

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Tune in a TV station and adjust the Horizontal Hold until the picture synchronizes horizontally. If the picture cannot be synced with the Horizontal Hold, turn the Waveform slug (B1) several turns out of the coil form from its original position. Readjust the Horizontal Hold until the picture synchronizes horizontally.

Connect the vertical amplifier of the scope thru a low capacity probe to point ①. Connect low side to chassis. Retouch the Horizontal Hold to

synchronize the picture.

Adjust the Waveform slug (B1) for a Waveform similar to Fig. 5 with the sharp peak approximately 10% higher than the broad peak. Keep the picture in sync during this adjustment with the Horizontal Hold. Remove scope connection and retouch Horizontal Hold if necessary to synchronize picture horizontally.

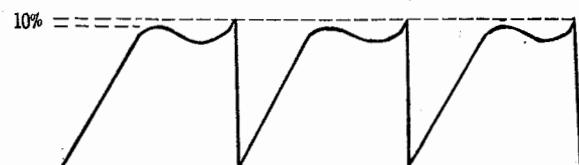


FIG. 5

SET 486
FOLDER 2

PHOTOFACT® Folder

with CIRCUITRACE®

SILVERTONE CHASSIS 456.50340, 341,
342, 343, 528.50340, 341, 342, 343

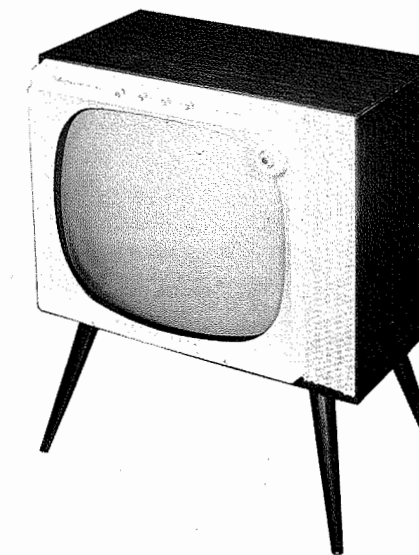
DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL MODEL 120-5 (CH. 528, 50343)

1. Remove 9 wood and 1 metal screw holding rear cover. Remove Tuner antenna leads. Remove rear cover.
2. Remove 8 push-on type knobs from front of cabinet.
3. Remove yoke plug, speaker leads, hi voltage lead, and picture tube socket.
4. Remove 2 wood screws holding AC interlock bracket.
5. Remove 2 nuts holding bottom chassis bracket.
6. Remove 2 wood screws holding top chassis brackets and 1 screw holding Tuner mounting bracket.
7. Remove chassis.

PICTURE TUBE REMOVAL

1. Follow steps 1 and 2 of chassis removal.
2. Remove yoke plug, hi voltage lead, and picture tube socket.
3. Remove 2 wood screws at bottom front of front mask. Lower mask and remove.
4. Remove 4 picture tube mounting bracket bolts.
5. Remove picture tube out front of cabinet.



MODEL 120-5 (Ch. 528, 50343)

CAUTION

ONE SIDE OF AC LINE CONNECTED TO CHASSIS.

TRADE NAME	Silvertone Models	Chassis
	PC-100, PC-101, PC-102BE, PC-102GY, PC-103, PC-110, PC-120....	456.50340, 456.50342
	PC-100-5, PC-101-5, PC-102-5BE, PC-102-5GY, PC-103-5, PC-110-5,	PC-120-5.... 456.50341, 456.50343
	100, 101, 102BE, 102GY, 103, 110, 120	528.50340, 528.50342
	100-5, 101-5, 102-5BE, 102-5GY, 103-5, 110-5, 120-5	528.50341, 528.50343
SUPPLIER	Sears, Roebuck & Co., 925 S. Homan Avenue, Chicago, Illinois	
TYPE SET	Television Receiver	
TUBES	VHF - Fourteen, UHF - Fifteen	
POWER SUPPLY	110-120 Volts AC, 60 Cycle	
TUNING RANGE	Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)	
	RATING	145 Watts, 1.3 Amp. @ 117 Volts AC

SERVICING IN THE FIELD

SAFETY GLASS REMOVAL

Remove 2 wood screws at bottom front of mask. Lower mask and remove.

FUSE DEVICE

A Circuit Breaker is used for low voltage power supply protection, and may be reset by depressing the reset button. (For location, see "Tube Placement Chart.")

TUNER OSCILLATOR ADJUSTMENTS

To touch up VHF Oscillator, it is necessary to remove rear cover.

AGC

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

FOCUS

The focus may be varied by connecting the lead from pin 6 of the picture tube to various voltage points. (For location, see photo "Cabinet-Rear View".)

HORIZONTAL OSCILLATOR FIELD ADJUSTMENTS

Coarse adjustment of the Horizontal Hold is accomplished by the proper setting of the Horizontal Frequency Slug (B1).

WIDTH

The width may be varied by adjusting a metallic sleeve, located between the yoke and the picture tube neck, in or out of the yoke.

CENTERING

Centering is accomplished by 2 magnetic rings, located behind the yoke, on the neck of the picture tube.

HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



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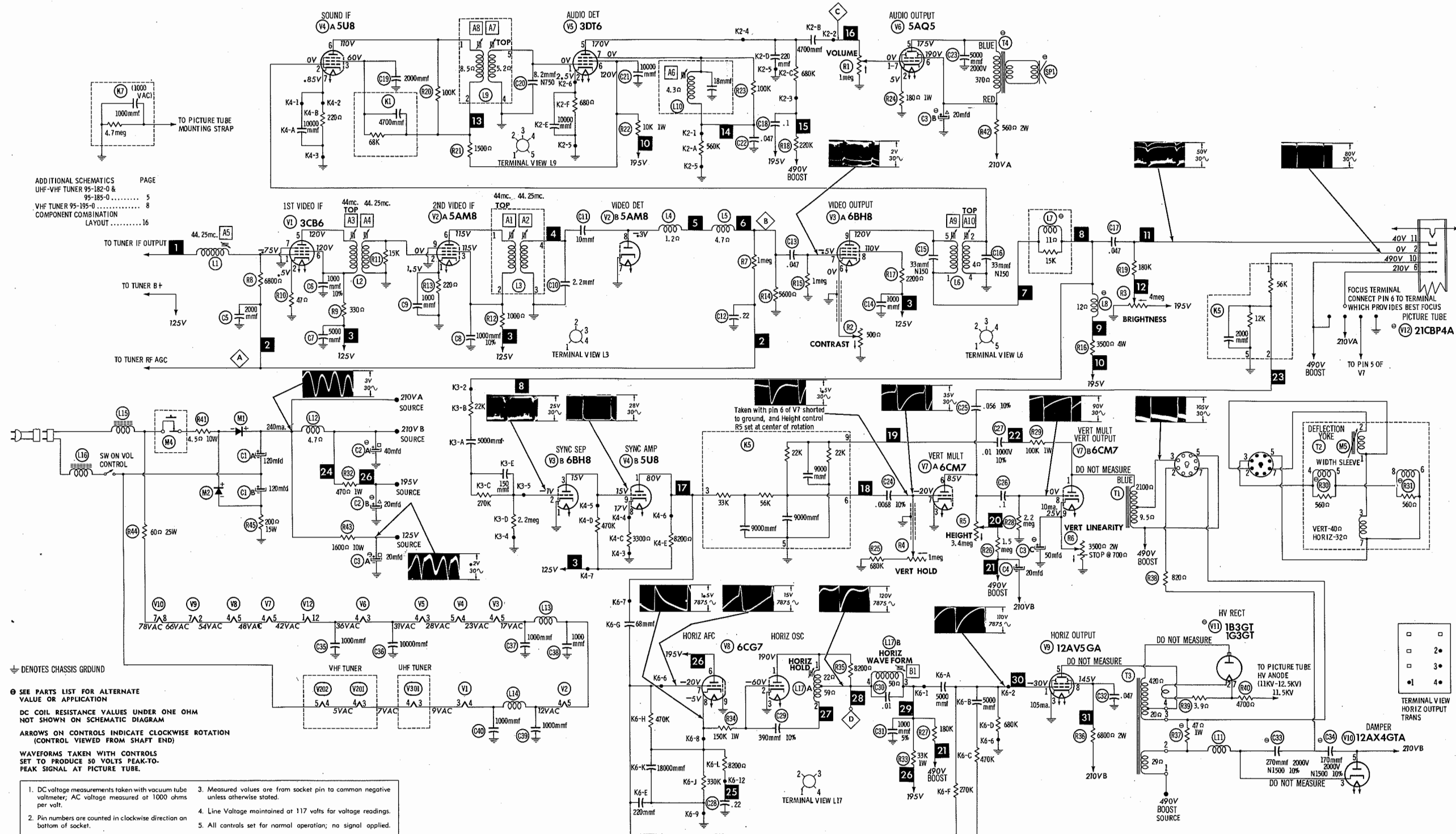
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SILVERTONE CHASSIS 456.50340, 341,
342, 343, 528.50340, 341, 342, 343

