

copy 26 pages

## DISASSEMBLY INSTRUCTIONS

### CHASSIS REMOVAL

1. Remove 4 push-on type control knobs from the front, 3 from the side.
2. Remove 2 metal screws and the rear cover.
3. Remove the metal screw holding the antenna terminal board.
4. Remove 8 metal screws holding the upper left and two lower corner braces.
5. Remove 2 speaker leads, 2 hex nuts and the speaker.
6. Remove the "C" washer from the tuner shaft at the front of the cabinet. This washer is for shipping purposes only and may be discarded.
7. Remove 2 metal screws holding the control bracket to the cabinet.
8. Loosen the 2 hex nuts holding the clamps which secure the channel rails to the front of the cabinet.
9. Remove 7 chassis bolts from the bottom.
10. Remove the chassis.

### CAUTION NOTE

ONE SIDE OF AC LINE CONNECTED TO CHASSIS

## SERVICING IN THE FIELD

### TUNER OSCILLATOR ADJUSTMENTS

Touch-up adjustment of the VHF oscillator is possible by removing the channel selector and fine tuning knobs. Set the fine tuning at the center of its range. One slug for HIGH band adjustment is located at 11 o'clock, and should be adjusted first. The LOW band adjustment is located at 4 o'clock. Adjust for best picture and sound.

### PICTURE TUBE SAFETY GLASS CLEANING

For picture tube and safety glass cleaning, it is necessary to remove the chassis. (See disassembly instructions.)

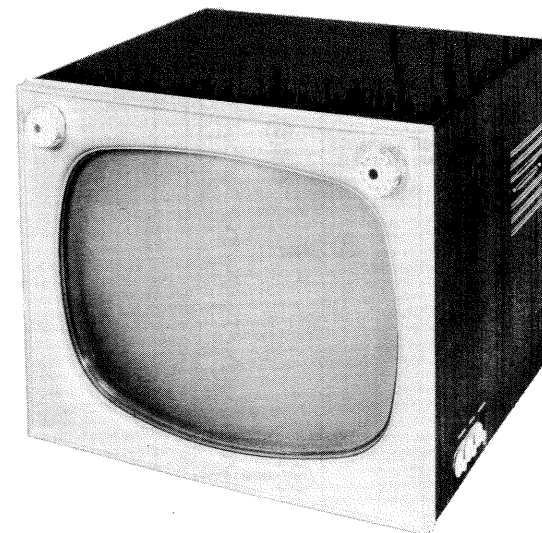
### SPECIAL ADJUSTMENTS

#### A. Focus

Adjust the Ion trap for the best focus consistent with maximum brightness.

#### B. Sync Control

1. Tune in the strongest station in the area.
2. Adjust the sync control, beginning at maximum clockwise position, counter clockwise to point of best sync stability.
3. Check all other receivable channels.



MODEL

CHASSIS

H21T107B .....V-2346-26

NOTE: If control is set too far counter clockwise the sync pulses will be clipped.

### HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

For adjustment of the horizontal oscillator, it is necessary to remove the rear cover and supply power to set. Set the horizontal hold at the center of its range and adjust the horiz. freq. slug (B2) until the picture synchronizes horizontally. (For location see tube placement chart.)

### SOUND IF DETECTOR BUZZ ADJUSTMENT

To eliminate audio detector buzz, adjust the quieting control for MINIMUM buzz and maximum sound. (For location see tube placement chart.)

### FUSES

A 7.5Ω fusible resistor (R92) is used for LV power supply protection. (For location see tube placement chart.)

### CENTERING

Centering is accomplished mechanically by adjusting two magnetic rings around the neck of the picture tube. Rotate the two rings around the neck of the tube until the picture is properly centered.

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DATE 5-57

SET 358

FOLDER 13

## DISASSEMBLY

### CHASSIS REMOVAL

1. Remove 4 push  
from the side.
2. Remove 2 meta
3. Remove the me  
board.
4. Remove 8 meta  
lower corner b
5. Remove 2 speal
6. Remove the "C"  
of the cabinet.  
and may be dis
7. Remove 2 meta  
cabinet.
8. Loosen the 2 he  
the channel rail
9. Remove 7 chas
10. Remove the ch

### ONE SIDE OF A

### TUNER OSCILLAT

Touch-up adjustme  
removing the chan  
fine tuning at the c  
adjustment is locat  
first. The LOW ba  
Adjust for best pic

### PICTURE TUBE S/

For picture tube ar  
to remove the chas

### SPECIAL ADJUST

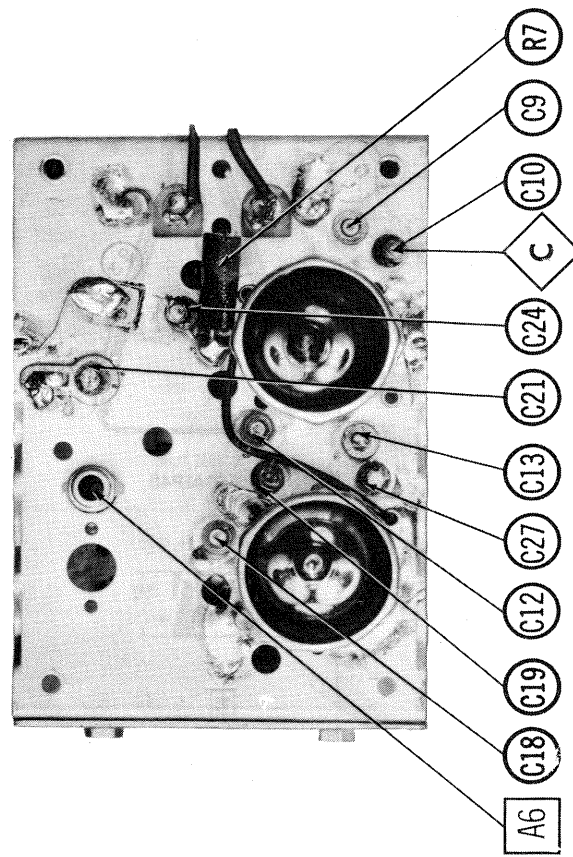
#### A. Focus

Adjust the Ion trap  
mum brightness.

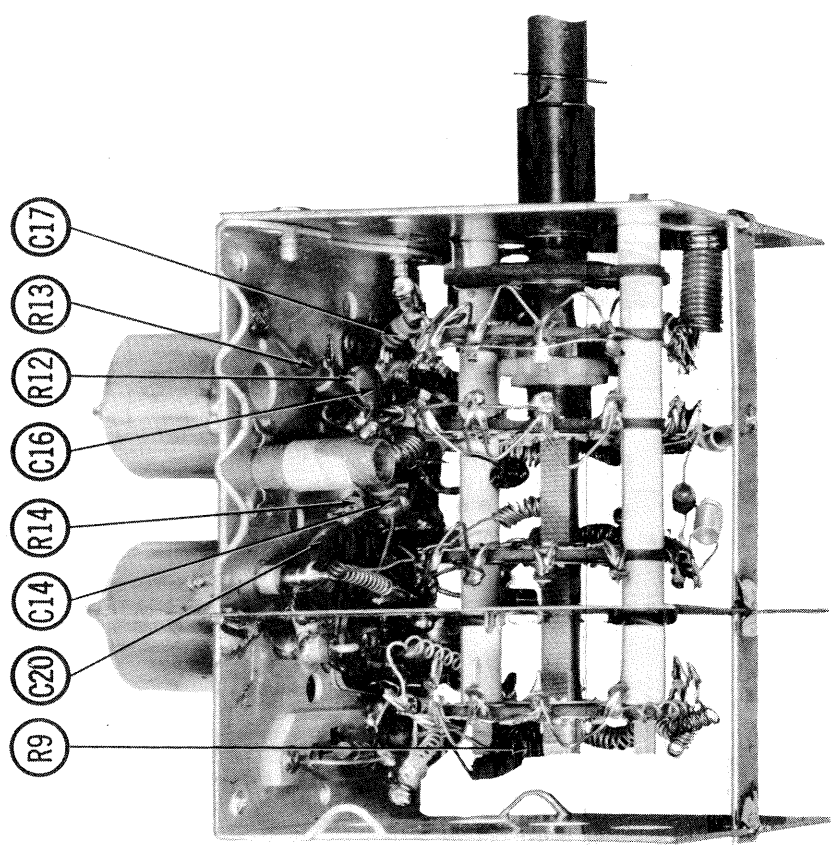
#### B. Sync Control

1. Tune in the stro
2. Adjust the sync  
position, counte
3. Check all other

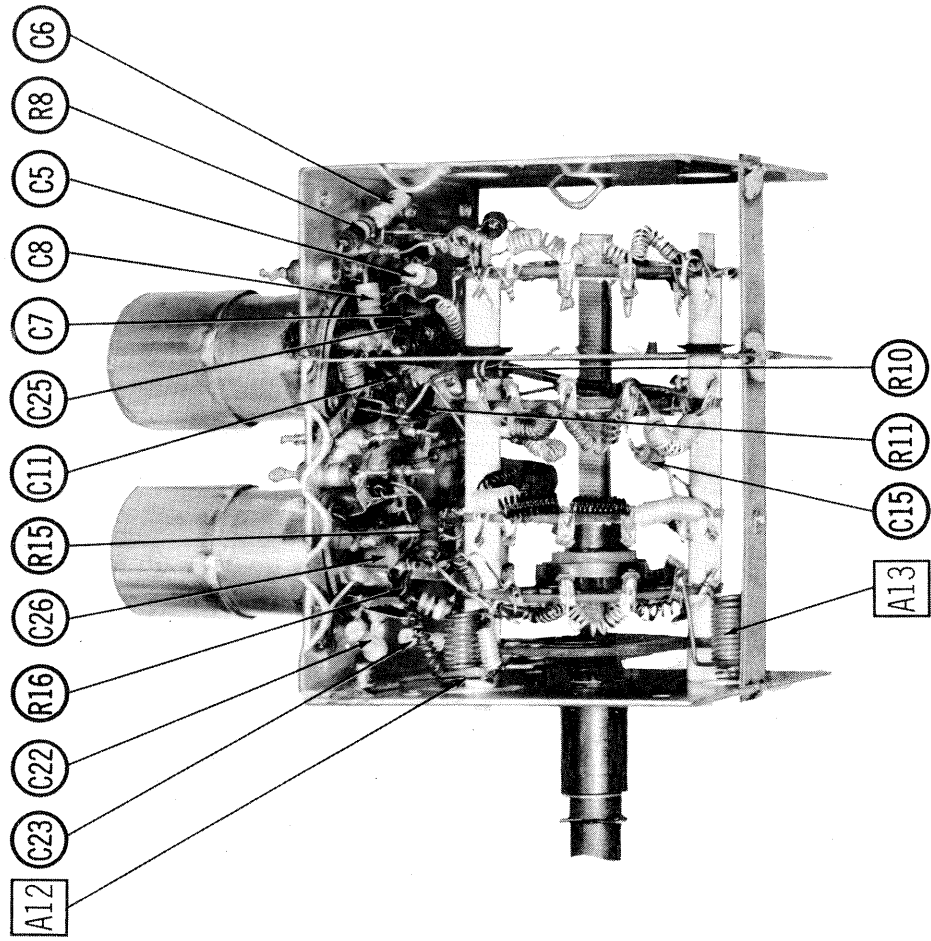
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case a recommendation, w  
as to the quality and suitab  
parts have been compiled f  
Inc., by the manufacturers  
"Reproduction or use, with  
G969



