

**CABINET-REAR VIEW
DISASSEMBLY INSTRUCTIONS**

CHASSIS REMOVAL

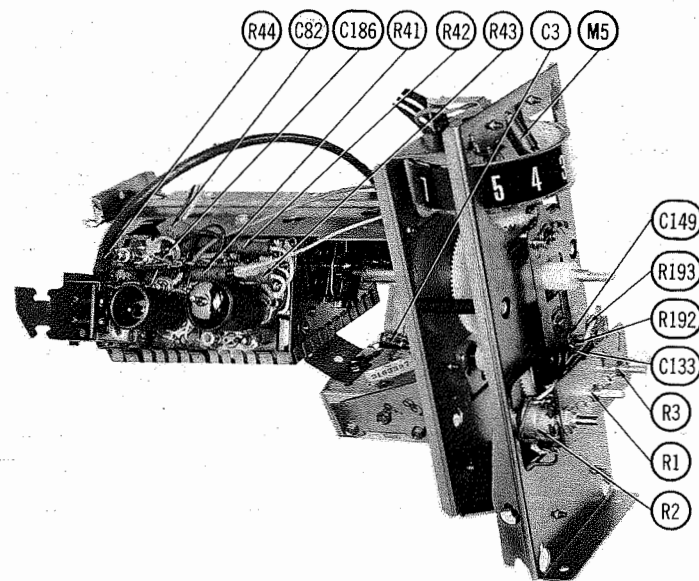
Note: All components can be serviced by removal of cabinet back and bottom.

1. Turn 7 plastic retainers holding back, disconnect antenna leads, and remove cabinet back. Remove 10 screws holding bottom plate to the cabinet.
2. Remove all knobs and remove screw holding control panel to the front of cabinet.
3. Remove picture-tube socket, convergence plug, yoke plug, degaussing plug, tuner plugs, speaker leads, and high-voltage anode lead.
4. Remove 4 screws holding chassis to the cabinet. Loosen 4 screws holding tuner assembly to the cabinet front. Remove 4 screws hold-

ing convergence assembly and remove chassis and tuner assembly from the cabinet.

PICTURE TUBE REMOVAL

1. Follow "Chassis Removal" procedure and lay set face down on a soft protective surface.
2. Remove blue lateral and purity ring from the picture-tube mask. Remove convergence yoke and deflection yoke from the picture-tube neck.
3. Remove springs and screws holding degaussing coils and shield to the cabinet.
4. Remove 8 screws holding picture tube to the cabinet front. Do not lift picture tube by the neck of the tube.



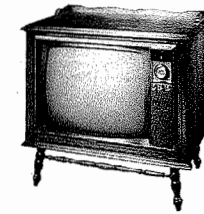
TUNER ASSEMBLY

PHOTOFACT® Folder

For Supplier Address See PHOTOFACT Index

**ZENITH
CHASSIS 16Z8C50**

COLOR TV



MODEL T2981M07

IMPORTANT FILING NOTICE

Some models covered by this PHOTOFACT Folder employ chassis in addition to the TV chassis. PHOTOFACT Folders covering these additional chassis are packaged immediately behind this Folder and should be filed with this Folder in the yellow filing jacket provided. For specific coverage see index below.

INDEX

Remote Control Receiver S-77536,
Transmitter S-83596 . SET 1074, FOLDER 3-A

MODELS - CHASSIS 16Z8C50

- GA50-56W7, GA50-59W7/W07
- S2986W5/W6, S2989W, S2993DE/DE2/P/P2
- T2943W07/W08, T2952W07, T2958P07/W07
- T2981M07, T2983W07, T2984W07
- T2985M07, T2987H07, T2991P07
- Z4203C7/C07/C17/C18, Z4205W07/W08
- Z4208W07, Z4216W07/W08
- Z4501Y04/Y07/Y08, Z4502W04/W07/W08
- Z4507W07, Z4512W07/W08
- Z4514M07/M08, Z4515H07/H08
- Z4516W07/W08, Z4517M07/M08
- Z4518DE07/DE08/P07/P08, Z4519P07/W07
- Z4520M07, Z4524H07, Z4526M07, Z4528H07
- Z4532DE07/P07, Z4533W07, Z4535M07
- Z4538DE07/P07, Z6208W07 *

* Model Z6208W07 uses Remote Transmitter S-83596 and Remote Receiver S-77536.

SAFETY PRECAUTIONS

Make sure line voltage does not exceed rating of set. Check high-voltage regulation and adjust to correct value. Be sure shields and rear cover are in place and secure.

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

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

SERVICING IN THE FIELD

SAFETY GLASS

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

FUSE OR FUSE DEVICE

A 1-amp fuse is used for low-voltage power supply protection. (For location, see photo "Cabinet - Rear View".)

Four 2 1/2" lengths of fuse wire are used for filament protection. (See F2, F3, F4 and F5 in photo "Chassis - Bottom View" for location.)

VHF OSCILLATOR ADJUSTMENT

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

AGC

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

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

The horizontal oscillator coil is used for the horizontal hold. (See "Tube Placement Chart" for location.)

WIDTH

A jumper may be moved to alter width. (For location, see photo "Cabinet - Rear View" for location.)

FOCUS

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

BUZZ ADJUSTMENT

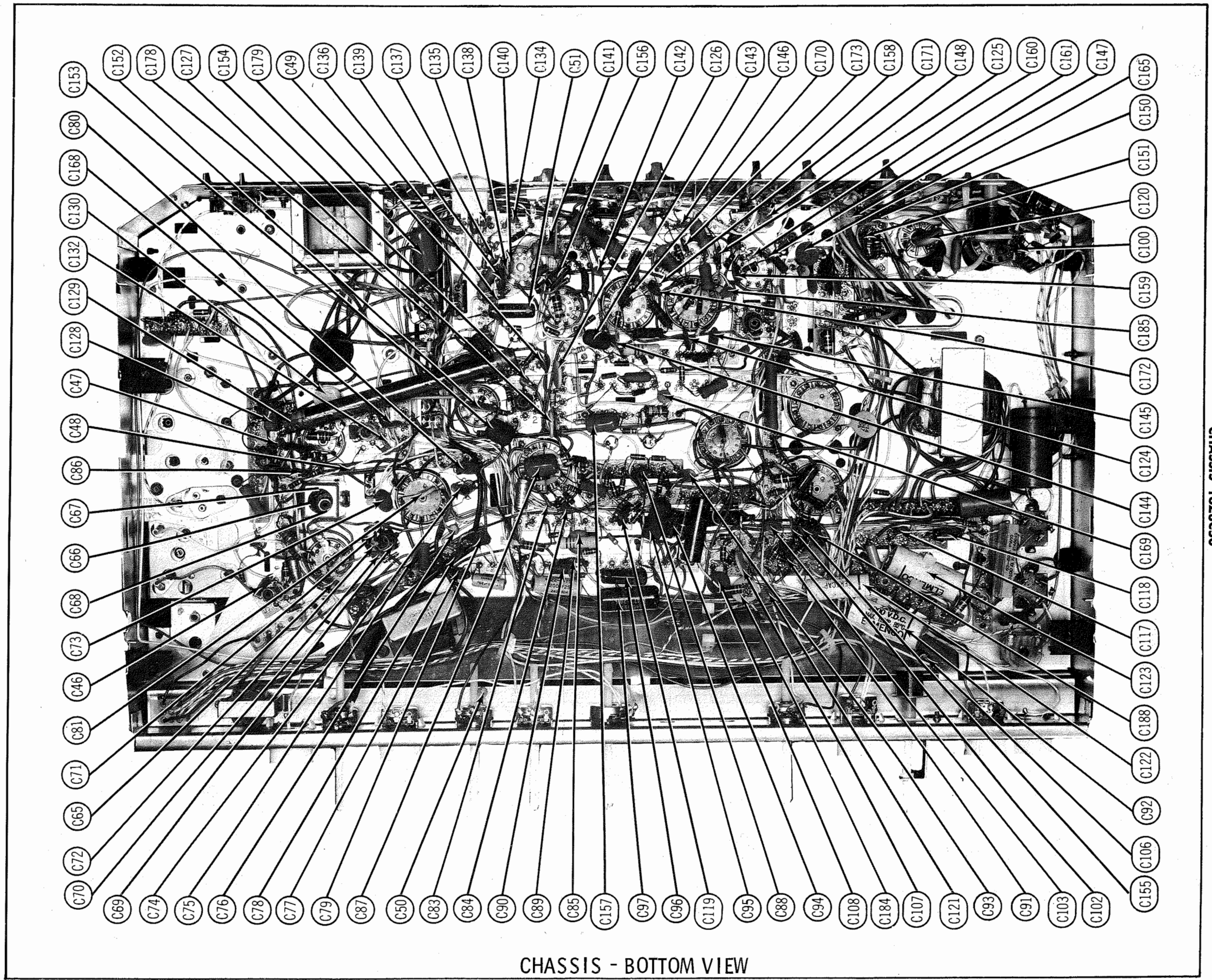
To eliminate intercarrier, buss, adjust the Buzz control for MINIMUM buzz and maximum sound. (For location, see photo "Cabinet - Rear View".)

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. UB471

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CHASSIS - BOTTOM VIEW

ZENITH
CHASSIS 16Z8C50

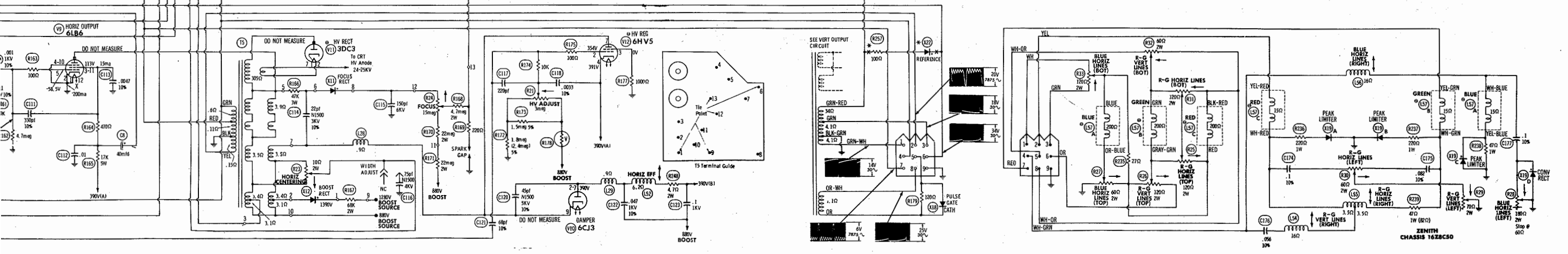
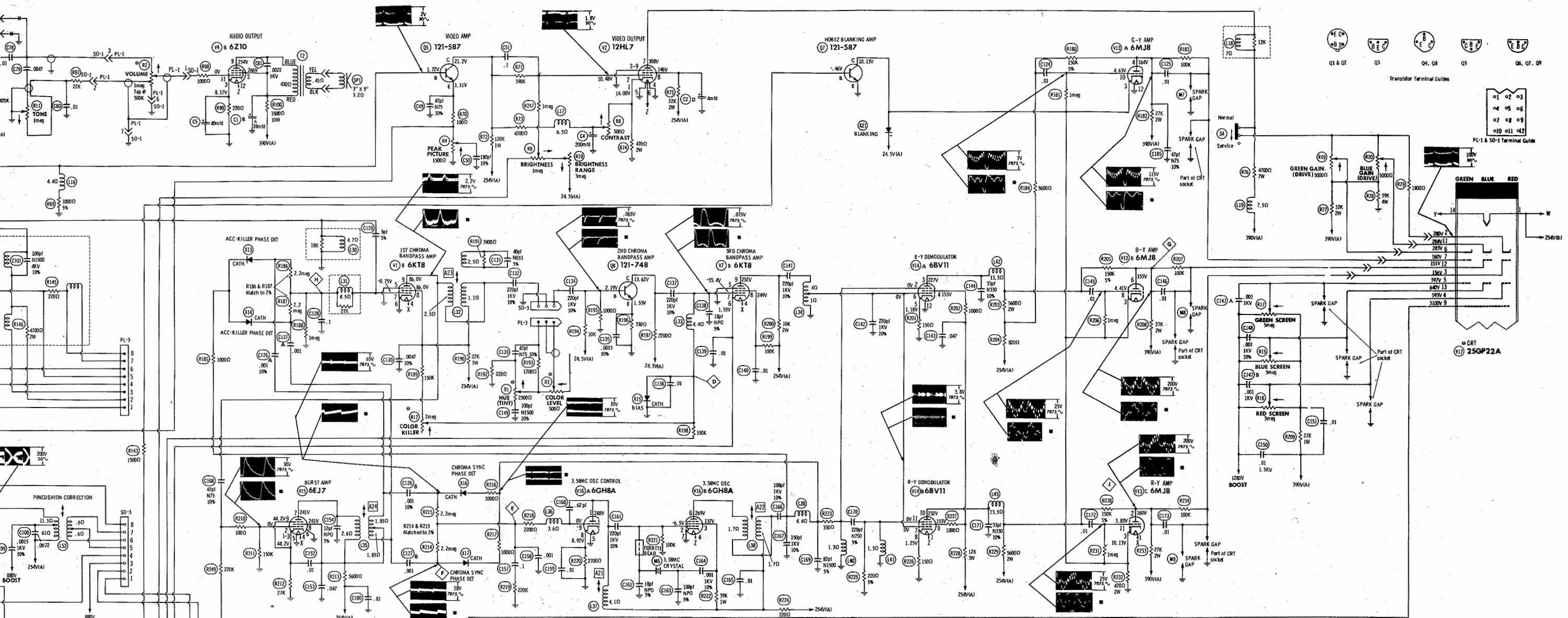
FOLDER 3

AGC FUSE BU
B+

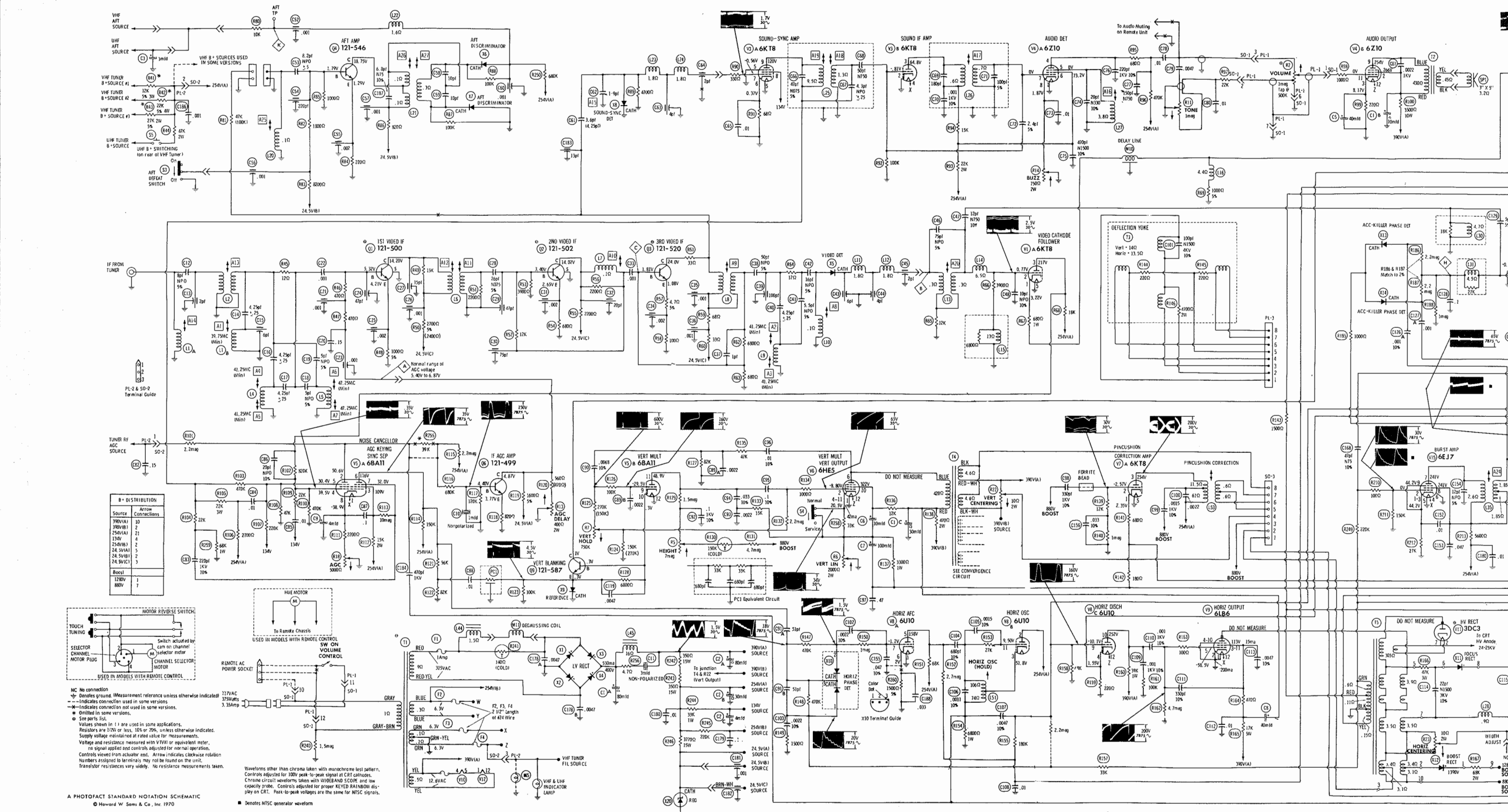
CHASSIS REMOVAL

Note: All components can be serviced from the bottom.

1. Turn 7 plastic retainers holding back, remove cabinet back. Remove 10 screws from cabinet.
2. Remove all knobs and remove screws from front of cabinet.
3. Remove picture-tube socket, converging plug, tuner plugs, speaker leads.
4. Remove 4 screws holding chassis to cabinet, holding tuner assembly to the cabinet.