SET 486
FOLDER 2

SILVERTONE CHASSIS 456.50340, 341,
342, 343, 528.50340, 341, 342, 343

FOLDER 2

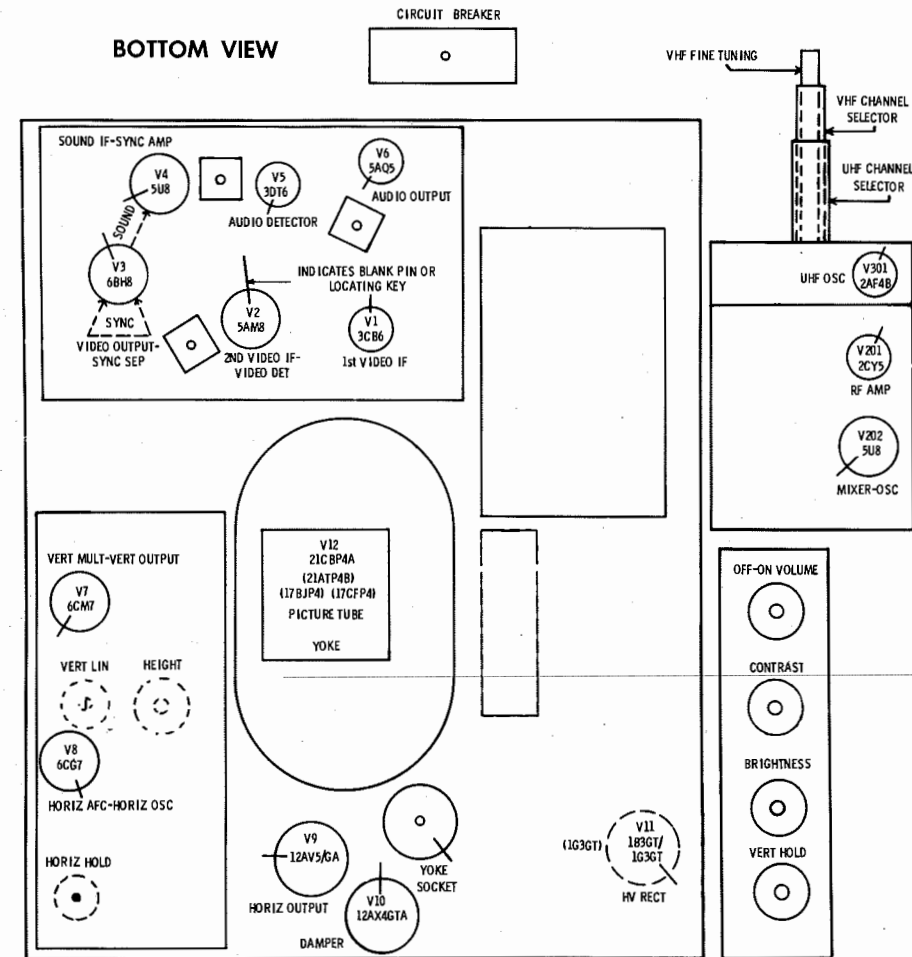


RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	3CB6	1meg	47Ω	2.9Ω	4Ω	†1900Ω	†1900Ω	0Ω		
V2	5AM8	220Ω	.3Ω	†2600Ω	4Ω	5Ω	†2600Ω	0Ω	5600Ω	0Ω
V3	6BH8	0Ω	2.2meg	†470K	6.5Ω	5Ω	• 50Ω	1meg	†3800Ω	†4000Ω
V4	5U8	†9800Ω	4Ω	†80K	6.5Ω	8Ω	†11K	220Ω	3300Ω	†470K
V5	3DT6	5.2Ω	680Ω	8Ω	9Ω	†900K	†11K	560K		
V6	5AQ5	0Ω	180Ω	9Ω	9.5Ω	†930Ω	†560Ω	0Ω		
V7	6CM7	†2100Ω	NC	0Ω	12.5Ω	11Ω	•† 3.2meg	• 1.3meg	2.2meg	• 2500Ω
V8	6CG7	†33K	450K	0Ω	14Ω	12.5Ω	†470Ω	500K	300K	NC
V9	12AV5GA	500K	14Ω	0Ω	NC	† 67Ω	NC	17Ω	†6800Ω	
V10	12AX4GTA TP	NC	†250K	NC	†4.7Ω	TP	20Ω	17Ω		
V11	1B3GT 1G3GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP †490Ω
V12	21CBP4A	11Ω	68K	Pin 6 † 4.7Ω	Pin 10 † 0Ω	Pin 11 • 620K	Pin 12 9.5Ω			
V201	2CY5	1meg	0Ω	2Ω	1.5Ω	†1600Ω	†12K	0Ω		
V202	5U8	†4300Ω	275K	†35K	1.5Ω	0Ω	†3800Ω	0Ω	0Ω	15K
V301	2AF4B	†*5300Ω	6800Ω	2.9Ω	2Ω	.2Ω	6800Ω	†*5300Ω		

