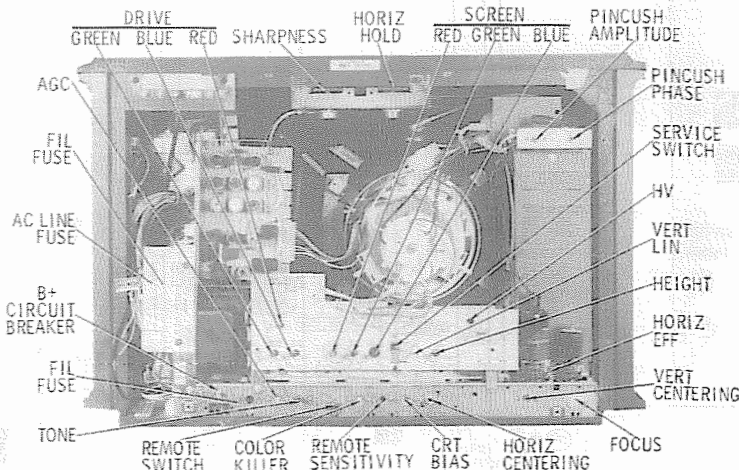


TUNER ASSEMBLY



CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL MODEL 2-C6283

Remove eleven screws holding back and remove back. Remove all knobs.

Disconnect plugs for tuner cluster, degaussing coil, convergence yoke, deflection yoke, picture-tube socket and high-voltage anode lead. Remove two screws holding rear control panel.

Remove two screws holding chassis. Before sliding chassis all the way out, it is necessary to disconnect speaker. Remove two screws holding lower control panel, unsolder and remove IF cable and remove chassis from cabinet.

Remove one screw holding remote control transducer. Remove six screws holding tuner cluster and remove tuner cluster. Channel indicator lights are accessible at this point.

PICTURE TUBE REMOVAL

Follow "Chassis Removal" procedure. Lay set face down on a protective surface.

Remove blue lateral, purity magnet assembly, convergence yoke and deflection yoke. Remove four springs holding yoke clamp and remove yoke clamp.

Remove four screws holding degaussing shield and remove shield and degaussing coil.

Remove two screws holding picture tube. Lift picture tube out of cabinet using mounting brackets as hand holds. Do not lift picture tube by the neck of the tube.

SERVICING IN THE FIELD

CRT IMPLSION PROTECTION AND CLEANING

Implosion protection is an integral part of the picture tube, cleaning accomplished without CRT removal.

FUSE DEVICES

A circuit breaker (2.1-amp) is used for low-voltage power-supply protection. (See photo "Cabinet-Rear View".)

A 5.0-amp fuse is used for AC line protection. (See photo "Cabinet-Rear View".)

Two fuses are used for filament protection. (See "Tube Placement Chart".)

VHF TUNER

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

HORIZONTAL OSCILLATOR

Adjustment of the horizontal hold is accomplished by the proper setting of the horizontal hold control. (See photo "Cabinet-Rear View".)

LAMP ACCESSIBILITY

Refer to "Chassis Removal".)

FOCUS

The focus may be varied by means of a focus coil. (See photo "Cabinet-Rear View".)

CENTERING

Horizontal centering is accomplished by proper adjustment of the horizontal centering control. (See photo "Cabinet-Rear View".)

Vertical centering is accomplished by proper adjustment of the vertical centering control. (See photo "Cabinet-Rear View".)

PINCUSHION CORRECTION

Refer to "Miscellaneous Adjustments."

SCREEN/DRIVE BACKGROUND

Refer to "Miscellaneous Adjustments."

CRT BIAS

Refer to "Miscellaneous Adjustments."

SET 1273 FOLDER 2

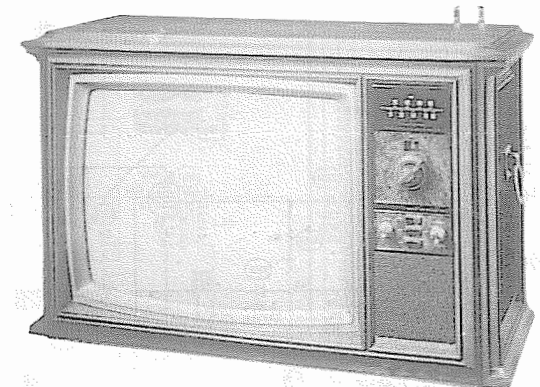
PHOTOFACT® Folder

with CIRCUITRACE

For Supplier Address See PHOTOFACT Index

MAGNAVOX
CHASSIS T958 SERIES

COLOR TV



Representative Model using Chassis T958-25-AF

CHASSIS

- T958-01-AA/-AB/-BA/-BB
- T958-02-AA/-AB
- T958-03/-05/-06-AA/-AB/-AC/-BA/-BB/-BC/-CA/-CB/-CC/-DA/-DB/-DC
- T958-07-AC/-BC/-CC/-DC
- T958-08-AA/-AB/-AC/-BA/-BB/-BC/-CA/-CB/-CC/-DA/-DB/-DC
- T958-10-AA/-AB/-AC/-AX/-BA/-BB/-BC/-BX/-CA/-CB/-CC/-CX/-DA/-DB/-DC/-DX
- T958-11-AA/-AB/-AC/-BA/-BB/-BC/-CA/-CB/-CC/-DA/-DB/-DC
- T958-13-AC/-BC/-CC/-DC
- T958-20-AB/-AC/-BB/-BC/-CB/-CC/-DB/-DC
- T958-21/-22-AB/-AC/-AX/-BB/-BC/-BX/-CB/-CC/-CX/-DB/-DC/-DX
- T958-23-AB/-AC/-BB/-BC/-CB/-CC/-DB/-DC
- T958-25-AF T958-71/72-AB
- T958-73/-75/-76/-78/-80/-81-AA/-AB/-AC/-BA/-BB/-BC/-CA/-CB/-CC/-DA/-DB/-DC
- T958-90/-91/-92/-93-AB/-AC/-BB/-BC/-CB/-CC/-DB/-DC

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.

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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. 2PB390

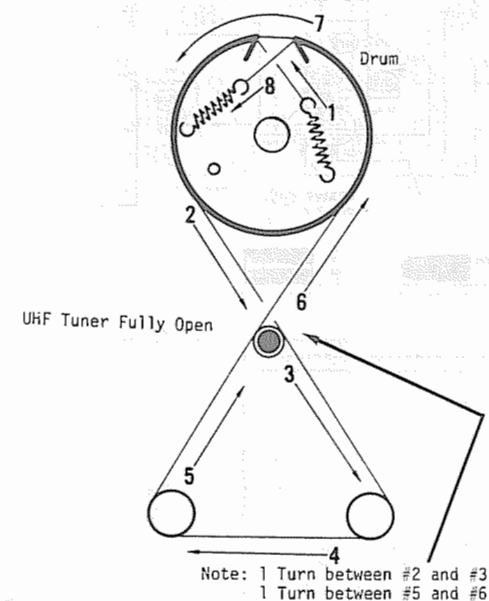
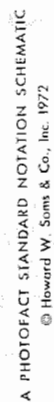
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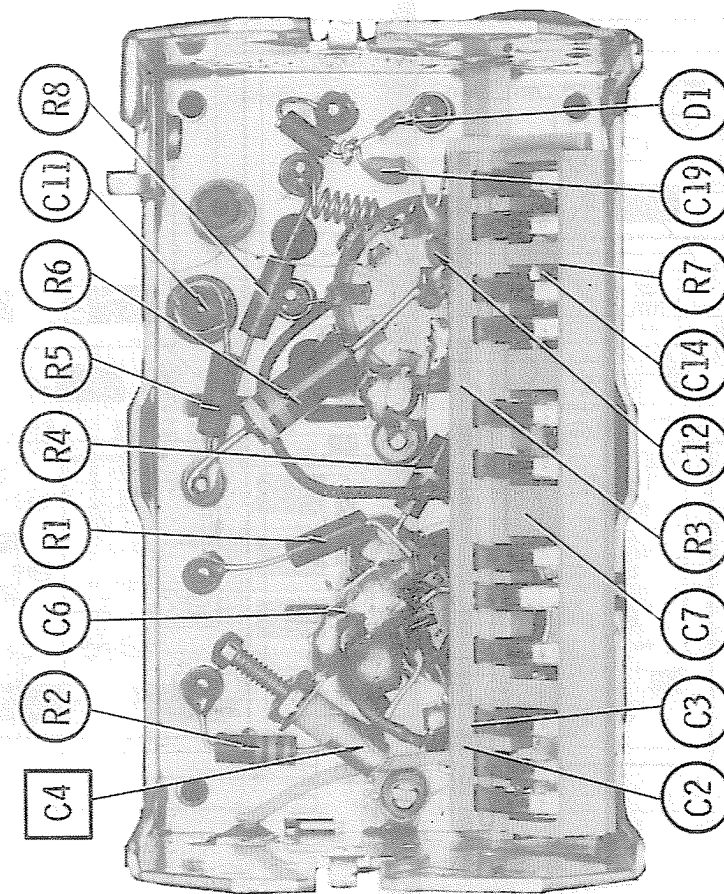
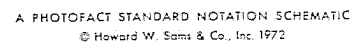
DATE 10-72

SET 1273 FOLDER 2

MAGNAVOX
CHASSIS T958 SERIES

SET 1273 FOLDER 2





Tuner IF Output Coil GC ELECTRONICS: 9296, 9297, 9300

The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound.

Connect the sweep generator across antenna terminals with 120-ohm carbon resistor in each lead. Refer to chart below for generator frequencies. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the scope for horizontal deflection. Use 10MC sweep unless otherwise noted. Connect a variable bias to the RF AGC line at Point T. Adjust bias to obtain response curve showing no overload.



CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point  , low side to ground.	Adjust C8, C9 and expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
10	Across video detector load resistor.	Increase bias to 20 volts. Adjust C4 for MINIMUM amplitude of response.
12 thru 2	Vertical input to Point  , low side to ground.	Decrease bias. Check all channels and make compromise adjustments by expanding or compressing appropriate coils if necessary.

FIG. 201

GENERATOR FREQUENCY					
Numbers in () indicate channel number					
SWEEP	MARKER	SWEEP	MARKER	SWEEP	MARKER
(2) 57MC	55.25MC 59.75MC	(6) 85MC	83.25MC 87.75MC	(10) 195MC	193.25MC 197.75MC
(3) 63MC	61.25MC 65.75MC	(7) 177MC	175.25MC 179.75MC	(11) 201MC	199.25MC 203.75MC
(4) 69MC	67.25MC 71.75MC	(8) 183MC	181.25MC 185.75MC	(12) 207MC	205.25MC 209.75MC
(5) 79MC	77.25MC 81.75MC	(9) 189MC	187.25MC 191.75MC	(13) 213MC	211.25MC 215.75MC

Select a UHF station. Adjust UHF IF input coil for best picture and sound.

VHF TUNER PARTS LIST AND DESCRIPTION

ITEM No.	USE	GENERAL ELECTRIC		RCA	
		TYPE	TYPE	No.	USE
V1	RF Amp	6HQ5		V2	Mixer - Oscillator
SYLVANIA					
		AMPEREX			

SEMICONDUCTORS

ITEM No.	TYPE / MFG.	GENERAL ELECTRIC	INTERNATIONAL	RECTOR	MALLOY	PART No.	SPRAGUE	SYLVANIA	MOTOROLA
D1	171088-1 (B)								
REPLACEMENT DATA									

CAPACITORS

ITEM No.	RATING	REMARKS	ARCO/ELMENCO	CENTRALAB	CORNELL	MALLOY	SPRAGUE
C1	27		CCTO-270		NP027	CN027	CN027
C2	15		CCTO-150		NP015	CN015	CN015
C3	27		CCTO-270		NP027	CN027	CN027
C4	30				NP015	CN015	CN015
C5	10TCC-Q15						10TCC-Q15
C6	10TCC-V15						10TCC-V15
C7	10TCC-V15						10TCC-V15
C8	10TCC-V15						10TCC-V15
C9	10TCC-V15						10TCC-V15
C10	10TCC-V15						10TCC-V15
C11	10TCC-V15						10TCC-V15
C12	10TCC-V15						10TCC-V15
C13	10TCC-V15						10TCC-V15
C14	10TCC-V15						10TCC-V15
C15	10TCC-V15						10TCC-V15
C16	10TCC-V15						10TCC-V15
C17	10TCC-V15						10TCC-V15
C18	10TCC-V15						10TCC-V15
C19	10TCC-V15						10TCC-V15
C20	10TCC-V15						10TCC-V15
C21	10TCC-V15						10TCC-V15
C22	10TCC-V15						10TCC-V15
C23	10TCC-V15						10TCC-V15
C24	10TCC-V15						10TCC-V15
C25	10TCC-V15						10TCC-V15
C26	10TCC-V15						10TCC-V15

TUBES

VHF TUNER PARTS LIST AND DESCRIPTION

ITEM No.	USE	GENERAL ELECTRIC	INTERNATIONAL	RECTOR	MALLOY	PART No.	SPRAGUE	SYLVANIA	MOTOROLA
D1	171088-1 (B)								
REPLACEMENT DATA									

MISCELLANEOUS

ITEM No.	USE	MFG.	PART No.	NOTES
L1	Ant., RF, OSC., Mixer	170964-1		
L2	Ant., RF, OSC., Mixer	170865-2		
L3	Ant., RF, OSC., Mixer	170865-3		
L4	Ant., RF, OSC., Mixer	170865-4		
L5	Ant., RF, OSC., Mixer	170865-5		
L6	Ant., RF, OSC., Mixer	170865-6		
L7	Ant., RF, OSC., Mixer	170865-7		
L8	Ant., RF, OSC., Mixer	170865-8		
L9	Ant., RF, OSC., Mixer	170865-9		
L10	Ant., RF, OSC., Mixer	170865-10		
L11	Ant., RF, OSC., Mixer	170865-11		
L12	Ant., RF, OSC., Mixer	170865-12		
L13	Ant., RF, OSC., Mixer	170865-13		
L14	Tuner IF Output	314-648-001		
NOTES				

COILS (RF-IF)

ITEM No.	USE	MFG.	PART No.	NOTES
C1	27		CCTO-270	
C2	15		CCTO-150	
C3	27		CCTO-270	
C4	30			
C5	10TCC-Q15			
C6	10TCC-V15			
C7	10TCC-V15			
C8	10TCC-V15			
C9	10TCC-V15			
C10	10TCC-V15			
C11	10TCC-V15			
C12	10TCC-V15			
C13	10TCC-V15			
C14	10TCC-V15			
C15	10TCC-V15			
C16	10TCC-V15			
C17	10TCC-V15			
C18	10TCC-V15			
C19	10TCC-V15			
C20	10TCC-V15			
C21	10TCC-V15			
C22	10TCC-V15			
C23	10TCC-V15			
C24	10TCC-V15			
C25	10TCC-V15			
C26	10TCC-V15			

CAPACITORS

ITEM No.	TYPE / MFG.	GENERAL ELECTRIC	INTERNATIONAL	RECTOR	MALLOY	PART No.	SPRAGUE	SYLVANIA	MOTOROLA
D1	171088-1 (B)								
REPLACEMENT DATA									

CAPACITORS

ITEM No.	RATING	REMARKS	ARCO/ELMENCO	CENTRALAB	CORNELL	MALLOY	SPRAGUE
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C2	15		CCTO-150		NP015	CN015	CN015
C3	27		CCTO-270		NP027	CN027	CN027
C4	30				NP015	CN015	CN015
C5	10TCC-Q15						10TCC-Q15
C6	10TCC-V15						10TCC-V15
C7	10TCC-V15						10TCC-V15
C8	10TCC-V15						10TCC-V15
C9	10TCC-V15						10TCC-V15
C10	10TCC-V15						10TCC-V15
C11	10TCC-V15						10TCC-V15
C12	10TCC-V15						10TCC-V15
C13	10TCC-V15						10TCC-V15
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C15	10TCC-V15						10TCC-V15
C16	10TCC-V15						10TCC-V15
C17	10TCC-V15						10TCC-V15
C18	10TCC-V15						10TCC-V15
C19	10TCC-V15						10TCC-V15
C20	10TCC-V15						10TCC-V15
C21	10TCC-V15						10TCC-V15
C22	10TCC-V15						10TCC-V15
C23	10TCC-V15						10TCC-V15
C24	10TCC-V15						10TCC-V15
C25	10TCC-V15						10TCC-V15
C26	10TCC-V15						10TCC-V15

CAPACITORS

ITEM No.	TYPE / MFG.	GENERAL ELECTRIC	INTERNATIONAL	RECTOR	MALLOY	PART No.	SPRAGUE	SYLVANIA	MOTOROLA
D1	171088-1 (B)								
REPLACEMENT DATA									

SEMICONDUCTORS

ITEM No.	USE	MFG.	PART No.	NOTES
L1	Ant., RF, OSC., Mixer	170964-1		
L2	Ant., RF, OSC., Mixer	170865-2		
L3	Ant., RF, OSC., Mixer	170865-3		
L4	Ant., RF, OSC., Mixer	170865-4		
L5	Ant., RF, OSC., Mixer	170865-5		
L6	Ant., RF, OSC., Mixer	170865-6		
L7	Ant., RF, OSC., Mixer	170865-7		
L8	Ant., RF, OSC., Mixer	170865-8		
L9	Ant., RF, OSC., Mixer	170865-9		
L10	Ant., RF, OSC., Mixer	170865-10		
L11	Ant., RF, OSC., Mixer	170865-11		
L12	Ant., RF, OSC., Mixer	170865-12		
L13	Ant., RF, OSC., Mixer	170865-13		
L14	Tuner IF Output	314-648-001		
NOTES				

MISCELLANEOUS

ITEM No.	USE	MFG.	PART No.	NOTES
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L2	Ant., RF, OSC., Mixer	170865-2		
L3	Ant., RF, OSC., Mixer	170865-3		
L4	Ant., RF, OSC., Mixer	170865-4		
L5	Ant., RF, OSC., Mixer	170865-5		
L6	Ant., RF, OSC., Mixer	170865-6		
L7	Ant., RF, OSC., Mixer	170865-7		
L8	Ant., RF, OSC., Mixer	170865-8		
L9	Ant., RF, OSC., Mixer	170865-9		
L10	Ant., RF, OSC., Mixer	170865-10		
L11	Ant., RF, OSC., Mixer	170865-11		
L12	Ant., RF, OSC., Mixer	170865-12		
L13	Ant., RF, OSC., Mixer	170865-13		
L14	Tuner IF Output	314-648-001		
NOTES				

VHF TUNER PARTS LIST AND DESCRIPTION

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L2	Ant., RF, OSC., Mixer	170865-2		
L3	Ant., RF, OSC., Mixer	170865-3		
L4	Ant., RF, OSC., Mixer	170865-4		
L5	Ant., RF, OSC., Mixer	170865-5		
L6	Ant., RF, OSC., Mixer	170865-6		
L7	Ant., RF, OSC., Mixer	170865-7		
L8	Ant., RF, OSC., Mixer	170865-8		
L9	Ant., RF, OSC., Mixer	170865-9		
L10	Ant., RF, OSC., Mixer	170865-10		
L11	Ant., RF, OSC., Mixer	170865-11		
L12	Ant., RF, OSC., Mixer	170865-12		
L13	Ant., RF, OSC., Mixer	170865-13		
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L4	Ant., RF, OSC., Mixer	170865-4		
L5	Ant., RF, OSC., Mixer	170865-5		
L6	Ant., RF, OSC., Mixer	170865-6		
L7	Ant., RF, OSC., Mixer	170865-7		
L8	Ant., RF, OSC., Mixer	170865-8		
L9	Ant., RF, OSC., Mixer	170865-9		
L10	Ant., RF, OSC., Mixer	170865-10		
L11	Ant., RF, OSC., Mixer	170865-11		
L12	Ant., RF, OSC., Mixer	170865-12		
L13	Ant., RF, OSC., Mixer	170865-13		
L14	Tuner IF Output	314-648-001		
NOTES				

COILS (RF-IF)

