

HORIZONTAL LINEARITY ADJUSTMENTS

Turn the set on and tune in a TV station, preferably a test pattern.
Turn the horizontal size control until the picture is of proper width.
Turn the horizontal linearity control fully counter-clockwise, and then slowly clockwise until crowding is observed in the center of the picture. Then carefully turn the control counter-clockwise just enough to remove the crowding. On some sets the crowding may not be observed, in this case turn the control to maximum clockwise and leave it there. Caution: Do not operate the set for any length of time with this control incorrectly adjusted. Check the setting of the horizontal linearity control frequently during horizontal oscillator alignment.

HORIZONTAL OSCILLATOR ALIGNMENT

HORIZONTAL OSCILLATOR CHECK

- a) Turn the set on and tune in a TV signal, preferably a test pattern. The picture should pull into sync.
- b) Momentarily remove the signal by tuning to another channel and back again, the picture should fall back into sync.
- c) Turn the set off for about 5 minutes, upon turning the set back on the picture should immediately fall back into sync.

SLIGHT RETOUCH ADJUSTMENT

If the oscillator failed any of the above check, it may be possible to correct it with a slight retouch adjustment as follows:
1) Remove the horizontal discriminator tube (V19) from its socket.
2) Adjust the horizontal frequency slug (B1) until the picture moves slowly back and forth across the screen with the blanking bar vertical.
3) Replace the horizontal discriminator tube (V19) in its socket.
4) Repeat the horizontal oscillator check, if the oscillator does not synchronize properly proceed with complete horizontal oscillator alignment.

COMPLETE HORIZONTAL OSCILLATOR ALIGNMENT

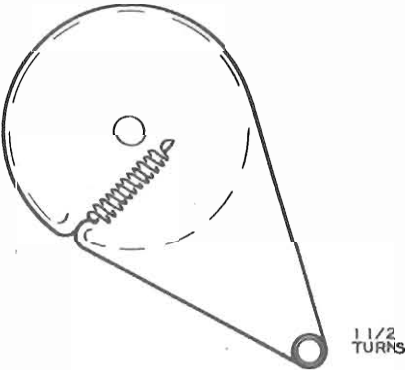
- a) Turn the core of the "ringing" coil (B2) fully out, (counter-clockwise), and short R108.
 - b) Remove the horizontal discriminator tube (V19) from its socket.
 - c) Adjust B1 until the picture moves slowly back and forth across the screen with the blanking bar vertical.
 - d) Replace V19 in its socket.
 - e) Turn the horizontal centering control until the edge of the picture can be seen. Turn the contrast down and the brightness up until the normally blanked edge of the raster is visible.
 - f) Adjust the horizontal phasing slug (B3) until the blanking bar is approximately 1/8 inch wide.
 - g) Remove the short from R108 and readjust the horizontal linearity control as outlined under "HORIZONTAL LINEARITY ADJUSTMENTS".
 - h) Adjust B2 until 1/8 inch of blanking bar is again visible.
- Check the oscillator pull in range as follows:
Turn B1 until the picture falls out of sync.
Slowly turn B1 back towards its original position and carefully note the number of bars present just before the picture falls back into sync. Repeat this check for both directions of rotation. If the number of bars present just before synchronization is less than 3 or more than 4 at either end of the pull in range, repeat the complete horizontal oscillator alignment. After completing this check, perform the slight retouch adjustment above.
Repeat the horizontal oscillator check.

HIGH VOLTAGE OSCILLATOR ADJUSTMENTS

Turn the contrast and brightness control to minimum.
Make sure the high voltage power supply cover is properly in place, and turn the high voltage trimmer (B4) to minimum capacity, (fully out).
Connect the high voltage probe of a VTVM to the high voltage lead from the power supply, connect the common lead to chassis. Turn B4 clockwise and observe the reading on the meter, a peak voltage of approximately 12KV should be reached. Continue turning B4 clockwise until the meter reads 9.5KV, this is the proper setting for B4.
NOTE: The high voltage supply will provide a greatly reduced output if the high voltage fuse is blown.

DISASSEMBLY INSTRUCTIONS (MODEL 1-075)

- 1. Remove four push-in type control knobs. NOTE: Only outer knob of power switch comes off.
- 2. Remove six screws holding rear cover. Drop cover on hinges or remove staples holding hinges and remove cover completely.
- 3. Loosen antenna terminal screws. Remove built-in antenna leads.
- 4. Remove screw holding clamp over speaker corner. Remove clamp.
- 5. Remove six 5/16" hex head bolts holding chassis. Remove chassis.

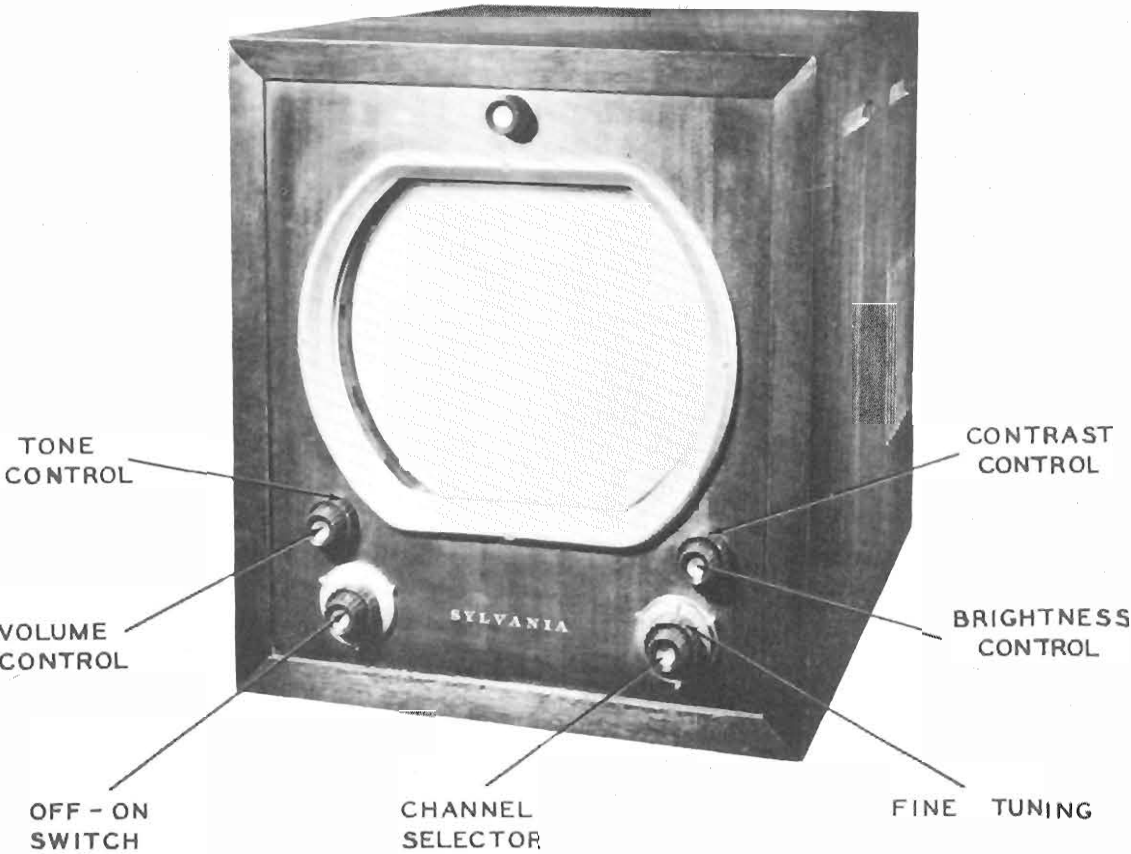


CHANNEL SELECTOR DRIVE CORD STRINGING

PHOTOFACT* Folder



SYLVANIA MODELS 1-075, 1-113,
1-114, 1-124, 1-125, 1-177



SYLVANIA MODELS 1-075, 1-113,
1-114, 1-124, 1-125, 1-177

SYLVANIA MODEL 1-075

TRADE NAME	Sylvania Models 1-075, 1-113, 1-114, 1-124, 1-125 (Ch. 1-139) 1-177 (Ch. 1-186)		
MANUFACTURER	Sylvania Elect. Prod. Inc., Colonial Radio & Tel. Div. 254 Rana St., Buffalo 7, New York		
TYPE SET	Television Receiver		
TUBES	Twenty Eight		
POWER SUPPLY	110-120 Volts AC-60 Cycle	RATING	2.19 Amp. at 117 Volts AC
TUNING RANGE	Channels 2 thru 13		
INDEX			
Alignment Instructions	6, 7	Photographs (continued)	
Block Diagram.....	16	Deflection Sub-Chassis	10
Disassembly Instructions	20	High Voltage Supply.....	10
Drive Cord Stringing	20	RF Tuner	7
Hor. Osc. & Linearity Adjustment.....	20	Resistor Identification	12, 17
Parts List and Description	13, 14, 15, 16	Trans., Inductor & Alignment Identification.....	4, 9
Photographs		Schematic	2
Capacitor Identification	11, 18	Tube Placement Chart	5
Chassis-Top View.....	3, 19	Voltage & Resistance Measurements	8

HOWARD W. SAMS & CO., INC. • Indianapolis 1, 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 the particular type of replacement part listed."

tent, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1950 by Howard W. Sams & Co., Inc., Indianapolis 1, Indiana, U. S. of America. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc. Printed in U. S. of America

DATE 4-50

SET 92

FOLDER 8

HORIZONTAL LINEARITY ADJUSTMENTS

Turn the set on and tune in a TV station, preferably a test pattern.
Turn the horizontal size control until the picture is of proper width.
Turn the horizontal linearity control fully counter-clockwise, and then slowly clockwise until crowding is observed in the center of the picture. Then carefully turn the control counter-clockwise just enough to remove the crowding. On some sets the crowding may not be observed, in this case turn the control to maximum clockwise and leave it there. Caution: Do not operate the set for any length of time with this control incorrectly adjusted. Check the setting of the horizontal linearity control frequently during horizontal oscillator alignment.

HORIZONTAL OSCILLATOR ALIGNMENT

HORIZONTAL OSCILLATOR CHECK

a) Turn the set on and tune in a TV signal, preferably a test pattern. The picture should pull into sync.
b) Momentarily remove the signal by tuning to another channel and back again, the picture should fall back into sync.
c) Turn the set off for about 5 minutes, upon turning the set back on the picture should immediately fall back into sync.

SLIGHT RETOUCH ADJUSTMENT

If the oscillator failed any of the above check, it may be possible to correct it with a slight retouch adjustment as follows:
1) Remove the horizontal discriminator tube (V19) from its socket.
2) Adjust the horizontal frequency slug (B1) until the picture moves slowly back and forth across the screen with the blanking bar vertical.
3) Replace the horizontal discriminator tube (V19) in its socket.
4) Repeat the horizontal oscillator check, if the oscillator does not synchronize properly proceed with complete horizontal oscillator alignment.

