

PHOTOFACT® Folder

with CIRCUITRACE®



RCA VICTOR CHASSIS CTC16XA,
XAB, XAC, XH, XL, XM, XN, XP

RCA VICTOR CHASSIS CTC16XA, XAB, XAC, XH, XL, XM, XN, XP

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 CTP10F, G;
Transmitter CRK6A ... SET 818, FOLDER 2-A

AM-FM Radio Chassis RC-1223A ... SET 818, FOLDER 7

Power Amp Chassis RS-215B SET 818, FOLDER 8

Power Supply Chassis RK-314B SET 818, FOLDER 9

MODEL GG589WR

TRADE NAME	RCA Victor Model	TV Chassis	RCA Victor Model	TV Chassis	Remote Chassis
FG545B	CTC16XA	FG551MR, WR	.....	CTC16XP ... CRK6A/CTP10G
FG551E, M, W, Y	CTC16XH	GG589MR, WR	.....	CTC16XM ...
GG557M, W	CTC16XL	GG607MR, WR	.....	" "
GG583M, W, Y	"	GG631MR, WR	.....	" "
GG589M, W, Y	"	GG643WR	.....	" "
GG601M, W	"	GG649LR	.....	" "
GG605M, Y	"	GG661MR, WR	.....	" "
GG607M, W	"	GG667CR, FR	.....	" "
GG631M, W	"	GG715MR, WR	.....	" "
GG634M, W	"	GG721WR	.....	" "
GG637M, W	"	GG727LR	.....	" "
GG643W	"	GG733CR, FR	.....	" "
GG649L	"	GG739SR	.....	" "
GG654L	"	GG745ER	.....	" "
GG661M, W, Y	"			
GG667C, F	"			Radio Ch. Amp. Ch.
GG679M, W	"	HG755M, W	.....	CTC16XAB RC-1223A RS-215A
GG681L	"	HG759M, W	.....	" RC-1223B RS-215B
GG715M, W	"	HG761W	.....	" " " "
GG721W	"	* HG761WR	.....	CTC16XAC " " "
GG727L	"	HG765L	.....	CTC16XAB " " "
GG733C, F, Y	"	* HG765LR	.....	CTC16XAC " " "
GG739S	"			
GG745E	"			
JG567W	CTC16XN			

* Remote Chassis CRK6A/CTP10F also.
NOTE: All HG Series use Power Chassis RK-314B.

SUPPLIER For current address, see Annual Index.
TYPE SET Color Television Receiver
TUBES VHF: Twenty-Seven, UHF: One Transistor
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 330 Watts, 3.25 Amps. @ 117 Volts AC

RCA VICTOR CHASSIS CTC16XA,
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SERVICING IN THE FIELD

<p>SAFETY GLASS</p> <p>The safety glass is an integral part of the picture tube.</p> <p>FUSE OR FUSE DEVICE</p> <p>A 3" length of fuse wire is used for filament protection. (For location, see F2 in photo "Chassis - Bottom View".)</p> <p>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.)</p> <p>VHF OSCILLATOR ADJUSTMENT</p> <p>The Fine Tuning mechanically engages oscillator slug for adjustment (one slug for each channel).</p>	<p>AGC</p> <p>The AGC may be varied by means of an AGC control. (See "Tube Placement Chart" for location.)</p> <p>HORIZONTAL OSCILLATOR FIELD ADJUSTMENT</p> <p>Coarse adjustment of the horizontal hold is accomplished by the proper setting of the Horizontal Frequency Waveform coil. (See "Tube Placement Chart" for location.)</p> <p>FOCUS</p> <p>The focus may be varied by means of a Focus coil. (See "Tube Placement Chart" for location.)</p> <p>CENTERING</p> <p>Centering is accomplished by 2 controls, Vertical and Horizontal centering, located on "Chassis - Rear View" photo.</p>
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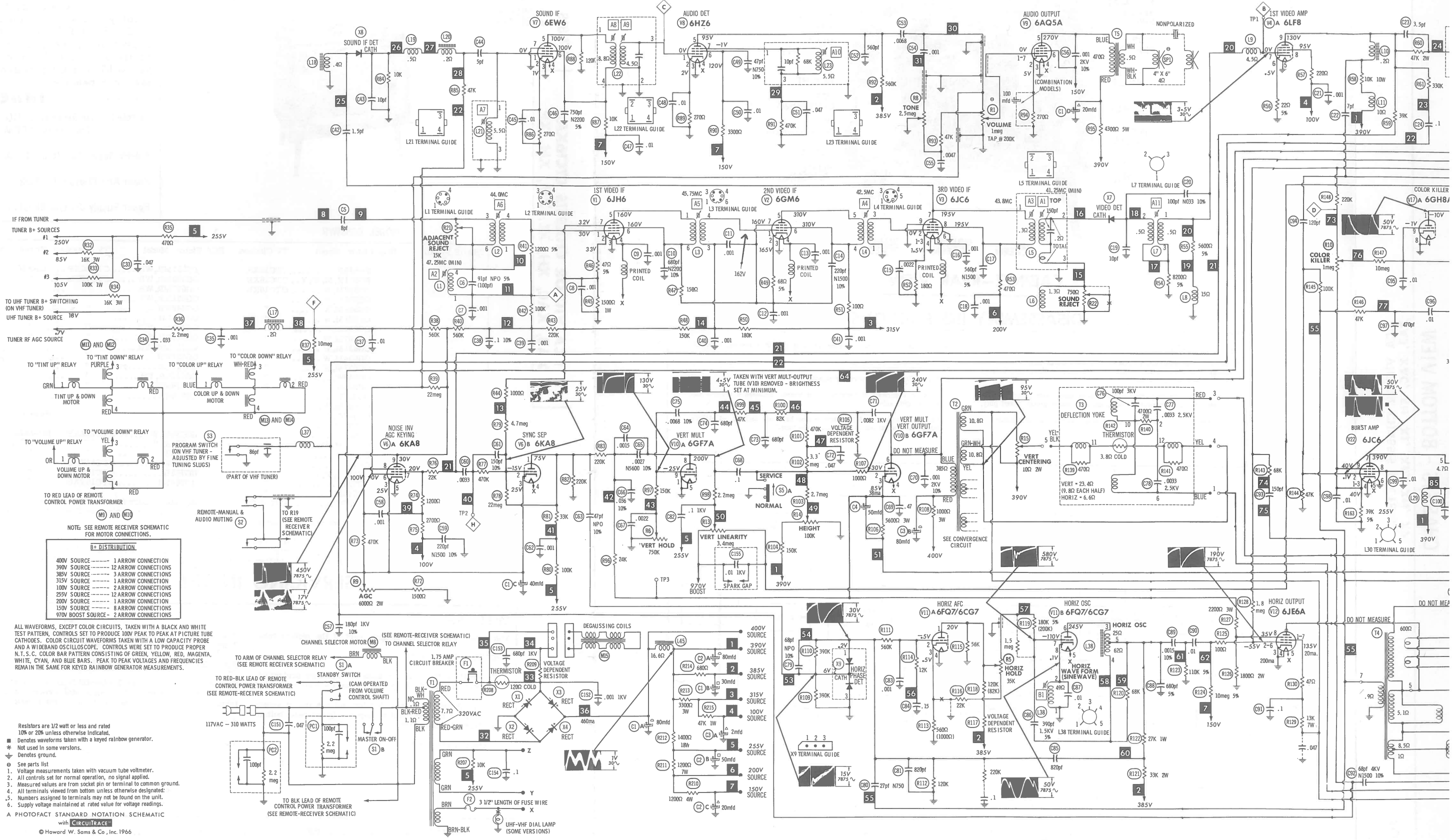
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. NB654

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DATE 6-66 SET 818 FOLDER 2





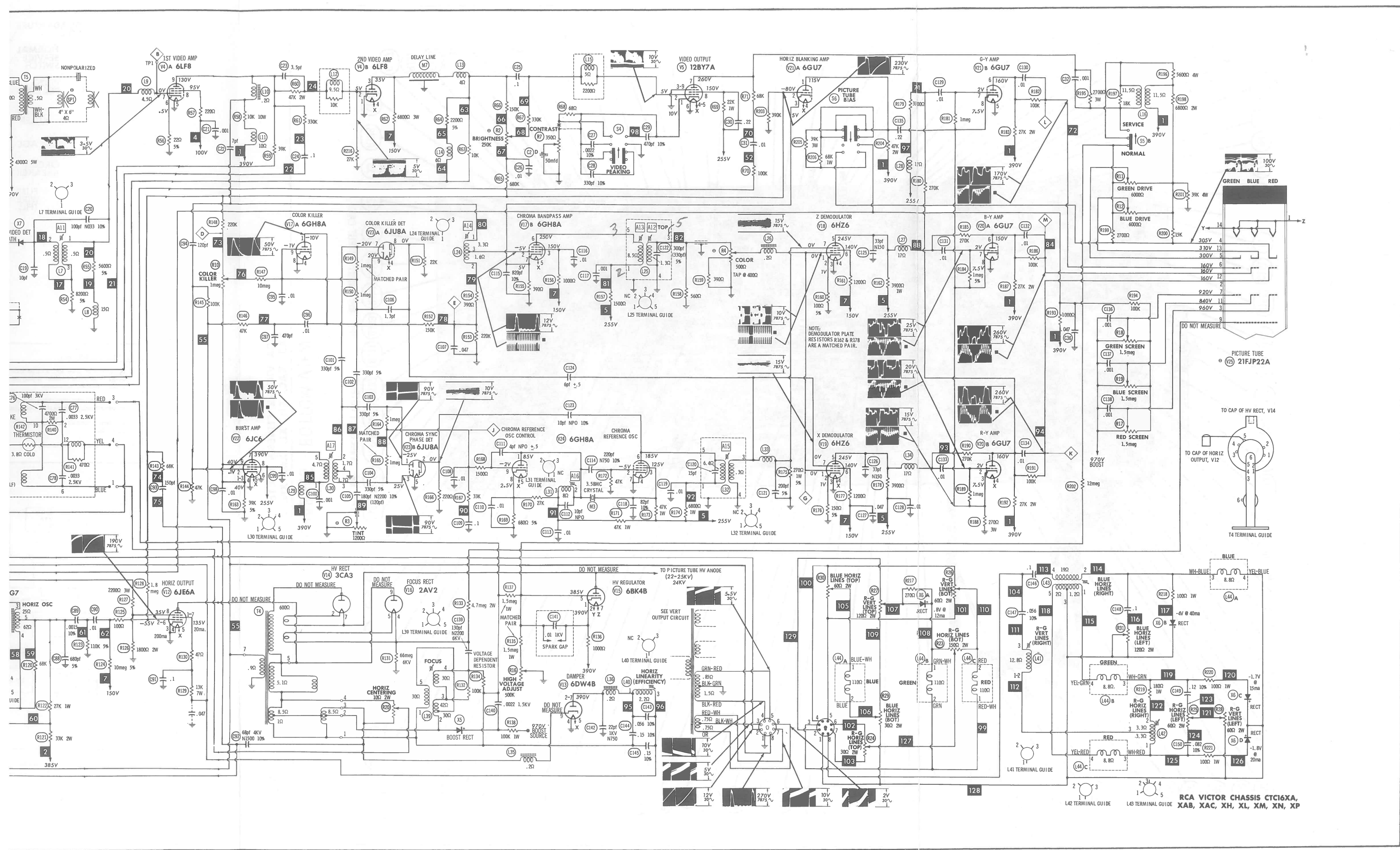
+ DISTRIBUTION

400V SOURCE	1 ARROW CONNECTION
390V SOURCE	12 ARROW CONNECTIONS
385V SOURCE	3 ARROW CONNECTIONS
315V SOURCE	1 ARROW CONNECTION
100V SOURCE	2 ARROW CONNECTIONS
255V SOURCE	12 ARROW CONNECTIONS
200V SOURCE	1 ARROW CONNECTION
150V SOURCE	8 ARROW CONNECTIONS
970V BOOST SOURCE	2 ARROW CONNECTIONS

ALL WAVEFORMS, EXCEPT COLOR CIRCUITS, TAKEN WITH A BLACK AND WHITE TEST PATTERN. CONTROLS SET TO PRODUCE 100V PEAK TO PEAK AT PICTURE TUBE CATHODES. COLOR CIRCUIT WAVEFORMS TAKEN WITH A LOW CAPACITY PROBE AND A WIDEBAND OSCILLOSCOPE. CONTROLS WERE SET TO PRODUCE PROPER N.T.S.C. COLOR BAR PATTERN CONSISTING OF GREEN, YELLOW, RED, MAGENTA, WHITE, CYAN, AND BLUE BARS. PEAK TO PEAK VOLTAGES AND FREQUENCIES REMAIN THE SAME FOR KEYED RAINBOW GENERATOR MEASUREMENTS.

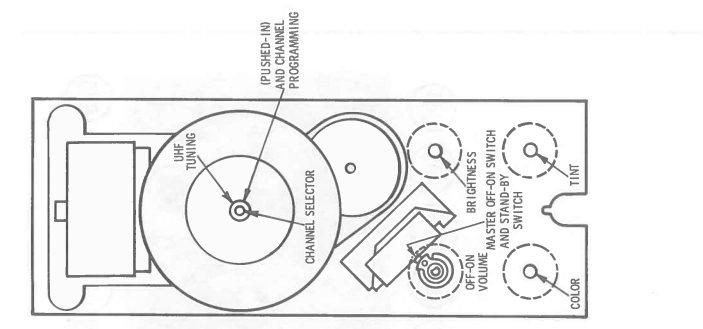
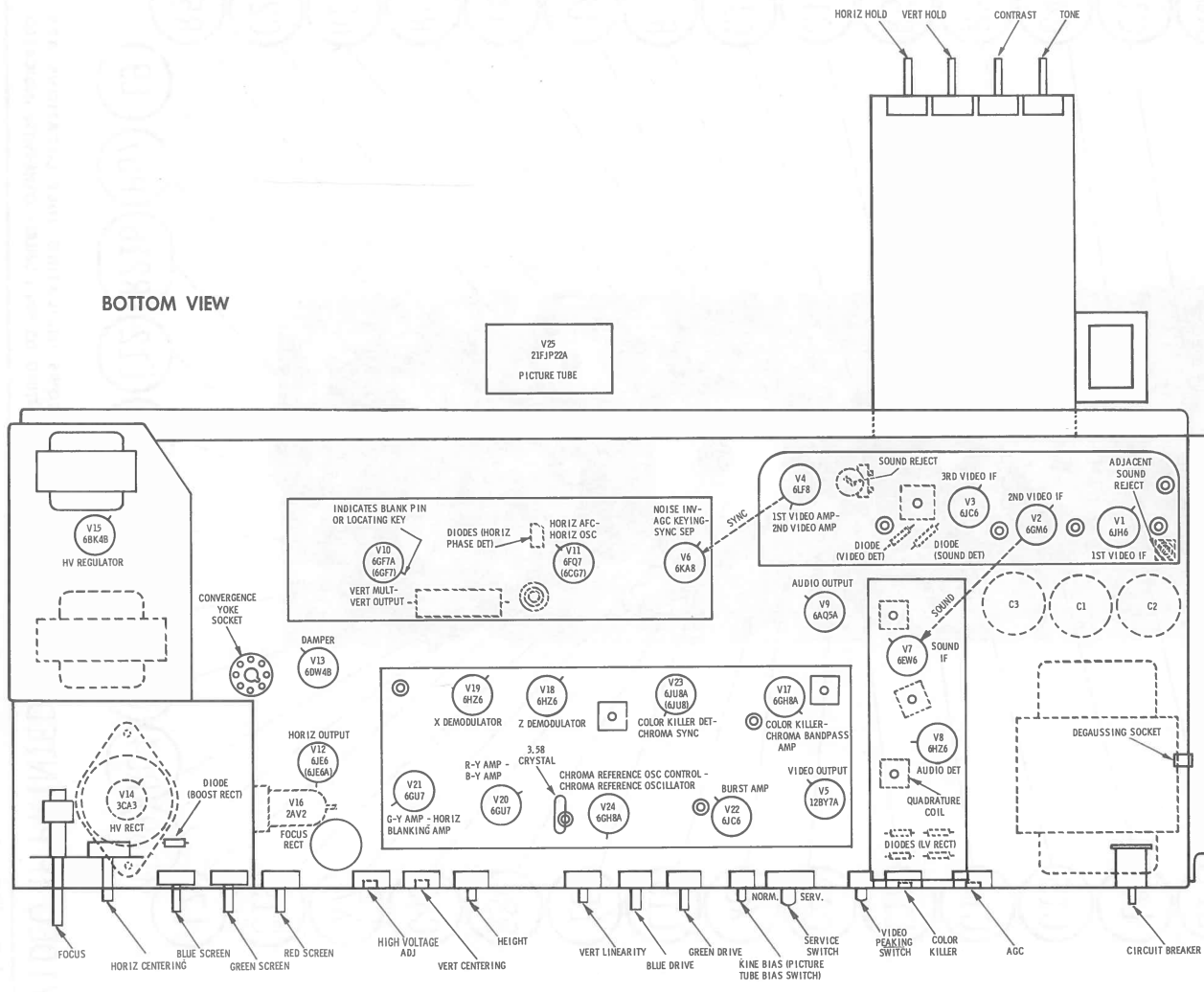
- Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated.
- Denotes waveforms taken with a keyed rainbow generator.
- * Not used in some versions.
- Denotes ground.
- See parts list
- 1. Voltage measurements taken with vacuum tube voltmeter.
- 2. All controls set for normal operation, 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.