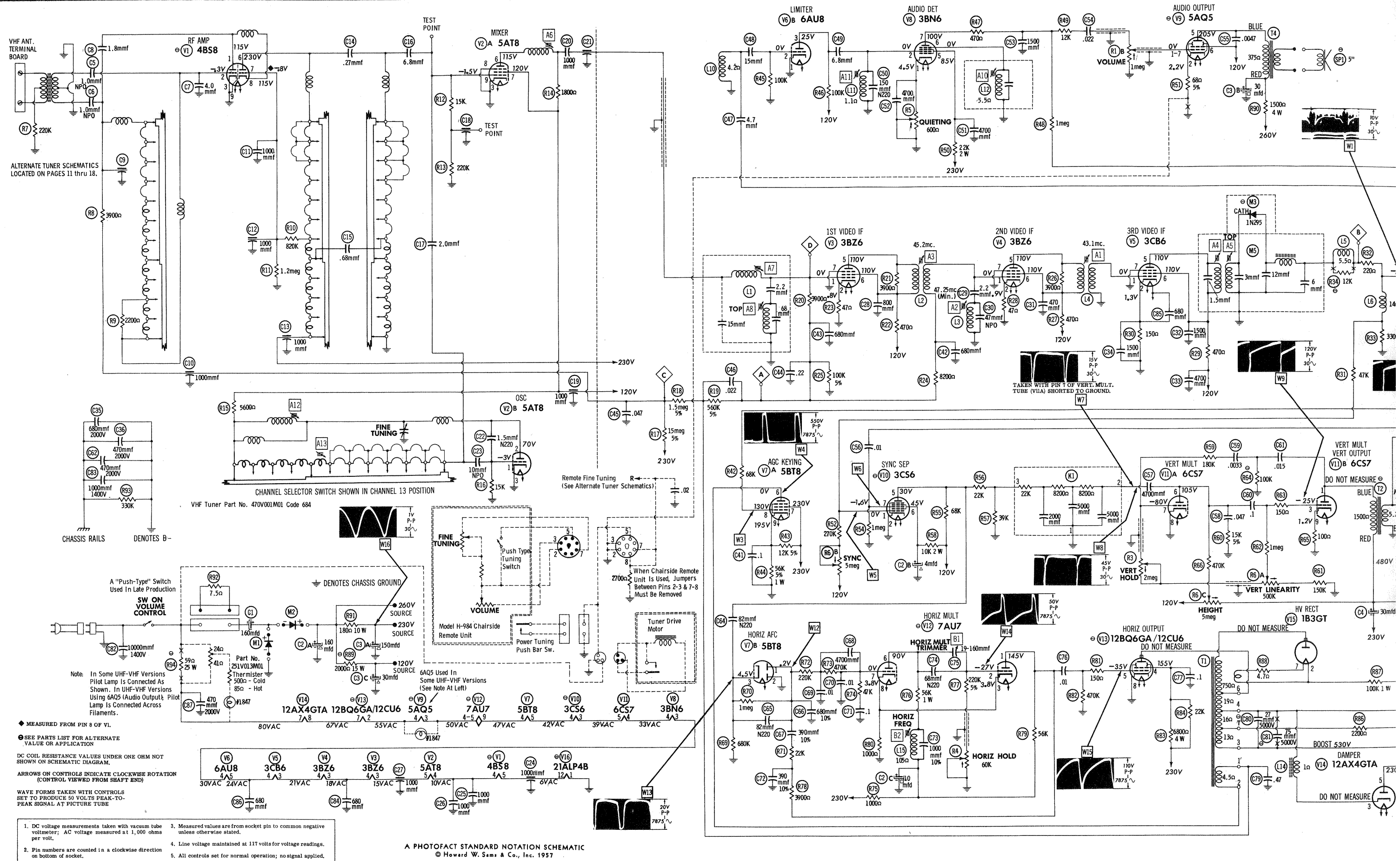
RF TUNER-TOP VIEW



RF TUNER-LEFT SIDE



RF TUNER-RIGHT SIDE



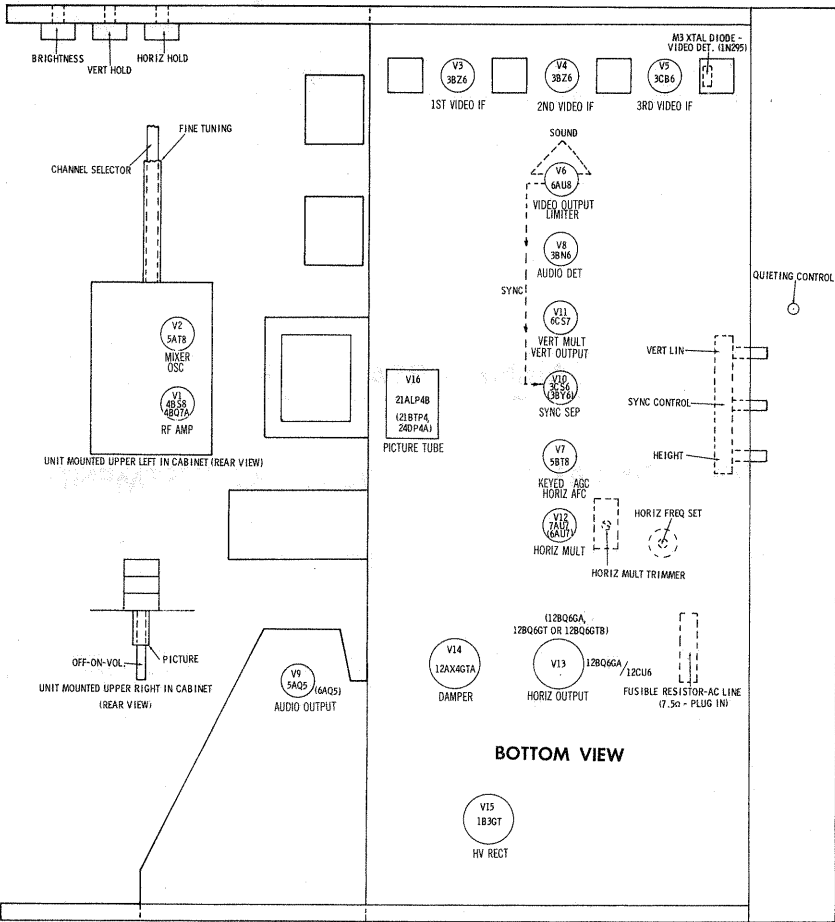




RESISTANCE MEASUREMENTS

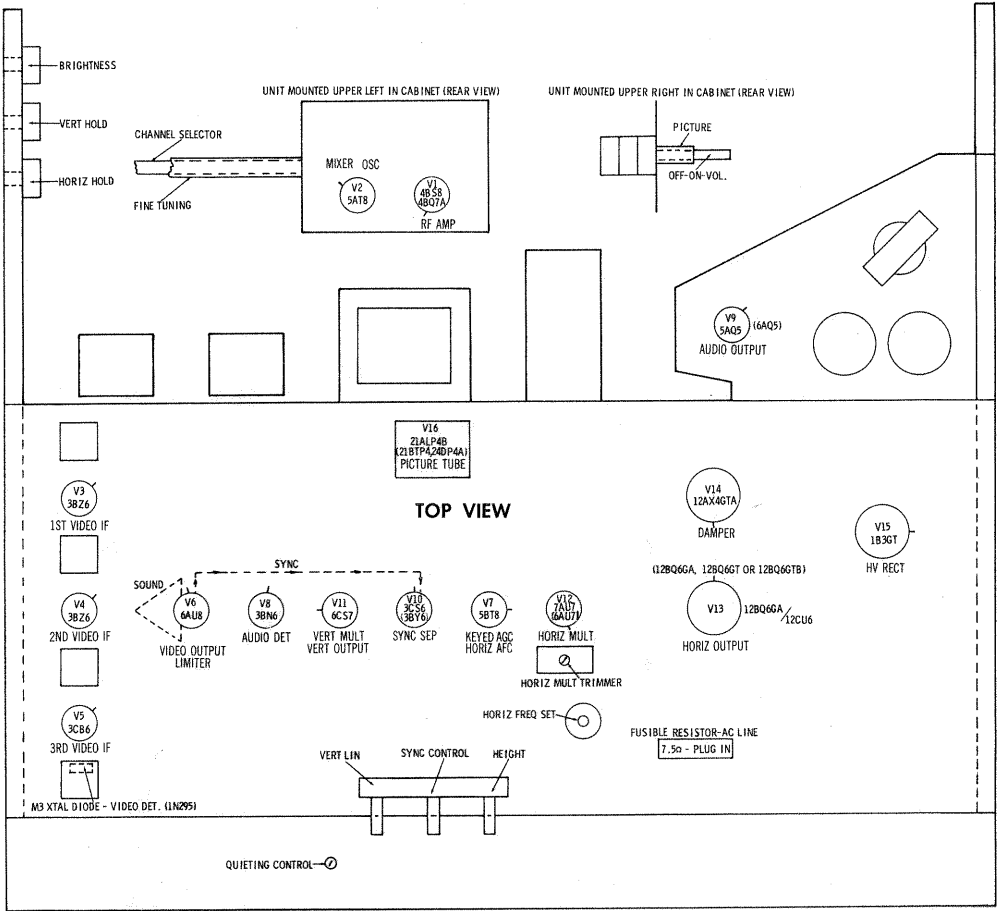
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	4BS8	INF	2Meg	0Ω	2.5Ω	1.5Ω	†180Ω	450K	INF	0Ω
V2	5AT8	15K	†7300Ω	0Ω	2.5Ω	3.5Ω	†3900Ω	†2000Ω	0Ω	235K
V3	3BZ6	100K	47Ω	3.5Ω	4.2Ω	†2470Ω	†2470Ω	0Ω		
V4	3BZ6	100K	47Ω	4.2Ω	5Ω	†2470Ω	†2470Ω	0Ω		
V5	3CB6	.1Ω	150Ω	5Ω	6Ω	†2470Ω	†2470Ω	0Ω		
V6	6AU8	0Ω	100K	†100K	7Ω	6Ω	0Ω	3300Ω	†9000Ω	†5000Ω
V7	5BT8	1.7Meg	0Ω	680K	11Ω	10Ω	650K	†180Ω	†70K	56K
V8	3BN6	•500Ω	1.1Ω	†7Ω	8Ω	†22K	5.5Ω	†1Meg		
V9	5AQ5	1Meg	68Ω	12.5Ω	13.5Ω	†1900Ω	†2000Ω	1Meg		
V10	3CS6	50K	0Ω	9.5Ω	10Ω	†35K	†12K	1Meg		
V11	6CS7	†4800Ω	NC	•1.4Meg	8Ω	9.5Ω	•†1.5Meg	•1.5Meg	0Ω	100Ω
V12	7AU7	†56K	•230K	1000Ω	12.5Ω	12.5Ω	†56K	2.4Meg	1000Ω	11Ω
V13	12BQ6GA	TP	13.5Ω	NC	†5000Ω	470K	NC	16Ω	0Ω	TOP CAP †20Ω
V14	12AX4GTA	NC	NC	350K	NC	†180Ω	NC	18Ω	16Ω	
V15	1B3GT		PINS	1 THRU 8	HAVE	INFINITE	RESISTANCE			TOP CAP †770Ω
V16	21ALP4B	0Ω	150K	Pin 6 †2000Ω	Pin 10 †1Meg	Pin 11 •160K	Pin 12 1.5Ω			

