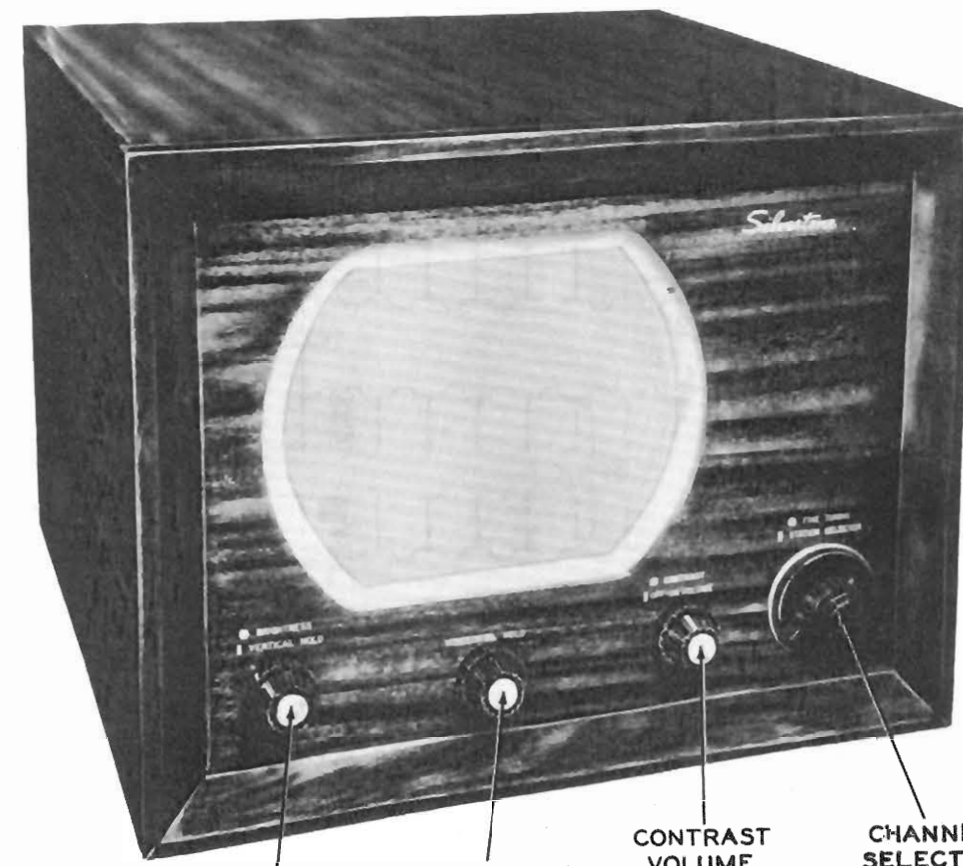


BLOCK DIAGRAM



BRIGHTNESS VERT. HOLD
HORIZ. HOLD
CONTRAST VOLUME ON-OFF SWITCH
CHANNEL SELECTOR FINE TUNING

MODEL 9123

| | | | |
|-----------------------|---|--------|--------------------------|
| TRADE NAME | Silverstone, Models 9123 (Ch. 110.499) 9124 (Ch. 110.499-1), 9126 (Ch. 110.499-2) | | |
| SUPPLIER | Sears, Roebuck and Co., 925 S. Homan St., Chicago, Illinois | | |
| TYPE SET | Television Receiver | | |
| TUBES | Twenty One | | |
| POWER SUPPLY | 110-120 Volts AC 60 Cycle | | |
| TUNING RANGE-Channels | 2 thru 13 | RATING | 1.75 Amp. @ 117 Volts AC |

| INDEX | | | |
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| Alignment Instructions | 6,7,8 | Photographs (continued) | |
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| Disassembly Instructions | 19 | Resistor Identification | 12,17 |
| Horizontal Sweep Circuit Adj. | 19 | Trans., Inductor and Alignment Identification | 4,9 |
| Parts List and Description | 14,15,16 | Schematic (Main) | 2 |
| Photographs | | Schematic (Tuner #2) | 8 |
| Cabinet-Rear View | 19 | Tube Placement Chart | 13 |
| Capacitor Identification | 11,18 | Voltage and Resistance Measurements | 5 |
| Chassis-Top View | 3 | | |

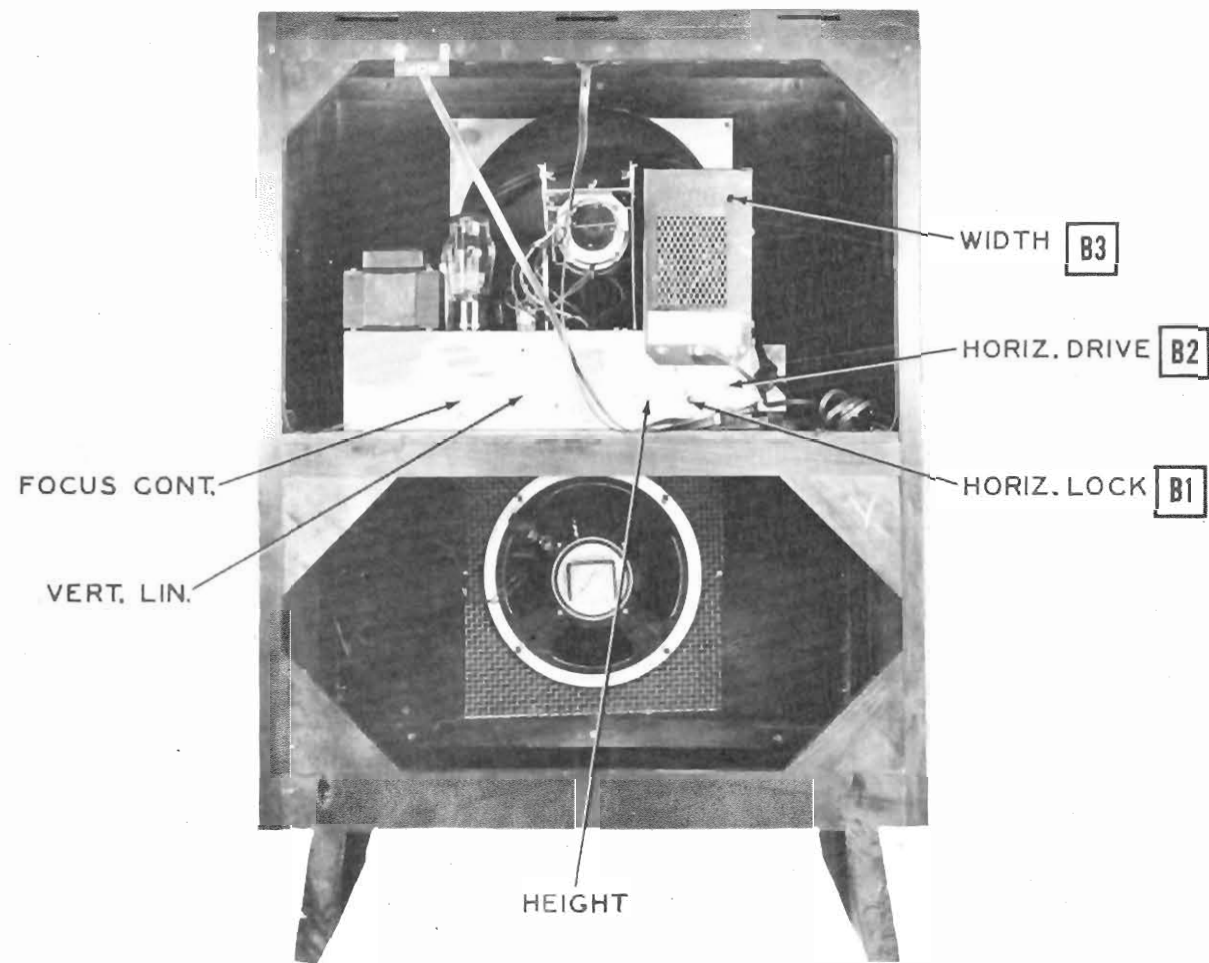
HOWARD W. SAMS & CO., INC. • Indianapolis 7, Indiana

"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."

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DATE 12/49 SET # 79 FOLDER # 16

SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch.110.499-1),
9126 (Ch. 110.499-2)



CABINET-REAR VIEW

DISASSEMBLY INSTRUCTIONS

1. Remove 5 push-on type knobs from controls.
2. Remove 10 screws holding rear cover. Remove cover.
3. Remove speaker plug from top left side of TV chassis.
4. Disconnect two antenna plugs.
5. Remove four 7/16" hex head bolts holding TV chassis to cabinet. Remove TV chassis.
6. Remove four 11/32" hex nuts holding speaker to cabinet. Remove speaker.

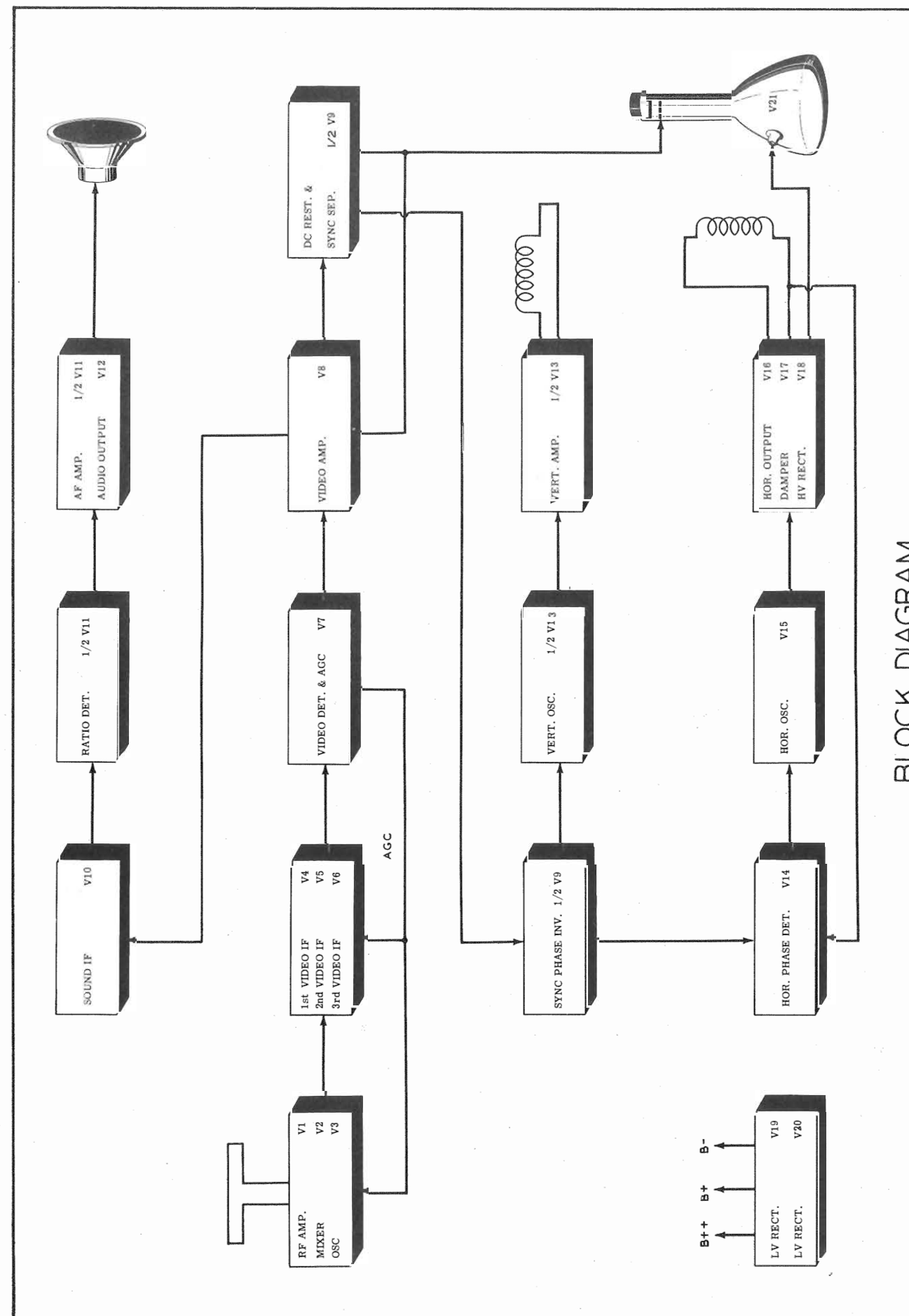
HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the receiver on and tune in a test pattern. Turn vertical hold control to sync picture vertically.

