

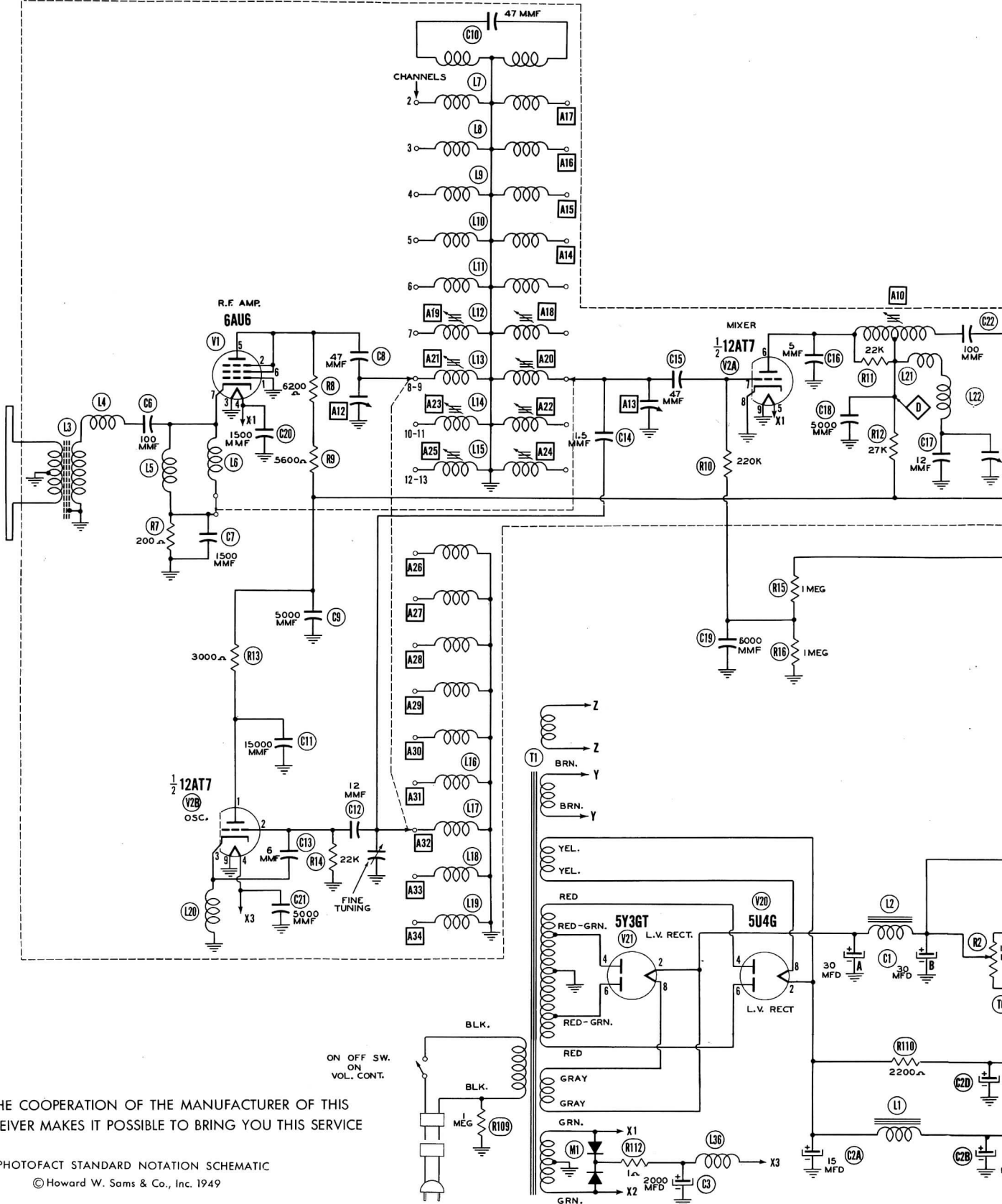
| | | |
|--------------|--|------------------------------|
| TRADE NAME | General Electric Model 811 | |
| MANUFACTURER | General Electric Co., Electronics Dept., Electronic Park, Syracuse, New York | |
| TYPE SET | Television Receiver | |
| TUBES | Twenty-Two | |
| POWER SUPPLY | 117 Volts, 60 Cycles AC | RATING: 2.1 Amps @ 117 Volts |
| TUNING RANGE | Channels 2 through 13 | |

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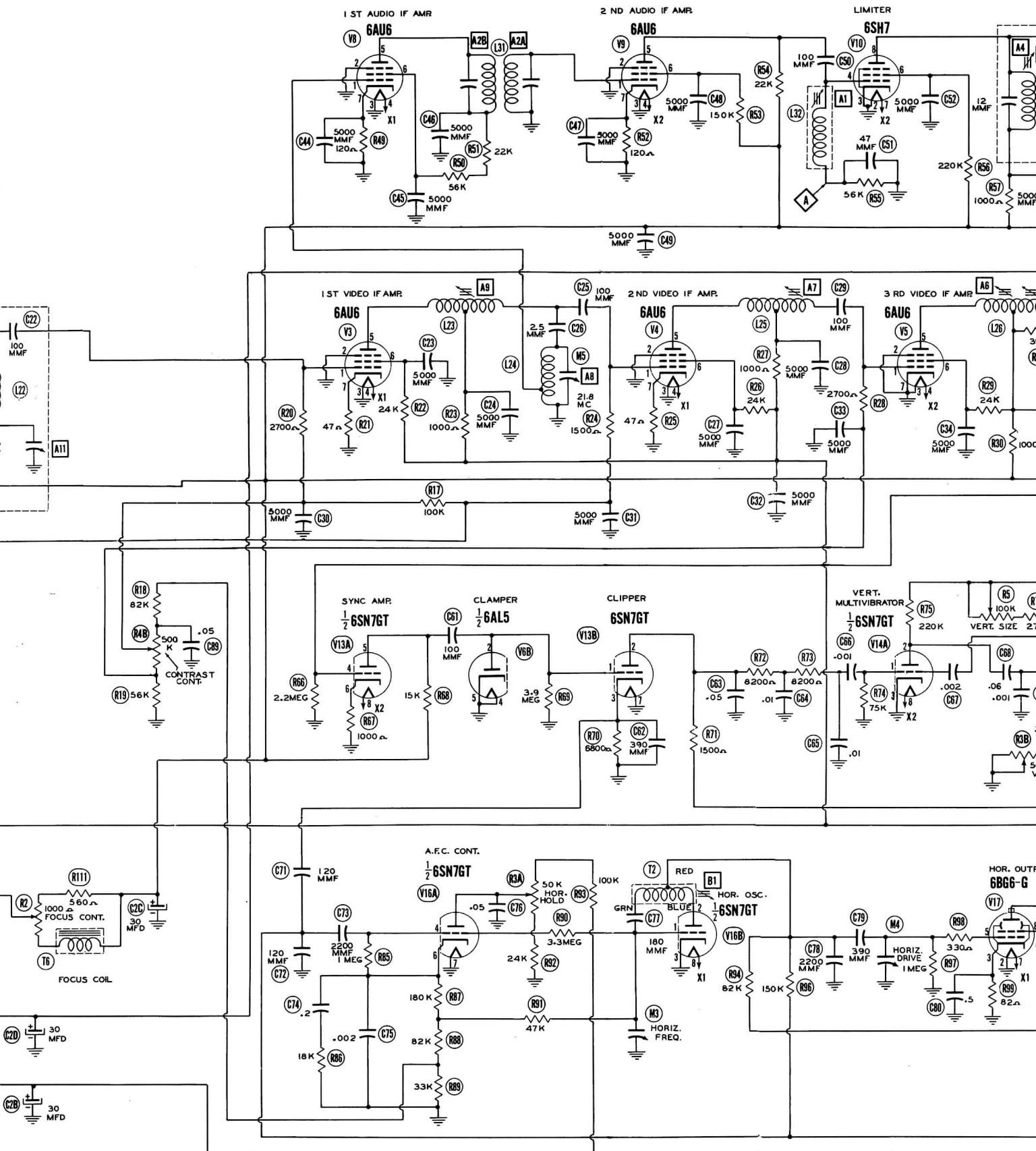
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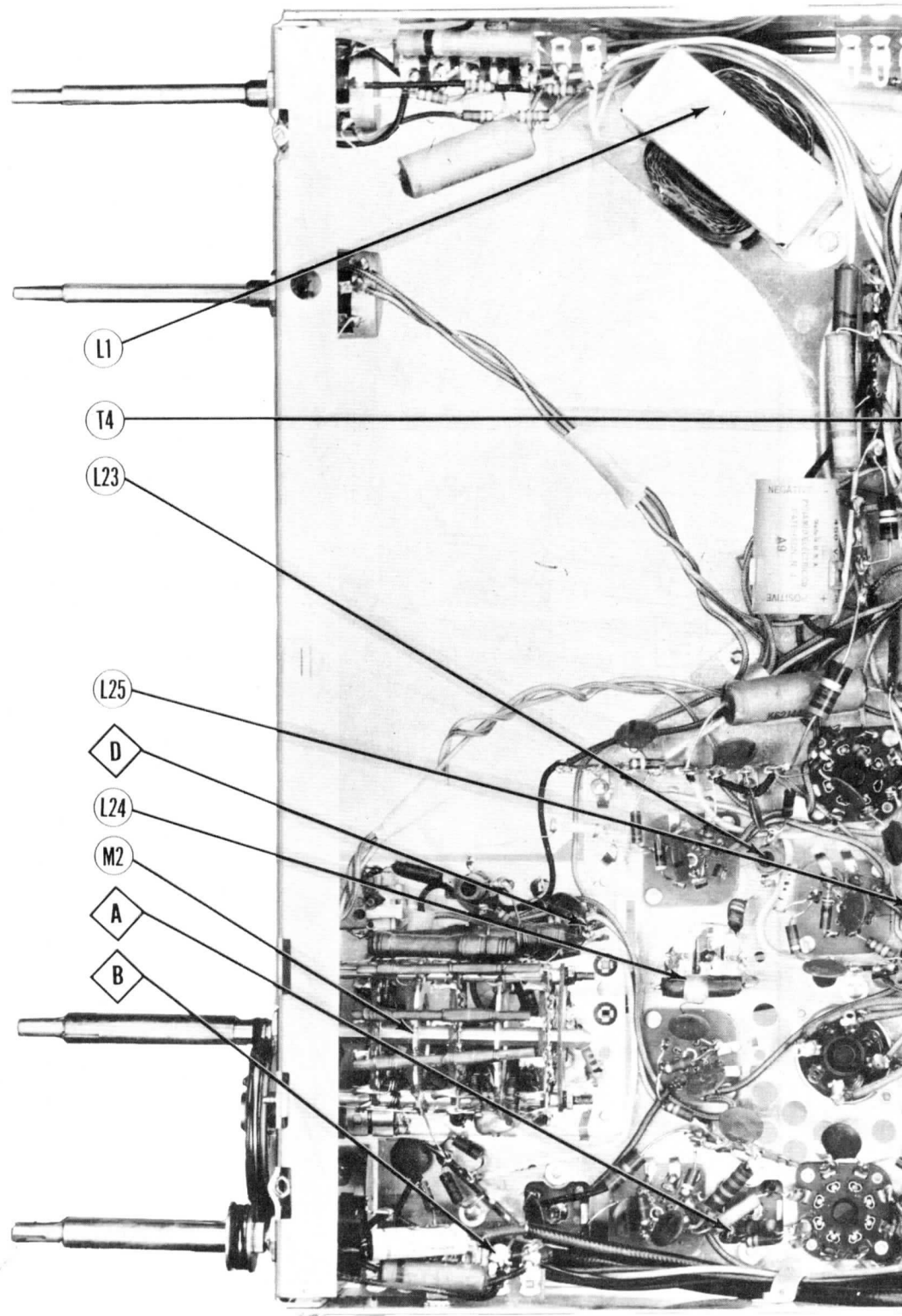
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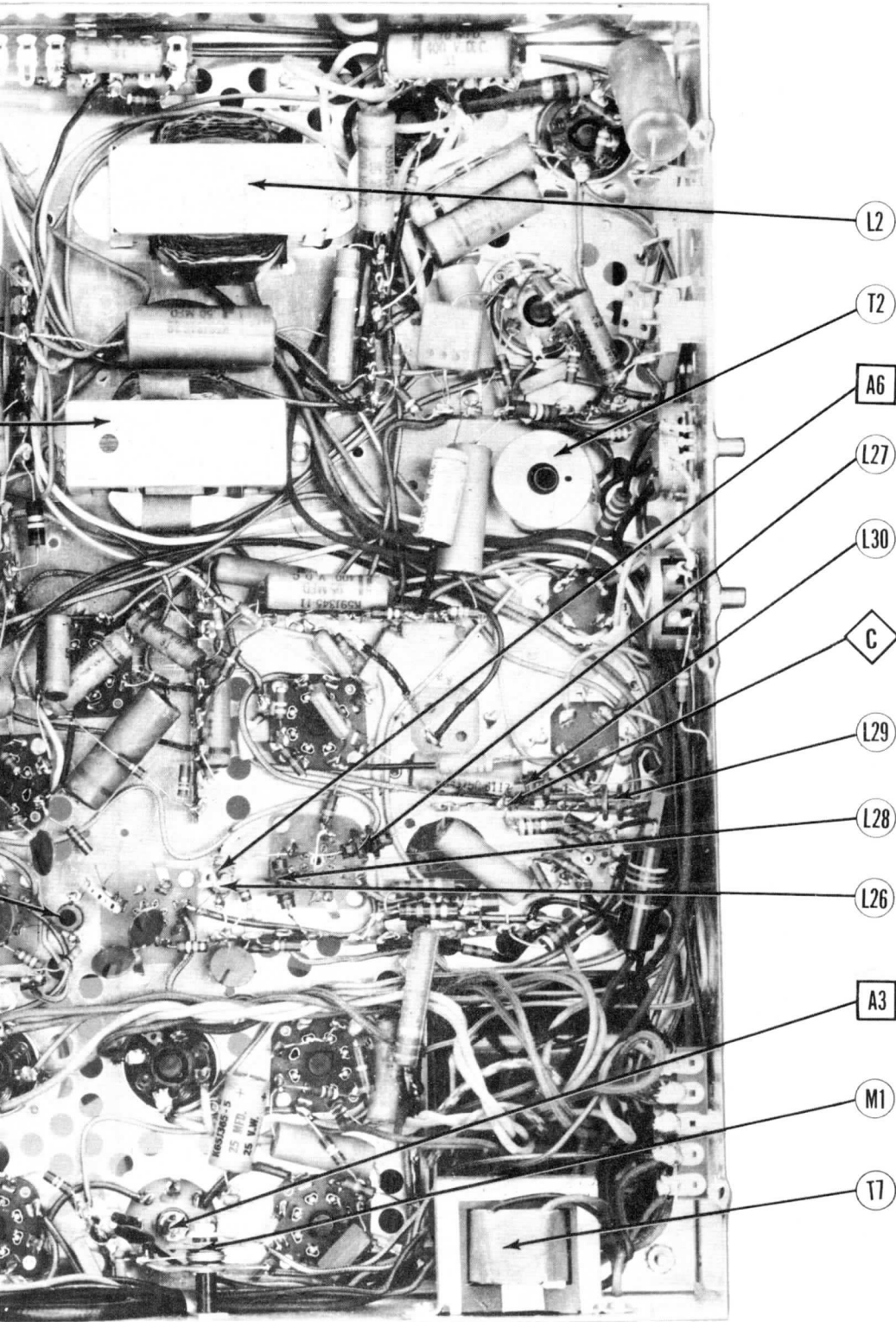
THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

