	MCJ249	MS-368	MS-368
C18	680	100V 10%	1469-00068	CPR-880J	SR5T68	DM-15-881K	MCJ249	MS-368	MS-368
C19	680	100V 10%	1469-00068	CPR-880J	SR5T68	DM-15-881K	MCJ249	MS-368	MS-368
C20	680	100V 10%	1469-00068	CPR-880J	SR5T68	DM-15-881K	MCJ249	MS-368	MS-368
C21	.01		BPD-01	DD-103	BYA10E1	HCC10104Z	CCD-103	B-110	5HK-810
C22	.01		BPD-01	DD-103	BYA10E1	HCC10104Z	CCD-103	B-110	5HK-810
C23	.1	50V	(120) †	CK-104			TA-010	9GAB-P1	
C24	.1	50V	#107639						
C25	6-21		#107639						
C26	6-21		#107639						
C27	33	5%		1469-00033	CPR-33J	22R5Q33	DM-15-330J		MB-433
C28	91	5%					DM-15-910G		
C29	6-21		#107639						
C30	6-21		#107639						
C31	160	5%					DM-15-161G		
C32	220	5%					DM-15-221G		
C33	120	5%					DM-15-121G		
C34	6-21		#107639						
C35	6-21		#107639						
C36	56	5%					DM-15-560G		

† Alternate Value

RCA Victor Part Number

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			RCA Victor PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Sensitivity	6800Ω	112014 (945364-3)				

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		RCA Victor PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	Bandpass	112770					
L2	Tint Control	112766					
L3	Tint Control	112766					
L4	Color Control	112767					
L5	Color Control	112767					
L6	Motor Control	112768					
L7	Motor Control	112768					
L8	Channel Selector	112769					

PARTS LIST AND DESCRIPTION

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	RCA Victor PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ .050A	230VAC @	14VAC CT @ .004A DC	112762					

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M1	Relay	112780	Tint Control Up
M2	Relay	112780	Tint Control Down
M3	Relay	112780	Color Control Up
M4	Relay	112780	Color Control Down
M5	Relay	112759	Volume Control Up
M6	Relay	112759	Volume Control Down
M7	Relay	112759	Channel Selector

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord	Use BELDEN No. 8524 (Stranded) Available in 12 Colors
Power Cord (Interlock Type)	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft. 17109 (Plastic) or 17129 (Rubber) - 9 Ft. 8874 (Rubber) or 8895 (Plastic)

TRANSMITTER TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X14	2N406	Oscillator	D826	GE2	2N406	PNP

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		RCA Victor PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L9	Remote Transmitter Osc.	112963					

