

CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

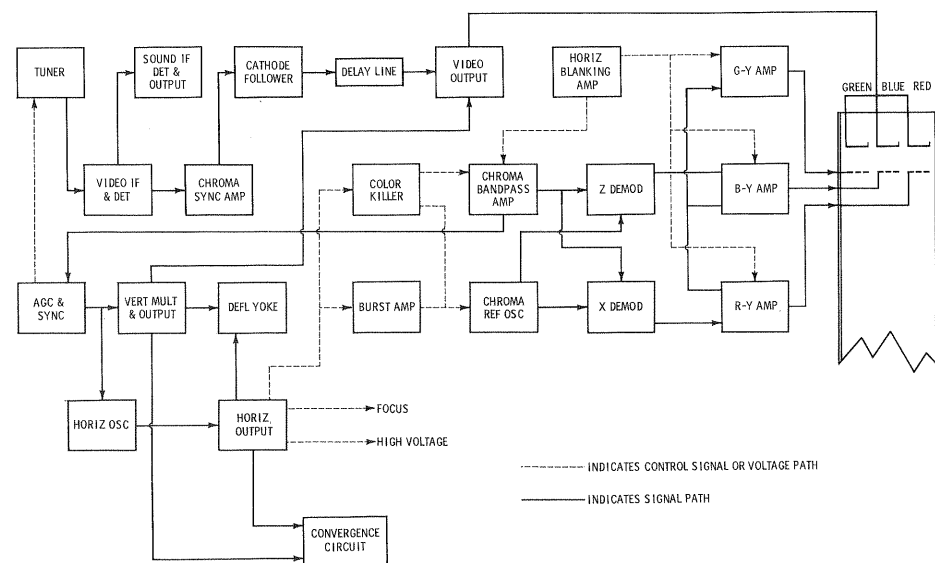
TV CHASSIS REMOVAL

1. Remove 5 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 pins, high voltage anode lead, picture tube socket, speaker leads, ground wire, degaussing plug, and convergence plug.
3. Remove 4 screws holding chassis and loosen 4 screws holding tuner and controls. Lift out chassis and tuner.

NOTE: Most components may be serviced without removing chassis.

PICTURE TUBE REMOVAL

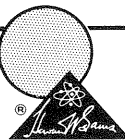
1. Follow "Chassis Removal" procedure. Lay set face down on a soft protective surface.
2. Remove 4 screws holding picture tube shield.
3. Remove 8 screws holding mounting brackets and lift out picture tube by brackets.



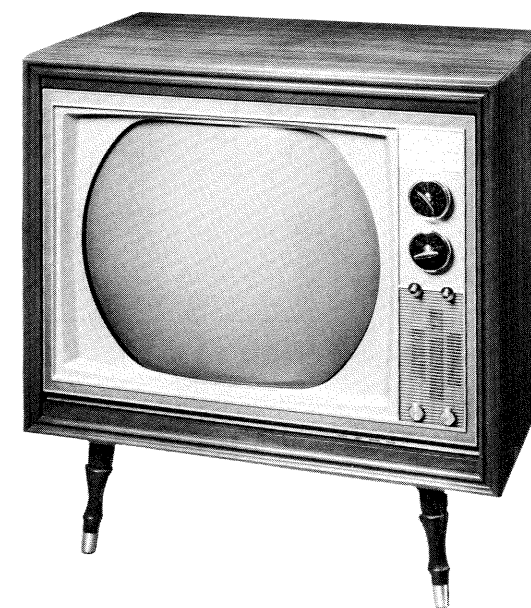
BLOCK DIAGRAM

SET 837 FOLDER 2

PHOTOFACT® Folder with **CIRCUITRACE®**



RCA VICTOR CHASSIS
CTC20A, CTC20C



MODEL GG579W

RCA VICTOR CHASSIS
CTC20A, CTC20C

RCA VICTOR CHASSIS
CTC20A, CTC20C

TRADE NAME	RCA Victor	Models	Chassis
		FG543/E/M/W/Y, GG579M/W/Y CTC20A FH537M/W, GH608M/W, GH626M/W, GH630W, GH636S ... CTC20C	
SUPPLIER	For current address, see Annual Index.		
TYPE SET	Color Television Receiver		
TUBES	VHF: Twenty-Three, UHF: One Transistor		
POWER SUPPLY	110-120 Volts AC, 60 Cycles	RATING	270 Watts, 2.83 Amps. @ 117 Volts AC
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)		

SERVICING IN THE FIELD

SAFETY GLASS

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

FUSE OR FUSE DEVICE

A 2" length of fuse wire is used for filament protection. (For location, see F2 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 oscillator 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. Waveform (Sine Wave) Coil. (See "Tube Placement Chart" for location.)

FOCUS

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

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

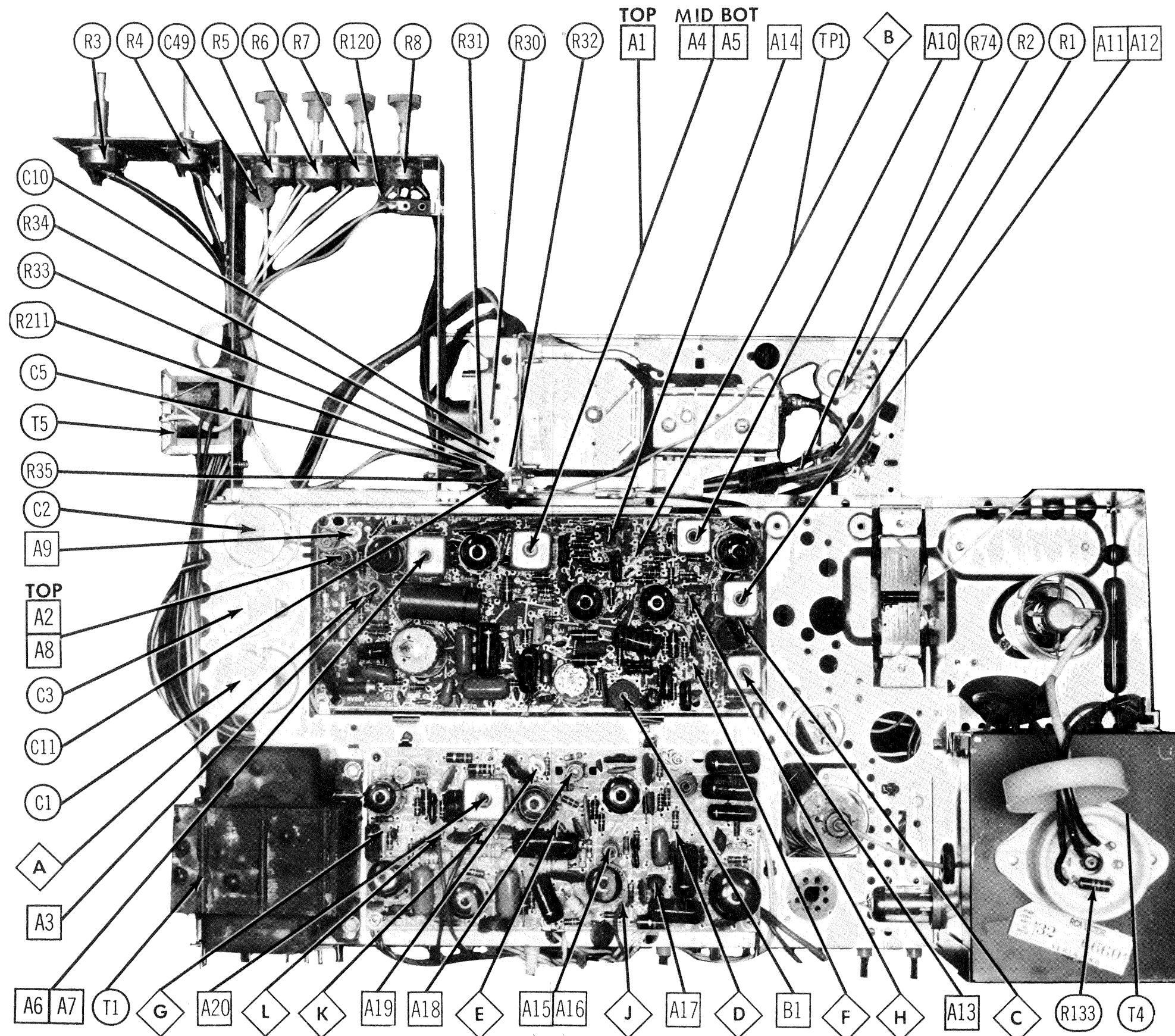


The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. NB799

Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1966 Howard W. Sams & Co., Inc., Indianapolis, Indiana 46206. Printed in U. S. of America

DATE 9-66 SET 837 FOLDER 2

SET 837 FOLDER 2



CHASSIS - TOP VIEW

RCA VICTOR CHASSIS
CTC20A, CTC20C

FOLDER 2

CONVERGEN
PANEL

CONVERGEN
YOKE

BLUE
LATERA
MAGN

COLC
KILLI

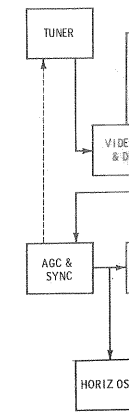
AG

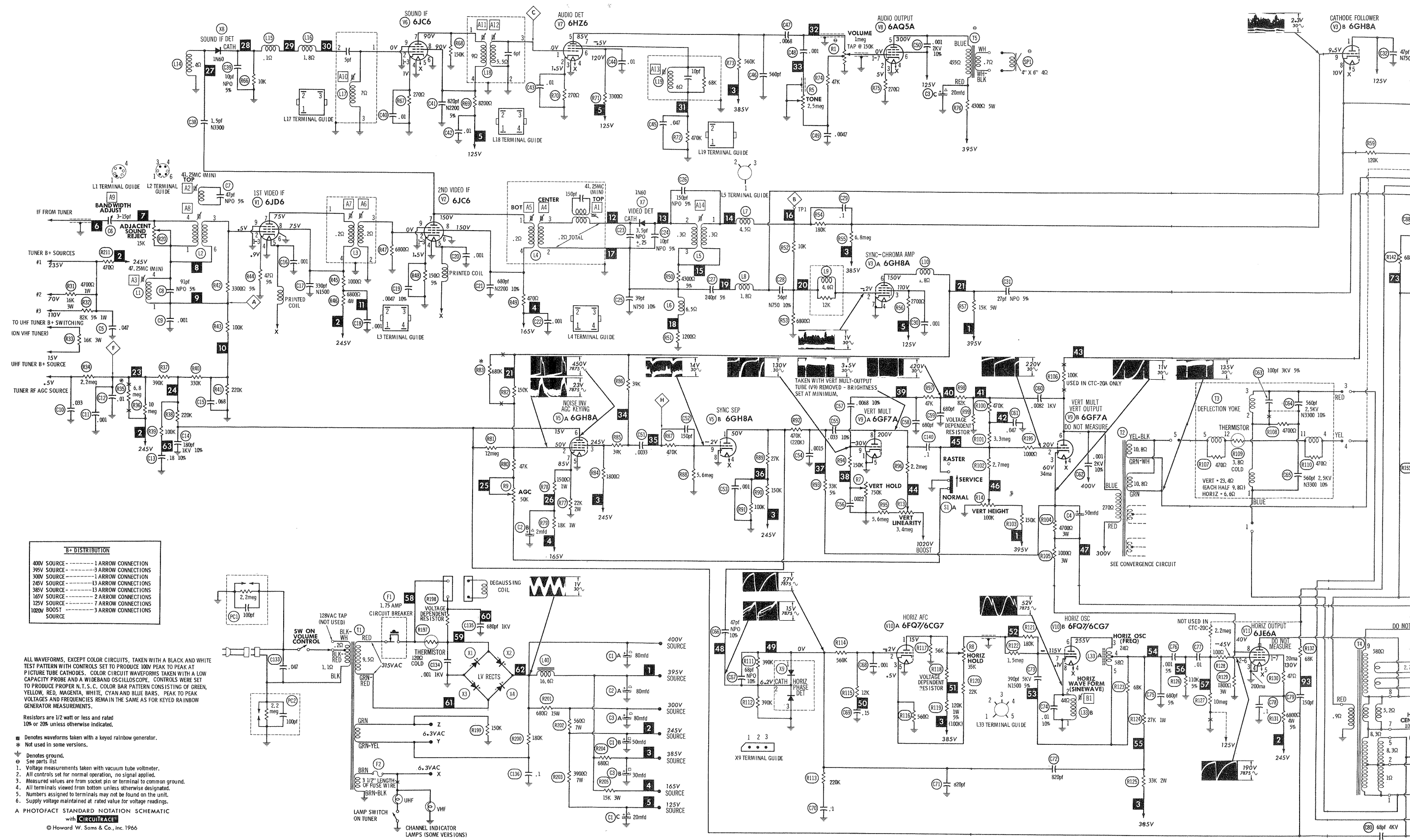
CIRCUIT
BREAKI

FU
(FIL

KINE
BIAS
SWITC

- TV CHASSIS REMOVAL**
1. Remove 5 screws and 2 cl cover. On some models it leads. Remove all knobs.
 2. Disconnect yoke pins, high speaker leads, ground wire
 3. Remove 4 screws holding c and controls. Lift out chas





