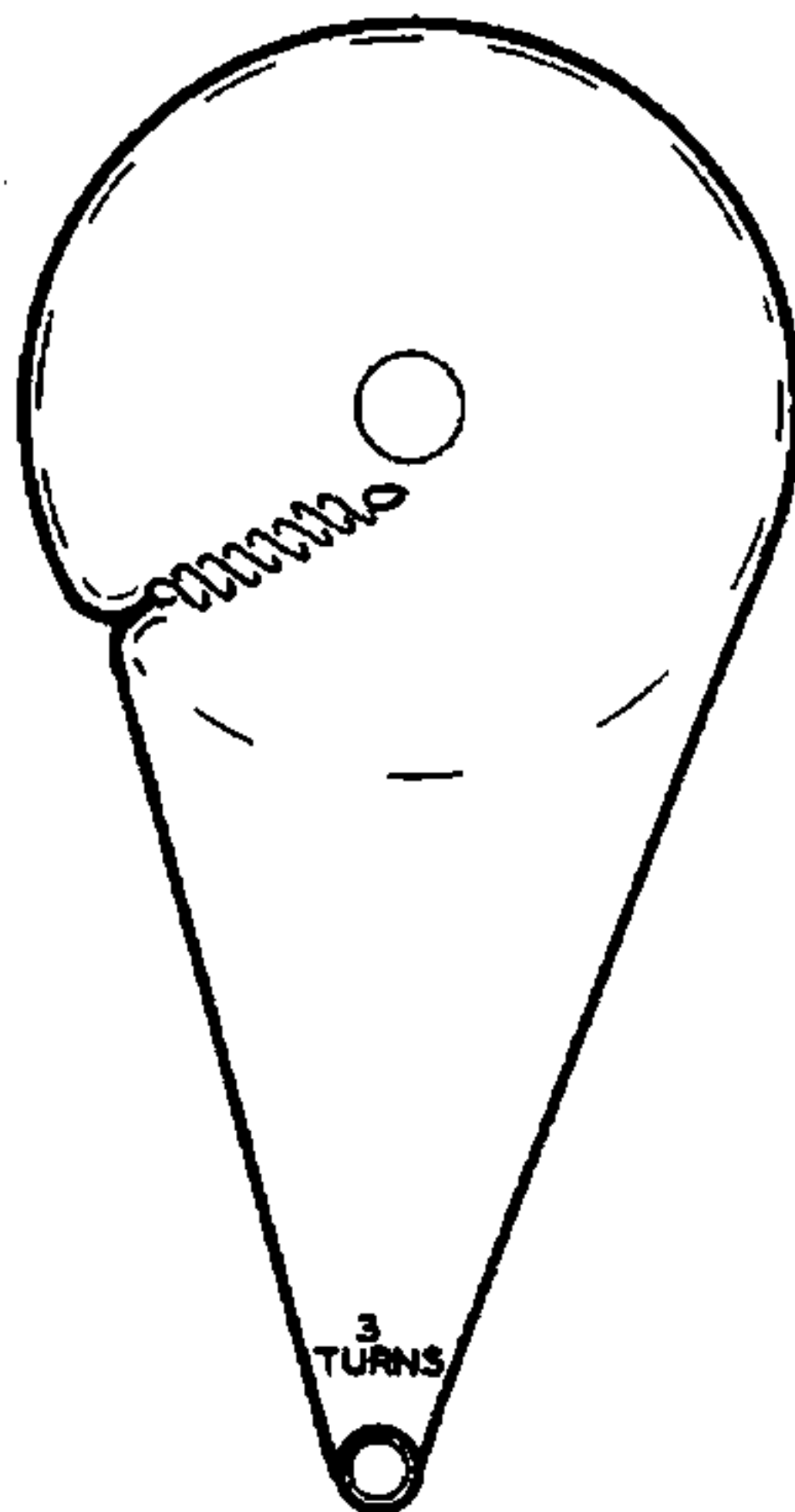




FADA MODEL 790

| | | | |
|------------------------|---|------------|--------------------------|
| TRADE NAME | Fada, Model 790 | | |
| MANUFACTURER | Fada Radio & Elect. Co., Inc., 525 Main St., Belleville, New Jersey | | |
| TYPE SET | AC-DC Operated AM-FM Superheterodyne Receiver with Loop Antenna | | |
| TUBES(EIGHT) | Types 12AT7 FM RF-Mixer, 6BE6 AM Converter-FM Osc., 6BA6 1st IF Amp., 6BA6 FM 2nd IF Amp., 6AL5 Ratio Det., 6AT6 DET-AVC-AF, 25L6GT Power Output, 25Z6GT Rectifier. | | |
| POWER SUPPLY | 105-125 Volts AC-DC | RATING | .42 Amp., @ 117 Volts AC |
| TUNING RANGE-BROADCAST | 535-1630KC | FREQ. MOD. | 87.5-108.5MC |

TUNING GANG FULLY CLOSED



DIAL CORD DRIVE

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

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ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To set pointer turn tuning cap fully closed and set pointer parallel with base of dial.
 Use isolation transformer if available. If not, connect a .1MFD capacitor in series with low side of signal generator and chassis.
 Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