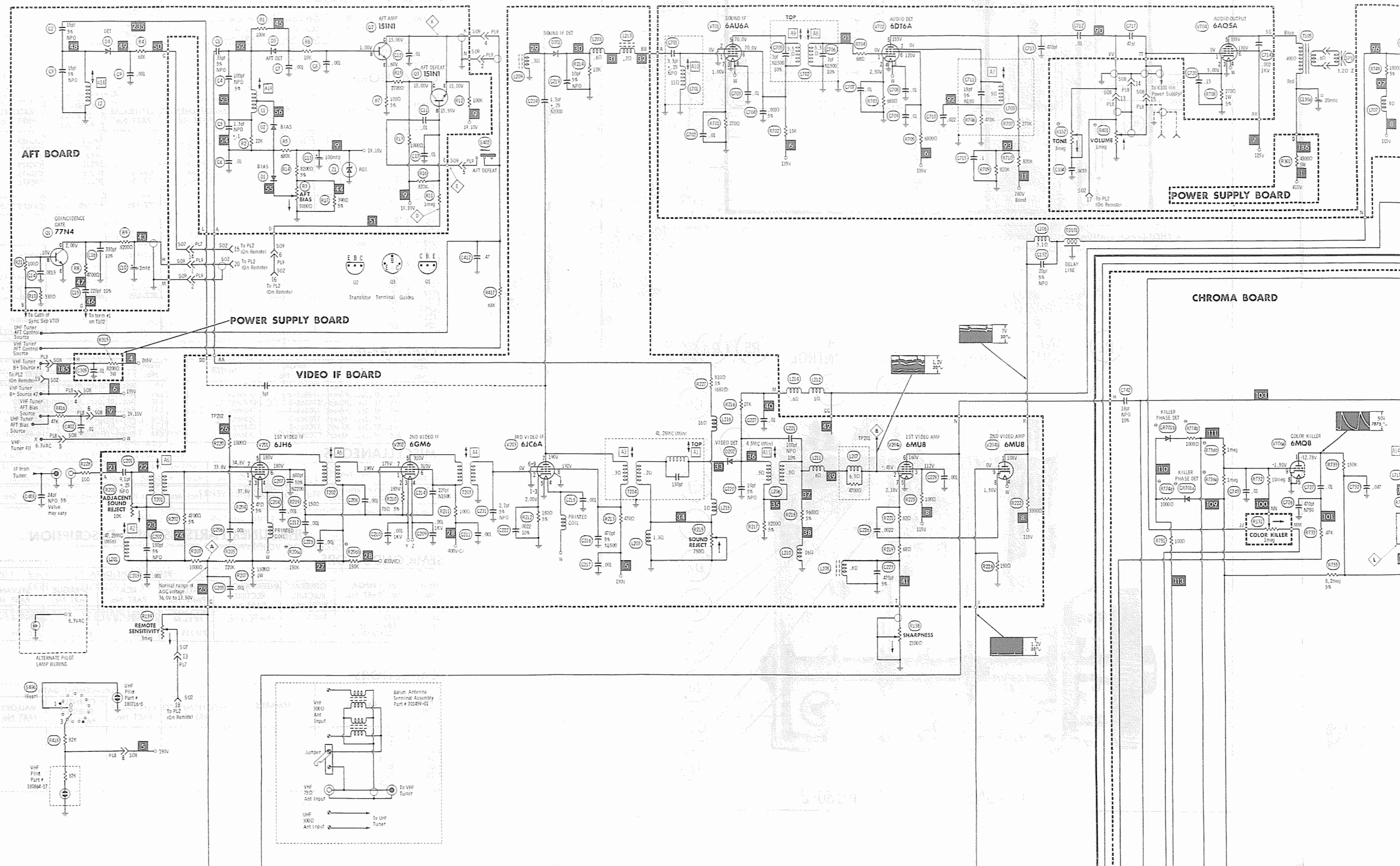
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L3	Ant., RF, OSC., Mixer	170865-3		
L4	Ant., RF, OSC., Mixer	170865-4		
L5	Ant., RF, OSC., Mixer	170865-5		
L6	Ant., RF, OSC., Mixer	170865-6		
L7	Ant., RF, OSC., Mixer	170865-7		
L8	Ant., RF, OSC., Mixer	170865-8		
L9	Ant., RF, OSC., Mixer	170865-9		
L10	Ant., RF, OSC., Mixer	170865-10		
L11	Ant., RF, OSC., Mixer	170865-11		
L12	Ant., RF, OSC., Mixer	170865-12		
L13	Ant., RF, OSC., Mixer	170865-13		
L14	Tuner IF Output	314-648-001		
NOTES				

CAPACITORS

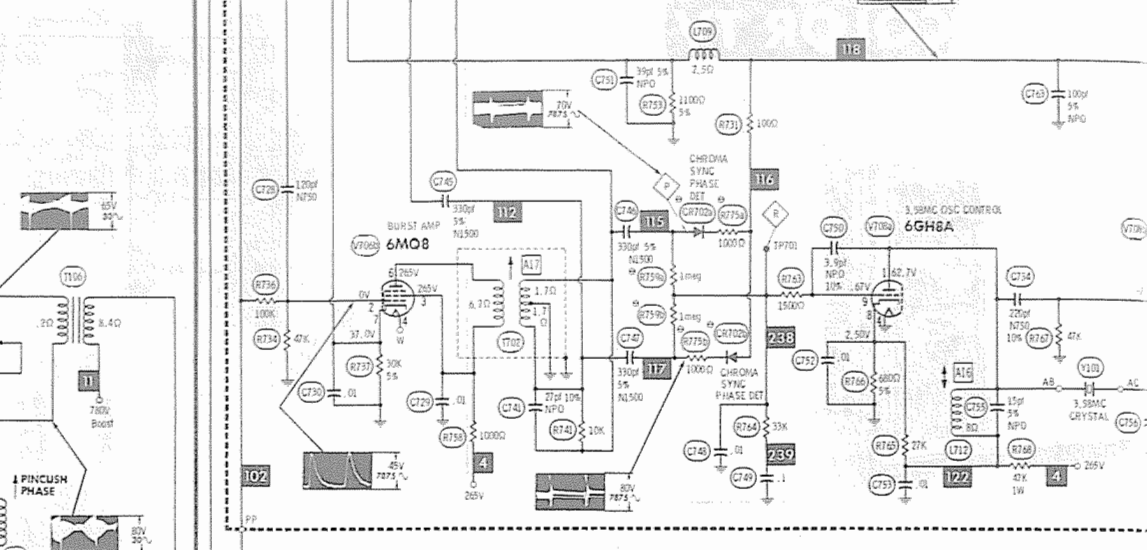
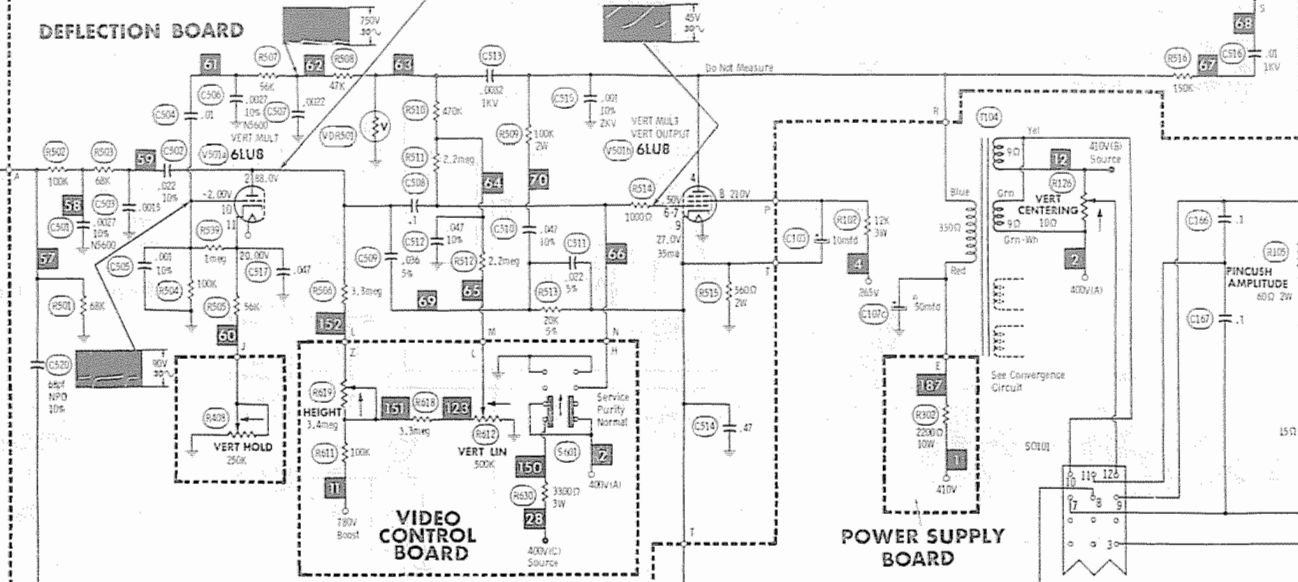
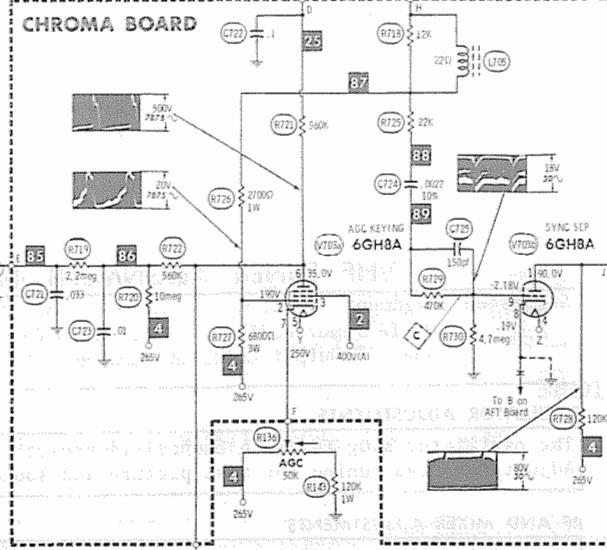
ITEM No.	TYPE / MFG.	GENERAL ELECTRIC	INTERNATIONAL	RECTOR	MALLOY	PART No.	SPRAGUE	SYLVANIA	MOTOROLA
D1	171088-1 (B)								
REPLACEMENT DATA									

CAPACITORS

ITEM No.	RATING	REMARKS	ARCO/ELMENCO	CENTRALAB	CORNELL	MALLOY	SPRAGUE
C1	27		CCTO-270		NP027	CN027	CN027
C2	15		CCTO-150		NP015	CN015	CN015
C3	27		CCTO-270		NP027	CN027	CN027
C4	30				NP015	CN015	CN015
C5	10TCC-Q15						10TCC-Q15
C6	10TCC-V15						10TCC-V15
C7	10TCC-V15						10TCC-V15
C8	10TCC-V15						10TCC-V15
C9	10TCC-V15						10TCC-V15
C10	10TCC-V15						10TCC-V15
C11	10TCC-V15						10TCC-V15
C12	10TCC-V15						10TCC-V15
C13	10TCC-V15						10TCC-V15
C14	10TCC-V15						10TCC-V15
C15	10TCC-V15						10TCC-V15
C16	10TCC-V15						10TCC-V15
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C20	10TCC-V15						10TCC-V15
C21	10TCC-V15						10TCC-V15
C22	10TCC-V15						10TCC-V15
C23	10TCC-V15						10TCC-V15
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C25	10TCC-V15						10TCC-V15
C26	10TCC-V15						10TCC-V15

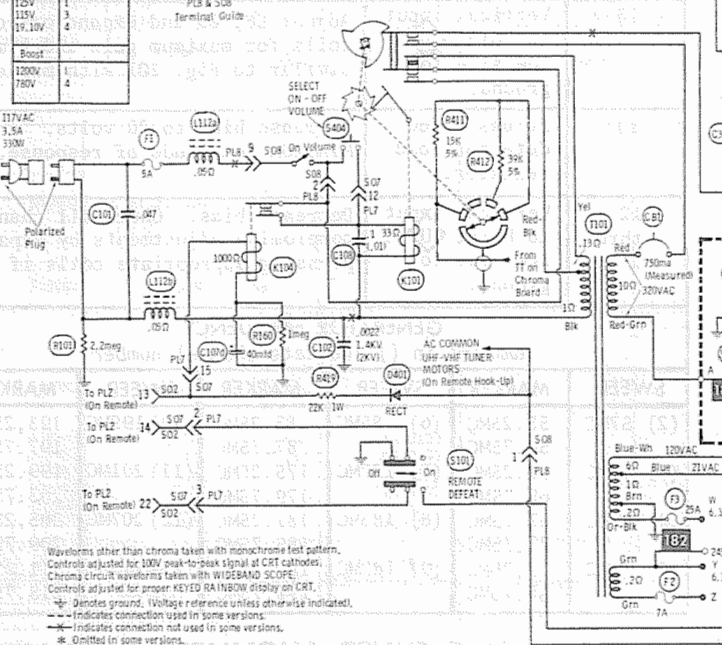






8-DISTRIBUTION

Source	Connections
410V	1, 11, 12
400V(1)	3
400V(1)	3
380V	2
280V	12
240V	2
190V	2
130V	1
115V	3
19, 10V	4
Boost	
1200V	1
780V	1



Waveforms other than chroma taken with monochrome test pattern. Controls adjusted for 100V peak-to-peak signal at CRT cathodes. Chroma circuit waveforms taken with WIDE-BAND SCOPE. Controls adjusted for proper KEYED RAINBOW display on CRT.

⊕ Denotes ground. Voltage reference unless otherwise indicated.

— Indicates connection used in some versions.

— Indicates connection not used in some versions.

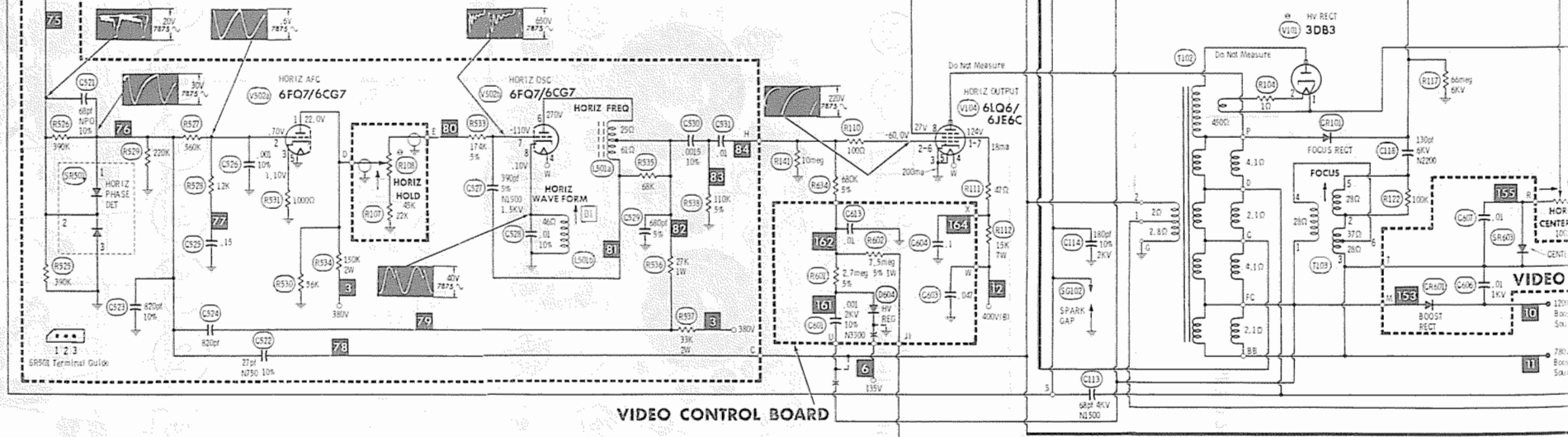
* Omitted in some versions.

⊙ See parts list.

Values shown in 1% are used in some applications. Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated. Supply voltage maintained at rated value for measurements. Voltage and resistance measured with VTVM or equivalent meter. No signal applied and controls adjusted for normal operation. Arrows on control indicates direction of adjustment. Numbers assigned to terminals may not be found on the unit.

A PHOTOFACT STANDARD NOTATION SCHEMATIC

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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 R814	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 R811	Red and Green Vertical bars at bottom of screen.	
4.	R-G Horizontal Lines, Top R813	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 R812	Red and Green Horizontal bars at bottom of screen.	
6.	Blue Horizontal Lines, Top R815	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 R808	Blue Horizontal bars at bottom of screen.	
8.	Center Horizontal Blue Lines L803 (Blue Center)	Blue Horizontal lines at center of screen.	Adjust for slight upward movement (1/8") approximately. It may be necessary to go through the entire range of the coil to find the correct setting.
9.			Perform Center Dot Static Convergence(Fig.A).
10.	Blue Horizontal Lines, Right L805	Blue Horizontal bars at right side of screen.	Touch up both controls for best convergence along horizontal center line (Fig. D).
11.	Blue Horizontal Lines, Left L804	Blue Horizontal bars at left side of screen.	
12.	R-G Vertical Lines, Right L801	Red and Green Vertical bars at right side of screen.	(Fig. E)
13.	R-G Horizontal Lines, Right L802	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).
14.	R-G Vertical Lines, Left R804	Red and Green Vertical bars at left side of screen.	(Fig. E)
15.	R-G Horizontal Lines, Left R805	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).

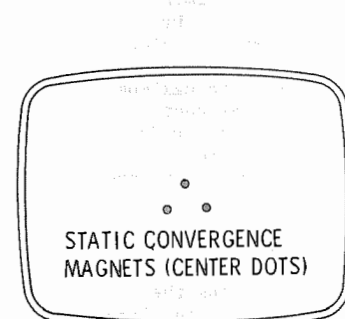


FIG. A

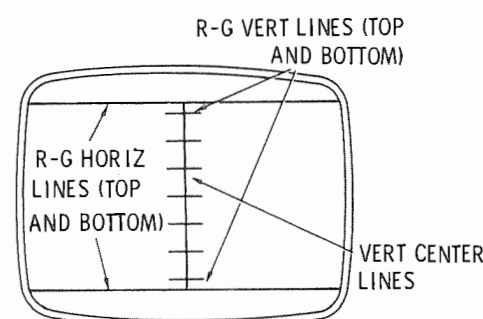


FIG. B
(RED AND GREEN ONLY)

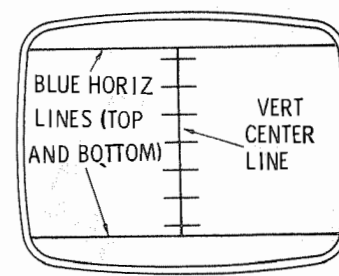


FIG. C
(BLUE BARS)

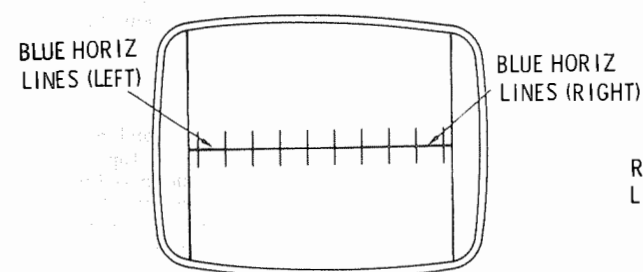


FIG. D
(BLUE BARS)

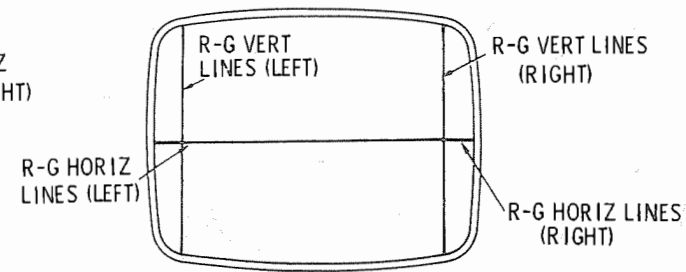
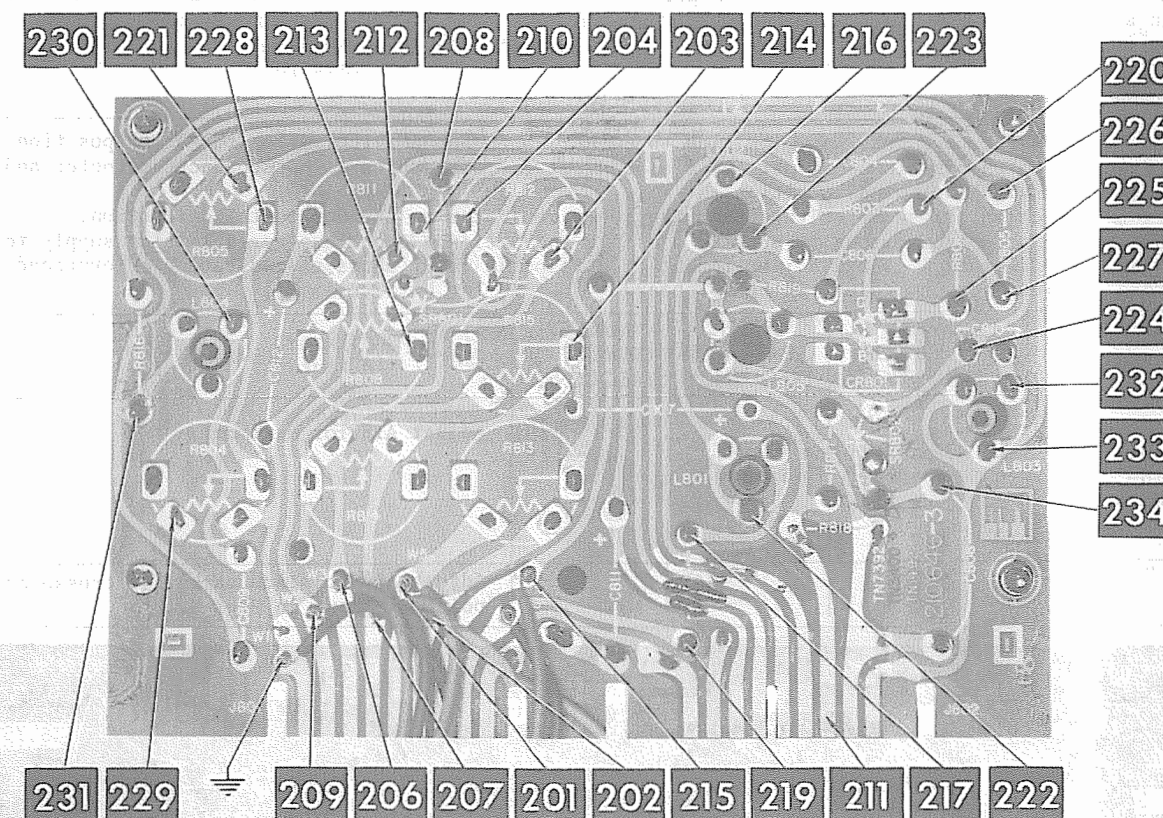
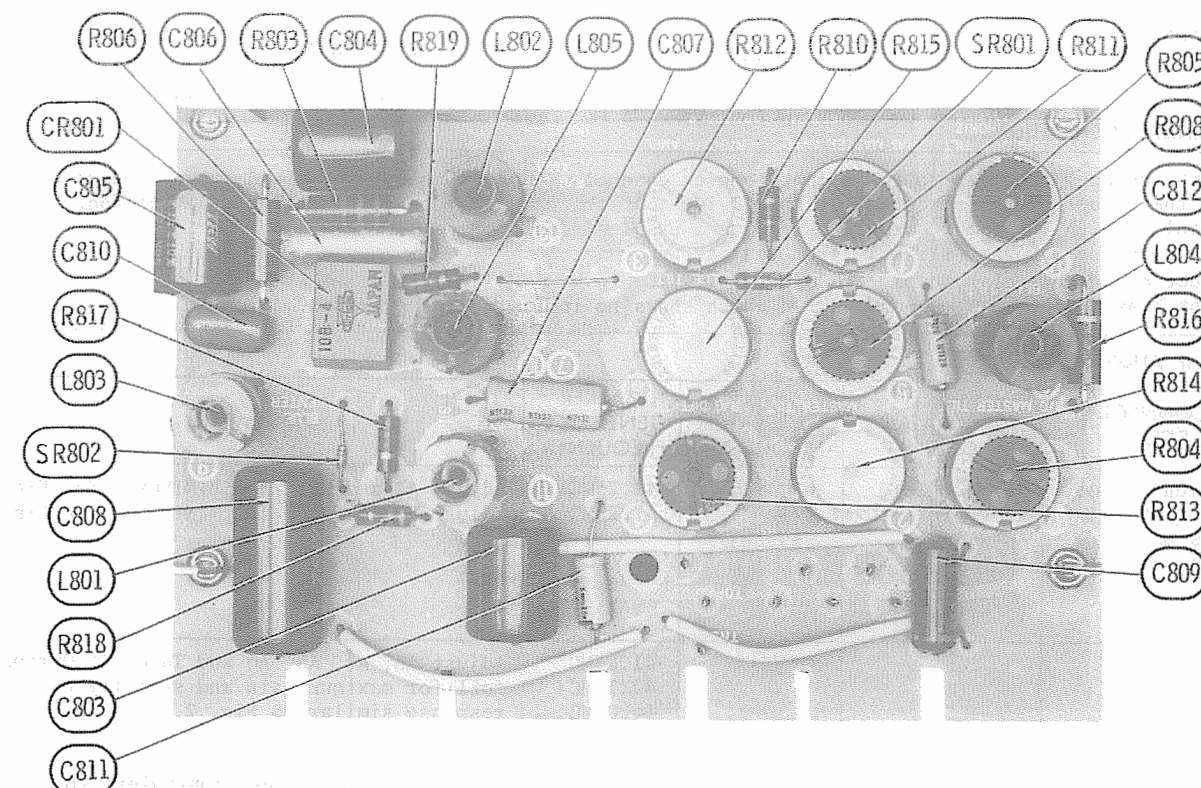


