

PHOTOFACT® Folder

with CIRCUITRACE®

For Supplier Address See PHOTOFACT Index

32
RCA CHASSIS CTC38A/
38B/38H/38XP/38XR/38XT/38XU

COLOR TV

RCA CHASSIS CTC38A/
38B/38H/38XP/38XR/38XT/38XU

MODEL GL628WR

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 CTP11H, Transmitter CRK9A
Set 1000, Folder 3-A

MODELS:

CHASSIS

FL514WK, FL536W, FL544WK ... CTC38XP
GL550M/W, GL568L, GL610W ... CTC38A
GL611M/W, GL613W, GL615L ... CTC38H
GL620M/W, GL644W, GL758WK ... CTC38A
GL628M/W, GL630W, GL634L ... CTC38XP
GL664F, GL666L, GL670F/Y ... CTC38XT
GL676S, GL800GK/SK/YK ... CTC38XT
GL802LK, GL804FK ... CTC38XT
GL682W, GL688W, GL760WK ... CTC38XP
GL766LK, GL772SK, GL788WK ... CTC38XP
GL790FK, GL792LK, GL798SK ... CTC38XP

MODELS With REMOTE CONTROL:

CHASSIS

FL544WRK, GL628WR, GL630WR, GL634LR .. CTC38XR
GL550WR, GL611WR CTC38B

GL664FR, GL666LR, GL670FR CTC38XU
GL682WR, GL760WRK, GL788WRK CTC38XR

Remote Transmitter CRK9A, Remote Receiver CTP11H

SAFETY PRECAUTIONS

Make sure line voltage does not exceed rating of set.

Check high-voltage regulation and adjust to correct value.

Be sure shields and rear cover are in place and secure.

Beware of shock from high voltage or AC line. Discharge high voltage to HV cage only.

Use extreme care when handling picture tube. Do not bump, scratch, or exert undue strain.

SERVICING IN THE FIELD

SAFETY GLASS

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

FUSE OR FUSE DEVICE

A 1-inch length of fuse wire is used for A C protection. For location, see F3 in photo "Chassis - Bottom View".

A 3 1/2-inch 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 "Cabinet Rear View Photo" 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 "Cabinet Rear View Photo" for location.)

FOCUS

The focus may be varied by means of a Focus Coil. (See "Cabinet Rear View Photo" for location.)

REMEMBER TO ASK— "What else needs fixing?"

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. SB951

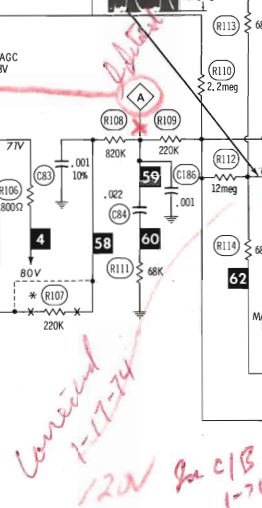


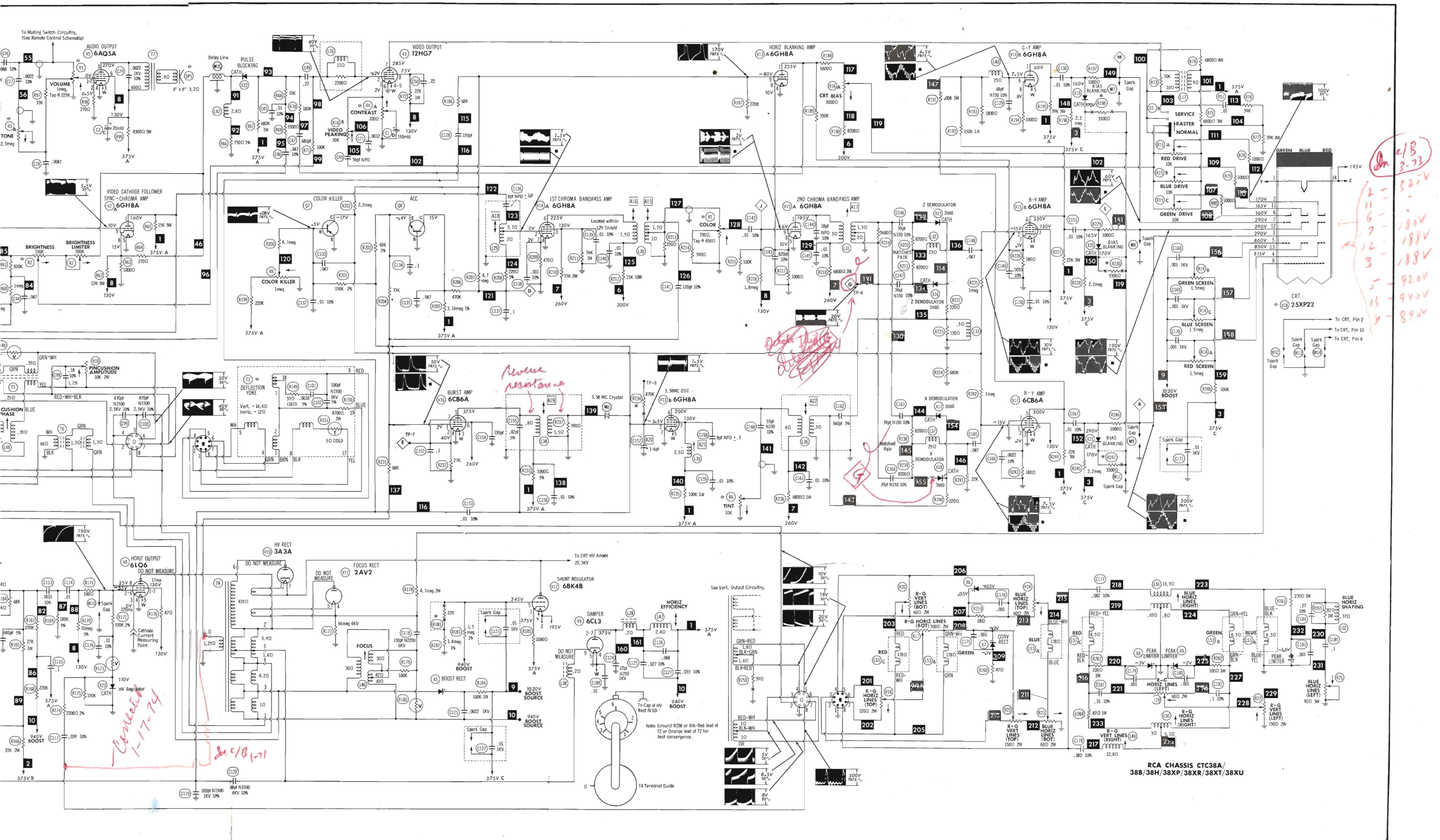
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DATE 12-68

SET 1000 FOLDER 3

RCA CHASSIS CTC38A/
38B/38H/38XP/38XR/38XT/38XU

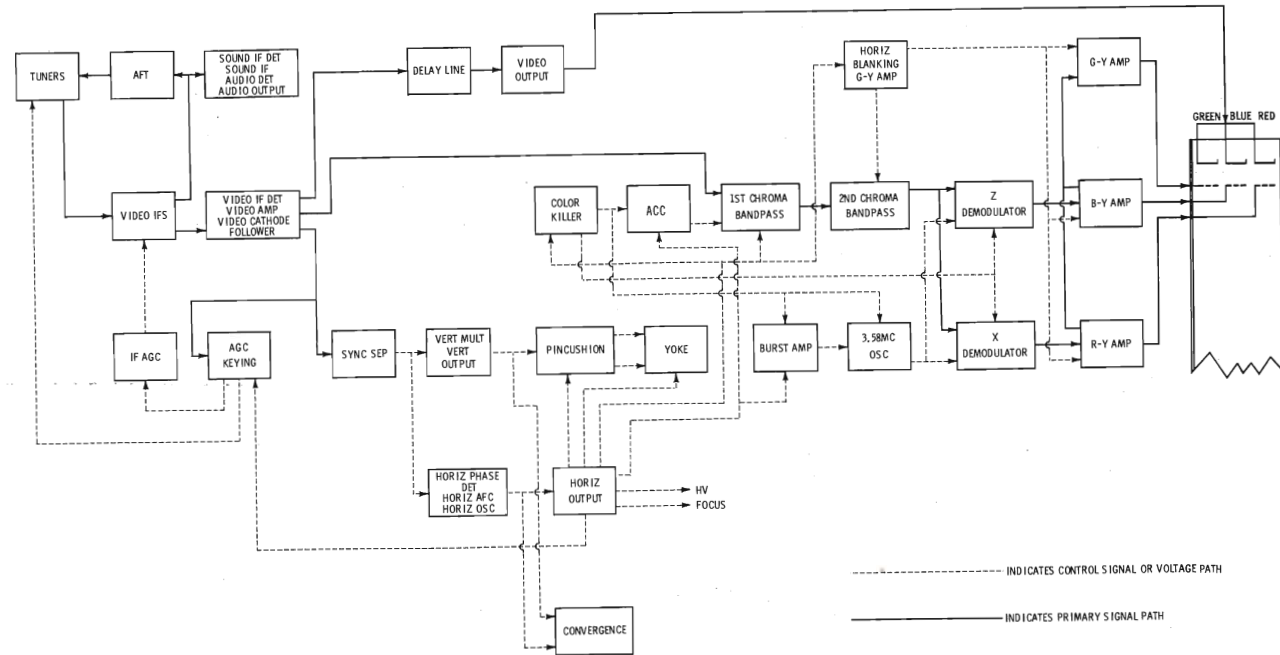




RESISTANCE MEASUREMENTS

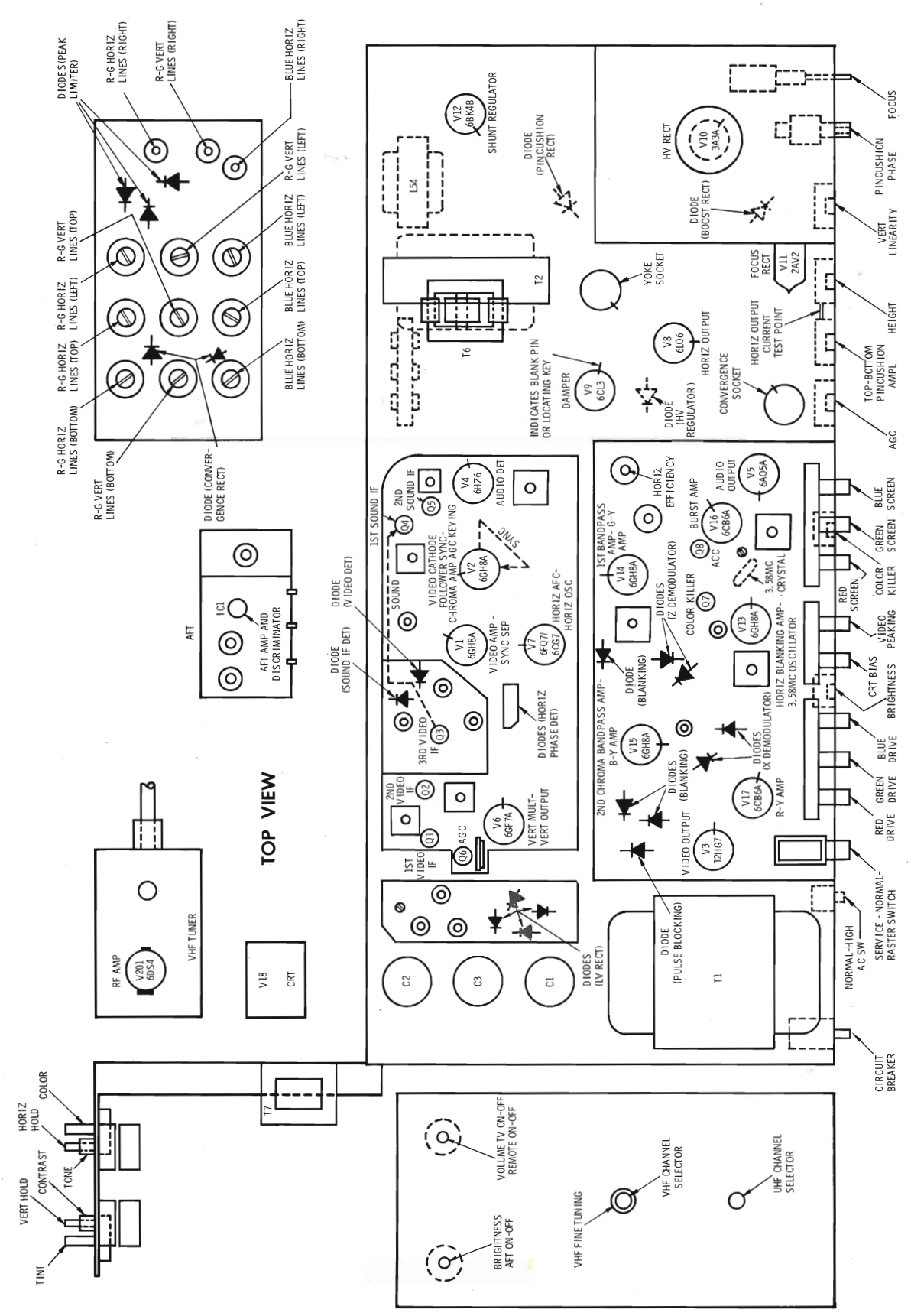
ITEM	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	TOP CAP
V1	6GH8A	70K	4500Ω	3500Ω †	FIL	FIL	10.5K †	220Ω	0Ω	5.6meg				
V2	6GH8A	15K †	38K	5500Ω †	FIL	FIL	1.8meg	22K	520Ω	2.5meg				
V3	12HG7	100Ω	250K	NC	FIL	FIL	FIL	3900Ω †	26K †	0Ω				
V4	6HZ6	2.2Ω	270Ω	FIL	FIL	560K †	6800Ω †	470K						
V5	6AQ5A	250K	270Ω	FIL	FIL	5400Ω †	3500Ω †	NC						
V6	6GF7A	0Ω	3meg	1400Ω	FIL	FIL	900Ω †	NC	4.2meg †	270K				
V7	6FQ7/6CG7	20K	1.3meg	560Ω	FIL	FIL	50K †	180K	45Ω	0Ω				
V8	6LQ6	3600Ω †	10meg	0Ω	FIL	FIL	10meg	3600Ω †	840Ω	NC				4.5Ω †
V9	6CL3	NC	29Ω †	NC	FIL	FIL	TP	29Ω †	NC	410K				
V10	3A3A	PINS 1 THRU 8 HAVE INFINITE RESISTANCE												700Ω †
V11	2AV2	NC	NC	NC	66meg	66meg	NC	NC	NC	4.5Ω †				
V12	6BK4B	1000Ω †	FIL	NC	NC	900K	NC	FIL	NC					INF
V13	6GH8A	18K †	175K	110K	FIL	FIL	8000Ω	0Ω	1000Ω	210K				
V14	6GH8A	39K †	2.2meg ●	24K †	FIL	FIL	16K †	470Ω	1000Ω	1800Ω				
V15	6GH8A	7900Ω †	1.7meg	3500Ω †	FIL	FIL	22K †	180Ω	1000Ω	100K				
V16	6CB6A	75K ●	27K	FIL	FIL	1000Ω †	1100Ω †	27K						
V17	6CB6A	1.7meg ●	180Ω	FIL	FIL	20K †	3500Ω †	0Ω						
V18	25XP22	FIL	5300Ω †	280K † ●	570K †	620K †	5300Ω †	260K † ●	NC	71meg	NC	5400Ω †	290K † ●	
												PIN 13 290K †	PIN 14 FIL	
V201	6DS4	NC	18K †	NC	5.5meg	NC	NC	0Ω	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	TOP CAP

TP TIE POINT
NC NO CONNECTION
† MEASURED FROM THE OUTPUT OF X2 & X4.
‡ MEASURED FROM PIN 9 OF V9.
● READING DEPENDS ON POLARITY OF METER CONNECTIONS.



BLOCK DIAGRAM

TUBE PLACEMENT CHART



RCA CHASSIS CTC38A/
38B/38H/38XP/38XR/38XT/38XU

FOLDER 3

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 A18, GENERAL CEMENT #8603, 8606L, 8869, WALSCO #2543, 2544, 2588
A9, GENERAL CEMENT #8868, 8987, 9089, WALSCO #2531-X, 2541, 2587
Mixer Plate Coil, GENERAL CEMENT #9296, 9297, 9300, WALSCO #2510, 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 \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 thru a .002 Cap. & 47 Ω resistor to collector of Q202, low side to ground.	41.25MC 47.25MC	A1, A2, A3	Adjust for MINIMUM.
2.	Connect vertical input of a scope to point \diamond . Low side to ground.	"	44MC (10MC Sweep) 42.17MC 44.00MC 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.	"	44MC (10MC Sweep) 41.25MC 42.17MC 44.00MC 45.75MC	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 A 4 & 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 a detector probe to Point \diamond . Tune in a TV station and adjust A10, A11 and A12 for maximum deflection. Remove VTVM. Reduce the 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 A13 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 WG 304A or equivalent). 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 \diamond to ground. Turn the color intensity to maximum. Remove the Horizontal Output tube and connect a 2000 Ω , 100W resistor from 375V source to ground.

SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
4.	Connect high side thru .1mfd to grid of 1st Chroma Bandpass Amp., V14A. Low side to ground.	3.58MC (3-5MC Sweep)	3.08MC 4.08MC	Vert. Amp. thru Detector Probe to pin 9 of 2nd Chroma Bandpass Amp. V15A, Point \diamond . Low side to ground.	A15 A16	Adjust for response curve similar to Fig. 3.
5.	High side of sweep gen. to Video Sweep Input of RF modulator. High side of signal gen. (set at 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 (6MC Sweep)	"	Vert. Amp. thru Detector Probe to demodulators, Point \diamond . Low side to ground.	A17 A18	Adjust for response curve similar to Fig. 4. If necessary, retouch A15 to flatten top of response.

AFT ALIGNMENT

Disconnect Lead from Point \diamond . Suggested Alignment Tools: A23, A24, A25, GENERAL CEMENT #8606, 8606L, 8869, WALSCO #2543, 2544, 2588

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
	Connect high side thru .001mfd capacitor to point \diamond . Low side to ground.	46.1MC		DC probe to point \diamond . Low side to ground.	A23, A24	Adjust signal generator output for 2 to 3 volts. Alternately adjust A23 & A24 for MINIMUM positive reading (Dip) while adjusting generator output to maintain 2 to 3 volts.
	"	45.75MC		DC probe to point \diamond . Low side to point \diamond .	A25	Adjust for zero. A positive or negative reading will be obtained on either side of the correct setting.

TROUBLESHOOTING CHECK CHART

The following chart lists component failures most likely to produce indicated symptoms.

SWEEP	PICTURE OR SOUND	COLOR (B/W reception operating normally.)
No raster, has sound V7 thru V12, V18	No pic, no sound, no raster F1 thru F3, X1 thru X4	No color Q7, V14, V15, V16
No vert. deflection V6	No pic, no sound, has raster Q1 thru Q3, Q201, Q202	Weak color Q7, V14, V15, V16
Poor vert. lin. or foldover V6	No pic, no sound, has snow V201, Q201 thru Q203	No color sync V13, V16
Poor horiz. lin. or foldover V8, V9	No pic, has sound, no raster V3, V18	No blue X15, X16, V15
Narrow picture X1 thru X4, V7 thru V9	No pic, has sound, has raster X12, V1, V2, V3, V18	No red X17, X18, V17
Vert. off freq. V6	Has pic, no sound X13, Q4, Q5, V4, V5	Incorrect hue (tint) V16, X15 thru X18
Horiz. off freq. X14, V7	Overloaded picture Q6, V2	
	Low or excessive brightness V13, V18	
	Poor focus V11	
RASTER	SYNC	
Yellow - No blue V15, V18	No vert. sync V1	
Cyan - No red V17, V18	No horiz. sync V1	
Magenta - No green V14, V18	No vert. or horiz. sync V1	

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 Shunt Regulator tube. A VTVM through a high-voltage probe to picture-tube anode connector. Point \diamond 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 \diamond . Adjust the Horizontal Efficiency Coil for MINIMUM current in the horizontal output tube. (should not exceed 235ma).

Check the Shunt Regulator current. The current should not be less than 960 microamperes. If current is less than 960 microamperes, turn the Horizontal Efficiency slug one-half turn clockwise. Check to see that horizontal output current does not exceed 235ma. If foldover occurs in picture, adjust Horizontal Efficiency clockwise to eliminate foldover while checking to make sure horizontal output current does not exceed 235ma.

Adjust Focus, Height and Vertical Linearity controls.

COLOR AFC ALIGNMENT

Suggested Alignment Tools:

GENERAL CEMENT #9296, 9297, 9300
WALSCO #1510, 1546, 1547

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 set for normal color reception.

Short Point \diamond to ground. Connect a 39K resistor from Point \diamond to the 260V source. Connect DC probe of VTVM through 470K resistor to Pin 2 of 3.58MC Oscillator, V13. Low side to ground. Adjust A19 for MINIMUM deflection on VTVM. If no reading is obtained, oscillator is not operating. Adjust A20 to start oscillator, then adjust A19 for MINIMUM. Adjust A20 until color bars stand still or drift slowly. Adjust A21 for -3.5 volts on VTVM. Use peak with core at board end of coil.

Remove VTVM and adjust A20 until color bars stand still or drift slowly.

Remove the short from Point \diamond and the 39K resistor from Point \diamond . Set Brightness & Color Control full counterclockwise. Connect DC probe of VTVM through a 470K resistor to Point \diamond , low side to ground. Adjust A22 for maximum deflection on VTVM when rocking the Tint Control from one end to the other. The voltage should be the same at either end of the control. Connect vertical input of scope to Point \diamond . 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. Check for proper waveform at the G-Y and B-Y outputs (Points \diamond and \diamond). Tune in a weak signal or reduce the signal at the antenna terminals to obtain a snowy picture. Ad-

just 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 1 of Convergence Adjustments. If the picture tube appears to be magnetized, use a degaussing coil to demagnetize tube and mounting brackets. Set the "Normal-Raster-Service" switch in Raster position.

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 picture-tube face. A low power microscope is useful to observe the beam landings.

GREY SCALE ADJUSTMENTS

Tune in a black-and-white picture or a color picture with the Color control set at MINIMUM. Turn the CRT Bias Control to MINIMUM (counterclockwise). Turn the red, blue, and green screen controls to MINIMUM. Move the "Normal-Raster-Service" switch to the "Service" position. Advance the screen controls, one at a time, until each produces a barely visible line. If one or more controls fail to produce a line, leave that screen control at maximum and advance the CRT Bias until a barely visible line appears, then readjust the other two screen controls for a barely visible line. Return the "Normal-Raster-Service" switch to the "Normal" position. Adjust the blue and green video drive controls to eliminate coloring in the light and dark areas of the picture.

Turn Brightness control to maximum (fully clockwise) and Contrast control to midrange. Adjust the Brightness Limiter control until the picture blooms (distorts) then reduce the control to the point just below where the picture returns to normal.

WIDE BLUE FIELD CORRECTION

The Wide Blue Field adjustment is set at the factory. If adjustment is necessary due to the blue field over-scanning the red and green, loosen the yoke holding screws, then adjust the "Wide Blue Field" screw to adjust the width of the blue field. This adjustment is on the bottom of the yoke assembly and adjusts the yoke vertically for proper blue beam scan.

DYNAMIC PINCUSHION ADJUSTMENTS

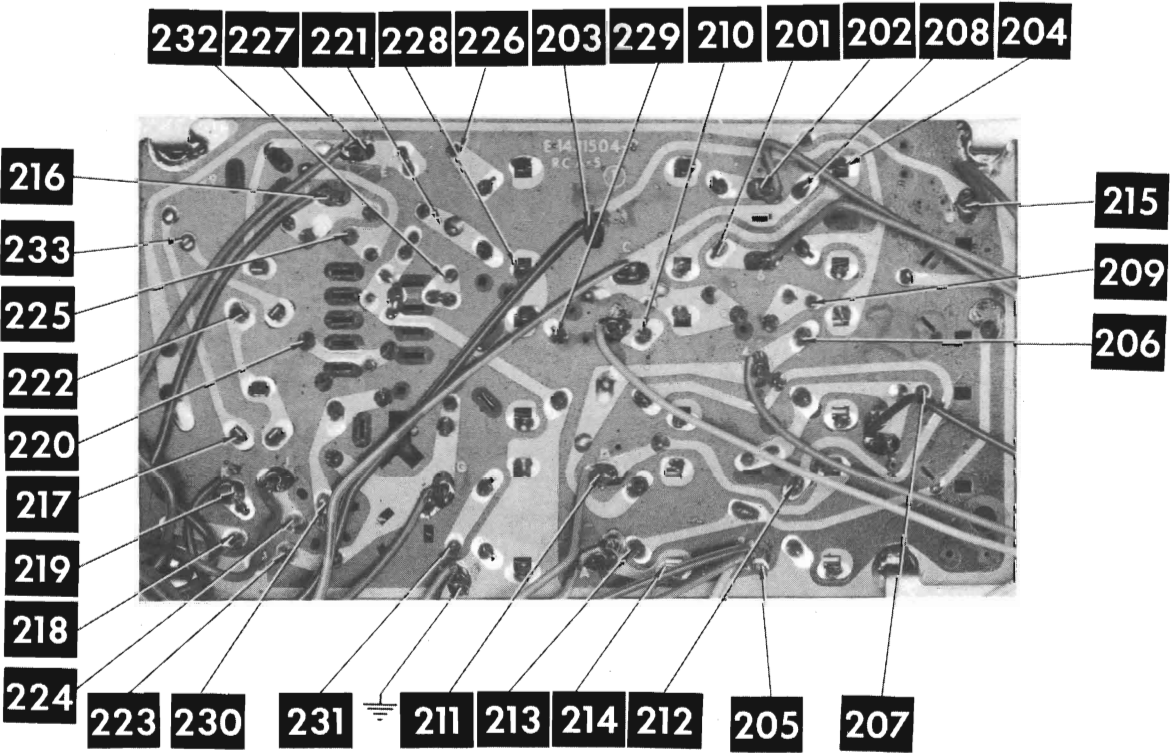
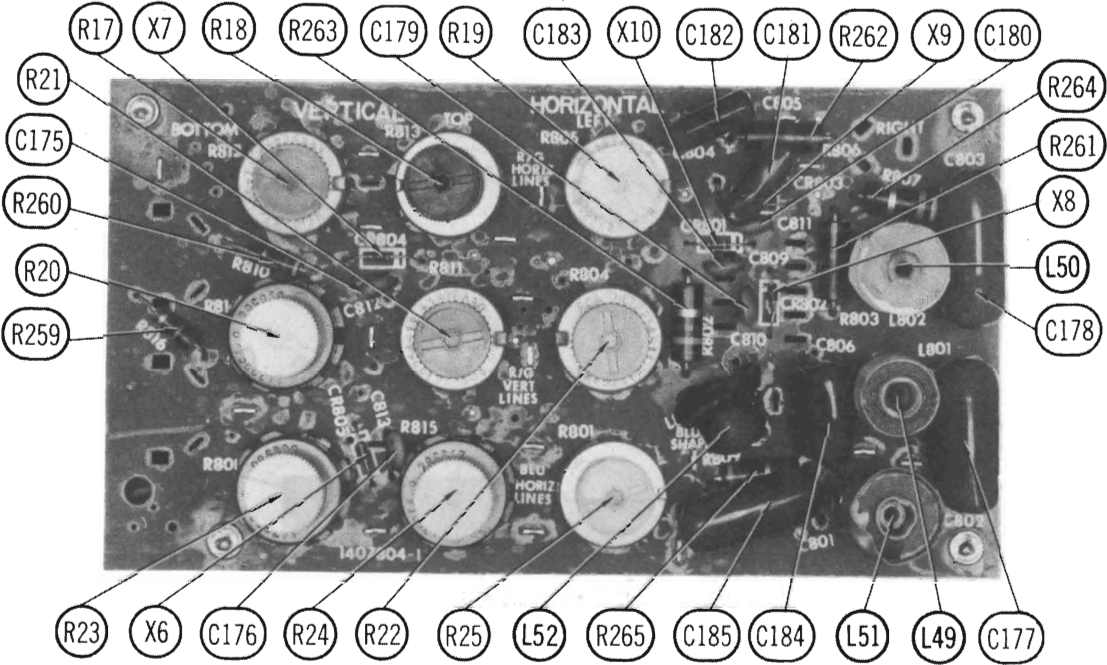
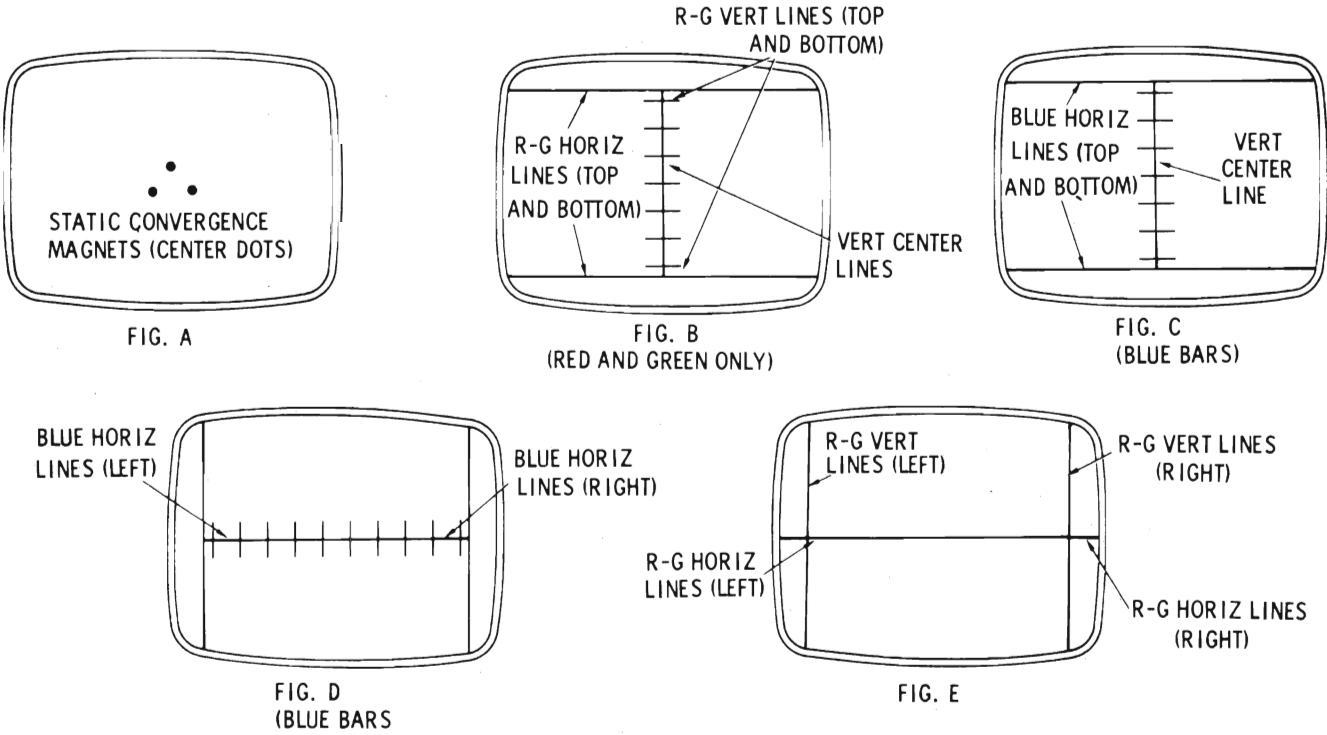
The side pincushion is a fixed correction and no adjustments are provided on this chassis. Top and bottom pincushion is factory adjusted and readjustment is seldom needed. If necessary, top and bottom pincushion may be corrected by adjusting for straight horizontal lines at the top and bottom of the screen.

Connect a crosshatch generator to the antenna terminals and adjust the set for a normal crosshatch pattern. Turn the Top-Bottom Pin Amp. control (R10) fully counterclockwise.

Adjust Top-Bottom Pin Phase, L48, to move curvature to the center of the screen. Readjust Top-Bottom Pin Amp, R10, for straight horizontal lines at top and bottom of the screen. Repeat above steps if necessary.

CONVERGENCE ADJUSTMENTS

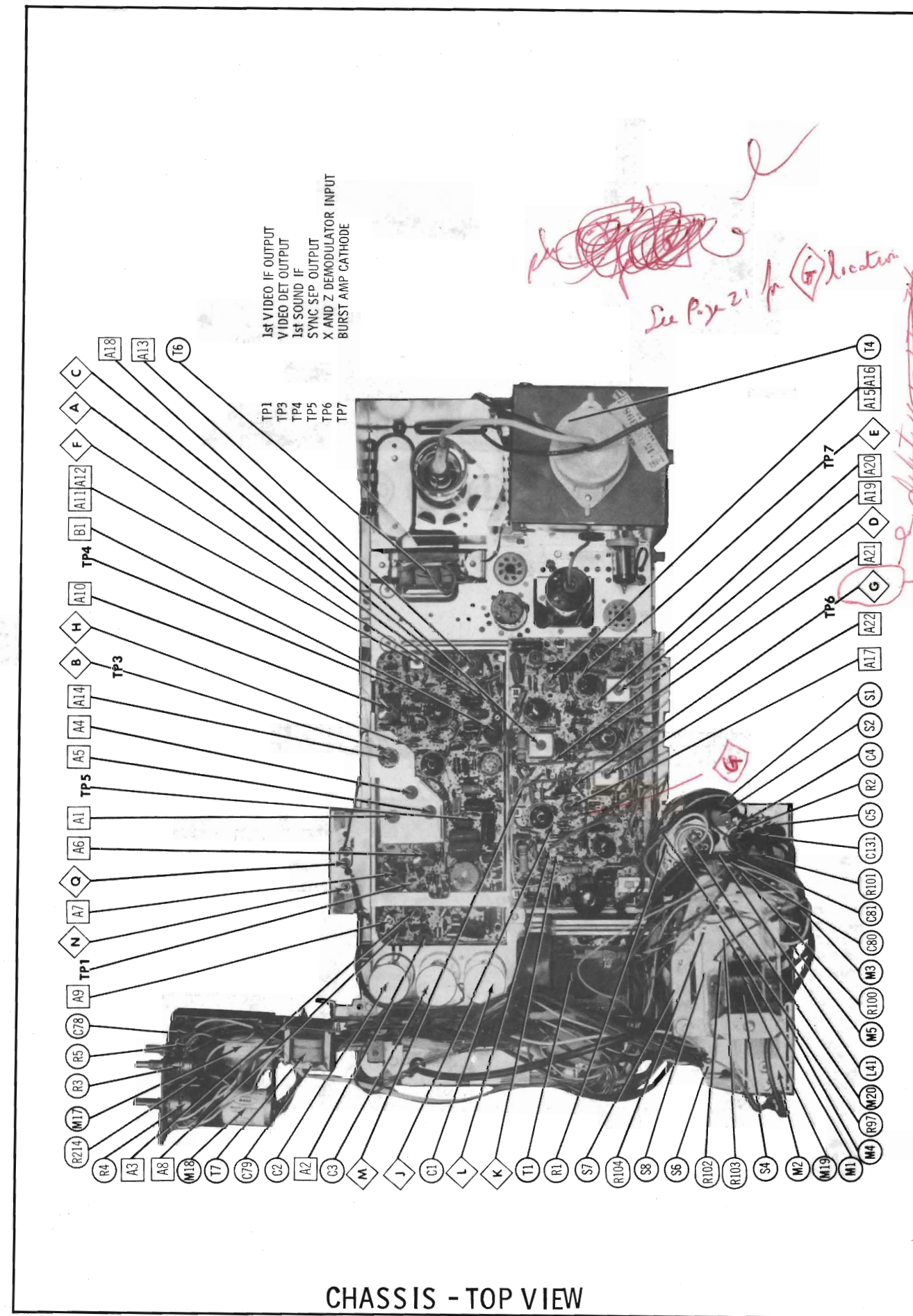
Step	Control	Use to Converge (or Straighten)	Remarks
1.			Perform Center Dot Convergence using convergence magnets. See Fig. A.
2.	R-G Vertical Lines, Top	Red and Green Vertical bars at top of screen.	Touch up both controls for best convergence from top to bottom along vertical center line (Fig. B)
3.	R-G Vertical Lines, Bottom	Red and Green Vertical bars at bottom of screen.	
4.	R-G Horizontal 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 Horizontal Lines, Bottom	Red and Green Horizontal bars at bottom of screen.	
6.	Blue Horizontal 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 Horizontal Lines, Bottom	Blue Horizontal bars at bottom of screen.	
8.			Perform Center Dot Static Convergence (Fig. A).
9.	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).
10.	Blue Horizontal Lines, Left	Blue Horizontal bars at left side of screen.	
11.	R-G Vertical Lines, Right	Red and Green Vertical bars at right side of screen.	(Fig. E).
12.	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).
13.	R-G Vertical Lines, Left	Red and Green Vertical bars at left side of screen.	(Fig. E).
14.	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).