A. PHOTOFACT STANDARD NOTATION SCHEMATIC with **CircuitTrace**
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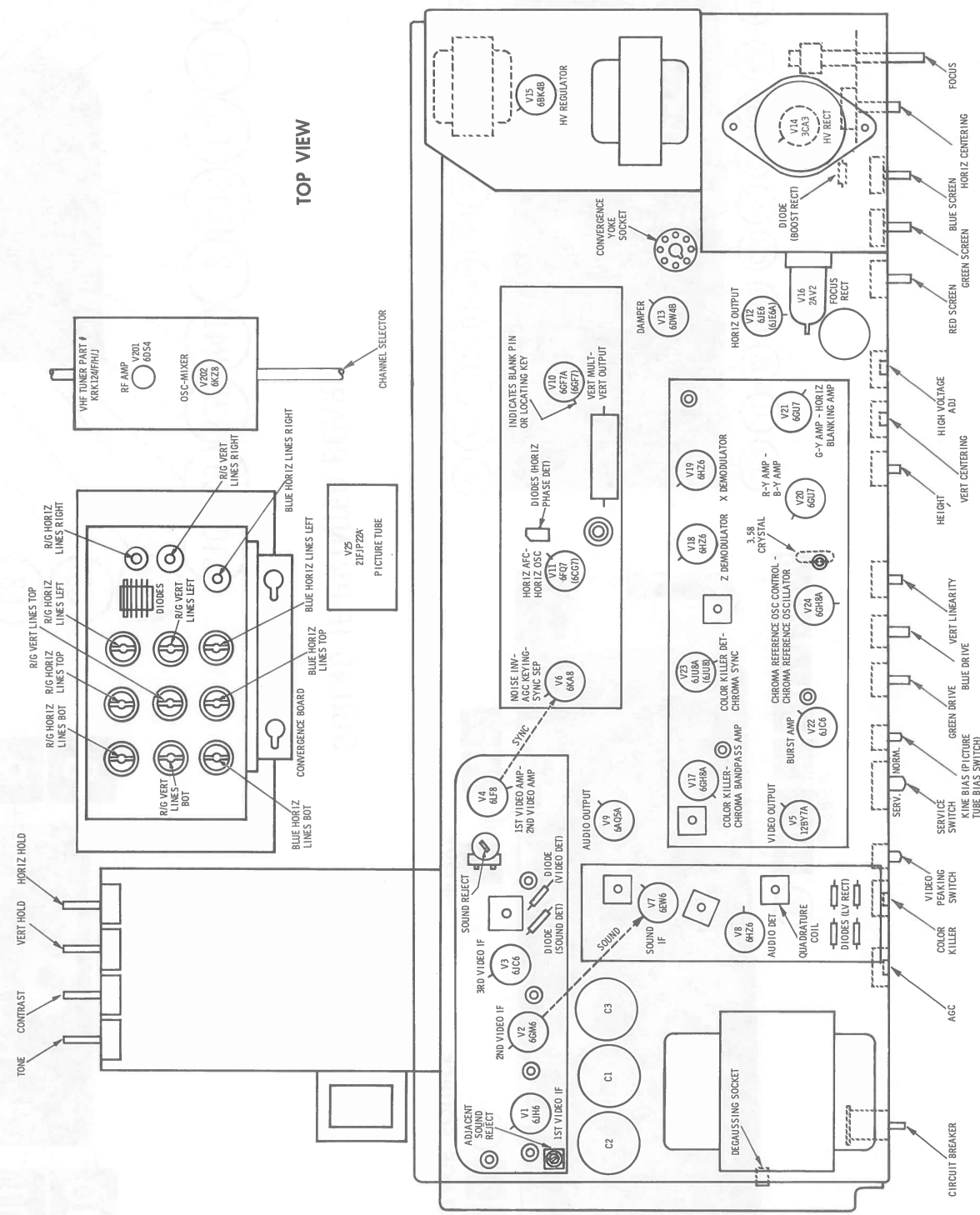


RCA VICTOR CHASSIS CTC16XA, XAB, XAC, XH, XL, XM, XN, XP

TUBE PLACEMENT CHART



TUBE PLACEMENT CHART



CABINETS & CABINET PARTS (When Ordering Specify Model, Chassis & Color)

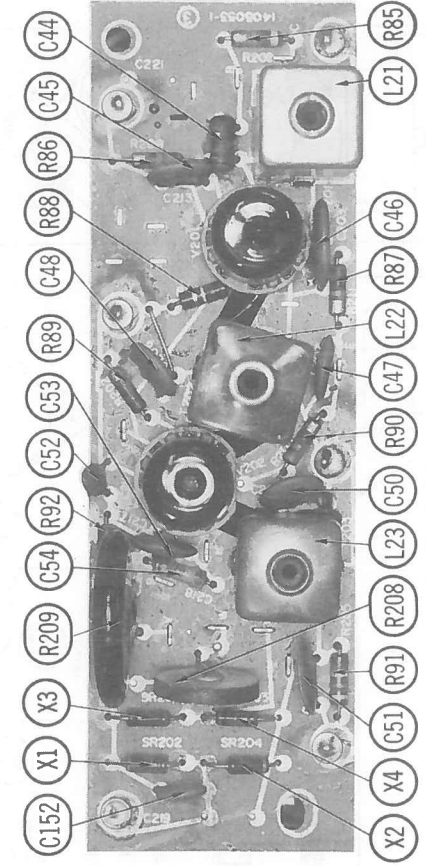
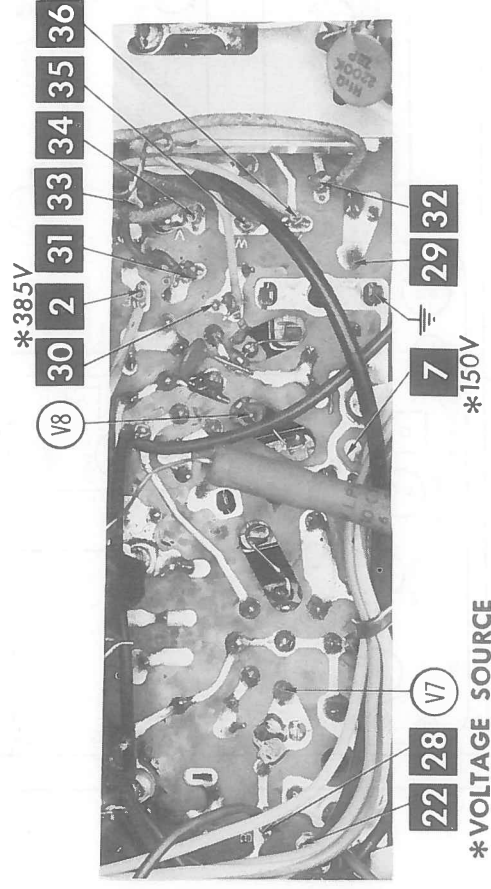
KNOB	MODELS	PART No.	MASK	MODELS	PART No.
VHF Channel selector	FG545B, FG551M, MR, W, WR, Y	114895	Picture Tube	FG545B, FG551M, W, Y	114879
"	FG551E	114894	"	FG551E	114880
"	All GG & HG Series	114873	"	GG557M, W, GG683M, W, Y, GG687M, W, GG643W, GG681M, W, Y	114890
"	JG567W	115905	"	FG551MR, WR	114891
VHF Fine Tuning	FG545B, FG551M, MR, W, WR, Y	114900	"	GG589M, W, Y, GG649L, GG654L, GG687C, F	115516
"	FG551E	114899	"	GG589MR, WR, GG649LR, GG687CR, FR	115774
UHF Channel Selector	FG545B, FG551M, MR, W, WR, Y	114897	"	GG601M, W, GG605M, W, GG607M, W, GG631M, W, GG634M, W	114991
"	FG551E	114896	"	GG607MR, WR, GG631MR, WR	115777
UHF Channel Selector, VHF Fine Tuning	All GG & HG Series	114898	"	GG643WR, GG661MR, WR	115776
"	JG567W	114900	"	GG679M, W, GG681L, GG715M, W, GG721W, GG727L, GG733C, F, Y, GG739S, GG745E	115517
Volume, Brightness	FG545B, FG551M, MR, W, WR, Y	113853	"	GG715MR, WR, GG721WR, GG727LR, GG733CR, FR	115775
"	FG551E	114033	"	All HG Series	116070
"	All GG & HG Series, and JG567W	114875	"	JG567W	115860
Color	FG545B, FG551M, MR, W, WR, Y	113906	"	All FG Series	114369
"	FG551E	114040			
"	All GG & HG Series and JG567W	114892			
Tint	FG545B, FG551M, MR, W, WR, Y	113907			
"	FG551E	114041			
"	All GG & HG Series, and JG567W	114893			
Contrast, Tone, Horiz. & Vert. Hold	FG545B, FG551M, MR, W, WR, Y	114874			
"	All GG & HG Series, FG551E	114032			
"	FG551E	115536			
"	JG567W	115687			
AM-FM Tuning	HG755M/W	115689			
"	All other HG Series	115689			
Bass, Balance, Function Selector, Loudness, Treble	HG755M/W	115688			
"	All other HG Series	115670			

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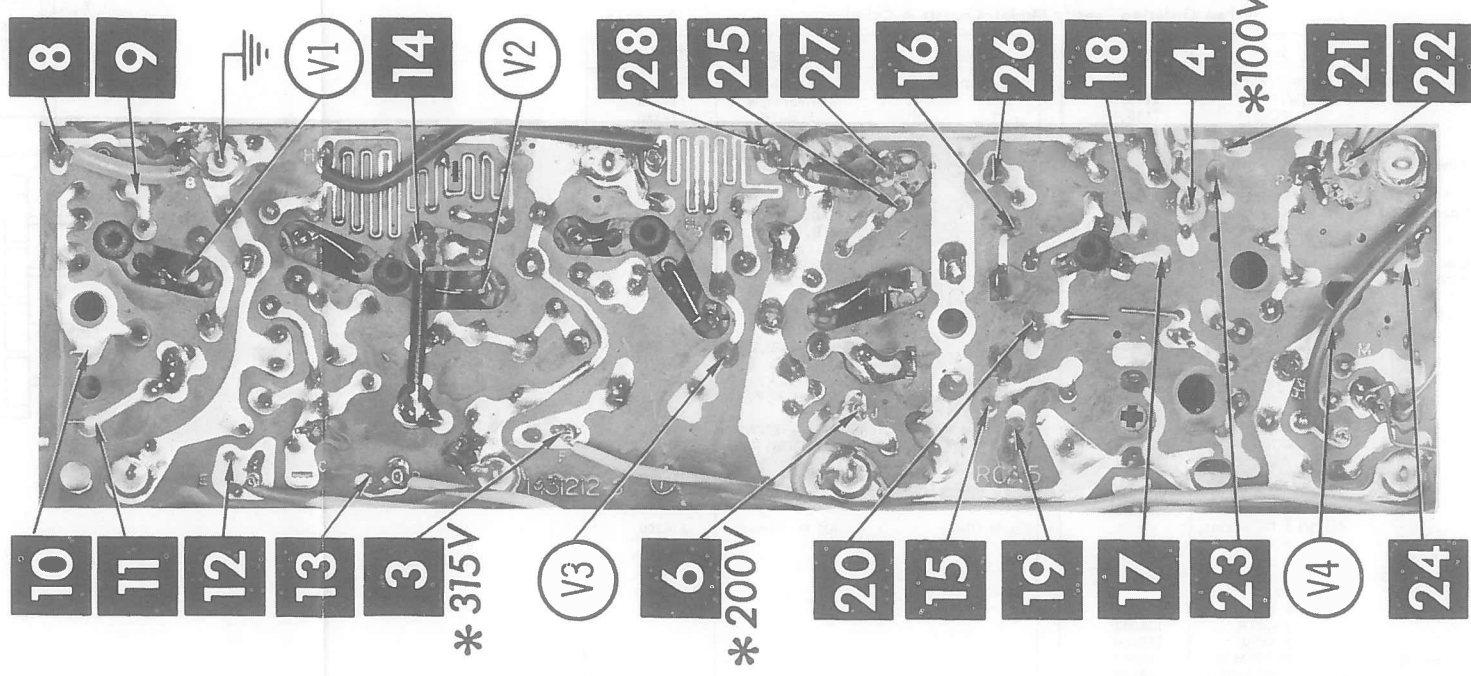
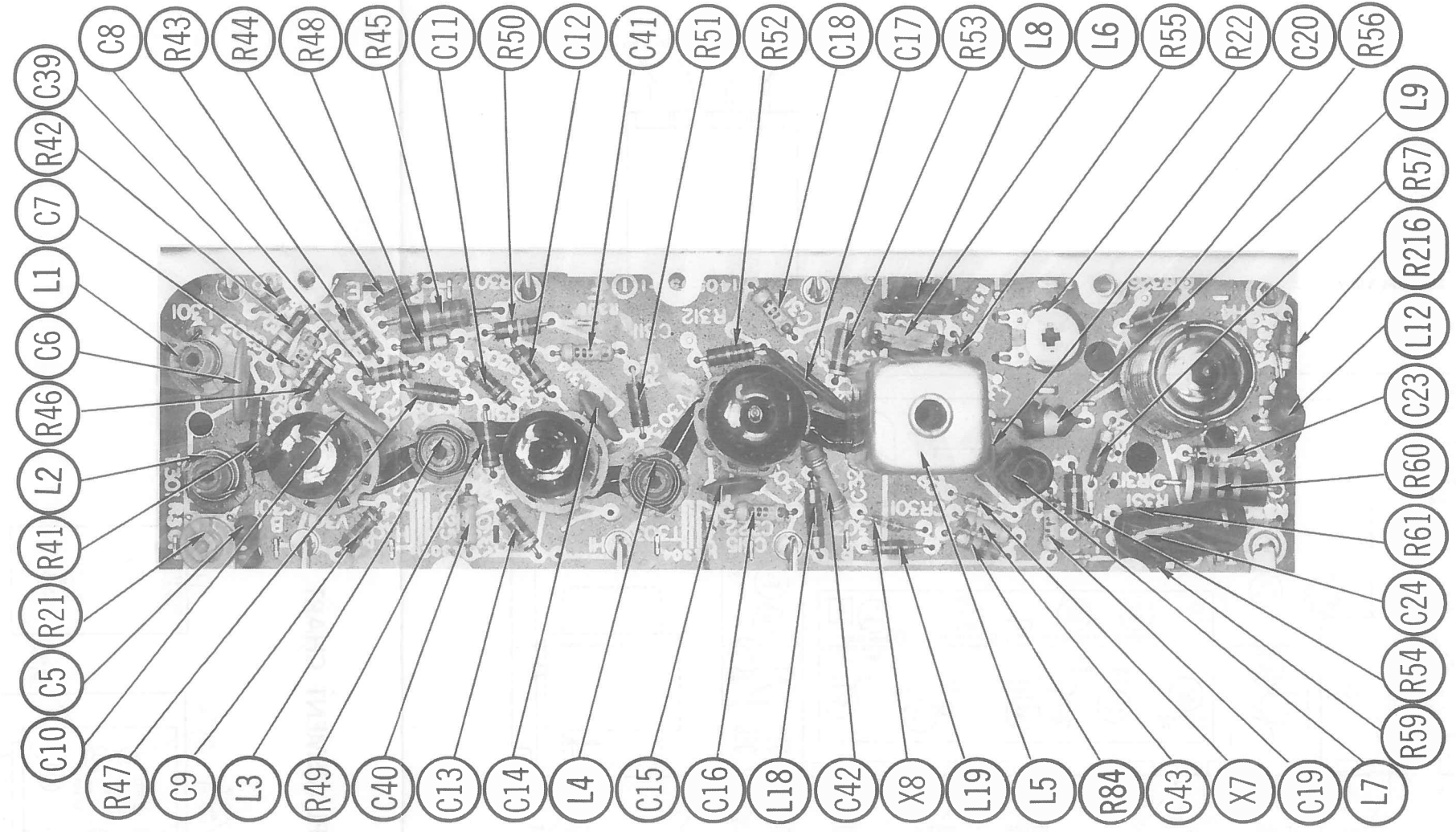
FOLDER 2