A PHOTOFAC STANDARD NOTATION SCHEMATIC
 © Howard W. Sams & Co., Inc. 1949

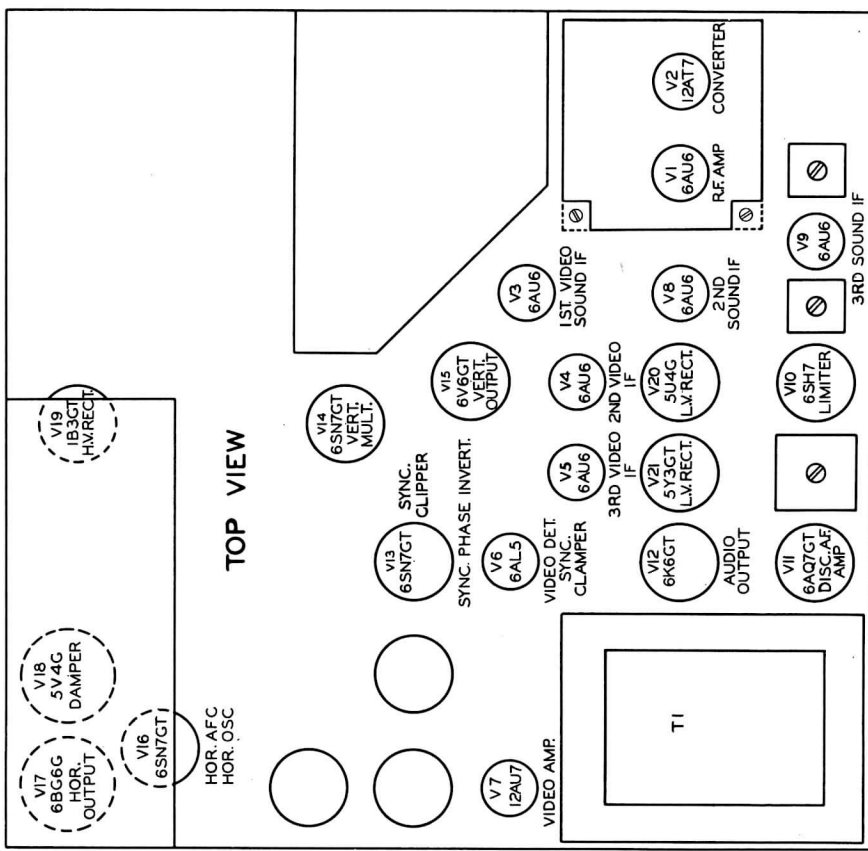
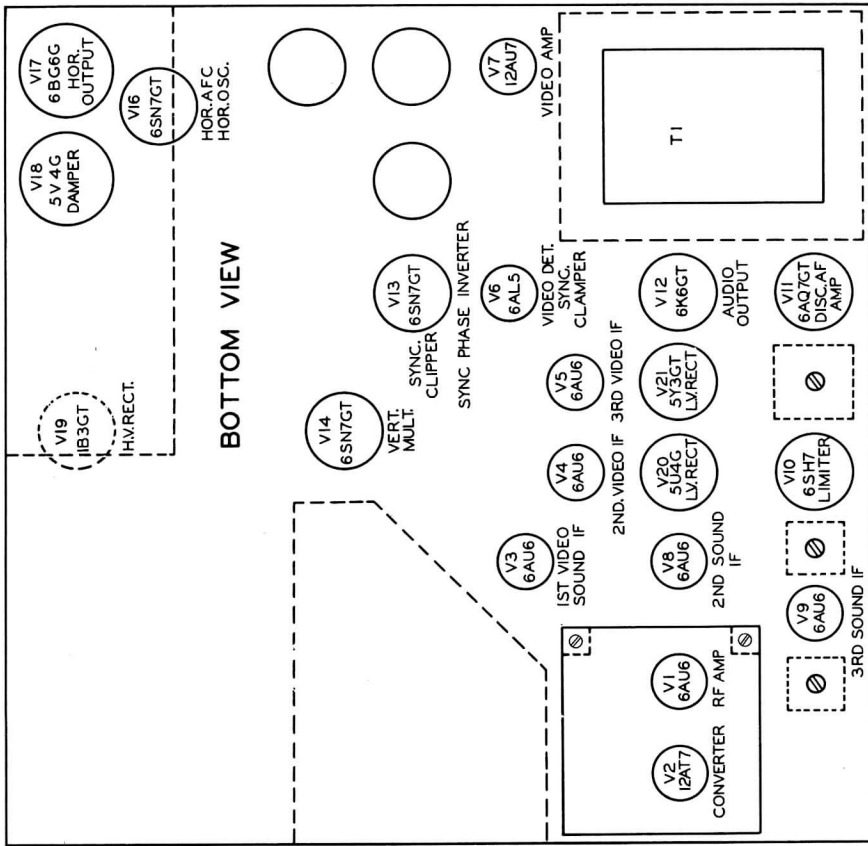




CHASSIS BOTTOM VIEW-TRANS.,INDUC



DUCTOR AND ALIGNMENT IDENTIFICATION



TUBE PLACEMENT CHART

GENERAL ELECTRIC
MODEL 811

ALIGNMENT INSTRUCTIONS

PRE-ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

SOUND IF ALIGNMENT

High voltage may be disabled during alignment by removing V14.
 Keep signal generator output low enough to give a 3/4 volt maximum peak reading.
 Contrast control should be set to give -4 volt bias reading.
 The signal generator lead should be terminated with a resistor equal to the impedance of the generator then connected with as short a lead as possible through a 500 MMF capacitor. Connect ground lead to chassis at the closest possible point.
 When aligning the Video IF, the tube preceding the one to which signal is applied should be removed. If this is not done, the previous coil will act as a trap and cause considerable change in the response pattern.
 If the response curve is peaked at the low frequency end and can not be connected by the slug, try changing the 6AU6 into which the signal is fed. Abnormally high plate capacity can cause this difficulty.
 Use insulated alignment tool for adjustments.

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---------------|-----------------------------|----------------------------|-----------------------------|---------|---|----------|--|
| 1 500 MMF. | Pin #1 (grid) of 6AU6 (V9). | 21.8MC 1MC sweep | 21.8MC | 4 | High side to Point \odot through 100K Ω resistor. Low side to chassis. | A1 | Adjust for maximum amplitude with marker at center of peak. See Fig. 1. |
| 2 500 MMF. | Pin #1 (grid) of 6AU6 (V8). | " | " | " | " | A2A, A2B | " |
| 3 500 MMF. | " | " | 21.8MC (400 \sim Mod.) | " | High side to Point \odot through 100K Ω resistor. Low side to chassis. | A3 | Adjust for symmetrical S curve. At proper frequency the modulation at the edges of the pattern will disappear. See Fig. 2. |
| 4 500 MMF. | " | " | " | " | " | A4 | Adjust for maximum amplitude and symmetry of S curve. Repeat Steps 3 and 4 for best results. |

VIDEO IF ALIGNMENT

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---------------|-----------------------------|----------------------------|---------------------------------------|---------|---|--------|---|
| 5 500 MMF. | Pin #1 (grid) of 6AU6 (V5). | 25MC 10MC sweep | 22.9MC 26.3MC | 4 | High side to Point \odot through 100K Ω resistor. Low side to chassis. | A5, A6 | Adjust for maximum amplitude with pattern as shown in Fig. 3. Remove V4 during this adjustment. |
| 6 500 MMF. | Pin #1 (grid) of 6AU6 (V4). | " | 22.9MC 25.55MC 26.3MC | " | " | A7 | Adjust for maximum amplitude with pattern as shown in Fig. 4. Remove V3 during this adjustment. |
| 7 500 MMF. | Pin #1 (grid) of 6AU6 (V3). | Not used | 21.8MC 400 \sim (Mod.) | " | " | A8 | Adjust for minimum amplitude. |
| 8 500 MMF. | " | 25MC 10MC sweep | 22.9MC 23.4MC 25.55MC 26.3MC | " | " | A9 | Remove V2 during this step. Adjust for maximum amplitude with pattern as shown in Fig. 5. |
| 9 500 MMF. | Pin #7 (grid) of 12AT7. | " | " | " | " | A10 | Turn A11 to minimum. Adjust for maximum amplitude with pattern as shown in Fig. 5. |
| 10 500 MMF. | " | " | " | " | " | A11 | Adjust for 26.3MC at half amplitude as shown in Fig. 6. |

RF ALIGNMENT

Terminate signal generator lead with a carbon resistor equal to generator impedance, then connect to antenna terminals through two equal resistances to make total equal approximately 300 ohms.
DO NOT ATTEMPT TO ALIGN THE RF SECTION UNLESS IT IS DEFINITELY KNOWN TO BE NECESSARY. Usually alignment will not be necessary unless a coil has been damaged or replaced. Since separate coils are used for each switch position it should be necessary to re-align only the defective channel. Adjustment of A12 and A13 may be necessary when tubes are replaced in the RF Tuner.
 Adjustments are made by changing the inductance of the individual coils. Coupling is fixed except for channels #2 and #3. Coupling on channel #2 may be varied by sliding the copper rings on the coil form. Coupling on channel #3 may be adjusted if necessary by moving turns at the insides of the coils. Frequency adjustment is made in each case by expanding or compressing the coils. The upper three switch positions each cover two channels and must be sufficiently broad. The fine tuning control should be at center position during oscillator alignment.

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|--------------------------|---------------------------|----------------------------|----------------------------|---------|---|----------|--|
| 11 Resistive (See above) | Antenna terminals. | 85MC 15MC sweep | 83.25MC 87.75MC | 6 | High side to Point \odot . Low side to chassis. Disconnect C18. | A12, A13 | Adjust for maximum amplitude and flat response. See Fig. 7. |
| 12 " | " | 79MC 15MC sweep | 77.25MC 81.75MC | 5 | " | A14 | " |
| 13 " | " | 69MC 15MC sweep | 67.25MC 71.75MC | 4 | " | A15 | " |
| 14 " | " | 63MC 15MC sweep | 61.25MC 65.75MC | 3 | " | A16 | " |
| 15 " | " | 57MC 15MC sweep | 55.25MC 59.75MC | 2 | " | A17 | Adjust for maximum. See Fig. 6. |
| 16 " | " | 177MC 15MC sweep | 175.25MC 179.75MC | 7 | " | A18, A19 | Adjust for maximum. See Fig. 7. Keep slugs approximately even. |
| 17 " | " | 186.5MC 25MC sweep | 181.25MC 191.75MC | 8-9 | " | A20, A21 | Adjust for maximum. See Fig. 9. |
| 18 " | " | 198.5MC 25MC sweep | 193.25MC 203.75MC | 10-11 | " | A22, A23 | " |
| 19 " | " | 210.5MC 25MC sweep | 205.25MC 215.75MC | 12-13 | " | A24, A25 | " |

OSCILLATOR ALIGNMENT

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | CHANNEL | ADJUST | REMARKS |
|---------------|---------------------------|----------------------------|---------|--------|--|
| 20 | Resistive (see above) | 59.75MC (Modulated) | 2 | A26 | Set volume control and tuning control at mid-position. Use sound output as indicator. Squeeze or spread turns to adjust. |
| 21 | " | 65.75MC (Modulated) | 3 | A27 | " |
| 22 | " | 71.75MC (Modulated) | 4 | A28 | " |
| 23 | " | 81.75MC (Modulated) | 5 | A29 | " |
| 24 | " | 87.75MC (Modulated) | 6 | A30 | " |
| 25 | " | 179.75MC (Modulated) | 7 | A31 | " |
| 26 | " | 188.75MC (Modulated) | 8-9 | A32 | " |
| 27 | " | 200.75MC (Modulated) | 10-11 | A33 | " |
| 28 | " | 212.75 (Modulated) | 12-13 | A34 | " |

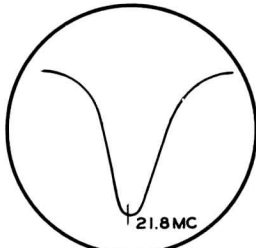


FIG. 1

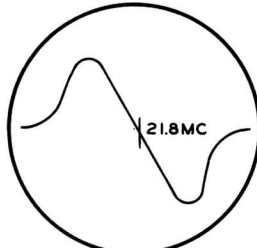


FIG. 2

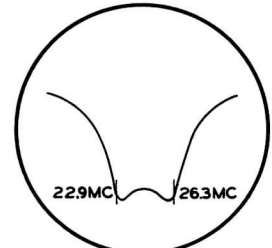


FIG. 3

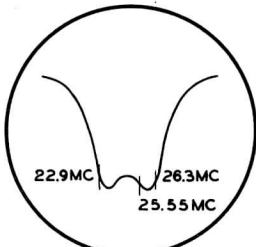


FIG. 4

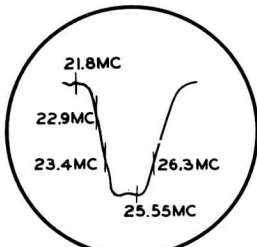


FIG. 5

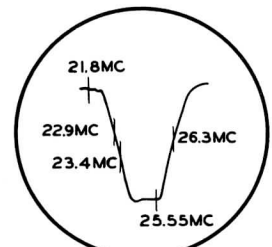


FIG. 6

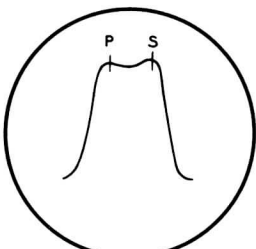


FIG. 7

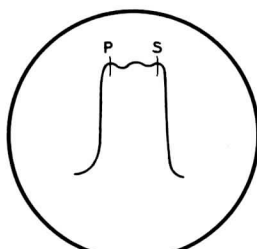


FIG. 8

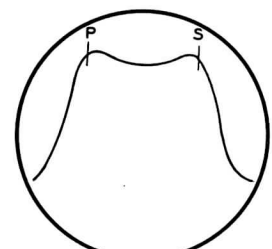


FIG. 9

HORIZONTAL FREQUENCY ADJUSTMENT

The horizontal frequency control is a coarse adjustment used to set the front panel horizontal hold control to obtain synchronization at approximately the center of its range. The core (B1) of the blocking oscillator transformer sets the natural frequency of the system.