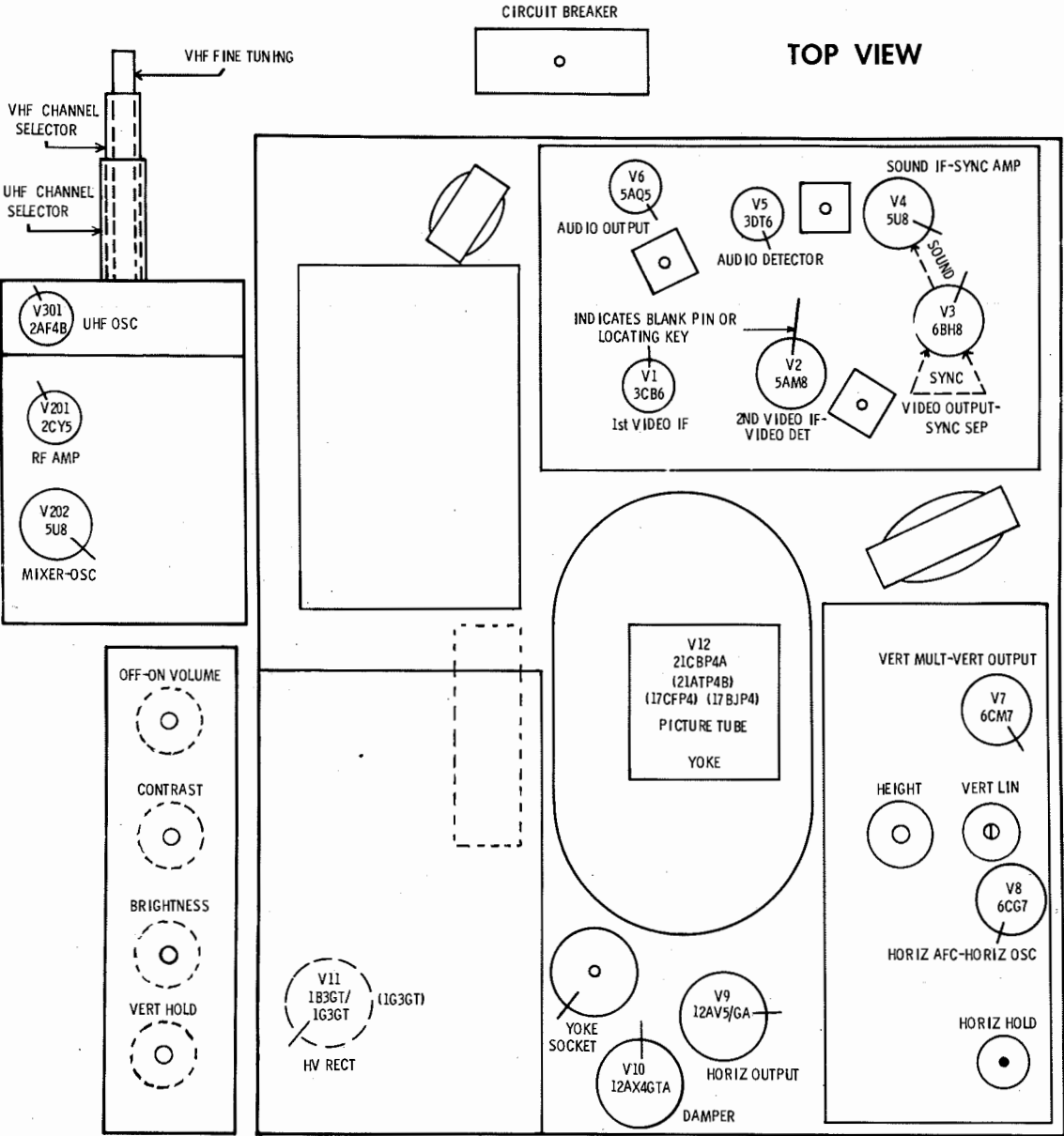
- † THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
• THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.
† MEASURED FROM 210V SOURCE.
† MEASURED FROM PIN 3 OF V10.
• MEASURED IN "UHF" POSITION
- NC NO CONNECTION
TP TIE POINT

BOTTOM VIEW



TUBE PLACEMENT CHART

TUBE PLACEMENT CHART



TUBE FAILURE CHECK CHART

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

POWER SUPPLY FAILURE

No raster, no sound Circuit Breaker, Rectifiers (B+)

SWEEP FAILURE

No raster, has sound V8, V9, V10, V11, V12

No vertical deflection V7

Poor vert. linearity or foldover V7

Poor horiz. linearity or foldover V8, V9, V10

Narrow picture V8, V9, V10, Rectifiers (B+)