SET 818 FOLDER 2

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



SOUND IF PRINTED BOARD

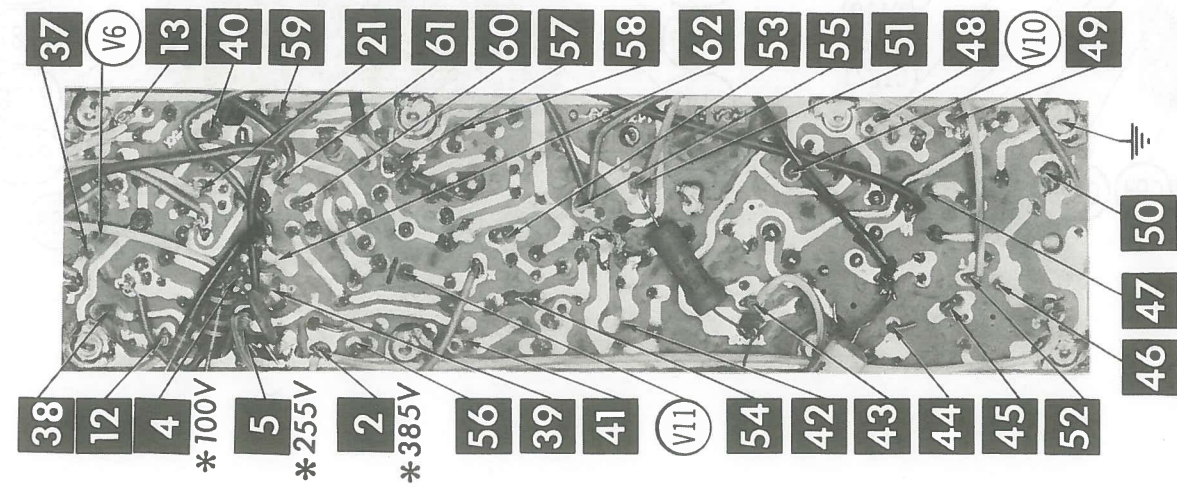
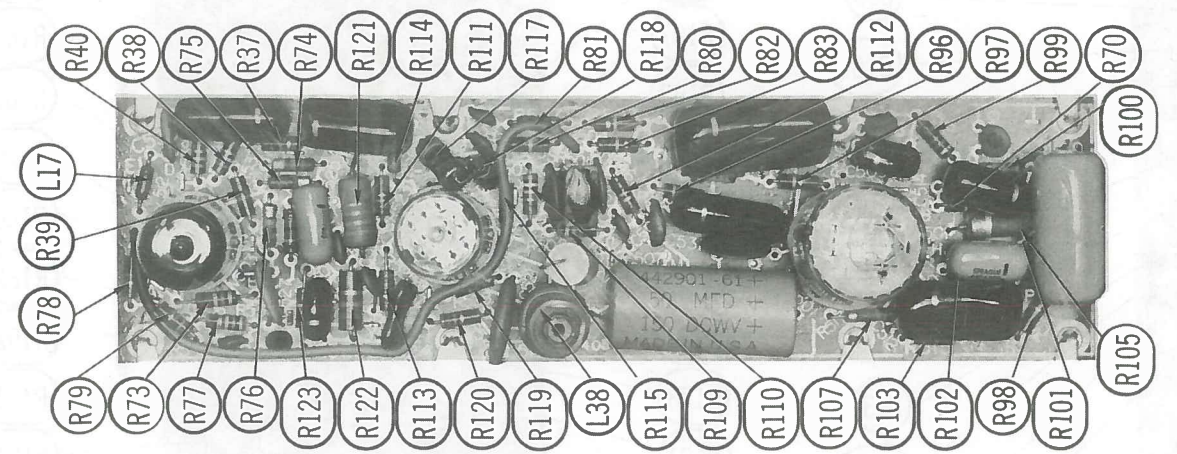
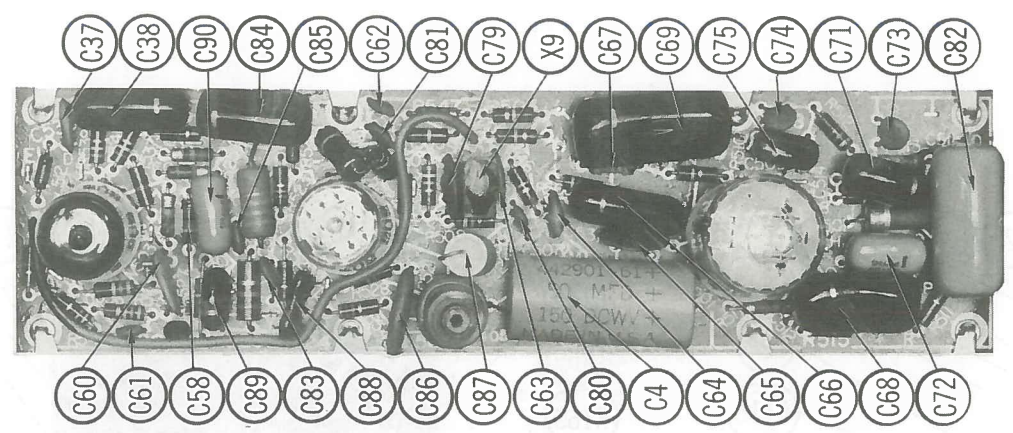


VIDEO IF PRINTED BOARD

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

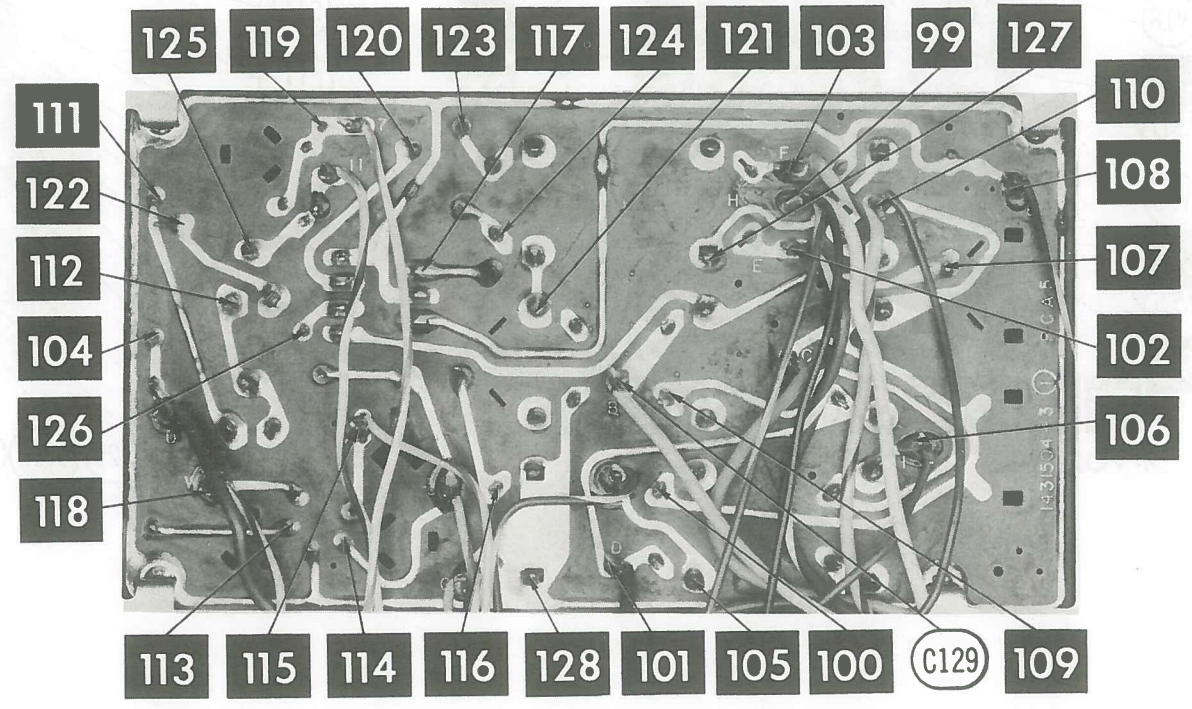
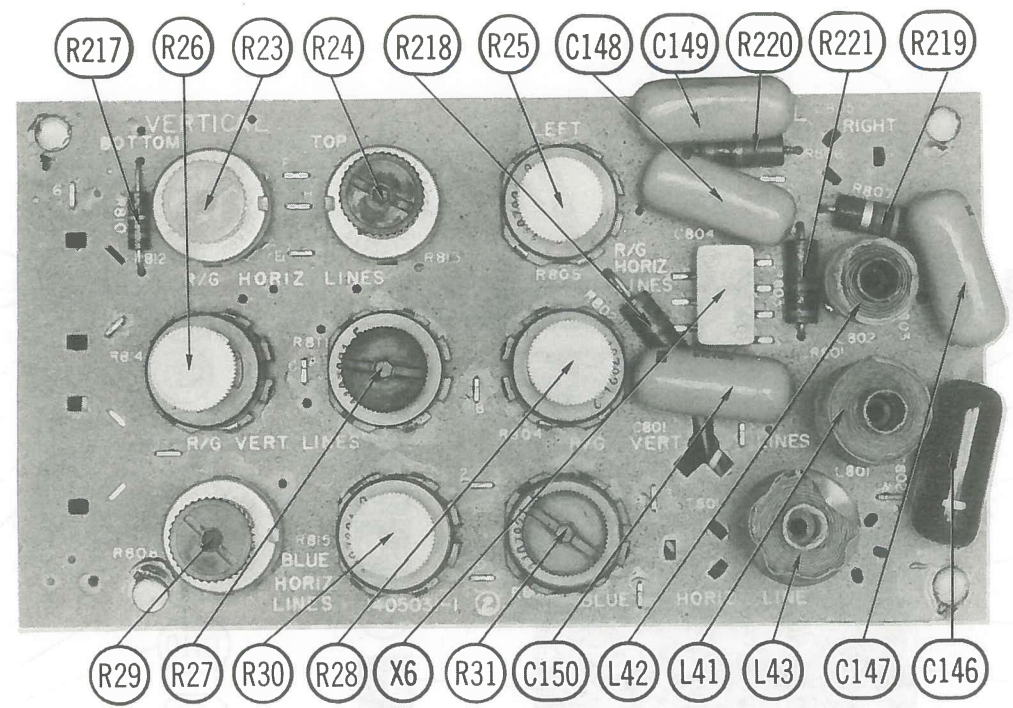
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ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



SWEEP PRINTED BOARD

*VOLTAGE SOURCE

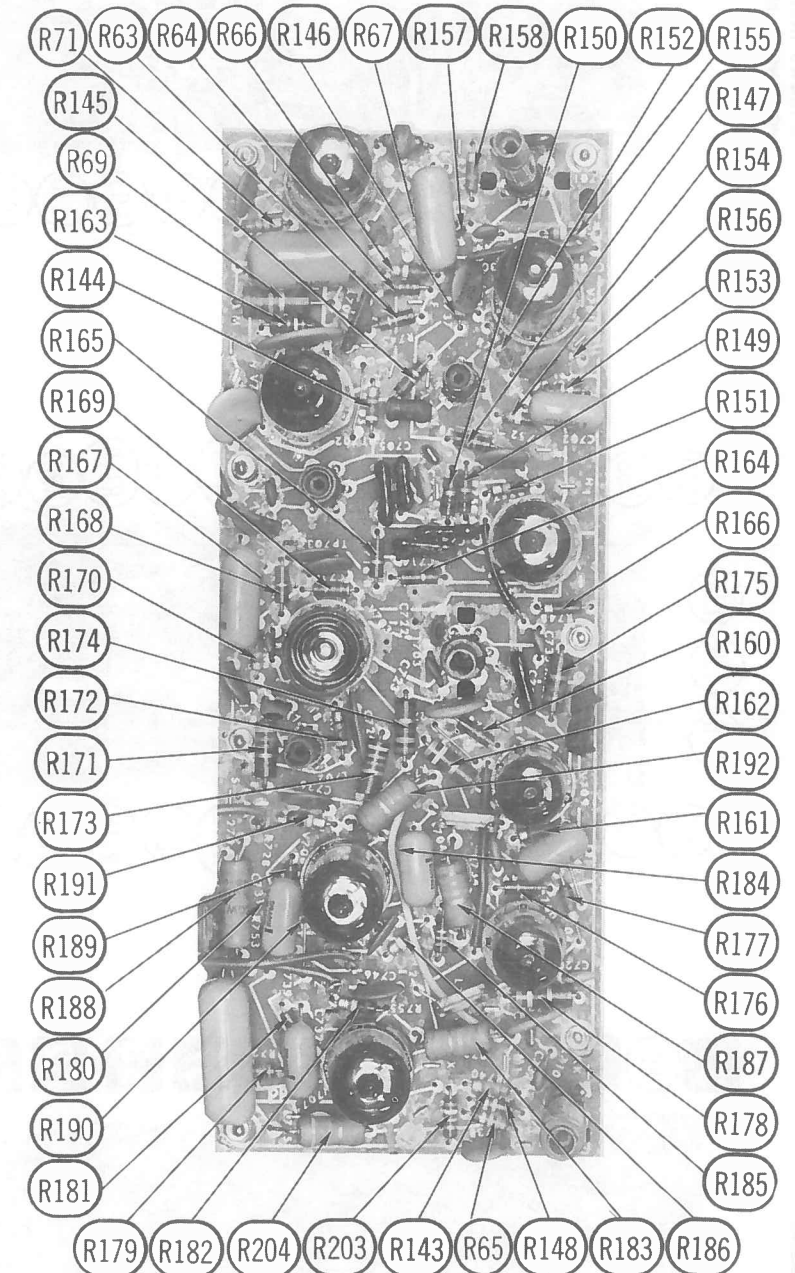
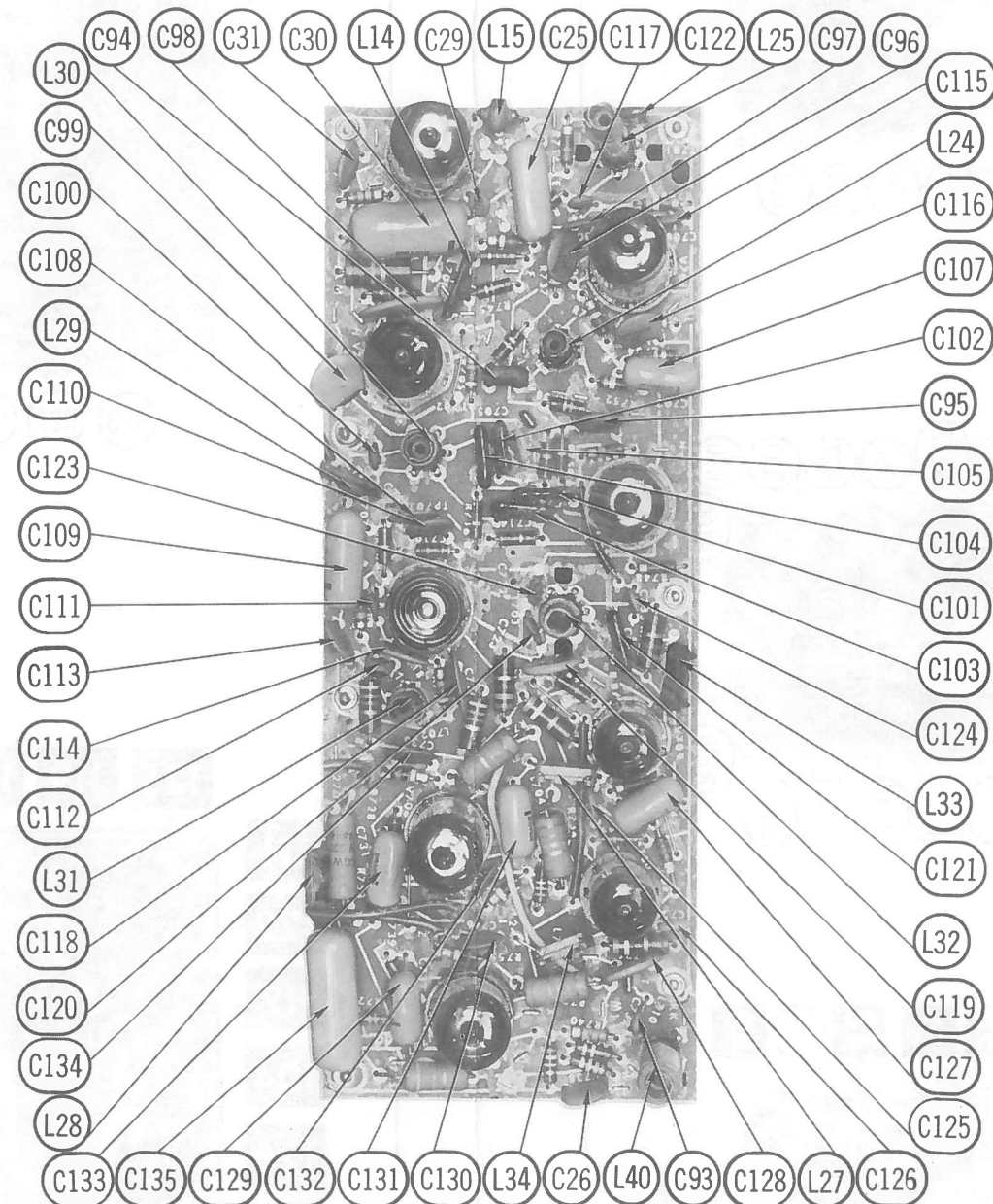
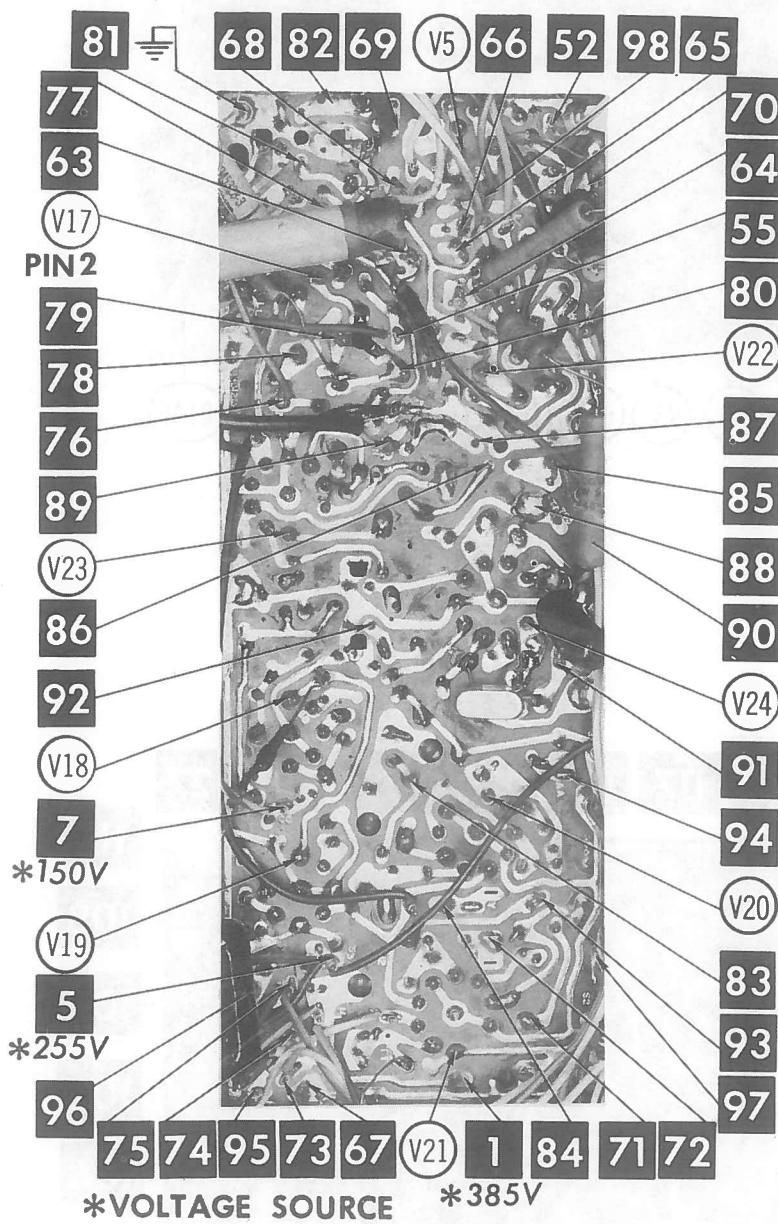