Turn the horizontal hold control to the mid-position of its range. Adjust B1 until picture syncs normally in the horizontal plane.

Adjust B2 for the best compromise between brightness and horizontal linearity.

Adjust B3 so that picture fills the mask horizontally.



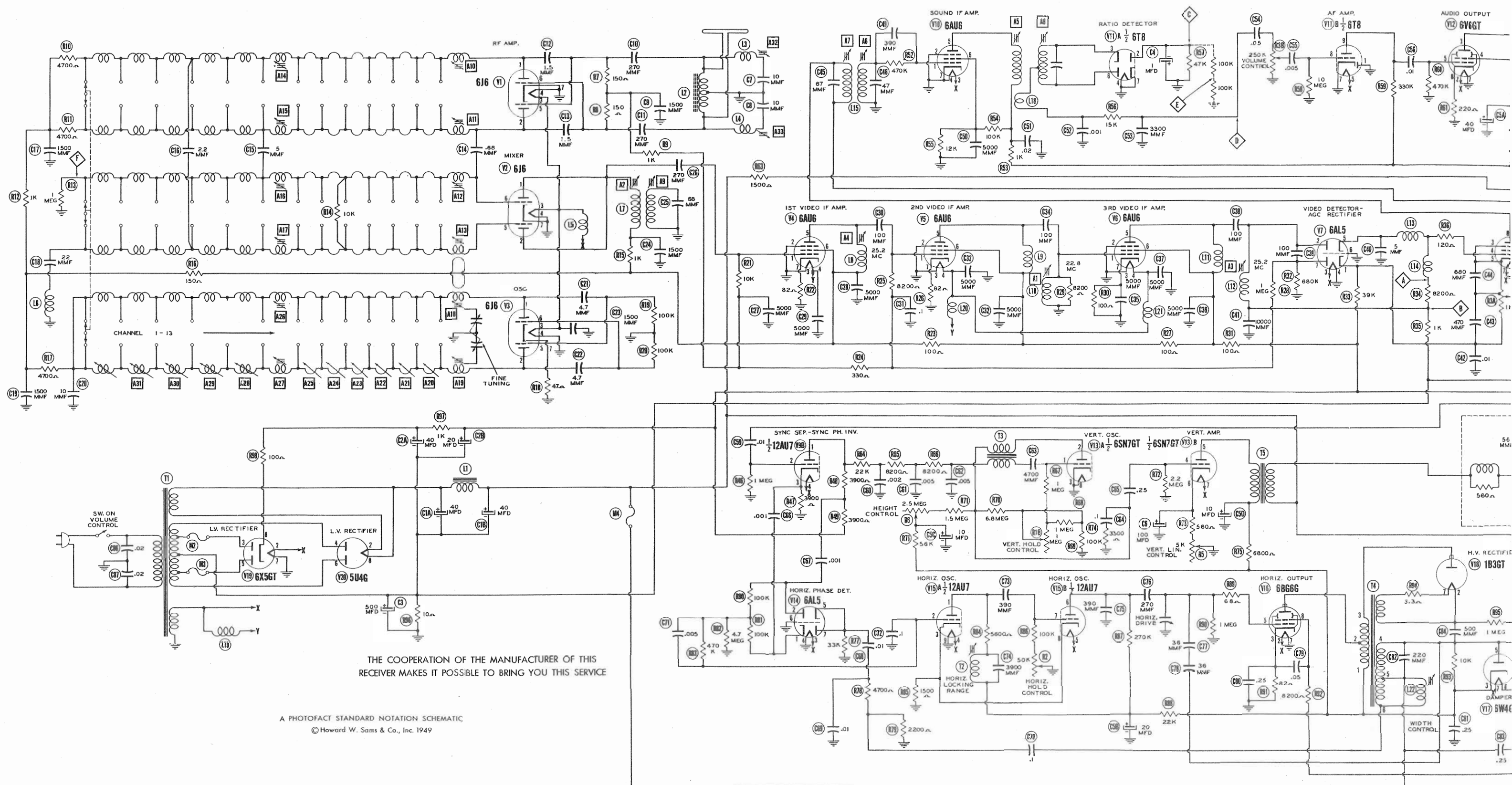
BLOCK DIAGRAM

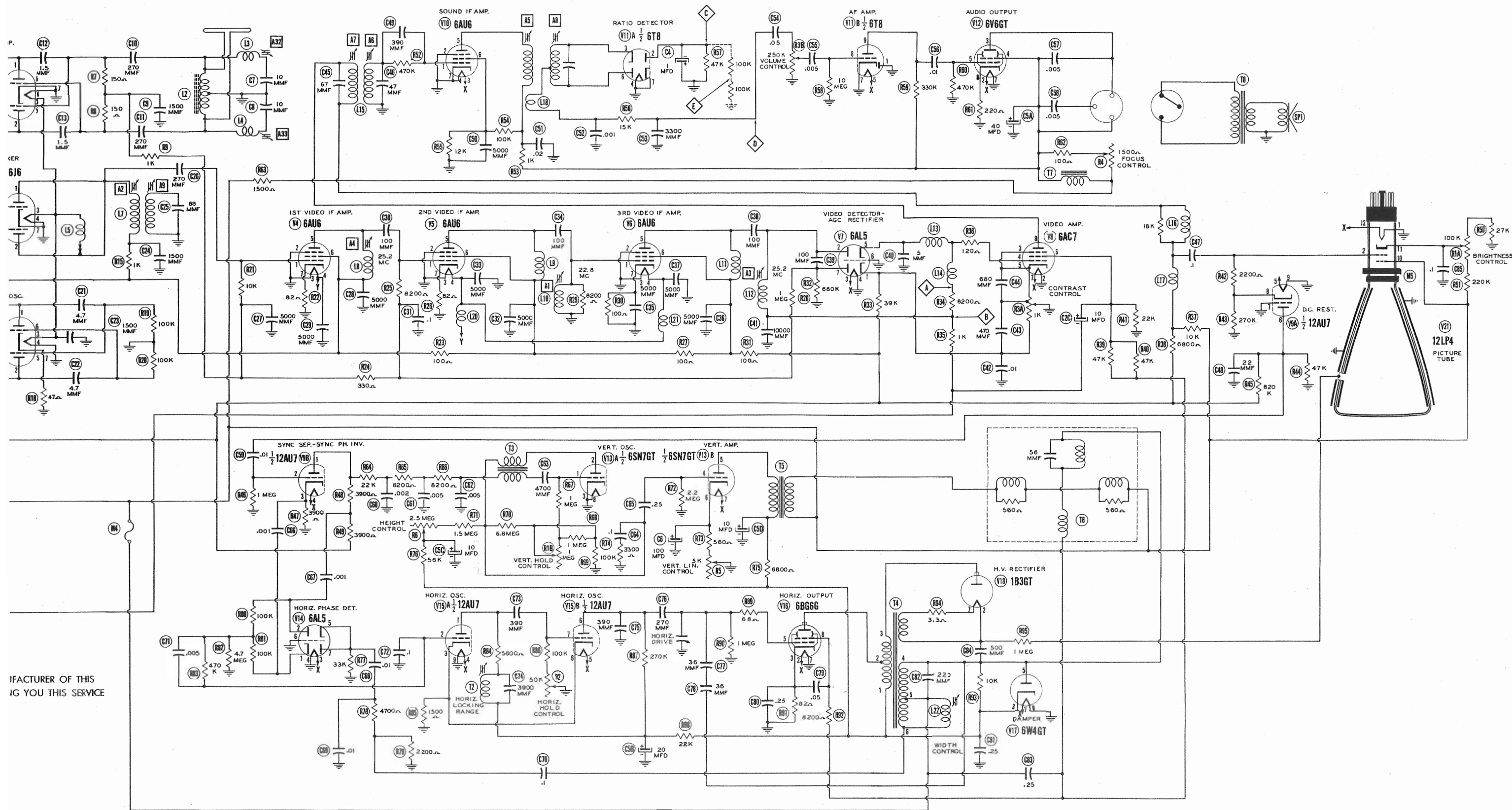
| | |
|--------------|---------|
| TRADE NAME | Silver |
| SUPPLIER | Sears, |
| TYPE SET | Televi |
| TUBES | Twenty |
| POWER SUPPLY | 110-12 |
| TUNING RANGE | Channel |

Alignment Instruction
Block Diagram
Disassembly Instructi
Horizontal Sweep Circ
Parts List and Descri
Photographs
Cabinet-Rear View
Capacitor Identifi
Chassis-Top View

HOW

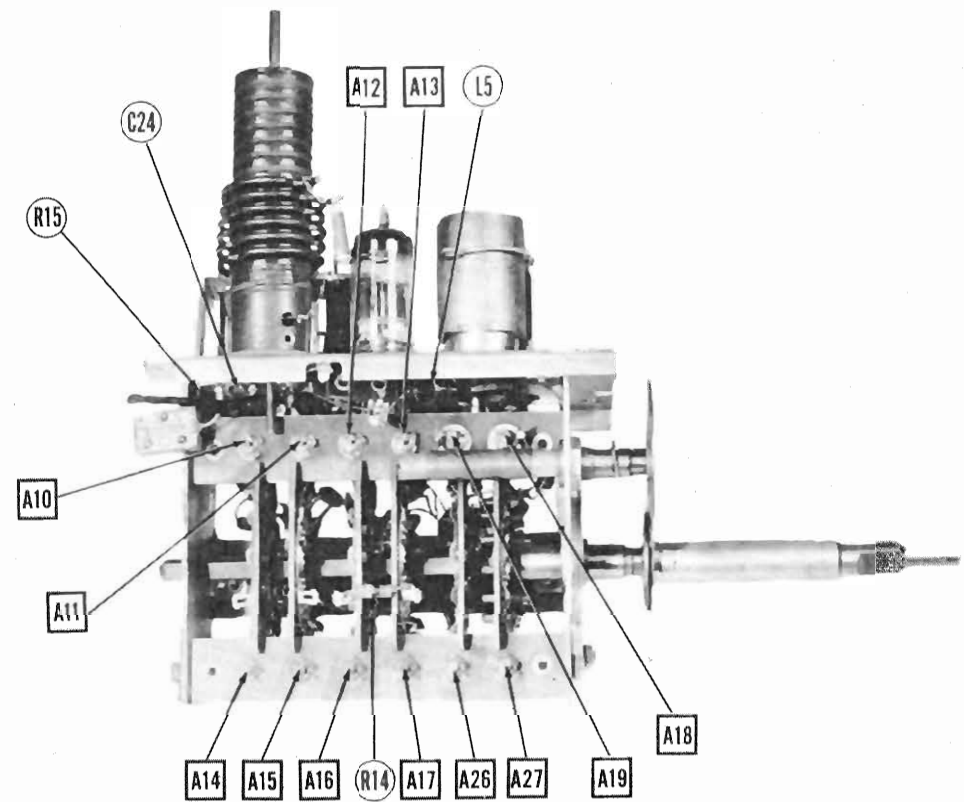
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case a recommendation, warrant
as to the quality and suitability of
parts have been compiled from infor
Inc., by the manufacturers of the pa
"Reproduction or use, without expre