† MEASURED FROM OUTPUT OF M1.  
† MEASURED FROM PIN 3 OF V14.  
• THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.  
NC NO CONNECTION  
TP TIE POINT



TUBE PLACEMENT CHART

TUBE PLACEMENT CHART



TUBE FAILURE CHECK CHART

The following chart lists tubes whose failures are most likely to produce the indicated symptoms. Refer to tube placement chart for location and type of tube.

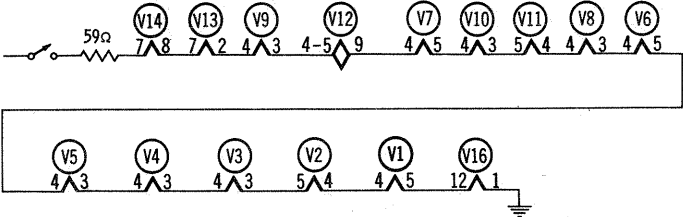
**POWER SUPPLY FAILURE**  
No raster, no sound - Fusible Resistor (R92), Rectifier (M1, M2)

**LOSS OF PICTURE OR SOUND**  
No pic, no sound, has raster - V3, V4, V5, Diode (M3), V6, V7  
No pic, no sound, has snow - V1, V2, V3  
No pic, has sound, has raster - V6, V16  
Has pic, no sound - V6, V8, V9  
Overloaded picture - V7

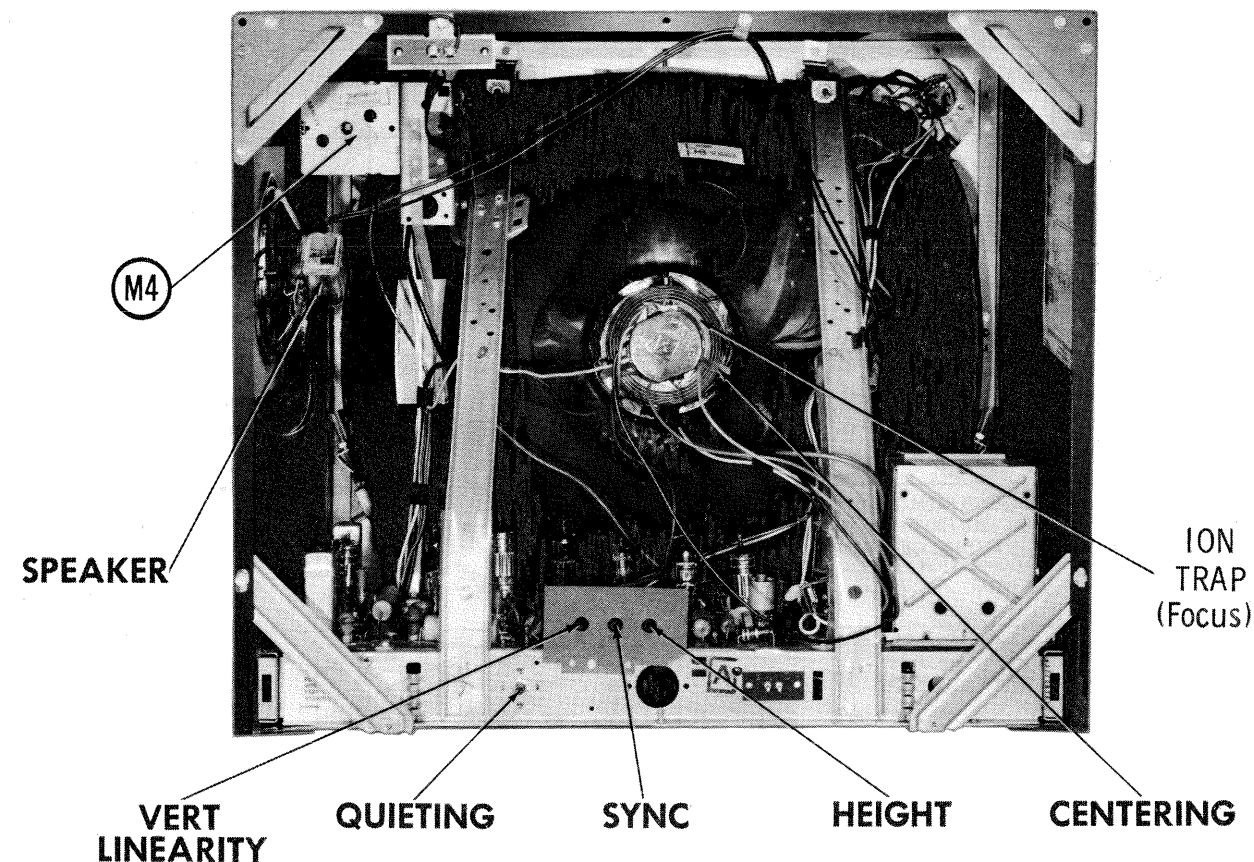
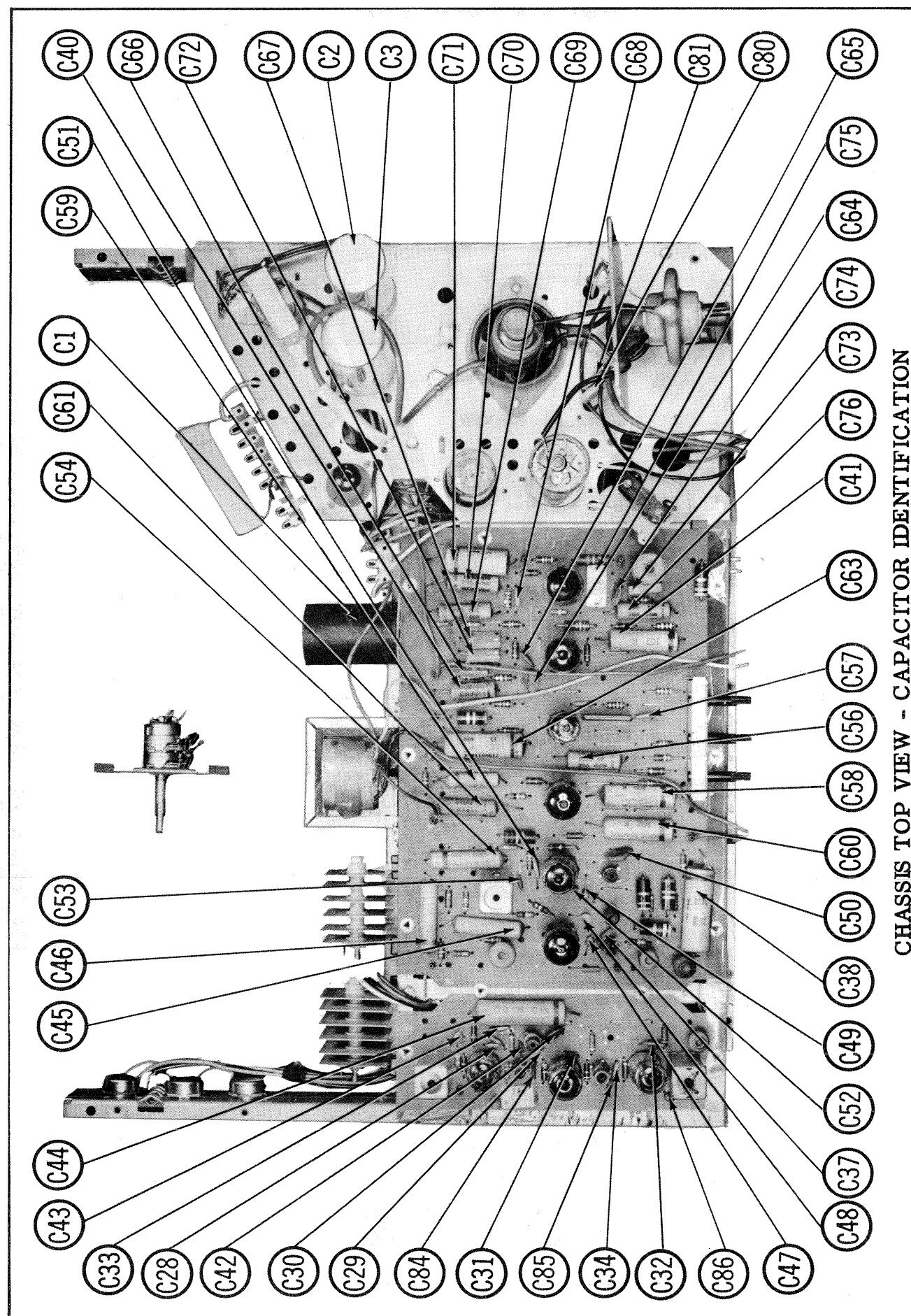
**SYNC FAILURE**  
No vert. sync - V10,  
No horiz. sync - V10, V7  
No vert. or horiz. sync - V10

**SWEEP FAILURE**  
No raster, has sound - V7, V12, V13, V14, V15, V16  
No vertical deflection - V11  
Poor vert. linearity or foldover - V11  
Poor horiz. linearity or foldover - V12, V13, V14  
Narrow picture - V12, V13, V14, M1, M2  
Vert. off freq. - V11  
Horiz. off freq. - V7, V12

This receiver employs tubes used in a series filament network, an open filament in any tube in the series will cause the set to be inoperative. (See circuit below.)