CONVERGENCE PRINTED BOARD

A Howard W. Sams CIRCUITRACE Photo

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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	
V1	6JH6	340K	1500Ω	0Ω	FIL	▲218Ω	▲218Ω	1500Ω						
V2	6GM6	80K	1N	FIL	0Ω	†3300Ω	†3300Ω	▲68Ω						
V3	6JC6	180Ω	0Ω	180Ω	FIL	0Ω	0Ω	†3000Ω	†3000Ω	0Ω				
V4	6LF8	0Ω	20K	†7000Ω	FIL	0Ω	22Ω	130Ω	†35K	†10K				
V5	12BY7A	400Ω	600K	0Ω	0Ω	0Ω	FIL	†6500Ω	†23K	0Ω				
V6	6KA8	†60K	4.7meg	2200Ω	0Ω	FIL	50K	550K	†33K	700K				
V7	6EW6	3Ω	270Ω	0Ω	FIL	†13K	†13K	0Ω						
V8	6HZ6	2.5Ω	270Ω	FIL	0Ω	†560K	†7000Ω	470K						
V9	6AQ5A	300K	270Ω	FIL	0Ω	†5000Ω	†3800Ω	300K						
V10	6GF7A	0Ω	2.7meg	2400Ω	0Ω	FIL	†1400Ω	NC	†7meg	320K				
V11	6FQ7/6CG7	†33K	1.2meg	550Ω	FIL	0Ω	†60K	220K	46Ω	0Ω				
V12	6JE6	†3300Ω	1.8meg	0Ω	0Ω	FIL	1.8meg	†1300Ω	1600Ω	NC	Top Cap †10Ω			
V13	6DW4B	NC	†25Ω	NC	FIL	0Ω	NC	†25Ω	NC	3meg				
V14	3CA3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE									Top Cap †600Ω			
V15	6BK4	†1000Ω	FIL	NC	NC	†1.5meg	NC	FIL	NC	Top Cap 1N				
V16	2AV2	NC	NC	NC	66meg	66meg	NC	NC	NC	†10.5Ω				
V17	6GH8	360K	220K	†4800Ω	FIL	0Ω	†2900Ω	390Ω	0Ω	10meg				
V18	6HZ6	65Ω	100Ω	FIL	0Ω	†5300Ω	†5000Ω	1Ω						
V19	6HZ6	65Ω	150Ω	0Ω	FIL	†5300Ω	†5000Ω	.3Ω						
V20	6GU7	†27K	1meg	270Ω	0Ω	FIL	†27K	1meg	270Ω	0Ω				
V21	6GU7	†48K	250K	390Ω	FIL	0Ω	†27K	1meg	270Ω	0Ω				
V22	6JC6	39K	34K	39K	FIL	0Ω	†25Ω	†1400Ω	39K					
V23	6JU8	1N	230Ω	1N	0Ω	FIL	0Ω	11meg	22K	11meg				
V24	6GH8	†24K	47K	†48K	FIL	0Ω	†8000Ω	0Ω	680Ω	1N				
V25	21FJP22	FIL	†125K	†500K	†5500Ω	†3600Ω	†125K	†550K	NC	70meg	NC	†600K	†125K	
												Pin 13 †4600Ω	PIN 14 FIL	
V201	6DS4	NC	†19K	NC	3.7meg	NC	NC	NC	0Ω	NC	FIL	NC	FIL	
V202	6KZ8	†8600Ω	390K	0Ω	FIL	0Ω	†105K	†104K	†105K	†107K				

† MEASURED FROM OUTPUT OF X3 & X4 (LV RECTIFIER)

● READING DEPENDS ON POLARITY OF METER CONNECTIONS.

‡ MEASURED FROM PIN 9 OF V13

NC, NO CONNECTION

▲ MEASURED FROM PIN 2 OF V2

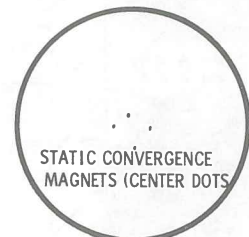


FIG. A

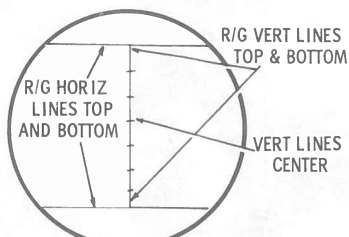


FIG. B
(RED & GREEN ONLY)

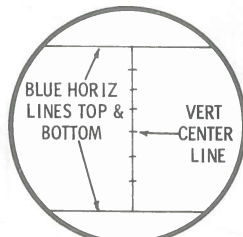


FIG. C
(BLUE BARS)

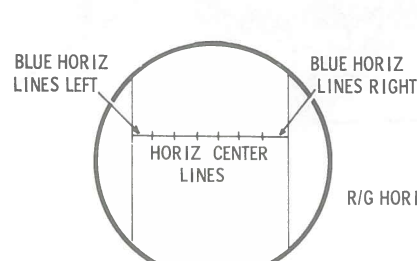


FIG. D
(BLUE BARS)

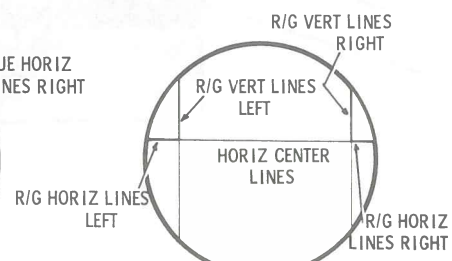


FIG. E

MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect:

A 0-500 ma meter in series with cathode lead of horizontal output tube. A .47 mfd capacitor across meter. A VTVM through 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 210 ma).

Adjust the High Voltage control for 24KV on picture tube anode with normal brightness. Check voltage drop across R136 with VOM. The MINIMUM acceptable voltage drop should not be less than .85 volts with the acceptable range between 1.0 and 1.4 volts. Horizontal Linearity (Efficiency) coil may be adjusted ½ turn clockwise if voltage drop is less than .85 volts. The Horizontal Output Tube current must not exceed 210 ma under these conditions.

If foldover occurs in picture, adjust Horizontal Linearity clockwise to eliminate foldover while checking to make sure horizontal output current does not exceed 210 ma.

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 Color Killer control to fully counterclockwise. Set the Tint control to the center of its range.

Connect a color bar generator to the antenna terminals. Adjust the receiver for normal color reception. Short pin 1 of Burst Amp., V22, to ground.

Connect DC probe of VTVM through 470K to pin 1 of Phase Detector, V23. 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 Color Killer 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.

If TV is equipped with an automatic degaussing coil, degaussing occurs between the time the receiver is turned on and before the high voltage appears. Shunt points Ⓢ and Ⓢ 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 possible "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	Red and Green Vertical bars at top of screen.	Touch up both controls for best convergence from top to bottom along Vertical center line (Fig. B).
3.	R-G Vert. Lines, Bottom	Red and Green Vertical bars at bottom of screen.	
4.	R-G Horiz. Lines, Top	Red and Green Horizontal bars at top of screen.	Touch up both controls for best convergence of horizontal bars along Vertical center line (Fig. B).
5.	R-G Horiz. Lines, Bottom	Red and Green Horizontal bars at bottom of screen.	
6.	Blue Horiz. Lines, Top	Blue Horizontal bars at top of screen.	Touch up both controls for best convergence of horizontal bars along Vertical center line (Fig. C).
7.	Blue Horiz. Lines, Bottom	Blue Horizontal bars at bottom of screen.	
8.			Perform Center Dot Static Convergence (Fig. A).
9.	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).
10.	Blue Horiz. Lines, Left	Blue Horizontal bars at left side of screen.	
11.	R-G Vert. Lines, Right	Red and Green Vertical lines at right side of screen.	(Fig. E)
12.	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).
13.	R-G Vert. Lines, Left	Red and Green Vertical bars at left side of screen.	(Fig. E)
14.	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).

FIGS. A, B, C, D, E ON PAGE 18

SET 818 FOLDER 2

RCA VICTOR CHASSIS CT616XA,
XAB, XAC, XH, XL, XM, XN, XP

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 A11..... GENERAL CEMENT #8606, 8869, 9302 ... WALSCO #2511, 2543, 2588
 Mixer Plate Coil .. GENERAL CEMENT #9296, 9300, 9302 ... WALSCO #2510, 2511, 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 \diamond) 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 high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		41.25MC 47.25MC	A1, R21 A2, R22	Adjust for MINIMUM. Keep cores of L5 (A1) and L1 (A2) at coil end away from board.
2.	Connect high side to ungrounded tube shield over Mixer-Osc. Low side to ground.		43.8MC 42.5MC 45.75MC 44.0MC	A3 A4 A5 A6, Mixer Plate Coil	Adjust for maximum with core nearest printed board end of coil for A3, A4 and A5. Adjust A6 for maximum with core at top end of coil and Mixer Plate Coil with core at bottom of coil.
3.	Connect vertical input of a scope to point \diamond . Low side to ground.	44MC (10MC Sweep)	41.25MC 42.17MC 42.75MC 45.0MC 45.75MC 47.25MC	I1	Adjust for maximum gain and symmetry of response with markers as shown in Figure 1.

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.

SOUND IF ALIGNMENT

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

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 \diamond . Connect a -2 volt supply to point \diamond . Connect a -15 volt supply to point \diamond . Positive of all supplies to ground. Connect a Jumper from point A to ground. Turn Color Intensity to maximum. Remove the Horizontal Output Tube and connect a 2000 Ω , 100W resistor from 405 volt source to ground.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4.	High side thru .1mfd to grid of Bandpass Amp., V17A, low side to ground.	3.58MC (3-5MC Sweep)	3.08MC 4.08MC	Vert. Amp. thru Detector Probe to pin 1 of demodulators point \diamond , 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. (set @ 45.75MC) to picture carrier input. Output of RF Modulator to Mixer Grid Test Point on Tuner low side to ground.	Sweep Gen. to 3MC (6MC Sweep)		"	A14	Adjust for response curve similar to Fig. 3. If necessary, retouch A12 to flatten top of response.

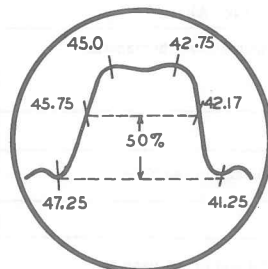


FIG. 1

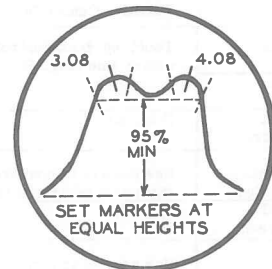


FIG. 2

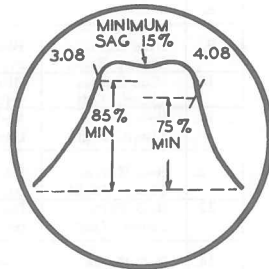
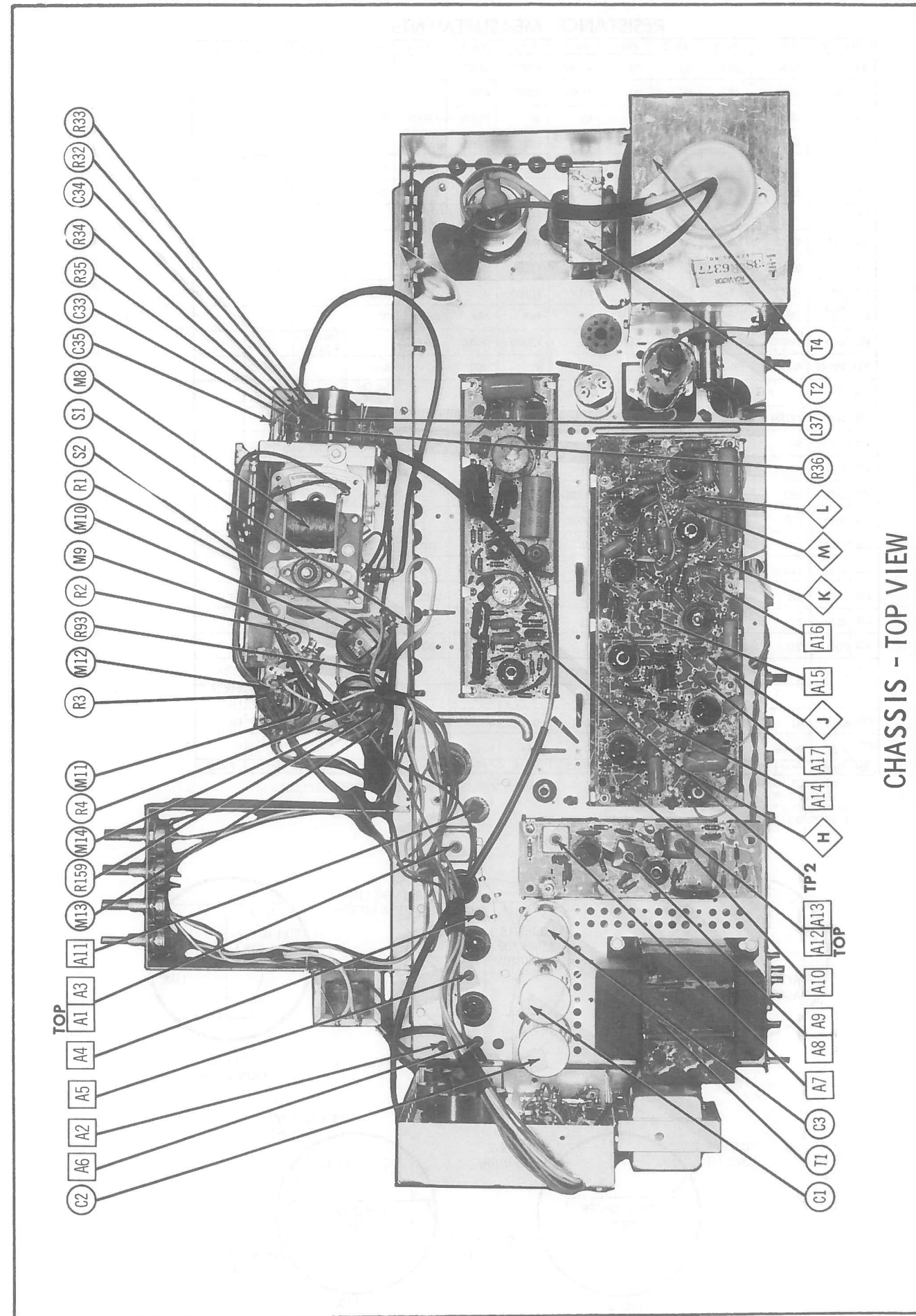


FIG. 3



CHASSIS - TOP VIEW

RCA VICTOR CHASSIS CT16XA,
XAB, XAC, XH, XL, XM, XN, XP

FOLDER 2

VHF TUNER ALIGNMENT INSTRUCTIONS

OSCILLATOR ADJUSTMENTS

The oscillator for each channel is preset by means of the fine tuning control. Adjust fine tuning for best picture and sound on each channel.

RF AND MIXER ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect a variable bias to the 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.	213MC	211.25MC 215.75MC	13	Vert. Input to Point ∇ , low side to ground	Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2.	"	195MC	193.25MC 197.75MC	10	Across Video Det. load resistor.	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3.	"	See Chart	See Chart	12 thru 2	Vert. Input to Point ∇ , low side to ground.	Reduce bias. Check all channels and make compromise adjustments by expanding or compressing appropriate coils if required.

CHANNEL & FREQUENCY CHART

SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	SOUND	VIDEO
57MC	55.25MC 59.75MC	2	85MC	83.25MC 87.75MC	6	195MC	193.25MC 197.75MC	10	<p>FIG. 201</p>	
63MC	61.25MC 65.75MC	3	177MC	175.25MC 179.75MC	7	201MC	199.25MC 203.75MC	11		
69MC	67.25MC 71.75MC	4	183MC	181.25MC 185.75MC	8	207MC	205.25MC 209.75MC	12		
75MC	73.25MC 77.75MC	5	189MC	187.25MC 191.75MC	9	213MC	211.25MC 215.75MC	13		
81MC	79.25MC 83.75MC	6								

UHF TUNER ALIGNMENT INSTRUCTIONS

UHF TUNER KRK120U — Tune to a UHF station and adjust UHF IF Input Coil for best picture and sound.