AM ALIGNMENT

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POS. | RADIO DIAL SETTING | OUTPUT METER | ADJUST | REMARKS |
|---------------|---|----------------------------|------------------|--------------------------|-------------------|----------------|---|
| 1. .1MFD | High side to pin 7 (Grid) 6BE6 (V2). Low side to chassis. | 455KC | BC (center pos.) | Tuning cap fully open. | Across voice coil | A1,A2 A3,A4 | Adjust for maximum output. If isolation transformer is not used reduce dummy antenna to .001MFD to reduce hum modulation. |
| 2. 200MFD | High side to terminal 4 of antenna terminal strip. Low side to chassis. | 1630KC | " | " | " | A5 | Adjust for maximum output. |
| 3. 200MFD | " | 1500KC | " | Tune for maximum signal. | " | A8 | Adjust for maximum output. Check Tracking at 600KC. Bend plates of RF Section of tuning cap. if necessary. |

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM

Connect two matched 100K Ω (\pm 5%) resistor in series from pin 2 of 6AL5 (V5) to chassis. The junction of these two resistors is point $\text{\textcircled{B}}$ as designated on schematic.

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POS. | RADIO DIAL SETTING | CONNECT VTVM | ADJUST | REMARKS |
|---------------|--|----------------------------|-----------------------|--------------------|---|----------|---|
| 4. .01MFD | High side to pin 1 (Grid) 6BA6 (V4). Low side to chassis. | 10.7MC | FM (fully clockwise). | Midscale | DC Probe to Point $\text{\textcircled{B}}$ Common to chassis. | A7 | Adjust for maximum deflection. |
| 5. .01MFD | High side to pin 1 (Grid) 6BA6 (V3). Low side to chassis. | " | " | " | " | A8 | Connect shunt of 680 Ω (carbon) across primary of L13 and adjust A8 for maximum deflection. |
| 6. .01MFD | " | " | " | " | " | A9 | Reconnect shunt across the secondary and adjust A9 for maximum deflection. |
| 7. .01MFD | High side to pin 2 (Grid) 12AT7 (V1). Low side to chassis. | " | " | " | " | A10, All | Adjust for maximum deflection. Retouch adjustment of A7. |
| 8. .01MFD | " | " | " | " | DC Probe to Point $\text{\textcircled{C}}$ Common to Point $\text{\textcircled{B}}$ | A12 | Adjust for zero reading. A positive & negative reading is obtained on either side of the correct setting. |

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE

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

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | MARKER GENERATOR FREQUENCY | CHANNEL | CONNECT SCOPE | ADJUST | REMARKS |
|---------------|---|----------------------------|----------------------------|---------|---|--------------------------|---|
| 4. .01MFD | High side to pin 2 (Grid) 12AT7 (V1). Low side to chassis | 10.7MC (450KC Sweep) | 10.7MC | FM | Vert. Amp. to Point $\text{\textcircled{C}}$ Low side to chassis. | A7, A8 A9,A10, A11 | Disconnect stabilizer capacitor (C3). Adjust A7 thru A11 for maximum amplitude & symmetry as per Fig. 1. |
| 5. .01MFD | " | " | " | " | Vert. Amp. to Point $\text{\textcircled{C}}$ Low side to chassis. | A12 | Reconnect stabilizer cap. Adjust A12 for correct crossover point as per Fig 2. Slightly retouch A7 for maximum amplitude and straightness of crossover lines. Continue with step 9. |

FM RF ALIGNMENT

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POS. | RADIO DIAL SETTING | CONNECT VTVM | ADJUST | REMARKS |
|---------------------------------|---|----------------------------|------------------|--------------------|---|--------|---|
| 9. Two 150 Ω carbon res. | Insert 150 Ω resistor in series with each lead and connect across terminals 1 & 2 of antenna terminal strip. | 106MC | " | 106MC | DC Probe to Point $\text{\textcircled{D}}$ Common to chassis. | A13 | Starting from minimum capacity, adjust A13 for maximum deflection at first peak obtained. |
| 10. " | " | 88MC | " | 88MC | " | A14 | Adjust for maximum deflection. |