BATTERIES

ITEM No.	VOLTAGE	RCA Victor PART No.	REPLACEMENT DATA			NOTES
			BURGESS	EVEREADY	MALLORY	
M8	4V	VE163	E163	E163	TR-163	

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M9	Microphone	112942	

ALIGNMENT INSTRUCTIONS

REMOTE CONTROL RECEIVER PRE-ALIGNMENT INSTRUCTIONS

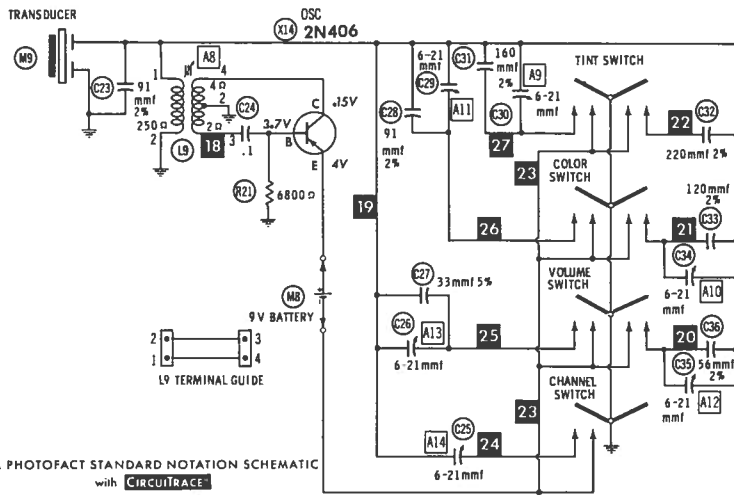
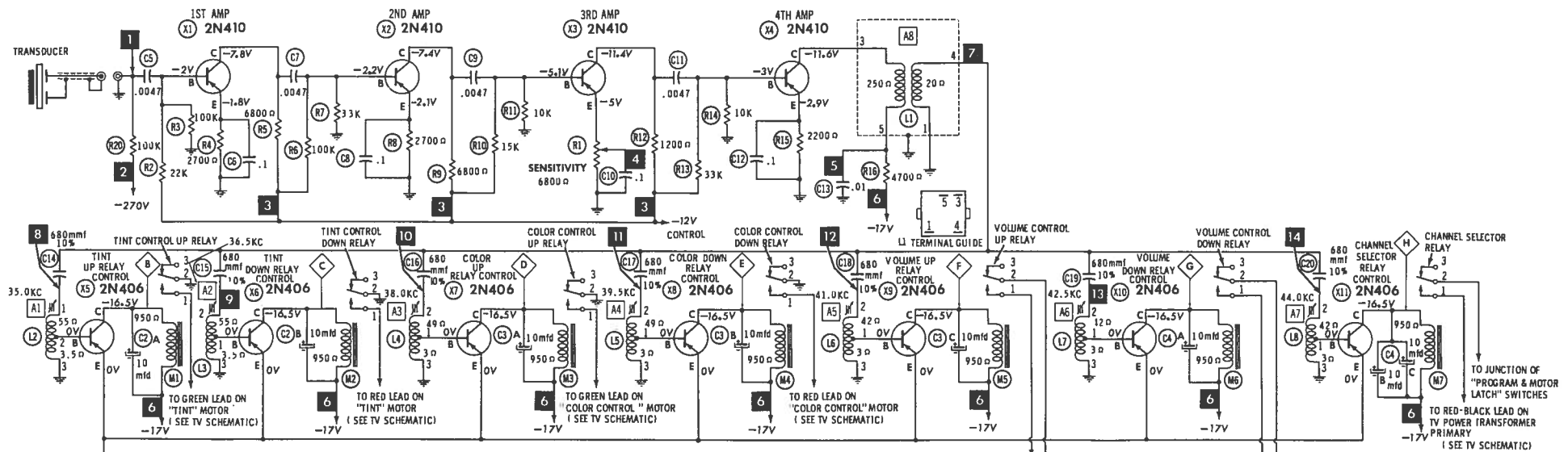
Suggested Alignment Tools: GENERAL CEMENT #8606, 8606L, 8869; WALSCO #2543, 2544, 2588
A Transmitter known to be operating properly (preferably one checked for accuracy by a crystal standard) is used as a signal source. For each step depress the appropriate button and hold it down while adjusting receiver circuits. Connect common lead of VTVM to point Ⓛ. Maintain Transmitter at the distance which will provide -7 volt reading at each point.

SIGNAL GENERATOR COUPLING	TRANS. FREQ.	FUNCTION	CONNECT VTVM	ADJUST	REMARKS
1.	35.0KC	Up Tint	DC probe to point Ⓛ	A1	Adjust for maximum.
	36.5KC	Down Tint	DC probe to point Ⓛ	A2	"
	38.0KC	Up Color	DC probe to point Ⓛ	A3	"
	39.5KC	Down Color	DC probe to point Ⓛ	A4	"
	41.0KC	Up Volume	DC probe to point Ⓛ	A5	"
	42.5KC	Down Vol.	DC probe to point Ⓛ	A6	"
	44.0KC	Chan. Sel.	DC probe to point Ⓛ	A7	"

REMOTE CONTROL TRANSMITTER PRE-ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: A8 GENERAL CEMENT #8606, 8606L, 8869 .. WALSCO #2543, 2544, 2588
A9 thru A14 .. GENERAL CEMENT #9087, 8290, 8868 ... WALSCO #2525, 2526, 2587
A Transmitter known to be operating properly (preferably one that has been checked with a crystal standard) may be used as a signal source. Loosely couple the Transmitter which is adjusted to the Vertical Input of a Scope. Loosely couple the standard Transmitter to the Horizontal Input of Scope. Keep Transmitters at least 2 feet apart.

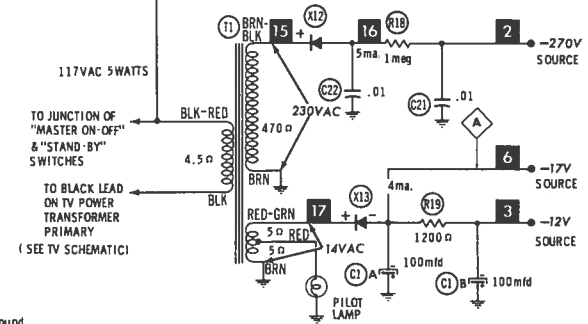
SIGNAL GENERATOR COUPLING	TRANS. FREQ.	FUNCTION	CONNECT SCOPE	ADJUST	REMARKS
1.	35KC	Up Tint	See above Pre-Alignment Instructions	A8	Adjust for zero beat indication.
	36.5KC	Down Tint	"	A9	"
	38KC	Up Color	"	A10	"
	39.5KC	Down Color	"	A11	"
	41.0KC	Up Volume	"	A12	"
	42.5KC	Down Vol.	"	A13	"
	44.0KC	Chan. Sel.	"	A14	"



