

TRUETONE
MODELS 2D1095, 2D2052

TRUETONE MODEL 2D2052

| | |
|------------|--|
| TRADE NAME | Truetone Models 2D1095, 2D2052 |
| SUPPLIER | Western Auto Supply Co., 2107 Grand Ave., Kansas City, Mo. |
| TYPE SET | Television Receiver |
| TUBES | Twenty Two |

POWER SUPPLY 110-120 Volts AC-60 Cycle
TUNING RANGE—Channels 2 thru 13

RATING 2 Amp. @ 117 Volts AC

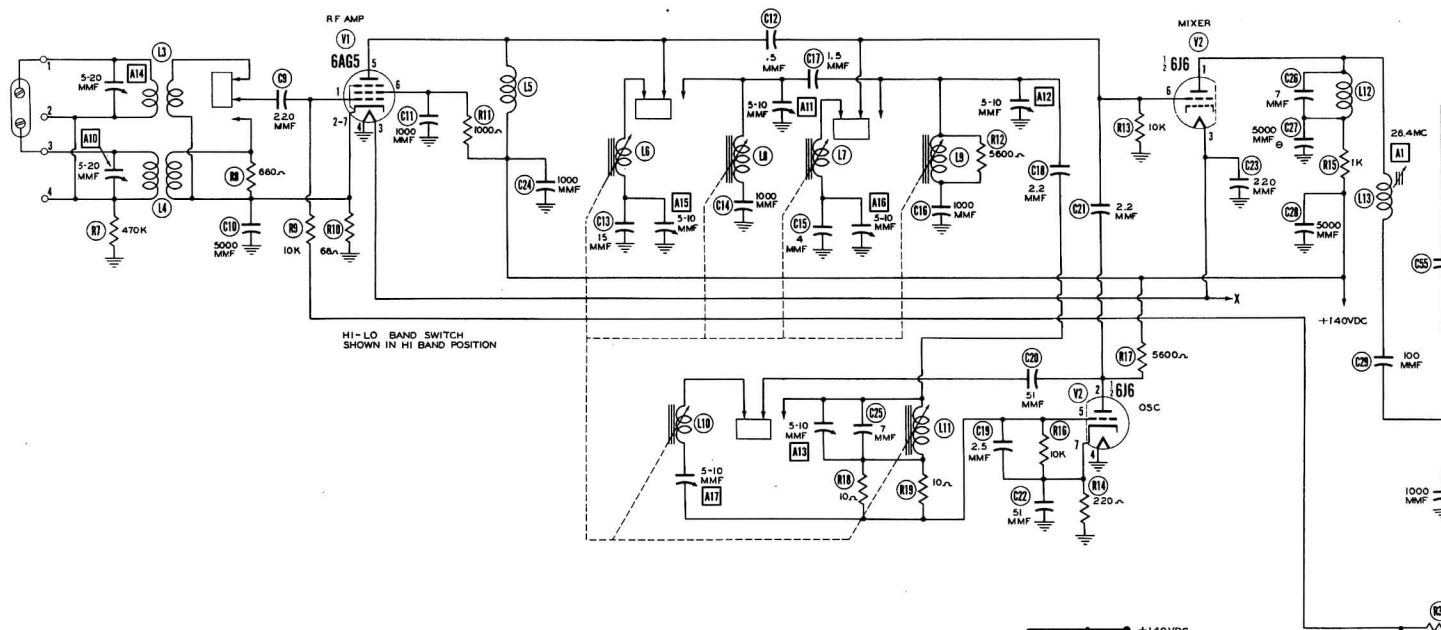
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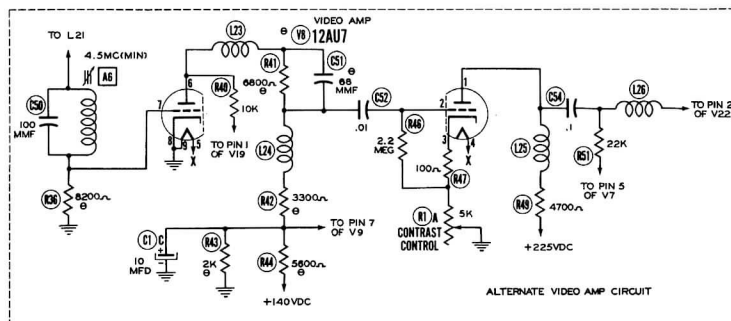
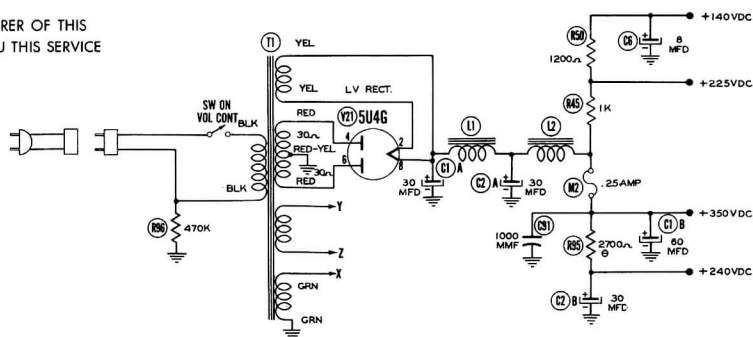
HOWARD W. SAMS & CO., INC. • Indianapolis 1, Indiana

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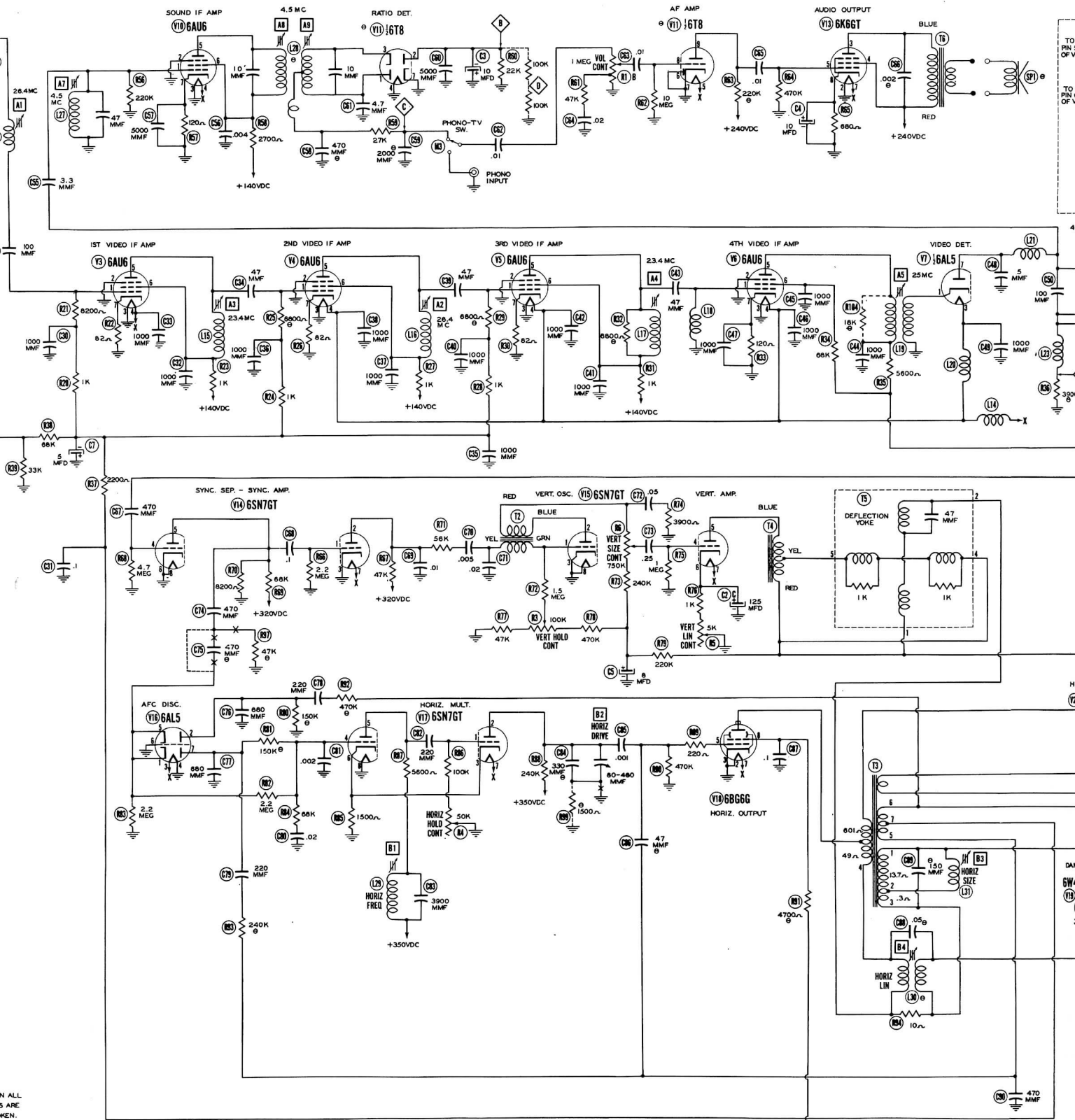
THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE



A PHOTOFAC STANDARD NOTATION SCHEMATIC
© Howard W. Sams & Co., Inc. 1951

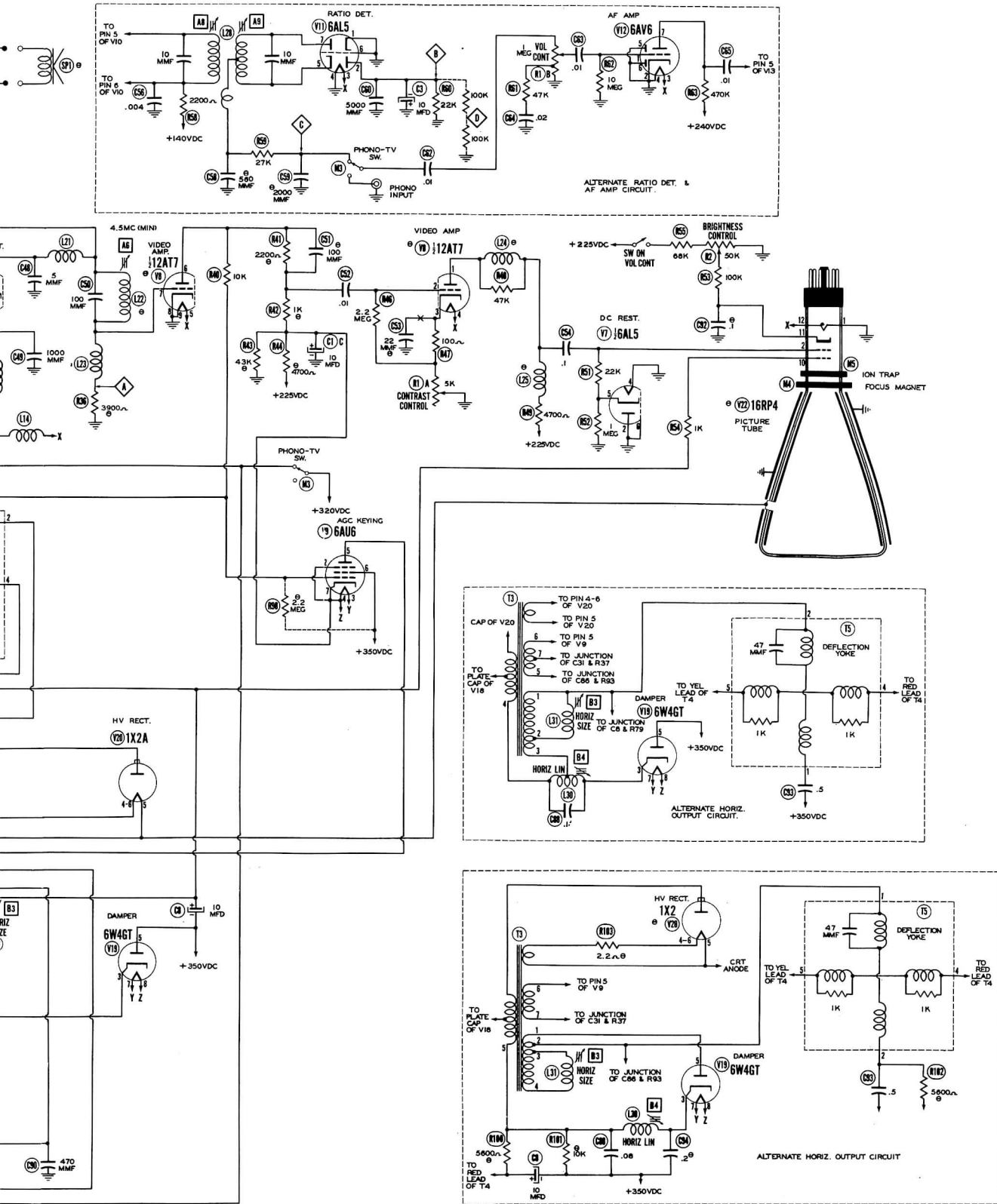
SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DOTTED IN PARTS ARE NOT USED IN ALL MODELS. WHEN DOTTED IN PARTS ARE USED POINTS MARKED X ARE BROKEN.



