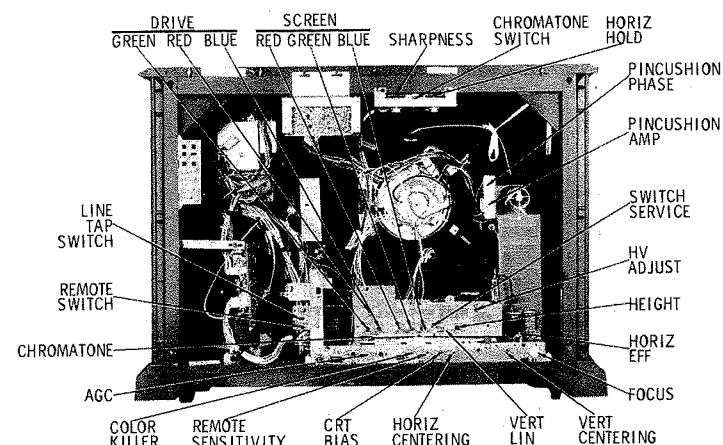


## CABINET—REAR VIEW



## DISASSEMBLY INSTRUCTIONS

### CHASSIS REMOVAL

Remove nine screws and turn plastic tabs holding back cover.

Disconnect picture-tube socket, high-voltage anode lead, yoke plug, convergence-yoke plug, degaussing coil, three remote-receiver connectors, speaker leads, and tuner-assembly connectors. Unsolder IF cable plug.

Remove two screws holding rear control panel. Remove two screws securing chassis. Slide chassis back and remove it from the cabinet.

Remove all knobs and disconnect antenna leads from tuners. Remove four screws securing tuner assembly and remove assembly from cabinet.

Disconnect remote receiver transducer and remove four screws securing remote receiver to cabinet.

### PICTURE TUBE REMOVAL

See "Chassis Removal" instructions. Lay set face down on a soft protective surface.

Remove purity ring and blue-lateral assembly, convergence assembly and deflection yoke.

Remove four springs supporting deflection-yoke mounting bracket and remove bracket. Remove four screws securing degaussing shield and remove shield. Remove four bolts securing picture tube mounting brackets and remove picture tube. Do not lift picture tube by the neck.

## SERVICING IN THE FIELD

### CRT IMPLOSION PROTECTION AND CLEANING

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

### FUSE DEVICES

A circuit breaker is used for low-voltage power-supply protection. (See photo "Chassis--Bottom View" for location of all fuse devices.)

A 5-amp fuse is used for AC line protection.

Seven and twenty-five amp fuses are used for filament protection.

### 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".)

Coarse adjustment of the horizontal hold is accomplished by the proper setting of the horizontal waveform coil. (See "Tube Placement Chart".)

### WIDTH

No provision is made to vary the width on this receiver.

### FOCUS

The focus may be varied by means of a focus control. The focus adjustment is provided with an eccentric type lock which must be released by turning shaft counterclockwise. To reset the focus lock, turn it clockwise.

### AGC

The AGC may be varied by means of an AGC control. (See "Cabinet--Rear View" photo.)

### CENTERING

Horizontal centering is accomplished by proper adjustment of the horizontal centering control. (See "Tube Placement Chart".)

Vertical centering is accomplished by proper adjustment of the vertical centering control. (See "Tube Placement Chart".)

SET 1253 FOLDER 2

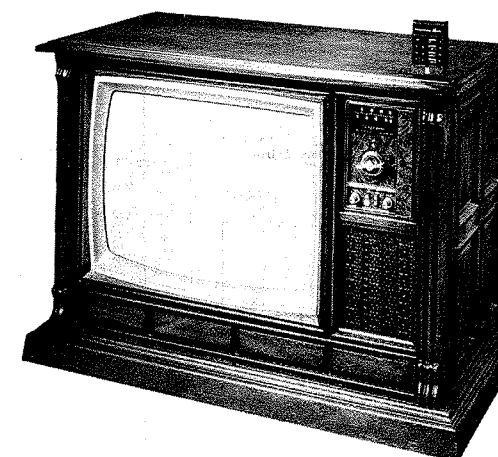
## PHOTOFACT® Folder

with CIRCUITRACE®

For Supplier Address See PHOTOFACT Index

MAGNAVOX  
CHASSIS T962 SERIES

COLOR TV



REPRESENTATIVE MODEL USING CHASSIS T962-02-AB

## 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?"

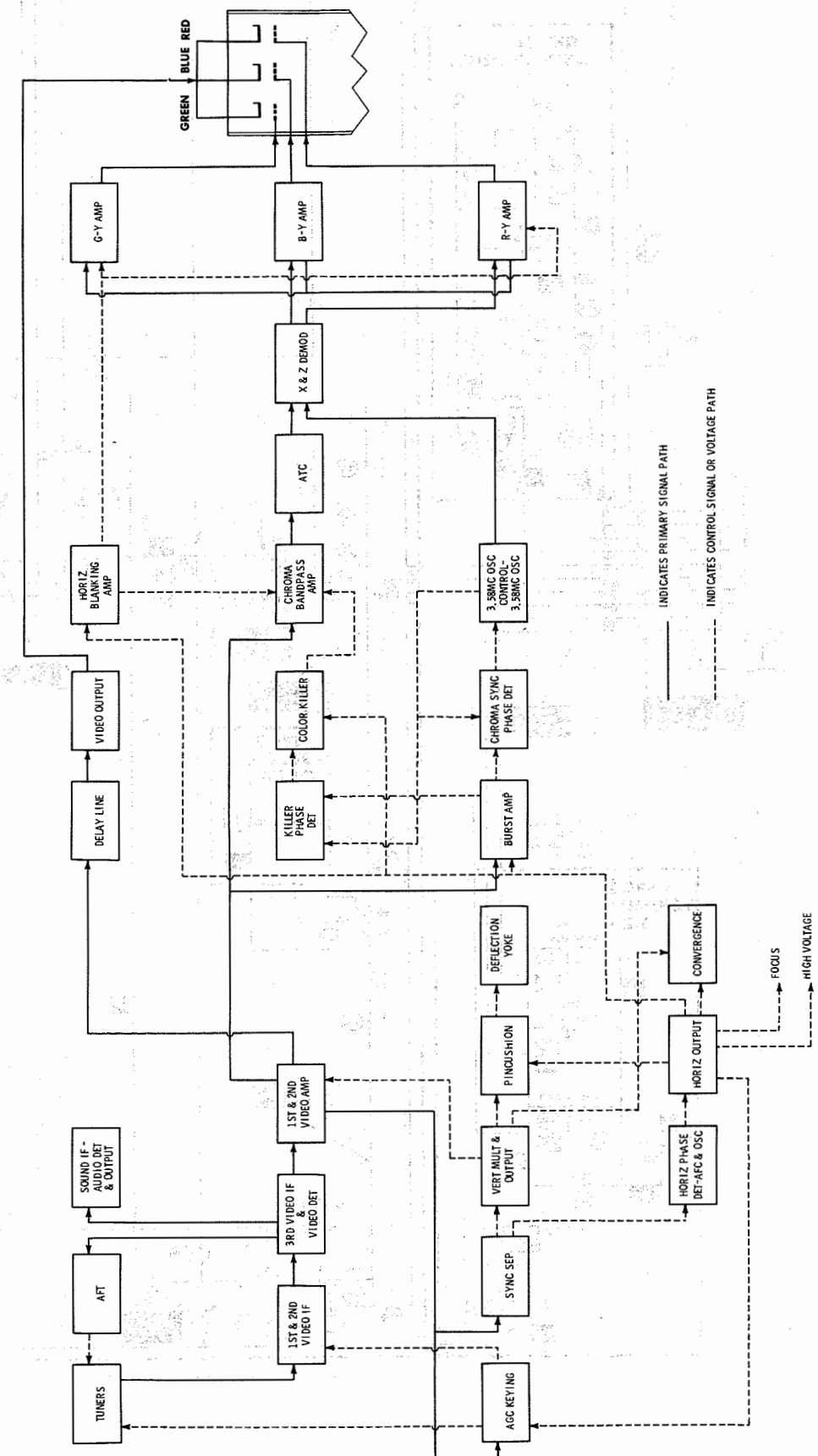
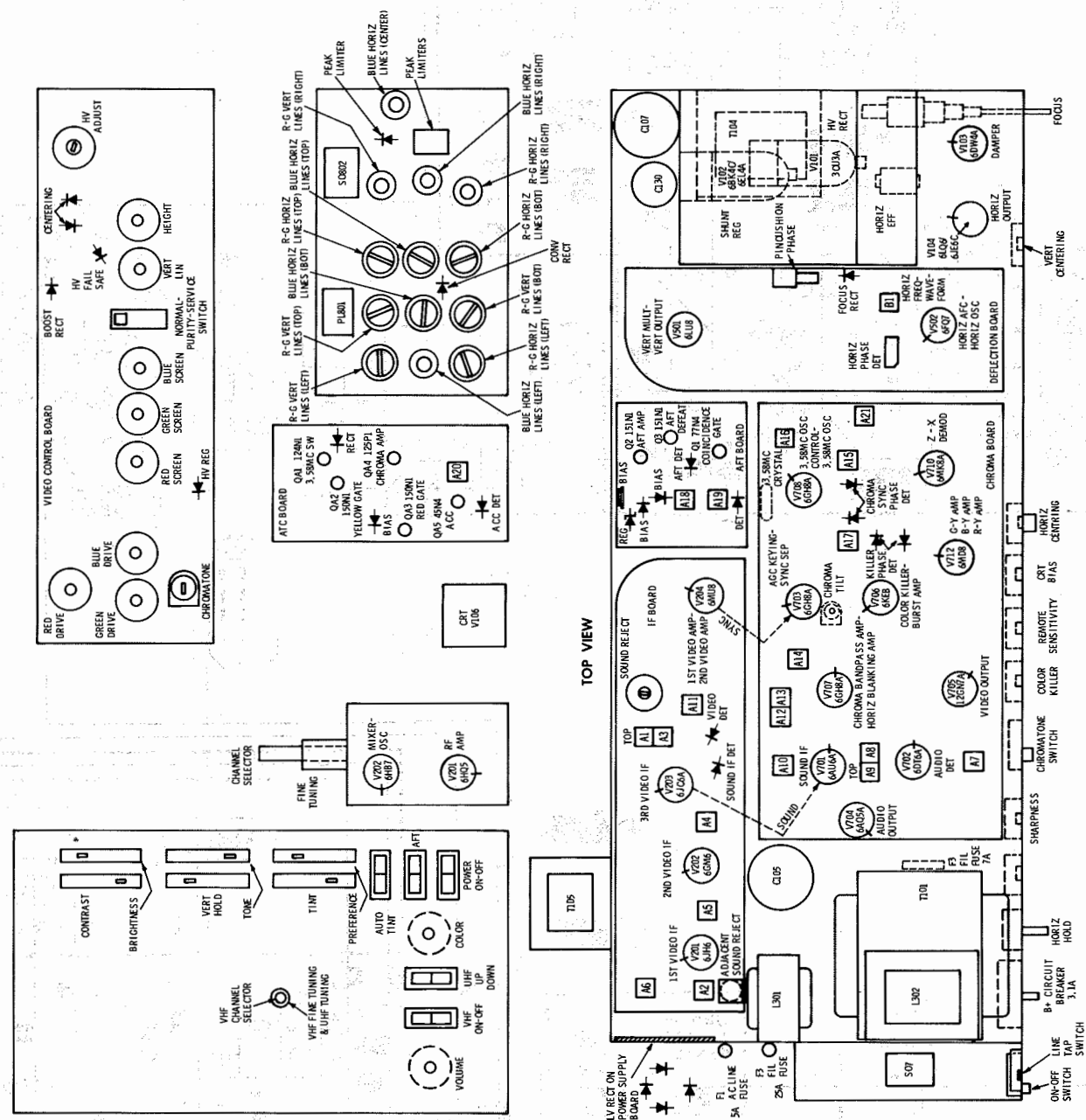
HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206

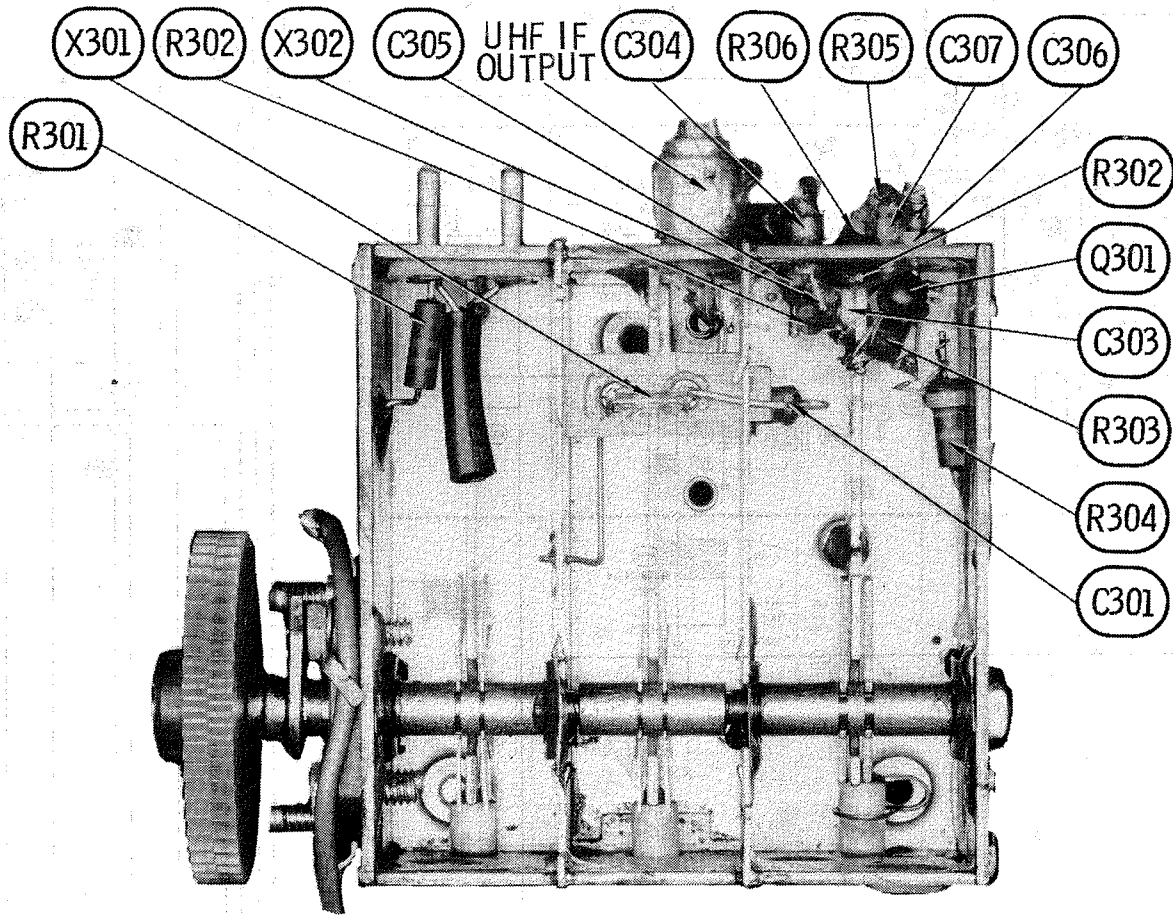
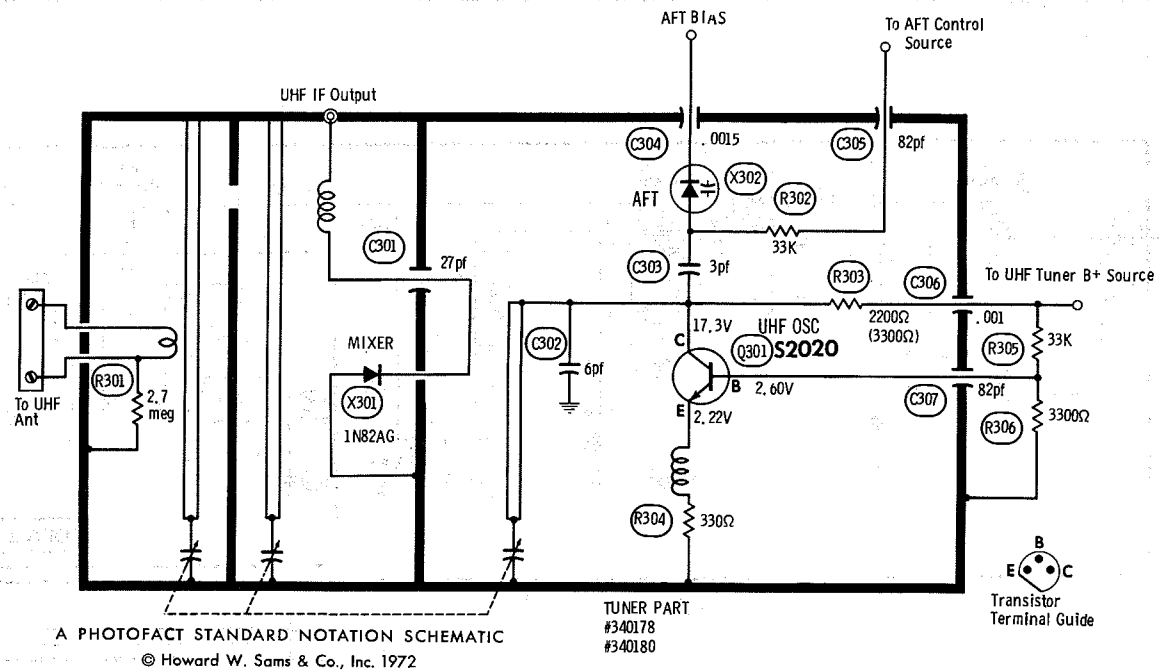
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. 2PB435

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DATE 6-72

SET 1253 FOLDER 2





UHF TUNER 340178-2, 340180-2

## VHF TUNER PARTS LIST AND DESCRIPTION

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

### TUBES

AMPEREX		GENERAL ELECTRIC		RCA		SYLVANIA	
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE	
V201	RF Amp	6HQ5		V202	Mixer - Oscillator	6HB7A	

### SEMICONDUCTORS

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA				
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.
X201		171088-1 (1)					

(1) Varactor

### CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.
C201	15pf	N330					
C202	15pf						
C203	.5-4.5pf						
C204	30pf						
C205	.5-4.5pf						
C206	.001						
C207	1.2pf						
C208	1.2pf						
C209	18pf						
C210	.5-4.5pf						
C211	.001						
C212	7.5pf	N470					
C213	6.8pf						
C214	.001						
C215	.001						
C216	.001						
C217	.001						
C218	.001						
C219	.001						
C220	.001						

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

### MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
PC201	Component Combination		Antenna Input (27pf, 27pf, 27pf, 27pf)

## UHF TUNER PARTS LIST AND DESCRIPTION

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

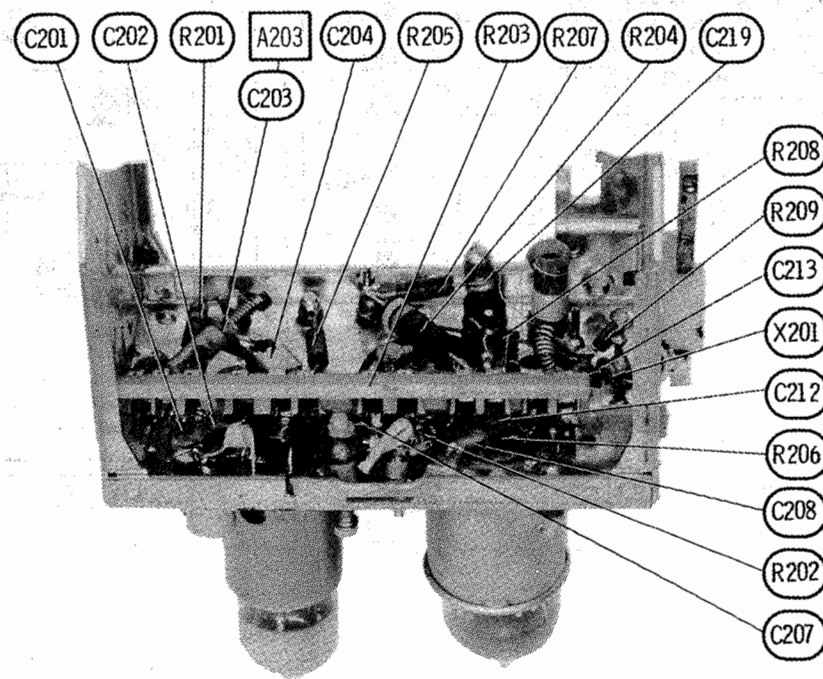
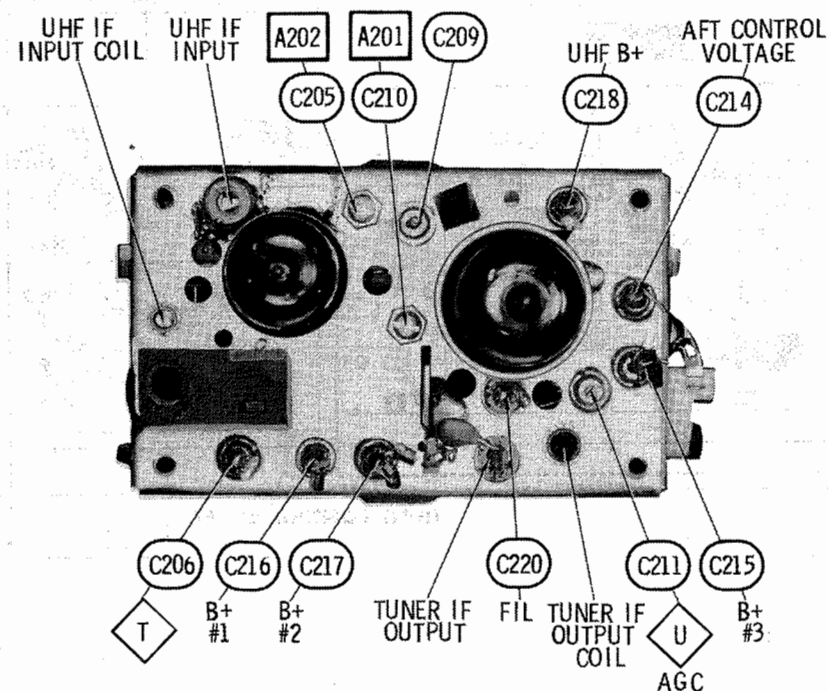
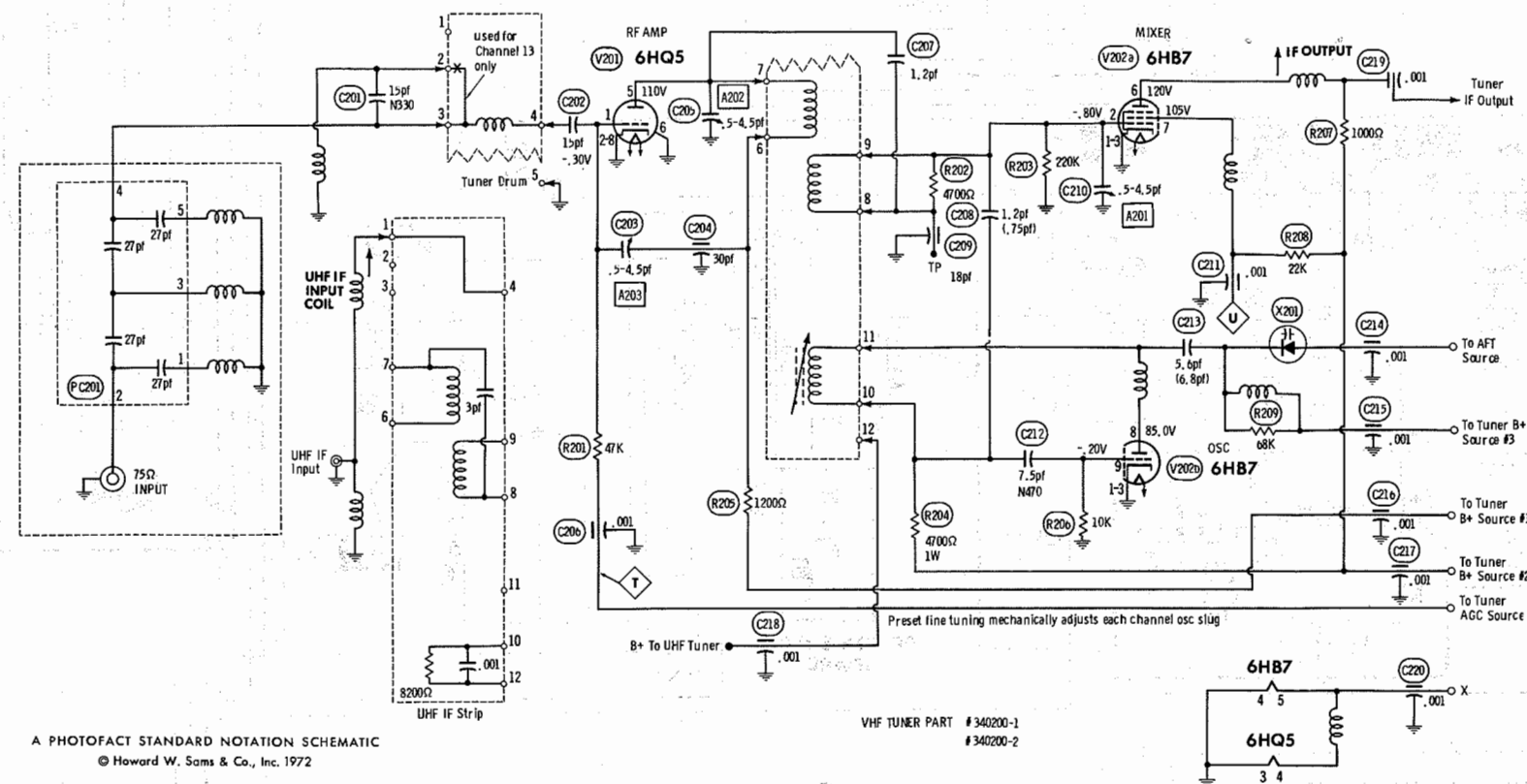
### SEMICONDUCTORS

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA				
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.
Q301	S2020	170906-1	GE-11 1N82A	TR-22 1N82AG	PTC115	SK3019 SK3089	ECG 108 ECG 112
X301	1N82AG						
X302		171090-1 (1)					

(1) Varactor

### CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.
C301	27pf						
C302	6pf						
C303	3pf						
C304	.0015						
C305	82pf						
C306	.001						
C307	82pf						



VHF TUNER 340200-1, 340200-2

## VHF TUNER ALIGNMENT INSTRUCTIONS

### OSCILLATOR ADJUSTMENTS VHF TUNER 340199-1

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

### RF AND MIXER ADJUSTMENTS

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  $\diamond$ . Adjust bias to obtain response curve showing no overload.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point $\diamond$ , low side to ground.	Expand or compress appropriate coils for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
12 thru 2	Vertical input to Point $\diamond$ , low side to ground.	Check all channels and make compromise adjustments by expanding or compressing appropriate coils if necessary.

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

## VHF TUNER ALIGNMENT INSTRUCTIONS

### Suggested Alignment Tools:

A201, A202, A203 .. GC ELECTRONICS: 8868, 8987, 9089

### OSCILLATOR ADJUSTMENTS VHF TUNERS 340200-1, 340200-2

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

### RF AND MIXER ADJUSTMENTS

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  $\diamond$ . Adjust bias to obtain response curve showing no overload.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point $\diamond$ , low side to ground.	Adjust A201 and A202 for maximum gain and symmetry of response similar to Fig. 201 with markers as shown.
10	Across video detector load resistor.	Increase bias to -15 volts and adjust A203 for MINIMUM amplitude of response.
12 thru 2	Vertical input to Point $\diamond$ , low side to ground.	Decrease bias. Check all channels and make compromise adjustments by expanding or compressing appropriate coils if necessary.