COMPLETE HORIZONTAL OSCILLATOR ALIGNMENT

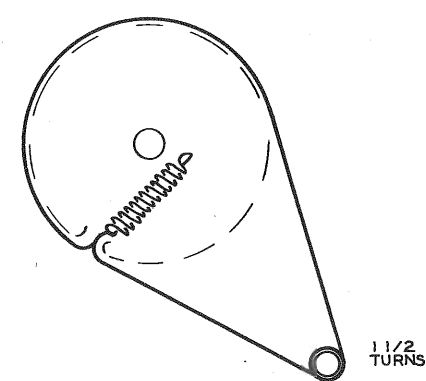
a) Turn the core of the "ringing" coil (B2) fully out, (counter-clockwise), and short R108.
b) Remove the horizontal discriminator tube (V19) from its socket.
c) Adjust B1 until the picture moves slowly back and forth across the screen with the blanking bar vertical.
d) Replace V19 in its socket.
e) Turn the horizontal centering control until the edge of the picture can be seen. Turn the contrast down and the brightness up until the normally blanked edge of the raster is visible.
f) Adjust the horizontal phasing slug (B3) until the blanking bar is approximately 1/8 inch wide.
g) Remove the short from R108 and readjust the horizontal linearity control as outlined under "HORIZONTAL LINEARITY ADJUSTMENTS".
h) Adjust B2 until 1/8 inch of blanking bar is again visible.
Check the oscillator pull in range as follows:
Turn B1 until the picture falls out of sync.
Slowly turn B1 back towards its original position and carefully note the number of bars present just before the picture falls back into sync. Repeat this check for both directions of rotation. If the number of bars present just before synchronization is less than 3 or more than 4 at either end of the pull in range, repeat the complete horizontal oscillator alignment. After completing this check, perform the slight retouch adjustment above.
Repeat the horizontal oscillator check.

HIGH VOLTAGE OSCILLATOR ADJUSTMENTS

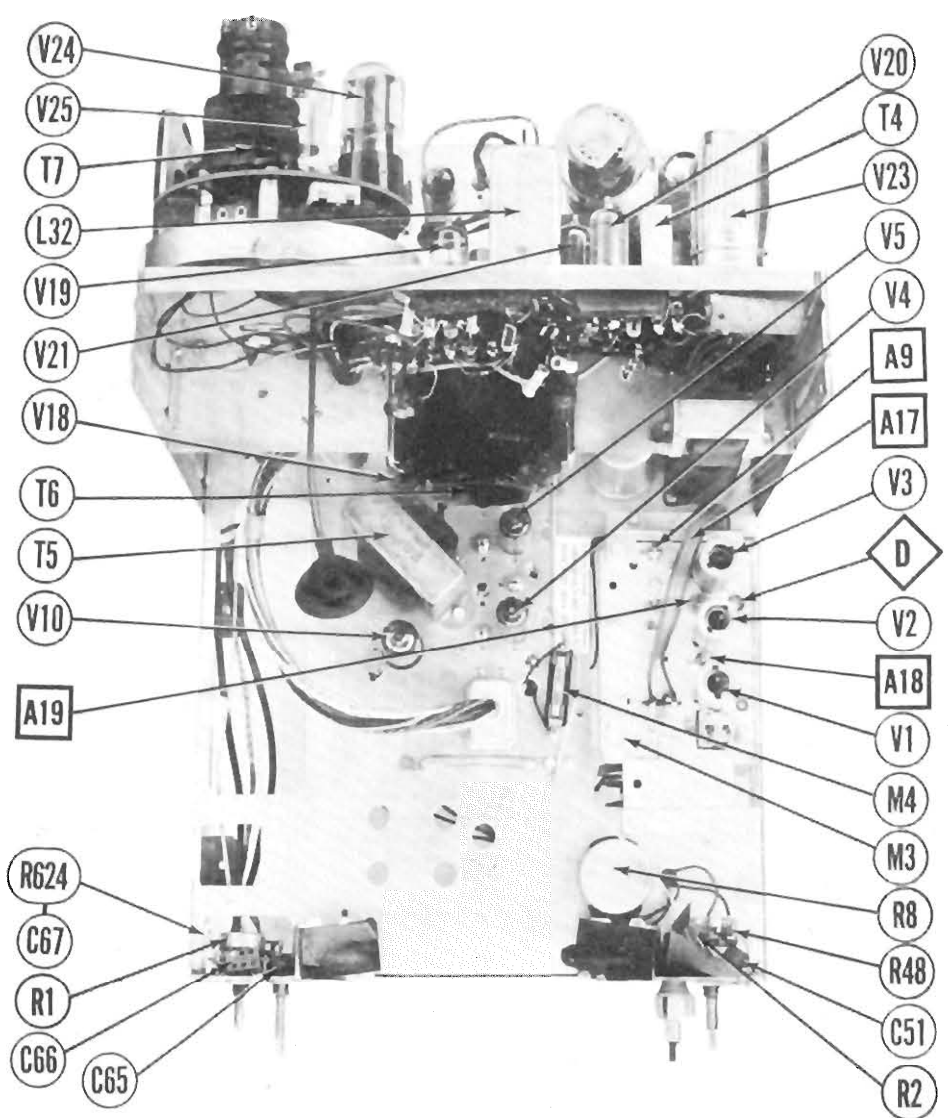
Turn the contrast and brightness control to minimum.
Make sure the high voltage power supply cover is properly in place, and turn the high voltage trimmer (B4) to minimum capacity, (fully out).
Connect the high voltage probe of a VTVM to the high voltage lead from the power supply, connect the common lead to chassis. Turn B4 clockwise and observe the reading on the meter, a peak voltage of approximately 12KV should be reached. Continue turning B4 clockwise until the meter reads 9.5KV, this is the proper setting for B4.
NOTE: The high voltage supply will provide a greatly reduced output if the high voltage fuse is blown.

DISASSEMBLY INSTRUCTIONS (MODEL I-075)

- 1. Remove four push-on type control knobs. NOTE: Only outer knob of power switch comes off.
- 2. Remove six screws holding rear cover. Drop cover on hinges or remove staples holding hinges and remove cover completely.
- 3. Loosen antenna terminal screws. Remove built-in antenna leads.
- 4. Remove screw holding clamp over speaker corner. Remove clamp.
- 5. Remove six 5/16" hex head bolts holding chassis. Remove chassis.



CHANNEL SELECTOR DRIVE CORD STRINGING



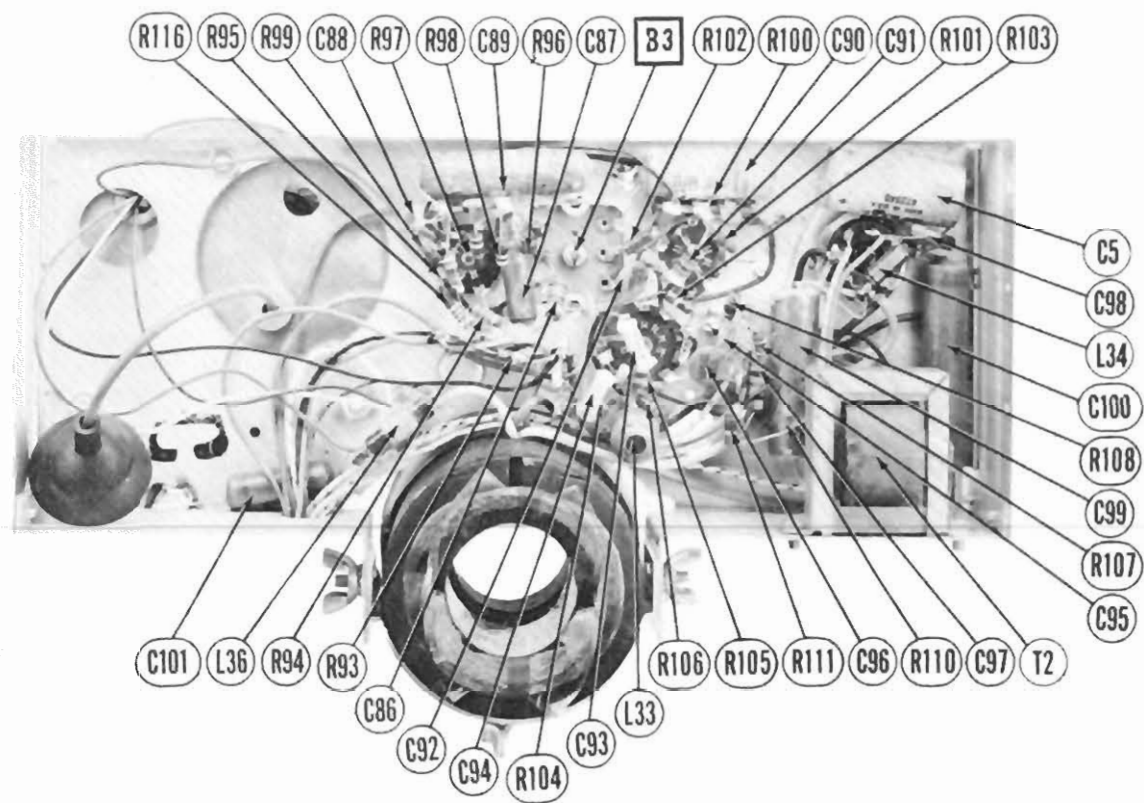
CHASSIS-TOP VIEW



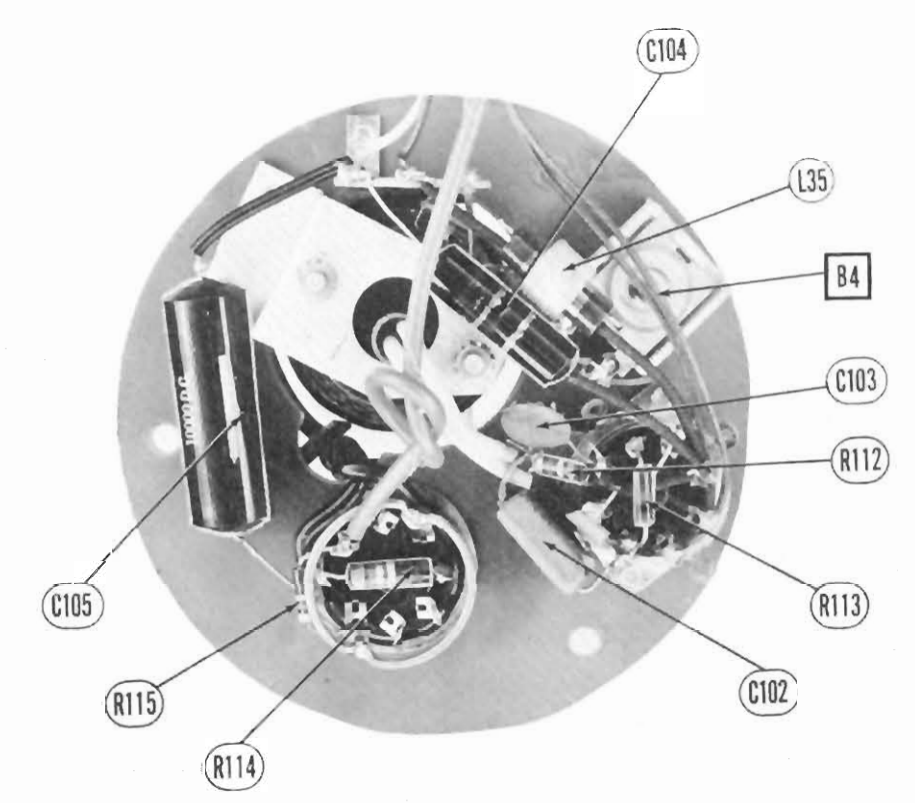
TRADE NAME	Sylvania Model
MANUFACTURER	Sylvania Elec
TYPE SET	Television Re
TUBES	Twenty Eight
POWER SUPPLY	110-120 Volts
TUNING RANGE	Channels 2 thr
Alignment Instructions
Block Diagram
Disassembly Instructions
Drive Cord Stringing
Hor. Osc. & Linearity Adjustm
Parts List and Description
Photographs
Capacitor Identification
Chassis-Top View