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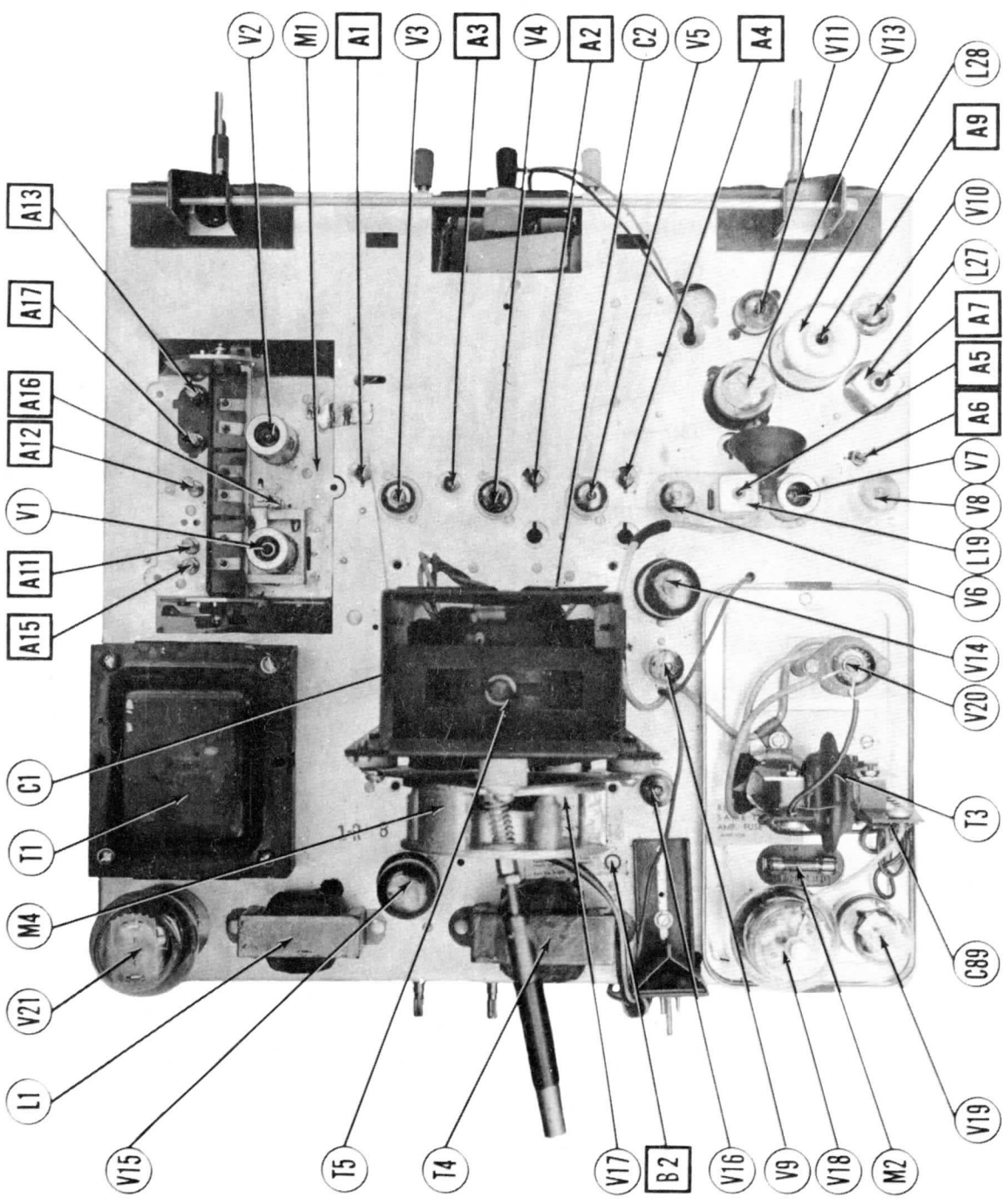
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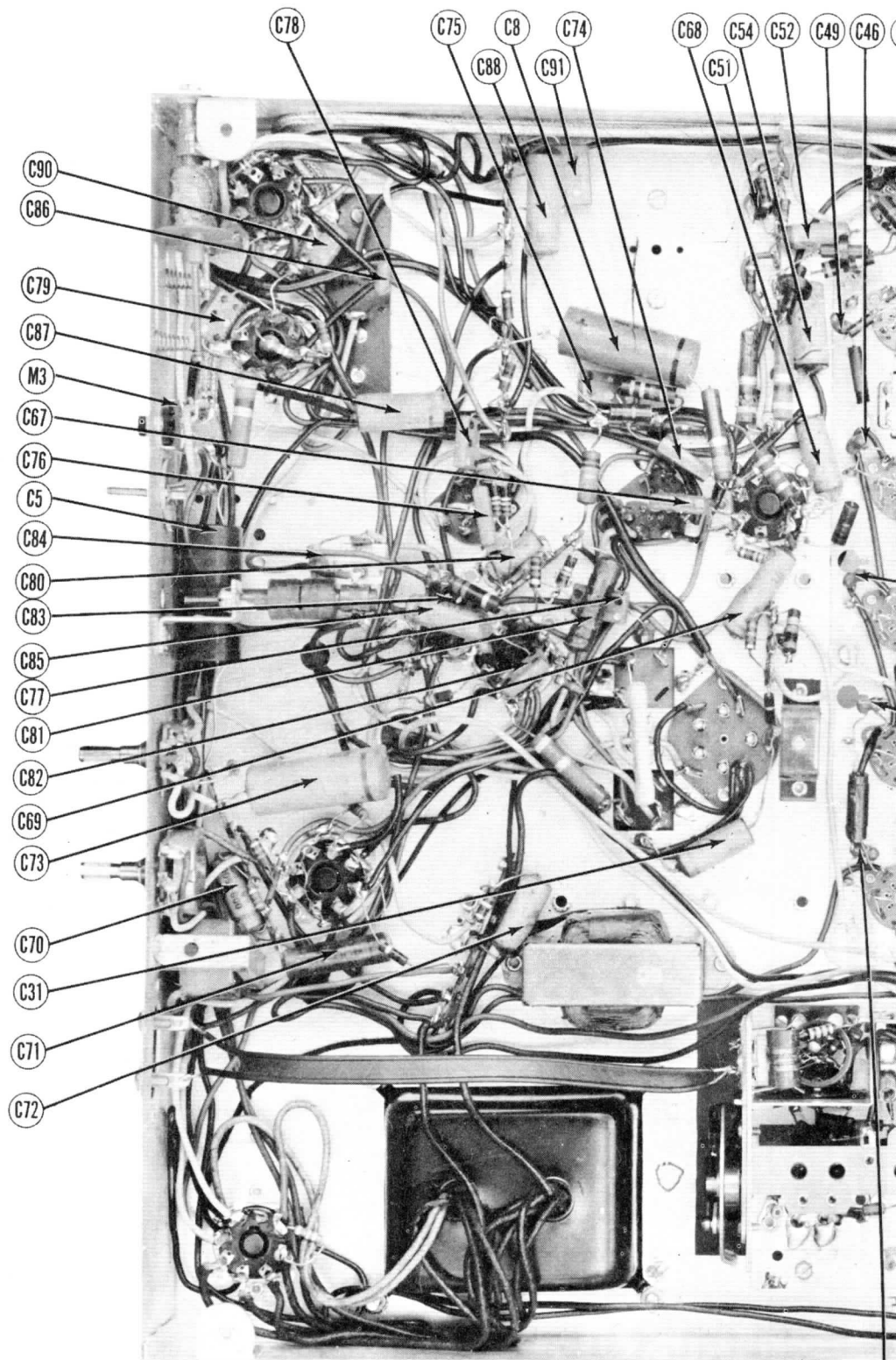


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MODELS 2D1095, 2D2052

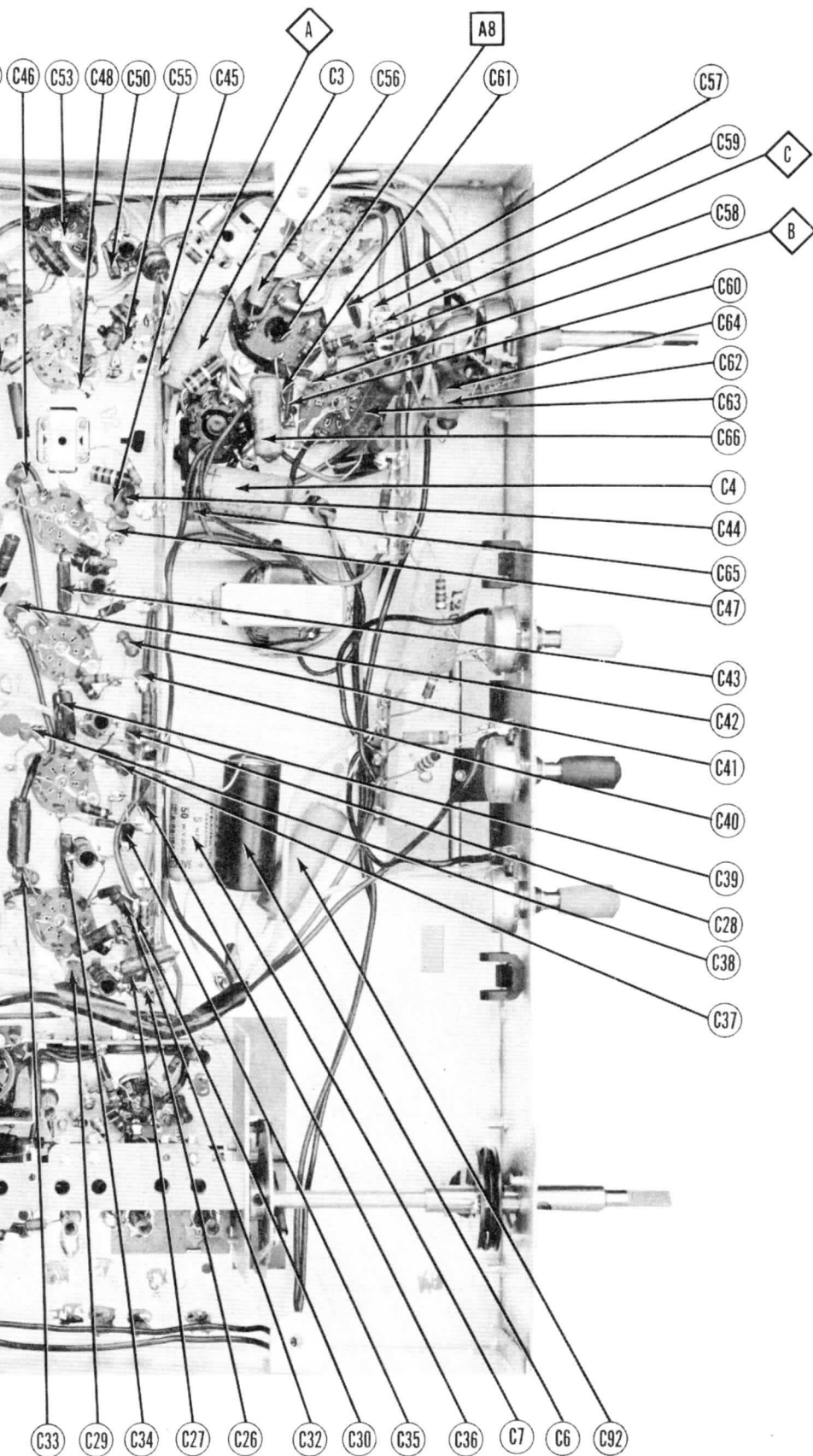
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MAIN TOP SISSAHD



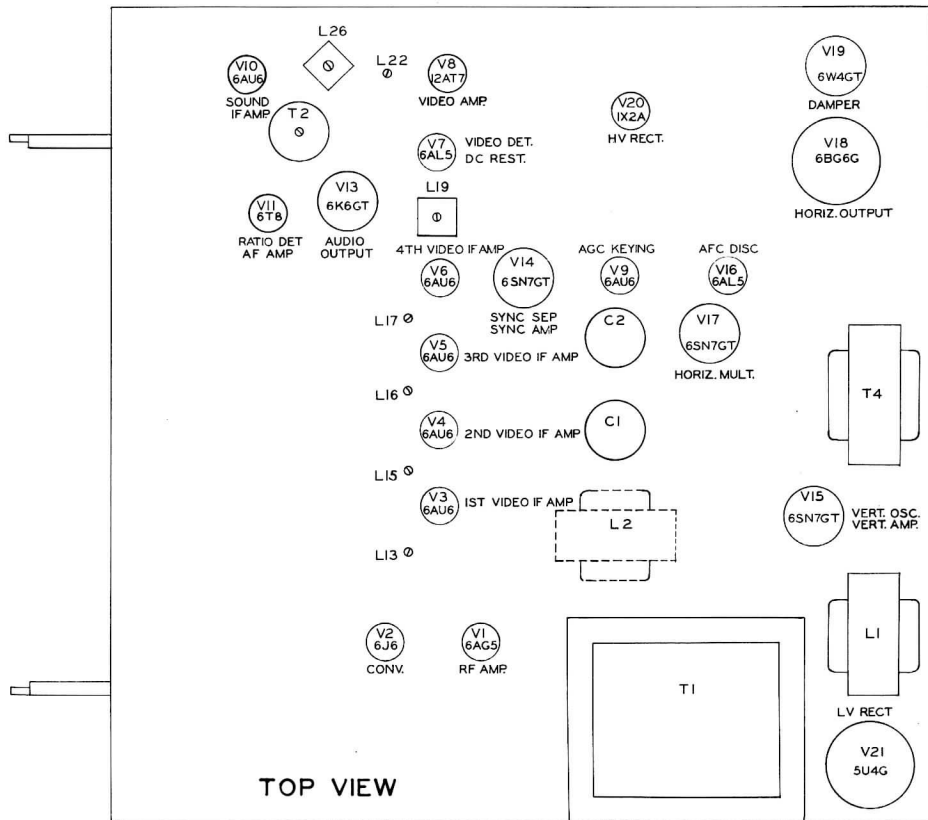


CHASSIS BOTTOM VIEW-CAPACITOR

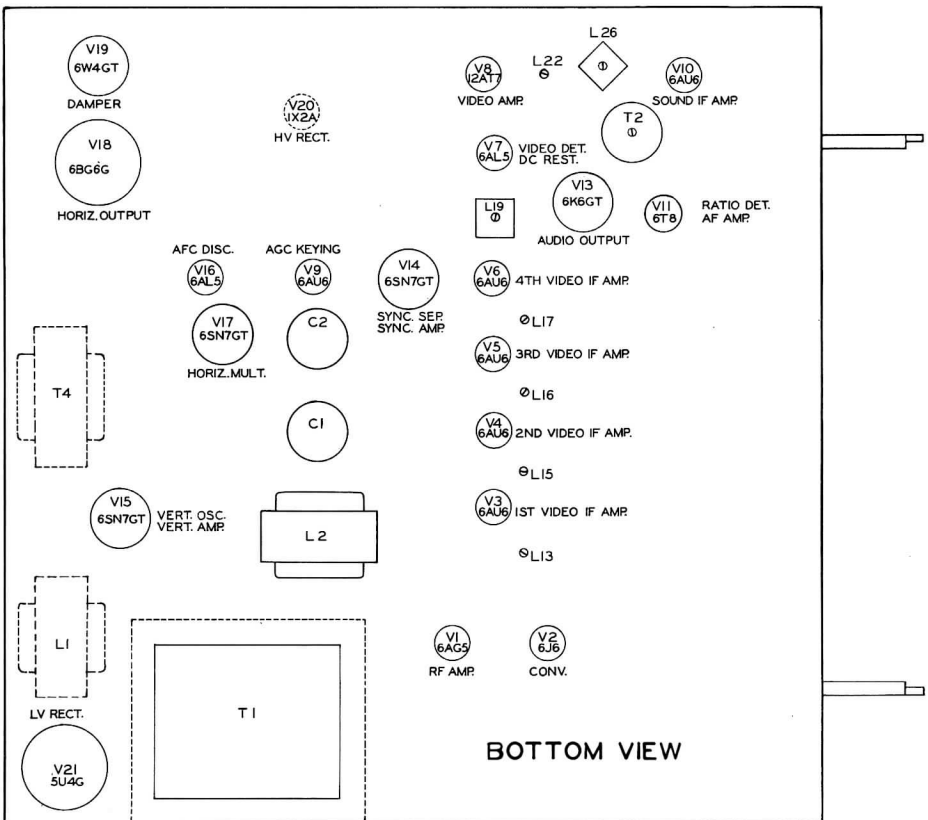


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MODELS 2D1095, 2D2052

R AND ALIGNMENT IDENTIFICATION



TOP VIEW



BOTTOM VIEW

TUBE PLACEMENT CHART

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

The end of the high voltage lead should be securely taped and kept away from the chassis. Do not remove the horizontal oscillator tube to kill the high voltage.