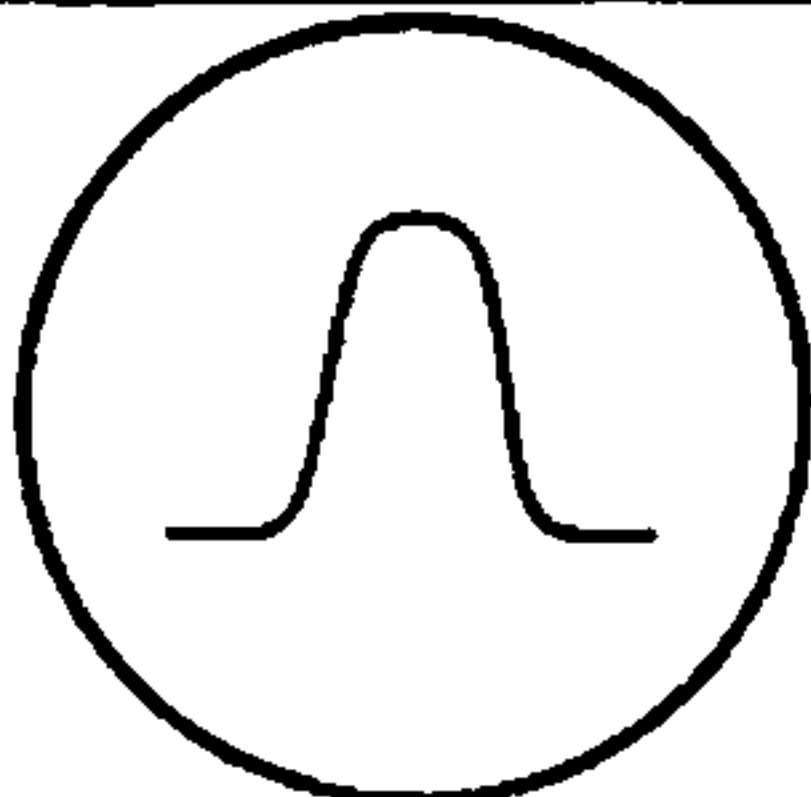


FIG. 1

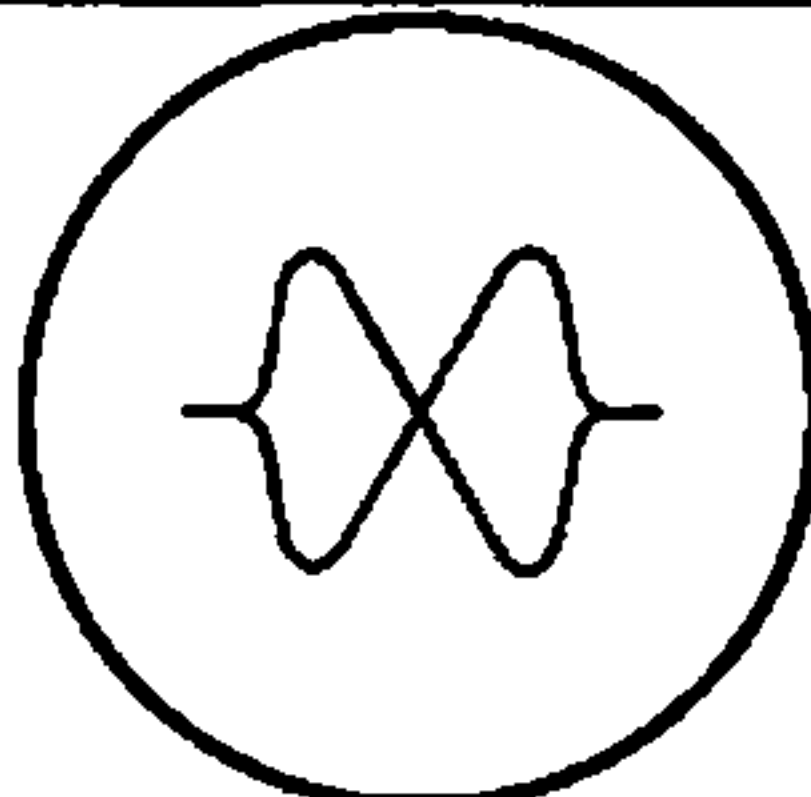


FIG. 2

PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

| ITEM No. | USE | REPLACEMENT DATA | | RMA BASE TYPE | INSTALLATION NOTES |
|----------|-----------------------|------------------|----------------------|---------------|--------------------|
| | | FADA PART No. | STANDARD REPLACEMENT | | |
| V1 | FM RF Amp.- Mixer | 12AT7 | 12AT7 | | |
| V2 | AM Converter -FM Osc. | 6BE6 | 6BE6 | 7CH | |
| V3 | 1ST IF Amp. | 6BA6 | 6BA6 | 7BK | |
| V4 | FM 2nd IF Amp. | 6BA6 | 6BA6 | 7BK | |
| V5 | Ratio Detector | 6AL5 | 6AL5 | 6BT | |
| V6 | DEP-AVC-AF | 6AT6 | 6AT6 | 7BT | |
| V7 | Power Output | 25L6GT | 25L6GT | 7AC | |
| V8 | Rectifier | 25Z6GT | 25Z6GT | 7Q | |

