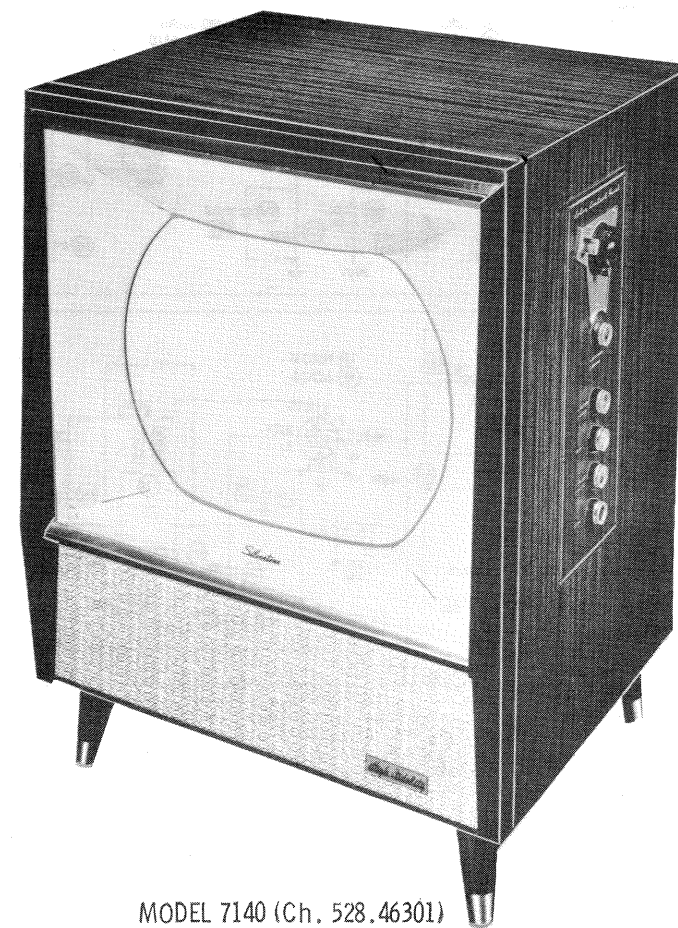




SILVERTONE MODELS 7138, 7140, 7142 (Ch. 528.46300, 528.46301)



MODEL 7140 (Ch. 528.46301)

SILVERTONE MODELS 7138, 7140, 7142 (Ch. 528.46300, 528.46301)

TRADE NAME	Silvertone	MODELS	CHASSIS
		7140, 7142 .....	528.46300
		7138, 7140, 7142 .....	528.46301
SUPPLIER	Sears, Roebuck & Co., 925 S. Homan Ave., Chicago, Illinois		
TYPE SET	Color Television Receiver		
TUBES	Twenty-six		
POWER SUPPLY	110-120 Volts AC, 60 Cycle	RATING	315 Watts, 3.1 Amp. @ 117 Volts AC
TUNING RANGE	Channels 2 thru 13 VHF, Video IF 45.75MC, Sound IF 41.25MC (Intercarrier)		

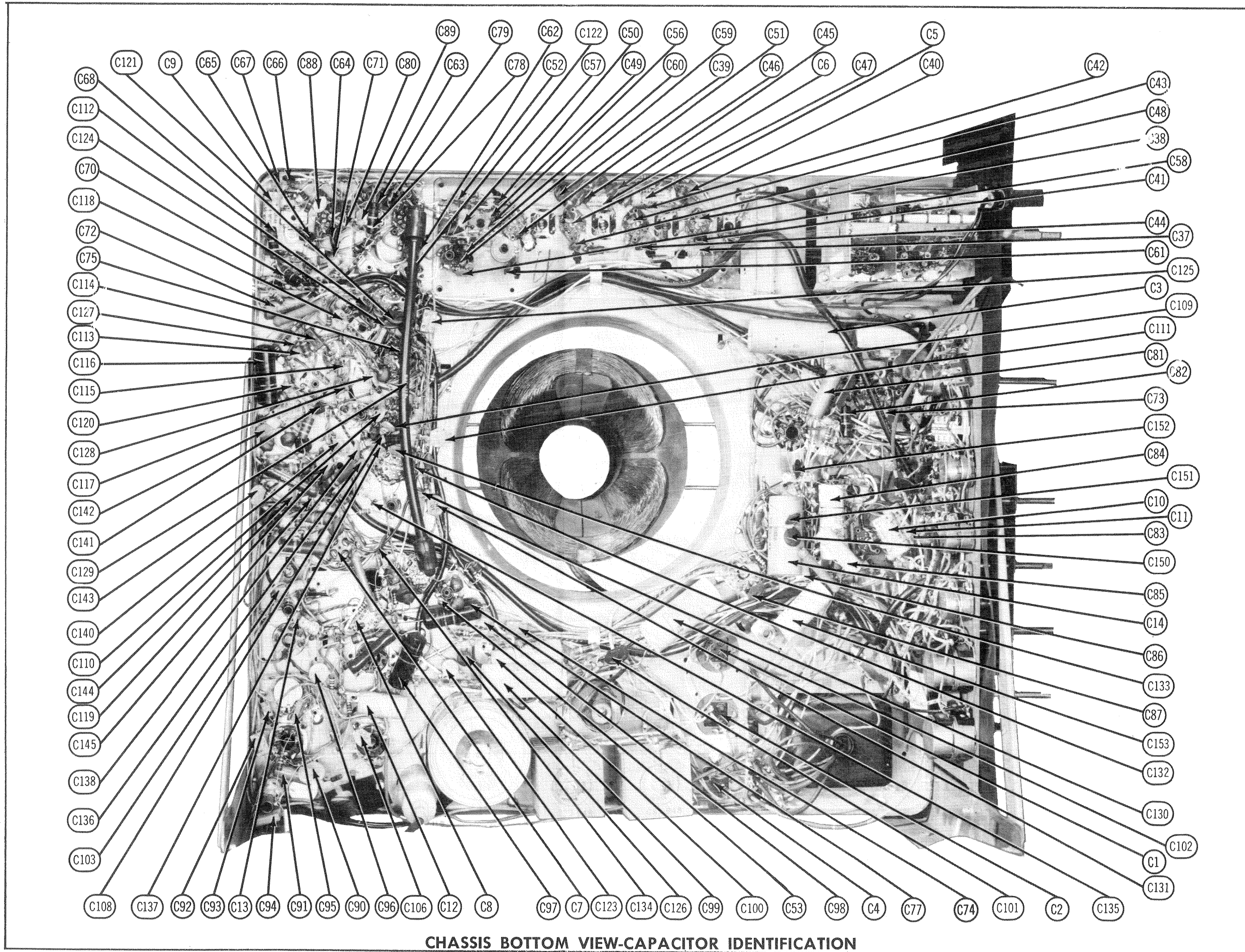
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HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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 H168

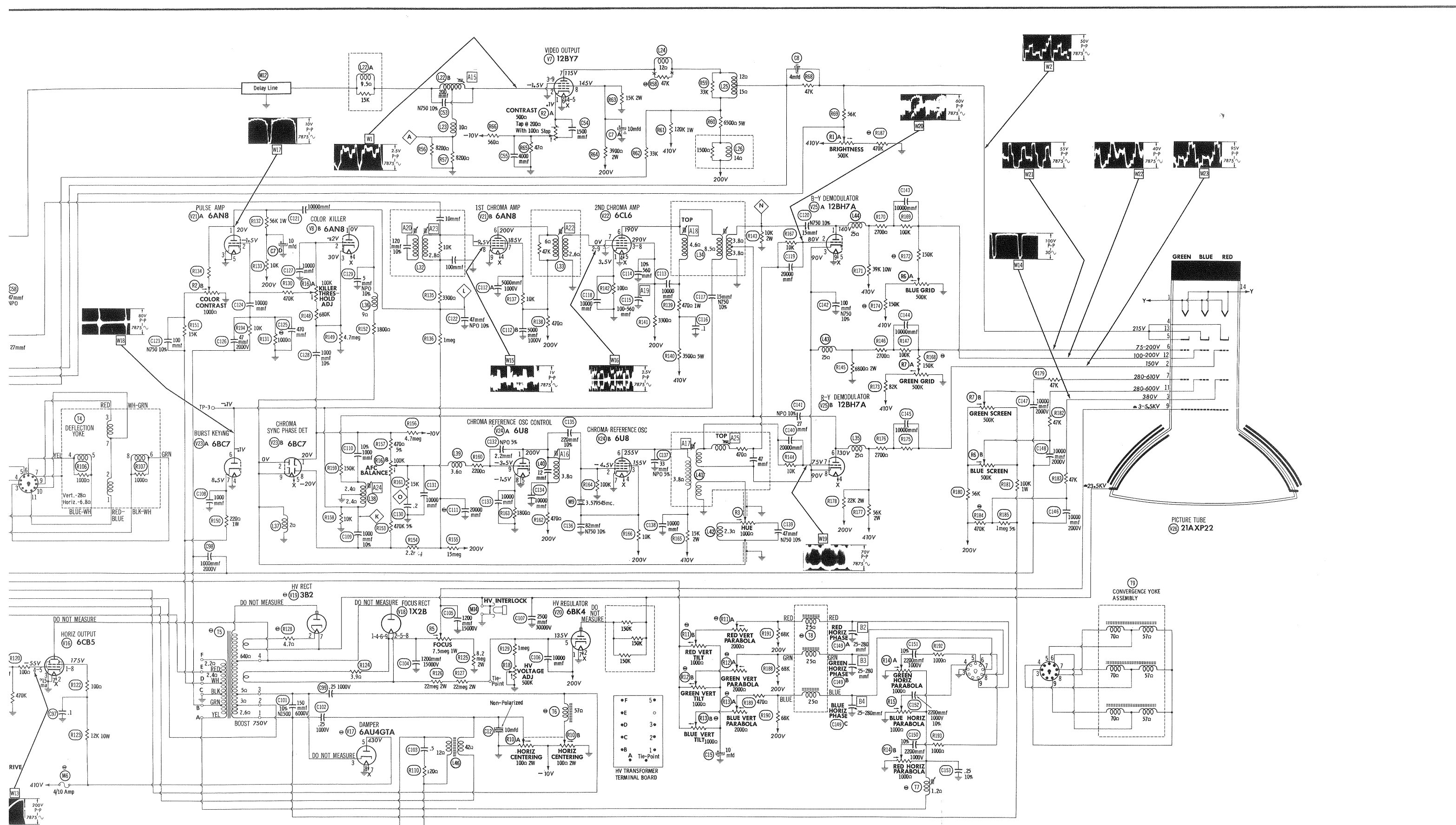
the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1958 Howard W. Sams & Co., Inc., Indianapolis 5, Indiana. Printed in U.S. of America



CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION

FOLDER 1



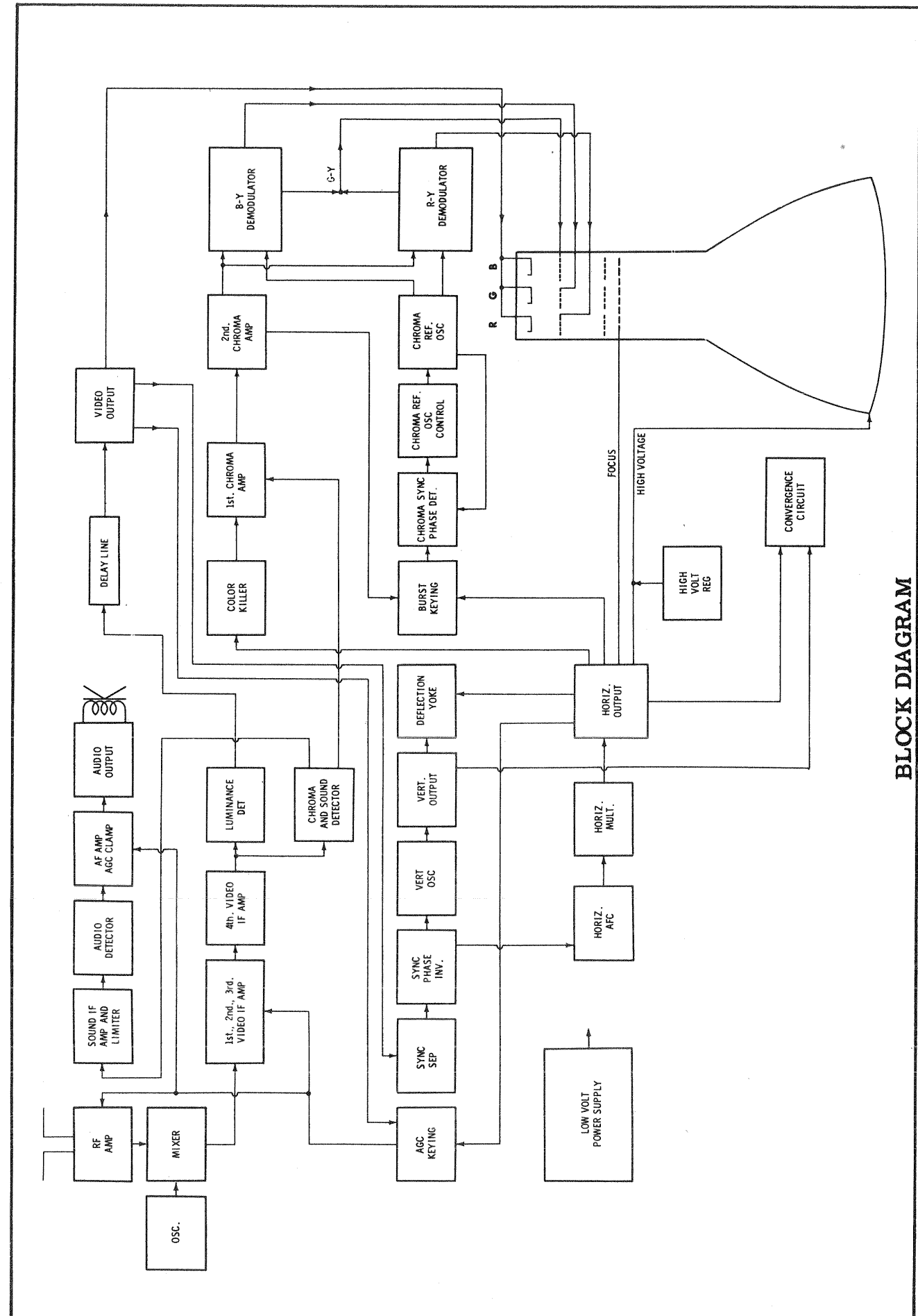


SILVERTONE MODELS 7138, 7140, 7142 (Ch. 528.46300, 528.46301)

### RESISTANCE MEASUREMENTS

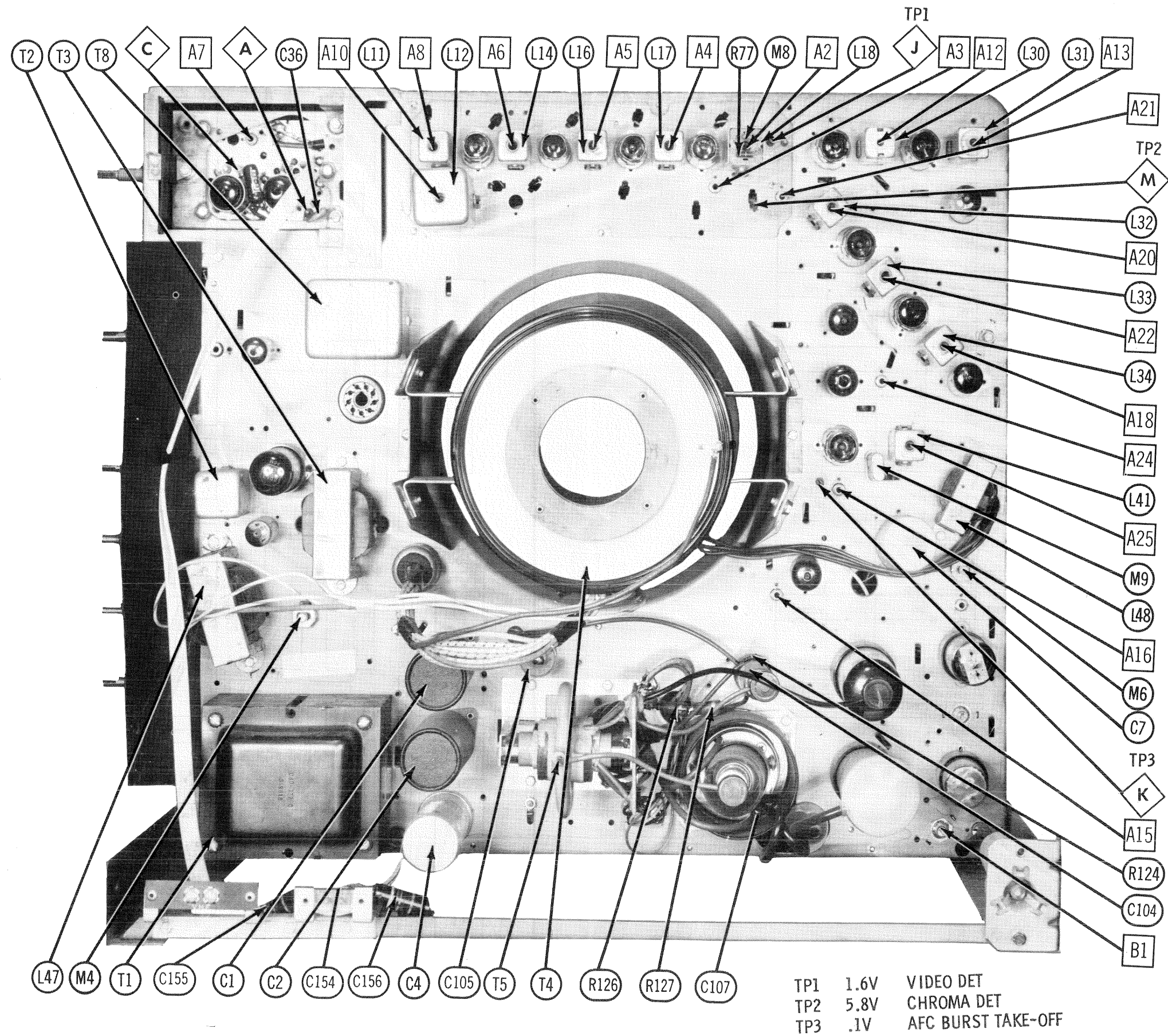
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BS8	†6500Ω	450K	1NF	0Ω	.1Ω	1NF	1.6meg	0Ω	0Ω
V2	6BR8	15K	†16K	0Ω	0Ω	.1Ω	†13K	†11K	0Ω	220K
V3	6DC6	95K	47Ω	0Ω	.1Ω	†2700Ω	†2700Ω	0Ω		
V4	6DC6	95K	47Ω	0Ω	.1Ω	†2700Ω	†2700Ω	0Ω		
V5	6DC6	47K	47Ω	0Ω	.1Ω	†2700Ω	†2700Ω	0Ω		
V6	6AH6	.2Ω	0Ω	0Ω	.1Ω	†490Ω	†15K	150Ω		
V7	12BY7	•80Ω	8200Ω	0Ω	.1Ω	.1Ω	0Ω	†5500Ω	†3200Ω	0Ω
V8	6AN8	1800Ω	5.5meg	4.7meg	.1Ω	0Ω	550K	†10K	†62K	†4700Ω
V9	6U8	†50K	470K	†10K	0Ω	.1Ω	†10K	82Ω	0Ω	2.7meg
V10	6U8	†3300Ω	100K	†19K	0Ω	.1Ω	†1000Ω	0Ω	2700Ω	†1meg
V11	6T8	1NF	15K	1NF	0Ω	.1Ω	1.4meg	0Ω	10meg	†47K
V12	6AQ5	47K	0Ω	0Ω	.1Ω	†260Ω	†0Ω	47K		
V13	6C4	•†1.8meg	NC	.1Ω	0Ω	•†1.8meg	•1meg	180Ω		
V14	6BL7GT	2.2meg	†400Ω	•680Ω	2.2meg	†400Ω	•680Ω	.1Ω	0Ω	
V15	6SN7GTA	5.2meg	†6100Ω	1800Ω	100K	†120K	1800Ω	0Ω	.1Ω	
V16	6CB5	†12K	.1Ω	0Ω	470K	470K	0Ω	0Ω	†12K	TOP CAP ††5Ω
V17	6AU4GTA	NC	NC	†	NC	†0Ω	NC	.1Ω	0Ω	
V18	1X2B	NC	11meg	NC	NC	NC	NC	11meg	NC	11meg TOP CAP ††5Ω
V19	3B2		PINS 1 THRU 8	HAVE	INFINITE	RESISTANCE				TOP CAP ††645Ω
V20	6BK4	†0Ω	.1Ω	NC	NC	•1.1meg	NC	0Ω	NC	TOP CAP INF
V21	6AN8	†13K	5.8meg	0Ω	.1Ω	0Ω	†470Ω	†10K	6meg	0Ω
V22	6CL6	100Ω	2.6Ω	†3300Ω	0Ω	.1Ω	†3900Ω	0Ω	†3300Ω	2.6Ω
V23	6BC7	4.7meg	2Ω	0Ω	0Ω	.1Ω	2.4Ω	200Ω	5meg	2Ω
V24	6U8	†470Ω	100K	†10K	.1Ω	0Ω	†15K	0Ω	1800Ω	5.2meg
V25	12BH7A	†35K	17K	6800Ω	.1Ω	.1Ω	†28K	17K	6800Ω	0Ω
V26	21AXP22	1NF	†110K	†410K	†40K	†40K	•†75K	•†250K	NC	•10meg
		PIN 10 NC	PIN 11 •†260K	PIN 12 •†85K	PIN 13 †40K	PIN 14 1NF				

† THIS READING CAN VARY GREATLY, (10K MINIMUM), DUE TO THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.  
 • THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.  
 † MEASURED FROM 200V SOURCE.  
 †† MEASURED FROM PIN 3 OF V17.  
 ‡ MEASURED FROM 410V SOURCE.  
 NC NO CONNECTION.