HOWARI

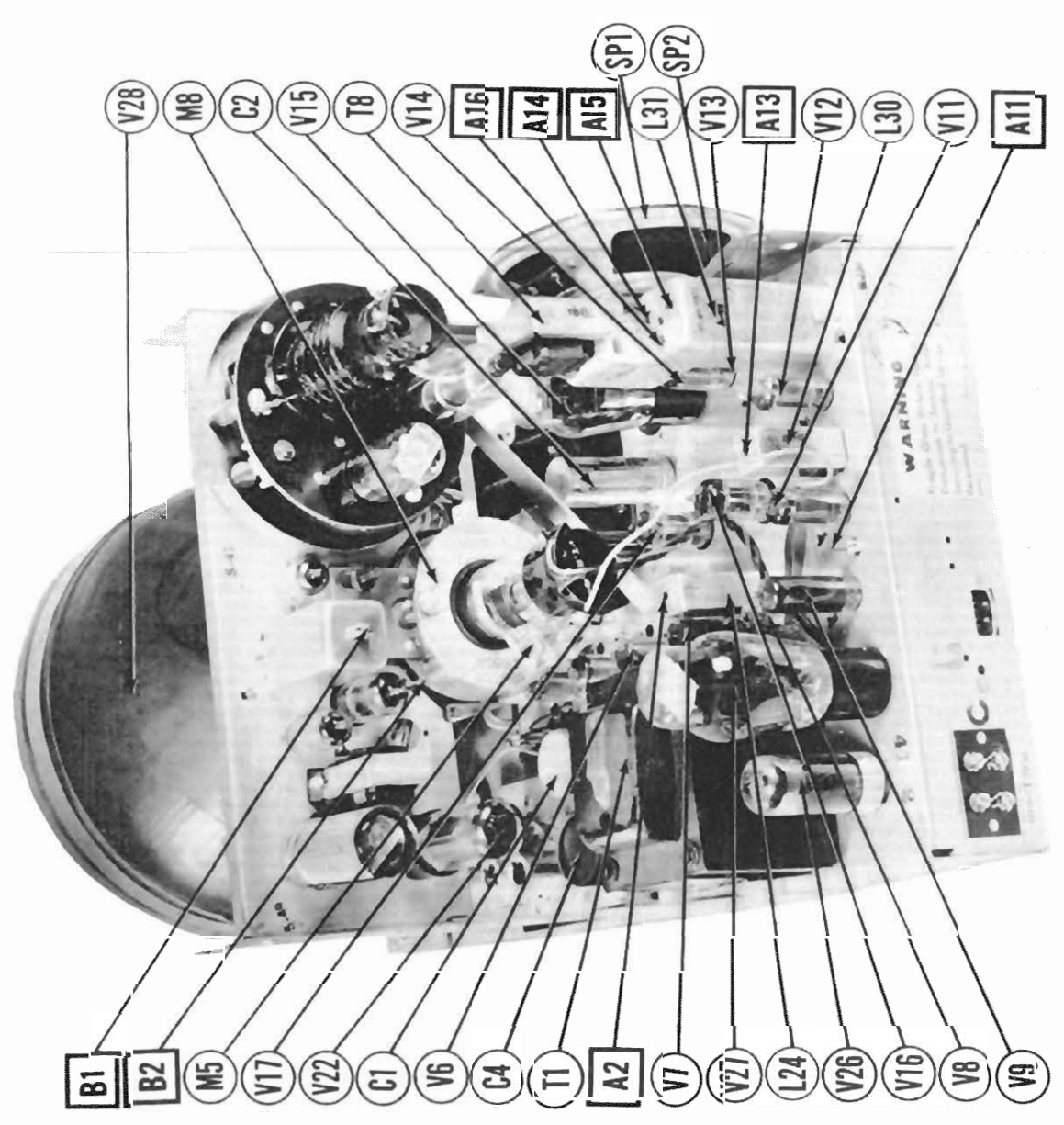
"The listing of any available replacement p
case a recommendation, warranty or guarar
as to the quality and suitability of such repl
parts have been compiled from information f
Inc., by the manufacturers of the particular
"Reproduction or use, without express per



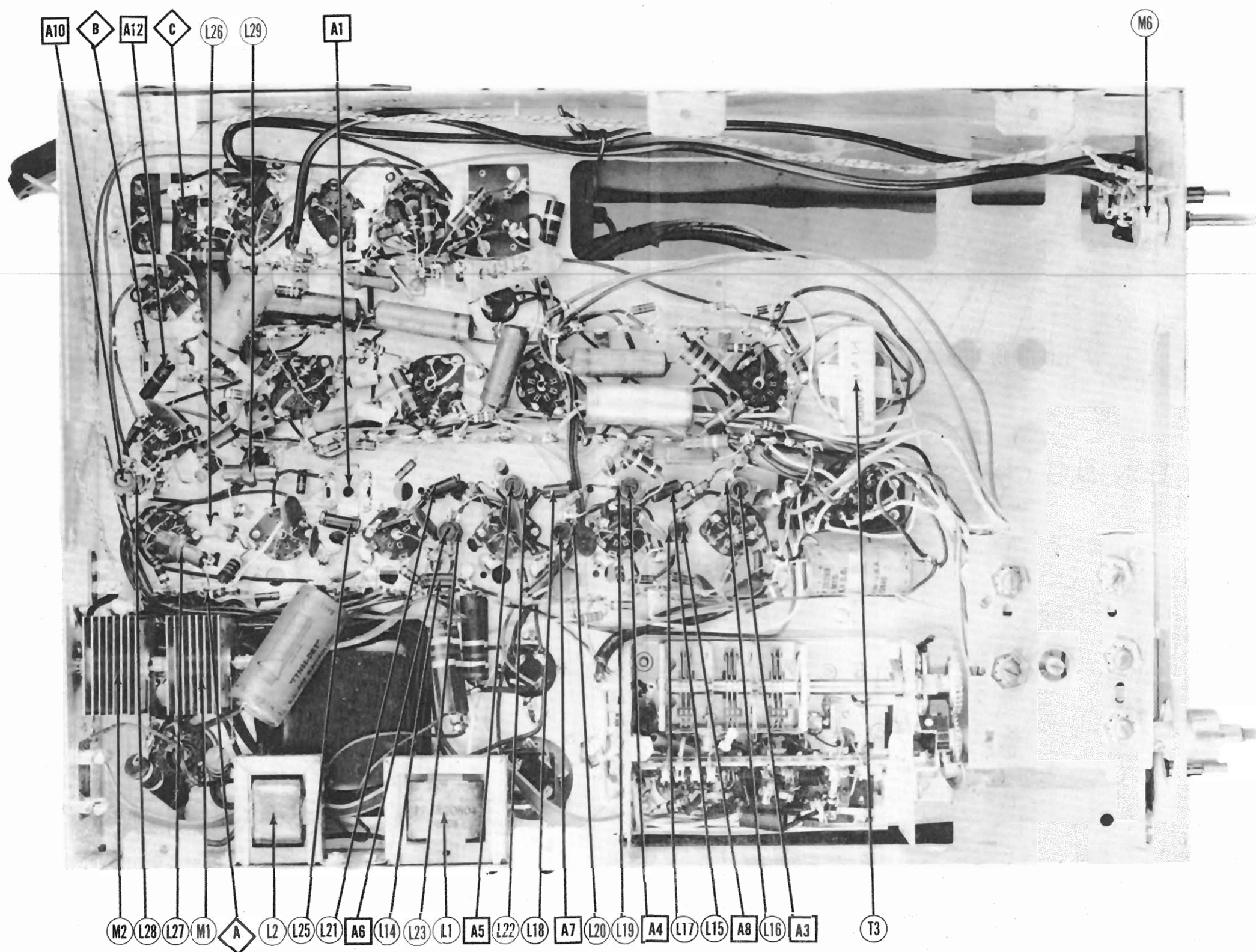
DEFLECTION SUB-CHASSIS



HIGH VOLTAGE SUPPLY -BOTTOM VIEW



SYLVANIA MODELS 1-075, 1-113,
1-114, 1-124, 1-125, 1-177
MAIN CHASSIS



CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

VOLTAGE AND RESISTANCE MEASUREMENTS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	-2VDC	0V.	6.3VAC	0V.	125VDC	125VDC	0V.		
V 2	6AG5	-2VDC	1.1VDC	6.3VAC	0V.	143VDC	143VDC	1.1VDC		
V 3	6J6	140VDC	95VDC	0V.	6.3VAC	-2.7VDC	8-2.7VDC	0V.		
V 4	6BA6	-3VDC	0V.	0V.	6.3VAC	120VDC	120VDC	1.4VDC		
V 5	6BA6	-2VDC	0V.	0V.	6.3VAC	130VDC	130VDC	1.4VDC		
V 6	6AU6	18VDC	0V.	0V.	6.3VAC	175VDC	175VDC	20VDC		
V 7	6AG5	0V.	2.4VDC	0V.	6.3VAC	175VDC	175VDC	2.4VDC		
V 8	6AL5	10V.	0V.	6.3VAC	0V.	0V.	0V.	1-3.2VDC		
V 9	6AQ5	1-3.2VDC	110VDC	0V.	6.3VAC	1105VDC	1123VDC	1-3.2VDC		
V 10	12AU7	1-25VDC 1-35VDC	1-6VDC	6.3VAC	6.3VAC	83VDC	83VDC	-12VDC	0V.	0V.
V 11	6AU6	-1VDC	-5VDC	0V.	6.3VAC	95VDC	95VDC	-5VDC		
V 12	6AU6	-3VDC	0V.	0V.	6.3VAC	7.7VDC	82VDC	0V.		
V 13	6AL5	3VDC	0V.	0V.	6.3VAC	3VDC	0V.	3VDC		
V 14	6AU6	-5VDC	0V.	0V.	6.3VAC	125VDC	30VDC	0V.		
V 15	6Y6G	0V.	0V.	145VDC	125VDC	0V.	0V.	6.3VAC	10VDC	
V 16	12AX7	1250VDC	140VDC	145VDC	0V.	0V.	1300VDC	140VDC	145VDC	6.3VAC
V 17	12AU7	1-20VDC	10V.	10V.	6.3VAC	255VDC	255VDC	2VDC	0V.	0V.
V 18	6AQ5	10V.	132VDC	0V.	6.3VAC	1290VDC	1290VDC	10V.		
V 19	6AL5	0V.	-7.8VDC	1.2VAC	6.3VAC	1VDC	0V.	0V.		
V 20	6AU6	-8VDC	0V.	0V.	6.3VAC	175VDC	175VDC	0V.		
V 21	12AU7	175VDC	-7.3VDC	1VDC	0V.	0V.	1250VDC	135VDC	135VDC	6.3VAC
V 22	6BD5GT	1-10VDC	0V.	10V.	0V.	*	0V.	6.3VAC	1200VDC	
V 23	6W4GT	0V.	0V.	*	185VDC	0V.	185VDC	*	*	
V 24	6SN7GT	1-15VDC	1300VDC	12.1VDC	1-15VDC	1300VDC	12.1VDC	0V.	6.3VAC	
V 25	1B3GT	* DO NOT MEASURE.								
V 26	7X6	6.3VAC	200VDC	210VAC	130VAC	130VAC	210VAC	200VDC	0V.	
V 27	5U4G	0V.	200VDC	0V.	220VAC	0V.	220VAC	0V.	200VDC	
V 28	10MP4	6.3VAC	-100VDC	PIN 11 -80VDC	PIN 12 0V.					