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 | FADA PART No. | AEROVOX PART No. | CORNELL-DUBILIER PART No. | ERIE PART No. | SOLAR PART No. | | SPRAGUE PART No. |
| C1A | 30 | 150 | 22.36 | AF888D | UP44415 | | DY-3X40 | EL-340 | Filter |
| B | 40 | 150 | | | | | -150 | | ■ Filter |
| C | 40 | 150 | | | | | | | ▲ Filter |
| C2 | 30 | 150 | 32.52 | PRS150/30 | BR3015 | | M-30-150 | UT-301 | Decoupling |
| C3 | 4 | 50 | 22.53 | PRS150/4 | BR415 | | M-4-150 | TA-55 | Stabilizing Cap. |
| C4 | 25 | 25 | 22.31 | PRS25/25 | BR252A | | M-25-25 | TA-25 | Output Cath. Bypass |
| C5 | .01 | 400 | 12.6 | P488-01 | GT481 | GP2-335-01 | ST-4-01 | TM-11 | Ant. Isolation |
| C6 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | AVC Filter Note |
| C7 | 100 | | 17.21 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | Ant. Coupling |
| C8 | 500 | | 17.62 | 1468-0005 | 5W5T5 | GP2K-500 | MO.5-35 | 1FM-35 | RF Cath Bypass |
| C9 | 5000 | | 17.45 | 1467-001 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | AVC Filter |
| C10 | 500 | | 17.62 | 1468-0005 | 5W5T5 | GP2K-500 | MO.5-35 | 1FM-35 | AVC Filter |
| C11 | 1500 | | 17.45 | 1467-0015 | 1W5D15 | GP2L-0015 | MW.5-215 | 1FM-215 | RF Bypass |
| C12 | 100 | | 17.47 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | RF Coupling |
| C13 | 100 | | 17.47 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | RF Coupling |
| C14 | 100 | | 17.21 | 1468-0001 | 5W5T1 | GP1K-100 | MO.5-31 | 1FM-31 | Ant. Coupling |
| C15 | 1500 | | 17.45 | 1467-0015 | 1W5D15 | GP2L-0015 | MW.5-215 | 1FM-215 | Conv. Fil. Bypass |
| C16 | 10 | 500 | 17.28 | 1469-00001 | 5R5Q1 | NPOK-10 | MOS.5-41 | MS-41 | Fixed Trimmer |
| C17 | 2 | | 17.59 | | | | | | FM Osc. Coupling |
| C18 | 30 | | 17.61 | 1468-000025 | 5W5Q3 | NPOL-33 | MO.5-43 | MS-43 | Osc. Grid Cap |
| C19 | 5 | | 17.79 | 1468-000005 | 5W5V5 | NPOK-5 | MO.5-55 | MS-55 | FM Osc. Feed Back |
| C20 | 2 | | 17.78 | | | | | | FM Osc. Feed Back |
| C21 | 1500 | | 17.45 | 1467-0015 | 1W5D15 | GP2L-0015 | MW.5-215 | 1FM-215 | Osc. Anode Bypass |
| C22 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-215 | 1FM-25 | Conv. Decoupling |
| C23 | 10000 | | 17.80 | P4C8-01 | GT481 | GP2-335-01 | ST-4-01 | TM-11 | Conv. Decoupling |
| C24 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | Conv. Fil. Bypass |
| C25 | 10000 | | 17.80 | P488-01 | GT481 | GP2-335-01 | ST-4-01 | TM-11 | AVC Filter |
| C26 | 10000 | | 17.80 | P488-01 | GT481 | GP2-335-01 | ST-4-01 | TM-11 | 1st IF Decoupling |
| C27 | 250 | | 17.81 | 1468-00025 | 5W5T25 | GP2K-250 | MO.5-325 | 1FM-325 | Diode Filter |
| C28 | .05 | 200 | 12.11 | P288-05 | GT285 | | ST-4-05 | TM-15 | AVC Filter |
| C29 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | 2nd IF Cath Bypass |
| C30 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | 2nd IF Fil. Bypass |
| C31 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | 2nd IF Decoupling |
| C32 | 270 | 500 | 17.57 | 1468-00025 | 5W5T5 | GP2K-250 | MO.5-325 | 1FM-325 | Diode Load Cap |
| C33 | .005 | 400 | 12.19 | P688-005 | GT6D5 | GP2M-005 | ST-6-005 | TM-25 | De-Emphasis |
| C34 | .01 | 400 | 12.6 | P488-01 | GT481 | GP2-335-01 | ST-4-01 | TM-11 | Audio Coupling |
| C35 | 1500 | | 17.45 | 1467-0015 | 1W5T15 | GP2L-0015 | MW.5-215 | 1FM-215 | RF Bypass |
| C36 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | AVC Filter |
| C37 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | FM Det. Fil. Bypass |
| C38 | .002 | 600 | 12.1 | P688-002 | GT6D2 | GP2M-002 | ST-6-002 | TM-22 | Phono Isolation |
| C39 | .005 | 400 | 12.19 | P688-005 | GT6D5 | GP2M-005 | ST-6-005 | TM-25 | Audio Coupling |
| C40 | 250 | | 17.81 | 1468-00025 | 5W5T25 | GP2K-250 | MO.5-325 | 1FM-325 | AF Plate Bypass |
| C41 | .005 | 400 | 12.19 | P688-005 | GT6D5 | GP2M-005 | ST-6-005 | TM-25 | Tone Comp. |
| C42 | .01 | 400 | 12.6 | P488-01 | GT481 | GP2-335-01 | ST-4-01 | TM-11 | Audio Coupling |
| C43 | .05 | 400 | 12.12 | P488-05 | GT485 | | ST-4-05 | TM-15 | RF Bypass |
| C44 | .01 | 400 | 12.6 | P488-01 | GT481 | GP2-335-01 | ST-4-01 | TM-11 | Output Plate Bypass |
| C45 | .05 | 400 | 12.12 | P488-05 | GT485 | | ST-4-05 | TM-15 | Line Filter |
| C46 | 5000 | | 17.44 | 1467-005 | 1D5D5 | GP2M-005 | MW.5-25 | 1FM-25 | Ballast Bypass |

NOTE - Not Used In All Models.

PARTS LIST AND DESCRIPTIONS (Continued)

