

CHASSIS  
V21-02AA

SERVICING IN THE FIELD

TUNER OSCILLATOR ADJUSTMENTS

Touch-up adjustments of the VHF tuner oscillator circuit may be accomplished by removing the channel selector and fine tuning knobs.

SERVICE ADJUSTMENT LOCATION

See tube placement chart on page 5.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENT

For adjustment of the horizontal oscillator it is necessary to remove the rear cover and supply power to the set. Set the horizontal hold control at its mid-range position and adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.

FOCUS

Focus may be varied by changing jumper on focus board. Adjust ion trap for best focus consistent with maximum brightness.

FUSES

One fuse is used for Horiz. Sweep Circuit protection. (For location see tube placement chart.)

CENTERING

Centering is accomplished mechanically by adjusting two magnetic rings around the neck of the picture tube, located flush against the deflection yoke. Rotate the two rings around the neck of the tube until the picture is properly centered.

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably with a test pattern. Set the horizontal hold control to its mid-range position.

Turn the horizontal frequency slug (B1) slowly clockwise while switching off and on channel until the picture just loses sync.

Turn B1 counter clockwise until the picture regains sync, then continue 1/2 turn in the same direction.

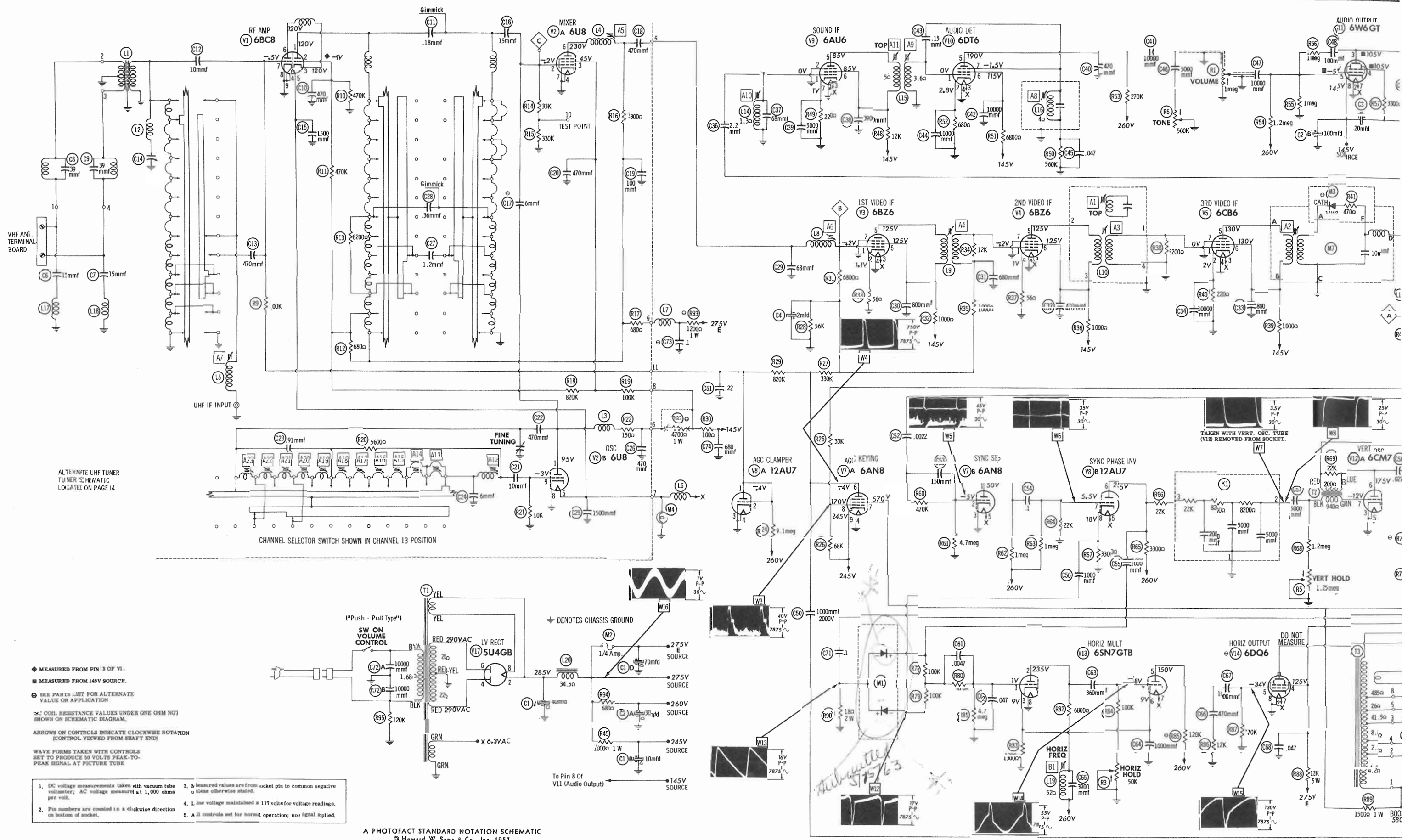
The picture should hold sync at both extreme ends of the horizontal hold control rotation.

If necessary, readjust B1 SLIGHTLY and test for sync or pull-in as above.