§ TAKEN WITH VACUUM TUBE VOLTMETER.
 ¶ MEASURED FROM PIN 3 OF V22.
 * DO NOT MEASURE
 † 6.3 VAC MEASURED ACROSS FILAMENTS.

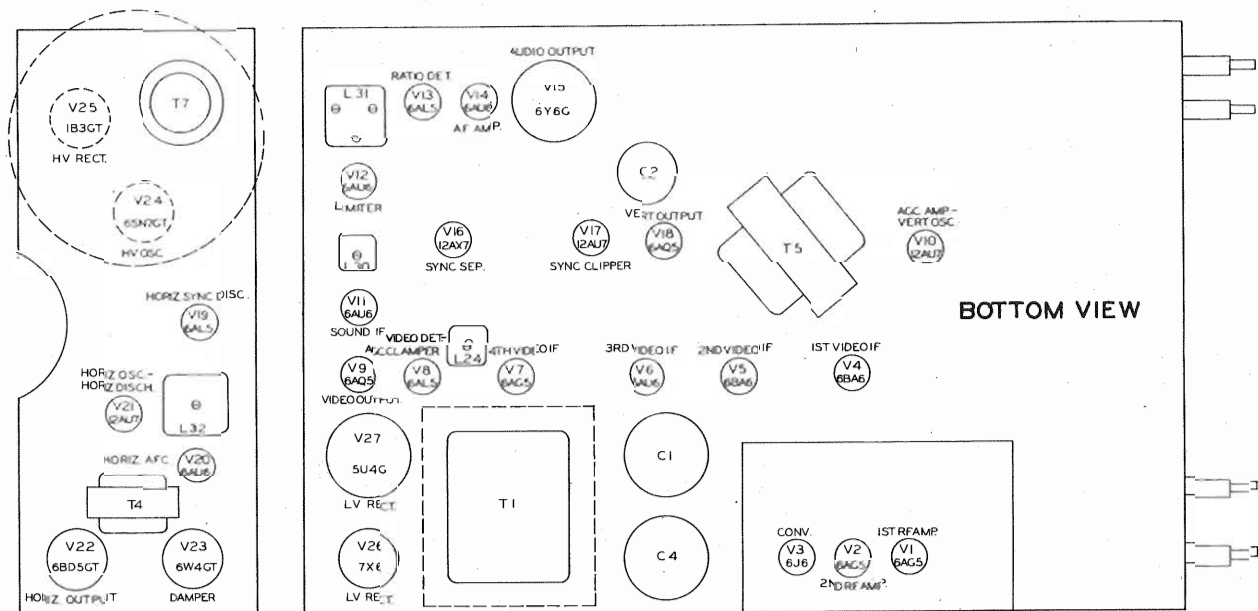
1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
2. Pin numbers are counted in a clock-wise direction on bottom of socket.
3. Measured values are from socket pin to common negative unless otherwise stated.

4. Line voltage maintained at 117 volts for voltage readings.
5. Front panel controls set at minimum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.

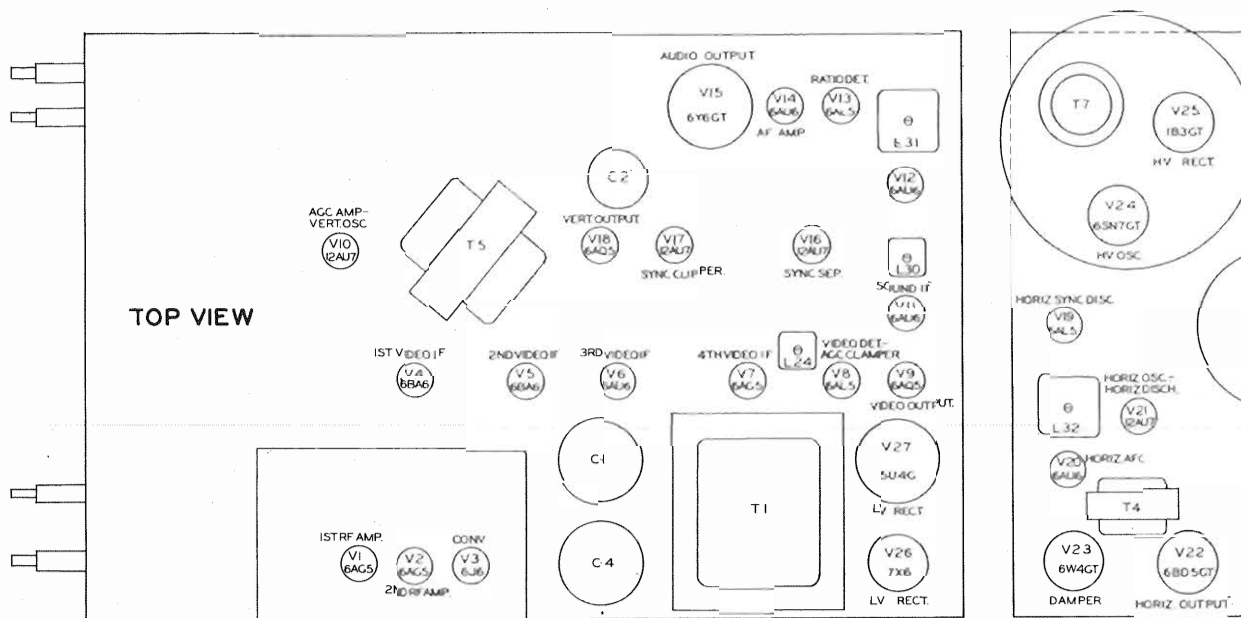
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6AG5	120KΩ	0Ω	.1Ω	0Ω	12.2KΩ	12.2KΩ	0Ω		
V 2	6AG5	10KΩ	100Ω	.1Ω	0Ω	11.2KΩ	11.2KΩ	100Ω		
V 3	6J6	11000Ω	110KΩ	0Ω	.1Ω	100KΩ	10KΩ	0Ω		
V 4	6BA6	27KΩ	0Ω	0Ω	.1Ω	14KΩ	14KΩ	82Ω		
V 5	6BA6	25KΩ	0Ω	0Ω	.1Ω	14KΩ	14KΩ	82Ω		
V 6	6AU6	4.7KΩ	0Ω	0Ω	.1Ω	1380Ω	1380Ω	2.2KΩ		
V 7	6AG5	.5Ω	150Ω	0Ω	.1Ω	1280Ω	1280Ω	150Ω		
V 8	6AL5	100Ω	25KΩ	.1Ω	0Ω	0Ω	3Ω	44KΩ		
V 9	6AQ5	4KΩ	1000Ω	0Ω	.1Ω	117KΩ	3Ω	44KΩ		
V 10	12AU7	320KΩ	41.3 Meg.	1.2KΩ	.1Ω	.1Ω	114KΩ	42.2Meg.	0Ω	0Ω
V 11	6AU6	47KΩ	68Ω	0Ω	.1Ω	10KΩ	10KΩ	68Ω		
V 12	6AU6	47KΩ	0Ω	0Ω	.1Ω	1100KΩ	122KΩ	0Ω		
V 13	6AL5	68KΩ	4Ω	0Ω	.1Ω	Inf.	0Ω	Inf.		
V 14	6AU6	10 Meg.	0Ω	0Ω	.1Ω	1100KΩ	11.5 Meg.	0Ω		
V 15	6Y6G	0Ω	0Ω	165Ω	16KΩ	470KΩ	Inf.	.1Ω	180Ω	
V 16	12AX7	1820KΩ	13KΩ	11 Meg.	0Ω	0Ω	118KΩ	13KΩ	42.2 Meg.	.1Ω
V 17	12AU7	1270KΩ	4.8 Meg.	10Ω	.1Ω	.1Ω	123KΩ	11.5 Meg.	0Ω	0Ω
V 18	6AQ5	42 Meg.	16KΩ	0Ω	.1Ω	11.8KΩ	11.8KΩ	11 Meg.		
V 19	6AL5	11 Meg.	1100Ω	0Ω	.1Ω	200KΩ	0Ω	1.1 Meg.		
V 20	6AU6	1.2 Meg.	0Ω	0Ω	.1Ω	1200Ω	12.4KΩ	0Ω		
V 21	12AU7	1190Ω	100KΩ	3Ω	0Ω	0Ω	1200KΩ	160KΩ	42.2 Meg.	.1Ω
V 22	6BD5GT	110 Meg.	0Ω	10Ω	Inf.	12.3KΩ	136Ω	Inf.	.1Ω	12.2KΩ
V 23	6W4GT	0Ω	Inf.	1340Ω	1120Ω	0Ω	185Ω	Inf.	Inf.	1200Ω
V 24	6SN7GT	13.9KΩ	180Ω	154Ω	14KΩ	180Ω	154Ω	0Ω	.1Ω	TOP CAP 1650Ω
V 25	1B3GT	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	Inf.	
V 26	7X6	.1Ω	32KΩ	190Ω	6Ω	6.5Ω	190Ω	32KΩ	0Ω	
V 27	8U4G	Inf.	32KΩ	Inf.	10.5Ω	Inf.	11Ω	Inf.		32KΩ
V 28	10W P4	1Ω	1 Meg.	PIN 11 3.3KΩ	PIN 12 0Ω					

† MEASURED FROM PIN 3 OF V27.
‡ MEASURED FROM PIN 3 OF V22.

† MEASURED FROM PIN 3 OF V27.
‡ MEASURED FROM PIN 3 OF V22.



