SECTION I
GENERAL DESCRIPTION

1-1. INTRODUCTION.

Your new Hallicrafters Model S-108 is a precision built, highly sensitive, communications receiver providing complete coverage in the frequency range of 538 kilocycles to 34 megacycles. Eight tubes, including one rectifier, are employed in the latest superheterodyne circuit and provision is made for the reception of AM or CW signals over the entire tuning range.

For ease and flexibility of operation, two tuning dials are provided. The circular dial provides the general frequency coverage, while the slide rule type dial (the bandspread dial) is specifically calibrated for the 80, 40, 20, 15 and 10 meter bands.

For increased selectivity, an automatic noise limiter circuit can be switched into operation to provide a means of receiving many signals that would be lost in background noise with ordinary receiving equipment.

Other special features include full range TONE control, SENSITIVITY control with provision for the optional use of AVC, a STANDBY-RECEIVE switch that permits silencing the receiver while maintaining it ready for instant use, without waiting for the tubes to warm up, and a headphone (PHONES) jack mounted on the front panel. Also included is a built-in Alnico V permanent magnet speaker for assured lifelike reproduction.

IMPORTANT
Careful attention should be directed to the "INSTALLATION" and "OPERATION" instructions. They have been provided to insure the satisfaction you have a right to expect from any Hallicrafters "Precision Built" product. Your receiver has an unusually high degree of sensitivity necessary to receive weak and distant stations. Careless operation of a high sensitivity receiver may result in excess noise or background hiss. These undesirable effects can be held to a minimum by careful adjustment of the SENSITIVITY, TUNING, and TONE controls as well as the proper selection and arrangement of the antenna.
SECTION II
INSTALLATION

2-1. UNPACKING.

After unpacking the receiver, examine it closely for damage which may have occurred in transit. Should any sign of damage be apparent, file a claim immediately with the carrier stating the extent of damage. Carefully check all shipping labels and tags for instructions before removing or destroying them.

2-2. LOCATION.

The receiver is equipped with rubber mounting feet for table or shelf mounting. When locating the receiver, avoid excessively warm locations such as those near radiators and heating vents. Allow at least one inch of clearance between the back of the receiver and the wall for proper ventilation.

2-3. POWER SOURCE.

The S-108 receiver is designed to operate from a 105-125 volt, 50-60 cycle AC power source. Power consumption is 75 watts.

IMPORTANT

If in doubt about your power source, contact your local power company prior to inserting the power cord into an AC power outlet. Plugging the power cord into the wrong power source may cause extensive damage to the unit, requiring costly repairs.

2-4. ANTENNAS.

The RF input of the receiver is designed for operation from either a single-wire antenna, or a half-wave doublet or other tuned antenna with transmission line impedances from 52 to 600 ohms. Antenna connections are made to a three-terminal strip at the rear of the receiver marked "A1", "A2", and "G".

2-4-1. SINGLE WIRE ANTENNA.

The simplest antenna and one which will provide satisfactory results throughout the entire tuning range is a conventional single-wire antenna. In most localities, good results can be obtained with just the 15-foot length of antenna wire supplied with the receiver. Simply attach one end of this wire to terminal "A1", connect the jumper link between terminals "A2" and "G", and then run the wire about the room in any convenient manner. (See Fig. 2.) If the receiver is operated in a steel constructed building or where receiving conditions are exceptionally poor, an outside antenna should be erected as high as possible and kept free from surrounding objects. In some locations, reception may be improved by connecting a ground wire (ordinary copper wire) from terminal "G" to a cold water pipe or outside ground rod. While the use of an outside ground rod installed in accordance with insurance underwriter's laboratories requirements is adequate protection against lightning, we strongly recommend an additional connection to the nearest cold water pipe to eliminate any shock hazard.

2-4-2. HALF-WAVE DOUBLET ANTENNA.

For top performance, a half-wave doublet or other type of antenna employing a 52 to 600-ohm transmission line is recommended. A typical doublet antenna installation is shown in Fig. 3. The doublet antenna should be cut to the proper length for the most used frequency or band of frequencies. The overall length in feet of a doublet antenna is determined by the following formula:

\[
\text{Length in feet} = \frac{468}{\text{Frequency in megacycles}}
\]

When erecting the doublet antenna, it should be remembered that it displays directional properties broadside to its length and should be so oriented with respect to a desired station for maximum signal pick-up.