R F COILS

| ITEM No. | USE | DC RES. | | REPLACEMENT DATA | | NOTES |
|----------|----------------|---------|------|------------------|-------------------|--|
| | | PRI. | SEC. | FADA PART No. | MEISSNER PART No. | |
| | | | | | | |
| L1 | Loop Ant. | 1.2Ω | | 37.193 | | 3 Turns Around 22Ω Resistor 8 Turns Around 1500Ω Resistor |
| L2 | RF Choke | 0Ω | | 37.203 | | |
| L3 | RF Choke | 0Ω | | 37.206 | | |
| L4 | RF Plate Choke | 1.5Ω | | 37.197 | | |
| L5 | FM RF Coil | 0Ω | | 37.195 | | 3 Turns Around 820Ω Resistor |
| L6 | RF Plate Choke | 0Ω | | 32.205 | | |
| L7 | AM Osc. Coil | 4.8Ω | | 37.194 | 14-1060 | |
| L8 | FM Osc. Coil | 0Ω | | 37.195 | | |
| L9 | RF Choke | 1.5Ω | | 37.197 | | 3 Turns Around 22Ω Resistor |
| L10 | RF Choke | 0Ω | | 37.204 | | |
| L11 | FM 1st IF | .6Ω | .6Ω | 37.112 | | |
| L12 | AM 1st IF | 15Ω | 15Ω | 37.138 | 16-6678 | |
| L13 | FM 2nd IF | .6Ω | .6Ω | 37.132 | | |
| L14 | AM 2nd IF | 15Ω | 15Ω | 37.138 | 16-6678 | |
| L15 | Ratio Det. | .8Ω | 1Ω | 37.116 | | |
| L16 | RF Choke | 0Ω | | 37.134 | | |
| L17 | RF Choke | 0Ω | | 37.134 | | |
| L18 | Fl. Choke | 0Ω | | 37.134 | | |
| L19 | Fl. Choke | 0Ω | | 37.134 | | |

DIAL LIGHTS

| ITEM No. | BASE TYPE | VOLTS | AMPS. | BEAD COLOR | REPLACEMENT DATA | | NOTES |
|----------|-----------|-------|-------|------------|------------------|--|----------|
| | | | | | FADA PART No. | | |
| M1 | Bayonet | 6-8V | 0.25A | Blue | | | Type #44 |

MISCELLANEOUS

| ITEM No. | PART NAME | FADA PART No. | NOTES |
|----------|--------------|---------------|------------------------------|
| M2 | Switch | 47.15 | Band (30-537MF, 21-202MF) |
| M3 | Ballast Tube | 117.24 | |
| M4 | Tuning Gang | 27.37 | |
| | Dial Scale | 77.127 | |
| | Dial Pointer | 77.126 | |

PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS

| ITEM No. | RATING | | REPLACEMENT DATA | | | INSTALLATION NOTES |
|----------|------------|-------|------------------|--------------|--------------------|--|
| | RESISTANCE | WATTS | FADA PART No. | IRC PART No. | CLAROSTAT PART No. | |
| R1A | 500KΩ | 1/2 | 52.30 | D13-133 | M-60-Z | Volume control Attach to R1A per instr. |
| B | Shaft | | Not Req. | A | Not Req. | |
| R2A | 500KΩ | 1/2 | 57.5 | D13-133 | M-60-Z | Tone control Attach to R2A per instr. Attach to R2A per instr. |
| B | Shaft | | Not Req. | A | Not Req. | |
| C | Switch | | Not Req. | 41 | SW-A | |