Vert. off freq. V7

Horiz. off freq. V8

LOSS OF PICTURE OR SOUND

No pic, no sound, has raster V1, V2, V3

No pic, no sound, has snow V201, V202

No pic, has sound, has raster V3, V12

Has pic, no sound V4, V5, V6

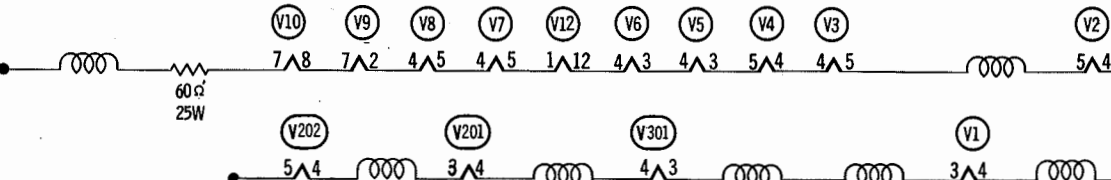
SYNC FAILURE

No vert. sync V3, V4

No horiz. sync V3, V4

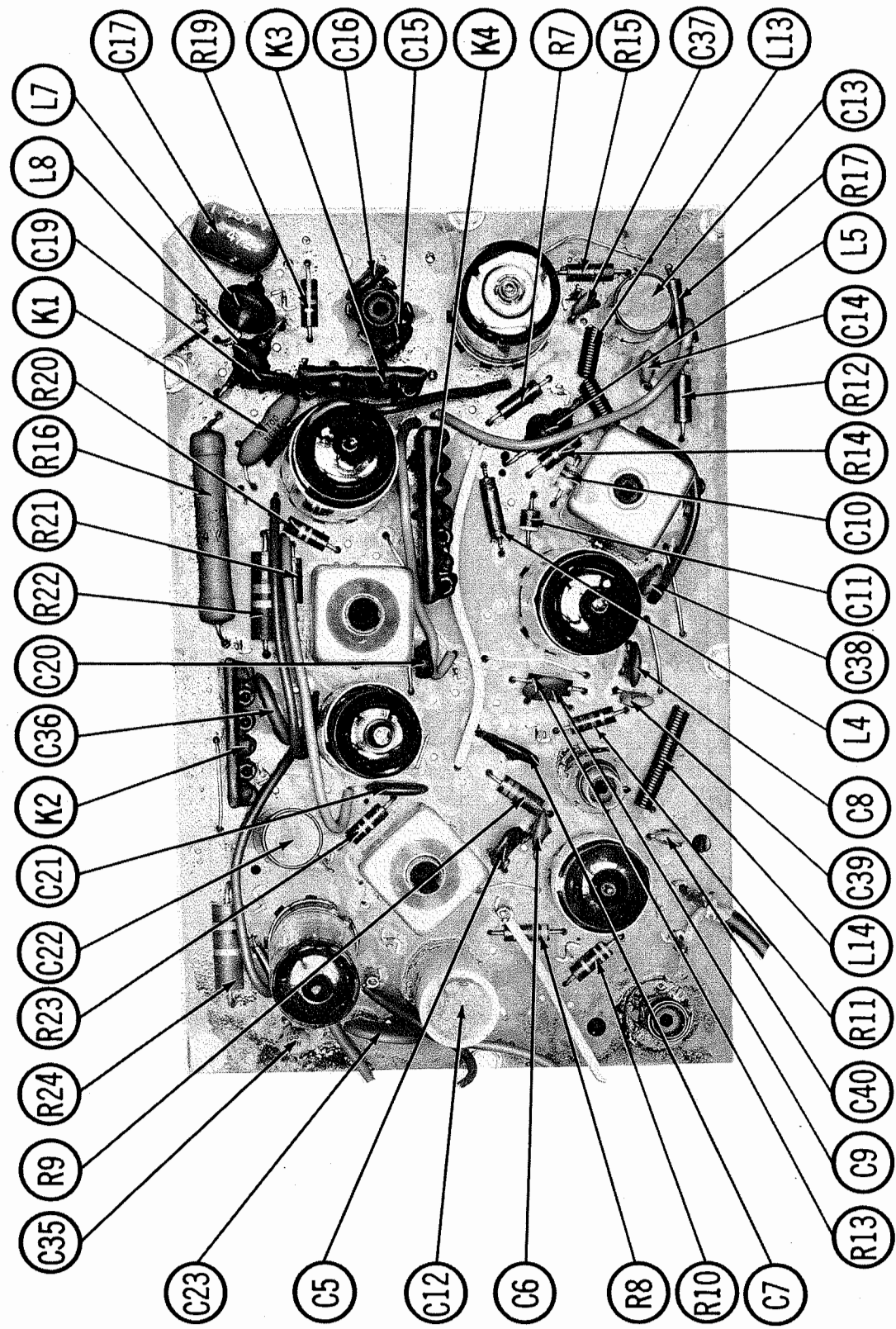
No vert. or horiz. sync V3, V4

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

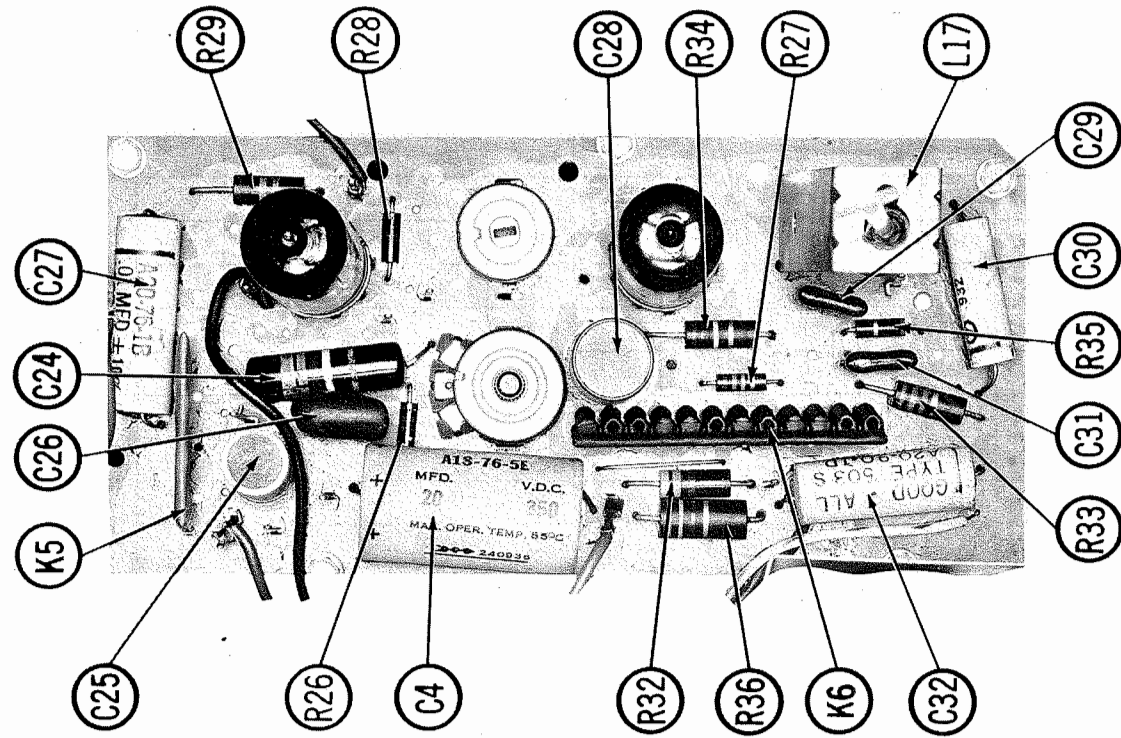
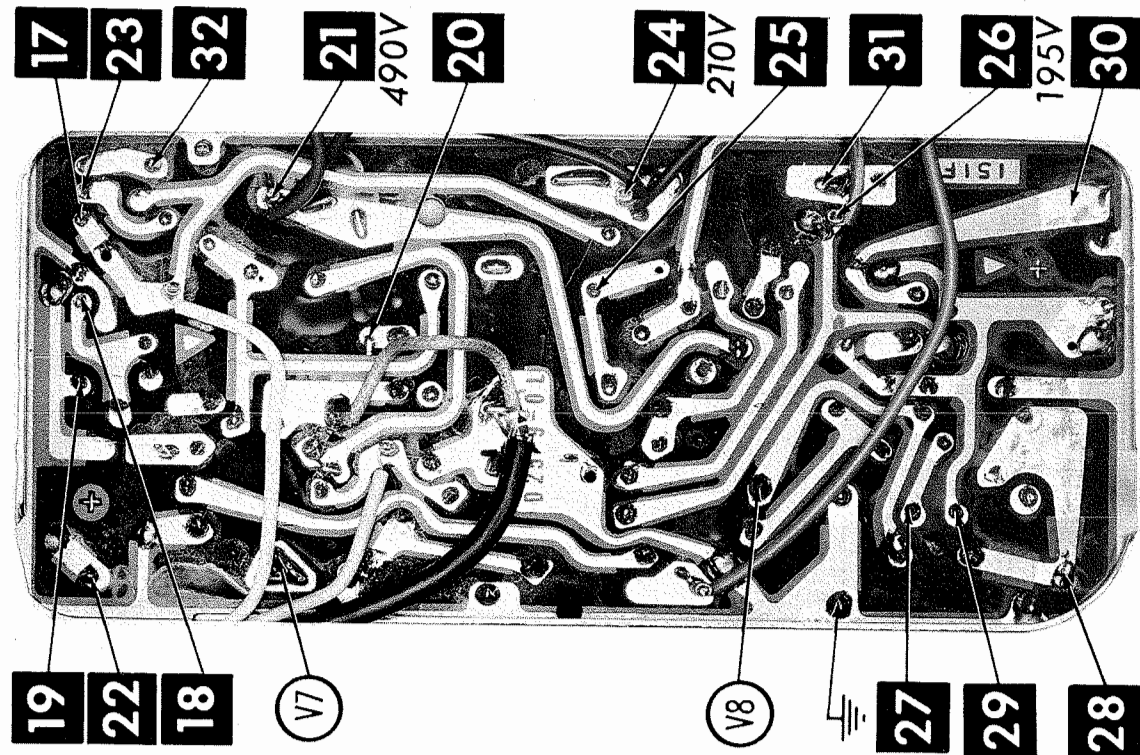