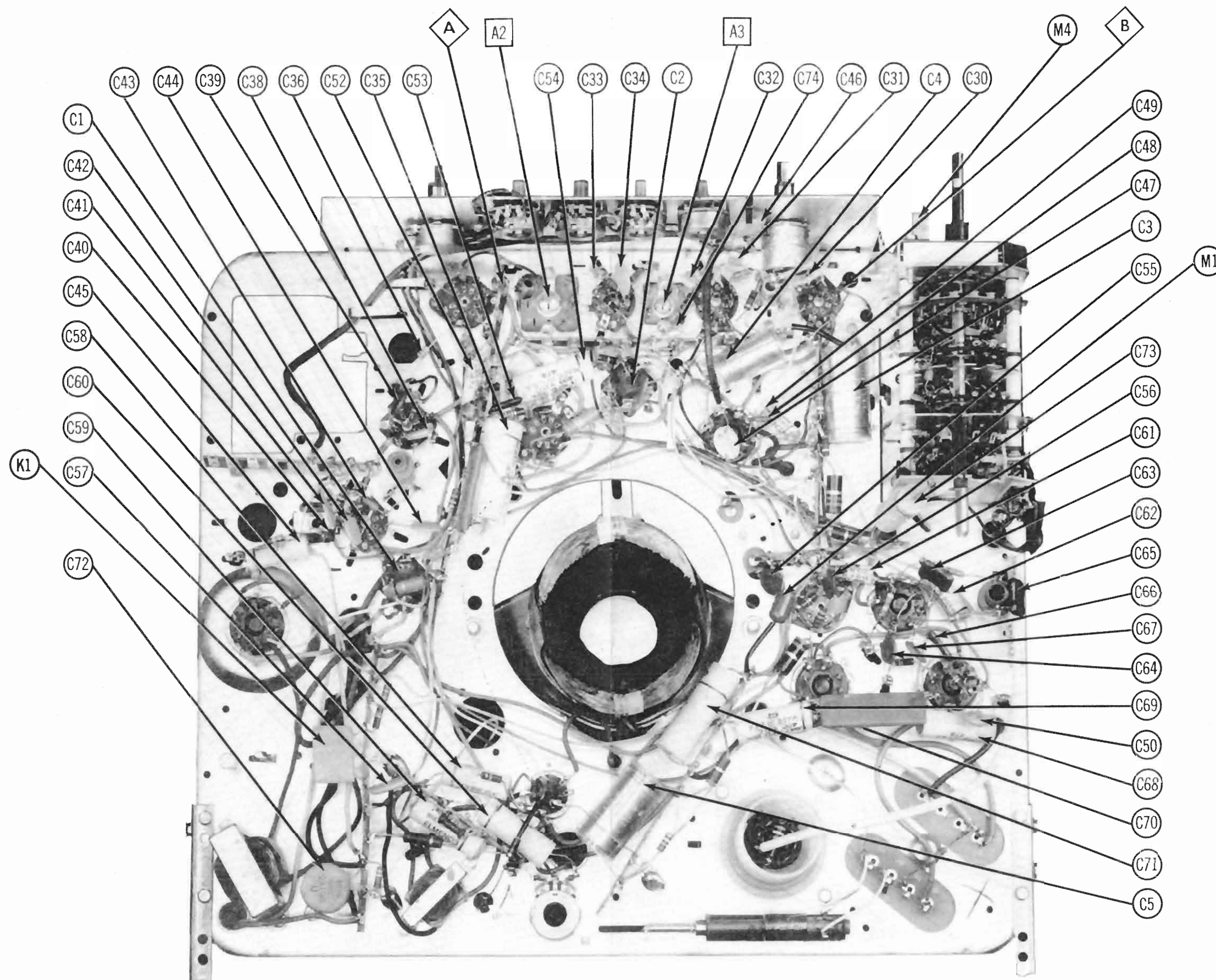
Adjust the width slug (B2) for a picture SLIGHTLY wider than necessary to fill the picture mask horizontally.

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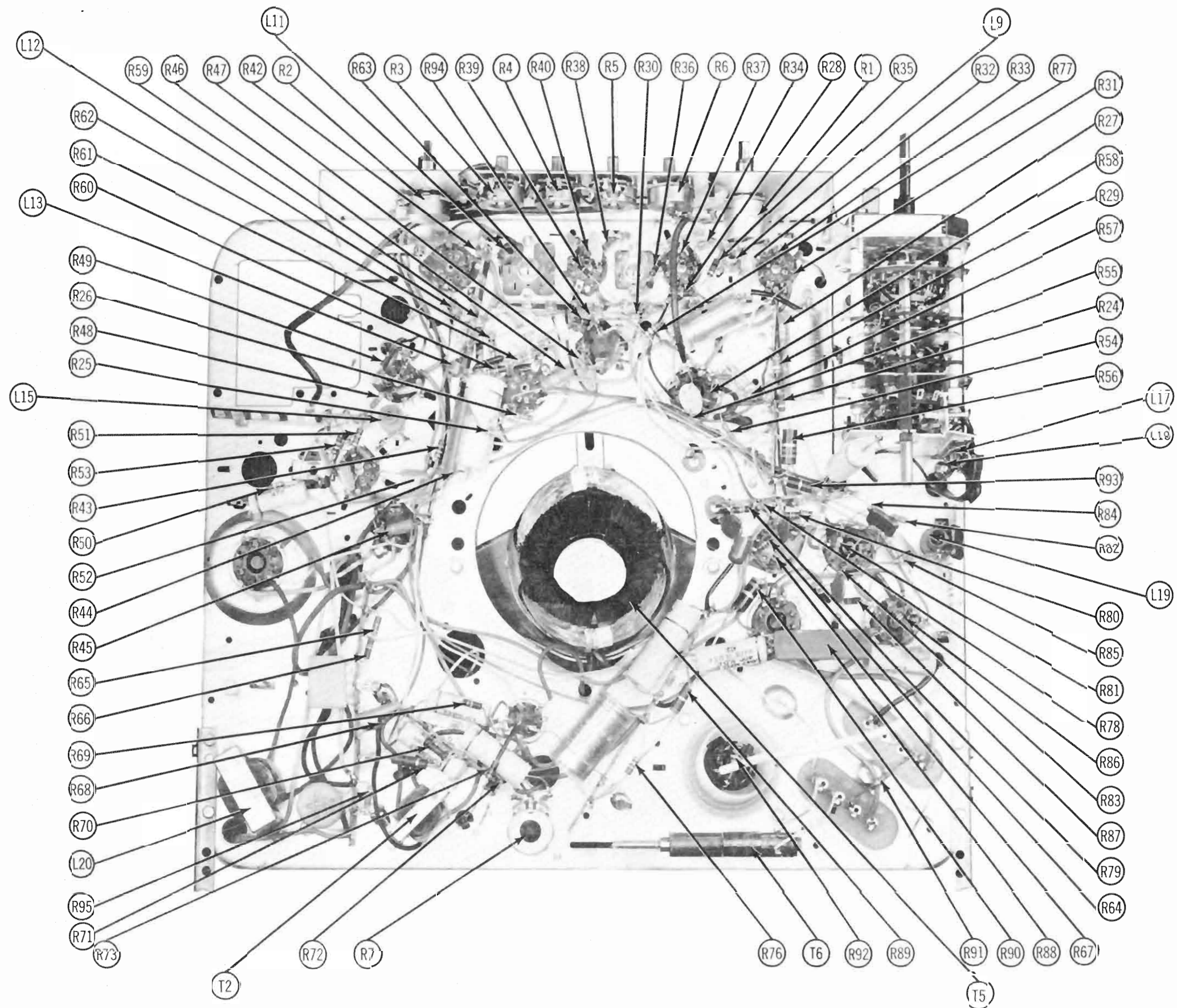