FIG. E



CONVERGENCE BOARD

MAGNAVOX
CHASSIS T958 SERIES

FOLDER 2

TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain line voltage at 117VAC. Allow a 20-minute warm-up period for receiver and test equipment.
Suggested Alignment Tools: GC ELECTRONICS
A1 thru A19 8606, 8606L, 8869
A20, Tuner IF Output Coil 9296, 9297, 9300

PRELIMINARY INSTRUCTIONS

Set the channel selector to the highest unused channel. 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 that shown.
Connect a variable bias supply to Point A.
Adjust bias to obtain a response curve which shows

VIDEO IF ALIGNMENT

CONNECT SCOPE	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY
Vertical input to Point B, low side to ground.	Thru .001mfd to Point U on VHF tuner, low side to ground.	44MC (10MC Sweep)
"	"	"

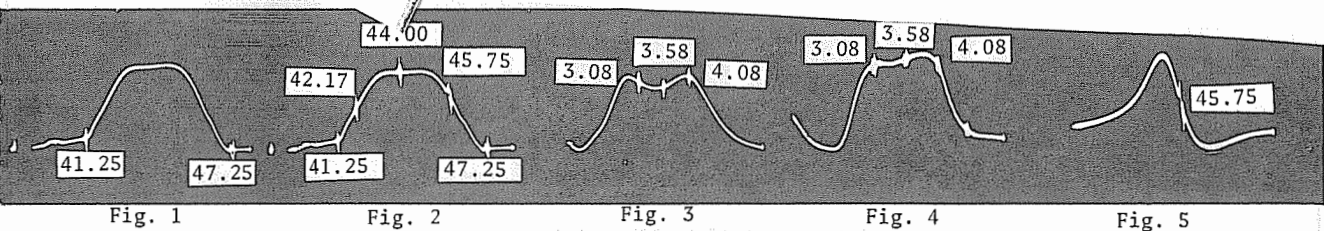
4.5MC TRAP ALIGNMENT

Tune in a strong TV signal and set pattern is visible on the screen.

AFT ALIGNMENT

Connect DC voltmeter to Point I.
Set AFT switch to On position.
Return service switch to Normal.
Connect the synchronized sweep.
Use only enough generator output the IF AGC line (Point A).
On remote versions, ground Point

CONNECT SCOPE	SWEEP GENERATOR COUPLING
Vertical input to Point K, low side to ground.	Thru .001mfd to Point U on VHF tuner, low side to ground.
"	"



MISCELLANEOUS ADJUSTMENTS

NOTE: Automatic Tint control should be in Off position for these adjustments.

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect:
A 0-500 ma meter in series with the cathode lead of horizontal output tube.
A .47mfd capacitor across meter.
A 0-1500 microammeter in series with the cathode lead of the HV regulator tube.
A VTVM through a high-voltage probe to picture-tube anode connector.
Point C to ground.
A short across horizontal oscillator coil (pin 8, V502) 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 C. Adjust the horizontal linearity coil for MINIMUM current in the horizontal output tube. (Current should not exceed 210 ma.)
Adjust the high-voltage control for 24KV on picture tube anode with normal brightness. Check the high-voltage regulator current. The current should not be less than 600 microamperes. If current is less than 600 microamperes, turn horizontal linearity (efficiency) slug one-half turn clockwise. Check to see that horizontal output current does not exceed 210 ma. If foldover occurs in picture, adjust horizontal linearity (efficiency) clockwise to eliminate foldover while checking to make sure horizontal output current does not exceed 210 ma.
Adjust focus, height and vertical linearity controls.

AGC ADJUSTMENT

Set contrast control to maximum clockwise position. Tune in a strong TV station and advance the AGC control until instability appears in the picture (pulling, jitter, overload, etc.). Reduce the control to the point just below the instability and for a small amount of video drive reserve as seen in the contrast level. Set contrast control for normal picture and check all available stations for proper AGC action.

COLOR AFC ALIGNMENT

Suggested Alignment Tools: A15, A16, and A17
GC ELECTRONICS 8606, 8606L, 8869

Set killer threshold control fully counterclockwise. Set tint control to the center of its range. Connect a color bar generator to the antenna terminals. Adjust receiver for normal color reception. Short pin 2 of V706 to ground.
Connect DC probe of VTVM through 470K to point P, low side to ground. Adjust A15 for maximum deflection on VTVM. If no reading is obtained, oscillator is not operating. Adjust A16 to start oscillator, then adjust A15 for maximum. Remove short from point P. Adjust A16 for maximum deflection on VTVM. Make sure the oscillator is running and locked in.
Short point R to ground. Remove VTVM. Adjust A17 until color bars stand still or drift slowly. Remove the short from point R and check to see that the color bars will sync with a low level input signal. If necessary, retouch A17 for best hold.
Connect the vertical input of a scope to point F. Check for proper waveform with the color bar generator being used. See waveform on schematic for pattern obtained from a standard keyed rainbow generator. Check the range of the tint control. The bars should move 30° either side of proper

COLOR AFC ALIGNMENT (CONTINUED)

signal. If necessary, retouch A17 for proper range of control.
Check for proper waveform at G-Y and B-Y outputs: Points G and H. Tune in a weak signal or reduce the signal at the antenna terminals to obtain a snowy picture. Adjust the killer threshold control to eliminate the color in the snow. Check with a color signal to make sure the killer is not eliminating picture coloring.

PURITY ADJUSTMENTS

Perform Step 1 of "Convergence Adjustments". If the picture tube appears to be magnetized, use a degaussing coil to demagnetize tube and mounting brackets.
Connect the blue and green grids of the picture tube through individual 100K resistors to ground. Loosen the deflection yoke and move it rearward until it is against the convergence-yoke assembly. Adjust the tabs on the purity magnet and rotate the assembly until a red spot appears at the center of the picture tube. Slide the deflection yoke forward to obtain a uniform red over entire picture-tube face. A low-power microscope is useful to observe the beam landings.

GRAY SCALE ADJUSTMENTS

Turn red, blue and green drive controls at/or near maximum clockwise position. Tune in a black and white picture or a color picture with the color control set to MINIMUM. Turn brightness and CRT bias controls fully counterclockwise. Slide service switch to 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 control until a barely visible line appears. Then readjust the other two screen controls for a barely visible line. Slide the Service switch to Normal position and the brightness control for normal brightness. Reduce or vary the red, blue and green drive controls to eliminate coloring in light areas of the picture. (Drive controls should be left at or near maximum clockwise position.)
Turn brightness and contrast controls to maximum (fully clockwise). Adjust the CRT bias control until the picture blooms (distorts), then reduce the control to the point just below where the picture returns to normal. Adjust brightness and contrast as desired.

REMOTE CONTROL SENSITIVITY ADJUSTMENT

This adjustment, when properly set, keeps the remote search unit from stopping on unwanted image signals by reducing IF gain while searching. Turn control to mid-mechanical position. Check UHF and VHF for proper lockin of desired known weakest channel. Turn clockwise for increasing sensitivity and counterclockwise for decreasing sensitivity.

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 top and bottom of the screen.
Connect a crosshatch generator to the antenna terminals and adjust the set for a normal crosshatch pattern. Adjust Pincushion Phase coil, L111, for a maximum hump at the center of the top line and then adjust the pincushion amplitude control to straighten the top line.

RESISTANCE MEASUREMENTS

ITEM	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	PIN 13	TOP CAP
V101	PINS 1 THRU 8 HAVE INFINITE RESISTANCE													650Ω †
V102	2000Ω †	FIL	NC	NC	NC	1.5meg	FIL	NC						INF
V103	NC	20Ω †	NC	FIL	FIL	NC	20Ω †	NC	1.2meg					
V104	15K †	1meg	0Ω	FIL	FIL	4meg	15K †	560Ω	NC					3Ω †
V106	FIL	3500Ω	127K †	600K	600K	3500Ω	127K †	NC	68meg	NC	3500Ω	127K	600K	PIN 14 FIL
V201	220K	1500Ω	FIL	FIL	225Ω Δ	225Ω Δ	1500Ω							
VHF V201	3.1meg	0Ω	FIL	FIL	11K †	0Ω	0Ω							
VHF V202	0Ω	220K	0Ω	FIL	FIL	2600Ω †	26K †	8000Ω †	10K					
V202	80K †	1NF	FIL	FIL	3400Ω †	3400Ω †	75Ω Δ							
V203	180Ω	0Ω	180Ω	FIL	FIL	0Ω	2200Ω †	2200Ω †	0Ω					
V204	10K †	360Ω	8500Ω †	FIL	FIL	11K †	150Ω	68Ω	150Ω					
V501	FIL	5meg	NC	2500Ω †	NC	4.8meg	4.8meg	13K †	560Ω	90K	100K	FIL		
V502	25K	850K	1000Ω	FIL	FIL	65K †	240K	46Ω	0Ω					
V701	12Ω	0Ω	FIL	FIL	20K †	20K †	270Ω							
V702	68Ω	680Ω	FIL	FIL	1meg †	9000Ω †	470K							
V703	40K †	7000Ω †	18Ω †	FIL	FIL	750K	22K †	470Ω *	4.7meg					
V704	280K	270Ω	FIL	FIL	4800Ω †	8000Ω †	NC							
V705	190Ω	370K	0Ω	FIL	FIL	FIL	5300Ω †	2500Ω †	0Ω					
V706	1.5meg	47K	2000Ω †	FIL	FIL	2000Ω †	30K	0Ω	2.1meg					
V707	18K †	1.5meg	50K †	FIL	FIL	2700Ω †	398Ω	398Ω	270K					
V708	20K †	47K	48K †	FIL	FIL	7600Ω †	0Ω	680Ω	1.5meg					
V710	0Ω	27K †	11K †	FIL	FIL	.5Ω	4Ω	11K †	2.3Ω					
V712	30K †	30K †	30K †	FIL	FIL	1meg	270Ω	1meg	1meg					
MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS														
ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C	
Q1	0Ω	400Ω	1NF		Q2	900Ω	700K	100K		Q3	100K	500K	1900Ω	
UHF Q1	330Ω	3300Ω	13K											

† MEASURE FROM THE CATHODE OF SR302 AND SR303.

‡ MEASURE FROM PIN 9 OF V103.

NC NO CONNECTION

INF INFINITE

* READING DEPENDS ON POLARITY OF METER CONNECTIONS.

Δ MEASURE FROM 2ND VIDEO IF, PIN 2 OF V202.

TP TIE POINT

FIL FILAMENT

TROUBLESHOOTING CHECK CHART

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

PICTURE or SOUND

No pic, no sound, no raster: Fuses, LV Rects, Damper

No pic, no sound, has raster: Video IFs, Tuner Mixer

No pic, no sound, has snow: Tuner RF, Mixer, Osc.

No pic, has sound, no raster: Video Output, CRT

No pic, has sound, has raster: Video Amps, Output

Has pic, no sound: Sound IF, Audio Amp, Output

Overloaded picture: AGC, Video Det

Low or excessive brightness: Horiz Blanking Amp

Poor focus: Focus Rect

SWEEP

No raster, has sound: Horiz Osc, Output, Damper, HV Rect, CRT

No vert deflection: Vert Mult - Output

Poor vert lin or foldover: Vert Mult - Output

Poor horiz lin or foldover: Horiz Output, Damper

Narrow picture: LV Rects, Horiz Osc, Output, Damper

Vert off frequency: Vert Mult

Horiz off frequency: Horiz Phase Det, AFC, Osc

SYNC

No vert sync: Vert Mult

No horiz sync: Horiz Phase Det, AFC, Osc

No vert/horiz sync: Sync Sep

RASTER

Yellow (no blue): B-Y Amp, CRT

Cyan (no red): R-Y Amp, CRT

Magenta (no green): G-Y Amp, CRT

COLOR (B/W operating normally)

No color: Killer Phase Det, Killer, Burst, Chroma Bandpass

Weak color: Chroma Bandpass

No color sync: Burst, Chroma Sync Phase Det, 3.58MC Osc Control, Osc

No Blue: Z Demod, B-Y Amp

No red: X Demod, B-Y Amp

Incorrect hue (tint): Burst, Killer, Det

Chroma Sync Phase Det, X/Z Demod

TV ALIGNMENT INSTRUCTIONS (Continued)

CHROMA BANDPASS ALIGNMENT

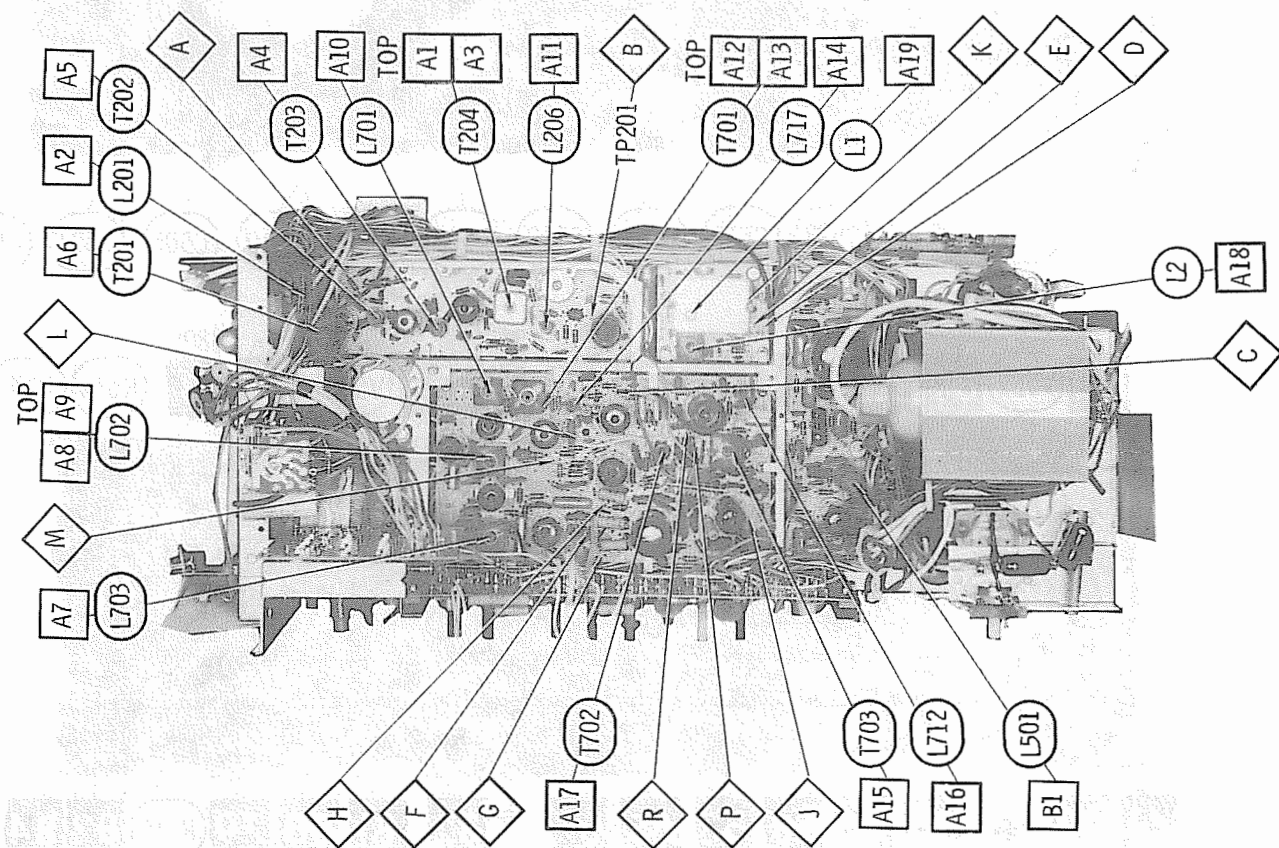
Connect as explained in preliminary instructions. Set color control to maximum, tint control to mid-range, and color killer fully counterclockwise. Connect a -40 volt bias to Point M, a -2 volt bias to Point L and a -15 volt bias to Point T. Connect positive of bias supplies to ground. Remove the horizontal output tube and connect a 1500-ohm, 100-watt resistor from 410V source to ground. Switch Automatic Tint control to Off.

CONNECT SCOPE	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	REMARKS
Vertical input thru detector probe to pin 7 of Demodulator, low side to ground.	Thru .1mfd to grid of Bandpass Amp, V707 low side to ground.	3.58MC (3-5MC Sweep)	3.08MC 3.58MC 4.08MC	Adjust A12 and A13 for response curve similar to Fig. 2. Adjust A11 while watching 4.5MC marker. See Fig. 3.
"	Thru .001mfd to Point U on VHF tuner, low side to ground.	3-6 MC Sweep	3.08MC 3.58MC 4.08MC (4.5MC Trap)	Adjust A14 for response curve similar to Fig. 4. If necessary, retouch A12 to flatten top of response. Adjust Chroma Tilt, R738, for final tilt and to help flatten and activate ATC. Inability to obtain proper bandpass alignment may be due to misadjustment of the 4.5MC trap. Adjust A11 for MINIMUM at 4.5MC.

After completing Chroma Bandpass Alignment, reset color killer. (Refer to Miscellaneous Adjustments.)

SOUND IF ALIGNMENT

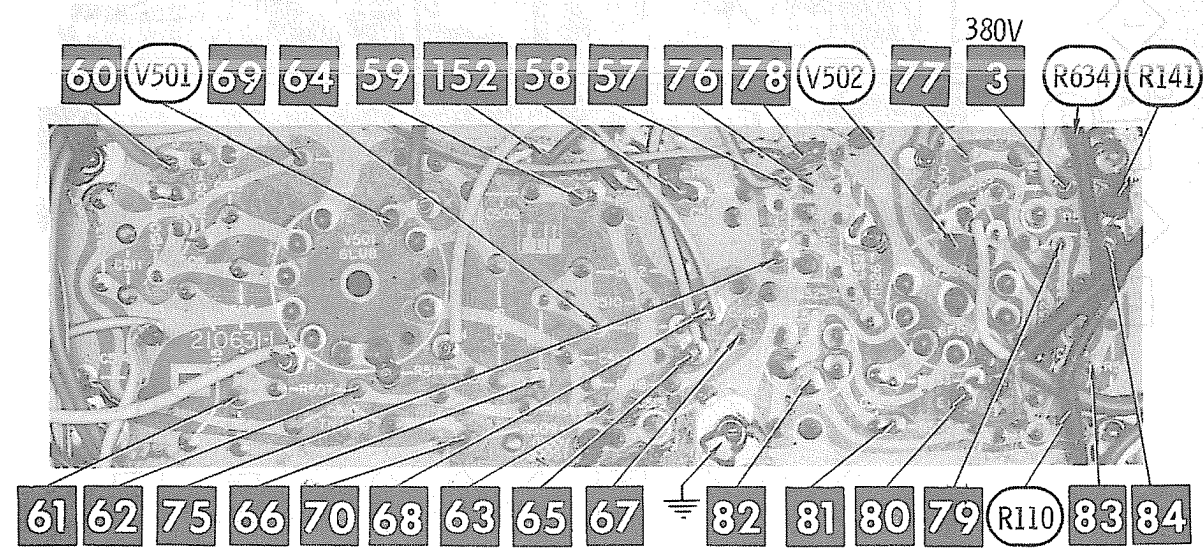
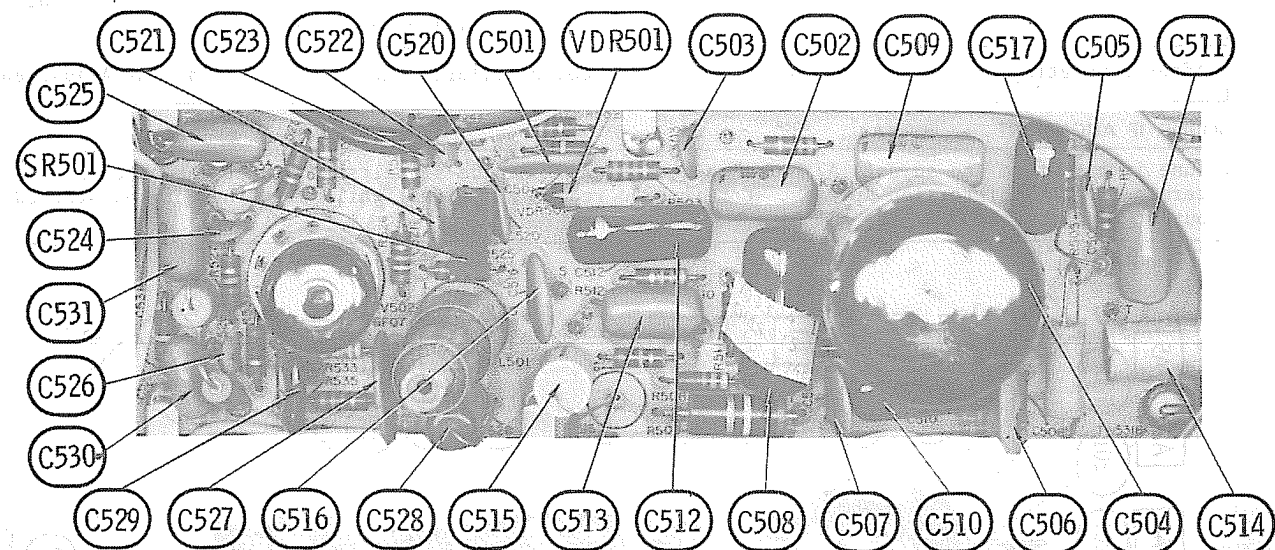
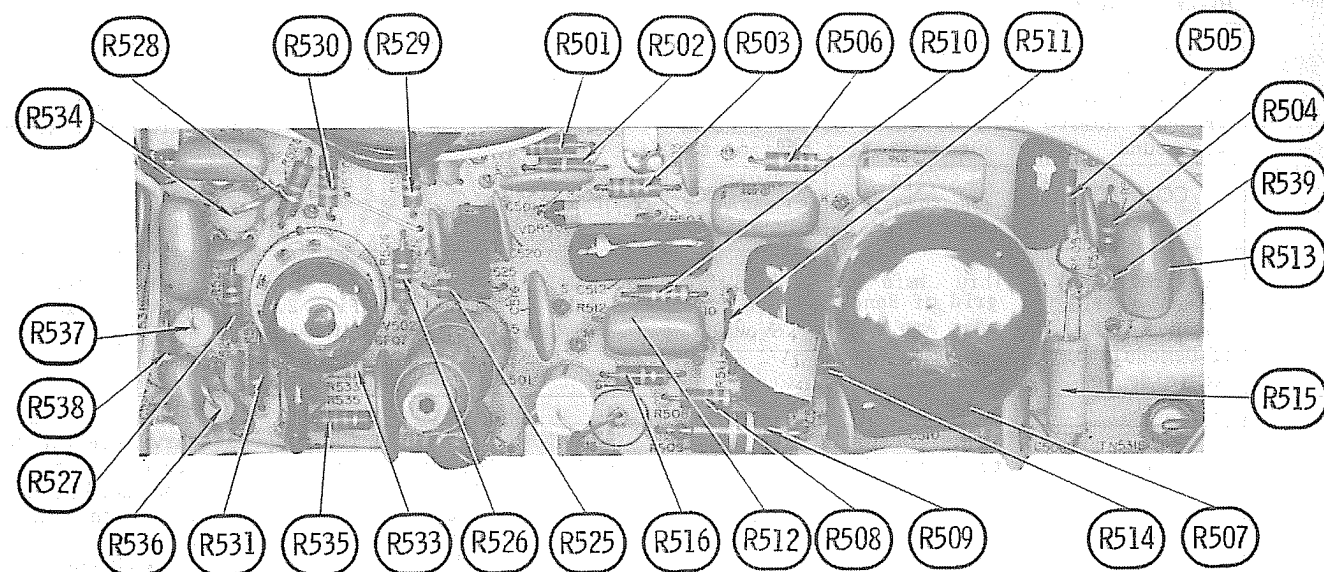
Tune in a station and adjust A7 for maximum sound. Reduce signal strength at the antenna terminals until distortion appears. Continue to reduce the signal while aligning for undistorted output by adjusting A8, A9, and A10.