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

340179-1

340181-1

## UHF TUNER ALIGNMENT INSTRUCTIONS

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

340178-2

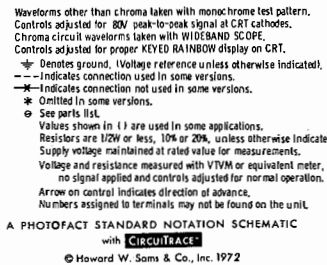
340180-2

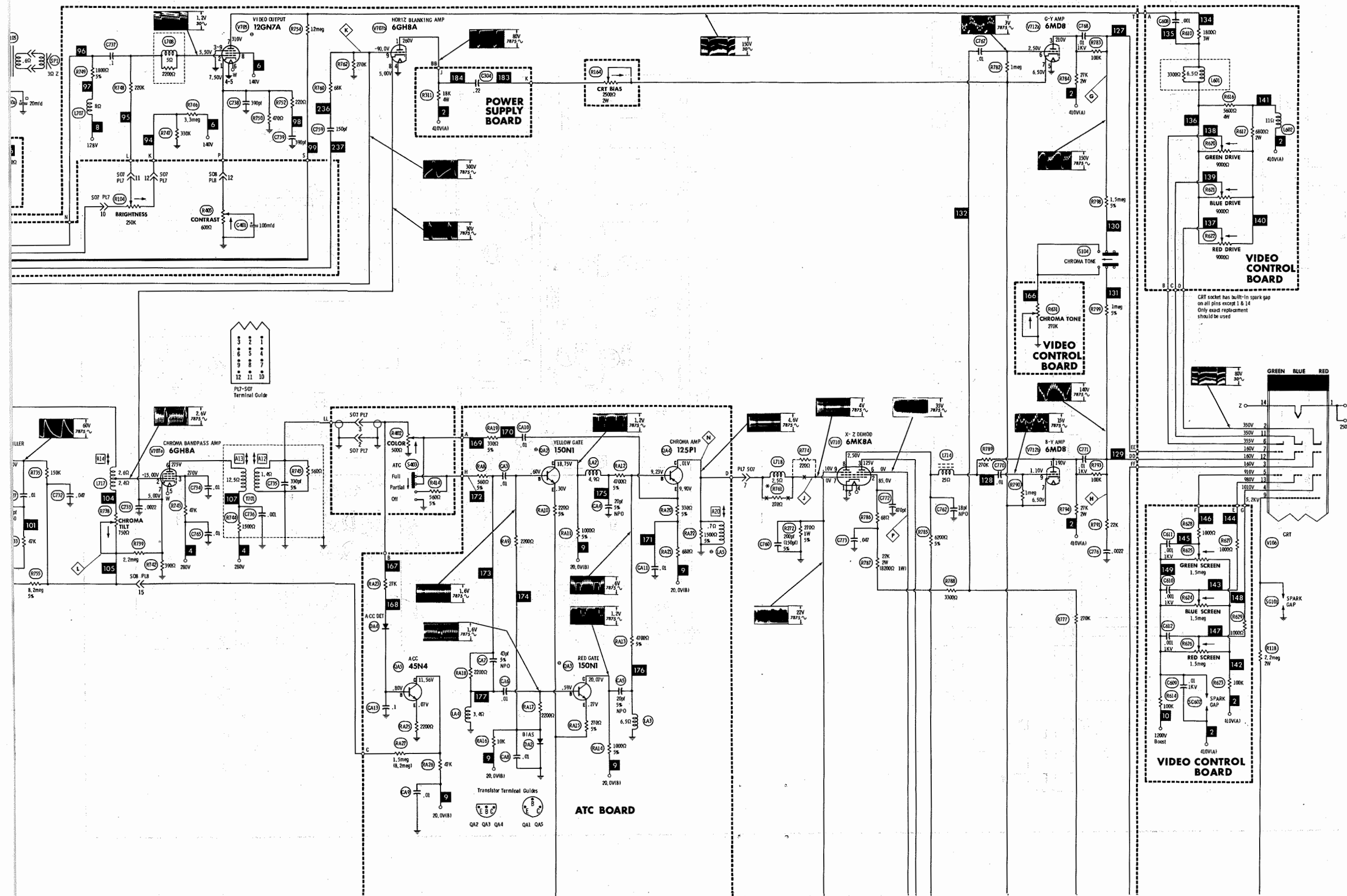
## UHF TUNER ALIGNMENT INSTRUCTIONS

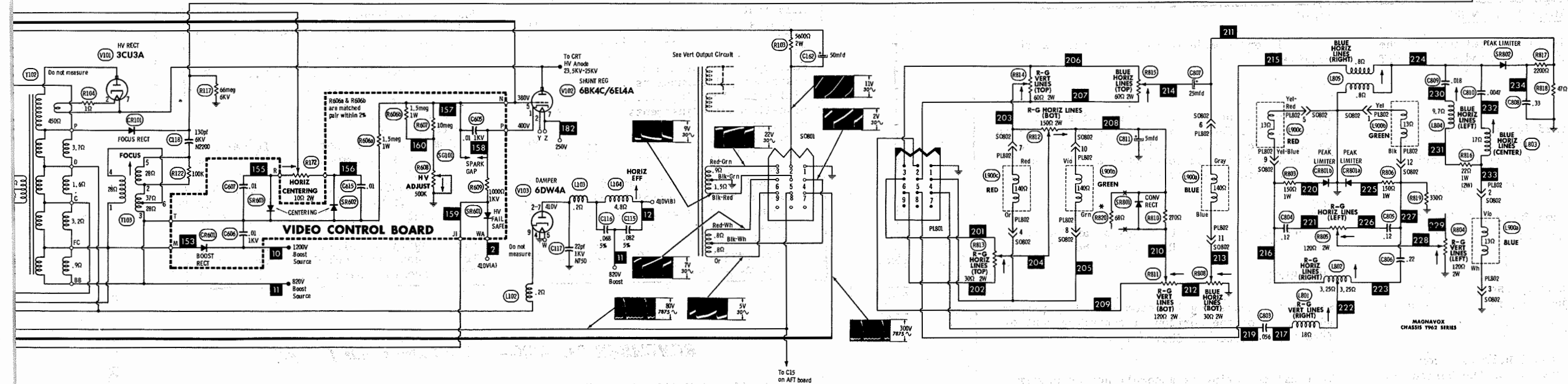
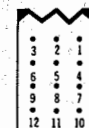
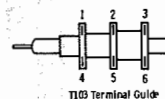
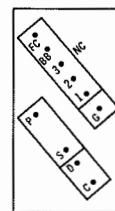
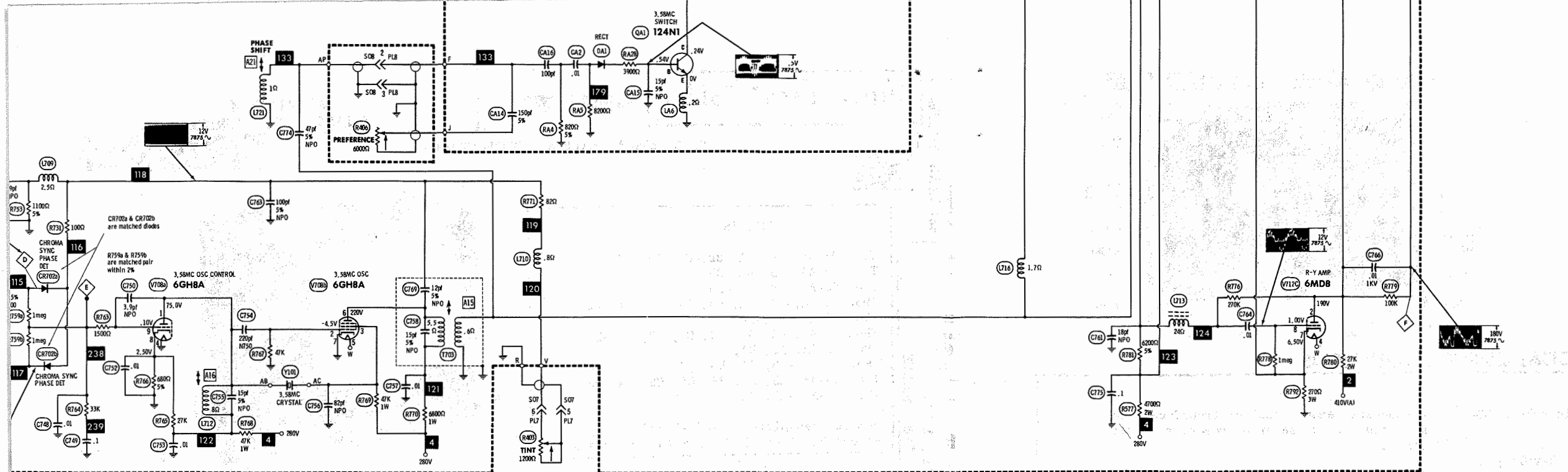
Select the lowest active UHF channel. Adjust the UHF oscillator trimmer for best picture and sound.













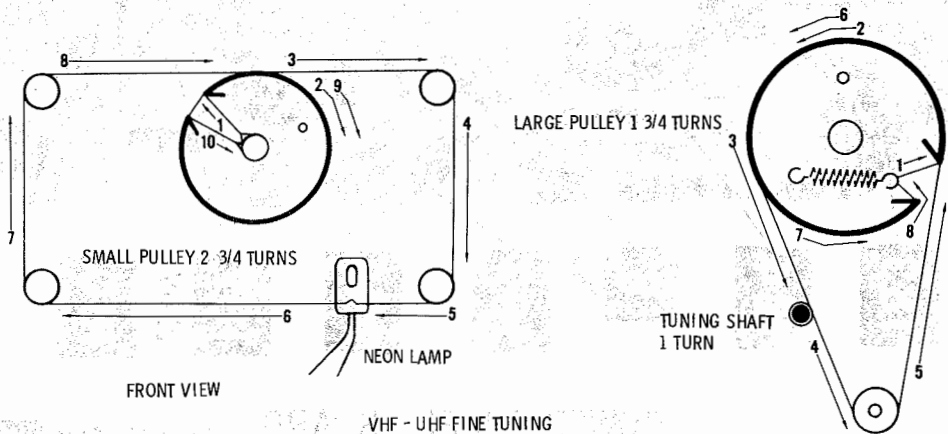
RESISTANCE MEASUREMENTS

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
V101	PINS 1 THRU 8 HAVE INFINITE RESISTANCE												650Ω †
V102	2000Ω* †	FIL	NC	NC	1.5meg	NC	FIL	NC					INF
V103	NC	20Ω †	NC	FIL	FIL	NC	20Ω †	NC	1.2meg				
V104	15K †	4meg*	0Ω	FIL	FIL	4meg*	15K †	1550Ω					3Ω †
V106	FIL	1meg †	127K †	1.7meg†	1.7meg†	1meg†	127K†	NC	68meg	NC	1meg†	127K†	1.7meg†
V201	220K	1500Ω	FIL	FIL	225Ω▲	225Ω▲	1500Ω						PIN 14 FIL
VHF V201	313meg	0Ω	FIL	FIL	11K †	0Ω	0Ω						
VHF V202	0Ω	220Ω	0Ω	FIL	FIL	2600Ω†	26K†	8000Ω†	10K				
V202	80K †	INF	FIL	FIL	3400Ω†	3400Ω†	75Ω▲						
V203	180Ω	0Ω	180Ω	FIL	FIL	TP	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	32K†	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	10K†	8000Ω†	FIL	FIL	.5Ω	4Ω	8500Ω†	2.3Ω				
V712	30K†	30K†	30K†	FIL	FIL	1meg	270Ω	1meg	1meg				

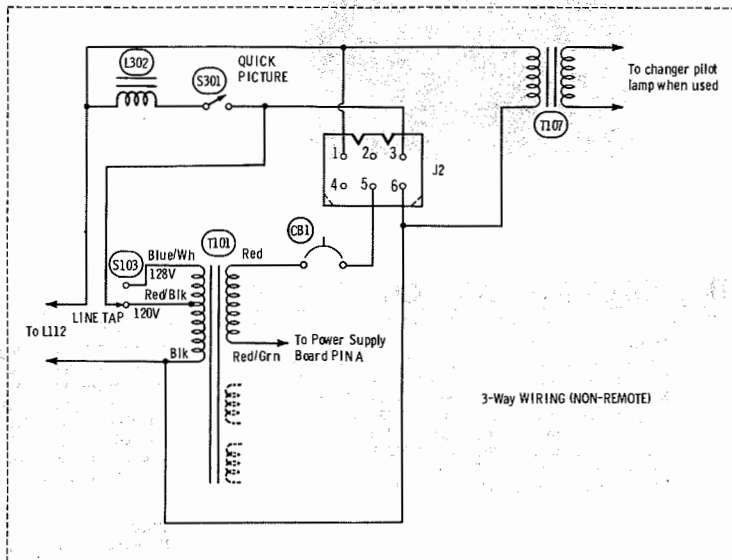
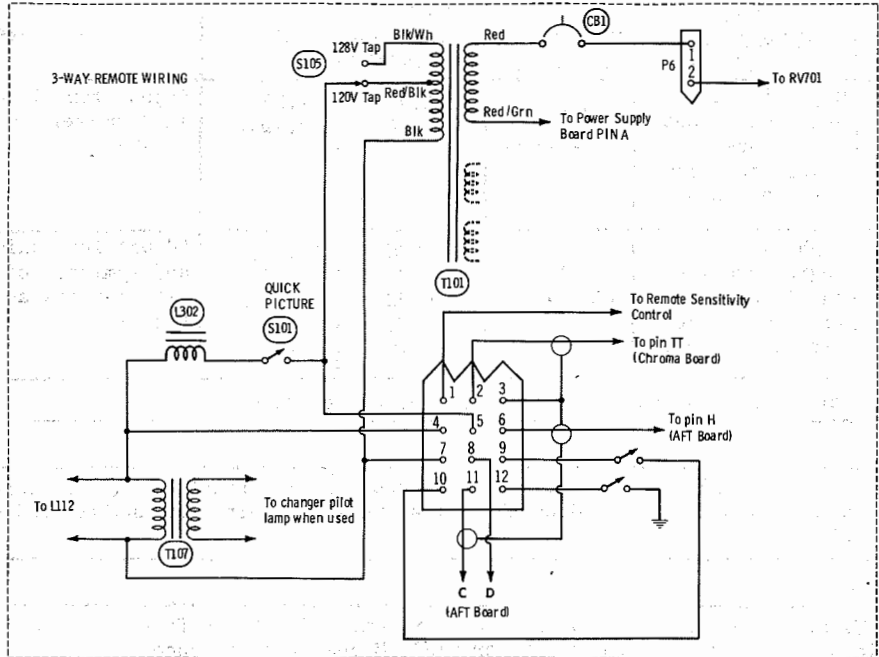
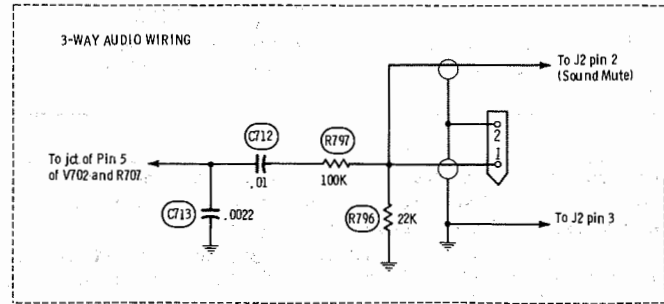
MEASUREMENTS BELOW TAKEN WITH METER HAVING .08V MAX BETWEEN PROBE TIPS

ITEM	E	B	C		ITEM	E	B	C		ITEM	E	B	C
QA1	.50Ω	INF	INF		Q301	330Ω	3300Ω	13K					
QA2	INF	13K	2200Ω		Q1	0Ω	470Ω	INF					
QA3	INF	13K	2800Ω		Q2	100Ω	500K	100K					
QA4	2800Ω	2800Ω	1Ω		Q3	100K	500K	1800Ω					
QA5	2200Ω	INF	45K										

† MEASURE FROM THE CATHODE OF SR302 AND SR303  
\* MEASURE FROM PIN 9 OF V103  
NC NO CONNECTION  
▲ MEASURE FROM 2ND VIDEO IF, PIN 2 OF V202  
\* READING DEPENDS ON POLARITY OF METER CONNECTIONS.  
TP TIE POINT



DIAL CORD STRINGING



A PHOTOFAC STANDARD NOTATION SCHEMATIC  
© Howard W. Sams & Co., Inc. 1972

## TV ALIGNMENT INSTRUCTIONS

Use an isolation transformer, or observe polarity, and maintain line voltage at 117VAC.  
Allow a 20-minute warm-up period for the receiver and test equipment.  
Suggested Alignment Tools:

GC ELECTRONICS  
A1 thru A20 ..... 8606, 8606L, 8869  
Tuner IF Output Coil ..... 9296, 9297, 9300

### 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 that shown.  
Connect a variable bias supply to the IF AGC line (Point A) and adjust to obtain a response curve which shows no indication of overload. Disable oscillator section of mixer-oscillator.  
Set the channel selector to any non-interfering channel.

Remove horizontal output tube and connect 1500-ohm, 100W resistor from 410V source to ground.

INDICATOR	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
Vertical input of scope to Point B, low side to ground.	High side to ungrounded tube shield over Mixer-Osc., low side to ground.	44MC (10MC Sweep)	41.25MC 47.25MC	A1,R215 A2,R201	Adjust for MINIMUM with markers as shown in Fig. 1
Vertical input of scope to Point B, low side to ground.	High side to ungrounded tube shield over Mixer-Osc., low side to ground.	44MC (10MC Sweep)	41.25MC 42.17MC 44.00MC 45.75MC 47.25MC	A3,A4, A5,A6, Tuner IF Output Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 1.

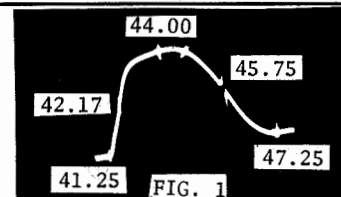
NOTE: It is convenient to perform AFT Alignment before continuing.

### 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.

### 4.5MC TRAP ALIGNMENT

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

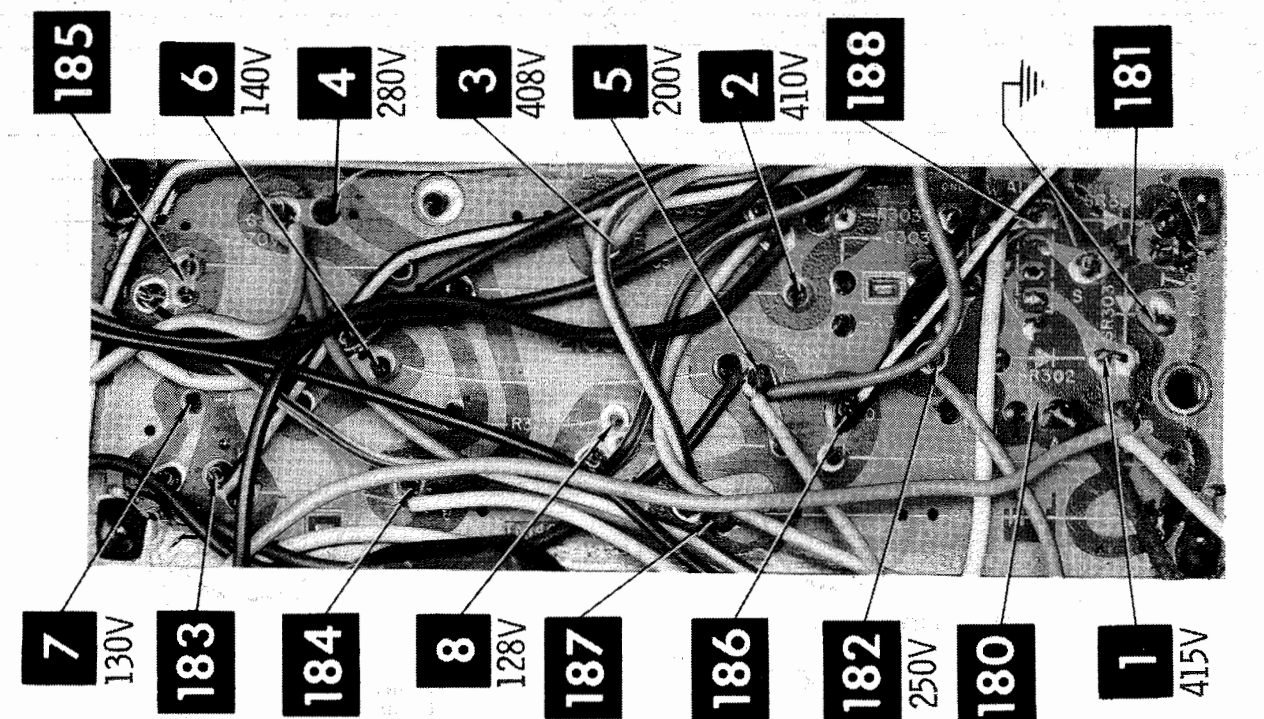
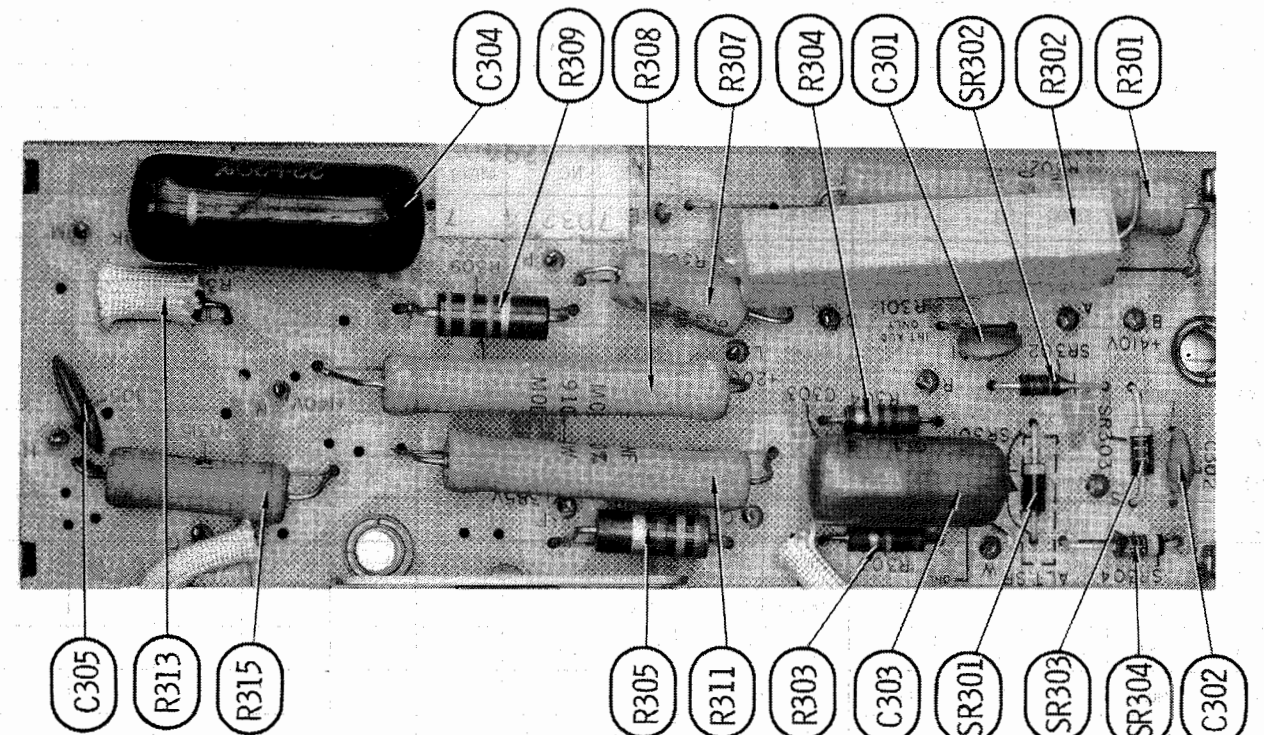


## TROUBLESHOOTING CHECK CHART

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

SWEEP	PICTURE or SOUND	COLOR (B/W operating normally)
No raster, has sound V502,V104,V103,V102,V101, V106	No pic, no sound, no raster F1,F2,F3,CB1,SR301 thru SR304,V103	No color V706,CR701,QA2,QA3,QA4,V707
No vert. deflection V501	No pic, no sound, has raster V201,V202,V203,V202(1)	Weak color V707,QA2,QA3,QA4
Poor vert. lin. or foldover V501	No pic, no sound, has snow V201(1),V202(1),V203(1)	No color sync V706,V708,CR702
Poor horiz. lin. or foldover V103,V104	No pic, has sound, no raster V705,V106	No blue V710,V712
Narrow picture SR301 thru SR304,V502,V104,V103	No pic, has sound, has raster V204,V705	No red V710,V712
Vert. off freq. V501	Has pic, no sound D201,V701,V702,V704	Incorrect hue (tint) V706,CR701, CR702,V707,QA2,QA3,QA4
Horiz. off freq. V502,SR501	Overloaded picture V703,D202	
	Low or excessive brightness V707	
	Poor focus CR101	
RASTER	SYNC	
Yellow - no blue V712, V106	No vert. sync V501	
Cyan - no red V712,V106	No horiz. sync V502,SR501	
Magenta - no green V712,V106	No vert. or horiz. sync V703	

(1) In VHF Tuner



POWER SUPPLY BOARD

A Howard W. Sams CIRCUITRACE® Photo

## MISCELLANEOUS ADJUSTMENTS (Continued)

When proper tracking is accomplished, turn brightness and contrast controls fully clockwise and advance 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.

### AUTOMATIC TINT CONTROL ADJUSTMENT

Suggested Alignment Tools:

GC ELECTRONICS  
A20 ..... #8606, 8606L, 8869  
A21 ..... #9296, 9297, 9300

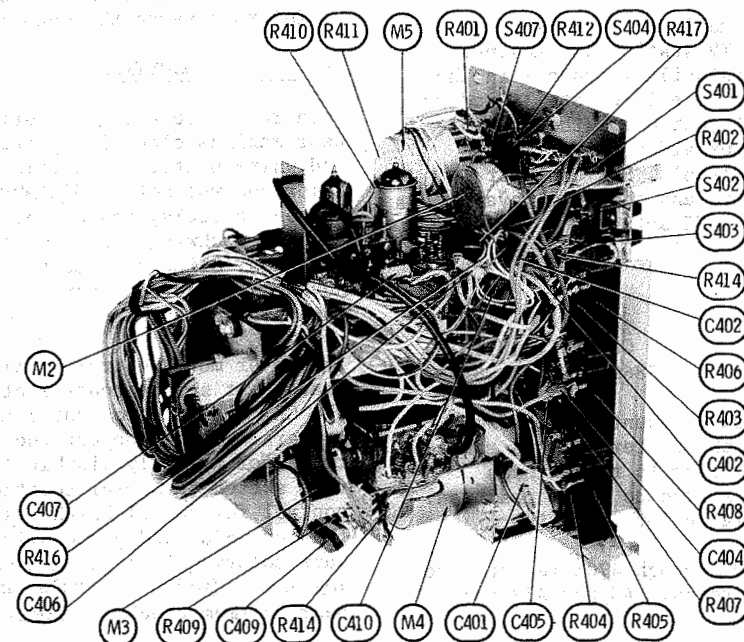
Connect a color-bar generator to the antenna terminals (85% modulated). Adjust receiver for normal color reception. Slide ATC switch to "Off" position. Connect a VTVM through a detector probe in series with a 10K resistor to Point  $\diamond$ . Adjust A20 for maximum voltage.

Preference Control Centering: Push ATC switch to "Off" position and adjust set for normal color reception. Adjust the tint control for fleshtones and mechanically center the preference control. Push ATC switch to "On" position. Adjust A21 for pleasing fleshtones.

### 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 normal crosshatch pattern. Adjust the Pincushion Phase coil (L111) for straight horizontal lines at top and bottom of the screen. Repeat the above steps if necessary.



TUNER ASSEMBLY

### REMOTE CONTROL SENSITIVITY ADJUSTMENT

This adjustment 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. Refer to "Remote Control Receiver Alignment".

### AFT ALIGNMENT (VTVM)

With AFT Defeat switch in "On" position, connect a VTVM across AFT Defeat switch. Ground test point  $\diamond$  and push Service switch to "Purity" position. Adjust AFT Bias control for zero volts on the VTVM. Push Service switch to normal position. Push AFT Defeat switch to "Off" position and manually adjust the fine tuning on a station signal. Push AFT Defeat switch to "On" position and adjust A18, L1 for zero volts on VTVM. Adjust the pre-set fine tuning of all active VHF channels for zero volts on VTVM. Disconnect short from test point  $\diamond$  on non-remote versions. Connect VTVM (DC scale) high side to test point  $\diamond$ , of Q22, low side to ground. \*Adjust A19, L2, 45.75MC Detector coil for maximum (if there are two points of resonance, adjust with the slug positioned farthest from the Board. \*Connect VTVM (DC scale) high side to test point  $\diamond$ , collector of Q22, low side to ground. \*Check for cut-off voltage (20-25 volts) when tuned off station and saturation voltage (zero volts) when tuned on station. Disconnect short from test point  $\diamond$ .

NOTE: The Horizontal Hold control must be adjusted to lock in on all channels. If it is misadjusted, the Coincidence Gate, Q1 on the AFT Board, will not operate the sync gate circuits correctly, resulting in the skipping of stations during search.