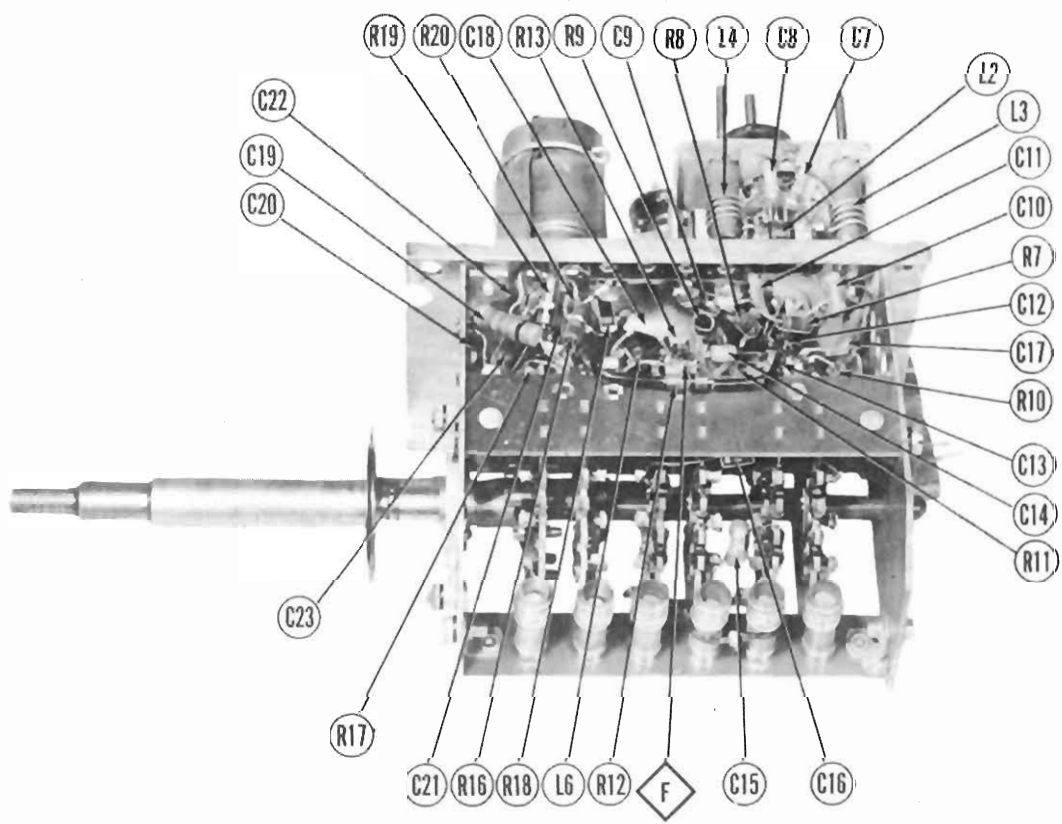


SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
9126 (Ch. 110.499-2)

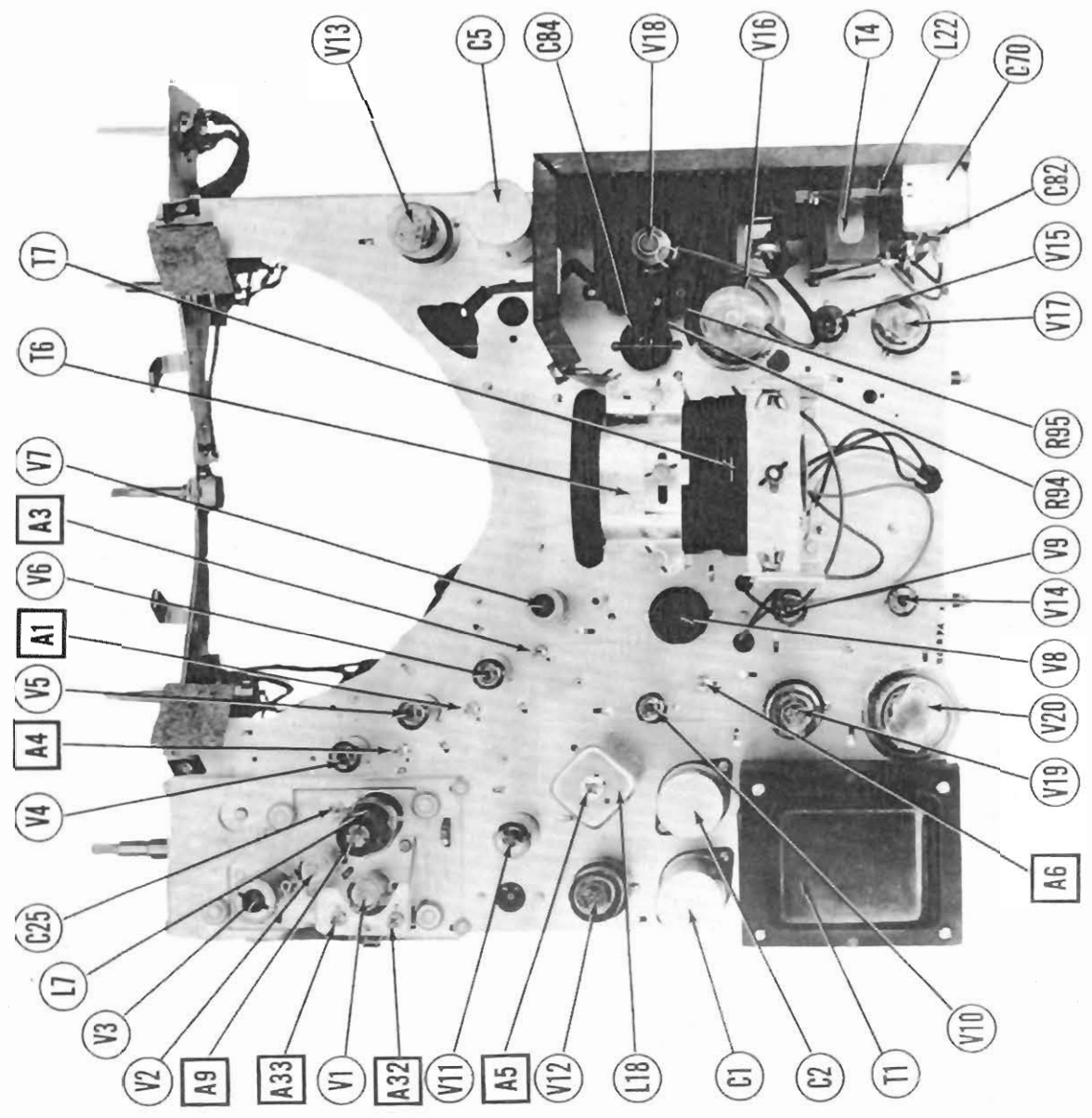
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IG YOU THIS SERVICE



RF TUNER-LEFT SIDE

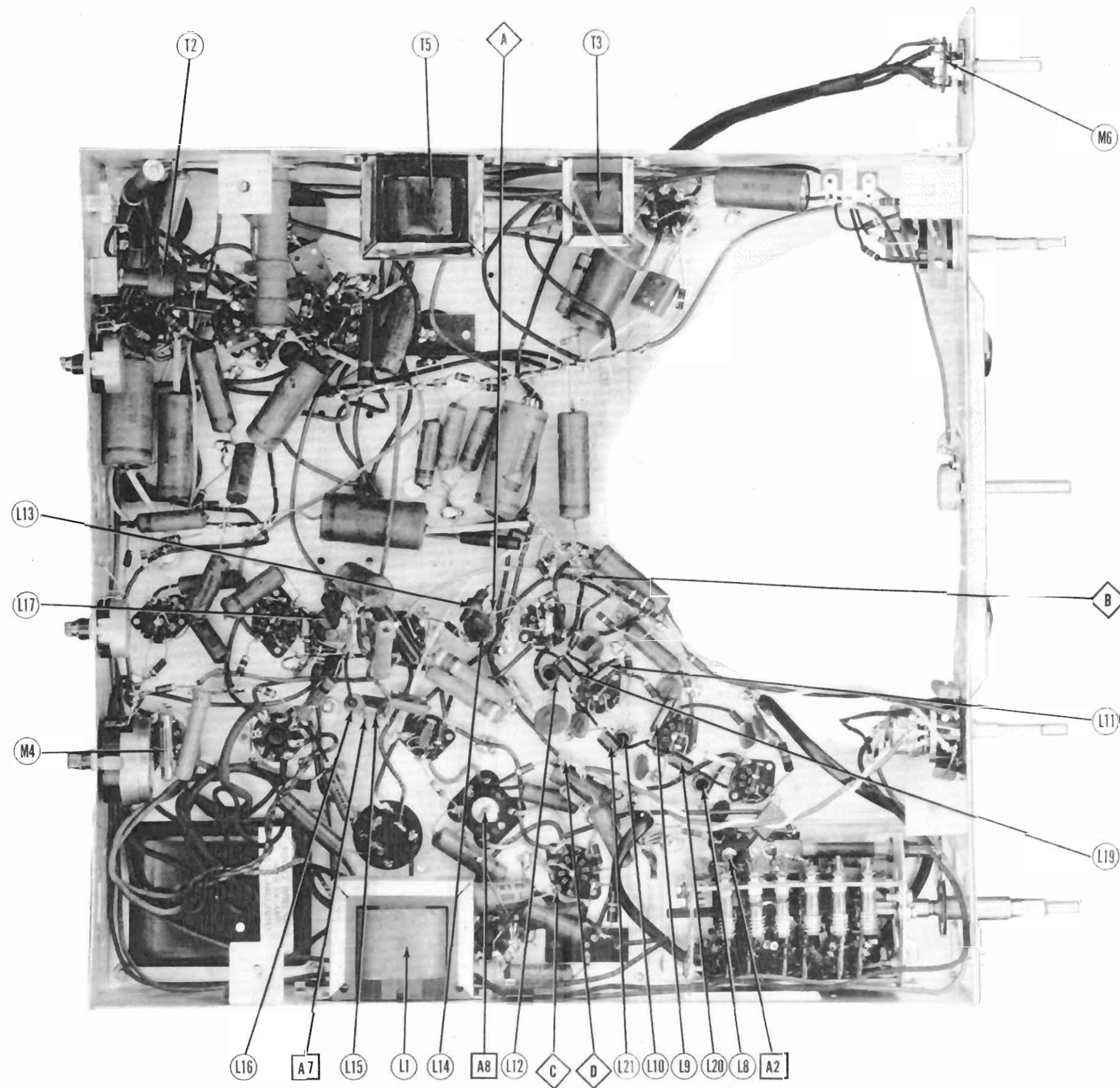


RF TUNER-RIGHT SIDE



SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
9126 (Ch. 110.499-2)
MAIN DOT SISSACH

SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
9126 (Ch. 110.499-2)