Connect a VTVM to the junction of the contrast control and resistor R18. Tune in a television signal and adjust the front panel horizontal hold control to the center of its range. Alternately adjust the horizontal frequency control and slug B1 until synchronization is obtained with 12 volts indicated by the VTVM. The voltage must be within one volt of 12 volts at the correct adjustment.

The front panel horizontal hold control should cause the picture to fall out of synchronization at each end of its rotation.

GENERAL ELECTRIC MODEL 811

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 | 6AU6 | OV | 150VDC | OV | 6.3VAC | 150VDC | 150VDC | 1.8VDC | | |
| V 2 | 12AU7 | 250VDC | §-6.4VDC | OV | 6.8VDC | 160VDC | 6.3VAC | -6VDC | OV | OV |
| V 3 | 6AU6 | -3VDC | OV | OV | 6.3VAC | 300VDC | 300VDC | .1VDC | | |
| V 4 | 6AU6 | -6.8VDC | OV | OV | 6.3VAC | 300VDC | 300VDC | OV | | |
| V 5 | 6AU6 | -1.2VDC | OV | OV | 6.3VAC | 235VDC | 150VDC | OV | | |
| V 6 | 6AL5 | OV | -8VDC | 6.3VAC | OV | OV | OV | -3VDC | | |
| V 7 | 12AU7 | 50VDC | -6VDC | OV | OV | OV | 175VDC | OV | 2VDC | 6.3VAC |
| V 8 | 6AU6 | OV | OV | OV | 6.3VAC | 120VDC | 110VDC | 1VDC | | |
| V 9 | 6AU6 | OV | OV | OV | 6.3VAC | 170VDC | 70VDC | .6VDC | | |
| V 10 | 6SH7 | OV | OV | OV | -5VDC | OV | 50VDC | 6.3VAC | 250VDC | |
| V 11 | 6AQ7GT | OV | .7VDC | 3.4VDC | -5VDC | 95VDC | OV | 6.3VAC | OV | |
| V 12 | 6K6GT | OV | OV | 330VDC | 245VDC | OV | 18.5VDC | 6.3VAC | 18.5VDC | |
| V 13 | 6SN7GT | -8VDC | 145VDC | 250VDC | 5.5VDC | OV | 180VDC | 6VDC | OV | |
| V 14 | 6SN7GT | -4VDC | 28VDC | OV | -5.8VDC | 5.2VDC | 9.4VDC | OV | 6.3VAC | |
| V 15 | 6V6GT | OV | 6.3VAC | 280VDC | 145VDC | 5.2VDC | 145VDC | OV | 6.3VAC | |
| V 16 | 6SN7GT | -65VDC | 195VDC | OV | -40VDC | 45VDC | -35VDC | OV | 6.3VAC | TOP CAP |
| V 17 | 6EG6G | OV | OV | 9.5VDC | -3.4VDC | -3.4VDC | OV | 6.3VAC | 290VDC | † |
| V 18 | 5V4G | OV | 450VDC | OV | 360VDC | OV | 360VDC | OV | 450VDC | |
| V 19 | 1B5GT | † DO NOT MEASURE | | | | | | | | |
| V 20 | 5U4G | OV | 350VDC | OV | 350VAC | OV | 350VAC | OV | 390VDC | |
| V 21 | 5Y3GT | OV | 320VDC | OV | 310VAC | OV | 310VAC | OV | 320VDC | |
| V 22 | 10BP4 | *235VDC | 180VDC | 440VDC | 245VDC | PIN 12 *235VDC | | | | |

† Do not measure

* 6.3VAC measured between pins of socket.

‡ Measured from pin 2 of V21

† Measured from pin 8 of V20

‡ Measured from pin 8 of V18

§ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

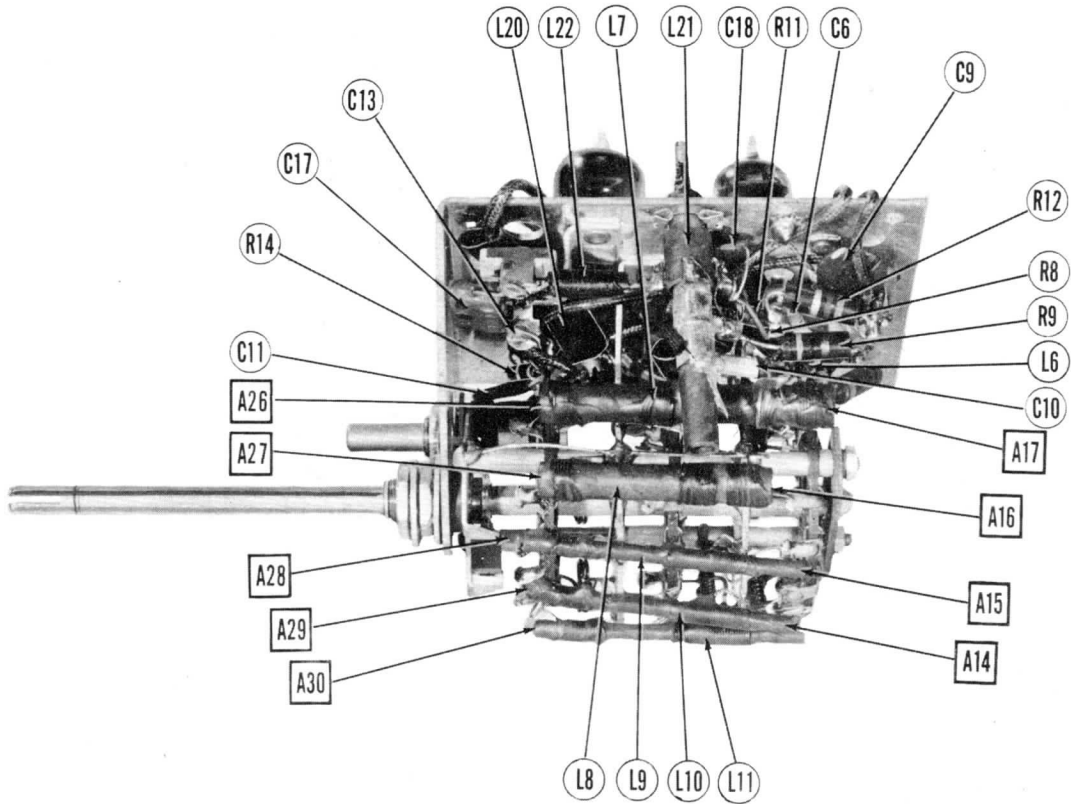
| Item | Tube | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 |
|------|--------|----------|----------|--------|----------|----------|---------|--------|--------|---------|
| V 1 | 6AU6 | OV | *12.5KΩ | OV | .2Ω | *12.5KΩ | *12.5KΩ | 200Ω | | |
| V 2 | 12AU7 | *5.5KΩ | 22KΩ | 1.2Ω | .2Ω | .2Ω | *28KΩ | 750KΩ | 0Ω | 0Ω |
| V 3 | 6AU6 | 100KΩ | OV | OV | .2Ω | *1200Ω | *24KΩ | 47Ω | | |
| V 4 | 6AU6 | 180KΩ | OV | OV | .2Ω | *1200Ω | *24KΩ | 47Ω | | |
| V 5 | 6AU6 | 56KΩ | OV | OV | .2Ω | *2KΩ | *26KΩ | 0Ω | | |
| V 6 | 6AL5 | OV | 3.9 Meg. | .2Ω | 0Ω | 0Ω | 0Ω | 5KΩ | | |
| V 7 | 12AU7 | 123KΩ | 1 Meg. | OV | 0Ω | 0Ω | *5KΩ | 1 Meg. | 120Ω | .2Ω |
| V 8 | 6AU6 | OV | OV | OV | .2Ω | *23KΩ | *60KΩ | 120Ω | | |
| V 9 | 6AU6 | .2Ω | OV | OV | .2Ω | *23KΩ | *150KΩ | 120Ω | | |
| V 10 | 6SH7 | OV | OV | OV | 56KΩ | 0Ω | *220KΩ | .2Ω | *1500Ω | |
| V 11 | 6AQ7GT | .2Ω | 120KΩ | 240KΩ | 10 Meg. | *220KΩ | 0Ω | .2Ω | 0Ω | |
| V 12 | 6K6GT | Inf. | OV | 12.8KΩ | *640Ω | 470KΩ | 750Ω | .2Ω | 750Ω | |
| V 13 | 6SN7GT | 3.9 Meg. | 120KΩ | 6.5KΩ | 2.2 Meg. | *15KΩ | 1000Ω | 0Ω | .2Ω | |
| V 14 | 6SN7GT | 75KΩ | 1220KΩ | OV | 140KΩ | 12.2Meg | 0Ω | 0Ω | .2Ω | |
| V 15 | 6V6GT | Inf. | .2Ω | *1800Ω | 128KΩ | 12.2Meg | 50KΩ | 0Ω | 1400Ω | |
| V 16 | 6SN7GT | 160KΩ | *82KΩ | OV | 1 Meg. | 142KΩ | 280KΩ | 0Ω | .2Ω | TOP CAP |
| V 17 | 6EG6G | Inf. | OV | 82Ω | 1 Meg. | 1 Meg. | Inf. | .2Ω | *14KΩ | *100Ω |
| V 18 | 5V4G | Inf. | *0Ω | Inf. | 1170Ω | Inf. | 1170Ω | Inf. | *0Ω | TOP CAP |
| V 19 | 1B5GT | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | Inf. | *470KΩ |
| V 20 | 5U4G | Inf. | 26KΩ | Inf. | 25Ω | Inf. | 24Ω | Inf. | 26KΩ | |
| V 21 | 5Y3GT | Inf. | 32KΩ | Inf. | 22Ω | Inf. | 20Ω | Inf. | 32KΩ | |
| V 22 | 10BP4 | 1.3 Meg. | *5KΩ | *100KΩ | *280KΩ | 1.3 Meg. | | | | |