RESISTORS

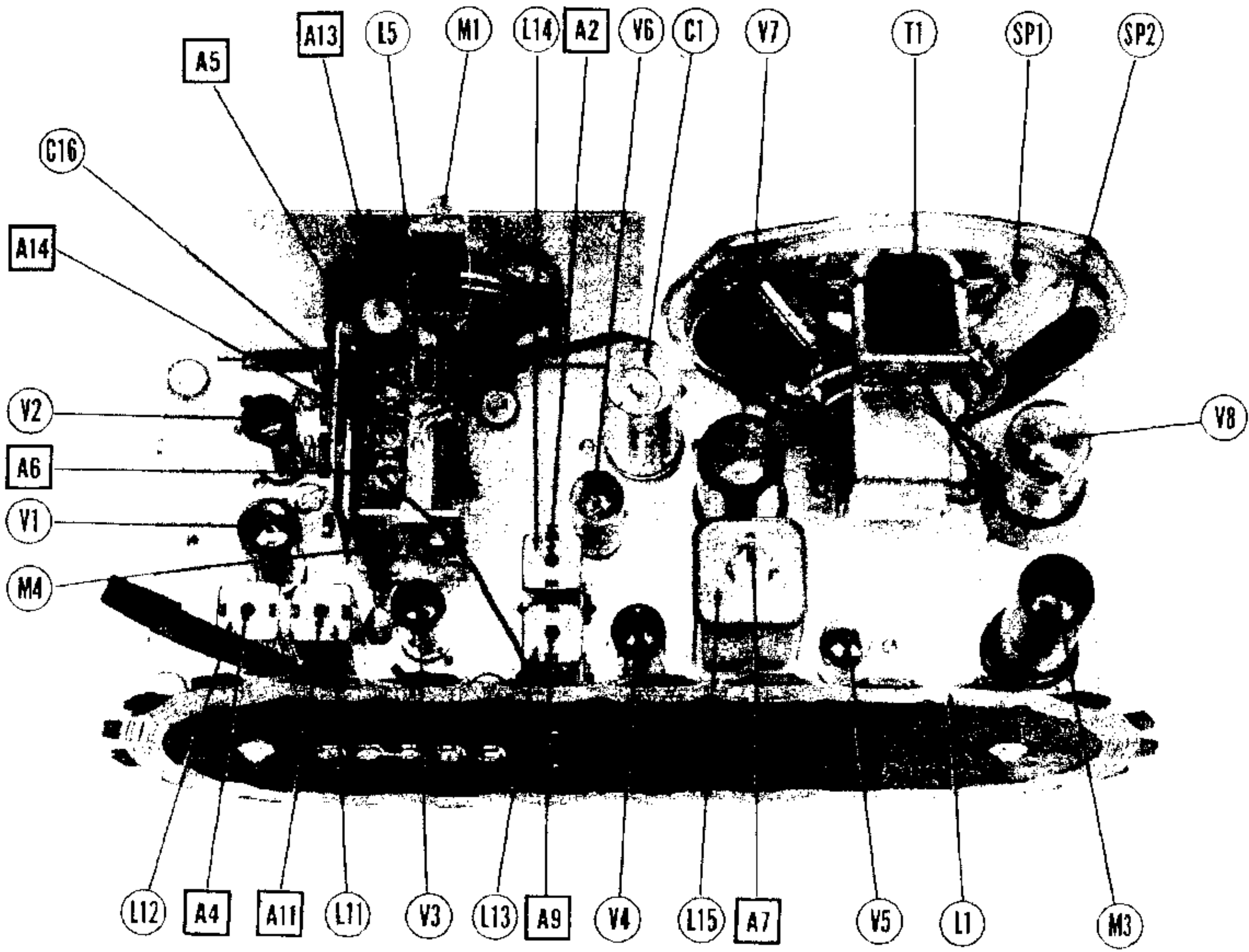
| ITEM No. | RATING | | REPLACEMENT DATA | | IDENTIFICATION CODES |
|----------|------------|-------|------------------|--------------|-----------------------|
| | RESISTANCE | WATTS | FADA PART No. | IRC PART No. | |
| R3 | 220KΩ | 1/2 | 32.18 | BTS-220K | Ext. Ant. Loading |
| R4 | 220Ω | 1/2 | 32.5 | | FM RF Cathode |
| R5 | 470KΩ | 1/2 | 32.20 | BTS-470K | FM RF Grid |
| R6 | 2.2 Meg | 1/2 | 32.24 | BTS-2.2 Meg | AVC Network |
| R7 | 470KΩ | 1/2 | 32.20 | BTS-470K | FM Mixer Grid |
| R8 | 22KΩ | 1/2 | 32.13 | BTS-22K | Osc. Grid |
| R9 | 470Ω | 1/2 | 32.30 | BTS-470 | Decoupling |
| R10 | 1000Ω | 1/2 | 32.8 | BTS-1000 | Decoupling |
| R11 | 68Ω | 1/2 | 32.1 | | IF Cathode |
| R12 | 1000Ω | 1/2 | 32.8 | BTS-1000 | IF Decoupling |
| R13 | 1 Meg | 1/2 | 32.23 | BTS-1 Meg | Diode Filter |
| R14 | 330KΩ | 1/2 | 32.19 | BTS-330K | Phono Shunt |
| R15 | 68Ω | 1/2 | 32.1 | | FM IF Cathode |
| R16 | 1000Ω | 1/2 | 32.8 | BTS-1000 | FM IF Decoupling |
| R17 | 130Ω | 1/2 | 32.3 | | Balancing |
| R18 | 15KΩ | 1/2 | 32.12 | BTS-15K | DeEmphasis |
| R19 | 27KΩ | 1/2 | 32.85 | BTS-27K | Ratio Det. Diode Load |
| R20 | 470KΩ | 1/2 | 32.20 | BTS-470K | AVC Network |
| R21 | 10 Meg | 1/2 | 32.99 | BTS-10 Meg | Delayed AVC Network |
| R22 | 10 Meg | 1/2 | 32.99 | BTS-10 Meg | AF Grid |
| R23 | 220KΩ | 1/2 | 32.18 | BTS-220K | AF Plate |
| R24 | 100Ω | 1/2 | 32.2 | | Parasitic Suppressor |
| R25 | 470KΩ | 1/2 | 32.20 | BTS-470K | Output Grid |
| R26 | 150Ω | 1/2 | 32.4 | BW-1/2-150 | Output Cathode |
| R27 | 200Ω | 1/2 | 32.40 | BW-2-220 | Filter |
| R28 | 660Ω | 1 | 32.15 | BTA-680 | Filter |