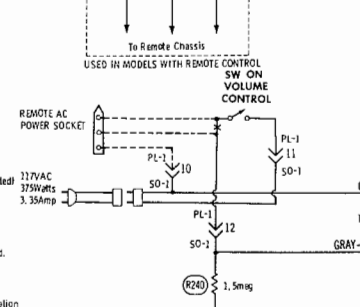
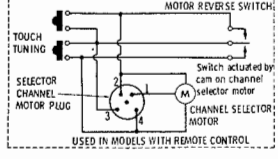


ZENITH CHASSIS 16ZBC50



B - DISTRIBUTION

Source	Arrow Connections
390V(A)	10
390V(B)	2
254V(A)	21
134V	4
24.5V(B)	5
24.5V(B)	2
24.5V(C)	3
Boost	
128V	1
88V	7



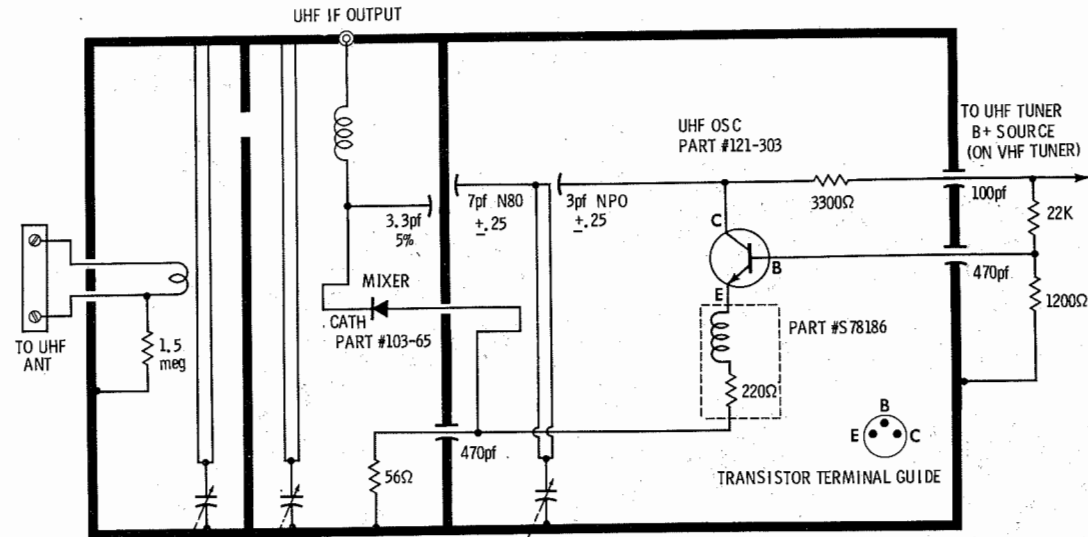
NC No connection
 ⚡ Denotes ground. Measurement reference unless otherwise indicated.
 --- Indicates connection used in some versions.
 - - - Indicates connection not used in some versions.
 * Drilled in some versions.
 * See parts list.
 Values shown in () are used in some applications.
 Resistors are 1/2W or less, 10% or 20%, unless otherwise indicated.
 Supply voltage maintained at rated value for measurements.
 Voltage and resistance measured with VVAI or equivalent meter, no signal applied and controls adjusted for normal operation.
 Controls viewed from actuator end. Arrow indicates clockwise rotation.
 Numbers assigned to terminals may not be found on the unit.
 Transistor resistances vary widely. No resistance measurements taken.

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 and low capacity probe. Controls adjusted for proper KEYS RAINBOW display on CRT. Peak-to-peak voltages are the same for NTSC signals.

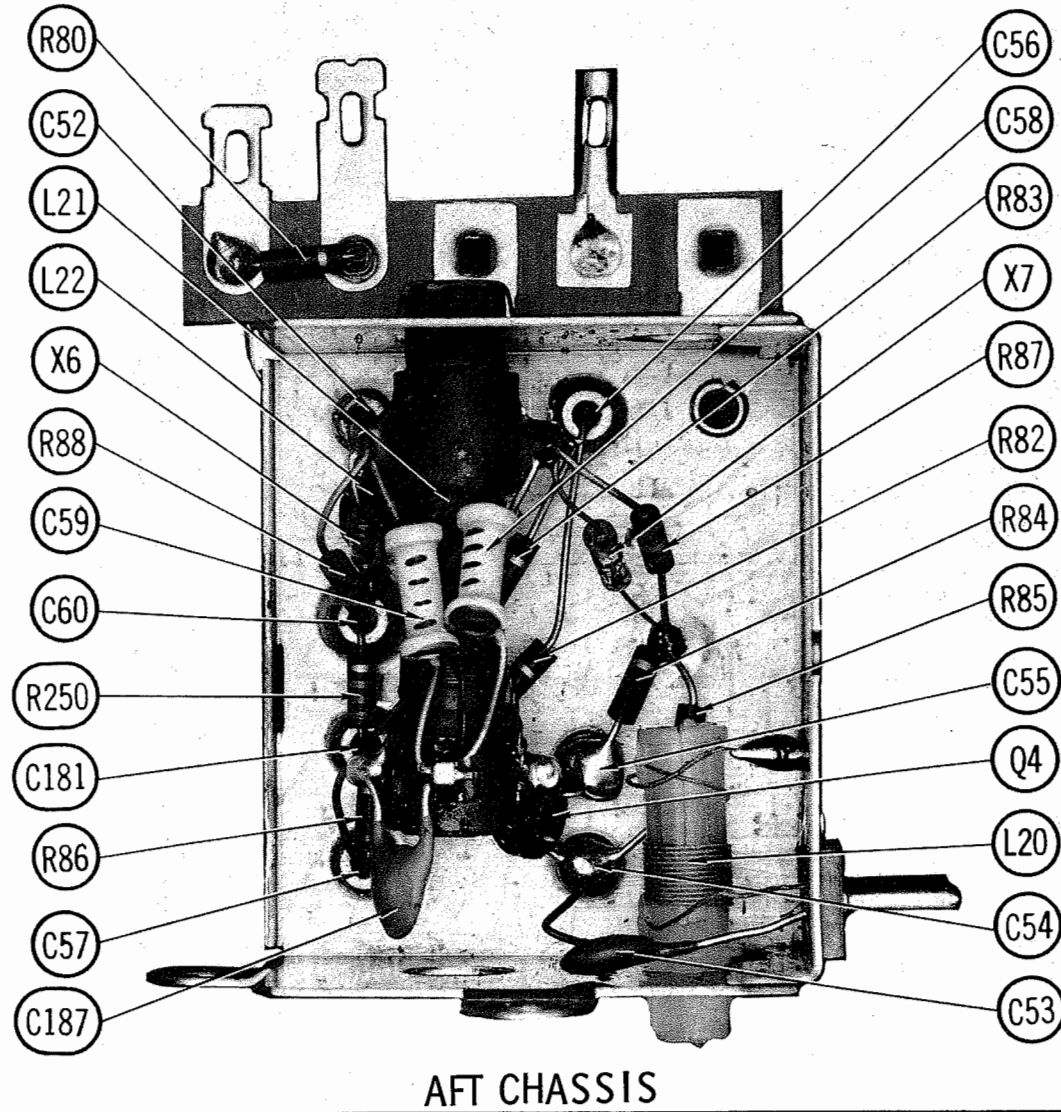
A PHOTOFAC STANDARD NOTATION SCHEMATIC
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⚡ Denotes NTSC generator waveform

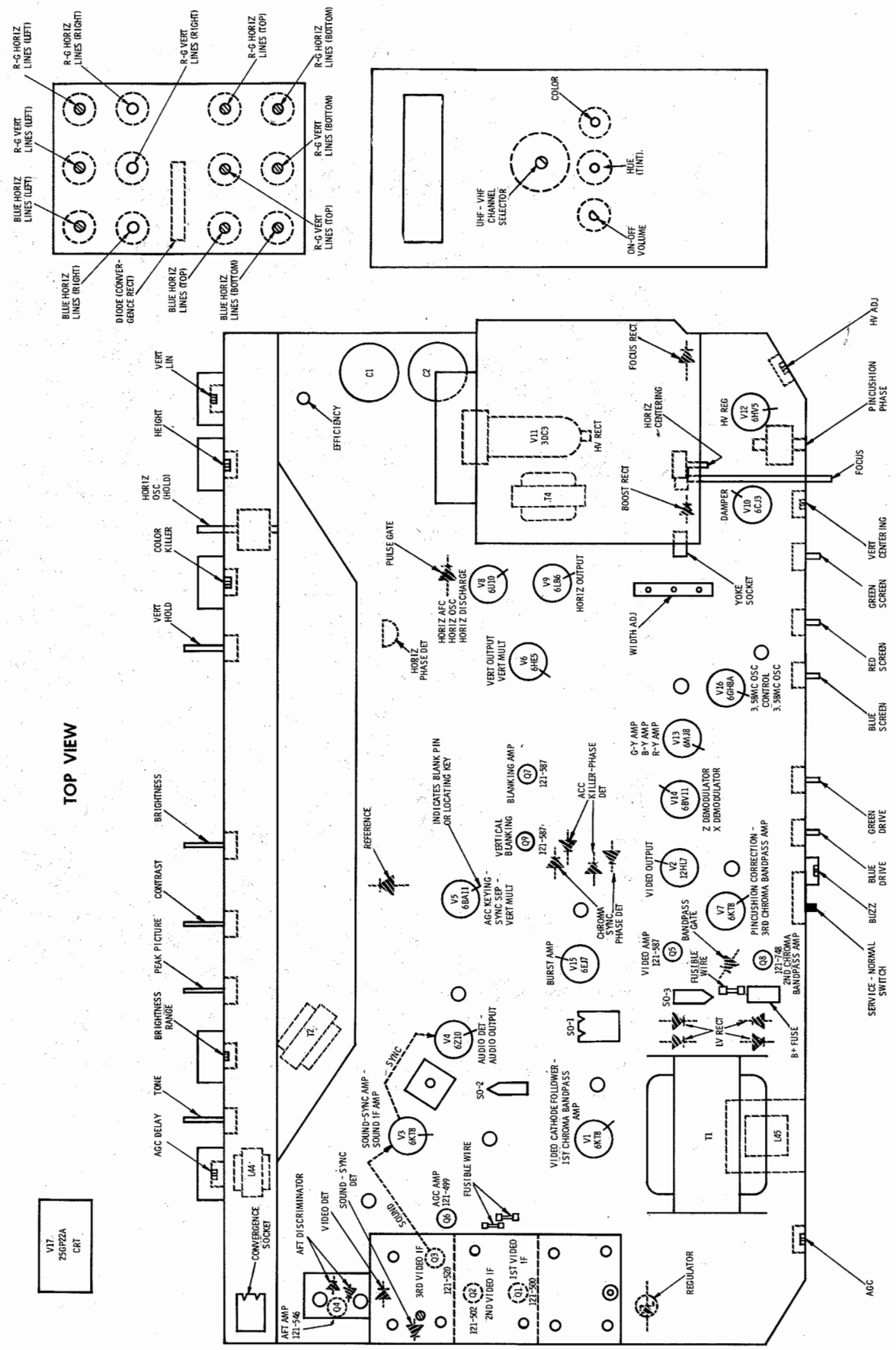
UHF TUNER 175-85



A PHOTOFAC STANDARD NOTATION SCHEMATIC
© Howard W. Sams & Co., Inc. 1970

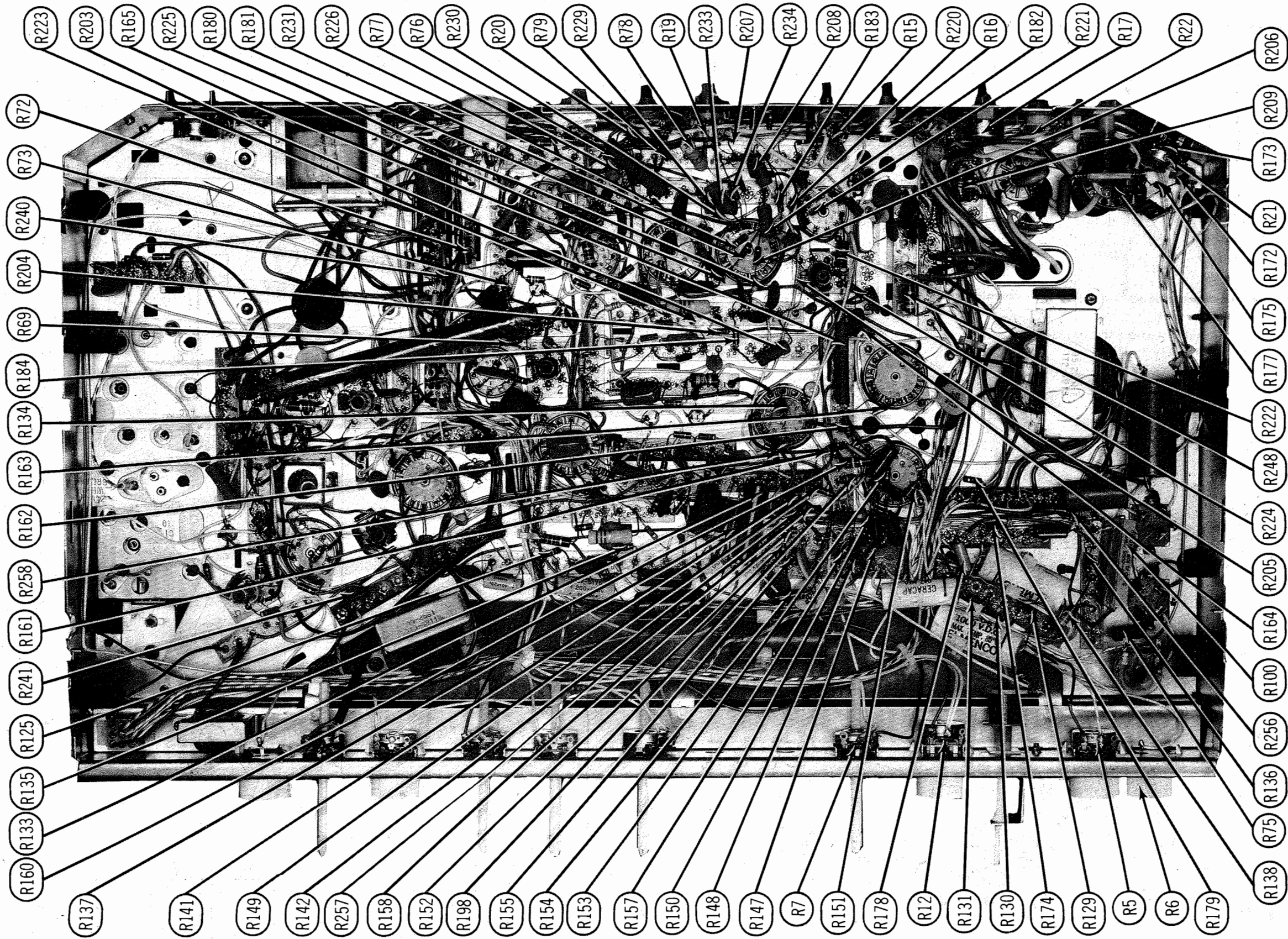


TUBE PLACEMENT CHART

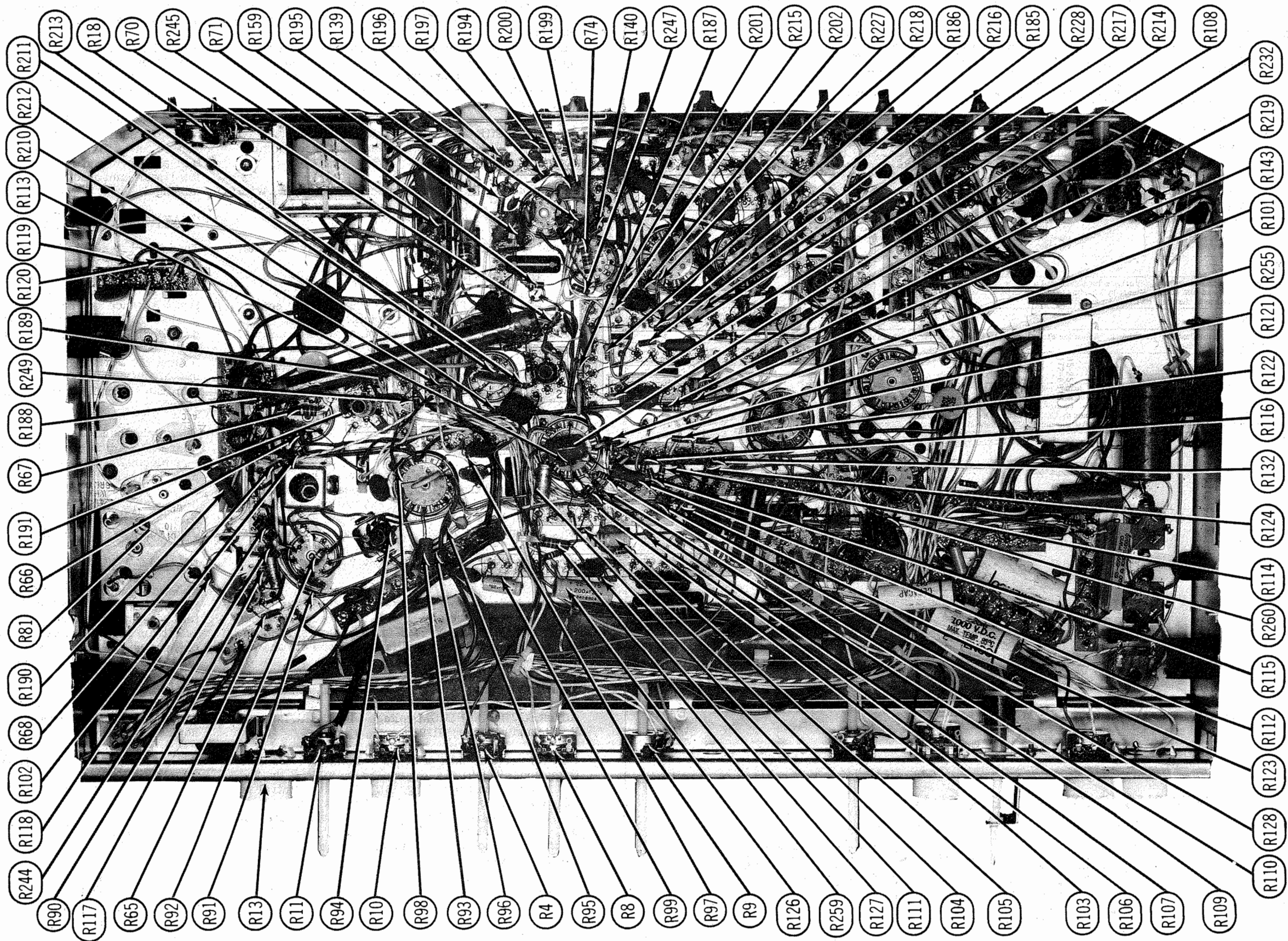


ZENITH
CHASSIS 16Z8C50

FOLDER 3



CHASSIS - BOTTOM VIEW



CHASSIS - BOTTOM VIEW

ZENITH
CHASSIS 16Z8C50

FOLDER 3

ALIGNMENT INSTRUCTIONS

Use an isolation transformer and maintain voltage at 117 volts. Allow a 20-minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: A1 thru A20.....GENERAL CEMENT #8606, 8606L, 8869...WALSCO #2543, 2544, 2588
Mixer Plate Coil... GENERAL CEMENT #9296, 9297, 9300...WALSCO #2510, 2546, 2547

VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Use only enough generator output to provide a usable indication. Note: Response may vary slightly from those shown.
Connect a variable bias supply to the IF AGC line (point \diamond) and adjust to obtain a response curve which shows no indication of overload. Disable Oscillator section of Mixer-Osc. Set the Channel Selector to any non-interfering channel.

INDICATOR	GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	ADJUST	REMARKS
1.	Connect DC probe of a VTVM thru a 47K resistor to point \diamond . Common to ground.		39.75MC 41.25MC 47.25MC	A1 A2, A3, A4, A5 A6, A7	Adjust for MINIMUM.
2.	Connect vertical input of a scope to point \diamond . Low side to ground.	44MC (10MC Sweep)	42.75MC 45.75MC	A8, A9	Adjust for maximum amplitude and MINIMUM tilt with markers as shown in Figure 1.
3.	Connect vertical input of a scope to point \diamond . Low side to ground.	44MC (10MC Sweep)	39.75MC 41.25MC 42.75MC 45.75MC 47.25MC	A10, A11, A12, A13, A14, A15, Mixer Plate Coil	Adjust for maximum gain and symmetry of response with markers as shown in Figure 2. In order to obtain a proper response, it may be necessary to slightly retouch A8 and A9.

