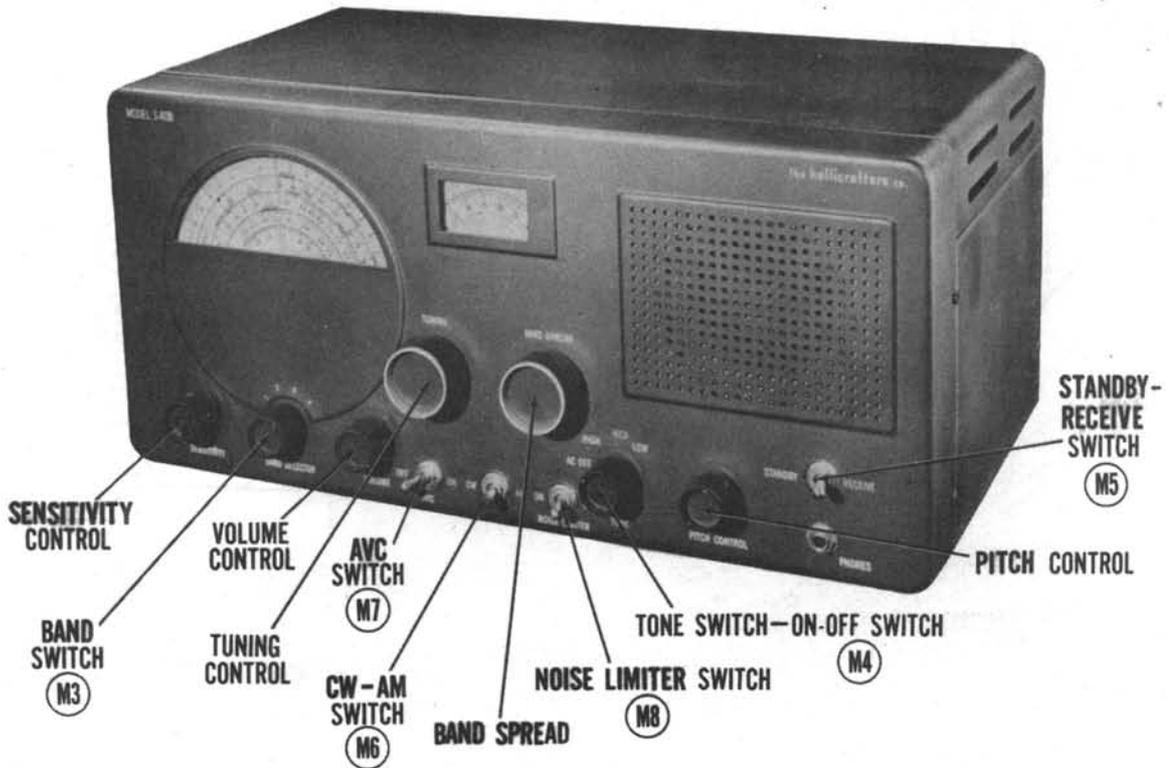




HALLICRAFTERS
MODEL S-40B



HALLICRAFTERS
MODEL S-40B

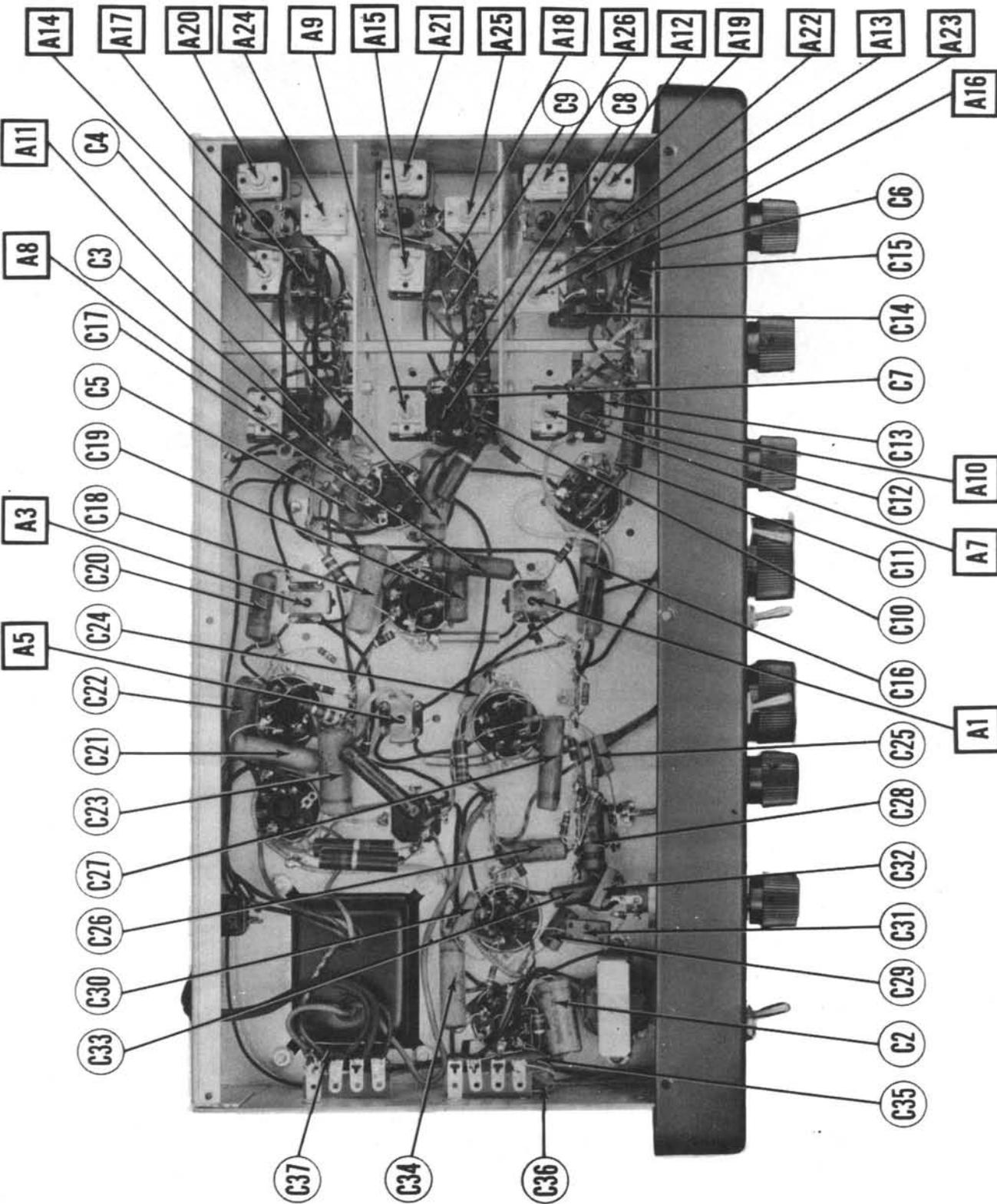
HALLICRAFTERS MODEL S-40B

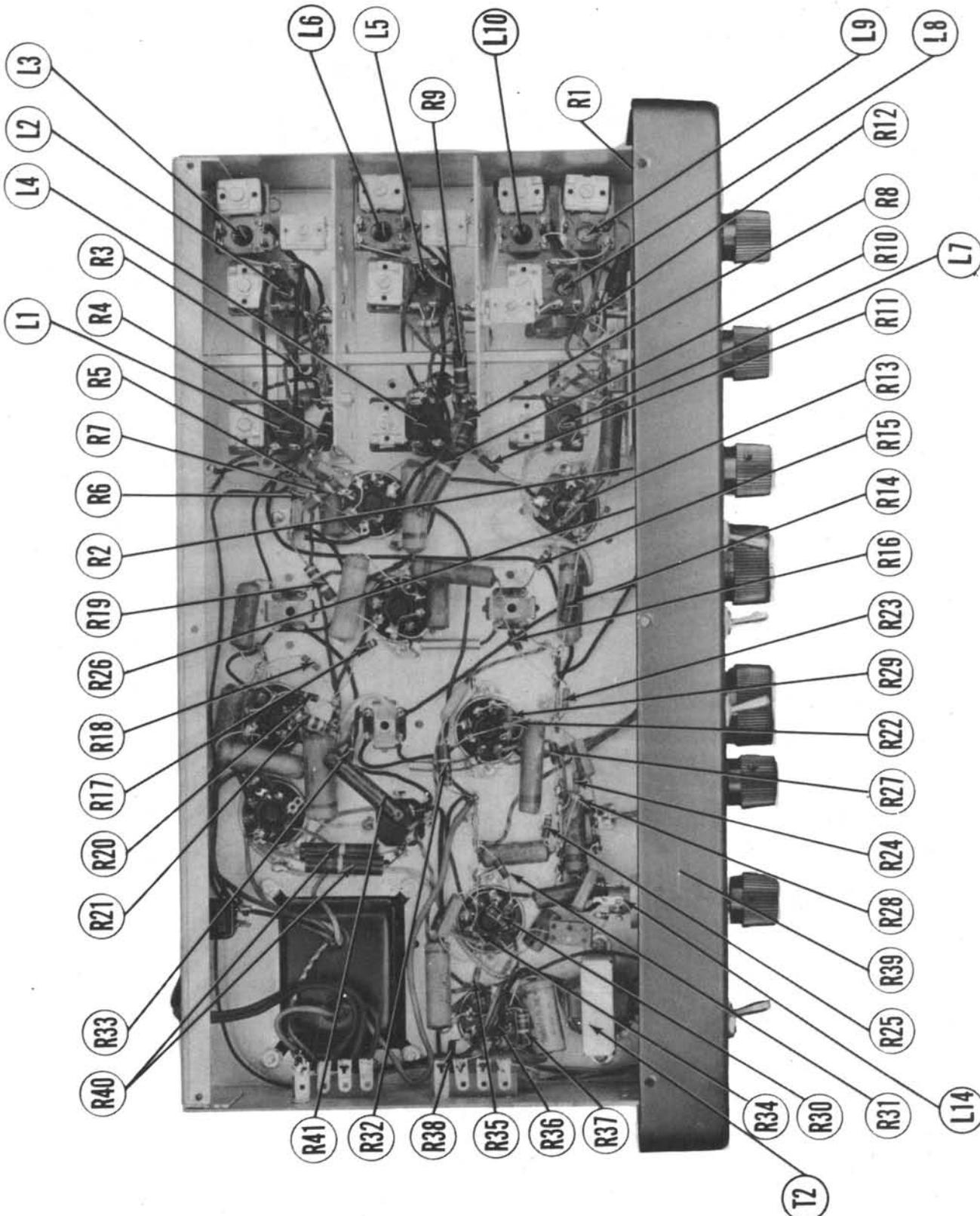
| | | |
|----------------|---|--------------------------------|
| TRADE NAME | Hallicrafters, Model S-40B | |
| MANUFACTURER | The Hallicrafters Co., 5th and Kostner Aves., Chicago 24, Illinois | |
| TYPE SET | AC Operated 4 Band Superheterodyne Communications Receiver | |
| TUBES (EIGHT) | Types 6SG7 RF Amp., 6SA7 Converter, 6SK7 1st IF Amp., 6SK7 2nd IF Amp., 6H6 Det.-AVC-ANL, 6SC7 AF Amp.-BFD, 6K6GT Power Output, 5Y3GT Rectifier | |
| POWER SUPPLY | 105-125 Volts AC | RATING .61 Amp. @ 117 Volts AC |
| TUNING RANGE - | (Band #1)540-1680KC, (Band #2)1680KC-5.4MC, (Band #3)5.3MC-15.5MC, (Band #4)15.5MC-44MC | |

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

"The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed."
"Reproduction or use, without express permission, of editorial or pictorial con-

ten, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1951 by Howard W. Sams & Co., Inc., Indianapolis, Indiana, U. S. of America. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc." Printed in U. S. of America





ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

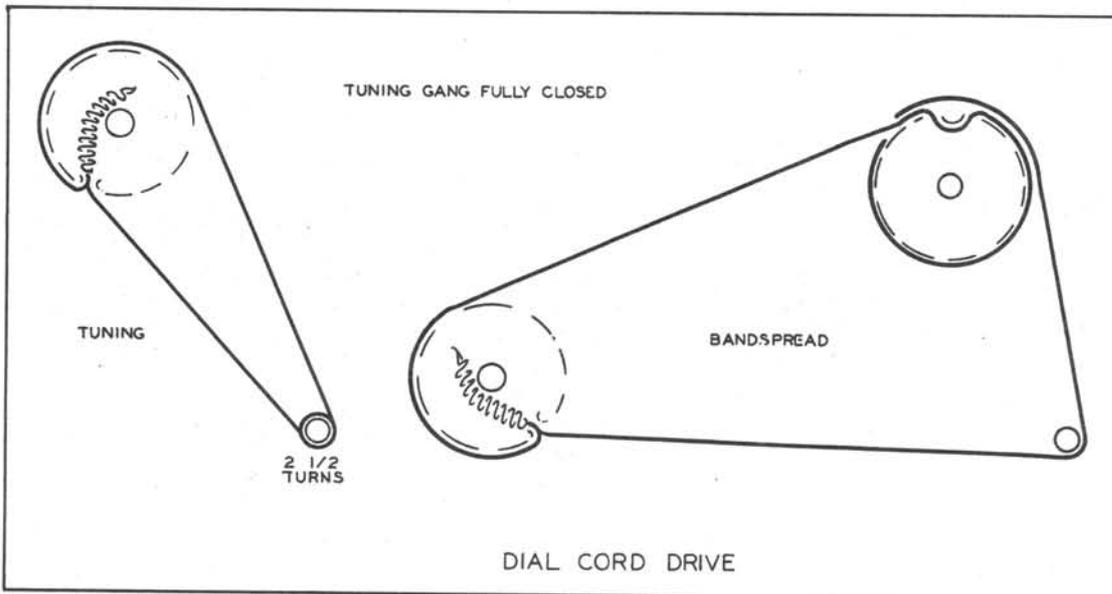
To set dial scale, turn main tuning gang fully closed and set the dial scale so the zero calibration on the logging scale is aligned with the index line on the dial covering.

To set the bandspread dial scale, turn the fine tuning gang fully open and set the zero calibration on the bandspread dial scale even with the index mark on the dial covering.

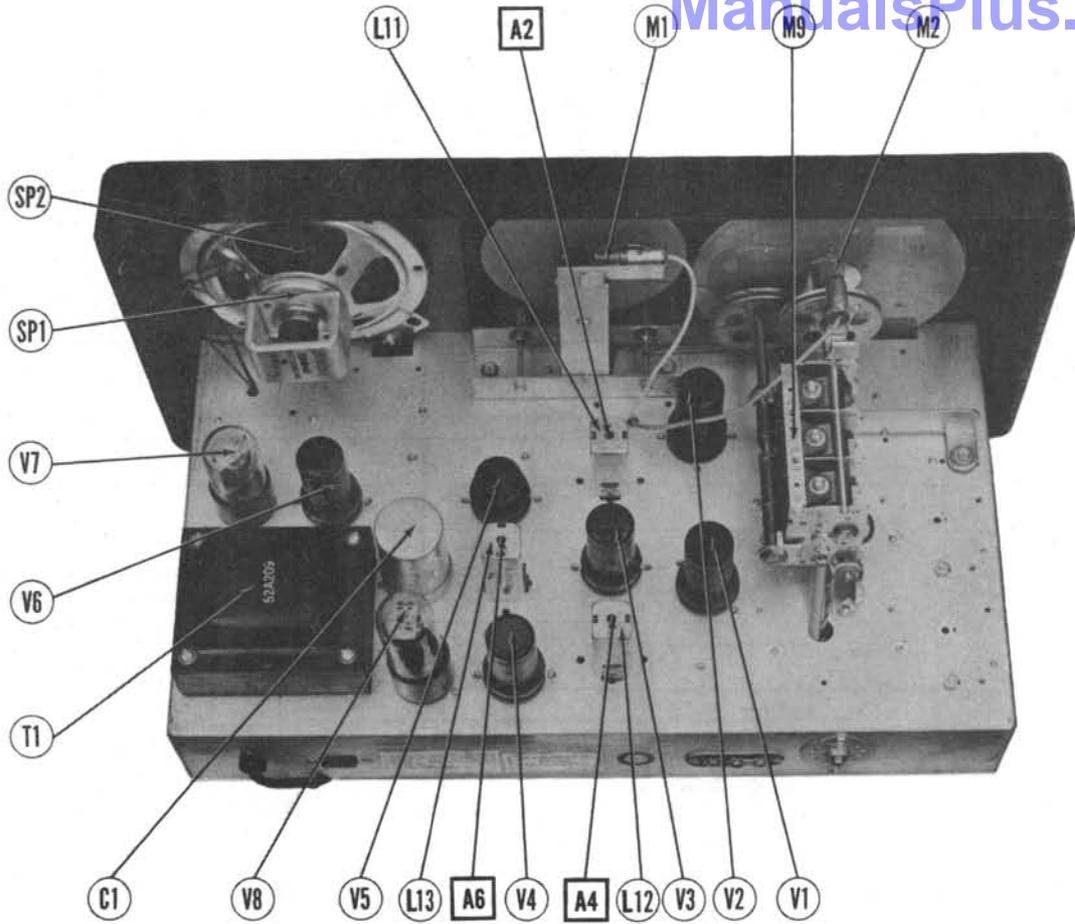
The RMA dummy antenna consists of a 200MMF capacitor in series with a 20 microhenry choke, the combination is shunted by a 400MMF capacitor in series with a 400 ohm carbon resistor.