VIDEO IF ALIGNMENT

Remove the converter tube (V2) from its socket and replace it with a 6J6 which has pin 2 removed. Connect the negative lead of a 3 volt battery to the junction of R20 and C7, connect the positive lead to chassis.

| DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---------------|---|---------------------------|----------------------------|---------|---|--------|---|
| 1. Direct | High side to ungrounded tube shield floating over dummy converter tube (V2). Low side to chassis. | Not used | 26.4MC | Any | Use VTVM. DC Probe to Point A. Common to chassis. | A1, A2 | Adjust for maximum deflection. |
| 2. Direct | " | " | 23.4MC | " | " | A3, A4 | " |
| 3. Direct | " | " | 25MC | " | " | A5 | " |
| 4. Direct | " | 25MC (10MC SWP) | 23.0MC 26.75MC | " | Vert. Amp. to Point A. Low side to chassis. | A5 | Adjust for maximum deflection. Check for response curve similar to figure 1. If necessary retouch A5 for proper response. |

4.5MC TRAP ADJUSTMENT

| DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---------------|---|---------------------------|----------------------------|---------|---|--------|--|
| 5. .001MFD | High side to pin 1 (cathode) of 6AL5 (V7). Low side to chassis. | Not used | 4.5MC (400% Mod.) | Any | Vert. Amp. to pin 1 (plate) of 12AT7 (V8). Low side to chassis. | A6 | Adjust for MINIMUM 400% indication on scope. |

SOUND IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

Connect two matched 100KΩ (±1%) resistors in series from Point B to chassis. The junction of these two resistors is alignment Point D as shown on the schematic.

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | CONNECT VTVM | ADJUST | REMARKS |
|---------------|---|----------------------------|---------|---|--------|--|
| 6. .001MFD | High side to pin 1 (cathode) of 6AL5 (V7). Low side to chassis. | 4.5MC (Unmod.) | Any | DC Probe to Point B. Common to chassis. | A7, A8 | Adjust for maximum deflection. |
| 7. .001MFD | " | " | " | DC Probe to Point C. Common to Point D. | A9 | Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting. |

SOUND IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

| DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---------------|---|---------------------------|----------------------------|---------|---|--------|--|
| 6. .001MFD | High side to pin 1 (cathode) of 6AL5 (V7). Low side to chassis. | 4.5MC (450KC SWP) | 4.5MC | Any | Vert. Amp. to Point B. Low side to chassis. | A7, A8 | Disconnect stabilizer capacitor C3. Adjust for maximum amplitude and symmetry as per figure 2. |
| 7. .001MFD | " | " | " | " | Vert. Amp. to Point C. Low side to chassis. | A9 | Reconnect capacitor C3. Adjust A9 so 4.5MC occurs at center of crossover lines as per figure 3. SLIGHTLY retouch A8 for maximum amplitude and straightness of crossover lines. |

TUNER ALIGNMENT

Pre-set the adjusting screws as shown in figure 5.
Turn the tuning shaft until the tuning core carriage is at the top of its stroke.
Pre-set all tuning cores 1.6 inches from the top of the core to the coil mounting strip. Then turn the low band oscillator core (L11) an additional 4 turns out of the coil.
Remove the dummy converter tube and replace the original 6J6 in its socket.

LOW BAND TUNER ALIGNMENT

Turn the tuning control until the cores are at the extreme top of their stroke with the switch in "low band" position.

| DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|-------------------------|--|--|--|------------------|---|---------------|--|
| 8. Two 120Ω carbon res. | Across antenna terminals with 120Ω in each lead. | 85MC (10MC SWP) | 83.25MC 87.25MC | 6 | Vert. Amp. to Point A. Low side to chassis. | A10, A11, A12 | Adjust for maximum amplitude of response with symmetrical peaks. If A-11 shows insufficient range turn L8 core slightly into the coil. |
| 9. " | " | " | " | " | " | A13 | Adjust to place video marker at 50% on response curve as per figure 4. If necessary repeat step 8. |
| 10. " | " | 63MC (10MC SWP) 69MC (10MC SWP) 79MC (10MC SWP) 57MC (10MC SWP) | 61.25MC 65.75MC 67.25MC 71.75MC 77.25MC 81.75MC 55.25MC 59.75MC | 3 4 5 2 | " | All, A12 | Adjust tuning control until video marker appears at 50% on response curve. Adjust All and A12 for compromise which will give best overall response across the low band channels. |

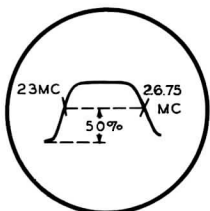


FIG. 1

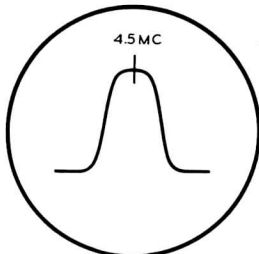


FIG. 2

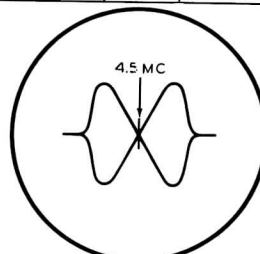


FIG. 3

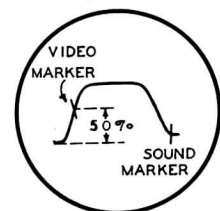


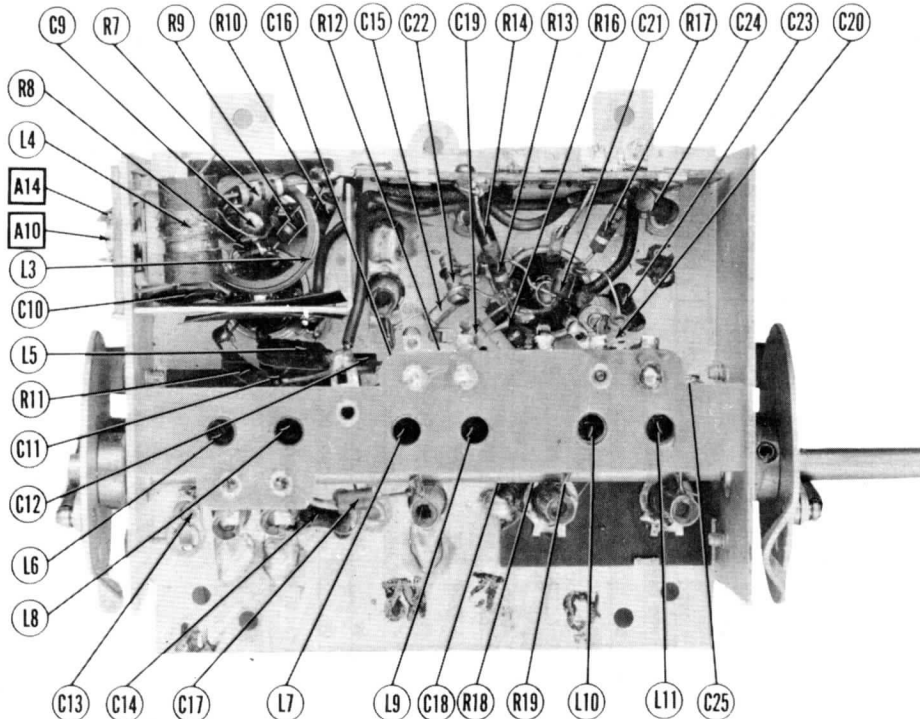
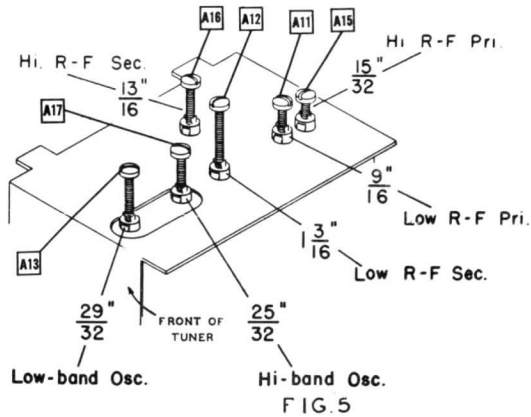
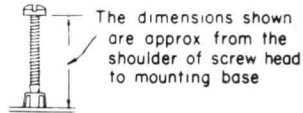
FIG. 4

ALIGNMENT INSTRUCTIONS (CONT.)

HIGH BAND TUNER ALIGNMENT

Turn the tuning control until the cores are at the extreme top of their stroke with the switch to "high band" position.

| DUMMY ANTENNA | SWEEP GENERATOR COUPLING | SWEEP GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|--------------------------|--|--|--|-------------------------------|---|---------------|--|
| 11. Two 120Ω carbon res. | Across antenna terminals with 120Ω in each lead. | 213MC (10MC SWP) | 211.25MC 215.75MC | 13 | Vert. Amp. to Point A. Low side to chassis. | A14, A15, A16 | Adjust for maximum amplitude of response with symmetrical peaks. |
| 12. " | " | " | " | " | " | A17 | Adjust to place video marker at 50% on response curve as per figure 4. If necessary repeat step 11. |
| 13. " | " | 207MC (10MC SWP) 201MC (10MC SWP) 195MC (10MC SWP) 189MC (10MC SWP) 183MC (10MC SWP) 177MC (10MC SWP) | 205.25MC 209.75MC 203.75MC 197.75MC 191.75MC 185.75MC 179.75MC | 12 11 10 9 8 7 | " | A15, A16 | Adjust tuning control to place video marker at 50% on response curve. Adjust A15 and A16 for compromise which will give best overall response across the high band channels. |



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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 | 6AG5 | 0V | .6VDC | 6.3VAC | 0V | 135VDC | 130VDC | .6VDC | | |
| V 2 | 6J6 | 130VDC | 80VDC | 6.3VAC | 0V | 5-1VDC | 0V | 2.8VDC | | |
| V 3 | 6AU6 | 0V | 0V | 0V | 6.3VAC | 130VDC | 130VDC | 1VDC | | |
| V 4 | 6AU6 | 0V | 0V | 0V | 6.3VAC | 130VDC | 130VDC | 1VDC | | |
| V 5 | 6AU6 | 0V | 0V | 0V | 6.3VAC | 130VDC | 130VDC | 1VDC | | |
| V 6 | 6AU6 | 0V | 0V | 0V | 6.3VAC | 285VDC | 135VDC | 1.2VDC | | |
| V 7 | 6AL5 | 0V | 0V | 5.7VDC | 0V | 1.4VDC | 0V | -3.8VDC | | |
| V 8 | 12AT7 | 140VDC | .5VDC | 40VDC | 6.3VAC | 6.3VAC | 125VDC | -4VDC | 0V | 0V |
| V 9 | 6AU6 | 125VDC | 155VDC | 155VDC | 155VDC | * | 320VDC | 155VDC | | |
| V 10 | 6AU6 | 0V | 0V | 0V | 6.3VAC | 115VDC | 115VDC | 1VDC | | |
| V 11 | 6T8 | -2VDC | -4VDC | -2VDC | 0V | 6.3VAC | 0V | 0V | -4VDC | 80VDC |
| V 12 | 6AV6 | NOT USED IN ALL MODELS | | | | | | | | |
| V 13 | 6K6GT | 0V | 0V | 230VDC | 240VDC | 0V | 0V | 6.3VAC | 18VDC | |
| V 14 | 6SN7GT | -1.5VDC | 70VDC | 0V | -1.6VDC | 35VDC | 0V | 6.3VAC | 0V | |
| V 15 | 6SN7GT | -2.8VDC | 105VDC | 0V | 0V | 430VDC | 15VDC | 6.3VAC | 0V | |
| V 16 | 6AL5 | 2.6VDC | -3VDC | 6.3VAC | 0V | 2.6VDC | 0V | -2VDC | | |
| V 17 | 6SN7GT | -4VDC | 115VDC | 12VDC | -1VDC | 290VDC | 12VDC | 6.3VAC | 0V | |
| V 18 | 6BG6 | -2VDC | 0V | 0V | -4VDC | -18VDC | -18VDC | 6.3VAC | 270VDC | TOP CAP * |
| V 19 | 6W4GT | 440VDC | * | 440VDC | * | 320VDC | * | 155VDC | 155VDC | |
| V 20 | 1X2A | * DO NOT MEASURE | | | | | | | | |
| V 21 | 5U4G | 0V | 340VDC | *A | 340VAC | ▲ | 340VAC | 320VDC | 340VDC | |
| V 22 | 16RP4 | 0V | 1.2VDC | 430VDC | 95VDC | 0V | 6.3VAC | 6.3VAC | | |