CHASSIS BOTTOM VIEW-CAPACITOR AND ALIGNMENT IDENTIFICATION

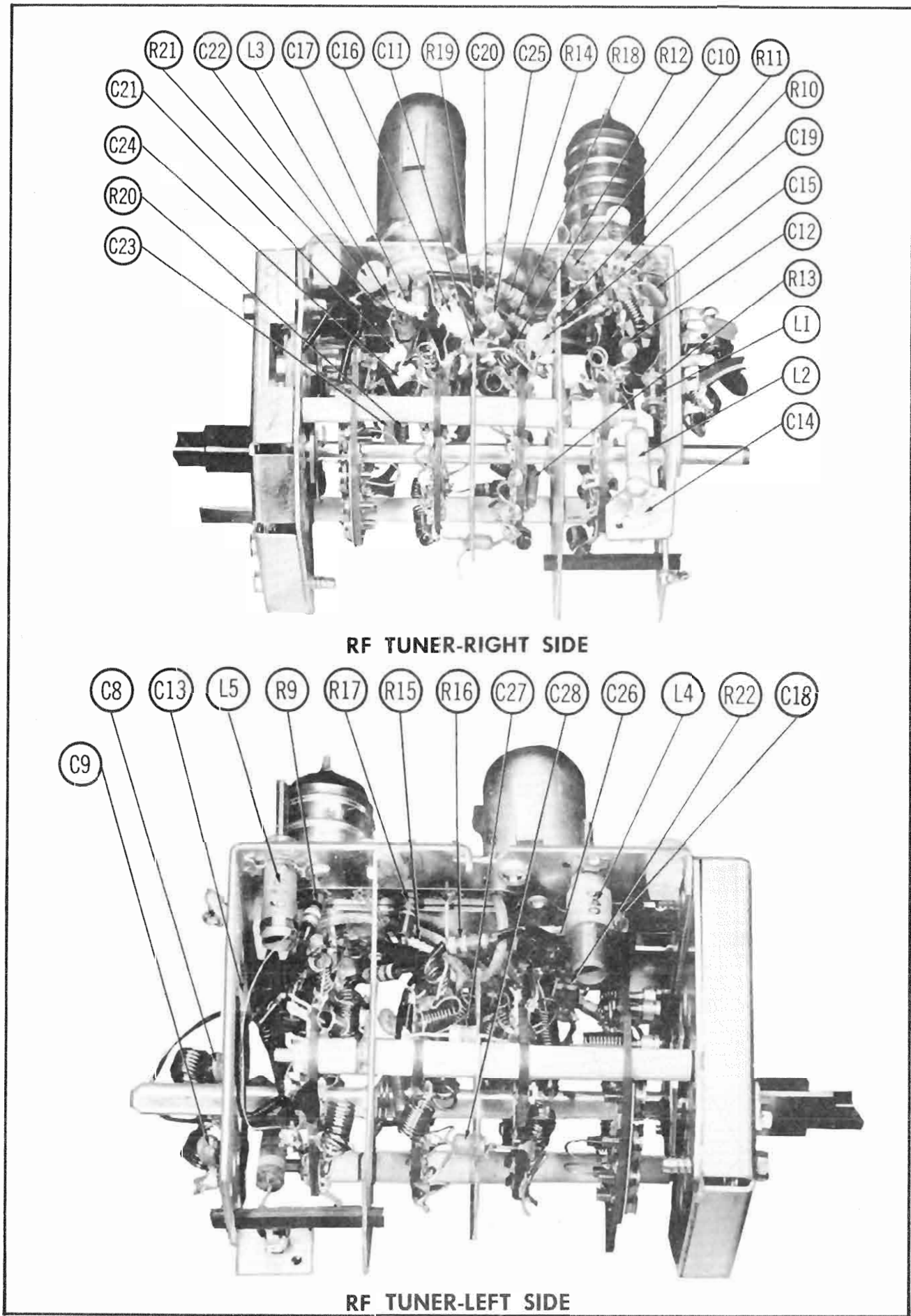
MAGNAVOX CHASSIS U21-01AA, U21-02AA,  
U21-03AA, U21-04AA, V21-02AA, V21-03AA, V21-04AA