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.

| DUMMY ANTENNA | SIGNAL GENERATOR COUPLING | SIGNAL GENERATOR FREQUENCY | BAND SWITCH POS. | RADIO DIAL SETTING | OUTPUT METER | ADJUST | REMARKS |
|---------------|--|----------------------------|------------------|--------------------|-------------------|------------------------|---|
| 1. Direct | High side to stator on center section of tuning gang. Low side to chassis. | 455KC (400 % Mod.) | 1 | 1000KC | Across voice coil | A1, A2, A3, A4, A5, A6 | Adjust for maximum output. |
| 2. Direct | " | 455KC (Unmod.) | " | " | " | " | Turn the "CW-AM" switch to "CW". Remove the pitch control knob and turn the shaft until zero beat is heard in the speaker. Replace the knob with the indicator dot straight up. |
| 3. RMA | High side thru dummy to antenna terminal "A1". (Connect link between A2 and G). Low side to chassis. | 36MC (400 % Mod.) | 4 | 36MC | " | A7, A8 A9 | Adjust for maximum output. |
| 4. RMA | " | 18MC | " | 18MC | " | A10, A11 A12 | Adjust for maximum output. Repeat steps 3 and 4 until no further improvement can be made. |
| 5. RMA | " | 14MC (400 % Mod.) | 3 | 14MC | " | A13, A14 A15 | Adjust for maximum output. |
| 6. RMA | " | 10MC (400 % Mod.) | 3 | 10MC | " | A16, A17 A18 | Adjust for maximum output. Repeat steps 5 and 6 until no further improvement can be made. |
| 7. RMA | " | 5MC (400 % Mod.) | 2 | 5MC | " | A19, A20 A21 | Adjust for maximum output. |
| 8. RMA | " | 1.8MC (400 % Mod.) | 2 | 1.8MC | " | A22 | Adjust for maximum output. Repeat steps 7 and 8 until no further improvements can be made. |
| 9. RMA | " | 1500 KC (400 % Mod.) | 1 | 1500 KC | " | A23, A24 A25 | Adjust for maximum output. |
| 10. RMA | " | 600KC (400 % Mod.) | 1 | 600KC | " | A26 | Adjust for maximum output. Repeat steps 9 and 10 until no further improvement can be made. |



CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

| ITEM No. | USE | REPLACEMENT DATA | | RMA BASE TYPE | INSTALLATION NOTES |
|----------|-------------------|-----------------------|----------------------|---------------|--------------------|
| | | Hallcrafters PART No. | STANDARD REPLACEMENT | | |
| V1 | RF Amp. | 90X6SG7 | 6SG7 | 8BK | |
| V2 | Converter | 90X6SA7 | 6SA7 | 8R | |
| V3 | 1st IF Amp. | 90X6SK7 | 6SK7 | 8N | |
| V4 | 2nd IF Amp. | 90X6SK7 | 6SK7 | 8N | |
| V5 | Det.-AVC-A. N. L. | 90X6RH6 | 6RH6 | 7C | |
| V6 | AF Amp.-BFO | 90X6SC7 | 6SC7 | 8S | |
| V7 | Power Output | 90X6K6GT | 6K6GT | 7S | |
| V8 | Rectifier | 90X5Y3GT | 5Y3GT | 5T | |

CAPACITORS

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

| ITEM No. | RATING CAP. VOLT | REPLACEMENT DATA | | | | SPRAGUE PART No. | ERIE PART No. | CORNELL-DUBILIER PART No. | IDENTIFICATION AND INSTALLATION NOTES |
|----------|------------------|-----------------------|------------------|--------------------|------------------|------------------|---------------|---------------------------|---------------------------------------|
| | | Hallcrafters PART No. | AEROVOX PART No. | CENTRALAB PART No. | REPLACEMENT DATA | | | | |
| C1A | 30 | 45A062 | AFH266J | UP41145 | TVL-4729 | | | Filter | |
| C1B | 10 | | | | | | | Filter | |
| C1C | 10 | | | | | | | Output Cath. Bypass | |
| C2 | 10 | 45A121 | PR525/10 | BR102A | TVA-1204 | | | Output Cath. Bypass | |
| C3 | 220 | 47X20B221K | 1468-00025 | 5W5T25 | IFM-325 | | | RF Coupling | |
| C4 | .05 | 46AW503J | P488-05 | DF-503 | 4TM-S5 | | | RF Amp. Screen | |
| C5 | .05 | 46AW503J | P288-05 | DF-503 | 2TM-S5 | | | RF Amp. Cathode | |
| C6 | .25 | 46AT254J | P488-25 | G72P25 | 2TM-P25 | | | Cathode Bypass | |
| C7 | 2.2 | 47A160-4 | S122 | TCZ-2.2 | | | | RF Coupling | |
| C8 | 22 | 47X21UK220M | SI15 | TCN-22 | 19C7 | | | RF Coupling | |
| C9 | 15 | 47X21UK220M | SI15 | TCN-15 | 19C6 | | | RF Coupling | |
| C10 | 220 | 47X20B221K | 1468-0002 | D6-221 | 19C13 | | | RF Amp. Plate | |
| C11 | 390 | 47X20B391K | 1468-0004 | D6-391 | IFM-34 | | | Osc. Grid Cap | |
| C12 | .01 | 46A1W103J | P488-01 | D6-103 | 4TM-S1 | | | Osc. Feedback | |
| C13 | 68 | 47X25UK680K | | TCN-68 | 29C15 | | | Fixed Trimmer | |
| C14 | 2700 | 47X30C302K | 1464-0003 | IR5D3 | MS-23 | | | Fixed Padder | |
| C15 | 1500 | 47X30C152J | 1464-0005 | IR5D15 | MS-215 | | | Fixed Padder | |
| C16 | .05 | 46AW503J | P488-05 | DF-503 | 4TM-S5 | | | RF Bypass | |
| C17 | .02 | 46AU203J | P488-02 | DF-203 | 2TM-S2 | | | RF Filter | |
| C18 | .02 | 46AY203J | P688-02 | DF-203 | 2TM-S2 | | | 1st IF Screen | |
| C19 | .05 | 45AU503J | P288-05 | DF-503 | 2TM-S5 | | | 1st IF Cathode | |
| C20 | .05 | 45AU503J | P288-05 | DF-503 | 2TM-S5 | | | AVC Filter | |
| C21 | .02 | 46AY203J | P688-02 | DF-203 | 6TM-S2 | | | 2nd IF Screen | |
| C22 | .05 | 46AV103J | P488-05 | DF-503 | 2TM-S5 | | | Decoupling | |
| C23 | .1 | 46AV104J | P488-1 | DF-104 | 4TM-P1 | | | Diode RF Filter | |
| C24 | 47 | 47X20B470M | 1468-00005 | D6-470 | IFM-45 | | | Diode RF Filter | |
| C25 | .05 | 46AU503J | P488-05 | DF-503 | IFM-45 | | | ANL Filter | |
| C26 | .05 | 46AU503J | P288-05 | DF-503 | 2TM-S5 | | | Audio Coupling | |
| C27 | .05 | 46AU503J | P488-05 | DF-503 | 2TM-S5 | | | Audio Coupling | |
| C28 | .02 | 46AU203J | P488-02 | DF-203 | 2TM-S2 | | | Audio Coupling | |
| C29 | 1000 | 47X25B102M | 1468-0001 | D6-102 | IFM-21 | | | AF Amp. Plate | |
| C30 | 270 | 47X20B271K | 1468-00025 | D6-271 | IFM-325 | | | Osc. Grid Cap | |
| C31 | 270 | 47X20B271K | 1469-00005 | D6-271 | IFM-325 | | | Osc. Grid Cap | |
| C32 | 470 | 46AV103J | P488-01 | D6-103 | MS-35 | | | Fixed Trimmer | |
| C33 | .01 | 46AV103J | P488-01 | D6-103 | 4TM-S1 | | | Osc. Feedback | |
| C34 | .02 | 1000 | P1068-02 | DF-203 | 6TM-S2 | | | Output Plate Bypass | |
| C35 | .02 | 600 | P688-02 | DF-600 | MB-D2 | | | Tone Comp. | |
| C36 | .02 | 600 | P688-02 | DF-600 | 6TM-S2 | | | Tone Comp. | |
| C37 | .01 | 46AC103J | P688-01 | D6-103 | 6TM-S1 | | | Line Filter | |