The doublet antenna may be fed with either a balanced or unbalanced transmission line. When a balanced transmission line such as "twin-lead" or a twisted pair is used, the transmission line connects to terminals "A1" and "A2", and the jumper link between terminals "A2" and "G" is disconnected. When using an unbalanced transmission line such as coaxial cable, the inner conductor connects to terminal "A1", the outer braid connects to terminal "A2", and the jumper
Figure 4. Receiver Operating Controls.

A ground-wire may improve reception when using an unbalanced transmission line.

The doublet antenna provides optimum performance only at the frequency for which it is cut. Therefore, if one may be desirable for reception on frequencies remote from the antenna frequency to utilize the antenna as a single wire type. This is accomplished by connecting the two transmission line leads together and connecting them to terminals "A1". The jumper link in this case should be connected between terminals "A2" and "C1".

In an installation where the receiver is used in conjunction with a transmitter, it may be advantageous to use the same antenna for receiving as for transmitting. This is especially true when a directive antenna is used since the directive effects and power gain of the transmitting antenna are the same for receiving as for transmitting. Switching of the antenna from the transmitter to the receiver may be accomplished with a double-pole, double-throw antenna changeover relay or knife switch connected in the antenna leads.

For further information regarding antennas, refer to the "Radio Amateur's Handbook" or the "A.R.R.L. Antenna Book", both published by the American Radio Relay League, West Hartford, Conn., U.S.A.

2-5. HEADPHONES

The headphone jack, marked "PHONES", is located on the front panel of the receiver and is wired so that the speaker is automatically disabled when the headphones are plugged in. The headphone output impedance is not critical and any commercial headphones may be used, including crystal types, as no direct current flows in the headphone circuit. For maximum headphone output, the use of low-impedance magnetic phones (50 to 1000 ohms) is recommended.

SECTION III
OPERATION

3-1. GENERAL

Each control of your receiver performs a definite function which contributes to its outstanding reception capabilities. Full appreciation of the receiver is to be expected only after you have become familiar with each of the controls and the effect each control has on the performance of the receiver.

As a special convenience for those not yet familiar with the full advantages of the various controls, the control settings commonly used for broadcast reception are marked with a dot.

3-2. SENSITIVITY CONTROL

The SENSITIVITY control is used in combination with the VOLUME control to regulate the level of receiver output.

The setting of the SENSITIVITY control determines the ability of the receiver to pick up weak or distant stations. This control is normally set at the extreme clockwise position, when receiving AM signals, and at some other position when receiving CW signals. Maximum sensitivity may be used while tuning across the frequency range, but if the station ac-
tested has too strong a signal, excessive background noise or distortion may be present. If this undesirable effect is produced, it can be greatly reduced by turning the SENSITIVITY control in the counterclockwise direction to a slightly lower setting. If, after reducing the sensitivity, more volume is needed, advance the VOLUME control. When receiving CW signals, a setting of the SENSITIVITY control that is too high will be evidenced by "humming" (overloading).

3-3. BAND SELECTOR CONTROL.

The BAND SELECTOR control should be set for the band you wish to use. The four positions of this control correspond to the band numbers at either side of the main tuning dial.

3-4. AM-CW SWITCH.

Set this switch at "AM" to listen to voice broadcasts. Set it at "CW" only if you wish to hear code signals.

3-5. AVC SWITCH.

The AVC switch, when set at "ON", places the automatic volume control circuit in operation to maintain a uniform volume level, regardless of variations in signal strength at the antenna. For AM reception, this switch should normally be set at "ON". For CW reception, this switch should be set at "OFF".

3-6. NOISE LIMITER SWITCH.

This switch should normally be set at "OFF". If severe electrical disturbances, ignition noise, or other types of pulse-type noise interfere with reception, set the switch at "ON" to place the Automatic Noise Limiter circuit in operation.

3-7. VOLUME CONTROL.

This control is used to regulate receiver volume. Clockwise rotation increases volume; counterclockwise rotation decreases volume.

3-8. PITCH CONTROL.

This control is used to vary the pitch of code signals, and should be set for the tone most pleasing to the operator. For CW operation, this control must be set at "CW".

3-9. TONE CONTROL.