* Measured from pin 2 of V21

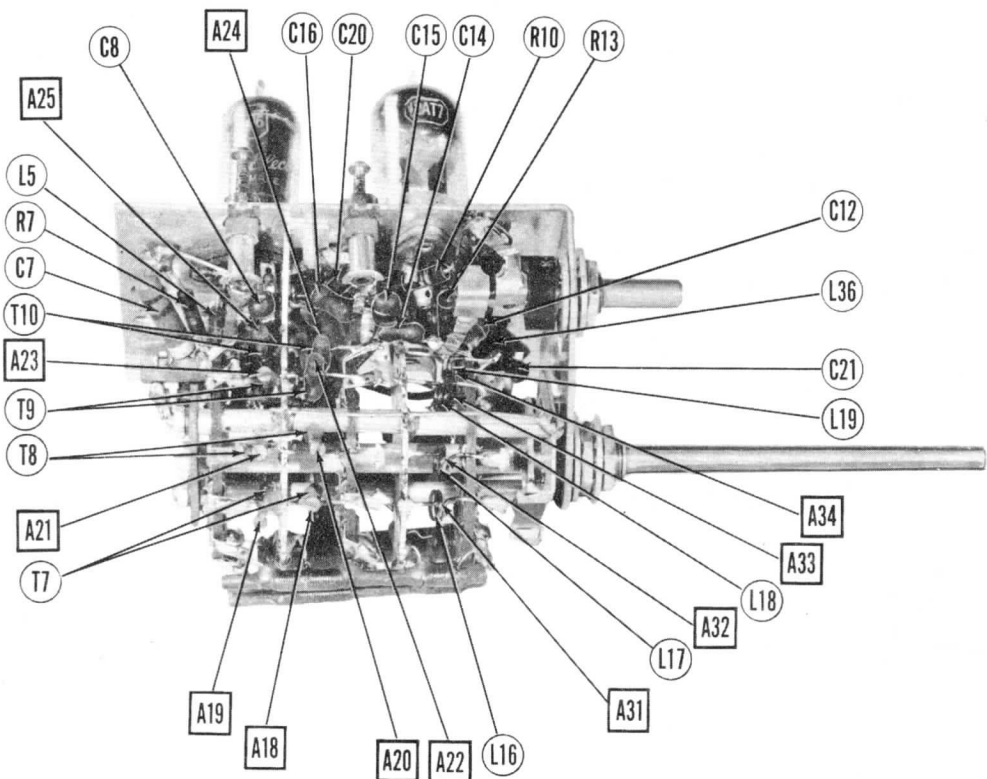
† Measured from pin 8 of V20

‡ Measured from pin 8 of V18

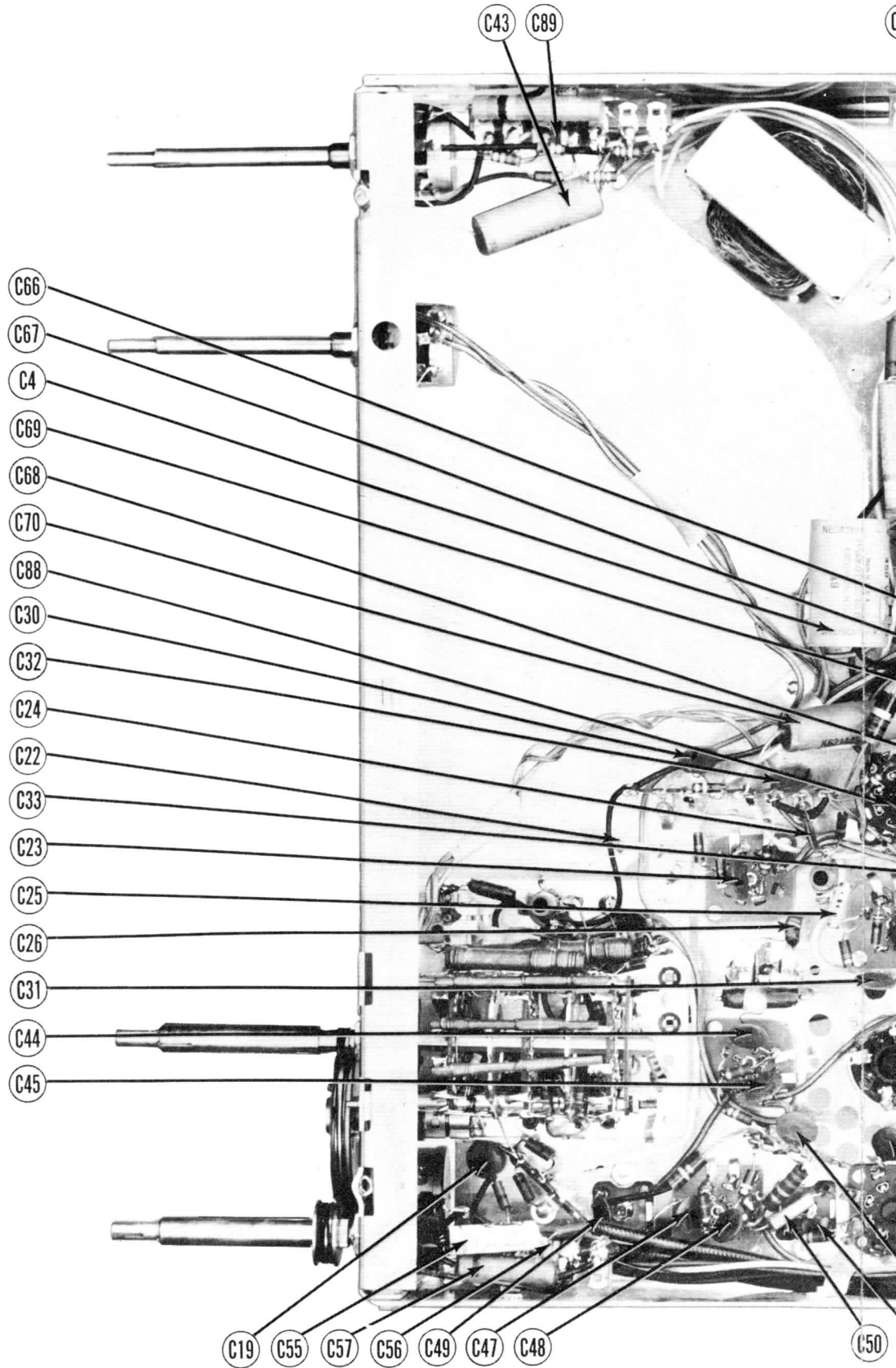
- DC Voltage measurements are at 20,000 ohms per volt; AC Voltage measured at 1,000 ohms.
- Pin numbers are counted in a clockwise direction on bottom of socket.
- Measured values are from socket pin to common negative unless otherwise stated.
- Line voltage maintained at 117 volts for voltage readings.
- Front panels controls set at minimum.
- Where readings may vary according to the setting of the service controls, both minimum and maximum readings are given.