A PHOTOFAC STANDARD NOTATION SCHEMATIC
with **CIRCUITRACE**
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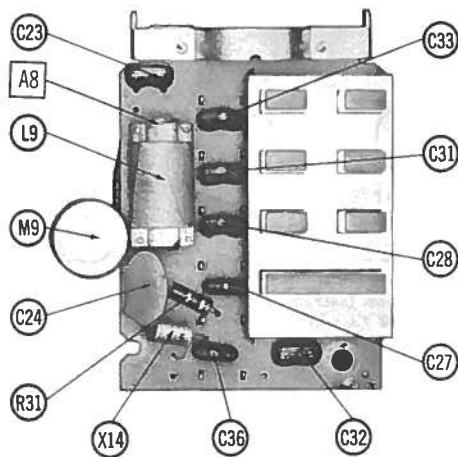


- ⊕ See parts list for alternate value or application.
1. Voltage measurements taken with vacuum tube voltmeter.
2. All controls set for normal operation, no signal applied.
3. Measured values are from socket pin or terminal to common ground.
4. All terminals viewed from bottom unless otherwise designated.
5. Numbers assigned to terminals may not be found on the unit.
6. Supply voltage maintained at rated value for voltage readings.
7. Resistance measurements not given because of the wide variation in internal resistance of transistor.