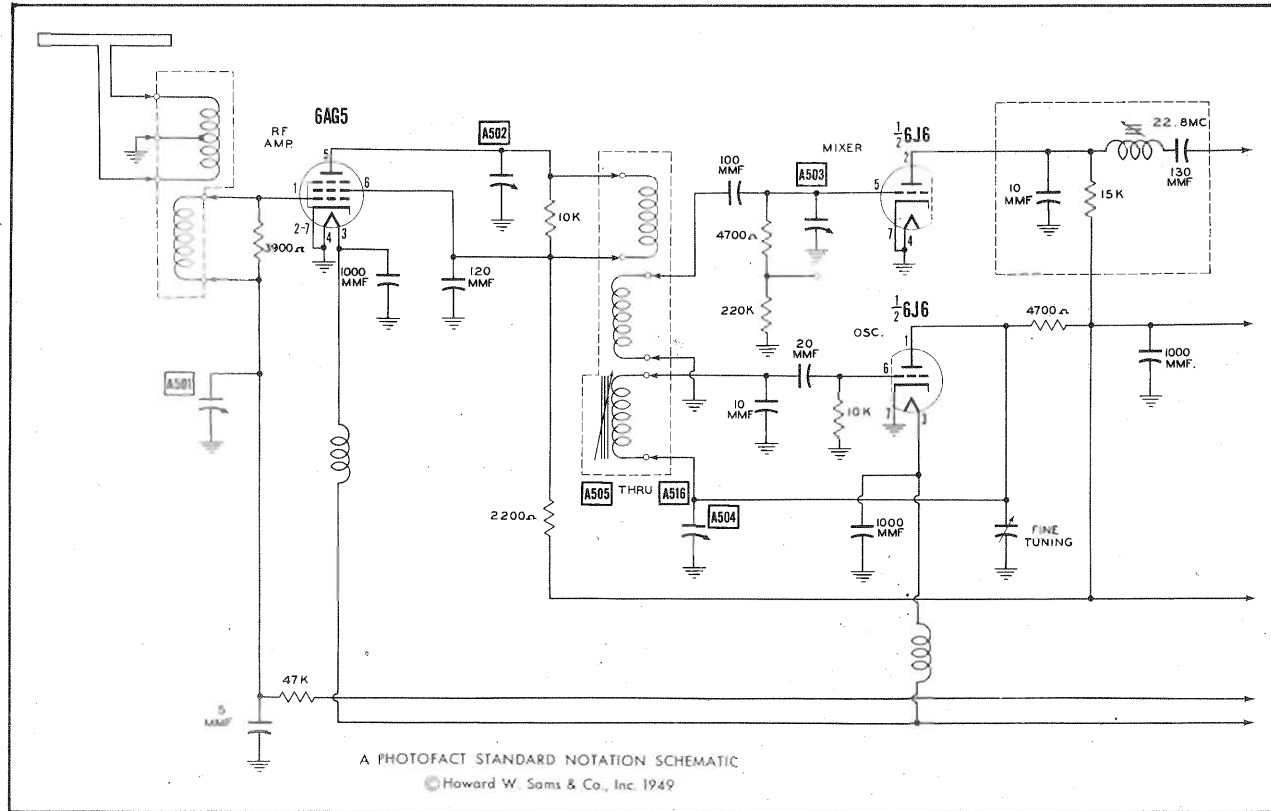
CHASSIS BOTTOM VIEW-TRANS., INDUCTOR AND ALIGNMENT IDENTIFICATION

ALIGNMENT INSTRUCTIONS (CONT.)

RF & OSCILLATOR ALIGNMENT (TUNER #2)

The sweep generator output lead should be terminated with its characteristic impedance, usually 50 ohms. Set the contrast control to measure 1 volt on a VTVM connected between pin 5 of V8 and chassis. Complete oscillator alignment may not be necessary. If the oscillator seems to be off frequency approximately the same amount for a majority of the channels, it may be possible to correct the error on one channel. If it should be noted that this is an all channel error, the oscillator should not be adjusted for any individual channel. If the error for one or two channels will not bring all channels within the range of the fine tuning control, it will be necessary to use the individual channel oscillator adjustment for each channel that is off frequency (step 32). The individual channel oscillator adjustments are reached through a hold just to the right of the channel switch shaft. The correct adjustment screw is accessible through this hole as the channel switch is turned to each channel.

| | DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|-----|----------------------|--|---------------------------|----------------------------|---------|---|------------------------|---|
| 31. | Two 120Ω carbon res. | Across antenna terminals with 120Ω in each lead. | 207MC (10MC Sweep) | 205.25MC 209.75MC | 12 | Vert. Amp. to Point A. Low side to chassis. | A501, A502, A503 | Adjust for response curve similar to Fig 5. |
| 32. | " | " | 213MC (10MC Sweep) | 211.25MC 215.75MC | 13 | " | A505 | Adjust to place markers as shown in Fig 5. |
| | | | 207MC (10MC Sweep) | 205.25MC 209.75MC | 12 | | A506 | |
| | | | 201MC (10MC Sweep) | 199.25MC 203.75MC | 11 | | A507 | |
| | | | 195MC (10MC Sweep) | 193.25MC 197.75MC | 10 | | A508 | |
| | | | 189MC (10MC Sweep) | 187.25MC 191.75MC | 9 | | A509 | |
| | | | 183MC (10MC Sweep) | 181.25MC 185.75MC | 8 | | A510 | |
| | | | 177MC (10MC Sweep) | 175.25MC 179.75MC | 7 | | A511 | |
| | | | 85MC (10MC Sweep) | 83.25MC 87.75MC | 6 | | A512 | |
| | | | 79MC (10MC Sweep) | 77.25MC 81.75MC | 5 | | A513 | |
| | | | 69MC (10MC Sweep) | 67.25MC 71.75MC | 4 | | A514 | |
| | | | 63MC (10MC Sweep) | 61.25MC 65.75MC | 3 | | A515 | |
| | | | 57MC (10MC Sweep) | 55.25MC 59.75MC | 2 | | A516 | |



RF TUNER #2

VOLTAGE AND RESISTANCE MEASUREMENTS

VOLTAGE READINGS

| Item | Tube | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 |
|------|--------|----------------|---------|--------|---------|----------|----------|---------|---------|---------|
| V 1 | 6J6 | 85VDC | 85VDC | 6.3VAC | OV | -1.6VDC | -1.5VDC | OV | | |
| V 2 | 6J6 | 115VDC | 115VDC | 6.3VAC | OV | -2.4VDC | -4.6VDC | OV | | |
| V 3 | 6J6 | 60VDC | 60VDC | 6.3VAC | OV | 5-4.2VDC | 5-2.6VDC | 4VDC | | |
| V 4 | 6AU6 | -6VDC | OV | OV | 6.3VAC | 125VDC | 125VDC | 1.5VDC | | |
| V 5 | 6AU6 | -7VDC | OV | OV | 6.3VAC | 125VDC | 125VDC | 1.6VDC | | |
| V 6 | 6AU6 | OV | OV | OV | 6.3VAC | 125VDC | 125VDC | 1VDC | | |
| V 7 | 6AL5 | OV | -2VDC | 6.3VAC | OV | -1VDC | OV | -5VDC | | |
| V 8 | 6AC7 | OV | OV | 1.4VDC | -1.8VDC | 1.4VDC | 155VDC | 6.3VAC | 215VDC | |
| V 9 | 12AU7 | 125VDC | OV | 5.8VDC | 6.3VAC | 6.3VAC | 5.6VDC | OV | 1VDC | OV |
| V 10 | 6AU6 | -6VDC | OV | 6.3VAC | OV | 245VDC | 25VDC | OV | | |
| V 11 | 6B8 | OV | -1.8VDC | -4VDC | OV | 6.3VAC | -1.4VDC | OV | -1.6VDC | 70VDC |
| V 12 | 6X6GT | OV | 6.3VAC | 225VDC | 250VDC | OV | 245VDC | OV | 12VDC | |
| V 13 | 6SN7GT | -40VDC | 140VDC | OV | OV | 330VDC | 25VDC | 6.3VAC | OV | |
| V 14 | 6AL5 | 2.2VDC | -1.2VDC | 6.3VAC | OV | OV | OV | OV | | |
| V 15 | 12AU7 | 240VDC | 2VDC | 10VDC | 6.3VAC | 6.3VAC | 100VDC | -3.6VDC | 10VDC | OV |
| V 16 | 6X6GT | OV | 6.3VAC | 7.5VDC | -1.7VDC | -1.4VDC | -1.3VDC | OV | 250VDC | TOP CAP |
| V 17 | 6AU6T | OV | 280VDC | 410VDC | 125VDC | 340VDC | 410VDC | 6.3VAC | OV | |
| V 18 | 183GT | Do not Measure | | | | | | | | |
| V 19 | 6X6GT | OV | 6.3VAC | 165VAC | 165VDC | OV | OV | OV | 175VDC | |
| V 20 | 5U4G | OV | 270VDC | 240VAC | OV | 245VAC | 240VDC | 370VDC | | |
| V 21 | 12LE4 | OV | 1VDC | 340VDC | 125VDC | 6.3VAC | OV | | | |

↓ Do not measure.

§ Taken with Vacuum Tube Voltmeter.

RESISTANCE READINGS

| Item | Tube | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 |
|------|--------|----------------|--------------------------------|---------------|----------------|----------------|----------------|---------------|----------------|---------------------------|
| V 1 | 616 | 14KQ | 14KQ | .28 | Q8 | 1.5M Ω | 1.5M Ω | Q8 | | |
| V 2 | 616 | 12KQ | 12KQ | .28 | Q8 | 1.5M Ω | 1.5M Ω | Q8 | | |
| V 3 | 616 | 15.6KQ | 15.6KQ | .28 | Q8 | 100K Ω | 100K Ω | Q7 | | |
| V 4 | 616 | 1.6 M Ω | Q8 | Q8 | .28 | 1120K Ω | 1120K Ω | 80K | | |
| V 5 | 616 | 1.6 M Ω | Q8 | Q8 | .28 | 1120K Ω | 1120K Ω | 80K | | |
| V 6 | 616 | .28 | Q8 | Q8 | .28 | 1100K Ω | 1100K Ω | 100K | | |
| V 7 | 6A15 | 18 | 100K Ω | .28 | Q8 | 10K Ω | Q8 | 600K Ω | | |
| V 8 | 6AC7 | Q8 | Q8 | 750 Ω | 10K Ω | 750 Ω | 20K Ω | .28 | 10K Ω | |
| V 9 | 12A17 | 110K Ω | 1.5M Ω | 300K Ω | .28 | .28 | 47K Ω | Q8 | 270K Ω | Q8 |
| V 10 | 6AU6 | 470K Ω | Q8 | .28 | Q8 | .33K Ω | .28K Ω | Q8 | | |
| V 11 | 6B8 | Q8 | 47K Ω | Inf. | Q8 | .28 | Inf. | Q8 | 10 M Ω | .530K Ω |
| V 12 | 6T6GT | Inf. | .28 | .28 | .180K Ω | 470K Ω | 15K Ω | Q8 | 220 Ω | |
| V 13 | 6SN7GT | 2 M Ω | 2.8M Ω 1.5M Ω | Q8 | 2.2 M Ω | .7K Ω | 600 Ω | .28 | Q8 | |
| V 14 | 6AL5 | 4.7M Ω | 4.7 M Ω | .28 | Q8 | 33K Ω | Q8 | 33K Ω | | |
| V 15 | 12A17 | .27K Ω | 4.7 M Ω | 150K Ω | .28 | .28 | .28 | 150K Ω | 150K Ω | Q8 |
| V 16 | 6B8GT | Inf. | .28 | 80K | 50K Ω | 1.5M Ω | 1.5M Ω | Q8 | .820K Ω | .100K |
| V 17 | 6H4-7 | 250K Ω | .22K Ω | Q8 | 100K Ω | .10K Ω | .Q8 | .28 | Q8 | TOP INF .330K Ω |
| V 18 | 1450T | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | |
| V 19 | 6X50T | Inf. | .28 | 20K | 1100K Ω | 20K | Inf. | Q8 | 20K Ω | |
| V 20 | 5940 | Inf. | 20K Ω | 40K | Inf. | Inf. | 25K | 20K Ω | 20K Ω | |
| V 21 | 12A14 | Q8 | 270K Ω | .15K Ω | 100K Ω | .58 | | | | |

1. Measure from mid point of

● Measured from pin 2 of V20
● Measured from pin 3 of V17

176 JOE C. MADDALA •

1. DC Voltage measurements are at 20,000 ohms per volt, AC Voltage measured at 1,000 ohms per volt.
2. Pin numbers are counted in a clockwise 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 panels controls set at minimum.
6. Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.

SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
9126 (Ch. 110.499-2)

ALIGNMENT INSTRUCTIONS

| ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT | | | | | | |
|---|---|----------------------------|---------|--|-----------------|---|
| If set is to be aligned with the picture tube removed, remove the horizontal oscillator tube V15 to disable the high voltage. The local oscillator tube V3 should be removed during IF Alignment to prevent erroneous indications. | | | | | | |
| VIDEO IF ALIGNMENT | | | | | | |
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT VTVM | ADJUST | REMARKS |
| 1. | High side to ungrounded tube shield floating over mixer tube V2. Low side to chassis. | 22.8MC (Unmod.) | Any | DC Probe to Point Common to Point point | A1,A2 | Adjust for maximum deflection. |
| 2. | " | 25.2MC (Unmod.) | " | " | A3,A4 | " |
| 3. | " | 21.25MC (Unmod.) | " | " | A9 | Adjust for MINIMUM deflection. |
| OVERALL VIDEO IF RESPONSE CHECK | | | | | | |
| Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. | | | | | | |
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
| 4. | High side to ungrounded tube shield floating over mixer tube V2. Low side to chassis. | 24MC (10MC Sweep) | Any | Vert. Amp. to Point Low side to chassis. | | Check for response as per Fig 1. with markers as shown. If necessary SLIGHTLY retouch A1, A2, A3, and A4 for optimum response. |
| SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM | | | | | | |
| Connect two matched 100K2 (±1%) resistors in series from Point C to chassis. The junction of these two resistors is alignment Point E as shown on the schematic. | | | | | | |
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT VTVM | ADJUST | REMARKS |
| 4. | High side to pin 4 (Grid) of 6AC7 (V10) Low side to chassis. | 4.5MC (Unmod.) | Any | DC Probe to Point Common to chassis. | A5,A6, A7 | Adjust for maximum deflection. |
| 5. | " | " | " | DC Probe to Point Common to Point point | A8 | Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. Continue with step 7. |
| SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE | | | | | | |
| Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection. | | | | | | |
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
| 5. | High side to pin 4 (Grid) of 6AC7 (V8). Low side to chassis. | 4.5MC (450KC Sweep) | Any | Vert. Amp. to Point Low side to chassis. | A5,A6, A7 | Disconnect stabilizer capacitor C4. Adjust A5, A6, and A7 for maximum amplitude and symmetry as per Fig 2. |
| 6. | " | " | " | Vert. Amp. to Point Low side to chassis. | A5,A8 | Reconnect stabilizer capacitor C4. Adjust A8 so 4.5MC marker occurs at center of crossover lines as per Fig 3. SLIGHTLY retouch A5 for maximum amplitude and straightness of crossover lines. |
| RF & MIXER ALIGNMENT—TUNER#1 | | | | | | |
| Connect the synchronized sweep voltage from the signal generator to the horizontal input of the oscilloscope for horizontal deflection. Connect a 1000PFF capacitor from the grid of the first video amplifier (6AU6, V4) to chassis. Keep leads short as possible. Connect the DC Probe of VTVM to the junction of R24 and C31, common to chassis. Set contrast control to read -3V. The signal generator should be terminated with a resistance equal to its output impedance (usually 50 ohms). These adjustments are normally very stable and alignment should not be attempted unless they are known to be out of alignment. | | | | | | |
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
| 7. | Two 1200 carbon res. across antenna terminals with 120Ω in each lead. | 177MC (10MC Sweep) | 7 | Vert. Amp. thru 10KΩ to Point Low side to chassis. | A10,A11 A12,A13 | Adjust for approximately flat top response as per Fig 4 with markers above 70%. |
| 8. | " | 183MC (10MC Sweep) | 8 | " | " | Check for response curve as per Fig 4. |
| 9. | " | 189MC (10MC Sweep) | 9 | " | " | " |
| 10. | " | 195MC (10MC Sweep) | 10 | " | " | " |
| 11. | " | 201MC (10MC Sweep) | 11 | " | " | " |
| 12. | " | 207MC (10MC Sweep) | 12 | " | " | " |
| 13. | " | 213MC (10MC Sweep) | 13 | " | " | " |
| If markers are below 70% on any channel make slight adjustment of A10, A11, A12, and A13 with channel selector on that channel. Recheck all high band channels. | | | | | | |

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---|---|----------------------------|---------|--|-----------------|--|
| 14. | Two 1200 carbon res. across antenna terminals with 120Ω in each lead. | 83.25MC (10MC Sweep) | 6 | Vert. Amp. thru 10KΩ to Point Low side to chassis. | A14,A15 A16,A17 | Adjust for approximately flat top response as per Fig. 4 with markers above 70%. |
| 15. | " | 79MC (10MC Sweep) | 5 | " | " | Check for response as per Fig 4. |
| 16. | " | 69MC (10MC Sweep) | 4 | " | " | " |
| 17. | " | 63MC (10MC Sweep) | 3 | " | " | " |
| 18. | " | 57MC (10MC Sweep) | 2 | " | " | " |
| If markers are below 70% on any channel make slight adjustment of A14, A15 A16, and A17 with channel selector on that channel. Recheck all low band channels. | | | | | | |
| OSCILLATOR ALIGNMENT—TUNER#1 | | | | | | |
| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
| 19. | Two 1200 carbon res. across antenna terminals with 120Ω in each lead. | 213MC (10MC Sweep) | 13 | Vert. Amp. to Point Low side to chassis. | A18,A19 | Adjust for response curve as per Fig 5 with markers as shown. |
| 20. | " | 207MC (10MC Sweep) | 12 | " | A20 | " |
| 21. | " | 201MC (10MC Sweep) | 11 | " | A21 | " |
| 22. | " | 195MC (10MC Sweep) | 10 | " | A22 | " |
| 23. | " | 189MC (10MC Sweep) | 9 | " | A23 | " |
| 24. | " | 183MC (10MC Sweep) | 8 | " | A24 | " |
| 25. | " | 177MC (10MC Sweep) | 7 | " | A25 | " |
| 26. | " | 83.25MC (10MC Sweep) | 6 | " | A26,A27 | " |
| 27. | " | 79MC (10MC Sweep) | 5 | " | A28 | " |
| 28. | " | 69MC (10MC Sweep) | 4 | " | A29 | " |
| 29. | " | 63MC (10MC Sweep) | 3 | " | A30 | " |
| 30. | " | 57MC (10MC Sweep) | 2 | " | A31 | " |
| WAVE TRAP ADJUSTMENT | | | | | | |
| Wave traps A32 and A33 are used for specific types of interference and their alignment will depend upon the type encountered. With the receiver tuned to the channel having the interference, set fine tuning control until interference is at maximum. Adjust A32 and A33 for minimum interference in the picture and sound, keeping the cores at approximately the same relative position. Turn one core 1/2 turn, adjust the other for minimum interference. | | | | | | |

SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
9126 (Ch. 110.499-2)

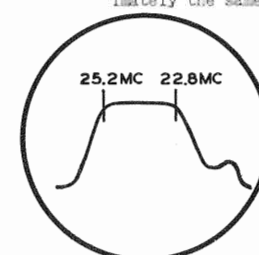


FIG. 1

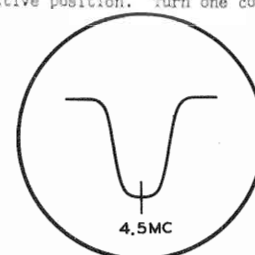


FIG. 2

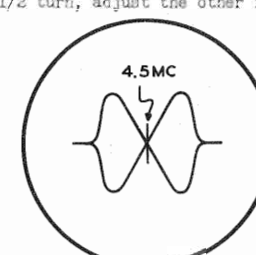


FIG. 3

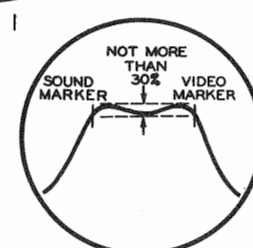


FIG. 4

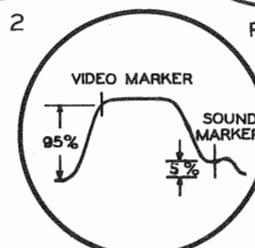
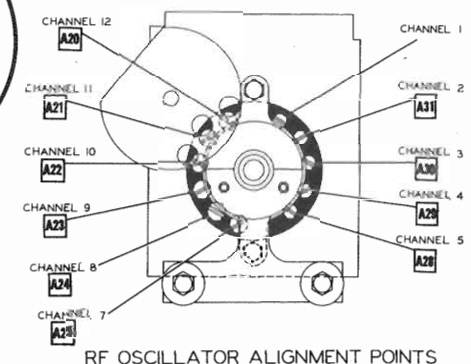
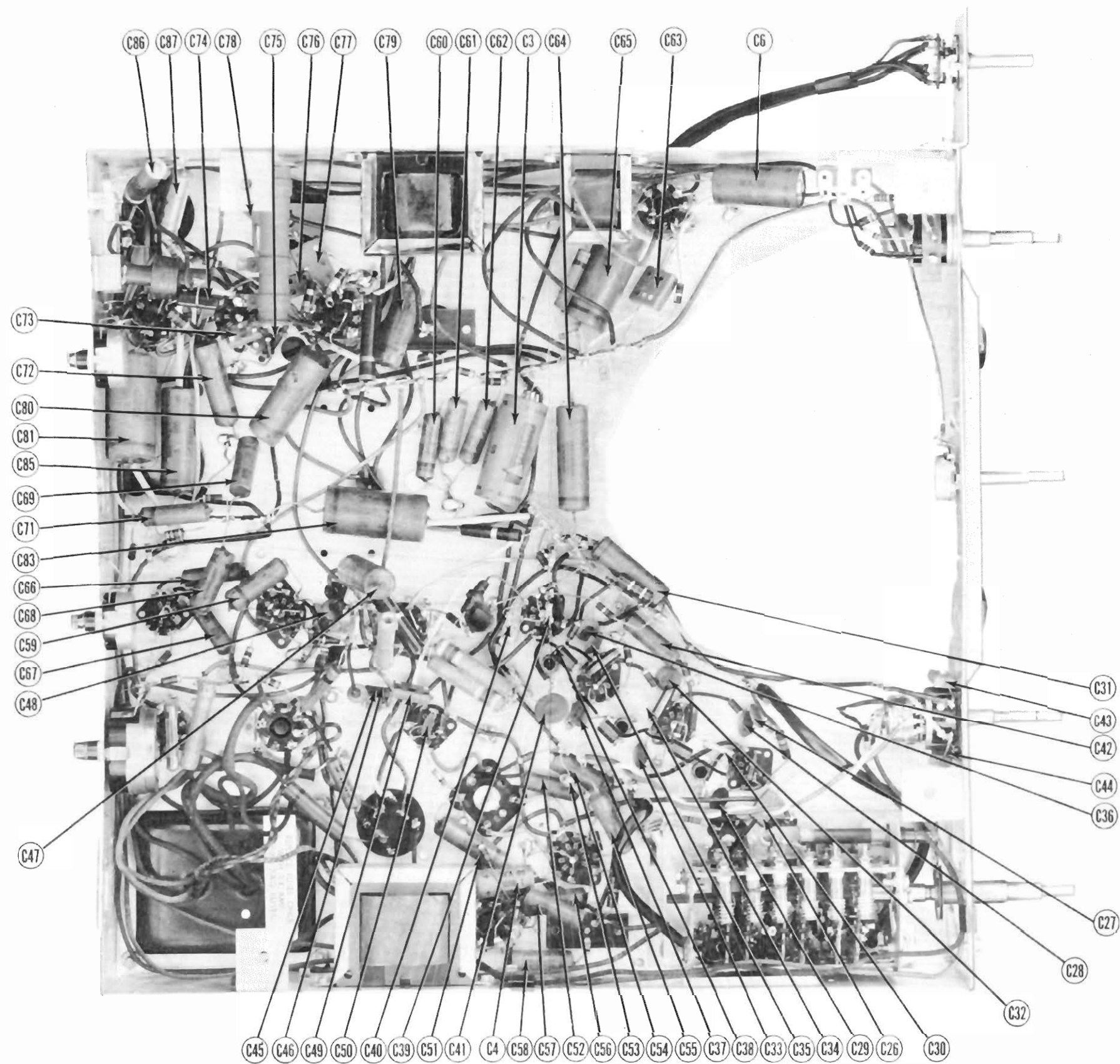