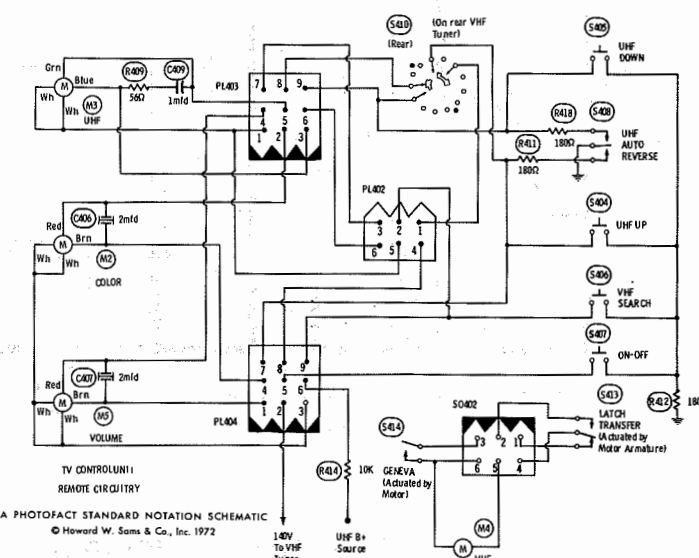
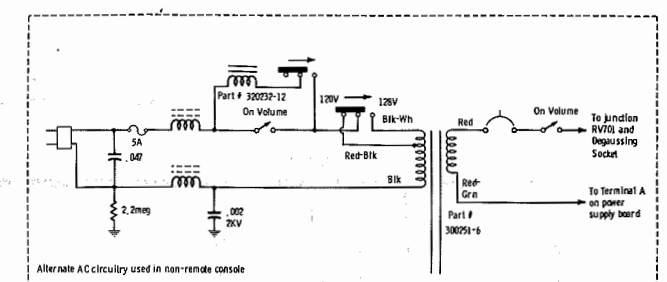
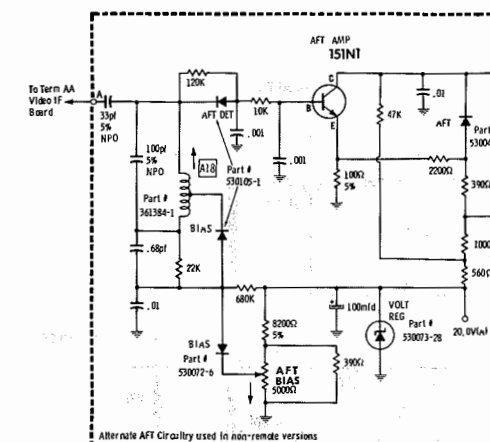
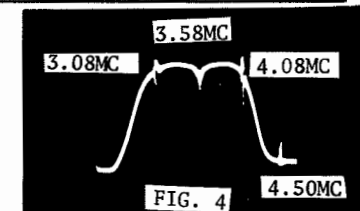
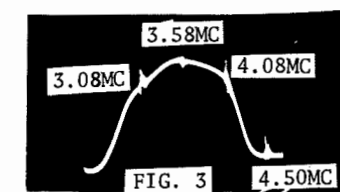
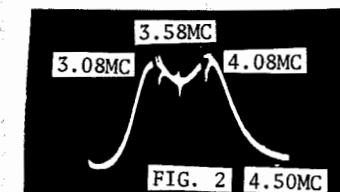
\* Delete these steps and note for non-remote versions.

## TV ALIGNMENT INSTRUCTIONS (Continued)

### CHROMA BANDPASS ALIGNMENT

Switch automatic tint control to Off position. Connect a -40 volt supply to Point  $\diamond$ , a -2 volt supply to Point  $\diamond$ , and a -2 volt supply to Point  $\diamond$ , positive of all supplies to ground. Connect a variable bias supply to IF AGC Point  $\diamond$  and adjust to obtain a response curve which shows no indication of overload. Turn the color intensity to maximum. Remove the horizontal output tube and connect a 1500-ohm, 100W resistor from 410V source to ground. Set chroma tilt control, R738, to position of maximum resistance. Use any non-interfering channel.

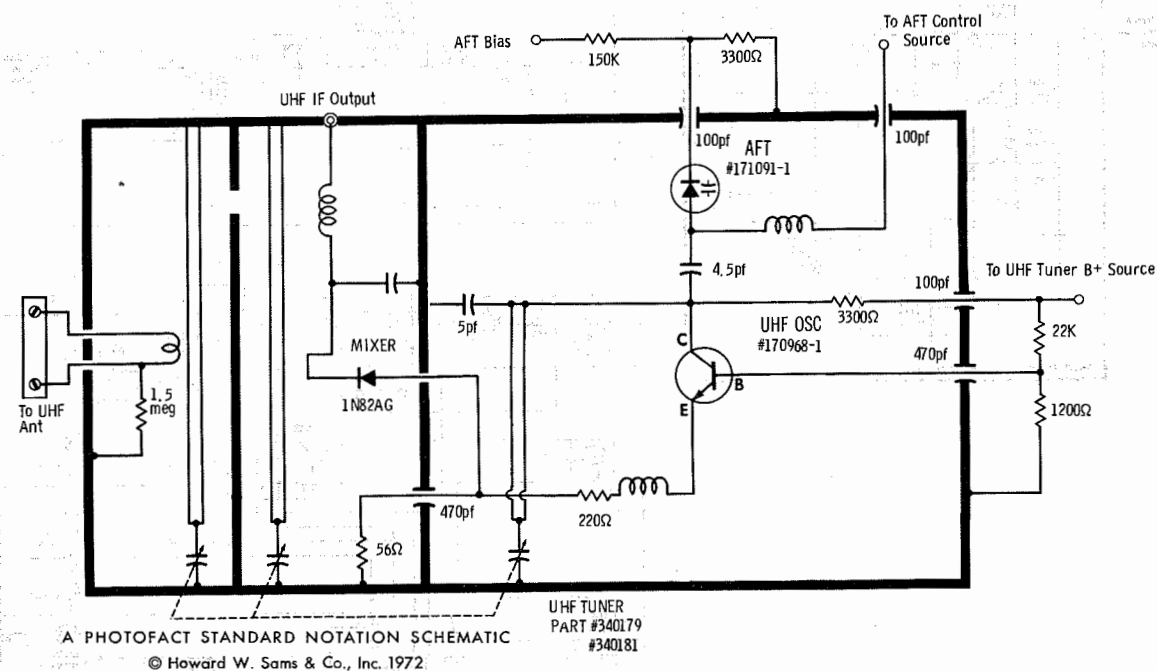
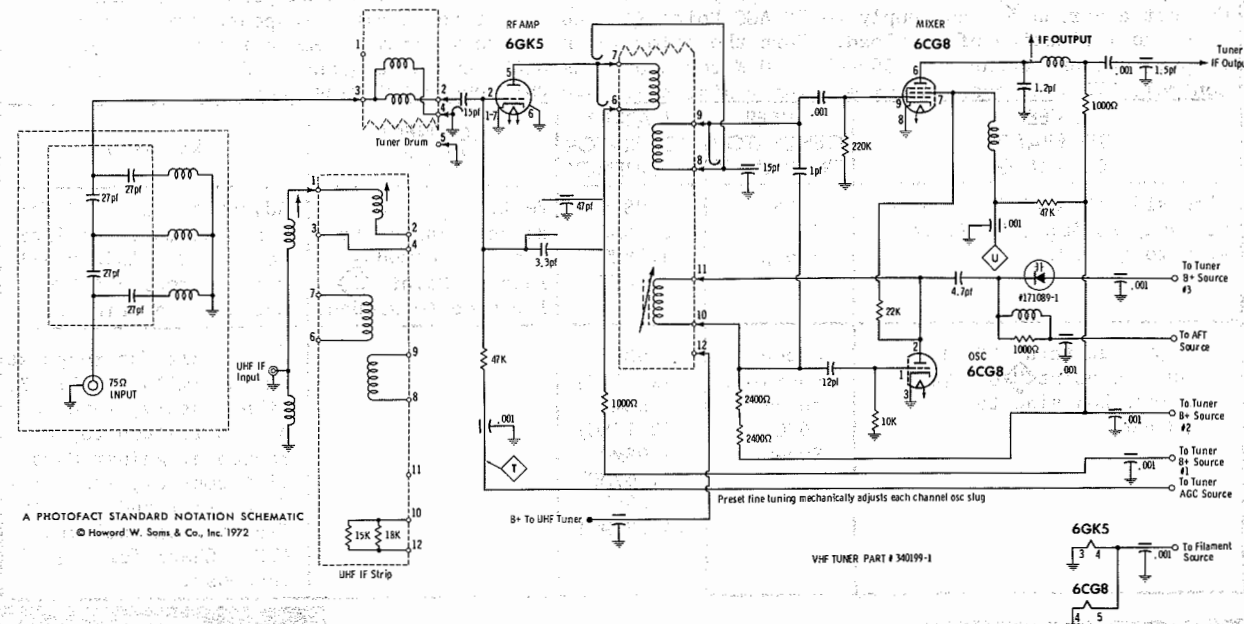
SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CONNECT SCOPE	REMARKS
High side thru .1mfd to grid of Bandpass Amp., V707, low side to ground.	3.58MC (3-5MC Sweep)	3.08MC 3.58MC 4.08MC 4.50MC	Vert. amp thru detector probe to Pin 7 of demodulators, Point $\diamond$ , low side to ground.	Adjust A12 and A13 for response curve similar to Fig. 2. Adjust A11 while watching 4.5MC marker. See Fig. 2.
High side thru .001mfd cap. to point $\diamond$ on VHF tuner. Low side to ground.	Sweep Generator to 3MC-6MC Sweep	3.08MC (42.67MC) 3.58MC (42.17MC) 4.08MC (41.67MC) 4.50MC (41.25MC)	"	Adjust A14 for response curve similar to Fig. 3. If necessary, retouch A12 to flatten top of response. Adjust Chroma Tilt control, R738, for final tilt and to help flatten and activate ATC. Check for Fig. 4 response.



A PHOTOFACT STANDARD NOTATION SCHEMATIC  
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## VHF TUNER 340199-1



## UHF TUNER 340179-1, 340181-1

## MISCELLANEOUS ADJUSTMENTS

NOTE: Automatic Tint Control switch and Chroma-tone switch in Off position for these adjustments.

### HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect:

- A 0-500ma 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  $\diamond$  to ground.
- A short across horizontal waveform coil (pin 8 of 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 waveform coil and adjust B1 until the picture floats horizontally. Remove the short from Point  $\diamond$ .

Turn the CRT Bias and the Brightness controls for minimum CRT brightness.

Adjust the horizontal linearity coil for MINIMUM current in the horizontal output tube (current should not exceed 240ma).

Adjust the high voltage control for 24KV on picture tube anode with minimum brightness. Check the high voltage regulator current. The current should not be less than 600 microamperes. If current is less than 600 microamperes, turn the horizontal linearity slug one-half turn clockwise. Check to see that horizontal output current does not exceed 240ma. If foldover occurs in picture, adjust horizontal linearity clockwise to eliminate foldover while checking to make sure horizontal output current does not exceed 240ma.

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 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:

GC ELECTRONICS  
A15, A16, A17 ..... #8606, 8606L, 8869

Set the Killer control fully counterclockwise. Set the Tint control to the center of it's range. Connect a color bar generator to the antenna terminals. Push A.T.C. switch to "Off" position. Adjust receiver for normal color reception.

Connect DC probe of VTVM through 470K resistor to Point  $\diamond$ , low side to ground. Adjust A17 for maximum. Remove VTVM.

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

Short the grid of V706 - Pin 2 to ground. Connect DC probe of VTVM to test point  $\diamond$ , low side to ground. Rotate the Tint control and observe DC voltage at extreme ends of the control rotation. Adjust A15 for equal voltage at each end of control rotation. Remove short and disconnect VTVM. Connect the vertical input of a 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 keyed rainbow generator. Check the range of the Tint control. The bars should move 30° either side of proper signal. If necessary, retouch A17 for proper range of control.

Check for proper waveform at G-Y and B-Y outputs: Points  $\diamond$  and  $\diamond$ . Tune in a weak signal or reduce the signal at the antenna terminals to obtain a snowy picture. Adjust the 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

Preform 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, screen controls, and CRT bias controls fully counterclockwise. Push Chromatone switch to "Off" position. 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 and dark areas of the picture. (Drive controls should be left at or near maximum clockwise position.)

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 (R-G Master Tilt) 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 (R-G Master Ampl.) R811	Red and Green Vertical bars at bottom of screen.	
4.	R-G Horizontal Lines, Top (R-G Diff. Tilt) 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 (R-G Diff. Ampl.) R812	Red and Green Horizontal bars at bottom of screen.	
6.	Blue Horizontal Lines, Top (Blue Tilt) 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 (Blue Ampl.) R808	Blue Horizontal bars at bottom of screen.	
8.	Center Horizontal Blue Lines (Blue Center) L803	Blue Horizontal lines at center of screen.	Adjust for slight upward movement (1/8") approximately. If 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 (Blue Master Ampl.) 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 (Blue Tilt) L804	Blue Horizontal bars at left side of screen.	
12.	R-G Vertical Lines, Right (R-G Master Ampl.) L801	Red and Green Vertical bars at right side of screen.	(Fig. E)
13.	R-G Horizontal Lines, Right (R-G Diff Ampl.) 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 (R-G Master Tilt) R804	Red and Green Vertical bars at left side of screen.	(Fig. E)
15.	R-G Horizontal Lines, Left (R-G Diff. Tilt) 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).

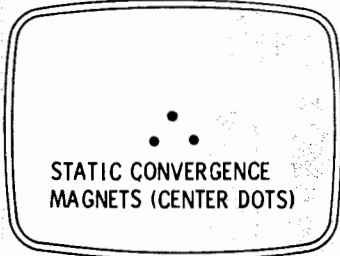


FIG. A

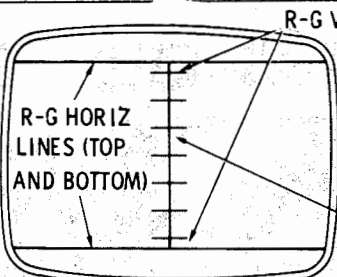


FIG. B  
(RED AND GREEN ONLY)

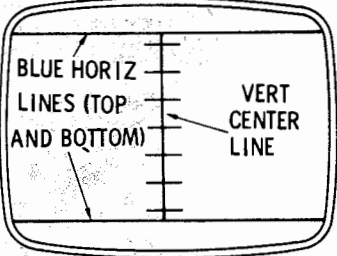


FIG. C  
(BLUE BARS)

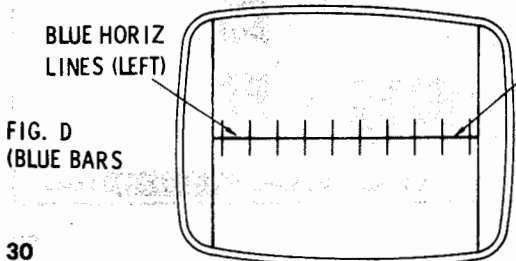


FIG. D  
(BLUE BARS)

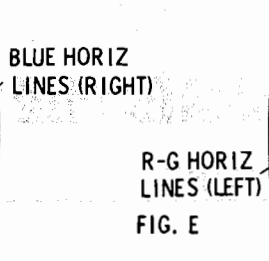
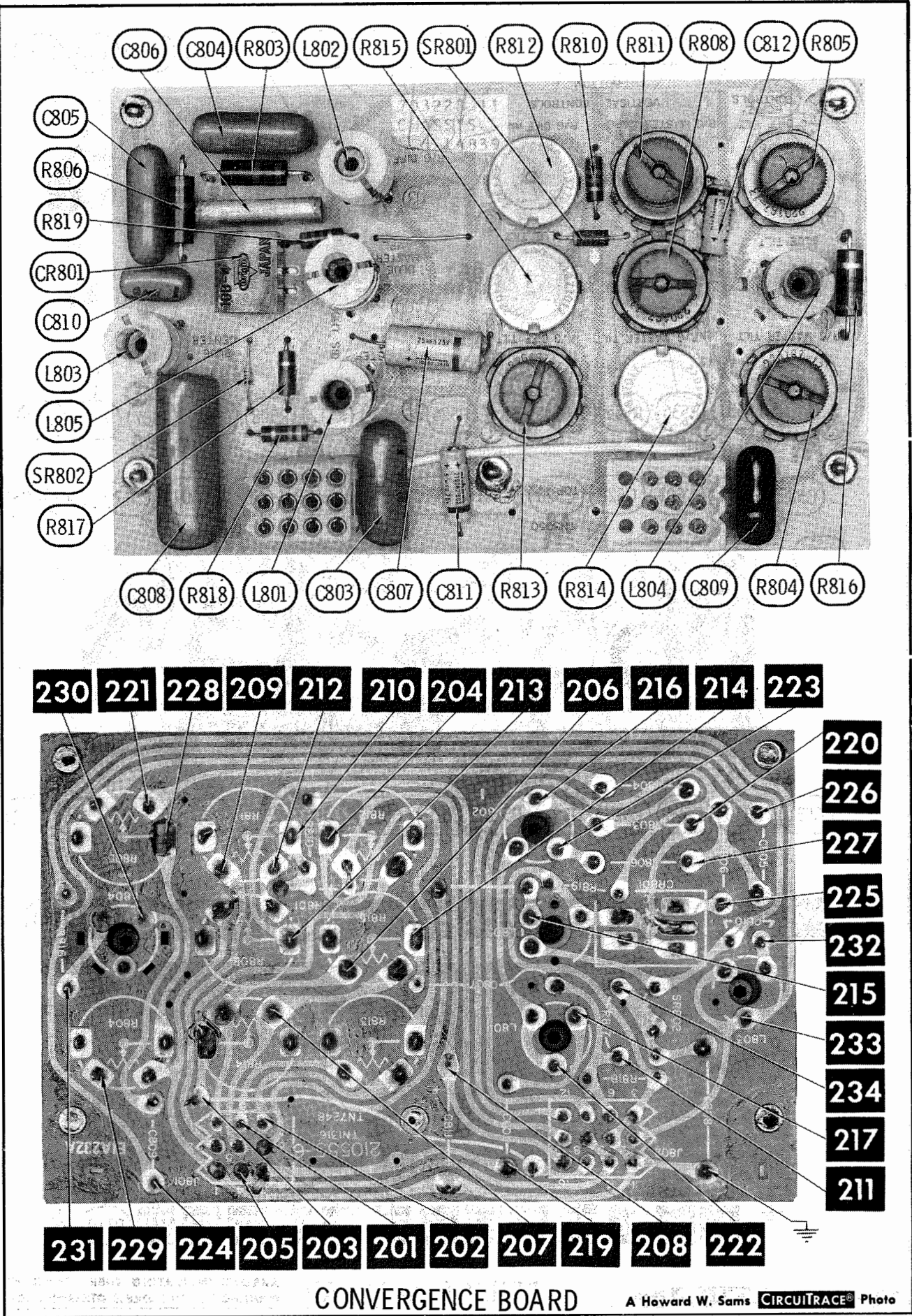
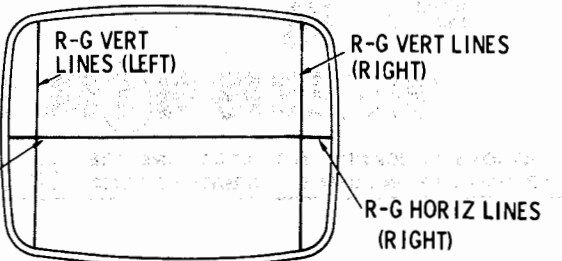
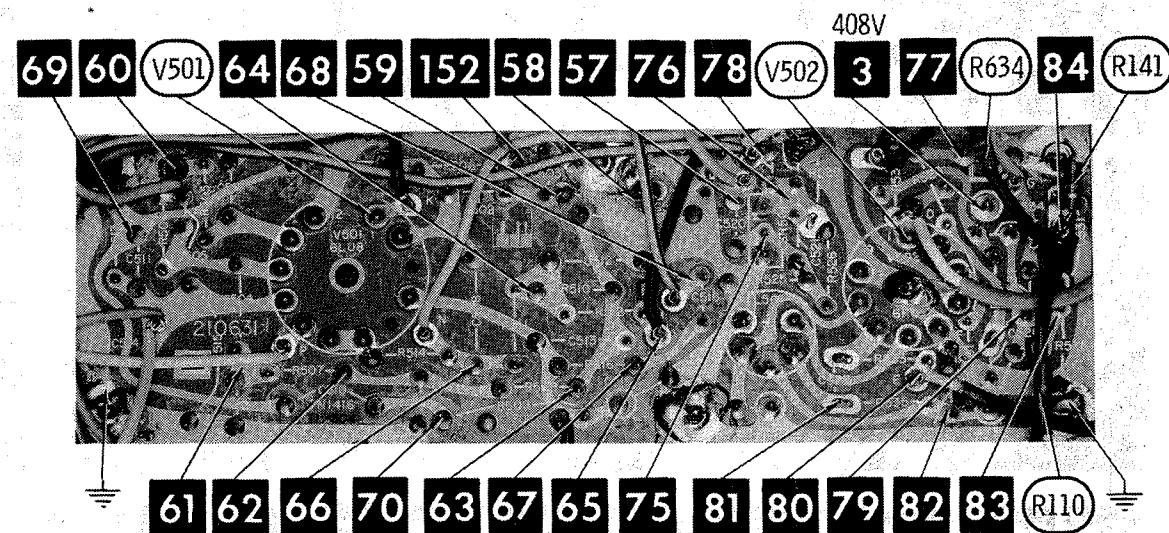
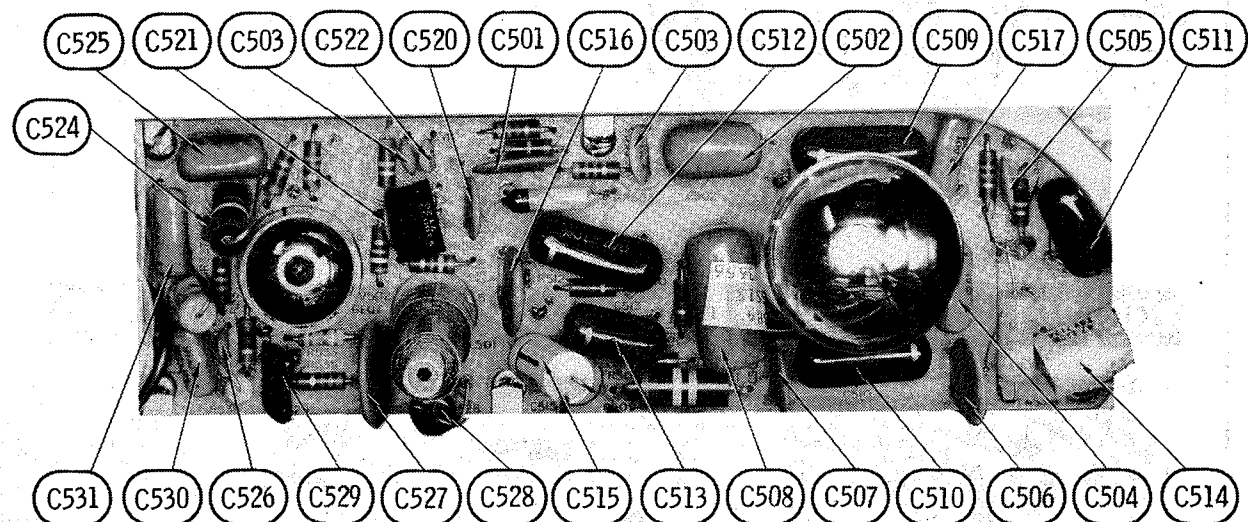
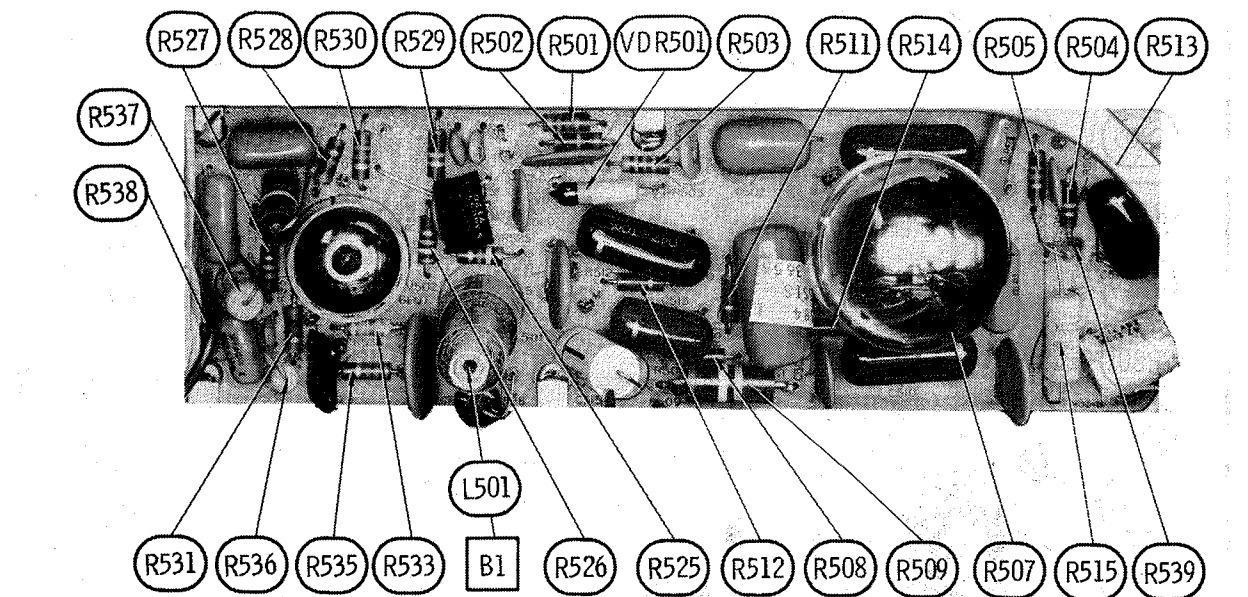