CHASSIS-TOP VIEW

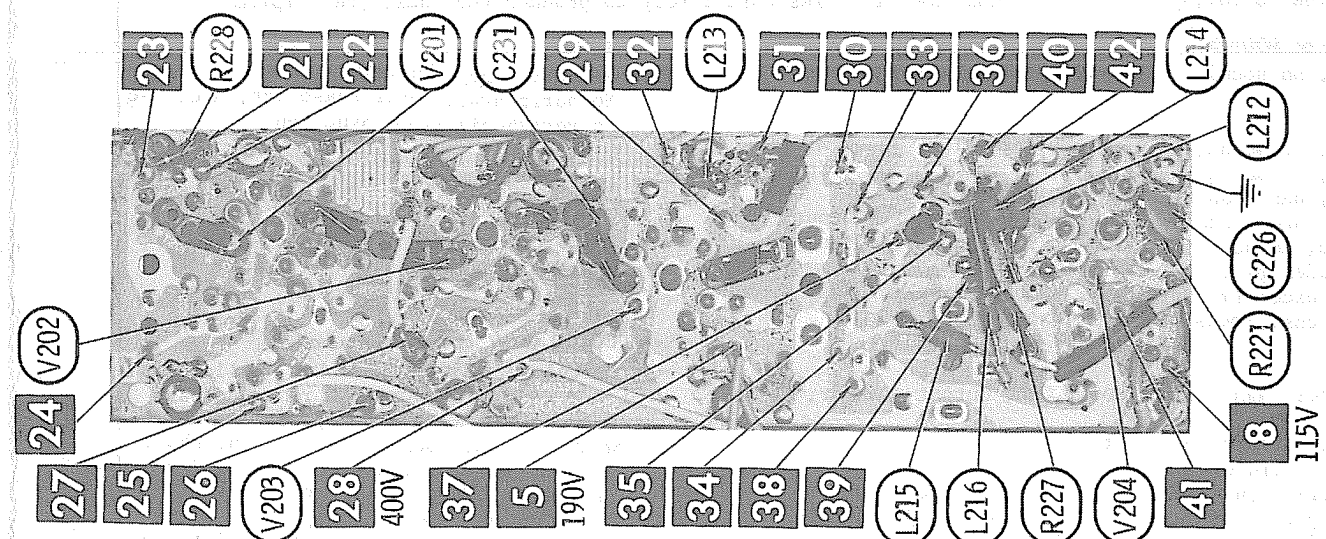
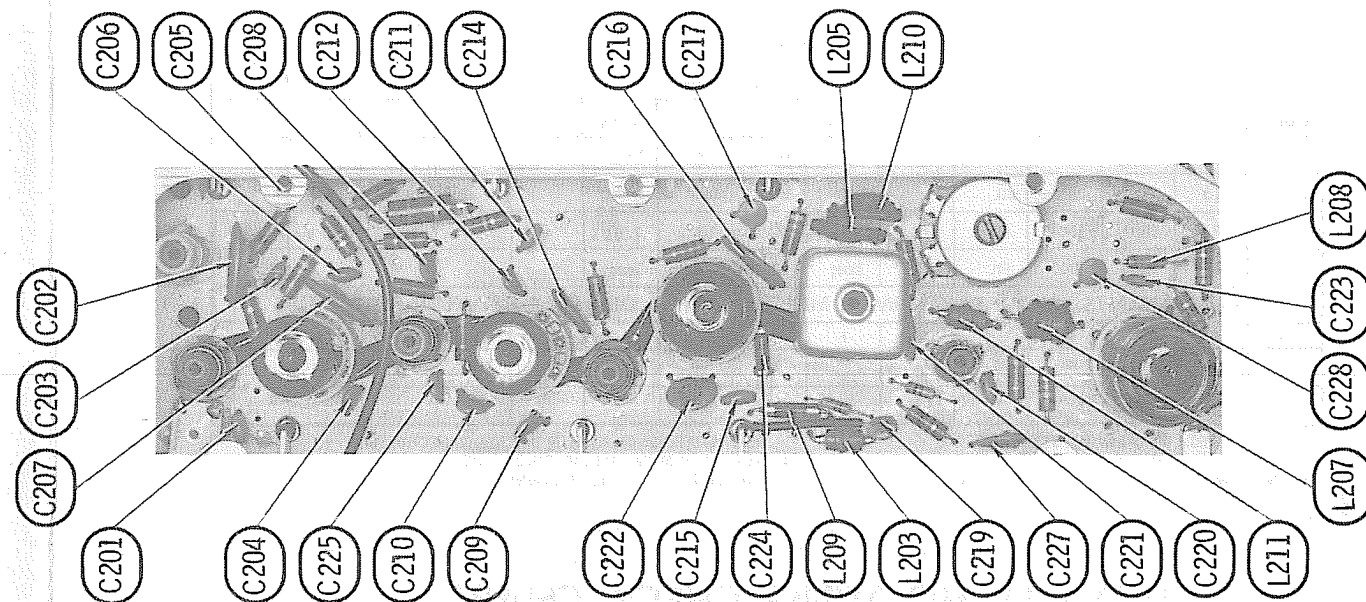
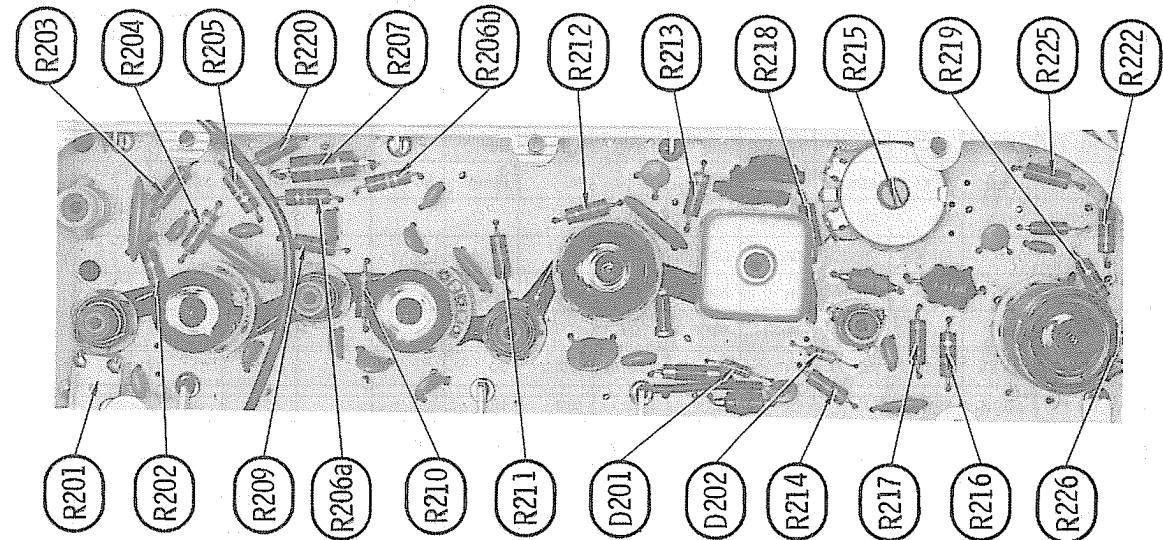
MAGNAVOX
CHASSIS 1958 SERIES

FOLDER 2



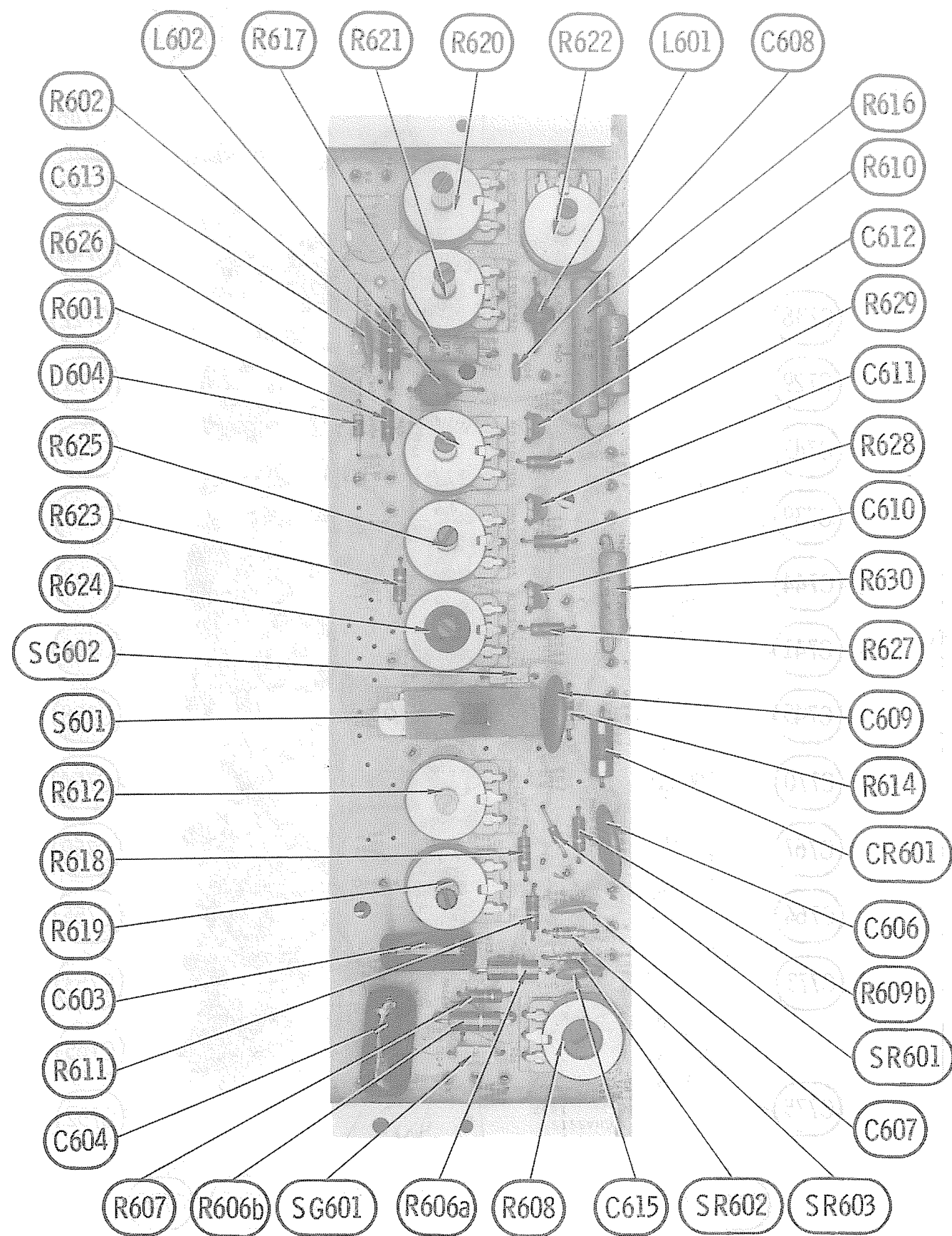
DEFLECTION BOARD

A Howard W. Sams CIRCUITRACE Photo

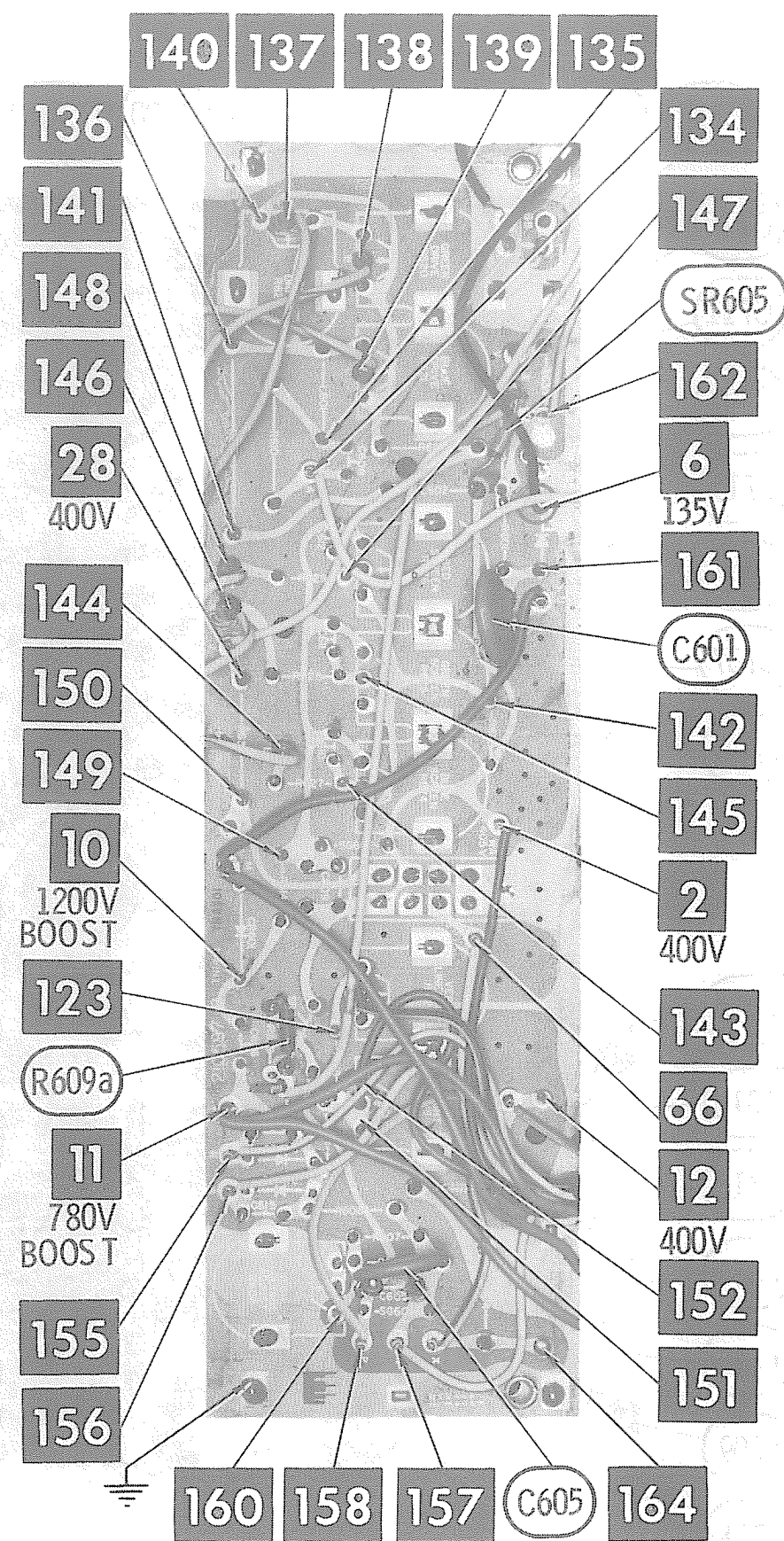


IF BOARD

A Howard W. Sams CIRCUITRACE Photo



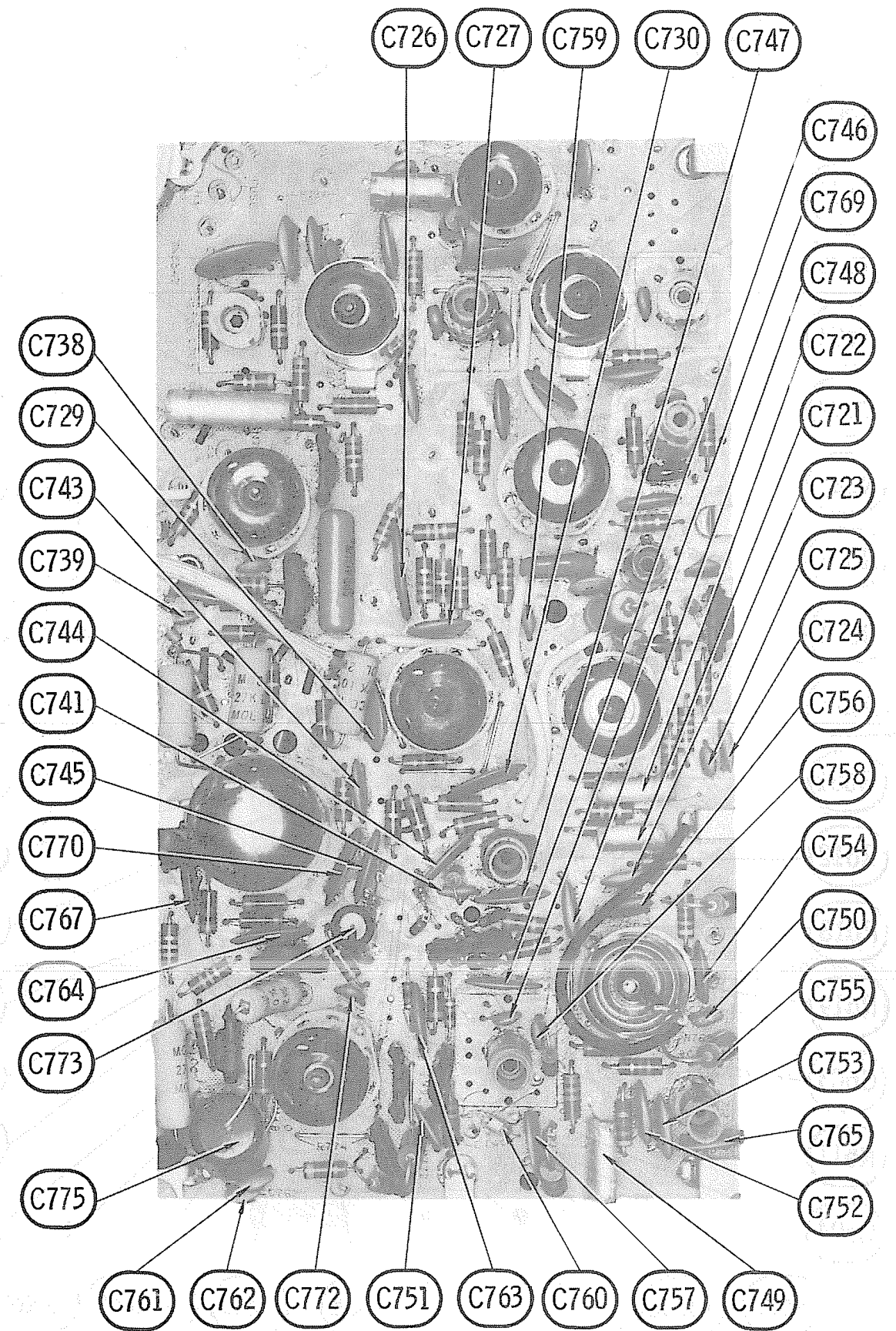
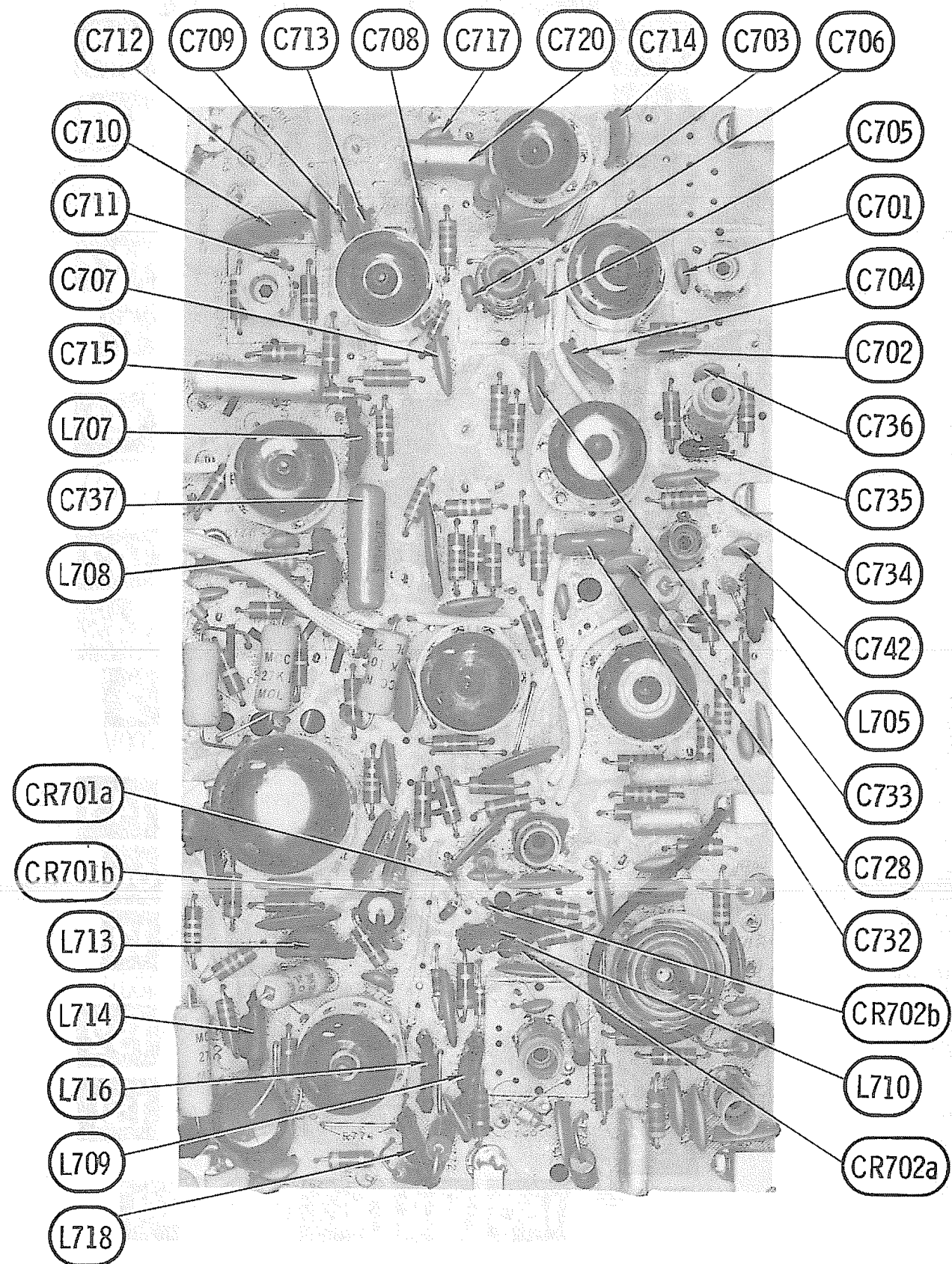
VIDEO CONTROL BOARD