VHF TUNER PARTS LIST AND DESCRIPTION

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V201	RF Amp.	6DS4	V202	Mixer - Osc.	6KZ8

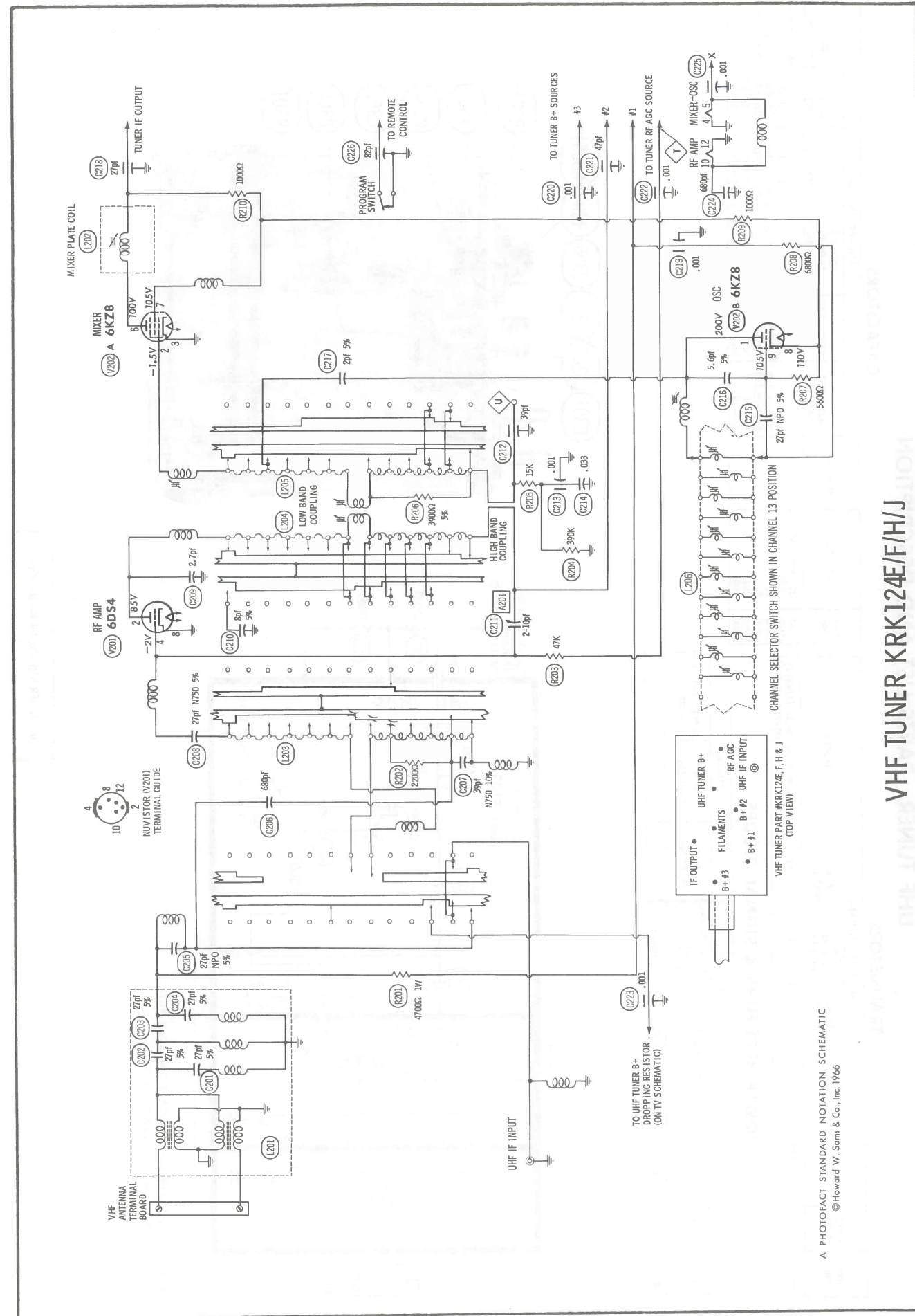
CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOR PART No.	MALLORY PART No.	SPRAGUE PART No.	
C201	27 5%	#112040	TCN-27	TCN-27	BYZ601ZU681P	CCTO-270	CN7427	10TCU-Q27	
C202	27 5%		TCN-27	TCN-27		CCD-681	CN7427	10TCU-Q27	
C203	27 5%		TCN-27	TCN-27		CCTO-390	CN7427	10TCU-Q27	
C204	27 5%		TCN-27	TCN-27		CCTN-270	CN7427	10TCU-Q27	
C205	27 NPO 5%		TCZ-27	TCZ-27		CCTO-3R3	CNO427	10TCC-Q27	
C206	680		BPD-00068	DD-681		B368	CNO427	5GA-T68	
C207	39 N750 10%		NPO-DI 39	DTZ-39		CNO439	CNO439	10TCC-Q39	
C208	27 N750 5%		NPO-DI 3.0	DTN-27		CN7427	CN7427	10TCU-Q27	
C209	2.7		DTZ-3R3	DTZ-3R3		CNO533	CNO533	10TCC-V30	
C210	8 5%		NPO-DI 8.2	829-10		10TCC-V82			
C211	2-10	#114913	EF-001	MFT-1000	CCF-102	CT280A	10TCC-V22		
C212	39		EF-001	MFT-1000	CCF-102	CT280A			
C213	.001		P288N-033	WMF2S33	6DP-3-333	PVC2133		4PS-S33	
C214	.033		TCZ-27	TCZ-27	CCTO-270	CNO427		10TCC-Q27	
C215	27 NPO 5%		NPO-DI 5.0	DTZ-4R7	CCTO-050	CNO547		10TCC-V50	
C216	5.6 5%		NPO-DI 2.2	DTZ-2R2	CCTO-2R2	CNO522		10TCC-V22	
C217	2 5%		EF-001	MFT-1000	CCF-102	CT280A		10TCC-V30	
C218	27		EF-001	MFT-1000	CCF-102	CT280A			
C219	.001		EF-001	MFT-1000	CCF-102	CT280A			
C220	.001		EF-001	MFT-1000	CCF-102	CT280A			
C221	47	EF-001	MFT-1000	CCF-102	CT280A				
C222	.001	EF-001	MFT-1000	CCF-102	CT280A				
C223	.001	EF-001	MFT-1000	CCF-102	CT280A				
C224	880	NPO-DI 3.0	DTZ-3R3	CCTO-3R3	CNO533				
C225	.001	EF-001	MFT-1000	CCF-102	CT280A				
C226	82	#114464	EF-001	MFT-1000	CCF-102	CT280A			

RCA Victor Part Number

COILS (RF-IF)

ITEM No.	USE	RCA Victor Part No.	NOTES	ITEM No.	USE	RCA Victor Part No.	NOTES
L201	Ant. Input	113968		L204	RF Stator	114813	
L202	Mixer Plate	112909		L205	Mixer Stator	114814	
L203	Ant. Stator	113977		L206	Osc. Stator	114837	



VHF TUNER KRK124E/F/H/J
RCA VICTOR CHASSIS CT16XA,
XAB, XAC, XH, XL, XM, XN, XP

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FOLDER 2

UHF TUNER PARTS LIST AND DESCRIPTION

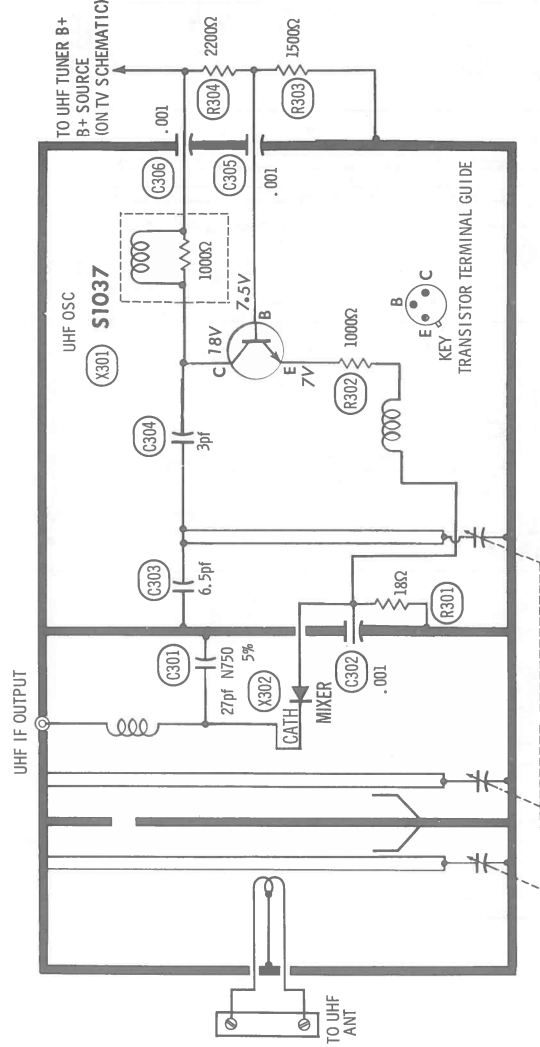
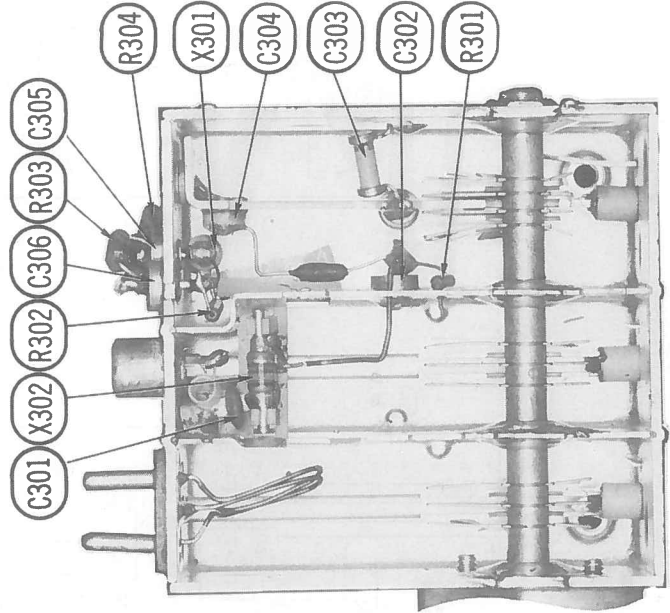
TRANSISTORS

CAPACITORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA		NOTES	ITEM No.	RATING	REMARKS
			DELO PART No.	GENERAL ELECTRIC PART No.				
X301	SI037 (113438)	UHF Oscillator	GE-11	SK-3019	NPN Alternates: 35449 (114267) or GM-770 (114525)	C301	27, N750 5%	
						C302	.001	
						C303	6.5	
						C304	3	
						C306	.001	
						C308	.001	

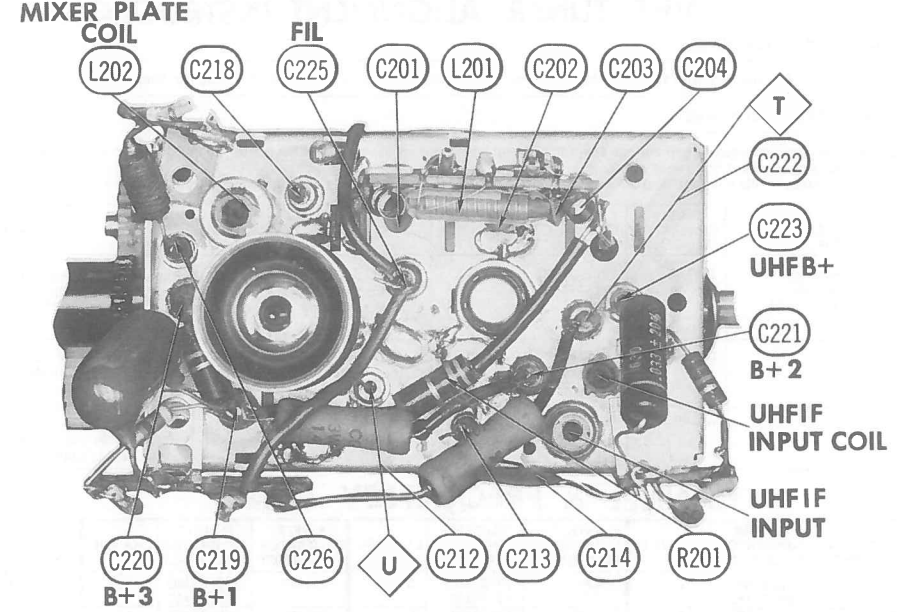
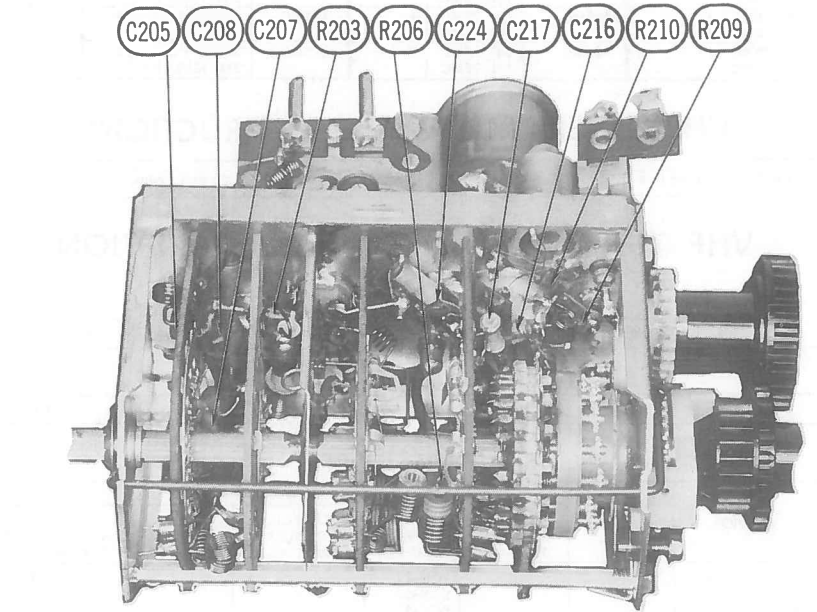
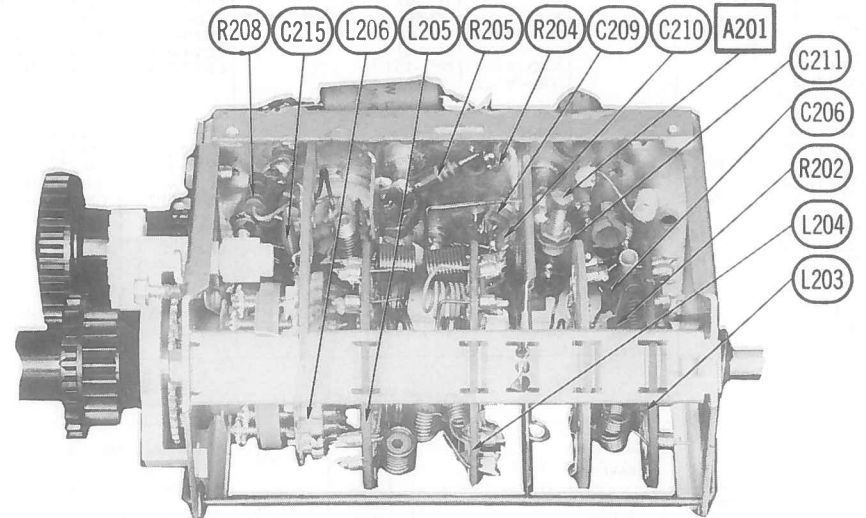
ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		REMARKS
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	
X302		107729 (1N82)	1N82A	1N82A	

ITEM No.	RATING	REMARKS	REPLACEMENT DATA							
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.		
C301	27, N750 5%		RF-001	TCX-27						
C302	.001		NFO-D1 6.8	MFT-1000						
C303	6.5		NFO-D1 3.0	DZ-498						
C304	3		EF-001	DZ-498						
C306	.001		EF-001	MFT-1000						
C308	.001		EF-001	MFT-1000						



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UHF TUNER KRK120JAB/IRA/RB/RH/U



VHF TUNER KRK124E/F/H/J

RCA VICTOR CHASSIS CTC16XA,
XAB, XAC, XH, XL, XM, XN, XP

FOLDER 2

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

COILS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA						
		RCA Victor PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.	WORKMAN PART No.
L38A	Horiz. Osc. (Freq. & Waveform (Sinewave))	112866		6349				TB177
L39	Focus	113999		6350				TB178 ①
L40	Horiz. Linearity (Efficiency) (.25mh-1.9mh)	114006		H-164				
L41	Dynamic Convergence Right R/G Vert. Lines (2mh-6mh)	105065		6347				T149
L42	Dynamic Convergence Right R/G Horiz. Lines (1.2mh-4.6mh)	113394		6348				
L43	Dynamic Convergence Right Blue Horiz. Line (Pr. 3.8mh-9.5mh) (Sec. .13mh-.17mh)	109180		H-102				
L44	Convergence Yoke							
A	Blue Section	109164						
B	Green Section	109164						
C	Red Section	109164						

① Disregard tap.

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	RCA Victor PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L45	.43ADC	16.6Ω	.54 H	112829 (906177-501) (1472800-1)	C-4133	C-2708	26C81	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.
T1	128VAC Tap @ 117VAC @ 3.25A AC	320VAC @ .46A DC	6.3VAC @ 1.9A AC	113991 (1461512-1)					
		SEC. 3	6.3VAC @ 12AAC						

* 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	114047 (961415-4)	A-4140C	VO-700C		A-305X	① Remove two (2) 560Ω resistors from vertical damping network. ② Remove two (2) 270Ω resistors from vertical damping network.
T3	Yoke (Horiz. 12mh) 70° (Vert. 38mh)	109457 (903526-510)	MDF-144C	DY-90AC ②	Y-107	YC-300-1	
T4	Horiz. Output	115843 (906160-502)					

* COMPONENT CONNECTION DATA

ORIGINAL → REPLACEMENT ↓	HV TRANSFORMER						VERTICAL OUTPUT						YOKE							
	Original Connections						Original Connections						Original Connections							
MERIT	1	2	3	4	5	6	Blue	Red	Grn	Whl	Yel	Grn	Red	Blk	Whl	Yel	1	3	4	5
STANCOR							Blue	Red	Grn	Whl	Yel	Grn	Red	Blk	Whl	Yel	1	3	4	5
THORDARSON							Blue	Red	Grn	Whl	Yel	Grn	Red	Blk	Whl	Yel	1	3	4	5
TRIAD							Blue	Red	Grn	Whl	Yel	Grn	Red	Blk	Whl	Yel	1	3	4	5

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA					NOTES	
		PRI.	SEC.	RCA Victor PART No.	MERIT PART No.	STANCOR PART No.		THORDARSON PART No.
T5	12600Ω	3-4Ω		113997 (961429-9)	A-2901	A-3823	24S06	S-53X

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		RCA Victor PART No.	QUAM PART No.	
SP1	4" x 6" PM 3-4Ω	107476	46A1	Used in Models GG589M/W/Y/MR/WR, GG601M/W, GG607M/W/MR/WR, GG637M/W, GG643W/WR, GG649L/LR, GG661M/W/Y/MR/WR, GG667C/F/CR/FR, JG587W, GG583M/W/Y, GG605M/Y, GG654L, GG634M/W, CTC16XL.
	4" PM 3-4Ω	111763		Used in Models FG545B, FG551E/M/W/Y/MR/WR, GG557M/W.
	4" x 6" PM 6-8Ω	113038		Used in Models GG679M/W, GG631M/W/MR/WR, GG581L.
	5" x 7" PM 6-8Ω	109852		Used in Models GG721W/WR, GG715M/W/MR/WR, GG727L/LR, GG733C/F/Y/CR/FR, GG739S/SR, GG745E/ER.