FIG. E

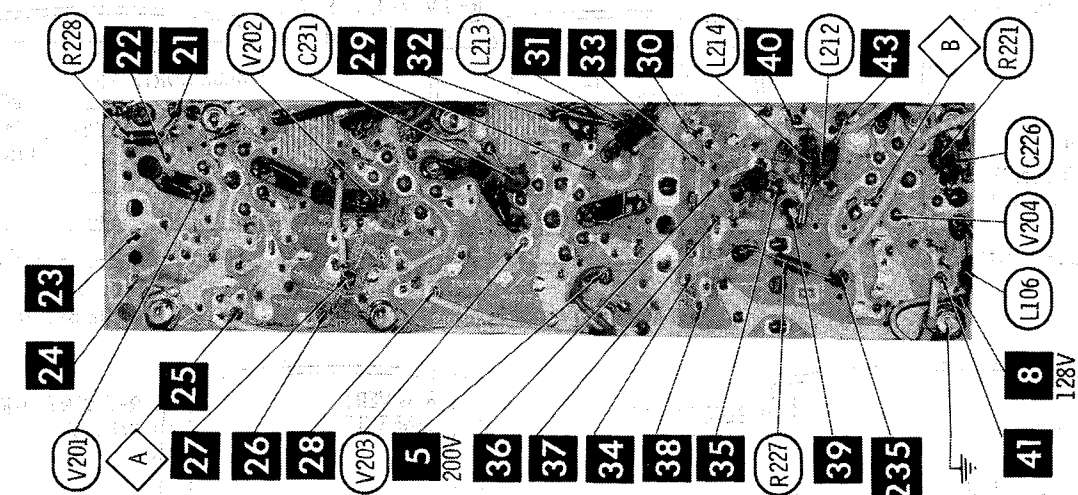
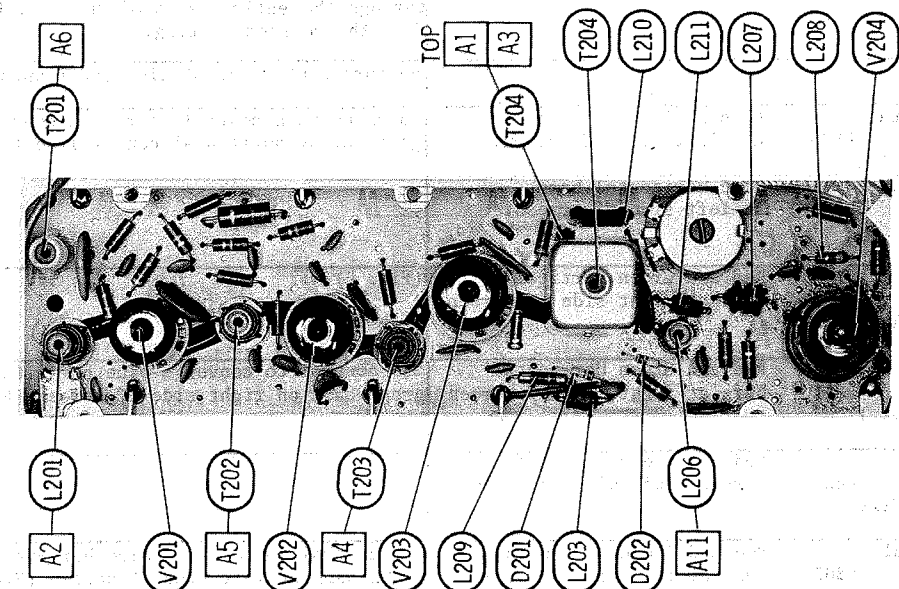
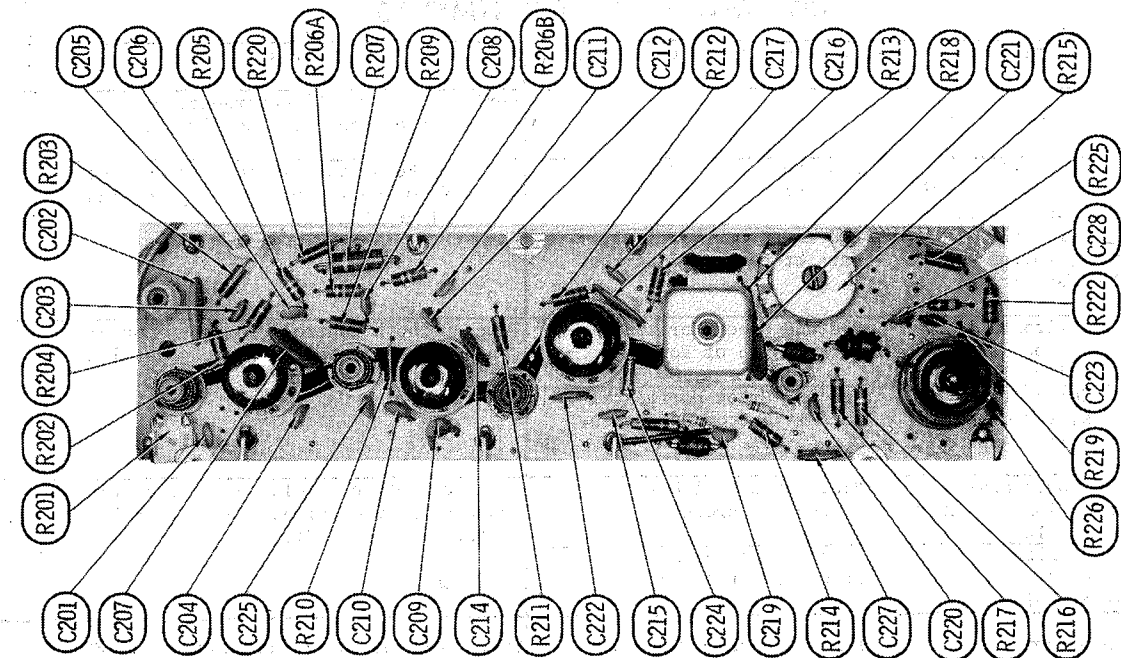






DEFLECTION BOARD

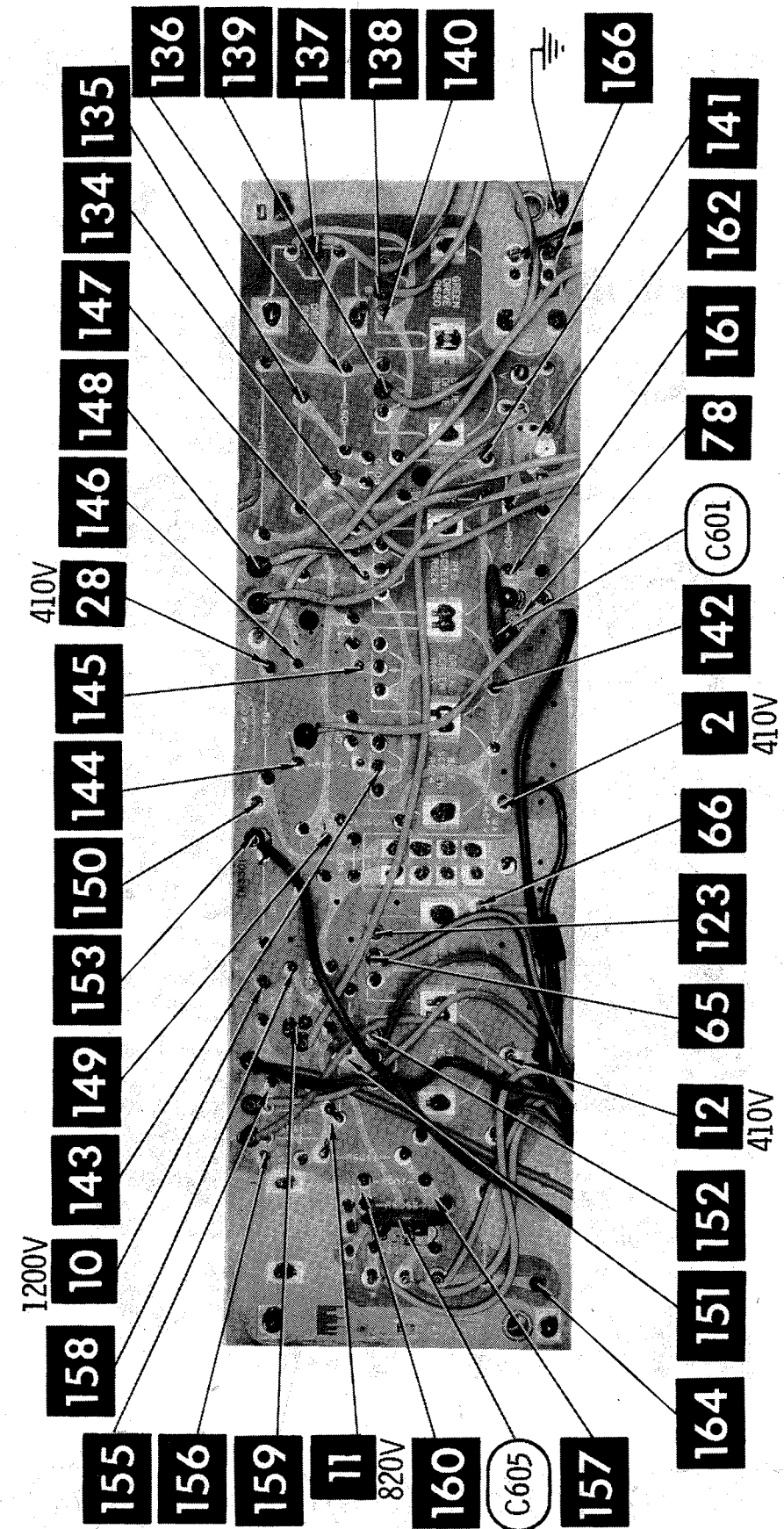
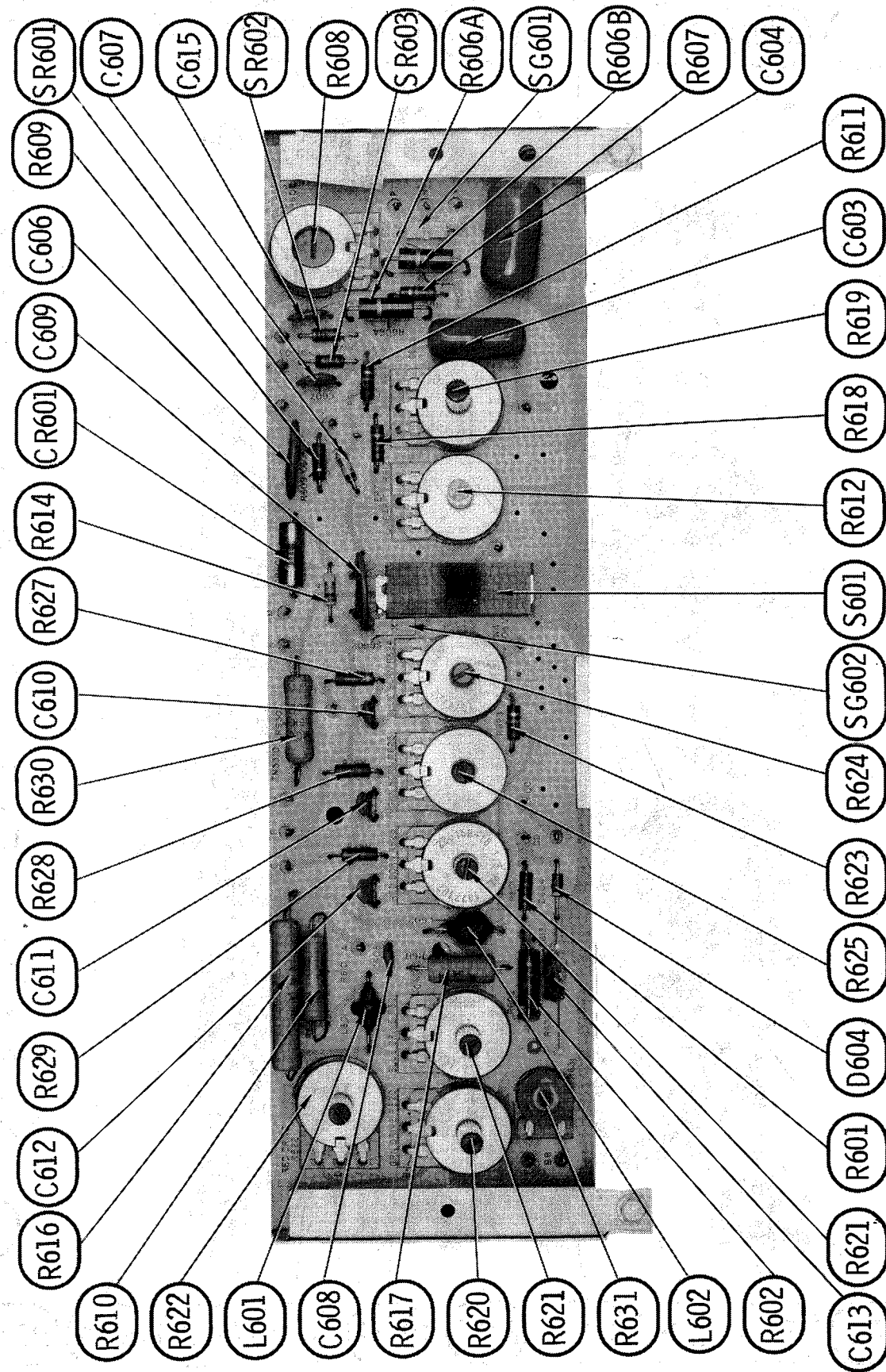
ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



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

IF BOARD

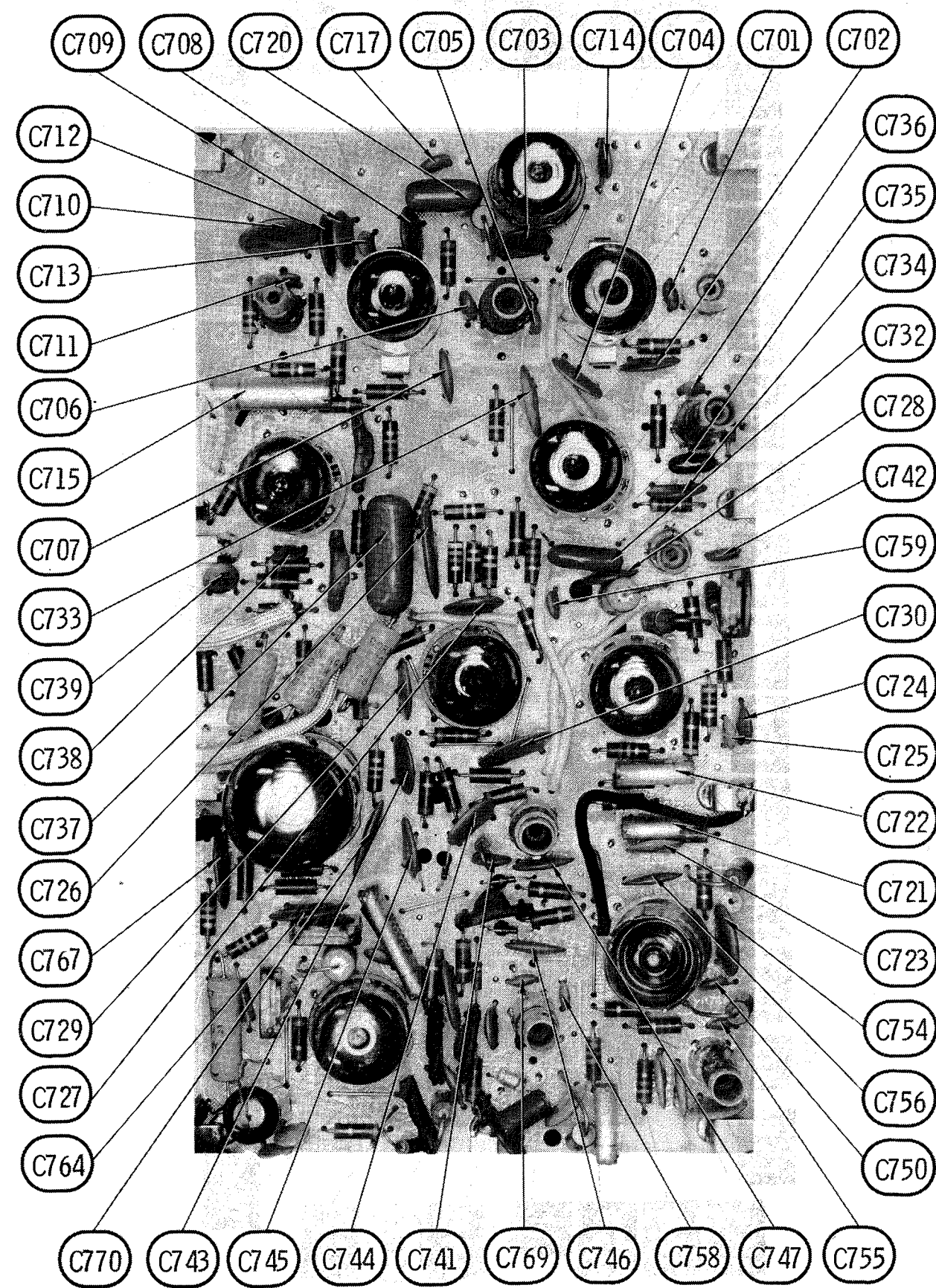
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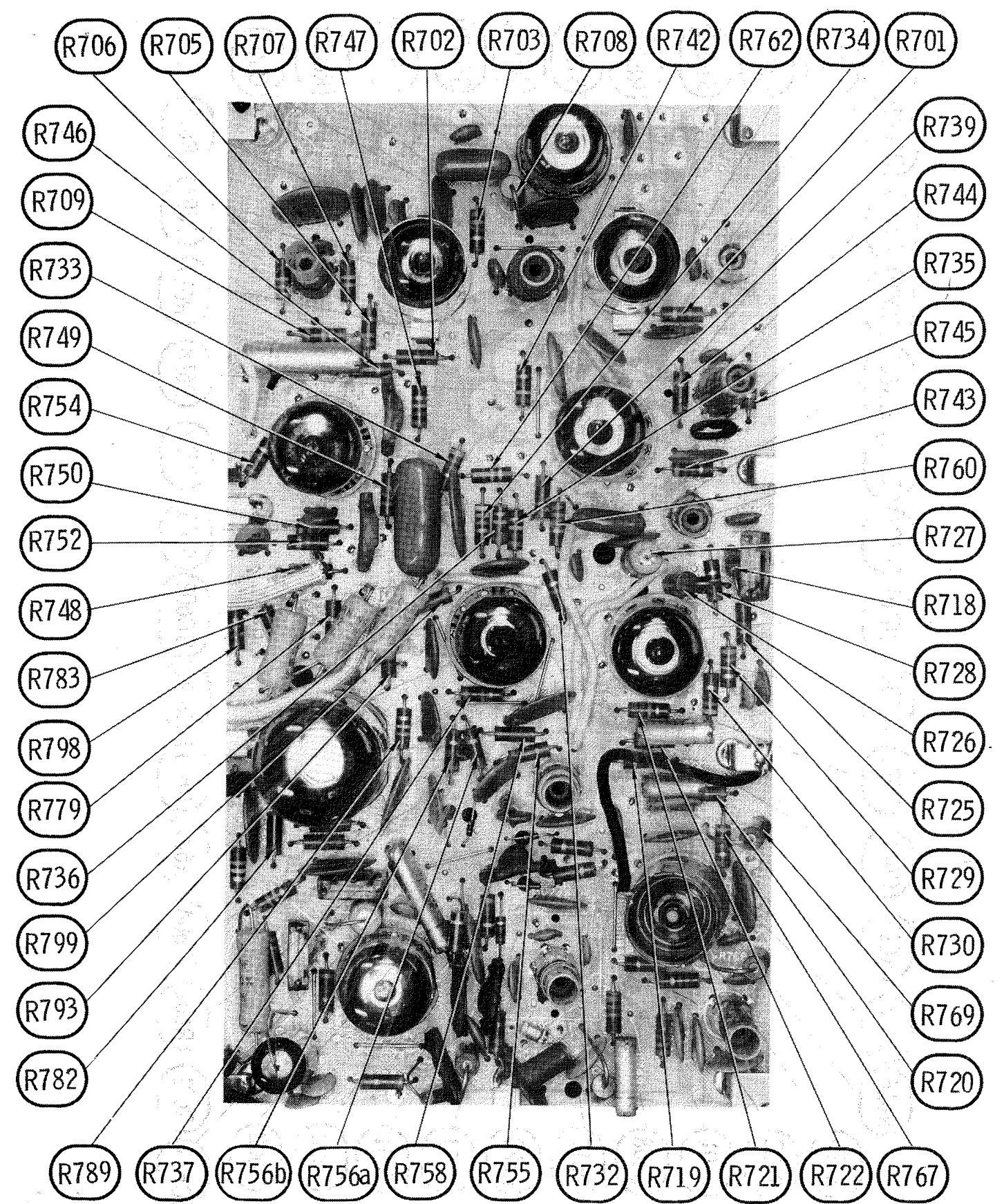
VIDEO CONTROL BOARD

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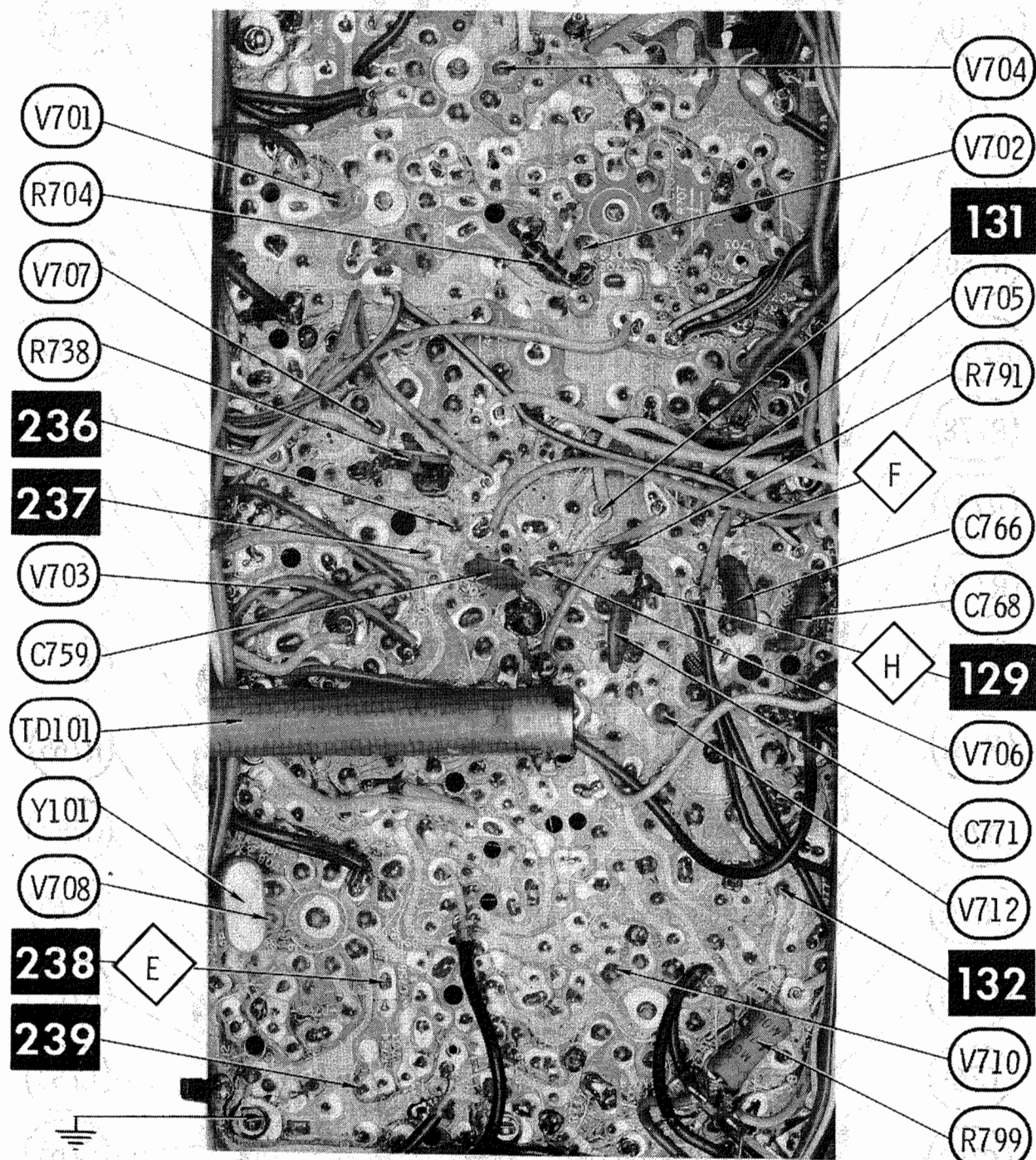




CHROMA BOARD

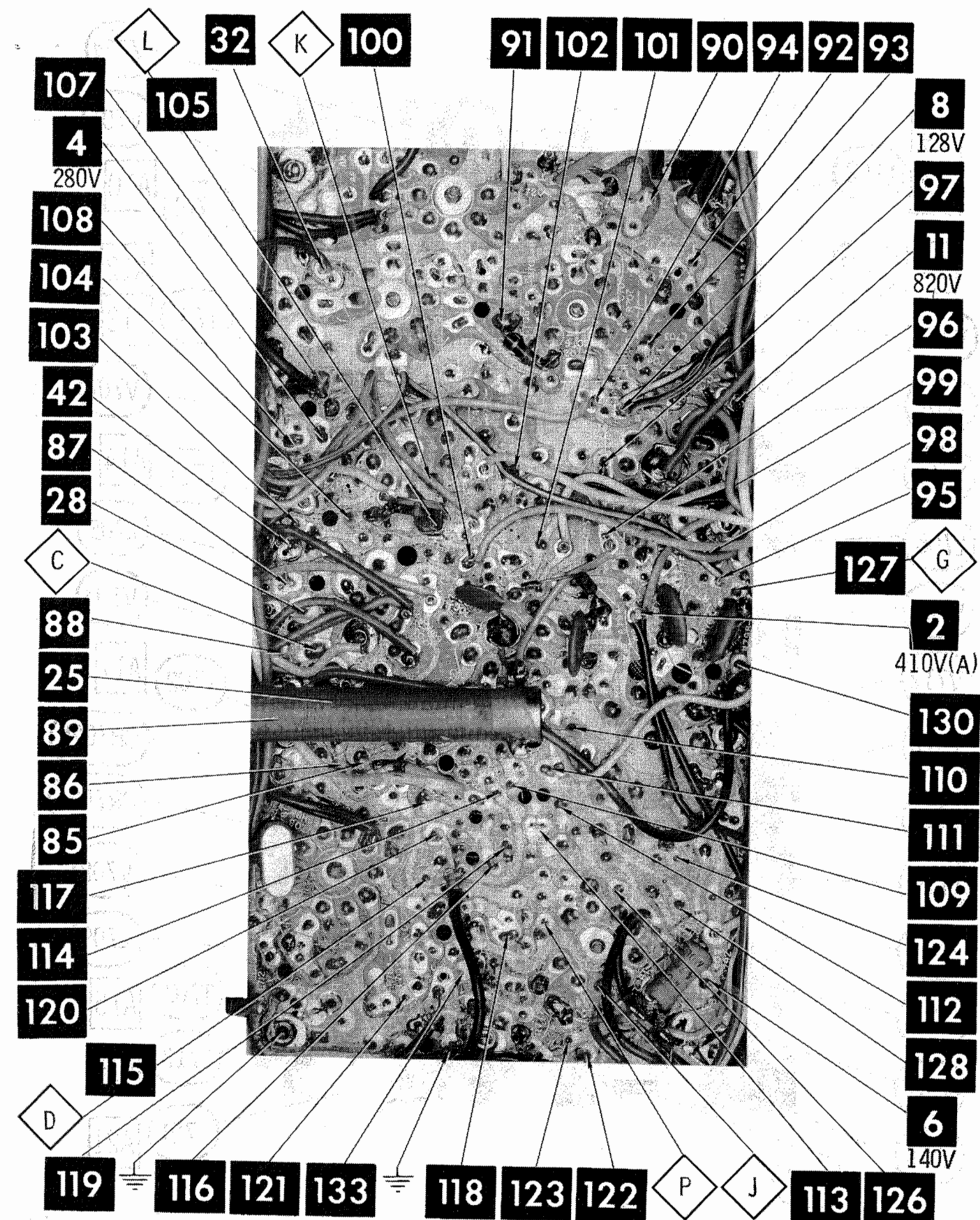






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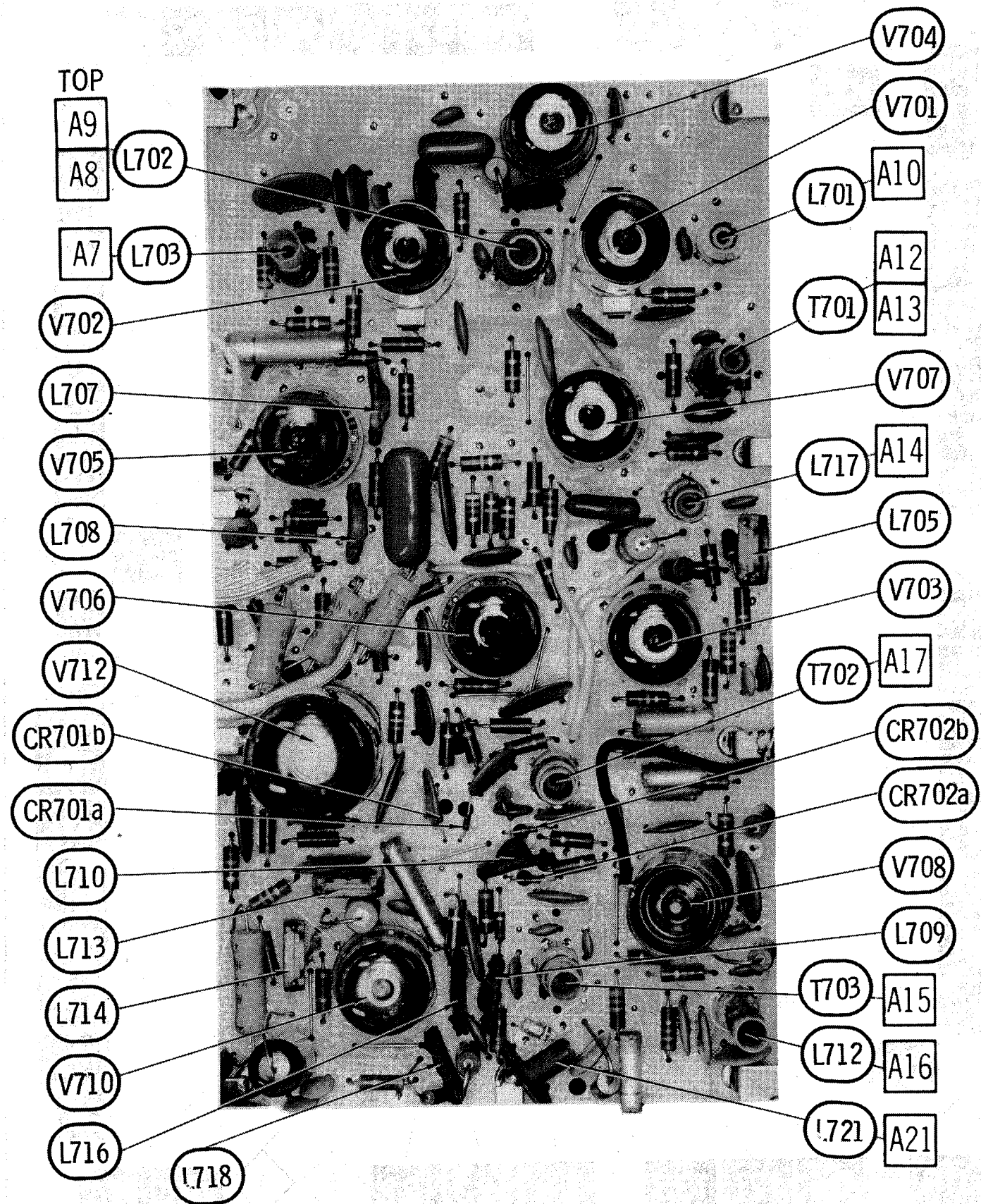
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POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