The TONE control is a combination receiver ON-OFF switch and a 3-position TONE control. The "PWR OFF" position, the receiver is inoperative. To turn the receiver on, simply rotate the control to any of its three remaining positions. For AM reception, set the control for the desired audio quality. For CW reception, set the control at "LOW".

3-10. TUNING AND BANDSPREAD CONTROLS.

The TUNING and BANDSPREAD controls are used in conjunction with one another to tune in the desired signal. Wide tuning is performed with the TUNING control and fine tuning with the BANDSPREAD control.

A. MAIN TUNING DIAL.

The main tuning or left-hand dial is operated by the TUNING control. This dial has four calibrated scales, one for each of the four frequency bands covered by the receiver. It also contains a 20 division logging scale for accurately tuning and rebroadcasting stations of special interest. The main tuning dial should be set for the desired station frequency after the BANDSPREAD control has been set fully clockwise (minimum bandspread tuning capacity).

IMPORTANT

The receiver frequency readings or calibrations on the main tuning dial will be correct only if the BANDSPREAD control has been set fully clockwise. If it is set at any other setting, the additional bandspread capacity added to the main tuning range will throw off the main tuning dial calibration, because the receiver has been calibrated with the bandspread tuning capacitor set at minimum.

The dial settings for the 80, 40, 20, 15, and 10 meter bands are indicated on the main tuning dial by white dots. When tuning with the bandspread dial, the main tuning dial must be set at the dot corresponding to the desired band. The 160 meter band is indicated in the dial by three short double-weight lines.

B. BANDSPREAD DIAL.

The bandspread or right-hand dial is operated by the BANDSPREAD control. This dial contains five scales calibrated for the 80, 40, 20, 15, and 10 meter bands. These five scales are calibrated to read receiver frequency directly when the main tuning dial has been set to the index dot of the desired band. For convenience in tuning, the AM phone bands are indicated on the bandspread dial by double-weight lines.

The bandspread dial may also be utilized as a fine tuning adjustment over any portion of the receiver tuning range. Two methods of fine tuning are described below.

(1). The first method of fine tuning is used when it is desired to tune in a single signal with precision accuracy. First the BANDSPREAD control is set a few degrees from its full clockwise position, then the desired signal is located with the TUNING control, and finally the signal is accurately tuned in by "rocking" the BANDSPREAD control (turning it slightly to the left and right) until the signal is loudest and clearest.

(2). The second method of fine tuning is used when it is desired to tune through a group of signals. With the BANDSPREAD control set fully clockwise, adjust the TUNING control to tune in the highest-frequency signal in the group. The other
3-11. STANDBY-RECEIVE SWITCH.

This switch, normally set at "REC", permits you to silence the receiver without turning it off. To silence the receiver, set the switch at "STANDBY". In this position, the RF and IF stages are cut off, but the tube heaters remain at operating temperature for instant use. To resume reception at any time, simply return the switch to the "REC" position.

3-12. SERVICE OR OPERATION QUESTIONS.

For any further information regarding operation or servicing of your receiver, contact your Hallicrafters dealer. The Hallicrafters Company maintains an extensive network of authorized service centers where any required service will be performed promptly and efficiently at a nominal charge. All Hallicrafters Authorized Service Centers display the sign shown to the right. For the location of the one nearest you, consult your dealer or telephone directory.

Do not make any service shipments to the factory unless instructed to do so by letter. The Hallicrafters Company will not accept the responsibility for any unauthorized shipments.

The Hallicrafters Company reserves the privilege of making revisions in current production of equipment and assumes no obligation to incorporate these revisions in earlier models.

SECTION IV
SERVICING DATA

4-1. TECHNICAL SPECIFICATIONS.