B+ DISTRIBUTION

400V SOURCE	1 ARROW CONNECTION
395V SOURCE	3 ARROW CONNECTIONS
300V SOURCE	1 ARROW CONNECTION
245V SOURCE	13 ARROW CONNECTIONS
385V SOURCE	13 ARROW CONNECTIONS
165V SOURCE	2 ARROW CONNECTIONS
125V SOURCE	7 ARROW CONNECTIONS
1020V BOOST SOURCE	3 ARROW CONNECTIONS

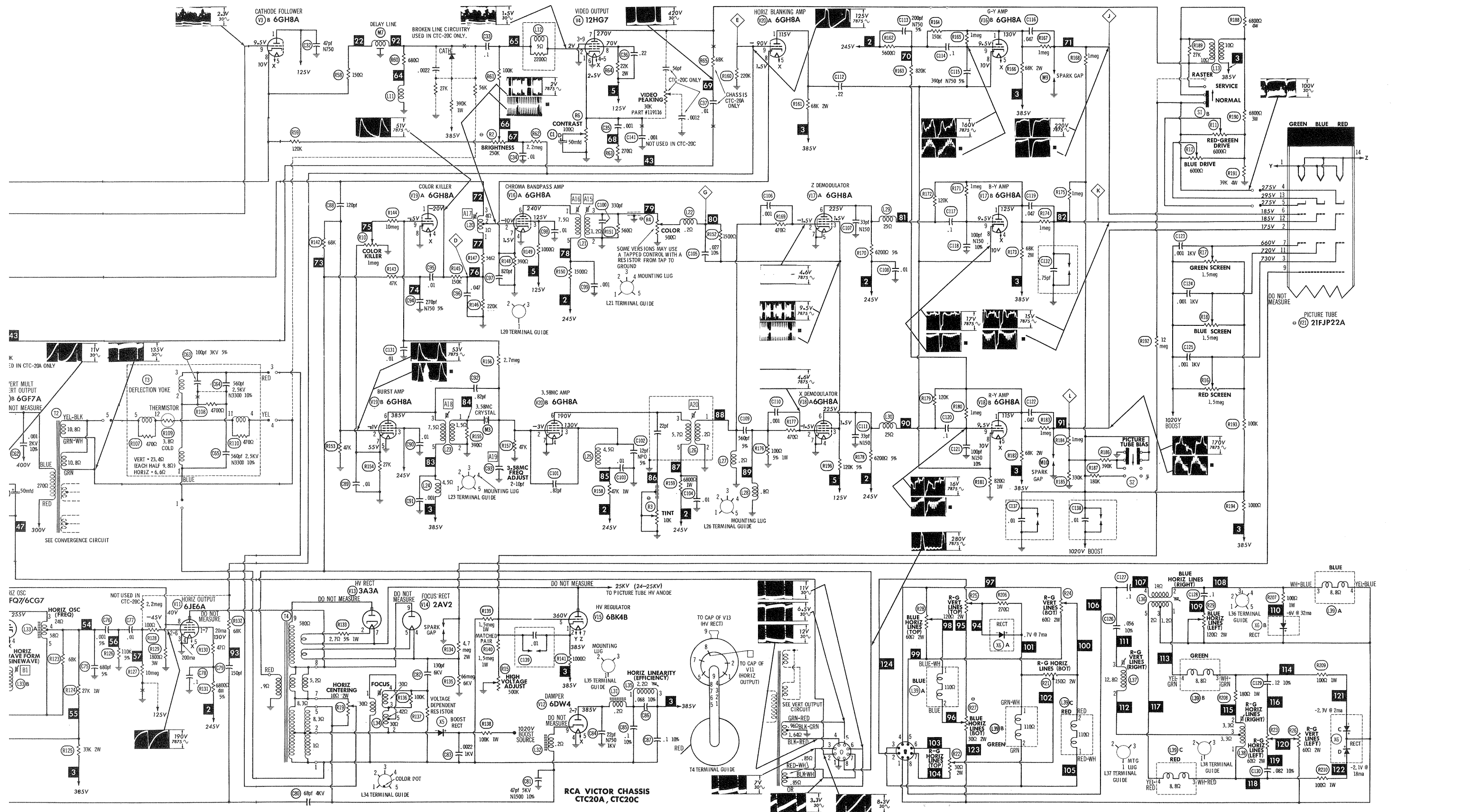
ALL WAVEFORMS, EXCEPT COLOR CIRCUITS, TAKEN WITH A BLACK AND WHITE TEST PATTERN WITH CONTROLS SET TO PRODUCE 100V PEAK TO PEAK AT PICTURE TUBE CATHODES. COLOR CIRCUIT WAVEFORMS TAKEN WITH A LOW CAPACITY PROBE AND A WIDEBAND OSCILLOSCOPE. CONTROLS WERE SET TO PRODUCE PROPER N.T.S.C. COLOR BAR PATTERN CONSISTING OF GREEN, YELLOW, RED, MAGENTA, WHITE, CYAN AND BLUE BARS. PEAK TO PEAK VOLTAGES AND FREQUENCIES REMAIN IN THE SAME AS 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.
- See parts list
- ⊕ Denotes ground.
- 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 **CIRCUITRACE**

© Howard W. Sams & Co., Inc. 1966



CATHODE FOLLOWER
V3 B 6GH8A

VIDEO OUTPUT
V4 12HG7

HORIZ BLANKING AMP
V20 A 6GH8A

Z DEMODULATOR
V17 A 6GH8A

X DEMODULATOR
V18 A 6GH8A

COLOR KILLER
V19 A 6GH8A

CHROMA BANDPASS AMP
V16 A 6GH8A

BURST AMP
V19 B 6GH8A

3.58MC AMP
V20 B 6GH8A

DEFLECTION YOKE
V15

HORIZ OSC
FQ7/6CG7

HORIZ OUTPUT
V11 6JE6A

HV RECT
V13 3A3A

DO NOT MEASURE
FOCUS RECT
V14 2AV2

DO NOT MEASURE
HV REGULATOR
V15 6BK4B

DO NOT MEASURE
DAMPER
V17 6DW4

BLUE LINES
V107

GREEN LINES
V108

RED LINES
V109

WH-BLUE
V110

DEFLECTION YOKE
V15

HORIZ OSC
FQ7/6CG7

HORIZ OUTPUT
V11 6JE6A

HV RECT
V13 3A3A

DO NOT MEASURE
FOCUS RECT
V14 2AV2

DO NOT MEASURE
HV REGULATOR
V15 6BK4B

DO NOT MEASURE
DAMPER
V17 6DW4

BLUE LINES
V107

GREEN LINES
V108

RED LINES
V109

WH-BLUE
V110

RCA VICTOR CHASSIS
CTC20A, CTC20C

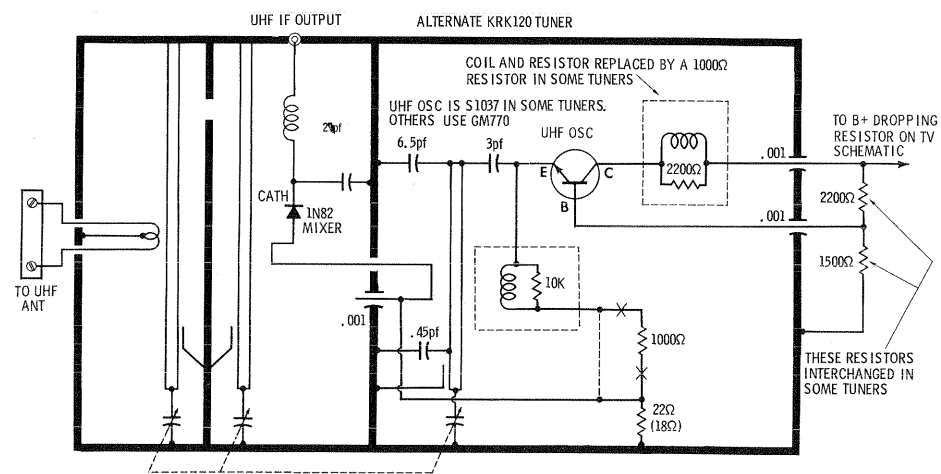
RESISTANCE MEASUREMENTS

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	6JD6	47Ω	320K	47Ω	FIL	FIL	0Ω	9040Ω †	9040Ω †	0Ω			
V2	6JC6	150Ω	.2Ω	150Ω	FIL	FIL	0Ω	12.5K †	12.5K †	0Ω			
V3	6GH8A	5140Ω †	4400Ω	7840Ω †	FIL	FIL	12.5K †	0Ω	830Ω	184K			
V4	12HG7	100Ω	230K	0Ω	FIL	FIL	FIL	4200Ω †	27K †	0Ω			
V5	6GH8A	90K †	46K	3040Ω †	FIL	FIL	720K †	14.5K	0Ω	5.6meg			
V6	6JC6	270Ω	7Ω	270Ω	FIL	FIL	0Ω	13.3K †	13.3K †	0Ω			
V7	6HZ6	5.5Ω	270Ω	FIL	FIL	561K †	8440Ω †	470K					
V8	6AQ5	NC	270Ω	FIL	FIL	4900Ω †	5140Ω †	250K					
V9	6GF7A	0Ω	2.6meg	1800Ω	FIL	FIL	910Ω †	NC	7.5meg ‡	510K			
V10	6FQ7/ 6CG7	18K	1.4meg	560Ω	FIL	FIL	60K †	230K	46Ω	NC			
V11	6JE6A	8087Ω †	10meg †	0Ω	FIL	FIL	10meg †	8087Ω †	1500Ω	NC			TOP CAP 10Ω ‡
V12	6DW4	NC	18Ω †	NC	FIL	FIL	NC	18Ω †	NC	3.5meg †			
V13	3A3A	PINS 1 THRU 8 HAVE INFINITE RESISTANCE										TOP CAP 590Ω ‡	
V14	2AV2	NC	NC	NC	56meg	56meg	NC	NC	NC	11Ω ‡			
V15	6BK4B	1017Ω †	FIL	NC	NC	1.65meg	NC	FIL	NC				TOP CAP INF
V16	6GH8A	53K †	220K	6140Ω †	FIL	FIL	2740Ω †	390Ω †	820Ω	1.05meg †			
V17	6GH8A	53K †	470Ω	2000Ω	FIL	FIL	7860Ω †	0Ω	820Ω	1.05meg †			
V18	6GH8A	53K †	470Ω	2000Ω	FIL	FIL	7860Ω †	0Ω	820Ω	1.05meg †			
V19	6GH8A	370K	29K	1240Ω †	FIL	FIL	28.6Ω †	27K	0Ω	2.2meg			
V20	6GH8A	68K †	47K	48K	FIL	FIL	8040Ω †	0Ω	390Ω	200K †			
V21	21FJP22A	FIL	520K †	4.4meg ‡	3900Ω †	3900Ω †	490K †	4.3meg ‡	NC	75meg	NC	4.2meg ‡	500K
							Pin 13 3900Ω	Pin 14 FIL					
V201	6DS4	NC	17.5K †	NC	3meg	NC	NC	0Ω	NC	FIL	NC	FIL	
V202	6KE8	8410Ω †	82K	83K †	FIL	FIL	84K †	0Ω	84K †	89.6K †			

† MEASURED FROM OUTPUT OF X2 AND X4.