FIG. 5

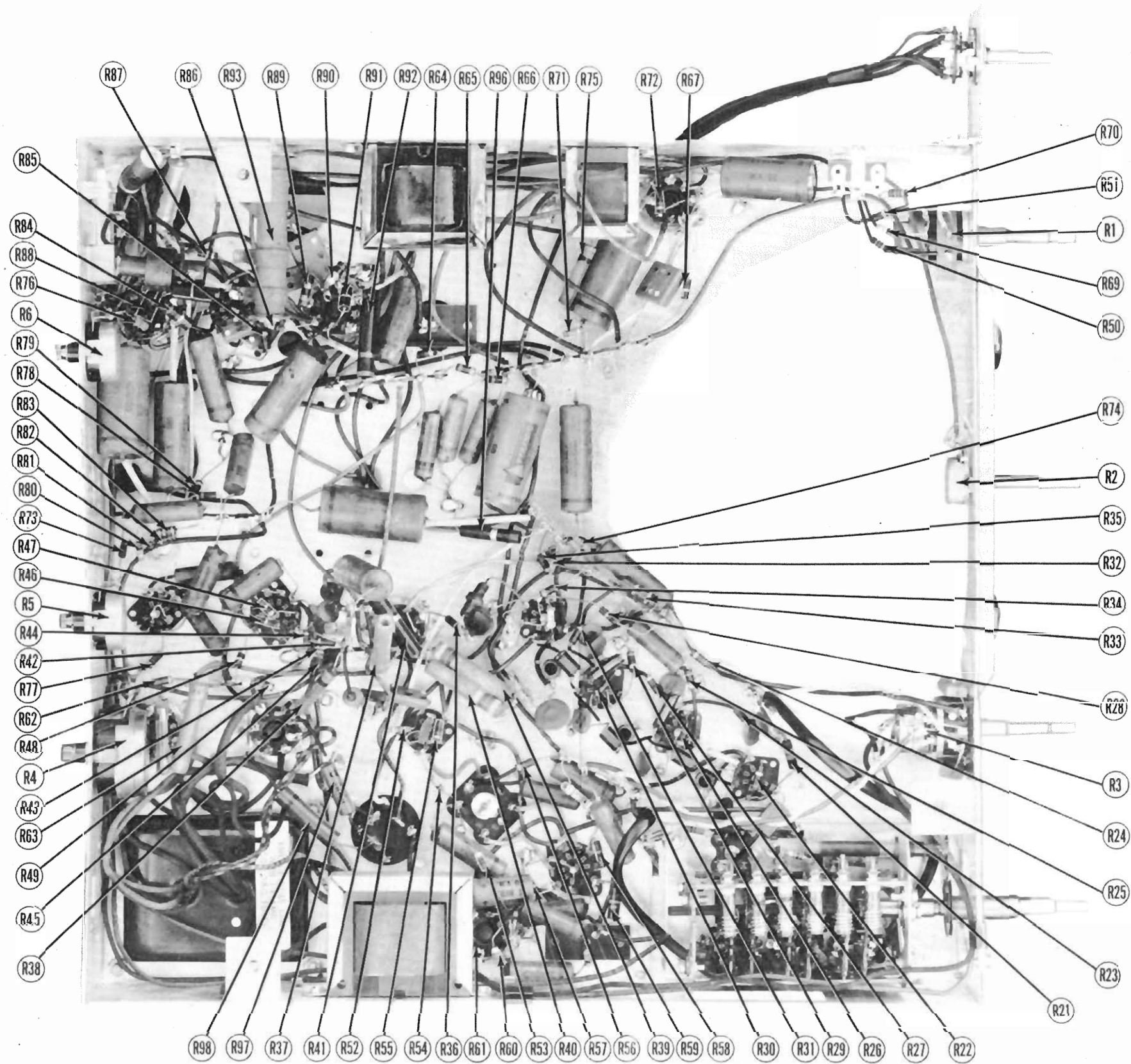


RF OSCILLATOR ALIGNMENT POINTS

SILVERTONE MODELS
 9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
 9126 (Ch. 110.499-2)



CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
9126 (Ch. 110.499-2)

PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

| ITEM No. | RATINGS | | REPLACEMENT DATA | | | NOTES |
|----------|------------|------------|---------------------|-----------------|---------------|---|
| | FIELD RES. | V. C. IMP. | SILVERTONE PART No. | JENSEN PART No. | QUAM PART No. | |
| SP1A | PM | 3.5Ω | A58121 | ST-118 | 10A4A | # Replace output trans. to match 6-8Ω voice coil. \$ Used in console models only. ▲ 5" speaker used in table models only. |
| B | PM | | A5806 | MOD.P10-T | | |
| SP2A | CONE DIA. | V. C. DIA. | | | | |
| B | 9 3/4" | 3/4" | | | | |

FILTER CHOKE

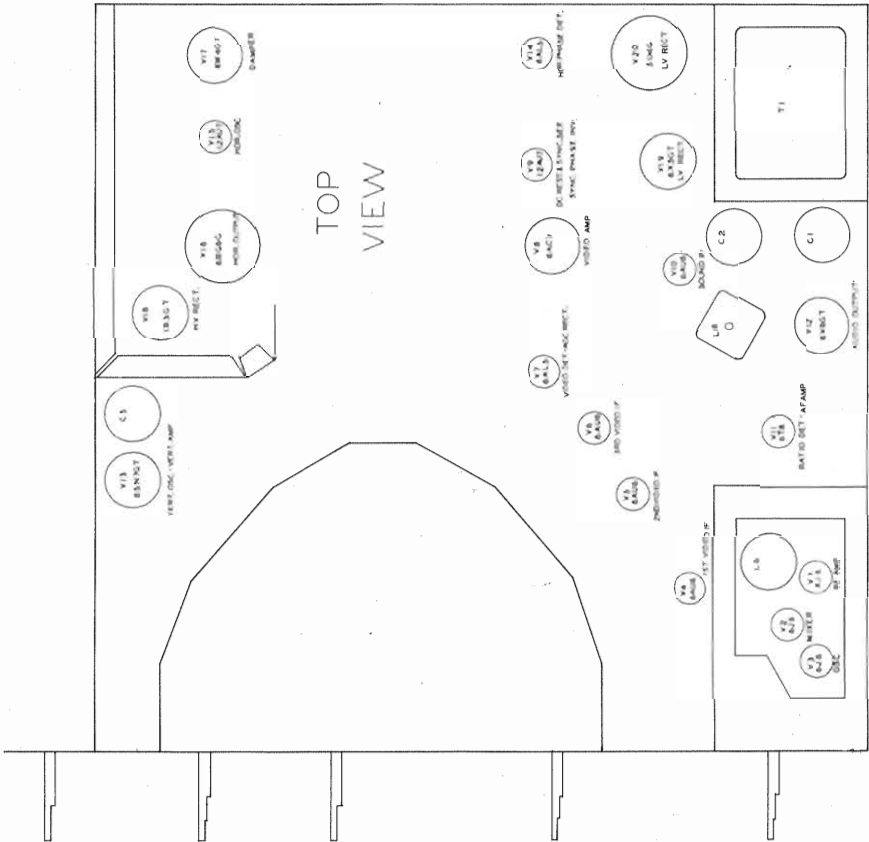
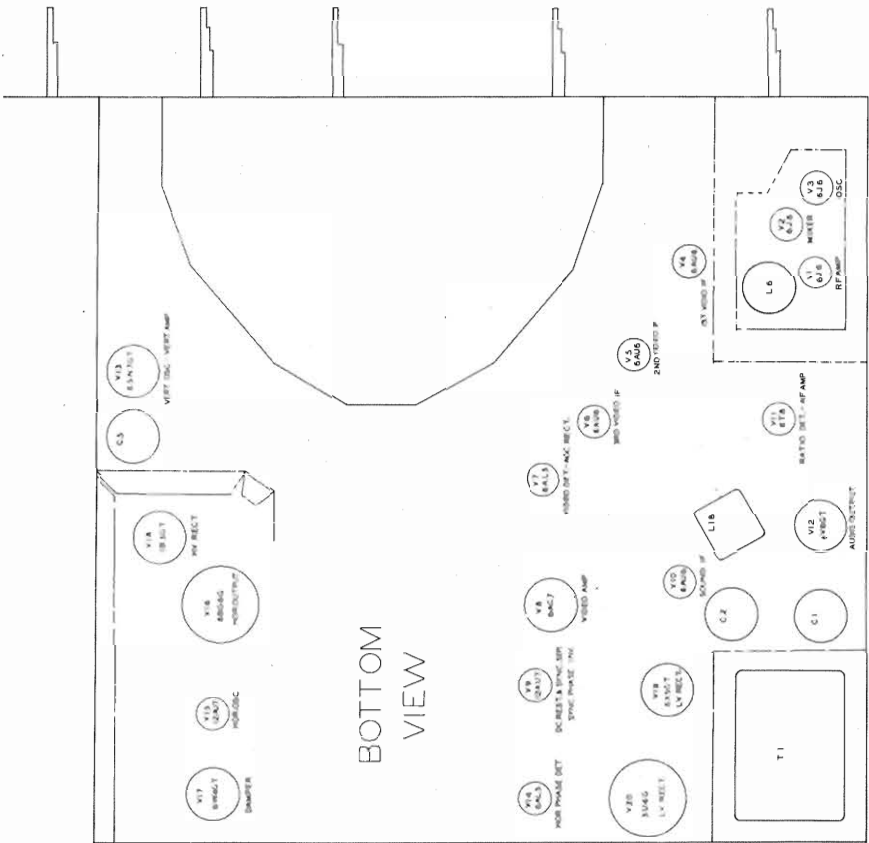
| ITEM No. | RATINGS | | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|----------------------|------------------|---------------------|---------------------|------------------|----------------|------------------|---------------------------------|
| | TOTAL DIRECT CURRENT | D. C. RESISTANCE | INDUCTANCE (1000 μ) | SILVERTONE PART No. | STANCOR PART No. | MERIT PART No. | CHICAGO PART No. | |
| L1 | .195A | 170Ω | 6.6Henries | A1404 | C-2225 | C-299111 | TR-4200 | 1! Drill one new mounting hole. |