SILVERTONE MODELS 7138, 7140, 7142  
 (Ch. 528.46300, 528.46301)  
 MAGNIFIED SCOTCH

FOLDER 1

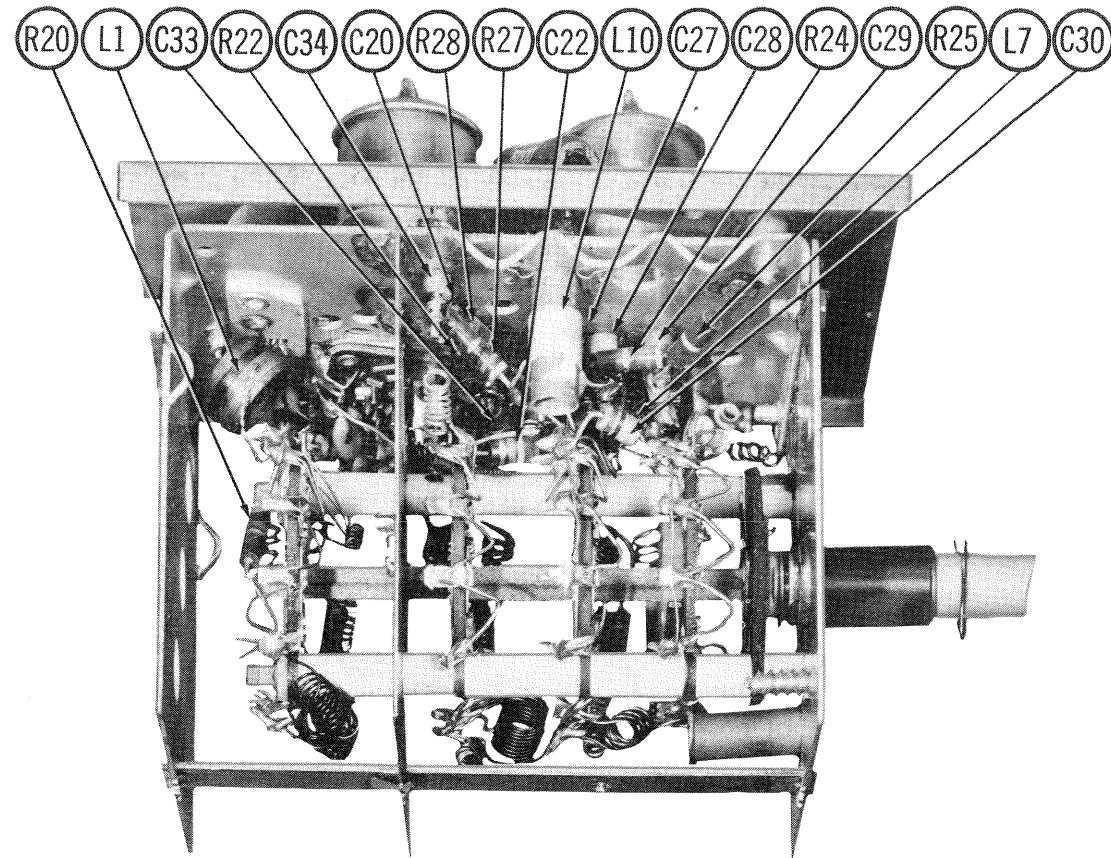


CHASSIS TOP VIEW

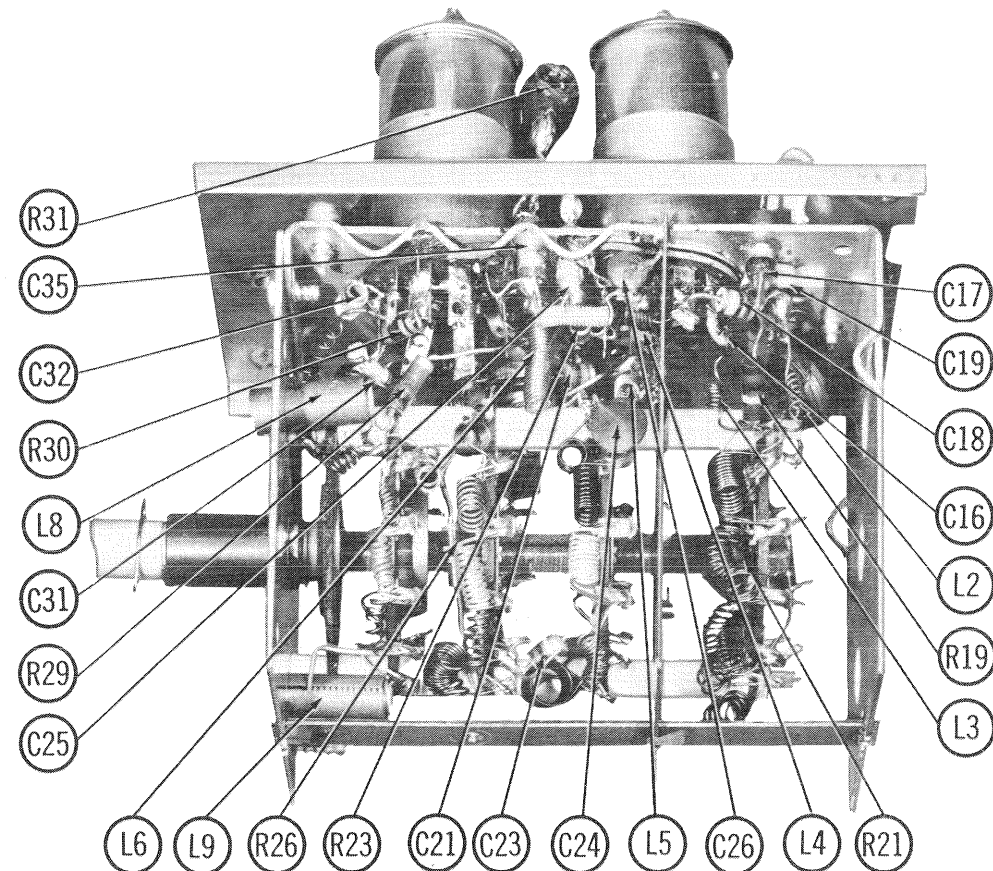
SILVERTONE MODELS 7138, 7140, 7142  
 (Ch. 528.46300, 528.46301)

FOLDER 1

## MISCELLANEOUS ADJUSTMENTS



RF TUNER-LEFT SIDE



RF TUNER-RIGHT SIDE

### HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Before making this adjustment, make sure that the line voltage applied to the receiver is 117 volts. Set the horizontal hold control to the center of its range and adjust horizontal frequency slug (B1) until the picture synchronizes horizontally. Adjust the horizontal drive control (R17) until drive lines appear (vertical white lines near the center of the raster) in the picture, and back drive off until the drive lines disappear. Connect the high voltage probe of a VTVM to the high voltage anode of the picture tube. Turn the contrast and brightness controls fully counter clockwise. Adjust the high voltage control (R18) for 3KV less than the maximum obtainable. **WARNING:** The high voltage in a color receiver is lethal; extreme caution must be used in measuring same.

### PURITY ADJUSTMENTS

Adjust height and vertical linearity controls for a full scan and proper linearity. Check for correct positioning of the convergence yoke assembly, purity magnet and the blue lateral positioning magnet. Connect a dot generator to the antenna terminals and tune receiver and dot generator to the same channel used. Turn all dynamic convergence controls with the exception of the horizontal phase trimmers fully counter clockwise.

STEP	ADJUST	REMARKS
1.	Red, green and blue convergence magnets and blue lateral magnet.	Adjust for converged dot in the center of screen. Turn dot generator off.
2.	All screen and grid controls.	Turn fully counter clockwise.
3.	Contrast control.	Turn fully counter clockwise.
4.	Brightness control.	Turn clockwise until red raster can be seen.
5.	Focus control.	Adjust for proper focus.
6.	Purity magnet.	Adjust to place red tabs together.
7.	Field equalizing magnets.	Pull all eight magnets away from picture tube as far as possible.
8.	Deflection yoke.	Adjust to best location for best overall red purity of raster. DO NOT tilt yoke.
9.	Purity magnet.	Rotate either or both red tabs on the purity magnet until the center of the raster has good purity with any contamination located near the edges only. If necessary, repeat steps 8 and 9.
10.	Field Equalizing magnets.	Adjust field equalizing magnets to get an overall perfect red raster. If it is impossible to obtain good purity, degaussing may be necessary.
11.	Blue and green grid and screen controls.	Adjust for nearly white raster.
12.	Equalizing magnets.	Retouch, if necessary, where needed for best white raster.
13.	Turn on dot generator and reconverge dots at center of screen as in step 1.	

### VERTICAL CONVERGENCE ADJUSTMENTS

STEP	ADJUST	REMARKS
1.	Blue grid and screen controls.	Turn fully counter clockwise.

STEP	ADJUST	REMARKS
2.	Red and green vertical parabola and vertical tilt controls.	Adjust until the center rows of vertical parabola and green dots are vertically straight and parallel to each other.
3.	Red and green convergence magnets.	Adjust to converge center rows of red and green dots to form a row of yellow dots. Repeat steps 2 and 3, if necessary.
4.	Blue grid and screen controls.	Turn clockwise until blue dots are equal in intensity to the yellow dots.
5.	Blue vertical parabola and vertical tilt controls.	Adjust until the center vertical row of blue dots are parallel with the center row of yellow dots.
6.	Blue convergence and blue lateral positioning magnets.	Adjust to converge center vertical row of blue dots with yellow dots to form a row of white dots.
7.	Repeat step 1.	

### HORIZONTAL CONVERGENCE ADJUSTMENTS

STEP	ADJUST	REMARKS
1.	Red horizontal parabola control.	Turn fully clockwise.
2.	Red horizontal phase (B2).	Adjust so that the point of maximum displacement of the red dots is in the center of screen.
3.	Red horizontal parabola control.	Turn fully counter clockwise.
4.	Green horizontal parabola control.	Turn fully clockwise.
5.	Green horizontal phase (B3).	Adjust so that the point of maximum displacement of green dots is in the center of screen.
6.	Red and green horizontal parabola and phase adjustments.	Retouch until the center row of horizontal red and green dots are straight and parallel.
7.	Red and green convergence magnets.	Adjust to converge center horizontal row of red and green dots to form a row of yellow dots. Repeat steps 6 and 7, if necessary.
8.	Blue grid and screen controls.	Turn clockwise until blue dots are equal in intensity with the yellow dots.
9.	Blue horizontal parabola and phase (B4).	Adjust until center horizontal row of blue dots is parallel with center row of yellow dots.
10.	Blue convergence and blue lateral positioning magnets.	Adjust to converge center horizontal row of dots to form a row of white dots. Repeat all convergence adjustments until optimum results are obtained.

### GRAY SCALE ADJUSTMENTS

1. Tune in a normal black and white picture.
2. Set the blue and green grid controls and the brightness control to the center of their ranges and turn the contrast control fully counter clockwise.
3. Adjust the three screen controls to produce a neutral gray screen.
4. Advance the contrast control and observe the picture. If one or more of the colors should happen to predominate in the low light areas, reduce these colors with the proper screen controls and adjust the proper grid controls for a gray screen. Repeat step 4 as necessary.

SILVERTONE MODELS 7138, 7140,  
7142 (Ch. 528.46300, 528.46301)

FOLDER 1

## ALIGNMENT INSTRUCTIONS

### PRE-ALIGNMENT INSTRUCTIONS

The high voltage lead should be securely taped and kept away from the chassis. Allow a 20 minute warm-up period for the receiver and test equipment.

### 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 a usable pattern on scope. Remove RF Amplifier, 6BS8 (V1).

DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .01mfd	High side to pin 1 (grid) of 6AH6 (V6). Low side to chassis.	44.0MC (10MC Swp)	41.25MC 41.7MC 42.75MC 45.75MC	Any non-interfering channel	Vert. Amp. thru 10K to point $\text{⊕}$ . Low side to chassis.	A1, A2, A3	Adjust A1 for maximum gain at 45.75MC marker and A2 for maximum gain at 42.75MC marker. Adjust A3 to place 41.25MC marker in trap notch as in Fig. 1. If necessary, retouch A1 thru A3 for response similar to Fig. 1.
2. "	High side to pin 1 (grid) of 6DC6 (V3). Low side to chassis.	"	41.25MC 41.7MC 42.5MC 44.0MC 45.0MC 45.75MC	"	"	A4, A5, A6	Disconnect L11 from pin 1 of V3. Connect the negative lead of a 5 volt bias supply to point $\text{⊕}$ . Positive to chassis. Adjust A4 for maximum at 45.0MC. If necessary, retouch A4 thru A6 for response similar to Fig. 2.
3. Two 120 $\Omega$ Carbon Resistors	Across antenna terminals with 120 $\Omega$ in each lead. High side of separator marker generator thru 120 $\Omega$ to point $\text{⊕}$ . Low side to chassis.	Any high unused channel	41.25MC 41.7MC 42.75MC 45.75MC 47.25MC	Any high unused channel	Vert. Amp. to 6DC6 (V3) thru detector network (Fig. 3). Low side to chassis.	A7, A8, A9, A10	Reconnect L11. Replace RF amplifier tube (V1) in its socket. Connect the negative lead of a 2 volt bias supply to point $\text{⊕}$ . Positive to chassis. Connect clip lead from point $\text{⊕}$ to point $\text{⊕}$ . Adjust A7 for maximum gain at 42.75MC marker, A8 for maximum at 45.75MC, A9 to place 47.25MC marker in trap notch and A10 to place 41.25MC marker in other trap notch. If necessary, retouch A8, A9 and A10 for response similar to Fig. 4.
4. "	"	"	"	"	Vert. Amp. thru 10K to point $\text{⊕}$ . Low side to chassis.	"	Check for response similar to Fig. 5. If tilt is present, retouch A6, A5, A7 and A4 to level curve. The 41.25MC trap notch should be examined very carefully to make sure that the two traps form a single point. If not, perform step 5. Otherwise go on to step 6.
5. Direct	High side to ungrounded tube shield floating over mixer-osc. tube (V2). Low side to chassis.	Not used	41.25MC	Any non-interfering channel	USE VTVM. DC probe thru 10K to point $\text{⊕}$ . Common to chassis.	A3, A10	Adjust for MINIMUM deflection on VTVM. DO NOT CHANGE ANY OTHER ADJUSTMENTS. Remove test equipment and bias.
6. .01mfd	High side to point $\text{⊕}$ . Low side to chassis.	3.0MC (6MC Swp)	3.1MC 3.58MC	"	Vert. Amp. to pin 13 (cathode) of picture tube.	"	Response curve should be similar to Fig. 6.