FUSE DEVICES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				
			PART No.		BUSS PART No.		
			FUSE	HOLDER	FUSE	HOLDER	
F1	Circuit Breaker	1.75 Amp.	113950 (945830-4)		8151.75		
F2	3 1/2" length of Fuse wire		102792				

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	RCA Victor PART No.	REPLACEMENT DATA
PC1	Line Isolation	2.2meg, 100pf	115436	
PC2	Line Isolation	2.2meg, 100pf	115436	

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M1	VHF Tuner	KRK124E/F/H/J	
M2	UHF Tuner	KRK120JAB/RA/RB/RH (KRK120U)	
M3	Crystal	105330	3.58MC Oscillator
M4	Magnet Assembly	112932A	Blue Lateral
M5	Magnet Assembly	105024	Convergence (3 required)
M6	Magnet	112785	Purity Ring
M7	Delay Line	109437	
M8	Motor	115993	Remote-Channel Selector
M9	Motor Assembly	115715	Remote-Volume Up (Front)
M10	Motor Assembly	115716	Remote-Volume Down (Rear)
M11	Motor Assembly	115715	Remote-Tint Up (Front)
M12	Motor Assembly	115716	Remote-Tint Down (Rear)
M13	Motor Assembly	115715	Remote-Color Up (Front)
M14	Motor Assembly	115716	Remote-Color Down (Rear)
M15	Degaussing Coil Assembly	114256	
S1	Switch	115695	Master On-Off/Standby
S2	Switch	115497	Remote-Manual/Audio Mute
S3	Switch	113398	Programming
S4	Switch	46760	Video Peaking
S5	Switch	113398	Normal-Service
S6	Switch	113398	Picture Tube Bias
	Printed Circuit Board	115549	Video Circuit Assembly, Complete - less tubes
	Printed Circuit Board	114042	Sound Circuit Assembly, Complete - less tubes
	Printed Circuit Board	114044	Deflection Circuit Assembly, Complete - less tubes
	Printed Circuit Board	115548	Chroma Circuit Assembly, Complete - less tubes
	Printed Circuit Board	114046	Convergence Circuit Assembly

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
Power Cord (Interlock Type)	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
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 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor

CABINET PARTS LIST PAGE 22

PARTS LIST AND DESCRIPTION

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

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

TUBES

ITEM No.	USE	TYPE	REPLACEMENT DATA		
			AMPEREX	GENERAL ELECTRIC	SYLVANIA
X301	UHF Osc. (Transistor)	S1037			
V201	RF Amp.	6DS4	V13	Damper	6DW4B
V202	Mixer - Osc.	6KZ8	V14	HV Rectifier	3CA3
V1	1st Video IF	6JH8	V15	HV Regulator	6BK4B
V2	2nd Video IF	6GM6	V16	Focus Rectifier	2AV2
V3	3rd Video IF	6JC6	V17	Color Killer - Chroma Bandpass Amp.	6GH8A
V4	1st Video Amp. - 2nd Video Amp.	6LF8	V18	Z Demodulator	6HZ6
V5	Video Output	12BY7A	V19	X Demodulator	6HZ6
V6	Noise Inverter - AGC Keying - Sync Sep.	6KA8	V20	R-Y Amp. - B-Y Amp.	6GU7
V7	Sound IF	6EW6	V21	G-Y Amp. - Horiz. Blanking Amp.	6GU7
V8	Audio Detector	6H29	V22	Burst Amp.	6JC6
V9	Audio Output	6AQ5A	V23	Color Killer Det. - Chroma Sync Phase Det.	6JUBA (6JUB) *
V10	Vert. Multi. - Vert. Output	6GF7A (6GF7) *	V24	Chroma Ref. Osc. control - Chroma Reference Osc.	6GH8A
V11	Horiz. AFC - Horiz. Osc.	6FQ7 (6CG7) *			
V12	Horiz. Output	6JE6 (6JE6A) *			

* Alternate

PICTURE TUBE

ITEM No.	USE	REPLACEMENT DATA				NOTES
		RCA Victor PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V25	21FJP22A 21FBP22A	21FJP22A ① 21FBP22 ①	21FJP22A ① 21FBP22A ①	RE21FJP22 ② RE21FBP22 ②		① Aluminized ② Color Bright "85"

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.46A	113998 (1N3195)	GE-505 or GE-504A	8D6 or 10DB6A ①	1N2071 or FW600 ①	SK-3016 or SK-3017	60C or F-6
X2	.46A	113998 (1N3195)	GE-505 or GE-504A	8D6 or 10DB6A ①	1N2071 or FW600 ①	SK-3016 or SK-3017	60C or F-6
X3	.46A	113998 (1N3195)	GE-505 or GE-504A	8D6 or 10DB6A ①	1N2071 or FW600 ①	SK-3016 or SK-3017	60C or F-6
X4	.46A	113998 (1N3195)	GE-505 or GE-504A	8D6 or 10DB6A ①	1N2071 or FW600 ①	SK-3016 or SK-3017	60C or F-6
X5		113391	GE-505 or GE-504A	8D4 or SD500	1N536	SK-3016 or SK-3017	P33-18H-Q
X6A	.012A	114013	GE-505 or GE-504A	8D4 or SD500	1N536	SK-3016 or SK-3017	F-2 or 20C
B	.040A		GE-505 or GE-504A	8D4 or SD500	1N536	SK-3016 or SK-3017	F-2 or 20C
C	.015A		GE-505 or GE-504A	8D4 or SD500	1N536	SK-3016 or SK-3017	F-2 or 20C
D	.020A		GE-505 or GE-504A	8D4 or SD500	1N536	SK-3016 or SK-3017	F-2 or 20C
X7		112524	1N60	1N60			
X8		112524	1N60	1N60			
X9		109474	6GC1	DD04			

① A single unit full wave bridge.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA					
	CAP.	VOLT.	RCA Victor PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	80	450	114001 (974576-32)	AFH54-88-10	DD0178.8 BR40-150	XC3-32 QTI-13	FM450.16	TVL-4754
C	40	150						
D	20	450						
C2A	80	450	112827 (974576-25)	AFH4-108-35	DD0825.5	XC3-32 QTI-15	FM427.67	TVL-4714.6
C	20	250						
D	50	50						
C3A	2	350	112981 (974576-28)	AFH2-98 ①	AA0510 BR2-450 BR50-150	XC1-8 QTI-1	PF230.7	TVL-2738.5
C4	50	150	109227 (442901-61)	PR51480		QTI-17	TC49	TVA-1414

① Use MW-4 Mounting Wafer.

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	8		NPO-DI 8.2	TCZ-91	CV601CG101K	CCTO-101	CNO310	10TCC-V82
C6	.001	NPO 5%	NPO-DI 100	DD-102	HVX162XPI02M	CCD-102	B210	10TCC-T10
C7	.001		BPD-001	DD-102	HVX162XPI02M	CCD-102	B210	5HK-D10
C8	.001		BPD-001	DD-102	HVX162XPI02M	CCD-102	B210	5HK-D10
C9	.001		BPD-001	DD-102	HVX162XPI02M	CCD-102	B210	5HK-D10
C10	680	N2200 10%	#102237				*	
C11	.001		BPD-001	DD-102	HVX162XPI02M	CCD-102	B210	5HK-D10
C12	.001		BPD-001	DD-102	HVX162XPI02M	CCD-102	B210	5HK-D10
C13	.001		BPD-001	DD-102	HVX162XPI02M	CCD-102	B210	5HK-D10
C14	220	N1500 10%	#112878				*	
C15	.0022		BPD-0022	DD-222	BYV601ZU222P	CCD-222	B222	5HK-D22
C16	.001		BPD-001	DD-102	HVX162XPI02M	CCD-102	B210	5HK-D10
C17	560	N1500 5%	#109142				*	
C18	.00							

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.
C26	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C27	.0022	10%	BPD-0022	DD-222	BYV601ZU222P	CCD-222	B222	5HK-D22
C28	330	10%	DD-330	DD-330	JZB2601YF331K	CCD-331	JF333	10TS-T33
C29	470	10%	DI-470	DD-471	JZB2601YF471K	CCD-471	JF347	10TS-T47
C30	.22	200V	P288N-22	DD-471	WVF2P22	DDP-4-224	PVC2022	2PS-P22
C31	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C32	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C33	.047	600V	P688N-047	DD-503	PM6S47	6DP-3-473	GEM6147	6TM-S47
C34	.033	100V	P288N-033	DD-503	WVF2S33	1DP-1-333	PVC1133	4PS-S33
C35	.001		P688N-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C36	.047	600V	P688N-047	DD-503	PM6S47	6DP-3-473	GEM6147	6TM-S47
C37	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C38	.1	200V 10%	P288N-1	DF-104	PM2P1	2DP-3-104	PVC201	2TM-P10
C39	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C40	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C41	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C42	1.5		NPO-D1 2.2	DTZ-2R2	CZ601CG100J	CCD-2R2	CNO222	10TCC-Q22
C43	10		NPO-D1 10	DTZ-10	CZ601CG100J	CCD-100	CNO410	10TCC-Q10
C44	5		NPO-D1 5.0	DTZ-4R7	CZ601CG100J	CCD-050	CNO547	10TCC-Q50
C45	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C46	.750	N2200 5%	#112450					
C47	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C48	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C49	.47	N750 10%	N750-D1 47	DTN-47	CX601UJ470K	CCTN-470	CN7447	10TCC-Q47
C50	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C51	.047	100V	TTD-50	DD-561	HOV101ZV503Z	CCD-561	TA150	TH-S50
C52	560		DI-560	DD-682	MLX501ZV682Z	CCD-682	GP258	10TS-D88
C53	.0068		DI-680	DD-682	HVX162XP102M	CCD-102	B210	5HK-D10
C54	.001		BPD-0047	DD-472	BYX601ZU472P	CCD-472	B247	5HK-D47
C55	.0047							
C56	.001	2KV 10%	#105320					
C57	180	1KV 10%						
C58	.001							
C59	220	N1500 10%	#112878					
C60	.0033							
C61	150	10%						
C62	.001							
C63	.47	NPO 10%						
C64	.0015							
C65	.0027, N5600	10%	#113387					
C66	.036	600V 10%						
C67	.0022							
C68	.1	600V						
C69	.47	200V						
C70	.001	2KV 10%	#105320					
C71	.0082	1KV	#109818					
C72	.047	200V						
C73	680							
C74	680							
C75	.0068	400V 10%						
C76	100	3KV						
C77	.0033	2.5KV						
C78	.0033	2.5KV						
C79	68	NPO 10%						
C80	27	N750						
C81	820							
C82	.1	1KV						
C83	.001							
C84	.15	200V						
C85	820							
C86	390	1.5KV 5%						
C87	.01	400V						
C88	680	5%						
C89	.0015	600V 10%						
C90	.01	600V						
C91	.1	600V						
C92	68, 4KV, N1500, 10%							
C93	150							
C94	120							
C95	.01							
C96	.01							
C97	470							
C98	.01							
C99	.01							
C100	.001							
C101	330	5%						
C102	330	5%						
C103	330	5%						
C104	330	5%						
C105	180	N2200 10%	(120) † #105242					
C106	1.3							
C107	.047	200V						
C108	.01							
C109	.1	200V						
C110	.01							
C111	.4	NPO ±.5						
C112	10	NPO						
C113	.01							
C114	220	N750 10%						
C115	820	10%						
C116	.01							
C117	.001							
C118	82	10%						
C119	.01							
C120	15							
C121	200	5%						
C122	300	5%						
C123	10	NPO ±.5						
C124	6							
C125	33	N150	#109260					
C126	33	N150	#109260					
C127	.047	200V						
C128	.01							
C129	.01	600V						
C130	.01							
C131	.01	600V						
C132	.01							
C133	.01	600V						
C134	.01							
C135	.22	400V						
C136	.01							
C137	.001							

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

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.
C138	.001		BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C139	130	N2200 6KV	HVD-15-2200	DD30-222	HVX202ZU202P	CCD-102	B210	30GA-D22
C140	.0022	1.5KV						
C141	.01	1KV	BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C142	22	1KV N750	N750-D1 22	DTZ-22	CY601UJ220K	CCD-220	CN7422	10TCC-Q22
C143	.056	200V 10%						
C144	.15	600V 10%	P688N-15	DD-103	WVF6P15	6DP-5-154	PVC6015	4PS-S56
C145	.15	600V 10%	P688N-15	DD-103	WVF6P15	6DP-5-154	PVC6015	4PS-S56
C146	.1	400V	P488N-1	DF-104	PM4P1	4DP-3-104	GEM401	4TM-P10
C147	.056	400V 10%						
C148	.1	200V	P288N-1	DF-104	PM2P1	2DP-3-104	PVC201	2TM-P10
C149	.12	200V 10%	P288N-15	DD-103	WVF2P15	2DP-3-154	PVC6015	2PS-P15
C150	.082	200V 10%	P288N-075	DD-503	GEM6147	6DP-4-753	GEM6147	6PS-S82
C151	.047	500V	P688N-047	DD-503	PM6S47	6DP-3-473	GEM6147	6TM-S47
C152	.001	1KV	BPD-001	DD-102	HVX162XP102M	CCD-102	B210	5HK-D10
C153	680	1KV	DI-680	DD-681	HVX201ZU681P	CCD-681	GP368	5GA-T68
C154	.1	600V	P688N-1	DF-104	PM6P1	6DP-4-104	GEM601	6TM-P10
C155	.01	1KV	P688N-01	DF-103	BYV102ZU103M	CCD-103	B110	5HK-S10

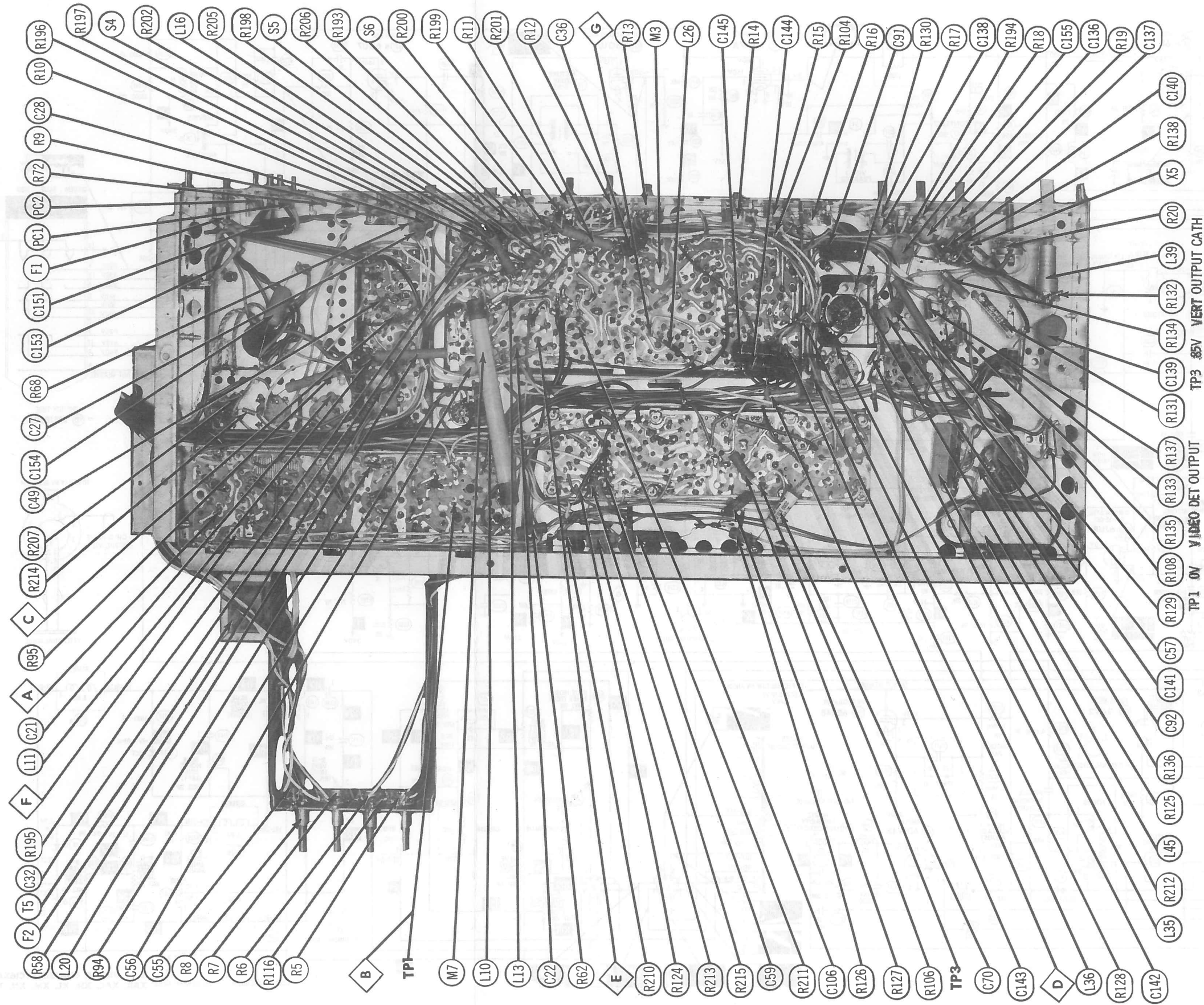
* Not normally in distributor's stock. Available thru distributor on order to manufacturer. † Alternate Value