SILVERTONE CHASSIS 456,50340, 341, 342, 343, 528,50340, 341, 342, 343

FOLDER 2



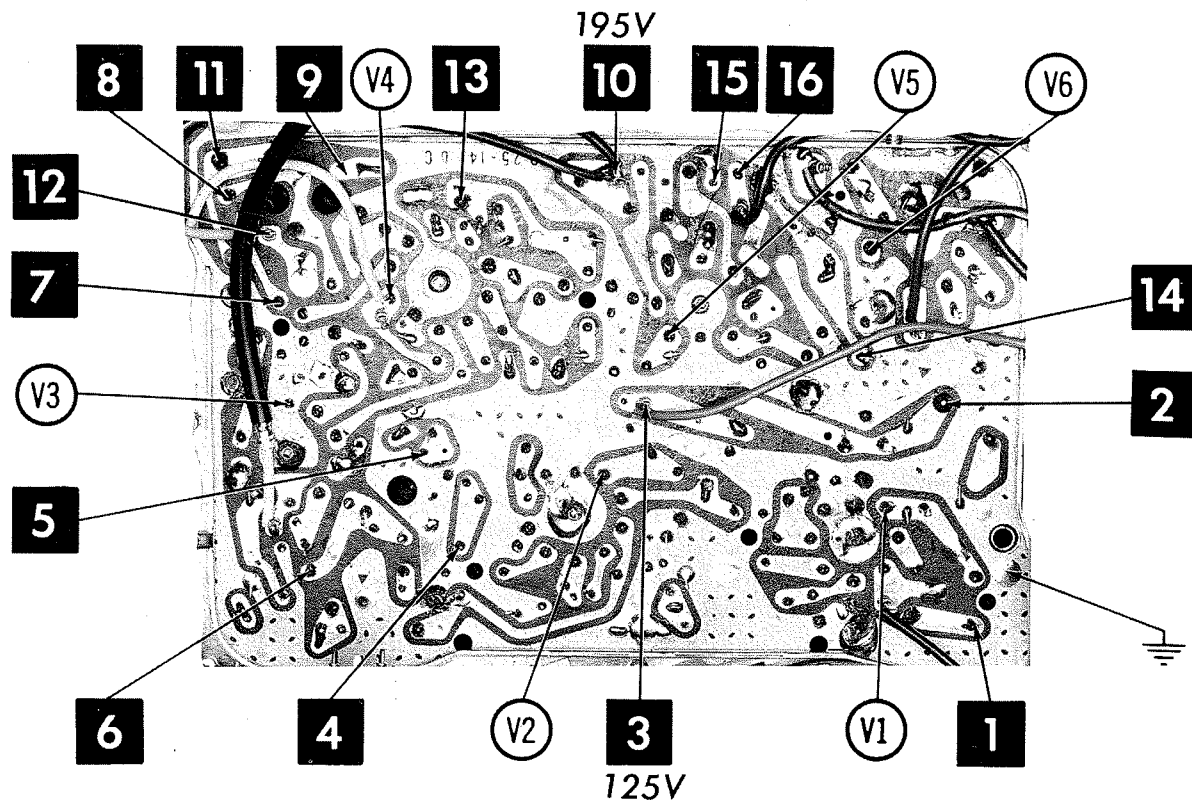
MAIN PRINTED BOARD



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SILVERTONE CHASSIS 456.50340, 341,
342, 343, 528.50340, 341, 342, 343

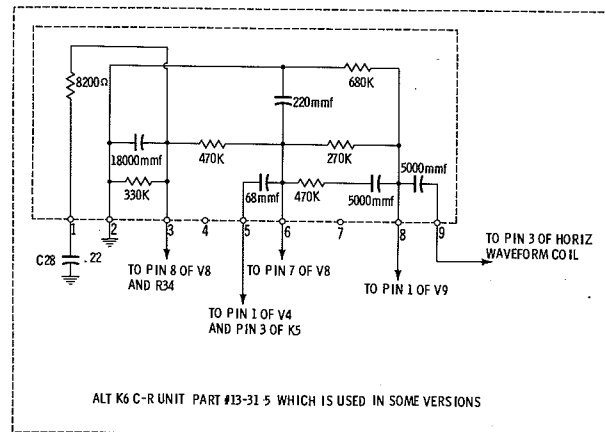
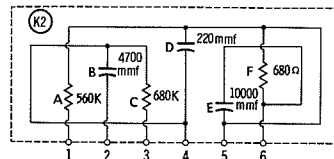
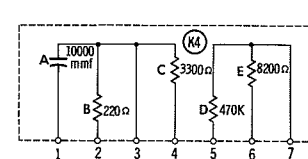
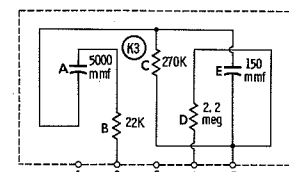
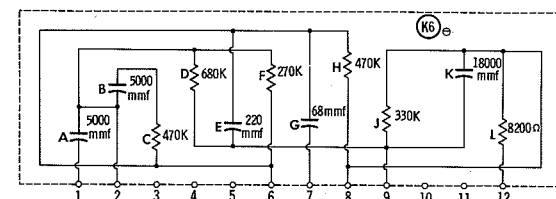
ARROWS INDICATING TUBE LOCATIONS ARE
POINTING TO PIN 1 UNLESS OTHERWISE INDICATED



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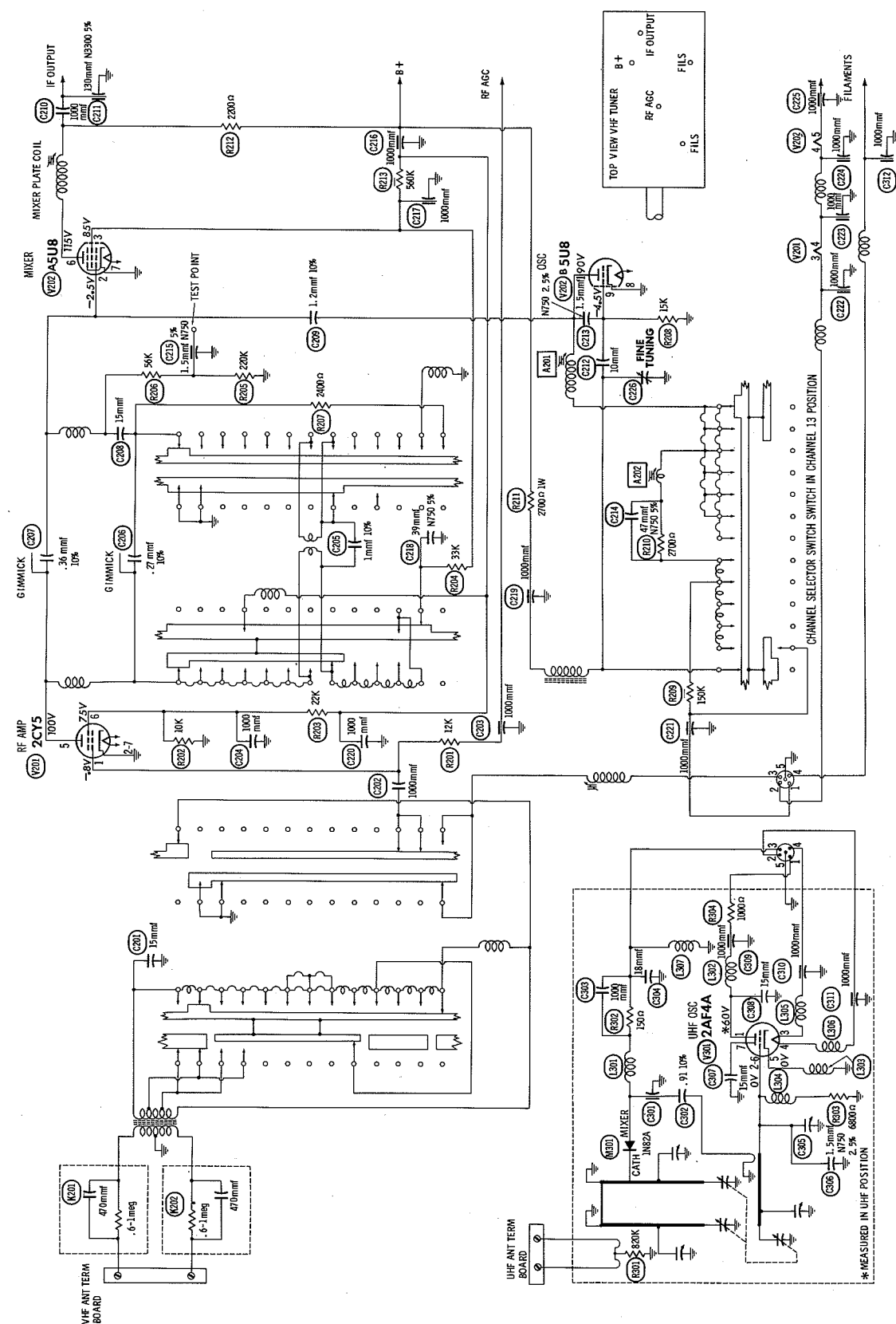
MAIN PRINTED BOARD

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



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COMPONENT COMBINATION LAYOUT