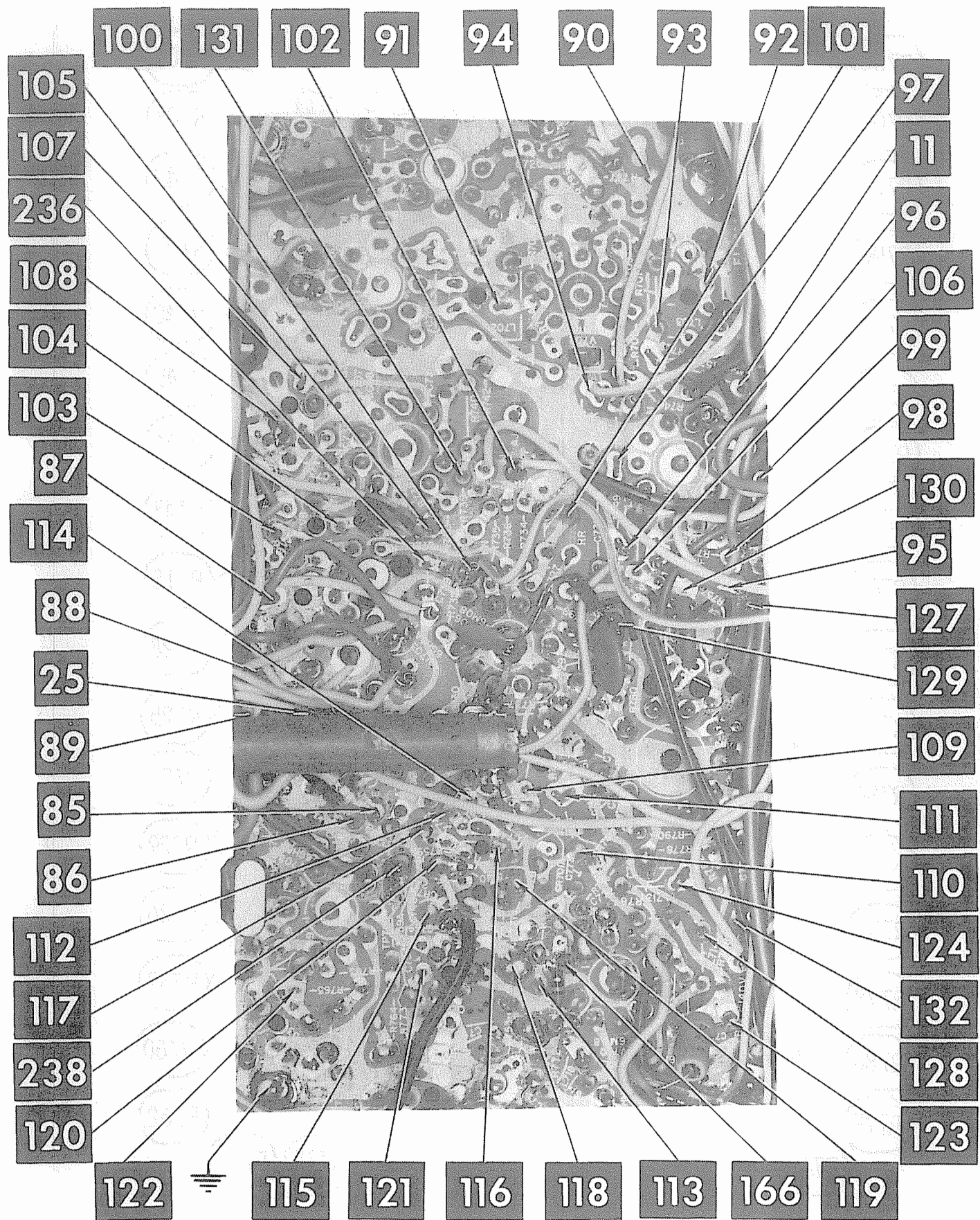
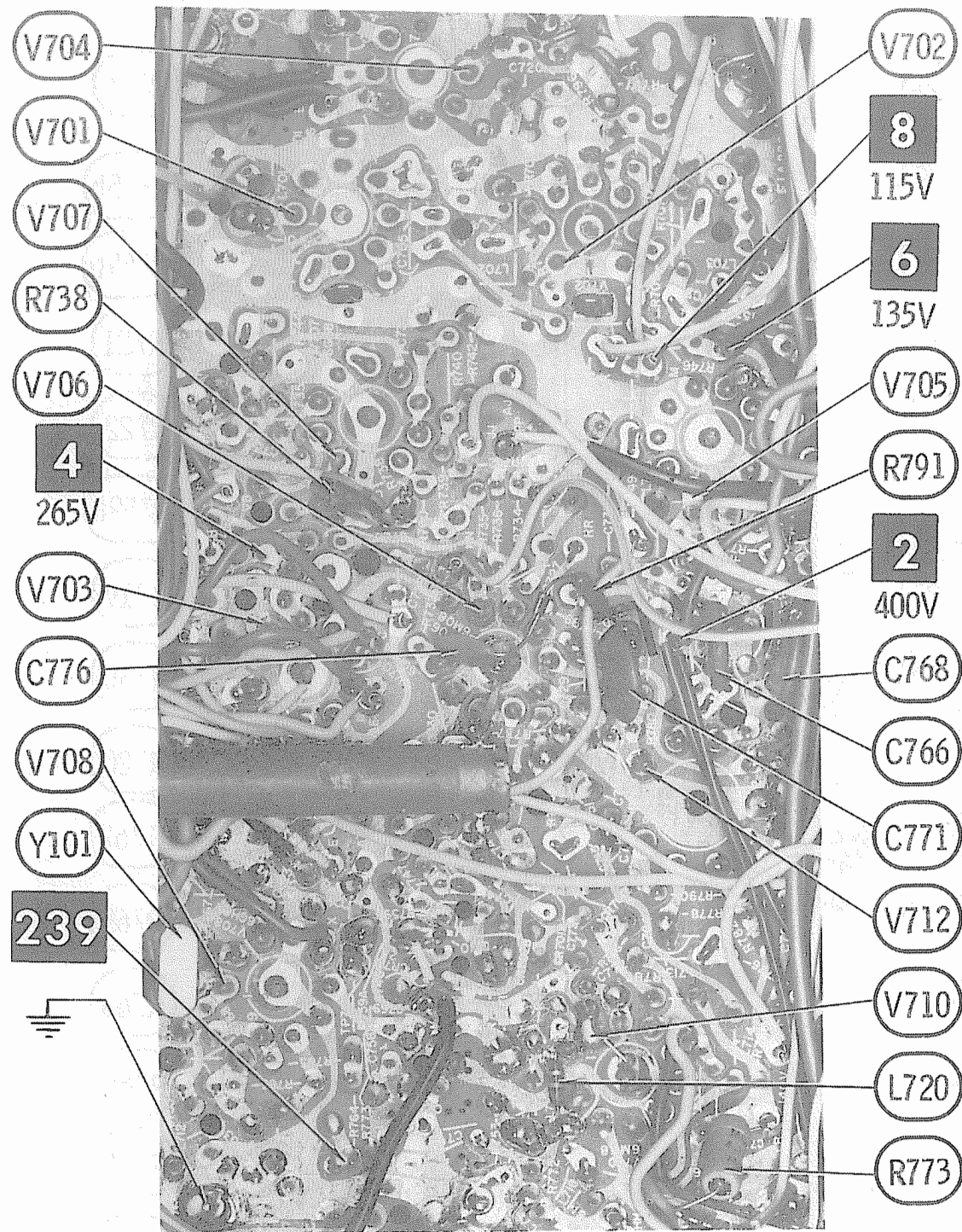
MAGNAVOX
CHASSIS T958 SERIES