NC NO CONNECTION

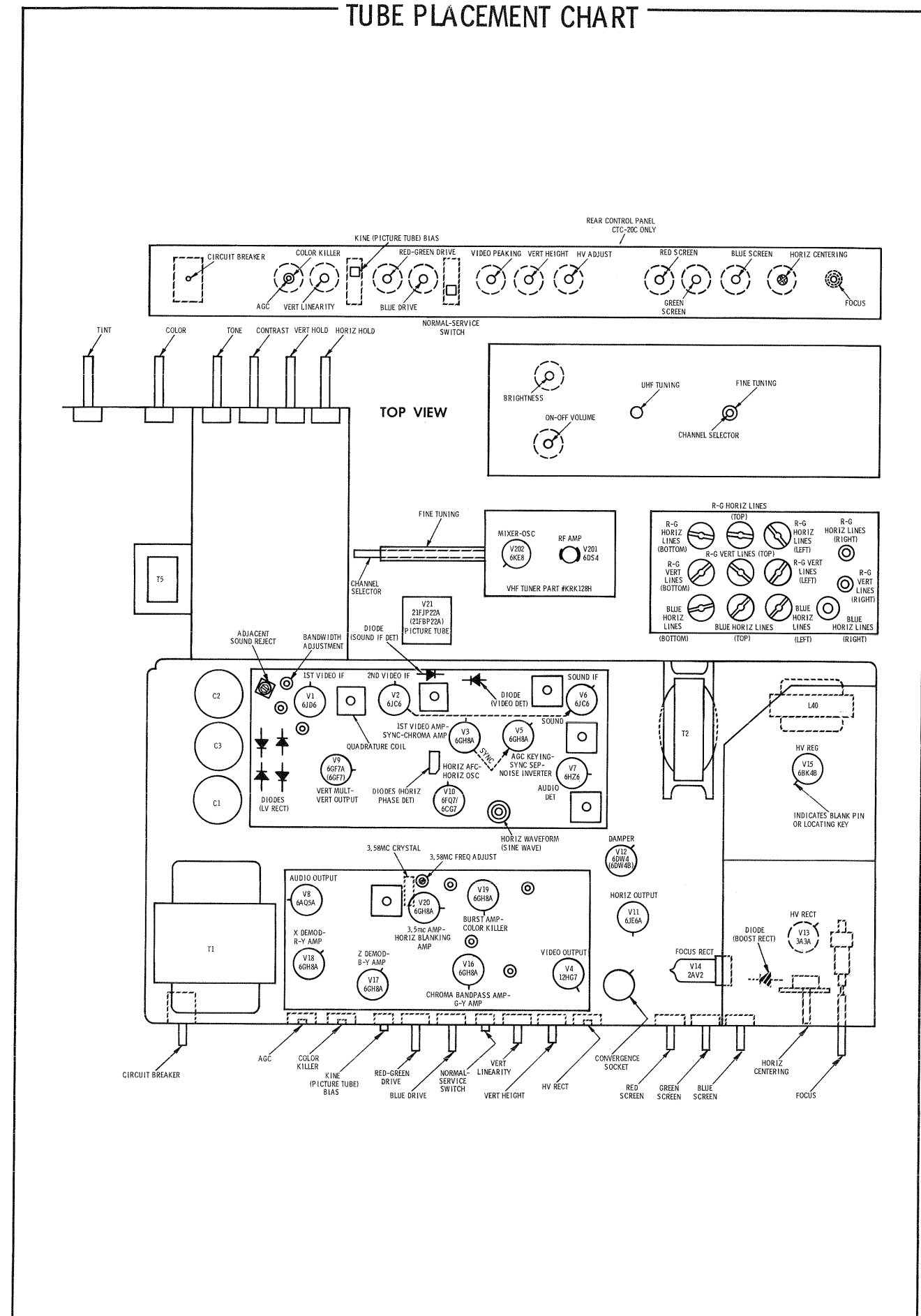
‡ MEASURED FROM PIN 9 OF V12.



A PHOTOFAC STANDARD NOTATION SCHEMATIC
© Howard W. Sams & Co., Inc. 1966

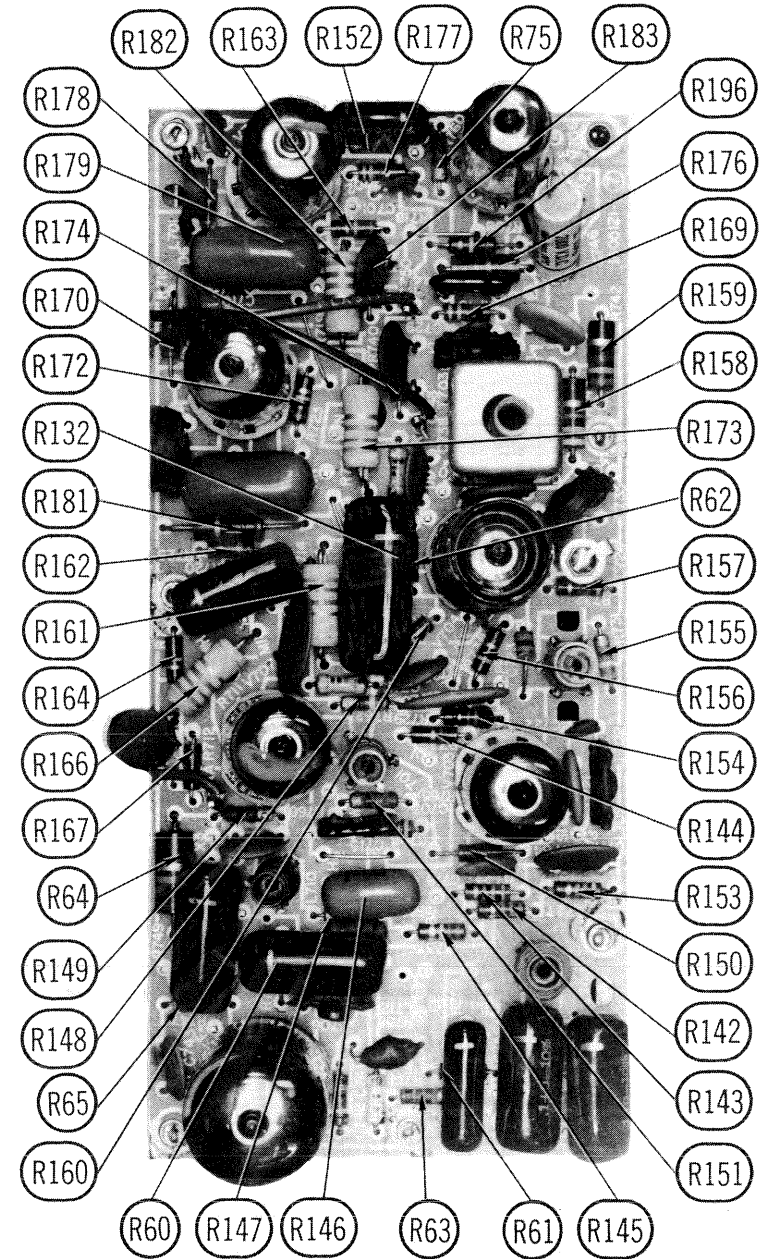
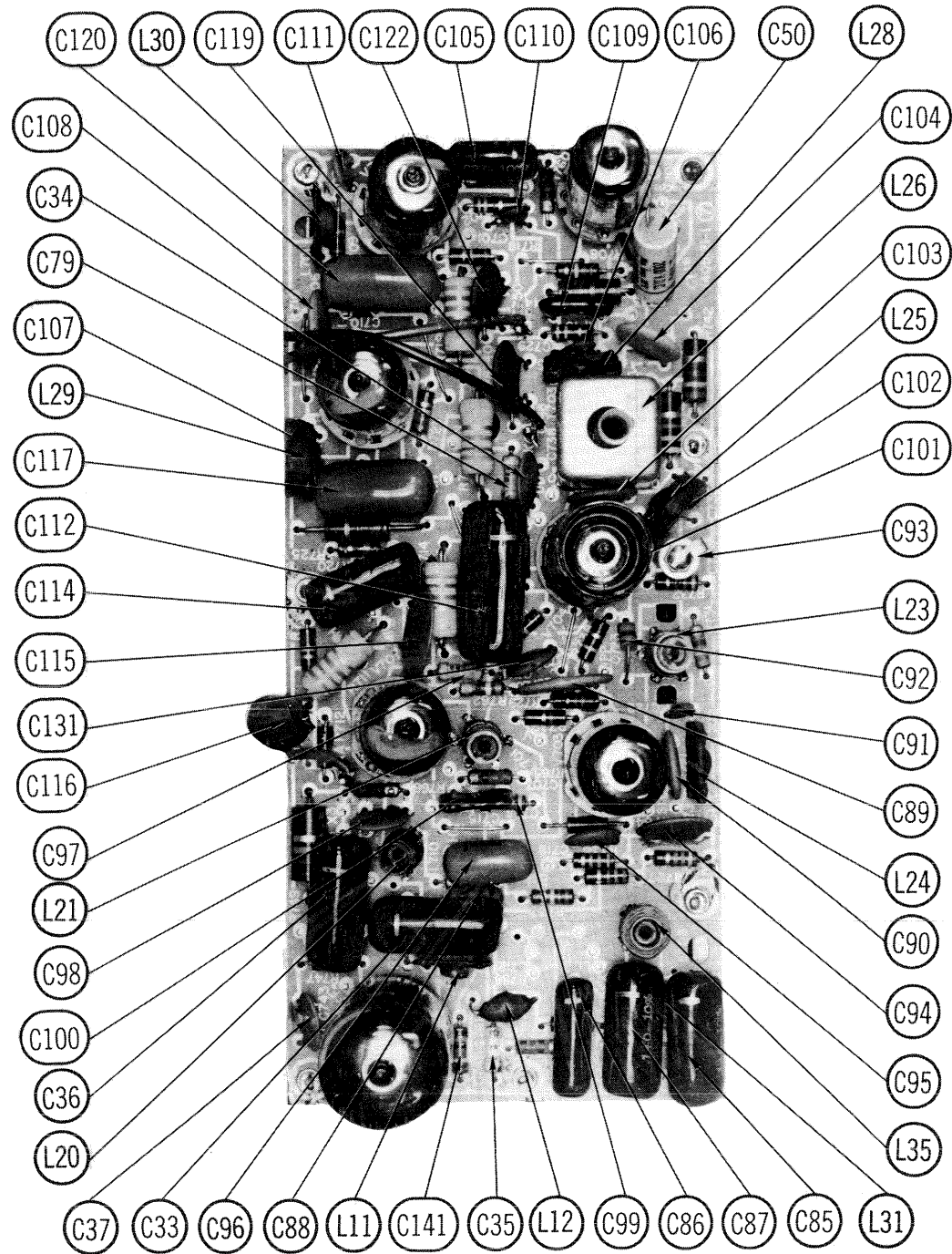
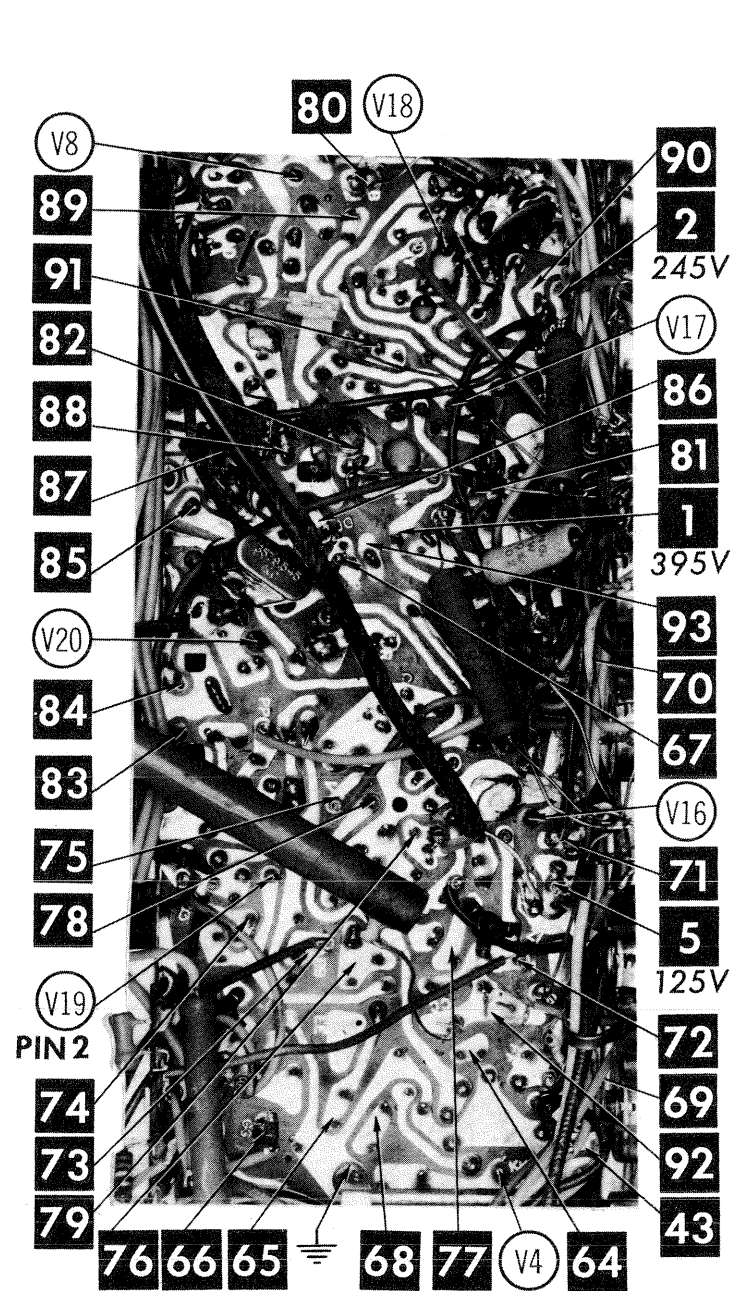
UHF TUNER KRK120