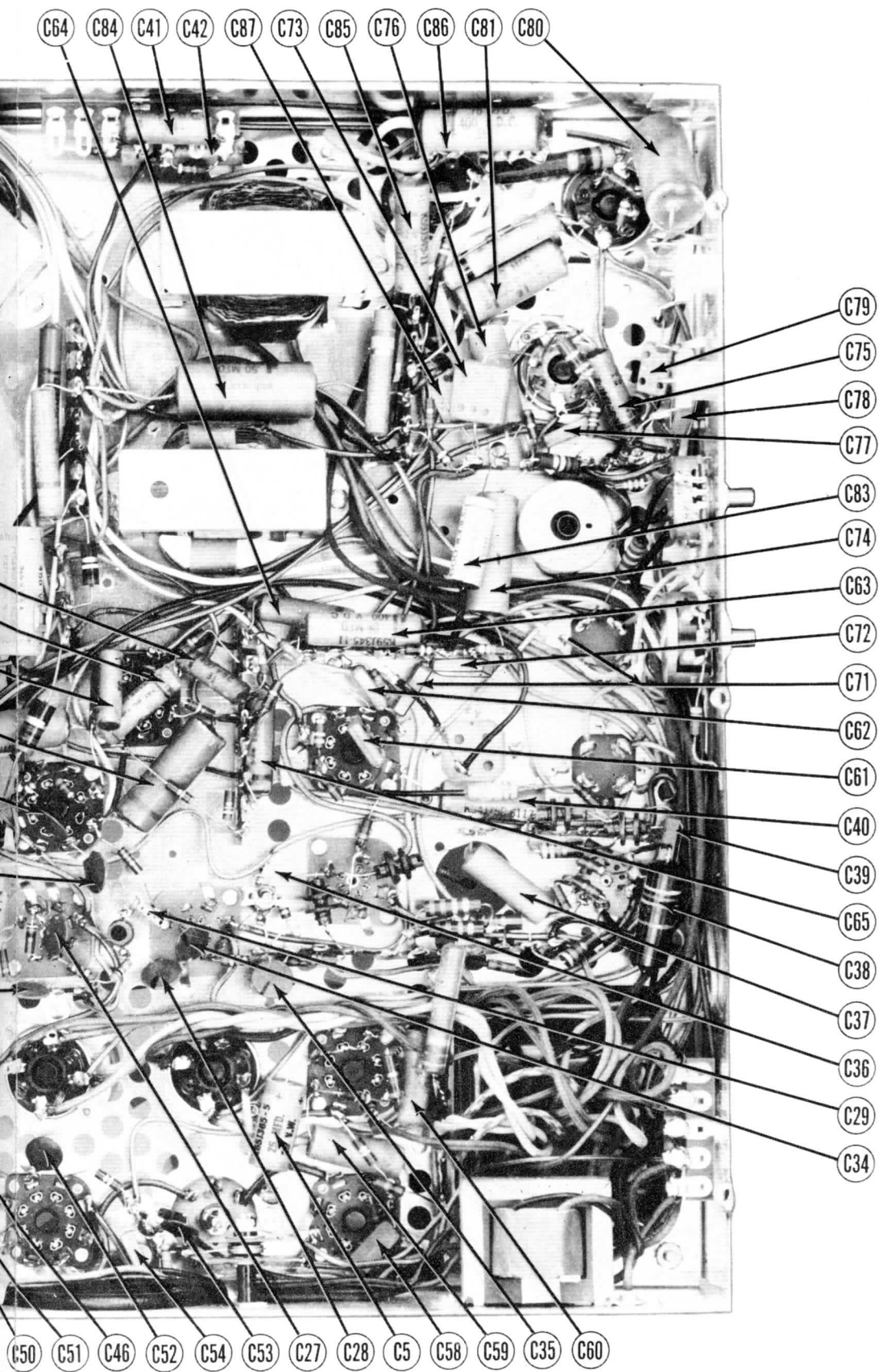
RF TUNER-RIGHT SIDE



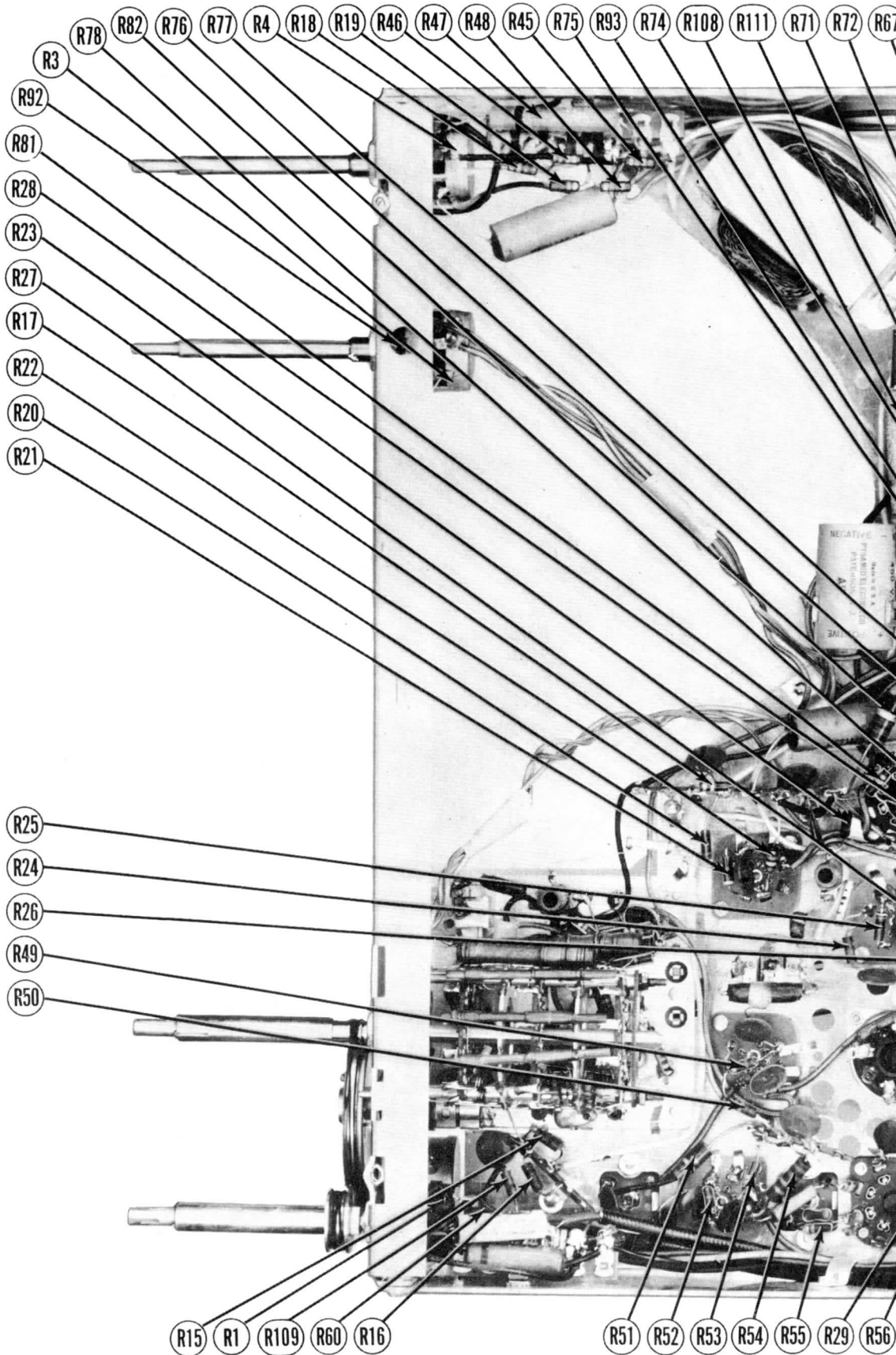
RF TUNER-LEFT SIDE



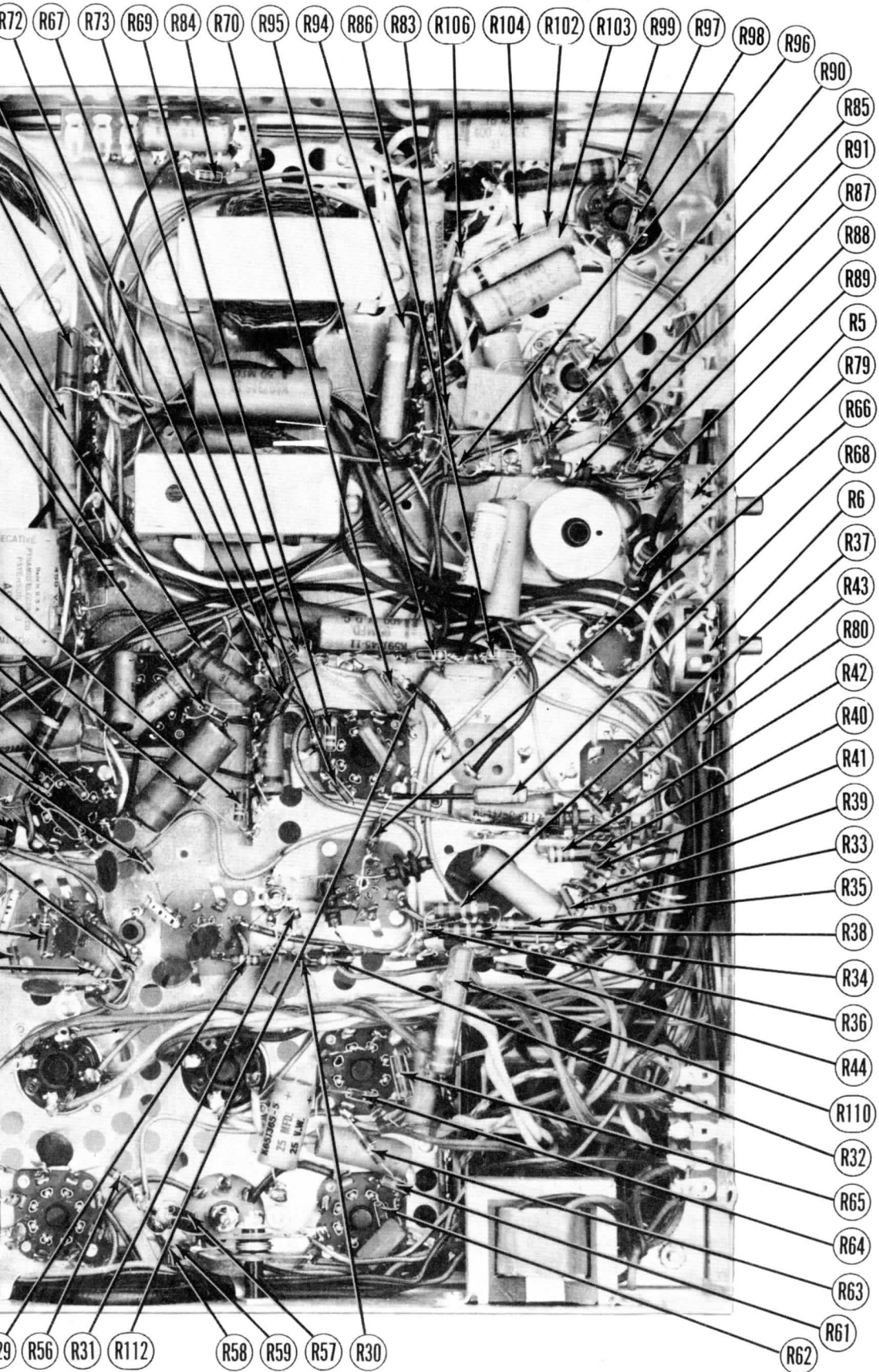
CHASSIS BOTTOM VIEW-CA



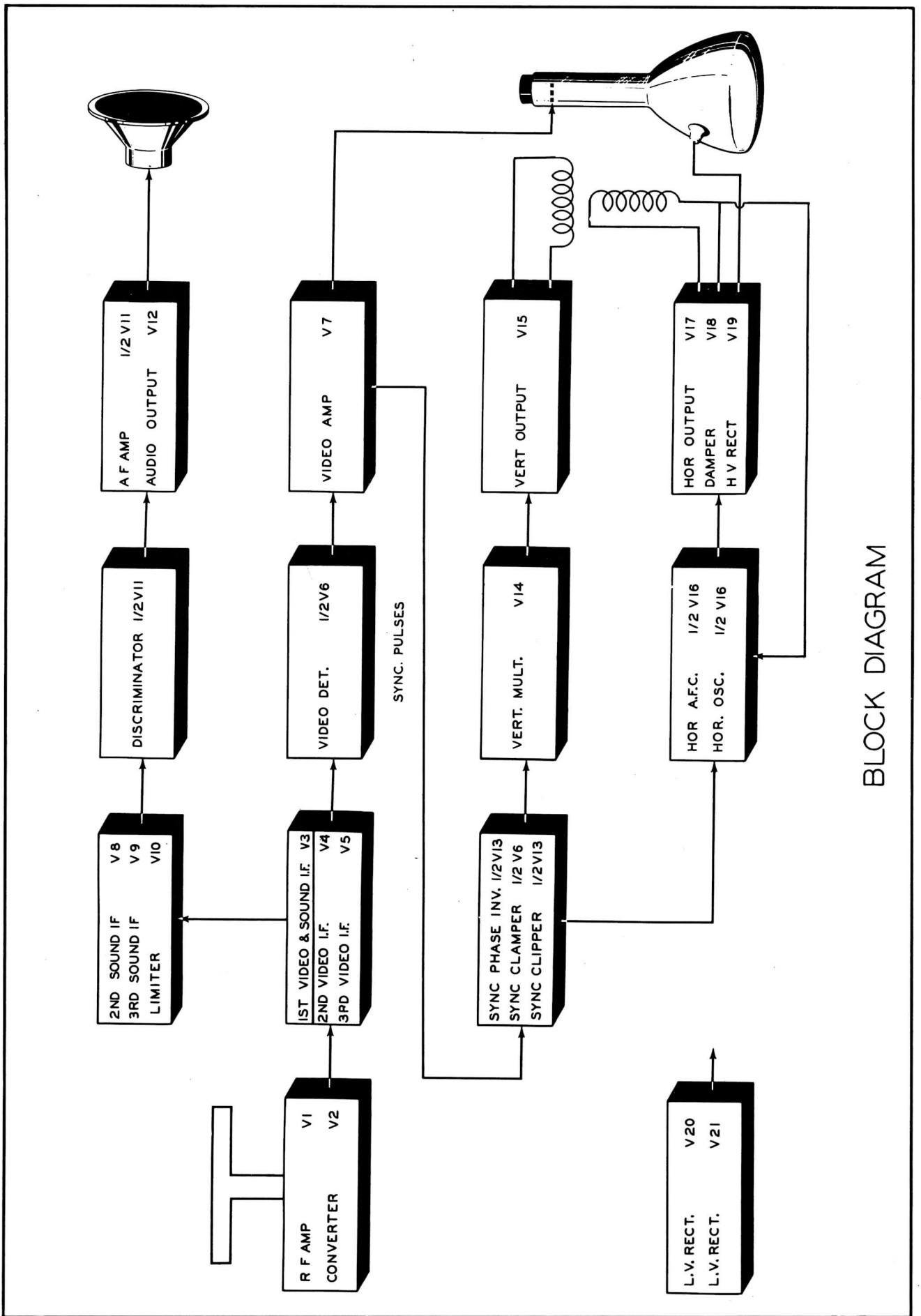
CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-RE



- RESISTOR IDENTIFICATION



BLOCK DIAGRAM

GENERAL ELECTRIC
MODEL 811

PARTS LIST AND CAPACITORS

TUBES (SYLVANIA or Equivalent)

| ITEM No. | USE | REPLACEMENT DATA | | RMA BASE TYPE | NOTES |
|----------|------------------------------------|------------------|----------------------|---------------|-------|
| | | G. E. PART No. | STANDARD REPLACEMENT | | |
| V1 | RF Amp. | 6AU6 | 6AU6 | 7BK | |
| V2 | Converter | 12AT7 | 12AT7 | | |
| V3 | 1st Video & Sound IF | 6AU6 | 6AU6 | 7BK | |
| V4 | 2nd Video IF | 6AU6 | 6AU6 | 7BK | |
| V5 | 3rd Video IF | 6AU6 | 6AU6 | 7BK | |
| V6 | Video Det.- Sync Clamper | 6AL5 | 6AL5 | 6BT | |
| V7 | Video Amp. | 12AU7 | 12AU7 | 9A | |
| V8 | 2nd Sound IF | 6AU6 | 6AU6 | 7BK | |
| V9 | 3rd Sound IF | 6AU6 | 6AU6 | 7BK | |
| V10 | Limiter | 6SH7 | 6SH7 | 8BK | |
| V11 | Disc.-AF Amp. | 6AQ7GT | 6AQ7GT | 8CK | |
| V12 | Audio Output | 6K6GT | 6K6GT | 7S | |
| V13 | Sync. Phase Inverter-Sync. Clipper | 6SN7GT | 6SN7GT | 8BD | |
| V14 | Vert. Mult. | 6SN7GT | 6SN7GT | 8BD | |
| V15 | Vert. Output | 6V6GT | 6V6GT | 7AC | |
| V16 | Hor. AFC-Hor. Oscillator | 6SN7GT | 6SN7GT | 8BD | |
| V17 | Hor. Output | 6V6GT | 6V6GT | 7AC | |
| V18 | Damper | 6V6GT | 6V6GT | 7AC | |
| V19 | HV Rect. | 1B3GT | 1B3GT | 3C | |
| V20 | LV Rect. | 5U4G | 5U4G | 5T | |
| V21 | LV Rect. | 5Y3GT | 5Y3GT | 5T | |
| V22 | Picture Tube | 10BP4 | 10BP4 | | |

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 | G. E. PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | SOLAR PART No. | | SPRAGUE PART No. |
| C1A | 30 | 450 | RCE-070 | AF862J4A | UP11DJ | | | | ▲ Filter |
| B | 30 | 450 | | PRS50/100 | 991 | | | | ■ Filter |
| C | 15 | 450 | | | | | | | ▲ Decoupling |
| D | 100 | 50 | | | | | | | Vert. Output Cath. Byp. |
| C2A | 15 | 450 | RCE-084 | AFH3666J | UP11DJ | | | | ▲ Filter |
| B | 30 | 450 | | | 1010 | | | | ■ Filter |
| C | 30 | 450 | | | | | | | ▲ Filter |
| D | 30 | 450 | | | | | | | Filter |
| C3 | 2000 | 6 | RCE-083 | PRS6/2000 | BRH-620 | | DY-2000-15 | TVL-43 | |
| C4 | 20 | 450 | RCE-093 | PRS450/20 | BR2045 | | | TVA-22 | Vert. Output Plate Dec. |
| C5 | 25 | 25 | UCE-065 | PRS25/25 | BR252A | | | TVA-6 | Output Cath. Bypass |
| C6 | 1000 | | RCW-1047 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | RF Coupling |
| C7 | 1500 | | RCW-026 | | | GP2L-0015 | | | RF Cath. Bypass |
| C8 | 47 | | RCW-1052 | | | GP1K-50 | | | RF Coupling |
| C9 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | RF Bypass |
| C10 | 47 | | RCW-2010 | | | N750L-47 | | | Fixed Trimmer |
| C11 | 1500 | | RCW-026 | | | GP2L-0015 | | | Osc. Plate Bypass |
| C12 | 12 | | RCW-2006 | | | GP1K-15 | | | Osc. Grid Cap. |
| C13 | 6 | | RCW-2030 | | | | | | Osc. Feedback |
| C14 | 1.5 | | RCW-1045 | | | | | | Osc. Coupling |
| C15 | 47 | | RCW-1052 | | | GP1K-50 | | | RF Coupling |
| C16 | 5 | | RCW-2035 | | | NFOK-5 | | | Fixed Trimmer |
| C17 | 12 | 500 | UCU-1056 | | | | | | Fixed Padder |
| C18 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | Conv. Plate Decoupling |
| C19 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | Bias Filter |
| C20 | 1500 | | RCW-026 | | | GP2L-0015 | | | RF Fil. Bypass |
| C21 | 5000 | | RCW-3014 | | | | | | Osc. Fil. Bypass |
| C22 | 100 | | RCW-1047 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | IF Coupling |
| C23 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 1st V. IF Screen Byp. |
| C24 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 1st V. IF Plate Decoupl. |
| C25 | 100 | | RCW-1047 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | IF Coupling |
| C26 | 2.5 | | RCW-3017 | | | | | | S. IF Coupling |
| C27 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 2nd V. IF Screen Byp. |
| C28 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 2nd V. IF Plate Dec. |
| C29 | 100 | | RCW-1047 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | IF Coupling |
| C30 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | Bias Filter |
| C31 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | RF Bypass |
| C32 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | Bias Filter |
| C33 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | Bias Filter |
| C34 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 3rd V. IF Screen Byp. |
| C35 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 3rd V. IF Plate Dec. |
| C36 | 6 | | RCW-1002 | | | | | | IF Coupling |
| C37 | .05 | 200 | UCG-635 | P288-05 | GT2S5 | | ST-4-05 | TM-15 | Video Coupling |
| C38 | .047 | 600 | RCN-014 | P688-047 | GT6S5 | | ST-6-05 | TM-15 | |
| C39 | 390 | 500 | UCU-1542 | 1468-0004 | 5W5T4 | GP2K-500 | MO.5-34 | 1FM-34 | V. Amp. Cath. Byp. |
| C40 | .05 | 600 | UCG-635 | P688-05 | GT6S5 | | ST-6-05 | TM-15 | Sync. Coupling |
| C41 | .02 | 600 | UCG-631 | P688-02 | GT6S2 | | ST-6-02 | TM-12 | Retrace Blanking Coup. |
| C42 | .05 | 400 | UCG-635 | P488-05 | GT4S5 | | ST-4-05 | TM-15 | Voltage Divider |
| C43 | .2 | 200 | UCG-014 | P488-22 | GT4P2 | | ST-4-2 | TC-2 | Brightness Cont. Byp. |
| C44 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 2nd S. IF Cath. Byp. |
| C45 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 2nd S. IF Screen Byp. |
| C46 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 2nd S. IF Plate Dec. |
| C47 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 3rd S. IF Cath. Bypass |
| C48 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | 3rd S. IF Screen Byp. |
| C49 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | RF Bypass |
| C50 | 100 | 500 | UCU-1528 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | IF Coupling |
| C51 | 47 | | RCW-1047 | 1468-00005 | 5W5Q5 | GP1K-50 | MO.5-45 | 1FM-45 | Limiter Grid Filter |
| C52 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | Limiter Screen Bypass |
| C53 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 | HW.5-25 | 1FM-25 | Limiter Plate Dec. |
| C54 | 150 | 500 | UCU-1532 | 1468-00015 | 5W5T15 | GP2K-150 | MO.5-315 | 1FM-315 | De-emphasis |
| C55 | .01 | 200 | UCG-630 | P498-01 | GT2S1 | GP2-335-01 | ST-4-01 | TM-11 | Audio Coupling |
| C56 | .01 | 200 | UCG-630 | P498-01 | GT2S1 | GP2-335-01 | ST-4-01 | TM-11 | Tone Comp. |
| C57 | .02 | 200 | UCG-631 | P498-02 | GT2S2 | | ST-4-02 | TM-12 | Audio Coupling |
| C58 | 390 | 500 | UCU-1542 | 1468-0004 | 5W5T4 | GP2K-300 | MO.5-34 | 1FM-34 | AF Plate Bypass |
| C59 | .01 | 600 | UCG-630 | P688-01 | GT6S1 | GP2-335-01 | ST-6-01 | TM-25 | Audio Coupling |
| C60 | .005 | 600 | UCG-635 | P688-005 | GT6S5 | | ST-6-005 | TM-25 | Output Plate Bypass |
| C61 | 100 | 500 | UCU-1528 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | Sync. Coupling |
| C62 | 390 | 500 | UCU-1542 | 1468-0004 | 5W5T4 | GP2K-500 | MO.5-34 | 1FM-34 | Sync. Clipper Cath. Byp. |
| C63 | .05 | 400 | UCG-635 | P488-05 | GT6S5 | | ST-4-05 | TM-15 | Integrator Net. |

| ITEM No. | RATING | | REPLACEMENT DATA | | |
|----------|--------|------|------------------|------------------|---------------------------|
| | CAP. | VOLT | G. E. PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. |
| C64 | .01 | 400 | UCG-630 | P488-01 | GT461 |
| C65 | .01 | 400 | UCG-630 | P488-01 | GT461 |
| C66 | .001 | 400 | UCG-620 | P688-001 | GT6D1 |
| C67 | .002 | 600 | UCG-621 | P688-002 | GT6D2 |
| C68 | .06 | 600 | RCC-095 | 684-06 | |
| C69 | .001 | 400 | UCG-620 | P688-001 | GT6D1 |
| C70 | .1 | 600 | UCG-640 | P688-1 | GT6F1 |
| C71 | 120 | 500 | UCU-1530 | | |
| C72 | 120 | 500 | UCU-1530 | | |
| C73 | 2200 | 500 | UCU-2560 | 1467-002 | 1W5D2 |
| C74 | .2 | 200 | UCG-014 | P488-22 | GT4P2 |
| C75 | .002 | 200 | UCG-621 | P688-002 | GT6D2 |
| C76 | .05 | 600 | UCG-635 | P688-05 | GT6S5 |
| C77 | 180 | 500 | UCU-2534 | | |
| C78 | 2200 | 500 | UCU-2560 | | |
| C79 | 390 | 500 | UCU-1542 | 1468-0004 | 5W5T4 |
| C80 | .5 | 200 | RCC-016 | P288-5 | GT2P5 |
| C81 | .1 | 600 | UCG-640 | P688-1 | GT6F1 |
| C82 | .0022 | 1000 | RCN-019 | | |
| C83 | .01 | 600 | UCG-630 | P688-01 | GT6S1 |
| C84 | .5 | 200 | RCC-016 | P288-5 | GT2P5 |
| C85 | .05 | 400 | UCG-635 | P488-05 | GT4S5 |
| C86 | .1 | 400 | UCG-640 | P488-1 | GT4F1 |
| C87 | 4 | 800 | RCN-020 | | |
| C88 | 5000 | | RCW-3014 | 1467-005 | 1D5D5 |
| C89 | .05 | 200 | UCG-635 | P288-05 | GT2S5 |
| C90 | 500 | 2000 | RCN-011 | | |

* Some models may use 50MFD in this application.