CONTROLS

| ITEM No. | RATING RESISTANCE WATTS | REPLACEMENT DATA | | | CENTRALAB PART No. | ERIE PART No. | SPRAGUE PART No. | INSTALLATION NOTES |
|----------|-------------------------|-----------------------|--------------|--------------------|--------------------|---------------|------------------|--------------------------------|
| | | Hallcrafters PART No. | IRC PART No. | CLAROSTAT PART No. | | | | |
| R1A | 10KΩ | 25B590 | Q14-116 | AM-30-V | B-15 | * | | Sensitivity control |
| R2A | 500KΩ | 25A534 | Q13-133 | AM-60-Z | B-60 | | | Attach to R1A per instructions |
| R2B | 500KΩ | Not req. | Not req. | RS-2 | | | | Volume control |
| R3 | Not req. | Not req. | Not req. | RS-2 | | | | Attach to R2A per instructions |

* Reverse right and left terminal connections.

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

| ITEM No. | RATING | | REPLACEMENT DATA | | IDENTIFICATION CODES |
|----------|------------|-------|-----------------------|--------------|-----------------------------|
| | RESISTANCE | WATTS | Hallcrafters PART No. | IRC PART No. | |
| R3 | 1000Ω | | 23X20X102K | BTS-1000 | Series Antenna |
| R4 | 22Ω | | 23X20X220M | | Parasitic Supp |
| R5 | 1Meg | | 23X20X105M | | RF Amp. Grid |
| R6 | 120Ω | | 23X20X121K | | RF Amp. Cathode |
| R7 | 39K | 1 | 23X30X393K | | RF Amp. Screen |
| R8 | 6800Ω | 1 | 23X30X682K | | RF Amp. Plate |
| R9 | 6800Ω | 1 | 23X30X682K | | RF Amp. Plate |
| R10 | 22Ω | 1 | 23X20X220M | | Parasitic Supp - See Note 1 |
| R11 | 33Ω | 1 | 23X20X330M | | Parasitic Supp |
| R12 | 10Ω | 1 | 23X10X100M | | Osc. Grid |
| R13 | 18KΩ | 2 | 23X20X183K | | Osc. Anode |
| R14 | 10KΩ | 1 | 23X20X103K | | Parasitic Supp |
| R15 | 330Ω | 1 | 23X20X331K | | 1st IF Amp. Grid |
| R16 | 100KΩ | 1 | 23X20X104K | | 1st IF Amp. Cathode |
| R17 | 470Ω | 1 | 23X20X471K | | Cathode |
| R18 | 330KΩ | 1 | 23X30X334K | | 1st IF Amp. Screen |
| R19 | 47KΩ | 1 | 23X30X473K | | 2nd IF Amp. Cathode |
| R20 | 1000Ω | 1 | 23X20X102K | | Diode Filter - See Note 2 |
| R21 | 47KΩ | 1 | 23X20X473K | | AVC Network |
| R22 | 56KΩ | 1 | 23X20X563K | | AVC Network |
| R23 | 2.2Meg | 1 | 23X20X225M | | AVC Network |
| R24 | 1Meg | 1 | 23X20X105M | | AVC Network |
| R25 | 470KΩ | 1 | 23X20X474K | | AVC Network |
| R26 | 150Ω | 1 | 23X20X151K | | AVC Diode Load |
| R27 | 100KΩ | 1 | 23X20X104K | | AVC Diode Load |
| R28 | 330KΩ | 1 | 23X20X334K | | AVC Diode Load |
| R29 | 2.2Meg | 1 | 23X20X225M | | AVC Diode Load |
| R30 | 100KΩ | 1 | 23X20X104K | | BFO Grid |
| R31 | 22KΩ | 1 | 23X20X223K | | BFO Plate |
| R32 | 6.8Ω | 1 | 23X30X068K | | Det.-AVC-ANL Filament |
| R33 | 1000Ω | 1 | 23X20X102K | | Voltage Divider |
| R34 | 15Meg | 1 | 23X20X156M | | AF Amp. Grid |
| R35 | 270KΩ | 1 | 23X20X274K | | AF Amp. Plate |
| R36 | 470KΩ | 1 | 23X20X474K | | Output Grid |
| R37 | 680Ω | 1 | 23X30X684K | | Output Cathode |
| R38 | 10KΩ | 1 | 23X20X103K | | Output Screen |
| R39 | 15KΩ | 1 | 23X30X153K | | Tone Compensation |
| R40 | 12KΩ | 1 | 23X65C123K | | Decoupl. - See Note 3. |
| R41 | 1500Ω | 10 | 24BGI52E | 1.3/4A-1500 | Filter - Wire Wound |

Note 1. Some models use 27Ω resistor in this application.