<table>
<thead>
<tr>
<th>TUBES</th>
<th>811B2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPEAKER</td>
<td>8 inch PM, 3.2 ohm voice coil</td>
</tr>
<tr>
<td>HEADPHONE OUTPUT</td>
<td>Low impedance</td>
</tr>
</tbody>
</table>

(See Par. 2-5)

<table>
<thead>
<tr>
<th>ANTENNA INPUT</th>
<th>For single wire or 52-500 ohm balanced or unbalanced line</th>
</tr>
</thead>
<tbody>
<tr>
<td>POWER SOURCE</td>
<td>105-125 volts, 50-60 cycles AC</td>
</tr>
<tr>
<td>POWER CONSUMPTION</td>
<td>150 watts</td>
</tr>
<tr>
<td>RECEPTION</td>
<td>AM and CW INTERMEDIATE FREQUENCY: 455 KC</td>
</tr>
<tr>
<td>AUDIO OUTPUT IMPEDANCE</td>
<td>Matches 3.2 ohms</td>
</tr>
</tbody>
</table>

DIMENSIONS: 18 3/4" wide x 10 1/8" deep x 8" high
WEIGHT: 3 lbs., 4 oz.

4-2. TUBE AND DIAL LAMP REPLACEMENT.

To gain access to the tubes and dial lamps, you

<table>
<thead>
<tr>
<th>Band</th>
<th>Frequency Range</th>
<th>Calibrated Band Spread</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1.55 - 4.6 MC</td>
<td>20M</td>
</tr>
<tr>
<td>2</td>
<td>4.6 - 13.0 MC</td>
<td>40M</td>
</tr>
<tr>
<td>3</td>
<td>12.0 - 34.0 MC</td>
<td>10K</td>
</tr>
<tr>
<td>4</td>
<td>10K</td>
<td></td>
</tr>
</tbody>
</table>

Note: CHASSIS REMOVAL. The tube locations, as well as their functions, are shown in Fig. 6.

4-3. CHASSIS REMOVAL.

The chassis and front panel assembly are removable from the cabinet as a unit by removing the three screws at each side of the front panel and the five screws on the underside of the cabinet. When removing the chassis from the cabinet, care should be taken not to damage or disturb any of the variable adjustments.

4-4. DIAL CORD RESTRINGING.

To restring the TUNING or BANDSPREAD dials, first remove the chassis from the cabinet. See "CHASSIS REMOVAL". Remove the front panel from the cabinet by removing the control knobs, the spring switch and PHONE jack decorative plate, and the two screws at the bottom of the front panel. Then remove the main tuning dial to gain access to the drive pulleys. For stringing details, refer to Fig. 5. Note that stringing is done with the TUNING and BANDSPREAD gauges fully meshed. After stringing is completed, cut off the excess dial cord and apply a drop of quick-drying cement to the knots.

With the TUNING and BANDSPREAD gauges fully meshed, replace the dial so that the index marks at the low frequency end of the dial are in line with the hairline on the dial window.
SECTION V
ALIGNMENT

5-1. GENERAL.

This receiver has been carefully aligned at the factory by specially trained personnel using precision equipment. Alignment of the receiver should not be attempted until all other possible causes of faulty operation have been investigated. Alignment should not be required unless the receiver has been tampered with or component parts have been replaced in the RF or IF stages. Alignment should only be made by persons familiar with communications receivers and experienced in their alignment. Refer to Figs. 5 and 7 for location of all alignment adjustments.

5-2. EQUIPMENT REQUIRED.

1. Signal generator covering 455 KC to 26 MC.

2. Output meter (or AC scale of VTVM). Connect meter from 3.2 ohm speaker terminal to ground.


4. Standard RTMA dummy antenna shown in Fig. 8.

5. 0.02 mfd. capacitor.

5-3. INITIAL CONTROL SETTINGS.

| BAND SELECTOR | AS indicated in chart. |
| SENSITIVITY AND VOLUME | Maximum. |
| NOISE LIMITER AND AVC | OFF |
| STANDBY-RECEIVE | REC |
| TONE | HIGH |
| AM-CW | AM |
| TUNING | Fully clockwise |
| BANDSPREAD | Extreme right position |

Figure 5. Dial Cord Stringing Diagram

Figure 6. Top View chassis Tube Locations and Alignment Points
5-4. ALIGNMENT PROCEDURE.

The local oscillator frequency is higher than the signal frequency on bands 1, 2, and 3, and lower than the signal frequency on band 4. RF alignment can be made with chassis in cabinet. Holes in bottom of cabinet provide access to all RF adjustments.

For IF alignment, remove chassis from cabinet. Use just enough generator output to maintain a 500 millivolt reading on the output meter.