TUBE PLACEMENT CHART



TOP VIEW

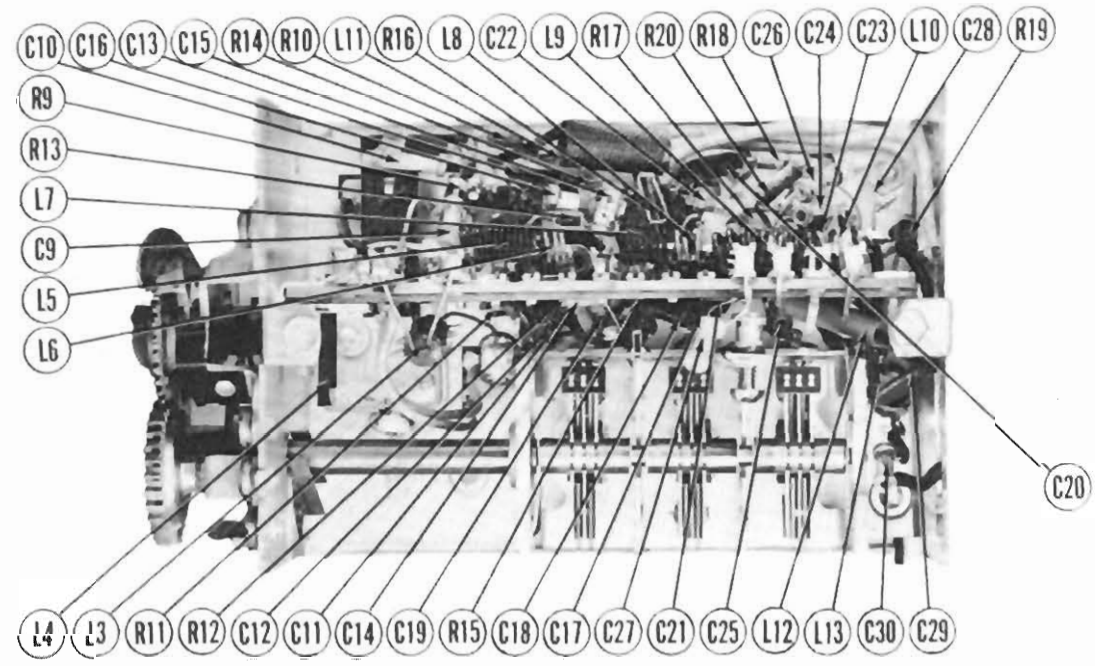
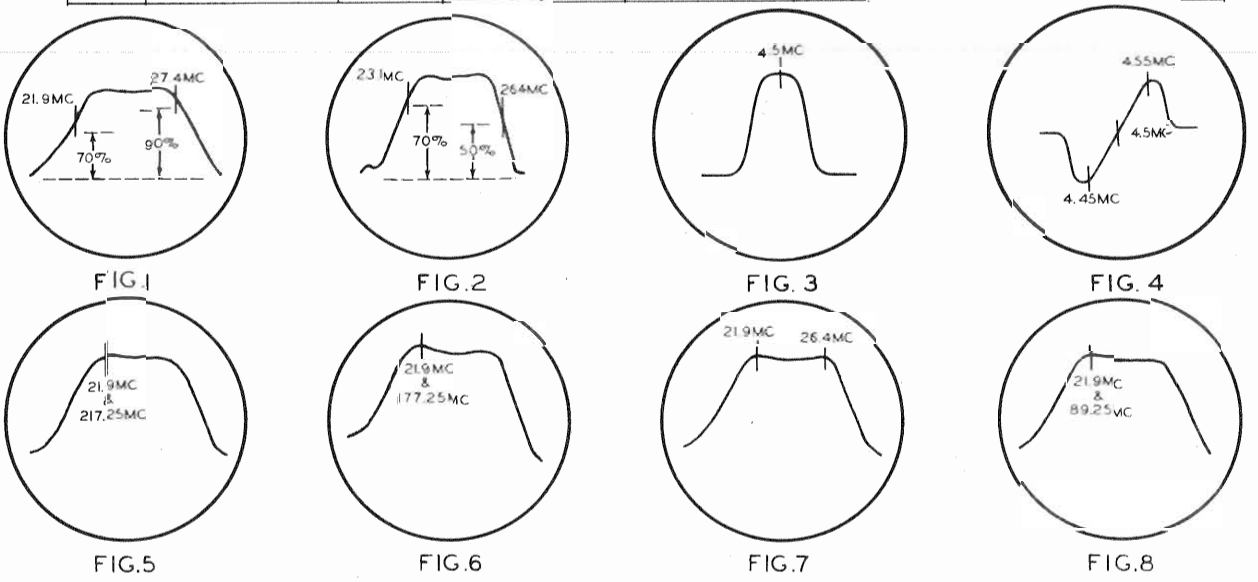
**SYLVANIA MODELS 1-075, 1-113,
1-114, 1-124, 1-125, 1-177**

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT							
The high voltage shock hazard may be eliminated by removing the high voltage oscillator tube (V24) from its socket.							
VIDEO IF ALIGNMENT							
Connect the negative lead of a 3 volt battery to the junction of R22 and C32, connect the positive lead to chassis. Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. Note that the common lead of the VTVM used during video IF alignment is -125 volts with respect to chassis, avoid touching or grounding the VTVM case. Remove the converter tube (V3) and replace it with a 6J6 which has had pin 1 removed.							
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1. .005MFD	High side to pin 1 (Grid) of 6AQ5 (V7). Low side to chassis.	24MC (10MC SWP)	27.4MC 21.9MC	Any	Vert. Amp. to Point Φ . Low side to chassis.	A1, A2	Adjust for response curve similar to Fig 1 with markers as shown.
2. Direct	High side to ungrounded tube shield floating over converter tube (V3). Low side to chassis.	Not used	20.4MC (Unmod.)	"	Use VTVM. DC Probe and common leads across R41. (See note above)	A3	Adjust for MINIMUM deflection.
3. Direct	"	"	21.9MC	"	"	A4	"
4. Direct	"	"	27.9MC	"	"	A5	"
5. Direct	"	"	26.3MC	"	"	A6	Adjust for maximum deflection.
6. Direct	"	"	23.4MC	"	"	A7	"
7. Direct	"	"	25.0MC	"	"	A8	"
8. Direct	"	"	24.3MC	"	"	A9	"
9. Direct	"	24MC (10MC SWP)	23.1MC 26.4MC	"	Vert. Amp. to Point Φ . Low side to chassis.		Check for response curve similar to Fig 2. If necessary retouch A6 thru A9 for proper response.
4.5MC TRAP ADJUSTMENT							
Pre-Set All maximum counter-clockwise. (fully out).							
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	CHANNEL	CONNECT * VTVM	ADJUST	REMARKS	
10. .005MFD	High side to pin 7 (Grid) of 6AQ5 (V9). Low side to chassis.	4.1MC (Unmod.)	Any	Connect high frequency probe to pin 1 (cathode) of picture tube (V28). Common to chassis.	A10	Adjust for maximum deflection.	
11. .005MFD	"	4.5MC (max. output).	"	"	All	Adjust for MINIMUM deflection.	
SOUND IF ALIGNMENT							
Connect the synchronized sweep voltage from the signal 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
12. .005MFD	High side to pin 1 (Grid) of 6AQ5 (V9). Low side to chassis.	4.5MC (10MC SWP)	4.5MC	Any channel not used locally	Vert. Amp. thru 40K Ω to Point Φ . Low side to chassis.	A12, A13	Adjust for maximum amplitude and symmetry as per Fig 3.
13. .005MFD	"	"	"	"	Vert. Amp. to Point Φ . Low side to chassis.	A14, A15, A16	Adjust for response curve similar to Fig 4. The response should be linear between 4.45 and 4.55MC.
RF TUNER ALIGNMENT							
Connect the three volt bias battery as outlined under video IF alignment. The two trimmer capacitors located near the front of the tuner are for the purpose of adjusting the antenna input circuit. These trimmers are pre-set and sealed at the factory, they should not be adjusted in the field. Remove the dummy converter tube and replace the original tube. The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms.							
HIGH BAND OSCILLATOR ALIGNMENT							
Turn the band selector switch to "high band," (counter-clockwise).							
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
14. Two 120 Ω carbon res.	Across antenna terminals with 120 Ω in each lead.	213MC (10MC SWP)	217.25MC 21.9MC	Turn tuning gang fully open	Vert. Amp. to Point Φ . Low side to chassis.	A17	Adjust so the 21.9MC and 217.25MC marker coincide at 100% response as shown in Fig 5.
15. "	"	177MC (10MC SWP)	177.25MC 21.9MC	Turn tuning gang fully closed	"	L10	Expand or compress coil turns so the 21.9MC and 177.25MC markers coincide at 100% response as shown in Fig 6. Repeat steps 14 and 15 until no further improvement can be made.
HIGH BAND RF ALIGNMENT							
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
16. Two 120 Ω carbon res.	Across antenna terminals with 120 Ω in each lead.	213MC (10MC SWP)	21.9MC 26.4MC	Turn tuning gang fully open	Vert. Amp. to Point Φ . Low side to chassis.	A18, A19	Adjust A18 for maximum amplitude at the 21.9MC point on response curve. Adjust A19 for maximum amplitude at the 26.4MC point on response curve. See Fig 7.
17. "	"	177MC (10MC SWP)	21.9MC 26.4MC	Turn tuning gang fully closed	"	L6, L8	Expand or compress turns of L6 for maximum amplitude at 21.9MC point on response curve and adjust L8 for maximum amplitude at 26.4MC point on response curve. See Fig 7.

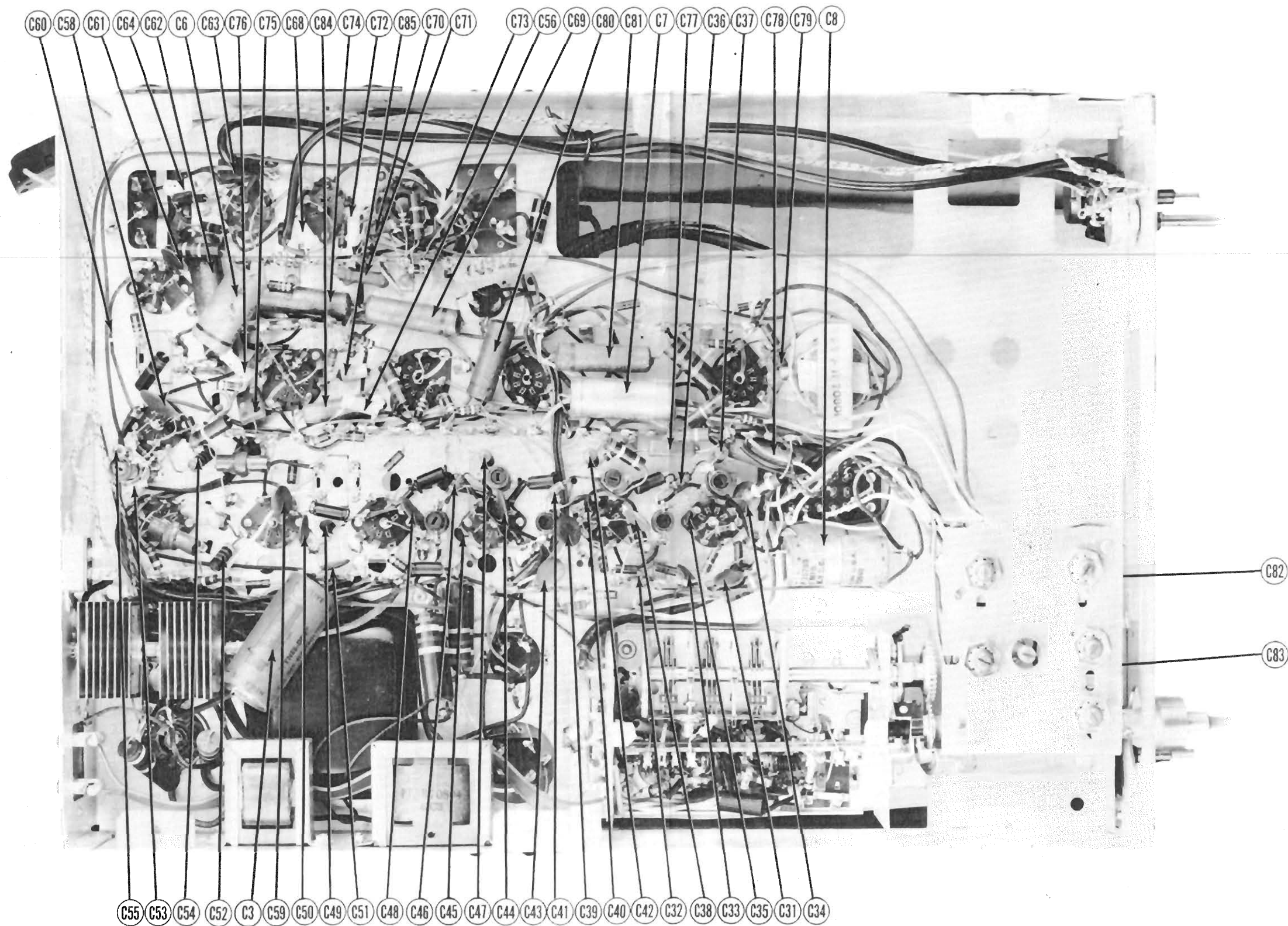
ALIGNMENT INSTRUCTIONS (CONT.)