FOLDER 2

A Howard W. Sams **CIRCUITRACE** Photo



CHROMA BOARD



CHROMA BOARD

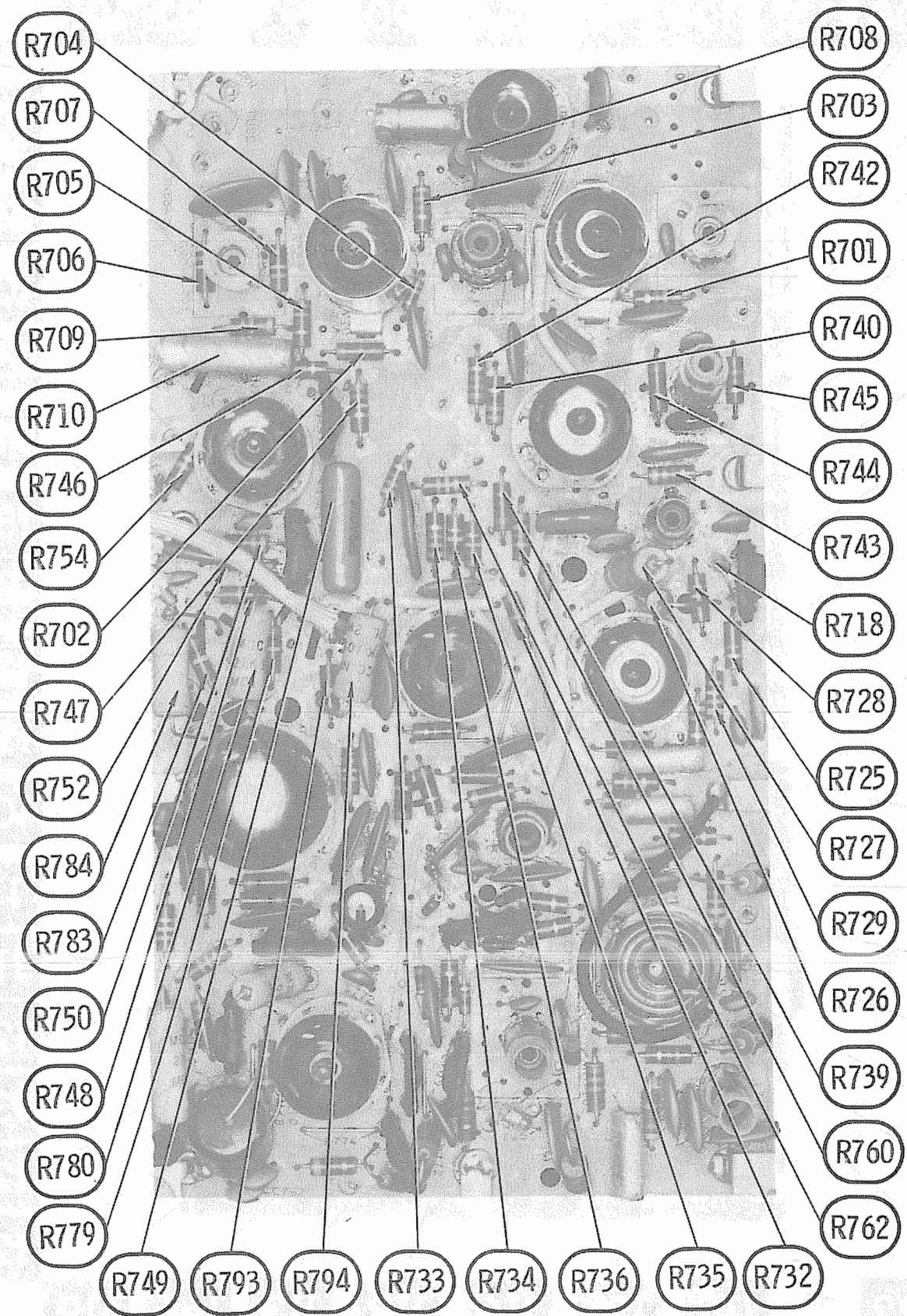
A Howard W. Sams **CIRCUITRACE** Photo

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

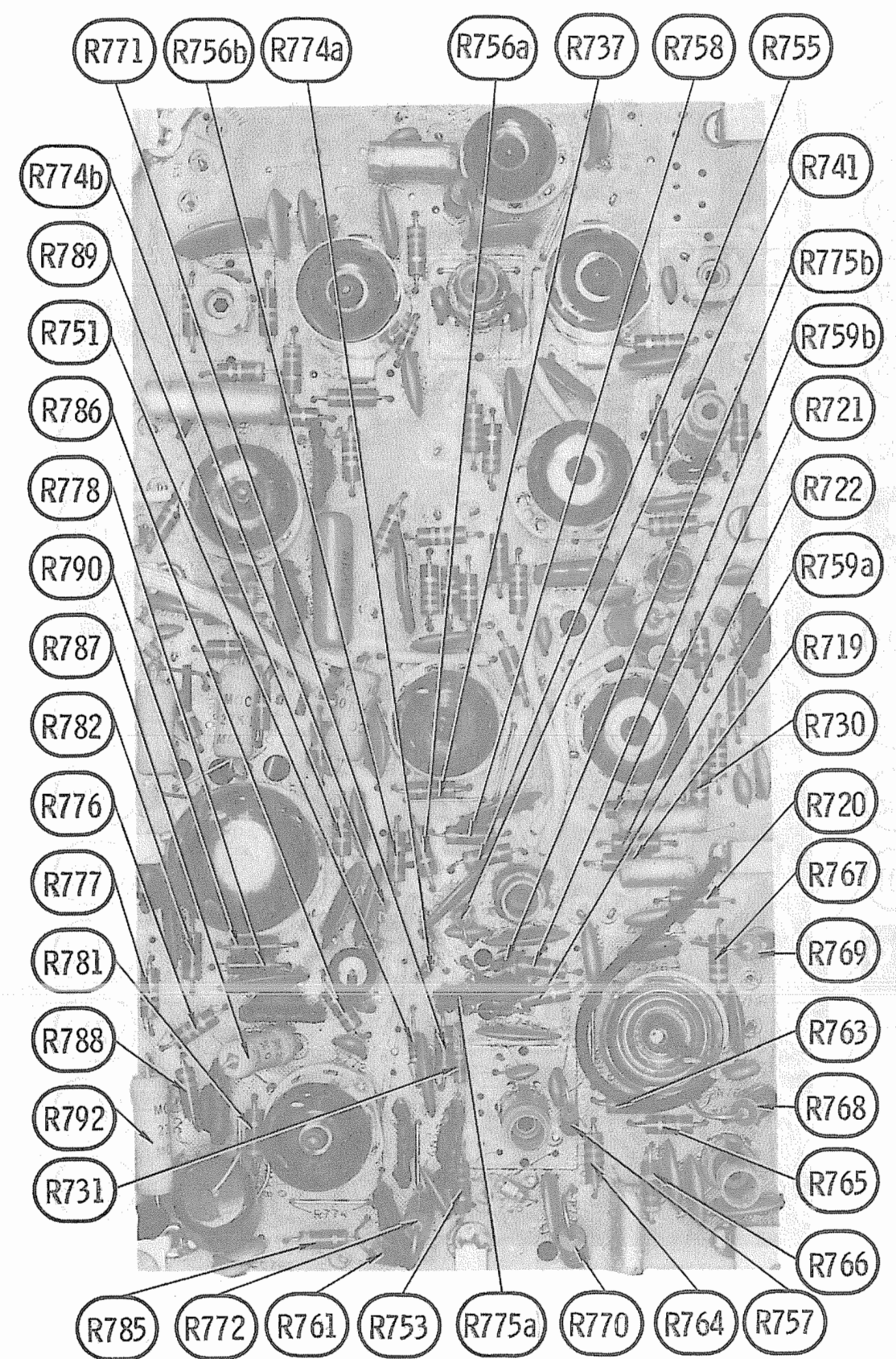
A Howard W. Sams **CIRCUITRACE** Photo

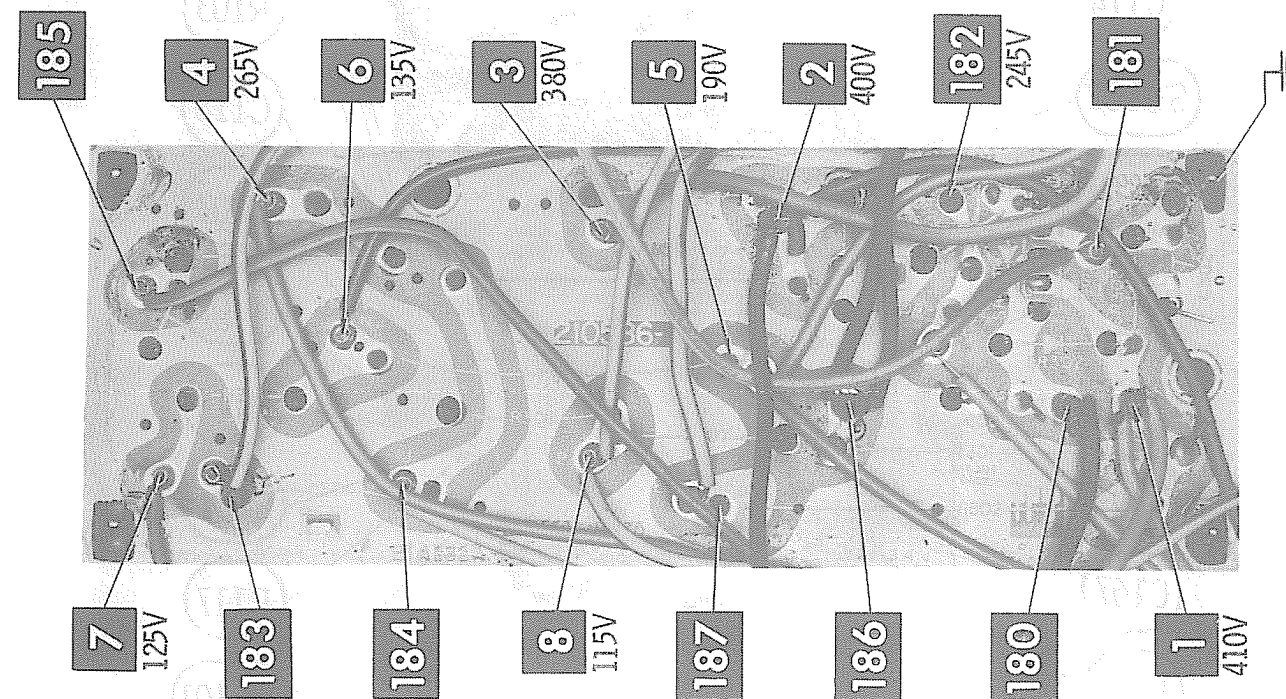
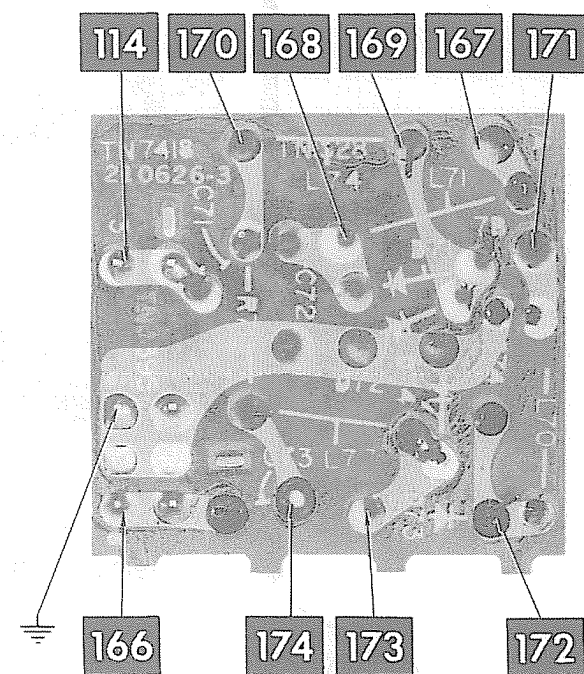
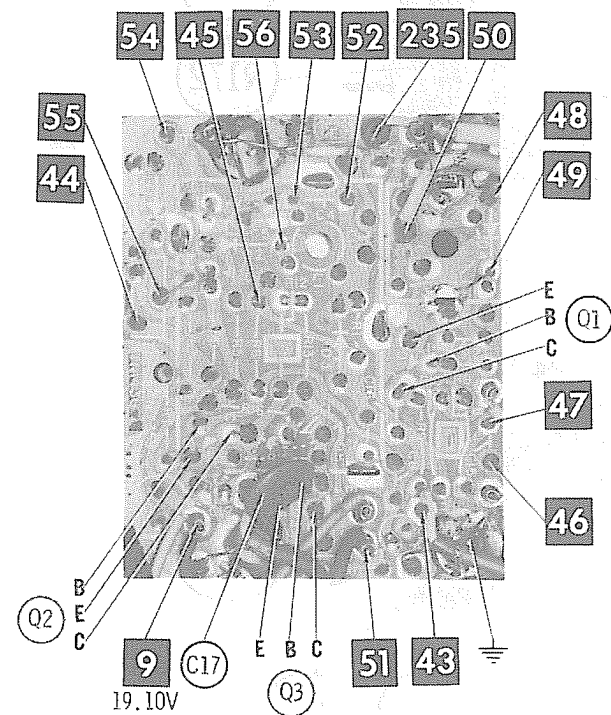
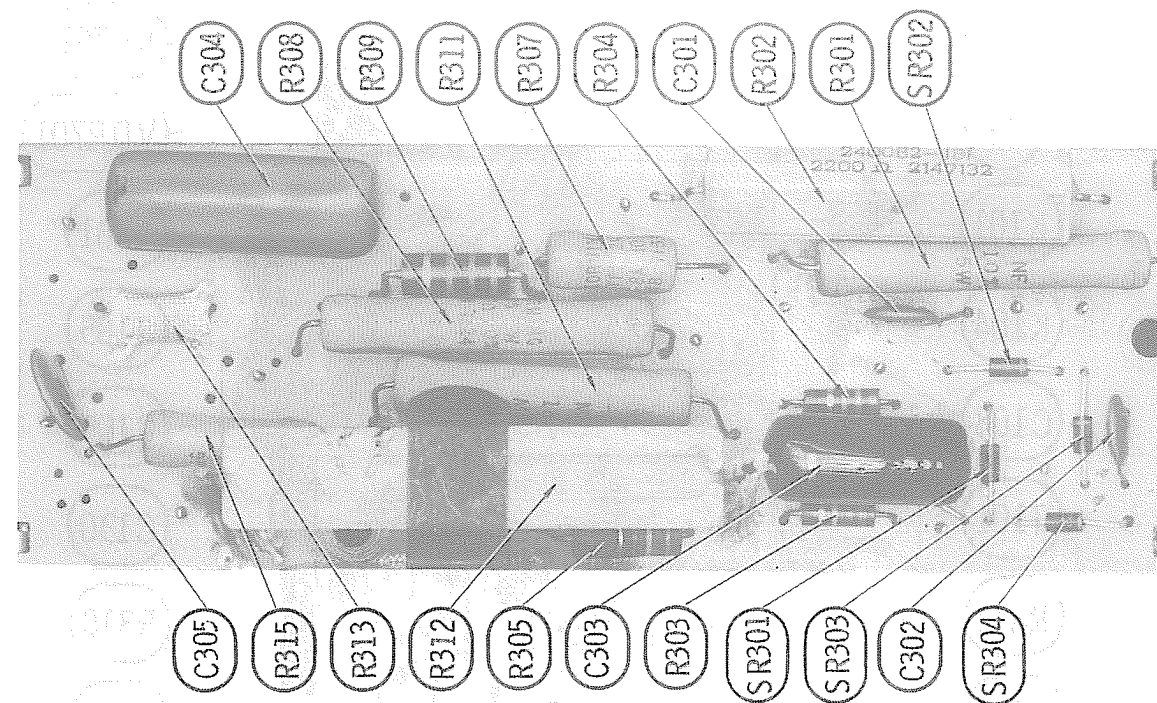
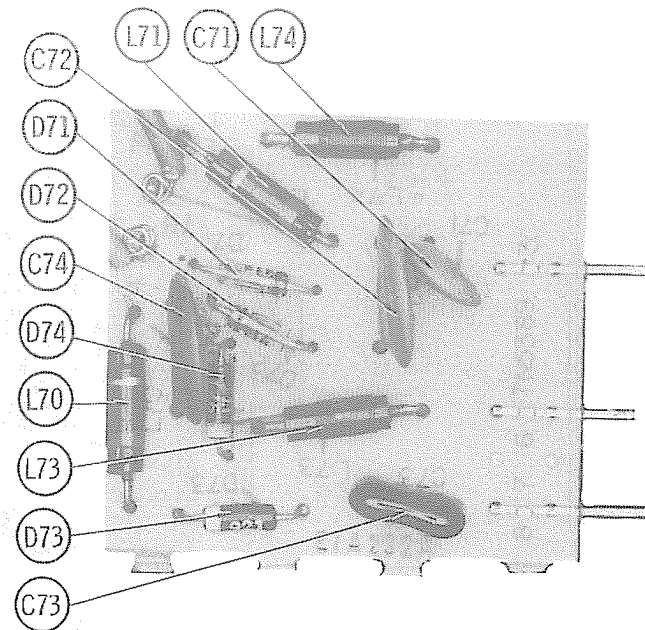
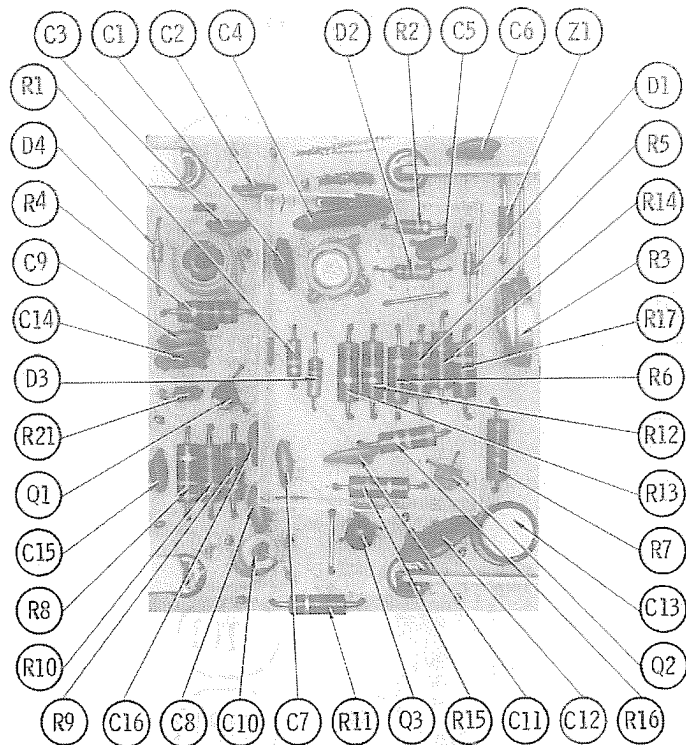
MAGNAVOX
CHASSIS 1958 SERIES