TUBE PLACEMENT CHART



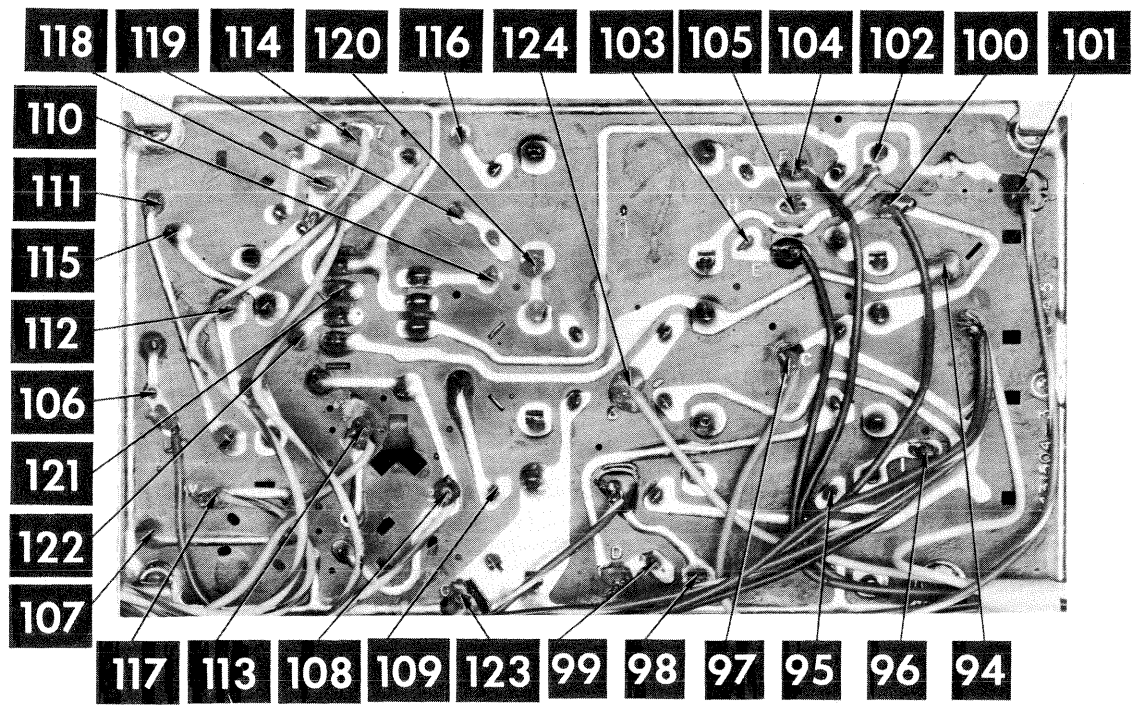
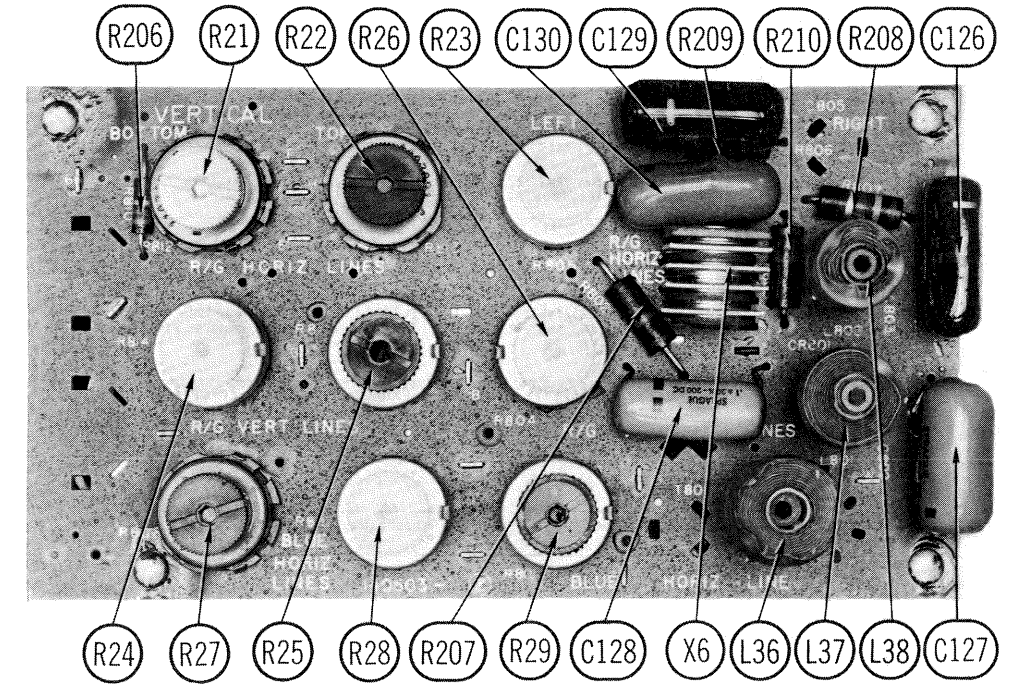
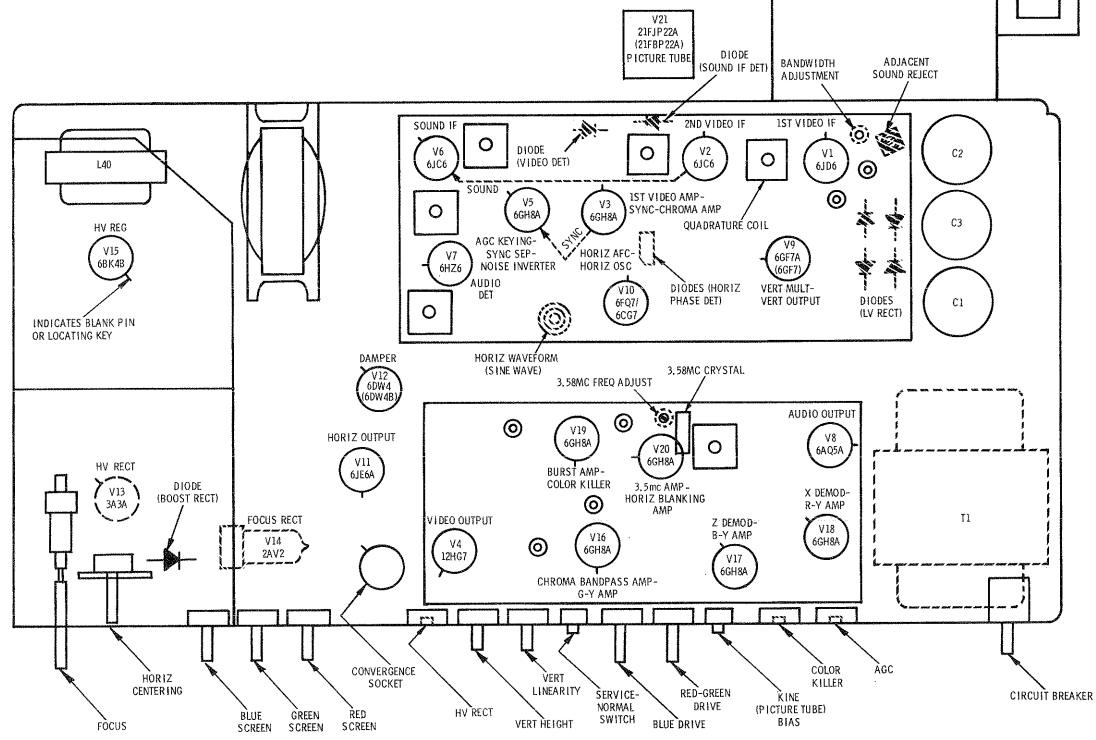
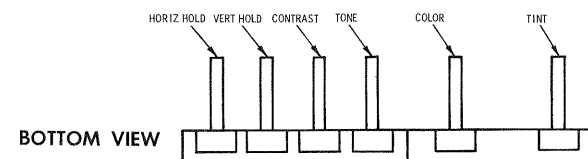
RCA VICTOR CHASSIS
CTC20A, CTC20C