SOUND IF ALIGNMENT

Tune in a station and reduce the signal strength at the antenna terminals until a hiss is heard in the sound. Align for maximum undistorted sound with MINIMUM buzz by adjusting A16, A17, A18, A19, and Buzz control. If the hiss disappears during alignment, further reduce the signal strength.

4.5 MC TRAP ALIGNMENT

Tune in a strong TV signal and set the Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible on the screen. Adjust A20 for MINIMUM beat interference.

AUTOMATIC FINE TUNING ALIGNMENT

Tune in a color TV program with AFT off. Adjust all controls for normal operation. Remove white lead from the AFT output terminal. Connect DC probe of VTVM to this terminal, Point \diamond , low side to ground. Turn AFT on and fine tune into sound beat for maximum negative DC voltage. Adjust A25 for maximum deflection on meter. Change meter to positive polarity and adjust fine tuning in the opposite direction for maximum deflection. Adjust A26 for maximum deflection. Connect the white lead to the AFT output terminal. Turn AFT off and adjust fine tuning for normal picture. Turn AFT on and adjust A27 for MINIMUM deflection. Remove VTVM.

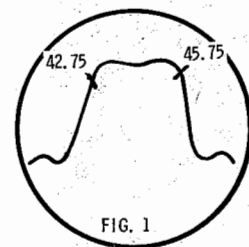


FIG. 1

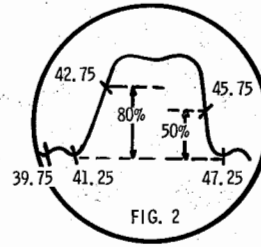


FIG. 2

TROUBLESHOOTING CHECK CHART

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

SWEEP

No raster, has sound V8 thru V12, V17
No vert. deflection V5, V6
Poor vert. lin. or foldover V5, V6
Poor horiz. lin. or foldover V9, V10
Narrow picture X1 thru X4, V8, V9, V10
Vert. off freq. V5, V6
Horiz. off freq. X10, V8

RASTER

Yellow - No blue V13, V17
Cyan - No red V13, V17
Magenta - No green V13, V17

PICTURE OR SOUND

No pic, no sound, no raster X1 thru X4, F1 thru F4
No pic, no sound, has raster Q1, Q2, Q3, V202
No pic, no sound, has snow V201, V202, Q1
No pic, has sound, no raster V2, V17
No pic, has sound, has raster X5, V1, V2, Q5
Has pic, no sound X8, V3, V4
Overloaded picture Q6, V5
Low or excessive brightness Q7, V17
Poor focus X11

COLOR (B/W reception operating normally.)

No color X13 thru X17, V1, Q8, V15, V16
Weak color X13 thru X17, V1, Q8, V15, V16
No color sync X13 thru X17, V15, V16
No blue V13, V14
No red V13, V14
Incorrect hue (tint) X13 thru X17, V14, V15.

SYNC

No vert. sync V3, V5
No horiz. sync V3, V5, X10
No vert. or horiz. sync V3, V5

MISCELLANEOUS ADJUSTMENTS

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Connect a VTVM through a high voltage probe to picture tube anode connector. Remove Efficiency coil jumper and connect a 0-300ma meter across the terminals.

Tune in a TV station and set all controls for normal operation. Remove the horizontal hold knob. Turn shaft to lock in picture when changing from channel to channel. Reinstall knob with pointer centered between stops.

Adjust the Efficiency coil for MINIMUM current on millimeter. Remove meter and reconnect jumper across terminals.

Set Normal-Service switch in Service position. With 117VAC to set, adjust the HV Adjust control for 25KV on picture tube anode connector.

Adjust Focus, Height and Vertical Linearity controls,

AGC ADJUSTMENTS

Tune in a strong TV station and advance AGC control until instability appears in the picture (pulling, jitter, overload, etc.). Reduce the control to the point just below the instability. Tune in a weak TV station without snow. Advance the AGC Delay control until snow appears in the picture. Reduce the control until the snow just disappears from the picture. Check all available stations for proper AGC action and repeat above procedure if necessary.

CHROMA BANDPASS AFC ALIGNMENT

Connect a color bar generator to the antenna terminals and adjust the set for normal operation. Connect jumper from Points \diamond and \diamond to ground. Adjust A21 until color bars drift slowly across the screen. Connect a jumper from Point \diamond to ground. Connect DC probe to VTVM through a 4.7meg resistor to Point \diamond , low side to ground. Adjust A22 for maximum reading on meter.

Remove jumper from Points \diamond and \diamond . Set Color Level and Hue to the center of their ranges. Connect vertical input of scope to Point \diamond , low side to the ground. Adjust Hue control for maximum 6th and 7th bars on scope (Fig. A).

Connect VTVM to Point \diamond , low side to ground. Remove one end of R191, 3300 Ω Resistor, across L32. Adjust A23 for MINIMUM voltage on VTVM. Remove VTVM and reconnect R191 across L32.

Connect vertical input of scope to Point \diamond , low side to ground. Adjust A24 for equal amplitude of the 2nd and 4th bars on scope (Fig. B). Set Hue control to fully counterclockwise position. The 1st and 3rd bars or 7th and 9th bars should be of equal amplitude. If not, readjust A24. Set the Hue control to maximum clockwise. The 3rd or 4th and 5th bars should be of equal amplitude.

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.

Turn Red screen control to maximum and turn Blue and Green controls to MINIMUM. Loosen deflection yoke and move it rearward until it is against the convergence yoke assembly.

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

GRAY SCALE ADJUSTMENTS

Tune in a black and white picture or a color picture with the Color control set at MINIMUM. Turn the Red, Blue and Green Screen controls to MINIMUM. Move the Normal-Service switch to the Service position. Advance the screen controls one at a time to produce a white line of medium brightness, or to produce Red, Blue and Green lines of equal brightness.

Return the Normal-Service switch to the Normal position. Adjust the Blue and Green Gain controls to eliminate coloring in the light and dark areas of the picture.

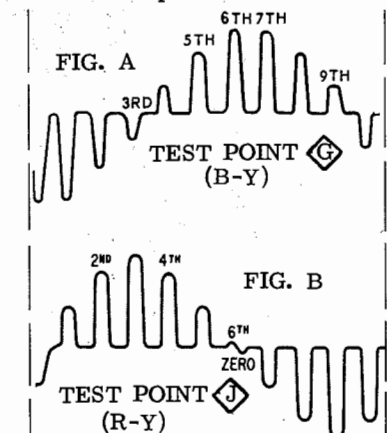
Turn Brightness to maximum and Contrast control to midrange. Adjust the Brightness Range until the picture blooms (distorts), then reduce the control to the point just below where the picture returns to normal.

The cathode leads of the picture tube are provided with quick-disconnect connectors so that least efficient gun may be connected direct.

DYNAMIC PINCUSHION ADJUSTMENTS

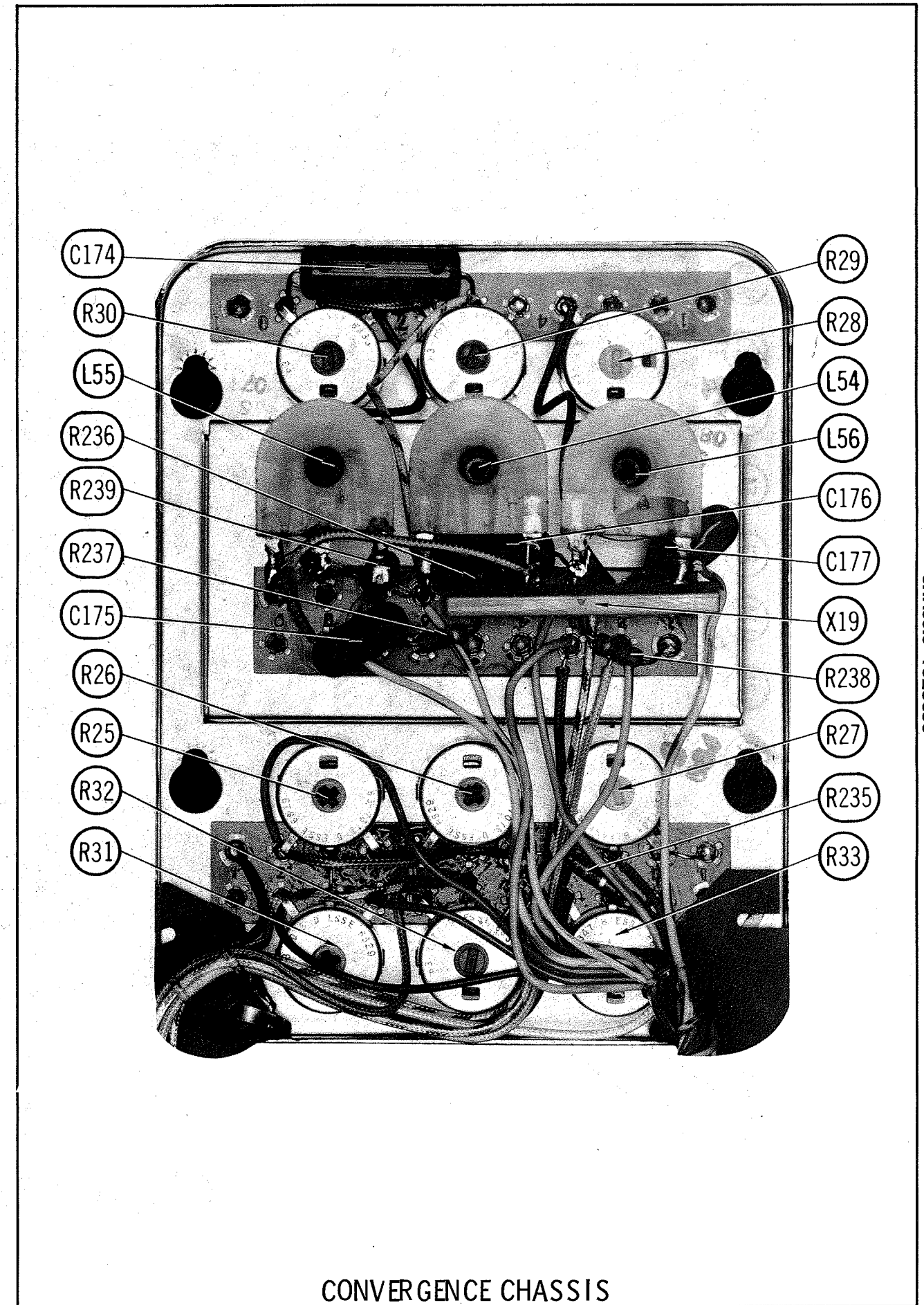
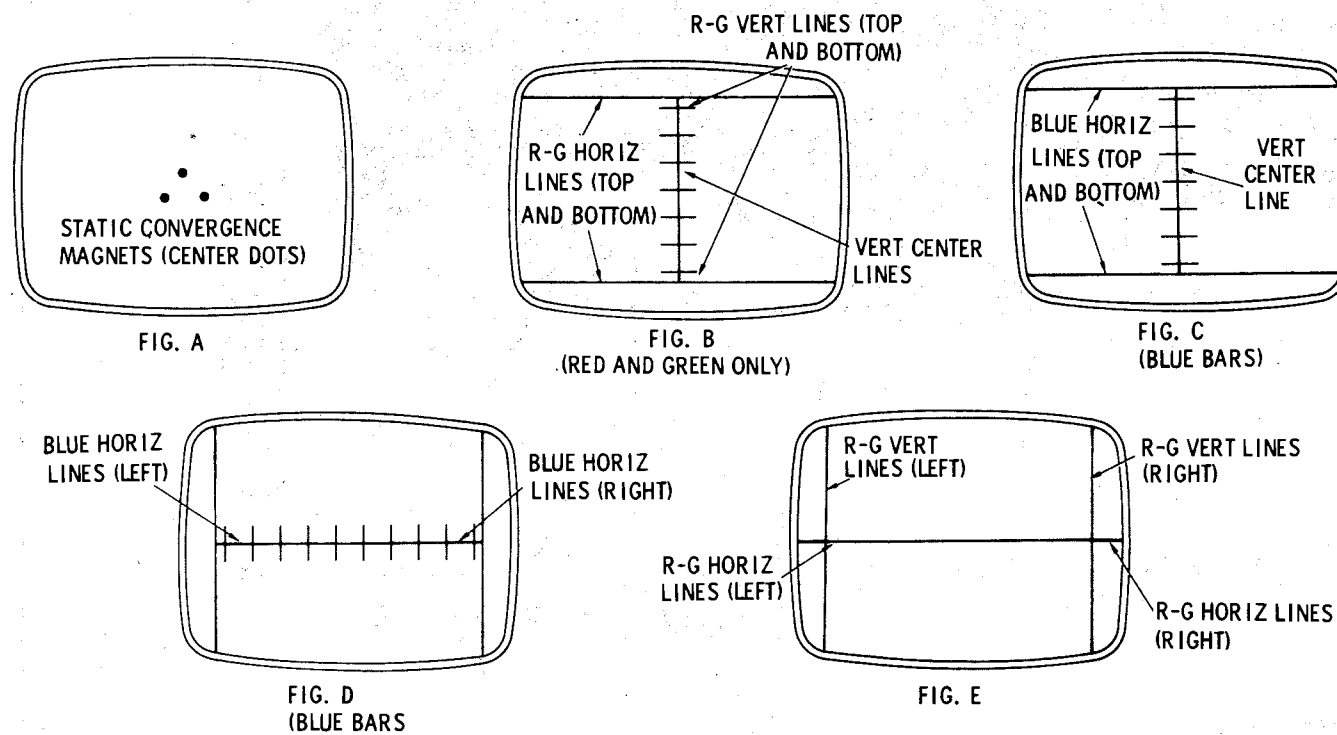
The side pincushion is a fixed correction and no adjustments are provided on this chassis. Top and bottom pincushion is factory adjusted and readjustment is seldom needed. If necessary, top and bottom pincushion may be corrected by adjusting for straight horizontal lines at the top and bottom of the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

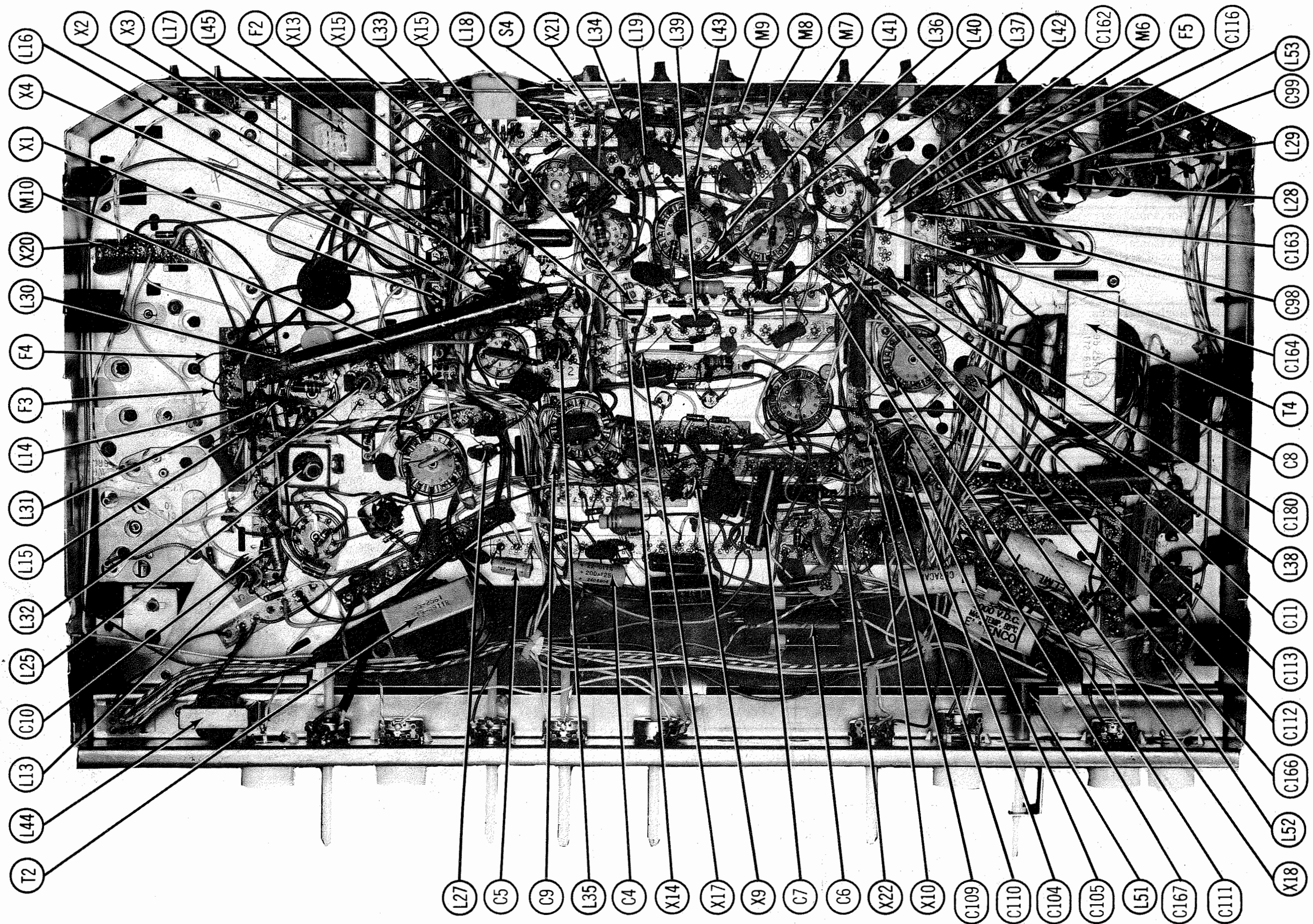
Connect a crosshatch generator to the antenna terminals and adjust set for a normal crosshatch pattern. Adjust Pincushion Correction coil, L53, for straight horizontal lines at top and bottom of the screen.