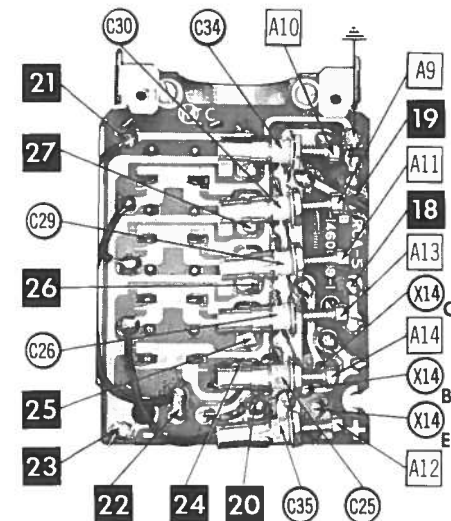


RCA VICTOR REMOTE CONTROL RECEIVER CHASSIS CTP10A, TRANSMITTER CRK6A

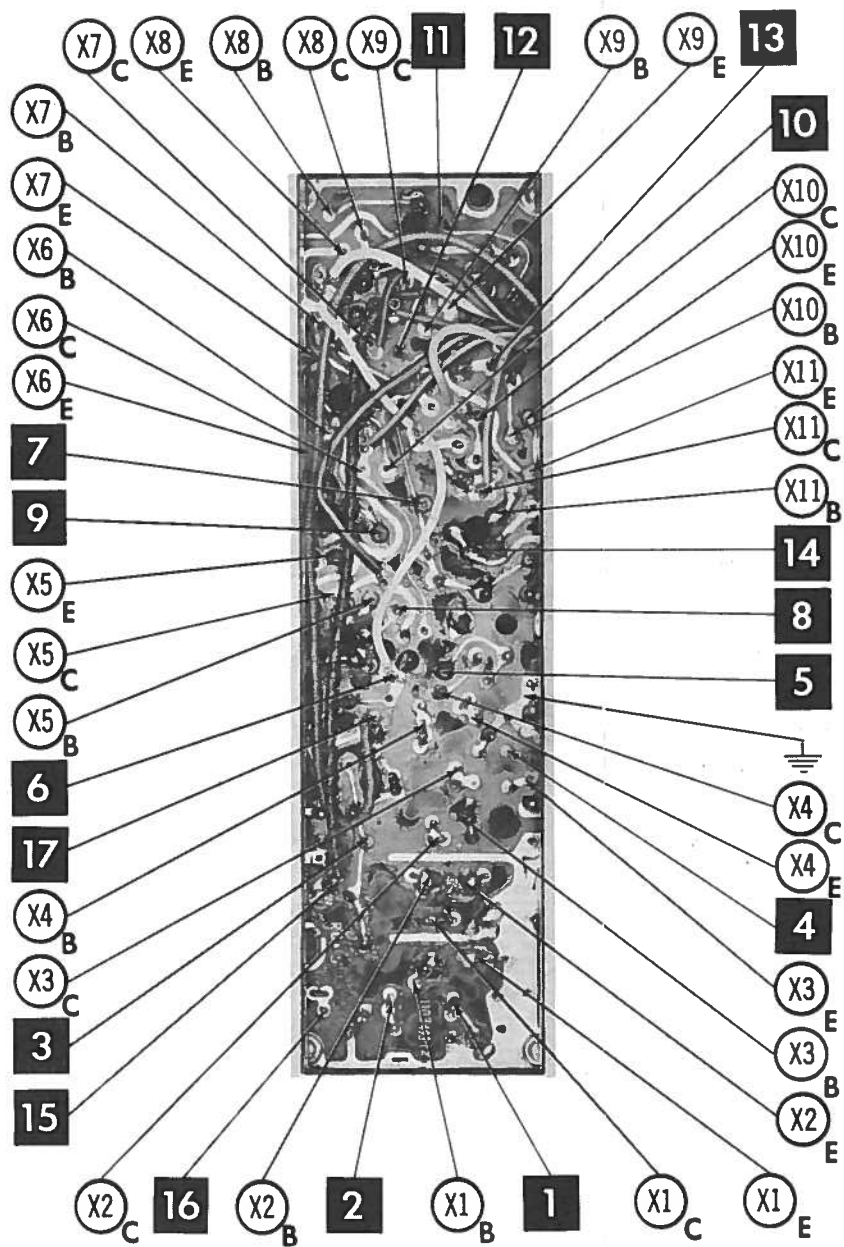
REMOTE CONTROL RECEIVER CTP10A, TRANSMITTER CRK6A



A Howard W. Sams **CIRCUITRACE** Photo



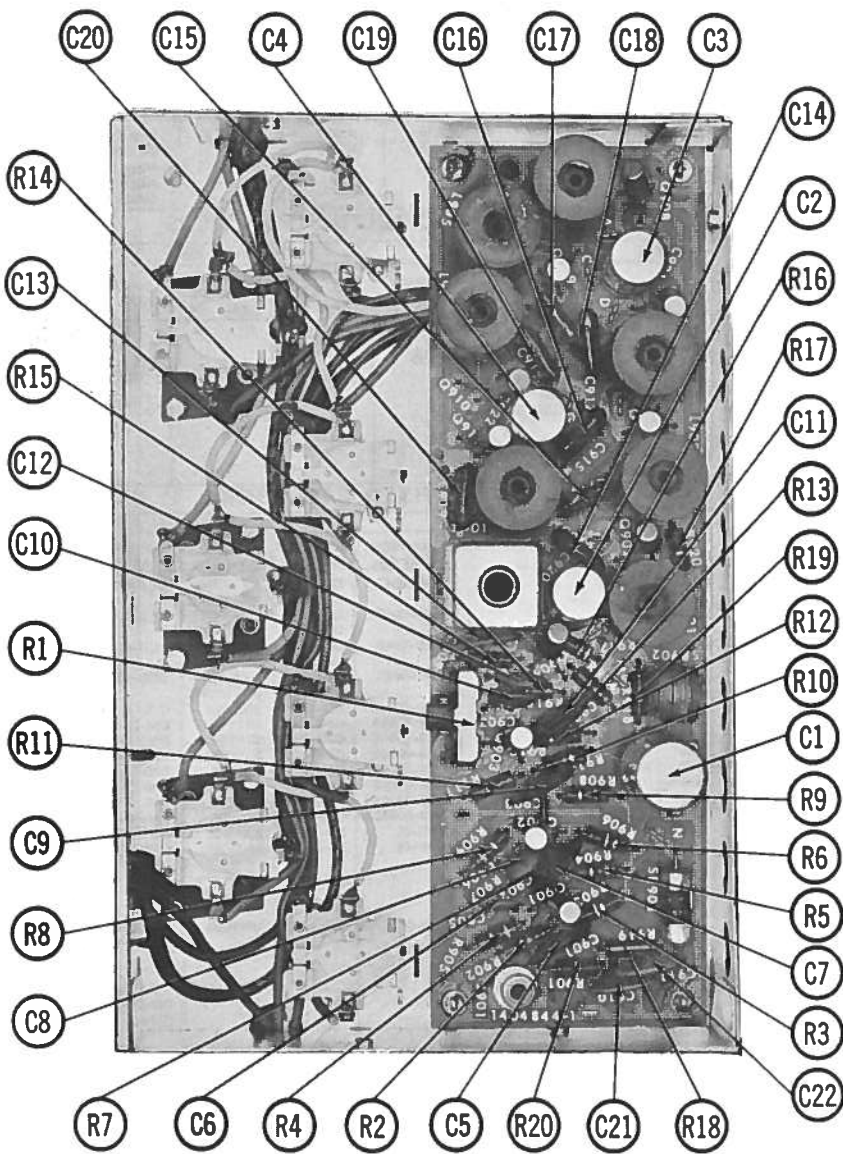
TRANSMITTER



B-BASE

C-COLLECTOR

E-EMITTER



RECEIVER