Note 2. Some models use 47KΩ resistor in this application.

Note 3. Some models use resistors in parallel to obtain desired value.

TRANSFORMER (POWER)

| ITEM No. | RATING | | | REPLACEMENT DATA | | |
|----------|---------------|-------------|-------------|-----------------------|------------------|----------------|
| | IMPEDANCE | DC RES. | DC RES. | Hallcrafters PART No. | STANCOR PART No. | MERIT PART No. |
| T1 | 117VAC @ .61A | 700VCT @ 2A | 5VAC @ 2.6A | 52A209 | PM8410 | P2953 |

① Drill new mounting holes.

TRANSFORMER (AUDIO OUTPUT)

| ITEM No. | RATING | | | REPLACEMENT DATA | | | INSTALLATION NOTES |
|----------|-----------|---------|---------|-----------------------|------------------|----------------|--------------------|
| | IMPEDANCE | DC RES. | DC RES. | Hallcrafters PART No. | STANCOR PART No. | MERIT PART No. | |
| T2 | 6.3KΩ | 3.2Ω | 390Ω | 40 | 55D093 | A-3878 | A-2931 RO-13 |

PARTS LIST AND DESCRIPTIONS (Continued)

SPEAKER

| ITEM No. | RATINGS | | REPLACEMENT DATA | | INSTALLATION NOTES |
|----------|-----------|------------|-----------------------|------------------|--------------------|
| | FIELD | V. C. IMP. | Hallcrafters PART No. | JENSEN PART No. | |
| SP1 | PM 4 3/4" | 3.2Ω | 85B050 | ST-105 Mod. P5-X | |
| SP2 | 4 3/4" | 9/16" | | | 5A1 |

R F COILS

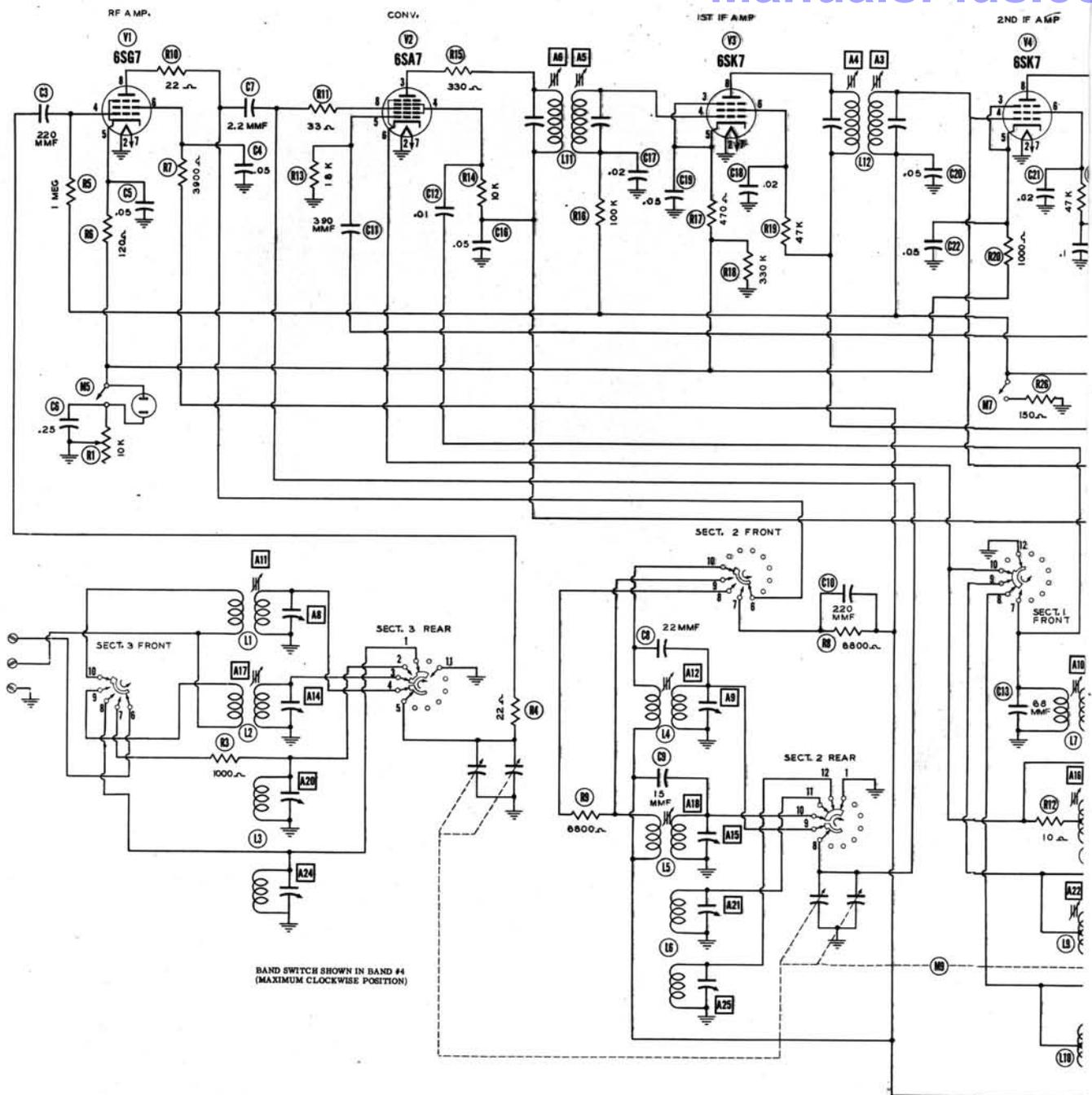
| ITEM No. | USE | DC RES. | | REPLACEMENT DATA | | NOTES |
|----------|--------------|---------|------|-----------------------|-------------------|--------|
| | | PRI. | SEC. | Hallcrafters PART No. | MEISSNER PART No. | |
| L1 | Antenna Coil | .3Ω | .1Ω | 51B783 | | Band 4 |
| L2 | Antenna Coil | .4Ω | .2Ω | 51B782 | | Band 3 |
| L3 A | Antenna Coil | 5Ω | | 51B1241 | | Band 2 |
| L3 B | RF Coil | 1.6Ω | .1Ω | 51B787 | | Band 4 |
| L4 | RF Coil | 1.6Ω | .2Ω | 51B786 | | Band 3 |
| L5 | RF Coil | 1.6Ω | | 51B1240 | | Band 2 |
| L6 A | Osc. Coil | 5Ω | .1Ω | 51B791 | | Band 4 |
| L6 B | Osc. Coil | 5Ω | .2Ω | 51B813 | | Band 1 |
| L7 | Osc. Coil | 1.5Ω | | 51B789 | | Band 3 |
| L8 | Osc. Coil | 3.5Ω | | 51B912 | | Band 2 |
| L9 | Osc. Coil | 9Ω | 9Ω | 50C243 | | Band 3 |
| L10 | 1st IF | 9Ω | 9Ω | 50C243 | | Band 2 |
| L11 | 2nd IF | 18Ω | 18Ω | 50C242 | | Band 1 |
| L12 | 3rd IF | 15Ω | | 50B044 | | |
| L13 | BFO Coil | | | | | |
| L14 | BFO Coil | | | | | |