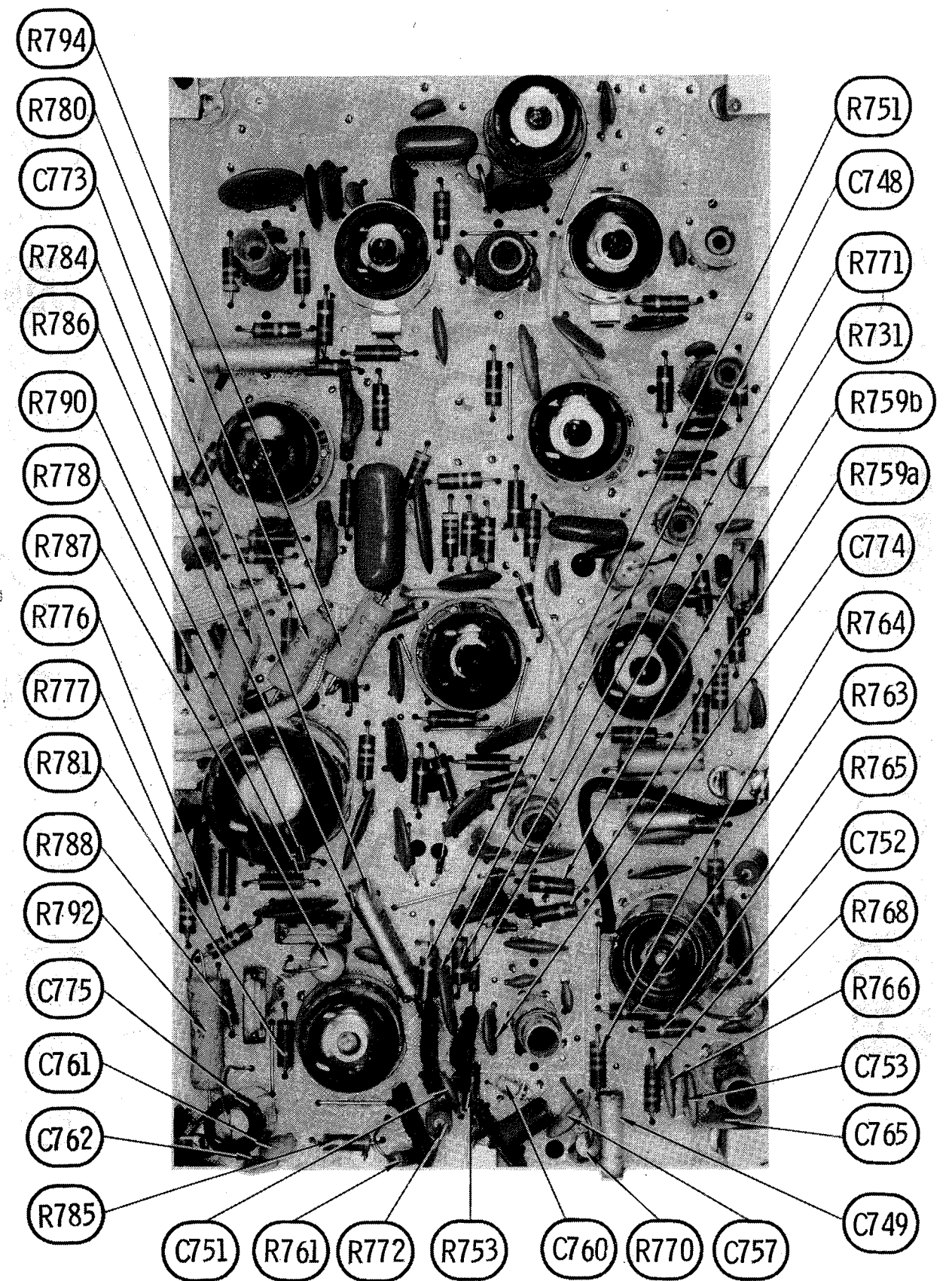
CHROMA BOARD

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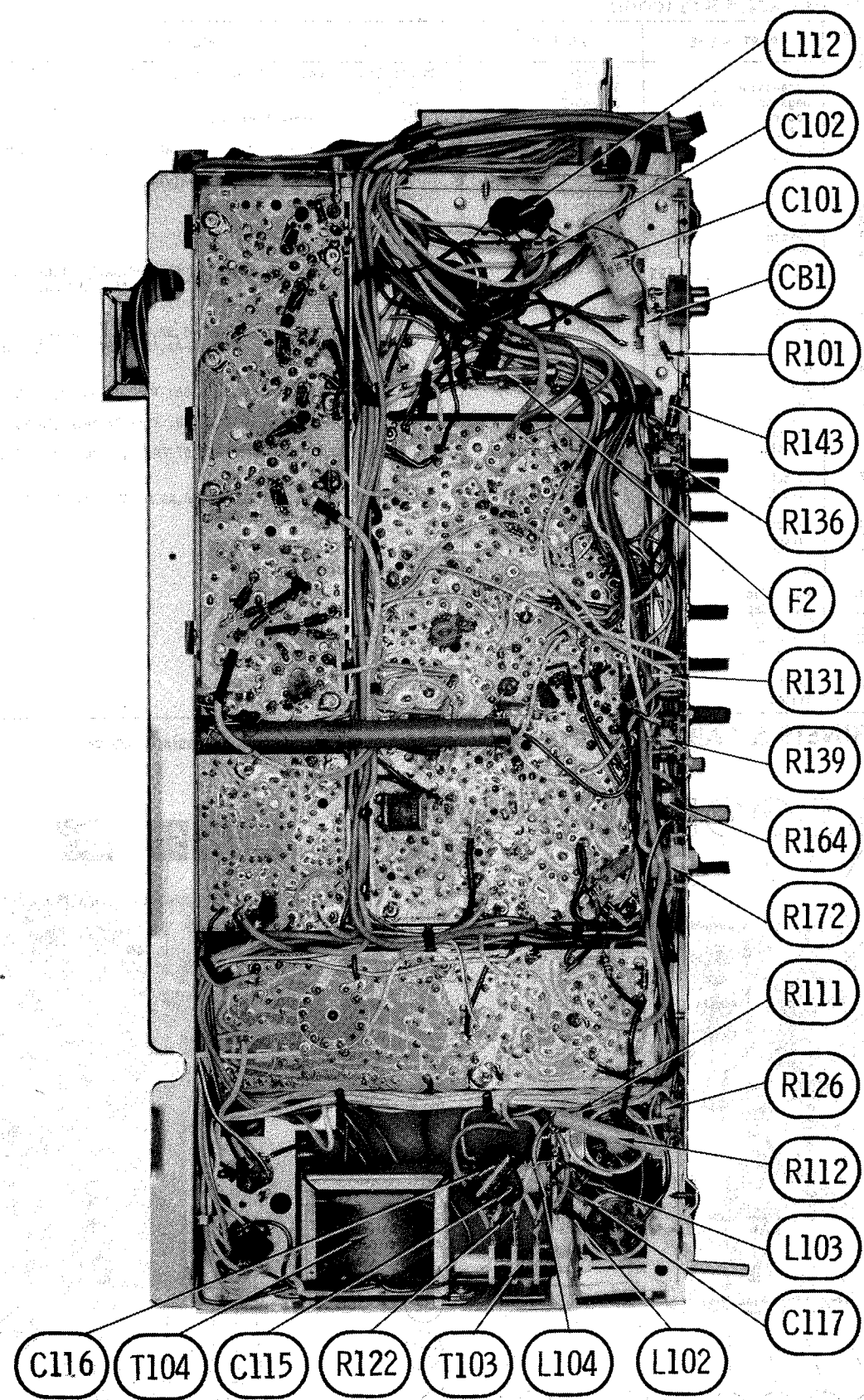




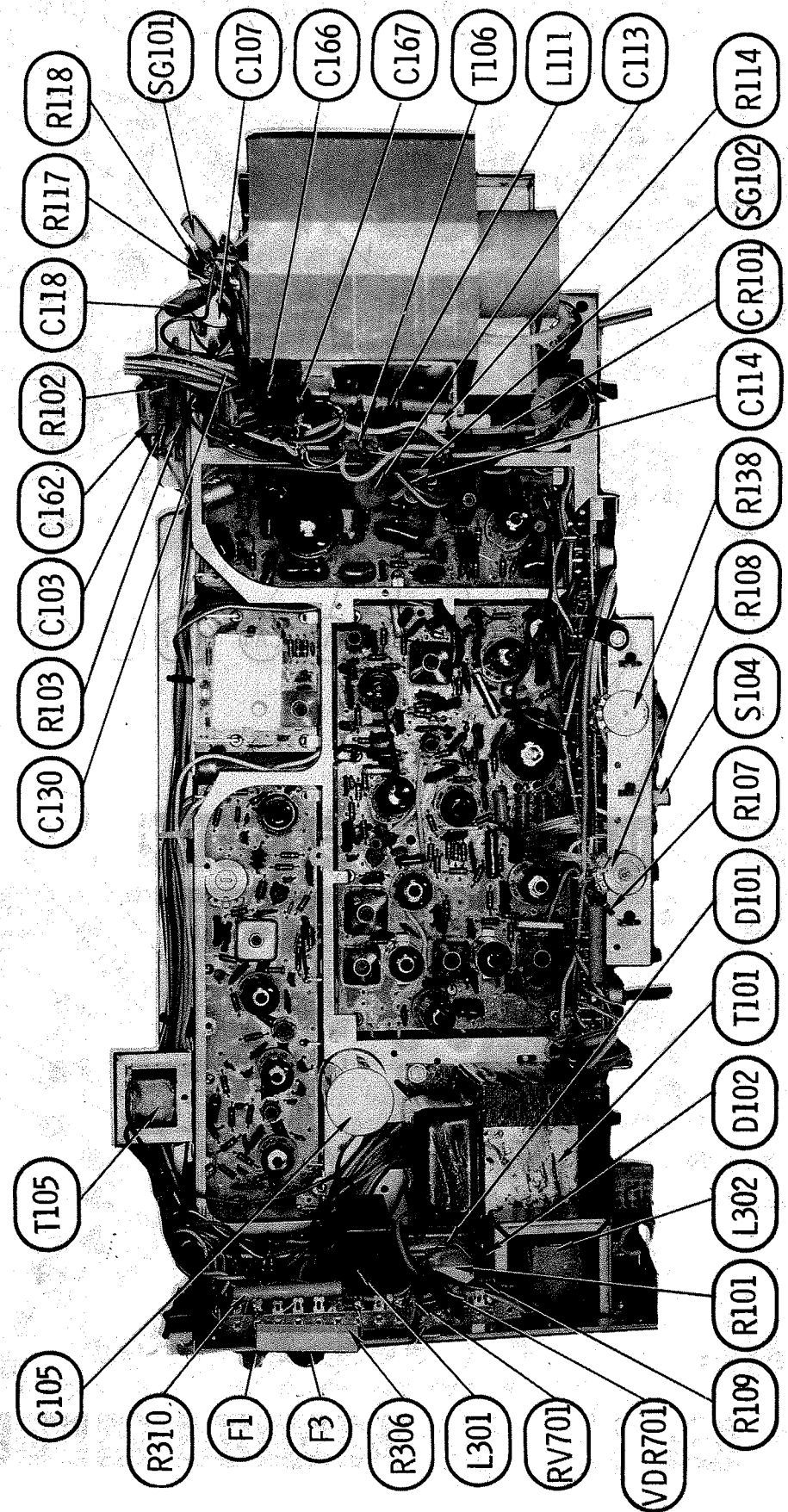
CHROMA BOARD



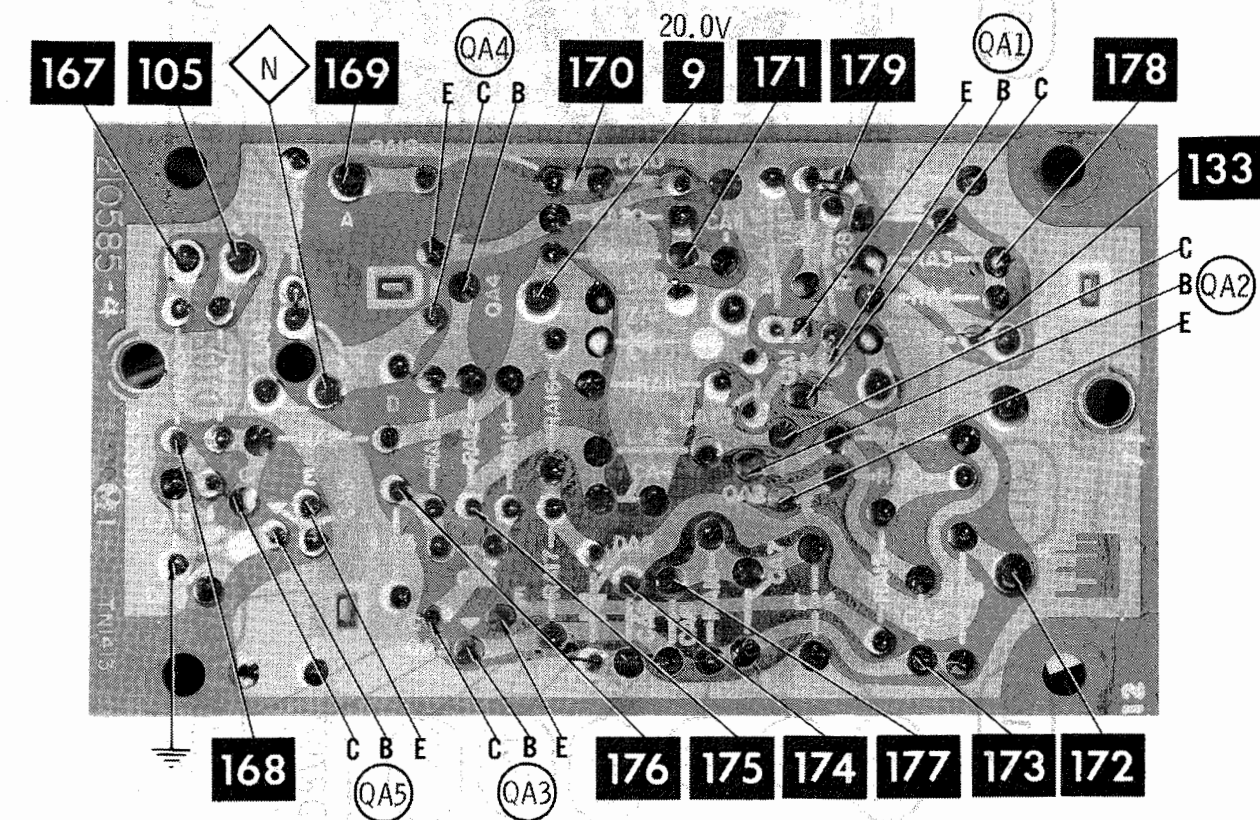
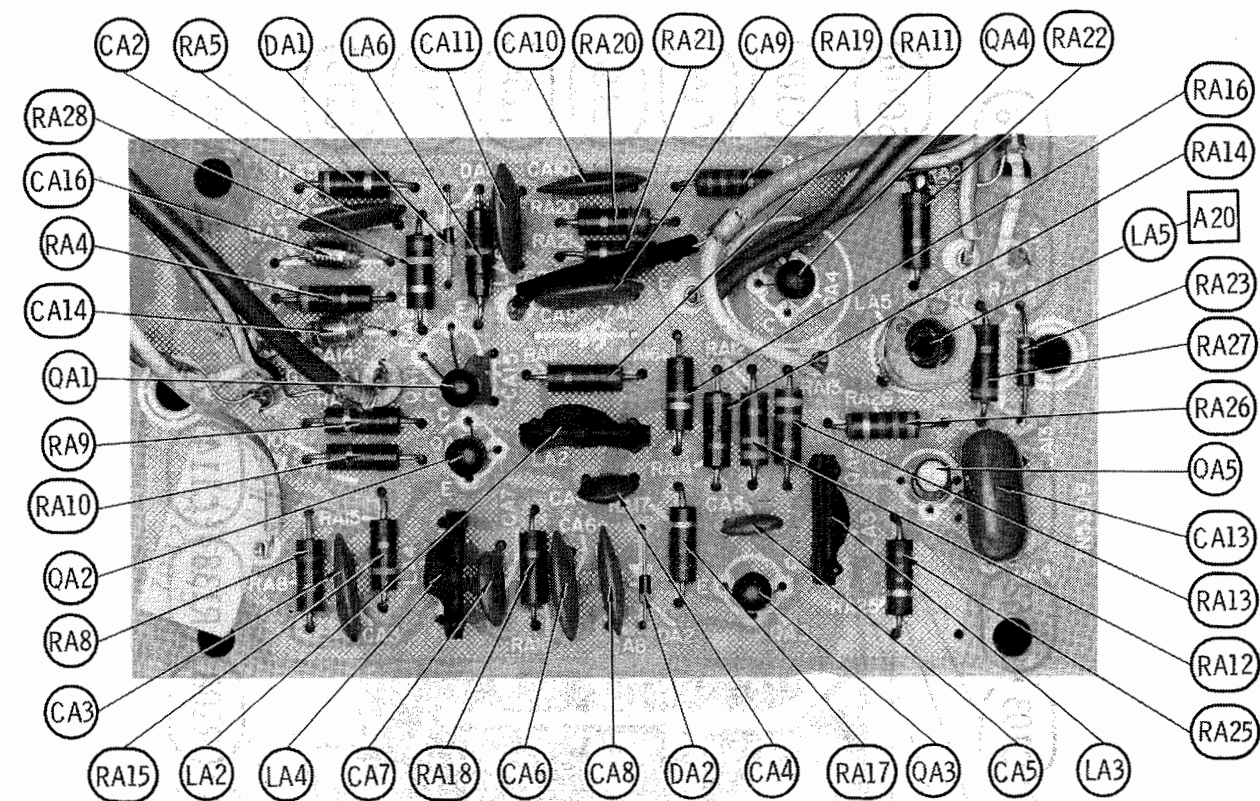




CHASSIS-BOTTOM VIEW



CHASSIS-TOP VIEW



AUTOMATIC TINT CONTROL

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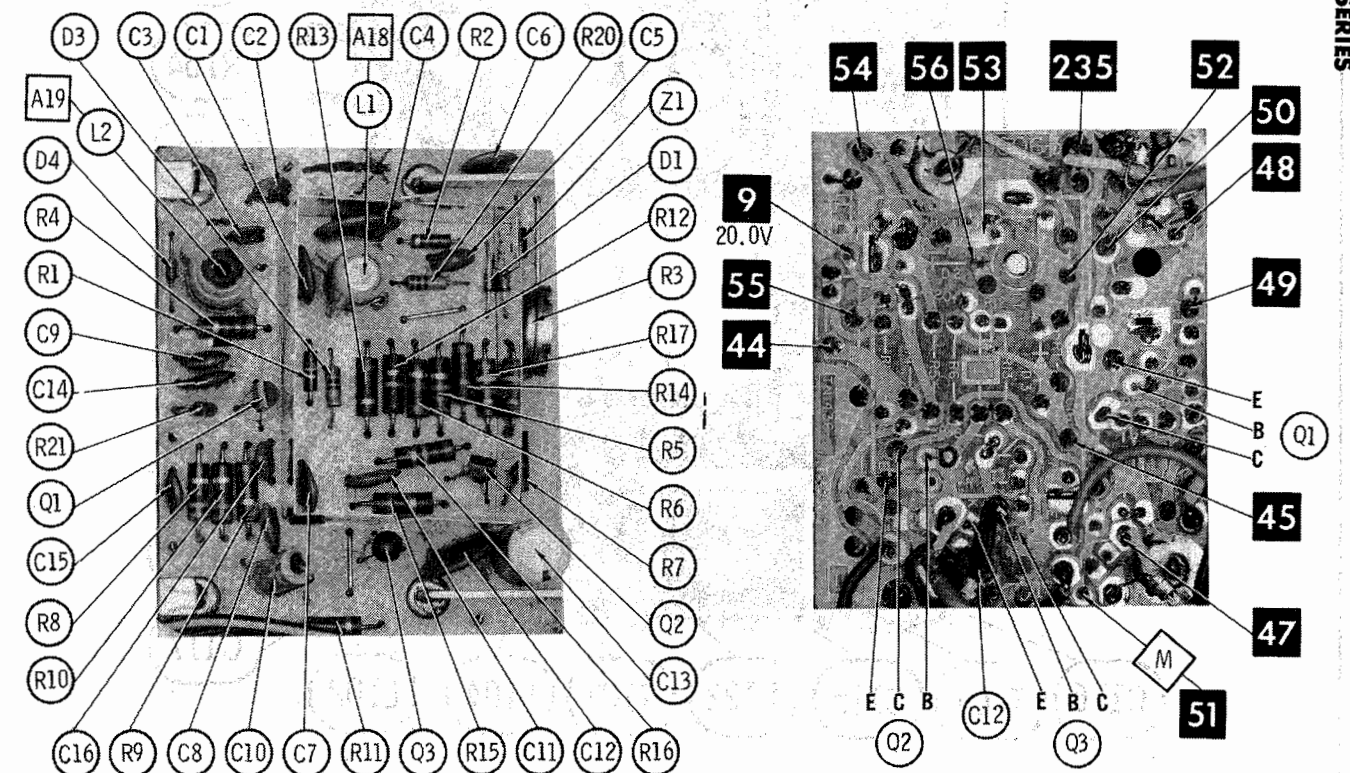
## PARTS LIST AND DESCRIPTION (CONTINUED)

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

### MISCELLANEOUS (cont)

ITEM No.	PART NAME	PART No.	NOTES
K101	Relay	160413-4	On-Off Remote (Console Remote Chassis only)
M1	Degaussing Coil	361266-9	Blue Lead
M2	Degaussing Coil	361266-8	Green Lead
M3	Motor	500225-15	Color (Used in Remote Versions only)
M4	Motor	500222-10	VHF
M5	Motor	500222-14	VHF (Used in Chassis T962-07-AA,AB,BA,BB; T962-77-AA,AB,BA,BB only)
S104	Switch	500221-4	UHF
S105	Switch	500225-15	Volume (Used in Remote Versions only)
S106	Switch	160370-7	Chromatone (Slide)
S401	Switch	160370-12	Line Tap (120-128VAC)
S402	Switch	160370-23	Remote Defeat
		160454-6	Power On-Off
		160451-1	AFT Defeat
		160370-18	AFT Defeat (Used in Chassis T962-06-AA,AB,BA,BB,CA,CB,DA,DB; T962-07-AA,AB,BA,BB; T962-76-AA,AB,BA,BB,CA,CB,DA,DB; T962-77-AA,AB,BA,BB only)
S403	Switch	160451-3	ATC
	Switch	160370-17	ATC (Used in Chassis T962-06-AA,AB,BA,BB,CA,CB,DA,DB; T962-07-AA,AB,BA,BB; T962-76-AA,AB,BA,BB,CA,CB,DA,DB; T962-77-AA,AB,BA,BB only)
S404	Switch	160451-7	UHF (Up)
S405	Switch	160393-1	Used in Chassis T962-07-AA,AB,BA,BB; T962-77-AA,AB,BA,BB only)
S406	Switch	160451-7	UHF (Down)
	Switch	160393-1	Used in Chassis T962-07-AA,AB,BA,BB; T962-77-AA,AB,BA,BB only)
	Switch	160451-7	VHF Search
	Switch	160393-1	VHF Search (Used in Chassis T962-07-AA,AB,BA,BB; T962-77-AA,AB,BA,BB only)
S407	Switch	160451-7	On-Off
	Switch	160393-1	On-Off (Used in Chassis T962-07-AA,AB,BA,BB; T962-77-AA,AB,BA,BB only)
S408	Switch		UHF Reverse (Part of Tuner)
S413	Switch		Latch Transfer
S414	Switch		Geneva
S601	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	560314-5	3.58MC
	Magnet	361292-3	Blue Lateral Assembly

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



AUTOMATIC FINE TUNING BOARD

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## 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.

## SWEEP COMPONENT CONNECTION DATA

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

## TRANSFORMER (Power)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	MFR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
	SEC. 2	SEC. 3					
T101	117VAC @ 3.3AAC Tap @ 128VAC	320VAC @ .49ADC	300251-6	P-9003C		R-303A	
	6.3VAC @ 2AAC	6.3VAC @ 10AAC					

## TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T105	14,000	3.2	320381-1	A-8092	24561	S-53X	

## SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				MFR. PART No.	QUAM PART No.	
SP1	6" x 9"	PM	3.2 ohms	586903-1	69A2	

## FUSE DEVICES

ITEM No.	DESCRIPTION	REPLACEMENT DATA						
		PART No.		BUSS PART No.		LITTELFUSE PART No.		WORKMAN PART No.
		DEVICE	HOLDER	DEVICE	HOLDER	DEVICE	HOLDER	DEVICE
CB1	Circuit Breaker Break Current 3.1 Amp Hold Current 2.1 Amp	180723-2				8153.25		FA3.5
F1	5 Amp 125V Slow Blow	180157-19		MDX5	3823-2 (2)	313005	357002 (2)	
F2	7 Amp 32V Slow Blow	180865-5700		MDV7		315007		
F3	Pigtail 25 Amp 32V Slow Blow	180157-42		MDL25	3823-2 (2)	313025	357002 (2)	

(2) A dual fuse holder for F1 and F3.

## MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
	VHF Tuner	340200-2	
	VHF Tuner	340200-1	
	VHF Tuner	340199-1	
	UHF Tuner	340180-2	
	UHF Tuner	340178-2	
	UHF Tuner	340179-1	
	UHF Tuner	340181-1	

## 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)
General-use Unshielded Hook-up Wire .....	Use BELDEN No. 8738 (Two Conductor)
Power Cord (Interlock Type) .....	Use BELDEN No. 8530 (Solid) Available in 12 Colors
300-Ohm Tuner Input Lead .....	Use BELDEN No. 8524 (Stranded) Available in 12 Colors
300-Ohm Antenna Lead-in .....	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
Antenna Rotor Cable .....	Use BELDEN No. 8225 (Foam Core) or 8285 (Foam Jacketed)
	Use BELDEN No. 8275 (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	3CU3A	V702	Audio Detector	6DT6A	V702	Audio Detector	6DT6A	V702	Audio Detector	6DT6A
V102	Shunt Regulator	6EN4	V703	AGC Keying - Sync Separator	6GH8A	V703	AGC Keying - Sync Separator	6GH8A	V703	AGC Keying - Sync Separator	6GH8A
V103	Damper	6DW4A	V704	Audio Output	6AQ5A	V704	Audio Output	6AQ5A	V704	Audio Output	6AQ5A
V104	Horiz. Output	6LQ6/6JE6C	V705	Video Output	12GN7A (12HG7) *	V705	Video Output	12GN7A (12HG7) *	V705	Video Output	12GN7A (12HG7) *
V201	1st Video IF	6JH6	V706	Color Killer - Burst Amp	6KE8 (6MQ8) *	V706	Color Killer - Burst Amp	6KE8 (6MQ8) *	V706	Color Killer - Burst Amp	6KE8 (6MQ8) *
V202	2nd Video IF	6GM6	V707	Chroma Bandpass Amp - Horiz. Blanking Amp	6GH8A	V707	Chroma Bandpass Amp - Horiz. Blanking Amp	6GH8A	V707	Chroma Bandpass Amp - Horiz. Blanking Amp	6GH8A
V203	3rd Video IF	6JC6A	V708	3.58MC Oscillator Control	6GH8A	V708	3.58MC Oscillator Control	6GH8A	V708	3.58MC Oscillator Control	6GH8A
V204	1st Video Amp - 2nd Video Amp	6MU8	V710	X-Z Demodulator	6MK8A	V710	X-Z Demodulator	6MK8A	V710	X-Z Demodulator	6MK8A
V501	Vert. Mult. - Vert. Output	6LUB	V712	G-Y Amp -- B-Y Amp -- R-Y Amp	6MD8	V712	G-Y Amp -- B-Y Amp -- R-Y Amp	6MD8	V712	G-Y Amp -- B-Y Amp -- R-Y Amp	6MD8
V502	Horiz. AFC - Horiz. Oscillator	6FQ7									
V701	Sound IF	6AU6A									

\* Alternate

## PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	MFR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V106	25VBEP22		H-25VAEP22 (1)	XR25VBEP22	(1) Hi-Lite

## SEMICONDUCTORS

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA					
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	MOTOROLA PART No.
CR101		530132-1	GE-1	61-8969	PTC208	SK3066	ECG 118	
CR601		530097-3	GE-2	61-8968	PTC209	SK3109	ECG 119	
CR701a		170733-1	GE-300	D200MP (6)	PTC215 (6)	SK3100	ECG 178MP (6)	
CR702a		170733-1	GE-300	D200MP (6)	PTC215 (6)	SK3100	ECG 178MP (6)	
CR801	10B-4	530122-1	GE-300	D200MP (6)	PTC215 (6)	SK3100	ECG 178MP (6)	
DA1		530144-1	GE-504A (2)	8D4 (2)		SK3032 (2)	ECG 116 (2)	
DA2		530144-1					ECG 177	
DA4		530144-1					ECG 177	
D1		530072-6					ECG 177	
D2		530105-1	1N60	1N60	PTC206	SK3088	ECG 109	
D3		530105-1	1N60	1N60	PTC206	SK3088	ECG 109	
D4		530144-3					ECG 117	
D101		530082-3	GE-504A	8D6 or 5A6D	PTC202	SK3017A or SK3032	ECG 116 or ECG 117	
D102		530082-3	GE-504A	8D6 or 5A6D	PTC202	SK3017A or SK3032	ECG 116 or ECG 117	
D201		530065-3	1N60	1N60	PTC206	SK3088	ECG 109	
D202		530065-3	1N60	1N60	PTC206	SK3088	ECG 109	
D604		530088-3	GE-504A	8D6 or 5A6D	PTC202	SK3017A or SK3032	ECG 116 or ECG 117	
QA1	124N1	610124-1	GE-20	TR-21	PTC125	SK3018	ECG 108	HEP56
QA2	150N1	610150-1	GE-17	TR-21	PTC125	SK3018	ECG 108	HEP54
QA3	150N1	610150-1	GE-17	TR-21	PTC125	SK3018	ECG 108	HEP54
QA4	125P1	610125-1	GE-21	TR-30	PTC127	SK3114	ECG 159	HEP715
QA5	45N4	610045-4	GE-20	TR-21	PTC125	SK3020	ECG 108	HEP54
Q1	77N4	610077-4	GE-20	TR-21	PTC125	SK3122	ECG 123A	HEP721
Q2	151N1	610151-1	GE-20	TR-21	PTC125	SK3018	ECG 108	HEP56
Q3	151N1	610151-1	GE-20	TR-21	PTC125	SK3018	ECG 108	HEP56

## 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.

## SEMICONDUCTORS (cont)

ITEM No.	TYPE No.	MFR. PART No.	REPLACEMENT DATA					
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	MOTOROLA PART No.
SR301		530088-2	GE-504A	8D6 or 5A6D	PTC202	SK3017A or SK3032	ECG 116 or ECG 117	
SR302		530088-2	GE-504A	8D6 or 5A6D	PTC202	SK3017A or SK3032	ECG 116 or ECG 117	
SR303		530088-2	GE-504A	8D6 or 5A6D	PTC202	SK3017A or SK3032	ECG 116 or ECG 117	
SR304		530088-2	GE-504A	8D6 or 5A6D	PTC202	SK3017A or SK3032	ECG 116 or ECG 117	
SR501		530093-1	6GC1	DD04	PTC407	SK3119	ECG 113	
SR601		530088-4	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 116 or ECG 117	
SR602		530106-1	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 507	
SR603		530106-1	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 507	
SR801		530098-1	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 116 or ECG 117	
SR802		530072-14	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 116 or ECG 117	
Z1		530073-28	GEZD-20		PTC202	SK3031	ECG 5079	

(2) Two required.

(6) Matched Pair

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	MFR. PART No.	REPLACEMENT DATA						
			AEROVOX 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	CRE751A	ME-1-J-002	EA50-2	WBR2-50	MT1-1	MTA2D50	TE-1301
C13	100 25V	270109-1225	MCD-180	RME-G-G-100	EA30-100	WBR100-25	MT1-20	MTV100DB25	TE-1211
C103	10 300V	270027-36	PRS1620	CTA-1370		WBR10-450	QT1-6	TC62A	TVA1604
C105a	80 450V	270071-12 (1)	AFH3-46-50	CTM-3745		CC0370.5A	XC3-34	FP375.75	TVL-3775.9
C107a	80 450V	270071-21	AFH2-66-60 & PRS1740	CTM-3789		CC0370.5A	XC3-32	FP378.1	TVL-3793.3
C130a	20 450V	270023-43 (2)	AFH3-36	CTM-4722		CC0385A	XC3-24	FP376.5A	TVL-3780
C162	50 50V	270082-713	CRE767A	ME-7-J-050	EA50-50	WBR60-50	MT1-17	MTA50E50	TE-1307
C401	100 25V	270087-614	CRE623A	ME-7-G-100	EA30-100	WBR100-25	MT1-20	MTA100F35	TE-1211
C406	2 50VNP	270070-702	PRS7550			BRNP2-50	NPQT-2	TCN502	TVAN-1301.1
C407	2 50VNP	270070-702	PRS7550			BRNP2-50	NPQT-2	TCN502	TVAN-1301.1
C807	25 25V	270082-2610	CRE612A	ME-3-G-025	EA30-25	WBR25-25	MT1-11	MTA25D35	TE-1207
C811	5 25V	270082-603	CRE604A	ME-1-G-005	EA30-5	WBR5-50	MT1-3	MTA5D50	TE-1202
C812	5 25V	270082-603	CRE604A	ME-1-G-005	EA30-5	WBR5-50	MT1-3	MTA5D50	TE-1202

(1) Some versions may use 80mfd @ 450V, Part #270071-13 in this application.

(2) Some versions may use 20mfd @ 450V, 20mfd @ 350V, Part #270023-43 in this application.

## CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENC0 PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
CA2	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
CA3	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
CA4	20 NPO	5%		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
CA5	20 NPO	5%		CCT0-200	DTZ-20	NP020	CN0420	10TCC-Q20
CA6	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
CA7	43 NPO	5%						
CA8	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
CA9	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
CA10	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
CA11	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
CA13	.1 100V		BBE2P1	1DP-2-104		DPMS2P1	PVC101	225P10491WD3
CA14	150 150V	5%	GPD X5F151K	CCD-151	DD-151	GP150	GP315	10TS-T15
CA15	15 NPO	5%		CCT0-150	DTZ-15	NP015	CN0415	10TCC-Q15
CA16	100 150V	5%	GPD X5F101K	CCD-101	DD-101	GP100	GP310	10TS-T10
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 5%		GPD X5F101K	CCD-101	DD-101	GP100	GP310	10TS-T10
C5	1.5 NPO	5%	GPD X5F101K	CCD-101	DD-101	GP100	GP310	10TS-T10
C6	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C7	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C8	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C9	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C11	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C12	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C14	.0015		GPD X5F152K	CCD-152	DD-152	GP10000	GP215	10TS-D15

## PARTS LIST AND DESCRIPTION (CONTINUED)

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

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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.
L209	RF Choke (12uh)	360676-1	19-1006	72F125AP	TA820
L210	Peaking (620uh)	361324-621	19-2030	4650	T871
L211	RF Choke (.9uh)	360852-11	19-1000	74F106AP	T805
L212	RF Choke (1.5uh)	360852-9	19-1001	74F156AP	T808
L213	RF Choke (5.6uh)	360676-7	19-1008	74F566AP	T820
L214	RF Choke (1uh)	360852-10	19-1000	74F106AP	T805
L215	RF Choke (1.5uh)	360852-9	19-1001	74F156AP	T808
L601	Peaking (100uh)	361091-17	19-3100 (1)	72F104AP (1)	T305 (1)
L602	Peaking (310uh)	361091-4	19-3300	6155	T318
L701	Sound Takeoff	360845-2			TB639 (3)
L702	Sound IF	360846-3	17-1048	SI-144	
L703	Quadrature	360847-2	20-1008 (4)	Q113 (4)	TB272 (4)
L705	Peaking (620uh)	360853-11	19-2030	6146	T355
L707	Peaking (180uh)	361324-181	19-3180	72F184AP	T310
L708	Peaking (120uh)	360853-4	19-3125	6153	T342
L709	Peaking (47uh)	361324-470	19-7047	72F475AP	
L710	RF Choke (5.6uh)	361323-569		74F566AP	T820
L712	3.58MC Oscillator Control	360963-3			
L713	Peaking (620uh)	360853-11	19-2030	6146	T355
L714	Peaking (620uh)	360853-11	19-2030	6146	T355
L716	RF Choke (10uh)	361365-1	19-2016	72F105AP	T823
L717	Chroma Takeoff	360959-5	17-6028		
L718	Peaking (47uh)	361324-470	19-7074	72F475AP	
L721	Adjustable Phase Shift	361393-689			
T201	1st Video IF	360951-1	17-3418	7549	T272
T202	2nd Video IF	360951-6	17-3419	7552	TB644
T203	3rd Video IF	360951-5	17-3414	7526	TA258
T204	4th Video IF/41.25MC Trap	360952-2	17-3420	6037	TF278
T701	Chroma Bandpass	361093-2			
T702	Burst	361094-2	17-6023	6043	
T703	3.58MC Oscillator	361198-2	17-6020	6041	

(1) Shunt with 3300-ohm resistor.

(2) Two required.

(3) Clip unused pins.

(4) Remove original 18pf capacitor from set.

## FILTER CHOKE

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	CURRENT (Measured)	DC RES.	INDUCTANCE (0 CURRENT 1000~)	MFR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
L301	.425ADC	16	500mh	320124-18				(1) Alternate used in non-remote versions.
L302	.62AAC	7.4	180mh	320232-12 320232-13 (1)	C-2708	20C137	C-40X	

## COILS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA					
		MFR. PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.	WORKMAN PART No.
L104	Horizontal Efficiency	361022-5					
L111	Pincushion Phase	361387-2					
L501	Horizontal Frequency & Waveform (Sine Wave)	360960-3	6318	WC-7	WC-23 (1)	WLC-23	T124
L801	Right R/G Vertical Lines (R/G Master Ampl.)	361092-10					
L802	Right R/G Horiz. Lines (R/G Diff. Ampl.)	361092-3	6348				
L803	Blue Center	361092-1					
L804	Blue Horiz. Lines Left (Blue Tilt)	361188-1	6347 H-138		WC-41		T149
L805	Right Blue Horiz. Lines (Blue Master Ampl.)	361092-5					
L806	Convergence Yoke Assembly	701280					
a	Green Coil	171018-1					
b	Blue Coil	171018-1					
c	Red Coil	171018-1					
T103	Focus	361306-1					

(1) Enlarge mounting hole.

## TRANSFORMERS (Sweep Circuits)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		MFR. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T102	Horizontal Output	361411-1 361375-2 (1)	HO-647CF			(1) Alternate
T104	Vertical Output	320376-2	VO-700C	26S86	A-305X	
T106	Top & Bottom Pincushion	361386-3				
T108	Yoke (Horiz. 11.5mh) 90° (Vert. 24.5mh)	361380-1	DY-92AC	Y110	YC-311-2	

## PARTS LIST AND DESCRIPTION (CONTINUED)

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

Replacement parts shown may be superseded by the availability of newly introduced replacements.

Have your local distributor check Sams COUNTER FACTS\* for the most up-to-date replacement.

## 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.
R631	Chromatone	270K	220193-24	TSV-250K (6) or T-250K (6)		SS6A, DC2] * U201R254B (6)	MTC254L4 (6)
R738	Chroma Alignment	750	220217-10	TSV-1K (7) or T-750 (7)		X201R751B (7)	MTC751L1 (7)
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
R808	Blue Horiz Lines Bottom (Blue Amp)	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
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 tab mount and solder original center terminal lead to case of controls.

(3) Use original nylon tab mount.

(4) Use QCB2 bushing instead of tab mount plate in TMS Kit.

(5) Alter bushing to meet requirements.

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

(7) Connect A and B terminals together. Use jumper wires to PC board.

(8) Used in non-remote chassis.

(9) Used in non-remote Chassis T962-01/-02, T962-71/-72; used in all Chassis T962-06/-76.

(10) Used in all Chassis T962-07/-77.

(11) Used in all Chassis T962-05/-06/-75/-76.

(12) May be used in some versions of Chassis T962-01/-02/-71/-72.

(13) Used in all Chassis T962-06/-76.

(14) May not 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	66M	230193-1239	R610	1800 3W Film		230193-1829
R103	5600 2W Film		230192-5629	R614	100K 1/2W Film		230190-1045
R104	1 1/2W Film		230196-1095	R616	5600 4W Film		230194-5629
R117	66meg 6KV		230161-3	R617	6800 2W Film		230192-6829
R206a	150K 1/2W		170534-2 (1)	R630	3300 3W Film		230193-3329
b	150K 1/2W			R727	6800 3W Film		230193-6829
R301	4300 5W Film		230195-4329	R756a	1meg 1/2W		170534-4 (1)
R302	2200 10W Film		240082-181	b	1meg 1/2W		
R306	820 10W Film		240082-71	R757	4700 2W Film		230192-4729
R307	6800 2W Film		230192-6829	R759a	1meg 1/2W		170534-4 (1)
R308	910 5W Film		230195-9119	b	1meg 1/2W		
R310	3300 7W Film		230197-3329	R780	27K 2W Film		230192-2739
R311	18K 4W Film		230194-1839	R784	27K 2W Film		230192-2739
R312	870 22W		240088-7	R787	22K 2W Film		230192-2239
R315	8200 3W Film		230193-8229	R792	270 3W Film		230193-2719
R515	560 2W Film		230192-5619	R794	27K 2W Film		230192-2739
R533	174K 1/2W Film		230190-1745	R799	4700 2W Film		
R537	33K 2W Film		230192-3339	RV701	Thermistor (120 CoId)		230170-5
R603	15K 7W Film		230197-1539	VDR501	VDR (2)		230167-7
R606a	1.5meg 1W		170534-1 (1)	VDR701	VDR (2)		230175-1
b	1.5meg 1W						

(1) Matched within 2%.

(2) Voltage Dependent Resistor

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
LA2	Peaking (56uh)	361365-5601		72F565AP	
LA3	Peaking (120uh)	361324-121	19-3125	72F124AP	T307
LA4	RF Choke (27uh)	361365-2701		72F275AP	
LA5	Bandpass (5-17uh)	360963-7			
LA6	RF Choke (.9uh)	360522-9	19-2009	74F106AP	T855
L1	AFT Discriminator	361384-1			
L2	AFT Detector	360892-1			
L102	RF Choke (5.6uh)	360676-8	19-1008	4609	T820
L103	RF Choke (5.6uh)	360676-5	19-1008	4609	T820
L106	Peaking (82uh)	361091-16	19-2023	72F825AP	TA813
L112a	Line Choke (65uh)	361250-1		5248 (2)	
b	Line Choke (65uh)				
L201	47.25MC Trap	360951-4		7553	TA260
L203	RF Choke (.9uh)	360852-11	19-1000	74F106AP	T805
L205	RF Choke (12uh)	361365-1201	19-2016	72F125AP	T862
L206	4.5MC Trap	360953-2	20-1057	7142	TA264
L207	Peaking (62uh)	361091-11	19-2022	6110	T302
L208	RF Choke (1.5uh)	360676-17	19-1001	74F156AP	T808

## PARTS LIST AND DESCRIPTION (CONTINUED)

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

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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.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C15	390		GPD X5F391K	CCD-391	DD-391	GP390	GP339	10TS-T39
C16	330		GPD X5F331K	CCD-331	DD-331	GP330	GP333	10TS-T33
C101	.047 150VAC		DBE6S47	4DP-3-473		DPMS6S47	PVC4147	4PS-S47
C102	.0022 2KV		HVD-302200	*	DD30-222		3HV222	30GA-D22
C113	68 N1500/4KV	#250475-24					*	
C114	180 2KV		HVD-30180	3CCD-181	DD30-181	HV6-180		30GA-T18
C115	.082 600V 5%		DBE6S82	6DP-4-823		DPMS6S82		6PS-S82
C116	.068 600V 5%		DBE6S68	6DP-4-683		DPMS6S68	PVC6168	6PS-S68
C117	22 N750/1KV	#250475-7		CCTN-270	DTN-22	N22	CN7427	10TCU-Q27
C118	130 N2200/6KV	#250475-11						
C132	20 NPO/500V 5%			CCTO-200	DTZ-20	NP020	CN0420	10TCC-Q20
C166	.1 400V		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C167	.1 400V		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C171	100 3KV 5%		HVD-30100	3CCD-101	DD30-101	HV3-100	6HV310	30GA-T10
C172	470 2.5KV 10%		HVD-30470	3CCD-471	DD30-471	HV3-470	3HV347	30GA-T47
C173	470 2.5KV 10%		HVD-30470	3CCD-471	DD30-471	HV3-470	3HV347	30GA-T47
C201	9.1pf NPO/500V 5%		NP0-DI 10		DTZ-10	NP010	CN0410	10TCC-Q10
C202	150 NPO/500V 5%		GPD X5F151K	CCD-151	DD-151	GP150	GP315	10TS-T15
C203	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C204	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C205	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C206	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C207	680 N2200 10%	#250569-1					*	10TCV-Q68
C208	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C209	.001 1KV		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C210	.001 1KV		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C211	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C212	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C214	220 N1500	#250529-2219		*				10TCW-T22
C215	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C216	470 N1500 5%	#250529-4715		*				10TCW-T47
C217	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C219	10pf NPO/500V 5%			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C220	10pf NPO/500V 5%			CCTO-100	DTZ-10	NP010	CN0410	10TCC-Q10
C221	100 NPO/500V			CCTO-101	DTZ-100	NP0100	CN0310	10TCC-T10
C222	.0022		GPD X5F222K	CCD-222	DD-222	GP2200	GP222	10TS-D22
C223	470 500V 5%		GPD X5F471K	CCD-471	DD-471	GP470	GP347	10TS-T47
C224	1.5pf 500V +.25 N3300	#250088-186		*			*	
C225	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C226	.0022		GPD X5F222K	CCD-222	DD-222	GP2200	GP222	10TS-D22
C227	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C228	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C231	2.2pf NPO 5%		GPD C0J2R2K		DTZ-2R2	NP02P2	CN0522	10TCC-V22
C301	.001 1KV		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C302	.001 1KV		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C303	.1		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C304	.22		V1614P22	4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C305	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C402	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C403	24 NPO/500V				DTZ-25	CN0425		10TCC-Q25
C404	.0033		GPD X5R332K	CCD-332	DD-332	GP3300	JF233	10TS-D33
C405	.0022 500V 10%		GPD X5F222K	CCD-222	DD-222	GP2200	GP222	10TS-D22
C409	1mf 600V	#250600-1						
C412	.47 75V		DBE2P47	1DP-4-474		DPMS2P47	PVC1047	2PS-P47
C501	.0027 N5600 10%							
C502	.022 600V 10%		DBE6S22	6DP-2-223		DPMS6S22	PVC6122	6PS-S22
C503	.0015		GPD X5F152K	CCD-152	DD-152	GP1500	GP215	10TS-D15
C504	.01 600V		DBE6S1	6DP-2-103		DPMS6S1	PVC611	6PS-S10
C505	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C506	.0027		GPD X5F272K	CCD-272	DD-272	GP2200	GP227	10TS-D27
C507	.0022		GPD X5F222K	CCD-222	DD-222	GP2200	GP222	10TS-D22
C508	.1 600V		DBE6P1	6DP-4-104		DPMS6P1	PVC601	6PS-P10
C509	.036 600V 5%	#250451-1785						
C510	.047 600V 10%		DBE6S47	6DP-3-473		DPMS6S47	PVC6147	6PS-S47
C511	.022 600V 5%	#250451-1767						
C512	.047 600V 10%		DBE6S47	6DP-3-473		DPMS6S47	PVC6147	6PS-S47
C513	.0082 1000V			16DP-3-822		DPMS20D82	PVC16282	
C514	.47 75V		DBE2P47	1DP-4-474		DPMS2P47	PVC1047	2PS-P47
C515	.001 2000V 10%	#250290-15						
C516	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C517	.047 200V		V1612S47	4DP-3-473		DPMS6S47	PVC2147	2PS-S47
C520	68 NPO 10%				DTZ-68	CN0468		10TCC-Q68
C521	68 NPO 10%				DTZ-68	CN0468		10TCC-Q68
C522	27 N750 10%				TCN-27	CN7427		10TCU-Q27
C524	820		GPD U2J270K	CCTN-270		GP820	GP382	10TS-T82
C525	.15 75V		GPD X5F821K	CCD-821	DD-821	GP820	DPMS6P15	6PS-P15
C526	.001		DBE6P15	6DP-5-154		GP1000	PVC6015	10TS-D10
C527	390 N1500/1.5KV 5%	#250569-3	GPD X5F102K	CCD-102	DD-102			
C528	.01 500V 10%		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C529	680 500V 5%		ADM-20-681	DM-16-681	CPR-680J	CD19F681J500	SX368	MS-368
C530	.0015		GPD X5F152K	CCD-152	DD-152		GP215	10TS-D15
C531	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C601	.001 N3300/2KV 10%	#250475-46						
C603	.047		V1614S47	4DP-3-473		DPMS6S47	PVC4147	4PS-S47
C604	.1		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C605	.01 1KV		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10



## PARTS LIST AND DESCRIPTION (CONTINUED)

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## CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C606	.01 1KV		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C607	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C608	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C609	.001 1KV		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C610	.001 1KV		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C611	.001 1KV		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C612	.001 1KV		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C613	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C615	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C701	3.3pf NPO/500V ±.25		GPD CQJ3R3K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C702	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C703	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C704	.0033 5%		GPD X5R332K	CCD-332	DD-332	GP3300	JF233	10TS-D33
C705	3pf N1500/500V 10%	#250529-3099						
C706	3pf N1500/500V 10%	#250529-3099						
C707	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C708	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C709	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C710	.02		GPD Z5U203P	CCD-203	DD-203		GP120	10TS-S20
C711	18 N150/500V 5%	#250427-1805						10TCC-Q18
C712	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C713	.470		GPD X5F471K	CCD-471	DD-471	GP470	GP347	10TS-T47
C714	.002 1KV		GPD X5F202K	CCD-202	DD-202	GP2000	GP220	10TS-D20
C715	.1		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C717	.47			CCTO-470	DTZ-47	NP047	CN0447	10TCC-Q47
C720	.15			6DP-5-154		DPMS6P15	PVC6015	4PS-P15
C721	.033		DBE6S33	4DP-2-333		DPMS6S33	PVC6133	4PS-S33
C722	.1		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C723	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C724	.0022		GPD X5F222K	CCD-222	DD-222	GP2200	GP222	10TS-D22
C725	150		GPD X5F151K	CCD-151	DD-151	GP150	GP315	10TS-T15
C726	470 N750/500V			CCTN-471	TCN-470	N470		10TCU-T47
C727	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C728	120 N570/500V			CCTN-121	TCN-120	N120		10TCU-T12
C729	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C730	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C732	.047		V1614S47	4DP-3-473		DPMS6S47	PVC4147	4PS-S47
C733	.0022		GPD X5F222K	CCD-222	DD-222	GP2200	GP222	10TS-D22
C734	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C735	330 100V 5%		GPD X5F331K	CCD-331	DD-331	GP330	GP333	10TS-T33
C736	.001		GPD X5F102K	CCD-102	DD-102	GP1000	GP210	10TS-D10
C737	.1		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C738	390		GPD X5F391K	CCD-391	DD-391	GP390	GP339	10TS-T39
C739	390		GPD X5F391K	CCD-391	DD-391	GP390	GP339	10TS-T39
C741	27 NPO/500V 10%			CCTO-270	TCZ-27	NP027	CN0427	10TCC-Q27
C742	18 NPO/500V			CCTO-180	TCZ-18	NP018	CN0418	10TCC-Q18
C743	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C744	330 N1500/500V 5%	#250529-3315						10TCW-T33
C745	330 N1500/500V 5%	#250529-3315						10TCW-T33
C746	330 N1500/500V 5%	#250529-3315						10TCW-T33
C747	330 N1500/500V 5%	#250529-3315						10TCW-T33
C748	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C749	.1		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C750	3.9pf NPO					NP03P9		10TCC-V39
C751	39 NPO				TCZ-39	CPR-10000J	CN0439	10TCC-Q39
C752	.01		V1614S1	4DP-1-103	DD-103	DPMS6S1	PVC411	4PS-S10
C753	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C754	220 N750		N750-DI 220	CCTN-221	DTN-220	N220	CN7322	10TCU-T22
C755	15 NPO/500V 5%			CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C756	82 NPO/500V 5%			CCTO-820	DTZ-82	NP082	CN0482	10TCC-Q82
C757	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C758	15 NPO/500V 5%			CCTO-150	DTZ-15	NP015	CN0415	10TCC-Q15
C759	150		GPD X5F151K	CCD-151	DD-151	GP150	GP315	10TS-T15
C760	150 600V 5%		GPD X5F151K	CCD-151	DD-151	GP150	GP315	10TS-T15
C761	18 NPO/500V 10%			CCTO-180	TCZ-18	NP018	CN0418	10TCC-Q18
C762	18 NPO/500V 10%			CCTO-180	TCZ-18	NP018	CN0418	10TCC-Q18
C763	100		GPD X5F101K	CCD-101	DD-101	GP100	GP310	10TS-T10
C764	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C765	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C766	.01 1KV		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C767	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C768	.01 1KV		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C769	12 NPO/500V 5%			CCTO-120	NP012	CN0412		10TCC-Q12
C770	.01		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C771	.01 1KV		GPD X5S103K	CCD-103	DD-103	GP10000	JF110	10TS-S10
C772	.470		GPD X5F471K	CCD-471	DD-471	GP470	GP347	10TS-T47
C773	.047		V1614S47	4DP-3-473	DTZ-47	DPMS6S47	PVC4147	4PS-S47
C774	.47 NPO/500V 5%			CCTO-470		NP047	CN0447	10TCC-Q47
C775	.1		DBE4P1	4DP-3-104		DPMS4P1	PVC401	4PS-P10
C776	.0022		GPD X5F222K	CCD-222	DD-222	GP2200	GP222	10TS-D22
C803	.056		DBE6S56	4DP-3-563		DPMS6S56	PVC6156	4PS-S56
C804	.12		DBE6P15	4DP-4-154		DPMS4P15	PVC6015	4PS-P15
C805	.12		DBE6P15	4DP-4-154		DPMS4P15	PVC6015	4PS-P15
C806	.22		V1614P22	4DP-5-224		DPMS4P22	PVC4022	4PS-P22
C808	.33		V1616P33	6DP-6-334		DPMS6P33	PVC6033	
C809	.018		DBE6S15	4DP-1-153		DPMS6S15	PVC6115	4PS-S15
C810	.0047		DBE6D47	6DP-1-472		DMS6D47	PVC6247	6PS-D47