‡ RCA Victor Part Number

CONTROLS

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

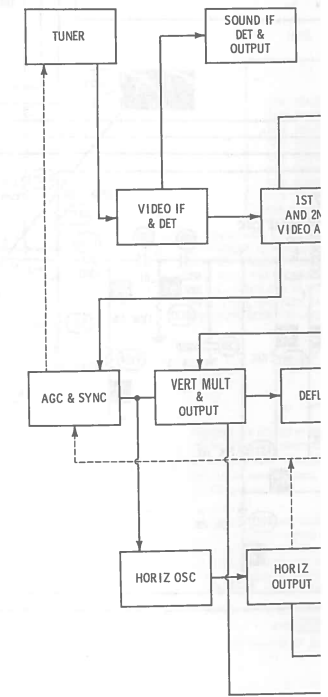
ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			RCA Victor PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	1meg 200K Tap	115785 ②	F12-1meg, SP212, KR-8	C475F1-1meg, RS-3/16	B11-137X, SK8 or (PQ13-137X, SK8) or (BU2, CF44, SS11, K)*	PP16T25, DS37 or (RU16T254, SL35)
R2	Volume/Switch	1meg 150K Tap	113987 ②	973943-28			
R2	Brightness	250K	115781 (1472200-17)	F1-250K, SFS212	A47-250K-S, RS-3/16 or (NP-250K-S, SE-F-400)	UA254L, SD3500 or (RU254L, SL35, IS1937) or (U46, DS37)	
R2	Brightness	250K	113988 ② (1470834-8)	F1-250K, SFS212	A47-250K-S, RS-3/16 or (NP-250K-S, SE-F-400)	B11-130, SK9 or (BU2, CF15, SS4, DC1) *	UA254L, SD3500 or (RU254L, SL35, IS1437) or (U46, DS37)
R3	Tint	1200Ω	115784 ② (1472283-8)	F5-1500, SFS212	NP-1200-V, SE-F-400	B17-208, SK9 or (BU2, CF53, SS4, DC1) *	UA152R, SD3500 or (RU152R, SL35, IS1625) or (U5, DS37)
R4	Color	500Ω 400Ω Tap	115783 ② (1472283-7)	F1-500, SFS212	A47-500-S, RS-3/16 or (NP-500-S, SE-F-400)	B11-103, SK9 or (BU2, CF4, SS4, DC1) *	UA52L, SD3500 or (RU52L, SL35, IS1625) or (U2, DS37)
R4	Color	500Ω	112836 ② (1470084-14)	F1-500, SFS212	A47-500-S, RS-3/16 or (NP-500-S, SE-F-400)	B11-103, SK9 or (BU2, CF4, SS4, DC1) *	UA52L, SD3500 or (RU52L, SL35, IS1625) or (U2, DS37)
R5	Horiz. Hold	35K	114018 (1472200-10)	F1-50K, SFS212	A47-40K-S, RS-3/16 or (NP-40K-S, SE-F-400)	B11-122, SK9 or (BU2, CF12, SS4, DC1) *	UA54L, SD3500 or (RU54L, SL35, IS1437) or (U35, DS37)
R6	Vert. Hold	750K	114016 (1472200-18)	F1-750K, SFS212	A47-750K-S, RS-3/16 or (NP-750K-S, SE-F-400)	B11-136, SK9 or (BU1, CF64, SS4, DC1) *	RU754L, SL35, IS1437 or (UA16L, SD3500) or (U54, DS37)



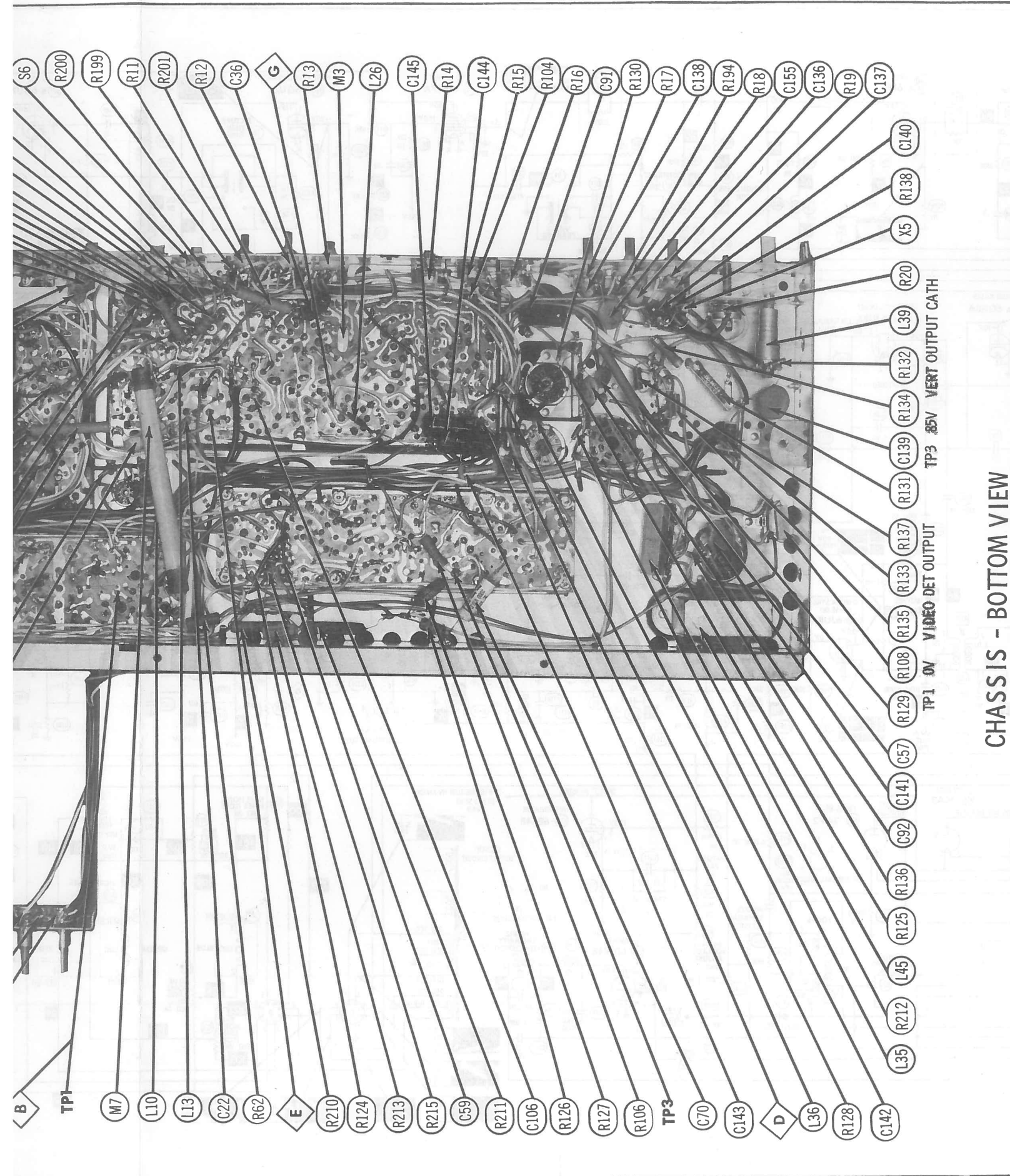
CHASSIS - BOTTOM VIEW
RCA VICTOR CHASSIS CT16XA,
XAB, XAC, XH, XI, XM, XN, XP

FOLDER 2

- TV CHASSIS REMOVAL**
1. Remove 4 screws and 2 clips hold cover. On some models it may be leads. Remove all knobs.
 2. Disconnect yoke plug, high voltage speaker leads, degaussing coil plug
 3. Remove 4 screws holding chassis controls.
 4. Lift out chassis and tuner.

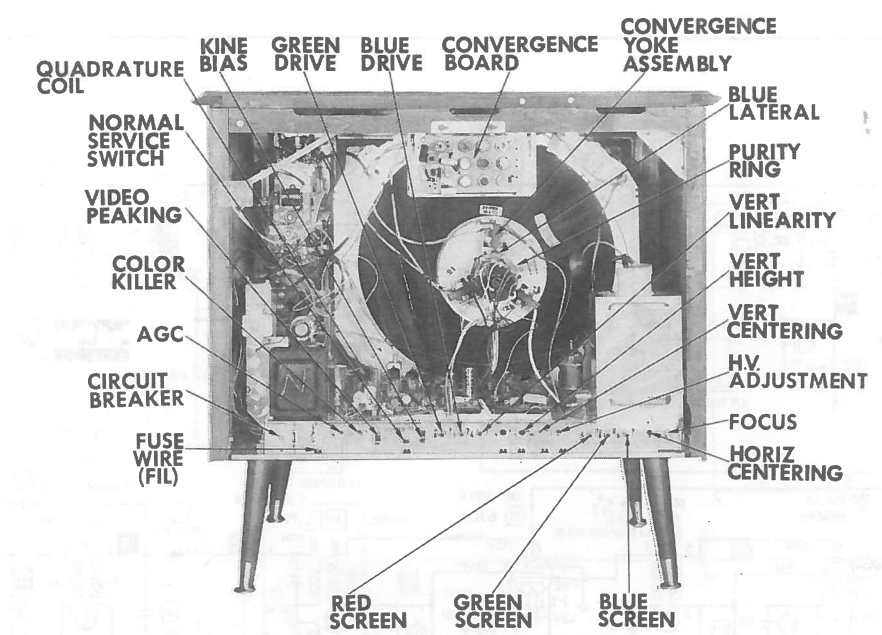


- QUADRATURE COIL
- NORMAL SERVICE SWITCH
- VIDEO PEAKING
- COLOR KILLER
- AGC
- CIRCUIT BREAKER
- FUSE WIRE (FIL)



CHASSIS - BOTTOM VIEW
 RCA VICTOR CHASSIS CT16XA,
 XAB, XAC, XH, XL, XM, XN, XP

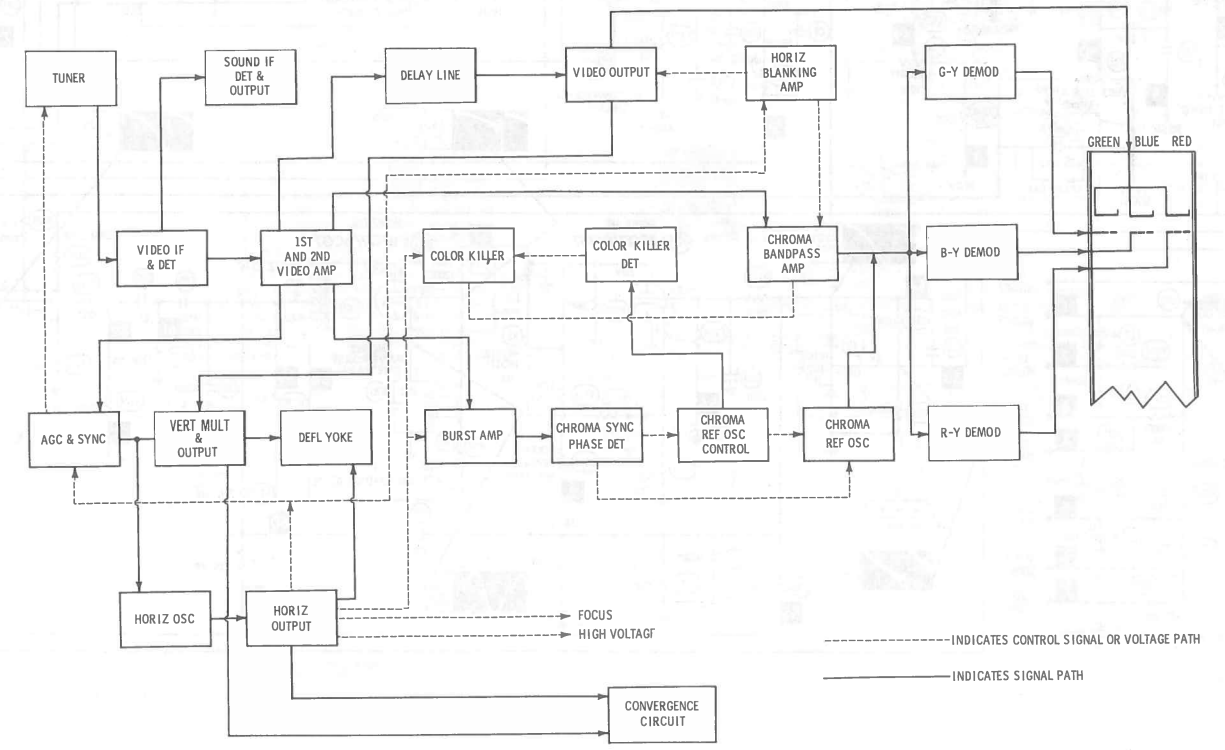
FOLDER 2



CABINET - REAR VIEW

DISASSEMBLY INSTRUCTIONS

- TV CHASSIS REMOVAL**
1. Remove 4 screws and 2 clips holding back cover and remove back cover. On some models it may be necessary to disconnect antenna leads. Remove all knobs.
 2. Disconnect yoke plug, high voltage anode lead, picture tube socket, speaker leads, degaussing coil plug, and convergence board plug.
 3. Remove 4 screws holding chassis and 3 screws holding tuner and controls.
 4. Lift out chassis and tuner.
- NOTE:** Most components may be serviced without removing chassis.
- PICTURE TUBE REMOVAL**
1. Follow "Chassis Removal" procedure.
 2. Remove 2 screws and convergence board. Remove 4 screws and picture tube shield.
 3. Remove 8 screws holding picture tube brackets and lift out picture tube. Do not lift out by the neck of the tube.



BLOCK DIAGRAM

PHOTOFACT® Folder

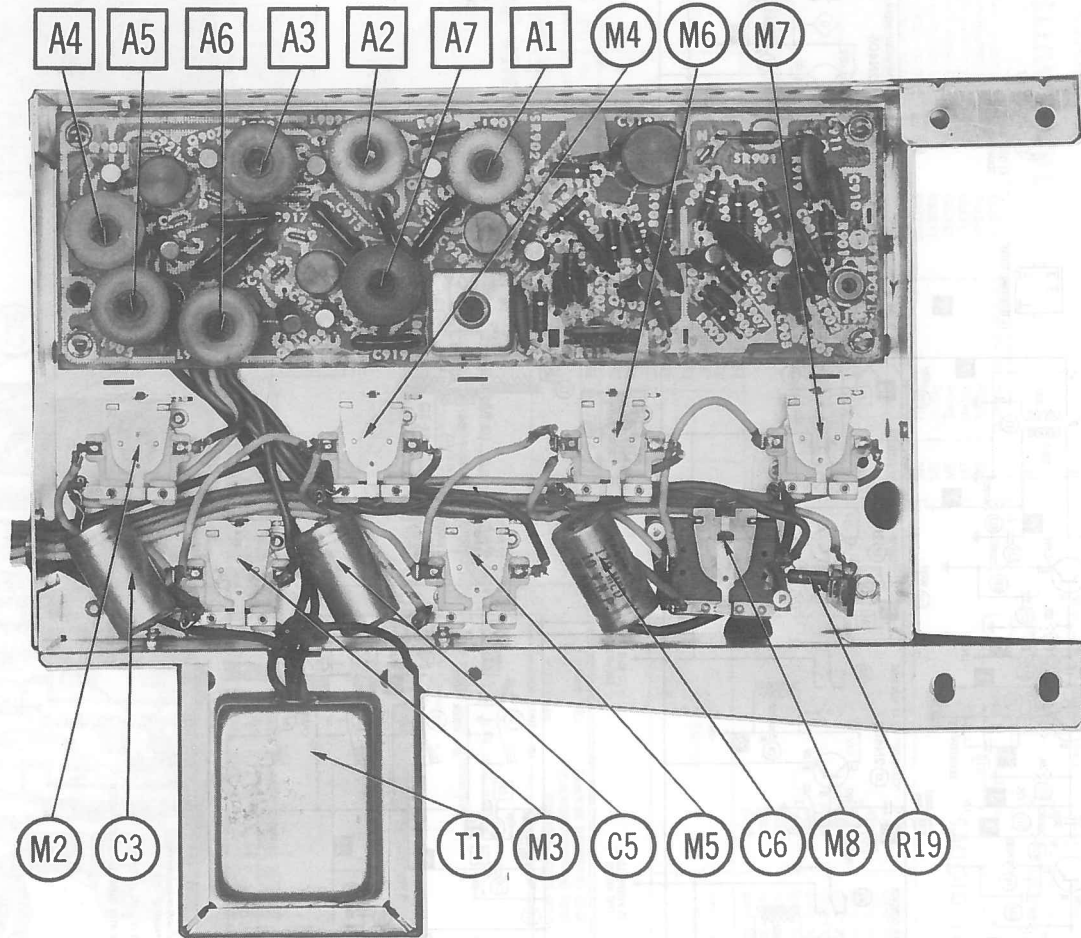
with CIRCUITRACE®

RCA VICTOR
REMOTE CONTROL RECEIVER
CTP10F/G, TRANSMITTER CRK6A

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 818 FOLDER 2. File this Folder with the TV Folder in the yellow filing jacket provided.