DIAL LIGHTS

| ITEM No. | BASE TYPE | VOLTS | AMPS. | BEAD COLOR | REPLACEMENT DATA | | NOTES |
|----------|-----------|-------|-------|------------|-----------------------|-------------------|----------|
| | | | | | Hallcrafters PART No. | MEISSNER PART No. | |
| M1 | Bayonet | 6-8 | .25 | Blue | 39A003 | | Type #44 |
| M2 | Bayonet | 6-8 | .25 | Blue | 39A003 | | Type #44 |

MISCELLANEOUS

| ITEM No. | PART NAME | HALLCRAFTERS PART No. | NOTES |
|----------|------------------|-----------------------|---------------------------|
| | | | |
| B | Switch Wafer | 62B039 | Band, Mixer |
| C | Switch Wafer | 62B044 | Band, Oscillator |
| D | Switch Shaft | 60B392 | Band |
| M4 | Switch | 60A225 | Power - Tone |
| M5 | Switch | 60A138 | Standby - Receive |
| M6 | Switch | 60A138 | CW-AM |
| M7 | Switch | 60A138 | AVC |
| M8 | Switch | 60A138 | Noise Limiter |
| M9 | 5' Gang Var. Cap | 48C240 | (I-438MMF) Each Section |
| | Dial | 83C372 | Bandspread |
| | Dial | 83C240 | General Coverage |
| | Knob | 12A058 | Pitch |
| | Knob | 15A049 | Sensitivity, Volume, Tone |
| | Knob | 15A047 | Tuning, Bandspread |
| | Knob | 15A266 | Band Switch |



BAND SWITCH SHOWN IN BAND #4
(MAXIMUM CLOCKWISE POSITION)