CONVERGENCE BOARD A Howard W. Sams CIRCUITRACE® Photo

RCA CHASSIS CTC38A/
38B/38H/38XP/38XR/38XT/38XU

FOLDER 3



PARTS LIST AND DESCRIPTION (CONTINUED)

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1	VHF Tuner	KRK140B	JFD Replacement TA464 JFD Replacement TA545 Used in all Models VHF CHICAGO MINIATURE Replacement CM 219 UHF CHICAGO MINIATURE Replacement CM 219 CHICAGO MINIATURE Replacement CM 219 (Remote) 3, 58 MC
	VHF Tuner	KRK140A	
	VHF Tuner	KRK144A	
	VHF Tuner	KRK144B	
M2	UHF Tuner	KRK132KD	
	UHF Tuner	KRK132JD	
	UHF Tuner	KRK132LD	
	UHF Tuner	KRK138KA	
	VHF Antenna	1052114	
	UHF Antenna	1052113	
M3	Channel Lamp	117435	
M4	Channel Lamp	117435	
M5	Lamp		
M6	Crystal	105330	
M7	Spark Gap	120819	
M8	Spark Gap	120819	
M9	Spark Gap	120819	
M10	Spark Gap	116636	
M11	Spark Gap		
M12	Spark Gap	116636	
M13	Spark Gap	116636	
M14	Spark Gap	116636	
M15	Coil	124762	
M16	Coil	121491	
	Coil (Alt.)	121524	Delay Line Degaussing (Used in Models FL536W/544WK/544WRK, GL610W/611M, W/611WR/613W/615L/620M, W/628M, W, WR/630W, WR/634L, LR/644W/664F, FR/666L, LR/670F, Y, FR/676S/682W, WR/688W/758WK/760WK, WRK/766LK/772SK) Degaussing (Used in Models FL514WK, GL550M, W, WR/568L) Degaussing (Used in Models GL788WK, WRK/790FK/792LK/798SK/800GK, SK, YK/802LK/804FK) Color Control Tint Control Charmel Selector Volume Control Power On-Off Remote On-Off Line Voltage Selector (Normal - High) Station Stopper, Manual - Remote (Activated by VHF Motor Shaft) Normal - Service - Raster UHF AFT (Activated by UHF Fine Tuning Knob) VHF AFT (Activated by VHF Fine Tuning Knob) VHF - UHF Function Switch (on Rear of VHF Tuner Shaft)
	Coil (Alt.)	125693	
M17	Motor	122746	
M18	Motor	122746	
M19	Motor	122217	
M20	Motor	126123	
S1	Switch	126125	
S2	Switch	126125	
S3	Switch	124763	
S4	Switch	115497	
S5	Switch	121553	
S6	Switch		
S7	Switch		
S8	Switch		
	Magnet	114650	
	Magnet	114648	
	Magnet	114698	
PC1	Line Isolation	115436	
PC2	Line Isolation	115436	
	Printed Circuit Board	124822	
	Printed Circuit Board	124823	
	Printed Circuit Board	119641	
	Printed Circuit Board	126603	

CABINETS & CABINET PARTS

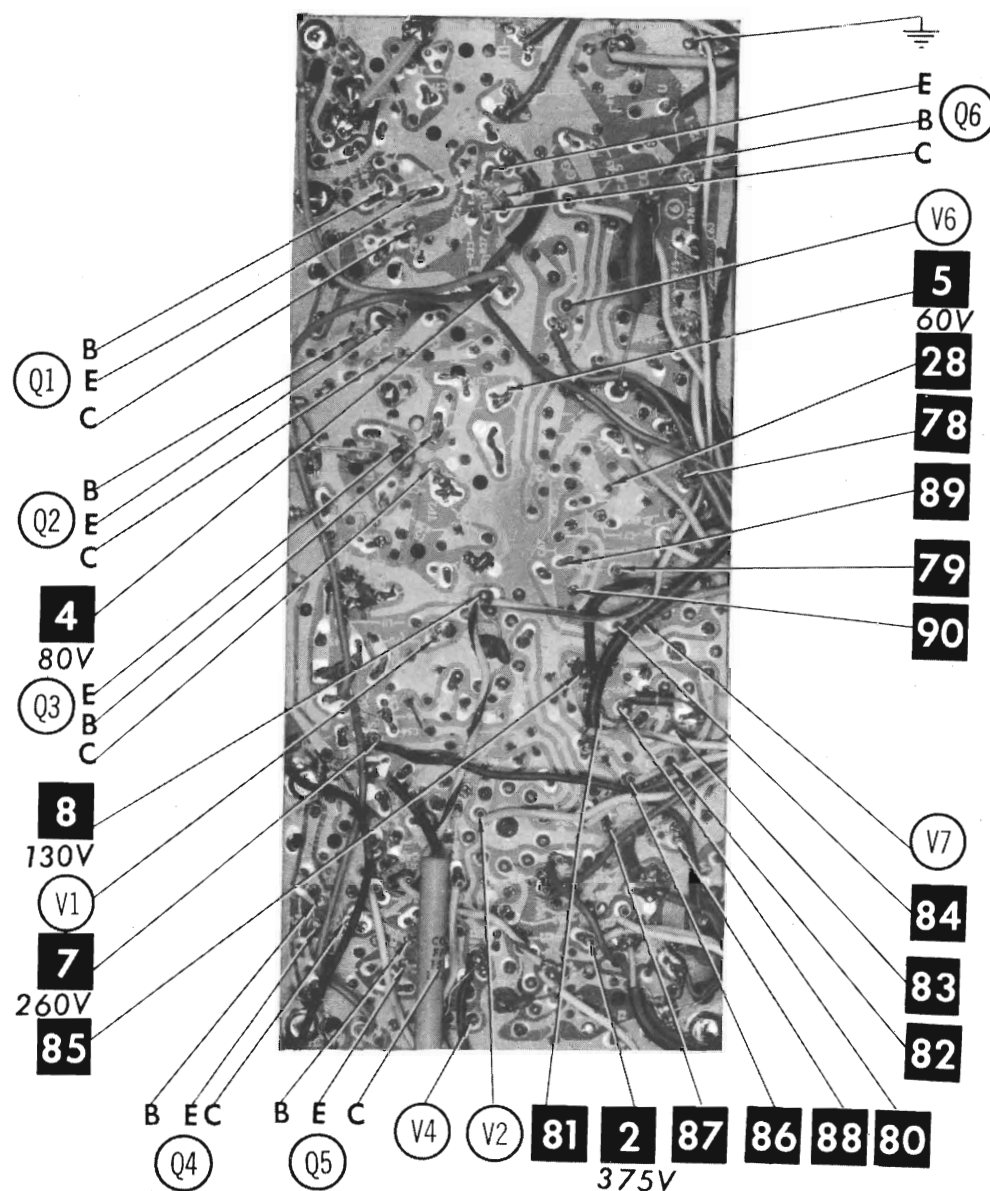
(When ordering specify model, chassis & color)

KEY LETTERS	KEY NO.	PART NO.
A	1	121531
B	2	121910
C	3	123948
D	4	121528
E	5	125414
F	6	125336
G	7	125146
H	8	125585
I	9	126004
J	10	123947
K	11	120700
L	12	117569
M	13	118383
N	14	126244
	15	121535
	16	121536
	17	123942
	18	123943
	19	125149
	20	125416
	21	125176
	22	125147
	23	125415
	24	125175
	25	125148
	26	124675



MODEL KEY



KEY LETTER	MODEL NO.
A	GL550M, GL550W, GL550WR, GL568L, GL610W
B	GL611M, GL611W, GL611WR
C	FL536W, GL628M, GL628W, GL628WR, GL634L, GL634LR, GL682W, GL682WR, GL688W, GL788WK, GL788WRK
D	FL544WRK, GL760WK, GL760WRK, GL766LK, GL772SK, GL790FK, GL792LK, GL798SK
E	GL800GK, GL800SK, GL800YK, GL802LK, GL804FK
F	GL670F, GL670Y, GL670FR
G	GL664F, GL664FR, GL666L, GL666LR
H	GL613W, GL644W
I	GL620M, GL620W
J	GL630W, GL630WR
K	GL676S
L	GL758WK
M	GL615L
N	FL514WK