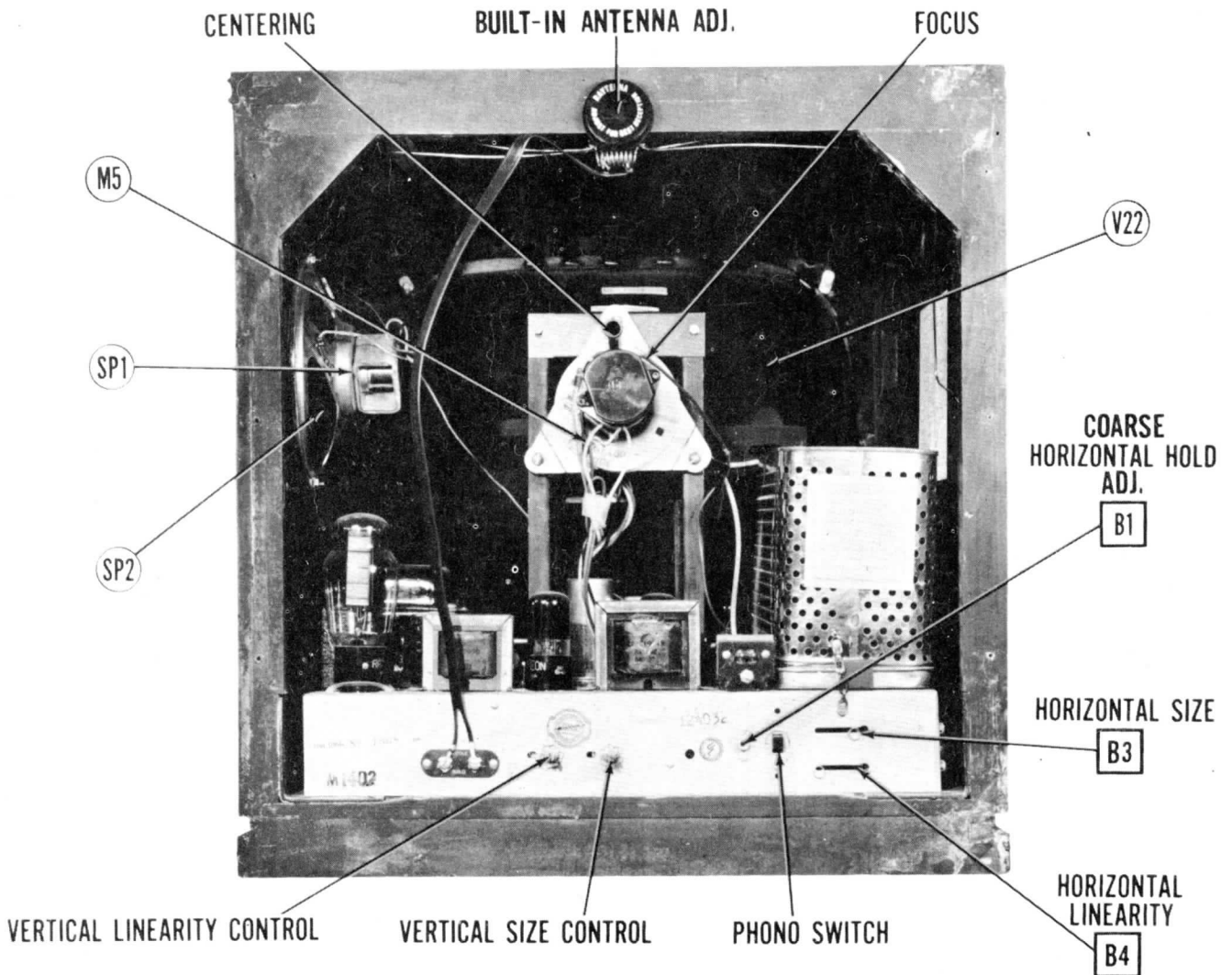
§ TAKEN WITH VACUUM TUBE VOLTMETER
 * DO NOT MEASURE
 ▲ 117VAC MEASURED ACROSS PINS 3 AND 5 OF V21
 † 6.3VAC MEASURED ACROSS FILAMENTS
 PHONO-TV SWITCH IN TV POSITION

RESISTANCE READINGS

| Item | Tube | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 |
|------|--------|-------------------------|-----------|--------|----------|----------|--------|----------|---------|---------------|
| V 1 | 6AG5 | 43KΩ | 86Ω | .1Ω | 0Ω | †2.3KΩ | †3.3KΩ | 68Ω | | |
| V 2 | 6J6 | †3.3KΩ | †7.9KΩ | .1Ω | 0Ω | 10KΩ | 10KΩ | 220Ω | | |
| V 3 | 6AU6 | 90KΩ | 0Ω | 0Ω | .1Ω | †3.3KΩ | †3.3KΩ | 82Ω | | |
| V 4 | 6AU6 | 90KΩ | 0Ω | 0Ω | .1Ω | †3.3KΩ | †3.3KΩ | 82Ω | | |
| V 5 | 6AU6 | 90KΩ | 0Ω | 0Ω | .1Ω | †3.3KΩ | †3.3KΩ | 82Ω | | |
| V 6 | 6AU6 | 2.3KΩ | 0Ω | 0Ω | .1Ω | †5.7KΩ | †68KΩ | 120Ω | | |
| V 7 | 6AL5 | .9Ω | 0Ω | 1.2Ω | 0Ω | 1 Meg. | 0Ω | 3.9KΩ | | |
| V 8 | 12AT7 | †5.8KΩ | 2.2 Meg. | 5.1KΩ | .1Ω | .1Ω | †9KΩ | 3.9KΩ | 0Ω | 0Ω |
| V 9 | 6AU6 | †20KΩ | †5.8KΩ | †5.8KΩ | †5.8KΩ | 90KΩ | †70Ω | †5.8KΩ | | |
| V 10 | 6AU6 | 3.1Ω | 0Ω | 0Ω | .1Ω | †4.5KΩ | †4.5KΩ | 120Ω | | |
| V 11 | 6T8 | Inf. | 22KΩ | Inf. | 0Ω | .1Ω | 0Ω | 0Ω | 10 Meg. | †220KΩ |
| V 12 | 6AV6 | NOT USED IN ALL MODELS. | | | | | | | | |
| V 13 | 6K6GT | Inf. | 0Ω | †3.3KΩ | †2.8KΩ | 470KΩ | Inf. | .1Ω | 680Ω | |
| V 14 | 6SN7GT | 2.2 Meg. | †47KΩ | 0Ω | 4.7 Meg. | †30KΩ | 0Ω | .1Ω | 0Ω | |
| V 15 | 6SN7GT | 1.5 Meg. | †1.1 Meg. | 0Ω | 1 Meg. | †800Ω | 6KΩ | .1Ω | 0Ω | |
| V 16 | 6AL5 | 2.2 Meg. | 150KΩ | .1Ω | 0Ω | 2.2 Meg. | 0Ω | 4.5 Meg. | | |
| V 17 | 6SN7GT | 100KΩ | †220KΩ | 1.5KΩ | 4.4 Meg. | †5.8KΩ | 1.5KΩ | .1Ω | 0Ω | |
| V 18 | 6BG6 | 4.5 Meg. | 0Ω | 0Ω | 340KΩ | 470KΩ | 470KΩ | .1Ω | †4.8KΩ | TOP CAP #60Ω |
| V 19 | 6W4GT | 48Ω | 90KΩ | 400KΩ | 550KΩ | †70Ω | 90KΩ | †5.8KΩ | Inf. | TOP CAP #660Ω |
| V 20 | 1X2A | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | |
| V 21 | 5U4G | Inf. | 35KΩ | 470KΩ | 30Ω | 470KΩ | 30Ω | †70Ω | 35KΩ | |
| V 22 | 16RP4 | 0Ω | 1 Meg. | †1KΩ | 100KΩ | 150KΩ | .1Ω | | | |

† MEASURED FROM PIN 8 OF V21
 # MEASURED FROM PIN 3 OF V19
 PHONO-TV SWITCH IN TV POSITION

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 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.



CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and tune in a TV station, preferably a test pattern.

Turn the horizontal hold control to the mid-position of its range.

Adjust the horizontal frequency slug (B1) until the picture synchronizes horizontally.

Adjust the horizontal drive trimmer (B2) counter clockwise until vertical white lines appear in the picture, and then clockwise 1/2 turn farther than required to just remove the white lines.

Adjust the horizontal size slug until the picture fills the tube horizontally.

Adjust the horizontal linearity slug until the picture is symmetrical from left to right.

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

| ITEM No. | USE | REPLACEMENT DATA | | RMA BASE TYPE | NOTES |
|----------|------------------------------|-------------------|----------------------|---------------|--------------------------------|
| | | TRUETONE PART No. | STANDARD REPLACEMENT | | |
| V1 | RF Amp. | 6AG5 | 6AG5 | 7BD | |
| V2 | Converter | 6J6 | 6J6 | 7BF | |
| V3 | 1st Video IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V4 | 2nd Video IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V5 | 3rd Video IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V6 | 4th Video IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V7 | Video Det. -DC Restorer | 6AL5 | 6AL5 | 6BT | |
| V8 | Video Amp. | 12AT7 | 12AT7 | 9A | |
| V9 | AGC Keying | 6AU6 | 6AU6 | 7BK | |
| V10 | Sound IF Amp. | 6AU6 | 6AU6 | 7BK | |
| V11A | Ratio Det. -AF Amp. | 6T9 | 6T9 | 9E | |
| V11B | Ratio Det. | 6AL5 | 6AL5 | 6BT | |
| V12 | AF Amp. | 6AV6 | 6AV6 | 7BT | Not used in models using V11A. |
| V13 | Audio Output | 6K6GT | 6K6GT | 7S | |
| V14 | Sync. Sep. - Sync. Amplifier | 6SN7GT | 6SN7GT | 8BD | |
| V15 | Vert. Osc. -Vert. Amp. | 6SN7GT | 6SN7GT | 8BD | |
| V16 | AFC Discr. | 6AL5 | 6AL5 | 6BT | |
| V17 | Horiz. Mult. | 6SN7GT | 6SN7GT | 8BD | |
| V18 | Horiz. Output | 6BG6G | 6BG6G | 5BT | |
| V19 | Damper | 6W4GT | 6W4GT | 4CG | |
| V20A | H.V. Rectifier | 1X2A | 1X2A | 7CB | |
| V20B | H.V. Rectifier | 1X2 | 1X2 | 7CB | |
| V21 | L.V. Rectifier | 5U4G | 5U4G | 5T | |
| V22 | Picture Tube | 16RP4 | 16RP4 | 12D | |