CONTI

| ITEM No. | RATING | | REPLACEMENT DATA | | |
|----------|------------|-------|------------------|--------------|-------------------|
| | RESISTANCE | WATTS | G. E. PART No. | IRC PART No. | CLAROSTA PART No. |
| R1 | 2 Meg. | 1/4 | RRC-091 | | |
| R2 | 1000Ω | 1/4 | RRC-088 | | 58-1000 |
| R3A | 50KΩ | 1/4 | RRC-090 | | |
| B | 50KΩ | 1/4 | | | |
| R4A | 7500Ω | 1/4 | RRC-089 | | |
| B | 500KΩ | 1/4 | | | |
| R5A | 100KΩ | 1/4 | RRC-087 | D11-128 | M-49-S |
| B | Shaft | | Not Req. | A | Not Req. |
| R6 | 1000Ω | 2 | RRC-086 | W-1000 | 10-1000 |

RESIS

| ITEM No. | RATING | | REPLACEMENT DATA | |
|----------|------------|-------|------------------|--------------|
| | RESISTANCE | WATTS | G. E. PART No. | IRC PART No. |
| R7 | 200Ω | 1/4 | URD-1032 | |
| R8 | 6200Ω | 1/4 | URE-1068 | |
| R9 | 5600Ω | 1/4 | URE-1067 | |
| R10 | 2200Ω | 1/4 | URD-1105 | |
| R11 | 22KΩ | 1/4 | URD-1082 | |
| R12 | 27KΩ | 1/4 | URE-083 | |
| R13 | 3000Ω | 1/4 | URE-1060 | |
| R14 | 22KΩ | 1/4 | URD-1091 | |
| R15 | 1 Meg. | 1/4 | URD-121 | BTS-1 Meg. |
| R16 | 1 Meg. | 1/4 | URD-121 | BTS-1 Meg. |
| R17 | 100KΩ | 1/4 | URD-097 | BTS-100K |
| R18 | 82KΩ | 1/4 | URD-1095 | BTS-82K |
| R19 | 56KΩ | 1/4 | URD-091 | BTS-56K |
| R20 | 2700Ω | 1/4 | URD-1059 | BTS-2700-5% |
| R21 | 47Ω | 1/4 | URD-1017 | |

PARTS LIST AND DESCRIPTIONS

CAPACITORS

| ITEM No. | RATING | REPLACEMENT DATA | | IDENTIFICATION CODES AND INSTALLATION NOTES | |
|----------|------------|------------------|------------------|---|---------------|
| | CAP. VOLT | G. E. PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. |
| C64 | .01 400 | UCC-630 | P488-01 | GT4S1 | GP2-335-01 |
| C65 | .01 400 | UCC-630 | P488-01 | GT4S1 | GP2-335-01 |
| C66 | .001 400 | UCC-620 | P688-001 | GT6D1 | GP2L-001 |
| C67 | .002 600 | UCC-621 | P688-002 | GT6D2 | GP2M-002 |
| C68 | .06 600 | RCC-095 | 684-06 | | |
| C69 | .001 400 | UCC-620 | P688-001 | GT6D1 | GP2L-001 |
| C70 | .1 600 | UCC-640 | P688-1 | GT6F1 | |
| C71 | 120 500 | UCC-1530 | | | |
| C72 | 120 500 | UCC-1530 | | | |
| C73 | 2200 500 | UCU-2560 | 1467-002 | 1W5D2 | |
| C74 | .2 200 | UCC-014 | P488-22 | GT4P2 | |
| C75 | .002 200 | UCC-621 | P688-002 | GT6D2 | GP2M-002 |
| C76 | .05 600 | UCC-635 | P688-05 | GT6S5 | |
| C77 | 180 500 | UCU-2534 | | | |
| C78 | 2200 500 | UCU-2560 | | | |
| C79 | 390 500 | UCU-1542 | 1468-0004 | 5W5T4 | |
| C80 | .5 200 | RCC-016 | P288-5 | GT2P5 | |
| C81 | .1 500 | UCU-640 | P688-1 | GT6F1 | |
| C82 | .0022 1000 | RCN-019 | | | |
| C83 | .01 600 | UCC-630 | P688-01 | GT6S1 | GP2-335-01 |
| C84 | .5 200 | RCC-016 | P288-5 | GT2P5 | |
| C85 | .05 400 | UCC-635 | P488-05 | GT4S5 | |
| C86 | .1 400 | UCC-640 | P488-1 | GT4F1 | |
| C87 | 4 800 | RCN-020 | | | |
| C88 | 5000 2000 | RCW-3014 | 1467-005 | 1D5D5 | GP2M-005 |
| C89 | .05 200 | UCC-635 | P288-05 | GT2S5 | |
| C90 | 500 2000 | RCN-011 | | | |

| ITEM No. | RATING | REPLACEMENT DATA | | | | | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|----------|------------------|------------------|---------------------------|---------------|----------------|---|
| | | G. E. PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | SOLAR PART No. | |
| R66 | 2.2 Meg. | | | | | | Integrator Net. |
| R67 | 1000Ω | | | | | | " |
| R68 | 15KΩ | | | | | | Vert. Sync. Coupling |
| R69 | 3.9 Meg. | | | | | | Vert. M.V. Feedback |
| R70 | 6800Ω | | | | | | " |
| R71 | 1500Ω | | | | | | Vert. M.V. Grid Cap. |
| R72 | 8200Ω | | | | | | Vert. Discharge |
| R73 | 8200Ω | | | | | | Hor. Sync. Coupling |
| R74 | 75KΩ | | | | | | Voltage Divider |
| R75 | 220KΩ | | | | | | Sync. Coupling |
| R76 | 82KΩ | | | | | | AFC Filter |
| R77 | 24KΩ | | | | | | " |
| R78 | 2.2 Meg. | | | | | | AFC Plate Bypass |
| R79 | 27KΩ | | | | | | Hor. Grid Cap. |
| R80 | 470Ω | | | | | | Hor. Discharge |
| R81 | 100KΩ | | | | | | Hor. Sweep Coupling |
| R82 | 820Ω | | | | | | Hor. Output Cath. Byp. |
| R83 | 1600Ω | | | | | | Hor. Output Screen Byp. |
| R84 | 2700Ω | | | | | | Pulse Coupling |
| R85 | 1 Meg. | | | | | | ACC Anode Bypass |
| R86 | 18KΩ | | | | | | Hor. Coupling |
| R87 | 180KΩ | | | | | | Damper Filter |
| R88 | 82KΩ | | | | | | " |
| R89 | 33KΩ | | | | | | AFC Coupling |
| R90 | 3.3 Meg. | | | | | | Vert. Output Fil. Byp. |
| R91 | 47KΩ | | | | | | Contrast Cont. Byp. |
| R92 | 24KΩ | | | | | | H.V. Filter |
| R93 | 100KΩ | | | | | | " |
| R94 | 82KΩ | | | | | | " |
| R95 | 100KΩ | | | | | | " |
| R96 | 150KΩ | | | | | | " |
| R97 | 1 Meg. | | | | | | " |
| R98 | 350Ω | | | | | | " |
| R99 | 82Ω | | | | | | " |
| R100 | 33Ω | | | | | | " |
| R101 | 470KΩ | | | | | | " |
| R102 | 30KΩ | | | | | | " |
| R103 | 30KΩ | | | | | | " |
| R104 | 120KΩ | | | | | | " |
| R105 | 470KΩ | | | | | | " |
| R106 | 560KΩ | | | | | | " |
| R107 | 4700Ω | | | | | | " |
| R108 | 3300Ω | | | | | | " |
| R109 | 1 Meg. | | | | | | " |
| R110 | 2200Ω | | | | | | " |
| R111 | 560Ω | | | | | | " |
| R112 | 1Ω | | | | | | " |

* Some models may use 50MFD in this application. † Some models may use 10MFD in this application.

| ITEM No. | RATING | REPLACEMENT DATA | | INSTALLATION NOTES | |
|----------|------------------|------------------|--------------|--------------------|--|
| | RESISTANCE WATTS | G. E. PART No. | IRC PART No. | CLAROSTAT PART No. | |
| R1 | 2 Meg. | RRC-091 | | | Volume control and switch tapped @ 500KΩ |
| R2 | 1000Ω | RRC-088 | | 58-1000 | Focus control |
| R3A | 50KΩ | RRC-090 | | | Horiz. hold control |
| R4A | 50KΩ | RRC-090 | | | Vert. hold control |
| R4A | 7500Ω | RRC-089 | | | Brightness control |
| R5A | 500KΩ | RRC-087 | D11-128 | M-49-S | Contrast control |
| R5A | 100KΩ | Not Req. | A | Not Req. | Vert. Size control |
| R6 | 1000Ω | RRC-086 | W-1000 | 10-1000 | Attach to R5A Per Instructions |
| | | | | | Vert. Linearity control |

| ITEM No. | RATING | REPLACEMENT DATA | | INSTALLATION NOTES | |
|----------|---------|------------------|--------------|--------------------|-------------------------------|
| | | G. E. PART No. | IRC PART No. | CLAROSTAT PART No. | |
| R7 | 200Ω | | | | RF Cathode |
| R8 | 6200Ω | | | | RF Plate |
| R9 | 5600Ω | | | | 5% |
| R10 | 220KΩ | | | | Conv Grid |
| R11 | 22KΩ | | | | Conv. Plate Coil Shunt |
| R12 | 27KΩ | | | | Conv. Plate Decoupling |
| R13 | 3000Ω | | | | Osc. Plate |
| R14 | 22KΩ | | | | Osc. Grid |
| R15 | 1 Meg. | | | | Bias Network |
| R16 | 1 Meg. | | | | 20% |
| R17 | 100KΩ | | | | 20% |
| R18 | 82KΩ | | | | " |
| R19 | 56KΩ | | | | " |
| R20 | 2700Ω | | | | BTS-2700-5% |
| R21 | 47Ω | | | | 1st IF Grid |
| R22 | 24KΩ | | | | 1st IF Cathode |
| R23 | 1000Ω | | | | 1st IF Screen |
| R24 | 1500Ω | | | | 1st IF Plate Decoupling |
| R25 | 47Ω | | | | 2nd Video IF Grid |
| R26 | 24KΩ | | | | 2nd Video IF Cathode |
| R27 | 1000Ω | | | | 2nd Video IF Screen |
| R28 | 2700Ω | | | | 2nd Video IF Plate Decoupling |
| R29 | 24KΩ | | | | 3rd Video IF Grid |
| R30 | 1000Ω | | | | 3rd Video IF Screen |
| R31 | 39KΩ | | | | 3rd Video IF Decoupling |
| R32 | 5100Ω | | | | 3rd Video IF Trans. Shunt |
| R33 | 1 Meg. | | | | Video Det. Load |
| R34 | 4700Ω | | | | Video Amp. Grid |
| R35 | 5100Ω | | | | Video Amp. Plate |
| R36 | 5100Ω | | | | " |
| R37 | 22KΩ | | | | " |
| R38 | 22KΩ | | | | " |
| R39 | 5600Ω | | | | " |
| R40 | 1 Meg. | | | | BTA-22K-5% |
| R41 | 120Ω | | | | BTA-22K-5% |
| R42 | 3300Ω | | | | BTS-5600-5% |
| R43 | 1000Ω | | | | BTS-1 Meg. |
| R44 | 1 Meg. | | | | BTS-1 Meg. |
| R45 | 24KΩ | | | | BTS-1 Meg. |
| R46 | 270KΩ | | | | BTA-3300-5% |
| R47 | 20KΩ | | | | BTS-1000-5% |
| R48 | 4700Ω | | | | BTS-1 Meg. |
| R49 | 120Ω | | | | BTS-1 Meg. |
| R50 | 56KΩ | | | | BTS-270K |
| R51 | 22KΩ | | | | BTS-1 Meg. |
| R52 | 120Ω | | | | 2nd Sound IF Cathode |
| R53 | 150KΩ | | | | 2nd Sound IF Screen |
| R54 | 22KΩ | | | | 2nd Sound IF Plate Decoupling |
| R55 | 56KΩ | | | | 3rd Sound IF Cathode |
| R56 | 220KΩ | | | | 3rd Sound IF Screen |
| R57 | 1000Ω | | | | 3rd Sound IF Plate |
| R58 | 68KΩ | | | | 3rd Sound IF Grid |
| R59 | 68KΩ | | | | 3rd Sound IF Cathode |
| R60 | 82KΩ | | | | 3rd Sound IF Screen |
| R61 | 1000Ω | | | | 3rd Sound IF Plate |
| R62 | 10 Meg. | | | | Limiting Grid |
| R63 | 220KΩ | | | | Limiting Screen |
| R64 | 470KΩ | | | | Limiting Plate Decoupling |
| R65 | 75Ω | | | | De-emphasis |

All resistors are ± 10% unless otherwise stated.