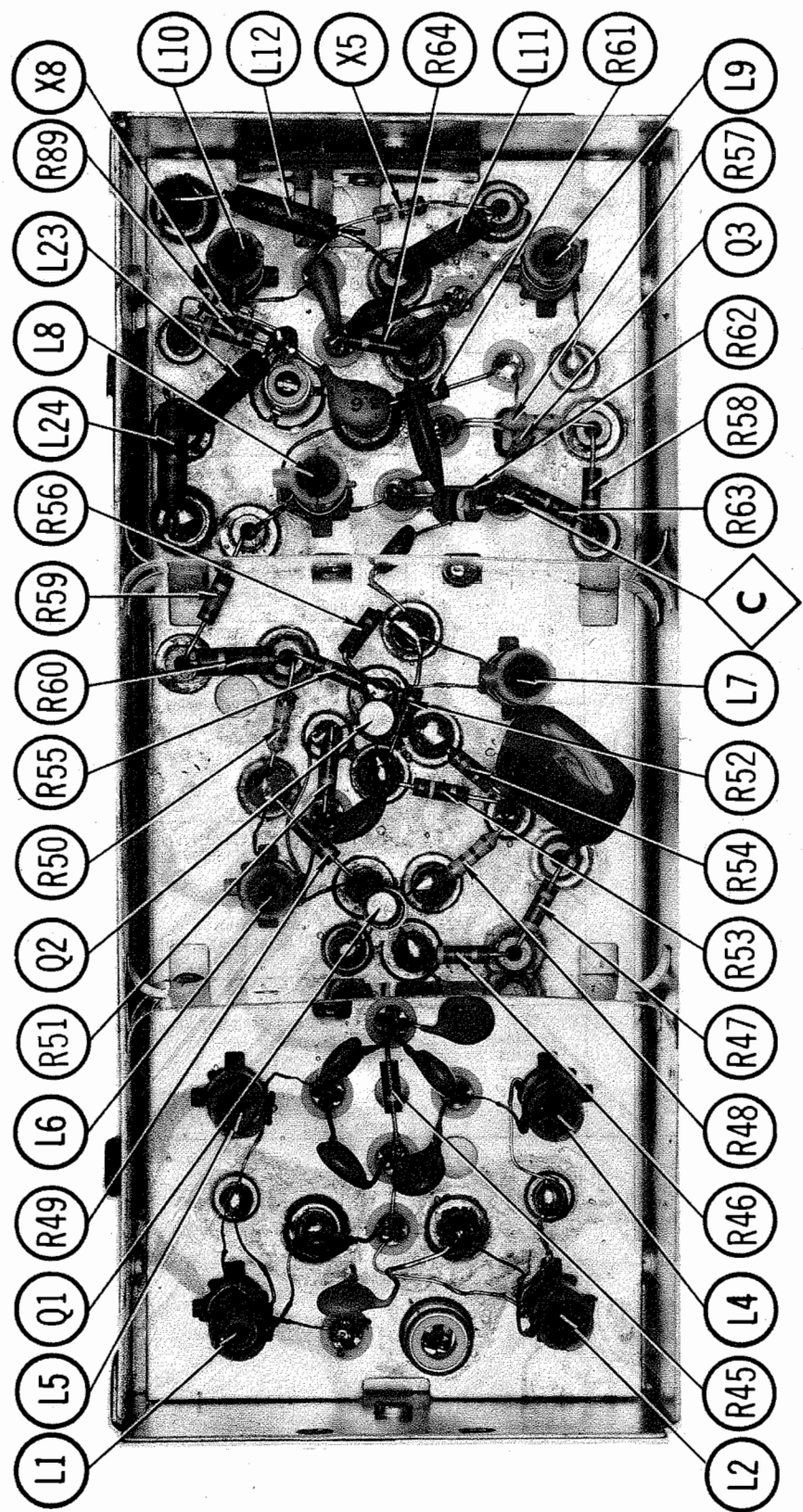
CONVERGENCE ADJUSTMENTS

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 R26	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 R32	Red and Green Vertical bars at bottom of screen.	
4.	R-G Horizontal Lines, Top R25	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 R31	Red and Green Horizontal bars at bottom of screen.	
6.	Blue Horizontal Lines, Top R27	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 R33	Blue Horizontal bars at bottom of screen.	
8.			Perform Center Dot Static Convergence (Fig. A).
9.	Blue Horizontal Lines, Right L56	Blue Horizontal bars at right side of screen.	Touch up both controls for best convergence along horizontal center line (Fig. D).
10.	Blue Horizontal Lines, Left R28	Blue Horizontal bars at left side of screen.	
11.	R-G Vertical Lines, Right L54	Red and Green Vertical bars at right side of screen.	(Fig. E)
12.	R-G Horizontal Lines, Right L55	Red and Green Horizontal bars at right side of screen.	Use control to converge blue bar with red and green bars on right side of screen (Fig. E).
13.	R-G Vertical Lines, Left R29	Red and Green Vertical bars at left side of screen.	(Fig. E)
14.	R-G Horizontal Lines, Left R30	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).

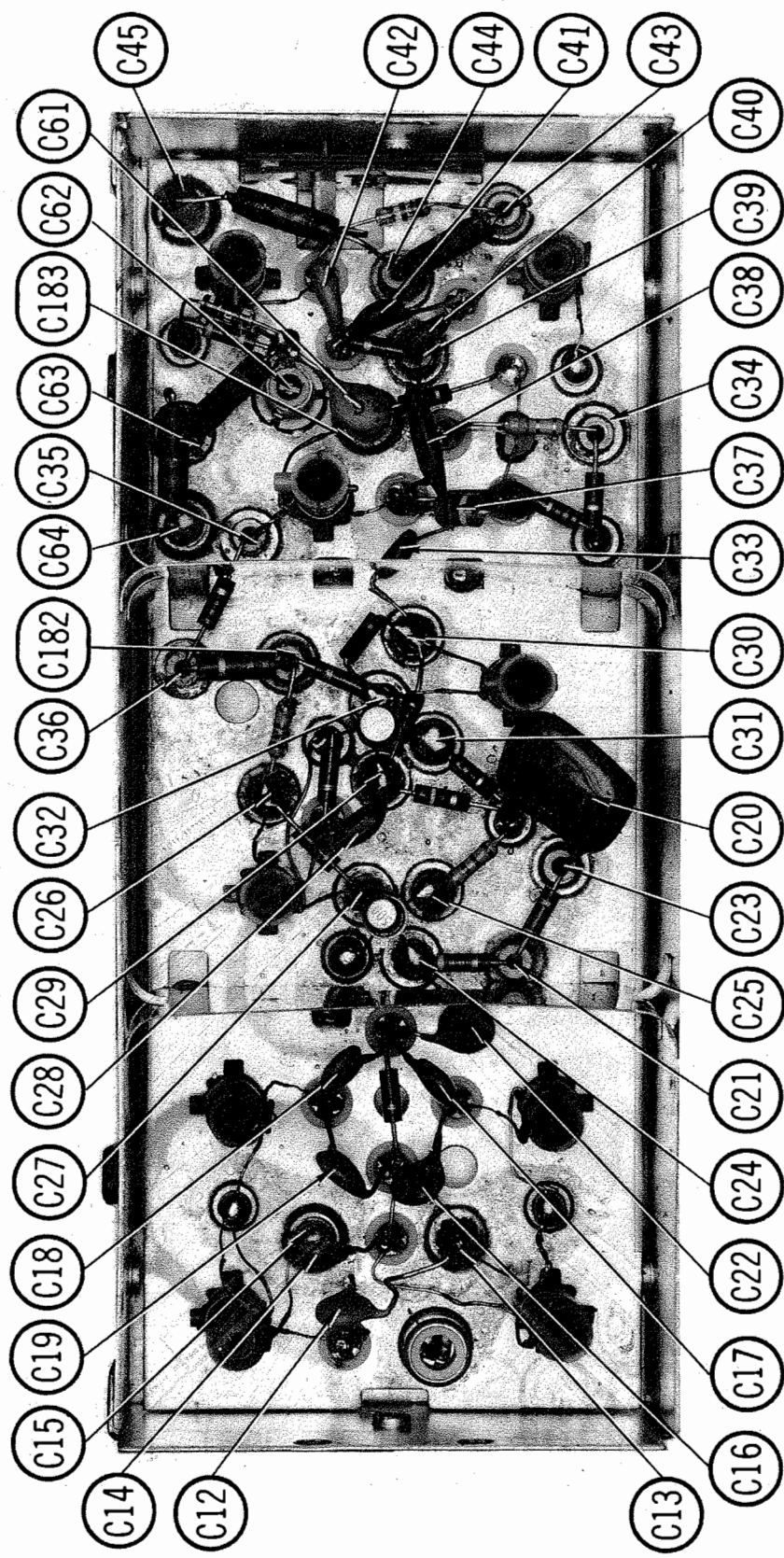




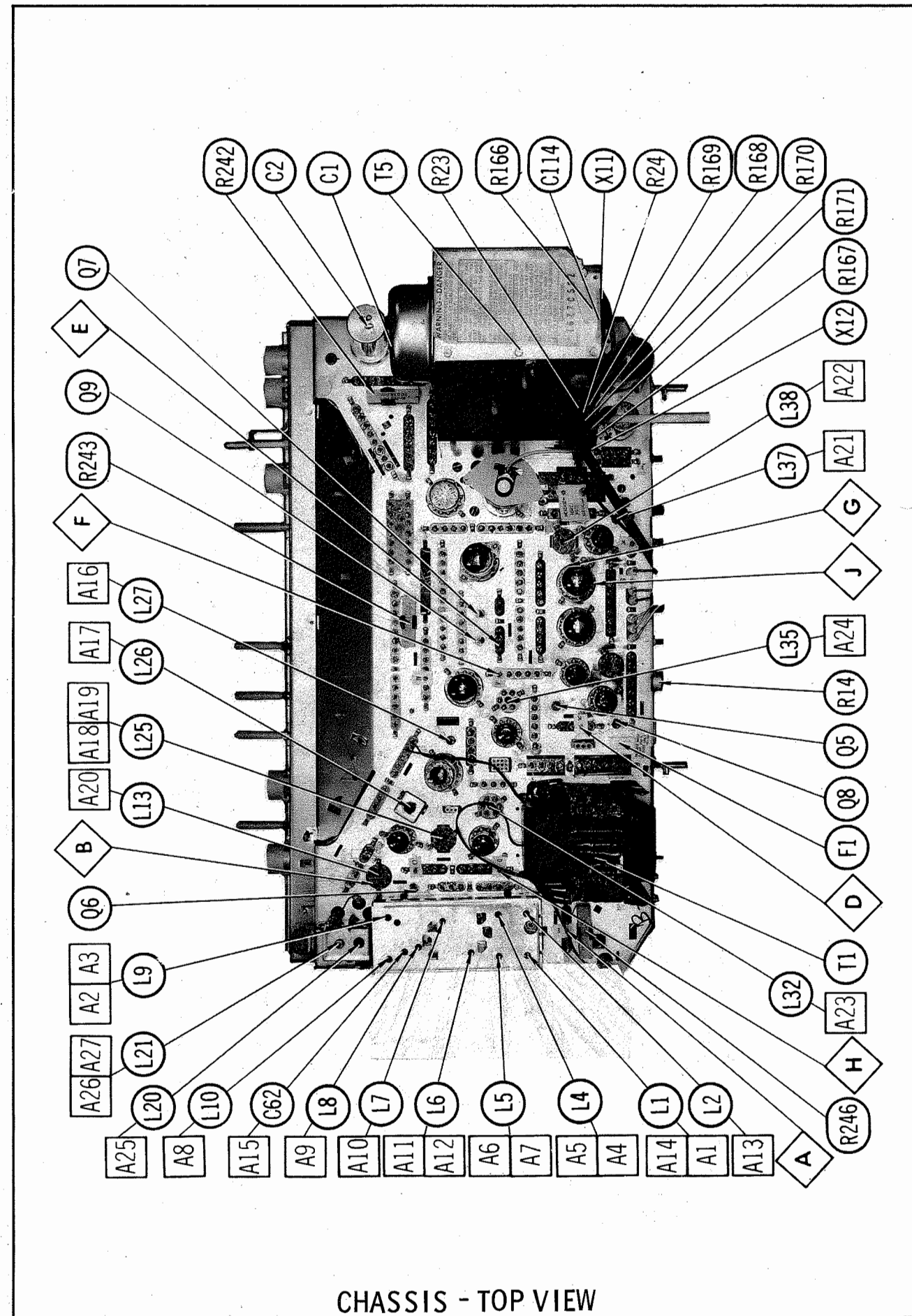
CHASSIS - BOTTOM VIEW



VIDEO IF CHASSIS



VIDEO IF CHASSIS



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

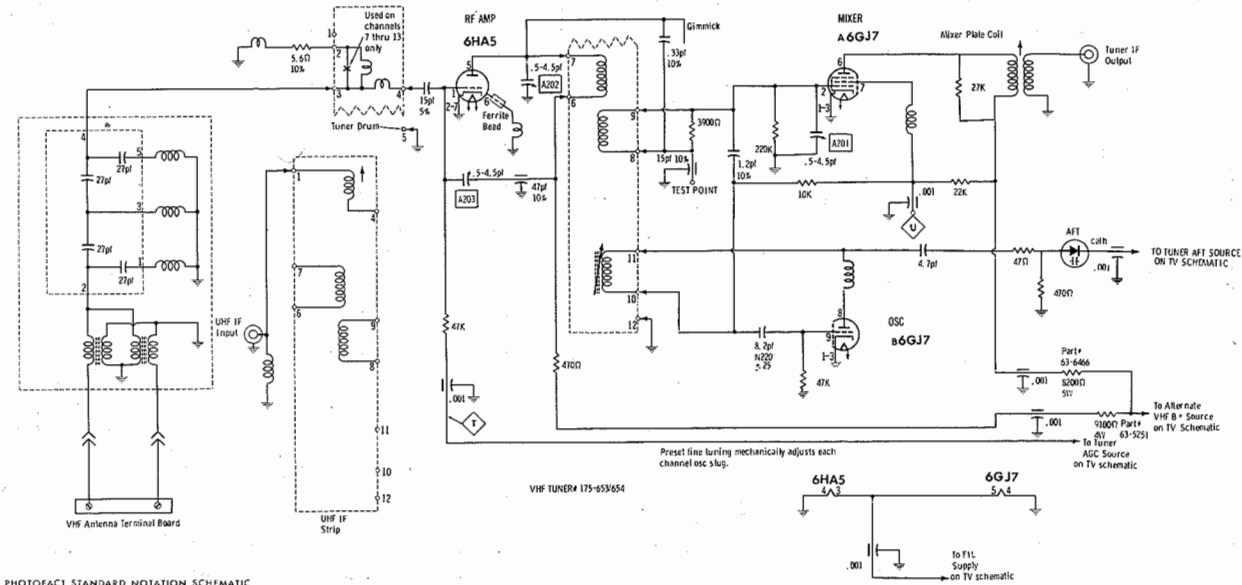
ITEM	PART No.	ITEM	PART No.
KNOBS MODELS: GA50-56W7 VHF Channel Selector VHF Fine Tuning, UHF Channel Selector On/Off, Volume, Color AFC Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-7540 46-6563 46-6821 46-5326 46-6023 46-6024 46-6820 46-6025	KNOBS MODELS: GA50-59W7/W07 VHF Channel Selector (Higher) VHF Channel Selector (Lower) VHF Fine Tuning VHF Channel Selector UHF Channel Selector Volume On/Off AFC Vert. Hold, Brightness, Contrast, Tone Color Horiz. Hold Hue Peak Pix	46-5973 46-5972 S-58105 S-53116 46-6035 46-6586 46-5974 46-5326 46-6023 46-6036 46-6024 46-6037 46-6025
KNOBS MODELS: T2943W07/W08, Z4208W07, Z4216W07/W08 VHF Channel Selector VHF Fine Tuning UHF Channel Selector UHF Tuning On/Off, Volume, Color AFC (Not used with Z4216W07/W08) Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-6217 S-69741 46-6019 46-5322 46-6823 46-5325 46-6026 46-6027 46-6822 46-6028	KNOBS MODELS: T2952W07, T2958P07/W07, T2981M07, T2983W07, T2984W07, T2985M07, T2987H07, T2991P07, Z4507W07, Z4519P07/W07, Z4520M07, Z4524H07, Z4526M07, Z4528H07, Z4532DE07/P07, Z4533W07, Z4535M07, Z4538DE07/P07 VHF Channel Selector VHF Fine Tuning, UHF Channel Selector On/Off, Volume, Color AFC Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-6352 46-6695 46-6821 46-5326 46-6023 46-6024 46-6820 46-6025
KNOBS MODELS: S2986W5/W6, S2993DE/DE2/P/P2, Z4516W07/W08, Z4517M07/M08, Z4518DE07/DE08/P07/P08 VHF Channel Selector VHF Fine Tuning UHF Channel Selector On/Off, Volume, Color AFC Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-7202 S-69715 46-7232 46-6821 46-5326 46-6023 46-6024 46-6820 46-6025	KNOBS MODELS: S2989W VHF Channel Selector VHF Fine Tuning, UHF Channel Selector On/Off, Volume, Color AFC Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-7540 46-6695 46-6821 46-5326 46-6023 46-6024 46-6820 46-6025
KNOBS MODELS: Z4203C7/C07/C17/C18, Z4205W07/W08 VHF Channel Selector VHF Fine Tuning VHF Fine Tuning (Models Z4203C7/C07) UHF Channel Selector UHF Tuning On/Off, Volume, Color Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-6218 S-69741 S-69740 46-5890 46-5322 46-6823 46-6026 46-6027 46-6822 46-6028	KNOBS MODELS: Z4501Y04/Y07/Y08 VHF Channel Selector VHF Fine Tuning UHF Channel Selector UHF Channel Selector (Model Z4501Y04) UHF Tuning On/Off, Volume, Color Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-6229 S-69715 46-5830 46-7252 46-5322 46-6821 46-6023 46-6024 46-6820 46-6025
KNOBS MODELS: Z4502W04/W07/W08 VHF Channel Selector VHF Fine Tuning UHF Channel Selector UHF Tuning UHF Tuning (Model Z4502W04) On/Off, Volume, Color Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-6230 S-69715 46-5322 46-6332 46-6398 46-6821 46-6023 46-6024 46-6820 46-6025	KNOBS MODELS: Z4512W07/W08, Z4514M07/M08, Z4515H07/H08 VHF Channel Selector VHF Fine Tuning UHF Channel Selector On/Off, Volume, Color Vert. Hold, Brightness, Contrast, Tone Horiz. Hold Hue Peak Pix	46-7202 S-69715 46-7232 46-6821 46-6023 46-6024 46-6820 46-6025
KNOBS MODELS Z6208W07 VHF Channel Selector (Higher) VHF Channel Selector (Lower) VHF Fine Tuning VHF Channel Selector UHF Channel Selector UHF Tuning	46-5404 46-5404 S-66511 S-53116 46-6742 46-6741	KNOBS MODELS Z6208W07 (Continued) On/Off, Peak Pix Volume AFC Vert. Hold, Brightness, Contrast, Tone Color, Hue Horiz. Hold	46-5404 46-5416 46-5326 46-6026 46-6097 46-6027