### SOUND IF ALIGNMENT

Connect two matched 100K ( $\pm 1\%$ ) resistors in series from point  $\text{⊕}$  to chassis. The junction of these two resistors is alignment point  $\text{⊕}$  as shown on the schematic. Connect a short clip lead from pin 1 (grid) of 6DC6 (V5) to chassis. Use only enough generator output to provide a usable indication on VTVM.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT VTVM	ADJUST	REMARKS
7. .001mfd	High side to pin 2 (grid) of 6U8 (V9). Low side to chassis.	4.5MC (Unmod)	Any non-interfering channel	DC probe to point $\text{⊕}$ . Common to chassis.	A11, A12, A13	Adjust for maximum deflection.
8. "	"	"	"	DC probe to point $\text{⊕}$ . Common to point $\text{⊕}$ .	A14	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. Remove short from V5. Remove 100K resistors.

### 3.58MC TRAP ALIGNMENT

Remove 6DC6 (V5) from its socket. Connect a 3.58MC signal to point  $\text{⊕}$ . Low side to chassis. Connect the vertical amplifier of the scope thru a low capacity probe to the cathode (Pin 4, 5 or 13) of the picture tube. Adjust A15 for MINIMUM output. Remove the test equipment connections.

## ALIGNMENT INSTRUCTIONS (cont)

### CHROMA AFC ADJUSTMENTS

Be extremely careful when soldering near any crystal because heat will ruin them. Remove the 6DC6 (V5) from its socket.

1. Connect the vertical amplifier of the scope to pin 7 (grid) of the 12BH7 (V25). Low side to chassis.
2. Adjust A16 and A17 for maximum sub-carrier indication on the scope. (30 volts peak to peak MINIMUM).
3. Connect the vertical amplifier of the scope to point  $\text{⊕}$ . Set the horizontal frequency of the scope to 7875 cps.
4. Adjust A18 and A19 alternately for MINIMUM subcarrier on the scope.
5. Move the scope connection to pin 6 (green grid) of the picture tube. Connect a clip lead from point  $\text{⊕}$  to chassis. Remove the 3.58MC crystal (M9) from its socket. Connect the high side of a crystal controlled 4.5MC generator to point  $\text{⊕}$ . Low side to chassis. Misadjust A21 and A22 by turning out of position a few turns. Adjust A20, A21 and A22 in numerical order for MINIMUM indication on scope.
6. Remove the signal generator. Connect the sweep generator thru a 3300 $\Omega$  resistor to point  $\text{⊕}$ . If a separate marker generator is used, connect thru a 120mfd capacitor to the high side of the sweep generator. Connect the vertical amplifier of the scope thru a demodulator probe to point  $\text{⊕}$ . Low side to chassis. Connect a .001mfd capacitor across the probe leads for a cleaner trace. Connect a 4700 $\Omega$  resistor from point  $\text{⊕}$  to chassis. Set the sweep generator for 2.5MC at 5MC sweep. Set marker to 3.1MC. Adjust A22 for maximum amplitude at the 3.1MC marker. Adjust A23 so that 4MC region of curve is the same amplitude as 3.1MC region as in Fig. 7.
7. Reinsert 3.58MC crystal. Remove the short from point  $\text{⊕}$  to chassis. Disconnect sweep and marker generators, demodulator probe and the 4700 $\Omega$  resistor from point  $\text{⊕}$ . Connect the scope thru a low capacity probe to point  $\text{⊕}$ . Low side to chassis. Retouch A18 and A19 for MINIMUM 3.58MC subcarrier on scope.
8. Connect the color bar generator to the antenna terminals and adjust the fine tuning for the proper picture. Connect the vertical amplifier of the scope to point  $\text{⊕}$ . Low side to chassis. Adjust A24 for maximum amplitude.
9. Connect the DC probe of the VTVM to point  $\text{⊕}$ . Common to chassis. Remove the 3.58MC crystal from its socket. Adjust AFC balance control (R16B) for zero deflection on the VTVM. Replace the crystal in its socket.
10. Connect the vertical amplifier of the scope to pin 2 (red grid) of the picture tube. Low side to chassis. Set the "Hue" control (R3) to the center of its range. Set the color contrast control (R2B) at the center of its range or a little below (just before overload begins). It is extremely important that the color contrast control does not overload the set. Retouch A16 until the pattern locks on the scope. Continue adjustment until the VTVM (at point  $\text{⊕}$ ) reads zero.
11. Retouch A24 for proper R-Y waveform similar to that shown in Fig. 8.
12. Move scope connect to pin 12 (blue grid) of picture tube and adjust A25 for proper B-Y waveform similar to that shown in Fig. 8.
13. Turn the color killer threshold control (R16A) fully counter clockwise. Connect DC probe of VTVM to pin 2 (grid) of 6AN8 (V21). Common to chassis. With the chroma reference oscillator locked to the color bar signal, the voltage should read between -15 and -25 volts. With no signal applied, the voltage should read approximately -2 volts.

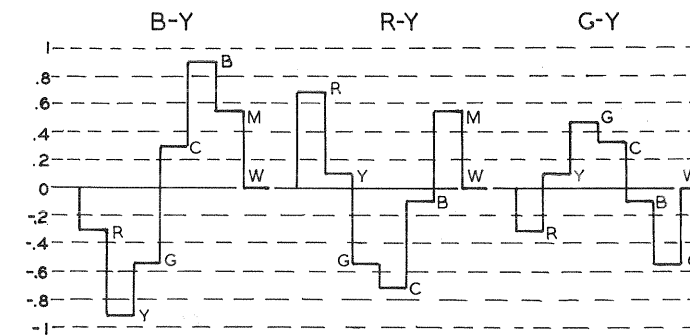
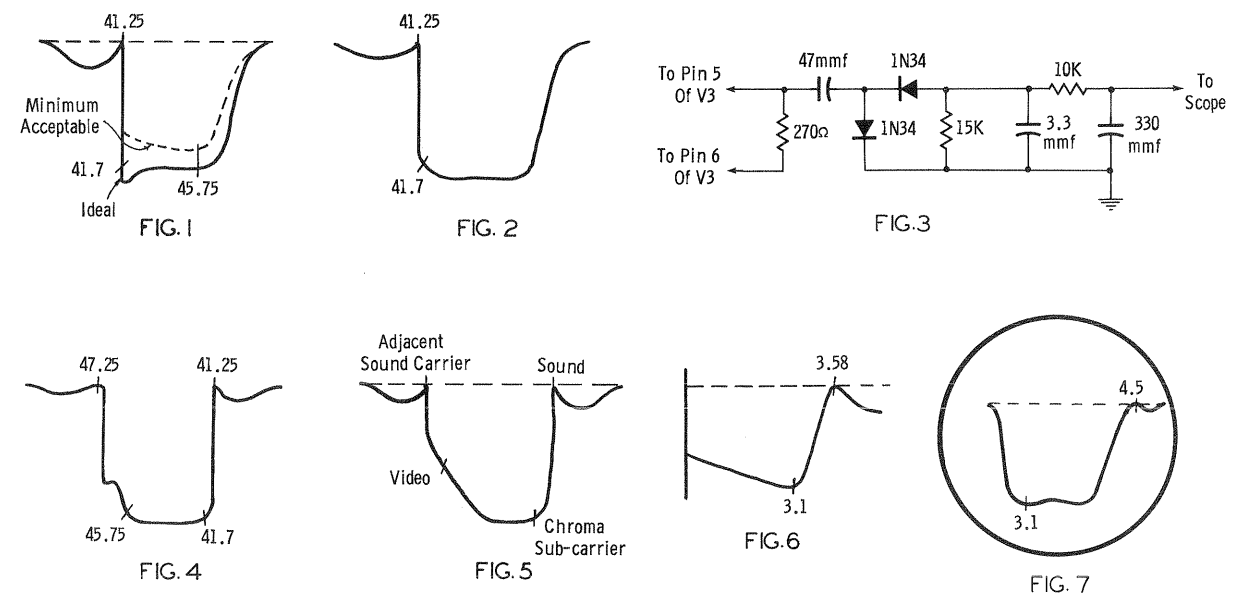
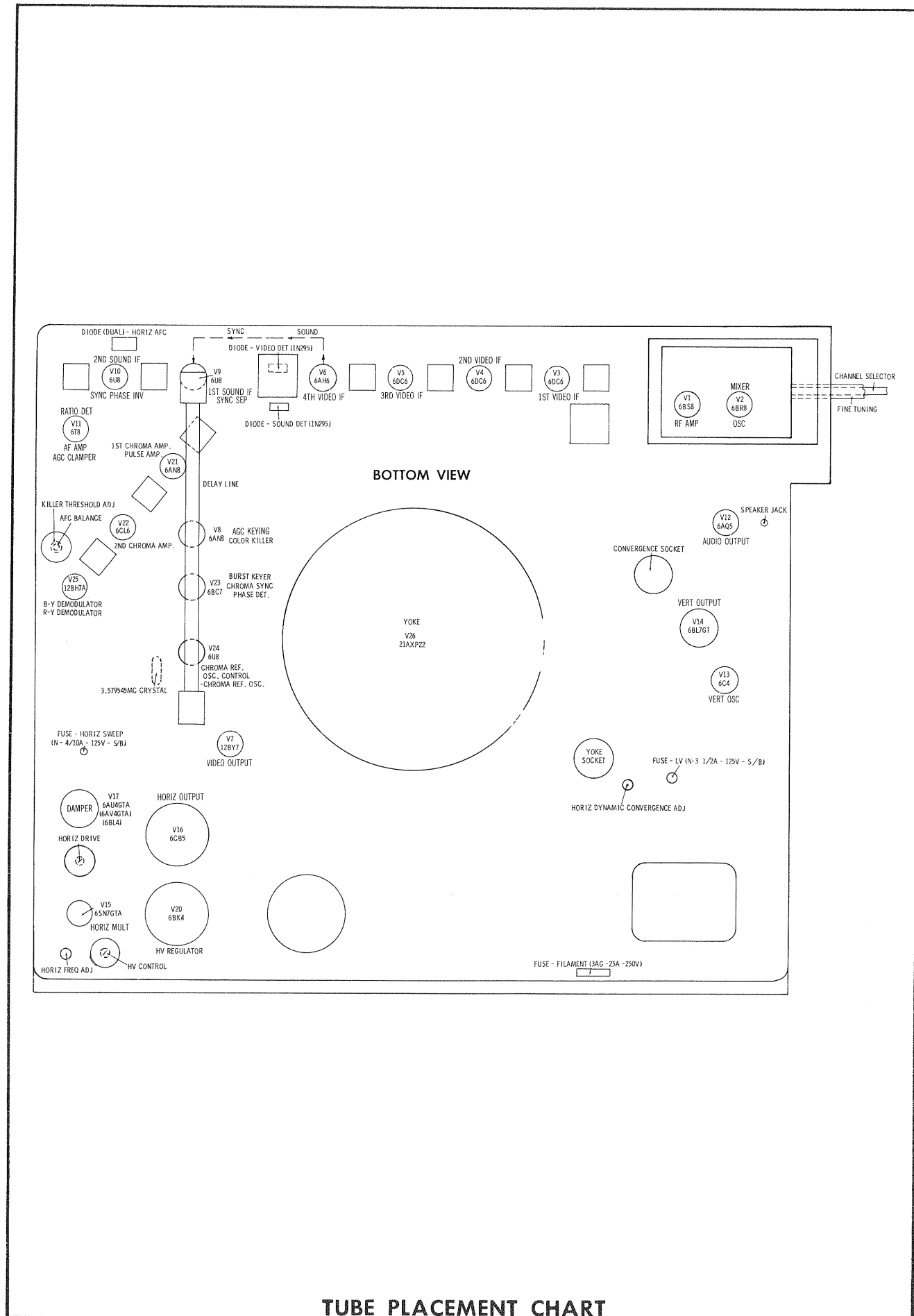