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

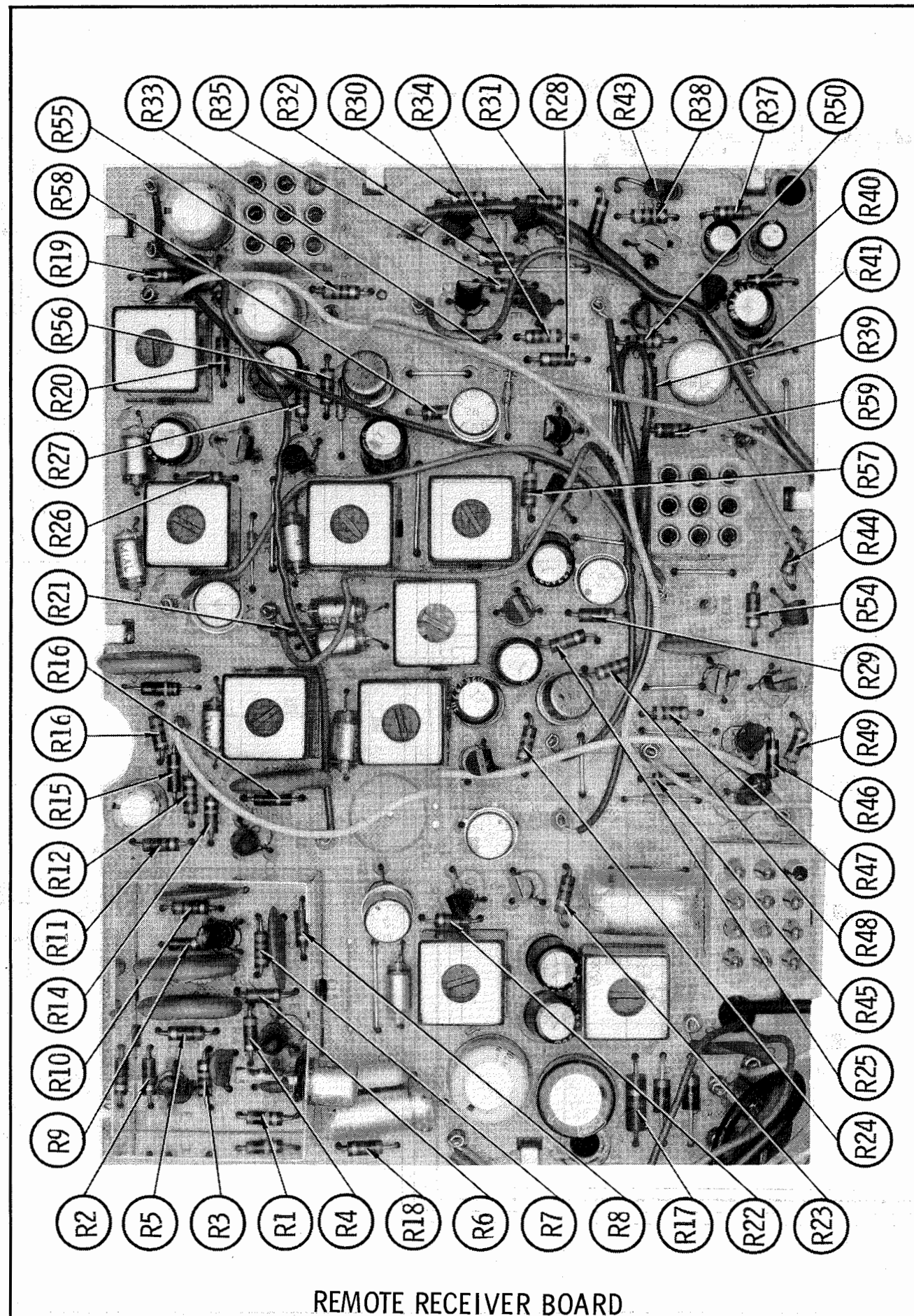
## PARTS LIST AND DESCRIPTION (CONTINUED)

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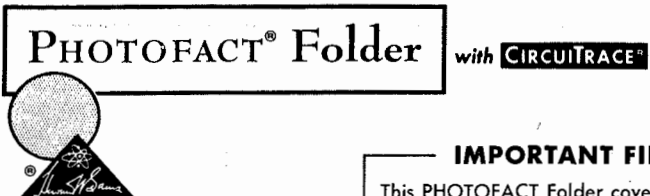
## CONTROLS (All wattages 1/2 watt, or less, unless listed)

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
R108	Horizontal 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]
R114	Pincushion Amplitude	60 2W	220181-16	WT50, WSK104 or WB-50 or V-60 (1)	U39-75 (1)	P115R500A, P115-117-1	MR50T, MRS1250 or MR50B
R126	Vertical Centering	10 2W	220181-1	WT-10 or WB-10	U39-10 (1) or [W11-010, SK5] or [BU1, WF16, SS6A] *	P115R100A or [B11-137, TM4 or [BU11, CF17, SS6A] *	MR10T or MR10B or VM10
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]
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	847-2500-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
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	Horizontal Centering	10 2W	220181-12	WP-15 (3) or V-10 (2)	U39-15 (2)	P115R100A (3)	MR15P (3)
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, DC] *	TRS751L
R401	Volume (Motor Driven)	1meg	220232-36				
R402	Volume/Switch	1meg	220260-31 (8)				
R403	Color (Motor Driven)	500	220232-43				
	Color	500	220232-44 (9)				
	Color	500	220267-10 (10)				
	Tint (Slider Type)	1200	220255-53				
	Tint	1200	220232-34 (11)				
R404	Tint	1200	220267-11 (10)				
	Tint	1200	220255-40 (12)				
	Brightness (Slider Type)	250K	220255-54				
	Brightness	250K	220247-6 (13)				
	Brightness	250K	220267-17 (10)				
R405	Contrast (Slider Type)	600	220255-52				
	Contrast	600	220232-24 (13)				
R406	Contrast Preference (Slider Type)	600	220267-16 (10)				
	Preference	6000	220255-55				
R407	Preference	6000	220247-15 (13)				
R408	Tone (Slider Type)	3meg	220267-18 (10)				
	Vertical Hold (Slider Type)	250K	220255-51 (14)				
	Vertical Hold	250K	220255-54				
R608	High Voltage Adjust	500K	220247-6 (13)				
		500K	220267-17 (10)				
R612	Vertical Linearity	500K	220166-26	F1-500K, SNK010, AK-40	NP-500K-S, UP-N-100, TT-3	B11-133, TM9 or [BU11, CF16, SS6A, DC2] *	TRS55L
R619	Height	3.4meg	220166-39	F1-500K, SNK100, AK-40	NP-500K-S, UP-N-100, TT-3	B11-133, TM9 or [BU11, CF16, SS6A, DC2] *	TRS55L
R620	Green Drive	9000	220166-40	F1-4meg, SNK100, AK-40	NP-4meg-S, UP-N-100, TT-3	B11-240, TM9 or [BU11, CF21, SS6A, DC2] *	TRS36L
R621	Blue 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] *	
R622	Red 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] *	
R624	Blue Screen	1.5meg	220166-37	F1-10K, SNK100, AK-40	NP-10K-S, UP-N-100, TT-3	B11-116, TM9 or [BU11, CF9, SS6A, DC2] *	
R625	Green Screen	1.5meg	220166-17	F1-1.5meg, SNK104, AK-40		B11-138, TM9 or [BU11, CF18, SS6A, DC2] *	TRS26L
R626	Red Screen	1.5meg	220166-16	F1-1.5meg, SNK104, AK-40		B11-138, TM9 or [BU11, CF18, SS6A, DC2] *	TRS26L
			220166-18	F1-1.5meg, SNK104, AK-40		B11-138, TM9 or [BU11, CF18, SS6A, DC2] *	TRS26L



SET 1253 FOLDER 2-A

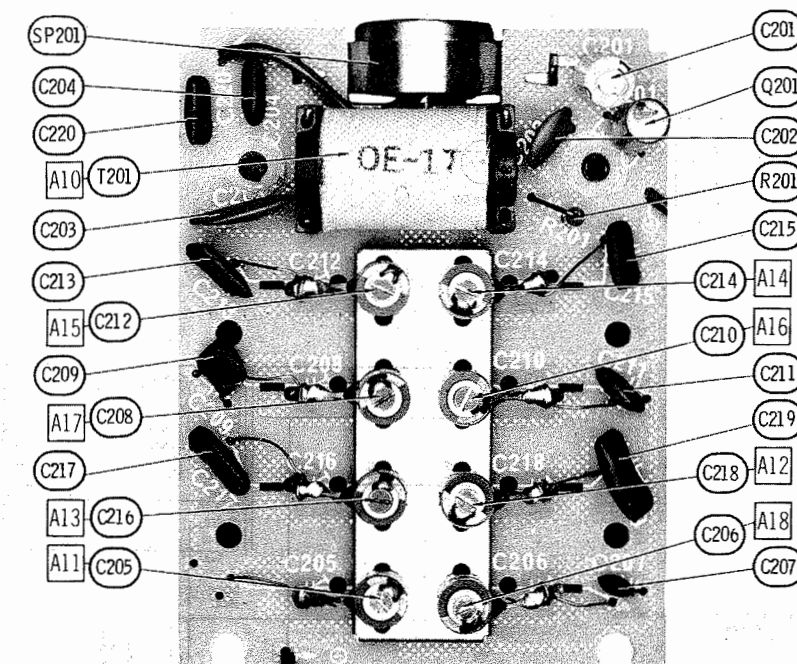
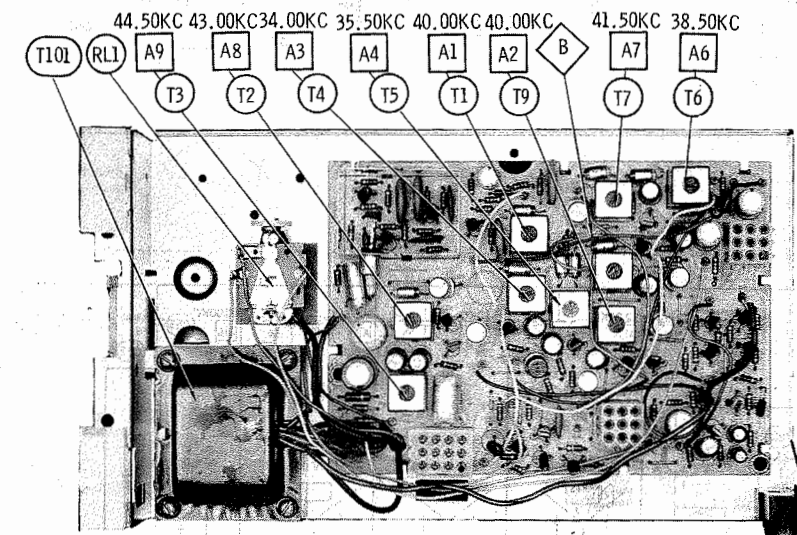
MAGNAVOX REMOTE CONTROL  
RECEIVER 704064-1, TRANSMITTER 704061-1



**MAGNAVOX REMOTE CONTROL  
RECEIVER 704064-1, TRANSMITTER 704061-1**

#### IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 1253 FOLDER 1. File this Folder with the TV Folder in the yellow filing jacket provided.



**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. 2PB435

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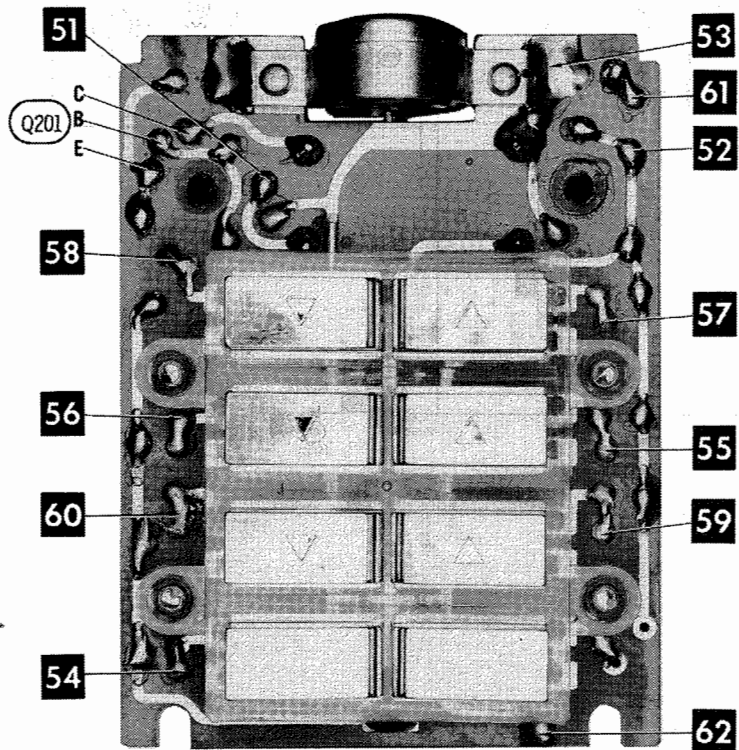
DATE 6-72

SET 1253 FOLDER 2-A

MAGNAVOX REMOTE CONTROL  
RECEIVER 704064-1, TRANSMITTER 704061-1

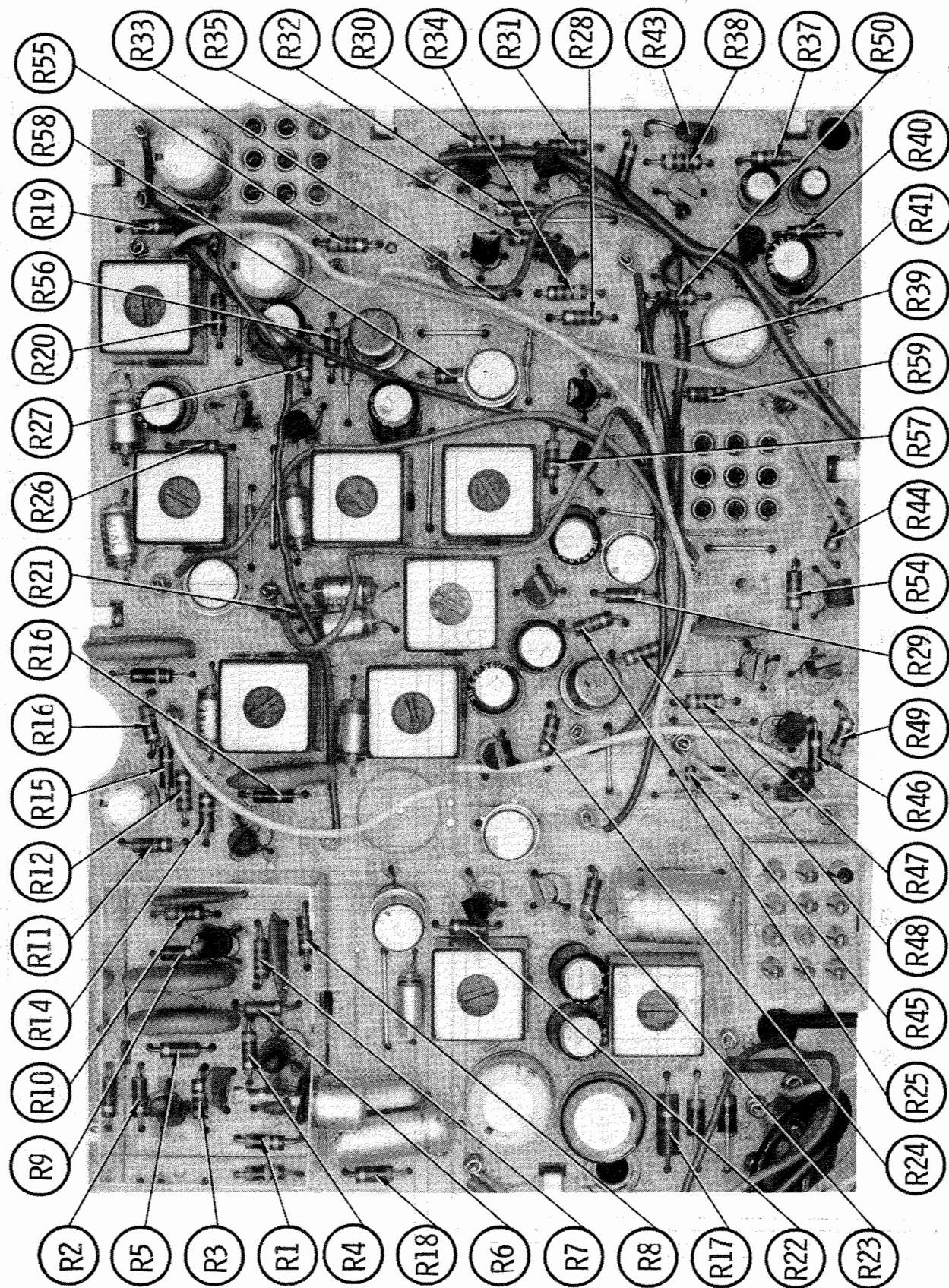
SET 1253 FOLDER 2-A



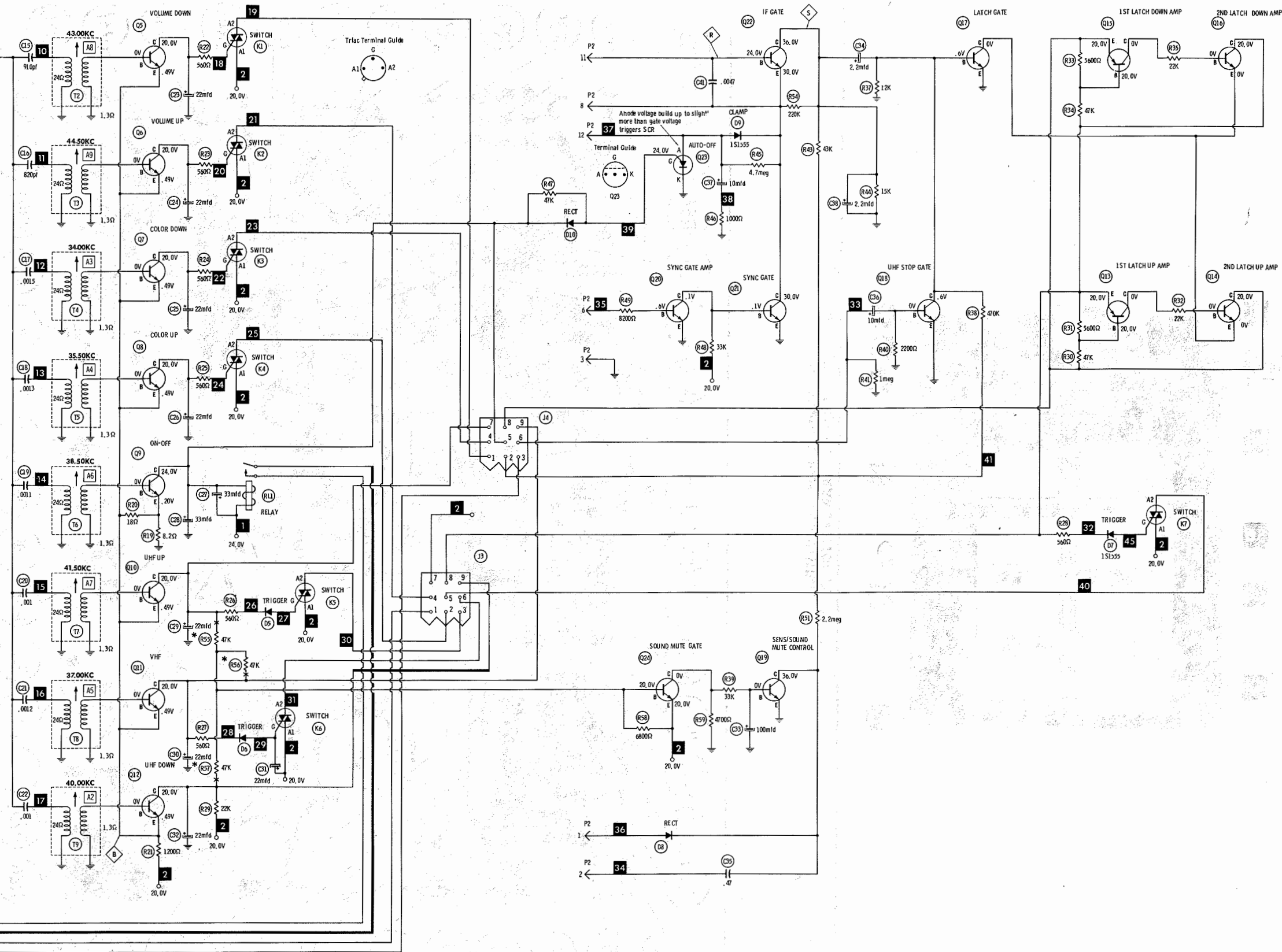
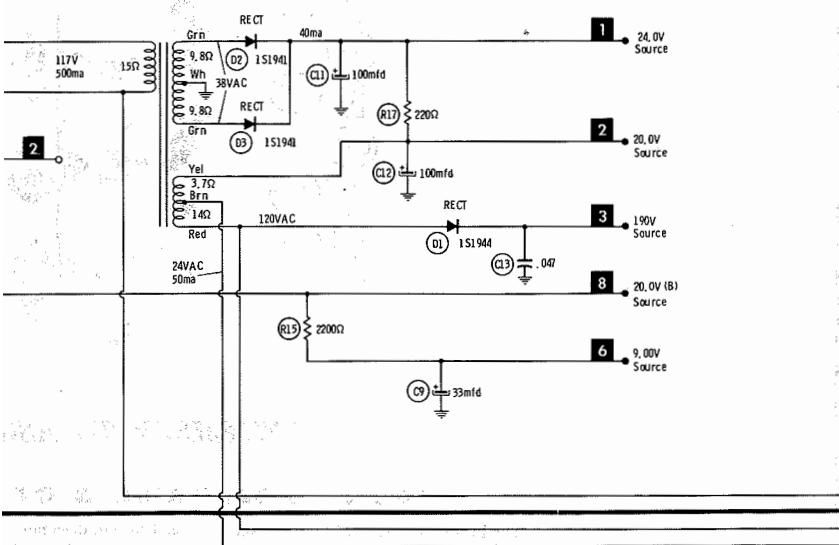


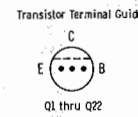
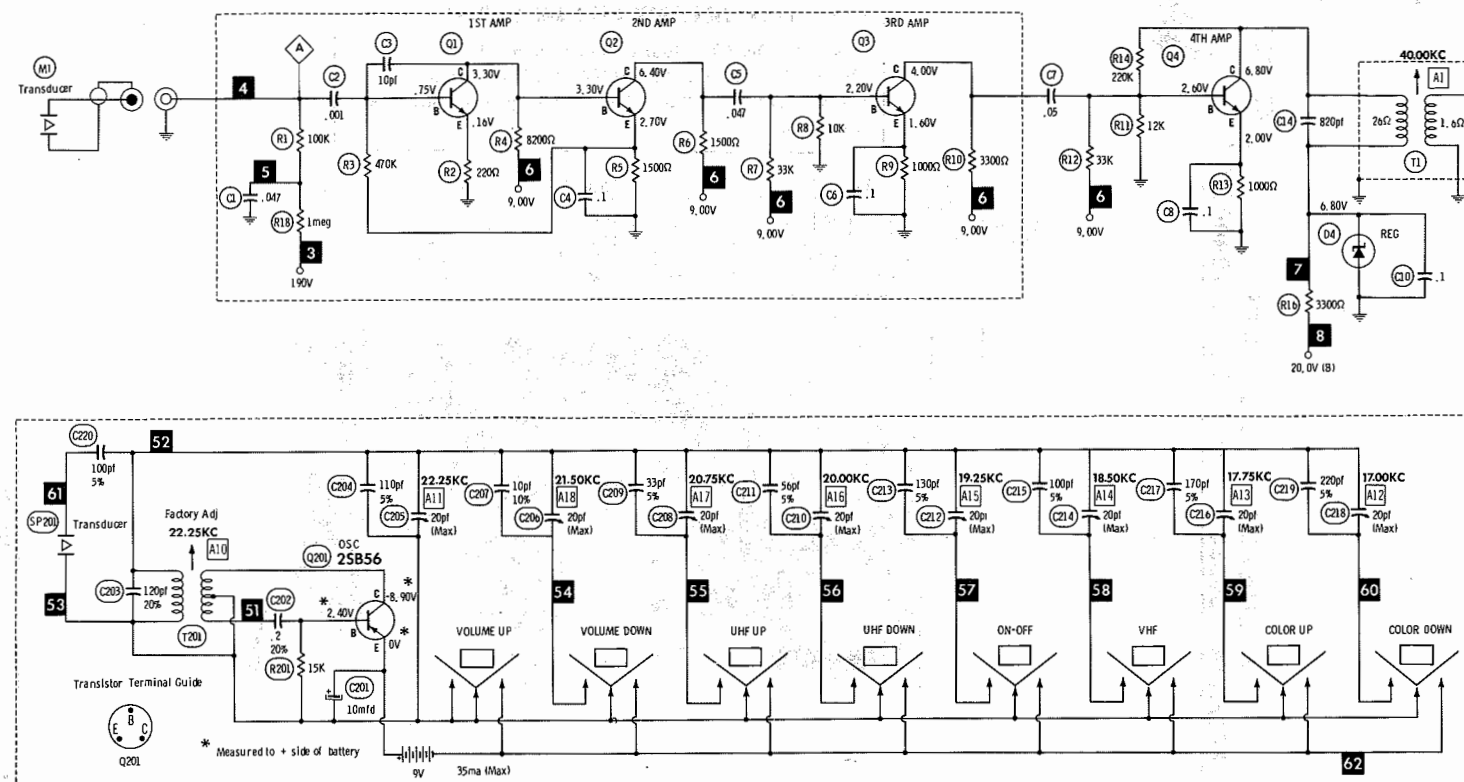
MAGNAVOX REMOTE CONTROL  
RECEIVER 704064-1, TRANSMITTER 704061-1

FOLDER 2-A



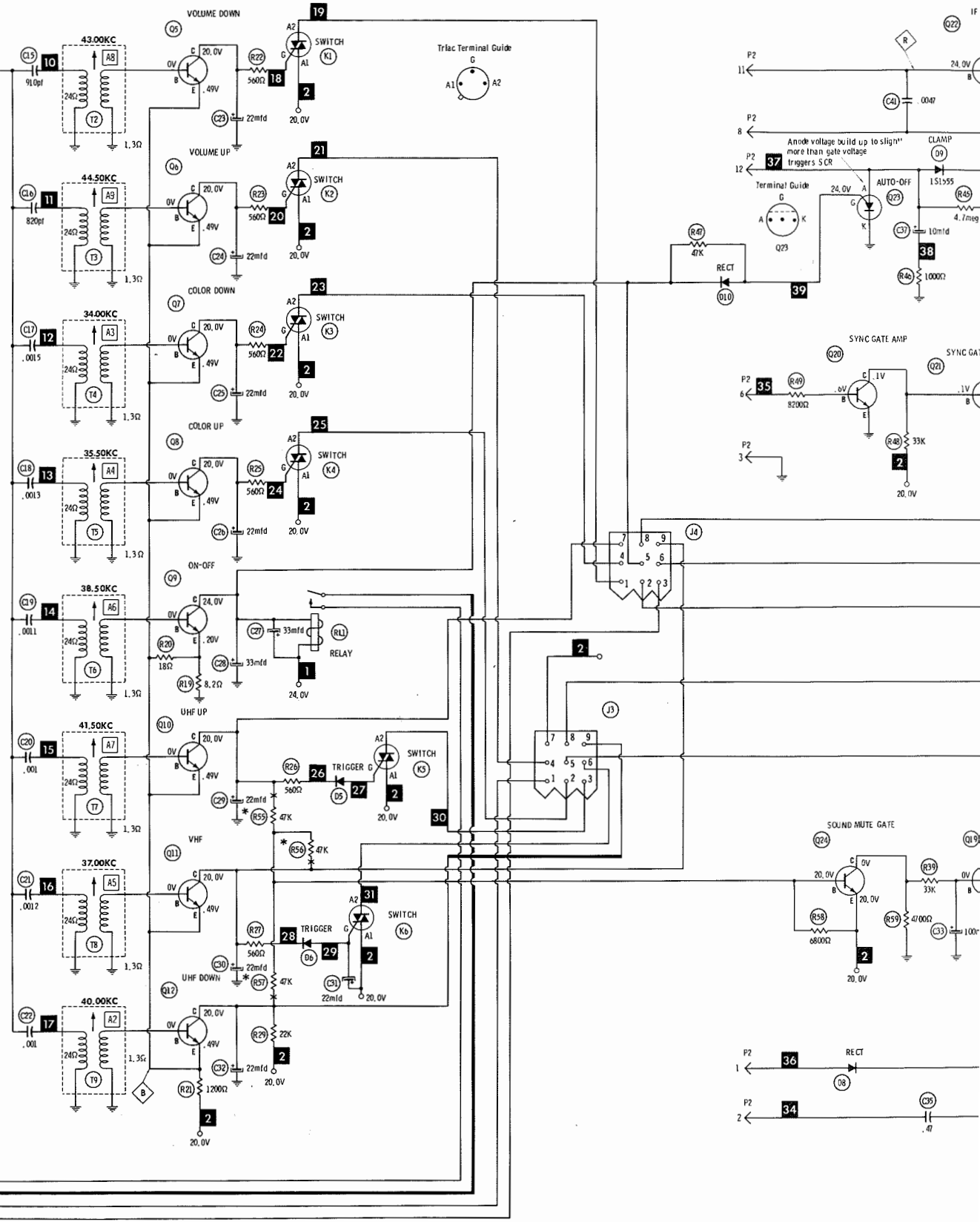
REMOTE RECEIVER BOARD



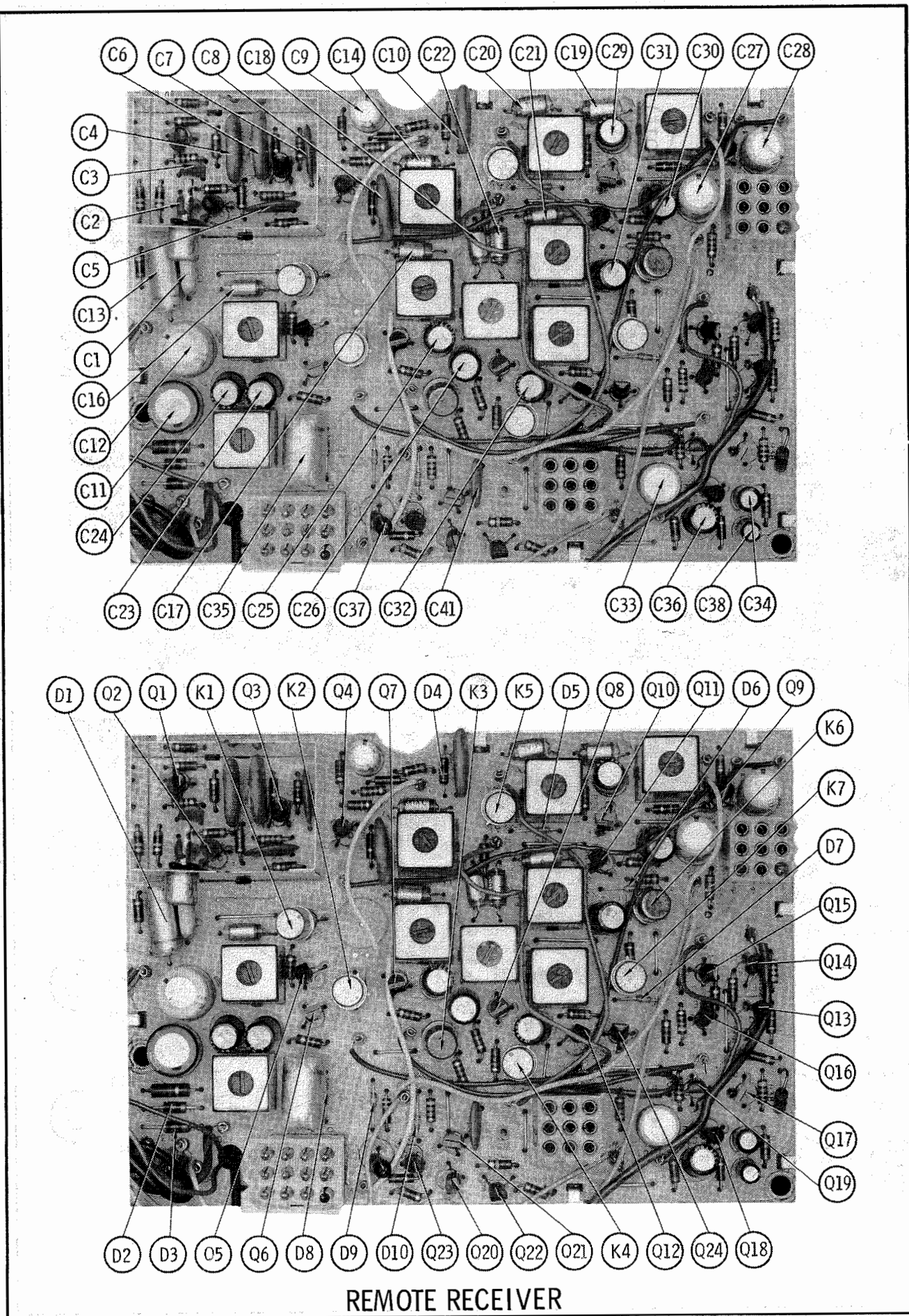


— Denotes ground. (Voltage reference unless otherwise indicated).  
 — Indicates connection used in some versions.  
 — Indicates connection not used in some versions.  
 \* Omitted in some versions.  
 e See parts list.  
 Values shown in ( ) are used in some applications.  
 Resistors are 1/2W or less, 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.  
 Numbers assigned to terminals may not be found on the unit.