**Figure 8. BTMA Dummy Antenna.**

### IF ALIGNMENT

<table>
<thead>
<tr>
<th>Step</th>
<th>Signal Generator Connections</th>
<th>Generator &amp; Receiver Frequency</th>
<th>Band Selector Setting</th>
<th>Adjust for Maximum Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>High side thru 0.02 mf capacitor to pos 8 of 8647 converter tube (V-2); low side to chassis.</td>
<td>Gen. = 455 KC Rec. = 1.0 MC</td>
<td>1</td>
<td>Top and bottom align of T1 (3rd IF), T2 (2nd IF), and T3 (3rd IF).</td>
</tr>
<tr>
<td>2</td>
<td>Same as Step 1.</td>
<td>Gen. = 455 KC (Unmod.) Rec. = 1.0 MC</td>
<td>1</td>
<td>*Remove PITCH CONTROL knob and set AM-CW switch at &quot;CW&quot;. Using speaker as indicator, adjust L1 (BFO) for &quot;zero beat&quot;. After completing the adjustment replace knob with indicator line in top center position and return AM-CW switch to &quot;AM&quot;.</td>
</tr>
</tbody>
</table>

*After removing the PITCH CONTROL knob (with the knob indicator line in the top center position), loosen set screw attaching the sleeve shaft to the BFO iron core alignment screw. The position of the line on the sleeve shall be maintained while adjusting for a zero beat.

### RF ALIGNMENT

<table>
<thead>
<tr>
<th>Step</th>
<th>Antenna Terminal (Fig. 8) to antenna terminal &quot;A1&quot;; low side to &quot;A2&quot;. Jumper between &quot;A2&quot; and &quot;O&quot;.</th>
<th>Rec. = 28.0 MC</th>
<th>Rec. = 14.0 MC</th>
<th>4</th>
<th>C19 (osc. trimmer) C12 (mixer trimmer) C1 (antenna trimmer)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Rec. = 14.0 MC</td>
<td>Rec. = 5.1 MC</td>
<td>3</td>
<td>C20 (osc. trimmer) C13 (mixer trimmer) C3 (antenna trimmer)</td>
</tr>
<tr>
<td>4</td>
<td>Same as Step 3.</td>
<td></td>
<td>Rec. = 4.0 MC</td>
<td>2</td>
<td>C21 (osc. trimmer) C14 (mixer trimmer) C3 (antenna trimmer)</td>
</tr>
<tr>
<td>6</td>
<td>Same as Step 3.</td>
<td></td>
<td>Rec. = 1.4 MC</td>
<td>1</td>
<td>C22 (osc. trimmer) C16 (mixer trimmer) C4 (antenna trimmer)</td>
</tr>
</tbody>
</table>

**Figure 7. Bottom View Chassis Tube Locations and Alignment Points.**
### SERVICE PARTS LIST

#### Capacitors

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>4700 µF, 25V</td>
<td>044-152145</td>
</tr>
<tr>
<td>C2</td>
<td>2200 µF, 25V</td>
<td>044-152146</td>
</tr>
<tr>
<td>C3</td>
<td>330 µF, 25V</td>
<td>044-152147</td>
</tr>
<tr>
<td>C4</td>
<td>0.22 µF, 25V</td>
<td>044-152148</td>
</tr>
</tbody>
</table>

#### Resistors

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1</td>
<td>500Ω, 5%</td>
<td>044-152149</td>
</tr>
<tr>
<td>R2</td>
<td>1 KΩ, 5%</td>
<td>044-152150</td>
</tr>
<tr>
<td>R3</td>
<td>0.1 KΩ, 5%</td>
<td>044-152151</td>
</tr>
</tbody>
</table>

#### Printed Circuit Board (PCB)

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB1</td>
<td></td>
<td>044-152152</td>
</tr>
</tbody>
</table>

#### Field Transformers

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>1 X 150V Transformer</td>
<td>044-152153</td>
</tr>
</tbody>
</table>

#### Tubes and Dial Lamps

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>6V, 6.3V, 4.5V</td>
<td>044-152154</td>
</tr>
</tbody>
</table>

#### Miscellaneous Parts

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>L1</td>
<td></td>
<td>044-152155</td>
</tr>
<tr>
<td>L2</td>
<td></td>
<td>044-152156</td>
</tr>
</tbody>
</table>