RCA CHASSIS CTC38A/
38B/38H/38XP/38XR/38XT/38XU

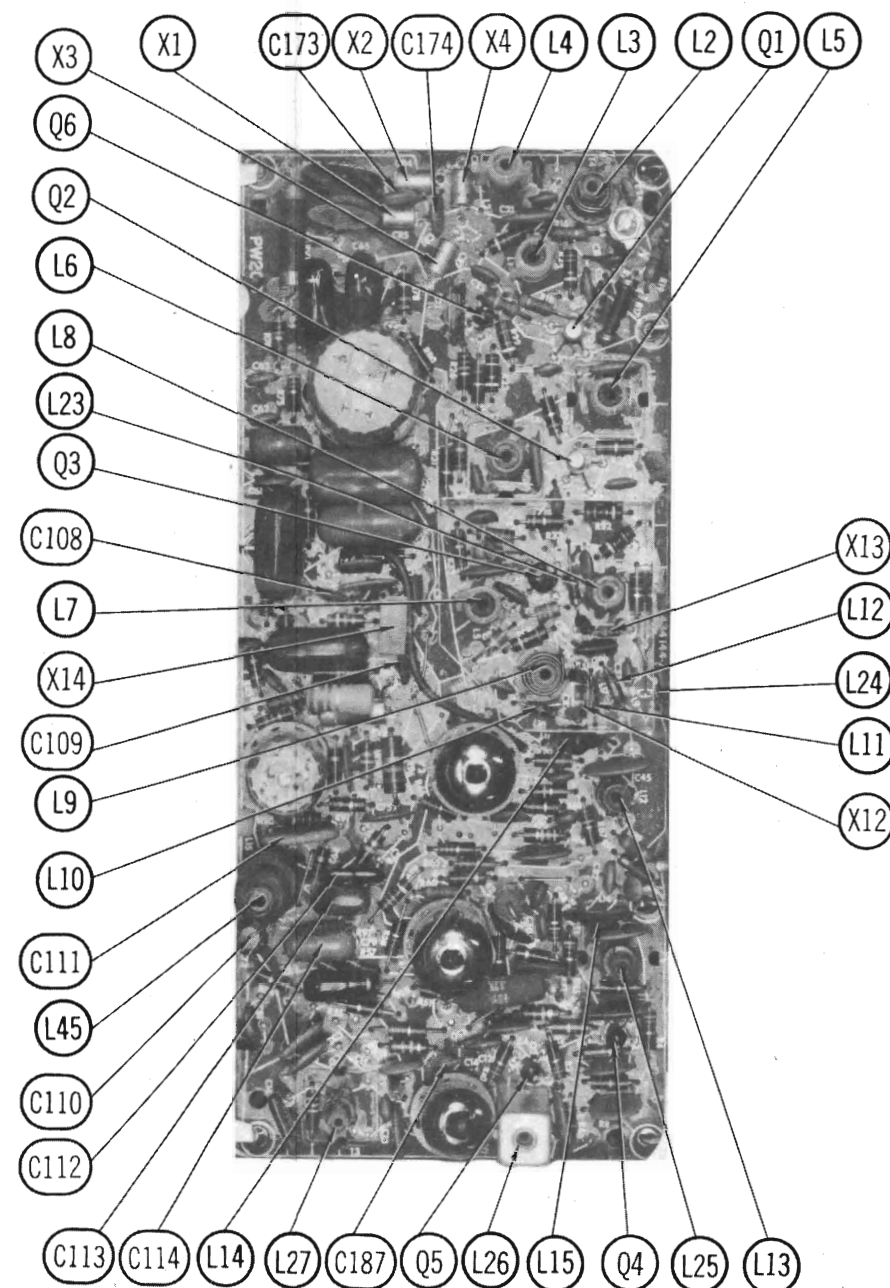


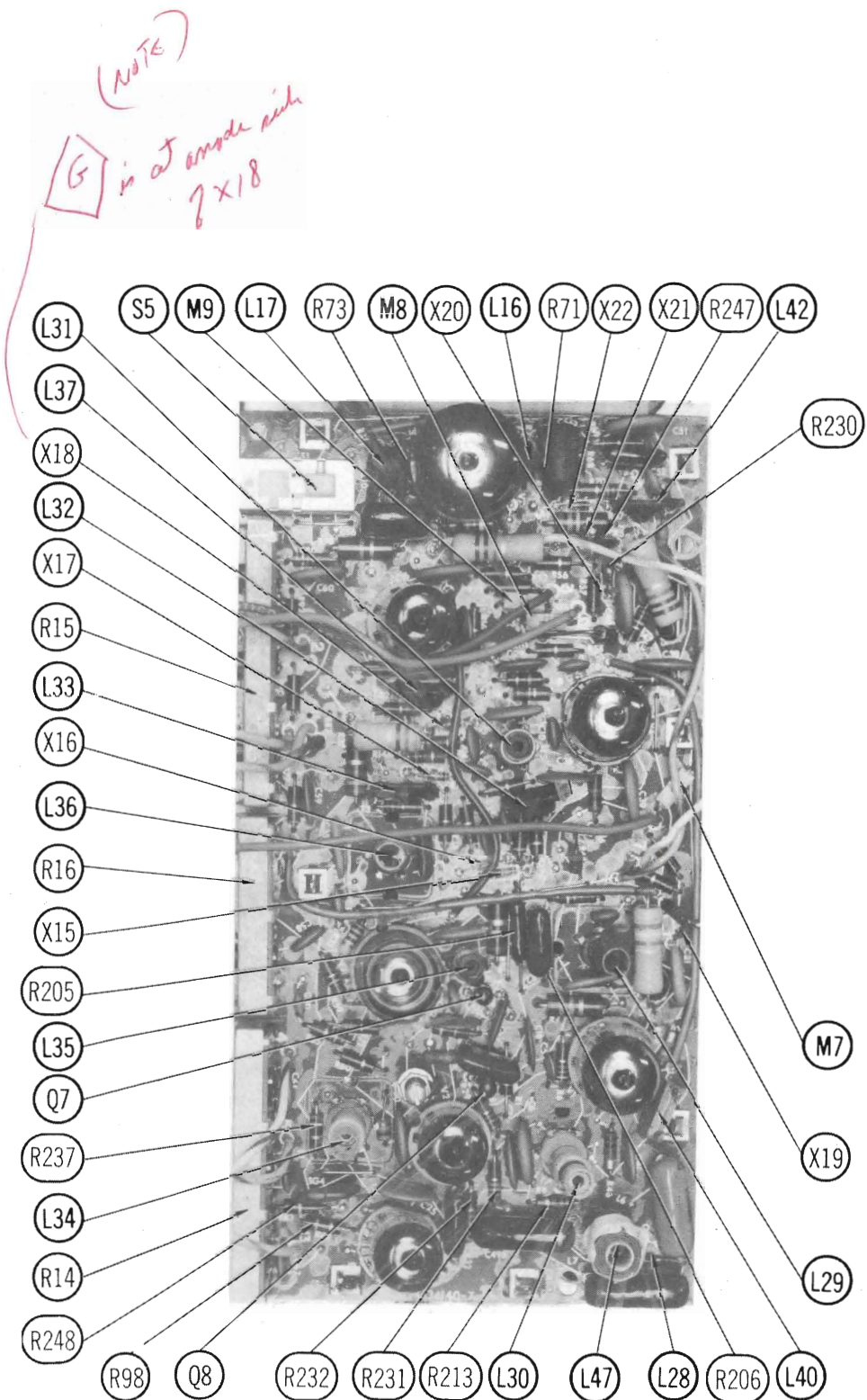
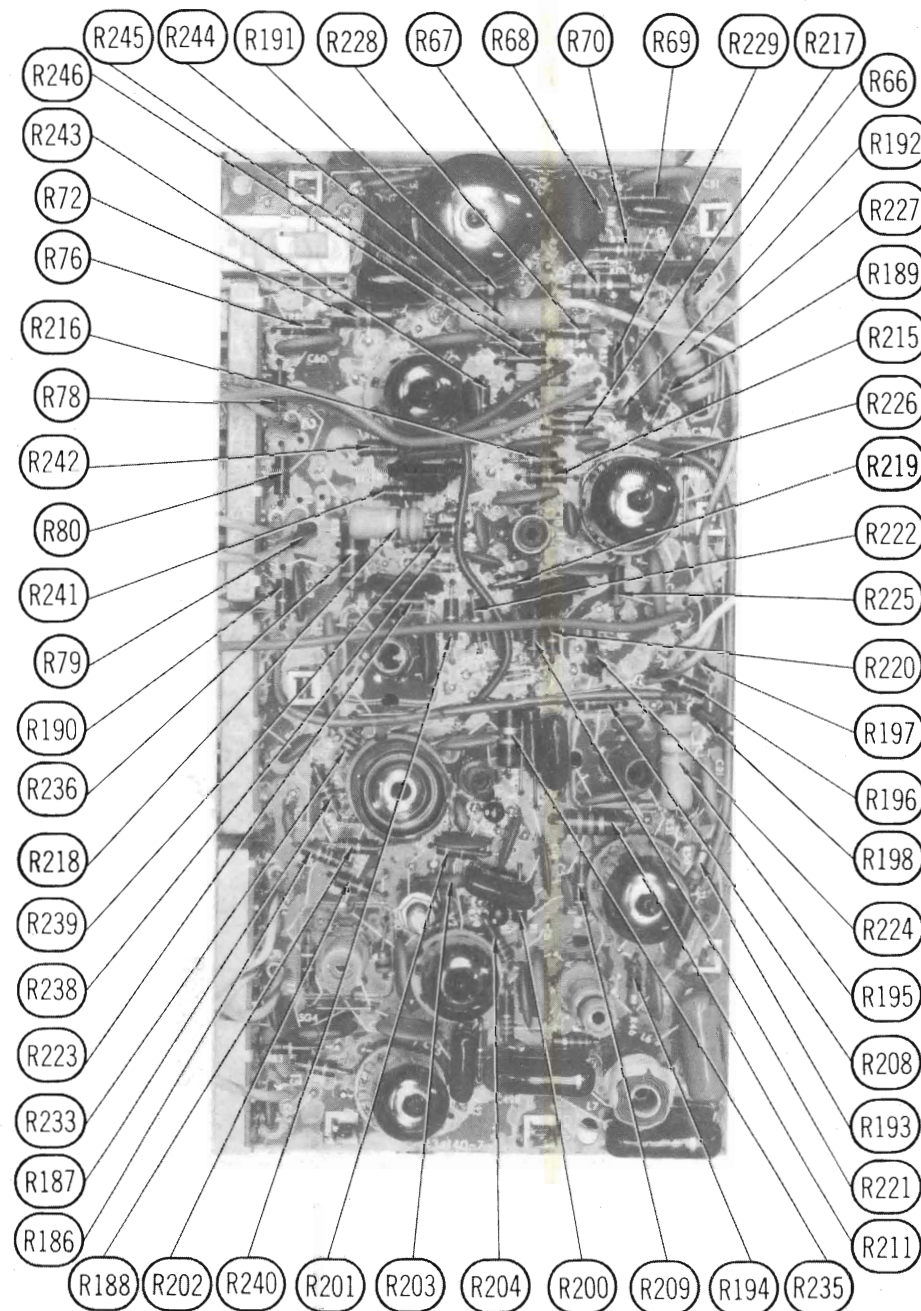
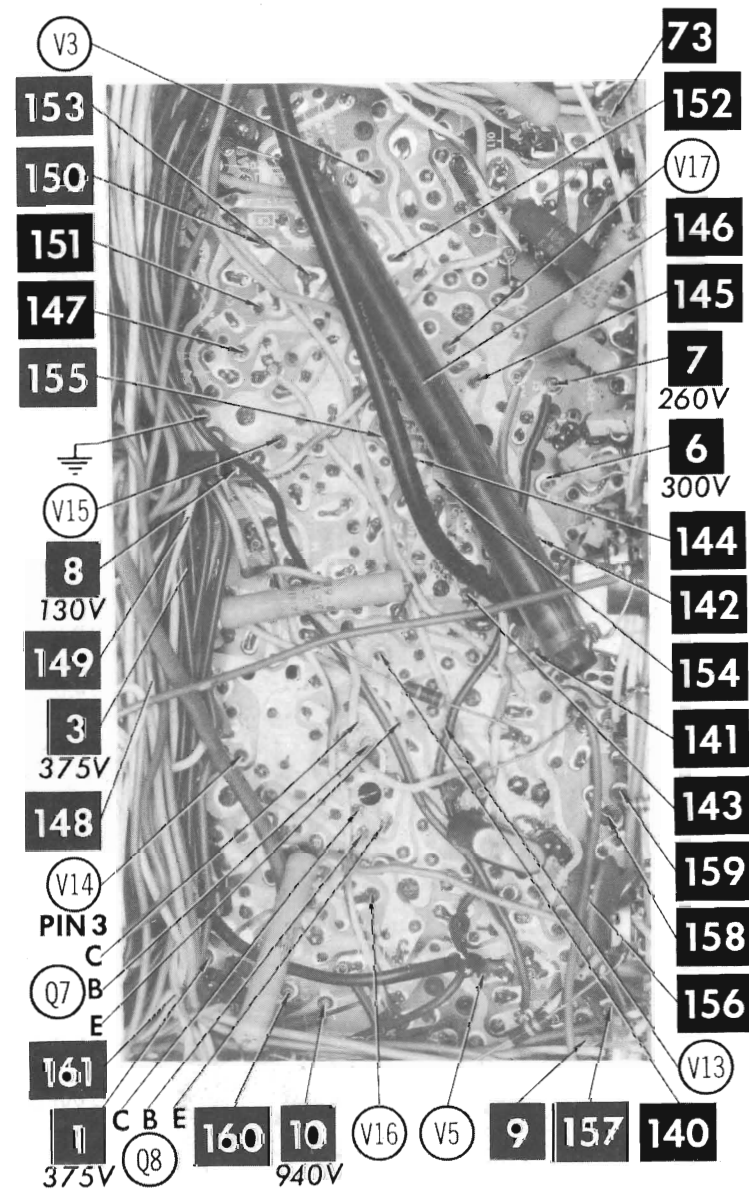
Set the AFT switch in On position. Check all voltages and currents of the IC unit. Abnormal voltages or current may indicate defective IC unit or associated component. If voltages and currents are normal, check alignment as outlined below.

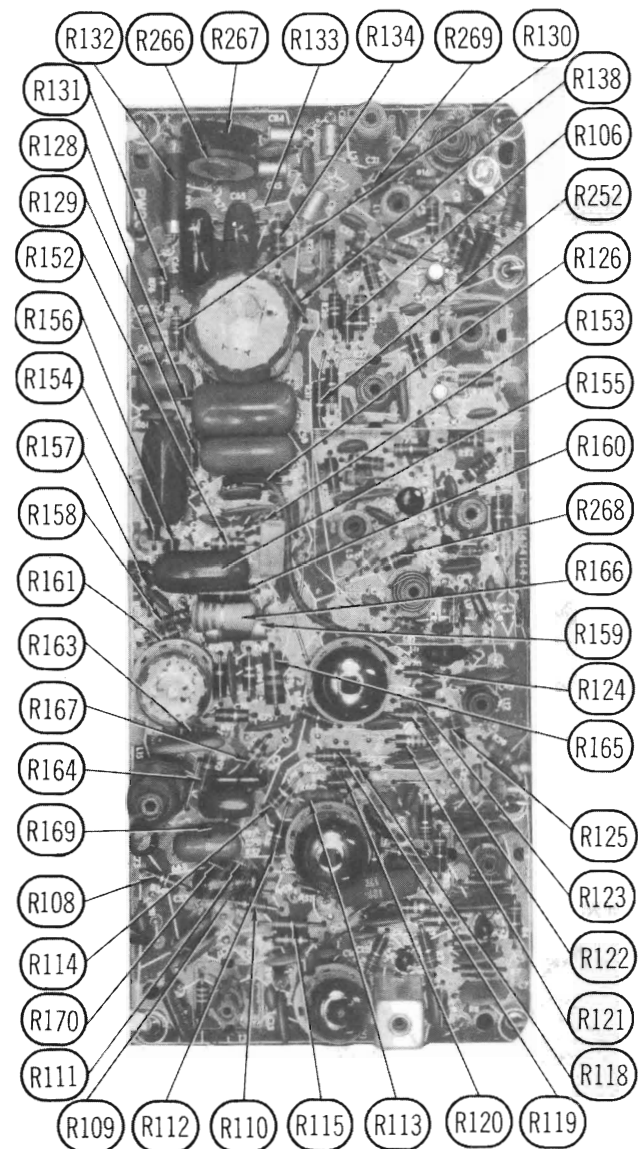
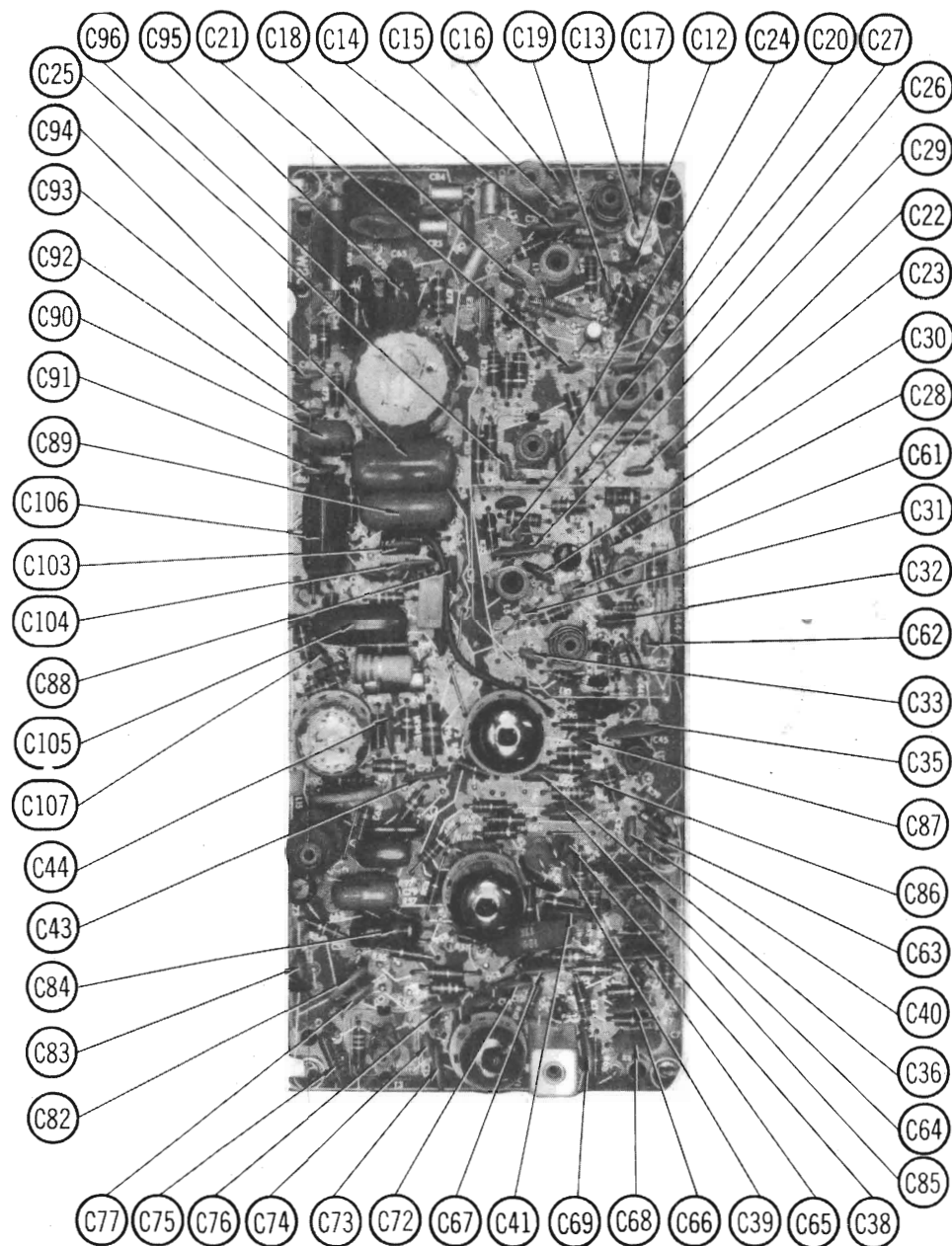
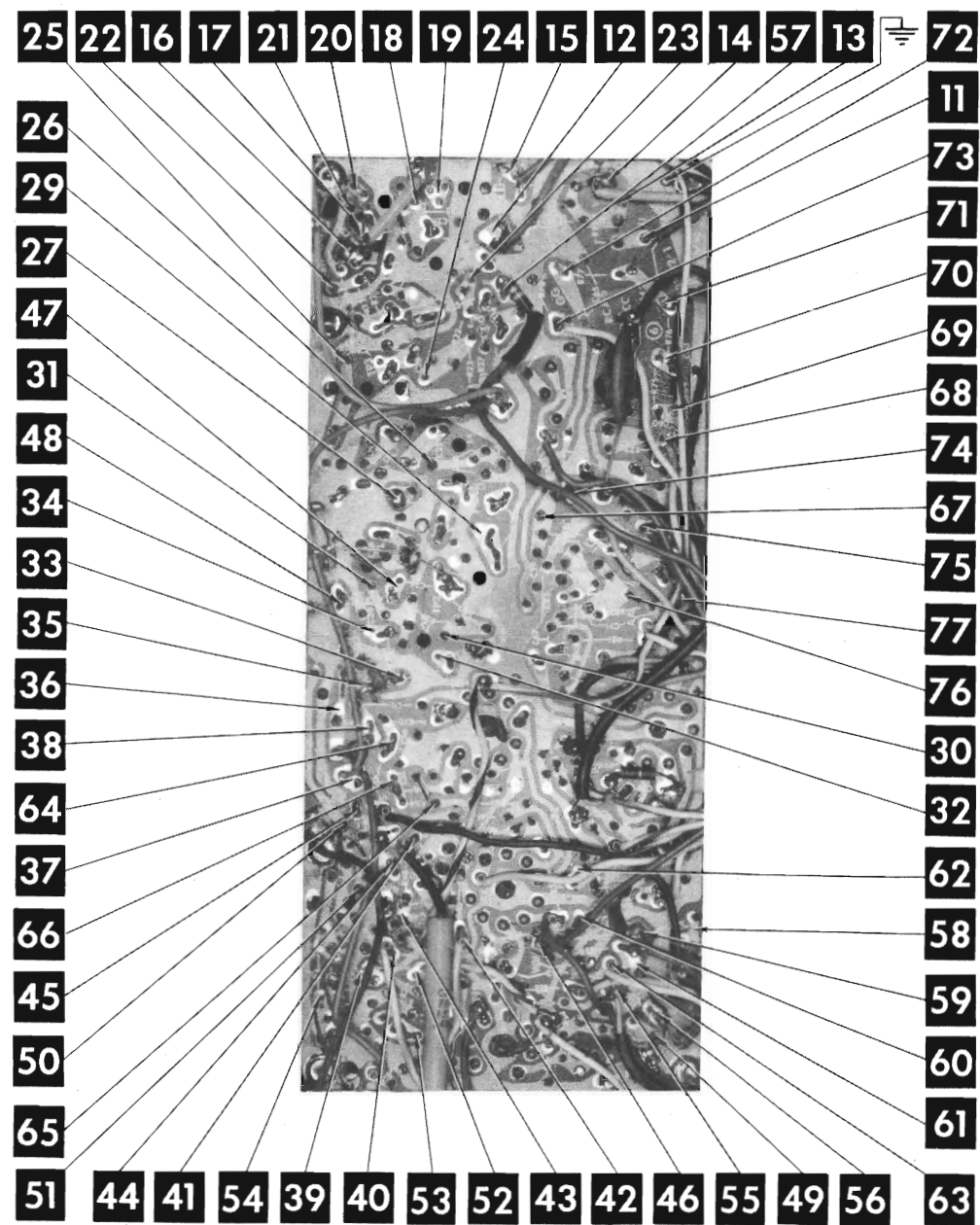
Connect marker generator high side through .002 mfd to Point  on VHF tuner, low side to ground. Set marker generator to 46.1MC. Connect DC probe of VTVM to Point , low side to ground. Alternately adjust A23 and A24 for MINIMUM positive reading.