COILS (RF-IF)

| ITEM No. | USE | DC RES. | | REPLACEMENT DATA | | NOTES |
|----------|----------------------|---------|------|---------------------|-------------------|----------------------|
| | | PRI. | SEC. | SILVERTONE PART No. | MEISSNER PART No. | |
| L2 | Ant. Input | 0Ω | | | | Part of RF tuner #1. |
| L3 | Interference Trap | 0Ω | | | | Part of RF tuner #1. |
| L4 | Interference Trap | 0Ω | | | | Part of RF tuner #1. |
| L5 | Fill. Choke | .1Ω | | A28254 | | |
| L6 | Mixer Grid Trap | 0Ω | | | | Part of RF tuner #1. |
| L7 | 1st Video IF | .1Ω | 0Ω | | | Part of RF tuner #1. |
| L8 | 2nd Video IF | .2Ω | | A3392 | | |
| L9 | IF Choke | 3Ω | | A28253 | | |
| L10 | 3rd Video IF | .2Ω | | A3392 | | |
| L11 | IF Choke | 3Ω | | A28253 | | |
| L12 | 4th Video IF | .2Ω | | A3392 | | |
| L13 | Peaking | 7Ω | | A28155-1 | | |
| L14 | Peaking | 20Ω | | A28262 | | |
| L15 | Sound Take-Off | 1.5Ω | 1.5Ω | A28254 | | |
| L16 | Peaking | 11Ω | | A28255-3 | | |
| L17 | Peaking | 14Ω | | A28255-4 | | |
| L18 | Ratio Det. | 8Ω | 1Ω | A3393 | | |
| L19 | Fill. Choke | .1Ω | | A28264 | | |
| L20 | Fill. Choke | .1Ω | | A28264 | | |
| L21 | Fill. Choke | .1Ω | | A28264 | | |
| L22 | Horiz. Width Control | .5Ω | | A28258 | | |

MISCELLANEOUS

| ITEM No. | PART NAME | SILVERTONE PART No. | NOTES |
|----------|----------------|---------------------|-------------------------------|
| M1A | Tuner Assembly | A54616 | Tuner #1 |
| B | Tuner Assembly | A54617 | Tuner #2 |
| M2 | Fuse | | Not used on all models. |
| M3 | Fuse | | Not used on all models. |
| M4 | Fuse | A54682 | Type 3AG 1/4 Amp. |
| M5 | Ion Trap | A54623 | PM Type |
| | Socket | A18101 | Speaker |
| | Socket | A18156 | Picture Tube |
| | Cabinet | A6066 | Model 9123 |
| | Cabinet | A6067 | Model 9124 |
| | Cabinet | A6068 | Model 9126 |
| | Knob | A39187 | On - Off - Volume Control |
| | Knob | A39189 | Horiz. Hold Control |
| | Knob | A39187 | Vert. Hold Control |
| | Knob | A39188 | Contrast Control |
| | Knob | A39188-1 | Brightness Control |
| | Knob | A39192-1 | Ant. Switch - Model 9126 Only |
| | Knob | A39191 | Channel Selector |
| | Knob | A39190 | Fine Tuning Control |
| | Safety Glass | A62260 | Models 9124 and 9126 |
| | Safety Glass | A62256 | Model 9123 |



SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
9126 (Ch. 110.499-2)

CHART INWEM3C7P EBUL

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

| ITEM No. | USE | REPLACEMENT DATA | | RMA BASE TYPE | NOTES |
|----------|---------------------------|---------------------|----------------------|---------------|------------------------------|
| | | SILVERTONE PART No. | STANDARD REPLACEMENT | | |
| V1A | RF Amp. | 6J6 | 6J6 | 7BF | Used in Tuner #1 |
| V2 | RF Amp. | 6AG5 | 6AG5 | 7BD | Used in Tuner #2 |
| V3 | Mixer | 6J6 | 6J6 | 7BF | Used in Tuner #1 |
| V4 | Oscillator | 6J6 | 6J6 | 7BF | Used in Tuner #1 |
| V5 | 1st Video IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V6 | 2nd Video IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V7 | 3rd Video IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V8 | Video Det. & AGC Rect. | 6AL5 | 6AL5 | 6BT | |
| V9 | Video Amp. | 6AC7 | 6AC7 | 6BT | |
| V10 | DC Rest.-Sync. Sep.-Sync. | 12AU7 | 12AU7 | 9A | |
| V11 | Phase Inverter | 6AU6 | 6AU6 | 7BK | |
| V12 | Sound IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V13 | Ratio Det.-AF Amp. | 6V6GT | 6V6GT | 9E | |
| V14 | Audio Output | 6V6GT | 6V6GT | 9E | |
| V15 | Vert. Osc.-Vert. Amp. | 6SN7GT | 6SN7GT | 6BD | |
| V16 | Hor. Phase Det. | 6AL5 | 6AL5 | 6BT | |
| V17 | Hor. Osc. | 12AU7 | 12AU7 | 9A | |
| V18 | Hor. Output | 6X4GT | 6X4GT | 6CG | |
| V19 | Damper | 6X4GT | 6X4GT | 6CG | |
| V20 | NV Rectifier | 15X3T | 15X3T | 8C | |
| V21 | LV Rectifier | 6X5GT | 6X5GT | 8C | |
| V22 | UV Rectifier | 6X5GT | 6X5GT | 8C | |
| V23 | Picture Tube | 12LP4 | 12LP4 | 12D | Used in models 9124 and 9126 |
| V24 | Picture Tube | 10BP4 | 10BP4 | 12D | Used in model 9123 |

CAPACITORS (CONT.)

| ITEM No. | RATING CAP. VOLT | REPLACEMENT DATA | | CORNELL DUBILIER PART No. | ERIE PART No. | SPRAGUE PART No. | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|------------------|---------------------|------------------|---------------------------|---------------|------------------|---|
| | | SILVERTONE PART No. | AEROVOX PART No. | | | | |
| C56 | .01 600 | P1988 | P688-01 | G76S1 | GP2-335-01 | TM-11 | Audio Coupling |
| C57 | .005 600 | P1987 | P688-008 | G76D5 | GP2M-008 | TM-25 | Output Plate Bypass |
| C58 | .005 600 | P1987 | P688-008 | G76D5 | GP2M-008 | TM-25 | Output Plate Bypass |
| C59 | .01 600 | P1988 | P688-01 | G76S1 | GP2-335-01 | TM-11 | Sync. Coupling |
| C60 | .002 600 | P19101 | P688-002 | G76D2 | GP2M-002 | TM-22 | Integrator Net. |
| C61 | .005 600 | P19120 | P688-005 | G76D5 | GP2M-005 | TM-25 | Integrator Net. |
| C62 | .005 600 | P19120 | P688-005 | G76D5 | GP2M-005 | TM-25 | Integrator Net. |
| C63 | .005 600 | P19120 | P688-005 | G76D5 | GP2M-005 | TM-25 | Integrator Net. |
| C64 | .01 600 | P19121 | P688-01 | G76S1 | GP2-335-01 | TM-11 | Vert. Osc. Grid Cap. |
| C65 | .005 600 | P19108 | P688-01 | G76S1 | GP2-335-01 | TM-11 | Vert. Discharge |
| C66 | .001 600 | P1991 | P688-001 | G76D1 | GP2L-001 | TM-21 | Vert. Sweep Coupling |
| C67 | .001 600 | P1991 | P688-001 | G76D1 | GP2L-001 | TM-21 | Hor. Sync. Coupling |
| C68 | .01 600 | P1988 | P688-01 | G76S1 | GP2-335-01 | TM-11 | Hor. Sync. Coupling |
| C69 | .01 600 | P1988 | P688-01 | G76S1 | GP2-335-01 | TM-11 | AFC Filter |
| C70 | .1 600 | P19100 | P688-1 | G76P1 | GP2-335-01 | TM-11 | AFC Filter |
| C71 | .005 600 | P1987 | P688-005 | G76D5 | GP2M-005 | TM-25 | Hor. Sync. Coupling |
| C72 | .1 200 | P19111 | P688-1 | G76P1 | GP2M-005 | TM-25 | Hor. Osc. Grid Cap. |
| C73 | .390 500 | P19122 | 1468-0004 | SW574 | GP2K-390 | 1FM-34 | Hor. MW Feedback |
| C74 | .390 500 | P19107 | 1468-0004 | SW574 | GP2K-390 | 1FM-34 | Fixed Trimmer |
| C75 | .390 500 | P19107 | 1468-0004 | SW574 | GP2K-390 | 1FM-34 | Hor. Discharge |
| C76 | .270 500 | P1994 | 1468-00025 | SW575 | GP2K-270 | 1FM-325 | Hor. Sweep Coupling |
| C77 | .36 1500 | P19135 | P688-05 | G76S5 | GP2K-270 | 1FM-325 | Hor. Feedback |
| C78 | .36 1500 | P19135 | P688-05 | G76S5 | GP2K-270 | 1FM-325 | Hor. Feedback |
| C79 | .05 600 | P1986 | P688-25 | G76P25 | GP2K-270 | 1FM-325 | Hor. Output Screen Byp. |
| C80 | .25 400 | P1986 | P688-25 | G76P25 | GP2K-270 | 1FM-325 | Hor. Output Cath. Bypass |
| C81 | .25 400 | P19108 | P688-25 | G76P25 | GP2K-270 | 1FM-325 | Damper Filter |
| C82 | .25 400 | P19108 | P688-25 | G76P25 | GP2K-270 | 1FM-325 | Fixed Trimmer |
| C83 | .25 400 | P19108 | P688-25 | G76P25 | GP2K-270 | 1FM-325 | Hor. Sweep Coupling |
| C84 | .500 10000 | P1988-1 | P688-1 | G76P1 | GP2K-270 | 1FM-325 | Hor. Filter |
| C85 | .1 600 | P1988 | P688-02 | G76S2 | GP2K-270 | 1FM-325 | Pic. Tube Cath. Dec. |
| C86 | .02 600 | P19106 | P688-02 | G76S2 | GP2K-270 | 1FM-325 | Line Filter |
| C87 | .02 600 | P19106 | P688-02 | G76S2 | GP2K-270 | 1FM-325 | Line Filter |

* Some models use 120MFF in this application.
* Some models use 30MFF in this application.
* Used only in models with 12 inch picture tube. Some models use four 200MFF capacitors in a series parallel combination in this application.
* Omit bypass section.