RCA VICTOR
REMOTE CONTROL RECEIVER
CTP10F/G, TRANSMITTER CRK6A



RCA VICTOR
REMOTE CONTROL RECEIVER
CTP10F/G, TRANSMITTER CRK6A

TRADE NAME
SUPPLIER
TYPE SET
TRANSISTORS
POWER SUPPLY

RCA Victor
For current address, see Annual Index.
Remote Control Receiver CTP10F/G, Transmitter CRK6A
Twelve
110-120 Volts AC, 60 Cycles

RATING .3 Watts, .05 Amp. @ 117 Volts AC

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

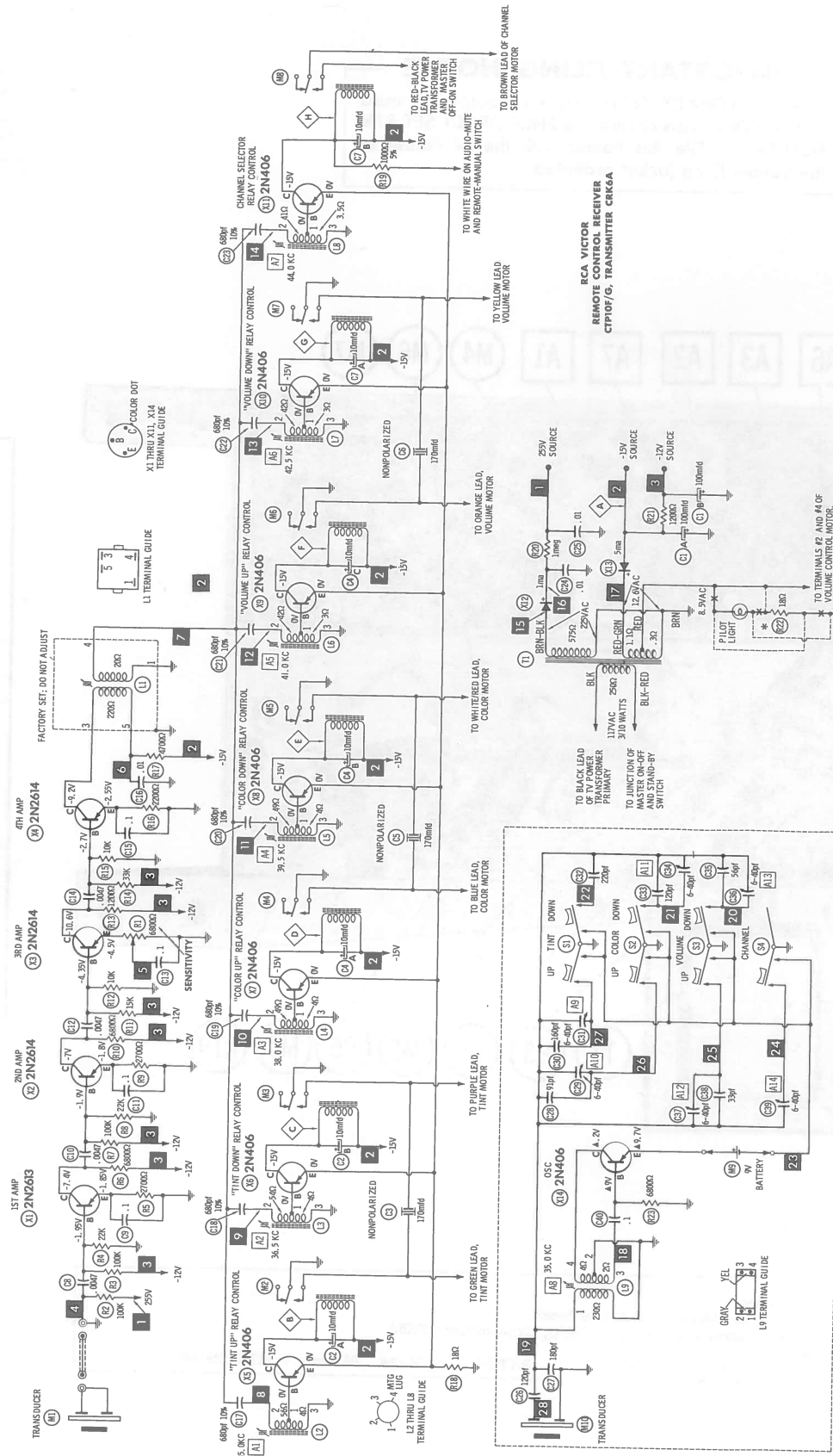
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. NB654

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DATE 6 -66

SET 818 FOLDER 2-A



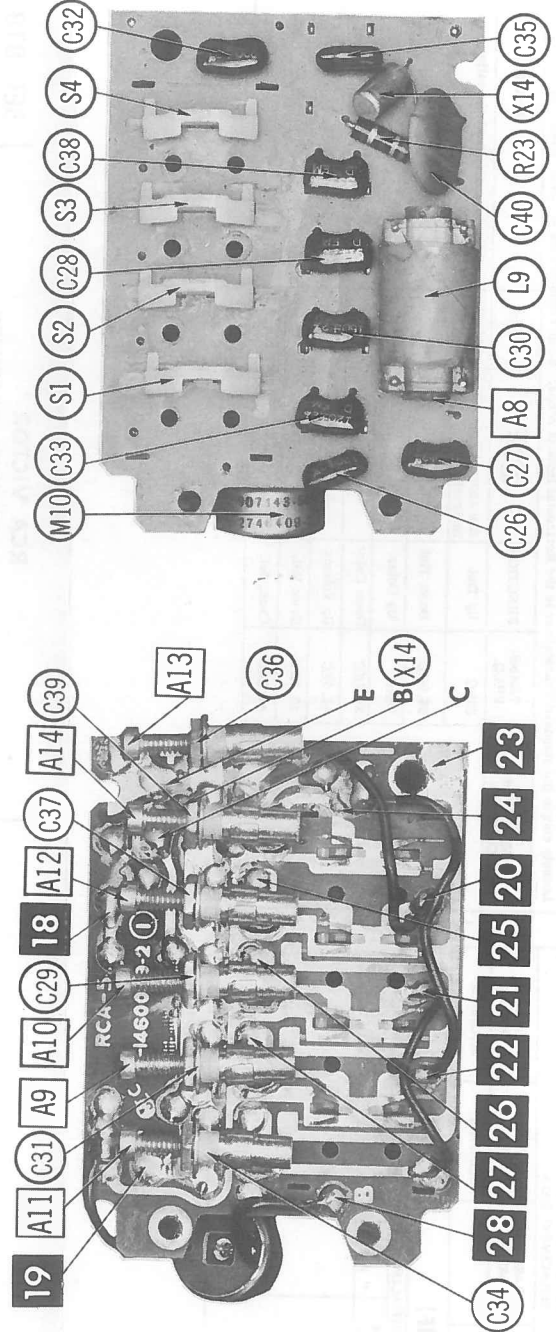


- See page 151
1. Voltage measurements taken with vacuum tube voltmeter.
 2. All controls set for normal operation, no signal applied.
 3. Measure values are from socket pin or terminal to common ground.
 4. Values in parentheses are for alternate values.
 5. Numbers assigned to terminals may not be found on this unit.
 6. Supply voltage maintained at rated value for voltage readings.
 7. In internal measurements not given because of the wide variation in internal resistance of transformer.

A PHOTOFACT STANDARD NOTATION SCHEMATIC with CIRCUITRACE

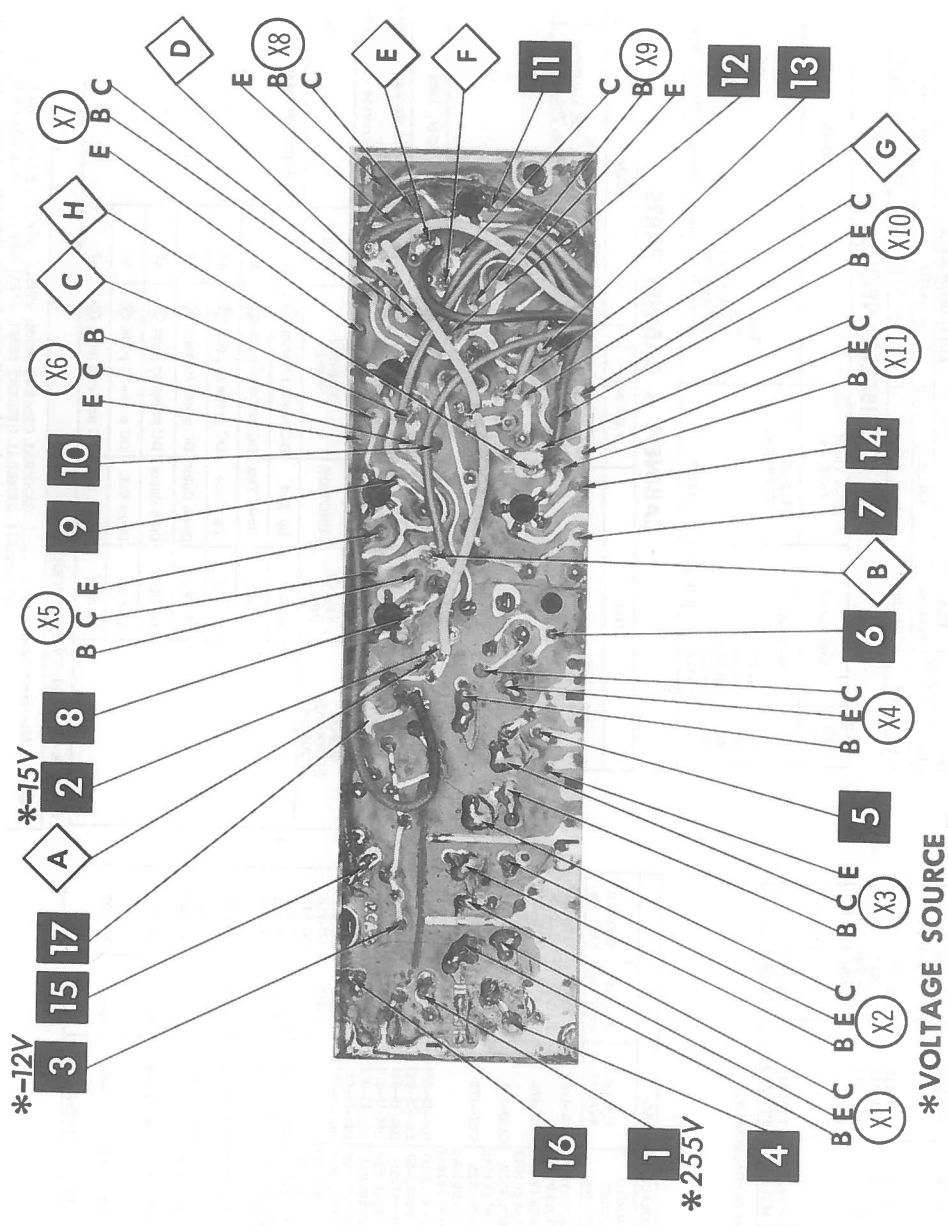
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TRANSMITTER

CRK6A

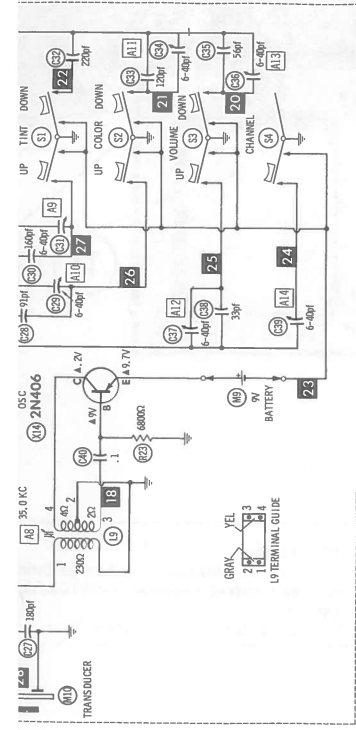
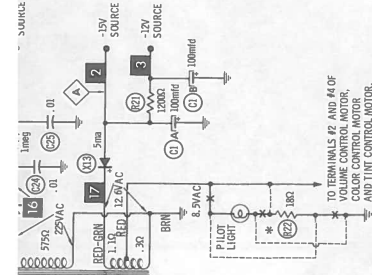


RECEIVER

CTP10F/G

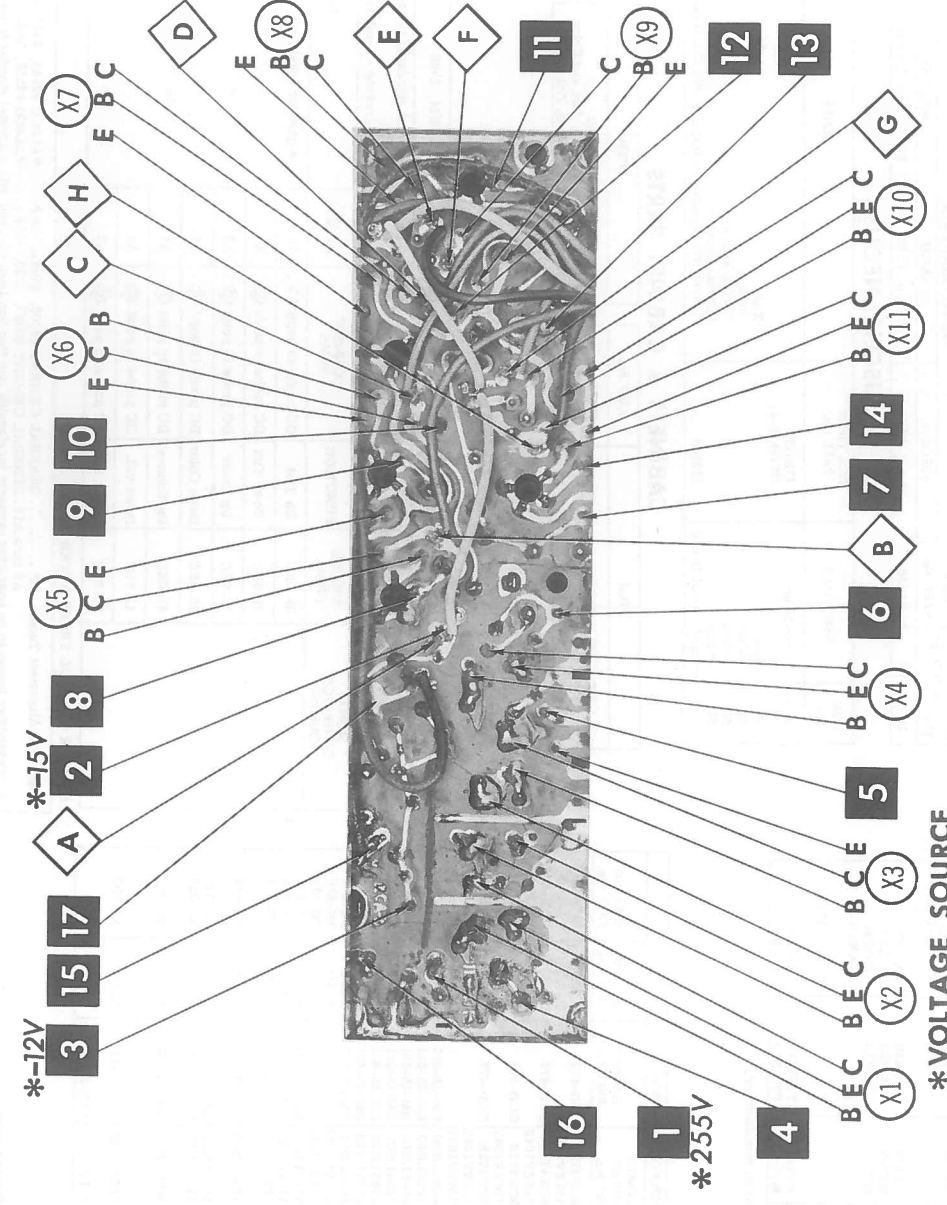
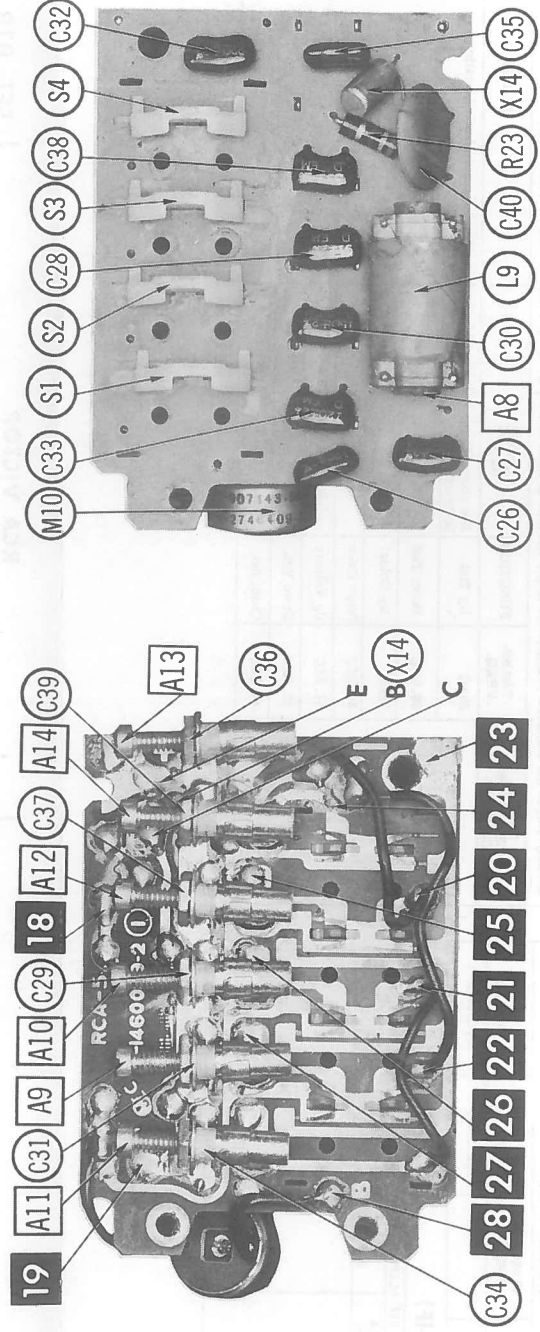
A Howard W. Sams **CIRCUITRACE**® Photo

**RCA VICTOR
REMOTE CONTROL RECEIVER
CTP10F/G, TRANSMITTER CIRCA**



- See parts list
1. Voltage measurements taken with vacuum tube voltmeter.
 2. Measured values are from socket pin or terminal for common ground.
 3. All terminals viewed from bottom unless otherwise designated.
 4. Supply voltage measured at any socket pin or terminal on the unit.
 5. Resistance measurements are given because of the wide variation in internal resistance of transistor.
- A PHOTOFACT STANDARD NOTATION SCHEMATIC with CIRCUITRACE[®]
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