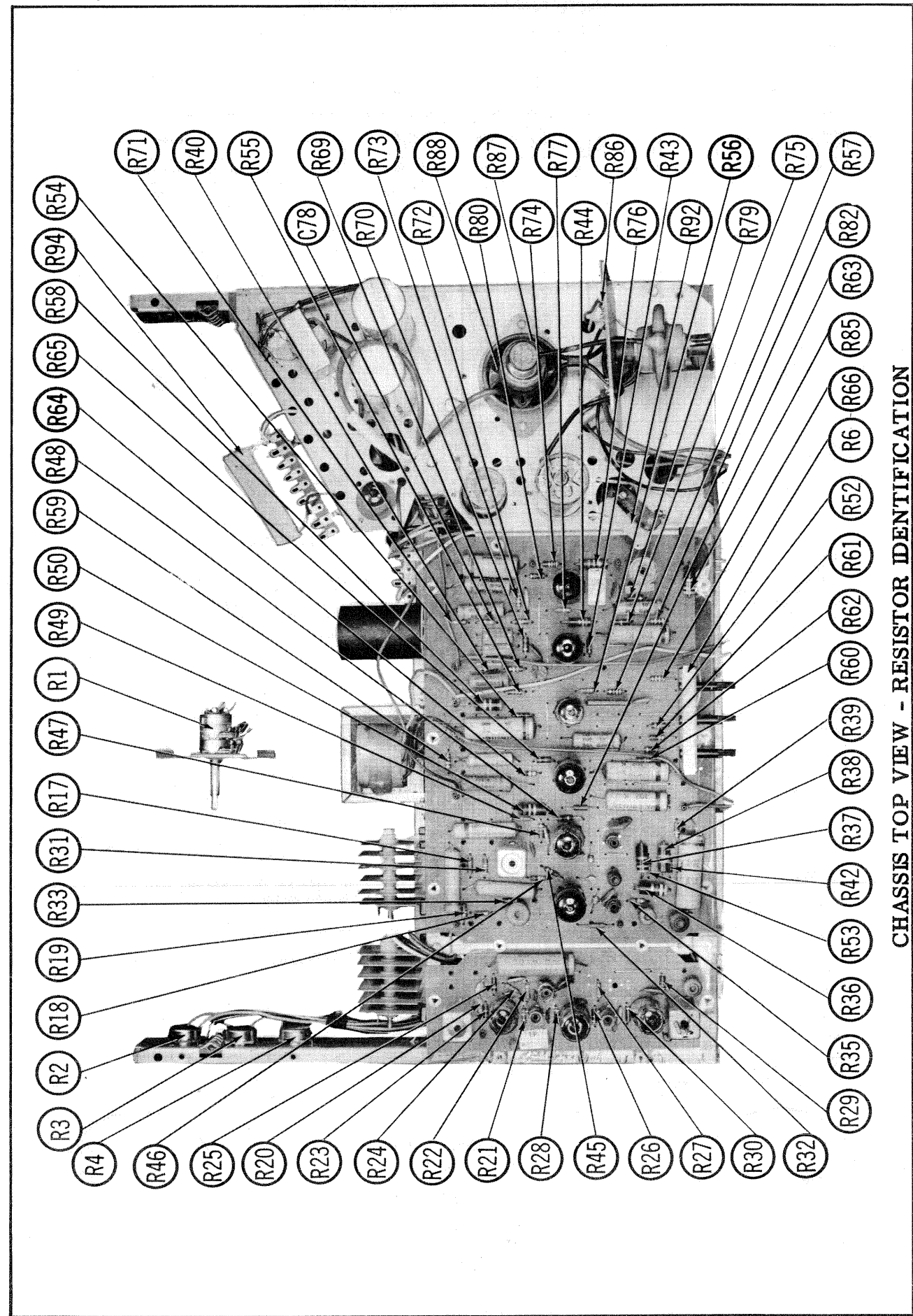
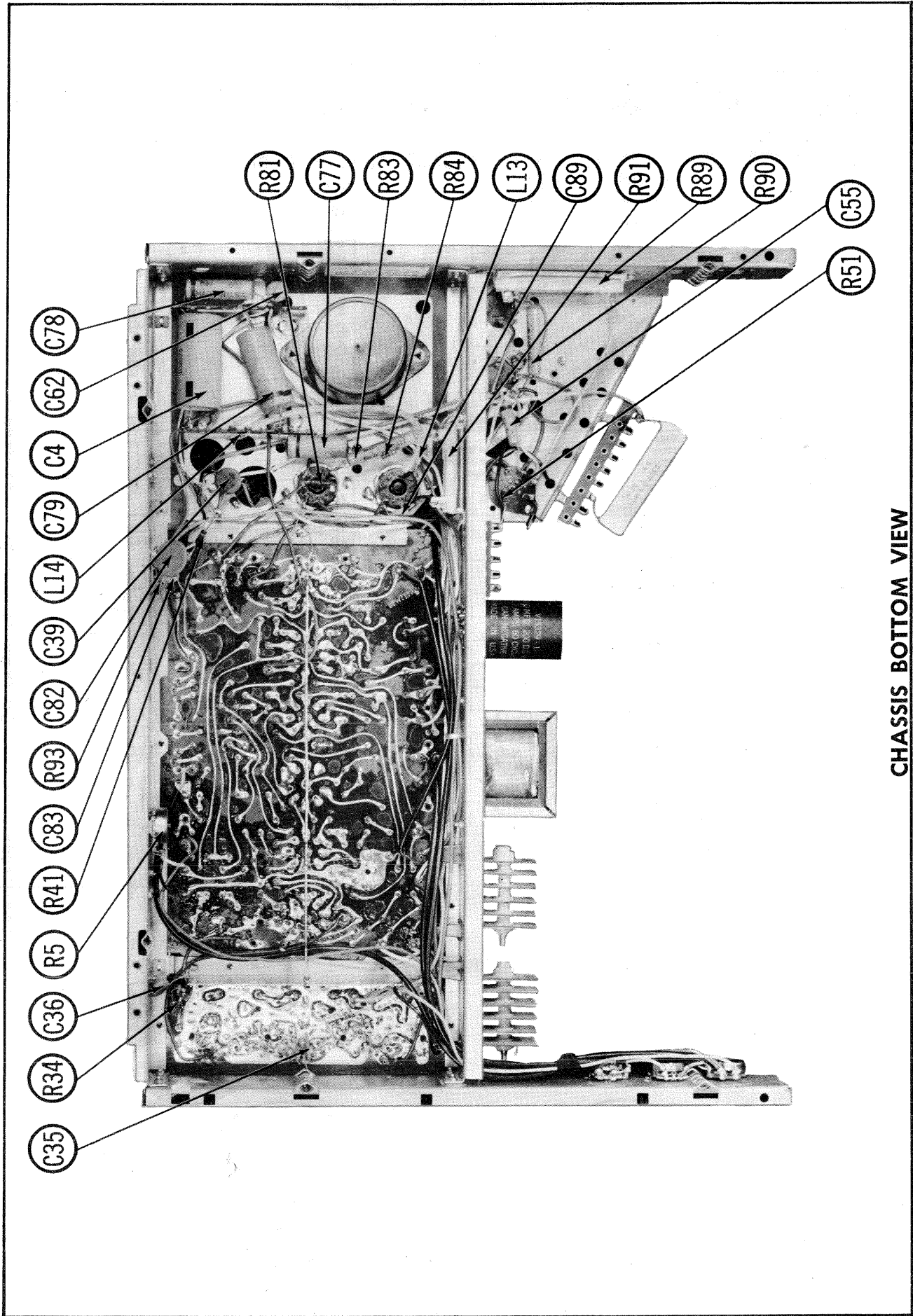
WESTINGHOUSE CHASSIS V-2346, -21, -25, -26, -27, -29, -41, -45, -47, -61, -65, -67, -68, V-2347, -27, -29, -2356-204, -205, -405, -406, -605, -606, V-2357, -205



WESTINGHOUSE CHASSIS V-2346, -21, -25, -26, -27, -29, -41, -45, -47, -61, -65, -67, -68, V-2347, -27, -29, V-2356-204, -205, -405, -406, -605, -606, V-2357, -205

## HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

1. Connect a short clip lead across the horizontal frequency coil (L15). This can be done on top of the chassis.
2. Set the horizontal hold control (R4) to the middle of its range and leave it in this position through the following steps.
3. Connect the DC probe of the VTVM to pin 7 (grid) of the horizontal multi-vibrator (V12) and the common lead to B-.
4. With the receiver tuned to a TV station, adjust the horizontal mult. trimmer (B1) for zero reading on the VTVM. If zero can be approached but not quite reached on the extreme of B1, it may be necessary to set the horizontal hold control SLIGHTLY to one side of mid-range to obtain zero reading on the VTVM.
5. Remove the clip lead from across L15.
6. Adjust the frequency coil slug (B2) for zero reading on the meter and check the adjustment by switching off channel and back again. The receiver should pull into horizontal synchronization on all channels. If not, repeat adjustments.



WESTINGHOUSE CHASSIS V-2346, -21, -25, -26, -27, -29, -41, -45, -47, -61, -65, -67, -68, V-2347, -27, -29, V-2356-204, -205, -405, -406, -605, -606, V-2357, -205



## ALIGNMENT INSTRUCTIONS

### ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

USE AN ISOLATION TRANSFORMER TO PROTECT THE TEST EQUIPMENT.  
The high voltage lead should be securely taped and kept away from the chassis.