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 | | | | | | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|--------|------|-------------------|------------------|--------------------|---------------------------|---------------|------------------|---|
| | CAP. | VOLT | TRUETONE PART No. | AEROVOX PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | SPRAGUE PART No. | |
| C1A | 30 | 450 | A-8C-17845 | AFH3666J | | UPT36145 | | TVL-3790 | ▲ Filter |
| C1B | 60 | 450 | | | | | | | ■ Filter |
| C1C | 10 | 450 | | | | | | | ▲ Decoupling |
| C2A | 30 | 450 | A-8C-18487 | AF66J4A | | UPT409 | | TVL-3706 | ■ Filter |
| C2B | 30 | 450 | | PRS25/100 | | | | | ■ Filter |
| C2C | 125 | 25 | | | | | | | ▲ Vert. Output Cath. |
| C3 | 10 | 50 | A-8C-17183 | PRS50/10 | | BR105 | | TVA-1304 | Stabilizing Cap. |
| C4 | 10 | 50 | A-8C-17183 | PRS50/10 | | BR105 | | TVA-1304 | Output Cath. Bypass |
| C5 | 8 | 450 | A-8C-13453 | PRS450/8 | | BR845A | | TVA-1704 | Decoupling |
| C6 | 8 | 450 | A-8C-13453 | PRS450/8 | | BR845A | | TVA-1704 | Decoupling |
| C7 | 5 | 50 | B-8C-11751 | PRS150/4 | | BR105 | | TVA-1303 | AGC Filter |
| C8 | 10 | 150 | A-8C-11495 | PRS150/12 | | BR105 | | TVA-1406 | Decoupling |
| C9 | 220 | | C-8G-16045 | SI220 | D6-221 | | GP2K-220 | 19C13 | RF Coupling |
| C10 | 5000 | | A-8G-13962 | BPD-005 | DD-502 | | 811-005 | 29C1 | RF Amp. Cathode |
| C11 | 1000 | | C-8G-13201 | SI1000 | D6-102 | | GP2L-001 | 19C1 | RF Amp. Screen |
| C12 | .5 | | A-8G-12495-7 | | TCZ-.5 | | | | RF Coupling |
| C13 | 15 | | C-8G-17305 | | TCZ-15 | | NPOK-15 | 19C5 | Fixed Trimmer |
| C14 | 1000 | | C-8G-13201 | SI1000 | D6-102 | | GP2L-001 | 19C1 | RF Bypass |
| C15 | 4 | | C-8G-11893 | | | | NPOK-4 | | Fixed Trimmer |
| C16 | 1000 | | C-8G-13201 | SI1000 | D6-102 | | GP2L-001 | 19C1 | RF Bypass |
| C17 | 1.5 | | A-8G-12495-4 | SI1.5NPO | TCZ-1.5 | | NPOK-1.5 | | RF Coupling |
| C18 | 2.2 | | A-8G-12495-4 | | TCZ-2.2 | | | | Osc. Coupling |
| C19 | 2.5 | | C-8G-15737 | | | | | | Osc. Grid Cap |
| C20 | 51 | | A-8G-11891 | SI50N750 | TCN-51 | | N750L-51 | | Osc. Feedback |
| C21 | 2.2 | | A-8G-12495-4 | | TCZ-2.2 | | | | Osc. Coupling |
| C22 | 51 | | A-8G-11891 | SI50 | TCN-51 | | N750L-51 | 19C9 | Conv. Cath. Bypass |
| C23 | 220 | | C-8G-16045 | SI220 | D6-221 | | GP2K-220 | 19C13 | Conv. Fil. Bypass |
| C24 | 1000 | | C-8G-13201 | SI1000 | D6-102 | | GP2L-001 | 19C1 | RF Bypass |
| C25 | 7 | | C-8G-15224 | | | | N750K-7 | | Fixed Trimmer |
| C26 | 7 | | C-8G-11790 | | TCZ-6.8 | | NPOK-6.8 | | Fixed Trimmer |
| C27 | 5000 | | A-8G-13962 | BPD-005 | DD-502 | ID5D5 | 811-005 | 29C1 | Conv. Plate Dec. |
| C28 | 5000 | | A-8G-13962 | BPD-005 | DD-502 | ID5D5 | 811-005 | 29C1 | RF Bypass |
| C29 | 100 | 500 | C-8F3-8 | 1468-0001 | D6-101 | 5W5T1 | GPIK-100 | 19C11 | IF Coupling |
| C30 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | AGC Filter |
| C31 | .1 | 200 | C-8D-17259 | P288-1 | DF-104 | PTE4P1 | | 2TM-P1 | AGC Filter |
| C32 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | 1st V. IF Dec. |
| C33 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | 1st V. IF Fil. |
| C34 | 47 | 500 | C-8F3-109 | 1468-00005 | D6-470 | 5W5Q5 | GPIK-47 | 1FM-45 | IF Coupling |
| C35 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | AGC Filter |
| C36 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | AGC Filter |
| C37 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | AGC Filter |
| C38 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | 2nd V. IF Dec. |
| C39 | 47 | 500 | C-8F3-109 | 1468-00005 | D6-470 | 5W5Q5 | GPIK-47 | 1FM-45 | 2nd V. IF Fil. |
| C40 | 1000 | | C-8G-13201 | SI1000 | D6-470 | 5W5Q5 | GPIK-47 | 1FM-45 | IF Coupling |
| C41 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | AGC Filter |
| C42 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | 3rd V. IF Dec. |
| C43 | 47 | 500 | C-8F3-109 | 1468-00005 | D6-470 | 5W5Q5 | GPIK-47 | 1FM-45 | 3rd V. IF Fil. |
| C44 | 1000 | | C-8G-13201 | SI1000 | D6-470 | 5W5Q5 | GPIK-47 | 1FM-45 | IF Coupling |
| C45 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | 4th V. IF Plate Dec. |
| C46 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | 4th V. IF Screen |
| C47 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | 4th V. IF Fil. |
| C48 | 5 | | C-8G-12166 | SI5NPO | TCZ-4.7 | 5N5V5 | NPOK-5 | MS-55 | V. Diode Filter |
| C49 | 1000 | | C-8G-13201 | SI1000 | D6-102 | 1W5D1 | GP2L-001 | 19C1 | V. Det. -DC Res. Fil. |
| C50 | 100 | 500 | C-8F3-111 | 1469-0001 | TCZ-100 | 5R5T1 | NPOM-100 | MS-31 | Fixed Trimmer |
| C51 | 100 | 500 | C-8F3-111 | 1469-0001 | TCZ-100 | 5R5T1 | NPOM-100 | MS-31 | Peaking Note 1. |
| C52 | .01 | 400 | C-8D-17270 | P488-01 | D6-103 | PTE4S1 | 821-01 | 4TM-S1 | Video Coupling |
| C53 | 22 | | | SI22 | D6-220 | 5W5Q25 | GPIK-22 | 19C23 | V. Amp. Cath. † |
| C54 | .1 | 400 | C-8D-10983 | P488-1 | DF-104 | PTE4P1 | | 4TM-P1 | Video Coupling |
| C55 | 3.3 | | A-8G-12495-3 | SI3.3NPO | TCZ-3.3 | | NPOK-3.3 | | S. IF Coupling |
| C56 | .004 | 400 | C-8D-17958 | P688-004 | D6-402 | PTE6D4 | | 6TM-D4 | S. IF Decoupling |
| C57 | 5000 | | A-8G-13962 | BPD-005 | DD-502 | ID5D5 | 811-005 | 29C1 | S. IF Cathode |
| C58 | 470 | 500 | C-8F3-121 | 1468-00005 | D6-471 | 5W5T5 | GP2K-470 | 1FM-35 | Diode Load Cap * |
| C59 | 2000 | | C-8G-16049 | SI2000 | D6-202 | 1W5D2 | GP2M-002 | 29C2 | De-emphasis Note 4. |

MODELS 2D1095, 2D2052
TRUETONE

PARTS LIST AND DES

RESISTORS

CAPACITORS (CONT.)

| ITEM No. | RATING | | REPLACEMENT DATA | | | | | | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|--------|------|-------------------|------------------|--------------------|---------------------------|---------------|------------------|---|
| | CAP. | VOLT | TRUETONE PART No. | AEROVOX PART No. | CENTRALAB PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | SPRAGUE PART No. | |
| C60 | 5000 | | A-8G-13962 | BPD-005 | DD-502 | IDS5 | 811-005 | 29C1 | RF Bypass |
| C61 | 4.7 | | | S14.7NPO | TCZ-4.7 | 5R575 | NPOK-4.7 | MS-55 | Balancing |
| C62 | .01 | 200 | C-8D-17258 | P488-01 | D6-103 | PTE4S1 | 821-01 | 4TM-S1 | Audio Coupling |
| C63 | .01 | 200 | C-8D-17258 | P488-01 | D6-103 | PTE4S1 | 821-01 | 4TM-S1 | Audio Coupling |
| C64 | .02 | 200 | C-8D-17268 | P488-02 | DF-203 | PTE4S2 | | 2TM-S2 | Tone Comp. |
| C65 | .01 | 400 | C-8D-17270 | P488-01 | D6-103 | PTE4S1 | 821-01 | 4TM-S1 | Audio Coupling |
| C66 | .002 | 600 | C-8D-10789 | P688-002 | D6-202 | PTE6D2 | GP2M-002 | 6TM-D2 | Output Plate Bypass Note 5. |
| C67 | 470 | 500 | C-8F3-121 | 1468-0005 | D6-471 | 5W575 | GP2K-470 | 1FM-35 | Sync. Coupling |
| C68 | .1 | 200 | C-8D-17259 | P288-1 | DF-104 | PTE4P1 | | 2TM-P1 | Sync. Coupling |
| C69 | .01 | 400 | C-8D-10761 | P488-01 | D6-103 | PTE4S1 | 821-01 | 4TM-S1 | Sync. Amp. Plate |
| C70 | .005 | 600 | C-8D-10935 | P688-005 | D6-502 | PTE6D5 | 811-005 | 6TM-D5 | Vert. Sync. Coupling |
| C71 | .02 | 400 | C-8D-10774 | P488-02 | DF-203 | PTE4S2 | | 4TM-S2 | Vert. Osc. Grid |
| C72 | .05 | 400 | C-8D-14461 | P488-05 | | PTE4S5 | | 4TM-S5 | Vert. Discharge |
| C73 | .25 | 400 | C-8D-13439 | P488-25 | | GT4P25 | | 4TM-P25 | Vert. Sweep Coupling |
| C74 | 470 | 500 | C-8F3-121 | 1468-0005 | D6-471 | 5W575 | GP2K-470 | 1FM-35 | Differentiator Nc |
| C75 | 470 | 500 | C-8F3-121 | 1468-0005 | D6-471 | 5W575 | GP2K-470 | 1FM-35 | Hor. Sync. Coupling † |
| C76 | 680 | 500 | C-8D-1323 | S1680 | D6-681 | 1W577 | GP2K-680 | 1FM-37 | Voltage Divider |
| C77 | 680 | 500 | C-8F3-123 | S1680 | D6-681 | 1W577 | GP2K-680 | 1FM-37 | Voltage Divider |
| C78 | 220 | 500 | C-8F3-117 | S1220 | D6-221 | 5W575 | GP2K-220 | 1FM-325 | Hor. Feedback |
| C79 | 220 | 500 | C-8F3-117 | S1220 | D6-221 | 5W575 | GP2K-220 | 1FM-325 | Hor. Feedback |
| C80 | .02 | 200 | C-8D-17268 | P488-02 | DF-203 | PTE4S2 | | 2TM-S2 | AFC Filter |
| C81 | .002 | 600 | C-8D-10778 | P688-002 | D6-202 | PTE6D2 | GP2M-002 | 6TM-D2 | AFC Filter |
| C82 | 220 | 500 | C-8F3-117 | 1468-00025 | D6-221 | 5W575 | GP2K-220 | 1FM-325 | Hor. MV Feedback |
| C83 | 3900 | 500 | C-8F11-132 | 1464-004 | | IDR5D4 | | MS-24 | Fixed Trimmer |
| C84 | 330 | 500 | | 1469-00035 | D6-331 | 5R574 | GP2K-330 | MS-34 | Hor. Discharge † |
| C85 | .001 | 600 | C-8D-12020 | P688-001 | D6-102 | PTE6D1 | GP2L-001 | 6TM-D1 | Hor. Sweep Coupling |
| C86 | 47 | 400 | C-8G-12198 | S147 | D6-470 | 5W5Q5 | GP1K-47 | 19C25 | Hor. Feedback Note 2. |
| C87 | .1 | 400 | C-8D-10983 | P488-1 | DF-104 | PTE4P1 | | 4TM-P1 | Hor. Output Screen |
| C88 | .05 | 200 | | P288-05 | | PTE4S5 | | 2TM-S5 | Damper Filter † Note 3 |
| C89 | 150 | | | | | | | | Fixed Trimmer † |
| C90 | 470 | 500 | C-8F3-121 | 1468-0005 | D6-471 | 5W575 | GP2K-470 | 1FM-35 | Voltage Divider |
| C91 | 1000 | 500 | C-8F6-125 | 1467-001 | D6-102 | 1W5D1 | GP2L-001 | 1FM-21 | RF Bypass |
| C92 | .1 | 400 | C8D-10760 | P488-1 | DF-104 | PTE4P1 | | 4TM-P1 | Pic. Tube Cath. † |
| C93 | .5 | 200 | C-8D-11270 | P288-5 | | GT2P5 | | 2TM-P5 | Hor. Sweep Coupling |
| C94 | .2 | 200 | C-8D-17257 | P488-22 | | GT4P2 | | 2TM-22 | Damper Filter † |

- * Some models use 560MMF in this application. Mfgs. part # C-8F3-122.
- † Not used in all models.
- ‡ Some models use 390 MMF in this application. Mfgs. part # C-8F3-120.
- § Some models use .1MFD in this application. Mfgs. part # C-8D-10771.
- ¶ Some models use 1000MMF in this application. Mfgs. part # C-8G-13201.
- Note 1. Some models used 68MMF in this application. Mfgs. part # C-8F3-111.
- Note 2. Some models used 10MMF in this application. Mfgs. part # C-8G-12199.
- Note 3. Some models used .08MMF in this application. Mfgs. part # C-8D-18963.
- Note 4. Some models used 470MMF in this application. Mfgs. part # C-8F3-12.
- Note 5. Some models used .01MFD in this application. Mfgs. part # C-8D-10761.

CONTROLS

| ITEM No. | RATING | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|------------|-------|-------------------|--------------|--------------------|--------------------|---|
| | RESISTANCE | WATTS | TRUETONE PART No. | IRC PART No. | CLAROSTAT PART No. | CENTRALAB PART No. | |
| R1A | 5000Ω | | A-10A-18441 | | RTV-218 | SBBT-617-S | Contrast control - panel |
| B | 1 meg | | | | | | Volume control and SW tap ⊕ 90KΩ - rear |
| R2A | 50KΩ | | A-10B-17764 | Q11-123 | AG-44-S | AN-31 | Brightness control |
| B | Shaft | | Not req. | Not req. | KSS-3 | AK-4 | Attach to R2A per instructions |
| R3A | 100KΩ | | A-10B-17275 | Q11-128 | AG-49-S | AN-40 | Vert. hold control |
| B | Shaft | | Not req. | Not req. | KSS-3 | AK-4 | Attach to R3A per instructions |
| R4A | 50K | | A-10B-17764 | Q11-123 | AG-44-S | AN-31 | Horizontal hold control |
| B | Shaft | | Not req. | Not req. | KSS-3 | AK-4 | Attach to R4A per instructions |
| R5A | 5000Ω | | A-10B-17766 | Q11-114 | AM-19-S | AN-10 | Vert. linearity control |
| B | Shaft | | Not req. | Not req. | FKS-1/4 | AK-1 | Attach to R5A per instructions |
| R6A | 750KΩ | | A-10B-18240 | | AG-61-S | AN-69 | Vert. size control |
| B | Shaft | | Not req. | Not req. | FKS-1/4 | AK-1 | Attach to R6A per instructions |