FOLDER 2



VIDEO OUTPUT — CHROMA PRINTED BOARD

TUBE PLACEMENT CHART



CONVERGENCE PRINTED BOARD A Howard W. Sams CIRCUITRACE® Photo

RCA VICTOR CHASSIS
CTC20A, CTC20C

FOLDER 2

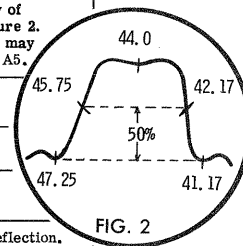
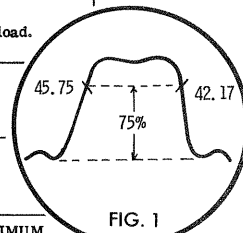
ALIGNMENT INSTRUCTIONS

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 A8, A10 thru A14. GENERAL CEMENT 8806, 8869, 9302 ... WALSCO 2511, 2543, 2588
A9 GENERAL CEMENT 8868, 8987, 9089 ... WALSCO 2531-X, 2541, 2587
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 DC probe of a VTVM thru a 47K resistor to point \diamond . Common to ground.	Connect high side to Point \diamond on VHF Tuner. Low side to ground.		41.25MC 47.25MC	A1, A2 A3, R20	Adjust for MINIMUM.
2. Connect vertical input of a scope to point \diamond . Low side to ground.	Connect high side to pin 2 (grid) of V2. Low side to ground.	44MC (10MC Sweep)	42.17MC 45.75MC	A4 A5	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
3. Connect vertical input of a scope to point \diamond . Low side to ground.	Connect high side to Point \diamond on VHF Tuner. Low side to ground.	44MC (10MC Sweep)	41.25MC 42.17MC 44.0MC 45.75MC 47.25MC	A6, A7, A8, A9, Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 2. In order to obtain a proper response, it may be necessary to slightly retouch A4 and A5.



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 A14 for MINIMUM beat interference.

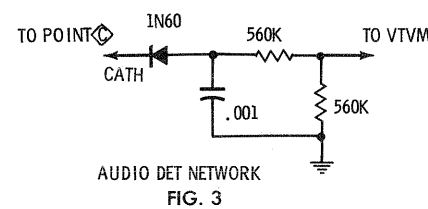
SOUND IF ALIGNMENT

Connect a VTVM thru Audio Detector network (Fig. 3) to point \diamond . Tune in a TV station and adjust A10, A11 and A12 for maximum deflection. Remove VTVM and Audio Detector network. Reduce signal at the antenna terminals until distortion occurs in the sound. Adjust A13 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.

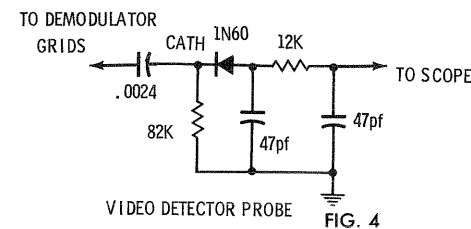
CHROMA BANDPASS ALIGNMENT

The following alignment will require the use of an RF Modulator (RCA WG304A or equivalent). Connect -2 volt supply to point \diamond . Connect a -15 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 400V source to ground. Suggested Alignment Tools: A12, A13, A14 ... GENERAL CEMENT 8806, 8806L, 8869 ... WALSCO 2543, 2544, 2588.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
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 Video Detector Probe (Fig. 4) to pin 3 of demodulators, point \diamond . Low side to ground.	A15, A16	Adjust for response curve similar to Fig. 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 Generator to 3MC (6 MC Sweep)	"		"	A17	Adjust for response curve similar to Fig. 6. If necessary, retouch A15 to flatten top of response.



AUDIO DET NETWORK
FIG. 3



VIDEO DETECTOR PROBE
FIG. 4

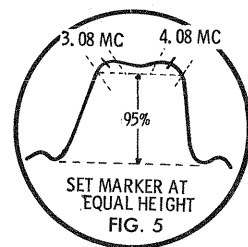


FIG. 5

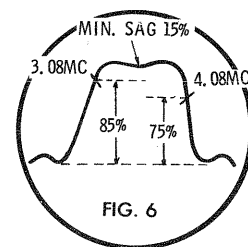


FIG. 6

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.
A clip lead from point \diamond to ground.
A jumper across Horizontal Waveform Coil (Sine Wave), L33, pin 8 of Horizontal Multivibrator, V10, to ground.

Tune in a TV station and set all controls for normal operation. Adjust Horizontal Hold Control until picture "floats" with blanking bars vertical. Remove jumper from L33 and adjust Slug, B1, until the picture "floats" horizontally. Remove clip lead from point \diamond . Adjust Horizontal Linearity Coil for MINIMUM current in cathode of the Horizontal output tube. (Current should not exceed 220ma.)

Adjust High Voltage Adjust Control for 25KV on picture tube anode with normal brightness. Check voltage drop across R141 (cathode circuit of High Voltage Regulator, V15) for MINIMUM voltage drop of .96 volts and maximum of 1.25 volts. If voltage drop is below .96 volts, adjust Horizontal Linearity Coil one-half turn clockwise. Check to see that horizontal output current does not exceed 220ma. Adjust the Focus, Height, and Vertical Linearity Controls.

COLOR AFC ALIGNMENT

Set Color Killer Control to fully clockwise position. Connect a color bar generator to antenna terminals. Adjust Color Control to normal viewing level and set Tint Control to midrange. Short pin 2 of Burst Amp., V19B, to ground.

Connect DC probe of VTVM through a 470K resistor to pin 2 of 3.58MC Amp., V20B, common to ground. Adjust A18 for MINIMUM indication on VTVM. Remove VTVM. Adjust A19 for zero beat (color bars stand still or "float" slowly across screen). Remove short from pin 2 of Burst Amp. Connect DC probe of VTVM through a 470K resistor to pin 2 of "Z" demodulator, V17A, common to ground. Adjust A20 for maximum indication on VTVM. Remove VTVM.

PURITY ADJUSTMENTS

On sets equipped with automatic degaussing it may be necessary to use a manual degaussing coil to demagnetize picture tube and mounting brackets to insure proper demagnetization during initial setup.

Perform step 1 of "Convergence Adjustments". Short point \diamond (Green screen) and point \diamond (Blue screen) to ground, or turn Green and Blue Screen controls fully counterclockwise. Loosen deflection yoke clamp and slide yoke rearward until it is against convergence yoke assembly.

Adjust tabs on the Purity magnet and rotate the assembly until a red spot appears at the center of the picture tube. Slide the deflection forward to obtain uniform red over entire picture tube face. A low power microscope is useful to observe the beam landings. (Remove the shorts from points \diamond and \diamond .)

GRAY SCALE ADJUSTMENTS

Tune in a black and white picture or a color picture with the Color control set to MINIMUM. Set the Kine Bias switch to high bias position (toward top of chassis). Turn the Red, Green and Blue Screen Controls fully counterclockwise. Set the Green and Blue Drive Controls to about 75% clockwise rotation. Move Normal-Service switch to "Service" position. Advance Screen Controls, one at a time, until each produces a barely visible line on the screen. If any control fails to produce a line, leave that control at maximum and turn the other two controls to MINIMUM. Move the Kine Bias switch to either the middle or down position. Advance the remaining two screen controls, one at a time, until a barely visible line appears. Return 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 Vertical 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 center line (Fig. B).
3.	R-G Horizontal 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. B).
4.	Blue Horizontal 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 Horizontal 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 Horizontal lines, Left	Blue horizontal bars at left side of screen.	
8.	R-G Vertical lines, Right	Red and Green vertical lines at right side of screen.	(Fig. E)
9.	R-G Horizontal lines, Right	Red and Green horizontal bars at right side of screen.	Use control to converge blue bar with red and green bars on right side of screen (Fig. E).
10.	R-G Vertical lines, Left	Red and Green vertical bars at right side of screen.	(Fig. E)
11.	R-G Horizontal lines, Left	Red and Green horizontal bars at left side of screen.	Use control to converge blue bar with red and green bars at left side of screen (Fig. E).

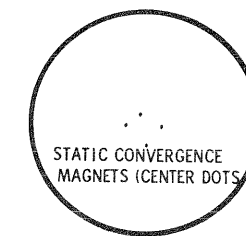


FIG. A

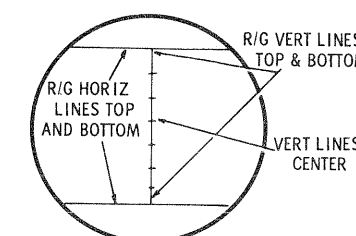


FIG. B
(RED & GREEN ONLY)

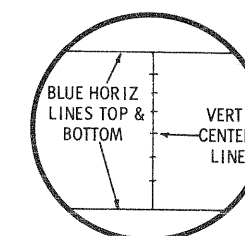


FIG. C
(BLUE BARS)

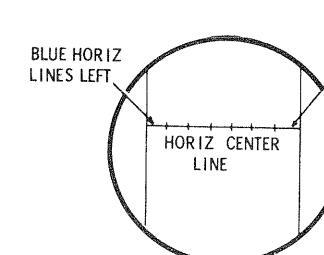


FIG. D
(BLUE BARS)

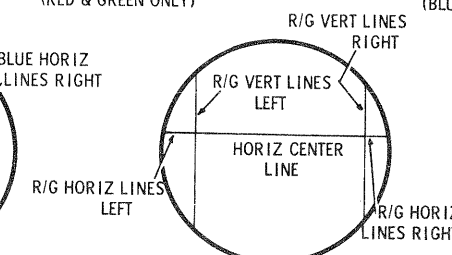
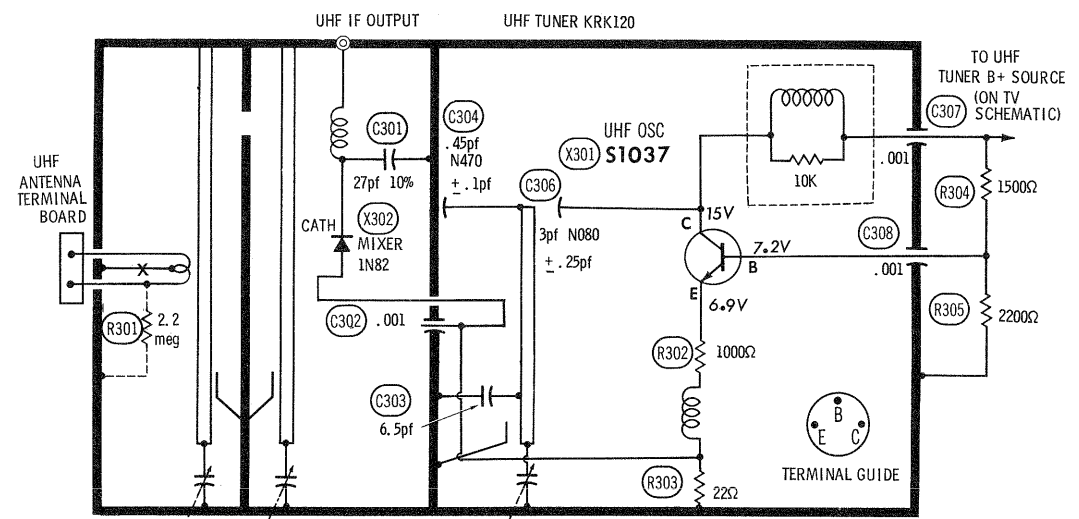