SILVERTONE CHASSIS 456.50340, 341, 342, 343
342, 343, 528.50340, 341, 342, 343
0-281-56 RENUT FHA & 0-981-56 RENUT FHA
UHF-HF Combined 95-182-0
UHF-HF Tuner FHA & 0-81-56 RENUT FHA
UHF-HF Tuner FHA & 0-81-56 RENUT FHA

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FOLDER 2

PARTS LIST AND DESCRIPTIONS (Continued)

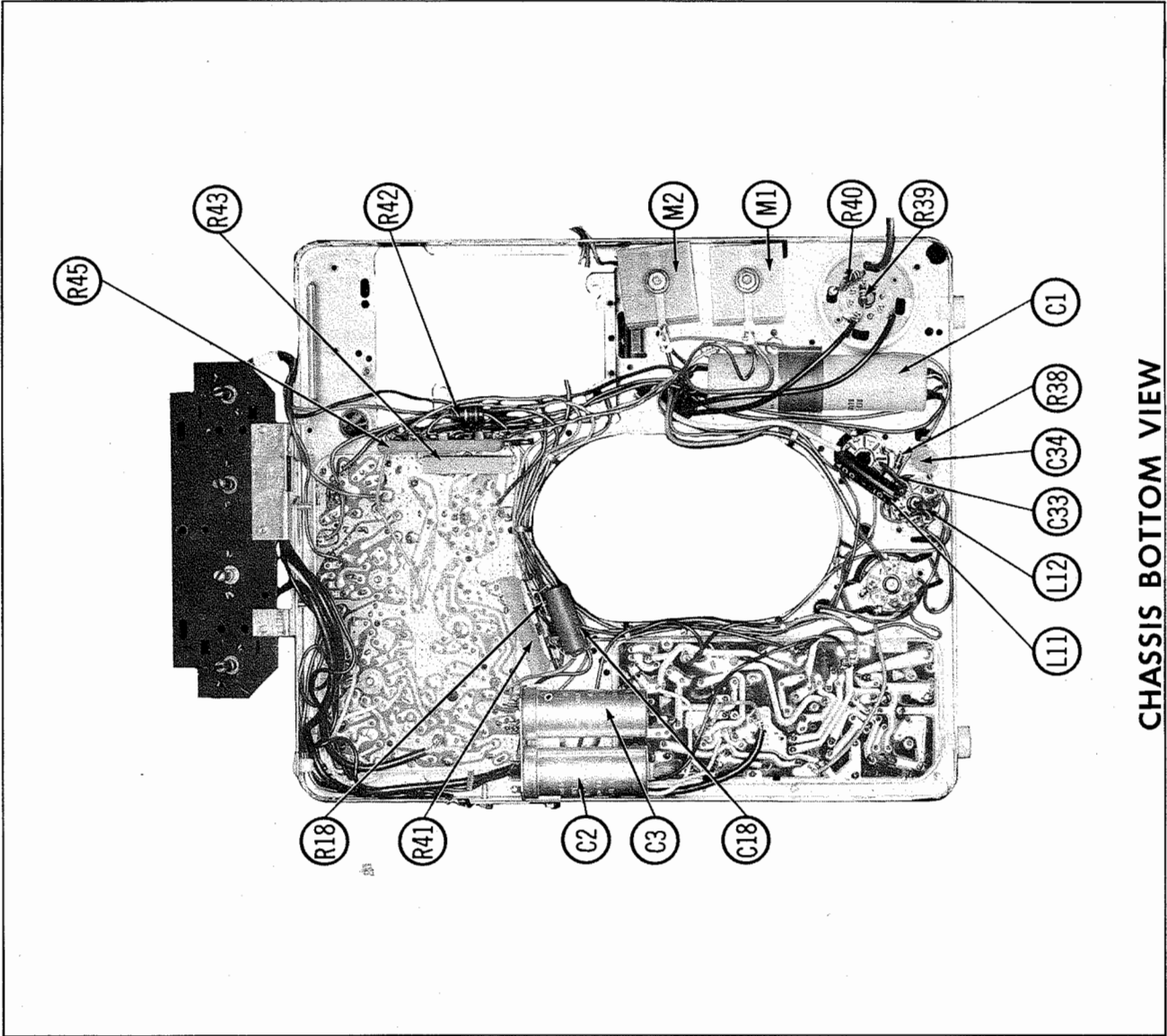
CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Knob	52-861-0	Contrast, Models 102GY, BE, -5GY, -5BE, 100, 100-5, PC-102GY, BE, -102-5GY, -102-5BE, -100, -100-5
Knob	52-862-0	Vertical Hold, Models 102GY, BE, -5GY, -5BE, 100, 100-5, PC-102GY, BE, -102-5GY, -102-5BE, -100, -100-5
Cabinet	42-140-0	Models 110, 110-5, PC-110, -110-5 (Mahogany)
Cabinet	42-141-0	Models 120, 120-5, PC-120, -120-5 (Mahogany)
Cabinet	42-166-0	Models 103, 103-5, PC-103, -103-5
Cabinet	42-157-0	Models 101, 101-5, PC-101, -101-5
Cabinet	42-123-0	Models 100, 100-5, PC-100, -100-5
Cabinet Legs	49-486	Models 120, 120-5, PC-120, -120-5
Handle	49-518	Models 101, 101-5, PC-101, -101-5
Handle	49-186	Models 102GY, BE, -5GY, -5BE, PC-102GY, BE, -5GY, -5BE
Handle	82-165-0	Models 103, 103-5, PC-103, -103-5 (Includes Antenna)

WIRING DATA

High Voltage Lead	Use Belden No. 8869
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 Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use Belden No. 8874
300Ω Tuner Input Lead	Use Belden No. 8225
300Ω Antenna Lead-In	Use Belden No. 8230 or 8275
Antenna Rotor Cable	Use Belden No. 8464 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor



ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS

USE AN ISOLATION TRANSFORMER TO PROTECT THE TEST EQUIPMENT.
The High Voltage lead should be securely taped and kept away from the chassis.
Suggested Alignment Tools: GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440
WALSCO #2526, 2543, 2544, 2545

VIDEO IF ALIGNMENT

Connect the negative lead of a 3 volt bias supply to point A. Positive to chassis.
Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Use only enough sweep generator output to provide a usable pattern on scope.
Short the antenna terminals together but not to chassis.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	High side thru .001mfd to pin 2 (grid) of 2nd Video IF Amp. Low side to chassis.	44.0MC (10MC Swp.)	44.0MC	Any non-interfering channel	Vert. Amp. thru 10K to point B. Low side to chassis. (Across Video Det. load.)	A1	Preset A2 fully counterclockwise. Adjust A1 for maximum gain at 44.0MC as in Fig. 1.
2.	"	"	43.2MC 45.3MC	"	"	A2	Adjust for maximum gain and symmetry of response similar to Fig. 2 with markers as shown.
3.	High side thru .001mfd to pin 1 (grid) of 1st Video IF Amp. Low side to chassis.	"	44.0MC	"	"	A3	Preset A4 fully counterclockwise. Adjust A3 for maximum gain at 44.0MC.
4.	"	"	43.6MC 45.0MC	"	"	A4	Adjust for maximum gain and symmetry of response similar to Fig. 3 with markers as shown. If necessary, repeat step 1 thru 4 for desired response.
5.	Place a thin insulated metal strip between the Mixer-Osc. tube and tube shield. Connect the high side of sweep generator to the metal strip. Low side to chassis.	"	44.25MC	"	"	Mixer Plate Coil	Detune A5 by turning slug out. Adjust Mixer Plate Coil for maximum gain at 44.25MC.
6.	"	"	42.75MC 43.6MC 45.0MC 45.75MC	"	"	A5	Adjust for maximum gain and symmetry of response similar to Fig. 4 with markers as shown. Retouch Mixer Plate Coil and A5 until desired response is obtained.