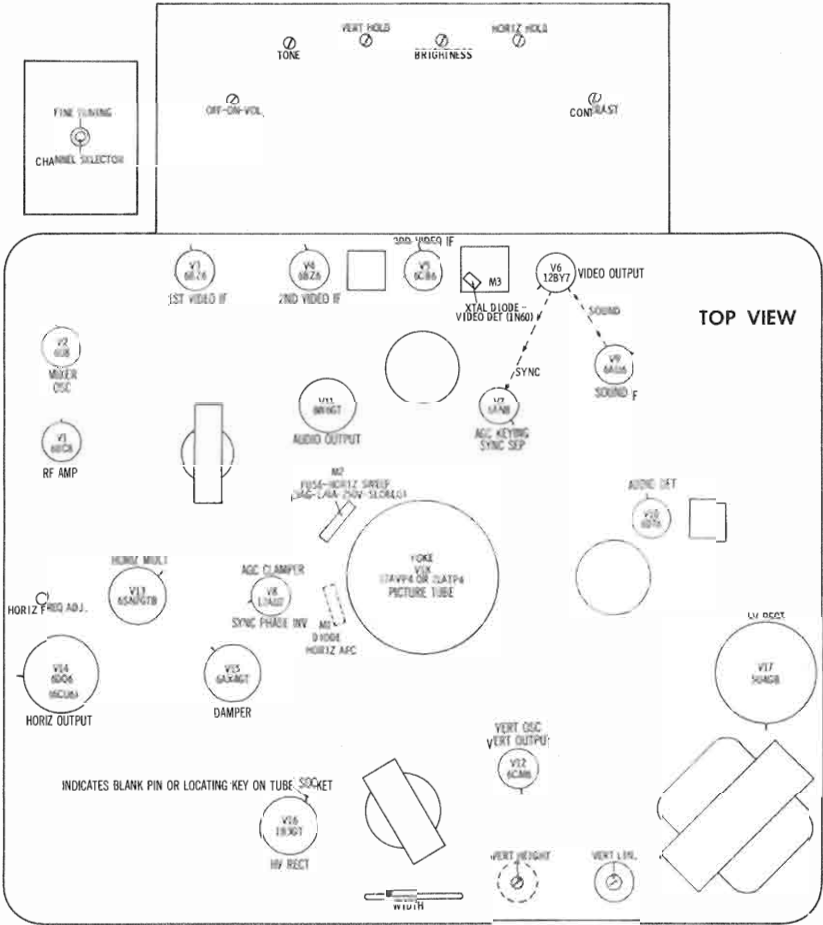


CHASSIS BOTTOM VIEW-RESISTOR AND INDUCTOR IDENTIFICATION

MAGNAVOX CHASSIS U21-01AA, U21-02AA,  
U21-03AA, U21-04AA, V21-01AA, V21-03AA, V21-04AA



## 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 - V17

### LOSS OF PICTURE OR SOUND

No pic, no sound, has raster - V1, V4, V5, Diode (M3), V6, V18, V11

No pic, no sound, has snow - V1, V2, V3

No pic, has sound, has raster - V6, V18

Has pic, no sound - V9, V10, V11

Overloaded picture - V7

### SYNC FAILURE

No vert. sync - V7, V8, V12

No horiz. sync - V7, V8, Rectifier (M1), V13

No vert. or horiz. sync - V7, V8

### SWEEP FAILURE

No raster, has sound - V13, V14, V15, V16, V17, Fuse (M2)

No vertical deflection - V12

Poor vert. linearity or foldover - V12

Poor horiz. linearity or foldover - V13, V14, V15

Narrow picture - V13, V14, V15, V11

Vert. off freq. - V7, V8, V12

Horiz. off freq. - V7, V8, M1, V13

MAGNAVOX CHASSIS U21-01AA, U21-02AA, U21-03AA, U21-04AA, V21-02AA, V21-03AA, V21-04AA

# ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Do not remove the horizontal oscillator tube (V13) to disable the high voltage. The high voltage lead should be securely taped and kept away from the chassis.

## VIDEO IF ALIGNMENT

Connect the negative lead of a 1.5 volt bias battery to the ungrounded side of C51. Connect the negative lead of a 3 volt bias battery to the ungrounded side of C4. Connect both positive leads to chassis. Set the local-distant switch to local position and the contrast control fully counter clockwise. 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 B. Low side to chassis.	43MC (10MC Swp)	47.25MC	Any non-interfering channel.	Vert. amp. thru 10K to point A. Low side to chassis.	A1	Adjust to place marker in trap notch as in Fig. 1. Use enough sweep generator output so that trap notch is plainly visible on scope. It is possible to obtain two settings of A1. The correct setting is with the core farthest out of the coil form.
2. "	"	"	42.75MC 45.0MC 45.75MC 47.25MC	"	"	A2, A3, A4	Adjust A2 for maximum response between 42.75MC and 45.75MC. Adjust A3 to place 45.75MC marker at 45% on response curve. Adjust A4 to place 42.75MC marker at 60% on response curve. (See Fig. 2) Recheck A1 trap (47.25MC).
3. "	High side to point C. Low side to chassis.	"	42.75MC 45.75MC	"	"	A5, A6	Adjust A5 for maximum gain while placing 45.75MC marker at 45% on response curve as in Fig. 2. Adjust A6 for maximum gain and overall response with proper tilt. It may be necessary to alternately adjust A5 and A6 several times to obtain response within limits as shown in Fig. 2.
4. 1K resistor	High side to point D thru 1K. Low side to chassis.	43MC (10MC Swp)	42.75MC 45.0MC 45.75MC	Any unused UHF channel.	"	A7	Set VHF to UHF position. Adjust A7 for MINIMUM tilt on response curve as in Fig. 2. This adjustment need be made only when UHF-VHF tuner is used in set.

## SOUND IF ALIGNMENT

Set contrast control to maximum. Tune the receiver to a strong local station and adjust for maximum volume and MINIMUM distortion. Reduce the signal input by disconnecting antenna or placing an attenuator between the antenna and the antenna terminals, so that with the volume control turned to maximum, the sound is barely audible. Adjust A9 for MINIMUM noise and clearest sound. With the same weak signal input, adjust A10 and A11 for MINIMUM distortion and clearest sound. Reduce the signal input further until noise is present and retouch A9 for MINIMUM noise and clearest sound.

## VHF OSCILLATOR ALIGNMENT

If a separate signal generator is used as a marker generator, loosely couple it to the antenna terminals. Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection. Set the fine tuning control to the mid-position of its range.

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
5. Fig. 3	Thru matching network (Fig. 3) to antenna terminals.	213MC (10MC swp) 207MC (10MC swp) 201MC (10MC swp) 195MC (10MC swp) 189MC (10MC swp) 183MC (10MC swp) 177MC (10MC swp) 171MC (10MC swp) 165MC (10MC swp) 159MC (10MC swp) 153MC (10MC swp) 147MC (10MC swp) 141MC (10MC swp) 135MC (10MC swp) 129MC (10MC swp) 123MC (10MC swp) 117MC (10MC swp) 111MC (10MC swp) 105MC (10MC swp) 99MC (10MC swp) 93MC (10MC swp) 87MC (10MC swp) 81MC (10MC swp) 75MC (10MC swp) 69MC (10MC swp) 63MC (10MC swp) 57MC (10MC swp)	211.25MC 215.75MC 205.25MC 209.75MC 199.25MC 203.75MC 193.25MC 197.75MC 187.25MC 191.75MC 181.25MC 185.75MC 175.25MC 179.75MC 169.25MC 173.75MC 163.25MC 167.75MC 157.25MC 161.75MC 151.25MC 155.75MC 145.25MC 149.75MC 139.25MC 143.75MC 133.25MC 137.75MC 127.25MC 131.75MC 121.25MC 125.75MC 115.25MC 119.75MC 109.25MC 113.75MC 103.25MC 107.75MC 97.25MC 101.75MC 91.25MC 95.75MC 85.25MC 89.75MC 79.25MC 83.75MC 73.25MC 77.75MC 67.25MC 71.75MC 61.25MC 65.75MC 55.25MC 59.75MC	13 12 11 10 9 8 7 6 5 4 3 2	Vert. amp. thru 10K to point A. Low side to chassis.	A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23	Adjust to place sound marker in trap notch as in Fig. 4. Video marker should fall at 50%. See Fig. 5 for adjustments.