| ITEM No. | RATING | REPLACEMENT DATA | | IDENTIFICATION CODES | |
|----------|------------------|------------------|--------------|----------------------|-------------------------|
| | RESISTANCE WATTS | G. E. PART No. | IRC PART No. | | |
| R66 | 2.2 Meg. | | | | Integrator Net. |
| R67 | 1000Ω | | | | " |
| R68 | 15KΩ | | | | Vert. Sync. Coupling |
| R69 | 3.9 Meg. | | | | Vert. M.V. Feedback |
| R70 | 6800Ω | | | | " |
| R71 | 1500Ω | | | | Vert. M.V. Grid Cap. |
| R72 | 8200Ω | | | | Vert. Discharge |
| R73 | 8200Ω | | | | Hor. Sync. Coupling |
| R74 | 75KΩ | | | | Voltage Divider |
| R75 | 220KΩ | | | | Sync. Coupling |
| R76 | 82KΩ | | | | AFC Filter |
| R77 | 24KΩ | | | | " |
| R78 | 2.2 Meg. | | | | AFC Plate Bypass |
| R79 | 27KΩ | | | | Hor. Grid Cap. |
| R80 | 470Ω | | | | Hor. Discharge |
| R81 | 100KΩ | | | | Hor. Sweep Coupling |
| R82 | 820Ω | | | | Hor. Output Cath. Byp. |
| R83 | 1600Ω | | | | Hor. Output Screen Byp. |
| R84 | 2700Ω | | | | Pulse Coupling |
| R85 | 1 Meg. | | | | ACC Anode Bypass |
| R86 | 18KΩ | | | | Hor. Coupling |
| R87 | 180KΩ | | | | Damper Filter |
| R88 | 82KΩ | | | | " |
| R89 | 33KΩ | | | | AFC Coupling |
| R90 | 3.3 Meg. | | | | Vert. Output Fil. Byp. |
| R91 | 47KΩ | | | | Contrast Cont. Byp. |
| R92 | 24KΩ | | | | H.V. Filter |
| R93 | 100KΩ | | | | " |
| R94 | 82KΩ | | | | " |
| R95 | 100KΩ | | | | " |
| R96 | 150KΩ | | | | " |
| R97 | 1 Meg. | | | | " |
| R98 | 350Ω | | | | " |
| R99 | 82Ω | | | | " |
| R100 | 33Ω | | | | " |
| R101 | 470KΩ | | | | " |
| R102 | 30KΩ | | | | " |
| R103 | 30KΩ | | | | " |
| R104 | 120KΩ | | | | " |
| R105 | 470KΩ | | | | " |
| R106 | 560KΩ | | | | " |
| R107 | 4700Ω | | | | " |
| R108 | 3300Ω | | | | " |
| R109 | 1 Meg. | | | | " |
| R110 | 2200Ω | | | | " |
| R111 | 560Ω | | | | " |
| R112 | 1Ω | | | | " |

| ITEM No. | RATING | REPLACEMENT DATA | | IDENTIFICATION CODES | |
|----------|----------|------------------|--------------|----------------------|-------------------------|
| | | G. E. PART No. | IRC PART No. | | |
| R113 | 2.2 Meg. | | | | Integrator Net. |
| R114 | 1000Ω | | | | " |
| R115 | 15KΩ | | | | Vert. Sync. Coupling |
| R116 | 3.9 Meg. | | | | Vert. M.V. Feedback |
| R117 | 6800Ω | | | | " |
| R118 | 1500Ω | | | | Vert. M.V. Grid Cap. |
| R119 | 8200Ω | | | | Vert. Discharge |
| R120 | 8200Ω | | | | Hor. Sync. Coupling |
| R121 | 75KΩ | | | | Voltage Divider |
| R122 | 220KΩ | | | | Sync. Coupling |
| R123 | 82KΩ | | | | AFC Filter |
| R124 | 24KΩ | | | | " |
| R125 | 2.2 Meg. | | | | AFC Plate Bypass |
| R126 | 27KΩ | | | | Hor. Grid Cap. |
| R127 | 470Ω | | | | Hor. Discharge |
| R128 | 100KΩ | | | | Hor. Sweep Coupling |
| R129 | 820Ω | | | | Hor. Output Cath. Byp. |
| R130 | 1600Ω | | | | Hor. Output Screen Byp. |
| R131 | 2700Ω | | | | Pulse Coupling |
| R132 | 1 Meg. | | | | ACC Anode Bypass |
| R133 | 18KΩ | | | | Hor. Coupling |
| R134 | 180KΩ | | | | Damper Filter |
| R135 | 82KΩ | | | | " |
| R136 | 33KΩ | | | | AFC Coupling |
| R137 | 3.3 Meg. | | | | Vert. Output Fil. Byp. |
| R138 | 47KΩ | | | | Contrast Cont. Byp. |
| R139 | 24KΩ | | | | H.V. Filter |
| R140 | 100KΩ | | | | " |
| R141 | 82KΩ | | | | " |
| R142 | 100KΩ | | | | " |
| R143 | 150KΩ | | | | " |
| R144 | 1 Meg. | | | | " |
| R145 | 350Ω | | | | " |
| R146 | 82Ω | | | | " |
| R147 | 33Ω | | | | " |
| R148 | 470KΩ | | | | " |
| R149 | 30KΩ | | | | " |
| R150 | 30KΩ | | | | " |
| R151 | 120KΩ | | | | " |
| R152 | 470KΩ | | | | " |
| R153 | 560KΩ | | | | " |
| R154 | 4700Ω | | | | " |
| R155 | 3300Ω | | | | " |
| R156 | 1 Meg. | | | | " |
| R157 | 2200Ω | | | | " |
| R158 | 560Ω | | | | " |
| R159 | 1Ω | | | | " |

| ITEM No. | RATING | REPLACEMENT DATA | | IDENTIFICATION CODES | |
|----------|----------|------------------|--------------|----------------------|----------------------|
| | | G. E. PART No. | IRC PART No. | | |
| R160 | 2.2 Meg. | | | | Integrator Net. |
| R161 | 1000Ω | | | | " |
| R162 | 15KΩ | | | | Vert. Sync. Coupling |
| R163 | 3.9 Meg. | | | | Vert. M.V. Feedback |
| R164 | 6800Ω | | | | " |
| R165 | 1500Ω | | | | Vert. M.V. Grid Cap. |
| R166 | 8200Ω | | | | Vert. Discharge |
| R167 | 8200Ω | | | | Hor. Sync. Coupling |
| R168 | 75KΩ | | | | Voltage Divider |

DESCRIPTIONS

| ITEM No. | SOLAR PART No. | SPRAGUE PART No. | IDENTIFICATION CODES AND INSTALLATION NOTES |
|----------|----------------|------------------|---|
| 5-01 | ST-4-01 | TM-11 | Integrator Net. |
| 5-01 | ST-4-01 | TM-11 | " |
| 01 | ST-6-001 | TM-21 | Vert. Sync. Coupling |
| 02 | ST-6-002 | TM-22 | Vert. M.V. Feedback |
| 01 | ST-6-06 | TM-16 | " |
| 01 | ST-6-001 | TM-21 | Vert. M.V. Grid Cap. |
| 01 | ST-6-1 | TM-1 | Vert. Discharge |
| 02 | MW.5-22 | 1FM-22 | Hor. Sync. Coupling |
| 02 | ST-4-2 | TC-2 | Voltage Divider |
| 02 | ST-6-002 | TM-22 | Sync. Coupling |
| 02 | ST-6-05 | TM-15 | AFC Filter |
| 05 | M0.5-34 | 1FM-34 | AFC Plate Bypass |
| 05 | ST-2-5 | TC-5 | Hor. Grid Cap. |
| 05 | ST-6-1 | TM-1 | Hor. Discharge |
| 05 | ST-6-01 | TM-11 | Hor. Sweep Coupling |
| 05 | ST-2-5 | TC-5 | Hor. Output Cath. Byp. |
| 05 | ST-4-05 | TM-15 | Hor. Output Screen Byp. |
| 05 | ST-4-1 | TM-1 | Pulse Coupling |
| 05 | MW.5-25 | 1FM-25 | AFC Anode Bypass |
| 05 | ST-4-05 | TM-15 | Hor. Coupling |
| 05 | ST-4-05 | TM-15 | Damper Filter |
| 05 | MW.5-25 | 1FM-25 | AFC Coupling |
| 05 | ST-4-05 | TM-15 | Vert. Output Fil. Byp. |
| 05 | ST-4-05 | TM-15 | Contrast Cont. Byp. |
| 05 | ST-4-05 | TM-15 | H.V. Filter |

† Some models may use 10MPD in this application.

INSTALLATION NOTES

Volume control and switch tapped @ 500KΩ
Focus control
Horiz. hold control Dual concentric
Vert. hold control
Brightness control Dual concentric
Contrast control
Vert. Size control
Attach to RSA Per Instructions
Vert. Linearity control

IDENTIFICATION CODES

Resistors are ± 10% unless otherwise stated.

| | |
|---------------------------|----|
| Cathode | 5% |
| Plate | 5% |
| IF Grid | 5% |
| IF Plate Coil Shunt | 5% |
| IF Plate Decoupling | 5% |
| IF Plate | 5% |
| IF Grid | 5% |
| IF Screen | 5% |
| IF Plate Decoupling | 5% |
| Video IF Grid | 5% |
| Video IF Cathode | 5% |
| Video IF Screen | 5% |
| Video IF Plate Decoupling | 5% |
| Video IF Grid | 5% |
| Video IF Screen | 5% |
| Video IF Decoupling | 5% |
| Video IF Trans. Shunt | 5% |
| so Det. Load | 5% |
| so Amp. Grid | 5% |
| so Amp. Plate | 5% |
| " | 5% |
| " | 5% |
| " | 5% |
| " | 5% |
| Stage Divider | 5% |
| so Amp. Grid | 5% |
| so Amp. Cathode | 5% |
| so Amp. Plate | 5% |
| " | 5% |
| " | 5% |
| ament Isolation | 5% |
| ature Tube Cathode | 5% |
| s Network | 5% |
| Stage Divider | 5% |
| " | 5% |
| Sound IF Cathode | 5% |
| Sound IF Screen | 5% |
| Sound IF Plate Decoupling | 5% |
| Sound IF Cathode | 5% |
| Sound IF Screen | 5% |
| Sound IF Plate | 5% |
| ter Grid | 5% |
| ter Screen | 5% |
| ter Plate Decoupling | 5% |
| mphasis | 5% |
| " | 5% |
| " | 5% |
| " | 5% |
| Grid | 5% |
| Plate | 5% |
| ut Grid | 5% |
| ut Cathode | 5% |

RESISTORS

| ITEM No. | RATING | | REPLACEMENT DATA | | IDENTIFICATION CODES |
|----------|------------|-------|------------------|---------------|------------------------------|
| | RESISTANCE | WATTS | G. E. PART No. | IRC PART No. | |
| R66 | 2.2 Meg. | 1/2 | URD-129 | BTS-2.2 Meg. | Sync. Phase Inv. Grid 20% |
| R67 | 1000Ω | 1/2 | URD-049 | BTS-1000 | Sync. Phase Inv. Cathode 20% |
| R68 | 15KΩ | 1 | URE-077 | ETA-15K | Sync. Phase Inv. Plate |
| R69 | 3.9 Meg. | 1 | URD-135 | BTS-3.9 Meg. | Sync. Clipper Grid |
| R70 | 6800Ω | 1 | URD-069 | BTS-6800 | Sync. Clipper Cathode |
| R71 | 1500Ω | 1 | URD-1054 | BTS-1500 | Sync. Clipper Plate |
| R72 | 8200Ω | 1 | URD-071 | BTS-8200 | Integrator |
| R73 | 8200Ω | 1 | URD-071 | BTS-8200 | Integrator |
| R74 | 75KΩ | 1 | URD-1094 | | Vert. Multi. Grid 5% |
| R75 | 220KΩ | 1 | URD-1105 | BTS-220K-5% | Vert. Multi. Plate 5% |
| R76 | 82KΩ | 1 | URD-1095 | BTS-82K-5% | Vert. Multi. Grid 5% |
| R77 | 24KΩ | 1 | URD-1082 | | " See Note 1 |
| R78 | 2.2 Meg. | 1 | URD-1129 | BTS-2.2Meg-5% | Vert. Multi. Plate 5% |
| R79 | 27KΩ | 1 | URE-083 | ETA-27K | Voltage Dropping |
| R80 | 470Ω | 1 | URD-1041 | BTS-470 | Vert. Output Cathode |
| R81 | 100KΩ | 1 | URD-097 | BTS-100K | Vert. Output Trans. Shunt |
| R82 | 820Ω | 1 | URF-047 | BT-2-820 | Filter |
| R83 | 1800Ω | 1 | URD-1054 | | Vert. Output Trans. Shunt 5% |
| R84 | 2700Ω | 1 | URD-1059 | BTS-2700 | Integrator Network |
| R85 | 1 Meg. | 1 | URD-1121 | BTS-1 Meg-5% | Horiz. AFC Grid 5% |
| R86 | 18KΩ | 1 | | BTS-18K | Horiz. AFC Filter |
| R87 | 180KΩ | 1 | URD-1103 | ETA-180K | Horiz. AFC Cathode |
| R88 | 82KΩ | 1 | URD-1095 | BTS-82K-5% | Voltage Divider 5% |
| R89 | 33KΩ | 1 | URD-085 | BTS-33K-5% | " 5% |
| R90 | 3.3 Meg. | 1 | URE-133 | ETA-3.3 Meg. | " |
| R91 | 47KΩ | 1 | URD-089 | BTS-47K | Horiz. Osc. Grid |
| R92 | 24KΩ | 1 | URD-1082 | | Voltage Divider |
| R93 | 100KΩ | 1 | URE-097 | ETA-100K | Horiz. Osc. Plate |
| R94 | 82KΩ | 1 | URF-1095 | BT-2-82K | Filter |
| R95 | 100KΩ | 1 | URD-097 | BTS-100K | AFC Feedback |
| R96 | 150KΩ | 1 | URD-101 | BTS-150K | Parasitic Suppressor |
| R97 | 1 Meg. | 1 | URD-121 | ETS-1 Meg. | Horiz. Output Grid |
| R98 | 330Ω | 1 | URD-037 | ETA-330 | Parasitic Suppressor |
| R99 | 82Ω | 1 | URF-1023 | | Horiz. Output Cathode |
| R100 | 33Ω | 1 | URE-013 | | Parasitic Suppressor |
| R101 | 470KΩ | 1 | URD-113 | | Current Limiting |
| R102 | 30KΩ | 1 | URF-083 | BT-2-27K-5% | Horiz. Output Screen 5% |
| R103 | 30KΩ | 2 | URF-083 | BT-2-27K-5% | " 5% |
| R104 | 120KΩ | 2 | URD-099 | BTS-120K-5% | " 5% |
| R105 | 470KΩ | 2 | URD-113 | | " 5% |
| R106 | 560KΩ | 2 | URD-115 | BTS-560K-5% | HV Filter |
| R107 | 4700Ω | 2 | URD-065 | BTS-4700-5% | Feedback Network 5% |
| R108 | 3300Ω | 2 | URF-061 | BT-2-3300 | Linearity Coil Shunt 20% |
| R109 | 1 Meg. | 2 | URD-121 | BTS-1 Meg. | Horiz. Size Coil Shunt 20% |
| R110 | 2200Ω | 2 | URF-1057 | BT-2-2200 | Isolation 20% |
| R111 | 560Ω | 7 | RRW-028 | | Filter |
| R112 | 1Ω | 7 | RRW-034 | BW-1-1 | Focus Coil Shunt |
| | | | | | Filament Dropping |

Note 1. Some models have this resistor shorted out.