FIG. E

RCA VICTOR CHASSIS
CTC20A, CTC20C

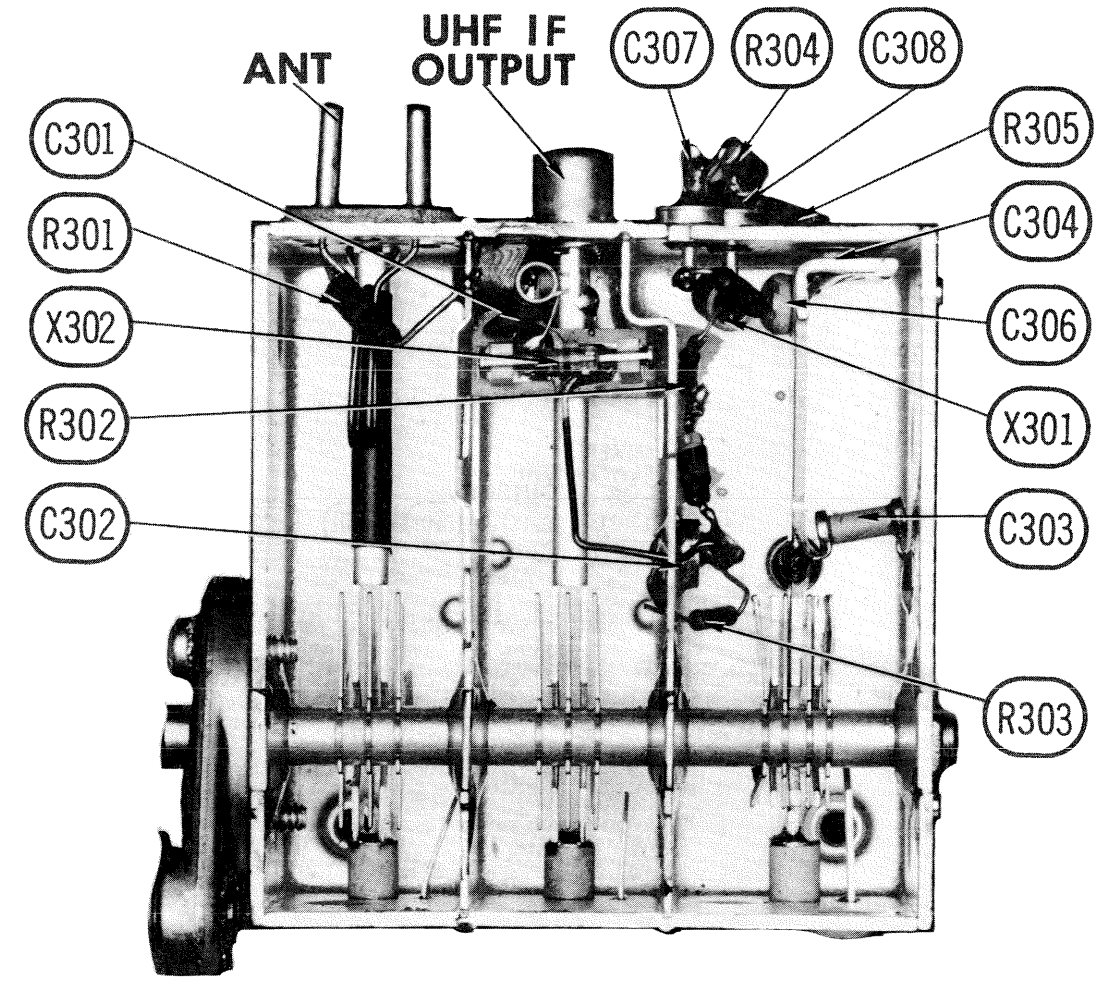
FOLDER 2



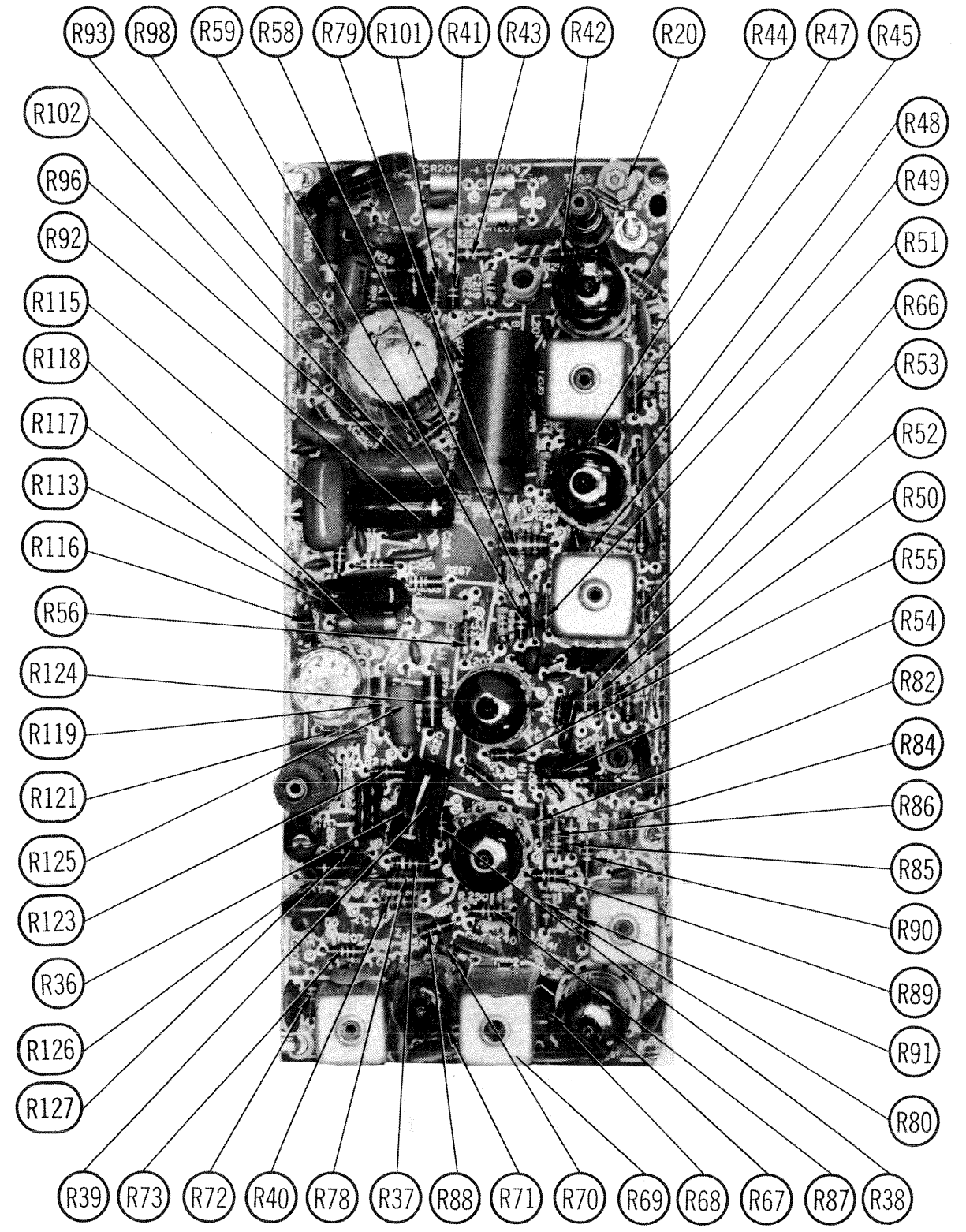
A PHOTOFAC STANDARD NOTATION SCHEMATIC
 © Howard W. Sams & Co. Inc., 1966

R304 AND R305 INTERCHANGED IN SOME TUNERS
 C303 AND C304 INTERCHANGED IN SOME TUNERS
 X301 IS TYPE 35449 IN SOME TUNERS

UHF TUNER KRK120 SCHEMATIC ON PAGE 22



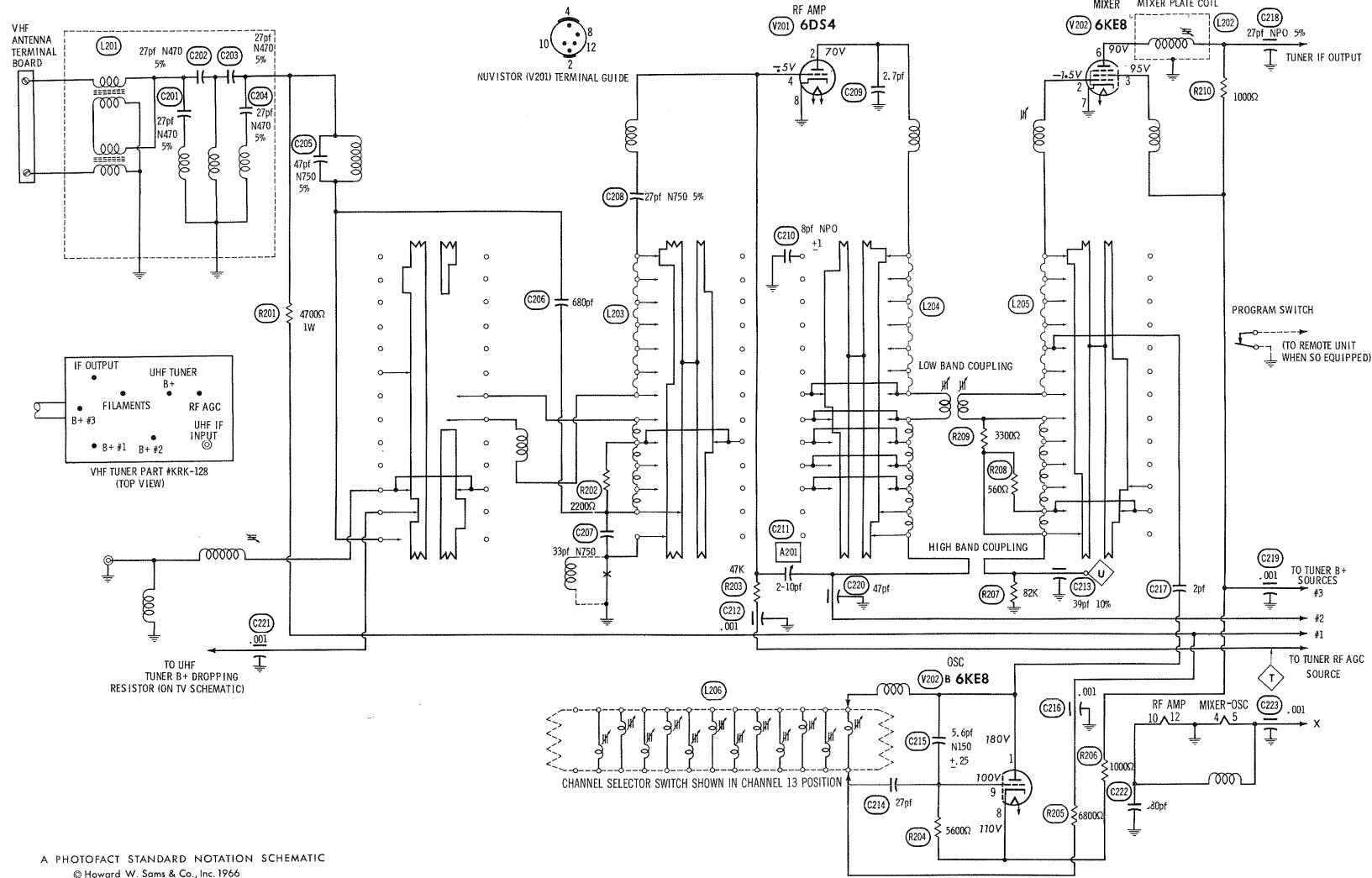
UHF TUNER KRK120JAB, RB, TB, UB



VIDEO IF, AGC, SYNC, SWEEP PRINTED BOARD

RCA VICTOR CHASSIS
 CTC20A, CTC20C

FOLDER 2



A PHOTOFAC STANDARD NOTATION SCHEMATIC
© Howard W. Sams & Co., Inc. 1966

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.