## RF AND MIXER ALIGNMENT AND UHF TUNER ALIGNMENT

This portion of the receiver has been properly aligned at the factory and is very stable. Alignment of this portion should not be required in the field.

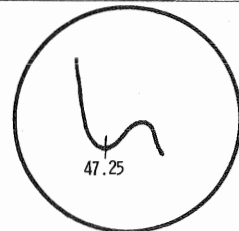


FIG. 1

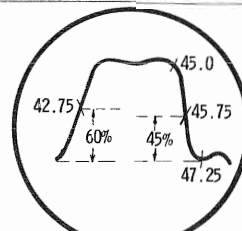


FIG. 2

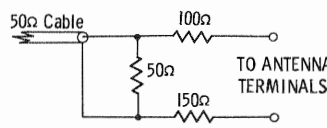


FIG. 3

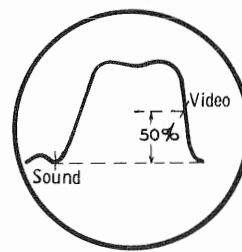
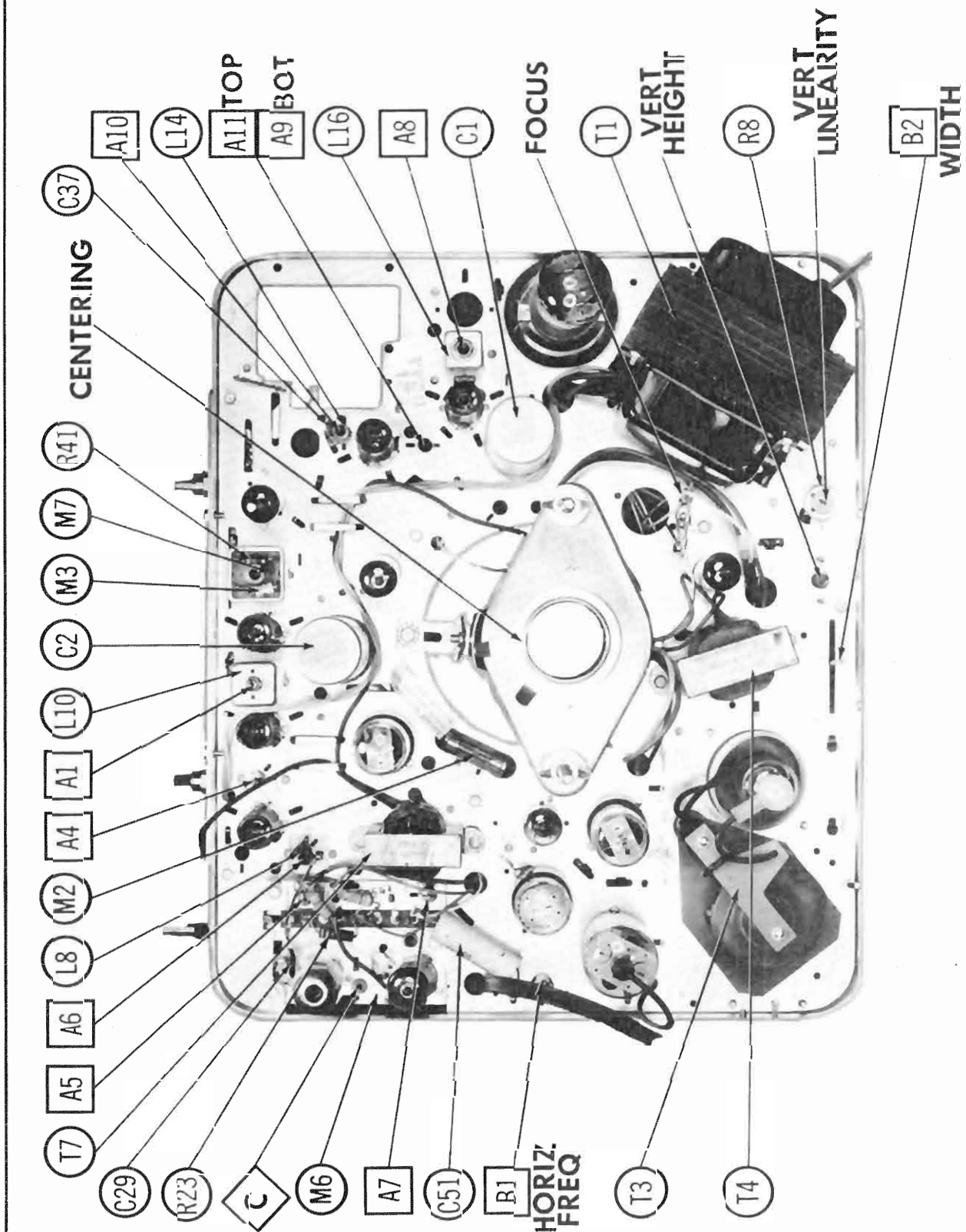
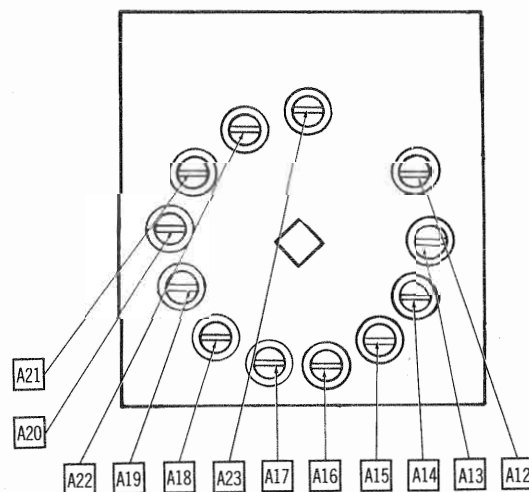