FOLDER 2



CHROMA BOARD



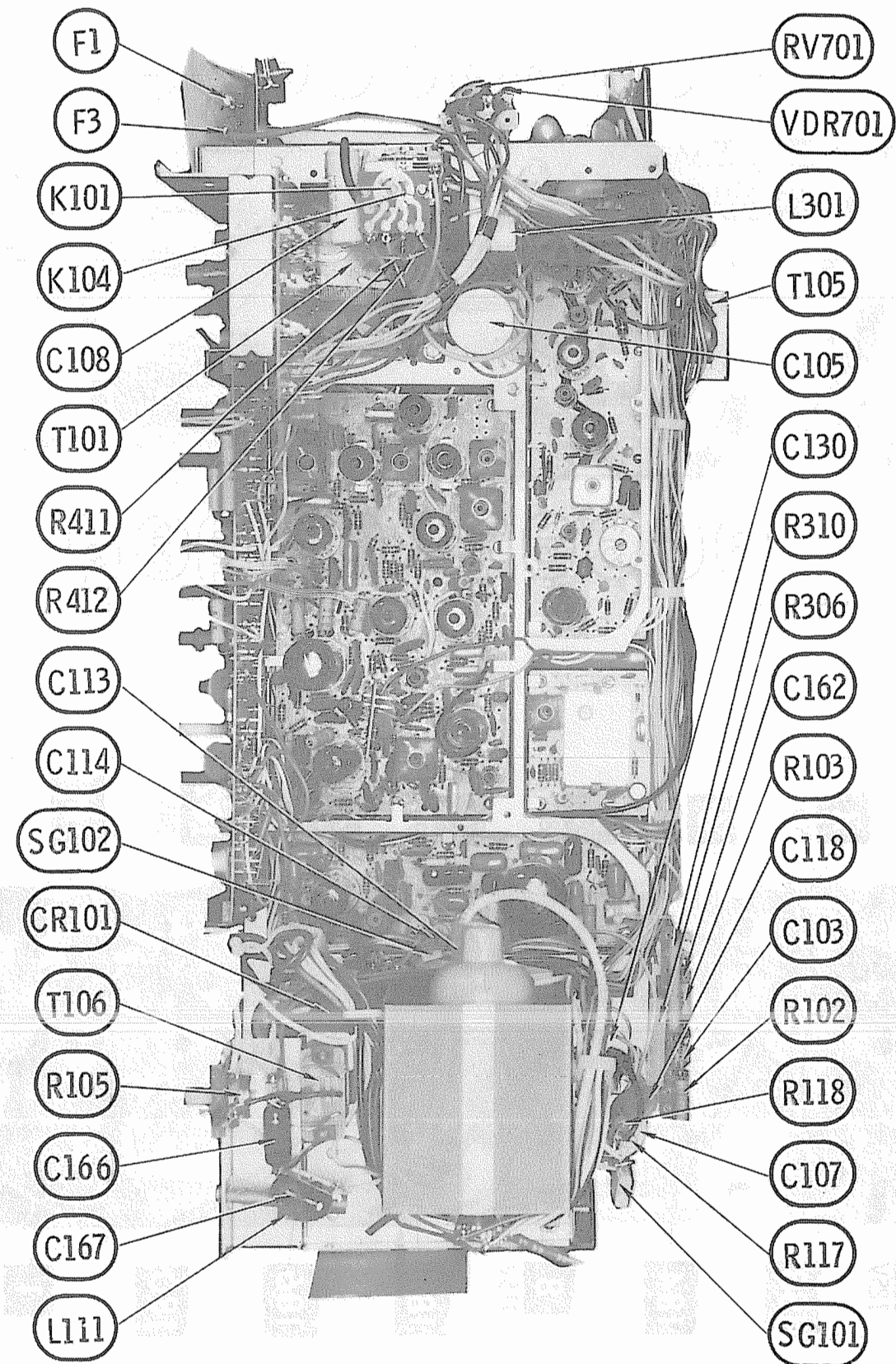


A Howard W. Sams **CIRCUITRACE** Photo AFT BOARD

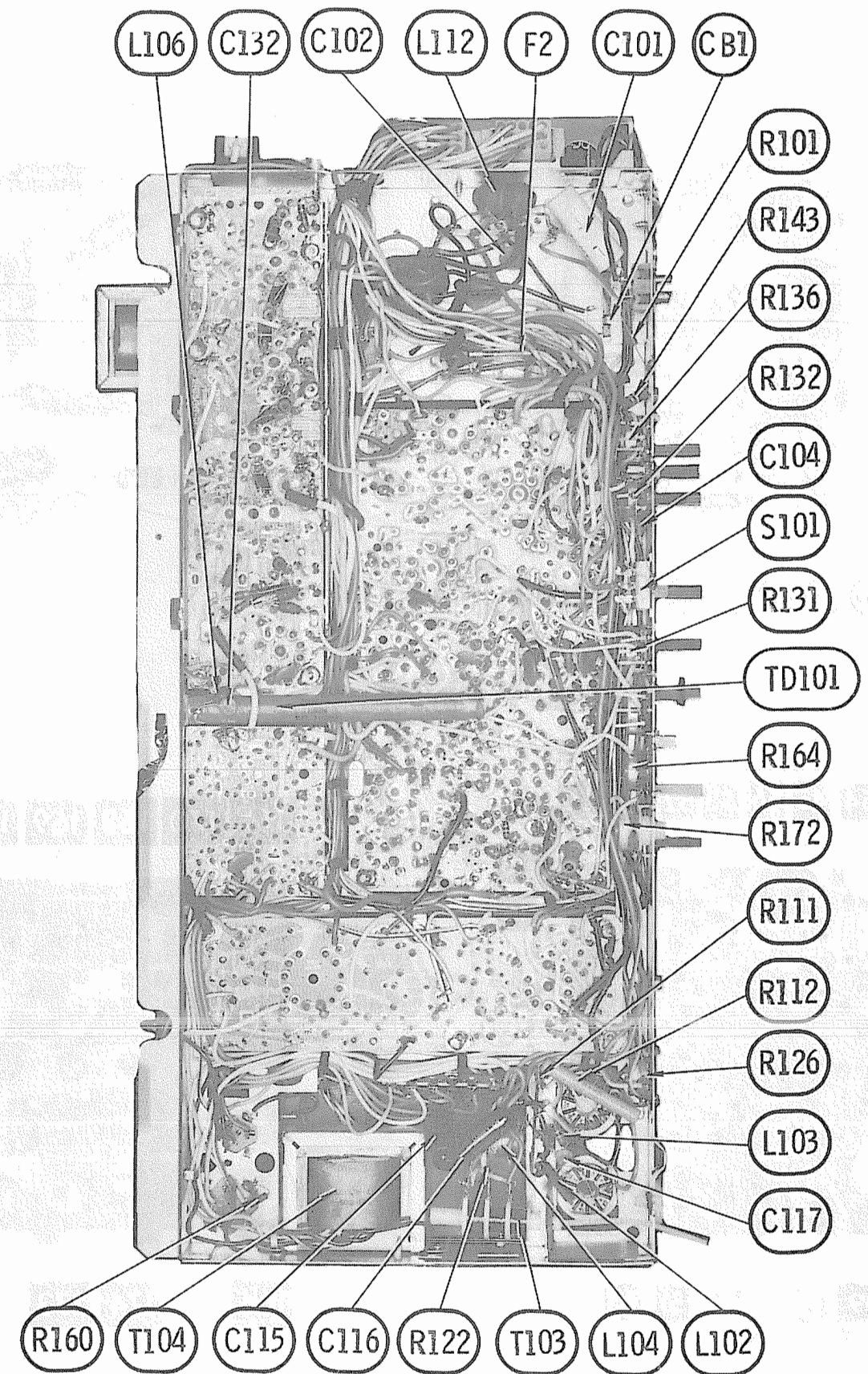
ATC BOARD

POWER SUPPLY BOARD

A Howard W. Sams **CIRCUITRACE** Photo

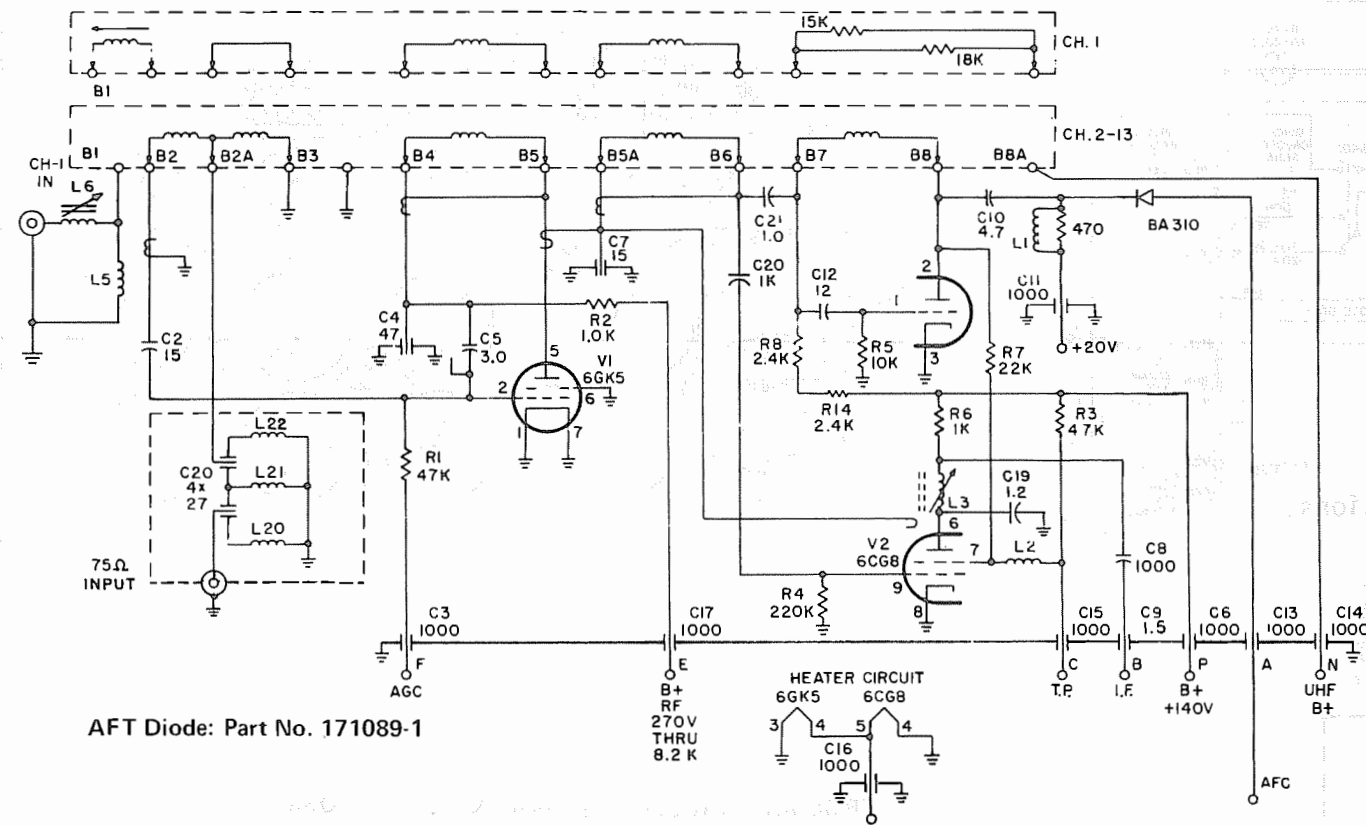


CHASSIS-TOP VIEW



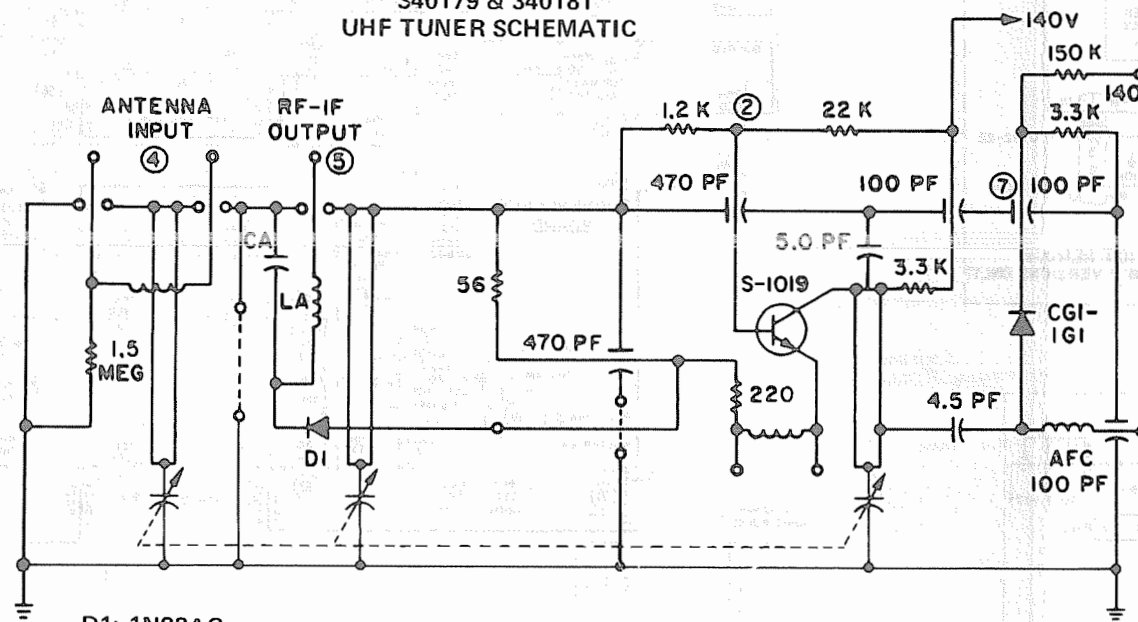
CHASSIS-BOTTOM VIEW

340199 VHF TUNER SCHEMATIC



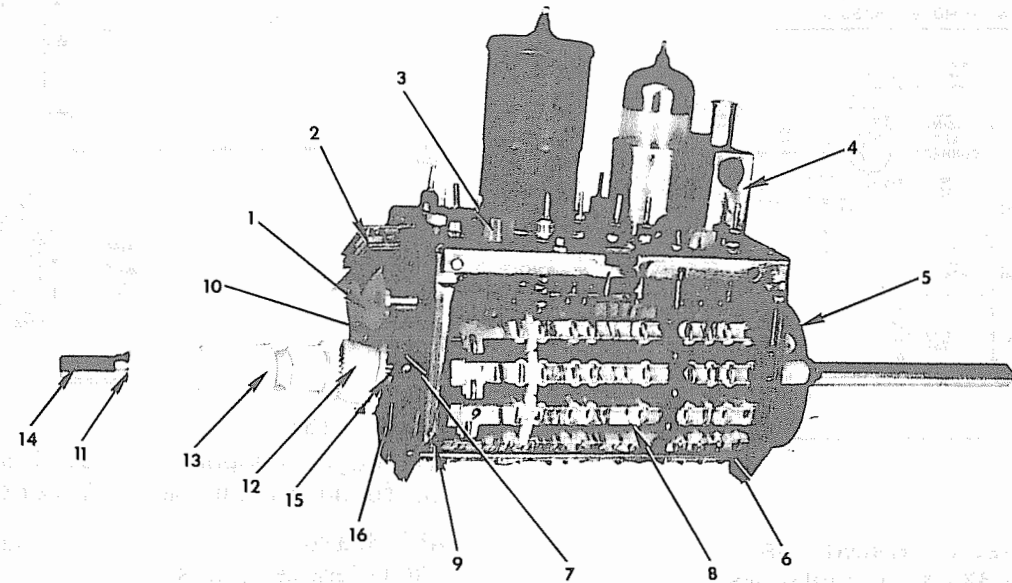
AFT Diode: Part No. 171089-1

340179 & 340181
UHF TUNER SCHEMATIC



D1: 1N82AG
AFT Diode: Part No. 171091-1
Q1: Part No. 170968-1

340199 VHF TUNER



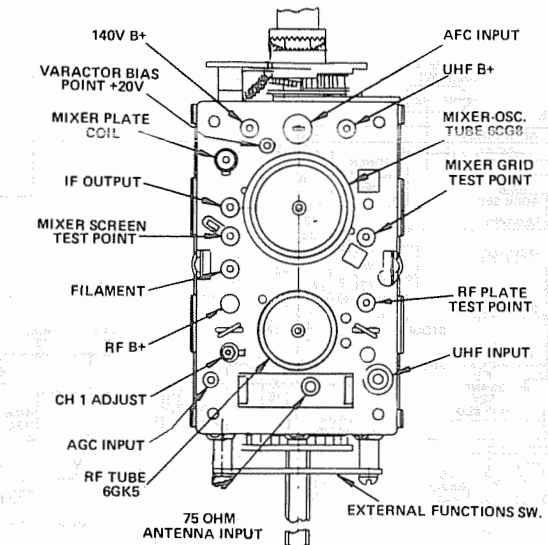
340199 VHF TUNER REPLACEMENT PARTS LIST

REF.	DESCRIPTION	PART NO.	REF.	DESCRIPTION	PART NO.
1	AFT Defeat Switch Actuating Lever	171124-1	9	Channel 1 (UHF) Strip (Hidden)	170920-1
2	AFT Defeat Switch	170972-2	10	Fine Tuning Slug (VHF Strip)	170914-1
3	IF Coil	4467-519*	11	Cluster Gear	170916-2
4	Antenna Input Assembly	5703-502*	12	Retainer	171133-1
5	Wafer Switch (340199-1)	170917-2	13	Tilt Gear	170916-1
6	Wafer Switch (340199-2)	170917-3	14	Fine Tuning Shaft	2879-3*
7	Detent Spring (340199-1)	3530-10*	15	Channel Selector Shaft	170915-2
8	Detent Spring (340199-2)	3530-11*	16	Gear Bearing	4482-1*
				Bearing Plate	3888-3*
				Cover (Not Shown)	3316-3*

* Vendor Part No.

340200 VHF TUNER

340199



Courtesy of the Manufacturer

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.

TRANSFORMERS (Sweep Circuits)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T102	Horiz Output	361411-1	H0-647CF			
T104	Vert Output	320376-2	VO-700C	26S86	A305X	
T106	Pincushion Transformer	361386-3				
T107	Yoke 90° (Horiz 12mh) (Vert 26mh)	361380-2 361380-1 (1)	DY-92AC	Y-110	YC-311-2	(1) Alternate

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T105	11.5K	3.2	320381-1				

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				MFGR. PART No.	QUAM PART No.	
SP1	4"	PM	3.2 ohms	580406-1	4A05	Model 2C6283

FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						WORKMAN PART No.
		PART No.		BUSS PART No.		LITTELFUSE PART No.		
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	
CB1	Circuit Breaker Hold Current 2.1A Break Current 3.1A	180723-2				815-003		FA3
F1	5A @ 125V, Slow Blow	180157-19	180947-2	MDX5	3823-2	313005	357002	
F2	7A @ 125V, Slow Blow	180865-5700		MDV7		315007		
F3	25A @ 32V, Slow Blow	180157-42	180947-2	MDL25	3823-2	313025	357002	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
	VHF Antenna		JFD Replacement TA-545
	UHF Antenna		
	VHF Tuner	340200-1/-2/-3	
	VHF Tuner	340199-1/-2/-3	
	VHF Tuner	340180-2	
	UHF Tuner	340178-2	On-Off/Volume Stepper
	UHF Tuner	340179-1	
	UHF Tuner	340181-1/-2	
	Relay	160418-6	
		(160418-9)	
K101	Relay	160413-8	On-Off
M1	Degaussing Coil	361266-6	
M3	Motor	500222-10	VHF Tuning
M4	Motor	500221-4	UHF Tuning
S101	Switch	160370-23	Remote Defeat
S402	Switch	160451-4	AFT Defeat All Chassis except T958-07/-13
	Switch	160370-19	AFT Defeat Chassis T958-07/-13
S403	Switch	160451-9	Auto - Tint used in Chassis: T958-01/-02/-20/-21/-22/-23/-25/-71/-72/-90/-91/-92/-93.
	Switch	160370-19	Auto-Tint used in Chassis: T958-07/-13
S404	Switch	160393-3	Select On-Off Volume all Chassis except T958-07/-13
S405	Switch	160451-7	UHF Up/Down all Chassis except T958-07/-13
S406	Switch		VHF/UHF Selector Switch
S407	Switch		UHF Reverse
S408	Switch	160370-2	Normal - Purity - Service
SG101	Spark Gap	180832-1	
SG102	Spark Gap	180832-3	
SG601	Spark Gap	180832-4	
SG602	Spark Gap	180832-4	
TD101	Delay Line	361364-4	
Y101	Crystal	530089-2	3.58MC
	Socket	180668-6	HV Rect Tube

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

PARTS LIST AND DESCRIPTION

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

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

WIRING DATA

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
300-Ohm Tuner Input Lead	Use BELDEN No. 8225
300-Ohm 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

TUBES

AMPEREX			GENERAL ELECTRIC			RCA			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V101	HV Rectifier	3DB3 (1)	V702	Audio Detector	6DT6A	V701	Sound IF	6AU6A	V710	X-Z Demodulator	6MH8A
V102	Shunt Regulator	6EH4	V703	AGC Keying - Sync Separator	6GH8A	V702	Audio Detector	6DT6A	V711	Y-Z Demodulator	6MD8
V103	Damper	6DW4A	V704	Audio Output	6AQ5A	V703	AGC Keying - Sync Separator	6GH8A	V712	G-Y -- B-Y -- R-Y Amps	
V104	Horiz Output	6LQ6/6JE6C	V705	Video Output	12GN7A	V704	Audio Output	6AQ5A			
V201	1st Video IF	6JH6	V706	Color Killer - Burst Amp	6MQ8	V705	Video Output	12GN7A			
V202	2nd Video IF	6GM6	V707	Chroma Bandpass Amp - Horiz Blanking Amp	6GH8A	V706	Color Killer - Burst Amp	6MQ8			
V203	3rd Video IF	6JC6A	V708	3.58MC Oscillator Control - 3.58MC Oscillator	6GH8A	V707	Chroma Bandpass Amp - Horiz Blanking Amp	6GH8A			
V204	1st Video Amp - 2nd Video Amp	6MU8				V708	3.58MC Oscillator Control - 3.58MC Oscillator	6GH8A			
V501	Vert Mult - Vert Output	6LUB									
V502	Horiz AFC - Horiz Oscillator	6FQ7/6CG7									

(1) 3A3/3CU3 used in early versions -- do not substitute.

SEMICONDUCTORS

ITEM No.	TYPE / MFGR. No. / PART No.	REPLACEMENT DATA							
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SPRAGUE PART No.	SYLVANIA PART No.	MOTOROLA PART No.	
CR101	530132-1	GE-300 (7)	61-8969	PTC208	SK3066		ECG 118		
CR601	530097-3	GE-300 (7)	61-8968	PTC209	SK3109		ECG 119		
CR701a	170733-1 (6)	GE-300 (7)	D200MP (6)	PTC215 (6)	SK3100 (7)	RT218 (7)	ECG 178MP (6)		
CR702a	170733-1 (6)	GE-300 (7)	D200MP (6)	PTC215 (6)	SK3100 (7)	RT218 (7)	ECG 178MP (6)		
CR801	10B4/530122-1	GE-504A (2)	8D4 (2)	PTC201 (2)	SK3030 (2)	RT215 (2)	ECG 116 (2)		
D1	530072-1006	GE-300	D200	PTC214	SK3100	RT218	ECG 177		
D2	530105-1001	1N60	1N60	PTC206	SK3088		ECG 109		
D3	530105-1001	1N60	1N60	PTC206	SK3088		ECG 109		
D4	530144-1003	GE-300	D200	PTC214	SK3100	RT218	ECG 177		
D71	530115-1001	GE-300	D200	PTC214	SK3100	RT218	ECG 177		
D72	530116-1001	GE-300	D200	PTC214	SK3100	RT218	ECG 177		
D73	530092-1001	GE-300	D200	PTC214	SK3100	RT218	ECG 177		
D74	530092-1001	GE-300	D200	PTC214	SK3100	RT218	ECG 177		
C201	530065-1003	1N60	1N60	PTC206	SK3088		ECG 109		
D202	530065-1003	1N60	1N60	PTC206	SK3088		ECG 109		
D401	530082-1004	GE-504A	8D6 or 5A6D	PTC202	SK3017A or	RT210 or	ECG 116 or		
					SK3032	RT215	ECG 117		
D604	530097-3	GE-300	D200	PTC214	SK3100	RT218	ECG 177		
Q1	77N4/610077-4	GE-20	TR-21	PTC115	SK3018	RT107	ECG 108	HEP721	
Q2	151N1/610151-1	GE-20	TR-21	PTC115	SK3018	RT107	ECG 108	HEP56	
Q3	151N1/610151-1	GE-20	TR-21	PTC115	SK3018	RT107	ECG 108	HEP56	
SR301	530088-1002	GE-504A	8D6 or 5A6D	PTC202	SK3017A or	RT210 or	ECG 116 or		
					SK3032	RT215	ECG 117		
SR302	530088-1002	GE-504A	8D6 or 5A6D	PTC202	SK3017A or	RT210 or	ECG 116 or		
					SK3032	RT215	ECG 117		
SR303	530088-1002	GE-504A	8D6 or 5A6D	PTC202	SK3017A or	RT210 or	ECG 116 or		
					SK3032	RT215	ECG 117		
SR304	530088-1002	GE-504A	8D6 or 5A6D	PTC202	SK3017A or	RT210 or	ECG 116 or		
					SK3032	RT215	ECG 117		
SR501	530093-1	6GC1	DD04	PTC407	SK3119		ECG 113		
SR601	530088-4	GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	RT213 or	ECG 116 or		
				PTC202	SK3031	RT214	ECG 117		
SR6D2	530106-1001	GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	RT213 or	ECG 507		
				PTC202	SK3031	RT214			
SR603	530106-0001	GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	RT213 or	ECG 507		
				PTC202	SK3031	RT214			
SR605	530084-4	GE-504A	8D4 or 5A4D	PTC201 or	SK3030 or	RT213 or	ECG 116 or		
				PTC202	SK3031	RT214	ECG 117		
SR801	530098-1001	GE-504A	8D4	PTC201	SK3017A	RT215	ECG 116		
SR802	530072-1014	GE-504A	8D4	PTC201	SK3017A	RT215	ECG 116		
Z1	530073-1028 (1)	GEZD-20	Z1218				ECG 5079		

(2) Two required.

(6) Matched Pair.

(7) Two required - select matched pair.

(10) Zener

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.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		MFGR. PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C10	2 50V	270082-701	ME-1-J-002	EA50-2	WBR2-50	MT1-1	MTA2050	TVA-1301
C13	100 25V	270109-1225	RME-G-G-100	EA30-100	WBR100-25	MT1-20	MTV100DB25	EV-1330
C103	10 300V	270027-36	CTA-1370		WBR10-500	QT1-6	TC-62A	TVA-1604
C105a	80 450V	270071-12	CTM-3745		CC0370.5A	XC3-42	FP375.75	TVL-3775.9
b	80 450V							
c	20 350V							
a	80 450V	270071-13 (1)						
b	80 450V							
c107a	80 450V	270071-23					FP433.3	TVL-4754
b	30 450V							
c	50 450V							
d	40 200V							
a	20 450V	270023-43 (1)						
b	20 350V							
c130a	20 450V	270023-42	CTM-3754		CC0295A	XC3-24	FP376.5A	TVL-3724.12
b	20 350V							
c	20 350V							
C162	50 50V	270082-713	ME-7-J-050	EA50-50	WBR60-50	MT1-17	MTA50E50	TVA-1308
C401	100 25V	270082-617	ME-7-G-100	EA30-100	WBR100-25	MT1-20	MTA100F35	TVA-1207
C707	25 25V	270082-2610	ME-3-G-025	EA30-25	WBR25-25	MT1-11	MTA25035	TVA-1205
C811	5 25V	270082-603	ME-1-G-005	EA30-5	WBR5-50	MT1-3	MTA5050	TVA-1203
C812	5 25V	270082-603	ME-1-G-005	EA30-5	WBR5-50	MT1-3	MTA5050	TVA-1203

(1) Alternate used in some versions.

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			ARCO/ELMENC0 PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	33 NPO 5%		CCT0-330	DTZ-33	NP033	CN0433	10TCC-Q33
C2	15 NPO 5%		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
C3	15 NPO 5%		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
C4	100 NPO 5%		CCT0-101	DTZ-100	NP0100	CN0310	10TCC-T10
C5	1.5 NPO +.1			DTZ-1R5	NP01P5	CN0515	10TCC-V15
C6	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C7	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C8	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C9	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C11	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C12	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C14	.0015		CCD-152	DD-152	GP215	GP215	10TS-D15
C15	220 10%		CCO-221	DD-221	GP220	GP322	10TS-T22
C16	330 10%		CCO-331	DD-331	GP330	GP333	10TS-T33
C17	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C71	27 NPO 5%		CCT0-270		NP027	CN0427	10TCC-Q27
C72	.01 10%		CCD-103	DD-103	GP10000	JF110	10TS-S10
C73	120 5%		CCT0-121	DTZ-120		CN0312	10TCC-T12
C74	.01 10%		CCD-103	DD-103	GP10000	JF110	10TS-S10
C101	.047 150VAC	#250623-4770	160P-5-473		16S47		16PS-S47
C102	.0022 1.4KV			D30-222			30GA-D22
C104	.0033		CCO-332	DD-332	GP3300	JF233	10TS-D33
C108	.1 150VAC						
C113	.68 4KV/N1500	#250475-24	*			*	*
C114	180 2KV 10%		3CCD-181	DD30-181	HV6-180		30GA-T18
C115	.082 600V 5%		6DP-4-823		DPMS6S82	PVC6168	6PS-S82
C116	.068 600V 5%		6DP-4-683		DPMS6S68	CN7422	6PS-S68
C117	22 1KV/N750		CCTN-220		N22		10TCU-Q22
C118	130 6KV/N2200	#250475-11				*	*
C132	20 NPO 5%		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
C166	.1 400V		40P-3-104		DPMS4P1	PVC401	4PS-P10
C167	.1 400V		40P-3-104		DPMS4P1	PVC401	4PS-P10
C171	100 3KV 5%		3CCD-101	DD30-101	HV3-100	6HV310	30GA-T10
C172	470 2.5KV 10%		3CCD-471	DD30-471	HV3-470	3HV347	30GA-T47
C173	470 2.5KV 10%		3CCD-471	DD30-471	HV3-470	3HV347	30GA-T47
C201	9.1 NPO		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C202	150 NPO 5%		CCD-151	DD-151	GP150	GP315	10TS-T15
C203	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C204	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C205	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C206	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C207	680 N2200 10%	#250569-1				*	10TCV-T68
C208	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C209	.001 1KV		CCD-102	DD-102	GP1000	GP210	10TS-D10
C210	.001 1KV		CCD-102	DD-102	GP1000	GP210	10TS-D10
C211	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C212	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C214	220 N1500	#250529-2219	*			GP210	10TS-D10
C215	.001		CCD-102	DD-102	GP1000	CN15-322	10TCW-T22
C216	470 N1500 5%	#250529-4715	*			GP210	10TS-D10
C217	.001		CCD-102	DD-102	GP1000	CN15-322	10TCW-T47
C219	10 NPO 5%		CCD-102	DD-102	GP1000	GP210	10TS-D10
C220	10 NPO 5%		CCT0-100	DTZ-10	NP010	CN0410	10TCC-Q10
C221	100 NPO 5%		CCT0-100	DTZ-100	NP0100	CN0310	10TCC-T10
C222	.0022 10%		CCD-222	DD-222	GP2200	GP222	10TS-D22
C223	470 5%		CCD-471	DD-471	GP470	GP347	10TS-T47
C224	1.5 N3300 +.25	#250088-186	*			*	*

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

COILS (RF-IF) (cont)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
T204	4th Video IF/41.25MC Trap	360952-2	17-3420	6037	TF278
T701	Chroma Bandpass	361093-2		6042	
T702	Burst	361094-2	17-6023	6043	
T703	3.58MC Oscillator	361198-2	17-6020	6041	

(1) Clip unused pin

(2) Two required.

(3) Shunt with 4700-ohm Resistor.

(4) Shunt with 3300-ohm Resistor.

(5) Shunt with 2200-ohm Resistor.

COILS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA					
		MFGR. PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.	WORKMAN PART No.
T103	Focus	361306-1					
L104	Horiz Efficiency	361022-5					
L111	Pincushion Phase	361387-3					
L501	Horiz Frequency-Waveform	360960-3					
L801	Right R-G Vert (Right R-G Master Ampl.)	361092-10					
L802	Right R-G Horiz	361092-3	6348				
L803	Blue Center	361092-1					
L804	Left Blue Horiz	361188-1	H-138				
L805	Right Blue Horiz (Blue Master Tilt)	361092-5					
a	Convergence Yoke Assembly	(1092-5)					
b	Blue Section	(701280)					
c	Green Section	171018-1					
d	Red Section	171018-1					
T103	Focus	361306-1					

FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L301	400MA DC	15	.52HY	320124-18				

TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFGR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T101	117VAC (1) @ 3.5AAC	320VAC @ 400ma DC	300283-1 300283-2 (2)				(1) Primary has Standby tap. (2) Used in some versions.
	SEC. 2	SEC. 3					
	120VAC @ .450AAC, Tapped @ 21VAC @ 90ma DC, Tapped @ 6.3VAC @ 2AAC	6.3VAC @ 10AAC					

SWEEP COMPONENT CONNECTION DATA

ORIGINAL →	HORIZONTAL OUTPUT										VERTICAL OUTPUT									
REPLACEMENT ↓	Original Connections										Original Connections									
STANCOR											EXACT									
THORDARSON											EXACT									
TRIAD											EXACT									
ORIGINAL →	YOKE										YOKE PLUG									
REPLACEMENT ↓	Original Connections										TO YOKE TERMINALS									
STANCOR											EXACT									
THORDARSON											EXACT									
TRIAD											EXACT									

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.

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS—IRC PART No.	MALLORY PART No.
R815	Blue Horiz Lines, Top (Blue Tilt)	60 2W	220167-10	WCP-60 or V-60	U39-75	110C60	MRC60P

(1) Insulate control from chassis and solder original center terminal lead to metal case of control.

(2) Use original nylon TM.

(3) Use original tab mount and solder center lead to case of control.

(4) For horizontal mounting, bend the two outside terminals to fit PC board. Use jumper to connect center terminal to PC board.

(5) Refer to Part number stamped on control for correct Part number used in all chassis other than T958-25-AF.

(6) May be used in some versions.

* "SNAPTROL"

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		WORKMAN PART No.	MFGR. PART No.			WORKMAN PART No.	MFGR. PART No.
R102	12K 3W, Film	3G-12K	230193-1239	R606a	1.5meg 1W, Carbon		
R103	5600 2W, Film	3G-5.6K	230192-5629	b	1.5meg 1W, Carbon		170534-1 (1)
R104	1 5%, 1/2W, Film		230196-1095	R610	1800 3W, Film	3G-1.8K	230193-1829
R112	15K 7W, Film	7G-15K	230197-1539	R616	5600 4W, Film	4G-5.6K	239194-5629
R117	66meg, 6KV, Film	66M	230161-3	R617	6800 2W, Film	3G-6.8K	230192-6829
R174	Thermistor (4 Cold)	FR 3.8		R630	3300 3W, Film	3G-3.3K	230193-3329
R206a	150K 1/2W, Carbon			R727	6800 3W, Film	3G-6.8K	
b	150K 1/2W, Carbon			R773	4700 2W, Film	3G-4.7K	
R301	4300 5W, Film	5G-4.3K	230195-4329	R774a	1000 1/4W, Carbon		
R302	2200 10W, WW	10W-SQ-2.25K	240082-181	b	1000 1/4W, Carbon		170534-5 (1)
R306	820 5%, 10W, WW	10W-SQ-820	240082-71	R775a	1000 1/4W, Carbon		
R307	6800 2W, Film	3G-6.8K	230192-6829	b	1000 1/4W, Carbon		170534-5 (1)
R308	910 5W, Film		230195-9119	R780	27K 2W, Film	3G-27K	
R310	3300 7W, Film	7G-33K	230197-3329	R784	27K 2W, Film	3G-27K	
R311	18K 4W, Film	4G-18K	230194-1834	R787	22K 2W, Film	3G-22K	
R312	870 22W, WW		240088-7	R792	270 3W, Film	3G-270	230193-2719
R315	8200 3W, Film	3G-8200	230193-8229	R794	27K 2W, Film	3G-27K	
R515	560 2W, Film	3G-560	230192-5619	RV701	Thermistor (120 Cold)	FR191	230170-5
R533	174K 1/2W, Film		230190-1745	VDR501	VDR (2)		230167-7
R537	33K 2W, Film	3G-33K	230192-3339	VDR701	VDR (2)		230175-1

COILS (RF-IF)

(1) Matched within 2%. (2) Voltage Dependent Resistor.