Change marker generator frequency to 45.75MC. Connect VTVM across Points  to . Adjust A25' for zero. A positive or negative reading will be obtained on either side of the correct setting. This adjustment is very critical.

If alignment cannot be accomplished, check for defective IC unit or associated component. If alignment is correct and trouble persists, AFT device and associated circuitry in tuner should be checked.







PICTURE PRINTED BOARD

A Howard W. Sams

CIRCUITRACE®

Photo

CHROMA PRINTED BOARD

120127125126137

135114121123122124119134132131133136

128129130

92979591949698939962

101100103104111102113107112109108110105118106116

138139117115

VHF TUNER PARTS LIST

TUBES				• AMPEREX • GENERAL ELECTRIC • RCA • SYLVANIA •			
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE		
V201	R.F. Amp.	6DS4					

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFG. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	MOTOROLA PART No.	SYLVANIA PART No.
Q201	Mixer		119414		GE-11	TR-24	SK-3019	ECG 108
Q202	Mixer		119414		GE-11	TR-22	SK-3018	ECG 108
Q203	Oscillator		116199		GE-11	TR-22	SK-3018	ECG 108
Q204	A.F.T.		118822		GE-11	TR-22	SK-3018	ECG 108

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.	ELWENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C201A	82 NT50 5%			DTZ-82		CCTO-820		10TCC-Q82
C202	82 NT50 5%			DTZ-82		CCTO-820		10TCC-Q82
C203	30 NT50 10%			TCZ-30		CCTO-300		10TCC-Q30
C204	27 NT50 5%			DTZ-33	CS601CG30K	CCTO-330	CNO433	10TCC-Q33
C205	2-10			TCN-27		CCTN-270	CN7427	10TCU-Q27
C206	3-9							10TCC-V39
C207	.001							
C208	47 N875 5%							
C209	33 N875 5%							
C210	11 N470 5%							
C211	20 N150 5%							
C212	.22							
C213	.001							
C214	.001							
C215	12 NPO 5%							
C216	82 100V 5%							
C217	.001							
C218	47							
C219	47							
C220	1-7							
C221	47							
C222	.001							
C223	.001							
C224	3-3 N150 ±.25							
C225	3-3 N150 ±.25							
C226	82 N875 5%							
C227	.001							
C228	.001							
C229	.82 10%							

† Alternate # RCA Part Number * Not normally in distributor's stock. Available thru distributor on order to manufacturer.

COILS (RF-IF)

ITEM No.	USE	MFG. PART No.	NOTES	ITEM No.	USE	MFG. PART No.	NOTES
L201	Mixer Collector	125797		L204	Oscillator	119412	
L202	IF Output	119412	10th	L205	UHF IF Input	125023	10th
L203	Oscillator	119412	10th				

UHF TUNER PARTS LIST

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFG. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	MOTOROLA PART No.	SYLVANIA PART No.
Q301		Oscillator	114267		GE-11	TR-24	SK-3019	ECG 108

① Used in UHF Tuner KKK132KD; Part #113938 used in UHF Tuner KKK132JD; Part #114525 used in UHF Tuner KKK132LD.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFG. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES		REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	SYLVANIA PART No.	RCA PART No.	
X301	119662		1N82A	1N82AG		
X302	119661			ECG 112		

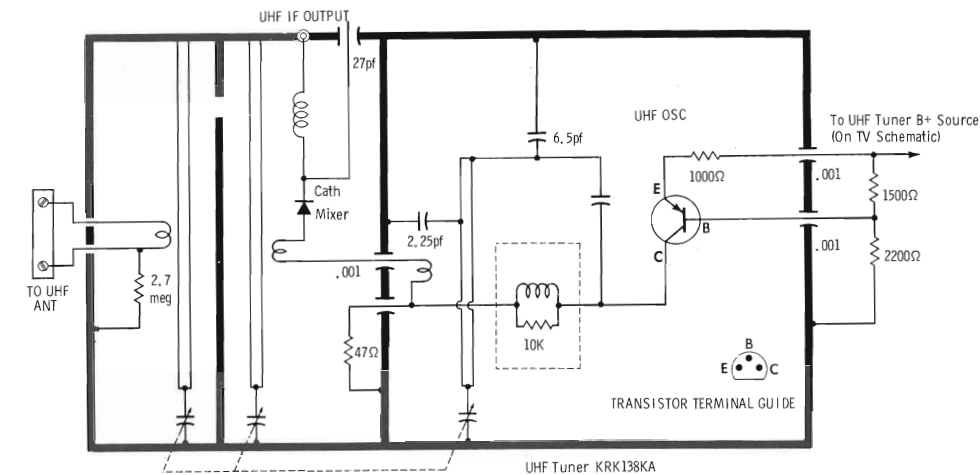
CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL DUBILIER PART No.	ELWENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C301	27 N750							
C302	.001							
C303	.001							
C304	2.25 NPO ±.25							
C305	.001							
C306	.001							
C307	.001							
C308	.001							
C309	2.25 NPO ±.25							

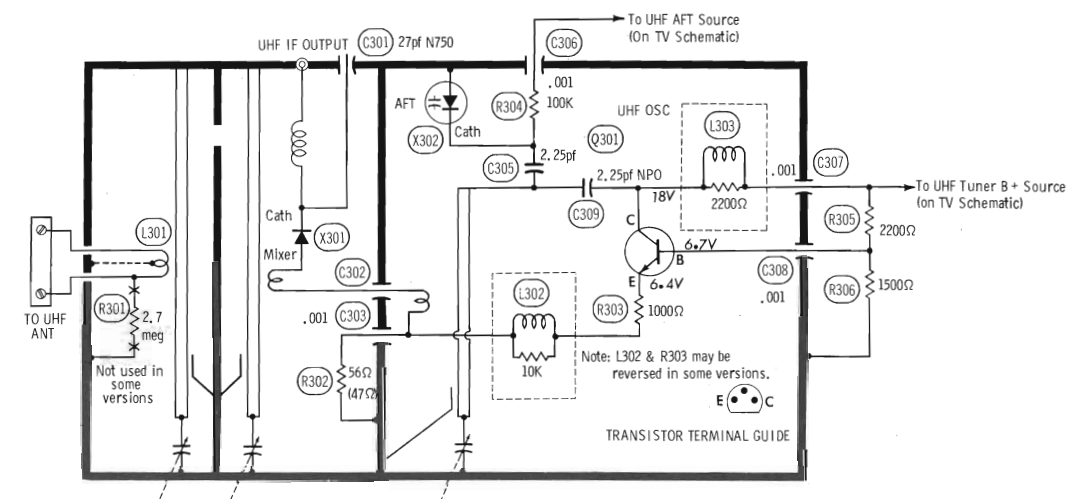
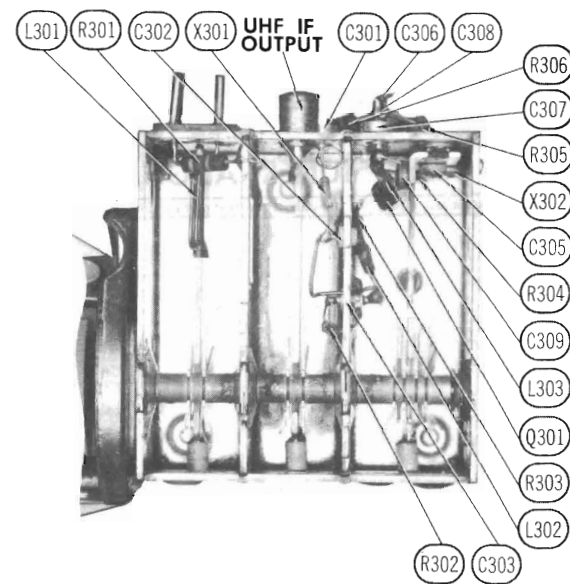
RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA		
		WORKMAN PART No.	MFG. PART No.			IBC PART No.	WORKMAN PART No.	MFG. PART No.
R212	16K 3W							

UHF TUNER KRK138

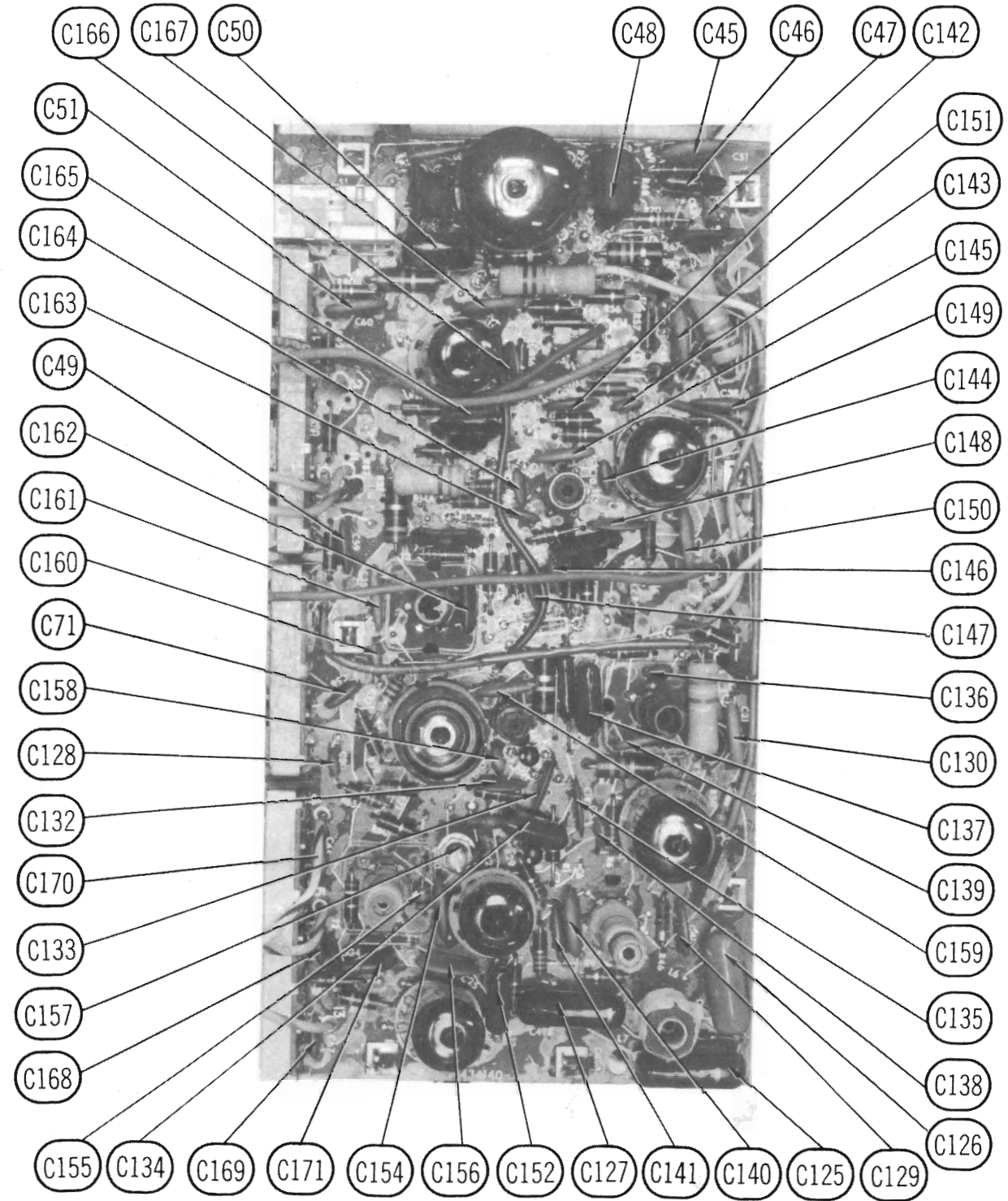


A PHOTOFACT STANDARD NOTATION SCHEMATIC
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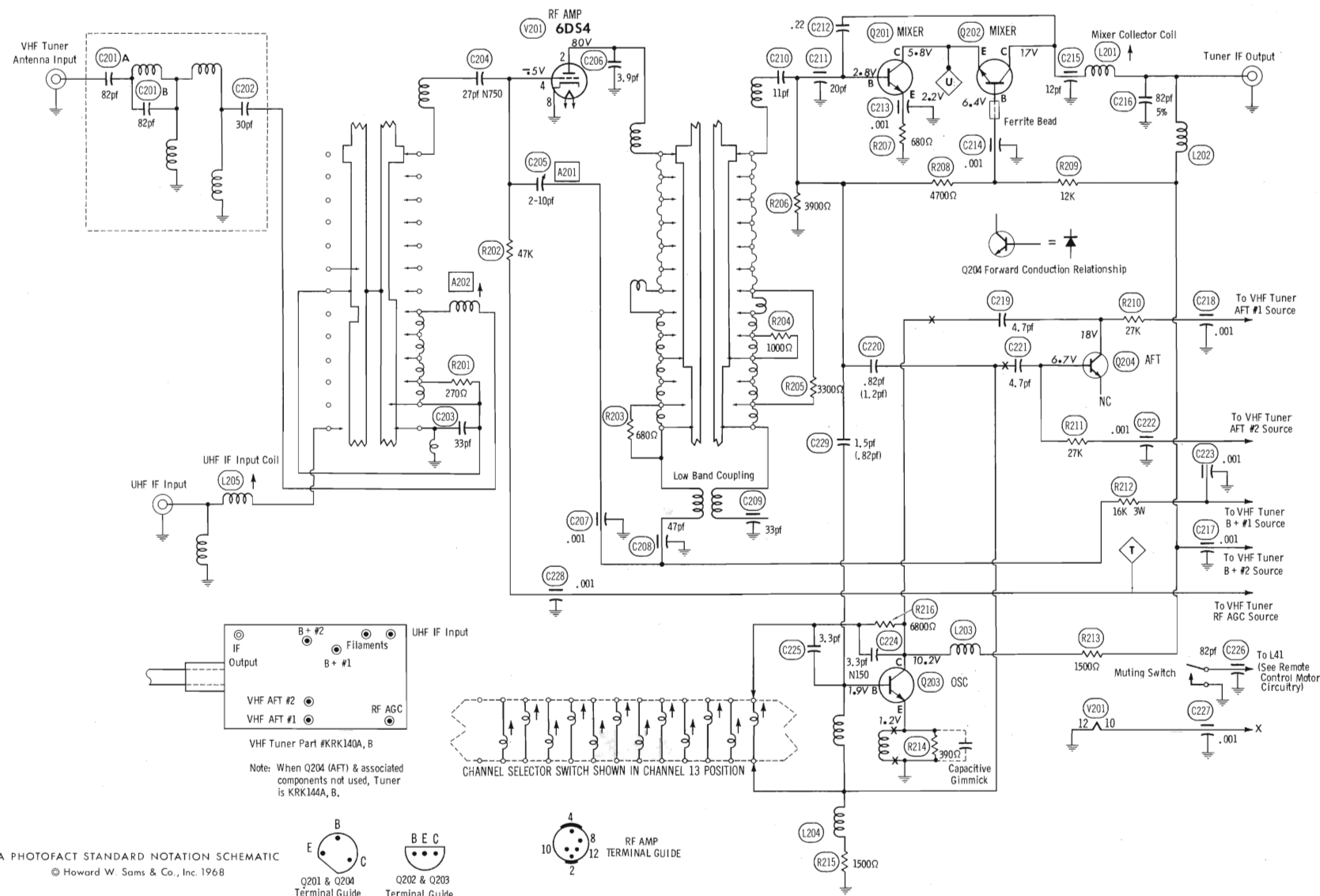
UHF TUNER KRK132KD, JD, LD



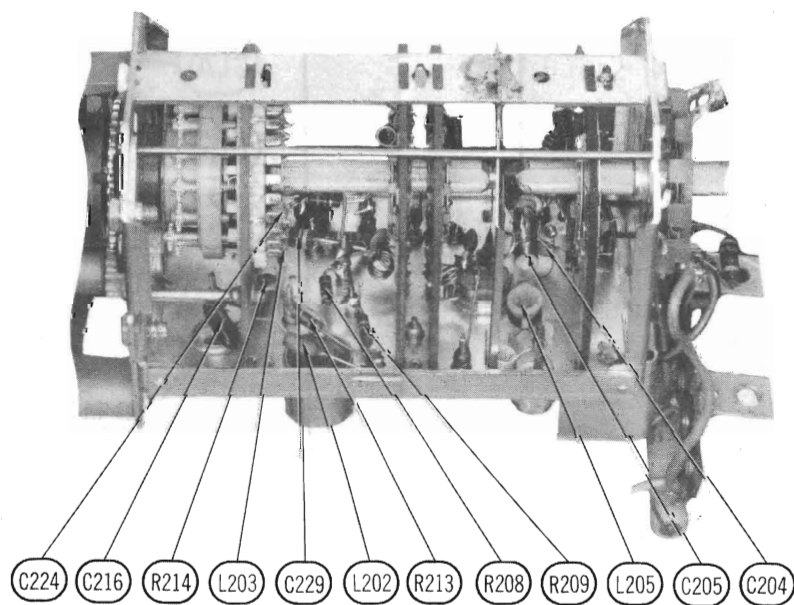
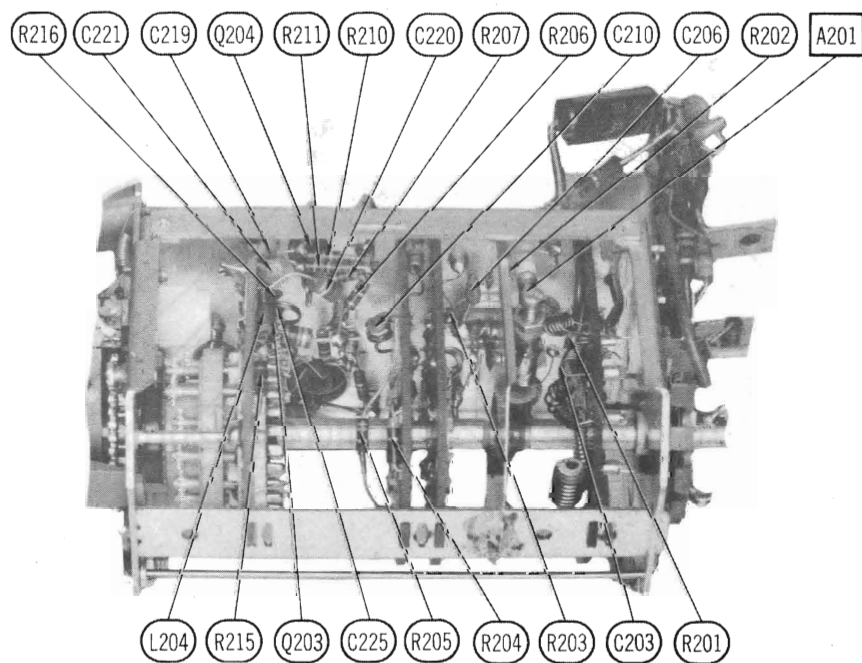
CHROMA PRINTED BOARD

RCA CHASSIS CTC38A/
38B/38H/38XP/38XR/38XT/38XU

FOLDER 3



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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VHF TUNER

VHF TUNER ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: A201..... GENERAL CEMENT #8868, 8987, 9089... WALSCO #2531-X, 2541, 2587
A202, UHF Input Coil..... GENERAL CEMENT #9296, 9297, 9300... WALSCO #2510, 2546, 2547

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.