#### Switches

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SW1</td>
<td>Line Cord and Plug Assy</td>
<td>044-152157</td>
</tr>
<tr>
<td>SW2</td>
<td>Socket, Dial Lamp</td>
<td>044-152158</td>
</tr>
</tbody>
</table>

---

**Notes:**

- **Capacitors:**
  - C1: 4700 µF, 25V
  - C2: 2200 µF, 25V
  - C3: 330 µF, 25V
  - C4: 0.22 µF, 25V

- **Resistors:**
  - R1: 500Ω, 5%
  - R2: 1 KΩ, 5%
  - R3: 0.1 KΩ, 5%

- **Printed Circuit Board (PCB):**
  - PCB1

- **Field Transformers:**
  - T1: 1 X 150V Transformer

- **Tubes and Dial Lamps:**
  - T1: 6V, 6.3V, 4.5V

- **Miscellaneous Parts:**
  - L1
  - L2

- **Switches:**
  - SW1: Line Cord and Plug Assy
  - SW2: Socket, Dial Lamp

---

**Notes on Table:**

- Symbols and descriptions are listed alongside their respective part numbers.

**Abbreviations:**

- **C1:** Capacitor 1
- **R1:** Resistor 1
- **PCB1:** Printed Circuit Board 1
- **T1:** Transformer 1
- **SW1:** Switch 1
- **SW2:** Switch 2

---

**Legend:**

- **Part Numbers:**
  - 044-152145
  - 044-152146
  - 044-152147
  - 044-152148
  - 044-152149
  - 044-152150
  - 044-152146
  - 044-152153
  - 044-152154
  - 044-152155
  - 044-152156
  - 044-152157
  - 044-152158

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**Additional Notes:**

- Capacitors are specified by their type and working voltage.
- Resistors are characterized by their resistance value and tolerance.
- Printed circuit board symbols indicate specific components.
- Field transformers designate specific transformer types.
- Tube and dial lamp specifications are noted.
- Miscellaneous parts include various components like switches.

---

**References:**

- Capacitance values and resistance values are clearly marked.
- Transformer specifications include their turns ratio.
- Tube and lamp specifications are indicated for replacement.

---

**Summary:**

- This document provides a comprehensive list of service parts, categorized by type and part number.
- Each part is described with its respective symbol, description, and part number.
- Abbreviations are used for concise reference.
- The table format facilitates easy reference for maintenance and repair work.
Figure 9. Model S-108 Voltage Chart.
matic Diagram.
RESISTOR VALUES ARE IN OHMS UNLESS OTHERWISE SPECIFIED.
CAPACITOR VALUES ARE IN MFD UNLESS OTHERWISE SPECIFIED.
RESISTOR RATINGS ARE 1/2 WATT UNLESS OTHERWISE SPECIFIED.
BAND SELECTOR SWITCH &c SHOWN IN BAND 4 POSITION. FOR
LOCATION OF SWITCH SECTIONS, SEE FIG. 1.

VALUES AND TOLERANCES SHOWN ARE NOMINAL AND VARIATIONS MAY BE FOUND.
IT IS RECOMMENDED THAT THE VALUE OF ANY REPLACEMENT CORRESPOND
TO THE NOMINAL VALUE OF THE PART BEING REPLACED.

Figure 10. Model S-108 Schematic Diagram
Warranty

The Hallcrafters Company warrants each new radio product manufactured by it to be free from defects in material and workmanship and agrees to remedy any such defect or to furnish a new part or exchange for any part of any item of its manufacture which, under normal installation, use and service, develops such defect, provided the same is delivered by the owner to an authorized radio dealer, wholesaler, from whom purchased, or authorized service center, within thirty (30) days of the date of sale to original purchaser and provided that such repair or service is at our judgment that it is thus defective.

This warranty does not extend to any of our radio products which have been subjected to misuse, neglect, accidents, improper wiring and non-repairable or improper installations, or to use in violation of instructions furnished by us, nor extends to units which have been repaired or altered outside of our factory or authorized service center and to those where the serial number thereof has been removed, defaced or changed for or in connection with any other manufacture of our own manufacture.

The period of and approved for remedy or exchange hereunder will be extended or exchanged by the authorized radio dealer or wholesaler without charge to the owner.

This warranty is in lieu of all other warranties expressed or implied and no representation or person is authorized to enter into any other obligations in connection with the sale of our radio products.

the Hallcrafters co.