FIG. 8

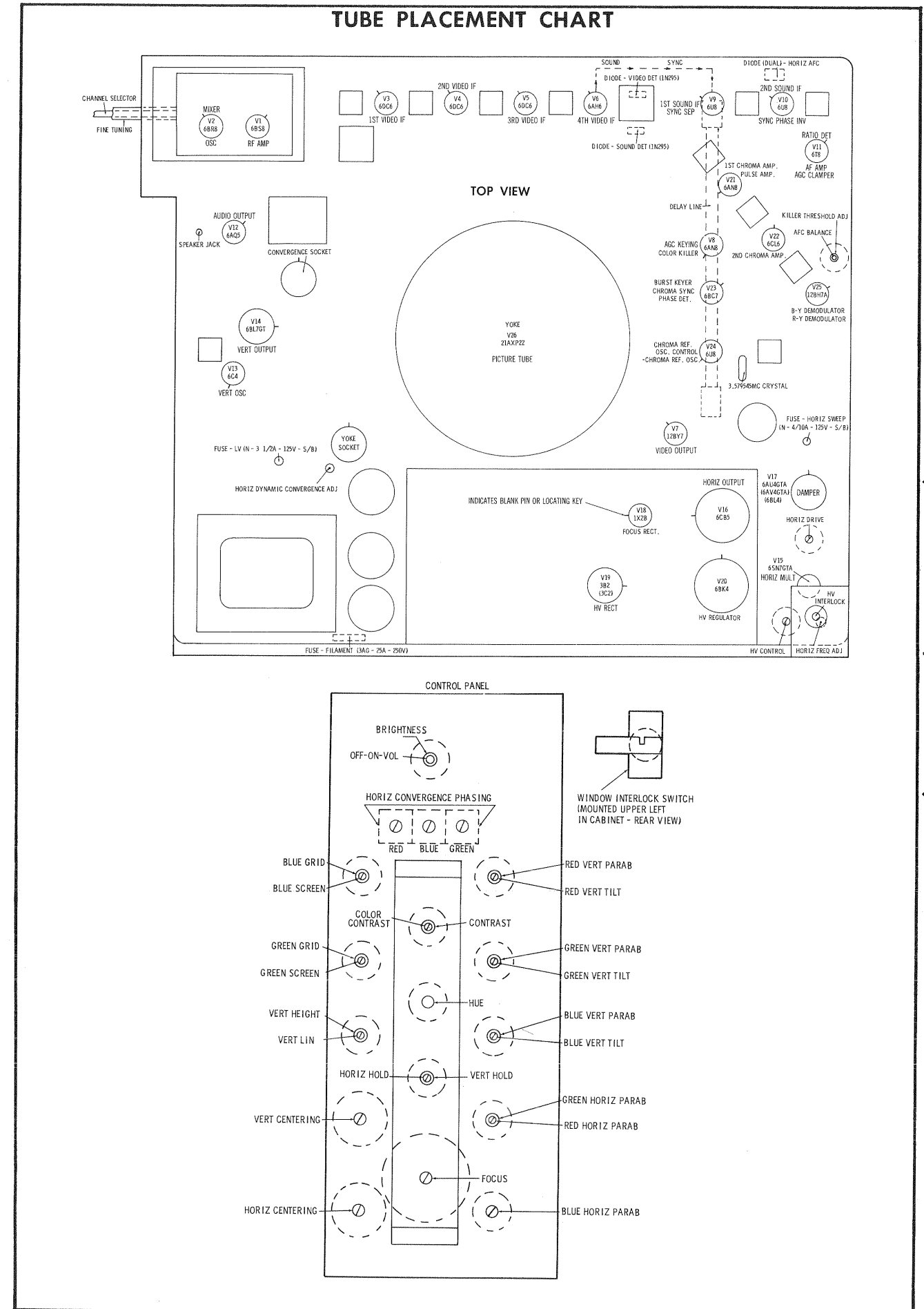
SILVERTONE MODELS 7138, 7140, 7142 (Ch. 528.46300, 528.46301)

FOLDER 1





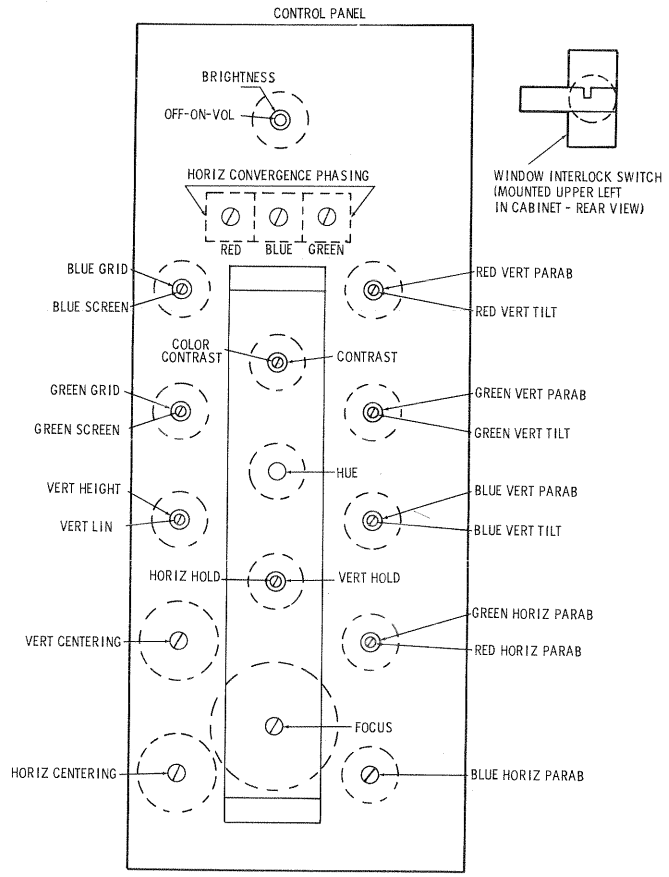
TUBE PLACEMENT CHART

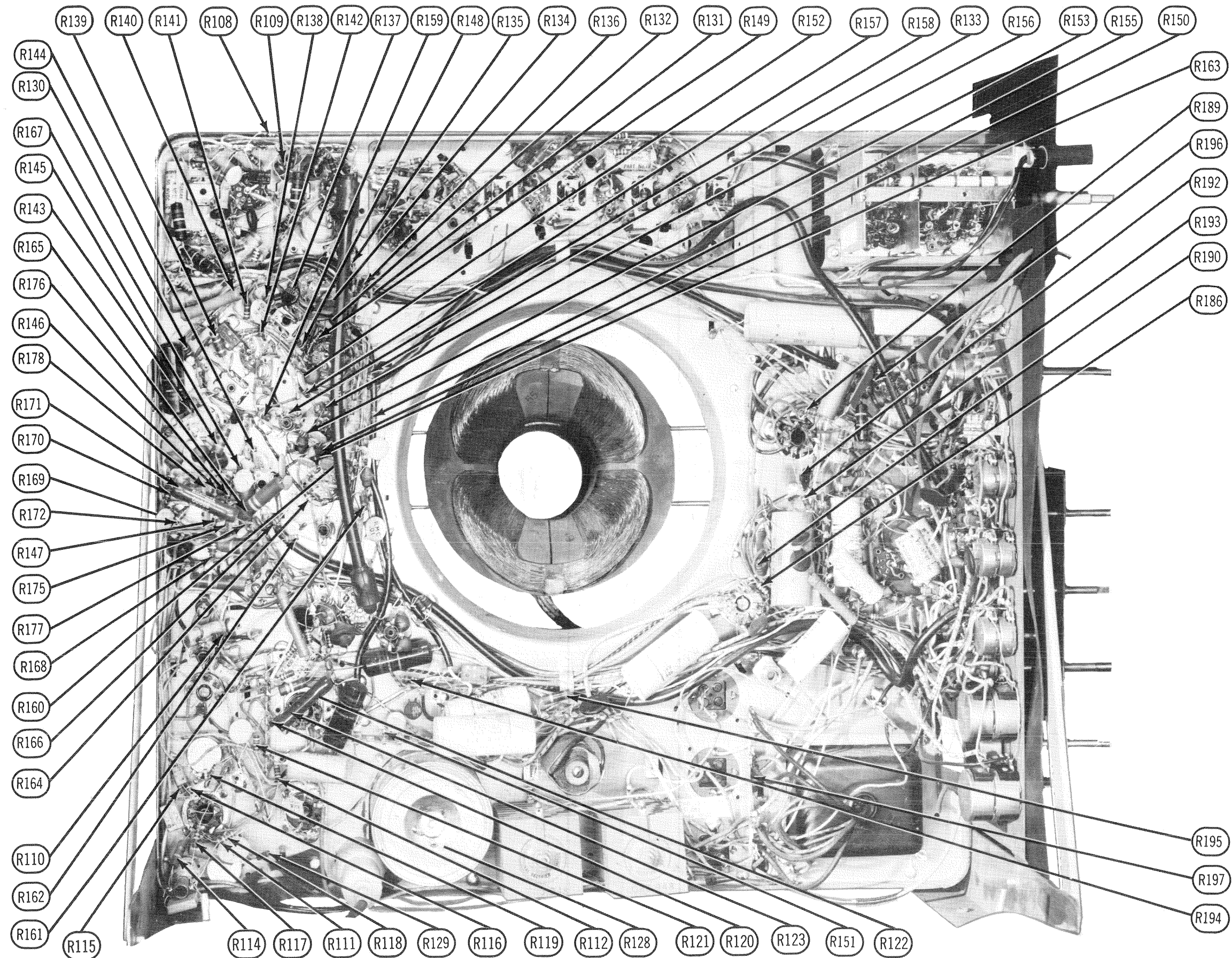


SET 388 FOLDER 1

SILVERTONE MODELS 7138, 7140, 7142  
(Ch. 528.46300, 528.46301)