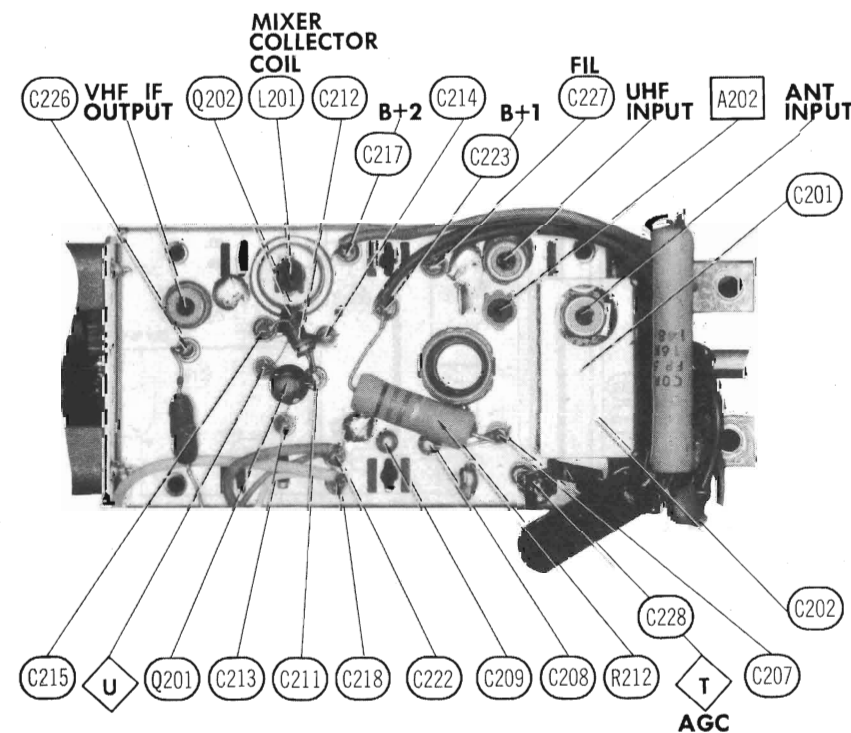
SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. Across antenna terminals with 120 Ω in each lead.	213MC	211.25MC 215.75MC	13	Vert. Input to Point ∇ , low side to ground		Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
2. "	195MC	193.25MC 197.75MC	10	Across Video Det. load resistor.	A201	Increase bias to -15 volts and adjust for MINIMUM amplitude of response.
3. "	See Chart	See Chart	12 thru 7 6 thru 2	Vert. Input to Point ∇ , low side to ground.	Hi Band Coupling A202 & Low Band Coupling	Decrease Bias, Check all channels and make compromise adjustments by expanding or compressing appropriate coils.

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	
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	

UHF TUNER ALIGNMENT INSTRUCTIONS

Tune to UHF Station and adjust UHF Input Coil for best picture and sound.



(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.

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	MFGR. PART No.			IRC PART No.	WORKMAN PART No.	MFGR. PART No.
R33	Thermistor (4300Ω Cold)			124813	R159	V.D.R. † 110V @ 1ma			114862
R51	15K 7W		7G-14K	124679	R173	V.D.R. † 250V @ 1ma			124811
R62	12K 3W		3G-12K	105225	R177	66meg, 6KV	MV-66M	66M	114651
R65	15K 5W		5G-14K	116515	R180	V.D.R. † 870V @ 1ma			112876
R74	6800Ω 4W		5G-6, 8K	107541	R195	39K 3W		4G-39K	125845
R75	6800Ω 3W		3G-6, 8K	106662	R212	15K 10W			124680
R77	39K 4W		4G-39K	105753	R227	22K 3W		3G-22K	124678
R81	15K 7W		7G-14K	124679	R244	22K 3W		3G-22K	124678
R99	4300Ω 5W		5G-4, 3K	112852	R251	8500Ω 15W			124665
R101	16K 5W			124897	R253	560Ω 18W	PW20-600	20W 5Q-600	124667
R132	V.D.R. † 670ma @ 1ma			112876	R254	560Ω 10W	PW10-600	10W 5Q-600	124681
R139	560Ω 3W		3G-560	109249	R255	3000Ω 10W		10G-3K	126491
R140	820Ω 3W	PW5-820	5W-SQ-800	120310	R266	Thermistor (120Ω Cold)		FR191	107191
R148	V.D.R. † 175V @ 1ma			114707	R267	V.D.R. † 20V @ 67ma			116534
R151	Thermistor (5Ω Cold)								

† Voltage Dependent Resistor

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	Balun	125154			
L2	1st Video IF	124711	17-3418	7514-E	T272
L3	47.25MC Trap	124803		7527③	TA292③
L4	41.25MC Trap	121564			
L5	2nd Video IF	124767			
L6	3rd Video IF	124806			
L7	4th Video Input IF	124805			
L8	41.25MC Trap	124804			
L9	4th Video Output IF	124708	17-3418	7549	T272
L10	RF Choke (1.8uh)	109248	19-2010	74F186AP	T811
L11	RF Choke (1.8uh)	109248	19-2010	74F186AP	T811
L12	RF Choke (5.6uh)	109171	19-1008	4609	T820
L13	4.5MC Trap	124810			
L14	Peaking (120uh)	100131②	19-3125①	6153①	T307①
L15	Peaking (390uh)	109945	19-2028	72F394AP	TA329
L16	Peaking (120uh)	124759②		6153①	
L17	Service	124809			
L18	AFT Input	122204			
L19	RF Choke (3.3uh)	122205		74F336AP	T970
L20	AFT Discriminator (Pri.)	122213			
L21	AFT Discriminator (Sec.)	122203			
L22	RF Choke (5.6uh)	109171	19-1008	4609	T820
L23	RF Choke (12uh)	124758		72F125AP	
L24	RF Choke (3.9uh)	116507	19-1003	74F396AP	T818
L25	Sound Take Off	124710		7121-P⑤	TB290⑤
L26	Sound IF	118738			
L27	Quadrature	124709	20-1055⑤	7119-W⑤	TE234⑤
L28	RF Choke (5.6uh)	109171	19-1008	4609	T820
L29	Chroma Take Off	124808			
L30	Chroma Bandpass	124761			
L31	Chroma Phase Shift	124760			
L32	Peaking (620uh)	109257	19-1035	6146	T326
L33	RF Choke (6.8uh)	124766			
L34	Burst	124764			
L35	3.85MC Oscillator Control	121559			
L36	3.58MC Oscillator	121559			
L37	Peaking (620uh)	109257	19-1035	6146	T326
L38	RF Choke (5.6uh)	109171	19-1008	4609	T820
L39A	Line Choke (70uh)	117526		5248	
B	Line Choke (70uh)			5248	
L40	Peaking (620uh)	109257	19-1035	6146	T326
L41	Peaking (36uh)	109758	19-3036	6176	T301
L42	RF Choke (27uh)	116511	19-6033	72F275AP	T360

- ① Shunt with 2200Ω resistor.
- ② Wound on 2200Ω resistor.
- ③ Clip Pin #2.
- ⑤ Remove unused terminal.

ITEM No.	FUNCTION	REPLACEMENT DATA						
		MFG. PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.	WORKMAN PART No.
L45A	Horiz. Oscillator & B Waveform (Sine Wave)	116506		6354				
L46	Focus	113999		6350		FC-5		TC289
L47	Horiz. Efficiency	122918		H-137				
L48	Pincushion Phase	114594		H-178		WC-53		
L49	Right R/G Vert. lines	114597		H-138				T149
L50	Right R/G Horiz. lines	114598		H-139				
L51	Right Blue Horiz. lines	116580		H-140				
L52	Blue Shape	118245						
L53	Convergence Yoke							
A	Blue Section	114630 (907270-501)						
B	Green Section	114630 (907270-501)						
C	Red Section	114630 (907270-501)						

ITEM No.	RATINGS			REPLACEMENT DATA					NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L54	.360A	28Ω	.7H	124807					

ITEM No.	RATING		REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ 2.95A AC	320VAC @ .82A DC	126489					
	SEC. 2	SEC. 3						
	6.3VAC @ 1.1A AC	6.3VAC @ 8A AC						

ITEM No.	USE	REPLACEMENT DATA					NOTES
		MFG. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	Vert. Output	119828 (962792-8)					① Use original core clamp and housing.
T3	Yoke (Horiz. 13.4mh) 90° (Vert. 21mh) Alternate Yoke	114741 † (906186-501) 121526 † (906186-503)	MDF-145C ①	DY-95AC ①	Y-108 ①②	YC-312-2 ①	② Use original yoke plug.
T4	Horiz. Output	119834 (906224-501)					† Used in all models except FL514, GL568, and GL550.
T5	Top & Bottom Pincushion	121560 (907265-504)					† Used in Models FL514, GL568, and GL550.
T6	Side Pincushion	119835 (907264-503)					

ORIGINAL →	VERTICAL OUTPUT						YOKE						YOKE PLUG									
REPLACEMENT ↓	Original Connections						Original Connections						1	2	3	4	5	6	7	8		
							Yel	Blk	Grn	Wh	Red	Blu	Brn	TO YOKE TERMINAL								
MERIT														NO WIRING CHANGE NECESSARY								
STANCOR														NO WIRING CHANGE NECESSARY								
THORDARSON							Yel	Wh	Yel Blk	Red Wh	Red	Grn	Blue		Yel	Yel Blk	Red	Org.	Blue	Red Wh	Wh	
TRIAD														NO WIRING CHANGE NECESSARY								

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
TT	15,700Ω	3.2Ω	124765					

ITEM No.	TYPE		REPLACEMENT DATA			NOTES
			MFGR. PART No.	JENSEN PART No.	QUAM PART No.	
SPI	4" x 6"	PM 3.2Ω	107476 ①	P4X6X3	46A1	① All models except GL568/688/788/FL54, GL790/798/800/802/804/550. ② Used in Models GL800/GK/SK/YK, GL802LK, and GL804FK. ③ Models GL688W, GL788WK, GL788WRK, GL790FK, GL798SK. ④ Model FL514WK. ⑤ Models GL550M/W, GL568L.
	7" x 5"	PM 3.2Ω	112120 ②			
	4" x 6"	PM 6.4Ω	113038 ③	15Z8	46A07Z10	
	4"	PM 3.2Ω	111763 ④	4K5	4A05	
	4"	PM 3.2Ω	117338 ⑤			

ITEM No.	DESCRIPTION	REPLACEMENT DATA							
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.	
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	
F1	Circuit Breaker Hold Current 1.2A Break Current 1.75A	122207					8151.75		FA2
F2	3 $\frac{1}{2}$ " length #26 fuse wire	102792							
F3	1" length #30 fuse wire								

(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.

High Voltage Lead	Use BELDEN NO.	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

• AMPEREX •			• GENERAL ELECTRIC •			• RCA •			• SYLVANIA •		
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE		ITEM No.	USE	TYPE	
V201	RF Amp.	6DS4		V10	HV Rectifier	3A3A					
V1	1st Video Amp. -Sync Sep.	6GH8A		V11	Focus Rectifier	2AV2					
V2	Video Cathode Follower - Chroma Amp.-AGC Keying	6GH8A		V12	Shunt Regulator	6BK4B					
V3	Video Output	12HG7		V13	Horiz. Blanking Amp. - 3.58MC Oscillator	6GH8A					
V4	Audio Detector	6H26		V14	1st Chroma Bandpass Amp. - G-Y Amp.	6GH8A					
V5	Audio Output	6AQ5A		V15	2nd Chroma Bandpass Amp. - B-Y Amp.	6GH8A					
V6	Vert. Mult. - Vert. Output	6GF7A		V16	Burst Amp.	6CB6A					
V7	Horiz. AFC - Horiz. Osc.	6FQ7/6CG7		V17	R-Y Amp.	6CB6A					
V8	Horiz. Output	6LQ6									
V9	Damper	6CL3									

ITEM No.	REPLACEMENT DATA				NOTES
	MFGR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V18	25X P22 or 25AJ P22 or 22UP22 or 22JP22	25A P22A ①	H25X P22 ② H25AJ P22 ② H22UP22 ② H22JP22 ②	RE25AP22A ③ RE25AJ P22 ③ RE22UP22 ③ RE22JP22 ③	① Aluminized ② Hi-Lite ③ Color Bright "85"

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA						
			MFGR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q201		Mixer	119414		GE-11	TR-24		SK-3019	ECG 108
Q202		Mixer	119414		GE-11	TR-22		SK-3018	ECG 108
Q203		Oscillator	116199		GE-11	TR-22		SK-3018	ECG 108
Q204		AFT	118822		GE-11	TR-22		SK-3018	ECG 108
Q301		UHF Oscillator	114267		GE-11	TR-24		SK-3019	ECG 108
Q1		1st Video IF	124757						
Q2		2nd Video IF	124757						
Q3		3rd Video IF	124754						
Q4		1st Sound IF	124753	DS-66	GE-10	TR-21	HEP54	SK-3020	ECG 123
Q5		2nd Sound IF	124756	DS-66	GE-10	TR-21	HEP54	SK-3020	ECG 123
Q6		IF AGC	124753	DS-66	GE-10	TR-21	HEP54	SK-3020	ECG 123
Q7		Color Killer	124755	DS-83	GE-21	TR-28	HEP242		ECG 129
Q8		ACC	123941	DS-66	GE-18	TR-25	HEP53		ECG 128

ITEM No.	FUNCTION	MFR. PART No.	REMARKS
IC1	AFT Amp. & Discriminator	126604 (TA5274)	

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS		NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	RCA PART No.	SARKES TARZIAN PART No.	
X1	113998	GE-504A	8D6 or 18DB8A ①	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5959-3 ①	① A single unit replacement for all four (4) bridge circuit rectifiers.
X2	113998	GE-504A	8D6 or 18DB8A ①	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5959-3 ①	
X3	113998	GE-504A	8D6 or 18DB8A ①	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5959-3 ①	
X4	113998	GE-504A	8D6 or 18DB8A ①	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or S-5959-3 ①	
X5	113391	GEGR-2	61-8968	ECG 119		S-915	
X6	125528	GE-504A	8D4	ECG 116		40C	
X7	125528	GE-504A	8D4	ECG 116		40C	
X8	125528	GE-504A	8D4	ECG 116		40C	
X9	125528	GE-504A	8D4	ECG 116		40C	
X10	125528	GE-504A	8D4	ECG 116		40C	
X11	113998	GE-504A	8D6 or 5A6-D	ECG 116 or ECG 117	SK-3017A or SK-3032	60C or F-6	
X12	112524 (1N60)	1N60	1N60	ECG 109			② Matched Pair
X13	112524 (1N60)	1N60	1N60	ECG 109			
X14	109474	6GC1	DD04	ECG 113			
X15	112524 (1N60)	1N60	1N60	ECG 110 ②			
X16	112524 (1N60)	1N60	1N60				
X17	112524 (1N60)	1N60	1N60	ECG 110 ②			
X18	112524 (1N60)	1N60	1N60				
X19	125844	GE-504A	8D6 or 5A6-D	ECG 116		60C or F-6	
X20	125844	GE-504A	8D6 or 5A6-D	ECG 116		60C or F-6	
X21	125844	GE-504A	8D6 or 5A6-D	ECG 116		60C or F-6	
X22	125844	GE-504A	8D6 or 5A6-D	ECG 116		60C or F-6	
X23	124812	GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117		40C or F-4	