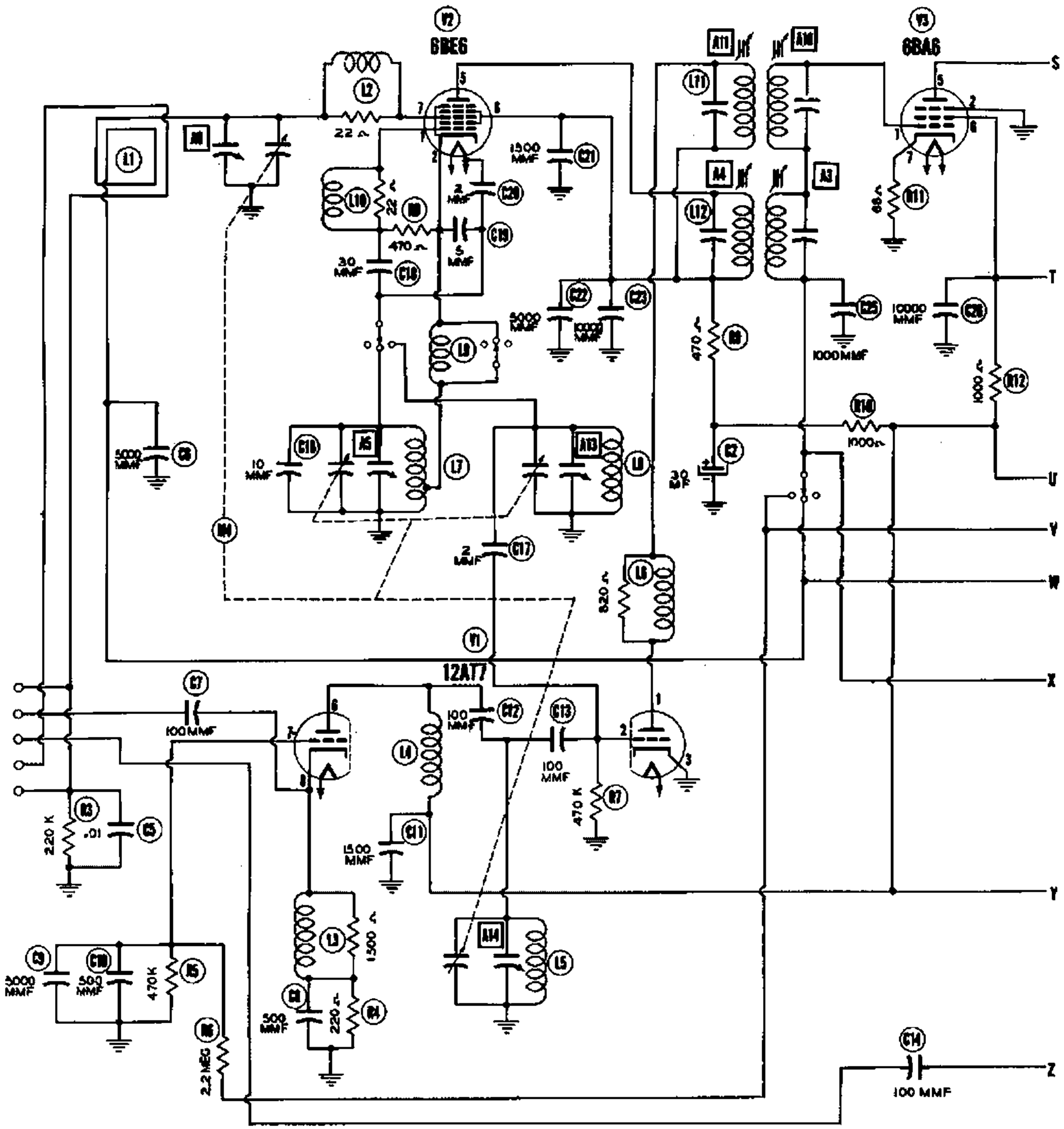
TRANSFORMER (OUTPUT)

| ITEM No. | RATING | | | | REPLACEMENT DATA | | | | INSTALLATION NOTES |
|----------|-----------|------|---------|------|------------------|------------------|------------------|----------------|--------------------|
| | IMPEDANCE | | DC RES. | | FADA PART No. | STANCOR PART No. | CHICAGO PART No. | MERIT PART No. | |
| | PRI. | SEC. | PRI. | SEC. | | | | | |
| T1 | 1900Ω | 3.5Ω | 144Ω | .4Ω | Part of 107.24 | A-3876 | RO-2 | A-2928 | |

SPEAKER

| ITEM No. | RATINGS | | REPLACEMENT DATA | | | INSTALLATION NOTES |
|----------|-----------|-----------|------------------|-----------------|---------------|---|
| | FIELD | V.C. IMP. | FADA PART No. | JENSEN PART No. | QUAM PART No. | |
| SP1 | PM | 3.5Ω | 107.24 | ST-108* | 6A1* | *Mount on original bracket or fabricate new mounting bracket. |
| SP2 | CONE DIA. | V.C. DIA. | | | | |
| | 5-7/8" | 9/16" | | | | |