SOUND IF ALIGNMENT

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
7.	High side thru .05mfd to point B. Low side to chassis. (.1V output.)	4.5MC (400% FM 15KC swp.)	Any non-interfering channel	AC probe to point C. Common to chassis.	A6, A7	Adjust for maximum deflection. If two peaks are found, use the greater peak.
8.	Change output to 500 microvolts.	"	"	"	A8, A9	Adjust for maximum deflection. Retouch A7 for maximum deflection.

4.5MC TRAP ALIGNMENT

Tune in a strong TV signal and set Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible. Adjust A10 for MINIMUM beat interference.

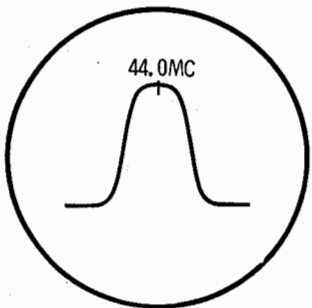


FIG.1

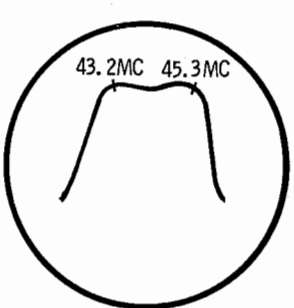


FIG.2

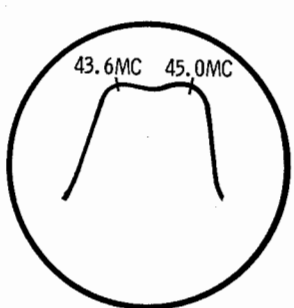


FIG.3

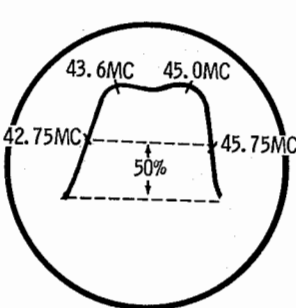


FIG.4

SILVERTONE CHASSIS 456.50340, 341, 342, 343, 528.50340, 341, 342, 343

FOLDER 2

PARTS LIST AND DESCRIPTIONS

RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R7	1meg		R20	100K		R33	33K 1W	
R8	6800Ω		R21	1500Ω		R34	150K 1W	
R9	330Ω		R22	10K 1W		R35	8200Ω	
R10	47Ω		R23	100K		R36	6800Ω 2W	
R11	15K		R24	180Ω 1W		R37	47Ω 1W	Note 1
R12	1000Ω		R25	680K		R38	820Ω	
R13	220Ω		R26	1.5meg		R39	3.9Ω	
R14	5600Ω		R27	180K		R40	4700Ω	
R15	1meg		R28	2.2meg		R41	4.5Ω 10W	#61-115-0
R16	3500Ω 4W	#61-13-1	R29	100K 1W		R42	560Ω 2W	
R17	2200Ω		R30	580Ω	Note 1	R43	1600Ω 10W	#61-135-0
R18	220K		R31	580Ω	Note 1	R44	60Ω 25W	#61-117-0
R19	180K		R32	470Ω 1W		R45	200Ω 15W	#61-41-0

Silvertone Part Number.

Note 1. Value may vary; Replace with same value as original.

COILS (RF-IF)

ITEM No.	USE	SILVERTONE PART No.	Gromer PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	Ram PART No.	NOTES
L1	1st Video IF	10-26-3	20-1044	20-1044	TV-131	6228		
L2	2nd Video IF	10-27-3						
L3	3rd Video IF	10-119-2						
L4	RF Choke	10-65-1				4612		
L5	Series Peaking Coil	10-64-1				6110		
L6A	4.5MC Trap	10-152-1	19-3060	19-3060	TV-183			
L6B	1st Sound IF							
L7	Series Peaking Coil	10-66-1 †	19-3250 †	19-3250 †	TV-198 †	6130 †	VP-6 †	270uh ①
L8	Shunt Peaking Coil	10-66-1 *	19-3250	19-3250	TV-198	6130	VP-6	269uh
L9	2nd Sound IF	10-23-3						
L10	Quadrature Coil	10-25-5						
L11	RF Coil	10-136-1	19-1002	19-1002	SW-630	4606		2.5uh
L12	RF Coil	10-64-1	19-3060	19-3060	TV-193	6110		60uh
L13	Fl. Choke	10-156-1						
L14	Fl. Choke	10-156-1						
L15	Line Choke	10-148-1	19-3036	19-3036	TV-180	6176	VP-1	40uh
L16	Line Choke	10-148-1	19-3036	19-3036	TV-180	6176	VP-1	40uh

① Wound on 15K Resistor.

† Alternate Part #10-150-1.

* Alternate Part #10-147-1.

▲ Parallel with 15K Resistor.

TRANSFORMER (HORIZ. OSC.)

ITEM No.	DC RES.	SILVERTONE PART No.	Holldorson PART No.	Merit PART No.	Miller PART No.	Ram PART No.	Thordarson PART No.	NOTES
	PRI. SEC.							
L17A	8Ω	10-28-5						Horiz. Osc., Tap @ 22Ω
B	50Ω							Horiz. Waveform

TRANSFORMERS (SWEEP CIRCUITS)

ITEM No.	USE	SILVERTONE PART No.	Holldorson PART No.	Merit PART No.	Ram PART No.	Rogers PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
T1	Vert. Output	80-1-2							
T2	Yoke-Horiz. (21MH) (90°)-Vert. (40MH) Rear Cover and Centering Device	80-5-4	Y-16 ③④	A-2824 ①	V315 ①	Y90F19/43 ③④	PCM2045 ③④	VO-101 ②	A-136X Y-43 & NW-1 ⑤
	Alt. Centering Device	83-936		MDF-92 ③④				DY-16A ③④	YC-1 & CL-1
T3	Yoke Clamp.	83-1034							
	Horiz. Output	22-2-3	FLY-168 *	HVO-146 *				FLY-168 *	D-161 *
		80-1-3							

① Cut and tape blanking lead.

② Drill new mounting holes

③ Mount with leads out bottom. Jumper yoke #6 to yoke #3. Connect yoke #1 to plug #7; yoke #2 and #7 to plug #2; yoke #6 and #3 to plug #5; yoke #4 to plug #3.

④ Use original horiz. yoke damping network if necessary.

⑤ Connect same as original.

* HORIZONTAL OUTPUT TRANSFORMER CONNECTION DATA

Use Original Width Coil Unless Replacement Type Is Listed

	ORIGINAL TERMINAL CONNECTIONS	Holldorson Replacement Connections	Merit Replacement Connections	Ram Replacement Connections	Rogers Replacement Connections	Stancor Replacement Connections	Thordarson Replacement Connections	Triad Replacement Connections
	4	5	4				5	5
	3	4	3				4	4
	2	3	2				3	3
	1	1	1				1	1

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	SILVERTONE PART No.	Holldorson PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	NOTES
	PRI. SEC.								
T4	4900Ω 3-4Ω	B80-21-1D ①	24S48	A-3026	AU-801	A-3877	24S48	S-6X	

① Alternate Part #80-21-1

TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	1st Video IF Amp.	3CB6	V6	Audio Output	5AQ5
V2	2nd Video IF Amp. - Video Detector	5AM8	V7	Vert. Mult. - Vert. Output	6CM7
V3	Video Output - Sync Sep.	6BH8	V8	Horiz. AFC - Horiz. Osc.	6CG7
V4	Sound IF Amp. - Sync Amp.	5U8	V9	Horiz. Output	12AV6/GA
V5	Audio Detector	3DT6	V10	Damper	12AX4GTA
			V11	HV Rect.	1B3GT/1G3GT (1G3GT)*

* Alternate

PICTURE TUBE

ITEM No.	SILVERTONE PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	NOTES
V12	21CBP4A † 17BP4 17CFP4 * 21ATP4B	21CBP4A ① 17CFP4 ① 21ATP4A/21ATP4 ①	21CBP4-A ① 17BP4 ① 17CFP4 ①	21CBP4/21CBP4A ① 17BP4 ① 17CFP4 ① 21ATP4/21ATP4A ①	21CBP4/21CBP4A ② 17BP4 ② 17CFP4 ② 21ATP4/21ATP4A ②	① Aluminized ② Silver Screen "85"

† Models 110, 110-5, 120, 120-5.