LOW BAND OSCILLATOR ALIGNMENT							
Turn the band selector to "low band", (clockwise).							
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
18. Two 120 Ω carbon res.	Across antenna terminals with 120 Ω in each lead.	85MC (10MC SWP)	21.9MC 89.25MC	Turn tuning gang fully open	Vert. Amp. to Point Φ . Low side to chassis.	L9	Expand or compress coils turns so the 21.9 MC marker and 89.25MC marker coincide at 100% response as shown in Fig 8.
19. "	"	57MC (10MC SWP)	21.9MC 58.75MC	Turn tuning gang fully closed	"		Check the coincidence of the 21.9MC marker and 58.75MC marker. If they are not within 1/2 MC, it will be necessary to compromise between the high band and low band. There should be no more than 1/2 MC difference between the markers on any channel.
LOW BAND RF ALIGNMENT							
DUMMY ANTENNA	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
20. Two 120 Ω carbon res.	Across antenna terminals with 120 Ω in each lead.	85MC (10MC SWP)	21.9MC 26.4MC	Turn tuning gang fully open	Vert. Amp. to Point Φ . Low side to chassis.	L5, L7	Expand or compress turns of L5 for maximum response at 21.9MC point on response curve. Adjust turns of L7 for maximum amplitude at 26.4MC point on response curve. Check all low band channels, if the markers fall below 70% or the dip which may appear exceeds 30%, on any channel compromise adjustment of L5 and L7 will be required.

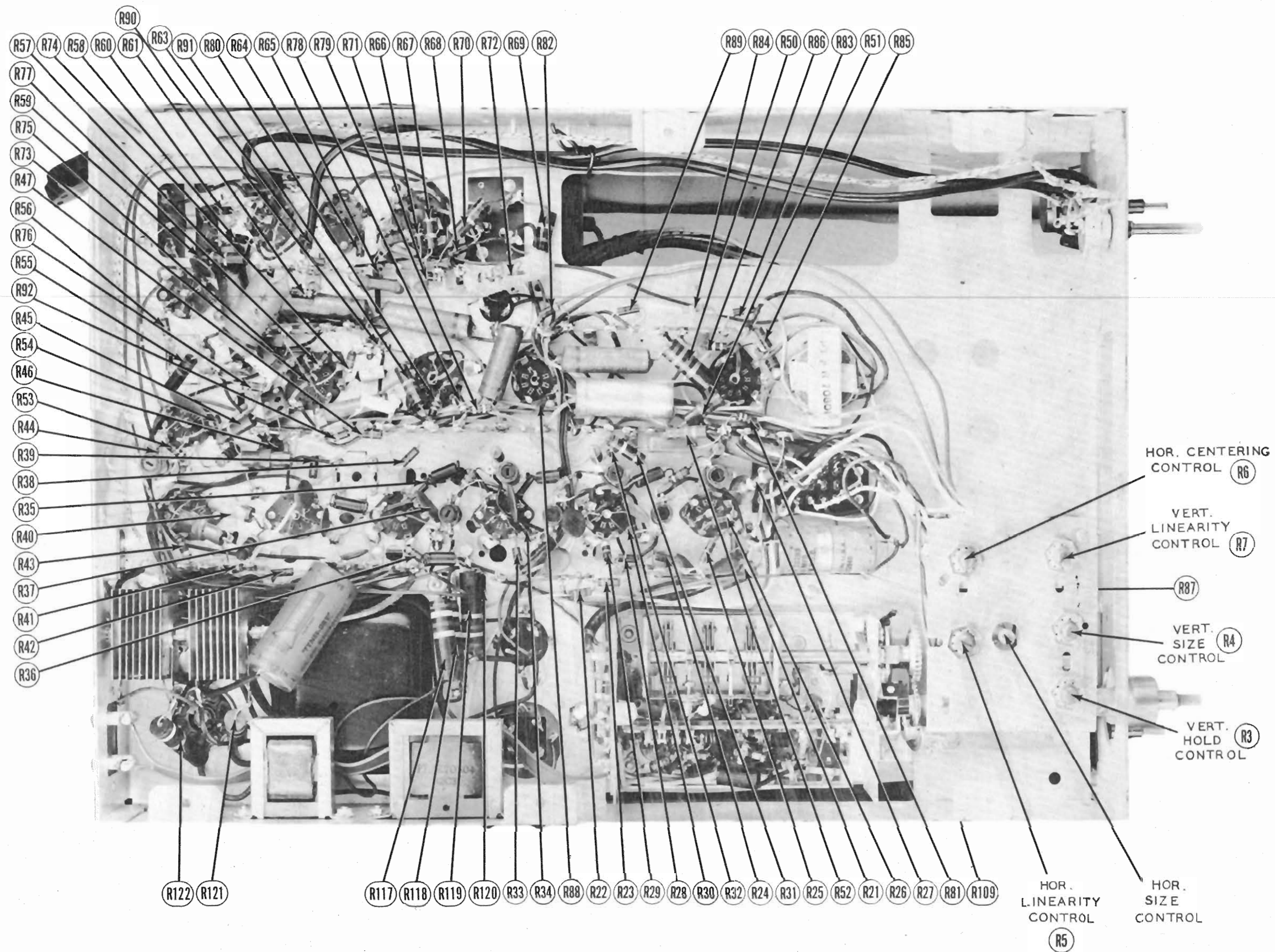


RF TUNER

SYLVANIA MODELS 1-075, 1-113, 1-114, 1-124, 1-125, 1-177



CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

SYLVANIA MODELS 1-075, 1-113,
1-114, 1-124, 1-125, 1-177

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF) CONT.

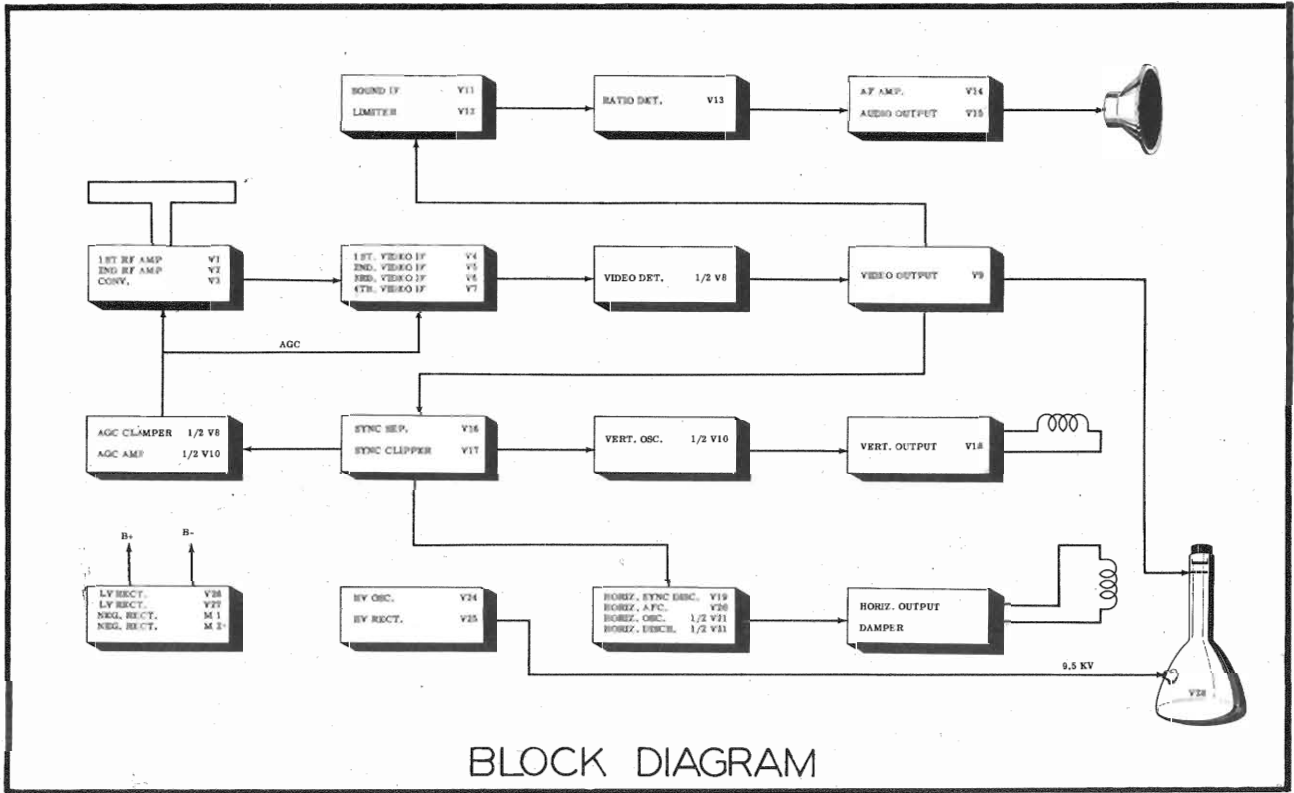
ITEM No.	USE	DC RES.		REPLACEMENT DATA		NOTES
		PRI.	SEC.	SYLVANIA PART No.	MEISSNER PART No.	
L16	Adjacent Channel Picture Trap	.1Ω		118-0003		
L17	2nd Video IF	.5Ω	.5Ω	125-0001		
L18	Fl. Choke	0Ω		147-0014		
L19	Sound Trap	.1Ω		118-0003		
L20	3rd Video IF	.5Ω	.5Ω	125-0001		
L21	Fl. Choke	0Ω		147-0014		
L22	Adjacent Channel Sound Trap	.1Ω		118-0003		
L23	4th Video IF	.5Ω	.5Ω	125-0001		
L24	5th Video IF	.3Ω	1.1Ω	120-0002		
L25	Fl. Choke	0Ω		147-0014		
L26	Peaking	5Ω		146-0001		
L27	Peaking	7.6Ω		146-0002		
L28	Sound Take-Off & 4.5MC					
L29	Trap	1.5Ω	5Ω	129-0001		
L30	Peaking	6.8Ω		146-0004		
L31	Sound IF	2.1Ω	2.1Ω	120-0001		
L32	Ratio Det.	2Ω	4.1Ω *	128-0002		* Resistance of entire secondary. Other secondary resistance is 10Ω
L33	Transformer Horiz. Sync.	66Ω	38Ω	128-0001		
L34	Disc. Trans.	36Ω		146-0005		
L35	RF Choke	0Ω		147-0014		
L36	HV Osc. Cath. Choke	53Ω		146-0006		
L36	Decoupling Choke	53Ω		146-0006		

SELENIUM RECTIFIER

ITEM No.	RATING CURRENT	REPLACEMENT DATA		NOTES
		SYLVANIA PART No.	SYLVANIA PART No.	
M1	.200A	517-0001	NF-5	
M2	.200A	517-0001	NF-5	