#### VIDEO IF ALIGNMENT

Connect the negative lead of a 3 volt bias supply to point  $\diamond$ . Positive to B-. Connect negative lead of 1.5 volt bias supply to point  $\diamond$ . Positive to B-. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .001MFD	High side to point $\diamond$ . Low side to B-.	Not used	43.1MC	Any non-interfering channel	USE VTVM. DC probe to point $\diamond$ . Common to B-.	A1	Keep the generator output adjusted to provide a constant 1 volt output on VTVM. Adjust A1 for maximum deflection.
2. "	"	"	47.25MC	"	"	A2	Adjust for MINIMUM deflection.
3. "	"	"	45.2MC	"	"	A3	Adjust for maximum deflection.
4. "	"	44MC (10MC Swp)	42.25MC	"	Vert. Amp. thru 47K to point $\diamond$ . Low side to B-.	A4, A5	Use only enough sweep generator output to provide usable pattern on scope. Adjust A4 for maximum amplitude of response curve similar to Fig. 1. Adjust A5 for correct tilt. If necessary, retouch A1 thru A5 for correct position of markers as in Fig. 1.
5. Fig. 2	Across antenna terminals thru matching network (Fig. 2).	213MC (10MC Swp)	211.25MC 215.75MC	13	"	A6, A7, A8	Adjust A6 and A7 for maximum amplitude and correct position of 211.25MC marker (at 50%). Adjust A8 to place 215.75MC marker in trap notch. (See Fig. 3). Recheck adjustment of A7.

#### 4.5MC TRAP ALIGNMENT

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
6. .001MFD	High side to point $\diamond$ . Low side to chassis.	4.5MC (Unmod)	Any unused channel	DC probe thru detector (Fig. 4) to pin 11 (cathode) of picture tube. Common to B-.	A9	Use high generator output and adjust A9 for MINIMUM deflection.

#### SOUND IF ALIGNMENT USING ON THE AIR SIGNAL

1. Tune in a TV station and connect an attenuator between the antenna and receiver terminals so that the signal may be varied from strong to weak.
2. Set the quieting control (R5A) located on the back of the chassis at mid-range.
3. Apply a strong signal to the receiver and adjust A10 for maximum sound output. If peak appears at two different positions that are widely separated, use the one with the slug farthest counter clockwise. If two peaks occur within a narrow range of adjustment, sufficient signal is not being applied to the receiver and must be increased or the quieting control is not set at the desired position.
4. Adjust A11 for maximum sound output. If peaks occur at two different points of adjustment, use the one with the slug farthest counter clockwise. Reduce the signal to its lowest usable level and recheck adjustments.
5. Reduce the signal input to the receiver until noise can be heard and adjust the quieting control (R5A) for MINIMUM noise and hiss. It is imperative that the weakest available signal be used for this adjustment.
6. Do not leave the quieting control at maximum counter clockwise rotation.

#### SOUND IF ALIGNMENT USING TEST EQUIPMENT

Preset the quieting control (R5A) at mid-range position.  
The marker generator is used in this procedure as an AM signal generator.  
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
7. .01MFD	High side of sweep generator and marker generator to point $\diamond$ . Low side to chassis.	4.5MC (15KC Swp)	4.5MC (400v 30% AM Mod)	Any unused channel	Across volume control.	A9, A10, A11	Increase marker generator output until the base line is modulated with 400v AM. Adjust A10 for MINIMUM AM base line modulation. Reduce the AM signal and repeat adjustment of A10 until base line is flat when A10 is tuned exactly to 4.5MC. Adjust A11 for symmetrical curve similar to Fig. 5. Adjust A9 for maximum amplitude of curve. Recheck adjustment of A10.

#### OSCILLATOR ALIGNMENT FOR TUNERS 470V001M01 Code 684, 470V003M01, 470V008M03, 475V001M01, 475V007M03 AND 475V007M01

1. Switch to the highest high band channel (7-13) operating in the area and set the fine tuning to mid-range position.
2. Using a non-metallic alignment tool, adjust the high band oscillator slug (A12) for best picture detail and sound quality.
3. Switch to the highest low band channel (2-6) operating in the area.
4. Adjust the low band oscillator slug (A13) for best picture detail and sound quality. Check the previously made adjustment and if the tuning has changed, repeat the above adjustments.

#### OSCILLATOR ALIGNMENT FOR TUNERS 470V001M01 Code 119 AND 470V005M01

1. Switch to the highest high band channel (7-13) operating in the area and set the fine tuning to the center of its range.
2. Adjust the high band oscillator slug (A14) for the best picture detail and sound quality.
3. Switch to channel 6 if it is operating in the area and adjust the channel 6 oscillator slug (A15) for best picture detail and sound quality.
4. Switch to channel 4 if operating in the area and adjust channel 4 oscillator slug (A16) for best picture detail and sound quality.
5. Switch to channel 2 if it is being used in the area and adjust channel 2 oscillator slug (A17) for best picture detail and sound quality.

#### ANTENNA TRAP ALIGNMENT

The antenna trap is adjustable over the IF range of the receiver and is preset to the factory at 44MC. A18 can be adjusted to minimize any interference in this range.

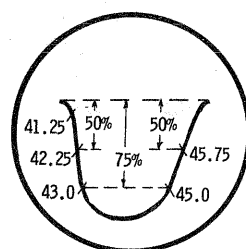
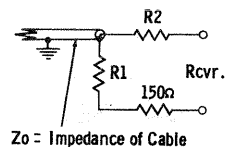


FIG. 1



Zo = Impedance of Cable

Zo	R1	R2
50Ω	56Ω	120Ω
75Ω	82Ω	110Ω

FIG. 2

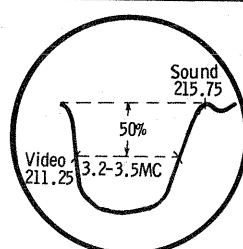


FIG. 3

## ALIGNMENT INSTRUCTIONS (cont)

### OSCILLATOR ALIGNMENT FOR TUNER #470V007M01

Connect bias as under "Video IF Alignment".  
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.  
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.  
Set the fine tuning control to the center of its range.  
Use only enough sweep generator output to provide usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
8. Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	213MC (10MC Swp)	211.25MC 215.75MC	13	Vert. Amp. thru 47K to point $\diamond$ . Low side to chassis.	A19	Adjust to place sound marker in trap notch as in Fig. 6. Video marker should fall at 50%.
		207MC (10MC Swp)	205.25MC 209.75MC	12		A20	
		201MC (10MC Swp)	199.25MC 203.75MC	11		A21	
		195MC (10MC Swp)	193.25MC 197.75MC	10		A22	
		189MC (10MC Swp)	187.25MC 191.75MC	9		A23	
		183MC (10MC Swp)	181.25MC 185.75MC	8		A24	
		177MC (10MC Swp)	175.25MC 179.75MC	7		A25	
		171MC (10MC Swp)	169.25MC 173.75MC	6		A26	
		165MC (10MC Swp)	163.25MC 167.75MC	5		A27	
		159MC (10MC Swp)	157.25MC 161.75MC	4		A28	
		153MC (10MC Swp)	151.25MC 155.75MC	3		A29	
		147MC (10MC Swp)	145.25MC 149.75MC	2		A30	

#### RF AND MIXER ALIGNMENT FOR TUNER #470V007M01

Connect bias as under "Video IF Alignment".  
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.  
The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.  
Use only enough sweep generator output to provide usable pattern on scope.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
9. Two 120Ω Carbon Resistors	Across antenna terminals with 120Ω in each lead.	207MC (10MC Swp)	205.25MC 209.75MC	12	Vert. Amp. thru 10K to point $\diamond$ . Low side to chassis.	A31, A32, A33	Adjust for response curve similar to Fig. 7 with markers above 90%.
10. "	"	213MC (10MC Swp)	211.25MC 215.75MC	13	"		Check for response similar to Fig. 7. If markers fall below 70% on any channel make compromise adjustments of A31, A32 and A33 with channel switch set to that channel. Check all other channels to see that they have not been seriously affected.
		201MC (10MC Swp)	199.25MC 203.75MC	11			
		195MC (10MC Swp)	193.25MC 197.75MC	10			
		189MC (10MC Swp)	187.25MC 191.75MC	9			
		183MC (10MC Swp)	181.25MC 185.75MC	8			
		177MC (10MC Swp)	175.25MC 179.75MC	7			
		171MC (10MC Swp)	169.25MC 173.75MC	6			
		165MC (10MC Swp)	163.25MC 167.75MC	5			
		159MC (10MC Swp)	157.25MC 161.75MC	4			
		153MC (10MC Swp)	151.25MC 155.75MC	3			
		147MC (10MC Swp)	145.25MC 149.75MC	2			