**RCA CHASSIS CTC38A/
38B/38H/38KP/38KF/38KT/38KU**

FOLDER 3

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	80 450V	123491			CC0370 & PR150-50	XC3-36.1 & QT1-25	FP378 & MTA150F35	TVL-4714.11
B	50 450V							
C	20 250V							
D	150 25V							
C2A	80 450V	124665			DD0678A		FP342.75 & TC45A	TVL-3719.10 & TE-1509
B	20 150V							
C	25 25V							
C3A	80 450V	116503	AFH3-46		CC0370A	XC3-32	FP378	TVL-3791.8
B	50 450V							
C	20 450V							
C4	15 20V	231679	PTT115	EA30-15	NLW15-25	MTI-9	MTA15D35	TE-1205
C5	15 20V	231679	PTT115	EA30-15	NLW15-25	MTI-9	MTA15D35	TE-1205
C6	100 15V	124814	BCD15100	EPI5-100	NLW100-15	MTI-19	MTV100CF15	TE-1162
C7	50 150V	109227	PR51480		BR50-150	QTI-17	TC49A	TVA-1414
C8	5 10VNR	115868	PR57550		BRNP5-15	NQPT-1	TCN105	TVAN-1203.1

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.
C11	2							
C12	5	NPO 10%	#116502	NPO-DI 5.0		CZ60IC1H5R0D	CCTO-050	10TCC-V50
C13	3-15							
C14	91	NPO 10%	#121570		TCZ-91			
C15	5	NPO 10%		NPO-DI 5.0		CZ60IC1H5R0D	CCTO-050	10TCC-V50
C16	15	NPO 5%			DTZ-15	CZ60ICG100J		10TCC-Q15
C17	10	NPO 10%		NPO-DI 10	DTZ-10	CZ60ICG100J	CCTO-100	10TCC-Q10
C18	.001			GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C19	.001			GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C20	56	NPO 5%			TCZ-56			CNO456
C21	10	10%		GPD COH100K	DD-100	CZ60ICG100K	CCD-100	GP410
C22	.001			GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C23	.001			GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C24	51	NPO 5%			DTZ-50			CNO450
C25	.001	10%		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C26	10	NPO 10%		NPO-DI 10	DTZ-10	CZ60ICG100J	CCTO-100	10TCC-Q10
C27	1.8	5%	#118559					10TCC-V18
C28	.001			GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C29	100	NPO 10%		NPO-DI 100	DTZ-100	CV60ICG101K	CCTO-101	10TCC-V100
C30	30	NPO 5%			TCZ-30			10TCC-Q30
C31	3.3	5%		NPO-DI 3.3	TCZ-3R3			10TCC-V33
C32	220	5%		ADM-15-221	CPR-220J			MS-32
C33	5	NPO 10%		NPO-DI 5.0		CD15 F221J500	DM-15-201J	MS-32
C34	10	NPO		NPO-DI 10	DTZ-10	CZ60IC1H5R0D	CCTO-050	10TCC-Q10
C35	150	5%		GPD X5 F151K	DD-151			10TCC-Q15
C36	.001	1KV 10%		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C37	.001	10%		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C38	7	NPO 10%		NPO-DI 6.8	DTZ-6R8	CZ60IC1H6R8D		CNO568
C39	12	NPO 10%			TCZ-12	CZ60ICG120J	CCTO-120	10TCC-V12
C40	18	N150 10%					*	10TCC-Q18
C41	.047	100V		TTP-05	DD-503	H0V101ZV503Z	CCD-503	TGL-503
C42	.01			GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C43	.047	100V		TTP-05	DD-503	H0V101ZV503Z	CCD-503	TGL-503
C44	.047	100V		TTP-05	DD-503	H0V101ZV503Z	CCD-503	TGL-503
C45	.01	10%		GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C46	.047	100V 10%		V1612S47		DMF1S47	1DP-2-473	PVC1147
C47	680			GPD X5 F681K	DD-681	JBV601Y P681K	CCD-681	GP368
C48	.22	75V		V1612 P22		DMF1 P22	1DP-3-224	PVC1022
C49	56	NPO			TCZ-56			CNO456
C50	.22	100V		V1612 P22		DMF1 P22	1DP-3-224	PVC1022
C51	.01			GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C52	1	10%		NPO-DI 1.0	TCZ-1			CNO510
C53	2	300V	#119595					10TCC-V10
C54	56	NPO 5%			TCZ-56			CNO456
C55	.001	10%		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C56	.001	10%		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C57	82	2%	#122202					10TCC-Q82
C58	94	2%	#122135					10TCC-Q94
C59	.001	10%	#112037					10TCC-Q01
C60	.001	10%	#112037					10TCC-Q01
C61	4.7	5%		NPO-DI 4.7	DTZ-4R7	CZ60IC1H4R0D	CCTO-4R7	CNO547
C62	10	NPO		NPO-DI 10	DTZ-10	CZ60ICG100J	CCTO-100	CNO410
C63	10	NPO 5%			DTZ-10	CZ60ICG100J		CNO410
C64	62	NPO 10%		NPO-DI 68	DTZ-68	CX60ICG680K	CCTO-680	CNO468
C65	620	5%		ADM-19-621	CPR-620J	BYX601U103M	DM-16-621J	MS-362
C66	.01	10%		GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C67	.01	10%		GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C68	.01	10%		GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C69	.01	10%		GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C70	.001		#112037					10TCC-Q01
C71	.0012			GPD X5 F122K	DD-122	JB5601Y P122K	CCD-122	GP212
C72	.001	1KV		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C73	.01	10%		GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C74	10	N470 10%					*	10TCC-Q10
C75	.047	100V		V1612S47		DMF1S47	1DP-2-473	PVC1147
C76	.0068	10%		GPD X5R682K	DD-682	BYX601Y P682P	CCD-682	JP268
C77	.0022	10%		GPD X5 F222K	DD-222	JBX601Y P222K	CCD-222	GP222
C78	.0047			GPD X5R472K	DD-472G	JBV601Y P472K	CCD-472	JP247
C79	.0022	1KV 10%		GPD X5 F222K	DD-222	JBX601Y P222K	CCD-222	GP222
C80	.1	100V		DEB2E1		DMF1 P1	1DP-2-104	PVC101
C81	.001	10%		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C82	.01	10%		GPD X5S103K	DD-103	BYX601U103M	CCD-103	JP110
C83	.001	10%		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C84	.022	200V		V1612S22		DMF2S22	4DP-2-223	PVC2122
C85	.0033			GPD X5R332K	DD-332	JBV601Y P332K	CCD-332	JP233
C86	150	10%		GPD X5 F151K	DD-151		CCD-151	GP215
C87	.001	10%		GPD X5 F102K	DD-102	JB5601Y P102K	CCD-102	GP210
C88	.0015			GPD X5 F152K	DD-152		CCD-152	GP215
C89	.033	600V 10%		DEB6S33		DMF6S33	6DP-3-333	PVC6133
C90	.0068	400V 10%		V1614D68	CPR-6800J	DMF4D68	6DP-1-682	PVC6268
C91	.0022			GPD X5 F222K	DD-222	JBX601Y P222K	CCD-222	GP222
C92	680			GPD X5 F681K	DD-681	JBV601Y P681K	CCD-681	GP368
C93	680			GPD X5 F681K	DD-681	JBV601Y P681K	CCD-681	GP368
C94	.1	600V		DEB6E1		DMF6E1	6DP-4-104	PVC601
C95	.047	200V		V1612S47		DMF2S47	4DP-3-473	PVC2147
C96	.0068	1KV		BE10D68		DEPMS1D68	16DP-3-682	PVC16268
C97	.0047	1.6KV 10%		HVD-15-4700	DD30-472	HV1621ZU472P		2HV247
C98	.18	200V 10%				PKM4P18		30GA-D47
C99	470	N1500 10%	#114602				*	
	2.5KV							

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.
C100	470 N1500 10% 2.5KV	#114602				*		
C101	.0018 5%					*	3DY310	
C102	100 N1500/3KV/5%					CCTO-470	CNO447	10TCC-Q47
C103	47 NPO 10%		NPO-DI 47	DTZ-47 TCZ-56	CX601 C0470K	CCTO-560	CNO456	10TCC-Q56
C104	.1 200V					2DP-3-104	PVC201	2PS-P10
C105	.1 200V		DBE2 PI		DMF2 PI	2DP-3-154	PVC2015	2PS-P15
C107	.001 10%		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C108	820 10%		GPD X5 F821K	DD-821	JB Y601 Y P821K	CDD-821	GP382	10TS-T82
C109	820 10%		GPD X5 F821K	DD-821	JB Y601 Y P821K	CDD-821	GP382	10TS-T82
C110	.01 400V 10%		V1614S1	CPR-10000J	DMF4S1	4DP-1-103	PVC411	4PS-S10
C111	390 N1500 5% 1.5KV	#109806				*	2DY347	
C112	680 5%		ADM-20-681	CPR-680J	CD19 F681J500	DM-16-681J	SX368	MS-368
C113	.0015 600V 10%		DBE6D15		DMF6D15	6DP-1-152	PVC6215	6PS-D15
C114	.01 600V		DBE6S1		DMF6S1	6DP-2-103	PVC611	6PS-S10
C115	.1 600V		DBE6 PI		DMF6 PI	6DP-1-101	PVC601	6PS-P10
C116	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C117	.039 600V 10%		DBE6S39		DPM56S39	6DP-3-393	PVC6139	6PS-S39
C118	130 N2200 6KV ¹	#109229				*		10TCY-T12
C119	180 N1500/1KV/10%					*		10TCY-T18
C120	68 N1500/4KV/10%					*	5DY468	
C121	.0022 1KV		BE10D22		DPM516 D22	16DP-2-222	PVC16222	16PS-D22
C122	.01 1KV	①	SGC5039	GAP-103			SPG113	302C105
C123	.01 1KV	①	SGC5039	GAP-103			SPG113	302C105
C124	22 N750 1KV				CZ601 UJ220K	CCTN-220	CN7422	10TCU-Q22
C125	.027 600V 10%		DBE6S27		DPM56S27	6DP-3-273	PVC6127	6PS-S27
C126	.068 200V		V1612S68		DMF2S68	6DP-3-683	PVC2168	4PS-S68
C127	.033 600V 10%		DBE6S33		DMF6S33	6DP-3-333	PVC6133	6PS-S33
C128	150		GPD X5 F151K	DD-151		CDD-151	GP315	10TS-T15
C129	68 N150 10%					*		10TCP-Q68
C130	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C131	.047		TTP-05	DD-503	HOV101 ZV503Z	CDD-503	TA150	TGL-S50
C132	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C133	.047		TTP-05	DD-503	HOV101 ZV503Z	CDD-503	TA150	TGL-S50
C134	.1 100V		DBE2 PI		DMF1 PI	1DP-2-104	PVC101	225 P10491
C135	.047 100V		TTP-05	DD-503	HOV101 ZV503Z	CDD-503	TA150	TGL-S50
C136	.8 NPO 10%		NPO-DI 8.2					10TCC-V82
C137	.01 100V		DBE2 PI		DMF1 PI	1DP-2-104	PVC101	225 P10491
C138	.001 10%		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-S10
C139	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C140	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C141	120 10%		GPD X5 F121K	DD-121	JBZ601 Y P121K	CDD-121	GP312	10TS-T12
C142	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C143	820 10%		GPD X5 F821K	DD-821	JB Y601 Y P821K	CDD-821	GP382	10TS-T82
C144	18 NPO 10%			TCZ-18	CY601 CG180J	CCTO-180	CNO418	10TCC-Q18
C145	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C146	39 N150 10%					*		10TCP-Q39
C147	39 N150 10%					*		10TCP-Q39
C148	.047 100V		TTP-05	DD-503	HOV101 ZV503Z	CDD-503	TA150	TGL-S50
C149	.0033 10%		GPD X5S1332K	DD-332	JBV601 YP332K	CDD-332	JF233	10TS-D33
C150	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C151	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C152	.1 100V		DBE2 PI		DMF1 PI	1DP-2-104	PVC101	225 P10491
C153	.3 10%	#125843						
C154	150		GPD X5 F151K	DD-151		CDD-151	GP315	10TS-T15
C155	.82pf 5%	#116500						
C156	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C157	1-6	#115092						
C158	.8 NPO 10%		NPO-DI 8.2					10TCC-V82
C159	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C160	33 N150 10%							10TCP-Q33
C161	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C162	360 5%		ADM-15-361	CPR-360J	CD15 F361J500	DM-15-361J	SX336	MS-336
C163	39 N150 10%					*		10TCP-Q39
C164	39 N150 10%					*		10TCP-Q39
C165	.047 100V		TTP-05	DD-503	HOV101 ZV503Z	CDD-503	TA150	TGL-S50
C166	.0022 10%		GPD X5 F222K	DD-222	JBX601 Y P222K	CDD-222	GP222	10TS-D22
C167	.01 10%		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C168	.001 1KV		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C169	.001 1KV		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C170	.001 1KV		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C171	.01 1KV	①	GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C172	680 1KV		GPD X5 F681K	DD-681	JB Y601 Y P681K	CDD-681	GP368	10TS-T68
C173	.001 1KV		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C174	.001 1KV		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C175	.001		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C176	.001		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C177	.082 400V 10%		DBE6S82		PKM4S82	6DP-4-823		6PS-S82
C178	.082 400V 10%		DBE6S82		PKM4S82	6PS-4-823		6PS-S82
C179	.001		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C180	.001		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C181	.15 75V 10%		V1612 P15		DMF1 P15	1DP-3-154	PVC1015	2PS-P15
C182	.1 100V 10%		DBE2 PI		DMF1 PI	1DP-2-104	PVC101	225 P10391
C183	.001		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C184	.27 75V 10%				WMF1 P27	4DP-5-274		225 F27497R
C185	.1 200V		DBE2 PI		DMF2 PI	2DP-3-274	PVC201	2PS-P10
C186	.001		GPD X5 F102K	DD-102	JB5601 Y P102K	CDD-102	GP210	10TS-D10
C187	150		GPD X5 F151K	DD-151		CDD-151	GP315	10TS-T15
C188	.01		GPD X5S103K	DD-103	BYX601 ZU103M	CDD-103	JP110	10TS-S10
C189	.47 75V		DBE2 P47		DMF1 P47	1DP-4-474	PVC1047	2PS-P47
C190	470		GPD X5 F471K	DD-471	JBZ601 Y P471K	CDD-471	GP347	10TS-T47
C191	.47 N750		N750-DI 47	DTN-47	CY601 UJ470K	CCTN-470	CN7447	10TCC-Q47
C192	.1 600V		DBE6 PI		DMF6 PI	6DP-4-104	PVC601	6PS-P10

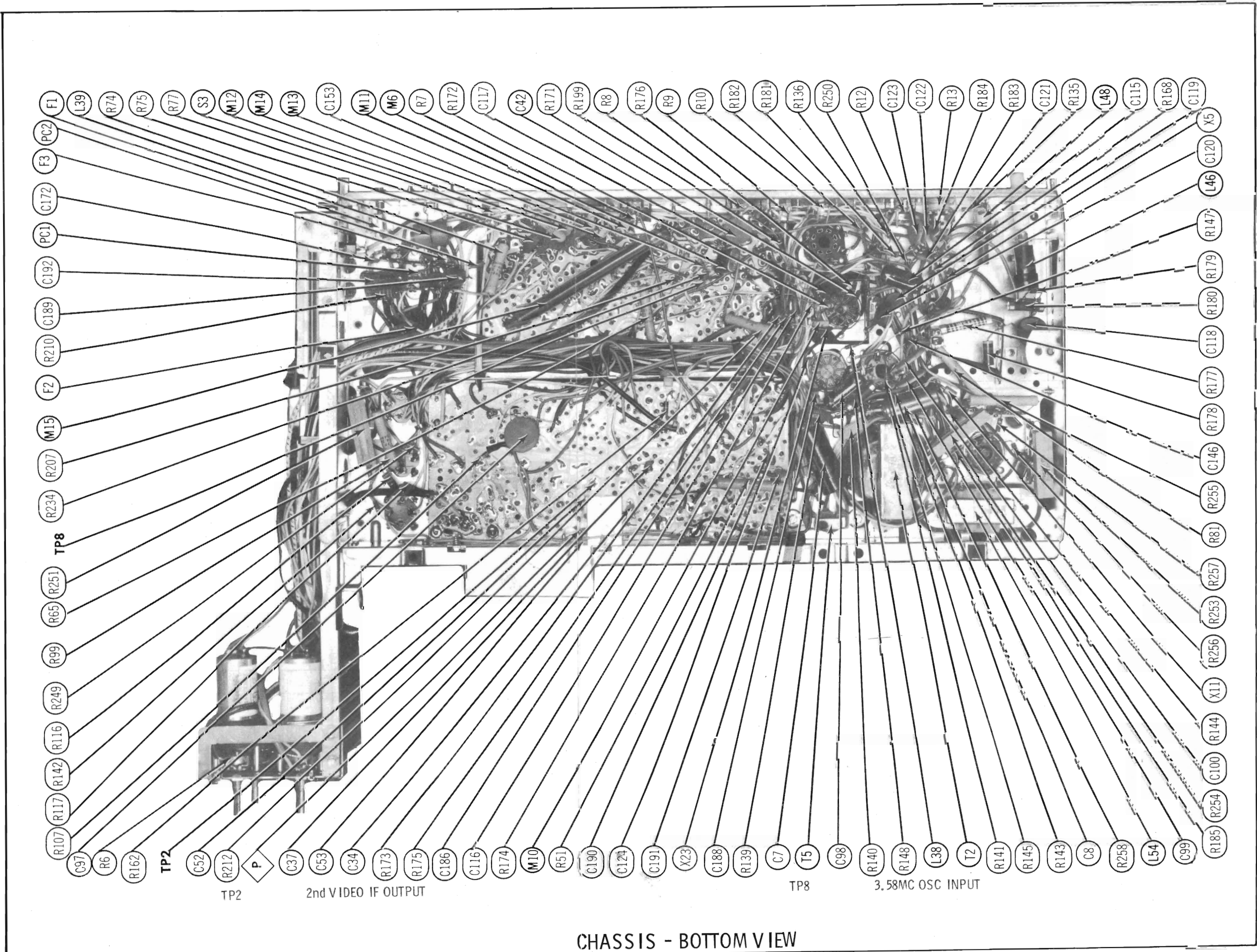
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

RCA Part Number

① Includes Spark Gap.