FOLDER 1

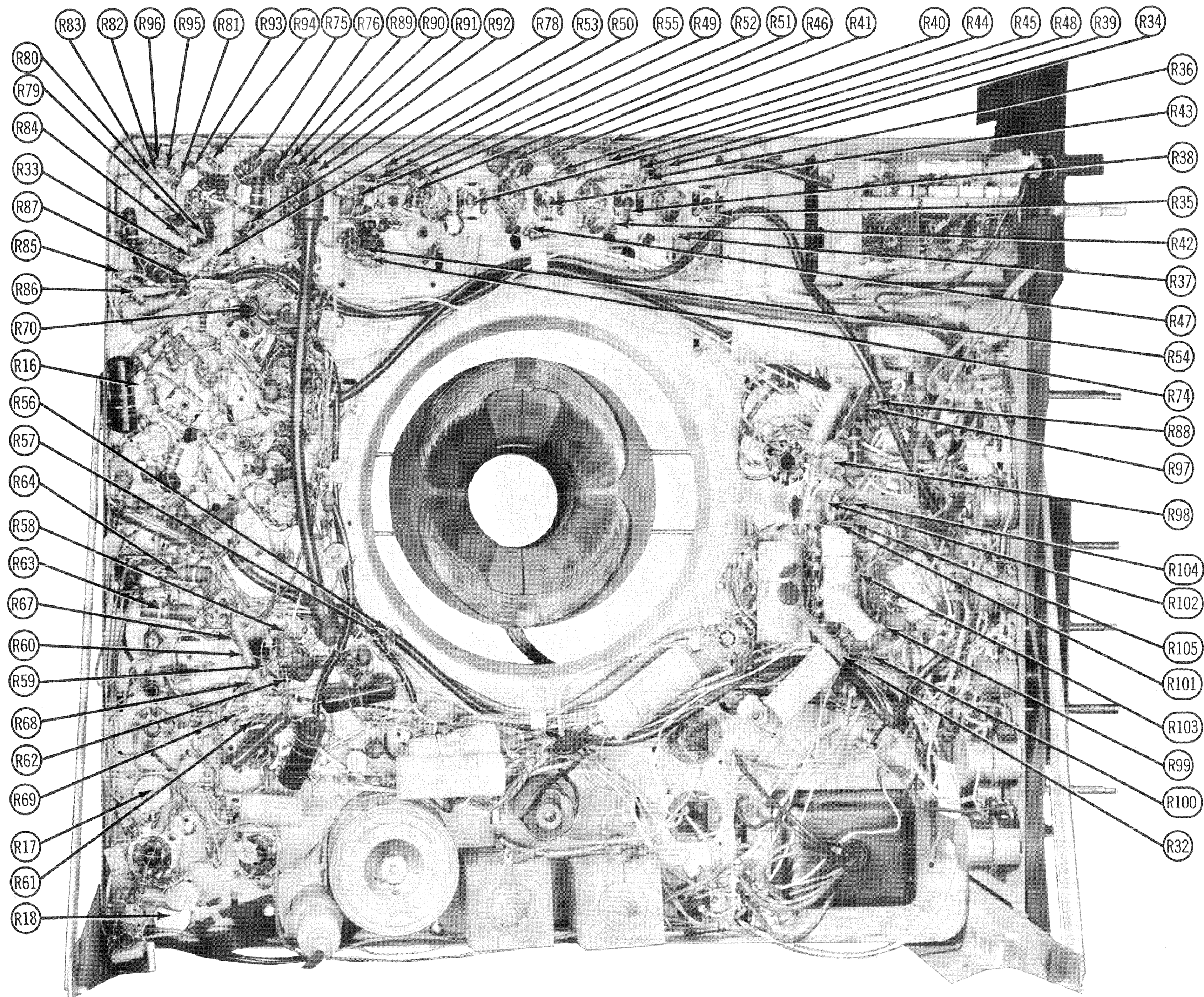




CHASSIS BOTTOM VIEW RESISTOR IDENTIFICATION (R109-R197)

SILVERTONE MODELS 7138, 7140, 7142  
(Ch. 528.46300, 528.46301)

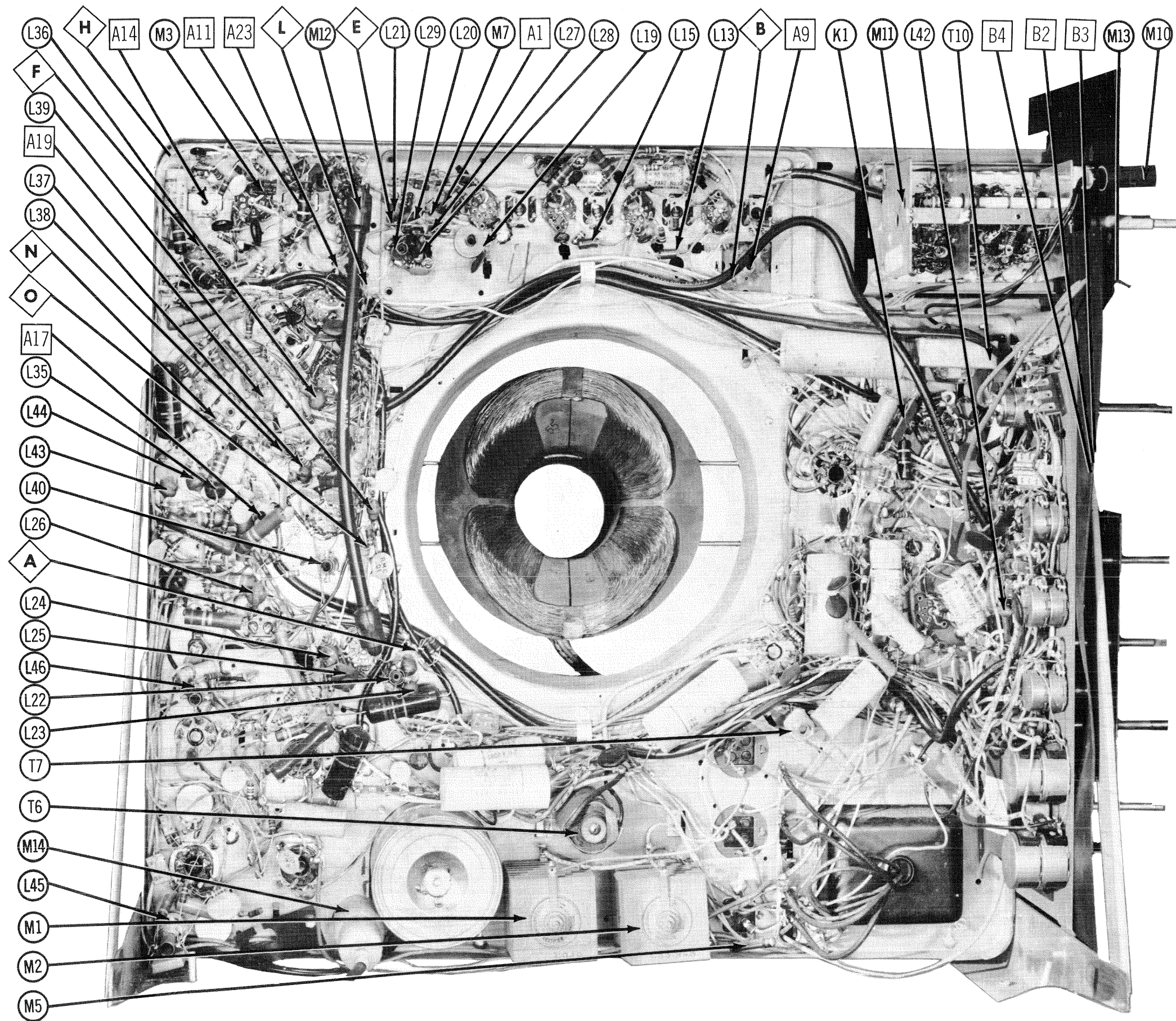
FOLDER 1



CHASSIS BOTTOM VIEW RESISTOR IDENTIFICATION (R16-R105)

SILVERTONE MODELS 7138, 7140, 7142  
 (Ch. 528.46300, 528.46301)