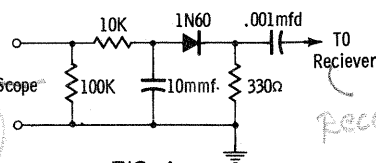


FIG. 4

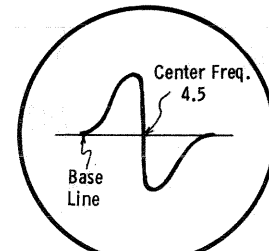


FIG. 5

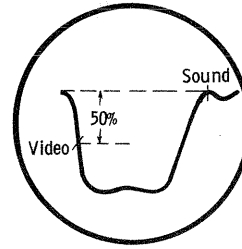


FIG. 6

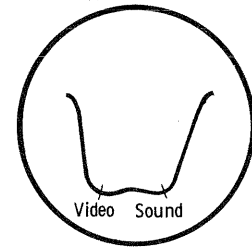
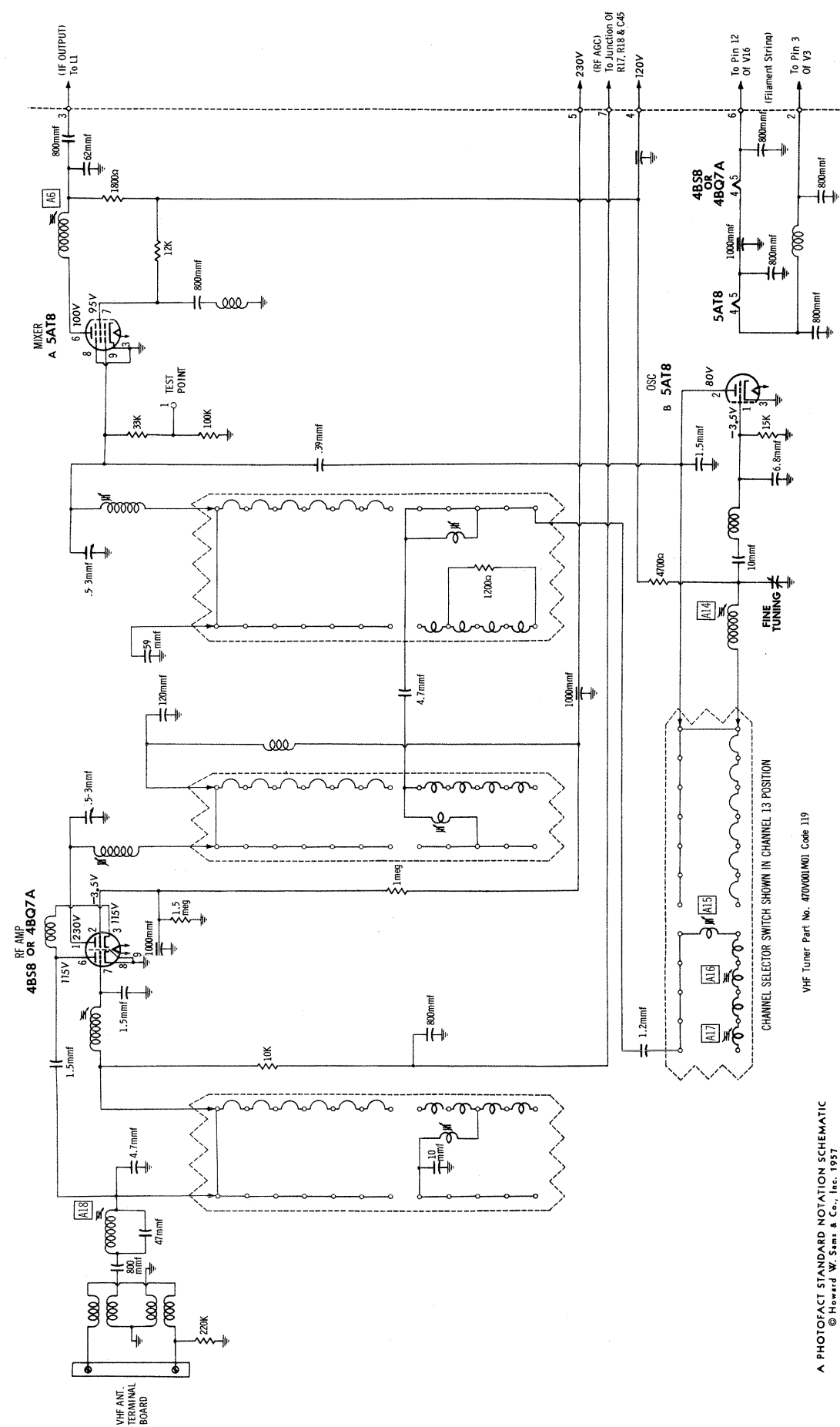


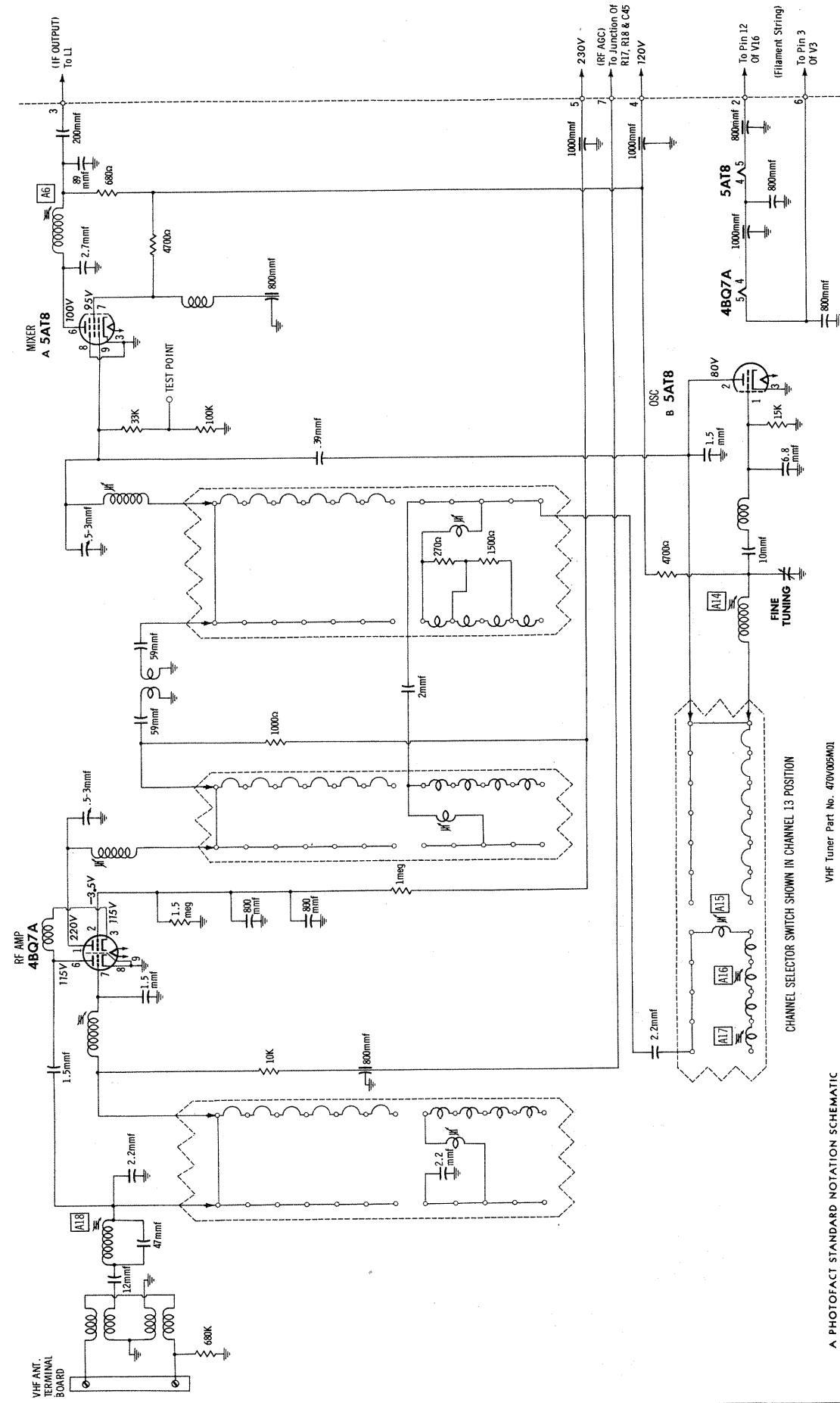
FIG. 7

WESTINGHOUSE CHASSIS V-2346, -21, -25, -26, -27, -29, -41, -45, -47, -61, -65, -67, -68, V-2347, -27, -29, V-2356-204, -205, -405, -406, -605, -606, V-2357, -205

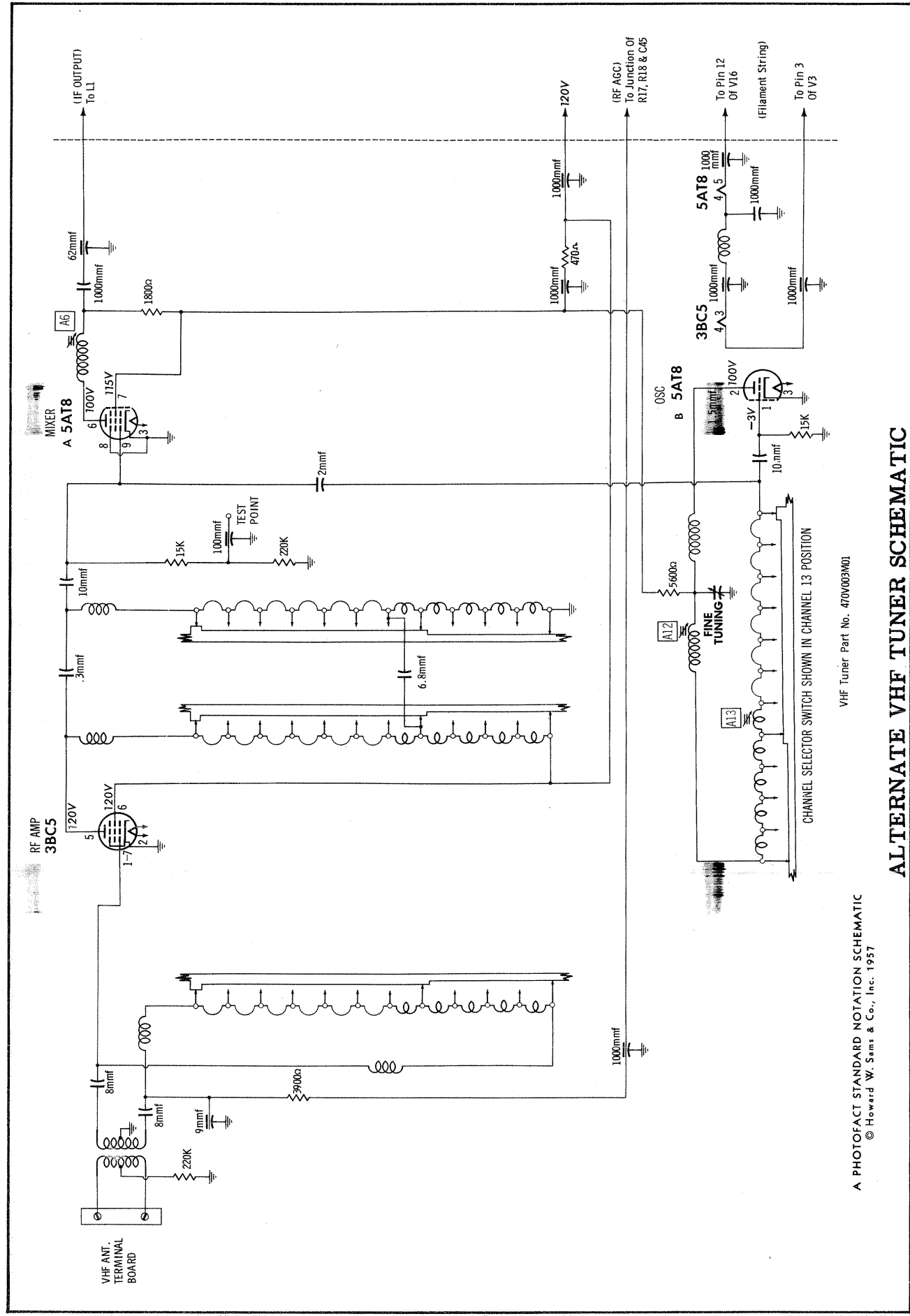
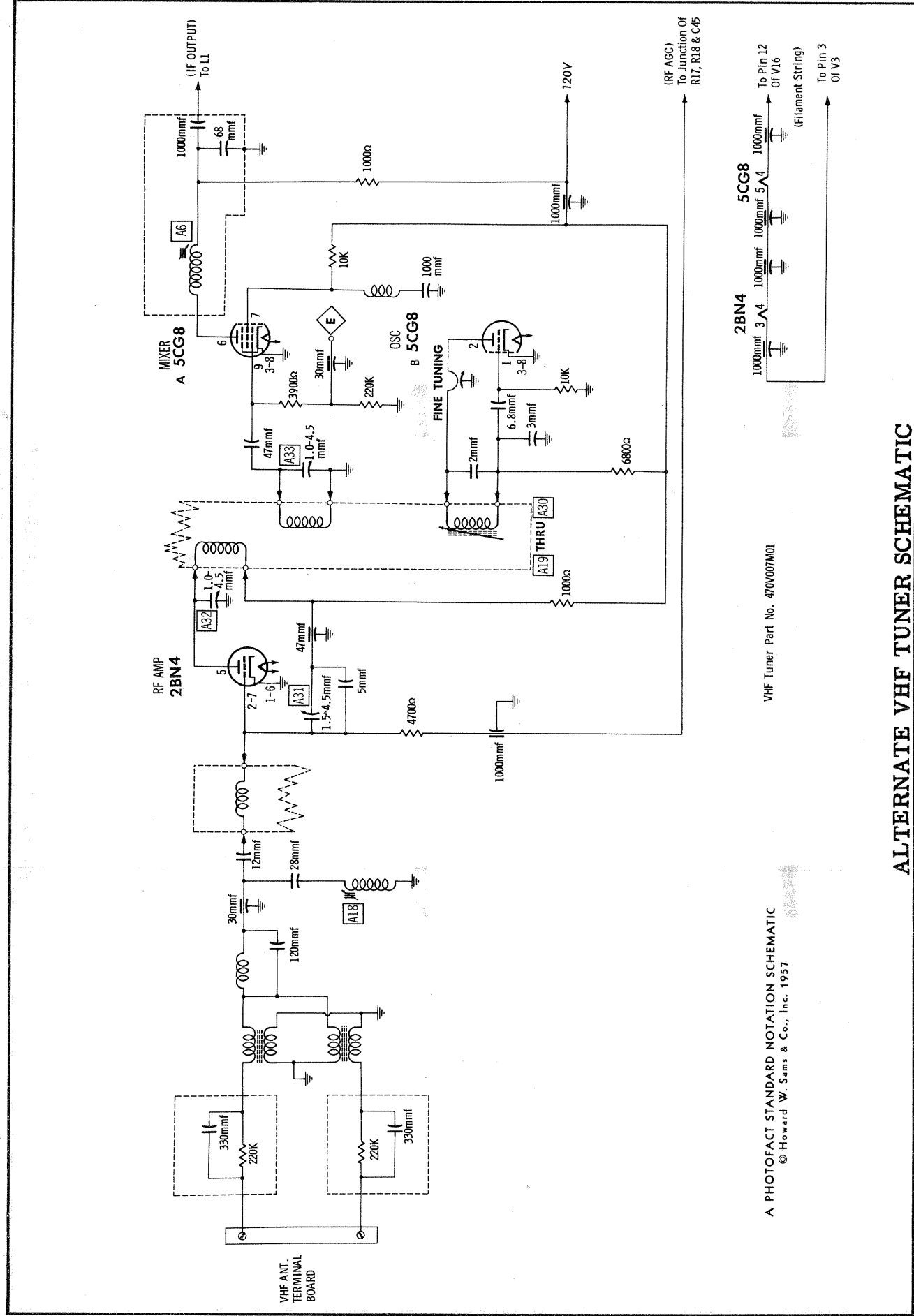