A PHOTOFACT STANDARD NOTATION SCHEMATIC  
 with **CIRCUITRACE**  
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### REMOTE CONTROL RECEIVER ALIGNMENT

Use a crystal controlled signal generator or depress button on transmitter known to be operating correctly. Suggested Alignment Tools: A1 thru A9 GC ELECTRONICS 8728A. Connect high side of a crystal controlled signal generator thru .01mfd capacitor to Point  $\Delta$ , low side to ground. Use only enough signal strength to give a usable indication.

DEPRESS	GENERATOR FREQUENCY	CONNECT VTVM	ADJUST	REMARKS
UHF Down Button	40.00KC	DC probe to Point $\Delta$ , low side to ground.	A1,A2	Adjust for maximum.
Color Down Button	34.00KC	"	A3	"
Color Up Button	35.50KC	"	A4	"
VHF Button	37.00KC	"	A5	"
On-Off Button	38.50KC	"	A6	"
UHF Up Button	41.50KC	"	A7	"
Volume Down Button	43.00KC	"	A8	"
Volume Up Button	44.50KC	"	A9	"

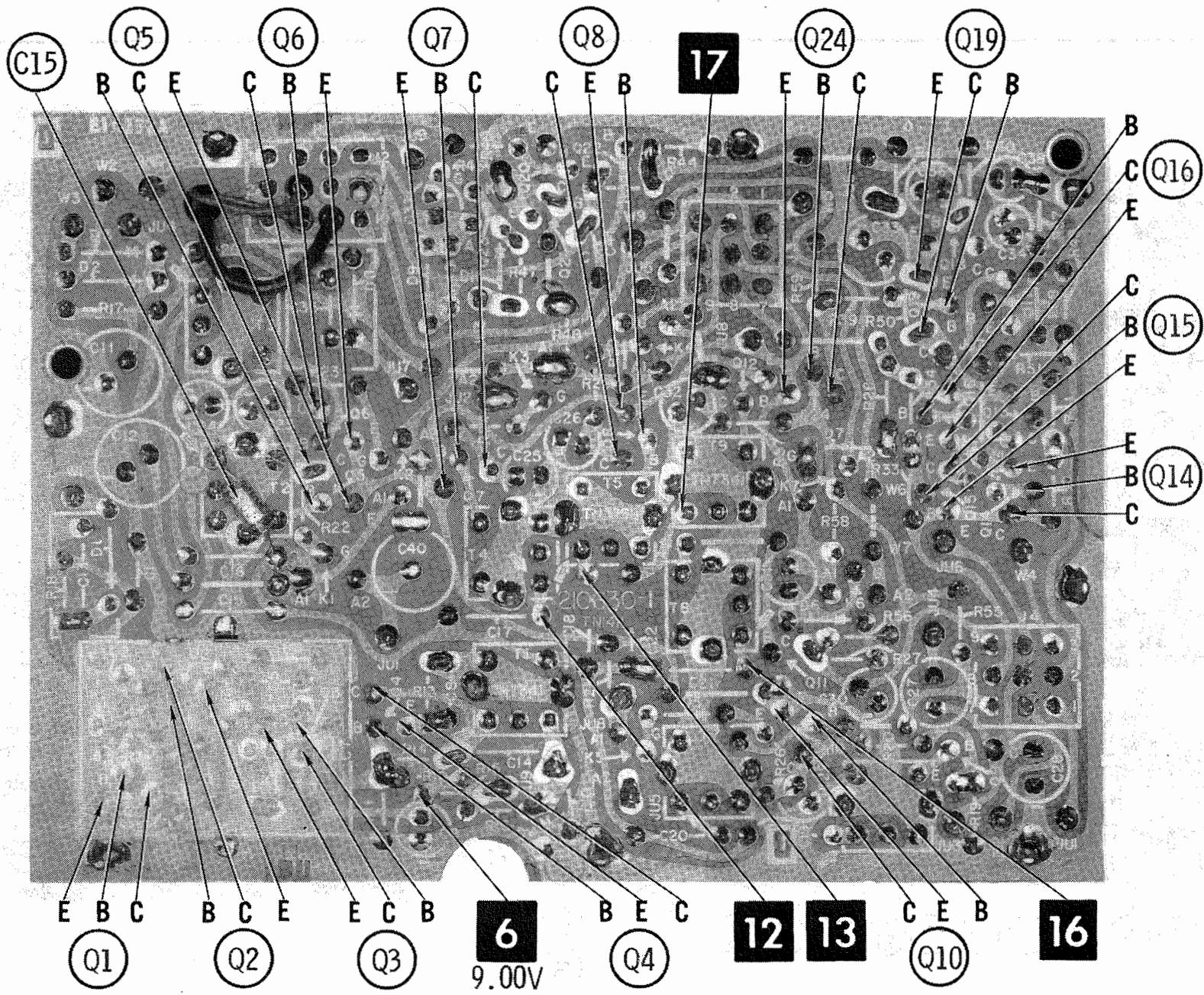
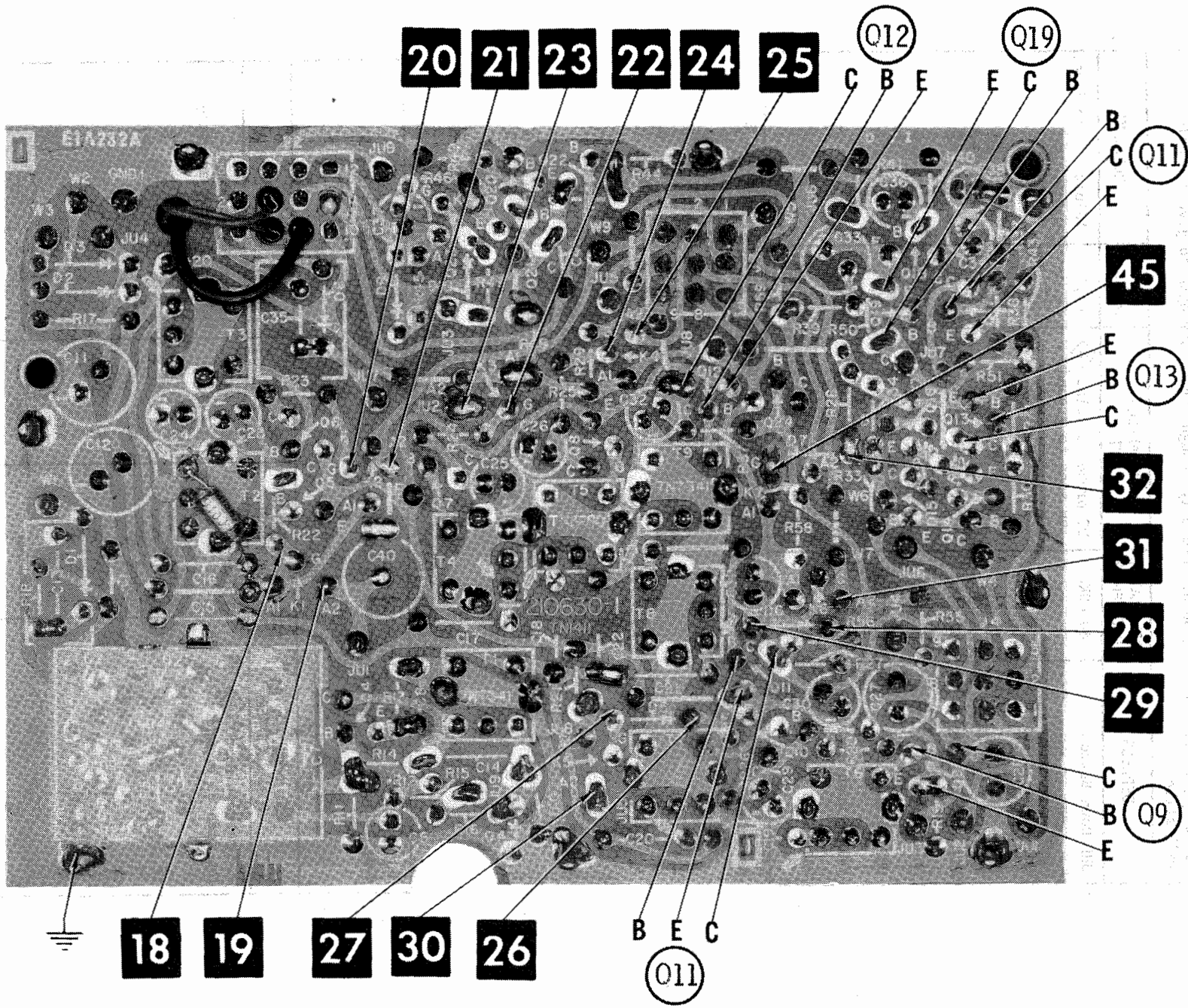
After completed Alignment, the Sensitivity Control should be adjusted while using Associated Transmitter for an approximate range of 35 feet maximum.

### REMOTE CONTROL TRANSMITTER ALIGNMENT

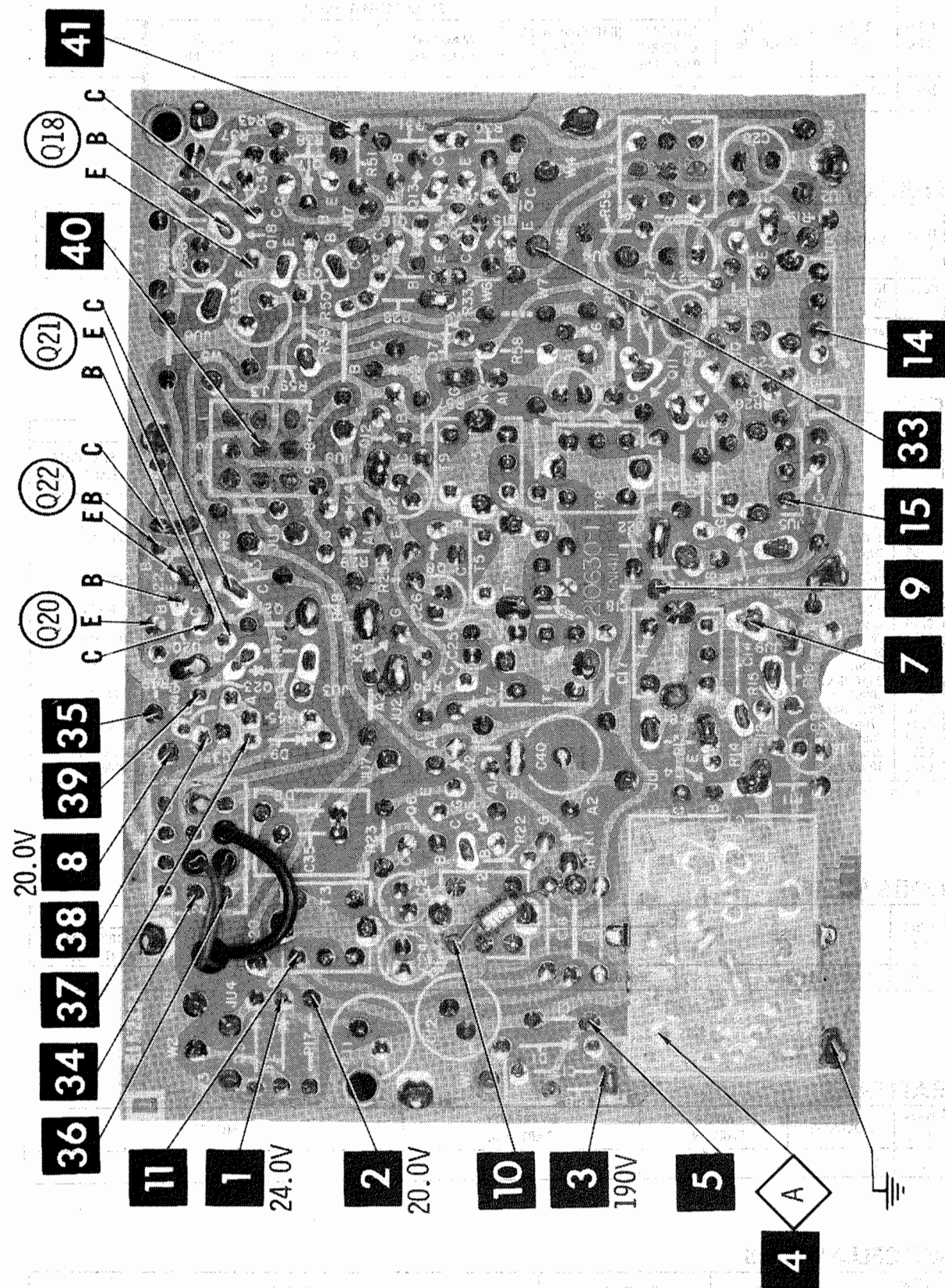
Suggested Alignment Tools: A10 thru A18 GC ELECTRONICS 8282  
Alignment of transmitter should be approximately eight feet from receiver.

DEPRESS			
CONNECT VTVM (ON RECEIVER)	TRANSMITTER BUTTON	ADJUST	REMARKS
DC probe to Point $\Delta$ , low side to ground.	Volume Up	A10, A11	Adjust for maximum. (A10 is factory adjusted.)
"	Color Down	A12	"
"	Color Up	A13	"
"	VHF	A14	"
"	On-Off	A15	"
"	UHF Down	A16	"
"	UHF Up	A17	"
"	Volume Down	A18	"









A Howard W. Sams **CIRCUITRACE**® Photo **REMOTE RECEIVER BOARD**

## REMOTE CONTROL RECEIVER PARTS LIST AND DESCRIPTION

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

### SEMICONDUCTORS

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA					
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.	MOTOROLA PART No.
D1		530082-4	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 116 or ECG 117	
D2		530082-4	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 116 or ECG 117	
D3		530082-4	GE-504A	8D4 or 5A4D	PTC201 or PTC202	SK3030 or SK3031	ECG 116 or ECG 117	
D4		530145-689(1)		Z1106			ECG 5071	
D5		530072-11					ECG 177	
D6		530072-11					ECG 177	
D7		530072-11					ECG 177	
D8		530072-11					ECG 177	
D9		530072-11					ECG 177	
D10		530072-11					ECG 177	
K1		611001-5				SK3114	ECG 5642	
K2		611001-5				SK3114	ECG 5642	
K3		611001-5				SK3114	ECG 5642	
K4		611001-5				SK3114	ECG 5642	
K5		611001-5				SK3114	ECG 5642	
K6		611001-5				SK3114	ECG 5642	
K7		611001-5				SK3114	ECG 5642	
Q1	70N4	610070-4	GE-20	TR-21	PTC125	SK3018	ECG 123A	HEP55
Q2	70N4	610070-4	GE-20	TR-21	PTC125	SK3018	ECG 123A	HEP55
Q3	70N4	610070-4	GE-20	TR-21	PTC125	SK3018	ECG 123A	HEP55
Q4	70N4	610070-4	GE-20	TR-21	PTC125	SK3018	ECG 123A	HEP55
Q5	142N4	610142-4	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q6	142N4	610142-4	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q7	142N4	610142-4	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q8	142N4	610142-4	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q9	128N2	610128-2	GE-18	TR-24	PTC125	SK3024	ECG 128	HEP713
Q10	142N4	610142-4	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q11	142N4	610142-4	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q12	142N4	610142-4	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q13	120P1	610120-1	GE-21	TR-30	PTC127	SK3114	ECG 159	HEP715
Q14	142N3/168N1	610142-3	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q15	120P1	610120-1	GE-21	TR-30	PTC127	SK3114	ECG 159	HEP715
Q16	142N3/168N1	610142-3	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q17	142N3/168N1	610142-3	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q18	142N3/168N1	610142-3	GE-18	TR-24	PTC125	SK3020	ECG 123A	HEP729
Q19	168N1/70N4	610070-4	GE-20	TR-21	PTC125	SK3018	ECG 123A	HEP55
Q20	77N4	610077-4	GE-20	TR-21	PTC125	SK3020	ECG 123A	HEP55
Q21	77N4	610077-4	GE-20	TR-21	PTC125	SK3020	ECG 123A	HEP55
Q22	122N2	610128-2	GE-18	TR-24	PTC125	SK3024	ECG 128	HEP713
Q23	121S2	610121-2					ECG 6402	
Q24	120P1	610120-1	GE-21	TR-30	PTC127	SK3114	ECG 159	HEP715

(1) Zener (6.8V)

### ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA							
		MFG. PART No.	AEROVOX PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C9	33 25V	270109-3125	MCD-110	ME-4-G-035	EP30-25	WBR35-50	MT1-13.5	MTV30CB25	TE-1207.5
C11	100 50V	270109-1250	PRS1360	RME-K-J-100	EA50-100	WBR100-50	MT1-20.5	MTV100DE50	TE-1309
C12	100 50V	270109-1250	PRS1360	RME-K-J-100	EA50-100	WBR100-50	MT1-20.5	MTV100DE50	TE-1309
C23	22 25V	270109-2125	MCD-90	ME-3-G-020	EP30-25	WBR25-25	MT1-11	MTV20CB50	TE-1206
C24	22 25V	270109-2125	MCD-90	ME-3-G-020	EP30-25	WBR25-25	MT1-11	MTV20CB50	TE-1206
C25	22 25V	270109-2125	MCD-90	ME-3-G-020	EP30-25	WBR25-25	MT1-11	MTV20CB50	TE-1206
C26	22 25V	270109-2125	MCD-90	ME-3-G-020	EP30-25	WBR25-25	MT1-11	MTV20CB50	TE-1206
C27	33 50V	270109-3150	MCD-120	ME-4-J-030	EP50-25	WBR35-50	MT1-14	MTV30DB75	TE-1411
C28	33 50V	270109-3150	MCD-120	ME-4-J-030	EP50-25	WBR35-50	MT1-14	MTV30DB75	TE-1411
C29	22 25V	270109-2125	MCD-90	ME-3-G-020	EP30-25	WBR25-25	MT1-11	MTV20CB50	TE-1206
C30	22 25V	270109-2125	MCD-90	ME-3-G-020	EP30-25	WBR25-25	MT1-11	MTV20CB50	TE-1206
C31	22 25V	270109-2125	MCD-90	ME-3-G-020	EP30-25	WBR25-25	MT1-11	MTV20CB50	TE-1206
C32	22 25V	270109-2125	MCD-90	ME-3-G-020	EP30-25	WBR25-25	MT1-11	MTV20CB50	TE-1206
C33	100 10V	270109-1210	MCD-180	RME-E-D-100	EP15-100	WBR100-16	MT1-19	MTV100CB10	TE-1135
C34	4.7 50V	270109-5050	MCD-50	RME-B-H-005	EP50-5	WBR5-50	MT1-3	MTV5CB50	TE-1303
C36	10 50V	270109-1150	MCD-70	RME-D-J-010	EP50-10	WBR10-50	MT1-6	MTV10CB50	TE-1304
C37	10 10V	270110-4	CRE457A	ME-1-D-010	EA15-10	WBR10-25	MT1-5	MTA10D35	TE-1128
C38	2.2 50V	270109-2050	MCD-30	RME-A-J-002	EP50-2	WBR2-50	MT1-1	MTV2CB50	TE-1301



REMOTE CONTROL RECEIVER  
PARTS LIST AND DESCRIPTION (CONTINUED)

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

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	.047		V1614S47	4DP-3-473	DD-102	DPMS6S47	PVC4147	4PS-S47
C2	.001		GPD X5F102K	CCD-102	DTZ-10	GP1000	GP210	10TS-D10
C3	10pf	10%		CCT0-100	CK-104	NP010	CN0410	10TCC-Q10
C4	.1	50V	TTP-1				TA010	TG-P10
C5	.05	50V	TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C6	.1	50V	TTP-1		CK-104		TA010	TG-P10
C7	.05	50V	TTP-05	CCD-503	CK-503	MGP05	TA150	TGL-S50
C8	.1	50V	TTP-1		CK-104		TA010	TG-P10
C10	.1	50V	TTP-1		CK-104		TA010	TG-P10
C13	.047		V1614S47	4DP-3-473		DPMS6S47	PVC4147	4PS-S47
C14	820pf	35V 10%		DM-19-821		CD19F821J500	SX382	MS-382
C15	910pf	35V 10%		DM-19-911	CPR-910J	CD19F821J500	SX391	MS-391
C16	820pf	35V 10%		DM-19-821		CD19F821J500	SX382	MS-382
C17	.0015	35V 10%		DM-19-152	CPR-1500J	CD19F152J500	SX215	MS-215
C18	.0013	35V 10%						
C19	.0011	35V 10%		DM-19-112	CPR-1100J	CD19F112J500	SX211	MS-211
C20	.001	35V 10%		DM-19-102J	CPR-1000J	CD19F102J500	SX210	424ME1001J501
C21	.0012	35V 10%		DM-19-122	CPR-1200J	CD19F122J500	SX212	MS-212
C22	.001	35V 10%		DM-19-102J	CPR-1000J	CD19F102J500	SX210	424ME1001J501
C35	.47	75V 10%	DBE2P47	2DP-5-474		DPMS2P47	PVC2047	2PS-P47
C41	.0047		GPD X5R472K	CCD-472	DD-472G	GP4700	JF247	10TS-D47

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
T1	Broad Band Output	361414-1			
T2	Volume Down	361414-2			
T3	Volume Up	361414-2			
T4	Color Down	361414-2			
T5	Color Up	361414-2			
T6	On-Off	361414-2			
T7	UHF Search-up	361414-2			
T8	VHF Search	361414-2			
T9	UHF Search-down	361414-2			

TRANSFORMER (Power)

ITEM No.	RATING			REPLACEMENT DATA				NOTES
	PRI.	SEC. 1	SEC. 2	MFG. PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T101	117VAC @.5AAC	120VAC @0ma 24VAC @50maAC	38VAC/CT @19VAC @40ma DC	300264-2 (1)				(1) Has internal fuse. Do not replace fuse, if trouble occurs, replace Transformer.

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M1 RL1	Transducer Relay	570021-1 160413-9	Mic On-Off

REMOTE CONTROL TRANSMITTER PARTS LIST AND DESCRIPTION

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

SEMICONDUCTORS

ITEM No.	TYPE No.	MFG. PART No.	REPLACEMENT DATA				
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SYLVANIA PART No.
Q201	2SB56		GE-2	TR-14	PTC109	SK3004	ECG 102

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA							
		MFG. PART No.	AEROVOX PART No.	ARCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C201	10 16V 10 12V	27J002-1 (1)							

(1) Alternate used in some versions.

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	ARCO/ELMENCO PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.
C202	.2 12V		V1616P2	6DP-5-204	DD-101	DPMS6P2	PVC602	6PS-P20
C203	120pf 1KV		GPD X5F101K	CCD-101	DD30-101	GP100	GP310	10TS-T10
C204	110pf 2KV 5%		HVD-30100	3CCD-101		HV3-100	6HV310	30GA-T10
C205	20pf Max. 500V 10%	#25J005-1						
C206	20pf Max. 500V 10%	#25J005-1						
C207	10pf 2KV 10%		HVD-3010	3CCD-100	DD30-100	HV3-10		30GA-Q10
C208	20pf Max. 500V 10%	#25J005-1						
C209	33pf 2KV 5%		HVD-3033	3CCD-333	DD30-330	HV3-33		30GA-Q33
C210	20pf Max. 500V 10%	#25J005-1						
C211	56pf 2KV 5%		HVD-3056	3CCD-560	DD30-560			30GA-Q56
C212	20pf Max. 500V 10%	#25J005-1						
C213	130pf 2KV 5%		HVD-30120	3CCD-121	DD30-121	HV3-120	6HV312	30GA-T12
C214	20pf Max. 500V 10%	#25J005-1						
C215	100pf 2KV 5%		HVD-30100	3CCD-101	DD30-101	HV3-100	6HV310	30GA-T10
C216	20pf Max. 500V 10%	#25J005-1						
C217	170pf 2KV 5%		HVD-30180	3CCD-151	DD30-151	HV3-150	6HV315	30GA-T15
C218	20pf Max. 500V 10%	#25J005-1						
C219	220pf 2KV 5%		HVD-30220	3CCD-221	DD30-221	HV3-220	3HV322	30GA-T22
C220	100pf 2KV 10%		HVD-30100	3CCD-101	DD30-101	HV3-100	6HV310	30GA-T10

# Magnavox Part Number.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		PART No.	MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
T201	23KC Oscillator	36J003-1			

BATTERIES

ITEM No.	VOLTAGE	MFG. PART No.	EVEREADY PART No.	NOTES
M1	9V		E126	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
SP201	Transducer	58J001-1	