RESISTANCE MEASUREMENTS

ITEM	TUBE	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9	PIN 10	PIN 11	PIN 12	TOP CAP
V1	6KT8	1760Ω	1530K*	18.3K †	FIL	FIL	0Ω	839K	22.8K †	22.8K †				
V2	12HL7	470Ω	338K †	0Ω	FIL	FIL	FIL	3460Ω †	23.3K †	0Ω				
V3	6KT8	0Ω	100K	36.8K †	FIL	FIL	22Ω	4620Ω*	30.4K †	10.5K †				
V4	6Z10	FIL	3500Ω †	220Ω	470K †	3.9Ω	23.1K †	1.0Ω	245Ω	3920Ω †	TP	250K	FIL	
V5	6BA11	FIL	600K	15K †	309K	37K	75K †	10meg †	4010Ω	788K	106K	441meg ††	FIL	
V6	6HE5	FIL	2.7meg	NC	NC	NC	922Ω †	NC	TP	NC	13.4K †	430Ω	FIL	
V7	6KT8	741Ω	1meg	767Ω †	FIL	FIL	330Ω	279K	111K †	10.3K †				
V8	6U10	FIL	700Ω †	6320Ω	330Ω	68.5K †	1500Ω	2.03meg	TP	62.4K	38.2K †	35.2K	FIL	
V9	61B6	FIL	0Ω	17.5K †	0Ω	4.7meg	NC	NC	0Ω	NC	NC	17.5K †	FIL	18.6Ω †
V10	6CJ3	NC	30.4Ω †	NC	FIL	FIL	NC	30.4Ω †	NC	101meg*				
V11	3DC3	PINS 1 THRU 8 HAVE INFINITE RESISTANCE												448Ω †
V12	6HV5	FIL	4meg ††	1000Ω	227Ω †	NC	NC	0Ω †	NC	NC	NC	NC	FIL	
V13	6MJ8	FIL	23K †	470Ω	23.4K †	NC	24.2K †	NC	1meg	NC	1meg	1meg	FIL	
V14	6BV11	FIL	1.2Ω	6750Ω †	13.5K †	150Ω	1.5Ω	1.5Ω	150Ω	13.6K †	5920Ω †	1.1Ω	FIL	
V15	6EJ7	27K	92.6K	27K	FIL	FIL	0Ω	6280Ω †	6300Ω †	27K				
V16	6GH8A	951Ω †	100K	42.1Ω †	FIL	FIL	951Ω †	0Ω	2700Ω	2.6meg*				
V17	25GP22A	FIL	5340Ω †	129K †	1.8meg ††	1.9meg ††	3490Ω †	129K †	NC	64.3meg †	NC	3450Ω †	129K †	
												PIN 13 1.6meg ††	PIN 14 FIL	
V201	6HA5	3.18meg	0Ω	FIL	FIL	13K †	0Ω	0Ω						
V202	6GJ7/ ECF801	0Ω	680K	0Ω	FIL	FIL	27.7K †	27.7K †	23.0K †	10K				

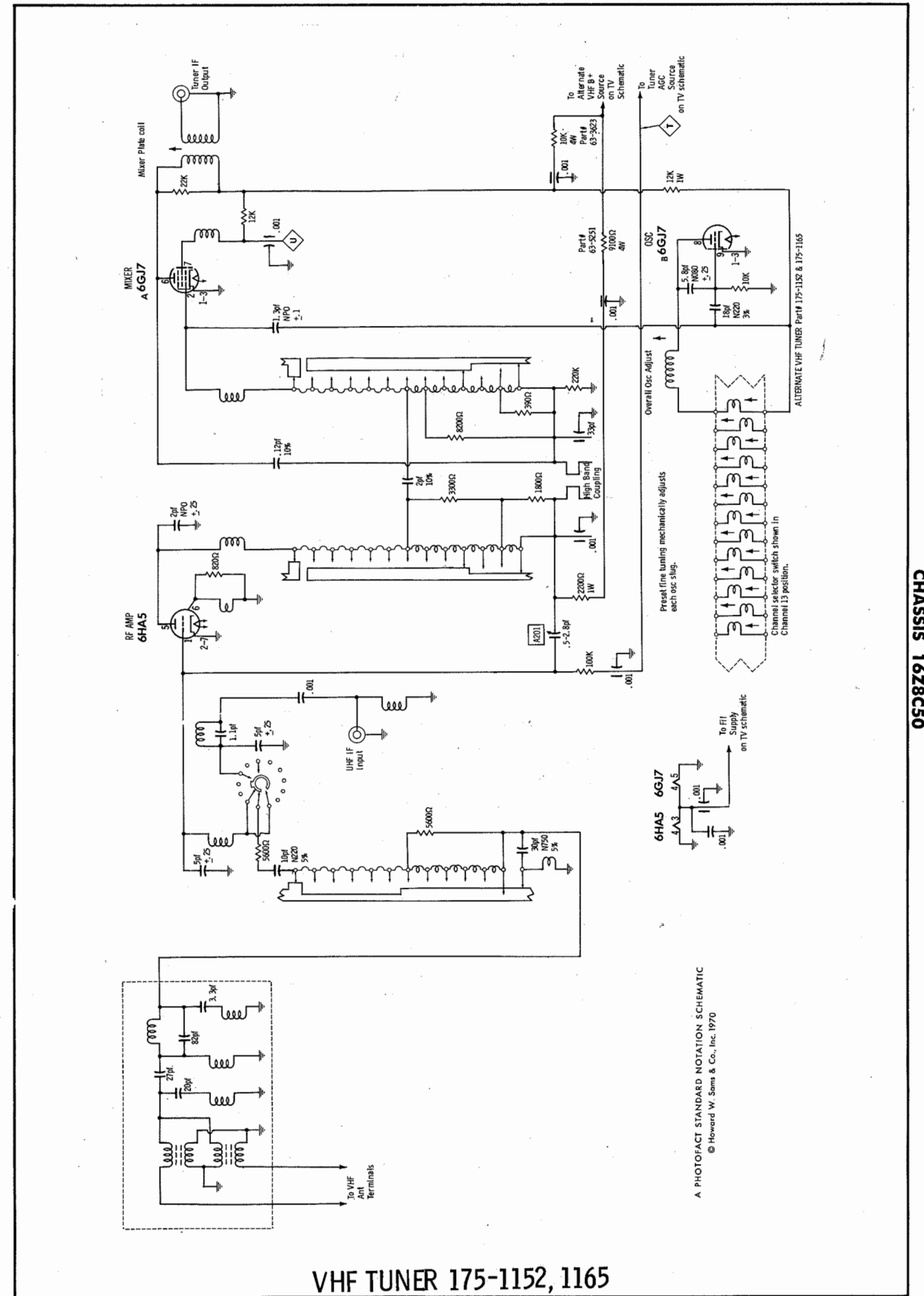
* READING DEPENDS ON POLARITY OF METER CONNECTIONS.
 † MEASURED FROM PIN 9 OF V10.
 NC NO CONNECTION

† MEASURED FROM THE CATHODE OF X3 AND X4.
 †† MEASURED FROM THE CATHODE OF X12.
 TP TIE POINT



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VHF TUNER 175-653,54



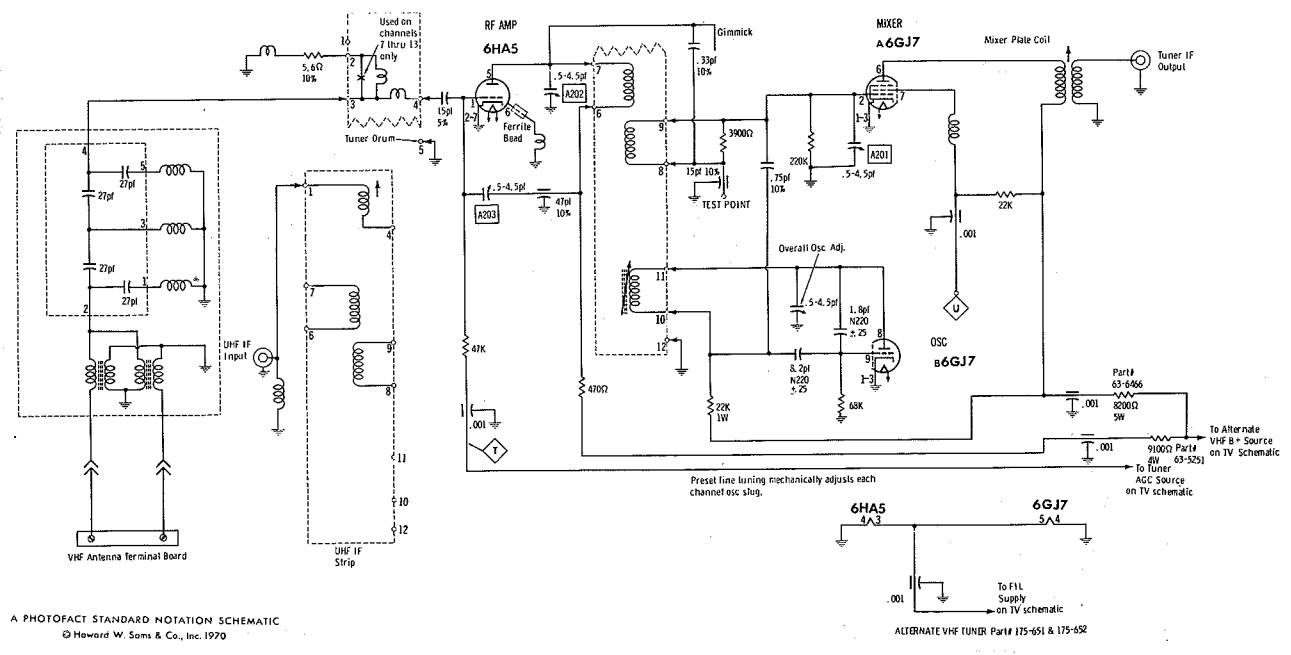
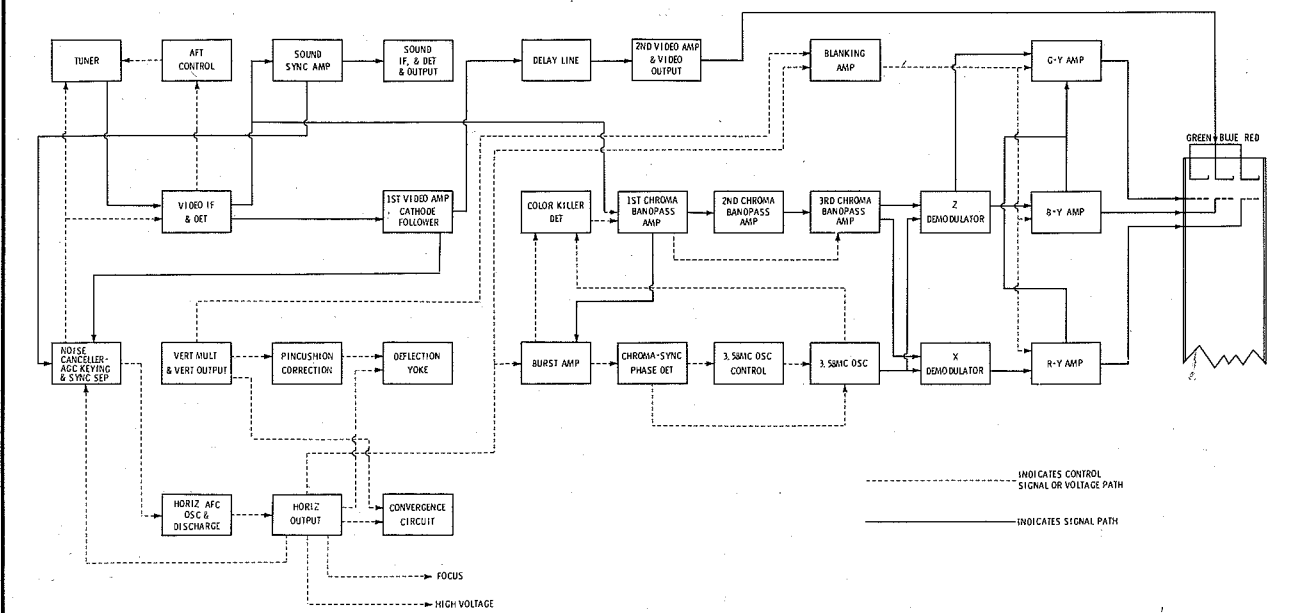
VHF TUNER 175-1152, 1165

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MISCELLANEOUS

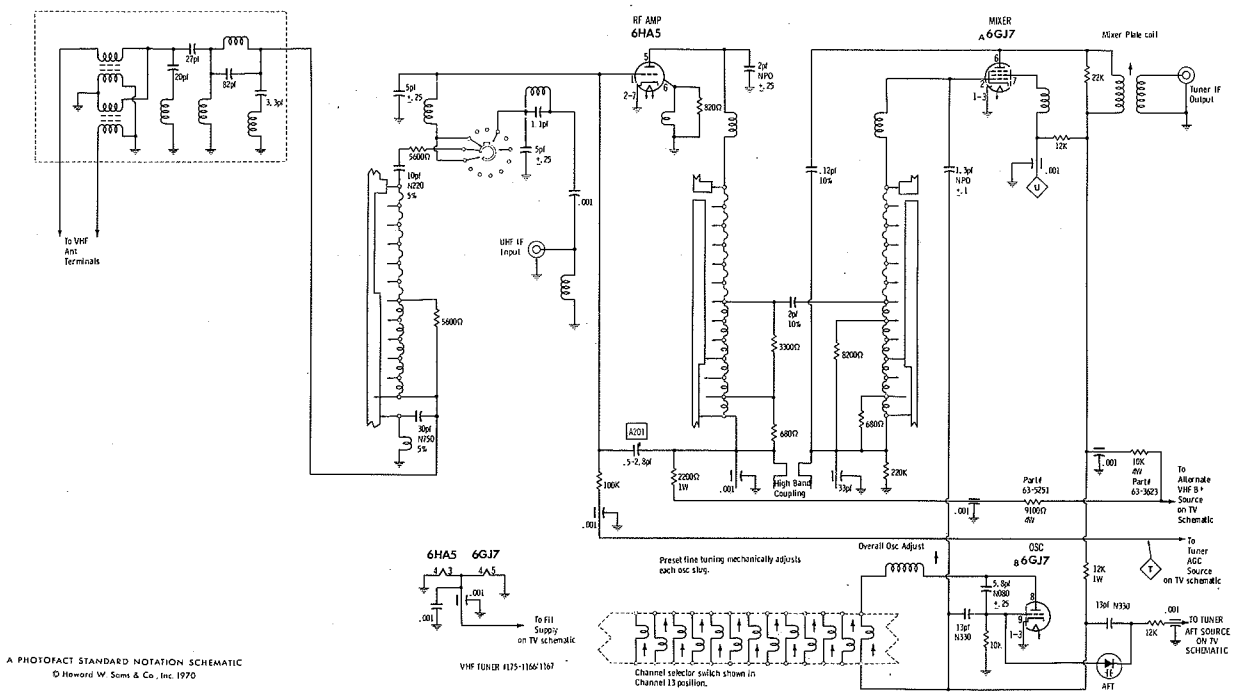
ITEM No.	PART NAME	PART No.	NOTES
M1	VHF Tuner	175-569	
	VHF Tuner	175-592	
	VHF Tuner	175-594	
	VHF Tuner	175-651	
	VHF Tuner	175-652	
	VHF Tuner	175-653	
	VHF Tuner	175-654	
	VHF Tuner	175-1152	
	VHF Tuner	175-1165	
	VHF Tuner	175-1166	
	VHF Tuner	175-1167	
M2	VHF Tuner	175-1226	JFD Replacement TA511, Used in Models: T2943W07/W08; Z4205W07/W08; Z4208W07 and Z6208W07. Some models use two #100-368, Model Z6208W07 uses two #100-245. 3.58MC
	UHF Tuner	175-74K	
	UHF Tuner	175-64K	
	UHF Tuner	175-65H/K	
	UHF Tuner	175-68H/K	
M3	UHF Tuner	175-69H/K	
	VHF Antenna	1-208	
M5	Dial Lamp	100-422	CENTRALAB Replacement PC-408, SPRAGUE Replacement V-14. AFT
M6	Crystal	103-89 or	
		103-59 or 103-71	
M7	Spark Gap	52-957	
M8	Spark Gap	52-957	
M9	Spark Gap	52-957	
M10	Delay Line	S80475	
M11	Degaussing Coil	87-4	
PC1	Vertical Integrator	85-999 or	
S3	Switch	85-962	
		85-994	
S4	Magnet	S-76297 or	
		S-79294 or S-71500	

BLOCK DIAGRAM



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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VHF TUNER 175-651,652

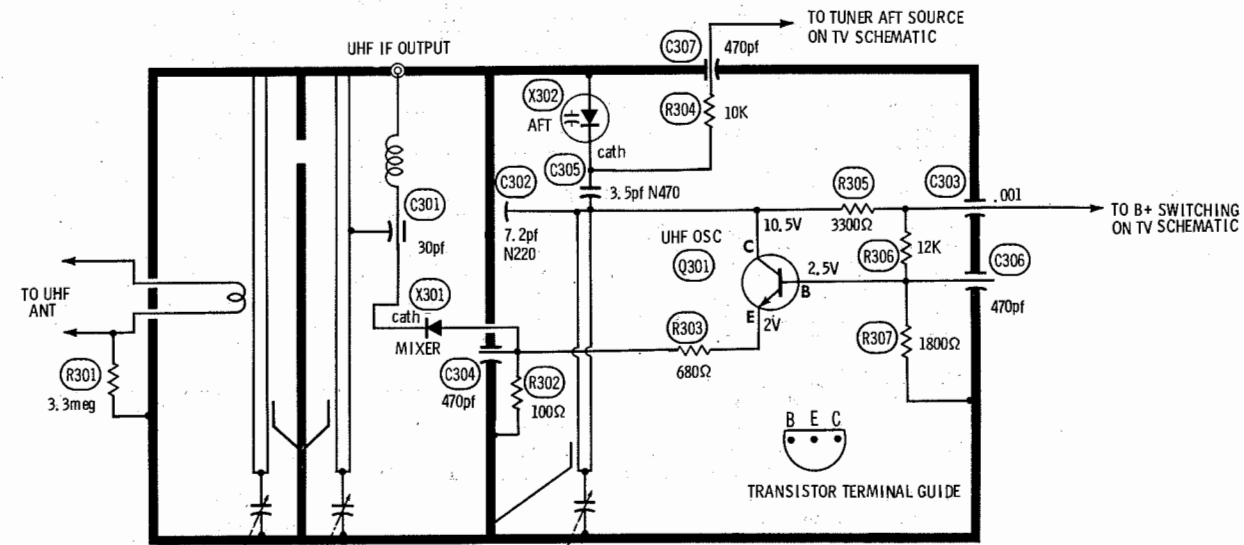


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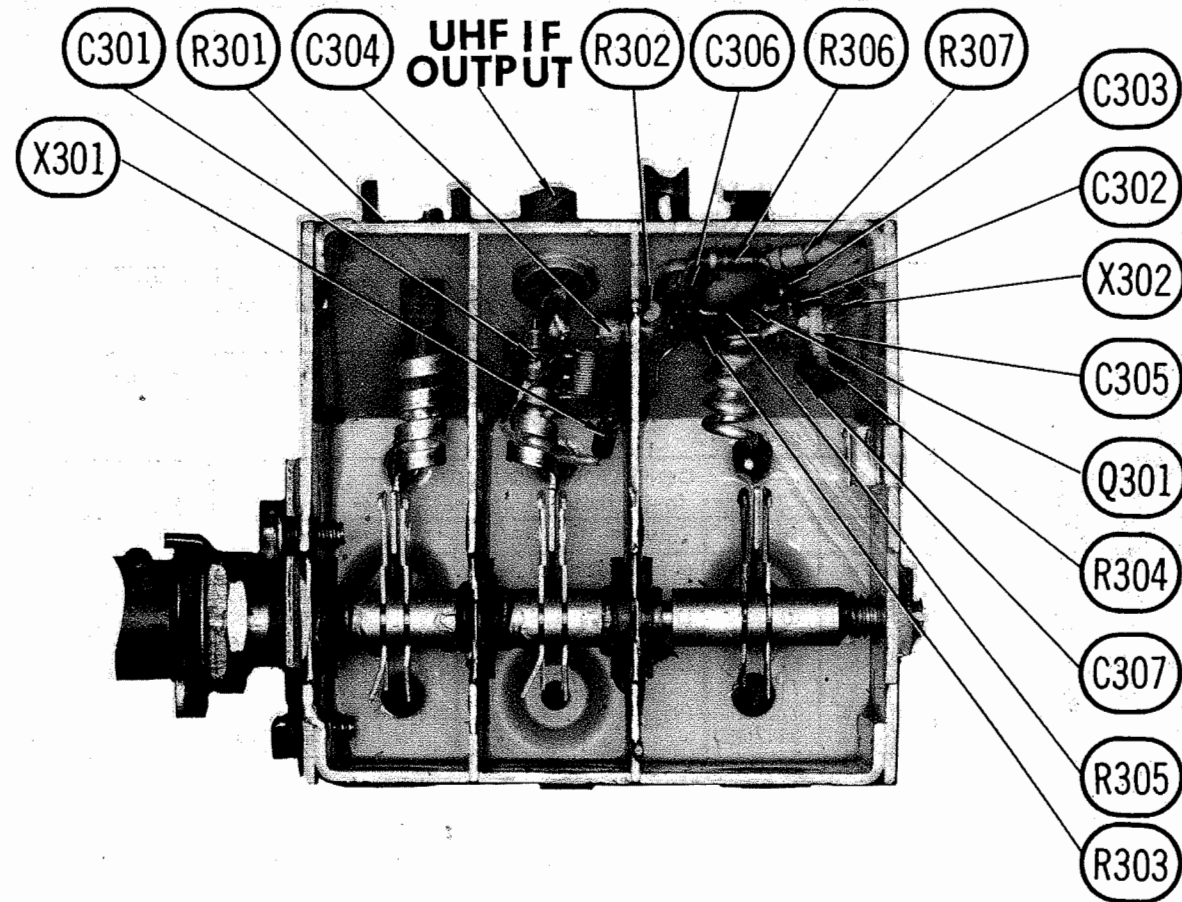
VHF TUNER 175-1166, 67