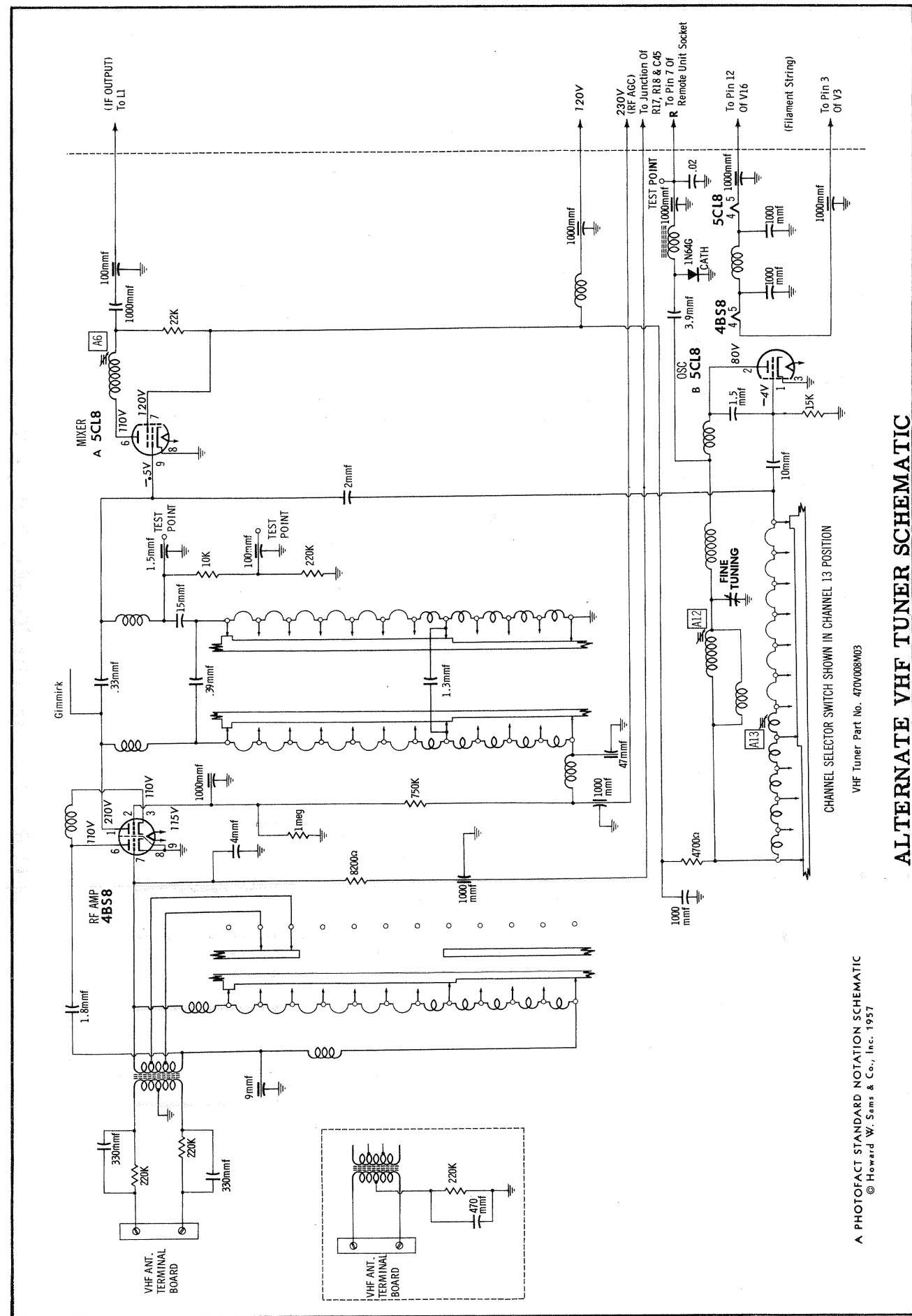
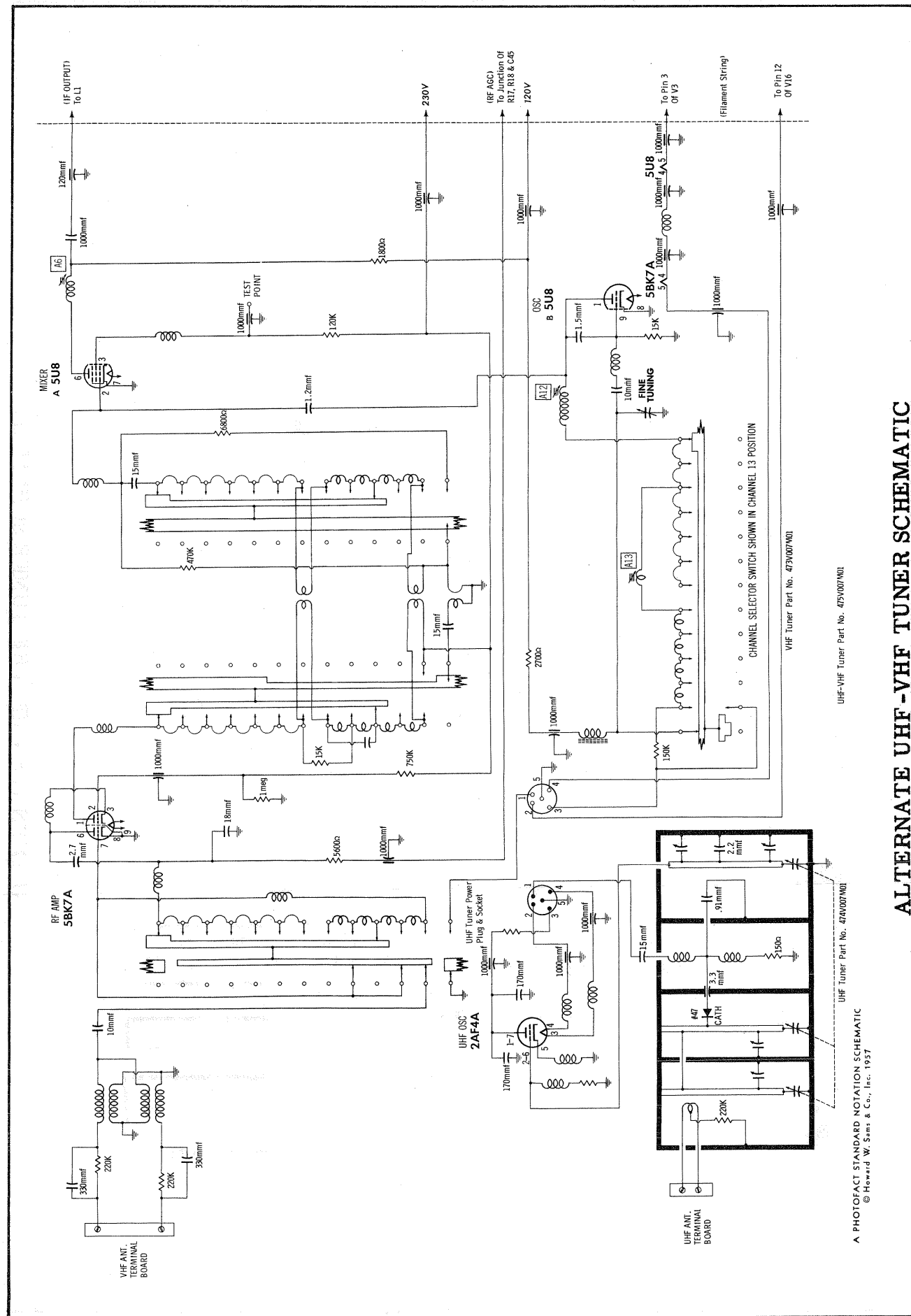
## ALTERNATE VHF TUNER SCHEMATIC



**ALTERNATE VHF TUNER SCHEMATIC**



WESTINGHOUSE CHASSIS V-2346, -21, -25, -26, -27, -29, -41, -45, -47, -61, -65, -67, -68, V-2347, -27, -29, V-2356-204, -205, -405, -406, -605, -606, V-2357, -205







PARTS LIST AND DESCRIPTIONS (Continued)

RECTIFIERS

ITEM No.	RATING CURRENT (Measured)	REPLACEMENT DATA						
		Westinghouse PART No.	FEDERAL PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	MALLORY PART No.	RADIO RECEPTOR PART No.	SARKES TARZIAN PART No.
M1	.280A	V-15920-2 ①	1387AP ①	1N007 ②	RS350SL ①	6S350 ①	6QA2 ①	350A ①
M2	.280A	V-15920-2 ①	1387AP ①	1N007 ②	RS350SL ①	6S350 ①	6QA2 ①	350A ①

① Selenium Type.      ② Germanium Type.