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	1meg, 225K Tap	126127 (1473325-7)				
	Volume/Switch	1meg, 165K Tap	121310⑥ (1472207-38 S)	F12-1meg①, SP212, KR-8	C47SF1-1meg①, RS-3/16 or (NPF1-1meg①, UPP-H-300, PPAP, NWG-18)	B13-137X①, SK8 or (PPQ13-137X①, SK8)	PP16T25①, DS37 or (RUP16T25①, SL35)
R2	Brightness/AFT Switch	150K	124989 (1472207-52)	F1-150K, SP212, KR-8	NP-150K-S, UPP-H-300, PPAP, NWG-18	B11-328, SK8 or (BU2, CF72, SS1A, K)*	RUP154L, SL35 or (P154L, 3038, FPP-1)
	Brightness/Switch Brightness	150K 150K	126914⑦ 121312⑧ (1472200-116)	F1-150K, SFS212	A47-150K-S, RS-3/16 or (NP-150K-S, SE-F-400)	B11-328, SK9 or (BU1, CF72, SS4, DC1)*	RU154L, SL35, IS2125 or (UA25L, SD2125) or (U43, DS37)
R3A	Tone	2.5meg	121587 (1472205-1)	F1-2.5meg, R1-50K②, FFS011, RFS102	NP-2.5meg, NP-50K-S②, UPC-B-013, UR-D-102	†QJ-2440	FB255L (P255L, 3014)③, RU54L ②, OX687, IS1125
R4A	Tone Horiz. Hold	35K				● QJ-2457	FB12L (P12L, 3014)③, RU754L, OX687, IS1125
	Tone Horiz. Hold Contrast	2.5meg 35K 100Ω	126118⑦ 126115⑧ 121586	F1-100, R1-750K, FFS011, RFS102			
R5	Vert. Hold	750K	(1472205-2)				
	Contrast Vert. Hold	100Ω 750K 700Ω	126117⑦ 126116⑧ 122354				
R5	Color	450Ω Tap	(1473325-3)				
	Color Color Color	500Ω 700Ω 500Ω	126113⑨ 126568 ⑩ 121669 ⑪ (1472200-117)	F1-500, SNF108	A47-500-S, RS-3/16 or NP-500-S, SE-F-400)	B11-103, SK9 or (BU1, CF4, SS4, DC1)*	UA52L, SD1125 or (RU52L, SL35, IS1125) or (U2, DS37)
R6	Tint	10K	122355 (1473325-4)				
	Tint	10K	126114⑨				
	Tint	10K	126119 ⑩				
	Tint	10K	121667 ⑪ (1472200-100)	F5-10K, SNF108	A47-10K-V, RS-3/16 or (NP-10K-V, SE-F-400)	B17-116, SK9 or (BU1, CF35, SS4, DC1)*	UA14R, SD1125 or (RU14R, SL35, IS1125) or (U19, DS37)
R7	Brightness Limiter	500K	112842 (1470372-4)	TT-59 or (F1-500K, SNK010)	B47-500K-S or (NP-500K-S, NML-A-300, TT-2)	B11-133, TM4 or (BU11, CF16, SS6)*	PTA55L or (RU55L, SL37, SN281) or (UA55L, SN281)
R8	Color Killer	1meg	112841 (1470372-2)	TT-69 or (F1-1meg, SNK010)	B47-1meg-S or (NP-1meg-S, NML-A-300, TT-2)	B11-137, TM4 or (BU11, CF17, SS6)*	PTA1254L or (RU16L, SL37, SN281) or (UA16L, SN281)
R9	AGC	2.5meg	124669 (1470372-31)	TT-83 or (F1-2.5meg, SNK010)	B47-2.5meg-S or (NP-2.5meg-S, NML-A-300, TT-2)	B11-239, TM4 or (BU11, CF20, SS6)*	RU255L, SL37, SN281 or (UA255L, SN281) or (SU565)
R10	Top & Bottom Pincushion Amplitude	10K 2W	116558 (1472273-7)		NPW-10K, NML-A-300, TT-2	P115R103A or (AWRL-10000) or (BU1, WF9, SS6)*	MR10KT or (WV10K) or (MR10KB)
R11	IF AGC Bias	2.5meg	126667 (147272-28)	T-2meg			MTC26L1
R12	Height	100K	122176 (1470372-30)	F1-100K, SNK012	B47-100K-S or (NP-100K-S, NML-A-300, TT-2)	B11-128, TM4 or (BU11, CF13, SS6)*	PTA15L or (RU15L, SL37, SN1000) or (UA15L, SN1000)
R13	Vert. Linearity	3.4meg	114020 (1472268-6)	F1-4meg③, SNK010		HLC3③	HVC355L
R14A	Red Screen	1.5meg	121574			H4⑤(A-E20, A3), (B-E20, A3), (C-E20, A3)	
R14B	Green Screen	1.5meg	(1471856-4)				
R14C	Blue Screen	1.5meg					
R15A	Red Drive	10K	121575 (1471856-6)			H4⑤(A-E7, A3), (B-ET, A3), (C-ET-A3)	
R15B	Green Drive	10K				H3⑤(A-E5, A3), (B-E9, A3)	
R15C	Blue Drive	10K					
R16A	CRT Bias	3000Ω	121588 (1472895-4)				
R16B	Video Peaking	30K	(1472895-4)				
R17	R/G Horiz. Lines (Bottom)	500Ω 2W	114623 (1472254-1)	V-500	U39-500	110-600	MR600P, MRS375
R18	R/G Horiz. Lines (Top)	120Ω 2W	106320 (1472254-9)	V-120	U39-125	110C120	MRC120P
R19	R/G Horiz. Lines (Left)	60Ω 2W	105059 (1472254-8)	V-60	U39-75	110C60	MRC60P
R20	R/G Vert. Lines (Bottom)	60Ω 2W	105059 (1472254-8)	V-60	U39-75	110C60	MRC60P
R21	R/G Vert. Lines (Top)	150Ω 2W	109472 (1472254-11)	V-150	U39-150	110C150	MRC150P
R22	R/G Vert. Lines (Left)	150Ω 2W	109472 (1472254-11)	V-150	U39-150	110C150	MRC150P
R23	Blue Horiz. Lines (Bottom)	60Ω 2W	105059 (1472254-8)	V-60	U39-75	110C60	MRC60P
R24	Blue Horiz. Lines (Top)	60Ω 2W	105059 (1472254-8)	V-60	U39-75	110C60	MRC60P
R25	Blue Horiz. Lines (Left)	90Ω 3W	127029 (1472254-5)				MR100P, MRS375



CHASSIS - BOTTOM VIEW

11A CHASSIS C163A/
38B/38H/38XP/381B/381T/381U

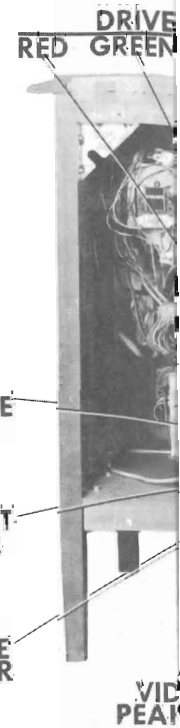
1016R 3

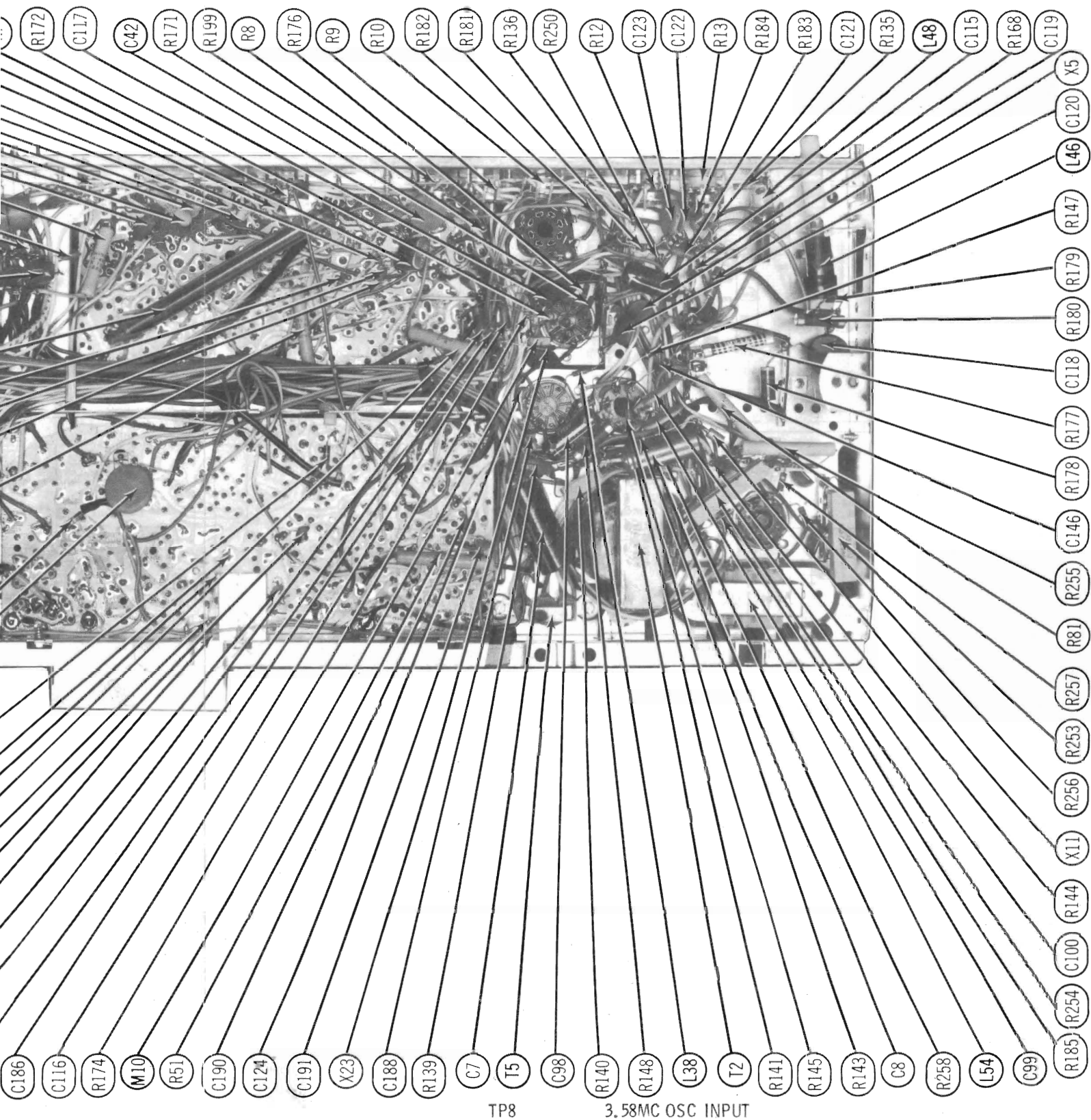
CHASSIS REMOVAL

1. Remove all the knobs from the front control panel. Remove 7 screws and 2 springs from the cabinet.
2. Disconnect the speaker leads at the speaker terminals. Disconnect the picture-tube socket, convert the deflection-yoke plug. Disconnect the plug located on left side of chassis.
3. Loosen 3 hex bolts holding tuner mounting panel. Remove the tuner mounting assembly. Clear the bolts.
4. Remove 4 screws from the bottom of the control panel. Remove plug from the chassis. Remove chassis and tuner mounting assembly.

PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" procedure and place picture tube on soft protective surface.

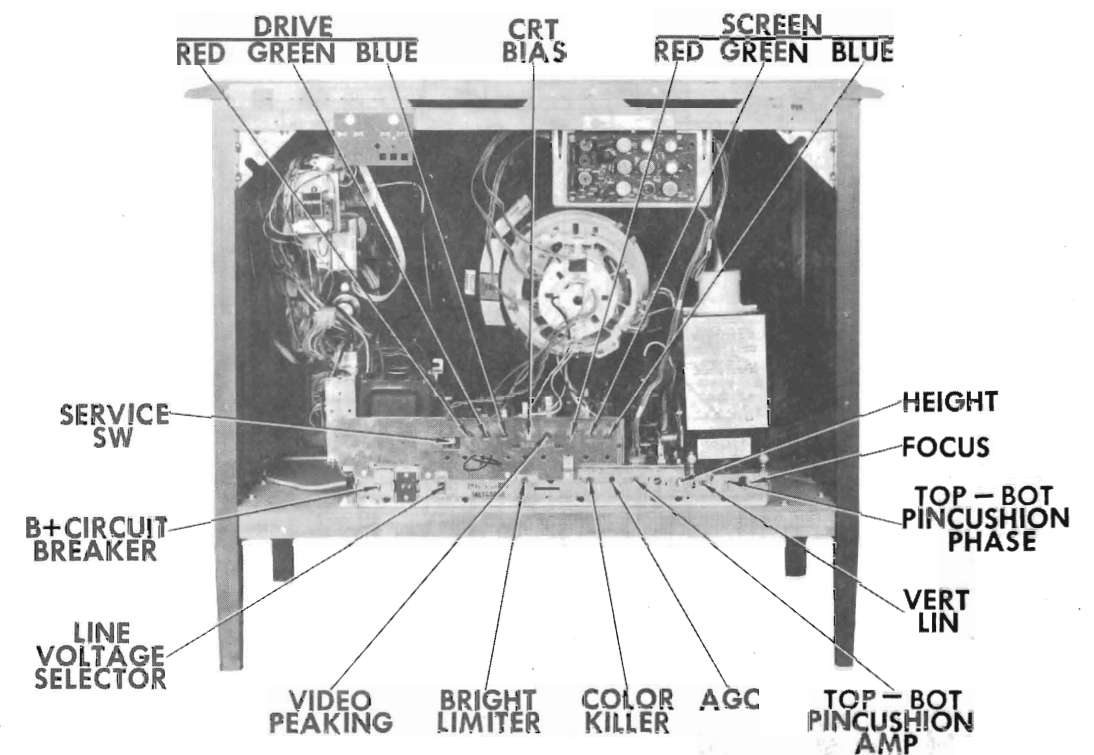




CHASSIS - BOTTOM VIEW

RCA CHASSIS CTC38A/
38B/38H/38XP/38XR/38XT/38XU

FOLDER 3



CABINET-REAR VIEW DISASSEMBLY INSTRUCTIONS

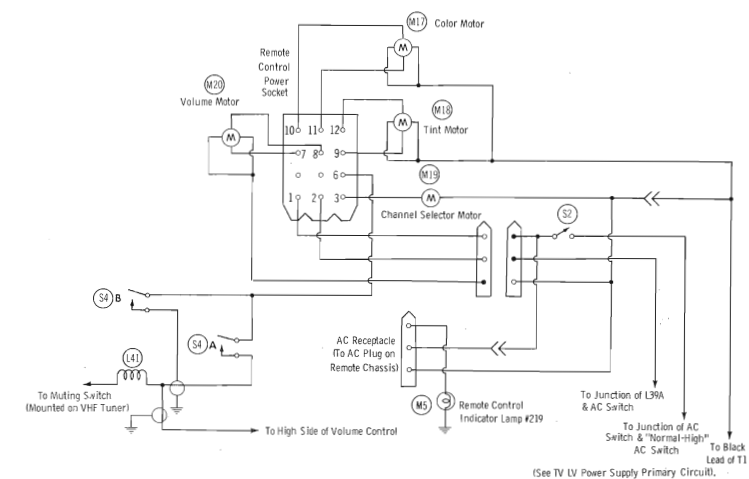
CHASSIS REMOVAL

1. Remove all the knobs from the front control panel and disconnect the antenna. Remove 7 screws and 2 spring clips holding rear cover to the cabinet.
2. Disconnect the speaker leads at the speaker. Disconnect high-voltage lead, picture-tube socket, convergence-assembly plug, and the deflection-yoke plug. Disconnect the automatic degaussing coil plug located on left side of chassis.
3. Loosen 3 hex bolts holding tuner mounting assembly to the front panel. Remove the tuner mounting assembly by lifting it upward to clear the bolts.
4. Remove 4 screws from the bottom of the chassis and one nut from the control panel. Remove plug from the remote control transducer. Remove chassis and tuner mounting assembly from the cabinet.

PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" procedure and lay cabinet facedown on a soft protective surface.

2. Unbolt the convergence board chassis from the cabinet and remove the blue lateral assembly from the picture-tube neck.
3. Loosen the yoke-deflection clamp screws and remove the yoke. Remove the picture-tube shield held by 4 bolts. Leave the picture-tube grounding spring attached.
4. Remove 4 bolts holding the four picture-tube mounting brackets to the mask. Detach the degaussing coil from its holding bracket to gain access to the bolts.
5. Using the mounting brackets as hand holds lift the picture-tube assembly from the cabinet. Do not lift picture tube by the neck of the tube.



REMOTE MOTOR CIRCUIT