RESISTORS

| ITEM No. | RATING | | REPLACEMENT DATA | | IDENTIFICATION CODES |
|----------|------------|-------|-------------------|--------------|---|
| | RESISTANCE | WATTS | TRUETONE PART No. | IRC PART No. | |
| R7 | 470KΩ | | C-9B1-94 | BTS-470K | Antenna Isolator |
| R8 | 88Ω | | C-9B1-80 | BTS-680 | Antenna Coil Shunt |
| R9 | 10KΩ | | C-9B1-74 | | RF Amp. Grid |
| R10 | 88Ω | | C-9B1-48 | | RF Amp. Cathode |
| R11 | 1000Ω 20% | | C-9B1-13 | BTS-1000 | RF Amp. Decoup |
| R12 | 5600Ω | | C-9B1-71 | | RF Coil Shunt |
| R13 | 10KΩ | | C-9B1-74 | | Converter Grid |
| R14 | 220Ω | | C-9B1-54 | BTS-220 | Converter Cathode |
| R15 | 1000Ω | | C-9B1-13 | BTS-1000 | Converter Decoup |
| R16 | 10KΩ | | C-9B1-74 | | Osc. Grid |
| R17 | 5600Ω | | C-9B1-71 | | Osc. Plate |
| R18 | 10Ω | | C-9B1-38 | | Parasitic Supp |
| R19 | 10Ω | | C-9B1-38 | | Parasitic Supp |
| R20 | 1000Ω | | C-9B1-62 | BTS-1000 | AGC Network |
| R21 | 8200Ω | | C-9B1-73 | | 1st Video IF Amp. Grid |
| R22 | 82Ω | | C-9B1-49 | BTS-82 | 1st Video IF Amp. Cathode |
| R23 | 1000Ω 20% | | C-9B1-13 | BTS-1000 | 1st Video IF Amp. Decoup |
| R24 | 1000Ω 20% | | C-9B1-13 | BTS-1000 | AGC Network |
| R25 | 6800Ω 20% | | | | 2nd Video IF Amp. Grid - See Note 6 |
| R26 | 82Ω | | C-9B1-49 | BTS-82 | 2nd Video IF Amp. Cathode |
| R27 | 1000Ω 20% | | C-9B1-13 | BTS-1000 | 2nd Video IF Amp. Decoup |
| R28 | 1000Ω 20% | | C-9B1-13 | BTS-1000 | AGC Network |
| R29 | 6800Ω 20% | | | | 3rd Video IF Amp. Grid - See Note 7 |
| R30 | 82Ω | | C-9B1-49 | BTS-82 | 3rd Video IF Amp. Cathode |
| R31 | 1000Ω | | C-9B1-62 | BTS-1000 | 3rd Video IF Amp. Decoup |
| R32 | 6800Ω 20% | | | | 4th Video IF Transformer Shunt - See Note 6 |
| R33 | 120Ω | | C-9B1-51 | BTS-120 | 4th Video IF Amp. Cathode |
| R34 | 68KΩ | | | | 4th Video IF Amp. Screen |
| R35 | 5600Ω | | | | 4th Video IF Amp. Plate Decoup |
| R36 | 3900Ω | | C-9B1-89 | BTS-3900 | Video Det. Diode Load - See Note 7 |
| R37 | 2200Ω | | C-9B1-66 | BTS-2200 | AGC Network |
| R38 | 68KΩ | | C-9B1-84 | BTS-68K | AGC Network |
| R39 | 33KΩ | | C-9B1-80 | BTS-33K | AGC Network |

| ITEM No. | RATING | | REPLACEMENT DATA | | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|------------|-------|-------------------|--------------|---|
| | RESISTANCE | WATTS | TRUETONE PART No. | IRC PART No. | |
| R40 | 10KΩ | | C-9B1-74 | BTS-10K | |
| R41 | 2200Ω | | C-9B1-66 | BTS-2200 | |
| R42 | 1000Ω | | C-9B1-62 | BTS-1000 | |
| R43 | 43KΩ | | | | BTB-47K |
| R44 | 4700Ω | | C-9B1-70 | | BTB-4700 |
| R45 | 1000Ω | | C-9B14-1099 | | 1 3/4A-10K |
| R46 | 2.2Meg 5% | | | | 1 BTB-2.2Meg |
| R47 | 100Ω | | | | 1 BTS-100 |
| R48 | 47KΩ | | C-9B2-82 | | 1 BTA-47K |
| R49 | 4700Ω | | C-9B4-70 | | 1 BTB-4700 |
| R50 | 1200Ω | | C-9C14-1100 | | 1 3/4A-1200 |
| R51 | 22KΩ 20% | | C-9B1-78 | | 1 BTS-22K |
| R52 | 1Meg | | C-9B1-98 | | 1 BTS-1Meg |
| R53 | 100KΩ | | C-9B1-86 | | 1 BTS-100K |
| R54 | 1000Ω | | C-9B1-13 | | 1 BTS-1000 |
| R55 | 68KΩ | | C-9B1-84 | | 1 BTS-68K |
| R56 | 220KΩ 20% | | C-9B1-90 | | |
| R57 | 120Ω | | C-9B1-51 | | 1 BTS-120 |
| R58 | 2700Ω | | C-9B1-66 | | 1 BTS-2700 |
| R59 | 27KΩ | | C-9B1-79 | | 1 BTS-27K |
| R60 | 22KΩ | | C-9B1-78 | | 1 BTS-22K |
| R61 | 47KΩ | | C-9B1-82 | | 1 BTB-47K |
| R62 | 10Meg 20% | | C-9B1-37 | | 1 BTA-10Meg |
| R63 | 220KΩ | | C-9B1-90 | | 1 BTS-220K |
| R64 | 470KΩ | | C-9B1-94 | | 1 BTS-470K |
| R65 | 680Ω | | C-9B2-60 | | 1 BTA-680 |
| R66 | 2.2Meg 5% | | | | 1 BTA-2.2Meg |
| R67 | 47KΩ | | C-9B2-82 | | 1 BTA-47K |
| R68 | 4.7Meg | | C-9B1-106 | | 1 BTS-4.7M |
| R69 | 68KΩ | | C-9B4-74 | | 1 BTB-68K |
| R70 | 8200Ω | | C-9B1-73 | | 1 BTS-8200 |
| R71 | 56KΩ | | C-9B1-83 | | 1 BTS-56K |
| R72 | 1.5Meg | | C-9B1-100 | | 1 BTS-1.5M |
| R73 | 220KΩ 5% | | | | 1 BTS-220K |
| R74 | 3900Ω | | C-9B1-69 | | 1 BTS-3900 |
| R75 | 1Meg | | C-9B1-98 | | 1 BTS-1Meg |
| R76 | 1000Ω | | C-9B1-13 | | 1 BTS-1000 |
| R77 | 47KΩ | | C-9B1-82 | | 1 BTS-47K |
| R78 | 470KΩ | | C-9B1-94 | | 1 BTS-470K |
| R79 | 220KΩ | | C-9B1-90 | | 1 BTS-220K |
| R80 | 150KΩ | | C-9B1-88 | | 1 BTS-150K |
| R81 | 150KΩ | | C-9B1-88 | | 1 BTS-150K |
| R82 | 2.2Meg 5% | | | | 1 BTS-2.2Meg |
| R83 | 2.2Meg 5% | | | | 1 BTS-2.2Meg |
| R84 | 68KΩ | | C-9B1-84 | | 1 BTS-68K |
| R85 | 1500Ω | | C-9B1-64 | | 1 BTS-1500 |
| R86 | 100KΩ | | C-9B1-86 | | 1 BTS-100K |
| R87 | 5600Ω | | C-9B2-71 | | 1 BTA-5600 |
| R88 | 240KΩ 5% | | C-9B1-54 | | |
| R89 | 220Ω | | | | |
| R90 | 470KΩ | | C-9B1-94 | | 1 BTS-470K |
| R91 | 4700Ω | | C-9B4-70 | | 1 BTB-4700 |
| R92 | 470KΩ | | C-9B1-94 | | 1 BTS-470K |
| R93 | 240KΩ 5% | | | | |
| R94 | 100Ω | | C-9B1-38 | | 1 BW-100 |
| R95 | 2700Ω | | C-9C12-1104 | | 1 3/4A-2500 |
| R96 | 470KΩ | | C-9B1-94 | | 1 BTS-470K |
| R97 | 47KΩ | | C-9B1-82 | | 1 BTS-47K |
| R98 | 2.2Meg | | C-9B1-102 | | 1 BTS-2.2M |
| R99 | 1500Ω | | C-9B1-64 | | 1 BTS-1500 |
| R100 | 5600Ω | | C-9B2-71 | | 1 BTA-5600 |
| R101 | 10KΩ | | C-9B4-74 | | 1 BTB-10K |
| R102 | 5600Ω | | C-9B4-74 | | 1 BTB-5600 |
| R103 | 2.2Ω | | C-9C1-1067 | | |
| R104 | 18KΩ | | C-9B1-77 | | 1 BTS-18K |

- Note 1. Some models use 47KΩ resistor in this application.
- Note 2. Some models use 470KΩ resistor in this application.
- Note 3. Some models use parallel resistors in this application.
- Note 4. Some models use 220KΩ resistor in this application.
- Note 5. Not used in all models.
- Note 6. Some models use 4700Ω resistor in this application.
- Note 7. Some models use 8200Ω resistor in this application.
- Note 8. Some models use 6800Ω resistor in this application.
- Note 9. Some models use 3300Ω 1 watt resistor in this application.
- Note 10. Some models use 47KΩ or 22KΩ resistor in this application.
- Note 11. Some models use 5600Ω resistor in this application.
- Note 12. Some models use 680KΩ resistor in this application.
- Note 13.

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS (CONT.)

| SPRAGUE PART No. | IDENTIFICATION CODES AND INSTALLATION NOTES |
|------------------|---|
| 9C1 | RF Bypass |
| MS-55 | Balancing |
| TM-S1 | Audio Coupling |
| TM-S1 | Audio Coupling |
| TM-S2 | Tone Comp. |
| TM-S1 | Audio Coupling |
| TM-D2 | Output Plate Bypass Note 5. |
| FM-35 | Sync. Coupling |
| TM-P1 | Sync. Coupling |
| TM-S1 | Sync. Amp. Plate |
| TM-D5 | Vert. Sync. Coupling |
| TM-S2 | Vert. Osc. Grid |
| TM-S5 | Vert. Discharge |
| TM-P25 | Vert. Sweep Coupling |
| FM-35 | Differentiator Net |
| FM-35 | Hor. Sync. Coupling † |
| IFM-37 | Voltage Divider |
| IFM-37 | Voltage Divider |
| IFM-325 | Hor. Feedback |
| IFM-325 | Hor. Feedback |
| IFM-325 | AFC Filter |
| IFM-325 | AFC Filter |
| IFM-D2 | Hor. MV Feedback |
| MS-24 | Fixed Trimmer |
| MS-34 | Hor. Discharge † |
| IFM-D1 | Hor. Sweep Coupling |
| 9C25 | Hor. Feedback Note 2. |
| IFM-P1 | Hor. Output Screen |
| IFM-S5 | Damper Filter † Note 3 |
| IFM-35 | Fixed Trimmer † |
| FM-21 | Voltage Divider |
| IFM-P1 | RF Bypass |
| IFM-P5 | Pic. Tube Cath. † |
| IFM-P5 | Hor. Sweep Coupling |
| IFM-22 | Damper Filter † |

| INSTALLATION NOTES | |
|--------------------|--------------------------------------|
| 1 | Fast control - panel |
| 2 | Panel control and SW tap 90KΩ - rear |
| 3 | Panel control |
| 4 | Refer to R2A per instructions |
| 5 | Panel hold control |
| 6 | Refer to R3A per instructions |
| 7 | Panel hold control |
| 8 | Refer to R4A per instructions |
| 9 | Panel linearity control |
| 10 | Refer to R5A per instructions |
| 11 | Panel size control |
| 12 | Refer to R6A per instructions |