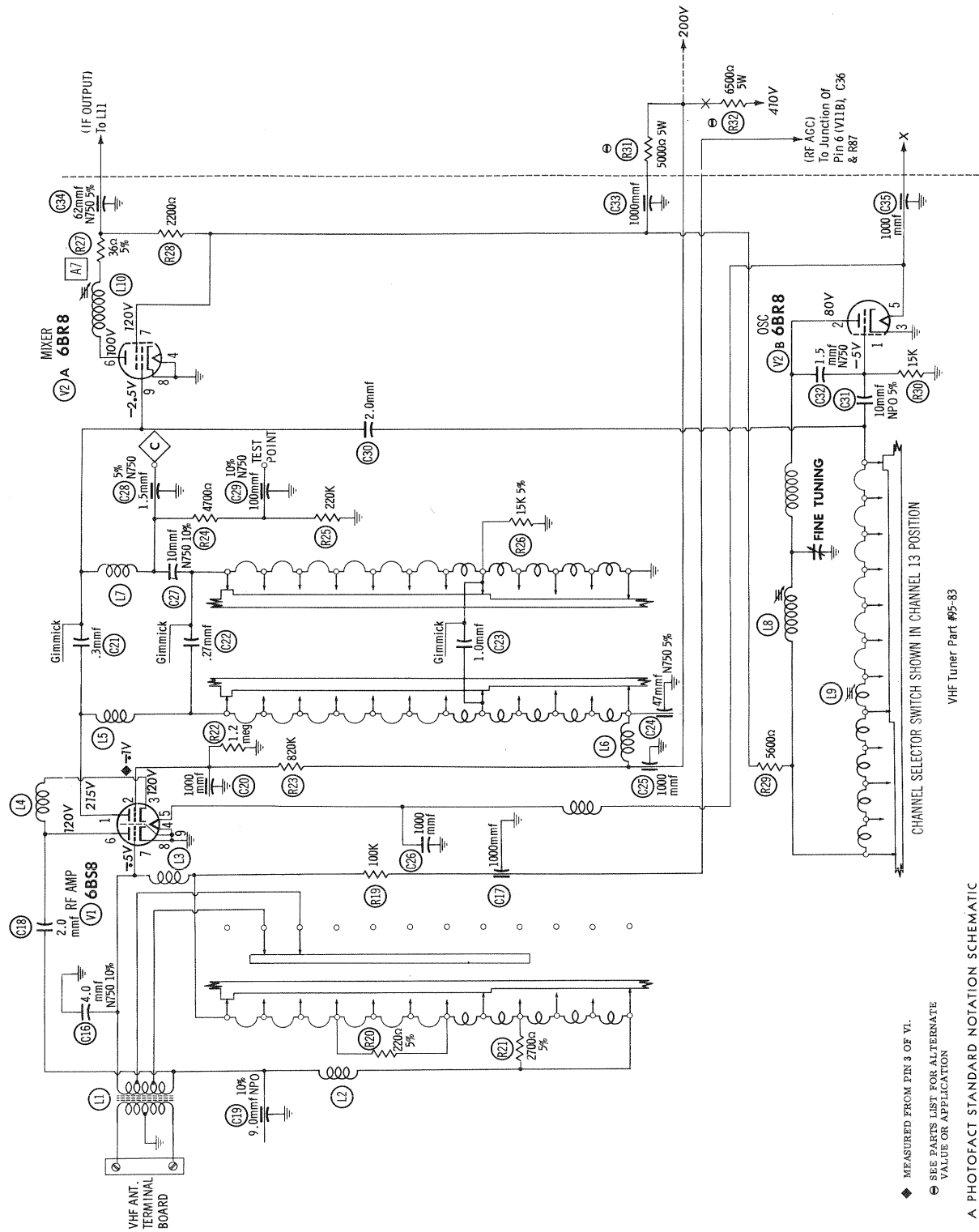
FOLDER 1



CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

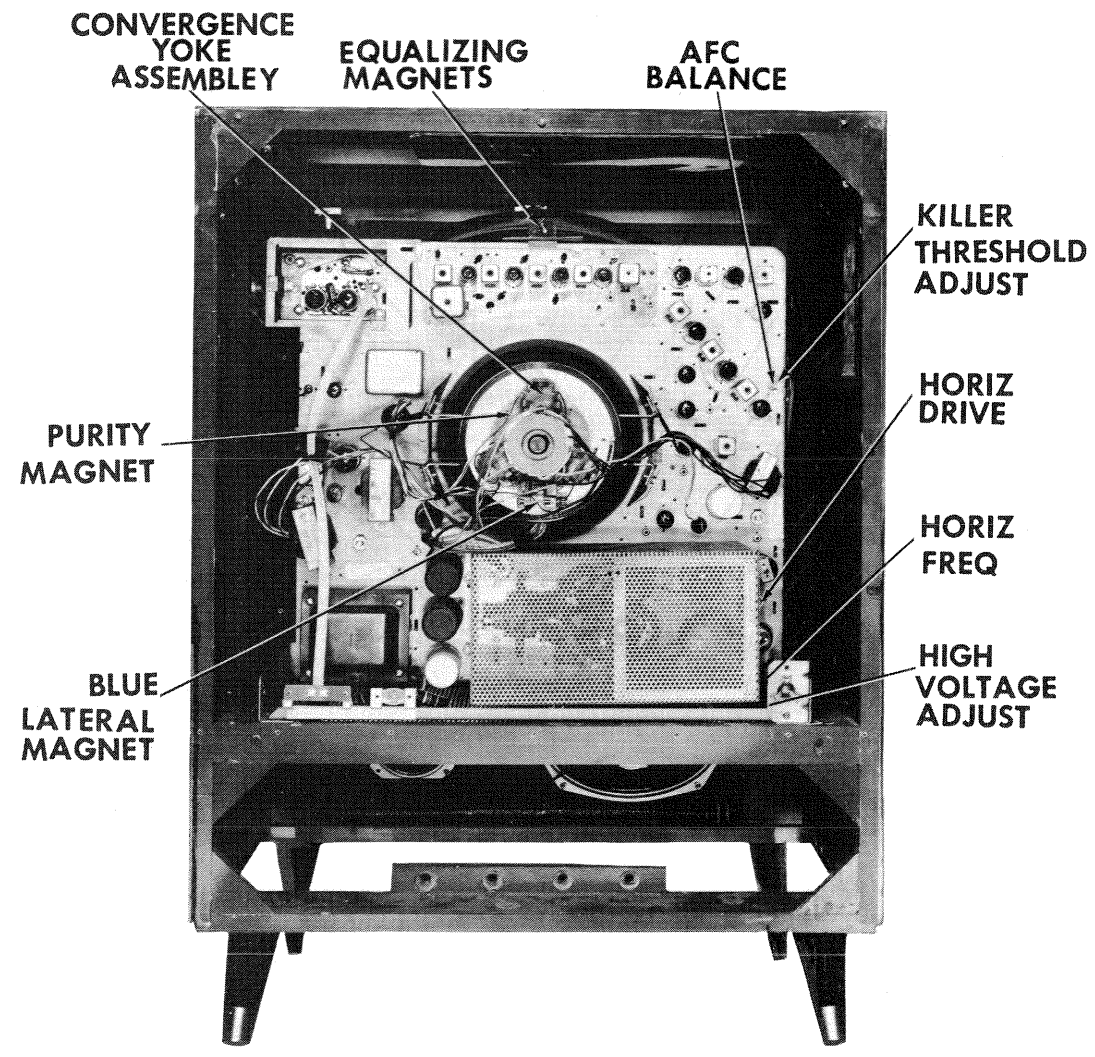
SILVERTONE MODELS 7138, 7140, 7142  
 (Ch. 528.46300, 528.46301)

FOLDER 1



◆ MEASURED FROM PIN 3 OF V1.  
 ⊕ SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION.  
 A. PHOTOFACT STANDARD NOTATION SCHEMATIC  
 Howard W. Sams & Co., Inc. 1958  
 VHF Tuner Part #95-83  
 CHANNEL SELECTOR SWITCH SHOWN IN CHANNEL 13 POSITION

**TUNER SCHEMATIC**



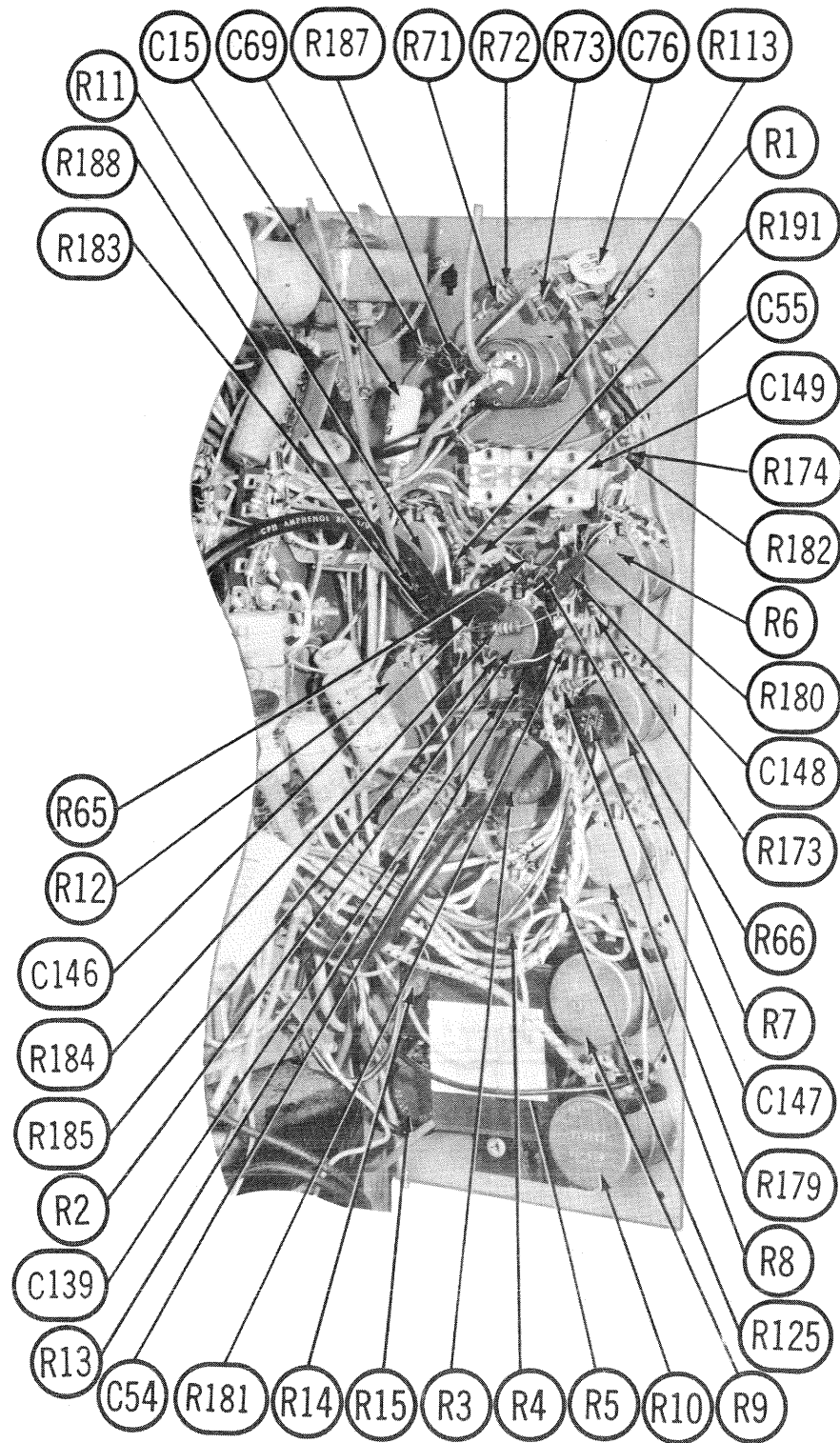
**CABINET-REAR VIEW**

**DISASSEMBLY INSTRUCTIONS**

- CHASSIS REMOVAL**
1. Remove 8 push-on type knobs from the side.
  2. Remove 8 wood screws holding the side escutcheon. Remove the escutcheon and 2 push-on type tuning knobs.
  3. Remove 7 wood screws along the bottom edge of the rear cover, loosen 5 wood screws along the top and sides of the rear cover. Pull the cover out at the bottom and slide up to remove.
  4. Remove 6 wood screws from the trim strip at the top edge of the safety glass. Remove the trim strip. Tilt safety glass and mask out at the top and lift up to remove.
  5. Remove 2 bolts from the AC interlock switch at the top edge of the safety glass.
  6. Remove speaker leads.
  7. Remove 6 chassis bolts from the bottom.
  8. Remove the chassis.

SILVERTONE MODELS 7138, 7140,  
 7142 (Ch. 528.46300, 528.46301)

FOLDER 1



CONTROL PANEL-REAR VIEW

**PARTS LIST AND DESCRIPTIONS (Continued)**

**RECTIFIERS**

ITEM No.	RATING CURRENT (Measured)	REPLACEMENT DATA				NOTES
		SILVERTONE PART No.	FEDERAL PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL PART No.	
M1	.480A	83-948 ①				① Selenium type. ② Two Required.
M2	.480A	83-948 ①				
M3		48-110 ①	1215 ① ②		1T1 ① ②	

**FUSES**

ITEM No.	TYPE	RATING	REPLACEMENT DATA				NOTES	
			SILVERTONE PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M4	N	3 1/2 A 125V S/B	43-25 ①	84-2755 ①	33303.5 (N 3 1/2 A-125V- S/B)	346018	N 3 1/2	HN 2 1/2 to 3 1/2
M5	3 AG	25A 32V P/T	43-26 ②		311025 (3AG-25A- 32V P/T)		AGC25	
M6	N	4/10A 125V S/B	43-21 ③	84-2372	333.400 (N-4/10A- 125V-S/B)	346009	N 4/10	HN 3/10 to 1/2

① Alternate 4 A fuse and holder assembly (Part #84-2371) used in Ch. 528.46300.  
 ② Not used in Ch. 528.46300.  
 ③ Some versions of Ch. 528.46301 use a 3/10A Type N Slo/Blo (Part #43-24) in this application.

**CRYSTAL DIODES**

ITEM No.	ORIG. TYPE	REPLACEMENT DATA			NOTES
		SILVERTONE PART No.	CBS PART No.	SYLVANIA PART No.	
M7	1N295	48-112	1N60	1N34A	Video Detector (Pigtail) Chroma Detector (Pigtail)
M8	1N295	48-112	1N60	1N34A	

**MISCELLANEOUS**

ITEM No.	PART NAME	SILVERTONE PART No.	NOTES
M9	Crystal	48-77	3.579545MC
M10	Dial Lamp	89-7	#47
M11	Tuner	95-83	VHF
M12	Delay Line	23-172	
M13	Switch	69-221 ①	Safety glass interlock
M14	Switch	69-213	Hi-voltage Receptacle Interlock
M15	Magnet	83-847	Equalizing (6 used)
M16	Magnet	83-899	Blue Lateral Beam Positioning
M17	Magnet	83-944	Purity

① Not used in chassis 528.46300.