MISCELLANEOUS

ITEM No.	PART NAME	SYLVANIA PART No.	NOTES
M3	RF Tuner	323-0001	
M4	Fuse	191-0005	Type AGC, .25A
M5	Ion Trap	400-0002	Permanent Magnet
M6	Switch	571-0001	On-Off
M7	Ant. Assembly	582-0002	
M8	Focus Magnet Assembly	400-0001	
	Knob	743-0001	Channel Assembly
	Knob	740-0001	Inner-Shaft
	Knob	744-0005	Outer-Shaft



PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		SYLVANIA PART No.	STANDARD REPLACEMENT		
V1	1st RF Amp.	623-0001	6AG5	7BD	
V2	2nd RF Amp.	623-0001	6AG5	7BD	
V3	Converter	623-0002	6J6	7BF	
V4	1st Video IF	623-0004	6BA6	7BK	
V5	2nd Video IF	623-0004	6BA6	7BK	
V6	3rd Video IF	623-0005	6AU6	7BK	
V7	4th Video IF	623-0001	6AG5	7BD	
V8	Video Det. - AGC				
V9	Clamper	623-0003	6AL5	6BT	
V10	Video Output	623-0007	6AQ5	7BZ	
	Osc.	623-0006	12AU7	9A	
V11	Sound IF	623-0005	6AU6	7BK	
V12	Limiter	623-0005	6AU6	7BK	
V13	Ratio Det.	623-0003	6AL5	6BT	
V14	AF Amp.	623-0005	6AU6	7BK	
V15	Audio Output	622-0006	6V6G	7AC	
V16	Sync. Sep.	623-0008	12AX7	9A	
V17	Sync. Clipper	623-0006	12AU7	9A	
V18	Vert. Output	623-0007	6AQ5	7BZ	
V19	Hor. Sync. Disc.	623-0003	6AL5	6BT	
V20	Hor. AFC	623-0005	6AU6	7BK	
V21	Hor. Osc. - Hor. Disch.	623-0006	12AU7	9A	
V22	Hor. Output	622-0007	6BD5GT	6CK	
V23	Damper	623-0004	6W4GT	4CG	
V24	HV Oscillator	622-0005	6SN7GT	8BD	
V25	HV Rectifier	623-0002	1B3GT	3C	
V26	LV Rectifier	623-0003	7X6	7AJ	
V27	LV Rectifier	623-0003	5U4G	5T	
V28A	Picture Tube	642-0001	10MP4	12G	
B	Picture Tube	642-0002	12VP4	12G	

CAPACITORS

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

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		SYLVANIA PART No.	AEROVOX PART No.	ERIE PART No.	SPRAGUE PART No.	
C1A	80	161-4001	AF16128F4D		TVL-405	Filter
B	60					Decoupling
C	40					Filter
D	20					Output Decoupling
C2A	40	161-2001	AF83G4A		TVL-204	Filter
B	25					Output Cathode Bypass
C3	60	161-1003	PRS250/40		EL-6 *	Filter
C4A	10	161-4000	AF2J2G2E20B		TVL-404	Vert. Output Decoupling
BB	10					Vert. Osc. Decoupling
C	60					Filter
D	100					Vert. Output Cathode Bypass
C5	20	161-1005	PRS250/20		UT-202	Hor. AFC Screen Bypass
C6	2	161-1001	PRS150/4		TVA-12	Stabilizing Cap.
C7	10	161-1004	E26A23G		TVA-5	AGC Filter
C8	100	161-1002	PRS50/100		TVA-17	Hor. Cent. Cont. Bypass
C9	50		GP50M			RF Coupling
C10	1500		GP1500M			AGC Filter
C11	5000		BPD-5	GP1K-5C	29C1	1st RF Decoupling
C12	5000		BPD-5	811-005	29C1	1st RF Decoupling
C13	5000		BPD-5	811-005	29C1	1st RF Filament Bypass
C14	13		CN13JNPO	NPOK-13		Fixed Padder
C15	4.7		C14.7DNPO	NPOK-4.7		Fixed Padder
C16	100		GP100M	GP1K-100		Fixed Padder
C17	5000		BPD-5	811-005	29C1	2nd RF Decoupling
C18	5000		BPD-5	811-005	29C1	2nd RF Decoupling
C19	680		GP680M	GP2K-680		2nd RF Cathode Bypass
C20	5000		BPD-5	811-005	29C1	2nd RF Filament Bypass
C21	14		CN14JNPO	NPOK-14		Fixed Padder
C22	100		GP100M	GP1K-100		RF Coupling
C23	2.2		GP30K	GP1K-33		Osc. Coupling
C24	30		CN19JNPO	NPOK-20		Osc. Grid Cap.
C25	19		CN17.5JNPO	NPOK-17.5		Fixed Padder
C26	17.5		CN10DNPO	NPOK-10		Fixed Padder *
C27	10		CN10DNPO	NPOK-10		Fixed Trimmer
C28	10		BPD-5	811-005	29C1	RF Bypass
C29	5000		GP100M	GP1K-100		IF Coupling
C30	100		BPD-5	811-005	29C1	RF Bypass
C31	5000	166-5000D	BPD-5	811-005	29C1	AGC Filter
C32	5000	166-5000D	BPD-5	811-005	29C1	AGC Filter
C33	5000	166-5000D	BPD-5	811-005	29C1	AGC Filter
C34	5000	166-5000D	BPD-5	811-005	29C1	1st V. IF Decoupling
C35	1000	166-1000D	GP1000M	GP2L-001	29C4	1st V. IF Fil. Bypass
C36	.68	166-0004P				IF Coupling
C37	10	166-0010P	CN10DNPO	NPOK-10	MS-41	Fixed Padder
C38	5000	166-5000D	BPD-5	811-005	29C1	AGC Filter
C39	5000	166-5000D	BPD-5	811-005	29C1	2nd V. IF Decoupling
C40	1000	166-1000D	GP1000M	GP2L-001	29C4	2nd V. IF Fil. Bypass
C41	1.5	166-0010P	CN15CNPO	NPOK-1.5		IF Coupling
C42	10	166-0010P	CN10DNPO	NPOK-10	MS-41	Fixed Trimmer #
C43	5000	166-5000D	BPD-5	811-005	29C1	Bias Filter
C44A	4000	166-0003D	BPD-5	811-005	36C2	3rd V. IF Decoupling
B	4000		BPD-5	811-005		3rd V. IF Cathode Bypass
C45	1000	166-1000D	GP1000M	GP2L-001	29C4	3rd V. IF Filament Bypass
C46	.68	166-0004P				IF Coupling
C47	6	166-0006P	CN4CNPO	NPOK-6.8		Fixed Trimmer &
C48A	4000	166-0003D	BPD-5	811-005	36C2	4th V. IF Decoupling
B	4000		BPD-5	811-005		4th V. IF Cathode Bypass
C49	1000	166-1000D	GP1000M	GP2L-001	29C4	4th V. IF Fil. Bypass
C50	5000	166-5000D	BPD-5	811-005	29C1	RF Bypass
C51	5000	166-5000D	BPD-5	811-005	29C1	RF Bypass
C52	10	166-0010P	GP10K	NPOK-10	MS-41	V. Diode Filter
C53	5	166-0005P	CN5DNPO	NPOK-5	MS-55	S. IF Coupling

SYLVANIA MODELS 1-075, 1-113, 1-114, 1-124, 1-125, 1-177

PARTS LIST AND DESCRIPTIONS (Continued)

CAPACITORS (CONT.)

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		SYLVANIA PART No.	AEROVOX PART No.	ERIE PART No.	SPRAGUE PART No.	
C54	10	166-0010P	CN10DNPO	NPOK-10	MS-41	Fixed Trimmer
C55	56	166-0050N	CN56JNPO	NPOM-50	MS-45	Fixed Trimmer
C56	10000	166-0002N	GP10000M		TM-11	Pic. Tube Grid Filter
C57	5000	166-5000D	BPD-5	811-005	29C1	RF Bypass
C58A	4000	166-0003D	BPD-5	811-005	36C2	1st S. IF Decoupling
C59	5000	166-5000D	BPD-5	811-005	29C1	1st S. IF Cathode Bypass
C60	50	166-0050N	GP50M	GP1K-50	1FM-45	V. Det. -AGC Clamp Fil. Bypass
C61	5000	166-5000D	BPD-5	811-005	29C1	2nd S. IF Grid Filter
C62	.2	162-0402	P488-22		TC-2	2nd S. IF Plate Decoupling
C63	880	163-0680	GP680M	GP2K-680	1FM-37	De-emphasis
C64	10000	166-0002N	GP10000M	821-01	TM-11	Audio Coupling
C65	50	163-0050	1468-00005	GP1K-50	1FM-45	Tone Compensation †
C66	200	163-0200	GP10000M	GP2K-200	1FM-32	Tone Compensation †
C67	10000	166-0002N	GP10000M	821-01	TM-11	Audio Coupling
C68	10000	166-0002N	GP10000M	821-01	TM-11	AF Amp. Screen Bypass
C69	.1	162-0601	P288-1		TM-1	AF Amp. Plate Bypass
C70	100	166-0100P	GP100M	GP1K-100	1FM-31	Tone Compensation †
C71	2000	166-2000P	GP2000M	GP2M-002	1FM-23	Audio Coupling
C72	10000	166-0002N	GP10000M	821-01	TM-11	Output Plate DBypass
C73	10000	166-0002N	GP10000M	821-01	TM-11	Vert. Sync. Sep. Cathode Bypass
C74	.1	162-0601	P288-1		TM-1	Vert. Sync. Sep. Plate Bypass
C75	220	163-0220	1468-00025	GP2K-220	1FM-325	Vert. Sync. Coupling
C76	10000	166-0002N	GP10000M	821-01	TM-11	Vert. Sync. Coupling
C77	1000	163-1000	1468-001	GP2L-001	1FM-21	Vert. Osc. Grid Cap.
C78	.015	162-04115	1468-015			Decoupling
C79	250	166-0250P	GP250M	GP2K-250	1FM-325	Vert. Sweep Coupling
C80	.05	162-0615	P288-05		TM-15	Vert. Discharge
C81	.1	162-0601	P288-1		TM-1	Vert. Sweep Coupling
C82	.1	162-0601	P288-1		TM-1	Vert. Discharge
C83	.02	162-0612	P488-02		TM-12	Hor. Sync. Sep. Cathode Bypass
C84	.002	162-0622	P688-002	GP2M-002	TM-22	Hor. Sync. Coupling
C85	500	166-0500P	GP500M	GP1K-500	1FM-35	Hor. Sync. Coupling
C86	100	166-0100P	GP100M	GP1K-100	1FM-31	Hor. Sync. Coupling
C87	.005	162-0625	P688-005	811-005	TM-25	Fixed Trimmer
C88	10000	166-0002N	GP10000M	821-01	TM-11	AF Filter
C89	.2	162-0402	P488-22		TC-2	AF Filter
C90	.015	160-42115	P488-015			Fixed Trimmer
C91	100	166-0100P	GP100M	GP1K-100	1FM-31	Phase Shifter
C92	5000	166-5000D	BPD-5	811-005	29C1	Hor. Osc. Grid Cap.
C93	10000	166-0002N	GP10000M	821-01	TM-11	Hor. Sweep Coupling
C94	10000	166-0002N	GP10000M	821-01	TM-11	Hor. Discharge Cathode Bypass
C95	680	163-0680	BPD-5	GP2K-680	1FM-37	Hor. Discharge
C96	5000	166-5000D	BPD-5	811-005	29C1	Hor. Discharge Plate Decoupling
C97	1000	166-1000D	GP1000M	GP2L-001	1FM-21	Hor. Sweep Coupling
C98	50	162-0050	1468-00005	GP1K-50	1FM-45	RF Bypass
C99	.1	162-0601	P688-1		TM-1	RF Bypass
C100	.2	162-0402	P488-22		TC-2	RF Bypass
C101	.05	162-0615	P288-05		TM-15	Fixed Trimmer
C102	1500	163-1500	1467-1500	GP2L-0015	1FM-215	Fixed Trimmer
C103	5000	166-5000D	BPD-5	811-005	29C1	HV Osc. Grid Cap.
C104	.022	160-42122	P488-022		TM-12	HV Osc. Cathode Bypass
C105	.0005	160-14350			TVM-351	HV Filter

- * Use mounting strap.
† Some models use 13MMF in this application.
‡ Items C67 and R62 are combined into one unit obtainable under MFGR'S Part No. 190-0002.
§ Not used in model 1-177.
¶ Model 1-177 uses 8MMF in this application. MFGR'S Part No. 166-0006N.
‡ Model 1-177 uses 4.7MMF in this application. MFGR'S Part No. 166-0006N.