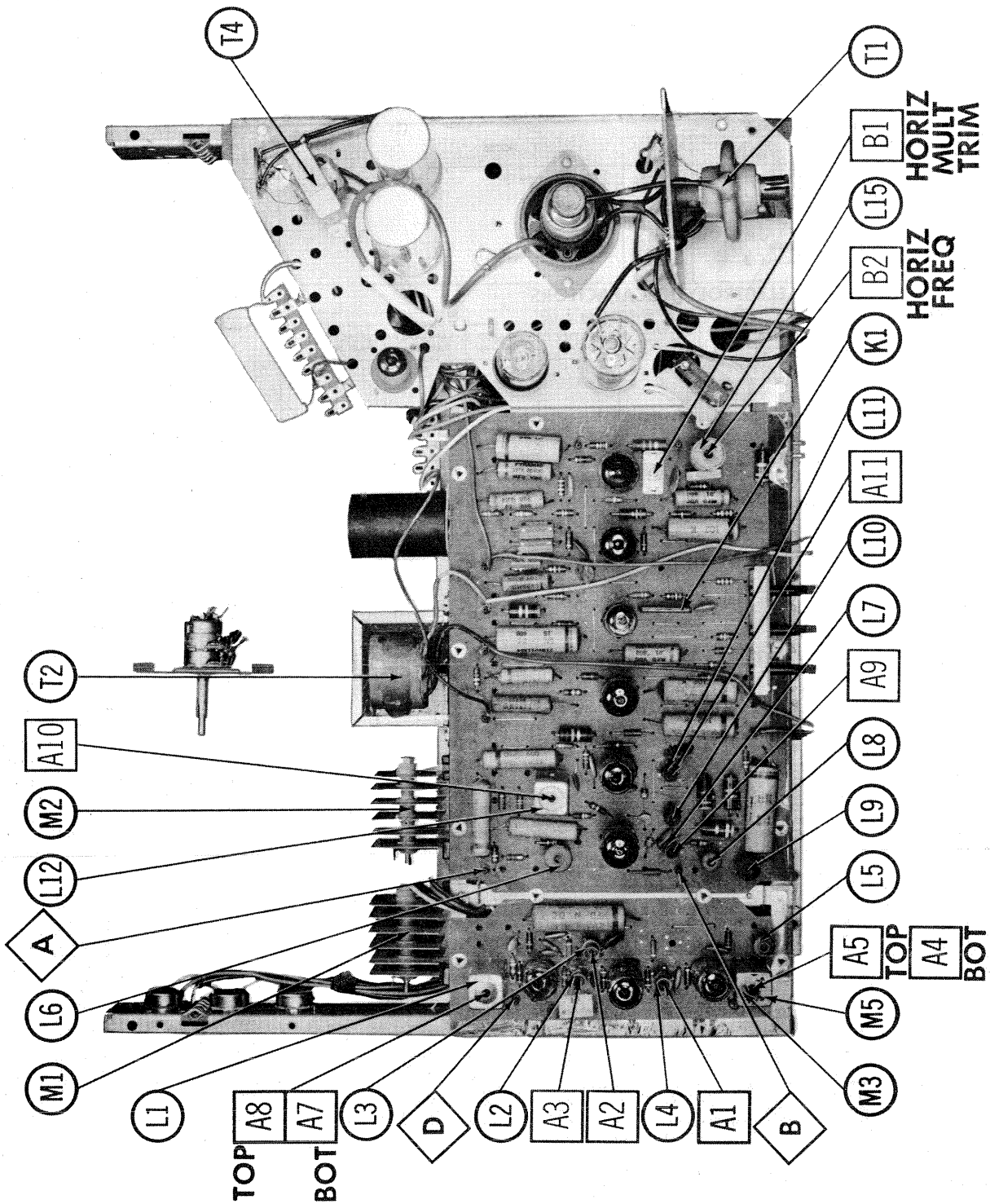
CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA		NOTES
		Westinghouse PART No.	SYLVANIA PART No.	
M3	*1N285	V10916-3	1N60	Video Detector (Pigtail)

\* Alternate types CK706A and 1N64 may be used in this application.

MISCELLANEOUS

ITEM No.	PART NAME	Westinghouse PART No.	NOTES
M4	Tuner	470V001M01	VHF, Code #684, Alternate Code #119.
	Tuner	470V008M03	VHF
	Tuner	470V003M01	VHF
	Tuner	470V005M01	VHF
	Tuner	470V007M01	VHF
	Tuner	475V007M03	UHF/VHF, Consists of UHF Tuner Part #474V007M01 and VHF Tuner Part #473V007M01.
	Tuner	475V001M01	UHF/VHF, Consists of UHF Tuner Part #474V001M01 and VHF Tuner Part #473V001M01.
	Tuner	475V007M01	UHF/VHF, Consists of UHF Tuner Part #474V007M01 and VHF Tuner Part #473V007M01.
M5	Crystal Det. Ass'y.	235V005M01	Includes 4th Video IF, Caps., Series Peaking Coil and M3.
M6	Centering Device	V15966-1	Includes Yoke Cover.
M7	Ion Trap	757V501A04	
	Yoke Clamp	768V014M01	
	Printed Board	350V010M01	
	Printed Board	350V011M01	
	Safety Glass	630V002M01	
	Safety Glass	630V001M01	
	Safety Glass	630V004M01	
	Safety Glass	630V004M01	
	Knob	550V003M03	
	Knob	550V003M05	
	Knob	550V002M01	
	Knob	V-15813-10	
	Knob	550V022M02	
	Knob	V-15667-1	
	Knob	550V021M01	
	Knob	V-15671-6	
	Knob	V-15671-7	
	Knob	550V020M01	
	Knob	V-15668-1	
	Knob	V-15812-6	
	Knob	550V034M01	
	Knob	550V002M01	
	Knob	550V002M02	
	Knob	550V002M04	
	Knob	550V002M03	
	Knob	V-15810-6	
	Knob	V-15671-6	
	Knob	V-15671-7	
	Knob	V-15810-7	
	Knob		



CHASSIS TOP VIEW - TRANS. INDUCTOR & ALIGNMENT IDENTIFICATION

WESTINGHOUSE CHASSIS V-2346, -21, -25, -26, -27, -29, -41, -45, -47, -61, -65, -67, -68, V-2347, -27, -29, V-2356-204, -205, -405, -406, -605, -606, V-2357, -205

## TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA							
		Westinghouse PART No.	Hallidorsen PART No.	Merit PART No.	RCA TYPE No.	Ram PART No.	Stancor PART No.	Thordarsen PART No.	Triad PART No.
T1 T2	Horiz. Output Trans. Vert. Output Trans.	493V003M03 430V005M02C 430V005M02 ①	Z1900 ② Z1900 ②					FLY-96*	A-109X A-109X
T3A B	Yoke (90° Horiz (20MH) Vert (40MH) Yoke Assembly	490V001M01  759V007M01①  V15996-1 ④ 768V014M01⑤	DF607⑥⑦	MDF-92⑥⑦	235D1⑥⑦	Y90F19/43 ⑥⑦	DY-16A⑥⑦	Y-16⑥⑦	Y-41 ⑦   YCI ④ CLI ⑤

### \* HORIZONTAL OUTPUT TRANSFORMER CONNECTION DATA

Use Original Width Coil Unless Replacement Type Is Listed

**SPEAKER**

	ORIGINAL TERMINAL CONNECTIONS	Halldorson Replacement Connections	Merit Replacement Connections	RCA Replacement Connections	Ram Replacement Connections	Stancor Replacement Connections	Thordarson Replacement Connections	Triad Replacement Connections
	6						6	
	4						4	
	T						T	
	3						3	
	2						2	
	1						1	

## COILS (RF-IF)

ITEM No.	IMPEDANCE	REPLACEMENT DATA						NOTES
		Westinghouse	Halldorson	Merit	Stancor	Thordarson	Triad	
		PART No.	PART No.	PART No.	PART No.	PART No.	PART No.	
T4	7000Ω 3-4Ω	430V026M01	Z1113	A-2931	A-3878	24S52	S-7X	

## COILS (RF-IF)

[illegible]

Note 1: Some versions may use a 82K resistor in this application.  
 Note 2: Some versions may use a 1800Ω 15W resistor in this application.  
 Note 3: In UHF receivers with pilot light, this is a 25 watt 2 section resistor.  
 One section 24Ω. one section 41Ω (Part #251V015M02).

Note 1: Some versions may use a 82K resistor in this application.  
 Note 2: Some versions may use a 1800Ω 15W resistor in this application.  
 Note 3: In UHF receivers with pilot light, this is a 25 watt 2 section resistor.  
 One section 24Ω, one section 41Ω (Part #251V015M02).

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	Westinghouse PART No.	REPLACEMENT DATA
K1	Vertical Intergrator	2000MMF, 5000MMF, 5000MMF, 22K, 8200Ω, 8200Ω	V15666-1	Aerovox Centralab Cornell Dubilier Erie Sorgue PA-110 PC-100 115TMI 1405-01

**WESTINGHOUSE CHASSIS V-2346, -21, -25, -26, -27,  
-29, -41, -45, -47, -61, -65, -67, -68, V-2347, -27, -29,  
V-2356-204, -205, -405, -406, -605, -606, V-2357, -205**