IF=456 KC AM
 IF=10.7 MC FM

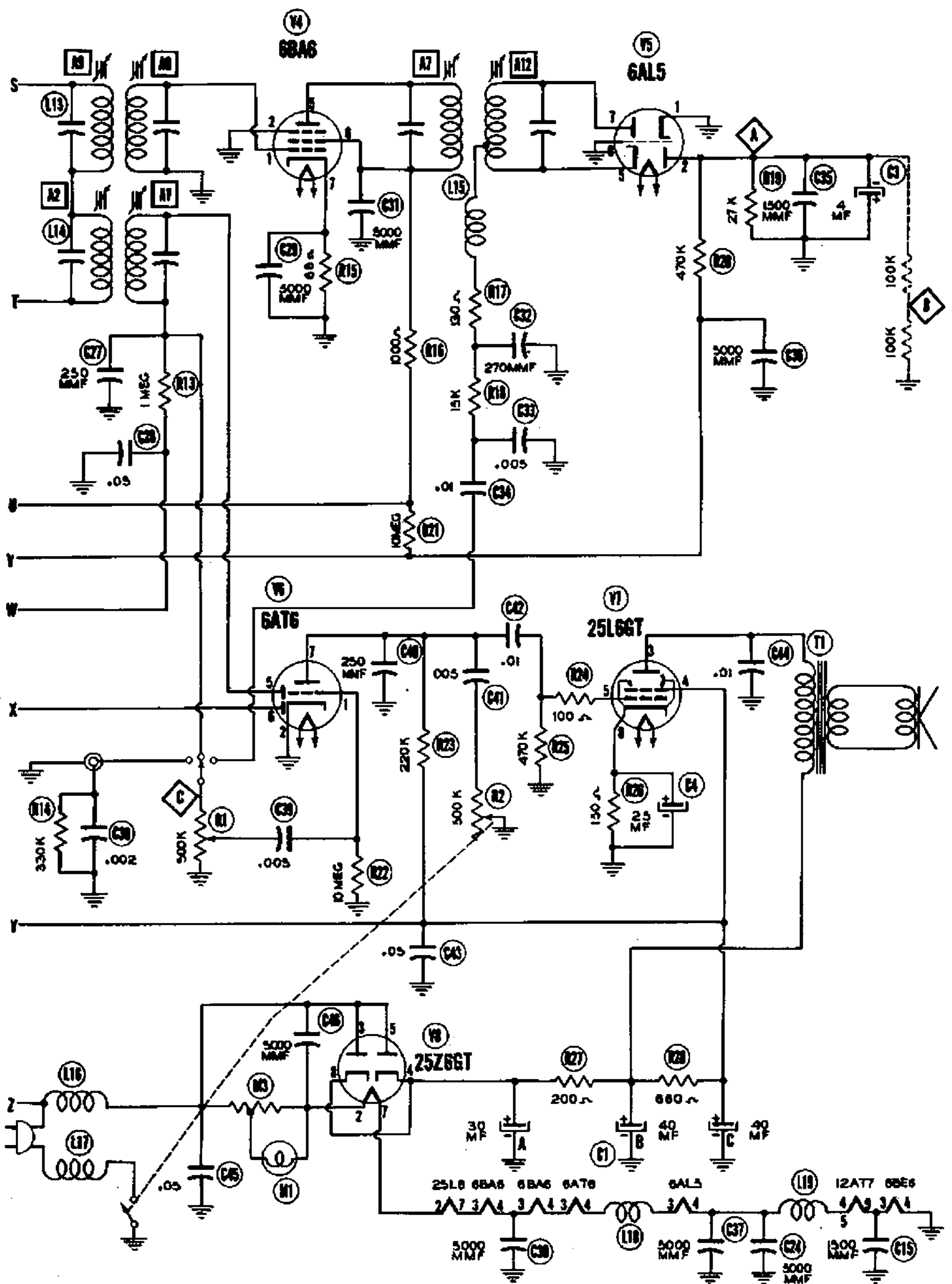
VOLTAGE READINGS

| Tube | Tube | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 | |
|------|------|--------|----------|---------|--------|--------|---------|--------|--------|--------|--------|
| + | V1 | 12AT7 | 75VDC | -.6VDC | 0V | 12VAC | 12VAC | 90VDC | 0V | -.6VDC | 6.3VAC |
| + | V2A | 6BE6 | §-2.3VDC | 0V | 0V | 6.3VAC | 75VDC | 75VDC | -.7VDC | | |
| | V2B | 6BE6 | §-9VDC | 0V | 0V | 6.3VAC | 75VDC | 75VDC | -.5VDC | | |
| | V3 | 6BA6 | -.5VDC | 0V | 32VAC | 25VAC | 80VDC | 80VDC | .7VDC | | |
| + | V4 | 6BA6 | 0V | 0V | 38VAC | 32VAC | 80VDC | 80VDC | .7VDC | | |
| + | V5 | 6AL5 | 0V | -1.4VDC | 19VAC | 12VAC | -1.4VDC | 0V | -.5VDC | | |
| | V6 | 6AT6 | -.6VDC | 0V | 19VAC | 25VAC | -.4VDC | -.5VDC | 55VDC | | |
| | V7 | 25L6GT | 0V | 60VAC | 108VDC | 90VDC | 0V | 0V | 38VAC | 5.5VDC | |
| | V8 | 25Z6GT | 0V | 85VAC | 117VAC | 130VDC | 117VAC | 0V | 60VAC | 130VDC | |

§ TAKEN WITH VACUUM TUBE VOLTMETER.

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

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of + 10% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.



RESISTANCE READINGS

| Item | Tube | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 | Pin 9 |
|------|--------|---------|-------|-------|-------|--------|---------|---------|-------|-------|
| V1 | 12AT7 | ≈2KΩ | 400KΩ | 0Ω | 7Ω | 7Ω | ≈850Ω | 400KΩ | 220Ω | 5Ω |
| V2A | 6BE6 | 22KΩ | 2Ω | 0Ω | 4Ω | ≈2.2KΩ | ≈2.2KΩ | Inf. | | |
| V2B | 6BE6 | 22KΩ | .5Ω | 0Ω | 4Ω | ≈2.2KΩ | ≈2.2KΩ | 1.4 Meg | | |
| V3 | 6BA6 | 1.4Meg | 0Ω | 16Ω | 12Ω | ≈1800Ω | ≈1800Ω | 68Ω | | |
| V4 | 6BA6 | .6Ω | 0Ω | 23Ω | 19Ω | ≈1800Ω | ≈1800Ω | 68Ω | | |
| V5 | 6AL5 | 0Ω | 27KΩ | 10Ω | 7Ω | Inf. | 0Ω | Inf. | | |
| V6 | 6AT6 | 10 Meg. | 0Ω | 12Ω | 8Ω | 470KΩ | 1.4Meg. | ≈220KΩ | | |
| V7 | 25L6GT | Inf. | 25Ω | ≈340Ω | 850Ω | 400KΩ | 400KΩ | 19Ω | 150Ω | |
| V8 | 25Z6GT | Inf. | 32Ω | 3Ω | 60KΩ | 3Ω | 0Ω | 25Ω | 60KΩ | |

* Measured from pin 8 of V8

† VOLTAGE AND RESISTANCE READINGS TAKEN IN FM POSITION.