RESISTORS (CONT.)

| ITEM No. | RATING RESISTANCE WATTS | REPLACEMENT DATA | | CORNELL DUBILIER PART No. | ERIE PART No. | SPRAGUE PART No. | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|-------------------------|---------------------|----------------------|---------------------------|---------------|------------------|---|
| | | SILVERTONE PART No. | STANDARD REPLACEMENT | | | | |
| R50 | 27K | P23126 | 27K | P23126 | 27K | 27K | Voltage Divider |
| R51 | 220K | P23127 | 220K | P23127 | 220K | 220K | Voltage Divider |
| R52 | 470K | P23118 | 470K | P23118 | 470K | 470K | Sound IF Grid |
| R53 | 1000K | P23114 | 1000K | P23114 | 1000K | 1000K | Sound IF Plate Decoupling |
| R54 | 100K | P23120 | 100K | P23120 | 100K | 100K | Sound IF Screen |
| R55 | 12K | P23119 | 12K | P23119 | 12K | 12K | Voltage Divider |
| R56 | 15K | P23121 | 15K | P23121 | 15K | 15K | De-emphasis |
| R57 | 47K | P23147 | 47K | P23147 | 47K | 47K | Ratio Det. Diode Load |
| R58 | 10 Meg. | P23123 | 10 Meg. | P23123 | 10 Meg. | 10 Meg. | AF Grid |
| R59 | 330K | P23124 | 330K | P23124 | 330K | 330K | AF Plate |
| R60 | 470K | P23118 | 470K | P23118 | 470K | 470K | Output Grid |
| R61 | 220K | P23125 | 220K | P23125 | 220K | 220K | Output Cathode |
| R62 | 100K | P23109 | 100K | P23109 | 100K | 100K | Focus Coil Shunt |
| R63 | 1500K | P21101 | 1500K | P21101 | 1500K | 1500K | Series Focus Coil |
| R64 | 22K | P23122 | 22K | P23122 | 22K | 22K | Integrator |
| R65 | 820K | P23111 | 820K | P23111 | 820K | 820K | Integrator |
| R66 | 820K | P23111 | 820K | P23111 | 820K | 820K | Integrator |
| R67 | 1 Meg. | P23112 | 1 Meg. | P23112 | 1 Meg. | 1 Meg. | Vert. Osc. Grid See Note 1 |
| R68 | 1 Meg. | P23112 | 1 Meg. | P23112 | 1 Meg. | 1 Meg. | Vert. Osc. Grid See Note 2 |
| R69 | 100K | P23120 | 100K | P23120 | 100K | 100K | Voltage Divider |
| R70 | 6.8 Meg. | P23150 | 6.8 Meg. | P23150 | 6.8 Meg. | 6.8 Meg. | Voltage Divider |
| R71 | 1.8 Meg. | P23135 | 1.8 Meg. | P23135 | 1.8 Meg. | 1.8 Meg. | Vert. Osc. Plate See Note 3 |
| R72 | 2.2 Meg. | P23134 | 2.2 Meg. | P23134 | 2.2 Meg. | 2.2 Meg. | Vert. Amp. Grid |
| R73 | 560K | P23137 | 560K | P23137 | 560K | 560K | Vert. Amp. Cathode |
| R74 | 330K | P23136 | 330K | P23136 | 330K | 330K | Vert. Feaking |
| R75 | 680K 20% | P23133 | 680K 20% | P23133 | 680K 20% | 680K 20% | Filter |
| R76 | 56K | P23146 | 56K | P23146 | 56K | 56K | Filter |
| R77 | 33K | P23138 | 33K | P23138 | 33K | 33K | Feedback Network |
| R78 | 470K | P23139 | 470K | P23139 | 470K | 470K | Feedback Network |
| R79 | 220K | P23128 | 220K | P23128 | 220K | 220K | Feedback Network |
| R80 | 100K | P23120 | 100K | P23120 | 100K | 100K | Horiz. Phase Det. Load |
| R81 | 100K | P23120 | 100K | P23120 | 100K | 100K | Horiz. Phase Det. Load |
| R82 | 4.7 Meg. | P23140 | 4.7 Meg. | P23140 | 4.7 Meg. | 4.7 Meg. | Horiz. Phase Det. Load |
| R83 | 470K | P23118 | 470K | P23118 | 470K | 470K | Horiz. AFC Filter Network |
| R84 | 560K | P23133 | 560K | P23133 | 560K | 560K | Horiz. Osc. Plate |
| R85 | 150K | P23141 | 150K | P23141 | 150K | 150K | Horiz. Osc. Cathode |
| R86 | 100K | P23120 | 100K | P23120 | 100K | 100K | Horiz. Osc. Grid |
| R87 | 270K | P23149 | 270K | P23149 | 270K | 270K | Horiz. Osc. Plate Decoupling |
| R88 | 22K | P23100 | 22K | P23100 | 22K | 22K | Filter |
| R89 | 68K | P23142 | 68K | P23142 | 68K | 68K | Parasitic Supp. |
| R90 | 1 Meg. | P23112 | 1 Meg. | P23112 | 1 Meg. | 1 Meg. | Horiz. Output Grid |
| R91 | 82K | P23143 | 82K | P23143 | 82K | 82K | Horiz. Output Cathode |
| R92 | 820K 5% | P23106 | 820K 5% | P23106 | 820K 5% | 820K 5% | Horiz. Output Screen |
| R93 | 10K | A21100 | 10K | A21100 | 10K | 10K | Damper Filter Tapped @ 750K, Wire Wound |
| R94 | 3.3K | P23144 | 3.3K | P23144 | 3.3K | 3.3K | NV Filament Wire Wound |
| R95 | 1 Meg. | P23145 | 1 Meg. | P23145 | 1 Meg. | 1 Meg. | NV Filter |
| R96 | 10K | P23104 | 10K | P23104 | 10K | 10K | Bias Network Wire Wound |
| R97 | 100K | P23102 | 100K | P23102 | 100K | 100K | Filter Wire Wound |
| R98 | 100K | A2225-2225 | 100K | A2225-2225 | 100K | 100K | Surge Limiter Wire Wound |

Note 1. Some models use 1.2 Meg resistor in this application.
Note 2. Not used in all models.
Note 3. Some models use 1 Meg resistor in this application.

SILVERTONE MODELS
9123 (Ch. 110.499), 9124 (Ch. 110.499-1),
9126 (Ch. 110.499-2)

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 | | REPLACEMENT DATA | | | | SPRAGUE PART No. | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|----------|------|---------------------|------------------|---------------------------|---------------|------------------|---|
| | CAP. | VOLT | SILVERTONE PART No. | AEROVOX PART No. | CORNELL DUBILIER PART No. | ERIE PART No. | | |
| C1A | 40 | 450 | A20126 | AFH86J | UP4445 | | TVL-64 | ▲ Filter |
| B | 40 | 450 | | | | | | ▲ Filter |
| C2A | 40 | 250 | A20127 | AFH84F2D | UP43145C | | D9041 | ▲ Filter |
| B | 20 | 250 | | | | | | ▲ Filter |
| C | 10 | 150 | | | | | | ▲ V. Amp. Screen Byp. |
| C3 | 500 | 6 | P20128 | FRS6/500 | BRH605 | | TVA-4 | Bias Filter |
| C4 | 1 | 50 | P20129 | E26E29 | BER1-50 | | TVA-11 | Stabilizing Cap. |
| C5A | 40 | 450 | A20128 | AF8423J | UP421145 | | TVL-40 | ▲ Filter |
| B | 20 | 450 | | | | | | ■ Decoupling |
| C | 10 | 450 | | | | | | ▲ Vert. Gsc. Dec. |
| D | 10 | 450 | | | | | | Vert. Output Dec. |
| C6 | 100 | 25 | P20130 | FRS50/100 | BRH251A | | TVA-8 | Vert. Output Cath. Byp. |
| C7 | 10 | | | | | | | Fixed Trimmer |
| C8 | 10 | | | | | NPKK-10 | | Fixed Trimmer |
| C9 | 1500 | | | | | NPKK-10 | | Fixed Trimmer |
| C10 | 270 | | | | | GP2K-0015 | | AGC Filter |
| C11 | 270 | | | | | GP2K-270 | | RF Coupling |
| C12 | 1.5 | | | | | GP2K-270 | | RF Coupling |
| C13 | 1.5 | | | | | | | Neutralizing |
| C14 | .68 | | | | | | | Neutralizing |
| C15 | 6 | | | | | | | RF Coupling |
| C16 | 2.2 | | | | | NPKK-8 | | RF Coupling |
| C17 | 1500 | | | | | | | RF Coupling |
| C18 | 22 | | | | | GP2L-0015 | | RF Decoupling |
| C19 | 1500 | | | | | GP2L-0015 | | Fixed Trimmer |
| C20 | 10 | | | | | NPKK-10 | | Csc. Decoupling |
| C21 | 4.7 | | | | | NPKK-4.7 | | Fixed Trimmer |
| C22 | 4.7 | | | | | NPKK-4.7 | | Csc. Feedback |
| C23 | 1500 | | | | | GP2L-0015 | | Csc. Feedback |
| C24 | 1500 | | | | | GP2L-0015 | | Filament Bypass |
| C25 | 68 | | | | | GP2L-0015 | | Mixer Decoupling |
| C26 | 270 500 | | | | | | | Fixed Trimmer |
| C27 | 5000 | | P19109 | 1468-00025 | SW575 | GP1K-270 | 1FM-325 | IF Coupling |
| C28 | 5000 | | P19109 | 1467-005 | 1D5D5 | 811-005 | 29C1 | AGC Filter |
| C29 | 5000 | | P19109 | 1467-005 | 1D5D5 | 811-005 | 29C1 | 1st V. IF Decoupling |
| C30 | 100 | | P19110 | 1467-005 | 1D5D5 | 811-005 | 29C1 | 1st V. IF Fil. Bypass |
| C31 | .1 400 | | P19111 | 1468-0001 | SW571 | GP1K-100 | 1FM-31 | IF Coupling |
| C32 | 5000 | | P19109 | 1467-005 | 1D5D5 | 811-005 | 29C1 | 2nd V. IF Decoupling |
| C33 | 5000 | | P19109 | 1467-005 | 1D5D5 | 811-005 | 29C1 | 2nd V. IF Fil. Bypass |
| C34 | 100 | | P19110 | 1468-0001 | SW571 | GP1K-100 | 1FM-31 | IF Coupling |
| C35 | 5000 | | P19109 | 1467-005 | 1D5D5 | 811-005 | 29C1 | 3rd V. IF Cath. Bypass |
| C36 | 5000 | | P19109 | 1467-005 | 1D5D5 | 811-005 | 29C1 | 3rd V. IF Decoupling |
| C37 | 5000 | | P19109 | 1467-005 | 1D5D5 | 811-005 | 29C1 | 3rd V. IF Fil. Bypass |
| C38 | 100 | | P19110 | 1468-0001 | SW571 | GP1K-100 | 1FM-31 | IF Coupling |
| C39 | 100 | | P19110 | 1468-0001 | SW571 | GP1K-100 | 1FM-31 | IF Coupling |
| C40 | 5 | | P19114 | 1468-00005 | SW575 | NPKK-5 | 25-55 | V. Bias Filter |
| C41 | 10000 | | P19113 | 1468-0001 | SW571 | GP1K-100 | 1FM-31 | Bias Filter |
| C42 | .01 400 | | P19116 | 1468-0001 | SW571 | GP2-335-01 | TX-11 | AGC Filter |
| C43 | 470 500 | | P19108 | 1468-0005 | SW575 | GP2K-470 | 1FM-35 | V. Amp. Cath. Bypass |
| C44 | 680 500 | | P19104 | 1468-0005 | SW577 | GP2K-680 | 1FM-37 | V. Amp. Cath. Bypass |
| C45 | 67 500 | | | | | | | Fixed Trimmer |
| C46 | 47 | | | | | | | Fixed Trimmer |
| C47 | .1 600 | | P19121 | 1468-00005 | SW575 | NPKK-50 | 25-45 | Video Coupling |
| C48 | 22 500 | | P1990 | 1468-000025 | SW575 | GP1K-22 | 25-45 | DC Res. Plate Bypass |
| C49 | 5000 | | P19117 | 1468-0004 | SW574 | GP2K-250 | 1FM-34 | S. IF Coupling |
| C50 | 5000 | | P19108 | 1467-005 | 1D5D5 | 811-005 | 29C1 | S. IF Screen Bypass |
| C51 | .05 500 | | P19115 | 1468-0001 | SW575 | NPKK-5 | TX-12 | S. IF Decoupling |
| C52 | .001 500 | | P19103 | 1468-0001 | SW571 | GP2L-001 | TX-21 | Diode Load Cap. |
| C53 | 3300 | | P19118 | | SW571 | GP2M-0033 | | De-emphasis |
| C54 | .05 200 | | P19119 | P288-06 | G7285 | | TX-15 | Audio Coupling |
| C55 | .005 600 | | P1987 | P888-005 | G75D5 | GP2M-005 | TX-25 | Audio Coupling |