| IDENTIFICATION CODES | |
|----------------------|-------------------------|
| 1 | UNLESS OTHERWISE STATED |

Note 6

Note 7

See Note 6

Note 7

| ITEM No. | RATING | | REPLACEMENT DATA | | IDENTIFICATION CODES |
|----------|-----------|------|------------------|---------------|---|
| | | | TRUETONE | IRC | |
| | PRI. | SEC. | PART No. | PART No. | |
| R40 | 10KΩ | | C-9B1-74 | BTS-10K | AGC Keying Grid |
| R41 | 2200Ω | | C-9B1-66 | BTS-2200 | 1st Video Amp. Plate - See Note 6 and 8 |
| R42 | 1000Ω | | C-9B1-62 | BTS-1000 | 1st Video Amp. Plate - See Note 9 and 14 |
| R43 | 43KΩ | 2 | | BTB-47K | Voltage Divider - See Note 10 |
| R44 | 4700Ω | 2 | C-9B1-70 | BTB-4700 | Voltage Divider - See Note 11 and 15 |
| R45 | 1000Ω | 10 | C-9B14-1099 | 1 3/4A-1000 | Voltage Divider - Wire Wound |
| R46 | 2.2Meg 5% | 1 | | BTA-2.2Meg-5% | 2nd Video Amp. Grid |
| R47 | 100Ω | | | BTS-100 | 2nd Video Amp. Cathode |
| R48 | 47KΩ | 1 | C-9B2-82 | BTA-47K | Video Peaking Coil Shunt |
| R49 | 4700Ω | 2 | C-9B4-70 | BTB-4700 | 2nd Video Amp. Plate |
| R50 | 1200Ω | 10 | C-9C14-1100 | 1 3/4A-1200 | Voltage Divider - Wire Wound |
| R51 | 22KΩ | 20% | C-9B1-78 | BTS-22K | Picture Tube Grid |
| R52 | 1Meg | | C-9B1-98 | BTS-1Meg | DC Restorer Diode Load |
| R53 | 100KΩ | | C-9B1-86 | BTS-100K | Picture Tube Cathode |
| R54 | 1000Ω | | C-9B1-13 | BTS-1000 | Acc. Anode Load |
| R55 | 68KΩ | | C-9B1-84 | BTS-68K | Voltage Divider |
| R56 | 220KΩ | 20% | C-9B1-90 | | Sound IF Transformer Shunt |
| R57 | 120Ω | | C-9B1-51 | BTS-120 | Sound IF Amp. Cathode |
| R58 | 2700Ω | | C-9B1-66 | BTS-2700 | Sound IF Amp. Decoup |
| R59 | 27KΩ | | C-9B1-79 | BTS-27K | De-emphasis |
| R60 | 22KΩ | | C-9B1-78 | BTS-22K | Det. Diode Load |
| R61 | 47KΩ | | C-9B1-82 | BTS-47K | Tone Compensation |
| R62 | 10Meg 20% | 1 | C-9B1-37 | BTA-10Meg | AF Amp. Grid |
| R63 | 220KΩ | | C-9B1-90 | BTS-220K | AF Amp. Plate - See Note 2 |
| R64 | 470KΩ | | C-9B1-94 | BTS-470K | Output Grid |
| R65 | 68Ω | | C-9B2-60 | BTA-68Ω | Output Cathode |
| R66 | 2.2Meg 5% | 1 | | BTA-2.2Meg-5% | Sync. Amp. Grid |
| R67 | 47KΩ | | C-9B2-82 | BTA-47K | Sync. Amp. Plate |
| R68 | 4.7Meg | | C-9B1-106 | BTS-4.7Meg | Sync. Sep. Grid |
| R69 | 68KΩ | | C-9B4-84 | BTB-68K | Sync. Sep. Plate |
| R70 | 8200Ω | | C-9B1-73 | BTS-8200 | Sync. Plate |
| R71 | 56KΩ | | C-9B1-83 | BTS-56K | Integrator |
| R72 | 1.5Meg | | C-9B1-100 | BTS-1.5Meg | Vert. Osc. Grid |
| R73 | 220KΩ 5% | | C-9B1-69 | BTS-220K-5% | Vert. Osc. Plate |
| R74 | 3900Ω | | C-9B1-69 | BTS-3900 | Vert. Peaking |
| R75 | 1Meg | | C-9B1-98 | BTS-1Meg | Vert. Output Grid |
| R76 | 1000Ω | | C-9B1-13 | BTS-1000 | Vert. Output Cathode |
| R77 | 47KΩ | | C-9B1-82 | BTS-47K | Voltage Divider |
| R78 | 470KΩ | | C-9B1-94 | BTS-470K | Voltage Divider |
| R79 | 220KΩ | | C-9B1-90 | BTS-220K | Voltage Divider |
| R80 | 150KΩ | | C-9B1-88 | BTS-150K | Horiz. AFC Disc. Diode Load - See Note 3 |
| R81 | 150KΩ | | C-9B1-88 | BTS-150K | Horiz. AFC Disc. Diode Load - See Note 3 |
| R82 | 2.2Meg 5% | | | BTS-2.2Meg-5% | Horiz. AFC Disc. Diode Load |
| R83 | 2.2Meg 5% | | | BTS-2.2Meg-5% | Horiz. AFC Disc. Diode Load |
| R84 | 68KΩ | | C-9B1-84 | BTS-68K | Horiz. Peaking |
| R85 | 1500Ω | | C-9B1-64 | BTS-1500 | Horiz. MV Cathode |
| R86 | 100KΩ | | C-9B1-86 | BTS-100K | Horiz. MV Grid |
| R87 | 5600Ω | | C-9B2-71 | BTA-5600 | Horiz. MV Plate |
| R88 | 240KΩ 5% | | C-9B1-54 | | Parasitic Supp |
| R89 | 220Ω | | | | Horiz. Output Grid |
| R90 | 470KΩ | | C-9B1-94 | BTS-470K | Horiz. Output Screen - See Note 8 |
| R91 | 4700Ω | | C-9B4-70 | BTB-4700 | Horiz. Feedback - See Note 12 |
| R92 | 470KΩ | | C-9B1-94 | BTS-470K | Horiz. Feedback - See Note 4 and 13 |
| R93 | 240KΩ 5% | | | | Centering Network |
| R94 | 10Ω | | C-9B1-38 | BW-1/10 | Filter - Wire Wound - See Note 11 |
| R95 | 2700Ω | | C-9C12-1104 | 1 3/4A-2500 | Isolation |
| R96 | 470KΩ | | C-9B1-94 | BTS-470K | Differentiator - See Note 5. |
| R97 | 47KΩ | | C-9B1-82 | BTS-47K | Voltage Divider - See Note 5 |
| R98 | 2.2Meg | | C-9B1-102 | BTS-2.2Meg | Horiz. Discharge - See Note 5 |
| R99 | 1500Ω | | C-9B1-64 | BTS-1500 | Voltage Divider - See Note 5 |
| R100 | 5600Ω | | C-9B2-71 | BTA-5600 | Voltage Divider - See Note 5 |
| R101 | 10KΩ | | C-9B4-74 | BTB-10K | Voltage Divider - See Note 5 |
| R102 | 5600Ω | | C-9B4-71 | BTB-5600 | Voltage Divider - See Note 5 |
| R103 | 2.2Ω | | C-9C1-1087 | | HV Rectifier Filament - See Note 5 |
| R104 | 18KΩ | | C-9B1-77 | BTS-18K | 5th Video IF Transformer Shunt - See Note 5 |

- Note 1. Some models use 47KΩ resistor in this application.
- Note 2. Some models use 470KΩ resistor in this application.
- Note 3. Some models use parallel resistors in this application to obtain desired value.
- Note 4. Some models use 220KΩ resistor in this application.
- Note 5. Not used in all models.
- Note 6. Some models use 4700Ω resistor in this application.
- Note 7. Some models use 8200Ω resistor in this application.
- Note 8. Some models use 6800Ω resistor in this application.
- Note 9. Some models use 3300Ω 1 watt resistor in this application.
- Note 10. Some models use 47KΩ or 22KΩ resistor in this application.
- Note 11. Some models use 5600Ω resistor in this application.
- Note 12. Some models use 680KΩ resistor in this application.
- Note 13. Some models use 1Meg resistor in this application.
- Note 14. Some models use 1500 1 watt resistor in this application.
- Note 15. Some models use 22KΩ resistor in this application.

TRANSFORMER (POWER)

| ITEM No. | RATING | | | | REPLACEMENT DATA | | | |
|----------|--------------|-------------------|------------|--------------|------------------|------------------------|------------------------|-----------------------|
| | PRI. | SEC. 1 | SEC. 2 | SEC. 3 | TRUETONE | STANCO | MERIT | CHICAGO |
| | | | | | PART No. | PART No. | PART No. | PART No. |
| T1 | 117VAC 2A | 680VCT .250ADC | 5VAC 9A | 6.3VAC 9A | C-12A-18839 | P8159 ① And P5014 ② | P3059 ① And P2945 ② | TP395 ① And F633 ② |

- ① Add series resistor to reduce plate voltage.
- ② Mount beneath chassis.

| ITEM No. | RATING | | TRUE TONE PART |
|----------|---------------|-------------------|----------------|
| | DC RESISTANCE | | |
| | PRI. | SEC. | |
| T2 | 180Ω | 1000Ω | B-12M-18 |
| T3 | 650Ω | SEC. 1 | C-201-18 |
| | 49Ω | 14Ω Tap ③ .3Ω | |
| | | SEC. 2. | |
| | | 11Ω Tap ④ 5.5Ω | |
| | | SEC. 3. | |
| | | 0Ω | |
| T4 | 730Ω | 9Ω | B-12C190 |
| T5A | 14Ω | | B-13M18 |
| B | 63Ω | | |

③ Drill one new mounting

| ITEM No. | RATING | |
|----------|-----------|----------|
| | IMPEDANCE | |
| | PRI. | SEC. |
| T6 | 8KΩ | 451Ω .8Ω |

| ITEM No. | RATINGS | | |
|-----------|---------|------------|--|
| | FIELD | V. C. IMP. | |
| | PM | 3.2Ω | |
| SP1A | PM | 3.2Ω | |
| B | PM | 3.2Ω | |
| CONE DIA. | | | |
| SP2A | 5 7/8" | 9/16" | |
| B | 9 3/4" | 3/4" | |

| ITEM No. | RATINGS | | |
|----------|----------------------|------------------|-----------|
| | TOTAL DIRECT CURRENT | D. C. RESISTANCE | INDUCTIVE |
| | | | (Ω) |
| L1 | .240A | 35Ω | 1.4 |
| L2 | .240A | 35Ω | 1.4 |

| ITEM No. | USE | DC RES. | |
|----------|--------------|---------|------|
| | | PRI. | SEC. |
| L3 | Antenna Coil | 0Ω | 0Ω |
| L4 | Antenna Coil | .1Ω | .1Ω |
| L5 | RF Choke | .9Ω | |
| L6 | RF Coil | | |
| L7 | Primary | .1Ω | |
| L7 | RF Coil | | |
| L8 | Secondary | .1Ω | |
| L8 | RF Coil | | |
| L9 | Primary | .1Ω | |
| L10 | Secondary | .1Ω | |
| L10 | Osc. Coil | .1Ω | |
| L11 | Osc. Coil | .1Ω | |
| L12 | Conv. Plate | | |
| L12 | Trap | 11Ω | |
| L13 | 1st Video IF | .3Ω | |
| L14 | Fil. Choke | .3Ω | |
| L15 | 2nd Video IF | .2Ω | |
| L16 | 3rd Video IF | .2Ω | |
| L17 | 4th Video IF | .2Ω | |
| L18 | Grid Choice | 2.3Ω | |
| L19 | 5th Video IF | .9Ω | |
| L20 | Fil. Choke | 1.2Ω | |
| L21 | Peaking | 11Ω | |
| L22A | 4.5MC Trap | 1.7Ω | |
| B | 4.5MC Trap | | |
| L23 | Peaking | 22Ω | |
| L24A | Peaking | 9Ω | |
| B | Peaking | | |
| C | Peaking | | |
| L25A | Peaking | 9Ω | |
| B | Peaking | | |
| C | Peaking | | |
| L26 | Peaking | | |
| L27 | Sound IF | 3.1Ω | |
| L28A | Ratio Det. | | |
| | Trans. | 4.3Ω | .2Ω |
| B | Ratio Det. | | |
| | Trans. | | |
| L29 | Horiz. Freq. | 80Ω | |
| L30A | Horiz. Lin. | 2Ω | 4Ω |
| B | Horiz. Lin. | | |
| C | Horiz. Lin. | | |
| L31 | Horiz. Size | .2Ω | |

DESCRIPTIONS (Continued)

(CONT.)

| IDENTIFICATION CODES | |
|---|--|
| AGC Keying Grid | |
| 1st Video Amp. Plate - See Note 6 and 8 | |
| 1st Video Amp. Plate - See Note 9 and 14 | |
| Voltage Divider - See Note 10 | |
| Voltage Divider - See Note 11 and 15 | |
| Voltage Divider - Wire Wound | |
| 2nd Video Amp. Grid | |
| 2nd Video Amp. Cathode | |
| Video Peaking Coil Shunt | |
| 2nd Video Amp. Plate | |
| Voltage Divider - See Note 11 and 15 | |
| Picture Tube Grid | |
| DC Restorer Diode Load | |
| Picture Tube Cathode | |
| Acc. Anode Load | |
| Voltage Divider | |
| Sound IF Transformer Shunt | |
| Sound IF Amp. Cathode | |
| Sound IF Amp. Decoupl | |
| De-emphasis | |
| Det. Diode Load | |
| Tone Compensation | |
| AF Amp. Grid | |
| AF Amp. Plate - See Note 2 | |
| Output Grid | |
| Output Cathode | |
| Sync. Amp. Grid | |
| Sync. Amp. Plate | |
| Sync. Sep. Grid | |
| Sync. Sep. Plate | |
| Voltage Divider | |
| Integrator | |
| Vert. Osc. Grid | |
| Vert. Osc. Plate | |
| Vert. Peaking | |
| Vert. Output Grid | |
| Vert. Output Cathode | |
| Voltage Divider | |
| Voltage Divider | |
| Voltage Divider | |
| Horiz. AFC Disc. Diode Load - See Note 3 | |
| Horiz. AFC Disc. Diode Load - See Note 3 | |
| Horiz. AFC Disc. Diode Load | |
| Horiz. AFC Disc. Diode Load | |
| Horiz. Peaking | |
| Horiz. MV Cathode | |
| Horiz. MV Grid | |
| Horiz. MV Plate | |
| Horiz. MV Plate - See Note 4 | |
| Parasitic Supp | |
| Horiz. Output Grid | |
| Horiz. Output Screen - See Note 8 | |
| Horiz. Feedback - See Note 12 | |
| Horiz. Feedback - See Note 4 and 13 | |
| Centering Network | |
| Filter - Wire Wound - See Note 11 | |
| Isolation | |
| Differentiator - See Note 5. | |
| Voltage Divider - See Note 5 | |
| Horiz. Discharge - See Note 5 | |
| Voltage Divider - See Note 5 | |
| Voltage Divider - See Note 5 | |
| Voltage Divider - See Note 5 | |
| HV Rectifier Filament - See Note 5 | |
| 5th Video IF Transformer Shunt - See Note 5 | |

tion to obtain desired value.

ication.

tion.

REPLACEMENT DATA

| STANCOR PART No. | MERIT PART No. | CHICAGO PART No. |
|---------------------|---------------------|--------------------|
| P8159 ① And P5014 ② | P3059 ① And P2945 ② | TP395 ① And F633 ② |

TRANSFORMER (SWEEP CIRCUITS)

| ITEM No. | RATING | | REPLACEMENT DATA | | | | NOTES |
|----------------|------------------------------|--|------------------------------|------------------|----------------|------------------|---|
| | DC RESISTANCE | | TRUE-TONE PART No. | STANCOR PART No. | MERIT PART No. | CHICAGO PART No. | |
| | PRI. | SEC. | | | | | |
| T2 T3 | 180Ω 650Ω tap ④ 49Ω | 1000Ω SEC. 1 14Ω Tap ④ .3Ω SEC. 2. 11Ω Tap ④ 5.5Ω SEC. 3. 0Ω | B-12M-18241-1 C-201-18843 | A-8111 ③ | A-3000 ③ | TBO-1 ③ | Vert. Block Osc. Trans. Horiz. Output Trans. |
| T4 T5A B | 730Ω 14Ω 63Ω | 9Ω | B-12C19048 B-13M18888 | A-8112 ③ DY-7 | A-3038 MD-1 | TSO-5 | Vert. Output Trans. Horiz. Deflection Coil Vert. Deflection Coil. |

③ Drill one new mounting hole.