**CABINETS & CABINET PARTS**

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

NAME	PART NO.	DESCRIPTION
Safety Glass	48-114	Models 7140, 7142
Mask	31-335	Model 7138
Mask	31-358	Model 7138
Knob	52-664	Channel Selector - Models 7140, 7142
Knob	52-774-0	Channel Selector - Model 7138
Knob	52-587	Fine Tuning - Models 7140, 7142
Knob	52-773-0	Fine Tuning - Model 7138
Knob	52-658	On-off-volume, color contrast, horizontal hold
Knob	52-659	Brightness, contrast, vertical hold
Knob	52-660	Hue and focus
Cabinet	42-818	Model 7140
Cabinet	42-887	Model 7138
Cabinet	42-840	Model 7142
Leg	49-52	Model 7140
Leg	49-61	Model 7142

**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

SILVERTONE MODELS 7138, 7140,  
7142 (Ch. 528.46300, 528.46301)

FOLDER 1

**PARTS LIST AND DESCRIPTIONS (Continued)**  
**SPEAKER**

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	SILVERTONE PART No.	QUAM PART No.	
SP1	6"x9"	PM	6-8Ω	79-454 ① ②	6A31Z7.9 ②	① Used in Models 7140, 7142
SP2	4"	PM	6-8Ω	79-456 ① ②	4A07Z8.5 ②	② Parallel and phase.
	6"	PM	3-4Ω	74-461 ③		③ Used in Model 7138

**COILS (RF-IF)**

ITEM No.	USE	SILVERTONE PART No.	NOTES	ITEM No.	USE	SILVERTONE PART No.	NOTES
L1	Ant. Trans.	2309-2		L6	RF Coil	301-25	Channel 13
L2	Ant. Coil	310-9	Channel 13	L7	Mixer Grid Coil	301-6	Channel 13
L3	Ant. Coil	300-6	Channel 13	L8	Osc. Coil	538L-6	Channel 13
L4	Neut. Coil	301-6		L9	Osc. Coil	538L-4	Channel 6
L5	RF Coil	301-8	Channel 13	L10	Mixer Plate Coil	2110-9	

ITEM No.	USE	REPLACEMENT DATA				NOTES
		SILVERTONE PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L11	1st. Video IF	10-16-2				Includes Cap.
L12A	4l. 25MC Trap	10-12-0				Includes 470Ω resistor
B	47. 25MC Trap					
L13	Fil. Choke	33-246	19-1001	BC-562	4604	1.5 Microhenries
L14	2nd. Video IF	10-17-2	17-5004	TV-126	6234	
L15	Fil. Choke	33-246	19-1001	BC-562	4604	1.5 Microhenries
L16	3rd. Video IF	10-18-2	17-5004	TV-126	6234	
L17	4th. Video IF	10-31-2	17-5004	TV-126	6234	
L18	5th. Video IF	10-30-2				Includes Det. Assy.
L19	4l. 25MC Trap	10-5-0				
L20	Series Peaking Coil	10-37-1				4.7 Microhenries
L21	Series Peaking Coil	10-35-1	19-4201	TV-197	6154	200 Microhenries
L22A	3. 58MC Trap	10-33-1				
B	Series Peaking Coil		19-4201 *		6154 *	220 Microhenries, wound on 15K resistor
L23	Shunt Peaking Coil	10-30-1	19-3250	TV-185	6181	230 Microhenries
L24	Series Peaking Coil	10-73-1	19-3300	TV-200	6132	330 Microhenries
L25A	Peaking Coil	10-75-1	19-4412	TV-202	6136	443 Microhenries
B	Peaking Coil		19-4201	TV-197	6154	217 Microhenries
L26	Shunt Peaking Coil	10-67-1	19-3500 Δ	TV-203 Δ	6138 Δ	470 Microhenries, wound on 1500Ω resistor
L27	Shunt Peaking Coil	10-36-1	19-1005	BC-566	4612	10 Microhenries
L28	Series Peaking Coil	10-37-1				4.7 Microhenries
L29A	4. 5MC Trap	10-6-0				Note 1
B	1st. Sound IF					
L30	2nd. Sound IF	10-21-2	17-3489	TV-113	6203	
L31	Ratio Det.	10-3-0	17-3498	TV-115	6205	
L32A	Bandpass Amplifier Grid Coil	10-69-1				Includes caps and resistor
B	4. 5MC Trap					
L33	Bandpass Amplifier Plate Coil	10-8-0				Includes 47K resistor
L34	Demod. Driver Plate Trans.	10-74-1				
L35	Series Peaking Coil	10-86-1	19-4950	TV-208	6157	1000 Microhenries
L36	Series Peaking Coil	10-72-1	19-3180	TV-184	6180	180 Microhenries
L37	Shunt Peaking Coil	10-70-1				27 Microhenries
L38	Burst Take-off Coil	10-31-1				Includes 10K resistor
L39	Series Peaking Coil	10-38-1	19-3036	TV-180	6176	39 Microhenries
L40	Chroma Ref. Osc. Control Plate Coil	10-34-1	17-6011 ◆			Includes 12mmf Cap.
L41	Chroma Ref. Osc. Plate Trans.	10-18-4				
L42	Series Peaking Coil	10-71-1	19-3036	TV-180	6176	Includes Cap. and Resistor
L43	Series Peaking Coil	10-86-1	19-4950	TV-208		33 Microhenries
L44	Series Peaking Coil	10-86-1	19-4950	TV-208		1000 Microhenries

\* Parallel with 15K resistor.  
 Δ Parallel with 1500Ω resistor.  
 ◆ The 12mmf cap. may have to be removed.  
 Note 1. Some versions may use Part #10-743 or #10-735 in this application.

**TRANSFORMER (HORIZ. OSC.)**

ITEM No.	DC RES.		REPLACEMENT DATA						NOTES	
	PRI.	SEC.	SILVERTONE PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	Ram PART No.	Thordarson PART No.		
L45	45Ω		10-19-4 ①						HS-7 *	Horiz. Freq., 20-88 Millihenries, includes 3900mmf cap. Horiz. Phase
L46	.2Ω	42Ω	10-29-1							

\* Disregard tap. ① Alternate part #10-738.

**FILTER CHOKE**

ITEM No.	RATINGS			REPLACEMENT DATA					
	TOTAL DIRECT CURRENT	D. C. RESISTANCE	INDUCTANCE (0 CURRENT 1000 C <sub>v</sub> )	SILVERTONE PART No.	Holldarson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.
L47	.340A	25Ω	1.2 Hy.	33-245	C5041	C-2996	C-2328	26C93	
L48	.140A	23Ω	.8 Hy.	33-244	C5040	C-2994	C-2327	26C41	C-2TX

**COMPONENT COMBINATIONS**

ITEM No.	USE	DESCRIPTION	SILVERTONE PART No.	REPLACEMENT DATA
K1	Vert. Integrator	2000mmf, 5000mmf, 5000mmf, 22K, 8200Ω, 8200Ω	13-2-0	Aerovox PA-501 Centralab PC-104 Cornell-Dubilier 157M1 Erie 1405-01 Sprague 103C12

**PARTS LIST AND DESCRIPTIONS**  
**TUBES ( GENERAL ELECTRIC, SYLVANIA )**

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	RF Amplifier	6BS8		V15	Horiz. Mult.	6SN7GTA	
V2	Mixer-Osc.	6BR8		V16	Horiz. Output	6CB5	Note 1
V3	1st. Video IF Amp.	6DC6		V17	Damper	6AU4GTA	
V4	2nd. Video IF Amp.	6DC6		V18	Focus Rect.	1X2 B	
V5	3rd. Video IF Amp.	6DC6		V19	HV Rectifier	3B2	Note 2
V6	4th. Video IF Amp.	6AH6		V20	HV Regulator	6BK4	
V7	Video Output	12BY7		V21	1st. Chroma Amp. - Pulse Amp.	6AN8	
V8	AGC Keying-Color Killer	6AN8		V22	2nd. Chroma Amp.	6CL6	
V9	1st. Sound IF Amp. -Sync Sep	6U8		V23	Burst Keyer-Chroma Sync Phase Det.	6BC7	
V10	2nd. Sound IF - Sync Phase Inv.	6U8		V24	Chroma Ref. Osc. Control-Chroma Ref. Osc.	6U8	
V11	Ratio Det. -AF Amp. - AGC Clamper	6T8		V25	B-Y Demodulator-R-Y Demodulator	12BH7A	
V12	Audio Output	6AQ5					
V13	Vert. Osc.	6C4					
V14	Vert. Output	6BL7GT					

Note 1. A 6BL4 or 6AV4GTA may be used in some versions.  
 Note 2. A 3C2 may be used in some versions.

**PICTURE TUBE**

ITEM No.	REPLACEMENT DATA			NOTES
	SILVERTONE PART No.	GENERAL ELECTRIC PART No.	SYLVANIA PART No.	
V26	21AXP22	21AXP22 21AXP22A	21AXP22 21AXP22A	

**ELECTROLYTIC CAPACITORS**

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	SILVERTONE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLOY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1	200	250	18-27-3	AFHS1-37-30	XA0318	FP126	TMS-75	Q-012	TVL-1547
C2	200	250	18-27-3	AFHS1-37-30	XA0318	FP126	TMS-75	Q-012	TVL-1547
C3	1000	12	18-36-0	PRSI2V1000	BR10001	TC1501	TD-1000-15	S-020	TVA-1133
C4A	▲90	450	18-23-3	AFH2-94-85	XA0318	FP126			R2470 *
B	▲200	250			BR10045	TC80			
C5	2	50	18-30-0	PRSS0V2	EBR2-50	TC302	TD-2-50	MT-0502	TVA-1301
C6	10	50	18-33-0	PRSS0V10	BBR10-50	TC32	TD-10-50	MT-0510	TVA-1304
C7A	▲10	450	18-22-3	AFH4-10	DO090	FP434	TMQ-10	Q-030	TVL-4760
B	▲10	450							
C	▲10	450							
D	10	450							
C8	4	450	18-32-0	PRS450V4	BR445	TC70	TD-4-450	MT-4504	TVA-1702
C9	4	50	18-25-0	PRSI50V4	EBR4-50	TC30	TD-4-50	MT-0504	TVA-1303
C10	4	50	18-25-0	PRSI50V4	EBR4-50	TC30	TD-4-50	MT-0504	TVA-1303
C11	25	50	18-34-0	PRSS0V25	EBR25-50	TC36	TD-25-50	MT-0525	TVA-1306
C12	10	25NP	18-6-5	NP-PR25	EBR20-25	TC45	TD-20-150	MT-1520	R2463 *
					EBR20-25 †	TC45 †	TD-20-150 †	MT-1520 †	
C13	10	50	18-33-0	PRSS0V10	EBR10-50	TC32	TD-10-50	MT-0510	TVA-1304
C14	500	12NP	18-31-0	NP-PRSI0V	BR10001	TC1501	TD-100015 †		R2464 *
				500	BR10001 †	TC1501 †	TD-100015 †		
C15	10	25	18-35-0	PRSS25V10	EBR10-25	TC22	TD-10-25	MT-0210	TVA-1204

\* Non-catalog item.  
 † Connect negative leads together.

**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
	CAP.	VOLT	SILVERTONE PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLOY PART No.	SPRAGUE PART No.	
C16	4.0		225-409							N750 10%
C17	1000		244-1	EF-001	MFT-1000					
C18	2.0		2310-209			C10V2C			503C-DI	
C19	9.0		245-909			C10V9C				NPO 10%
C20	1000		244-1	EF-001	MFT-1000				503C-DI	
C21	.3		2101-303							
C22	.27		2101-278							
C23	1.0		2101-109	NPO-SI 1.0	TCZ-1		TCO-1		5TCCB-V1	
C24	47		233-470	N750-SI 47	TCN-47	C10Q47U	TC7-47		5TCU-Q47	N750 5%
C25	1000		244-1	EF-001	MFT-1000				503C-DI	
C26	1000		2033-23	BPD-001	DD-102	BYA6DI	ED-1000	DC521	5HK-DI	
C27	10		221-100	N750-SI 10	TCN-10	C10QU	TC7-10	NT-541	5TCU-QI	N750 10%
C28	1.5		246-159							N750 5%
C29	100		248-101							N750 10%
C30	2.0		2101-209							
C31	10		163-100	NPO-SI 10	TCZ-10	C10V2C	TCO-10	ZT-541	5TCC-QI	NPO 5%
C32	1.5		170-159			C10Q1C				N750
C33	1000		244-1	EF-001	MFT-1000				503C-DI	
C34	62		246-620							N750 5%
C35	1000		244-1	EF-001	MFT-1000				503C-DI	
C36	10000		15-10317	BPD-01	DD-103	BYA6SI	ED-01	DC511	5HK-SI	
C37	1000		15-10217	BPD-001	DD-102	BYA6DI	ED-1000	DC521	5HK-DI	
C38	680		15-68117	BPD-00068	DD-681	BYA10T68	ED-680	UC-5368	5GA-T68	
C39	20000		15-20317	BPD-02	DD-203	BYB6S2	ED-02		5HK-S2	①
C40	680		15-68117	BPD-00068	DD-681	BYA10T68	ED-680	UC-5368	5GA-T68	
C41	1500		15-15217	BPD-0015	DD-152	BYA10D15	ED-1500	DC5215	5HK-D15	
C42	1500		15-15217	BPD-0015	DD-152	BYA10D15	ED-1500	DC5215	5HK-D15	