* Models 100, 100-5, 101, 101-S, 102BE, 102GY, 102-5BE, 102-5GY.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	SILVERTONE PART No.	AEROVOX PART No.	CORNELL-DUBIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES
	CAP. VOLT.							
C1A	120 150	18-50-5	PR2-060	BR15015	TC549	TD-150-150	TVAS-2465 *	
B	120 150			BR15015		TD-150-150		
C2A	40 300	18-54-3	AFH3-28-30	XB0254	FP227.3		TVLS-2674 *	①
B	20 300							
C3A	20 300	18-52-3	AFH3-138	BO400	FP366	TMD-29	TVLS-3751.2 *	①
B	20 300			BR505		TD-50-50		
C	50 50							
C4	20 350	18-76-5	PR51735	BR2035	TC65	TD-20-350	TVA-1608	

① Some versions may use 5 section (Part #18-23-2), 40-20-20-20 @ 300V & 20 @ 50V for C2 and C3.

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

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	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBIER PART No.	ELMENC0 PART No.	MALLORY PART No.	SPRAGUE PART No.
C5	2000		BPD-002	DD-202	BYA10D1	CCD-202	GP220	5HK-D20
C6	1000 10%		DI-1000	DD-102	PM6D1	CCD-102	GP210	10TS-D10
C7	5000		BPD-005	DD-502	BYA10D5	CCD-502	GP260	5HK-D50
C8	1000 10%		DI-1000	DD-102	PM6D1	CCD-102	GP210	10TS-D10
C9	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10
C10	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C11	10		NPO-SI 10	TCZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C12	.22 200V		P4181N-22		BC2P22J	2DP-4-224	GEM-2022	4SE-P22
C13	.047 400V		P4181N-047	DD-503	BC6S47J	4DP-3-473	ACE6147	4SE-S47
C14	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10
C15	33 N150					*		10TCP-Q33
C16	33 N150					*		10TCP-Q33
C17	.047 400V		P488N-047	DD-503	CUB6S47	4DP-3-473	GEM-4147	4TM-S47
C18	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P1
C19	2000		BPD-002	DD-202	BYA10D2	CCD-202	GP220	5HK-D10
C20	8.2 N750				C10V82U			10TCC-V82
C21	10000		BPD-01	DD-103	BYA10S1	CCD-103	GP110	5HK-S10
C22	.047 400V		P4151N-047	DD-503	BC6S47J	4DP-3-473	ACE6147	4SE-S47
C23	5000 2000V				HVC20D5	3CCD-502	2HV-247	BL-D50
C24	.0068 600V 10%		V84C6D68-10%	DD30-502	PM6D68	6DP-1-682	GEM-16268	6TM-D68
C25	.056 400V 10%		P684CM-D57			6DP-563		
C26	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P1
C27	.01 1000V 10%					16DP-3-103	GEM-1611	10TM-S1
C28	.22 200V		P288N-22		CUB2P22	2DP-4-224	GEM-2022	2TM-P22
C29	390 10%		1469-00039		5R5739	CM-19B-391K	MCB243	MS-339
C30	.01 600V		P688N-01	D6-103	CUB6SL	6DP-2-103	GEM-611	6TM-S1
C31	1000 5%		1469-001		1R5D1	CM-19B-102J	MCJ255	MS-21
C32	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C33	270 2000V N1500 10%	#15-27316 ①						
C34	170 2000V N1500 10%	#15-17316 ①						
C35	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10
C36	10000		BPD-01	DD-103	BYA10S1	CCD-103	GP110	5HK-S10
C37	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10
C38	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10
C39	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10
C40	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10

① Values may vary. Replace with original value.

Silvertone Part Number.

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

CONTROLS

ITEM No.	RATING	SILVERTONE PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	INSTALLATION NOTES
	RESISTANCE WATTS						
R1A	1meg	24-304-0	B-70-S	A47-Imeg-Z	Q13-137	TA18A	Volume
B	Shaft		Not Req.	KSS-3	Not Req.	Not Req.	
C	Switch		Not Req.	SWE-12	US-26	TA52L	Power Off-On
R2A	500Ω	24-78-1	B-4	A47-500-S	Q11-103	Not Req.	Contrast
B	Shaft		Not Req.	KSS-3	Not Req.		
R3A	4meg	24-264-1	B-86	A47-4meg-S	B11-240	RU46L	Brightness
B	Shaft		Not Req.	KSS-3	Not Req.	SL3500	
C	Bushing		Not Req.	Not Req.	Not Req.	SL38	
R4A	1meg	24-113-1	B-69	A47-Imeg-S	Q11-137	TA16L	Vert. Hold
B	Shaft		Not Req.	KSS-3	Not Req.	Not Req.	
R5	3.4meg	24-140-1					Height
R6	3500Ω 2(WW)	24-153-1					Vert. Linearity

* Use 680Ω resistor in series with terminal.

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				SILVERTONE PART No.	QUAM PART No.	
	SIZE	FIELD	V. C. IMP.			
SP1	4"	PM	3-4Ω	33-288-4	4A07	Models PC-100, PC-100-5, PC-110, PC-110-5, PC-120, PC-120-5, 100, 100-5, 110, 110-5, 120, 120-5
	4"	PM	3-4Ω	33-428-4		Models 101, 101-5, 103, 103-5, PC101, PC-101-5, PC-103, PC-103-5
	4"	PM	3-4Ω	33-367-4		Includes Bracket, Models 102BE, 102GY, 102-5BE, 102-5GY, PC-102BE, PC-102GY, PC-102-5BE, PC-102-5GY

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	SILVERTONE PART No.	REPLACEMENT DATA
K1	Sound IF Screen	4700mmf, 68K	13-21-3	
K2	Audio Coupling	220mmf, 4700mmf, 10000mmf, 680Ω, 580K, 680K	13-22-5	
K3	Sync Sep. Grid	150mmf, 5000mmf, 22K, 270K, 2.2meg	13-9-5	
K4	Sync Amp. Cathode	10000mmf, 220Ω, 3300Ω, 8200Ω, 470K	13-21-5	Sprague PRC-6
K5	Vert. Integrator & Picture Tube Grid	2000mmf, 9000mmf, 9000mmf, 9000mmf, 12K, 22K, 22K, 33K, 56K, 56K	13-23-3	Sprague V-24
K6	Horiz. AFC & Osc.	68mmf, 220mmf, 5000mmf, 5000mmf, 10000mmf, 8200Ω, 270K, 330K, 470K, 470K, 680K	13-25-5D *	
K7	Isolation	1000mmf (1000VAC), 4.7meg	13-17-3	

* Alternate Part #13-25-5 or 13-39-3.

RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA					NOTES
	CURRENT (Measured)	SILVERTONE PART No.	INTERNATIONAL PART No.	ITT PART No.	SARKES TARZIAN PART No.	SYLVANIA PART No.	
M1	.240A	86-9-3 *	T350 *	1241AH *	350A *	SR500 †	* Selenium Type
M2	.240A	86-9-3 *	T350 *	1241AH *	350A *	SR500 †	† Silicon Type