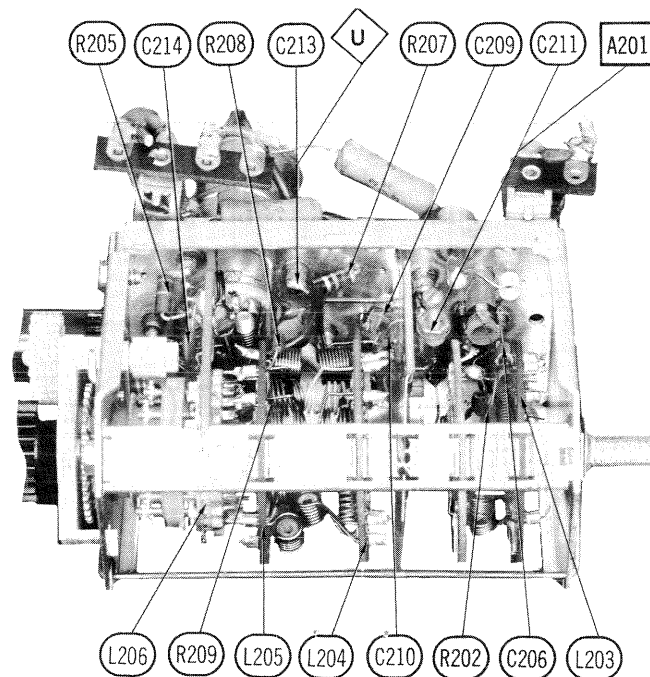
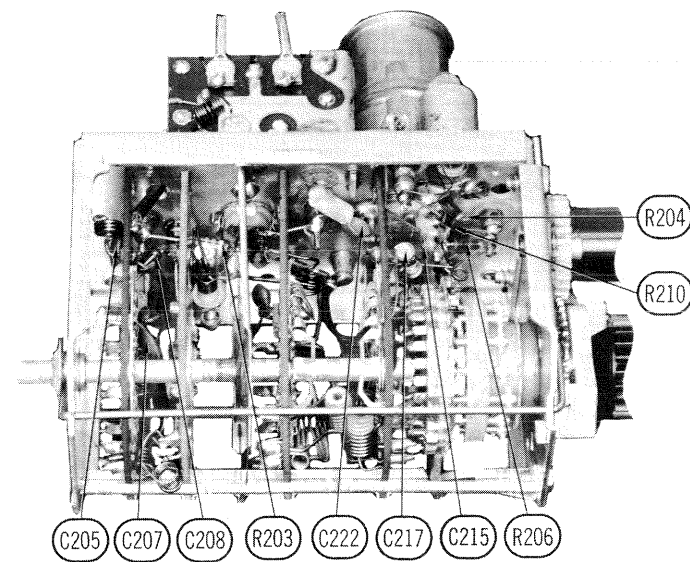
RF AND MIXER ALIGNMENT

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 \diamond . Adjust bias to obtain response curve which shows no indication of overloading.

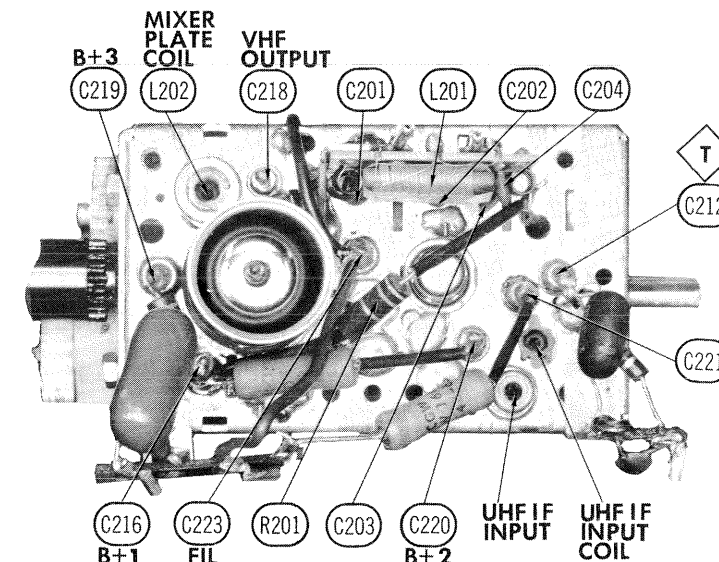
SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Across antenna terminals with 120 Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. Input to Point \diamond , low side to ground		Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2. "	195MC	193.25MC 197.75MC	10	Across Video Det. load resistor.	A201	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3. "	See Chart	See Chart	12 thru 2	Vert. Input to Point \diamond , 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		
79MC	77.25MC 81.75MC	5	189MC	187.25MC 191.75MC	9	213MC	211.25MC 215.75MC	13		