CONTROLS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA			INSTALLATION NOTES
		SYLVANIA PART No.	IRC PART No.	CLAROSTAT PART No.	
R1A	1 Meg.	154-0001		73729	Volume Control, panel, tapped at 200KΩ and 350KΩ Note 2
R1B	1 Meg.	155-0003		73810	Tone Control, rear-See note 2
R2A	1000Ω				Contrast Control, panel-Wire Wound-See Note 3
R3	100KΩ				Brightness Control-Rear
R4	1 Meg.	153-0001	Q11-137	73819	Vert. Hold Control
R5	1 Meg.	153-0001	Q11-137	73818	Vert. Size Control
R6	500KΩ	153-0002	Q11-133	M-58-S	Horiz. Linearity Control
R7	140Ω	153-3002		73824	Horiz. Centering Control, tapped at 70Ω, Wire Wound
R8	5000Ω		W-5000	41-5000	Vert. Linearity Control-Wire Wound-See Note 1
R9	2000Ω	153-3001	W-2000	73823	Horiz. Size Control-Wire Wound

- Note 1. Some models use 1000Ω, 2 watt control, Part No. 153-3000.
Note 2. Model 1-177 does not use a tone control, the volume control Part No. 152-0007.
Note 3. Model 1-177 use a single contrast control Part No. 153-3003, and a single brightness control Part No. 153-0005.

RESISTORS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		SYLVANIA PART No.	IRC PART No.	
R9	560Ω			ALL RESISTORS ARE ± 10% UNLESS OTHERWISE SPECIFIED.
R10	150Ω			1st RF Grid
R11	1200Ω		BTS-1200	AGC Network
R12	1000Ω		BTS-1000	1st RF Plate
R13	100Ω			1st RF Decoupling
R14	100Ω			2nd RF Grid
R15	1500Ω		BTS-1500	2nd RF Cathode
R16	220Ω 20%			2nd RF Plate
R17	5600Ω		BTS-5600	2nd RF Decoupling
R18	100KΩ 20%		BTS-100K	Conv. Grid
R19	10KΩ		BTS-10K	Conv. Plate Decoupling
R20	10KΩ 20%		BTS-10K	Osc. Grid
R21	1000Ω	183-0102	BT-2-1000	Decoupling
R22	3.3 Meg.	181-0335	BTS-3.3 Meg.	Voltage Divider
R23	100KΩ	181-0104	BTS-100K	AGC Network
R24	1000Ω 20%	181-0102	BTS-1000	AGC Network
R25	1500Ω	181-0152	BTS-1500	1st Video IF Grid

RESISTORS (CONT.)

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		SYLVANIA PART No.	IRC PART No.	
R26	82Ω		181-0820	1st Video IF Cathode
R27	3900Ω		BTS-3900	1st Video IF Decoupling
R28	1000Ω 20%		BTS-1000	AGC Network
R29	2700Ω		BTS-2700	2nd Video IF Transformer Shunt
R30	82Ω		181-0820	2nd Video IF Cathode
R31	3900Ω		BTA-3900	2nd Video IF Decoupling
R32	39KΩ		181-0393	IF Trap Coil Shunt
R33	15KΩ		181-0153	3rd Video IF Transformer Shunt
R34	2200Ω		181-0222	3rd Video IF Cathode
R35	100Ω 20%		181-0101	3rd Video IF Decoupling
R36	15KΩ		181-0153	4th Video IF Transformer Shunt
R37	150Ω		181-0151	4th Video IF Cathode
R38	100Ω 20%		181-0101	4th Video IF Decoupling
R39	5600Ω		181-0562	5th Video IF Transformer Shunt
R40	22KΩ 5%		181-02235	Peaking Coil Shunt
R41	3900Ω 5%		181-0392	Video Det. Diode Load
R42	100Ω 20%		181-0101	Bias Network
R43	68Ω		181-0680	Video Output Cathode
R44	6800Ω		181-0682	Sound Take-Off Coil Shunt
R45	100KΩ 20%		182-0104	Video Output Plate
R46	3300Ω		182-0332	Picture Tube Cathode
R47	1 Meg. 20%		181-0105	Voltage Divider
R48	33KΩ		181-0333	Voltage Divider-See Note 4
R49	1 Meg.		181-0105	AGC Amp. Grid-See Note 5
R50	18KΩ 5%		183-01835	AGC Amp. Plate
R51	10KΩ 5%		182-0103	AGC Network
R52	22KΩ 5%		182-02235	Voltage Divider
R53	47KΩ 20%		181-0473	Sound IF Grid
R54	68Ω		181-0680	Sound IF Cathode
R55	10KΩ 20%		182-0103	Sound IF Decoupling
R56	47KΩ 20%		181-0473	Limiter Grid
R57	39KΩ		182-0393	Limiter Screen
R58	100KΩ 20%		181-0104	Limiter Plate Decoupling
R59	33KΩ 20%		181-0333	Voltage Divider
R60	100KΩ 20%		181-0104	De-emphasis
R61	68KΩ 20%		181-0683	Disc. Diode Load
R62	82KΩ		BTS-82K	Tone Compensation-See Note 6
R63	10 Meg. 20%		181-0104	AF Grid
R64	1.5 Meg. 20%		181-0155	AF Screen
R65	100KΩ 20%		181-0104	AF Plate
R66	470KΩ 20%		BTS-470K	Output Grid
R67	180Ω		182-0181	Output Cathode
R68	68Ω		181-0680	Parasitic Supp.
R69	5600Ω		BT-2-5600	Bias Network
R70	22KΩ		BTA-22K	Bias Network
R71	4700Ω		BTS-4700	Voltage Divider
R72	400Ω		AB-400	Filter-Wire Wound
R73	10KΩ 20%		BTS-10K	Sync. Sep. Grid
R74	18KΩ		BTS-18K	Sync. Sep. Plate
R75	10KΩ 20%		BTS-10K	Sync. Sep. Grid
R76	820KΩ		BTS-820K	Sync. Sep. Plate
R77	1 Meg.		181-0105	Bias Network
R78	820KΩ		BTS-820K	Sync. Clipper Grid
R79	3.9 Meg.		BTS-3.9 Meg.	Sync. Clipper Grid
R80	270KΩ		BTS-270K	Sync. Clipper Plate
R81	270KΩ		BTS-270K	Vert. Osc. Grid
R82	1200Ω		BTS-1200	Bias Network
R83	220KΩ 20%		BTS-220K	Vert. Osc. Plate
R84	100KΩ 20%		BTS-100K	Vert. Osc. Plate Decoupling
R85	22KΩ 20%		BTS-22K	Vert. Osc. Transformer Shunt
R86	3900Ω 5%		BTS-3900-5%	Vert. Peaking
R87	1 Meg.		BTS-1 Meg.	Vert. Output Grid
R88	1000Ω 20%		BTS-1000	Vert. Output Cathode
R89	1000Ω 20%		BTS-1000	Vert. Output Decoupling
R90	1.5 Meg.		BTS-1.5 Meg.	Sync. Clipper Grid
R91	22KΩ		BTA-22K	Sync. Clipper Plate
R92	2.2 Meg.		BTS-2.2 Meg.	Bias Network
R93	100KΩ 5%		BTS-100K-5%	Bias Network
R94	33KΩ 5%		BTS-33K-5%	Voltage Divider
R95	10 Meg. 5%		181-0106	Voltage Divider
R96	10 Meg. 20%		BTS-10 Meg. 5%	Horiz. Sync. Disc. Load
R97	100KΩ		BTS-100K	Horiz. Sync. Disc. Load
R98	100KΩ		BTS-100K	Horiz. Sync. Disc. Load
R99	1 Meg. 5%		BTS-1 Meg. 5%	Horiz. AFC Filter Network
R100	8200Ω		BTS-8200	Horiz. AFC Filter Network
R101	1000Ω 20%		BTS-1000	Horiz. AFC Grid
R102	2200Ω 20%		BTS-2200	Horiz. AFC Screen
R103	100KΩ 20%		BTS-100K	Horiz. Osc. Grid
R104	22KΩ 20%		BTS-22K	Ringing Coil Shunt
R105	2.2 Meg. 20%		BTS-2.2 Meg.	Horiz. Discharge Grid
R106	56KΩ		181-0563	Horiz. Discharge Cathode
R107	39KΩ		181-0393	Horiz. Discharge Plate
R108	4700Ω		181-0472	Horiz. Peaking
R109	390KΩ		181-0394	Voltage Divider
R110	82Ω		181-0820	Parasitic Supp.
R111	10 Meg.		181-0106	Horiz. Output Grid
R112	3900Ω		181-0392	HV Osc. Grid
R113	100Ω 20%		181-0101	Parasitic Supp.
R114	2.6Ω			HV Rect. Filament-Wire Wound
R115	470KΩ 20%		181-0474	HV Filter
R116	4.3Ω		189-0007	Horiz. Disc. Filament-Wire Wound
R117	390Ω		183-0391	Surge Limiter
R118	390Ω		183-0391	Surge Limiter
R119	390Ω		183-0391	Surge Limiter
R120	390Ω		183-0391	Surge Limiter
R121	39Ω		183-0390	Surge Limiter
R122	39Ω		183-0390	Surge Limiter

- Note 4. Some models use 56KΩ resistor in this application.
Note 5. Not used in all models.
Note 6. Items C67 and R62 are combined into one unit, obtainable under MFGR'S Part No. 190-0002

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	SYLVANIA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T1	117VAC 2.19A	530VCT 3.5Ω 360VCT 2.00	5VAC 3A	6.3VAC 11.8A	141-0008			

TRANSFORMER (ISOLATION)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	SYLVANIA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T2	6.3VAC 1.66A	6.3VAC 1.2A			240-0001		P-2944	

TRANSFORMER (SWEEP CIRCUITS)

ITEM No.	RATING		REPLACEMENT DATA				NOTES
	DC RESISTANCE		SYLVANIA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.					
T3	170Ω	575Ω	242-0001	A-8111	A-3000	TBO-1	Vert. Block Osc. Trans.
T4	160Ω		241-0002				Hor. Output Choke
	120Ω						
T5	620Ω		241-0001	A-8112 ②	A-3037	TSO-5	Vert. Output Trans.
	7ap ④						
	6.1Ω						
T6A	36Ω		100-0001				Hor. Deflection Coil
R	60Ω						Vert. Deflection Coil