FIG. 4



MAGNAVOX CHASSIS U21-011AA, U21-02AA,  
U21-03AA, U21-04AA, V21-02AA, V21-03AA, V21-04AA  
MAIN DOT SISVHD



PARTS LIST AND DESCRIPTIONS (Continued)

SELENIUM DIODE

ITEM No.	RATING		REPLACEMENT DATA					NOTES
	CURRENT		Magnavox PART No.	FEDERAL PART No.	INTERNATIONAL PART No.	MALLORY PART No.	RADIO RECEPTOR PART No.	
M1			530045-1		1T1 ①			Horiz. Phase Det. (Pigtail) ① 2 required.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			Magnavox PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M2	3AG S/B	1/4A 250V	180157-30		312, 250 (3AG-1/4A-S/B)	357001	MDL 1/4	4405

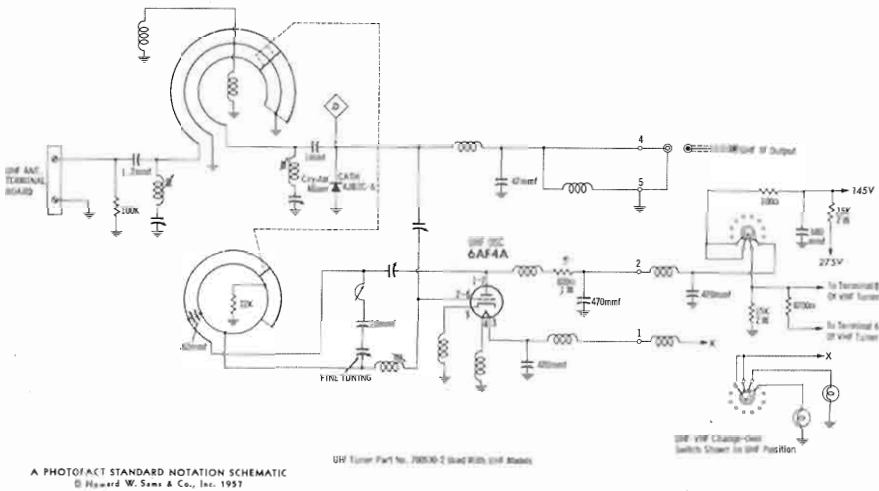
CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA		NOTES
		Magnavox PART No.	SYLVANIA PART No.	
M3	1N60*	Note 1	1N60	Video Detector (Pigtail)

\* 1N64 may be used in some versions.  
Note 1: Part of detector assembly M7 part #360638-1.

MISCELLANEOUS

ITEM No.	PART NAME	Magnavox PART No.	NOTES
M4	Pilot Lamp	700541-3	VHF UHF, Used in U21 chassis. Includes crystal (M3), 4th Video IF, 470Ω resistor, 10MMF Cap., and Series Peaking Coil.
M5	Tuner	700530-2	
M6	Tuner	360638-1	
M7	Detector Ass'y.	360638-1	
M8	Centering Device	360492-5	
M9	Ion Trap		