ZENITH CHASSIS 16Z8C50

FOLDER 3

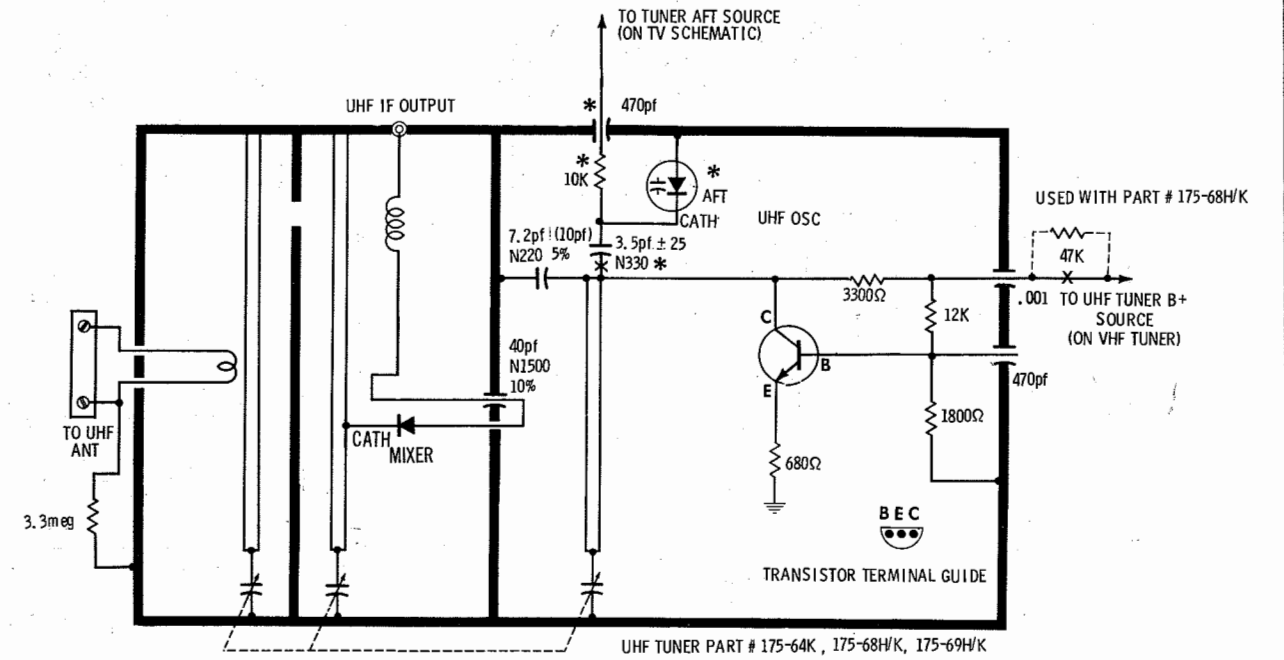


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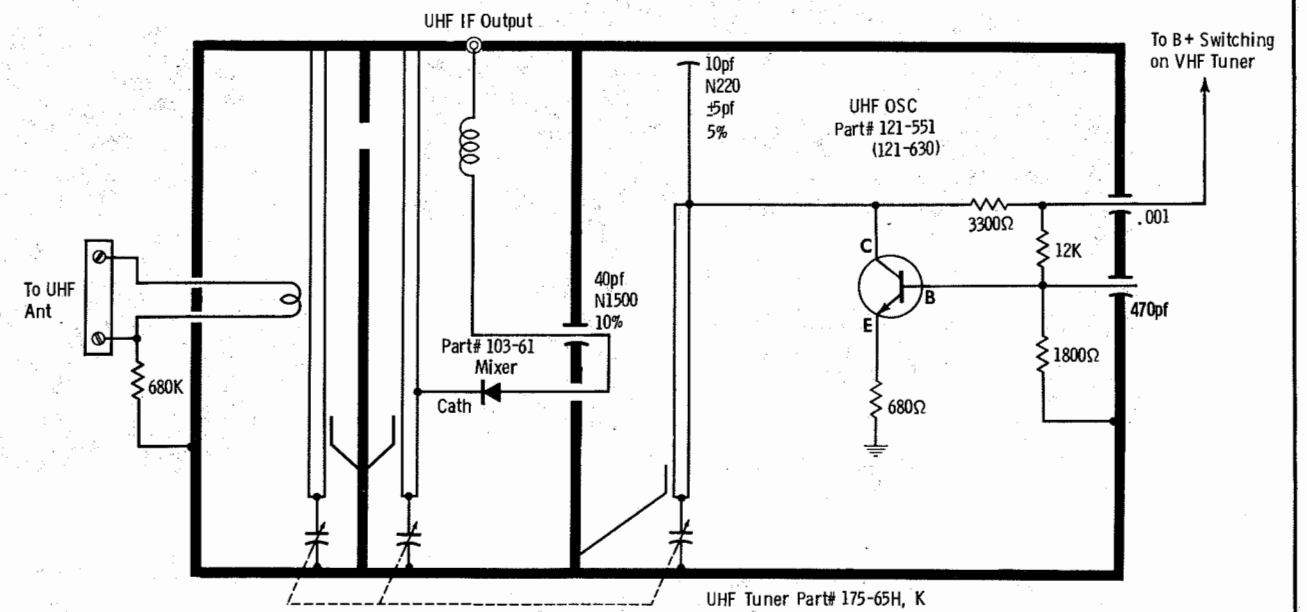


UHF TUNER 175-74K

UHF TUNER 175-64K, 175-68H, K, 175-69H, K

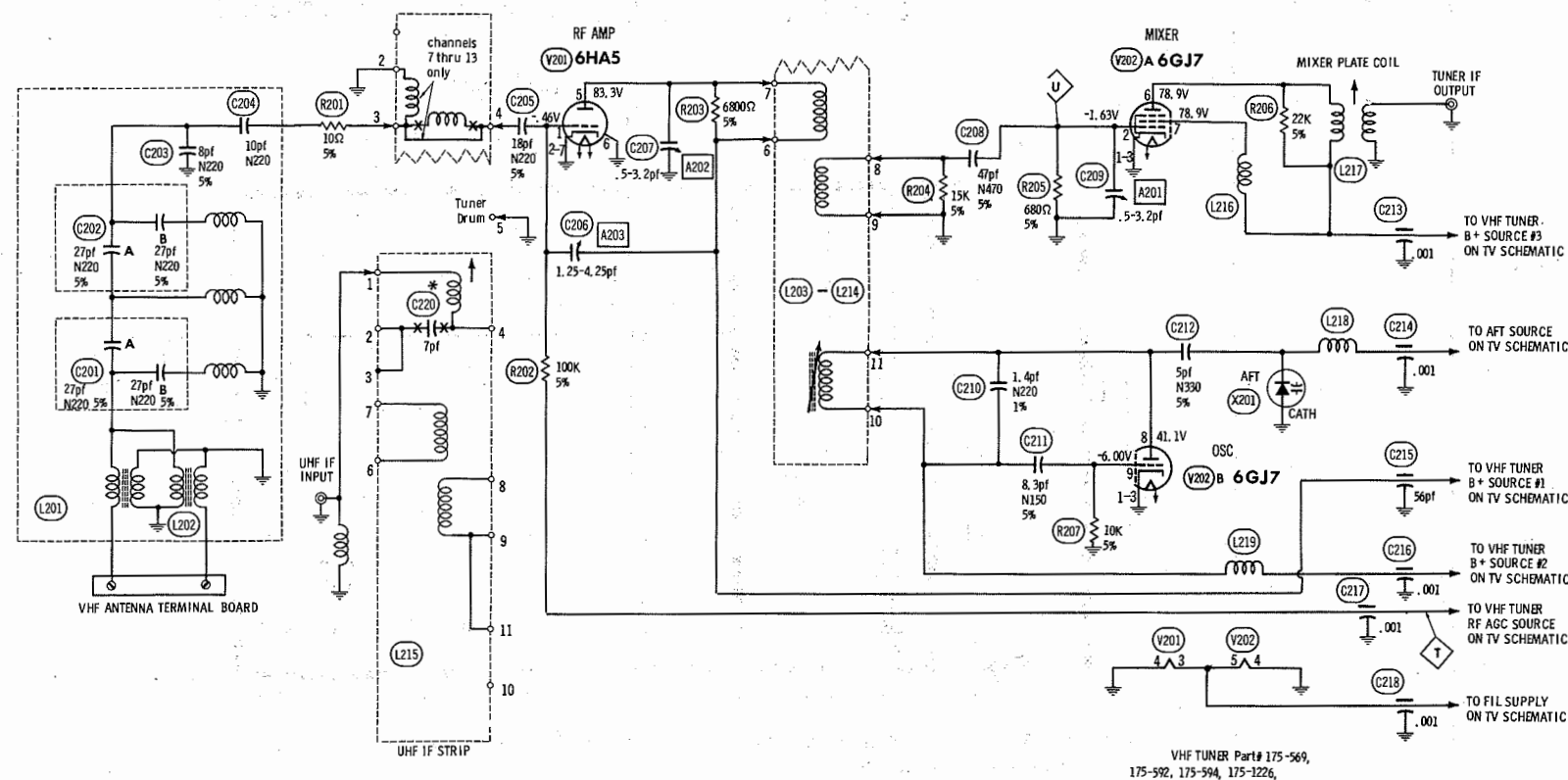


A PHOTOFAC STANDARD NOTATION SCHEMATIC * NOT USED WITH PART #175-68H/K
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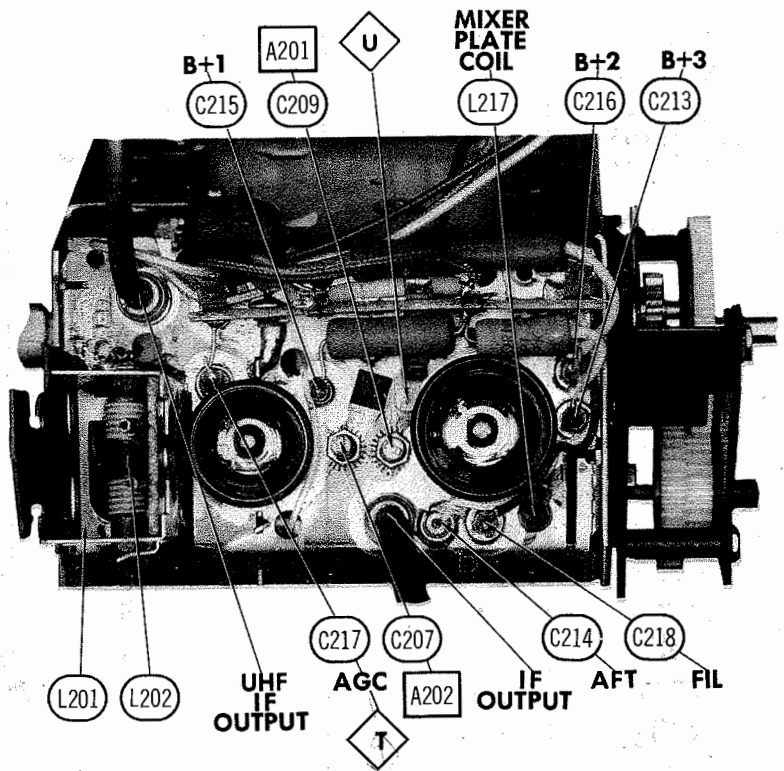
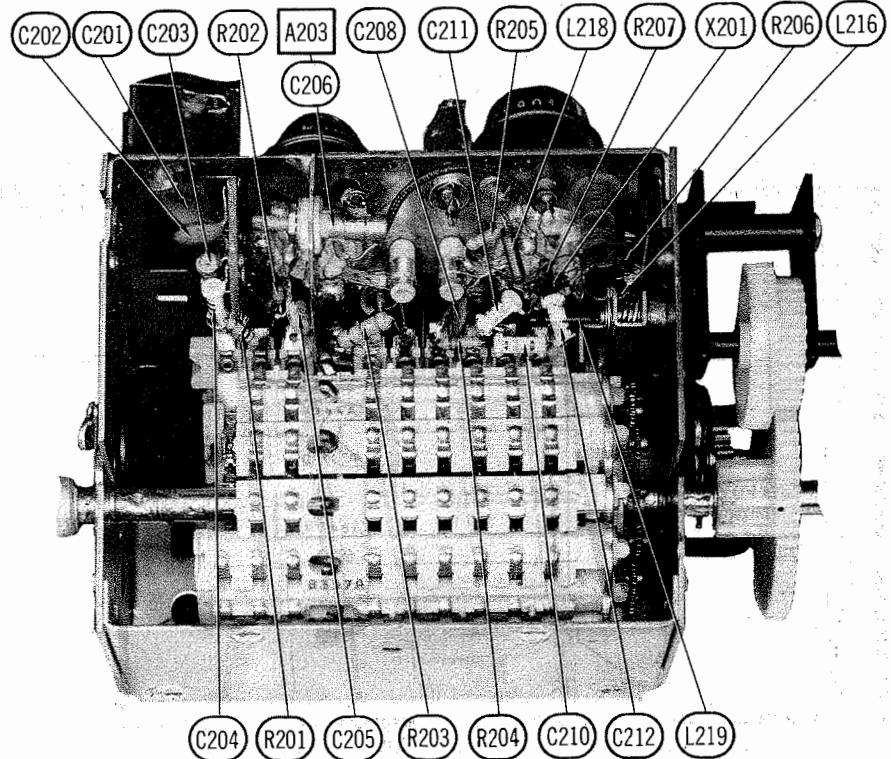
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UHF TUNER 175-65H, K



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VHF TUNER Parts 175-569,
175-592, 175-594, 175-1226,



VHF TUNER 175-569, 592, 594, 1226

VHF TUNER ALIGNMENT INSTRUCTIONS

Suggested Alignment Tools: GENERAL CEMENT WALSCO
A201, A202, A203 8868, 8987, 9089 2531X, 2541, 2587

OSCILLATOR ADJUSTMENTS TUNERS: 175-569, 175-592/594, 175-653/654, 175-1226
The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound.

OSCILLATOR ADJUSTMENTS TUNERS: 175-651/652, 175-1152/1166/1167
The oscillator slug for each channel is preset with the fine tuning control. Adjust the fine tuning for best picture and sound. If necessary, adjust the overall oscillator adjustment. Recheck.

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. Connect a variable bias to the RF AGC line at Point ∇ . Adjust bias to obtain response curve which shows no indication of overloading.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point ∇ , low side to ground.	TUNERS: 175-569, 175-592/594, 175-653/654, and 175-1226 - 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 -20 volts and adjust for MINIMUM amplitude or response (A203).
12 thru 2	Vertical input to Point ∇ , low side to ground.	Decrease bias. Check response on all channels and make compromise adjustments of A201 and A202 if necessary.

CHANNEL	CONNECT SCOPE	REMARKS
13	Vertical input to Point ∇ , low side to ground.	TUNERS: 175-1152, 175-1165/1166/1167 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 and adjust for MINIMUM amplitude of response (A201).
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.