TRANSFORMER (POWER)

| ITEM No. | RATING | | | | REPLACEMENT DATA | | | |
|----------|---------------|--------------------------------|---------------|----------------|------------------|------------------|------------------|----------------|
| | PRI. | SEC. 1 | SEC. 2 | SEC. 3 | G. E. PART No. | STANCOR PART No. | CHICAGO PART No. | MERIT PART No. |
| T1 | 117VAC @ 2.1A | 750VCT @ .130 ADC & @ .115 ADC | 5VAC @ 3A | 5VAC @ 2A | RTP-300 | | | |
| | | | SEC. 4 | SEC. 5 | | | | |
| | | | 6.3VAC @ 2.6A | 12.6VAC @ 3.6A | | | | |

TRANSFORMER (SWEEP CIRCUITS)

| ITEM No. | RATING | | REPLACEMENT DATA | | | | NOTES |
|----------|---------------|--------|------------------|------------------|------------------|----------------|-------------------------|
| | DC RESISTANCE | | G. E. PART No. | STANCOR PART No. | CHICAGO PART No. | MERIT PART No. | |
| T2 | 120Ω | | RTH-003 | | | | Hor. Block. Osc. Trans. |
| | Tap. @ | | | | | | |
| | 35Ω | | | | | | |
| T3 | 38Ω | | RTO-067 | | | | Hor. Output Trans. |
| | | SEC. 1 | | | | | |
| | | 230Ω | | | | | |
| | | SEC. 2 | | | | | |
| | | 1Ω | | | | | |
| | | SEC. 3 | | | | | |
| | | 0Ω | | | | | |
| T4 | 730Ω | 11Ω | RTO-053 | A-8115 | TSO-1 | A-3055 | Vert. Output Trans. |
| T5A | 15Ω | | RLD-006 | | | | Hor. Deflection Yoke |
| T6 | 28Ω | | | | | | Vert. Deflection Yoke |
| | 1000Ω | | RLF-013 | | | | Focus Coil |

TRANSFORMER (AUDIO OUTPUT)

| ITEM No. | RATING | | | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|-----------|---------|------|------|------------------|------------------|------------------|----------------|--------------------|
| | IMPEDANCE | DC RES. | PRI. | SEC. | G. E. PART No. | STANCOR PART No. | CHICAGO PART No. | MERIT PART No. | |
| T7 | 7400Ω | 3.2Ω | 580Ω | .6Ω | RTO-052 | A-3878 | RO-13 | A-2902 | |

SPEAKER

| ITEM No. | RATING | | REPLACEMENT DATA | | | NOTES |
|----------|------------|------------|------------------|-----------------|---------------|---|
| | FIELD RES. | V. C. IMP. | G. E. PART No. | JENSEN PART No. | QUAM PART No. | |
| SP1A | PM | 3.2Ω | ROP-018# | ST-120* | 10A31 | * Replace output trans. to match 6-8Ω voice coil. |
| B | PM | 3.2Ω | UOP-8670 | MOD.P10-S | | # Used in early production. |
| | | | | | | Ø Used in late production. |
| SP2A | CONE DIA. | V. C. DIA. | | | | |
| B | 9 3/4" | 3/4" | | | | |
| B | 7 5/8" | | | | | |

GENERAL ELECTRIC
MODEL 811

PARTS LIST AND DESCRIPTIONS (Continued)

FILTER CHOKE

| ITEM No. | RATINGS | | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|----------------------|------------------|---------------------------------|------------------|------------------|------------------|----------------|--------------------|
| | TOTAL DIRECT CURRENT | D. C. RESISTANCE | INDUCTANCE (0 CURRENT 1000 cps) | G. E. PART No. | STANCOR PART No. | CHICAGO PART No. | MERIT PART No. | |
| L1 | .130A | 160Ω | 7 Henry | RLI-059 | C-2309 | R-8120 | C-2993 | |
| L2 | .115A | 160Ω | 7 Henry | RLI-060 | C-2309 | R-8120 | C-2993 | |

COILS (RF-IF)

| ITEM No. | USE | DC RES. | | REPLACEMENT DATA | | NOTES |
|----------|-----------------------------------|---------|------|------------------|-------------------|-------------------------------|
| | | PRI. | SEC. | G. E. PART No. | MEISSNER PART No. | |
| L3 | Ant. Input | 0Ω | 0Ω | RLA-031 | | |
| L4 | RF Choke | 0Ω | | RLI-006 | | |
| L5 | RF Choke | .2Ω | | RLI-003 | | |
| L6 | RF Choke | 0Ω | | RLI-006 | | |
| L7 | RF Plate, Conv. Grid & Osc. Coil | 0Ω | | RLC-069 | | Channel 2 |
| L8 | RF Plate, Conv. Grid & Osc. Coils | 0Ω | | RLC-070 | | Channel 3 |
| L9 | RF Plate, Conv. Grid & Osc. Coils | 0Ω | | RLC-071 | | Channel 4 |
| L10 | RF Plate, Conv. Grid & Osc. Coils | 0Ω | | RLC-072 | | Channel 5 |
| L11 | RF Plate, Conv. Grid & Osc. Coils | 0Ω | | RLC-073 | | Channel 6 |
| L12 | RF Plate & Conv. Grid Coils | 0Ω | | RLA-032 | | Channel 7 |
| L13 | RF Plate & Conv. Grid Coils | 0Ω | | RLA-032 | | Channel 8 -9 |
| L14 | RF Plate & Conv. Grid Coils | 0Ω | | RLA-032 | | Channel 10-11 |
| L15 | RF Plate & Conv. Grid Coils | 0Ω | | RLA-032 | | Channel 12-13 |
| L16 | Osc. Coil | 0Ω | | RLC-074 | | Channel 7 |
| L17 | Osc. Coil | 0Ω | | RLC-075 | | Channel 8-9 |
| L18 | Osc. Coil | 0Ω | | RLC-076 | | Channel 10-11 |
| L19 | Osc. Coil | 0Ω | | RLC-077 | | Channel 12-13 |
| L20 | RF Choke | 1.2Ω | | RLI-032 | | |
| L21 | 1st Video | | | | | |
| L22 | RF Choke | .5Ω CT | | RTL-081 | | Video Carrier-Set Trap |
| L23 | 2nd Video | .2Ω | | RLI-005 | | |
| L24 | Sound Take-Off Coil | .5Ω CT | | RTL-082 | | |
| L25 | 3rd Video | .5Ω CT | | RLI-061 | | |
| L26 | 4th Video | .5Ω CT | | RTL-083 | | |
| L27 | Peaking | .6Ω CT | | RTL-084 | | Inductance-165 Microhenries |
| L28 | Peaking | 6.3Ω | | RLI-038 | | |
| L29 | Peaking | 7Ω | | RLI-038 | | |
| L30 | Peaking | 7Ω | | RLI-038 | | |
| L31 | 1st Sound | | | RLI-038 | | |
| L32 | 2nd Sound | .2Ω | .2Ω | RTL-090 | | Not used in early productions |
| L33 | Sound Disc. XFMR | .2Ω | .2Ω | RTL-085 | | |
| L34 | Horiz. Size Control | .2Ω | .2Ω | RTD-007 | | |
| L35 | Horiz. Linearity Control | 2.5Ω | 11Ω | RLD-004 | | |
| L36 | Fil. Choke | .30Ω | | RLD-005 | | |

MISCELLANEOUS

| ITEM No. | PART NAME | G. E. PART No. | NOTES |
|----------|------------------------|----------------|---|
| M2 | RF Coil & Switch Assy | RJX-023 | |
| | Trimmer | RCY-045 | Horiz. Freq. 25-150M μ F |
| | Trimmer | RCY-045 | Horiz. Drive 25-150M μ F |
| | Trimmer | RCY-047 | Sound IF Take-Off Trap, 1.5-15M μ F |
| | Trimmer | RCY-047 | Video Carrier-Set Trap, 1.5-15M μ F |
| | Cabinet | RAV-059 | |
| | Safety Glass | RDW-010 | |
| | Tuning Slug | REI-014 | RF and Conv. Slugs for L12, 13, 14, and 15 |
| | Core | REI-015 | Adjustments Core for T2 |
| | Core | REI-016 | Tuning Core for L21, 23, 25, 26 and L32 |
| | Core | REI-017 | Adjustment Core for L35 |
| | Core | REI-018 | Adjustment Core for L34 |
| | Core | REI-019 | Tuning Core for L33 |
| | Antenna Terminal Strip | RJB-020 | |
| | Receptacle | RJJ-007 | AC Power |
| | Socket | RJS-119 | Picture Tube |
| | Knob | RDK-012 | Vert. Speed, and Contrast Controls |
| | Knob | RDK-104 | Horiz. Speed, and Brightness Controls |
| | Knob | RDK-139 | Focus, and Tuning Control |
| | Knob | RDK-140 | On-Off Switch, and Volume, Channel Selector Controls. |

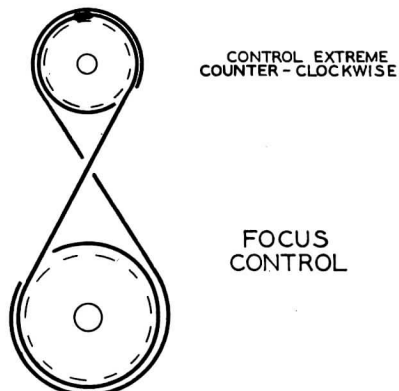
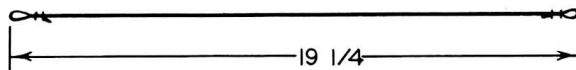
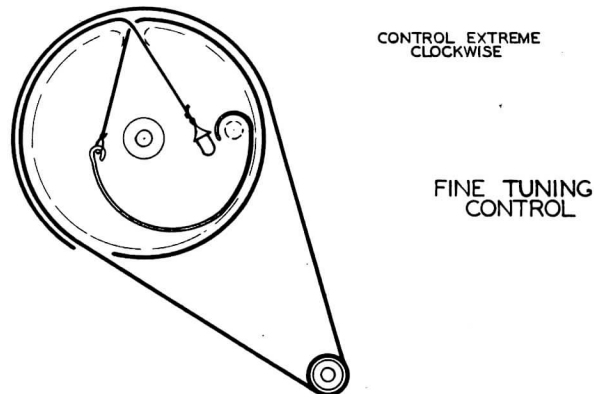
CENTERING ADJUSTMENTS

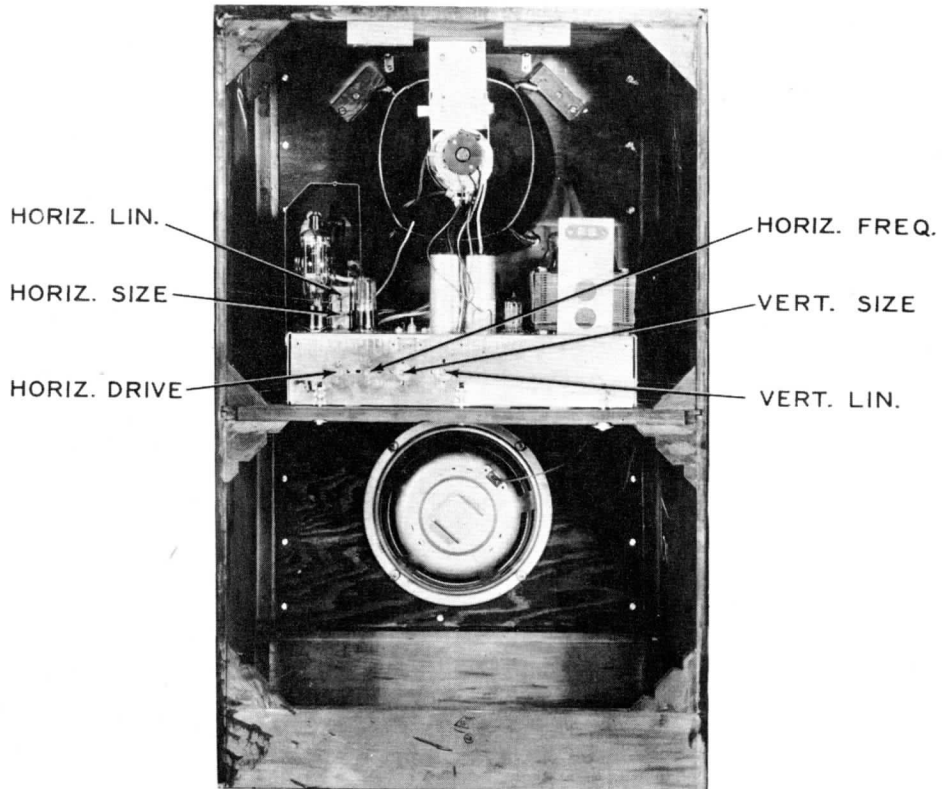
Centering adjustments are made by means of two circular magnets mounted on the focus and deflection assembly. The assembly may be turned the necessary direction, and the amount of correction may be changed by rotating the large magnet with respect to the smaller one and by sliding the two magnets together or apart. Maximum effect is with the two magnets close together and aligned. Minimum effect is achieved by turning the large magnet to oppose the small one.

HORIZONTAL LINEARITY ADJUSTMENT

The horizontal drive control should first be set to minimum capacity. With the horizontal size control at approximately its correct position adjust the horizontal linearity control for best linearity. If this does not give good linearity turn the horizontal drive control slightly clockwise and repeat the adjustments. If there is a foldover of the pattern, turn the horizontal drive control clockwise until the fold disappears.

DIAL CORD STRINGING





CABINET-REAR VIEW