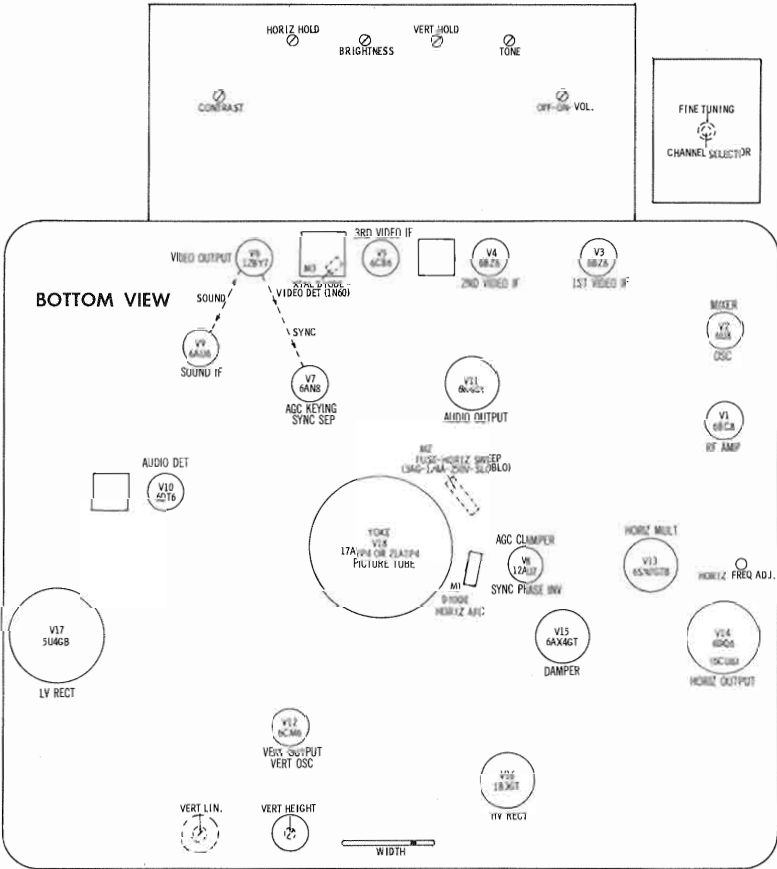


ALTERNATE UHF TUNER SCHEMATIC

RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BC8	† 2000Ω	250K	1NF	0Ω	.1Ω	1NF	1.1Meg	0Ω	0Ω
V2	6U8	† 40K	360K	† 100K	0Ω	.1Ω	† 5500Ω	0Ω	0Ω	10K
V3	6BZ6	55K	56Ω	.1Ω	0Ω	■ 1000Ω	■ 1000Ω	0Ω		
V4	6BZ6	50K	56Ω	.1Ω	0Ω	■ 1000Ω	■ 1000Ω	0Ω		
V5	6CB6	.1Ω	220Ω	.1Ω	0Ω	■ 1000Ω	■ 1000Ω	0Ω		
V6	12BY7	■ 130Ω	4700Ω	0Ω	0Ω	0Ω	.1Ω	† 5500Ω	■ 22K	0Ω
V7	6AN8	† 1Meg	4.7Meg	0Ω	0Ω	.1Ω	380K	† 1500Ω	† 23K	† 1000Ω
V8	12AU7	1Meg	1Meg	0Ω	0Ω	.1Ω	† 4000Ω	22K	3300Ω	
V9	6AU6	1.3Ω	0Ω	.1Ω	0Ω	■ 12K	■ 12K	220Ω		
V10	6DT6	3.6Ω	680Ω	.1Ω	0Ω	† 270K	■ 6800Ω	560K		
V11	6W6GT	TP	0Ω	† 450Ω	† 3600Ω	550K	NC	.1Ω	120K	
V12	6CM7	† 3300Ω	NC	0Ω	.1Ω	0Ω	1.8Meg	● 1.7Meg	● 1Meg	● 1500Ω
V13	6SN7GTB	4.7Meg	† 7500Ω	1300Ω	● 140K	† 120K	1300Ω	.1Ω	0Ω	TOP CAP † 26Ω
V14	6DQ6	TP	0Ω	TP	† 12K	470K	TP	.1Ω	0Ω	
V15	6AX4GT	NC	NC	1NF	NC	† 35Ω	NC	0Ω	.1Ω	TOP CAP † 500Ω
V16	1B3GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								
V17	5U4GB	NC	120K	NC	22Ω	NC	20Ω	NC	120K	
V18	21ATP4	.1Ω	11K	Pin 6 † 1500Ω	Pin 10 † 1500Ω	Pin 11 ● 320K	Pin 12 0Ω			

† MEASURED FROM PIN 2 OF V17.  
● THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.  
† MEASURED FROM PIN 3 OF V15. NC NO CONNECTION  
■ MEASURED FROM 145V SOURCE. TP TIE POINT



TUBE PLACEMENT CHART

SET 347 FOLDER 7

MAGNAVOK CHASSIS U21-01AA, U21-02AA, U21-03AA, U21-04AA, V21-02AA, V21-03AA, V21-04AA



## TUBES ( GENERAL ELECTRIC, SYLVANIA )

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	RF Amp.	6BC8		V9	Sound IF Amp.	6AU6	
V2	Mixer-Osc.	6U8		V10	Audio Det.	6DT6	
V3	1st Video IF Amp.	6BZ6		V11	Audio Output	6W6GT	
V4	2nd Video IF Amp.	6BZ6		V12	Vert. Osc. - Vert. Output	6CM7	
V5	3rd Video IF Amp.	6CB6		V13	Horiz. Mult.	6SN7GTB	
V6	Video Output	12BY7		V14	Horiz. Output	6DQ6	Note 1
V7	AGC Keying-Sync Sep.	6AN8		V15	Damper	6AX4GT	
V8	AGC Clamper-Sync Phase Inverter	12AU7		V16	HV Rectifier	1B3GT	
				V17	LV Rectifier	5U4GB	

Note 1: 6CU6 used as alternate.

## PICTURE TUBE

ITEM No.	REPLACEMENT DATA	NOTES
V18	21ATP4 17AVP4	21ATP4 ① 17AVP4 ① 21ATP4/A ② 17AVP4A ②

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA	NOTES
C1A	40 350	270021-52	
B	10 350		
C	50 50		
D	70 350		
C2A	30 350	270021-64	
B	100 200		
C	15 350		
D	20 350		
C3	20 350	270027-20	
C4	2 50	270027-22	
C5	20 350	270027-20 (Note 1)	

Note 1: In some versions, C5 may be a non polarized unit.  
\* Non catalog item.

## FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA	NOTES
C6	15	250207-84	
C7	15	250207-84	
C8	39	250175-20	
C9	39	250175-20	
C10	470	250175-8	
C11	18	250216-4	
C12	10	250221-127	
C13	470	250175-8	
C14	1500	250188-6	
C15	1500	250175-10	
C16	15	250207-5	
C17	6		
C18	470	250175-8	
C19	100	250175-24	
C20	470	250175-8	
C21	10	250088-136	
C22	470	250218-15	
C23	.91		
C24	6	250088-143	
C25	1500	250175-10	
C26	470	250175-8	
C27	1.2	250221-115	
C28	.36	250216-5	
C29	68	250226-326	
C30	800	250218-14	
C31	680	250218-4	
C32	470	250218-15	
C33	800	250218-14	
C34	10000	250175-2	
C35	.22	250211-15	
C36	2.2	250221-118	
C37	68	250218-7	
C38	3900	250175-31	
C39	5000	250175-1	
C40	470	250218-6	
C41	10000	250175-2	
C42	10000	250218-19	
C43	15		
C44	10000	250218-19	
C45	.047	250202-11	
C46	5000	250175-30	
C47	10000	250175-2	
C48	100	250218-22	
C49	.0047	250201-5	
C50	1000	250175-27	
C51	.22	250202-15	
C52	.0022	250211-3	
C53	150	250229-534	
C54	.1	250211-13	
C55	1000	250218-8	
C56	10000	250218-13	
C57	5000	250218-13	
C58	.027	250212-9	
C59	.047	250212-7	
C60	.1	250211-13	
C61	.0047	250212-4	
C62	.047	250212-5	
C63	360	250229-343	
C64	1000	250218-8	
C65	3900	250226-468	
C66	470	250229-346	
C67	1000	250218-8	
C68	.047	250211-11	
C69	.047	250211-11	
C70	47	250175-32	
C71	.1	250201-13	
C72A	10000	250219-3	
B	10000		

## PARTS LIST AND DESCRIPTIONS

### CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA	NOTES
C73	.1	Magnavox PART No. (Note 3) 250218-4	
C74	680	AEROVOX PART No. P488N-1 BPD-00068	
		CENTRALAB PART No. DF-104 DD-681	
		CORNELL-DUBILIER PART No. CUB4PI BYA10T68	
		ERIE PART No. ED-680	
		MALLORY PART No. GEM-401 UC-5368	
		SPRAGUE PART No. 4TM-81 5GA-T68	

Note 2: Some versions may use 6.8MMF in this application.