GENERATOR FREQUENCY						FIG. 201
Numbers in () indicate channel number						
SWEEP	MARKER	SWEEP	MARKER	SWEEP	MARKER	SOUND VIDEO
(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	

ZENITH
CHASSIS 16Z8C50

FOLDER 3

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	ITEM No.	USE	TYPE
V201	RF Amp.	6HA5	V202	Mixer - Oscillator	6GJ7			

COILS (RF-IF)

ITEM No.	USE	MFR. PART No.	NOTES	ITEM No.	USE	MFR. PART No.	NOTES
L201	Ant. Filter Ass'y	S-77781	Part of L201	L211	Ant., RF, Mixer, Osc.	174-360	Channel 10 Strip
L202	Balun	S-49189	Channel 2 Strip	L212	Ant., RF, Mixer, Osc.	174-361	Channel 11 Strip
L203	Ant., RF, Mixer, Osc.	174-342	Channel 3 Strip	L213	Ant., RF, Mixer, Osc.	174-362	Channel 12 Strip
L204	Ant., RF, Mixer, Osc.	174-343	Channel 4 Strip	L214	Ant., RF, Mixer, Osc.	174-363	Channel 13 Strip
L205	Ant., RF, Mixer, Osc.	174-344	Channel 5 Strip	L215	IF UHF	174-350	Channel 1 Strip
L206	Ant., RF, Mixer, Osc.	174-345	Channel 6 Strip	L216	RF Choke	20-1030	
L207	Ant., RF, Mixer, Osc.	174-346	Channel 7 Strip	L217	Mixer Plate	S-77030	
L208	Ant., RF, Mixer, Osc.	174-357	Channel 8 Strip	L218	RF Choke	S-49738	
L209	Ant., RF, Mixer, Osc.	174-358	Channel 9 Strip	L219	RF Choke	S-49738	
L210	Ant., RF, Mixer, Osc.	174-359	Channel 9 Strip	L220	UHF IF Input	20-1056	Crystal DC Return

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMenco PART No.	MALLORY PART No.	SPRAGUE PART No.
C201A	27 N220 5%	#22-3553						10TCR-Q27
C201B	27 N220 5%	#22-3553						10TCR-Q27
C202A	27 N220 5%	#22-3553						10TCR-Q27
C202B	27 N220 5%	#22-3553						10TCR-Q27
C203	8 N220 ±.5							10TCR-Q27
C204	10 N220 ±.25							10TCR-V82
C205	18 N220 5%							10TCR-Q10
C206	1.25-4.25	#22-5348						10TCR-Q18
C207	.5-3.2	#22-4510						
C208	47 N470 5%							
C209	.5-3.2	#22-4510						10TCT-Q47
C210	1.4 N220 ±.1	#22-5668						
C211	8.3 N150 ±.25							10TCP-V82
C212	5 N330 ±.25							10TCS-V50
C213	.001	#22-4613						
C214	.001	#22-4718						
C215	.56 ±7.5%	#22-3488						
C216	.001	#22-4613						
C217	.001	#22-4613						
C218	.001	#22-4613						

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

UHF TUNER PARTS LIST AND DESCRIPTION

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

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA						
			MFR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q301		UHF Oscillator	121-551		GE-11	TR-24	HEP56	SK3019	ECG 109

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.		
X301	103-65	1N82A	1N82AG	ECG 112		(1) Variable Capacitor Diode
X302	103-104 (1)					

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMenco PART No.	MALLORY PART No.	SPRAGUE PART No.
C301	30	#22-5836						
C302	7.2 N220 5%	#22-5366						
C303	.001	#22-4651						
C304	470	#22-5062						
C305	3.5	#22-5367						
C306	470	#22-5062						
C307	470	#22-5062						

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

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
V1	Video Cathode Follower-1st Chroma Bandpass Amp.	6KT8	V8	Horiz. AFC - Horiz. Oscillator	6U10			
V2	Video Output	12HL7		Horiz. Discharge	6LB6			
V3	Sound-Sync Amp.-Sound IF Amp.	6KT8	V9	Horiz. Output	6CJ3			
V4	Audio Detector-Audio Output	6Z10	V10	Damper	6C33			
V5	AGC Keying-Noise Canceller-Sync Separator-Vert. Mult.	6BA11	V11	HV Rectifier	30C3 (3DB3) *			
V6	Vert. Mult.-Vert. Output	6HE5	V12	HV Regulator	6HV5			
V7	Pincushion Correction Amp.-3rd Chroma Bandpass Amp.	6KT8	V13	G-Y Amp.- B-Y Amp.- R-Y Amp.	6MJ8			
			V14	Z Demodulator-X Demodulator	6BV11			
			V15	Burst Amp.	6EJ7			
			V16	3.58MC Osc. Control-3.58MC Osc.	6GH8A			

* Alternate

PICTURE TUBE

ITEM No.	REPLACEMENT DATA				NOTES
	MFR. PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	SYLVANIA PART No.	
V17	256P22A or 25AP22A or 25XP22	25AP22A	H25XP22 (1) C25XP22/25AP22A (2) C25AP22A (2) H22JP22 (1)	RE25AP22A (3) RE22JP22 (3)	(1) Hi-Lite (2) Colorama (3) Color Bright "85"
	* 22JP22 or 22QP22				
	* 22AHP22				

* Models: T2943W07/W08; Z4205W07/W08, Z4208W07; Z4216W07/W08; Z6208W07. * Models: Z4203C7/C07/C17/C18.

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA					
			MFR. PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	RCA PART No.	SYLVANIA PART No.
Q1		1st Video IF	121-500 (1)					
Q2		2nd Video IF	121-502 (2)					
Q3		3rd Video IF	121-520 (3)					
Q4		AFT Amp.	121-546 (4)					
Q5		Video Amp.	121-587	GE-20	TR-21	HEP738	SK3018	ECG 108
Q6		IF AGC Amp.	121-499	GE-17	TR-25	HEP728	SK3018	ECG 128
Q7		Blanking Amp.	121-587	GE-10	TR-21	HEP738	SK3020	ECG 123
Q8		2nd Chroma Bandpass	121-748	GE-17	TR-25	HEP728		ECG 128
Q9		Vert. Blanking	121-587	GE-17	TR-25	HEP728		ECG 128

(1) Alternate Part #121-501.
(2) Alternate Part #121-470.

(3) Alternate Part #121-521.
(4) Alternate Part #121-547.

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			REPLACEMENT RECTIFIERS	NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.		
X1	212-76 (212-37)	GE-504A	8D6 or 18DB8A (2)	ECG 116 or ECG 117	SK3017A or SK3032	(2) A single unit replacement for all four bridge circuit rectifiers.
X2	212-76 (212-37)	GE-504A	8D6 or 18DB8A (2)	ECG 116 or ECG 117	SK3017A or SK3032	
X3	212-76 (212-37)	GE-504A	8D6 or 18DB8A (2)	ECG 116 or ECG 117	SK3017A or SK3032	
X4	212-76 (212-37)	GE-504A	8D6 or 18DB8A (2)	ECG 116 or ECG 117	SK3017A or SK3032	
X5	103-23	1N60	1N60	ECG 109		
X6	103-90 (1)					
X7	103-90 (1)					
X8	103-23	1N60	1N542 (1)	ECG 110 (1)		(1) Matched pair.
X9	103-51	GE-504A	8D4	ECG 116		
X10	103-101	66C1	DD04	ECG 113		
X11	212-85	GE-504A	61-8969	ECG 118		
X12	212-68	GE-504A	61-8968	ECG 119		
X13	103-131	1N34AS	1N34A	ECG 110 (3)		(3) Matched pair.
X14	103-131	1N34AS	1N34A	ECG 110 (3)		
X15	103-142	GE-504A	8D4	ECG 116		
X16	103-131	1N34AS	1N34A	ECG 110 (3)		
X17	103-131	1N34AS	1N34A	ECG 109		
X18	103-114	1N34AS	1N34A	ECG 116 (5)	SK3017A (5)	(5) Four required.
X19	212-72 (212-71)	GE-504A (5)	8D4 (5)	ECG 116 (5)		(4) Zener Diode.
X20	103-105 (4)					
X21	103-142	GE-504A	8D4	ECG 116		
X22	103-142	GE-504A	8D4	ECG 116		

ZENITH
CHASSIS 16Z8C50

FOLDER 3

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						
		ZENITH PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	80 475V	22-5513	AFH3-50-20		CC0370A	XC4-34		TVL-3877
C	10 475V							
B	30 475V							
C2A	80 475V	22-5360	AFH4-19-75		DD0187A & WBR30-500	XC4-6.2		
B	30 475V							
C	4 475V							
D	4 475V							
C3	1 10V	22-4555	CRE750A	EA15-2	AL1-50	MT1-1	MTA1D50	TL-1120
C4	200 25V	22-5175	PR1280	EA30-250	WBR250-50	MT1-23.5	MTA200F25	TE-1213
C5	40 25V	22-4870	PTT84	EA30-50	NLW40-25	MT1-17	MTA40F50	TL-1208
C6	10 475V	22-4818	PR1810		WBR10-500	QT1-6.1	TC81A	TVA-1802
C7	100 50V	22-5262	PR1360	EA50-100	WBR125-50	QT1-23	TC3501A	TL-1309
C8	40 400V	22-5407	PR1750		WBR40-500	QT1-14.1	TC78A	TVA1712
C9	4 150V	22-5425	CRE953A		WBR5-150	MT1-4	TT150X4	TE-1503
C10	1 NP 25V	22-4909	PR17525		BRNP1-50		TCN501	TVAN1200
C11	3 NP 30V	22-2945	PR17405		BRNP4-50	NPQT-1	TCN503	TVAN1215

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					SPRAGUE PART No.
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	
C12	8 NPO ±.25		NPO-DI 8.2					10TCC-VB2
C13	2	#22-4731						
C14	4.25 N75 ±.25	#22-3703						
C15	6	#22-5525						
C16	4.25 N75 ±.25	#22-3703						
C17	4.25 N75 ±.25	#22-3703						
C18	5 NPO 5%		NPO-DI 5.0		CZ601CH5R0D			10TCC-V50
C19	5 NPO 5%		NPO-DI 5.0		CZ601CH5R0D			10TCC-V50
C20	.15 50V		V1612P15		DMF1P15	1DP-3-154	PVC1015	225P1549R75
C21	.001	#22-4728						
C22	.001 25V		GPD X5F102K	DM-102	JBS601YP102K	CCD-102	SM210	2SS-D10
C23	.001	#22-4728						
C24	.001	#22-4738						
C25	.002	#22-4729						
C26	.001	#22-4728						
C27	.001	#22-4735						
C28	26 N075 5%	#22-3939						
C29	47	#22-4738					*	
C30	75	#22-4739						
C31	.002	#22-4729						
C32	20	#22-4737						
C33	.001 25V		GPD X5F102K	DM-102	JBS601YP102K	CCD-102	SM210	2SS-D10
C34	.002	#22-4729						
C35	.001	#22-4728						
C36	.001	#22-4728						
C37	1		NPO-DI 1.0	TCZ-1			CN0510	10TCC-V10
C38	50 NPO 5%			DTZ-50			CN0450	10TCC-Q50
C39	100	#22-4740						
C40	4.25 N75 ±.25	#22-3703						
C41	5.5 NPO 5%	#22-3053						
C42	16 NPO 5%	#22-3558						
C43	6	#22-5525						10TCC-V56
C44	4	#22-4732						
C45	2	#22-4731						
C46	75 NPO 5%			DTZ-75	CZ601WJ120J		CN7412	10TCC-Q75
C47	12 N750 10%			TCN-12	CZ601CG100J	CCT0-100	CN0410	10TCC-Q12
C48	10 NPO 10%		NPO-DI 10	DTZ-10				10TCC-Q10
C49	47 N75 10%							
C50	180 10%		GPD X5F181K	DD-181	JBZ601YP181K	CCD-181	GP318	10TS-T18
C51	.1 200V		DBE2P1		DMF2P1	2DP-3-104	PVC201	2PS-P10
C52	.001	#22-4728						
C53	8.2 NPO ±.5		NPO-DI 8.2					10TCC-VB2
C54	220							
C55	.002	#22-4729						
C56	.001	#22-4728						
C57	.001	#22-4728						
C58	10 ±.5		GPD COH100K	DD-100	CZ601CG100K	CCD-100	GP410	10TS-Q10
C59	10 ±.5		GPD COH100K	DD-100	CZ601CG100K	CCD-100	GP410	10TS-Q10
C60	.001	#22-4728						
C61	3.6 N75 ±.25							
C62	1-9							
C63	4	#22-4732						
C64	2	#22-4731						
C65	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C66	47 N075 5%						*	
C67	4.3 NPO ±.25	#22-3703						
C68	50 N750		N750-DI 47	TCN-50	CY601WJ470K	CCTN-470	CN7447	10TCU-Q47
C69	180		ADM-15-181	CPR-180J	CD15F181J500	DM-15-181K	SX318	#24ME1800J501
C70	.001 1KV 10%		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-D10
C71	100 5%			DTZ-100			CN0310	10TCC-T10
C72	2.4 5%	#22-2596						
C73	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C74	20 N330 10%			TCA-22		*	*	10TCC-Q22
C75	470 N1500 10%					*	*	10TCW-T47
C76	220 1KV 10%		GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C77	150 N750		N750-DI 150	DTN-150		CCTN-151	CN7315	10TCU-T15
C78	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C79	.0047		GPD X5R472K	DD-472G	JBT601YP472K	CCD-472	JF247	10TS-D47
C80	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C81	.0022 1KV		GPD X5F222K	DD-222	JBX601YP222K	CCD-222	GP222	10TS-D22
C82	.15 100V		V1612P15		DMF1P15	1DP-3-154	PVC1015	2PS-P15
C83	220 1KV 10%		GPD X5F221K	DD-221	JBZ601YP221K	CCD-221	GP322	10TS-T22
C84	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C85	.01		GPD X5S103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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COILS (Sweep Circuits)

ITEM No.	FUNCTION	REPLACEMENT DATA						
		MFR. PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	THORDARSON MEISSNER PART No.	TRIAD PART No.	WORKMAN PART No.
L51	Horiz. Osc. (Hold)	S-56877		H-161		HS-24		
L52	Horiz. Efficiency	S-77975	MWC-6	6322	WC-8A	WC-28 (1)	WLC-5	T107
L53	Pincushion	S-81429						
L54	Right R/G Vert. Lines	S-73854	MWC-6	6322	WC-8A	WC-28 (1)	WLC-5	T107
L55	Right R/G Horiz. "	S-58041		H-162		WC-51		
L56	Right Blue Horiz. "	S-73854	MWC-6	6322	WC-8A	WC-28 (1)	WLC-5	T107
L57	Convergence Yoke Assembly	S-79029						
A	Blue Coil	S-79393						
B	Green Coil	S-79392						
C	Red Coil	S-79394						
	Alternate Conv. Yoke Assembly	S-76430						

(1) Disregard Tap.

TRANSFORMER (Power)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	MFR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC @ 3.2A AC	315VAC @ .53A DC	6.3VAC @ .82A AC	95-2700					(1) Alternate used in some versions.
		12.6VAC CT @ 12A AC		95-2550 (1)					

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	MFR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	6000	3.2	95-2561	A-3020	A-8092	26548	S-53X	

TRANSFORMERS (Sweep Circuits)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		MFR. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T3	Yoke (Horiz. 13mh) 90° (Vert. 20mh) Vert. Output	95-2532	MDF-145C (1) (2)	DY-91AC (1)	Y108 (1)	YC-310-2 (1)	(1) Use original yoke plug and leads.
T4		95-2551-E (95-2551)			26530 (3)		(2) Install original 220 ohm resistors in series between yoke terminal #6 and yoke terminal #4. Connect original violet lead to junction of 220 resistors.
T5	Horiz. Output Horiz. Output, Alternate	S-83360	S-79640				(3) Exact replacement.

SWEEP COMPONENT CONNECTION DATA

ORIGINAL →	YOKE												YOKE PLUG									
	Original Connections												TO YOKE TERMINALS									
REPLACEMENT ↓	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10
MERIT									(1)				10	9	7	6	(2)	11	5	4		
STANCOR	Red	Blue	Blue	Yel/Blk	Yel/Blk	Yel/Blk	Purp	Vio	Whi	Red	Whi	Org.					(3)					
THORDARSON	Red	Blue	Blue	Yel/Blk	Yel/Blk	Yel/Blk	Purp	Vio	Whi	Red	Whi	Org.					(3)					
TRIAD	1	3	4	6	8	9	11	12	(3)				1	12	3	4	5	9	11	6		

(1) Install original 220 ohm resistors in series between yoke terminal #6 and yoke terminal #4. (2) Connect original violet lead to junction of 220 ohm resistors. (3) Use original yoke plug and leads.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFR. PART No.	QUAM PART No.	
SP1	3" x 5" PM 3.2 ohms	49-1131 49-1092 49-1132 49-1134	35A05	Used in Models: GA50-59M7/W07, T2991P07 only. Used in Model: T2983M07 only (2 used). Used in Models: T2984M07, T2985M07, T2987M07 only (2 used).
	6" x 9" PM 3-4 ohms	49-1059 and 49-1133	69A1	Used in Models: Z4533M07, Z4535M07, Z4538DE07/P07 only.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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RESISTORS (Power and Special)

Table with 4 columns: ITEM No., RATING, REPLACEMENT DATA (IRC PART No., WORKMAN PART No., MFR. PART No.), and a second set of the same columns.

* Voltage Dependent Resistor

COILS (RF-IF)

Table with 5 columns: ITEM No., USE, REPLACEMENT DATA (PART No., MEISSNER PART No., MILLER PART No., WORKMAN PART No.), and a second set of the same columns.

- (1) Includes 6800 ohm resistor.
(2) Includes 12K resistor.
(3) Includes 18K resistor.
(4) Includes 27K resistor.

- (5) Shunt with 6800 ohm resistor.
(6) Shunt with 12K resistor.
(7) Shunt with 18K resistor.
(8) Shunt with 27K resistor.

FILTER CHOKE

Table with 10 columns: ITEM No., RATINGS (CURRENT, DC RES., INDUCTANCE), REPLACEMENT DATA (MFR. PART No., MERIT PART No., STANCOR PART No., THORDARSON PART No., TRIAD PART No.), and NOTES.

FUSE DEVICES

Table with 5 columns: ITEM No., DESCRIPTION, REPLACEMENT DATA (PART No., BUSS PART No., LITTELFUSE PART No., WORKMAN PART No.), and a second set of the same columns.

PARTS LIST AND DESCRIPTION (CONTINUED)

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

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CAPACITORS (cont)

Large table with 10 columns: ITEM No., RATING, REMARKS, and four columns of REPLACEMENT DATA (AEROVOX PART No., CENTRALAB PART No., CORNELL-DUBILIER PART No., ELMENCO PART No., MALLORY PART No., SPRAGUE PART No.).