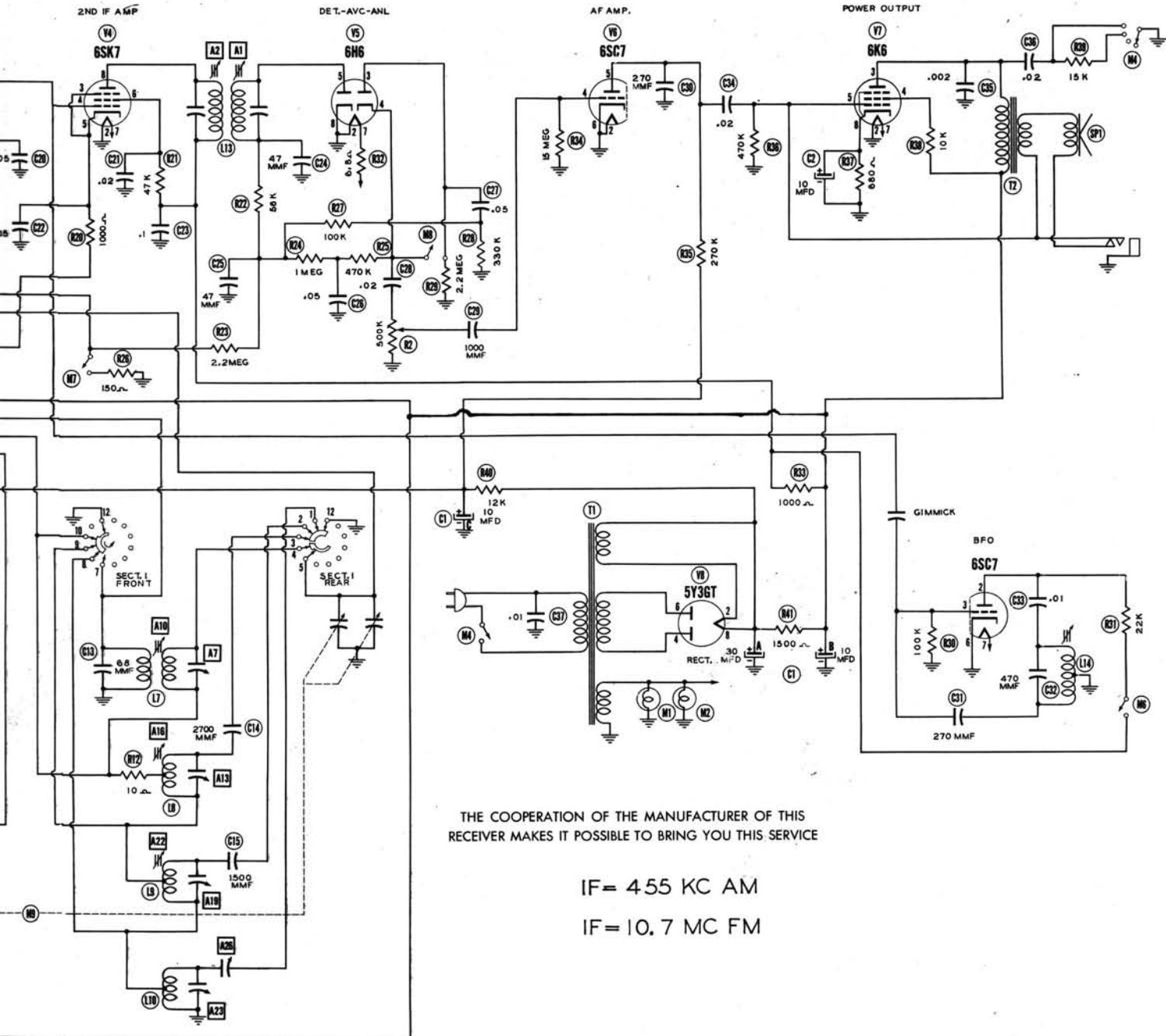
VOLTAGE READINGS

| Item | Tube | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 |
|------|-------|-------|--------|--------|--------|----------|--------|--------|--------|
| V 1 | 6SG7 | 0V | 0V | 45VDC | 0V | 45VDC | 330VDC | 6.3VAC | 325VDC |
| V 2 | 6SA7 | 0V | 0V | 200VDC | 110VDC | 8-9.8VDC | .3VDC | 6.3VAC | 0V |
| V 3 | 6SK7 | 0V | 0V | 47VDC | 0V | 47VDC | 305VDC | 6.3VAC | 320VDC |
| V 4 | 6SK7 | 0V | 0V | 50VDC | 0V | 50VDC | 315VDC | 6.3VAC | 325VDC |
| V 5 | 6H8 | 0V | 0V | -2VDC | 0V | -8VDC | -8VDC | 6.3VAC | 0V |
| V 6 | 6SC7 | 0V | 360VDC | -6VDC | -4VDC | 75VDC | 0V | 6.3VAC | 0V |
| V 7 | 6K8GT | 0V | 0V | 315VDC | 330VDC | 0V | 200VDC | 6.3VAC | 22VDC |
| V 8 | 5Y3GT | 0V | 380VDC | 0V | 340VAC | 0V | 340VAC | 0V | 380VDC |

1 TAKEN WITH VACUUM TUBE VOLTMETER

2 TAKEN WITH CW-AM RECEIVER-STANDBY SW
AVC SWITCH ON
NOISE LIMITER SWITCH
CW-AM SWITCH BY AM U
BAND SWITCH IN BAND 1

- DC Voltage measurements are at measured at 1,000 ohms per volt.
- Socket connections are shown as 1
- Measured values are from socket p
- Line voltage maintained at 117 v
- Nominal tolerance on component + 10% in voltage and resistance
- Volume control at maximum, no ments.



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

IF = 4.55 KC AM

IF = 10.7 MC FM

| Pin 6 | Pin 7 | Pin 8 |
|--------|--------|--------|
| 280VDC | 6.3VAC | 325VDC |
| 320VDC | 6.3VAC | 0V |
| 300VDC | 6.3VAC | 320VDC |
| 310VDC | 6.3VAC | 325VDC |
| 0VDC | 6.3VAC | 0V |
| 0V | 6.3VAC | 0V |
| 280VDC | 6.3VAC | 22VDC |
| 340VAC | 0V | 380VDC |

RESISTANCE READINGS

| Item | Tube | Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 | Pin 6 | Pin 7 | Pin 8 |
|------|-------|-------|--------|--------|---------|-------|-------|-------|--------|
| V 1 | 6SK7 | 0Ω | 0Ω | 8KΩ | 3.6Meg | 8KΩ | 140KΩ | .1Ω | 18.3KΩ |
| V 2 | 6SA7 | 0Ω | 0Ω | 112KΩ | 122KΩ | 18KΩ | 100 | .1Ω | 33Ω |
| V 3 | 6SK7 | 0Ω | 0Ω | 8.5KΩ | 2.7Meg | 8.5KΩ | 148KΩ | .1Ω | 11.5KΩ |
| V 4 | 6SK7 | 0Ω | 0Ω | 9KΩ | 2.6Meg | 9KΩ | 150KΩ | .1Ω | 12.5KΩ |
| V 5 | 6H6 | 0Ω | 0Ω | 2.2Meg | 1.9Meg | 490KΩ | 490KΩ | .1Ω | 0Ω |
| V 6 | 6SC7 | 0Ω | 1.25KΩ | 100KΩ | 15Meg | 128KΩ | 0Ω | .1Ω | 0Ω |
| V 7 | 6K6GT | 0Ω | 0Ω | 11.9KΩ | 111.5KΩ | 470KΩ | 112KΩ | .1Ω | 88Ω |
| V 8 | 5Y3GT | Inf. | 50KΩ | Inf. | 150Ω | Inf. | 150Ω | Inf. | 50KΩ |

† MEASURED FROM PIN 2 OF V 8

RESISTANCE READINGS ARE TAKEN WITH CW-AM SWITCH IN CW POSITION. VOLTAGE READINGS ARE TAKEN WITH RECEIVE-STANDBY SWITCH IN RECEIVE POSITION. RESISTANCE READINGS ARE TAKEN WITH NOISE LIMITER SWITCH ON. VOLTAGE READINGS ARE TAKEN WITH CW-AM SWITCH IN AM UNLESS OTHERWISE NOTED. RESISTANCE READINGS ARE TAKEN WITH BAND SWITCH IN BAND 1 (1.55-1.5MC).

Voltage measurements are at 20,000 ohms per volt; AC Voltages are at 1,000 ohms per volt. Connections are shown as bottom views. Resistance values are from socket pin to common negative. Voltage measurements are taken with power supply voltage maintained at 117 volts for voltage readings. A 5% tolerance on component values makes possible a variation of 10% in voltage and resistance readings. For best control at maximum, no signal applied for voltage measurements.