Note 3: Some versions may use .02MFD @ 500V in this application. (Part #250175-7)

## CONTROLS

ITEM No.	RATING	REPLACEMENT DATA	INSTALLATION NOTES
RIA	1Meg	220135-1	
B	Shaft		
C	Switch		
R2A	800Ω	220126-56	
R3A	50K		
B	Shaft		
R4A	200K		
B	Shaft		
R5A	1.25Meg	220132-3	
B	Shaft		
R6A	500K	220132-4	
B	Shaft		
R7A	2.5Meg	220146-2	
B	Shaft		
R8	3000Ω	220120-3	

Note 1: Part #22012-46 used in chassis V21-01AA & U21-01AA.

## RESISTORS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REPLACEMENT DATA	NOTES
R9	100K	230104-86	
R10	470K	230104-94	
R11	470K	230104-94	
R12	680Ω	230104-60	
R13	8200Ω	230104-73	
R14	33K	230104-80	
R15	330K	230104-92	
R16	3300Ω	230104-68	
R17	680Ω	230104-80	
R18	820K	230104-97	
R19	100K	230104-86	
R20	5600Ω	230104-71	
R21	10K	230104-74	
R22	150Ω	230104-52	
R23	4700Ω	230105-70	
R24	9.1Meg 5%	230094-254	
R25	33K	230104-80	
R26	68K	230104-84	
R27	330K 5%	230094-219	
R28	56K 5%	230094-201	
R29	820K 5%	230094-229	
R30	100Ω	230104-50	
R31	6800Ω 5%	230094-179	
R32	1000Ω	230104-62	
R33	56Ω	230104-47	
R34	12K 5%	230094-185	
R35	1000Ω	230104-62	
R36	1000Ω	230104-62	
R37	56Ω	230104-47	
R38	8200Ω 5%	230094-181	
R39	1000Ω	230104-62	
R40	220Ω	230104-54	
R41	470Ω	230104-50	
R42	4700Ω 5%	230094-175	
R43	270K	230104-91	
R44	4300Ω	240073-1	
R45	1000Ω	230105-62	
R46	22K	230105-78	
R47	22K	230104-78	
R48	12K	230104-75	
R49	22Ω	230104-54	
R50	560K	230104-95	
R51	6800Ω	230104-72	
R52	680Ω	230104-60	

Note 1: Not used in some versions.

Note 2: Negative temp. comp. resistor (approximately 800K cold).

Note 3: A 150K 5% resistor is used in some versions. (Part #230094-211)

Note 4: A 2200Ω @ 2W resistor is used in some versions. (Part #230106-66)

## TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA	NOTES
T1	117VAC @ 1.56A	575VCT @ 210A	5V @ 3A

- Fabricate mounting.
- Use original mounting bracket.
- Parallel and phase 6.3V filament windings.
- Parallel and phase 6.3V, 5A windings.
- Tape 6.3V, 1.2A winding.
- Tape low high voltage winding; tape 5V, 3A winding.

## TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	REPLACEMENT DATA	NOTES
T2	Vert. Osc. Trans.	320262-1	
T3	Horiz. Output Trans.	360623-1	
T4	Vert. Output Trans.	320263-1	
T5A	Yoke (80°) Horiz (21MH)	360617-1	
T6	Vert (45MH)	360619-1	
	Width Coil (4-31MH)	360652-1	

- Cut and tape blanking lead.
- Drill new mounting hole(s).
- Connect as auto trans.
- Yoke rear cover.
- Use original yoke damping network.
- Use terms 1 and 2.
- Use black and white terms.
- Use terms C and E.
- Use orig. mounting bracket.
- Use coil (L).
- Use red and blue terms.

This part may be superseded by Parts Manufacturer's introduction of special unit for this application.

## \* HORIZONTAL OUTPUT TRANSFORMER CONNECTION DATA

Use Original Width Coil Unless Replacement Type is Listed

ORIGINAL TERMINAL CONNECTIONS	Halldorson Replacement Connections	Merit Replacement Connections	RCA Replacement Connections	Ram Replacement Connections	Stancor Replacement Connections	Thordarson Replacement Connections	Triad Replacement Connections
8					8	8	
5					5	6	
3					3	3	
4					4	2	
2					2	2	
1					1	1	
Connect Width Coil Across	1 & 2				1 & 2	1 & 2	
Special Notes						⑬	

⑬ If insufficient width, add capacity (approx. 50-100MMF @ 4KV) across horiz. yoke.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA	NOTES
T7	3.5K 3-4Ω	Magnavox PART No. 320068-2	

## COILS (RF-IF)

ITEM No.	USE	Magnavox PART No.	NOTES	ITEM No.	USE	Magnavox PART No.	NOTES
L1	Antenna Input	360491-2		L4	IF Output Coil	360540-1	
L2	RF Choke	360601-8		L5	IF Input Coil	360649-1	
L3	RF Choke	360601-9		L6	RF Choke	360601-1	

ITEM No.	USE	REPLACEMENT DATA	NOTES
L8	1st Video IF	360640-1	
L9	2nd Video IF	360636-1	
L10	3rd Video IF	360637-1	
L11	Shunt Peaking Coil	360622-10	
L12	Series Peaking Coil	360622-15	
L13	Shunt Peaking Coil	360622-16	
L14	1st Sound IF	360657-1	
L15	2nd Sound IF	360650-1	
L16	Quadrature Coil	360651-1	
L17	Ant. Trap Coil		
L18	Ant. Trap Coil		

\* Parallel with 39K resistor.

## TRANSFORMER (HORIZ. OSC.)

ITEM No.	DC RES.	REPLACEMENT DATA	NOTES
L19	52Ω	Magnavox PART No. 360579-1	

## FILTER CHOKE

ITEM No.	RATINGS	REPLACEMENT DATA	NOTES
L20	TOTAL DIRECT CURRENT .210A	D.C. RESISTANCE 34.5Ω	INDUCTANCE (1000 CYCLES) .0005H

① Drill one new mounting hole.

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	Magnavox PART No.	REPLACEMENT DATA
K1	Vertical Integrator	2000MMF, 5000MMF, 5000MMF, 22K, 8200Ω, 8200Ω	250186-1	Aerovox Centralab Cornell-Dubilier Erle Sprague

MAGNAVOX CHASSIS U21-01AA, U21-02AA, U21-03AA, U21-04AA, V21-02AA, V21-03AA, V21-04AA