TRANSFORMER (AUDIO OUTPUT)

| ITEM No. | RATING | | | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|-----------|------|---------|------|--------------------|------------------|----------------|------------------|-----------------------|
| | IMPEDANCE | | DC RES. | | TRUE-TONE PART No. | STANCOR PART No. | MERIT PART No. | CHICAGO PART No. | |
| | PRI. | SEC. | PRI. | SEC. | | | | | |
| T6 | 8KΩ | 3.2Ω | 451Ω | .8Ω | B12C-18743 | A-8114 ③ | A-2932 | CRO-13 ③ | ③ Drill one new hole. |

SPEAKER

| ITEM No. | RATINGS | | REPLACEMENT DATA | | | INSTALLATION NOTES |
|-----------|-----------|------------|--------------------|------------------------------|---------------------|--------------------|
| | FIELD | V. C. IMP. | TRUE-TONE PART No. | JENSEN PART No. | QUAM PART No. | |
| | SPIA B | PM PM | 3.2Ω 3.2Ω | C-18A-18745 C-18A-18865 * | ST-108 Mod. P6-X | |
| SP2A B | CONE DIA. | V. C. DIA. | | | | |
| | 5 7/8" | 9/16" | | | | |
| | 9 3/4" | 3/4" | | | | |

FILTER CHOKE

| ITEM No. | RATINGS | | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|----------------------|------------------|-------------------------------|--------------------|------------------|----------------|------------------|--------------------------------|
| | TOTAL DIRECT CURRENT | D. C. RESISTANCE | INDUCTANCE (0 CURRENT 1000 μ) | TRUE-TONE PART No. | STANCOR PART No. | MERIT PART No. | CHICAGO PART No. | |
| L1 | .240A | 35Ω | 1.4 Henries | B-16A-17959 | C-2326 | C-2974 | TR3300 | ① Drill one new mounting hole. |
| L2 | .240A | 35Ω | 1.4 Henries | B-16A-17959 | C-2326 ① | C-2974 | TR3300 ① | |

COILS (RF-IF)

| ITEM No. | USE | DC RES. | | REPLACEMENT DATA | | NOTES |
|----------|------------------|---------|--------------|--------------------|-------------------|----------------------------|
| | | PRI. | SEC. | TRUE-TONE PART No. | MEISSNER PART No. | |
| | | L3 | Antenna Coil | 0Ω | 0Ω | |
| L4 | Antenna Coil | .1Ω | .1Ω | | | |
| L5 | RF Choke | .9Ω | | A-16A-17128 | | |
| L6 | RF Coil | | | | | |
| | Primary | .1Ω | | B-13E-17140 | | High Band |
| L7 | RF Coil | | | | | |
| | Secondary | .1Ω | | B-13E-17140 | | High Band |
| L8R | RF Coil | | | | | |
| | Primary | .1Ω | | B-13E-12046 | | Low Band |
| L9 | RF Coil | | | | | |
| | Secondary | .1Ω | | B-13E-12046 | | Low Band |
| L10 | Osc. Coil | .1Ω | | B-13E-17140 | | High Band |
| L11 | Osc. Coil | .1Ω | | B-13D-12155 | | Low Band |
| L12 | Conv. Plate Trap | | | | | |
| | 1st Video IF | 11Ω | | A-16A-18025 | | |
| L13 | Fil. Choke | .3Ω | | A-13M-18073 | | |
| L14 | 2nd Video IF | .2Ω | | A-201-15609 | | |
| L15 | 3rd Video IF | .2Ω | | B-201-15612 | | |
| L16 | 4th Video IF | .2Ω | | B-201-15612 | | |
| L17 | Grid Choice | 2.3Ω | | A-201-15608 | | |
| L18 | 5th Video IF | .9Ω | .9Ω | B-13B-18784 | | |
| L19 | Fil. Choke | 1.2Ω | | A-16A-17937 | | |
| L20 | Peaking | 11Ω | | A-16A-17961 | | |
| L21 | 4.5MC Trap | 1.7Ω | | A-201-18746 | | Includes C50 Alternate |
| L22A | 4.5MC Trap | | | A-201-19363 | | |
| L23 | Peaking | 22Ω | | A-16A-19365 | 19-1923 | 410 Microhenries |
| L24A | Peaking | 9Ω | | A-16A-18685 | | |
| B | Peaking | | | A-16A-19486 | 19-1922 | 240 Microhenries Alternate |
| C | Peaking | | | A-16A-19366 | | Alternate |
| L25A | Peaking | 9Ω | | A-16A-18685 | | |
| B | Peaking | | | C-8G-1892 | 19-1923 | 380 Microhenries Alternate |
| C | Peaking | | | A-16A-19367 | | Alternate |
| L26 | Peaking | | | A-16A-17190 | | |
| L27 | Sound IF | 3.1Ω | | B-13A-18783 | | |
| L28A | Ratio Det. | | | | | |
| | Trans. | 4.3Ω | .2Ω | B-13M-17273 | | |
| B | Ratio Det. | | | | | |
| | Trans. | | | B-13M-19257 | | Alternate |
| L29 | Horiz. Freq. | 80Ω | | A-13D-16943 | | |
| L30A | Horiz. Lin. | 2Ω | 4Ω | A-13M-19320 | | |
| B | Horiz. Lin. | | | A-13M-18962 | | Alternate |
| C | Horiz. Lin. | | | A-13M-18961 | | Alternate |
| L31 | Horiz. Size | .2Ω | | A-13M-18233 | | |

MODELS 2D1095, 2D2052
TRUE-TONE

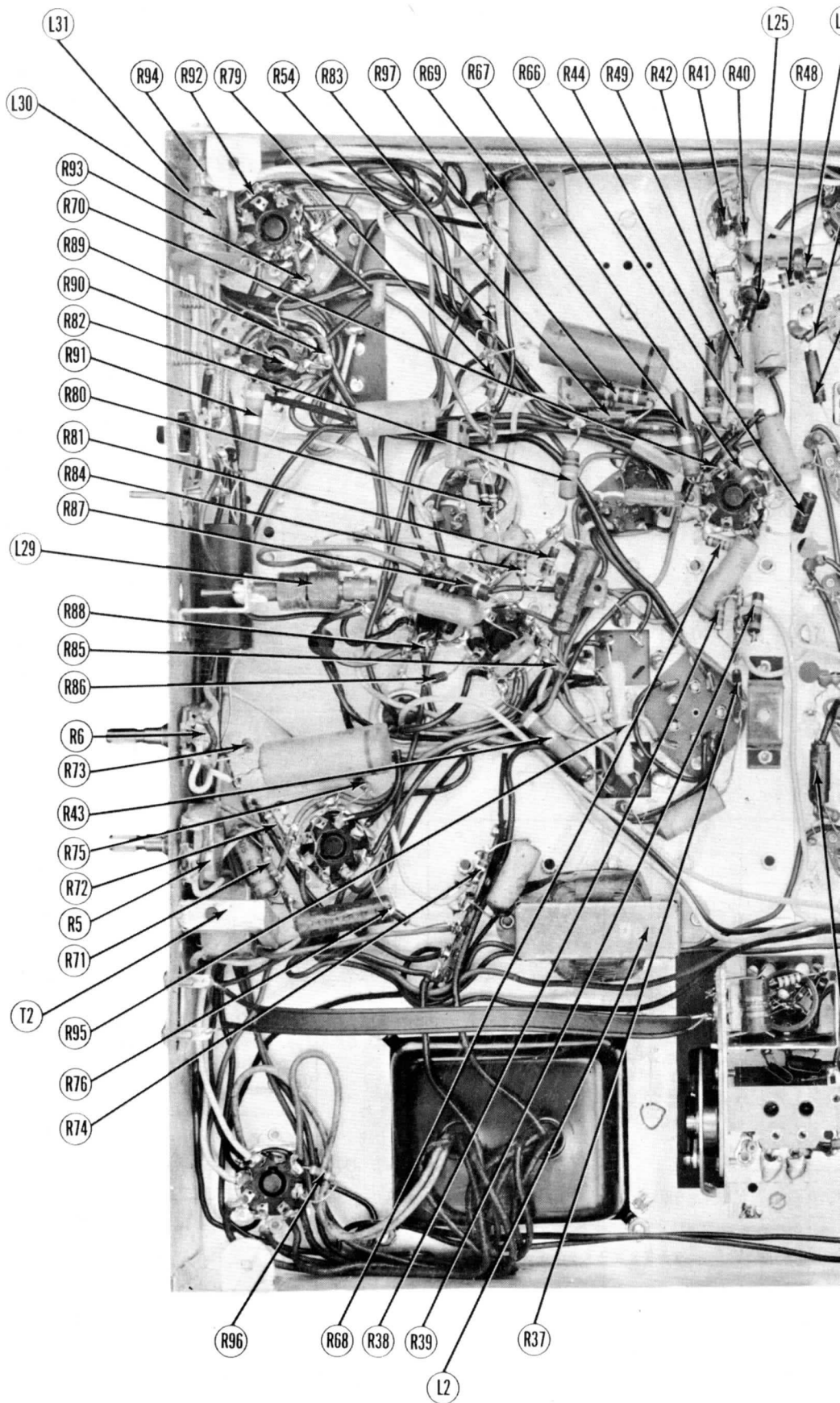
PARTS LIST AND DESCRIPTIONS (Continued)

FUSES

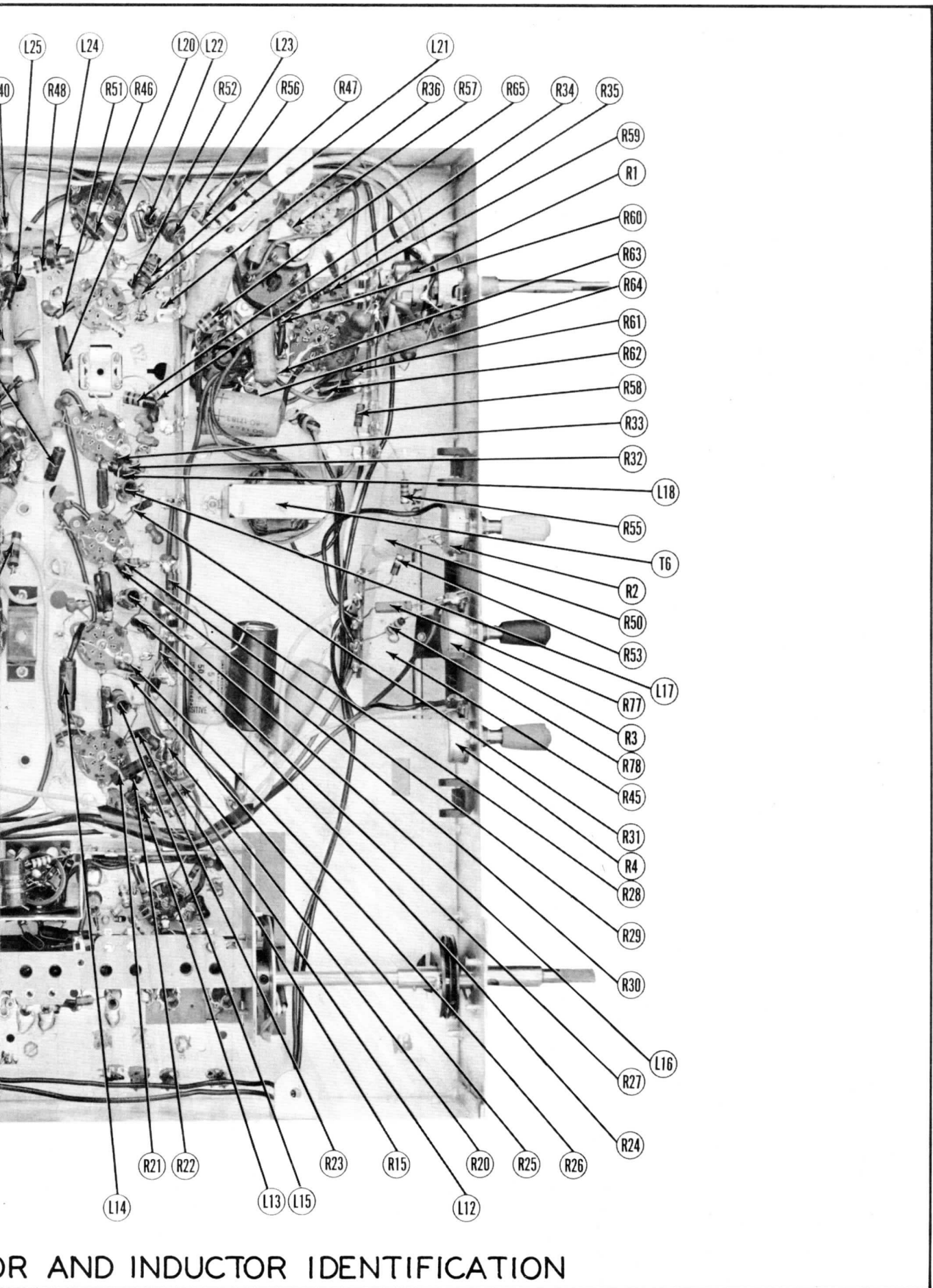
| ITEM No. | TYPE | RATING | REPLACEMENT DATA | | | | REMARKS |
|----------|------|--------|-------------------|-------------|---------------------|--------|---------|
| | | | TRUETONE PART No. | | LITTELFUSE PART No. | | |
| | | | FUSE | HOLDER | FUSE | HOLDER | |
| M2 | 3AG | .250A | A-46B-18362 | A-55F-18024 | 312.250 | | |

MISCELLANEOUS

| ITEM No. | PART NAME | TRUETONE PART No. | NOTES |
|----------|--------------|-------------------|--|
| M1 | RF Tuner | A-20F-12108 | Phono-On-Off Channel Selector Contrast Tuner Volume Contrast Rubber (White) Rubber (Red) Rubber (Blue) |
| M3 | Switch | B-55P-19815 | |
| M4 | Focus Magnet | B-16M-18623 | |
| M5 | Ion Trap | B-30M-18773 | |
| | Safety Glass | B-2M-18768 | |
| | Escutcheon | B-2M-17068 | |
| | Pointer | A-2G-18788 | |
| | Knob | B-5B-18781-76 | |
| | Knob | B-5B-17761-76 | |
| | Knob | B-5B-17762-76 | |
| | Knob | A-25M-18172 | |
| | Knob | A-25M-18177 | |
| | Knob | A-25M-18178 | |



CHASSIS BOTTOM VIEW-RESISTOR AN



RESISTOR AND INDUCTOR IDENTIFICATION