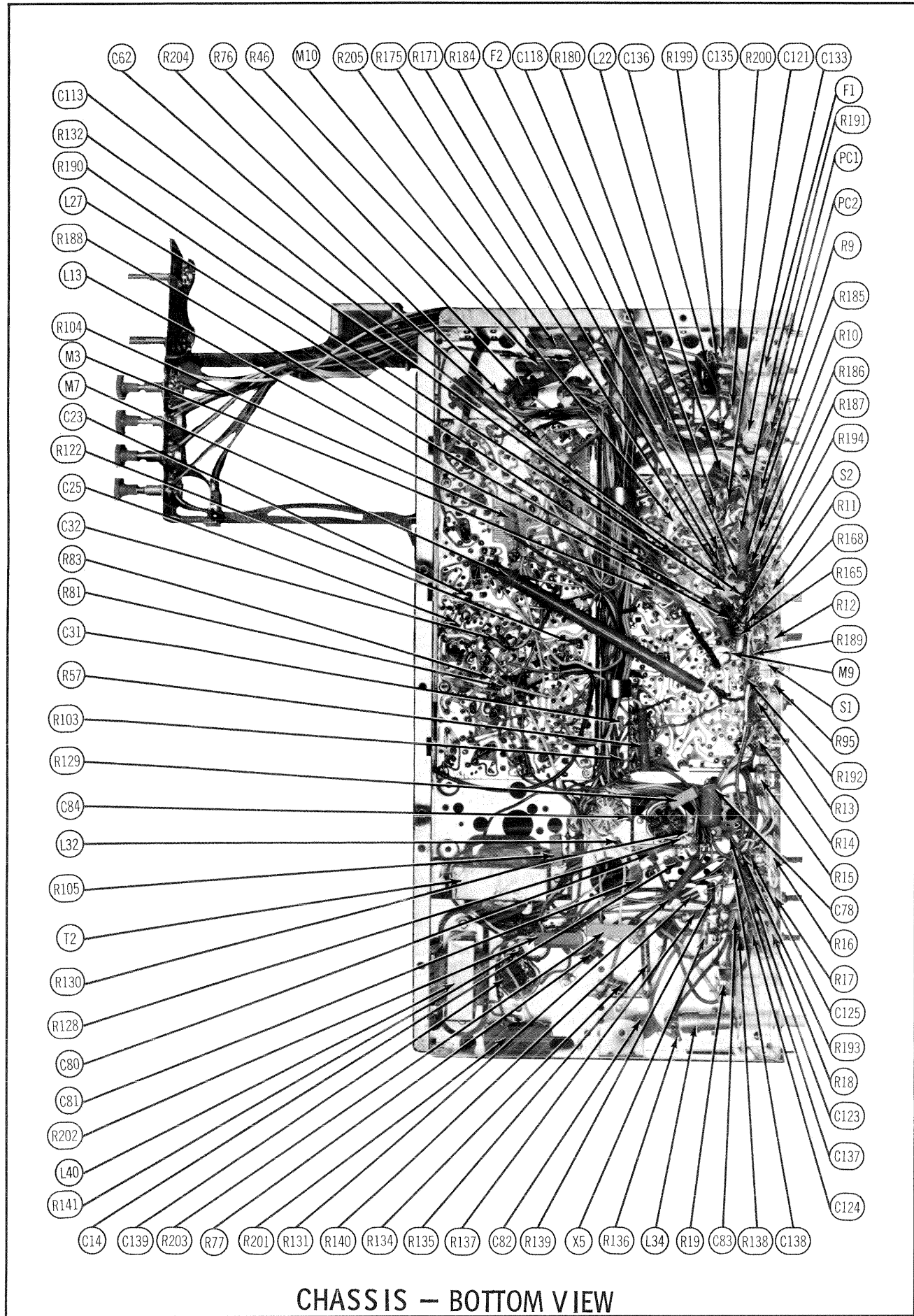


VHF TUNER KRK128H, N

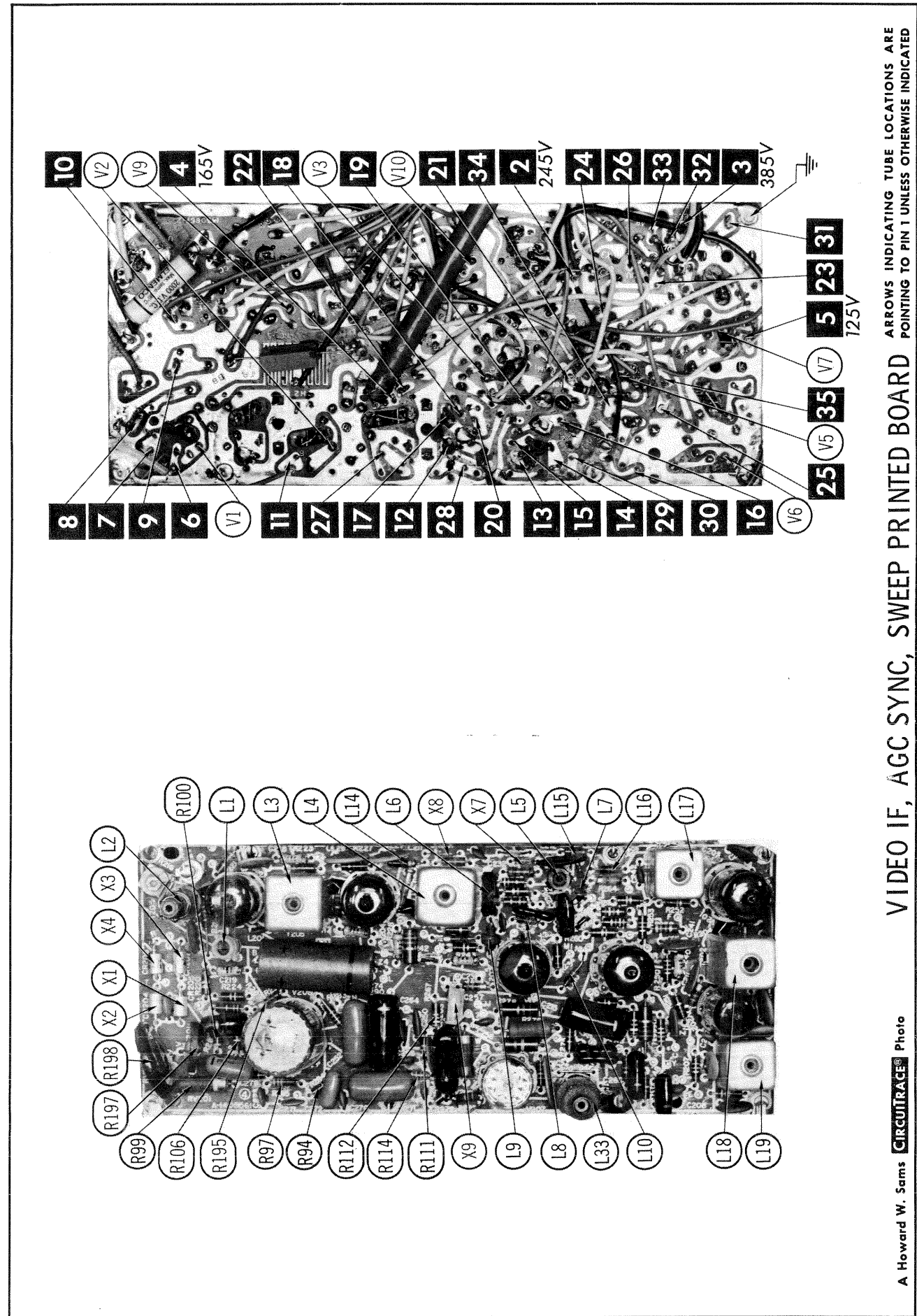


RCA VICTOR CHASSIS
C1C20A, C1C20C

FOLDER 2



CHASSIS - BOTTOM VIEW



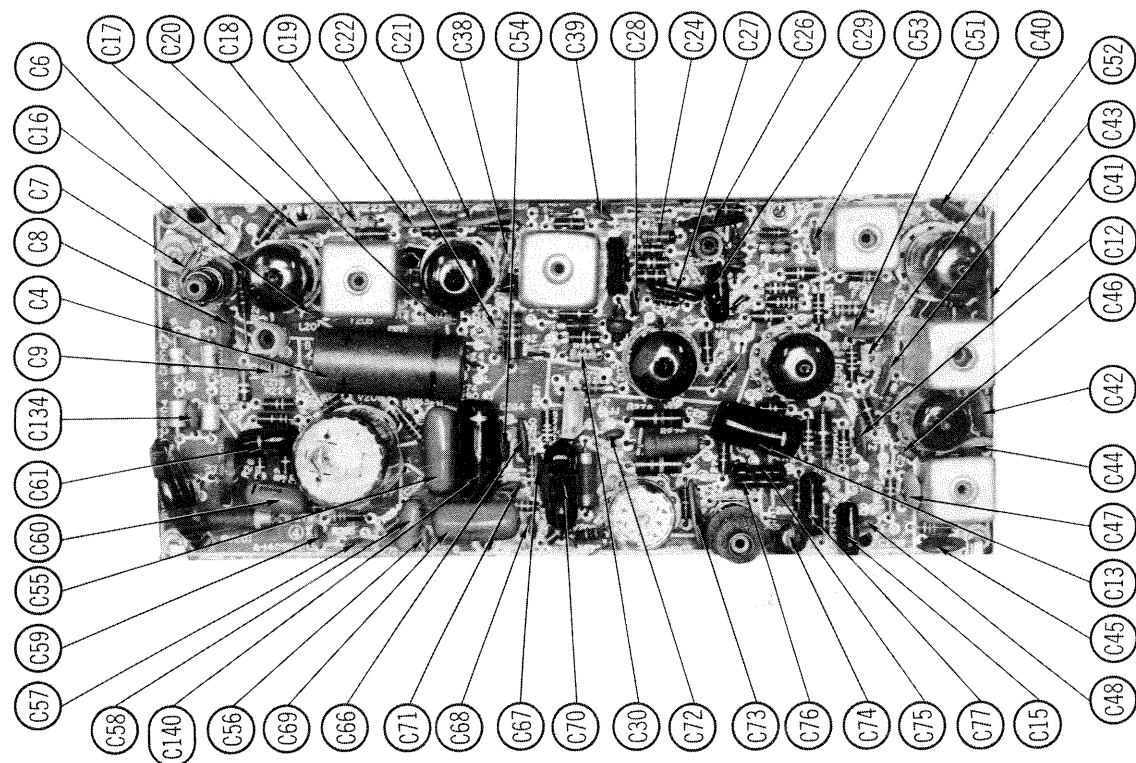
ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED

VIDEO IF, AGC SYNC, SWEEP PRINTED BOARD

RCA VICTOR CHASSIS
CTC20A, CTC20C

A Howard W. Sams PHOTO CIRCUITRACE

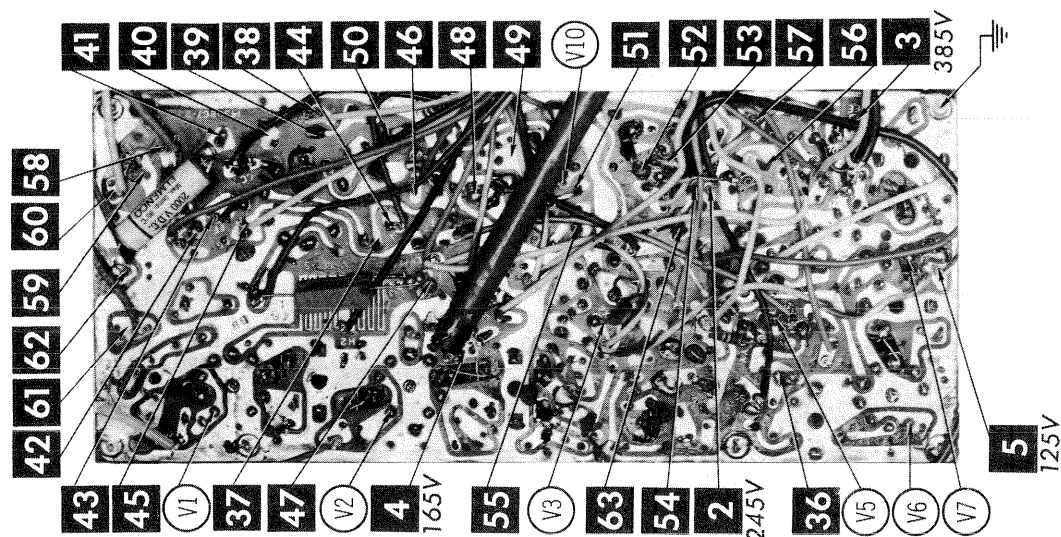
FOLDER 2



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

VIDEO IF, AGC, SYNC, SWEEP PRINTED BOARD

A Howard W. Sams CIRCUITRAGE Photo



VHF TUNER PARTS LIST AND DESCRIPTION

TUBES

ITEM No.	USE	TYPE	AMPEREX		GENERAL ELECTRIC		RCA		SYLVANIA	
			ITEM No.	USE	ITEM No.	USE	ITEM No.	USE	ITEM No.	USE
V201	RF Amp.	6DS4					V202	Mixer - Osc.		6KE8

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.	
C201	27 N470 5%			TCN-27				CN7427	10TCU-Q27
C202	27 N470 5%			TCN-27				CN7427	10TCU-Q27
C203	27 N470 5%			TCN-27				CN7427	10TCU-Q27
C204	27 N470 5%			TCN-27				CN7427	10TCU-Q27
C205	47 N750 5%		N750-DI 47	DTN-47	CX601UJ47K	CCTN-471		CN7447	10TCU-Q47
C206	680		BPD-00068	DD-681	BYZ601ZU681P	CCD-681	B368	CN7427	5GA-T68
C207	33 N750		N750-DI 33	DTN-33	CS601UJ330K	CCTN-330		CN7433	10TCU-Q33
C208	27 N750 5%			TCN-27				CN7427	10TCU-Q27
C209	2.7		NPO-DI 2.2	DTZ-2R2	CZ601CJ2R2D	CCTO-2R2		CNO522	10TCC-V22
C210	8		NPO-DI 8.2						10TCC-V82
C211	2-10	#112038		829-10					
C212	.001		EF-001	MFT-1000			CCF-102	CT280A	
C213	39 10%	#112040			JBZ601YP501K				
C214	27 NPO 5%								
C215	5.6 N150 ±.25	#114912							10TCP-V56
C216	.001		EF-001	MFT-1000			CCF-102	CT280A	10TCC-V22
C217	2		NPO-DI 2.2	DTZ-2R2	CZ601CJ2R2D	CCTO-2R2		CNO522	
C218	27 NPO 5%	#114913							
C219	.001	#112039	EF-001	MFT-1000			CCF-102	CT280A	
C220	47								
C221	.001		EF-001	MFT-1000			CCF-102	CT280A	
C222	680		BPD-00068	DD-681	BYZ601ZU681P	CCD-681	B368	CN7427	5GA-T68
C223	.001		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 Wafer	116590	
L202	Mixer Plate	112909		L205	Mixer Wafer	116591	
L203	Ant. Wafer	113977		L206	Osc. Wafer	114837	

MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
	Bearing	114798	Rear
	Bushing	114792	Fine Tuning
	Cam	114804	Fine Tuning
	Cover	114806	Outer
	Gear	114808	Driven
	Plate	115510	Front

UHF TUNER PARTS LIST AND DESCRIPTION

UHF TUNER KRK120

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X301	S1037	UHF Oscillator				RCA Victor Part #113938

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS				DIODES
			GENERAL ELECTRIC PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.	GENERAL ELECTRIC PART No.
X302		107729 (1N82)					1N82A

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.	
C301	27								
C302	.001		EF-001	MFT-1000			CCF-102	CT280A	10TCC-V68
C303	6.5			TCZ-6R8			CCTO-6R8	CNO568	
C304	.45pf N470 ±.1pf			TCZ-R5					
C305	3 N080 ±.25pf						*		
C307	.001		EF-001	MFT-1000			CCF-102	CT280A	
C308	.001		EF-001	MFT-1000			CCF-102	CT280A	

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

RCA VICTOR CHASSIS
CTC20A, CTC20C

FOLDER 2

CAPACITORS

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 COUNTERFACTS for the most up-to-date replacement.

Table with columns: ITEM No., RATING, REMARKS, REPLACEMENT DATA (AEROVOX, CENTRALAB, CORNELL-DUBILIER, ELMENCO, MALLORY, SPRAGUE).

CAPACITORS (cont)

Table with columns: ITEM No., RATING, REMARKS, REPLACEMENT DATA (AEROVOX, CENTRALAB, CORNELL-DUBILIER, ELMENCO, MALLORY, SPRAGUE).

* Not normally in distributor's stock. Available thru distributor on order to manufacturer. # RCA Victor Part Number. Includes Spark Gap.

CONTROLS

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

Table with columns: ITEM No., USE, RESISTANCE, REPLACEMENT DATA (RCA Victor, CENTRALAB, CLAROSTAT, CTS-IRC, MALLORY).

CONTROLS (cont)

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

Table with columns: ITEM No., USE, RESISTANCE, REPLACEMENT DATA (RCA Victor, CENTRALAB, CLAROSTAT, CTS-IRC, MALLORY).

1 The point incorporated in the original Volume control should be provided for in another manner. * "SNAPTROL" 2 Use original nylon Tab Mount. 3 Alternate Part, used in Models FH537M/W, GH608M/W, GH626M/W, GH630W and GH636S with Tuner Mounting Assembly, #TMA96K and Chassis CTC20C. 4 Part #119171 used in Models FH537M/W, GH608M/W, GH626M/W, GH630W and GH636S with Tuner Mounting Assembly, #TMA96K and Chassis CTC20C. 5 Alternate Part, used in Models FG543E/M/W/Y and GG579M/W/Y.

RESISTORS (Power and Special)

Table with columns: ITEM No., RATING, REPLACEMENT DATA (IRC, WORKMAN, RCA Victor).

† Voltage Dependent Resistor

COILS (RF-IF)

Table with columns: ITEM No., USE, REPLACEMENT DATA (RCA Victor, MEISSNER, MILLER, WORKMAN).

1 Wound on 12K Resistor. 2 Wound on 2200Ω Resistor. † Shunt with 68K Resistor. * Shunt with 12K Resistor. ** Shunt with 2200Ω Resistor.

RCA VICTOR CHASSIS CTC20A, CTC20C

FOLDER 2