ZENITH CHASSIS 16Z8C50

FOLDER 3

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					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C179	.1 600V		DBE6P1		DMF6P1	6DP-4-104	PVC601	6PS-P10
C180	.01		GPD X55103K	DD-103	BYX601ZU103P	CCD-103	JF110	10TS-S10
C181	.001	#22-4728						
C182	.001	#22-4628						
C183	13	#22-4741						
C184	470 1KV		GPD X5F471K	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C185	47 N75 10%							
C186	.001		GPD X5F102K	DD-102	JBS601YP102K	CCD-102	GP210	10TS-O10
C187	6.8 N75 10%							
C188	.033 400V 10%		DBE6S33		OPMS6S33	40P-2-333	PVC6133	4PS-S33

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

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

ITEM No.	FUNCTION	RESIST-ANCE	REPLACEMENT DATA				
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Hue	2500	63-7549	F1-2500, SNF100	NP-2500-S, SE-F-400, TT-2	B11-111, TM8 or [BU11, CF86, SS4, DC1]*	RU252L, SL37, SD750 or [UA33L, S0750]
	Hue (Motor Driven)	2500	63-6400 (6) (12)				
	Hue	2500	63-6401 (9)				
	Hue	2500	63-7141 (10)				
	Hue	2500	63-6881 (7)				
	Hue	2500	63-6882 (9)				
R2	Volume/Switch	1meg, 600K Tap	63-7355	F16-1meg, SP212, KR-8	C47SF-1meg, RS-3/16 or [NPF-1meg, UPP-H-400, PPAP, NMG-18]	B19-137X, SK8 or [PP019-137X, SK8] or [BU1, CF47T, SS11A, K]*	RUP16T35, SL35 or [PP16T55, OS37] or [P16T55, 3014, FPP-1]
	Volume	1meg	63-7327 (10)				
	Volume	1meg	63-7333 (8)				
	Volume	1meg, 500K Tap	63-7352 (6)	F16-1meg, SFS212	A47F5-1meg, RS-3/16 or [NPF-1meg, SE-F-400]	B19-137X, SK9 or [BU2, CF47T, SS4, DC1]*	RU16T55, SL35, IS2187 or [UA16T454, S02250] or [P16T55, 3038, SF3062]
R3	Color Level	500	63-7550	F4-500, SNF100		BU11, CF77, SS4, DC1 *	UA751A, SD750
R4	Color Level	500	63-7142 (10)				
R5	Peak Picture	1500	63-7613				
R5	Height	7meg	63-5415	TT-90 or [F1-7.5meg, SNK010]	B47-7.5meg-S or [NP-7.5meg-S, NML-A-300, TT-2]	HLC6	PTA755L or [UA755L, SN281] or SU69
R6	Vert. Linearity	2000, 2W	63-6951, 0	V-2000 (1)	U39-2000 (1)	110-3000-350	MR1500P (1)
R7	Vert. Hold	750K	63-6979				
R8	Contrast	500	63-6980				
R9	Brightness	1meg	63-7092				
R10	Brightness Range	3meg	63-7101	TT-84 or [F1-3meg, SNK010]	B47-3meg-S or [NP-3meg-S, NML-A-300, TT-2]	B11-140, TM4 or [BU11, CF21, SS6]*	RU36L, SL37, SN281 or [UA36L, SN281] or SU59
R11	Tone, Detent at 50%	1meg	63-7351				
R12	Color Killer	2meg	63-5463	TT-75 or [F1-2meg, SNK010]	B47-2meg-S or [NP-2meg-S, NML-A-300, TT-2]	B11-139, TM4 or [BU11, CF19, SS6]*	PTA26L or [RU26L, SL37, SN281] or [UA26L, SN281]
R13	Color Killer	2meg	63-7607 (11)				
R13	AGC Delay	400, 2W	63-7636	V-500	U39-500 or [NPW-400, NML-A-300, TT-2]	P115R501A or [BU1, WF20, SS6]*	MR500T or MR500B or VW400
R14	Buzz	750, 2W	63-6950, C	V-800	U39-800 or [NPW-750, NML-A-300, TT-2]	110-1000 or P115R102A or [BU1, WF2, SS6]*	MR850T or MR1000P or VW750
R15	Blue Screen (G2)	5meg	63-6977	F1-5meg (2), SNK012		HLC5 (2)	PTA56L (2) or [UA56L (2), SN1000] or [RU56L (2), SN1000]
R16	Red Screen (G2)	5meg	63-6978	F1-5meg (2), SNK012		HLC5 (2)	PTA56L (2) or [UA56L (2), SN1000] or [RU56L (2), SN1000]
R17	Green Screen (G2)	5meg	63-6976	F1-5meg (2), SNK012		HLC5 (2)	PTA56L (2) or [UA56L (2), SN1000] or [RU56L (2), SN1000]
R18	AGC	5000	63-7389	TT-10 or [F1-5000, SNK010]	B47-5000-S or [NP-5000-S, NML-A-300, TT-2]	B11-114, TM4 or [BU11, CF8, SS6]*	PTA53L or [RU53L, SL37, SN281] or [UA53L, SN281]
R19	Green Gain (Drive)	5000	63-6334	F1-5000 (2), SNK012	B47-5000-S (2) or [NP-5000-S (2), NML-A-300]	B11-114, TM4 (2) or [BU11, CF8, SS6]*	PTA53L (2) or [RU53L (2), SN1000] or [UA53L (2), SN1000]
R20	Blue Gain (Drive)	5000	63-6333	F1-5000 (2), SNK012	B47-5000-S (2), [NP-5000-S (2), NML-A-300]	B11-114, TM4 (2) or [BU11, CF8, SS6]*	PTA53L (2) or [RU53L (2), SN1000] or [UA53L (2), SN1000]

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					
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R21	High Voltage Adjust	3meg	63-7628	TT-84 or [F1-3meg, SNK010]	B47-3meg-S or [NP-3meg-S, NML-A-300, TT-2]	63-7628	B11-140, TM4 or [BU11, CF21, SS6]*	RU36L, SL37, SN281 or [UA36L, SN281] or SU59
R22	Vert. Centering	10, 2W	63-7009	V-10 (5) or [WN100]	U39-15 (5) or [NPW-10, NML-A-300, TT-2]	63-7009	110-15 (5) or P115R100A or [BU1, WF16, SS6]*	MR15P (2) or MR10T or VW10
R23	Horiz. Centering	10, 2W	63-7211			63-7211	P115R100A (2), P115-117-1	MR15P (2), MRS1250, FCRI56L
R24	Focus	15meg	63-7210			63-7210	P115R101A, P115-117-1 or [BU11, WF19, SS6]*	MR100T, MRS1250
R25	R-G Horiz. Lines (Top)	120, 2W	63-7073	V-120 (3)	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	63-7073	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	MR100T, MRS1250
R26	R-G Vert. Lines (Top)	120, 2W	63-7073	V-120 (3)	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	63-7073	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	MR100T, MRS1250
R27	Blue Horiz. Lines (Top)	60, 2W	63-7348	V-60 (3)	U39-75 (3) or [NPW-75, NML-A-300, TT-2]	63-7348	P115R500A, P115-117-1 or [BU11, WF18, SS6]*	MR50T, MRS1250
R28	Blue Horiz. Lines (Left)	180, 2W 60 Stop	63-7076	V150 (4)	U39-150 (4)	63-7076	P115R101A (4), P115-117-1 or 110D175-60 or [BU11, WF1 (4), SS6]*	MR175SP, MRS1250
R29	R-G Vert. Lines (Left)	70, 2W	63-7075	V-100	U39-75	63-7075	P115R101A, P115-117-1 or [BU11, WF19, SS6]*	MR100T, MRS1250
R30	R-G Horiz. Lines (Left)	60, 2W	63-7074	V-60 (3)	U39-75 (3) or [NPW-75, NML-A-300, TT-2]	63-7074	P115R500A, P115-117-1 or [BU11, WF18, SS6]*	MR50T, MRS1250
R31	R-G Horiz. Lines (Bottom)	120, 2W	63-7073	V-120 (3)	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	63-7073	P115R101A, P115-117-1 or [BU11, WF19, SS6]*	MR100T, MRS1250
R32	R-G Vert. Lines (Bottom)	60, 2W	63-7074	V-60 (3)	U39-75 (3) or [NPW-75, NML-A-300, TT-2]	63-7074	P115R500A, P115-117-1 or [BU11, WF18, SS6]*	MR50T, MRS1250
R33	Blue Horiz. Lines (Bottom)	120, 2W	63-7347	V-120 (3)	U39-125 (3) or [NPW-150, NML-A-300, TT-2]	63-7347	P115R101A, P115-117-1 or [BU11, WF19, SS6]*	MR100T, MRS1250

- Connect a 270 ohm, 2 watt resistor in series with terminal.
- Use original nylon tab mount.
- Insulate control from chassis and solder original center terminal lead to metal case of control.
- Connect a 56 ohm, 2 watt resistor in series with terminal. * "SNAPTROL"
- Use original nylon tab mount and solder original center terminal lead to metal case of control.
- Alternate Part, used in Models GA50-59W7 and GA50-59W07.
- Part #63-6881 may be used in place of 63-6400, but they are not interchangeable.
- Alternate Part, used in Model Z6208W07.
- Alternate Part; either may be used in Model Z6208W07.
- Alternate Part, used in Models T2943W07/W08, Z4203C7/C07/C17/C18, Z4205W07/W08, Z4216W07/W08.
- Part #63-7607 used in late production models.
- Part #63-7412 includes control and motor assembly.

PARTS LIST AND DESCRIPTION

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

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA			
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MOTOROLA PART No.	SYLVANIA PART No.
Q1	121-494	1st Amp.	GE-2	TR-14	HEP254	SK3004
Q2	121-491	2nd Amp.	GE-2	TR-14	HEP254	SK3004
Q3	121-492	3rd Amp.	GE-2	TR-14	HEP254	SK3004
Q4	121-493	Limiter	GE-2	TR-14	HEP254	SK3004
Q5	121-490	Relay Control		TR-05		
Q6	121-490	Relay Control		TR-05		
Q7	121-490	Pilot Stepper		TR-05		
Q8	121-490	Relay Control		TR-05		

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFR. PART OR TYPE No.	FUNCTION	REPLACEMENT DATA		NOTES
			GENERAL ELECTRIC PART No.	SYLVANIA PART No.	
XI	212-79	GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117	SK3031 or SK3031A

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	ZENITH PART No.	REPLACEMENT DATA		
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.
C1	200 35V	22-3721	PRS1530	EAS-10	BR200-150
C2	10 30V	22-3705	CHP207A		MTL-5
C3	25 30V	22-3642	FRS2175		BRBD3815
C4	40 30V		FRS2195		BRBD4415
C5	4,200V 5%	NP-PRES750			BRNPS-400

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA			
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.
C11	.05		TTP-05	CK-503	HOV101ZV502Z	CCD-503
C12	.005		TTP-05	CK-502	HOV101ZV502P	CCD-502
C13	.05		TTP-05	CK-503	HOV101ZV502Z	CCD-503
C14	.05		TTP-05	CK-503	HOV101ZV502Z	CCD-503
C15	.05		TTP-05	CK-503	HOV101ZV502Z	CCD-503
C16	.01		TTP-05	CK-503	HOV101ZV502Z	CCD-503
C17	.05		GPD-20-821	CDR-8201	CD19F821F00	DM-19-821J
C18	500 100V 5%		ADM-20-821	CPR-8201	CD19F821F00	DM-19-821J
C19	500 100V 5%		ADM-20-821	CPR-8201	CD19F821F00	DM-19-821J
C20	820 100V 5%		ADM-20-821	CPR-8201	CD19F821F00	DM-19-821J
C21	820 100V 5%		ADM-20-821	CPR-8201	CD19F821F00	DM-19-821J
C22	.47		V161A747		DPM6A747	4DP-6-474
C23	.0047		GPD-X8R472K	DD-472G	JF7801Y472K	CCD-472
C24	.001		GPD-X8F102K	DD-102	JES601Y102K	CCD-102

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

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA		
			MFR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.
R1	Sensitivity	18K	69-7534	F2-25K, SNK010	NP-25K-Z, NML-A-300, TT-2



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.

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DATE 1-70 SET 1074 FOLDER 3-A

RESISTORS (Power and Special)

ITEM No.	RATING	IRC PART No.	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
			WORKMAN PART No.	MFR. PART No.			IRC PART No.	WORKMAN PART No.
R21	1000 5W (10003 4W)	PW5-100	5W-50-100	69-3210				

COILS (RF-IF)

ITEM No.	USE	PART No.	REPLACEMENT DATA	
			MESSNER PART No.	MILLER PART No.
L1	39.50KC Input	95-2411		
L2	41.25KC	95-2044		
L3	40.25KC	95-2045		
L4	38.75KC	95-2046		
L5	37.75KC	95-2047		

TRANSFORMER (Power)

ITEM No.	RATING	SEC. 1	REPLACEMENT DATA		
			MFR. PART No.	MERT PART No.	STANCOR THORNDARSON PART No.
T1	117VAC @ .065A AC	22-5VAC A .089A DC	95-2459 (95-2216)		

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
K1	Relay	195-45	Trunk Up
K2	Relay	195-45	Trunk Down
K3	Relay	195-44	Pilot
K4	Relay	195-39	Pilot Stepper
K5	Relay	195-43	Mute Function
K6	Relay	195-35	Volume Step
S1	Switch	85-832	Auto-Mannual

ZENITH REMOTE CONTROL RECEIVER S-77536, TRANSMITTER S-83596

SET 1074 FOLDER 3-A

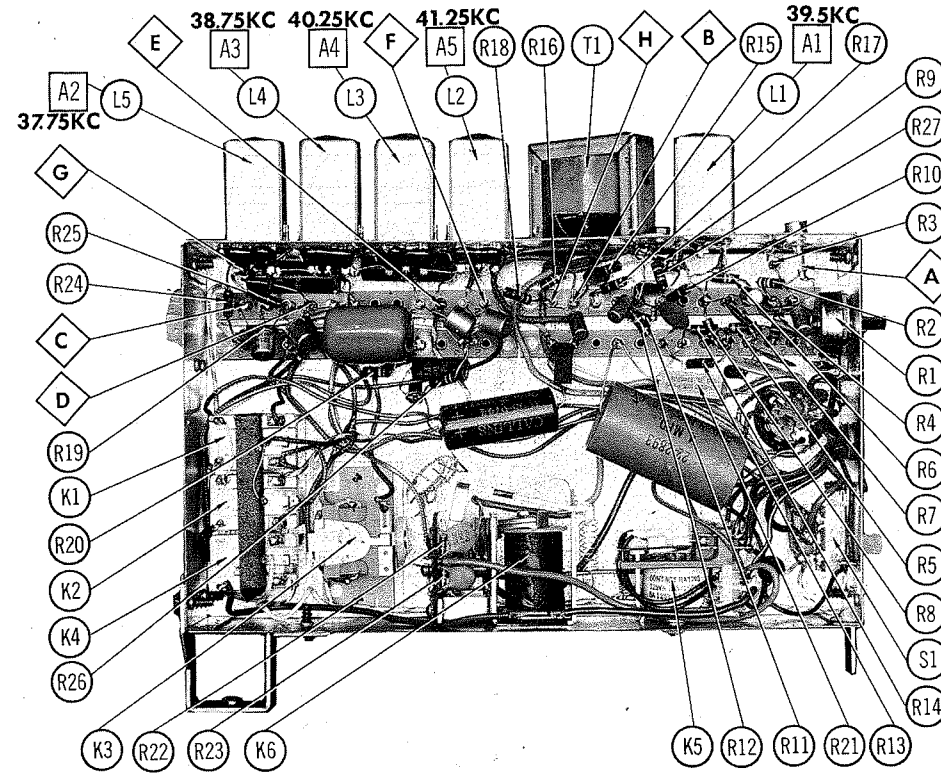
PHOTOFACT® Folder with CIRCUITRACE®



For Supplier Address See PHOTOFACT Index

IMPORTANT FILING NOTICE

This PHOTOFACT Folder covers equipment used with the TV chassis covered in PHOTOFACT SET 1074 FOLDER 3. File this Folder with the TV Folder in the yellow filing jacket provided.



REMOTE RECEIVER ALIGNMENT

When adjusting A2 thru A5, correct setting is achieved with dip nearest top of coil.						
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
1.	Connect high side thru a .002 capacitor to Point ⬠. Low side to ground.	39.5KC		RF probe to Point ⬠. Low side to ground.	A1	Connect jumper from Point ⬠ to Point ⬠. Adjust for maximum. Remove jumper.
2.	"	37.75KC		DC probe to Point ⬠. Low side to ground.	A2	Adjust for MINIMUM.
3.	"	38.75KC		DC probe to Point ⬠. Low side to ground.	A3	Adjust for MINIMUM.
4.	"	40.25KC		DC probe to Point ⬠. Low side to ground.	A4	Adjust for MINIMUM.
5.	"	41.25KC		DC probe to Point ⬠. Low side to ground.	A5	Adjust for MINIMUM.

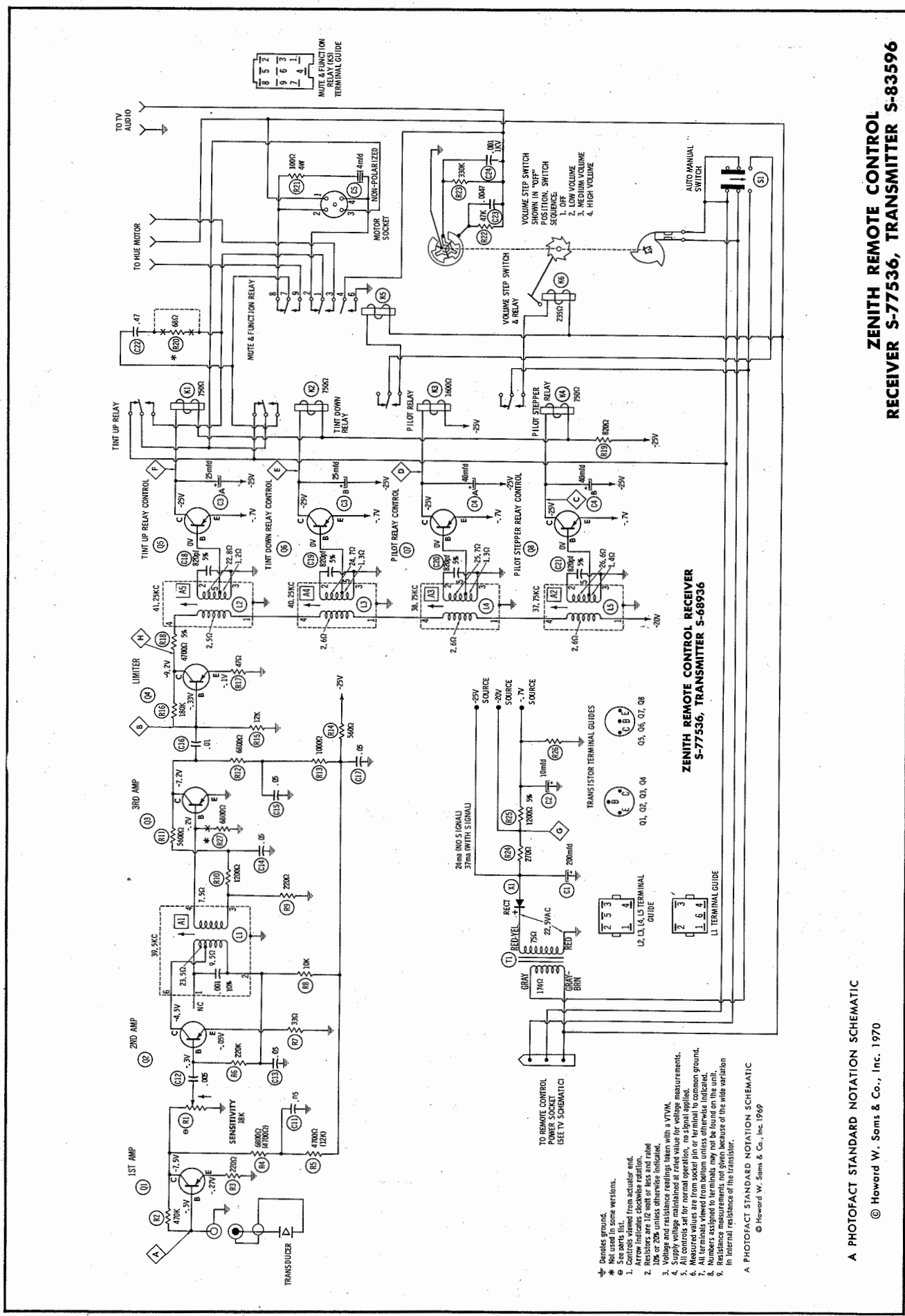
REMEMBER TO ASK— "What else needs fixing?"

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

ZENITH REMOTE CONTROL RECEIVER S-77536, TRANSMITTER S-83596

SET 1074 FOLDER 3-A

SB789R



A PHOTOFACT STANDARD NOTATION SCHEMATIC

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