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	AFT Discriminator	361384-1			
L2	AFT Detector	360842-1		23AP67RPC (1)	
L70	RF Choke (12uh)	360676-1		72F125AP	
L71	RF Choke (12uh)	360676-1		72F125AP	
L73	RF Choke (9uh)	360522-9	19-4217	4602	T980
L74	RF Choke (9uh)	360522-9	19-4217	4602	T980
L102	RF Choke (5.6uh)	360676-5		74F566AP	T820
L103	RF Choke (5.6uh)	360676-5		74F566AP	T820
L106	Peaking (82uh)	361091-16	19-2023	72F825AP	TA813
L112	Line Choke (65uh)	361250-1		5248 (2)	
L201	47.25MC Trap	360951-4		7553	TA260
L203	RF Choke (.9uh)	360852-11	19-1000	74F106AP	T806
L205	RF Choke (12uh)	361365-1201		72F125AP	
L206	4.5MC Trap	360953-2	7142	TA264	20-1057
L207	RF Choke (62uh)	361091-11	19-2022 (3)	6110 (3)	T302 (3)
L208	RF Choke (1.5uh)	360676-17	19-1001	74F156AP	T809
L209	RF Choke (12uh)	360676-1		72F125AP	
L210	Peaking (620uh)	361324-621	19-2030	4650	T871
L211	RF Choke (.9uh)	360852-11	19-1000	74F106AP	T806
L212	RF Choke (1.5uh)	360852-9	19-1001	74F156AP	T809
L203	RF Choke (5.6uh)	360676-7	19-1008	74F566AP	T820
L204	RF Choke (1uh)	360852-10	19-1000	74F106AP	T806
L215	RF Choke (1.5uh)	360852-9	19-1001	74F156AP	T809
L206	RF Choke (1uh)	360852-10	19-1000	74F106AP	T806
L601	Peaking (100uh)	361091-17	19-3100 (4)	72F104AP	T305 (4)
L602	Peaking (310uh)	361091-4	19-3300	6155	T318
L701	Sound Takeoff	360845-2		SI-143 (1)	TB639 (1)
L702	Sound IF	360846-3	17-1048	SI-144	
L703	Quadrature	360847-2		Q-113	
L705	Peaking (620uh)	360853-11	19-2030	6146	T871
L707	Peaking (180uh)	361324-181	19-3180	72F184AP	T310
L708	Peaking (120uh)	360853-4	19-3125 (5)	6153	T307 (5)
L709	Peaking (47uh)	361324-470	19-7047	72F475AP	T954
L710	RF Choke (5.6uh)	361323-569	19-1008	74F566AP	T820
L712	3.58MC Oscillator Control	360963-3		6040	
L713	Peaking (620uh)	360853-11	19-2030	6146	T871
L714	Peaking (620uh)	360853-11	19-2030	6146	T871
L716	Peaking (10uh)	361365-1	19-2016	72F105AP	T823
L717	Chroma Takeoff	360959-5	17-6028	CO-1012	
L718	RF Choke (47uh)	361324-470	19-2030	4650	T871
L720	RF Choke (5.6uh)	360676-7	19-1008	74F566AP	T820
T201	1st Video IF	360951-1	17-3418	7549	T272
T202	2nd Video IF	360951-6	17-3419	7552	T8644
T203	3rd Video IF	360951-5	17-3414	7526	TA258

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				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C225	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C226	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C227	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C228	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C231	2.2 NPO 5%			DTZ-2R2	NP02P2	CN0522	10TCC-V22
C301	.001 1KV		CCD-102	DD-102	GP1000	GP210	10TS-D10
C302	.001 1KV		CCD-102	DD-102	GP1000	GP210	10TS-D10
C303	.1 400V		40P-3-104		DPMS4P1	PVC401	4PS-P10
C304	.22 400V		40P-5-224		DPMS4P22	PVC4022	4PS-P22
C305	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C402	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C403	24 NPO 5%			DTZ-25		CN0425	10TCC-Q25
C405	1mf						
C412	.47 75V		1DP-4-474		DPMS2P47	PVC1047	2PS-P47
C501	.0027 N5600 10%		*		DPMS6S22	PVC6122	6PS-S22
C502	.022 600V 10%		60P-2-223			GP215	10TS-D15
C503	.0015		CCD-152	DD-152	DPMS6S1	PVC411	4PS-S10
C504	.01 400V		40P-1-103	CPR-10000J	GP1000	GP210	10TS-D10
C505	.001 10%		CCD-102	DD-102			
C506	.0027 N5600 10%		*				
C507	.0022		CCD-222	DD-222	GP2200	GP222	10TS-D22
C508	.1 600V		60P-4-104		DPMS6P1	PVC601	6PS-P10
C509	.036 600V 5%		60P-3-363		DPMS6S36		
C510	.047 600V 10%		60P-3-473		DPMS6S47	PVC6147	6PS-S47
C511	.022 600V 5%		60P-2-223		DPMS6S22	PVC6122	6PS-S22
C512	.047 600V 10%		60P-3-473		DPMS6S47	PVC6147	6PS-S47
C513	.0082 1KV		160P-3-822		DPMS20D82	PVC16282	
C514	.47 75V		10P-4-474		DPMS2P47	PVC1047	2PS-P47
C515	.001 2KV 10%				2001	PVC2X21	20PS-D10
C516	.01 1KV		CCD-103	DD-103	GP10000	JF110	10TS-S10
C517	.047 200V		40P-3-473		DPMS6S47	PVC4147	4PS-S47
C520	68 NPO 10%					CN0468	10TCC-Q68
C521	68 NPO 10%					CN0468	10TCC-Q68
C522	27 N750 10%		CCTN-270			CN7427	10TCU-Q27
C523	820 10%		CCD-821	DD-821	GP820	GP382	10TS-T82
C524	820 10%		CCD-821	DD-821	GP820	GP382	10TS-T82
C525	.15 75V		40P-4-154		DPMS4P15	PVC6015	4PS-P16
C526	.001 10%		CCD-102	DD-102	GP1000	GP210	10TS-D10
C527	390 1.5KV/N1500/ 5%	#250569-3	*			*	*
C528	.01 400V 10%		40P-1-103	CPR-10000J	DPMS6S1	PVC411	4PS-S10
C529	680 500V 5%		DM-16-681	CPR-680J	CD19FD681J03	SX368	MS-368
C530	.0015 600V 10%		60P-1-152		DPMS6D15	PVC6215	6PS-D15
C531	.01 600V		60P-2-103		DPMS6S1	PVC611	6PS-S10
C601	.001 2KV/N3300 10%	#250475-46	*			*	*
C603	.047 600V		60P-3-473		DPMS6S47	PVC6147	6PS-S47
C604	.1 600V		60P-4-104		DPMS6P1	PVC601	6PS-P10
C605	.01 1KV		CCD-103	DD-103	GP10000	JF110	10TS-S10
C606	.01 1KV		CCD-103	DD-103	GP10000	JF110	10TS-S10
C607	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C608	.001		CCD-102	DD-102	GP1000	GP210	10TS-D10
C609	.01 1KV		CCD-103	DD-103	GP10000	JF110	10TS-S10
C610	.001 1KV		CCD-102	DD-102	GP1000	GP210	10TS-D10
C611	.001 1KV		CCD-102	DD-102	GP1000	GP210	10TS-D10
C612	.001 1KV		CCD-102	DD-102	GP1000	GP210	10TS-D10
C613	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C615	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C701	3.3 NPO ±.25		CCD-103	DTZ-3R3	NP03P3	CN0533	10TCC-V33
C702	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C703	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C704	.0033 5%		CCD-332	DD-332	GP3300	JF233	10TS-D33
C705	3 N1500 10%	#250529-3099	*			*	*
C706	3 N1500 10%	#250529-3099	*			*	*
C707	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C708	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C709	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C710	.022						
C711	18 N150 5%	#250527-1805	*			*	10TCP-Q18
C712	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C713	.470		CCD-471	DD-471	GP470	GP347	10TS-T47
C714	.002 1KV		CCD-202	DD-202	GP2000	GP220	10TS-D20
C715	.1 400V		40P-3-104		DPMS4P1	PVC401	4PS-P10
C717	.47		CCTO-470		NP047	CN0447	10TCC-Q47
C720	.15 75V		40P-4-154		DPMS4P15	PVC6015	4PS-P16
C721	.033 100V		40P-2-333		DPMS6S33	PVC6133	4PS-S33
C722	.1 100V		10P-2-104		DPMS2P1	PVC101	225P10491WD3
C723	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C724	.0022 10%		CCD-222	DD-222	GP2200	GP222	10TS-D22
C725	150		CCD-151	DD-151	GP150	GP315	10TS-T15
C726	.470 N750		CCTN-471		N470		10TCU-T47
C727	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C728	120 N750		CCTN-121		N120		10TCU-T12
C729	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C730	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C732	.047 100V		10P-2-473		DPMS6S47	PVC1147	225P47391WD3
C733	.0022 10%		CCD-222	DD-222	GP2200	GP222	10TS-D22
C734	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C735	330 100V 5%		DM-15-331	CPR-330J	CD15F331J03	SX333	MS-333

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C736	.001		CCD-102	DD-102	GP1000	GP210	10TS-010
C737	.1	200V	2DP-3-104		DPMS2P1	PVC201	2PS-P10
C738	.390	10%	CCD-391	DD-391	GP390	GP339	10TS-T39
C739	.390		CCD-391	DD-391	GP390	GP339	10TS-T39
C741	.27	NPO	CCTO-270		NP027	CNO427	10TCC-Q27
C742	.18	NPO	CCTO-180		NP018	CND418	10TCC-Q18
C743	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C744	.330	N1500	*		*	*	10TCW-333
C745	.330	N1500	*		*	*	10TCW-333
C746	.330	N1500	*		*	*	10TCW-333
C747	.330	N1500	*		*	*	10TCW-333
C748	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C749	.1	100V	1DP-2-104		DPMS2P1	PVC101	225P10491WD3
C750	.3.9	NPO			NP03P9		10TCC-V39
C751	.3.9	NPO			NP03P9		10TCC-V39
C752	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C753	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C754	.220	N750	CCTN-221	DTN-220	N220	CN7322	10TCU-T22
C755	.15	NPO	CCTO-150	DTZ-15	NP015	CNO415	10TCC-Q15
C756	.82	NPO	CCTO-820	DTZ-82	NP082	CNO482	10TCC-Q82
C757	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C758	.15	NPO	CCTO-150	DTZ-15	NP015	CNO415	10TCC-Q15
C759	.150	10%	CCD-151	DD-151	GP150	GP315	10TS-T15
C760	.150	150V	DM-15-151	CPR-150J	CD15FD151J03	SK315	MS-315
C671	.18	NPO	CCTO-180		NP018	CNO418	10TCC-Q18
C762	.18	NPO	CCTO-180		NP018	CNO418	10TCC-Q18
C763	.100	NPO	CCTO-101	DTZ-100	NP0100	CNO310	10TCC-T10
C764	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C765	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C766	.01	1KV	CCD-103	DD-103	GP10000	JF110	10TS-S10
C767	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C768	.01	1KV	CCD-103	DD-103	GP10000	JF110	10TS-S10
C769	.12	NPO	CCTO-120	DD-103	NP012	CNO412	10TCC-Q12
C770	.01		CCD-103	DD-103	GP10000	JF110	10TS-S10
C771	.01	1KV	CCD-103	DD-103	GP10000	JF110	10TS-S10
C772	.470		CCD-471	DD-471	GP470	GP347	10TS-T47
C773	.047	400V	4DP-3-473		DPMS6S47	PVC4147	4PS-S47
C775	.1	400V	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C776	.0022	10%	CCD-222	DD-222	GP2200	GP222	10TS-022
C803	.056	400V	4DP-3-563		DPMS6S56	PVC6156	4PS-S56
C804	.12	200V	QMPD-3-124K				
C805	.12	200V	QMPD-3-124K				
C806	.22	200V	4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C808	.33	200V	2DP-5-334		DPMS2P33	PVC2033	2PS-P33
C809	.022	200V	4DP-2-223		DPMS6S22	PVC6122	4PS-S22
C810	.0047	600V	6DP-1-472		DMS6D47	PVC6247	6PS-D47

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R3	AFT Bias	5000	220217-16	TSV-5K or T-5000		X201R502B	MTC53L1
R105	Pincushion	60 2W	220181-16	WTS0,WSK104 or WBS0 or V-60(1)	U39-75 (1)	P115R500A, P115-117-1	MR50T,MR51250 or MR50B
R108	Horiz Hold	45K	220146-79	F1-50K,SN100 or TT-31	B47-50K-S or [NP-50K-S, NML-A-300,TT-2]	B11-123,TM4 or [BU11,CF12,SS6A]*	PTA54L or [RU54L, SL37,SN1000] or [UA54L,SN1000]
	Horiz Hold	45K	220146-69(5)	F1-50K,SNK010 or TT-31	B47-50K-S or [NP-50K-S, NML-A-300,TT-2]	B11-123,TM4 or [BU11,CF12,SS6A]*	PTA54L or [RU54L, SL37,SN1000] or [UA54L,SN1000]
R126	Vert Centering	10	220181-1	WT-10 or WB-10	U39-10 (1) or [NPW-10, NML-A-300,TT-2]	P115R100A or [W11-010,SK5] or [BU1,WF16,SS6A]*	MR10T or MR10B or VMTD
R131	Color Killer	1meg	220208-34	TT-69 or [F1-1meg, SNK010]	B47-1meg-S or [NP-1meg-S, NML-A-300,TT-2]	B11-137,TM4 or [BU11,CF17,SS6A]*	PTA16L or [RU16L, SL37,SN281] or [UA16L,SN281]
R132	Tone	3meg	220208-8	F2-3meg, SNK014	A47-3meg-Z, RN-3,TT-2 or [NP-3meg-Z, NML-A-300,TT-2]	B13-140,TM4 or [BU11,CF28,SS6A]*	RU36L,SL37,SN1000 or [UA36A,SN1000]
	Tone	3meg	220146-26(5)	F2-3meg, SNK010	A47-3meg-Z, RN-3,TT-2 or [NP-3meg-Z, NML-A-300,TT-2]	B13-140,TM4 or [BU11,CF28,SS6A]*	RU36A,SL37,SN1000 or [UA36A,SN1000]
R136	AGC	50K	220208-33	TT-31 or [F1-50K, SNK010]	B47-50K-S or [NP-50K-S, NML-A-300,TT-2]	B11-123,TM4 or [BU11,CF12,SS6A]*	PTA54L or [RU54L, SL37,SN281] or [UA54L,SN281]
R138	Sharpness	2500	220146-81	F2-2500, SNK012	B47-2500-Z	B13-111,TM4 or [BU11,CF85,SS6A]*	RU252A,SL37,SN750
R139	Remote Sensitivity	3meg	220208-51	F2-3meg, SNK010	A47-3meg-Z, RN-3,TT-2 or [NP-3meg-Z, NML-A-300,TT-2]	B13-140,TM4 or [BU11,CF28,SS6A]*	RU36A,SL37,SN281 or [UA36A,SN281] or U57

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R164	CRT Bias	2500,2W	220181-11	WT-2.5K or WB-2.5K	U39-3000 (1) or [NPW-3000, NML-A-300,TT-2]	P115R252A or [BU1,WF6,SS6A]*	MR2500T or MR2500B or VM2P5K
R172	Horiz Centering	10 2W	220181-12	WP15 (2) or V-10	U39-15 (3)	P115R100A (2)	MR15P (2)
R201	Adjacent Sound Reject	10K	220182-5				
R215	Sound Reject	750	220166-4	F1-750,SNK010, AK-40	NP-750-S, UP-N-007,TT-3	B11-105,TM9 or [BU11,CF5,SS6A,DC2]*	TRS751L
R401	Volume/Switch	1meg	220260-38	F2-1meg, SPU304,KR-BFR	C47S-1meg-Z,FS-3 or [NP-1meg-Z, UPB-B-400, PPAP,NWG-18]	B13-137,SK7 or [PPQ13-137,SK7] or [BU1,CF26,SS10,K]*	PP16A or [RUP16A, SL35,SL250] or [P16A,3014, FPP-1,SL250]
	Volume/Switch	1meg	220261-7 (5)				
	Volume/Switch	1meg	220261-12(5)				
	Color (Front)	500	220267-9 (5)				
R402	Volume/Switch (Rear)	1meg					
	Color	500	220232-44	F4-500,SN200		BU1,CF77,SS1,0C1*	UA751A,SN1250
R403	Color Tint	500	220267-20(5)				
	Tint	1200	220146-82	F5-1500,SNK010	NP-1200-V, NML-A-300,TT-2	B17-208,TM4 or [BU11,CF53,SS6A]*	RU122R,SL37,SN1000 or [UA152R,SN1000] or [P152R,SLF37, SF3000]
R404	Brightness	1200 1200 250K	220267-6 (5) 220267-19(5) 220146-49	TT-50 or [F1-250K, SNK010]	B47-250K-S or [NP-250K-S, NML-A-300,TT-2]	B11-130,TM4 or [BU11,CF15,SS6A]*	RU254L,SL37,SN1000 or [UA254L,SN1000] or SU46
	Brightness	250K	220232-19(5)	F1-250K,SN200	A47-250K-S,FS-3 or [NP-250K-S, UP-B-400]	Q11-130 or [BU1,CF15,SS1,0C1]*	UA254L,SN1250 or [RU254L,SL38, SN1250] or U46
R405	Contrast	600	220146-83	F5-750,SNK010	NP-750-V, NML-A-300,TT-2	B17-105,TM4 or [BU11,CF36,SS6A]*	UA751R,SN1000 or [RU52R,SL37,SN1000] or [P751R,SLF37, SF3000]
	Contrast	600	220146-29(5)	TT-411 or [F1-750, SNK010]	B47-750-S or [NP-750-S, NML-A-300,TT-2]	B11-105,TM4 or [BU11,CF5,SS6A]*	PTA751L or [RU751L, SL37,SN1000] or [UA13L,SN1000]
R408	Vert Hold	250K	220146-49	TT-50 or [F1-250K, SNK010]	B47-250K-S or [NP-250K-S, NML-A-300,TT-2]	B11-130,TM4 or [BU11,CF15,SS6A]*	RU254L,SL37,SN1000 or [UA254L,SN1000] or SU46
R608	High Voltage	500K	220166-26	F1-500K, SNK010,AK-40	NP-500K-S, UP-N-007,TT-3	B11-133,TM9 or [BU11,CF16,SS6A,DC2]*	TRS55L
R612	Vert Linearity	500K	220166-39	F1-500K, SNK100,AK-40	NP-500K-S, UP-N-100,TT-3	B11-133,TM9 or [BU11,CF16,SS6A,DC2]*	TRS55L
R619	Height	3.4meg	220166-40	F1-4meg, SNK100,AK-40	NP-4meg-S, UP-N-100,TT-3	B11-240,TM9 or [BU11,CF21,SS6A,DC2]*	TRS36L
R620	Green Drive	9000	220166-23	F1-10K, SNK100,AK-40	NP-10K-S, UP-N-100,TT-3	B11-116,TM9 or [BU11,CF9,SS6A,DC2]*	TRS26L
R621	Blue Drive	9000	220166-24	F1-10K, SNK100,AK-40	NP-10K-S, UP-N-100,TT-3	B11-116,TM9 or [BU11,CF9,SS6A,DC2]*	TRS26L
R622	Red Drive	9000	220166-37	F1-10K, SNK100,AK-40	NP-10K-S, UP-N-100,TT-3	B11-116,TM9 or [BU11,CF9,SS6A,DC2]*	TRS26L
R624	Blue Screen	1.5meg	220166-17	F1-1.5meg, SNK104,AK-40		B11-138,TM9 or [BU11,CF18,SS6A,DC2]*	TRS26L
R625	Green Screen	1.5meg	220166-16	F1-1.5meg, SNK104,AK-40		B11-138,TM9 or [BU11,CF18,SS6A,DC2]*	TRS26L
R626	Red Screen	1.5meg	220166-18	F1-1.5meg, SNK104,AK-40		B11-138,TM9 or [BU11,CF18,SS6A,DC2]*	TRS26L
	Chromatone	270K	220193-24(6)	TSV-250K (4) T-250K (4) T-750 or TSV-1K		X201R254B	MTC254L4
R738	Chroma T. H.	750	220217-10	T-750 or TSV-1K		X201R751B	MTC751L1
R804	R-G Vert Lines (Left) (R-G Master Tilt)	120 2W	220167-13	WCP-120 or V-120	U39-125	110C120	MRC120P
R805	R-G Horiz Lines(Left) (R-G Diff. Tilt)	120 2W	220167-13	WCP-120 or V-120	U39-125	110C120	MRC120P
R308	Blue Horiz Lines Bottom (Blue Ampl.)	30 2W	220167-11	WCP-30 or V-30	U39-50	110C30	MRC30P
R811	R-G Vert Lines,Bottom (R-G Master Ampl.)	120 2W	220167-13	WCP-120 or V-120	U39-125	110C120	MRC120P
R812	R-G Horiz Lines,Bot. (R-G Diff. Ampl.)	150 2W	220167-12	WCP-150 or V-150	U39-150	110C150	MRC150P
R813	R-G Horiz Lines, Top (R-G Diff. Tilt)	30 2W	220167-11	WCP-30 or V-30	U39-50	110C30	MRC30P
R814	R-G Vert Lines, Top (R-G Master Tilt)	60 2W	220167-10	WCP-60 or V-60	U39-75	110C60	MRC60P