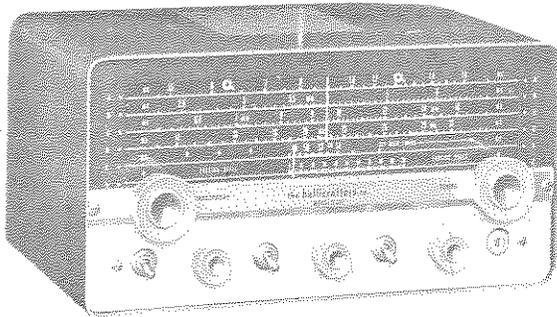


SERVICE DATA FOR MODEL S-107, MARK II

CHASSIS REMOVAL.



092-007166

Figure 1. Hallicrafters Model S-107.

TECHNICAL SPECIFICATIONS

TUBES..... 8 including rectifier
 SPEAKER 4" x 6" PM, 3.2-ohm voice coil
 HEADPHONE OUTPUT IMPEDANCE.....15 ohms
 ANTENNA INPUT IMPEDANCE..... 52 to 600 ohms
 EXT. AMPL. OUTPUT IMPEDANCE.. High impedance
 INTERMEDIATE FREQUENCY. 455 KC
 POWER SOURCE:

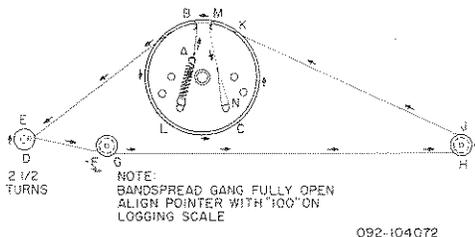
Model S-107..... 105-125 volts, 50-60 cycles
 POWER CONSUMPTION..... 50 watts
 FREQUENCY COVERAGE

BAND	FREQUENCY RANGE
A	540 KC - 1630 KC
B	2.5 MC - 6.3 MC
C	6.3 MC - 16 MC
D	14 MC - 31 MC
E	48 MC - 54.5 MC

TUBE AND DIAL LAMP REPLACEMENT.

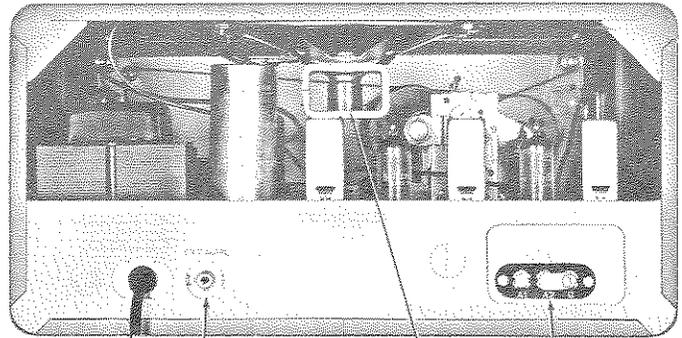
For complete access to the tubes and dial lamps, remove the receiver from the cabinet. See "CHASSIS REMOVAL". The tube and lamp locations are shown in Fig. 5.

CAUTION: Before attempting to make any replacement, rotate the Bandsread control and the Tuning control fully counterclockwise to prevent damage to the tuning gang.



092-104072

Figure 3. Bandsread Dial Cord Stringing Diagram.



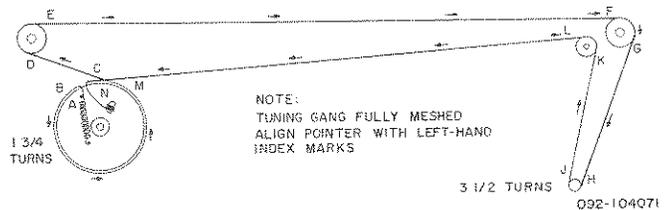
POWER CORD SOI SPEAKER (LS-1) TS-1

092-104019B

Figure 2. Rear Panel View.

DIAL CORD RESTRINGING.

To restring the tuning or bandsread dials, first remove the chassis and front panel assembly from the cabinet. See "CHASSIS REMOVAL". Remove the front panel from the cabinet by removing the control knobs, the toggle switch mounting nuts, the screw at each side of the front panel trim strip, and the two screws near the bottom of the front panel. Then remove the four screws which secure the dial plate to the dial plate mounting brackets. Lift the main tuning dial pointer up by its base until it just clears the dial plate, then tilt the main tuning dial pointer back so that it points straight up, allowing the dial plate to be raised up and off of the bandsread dial pointer. Removal of the dial plate provides complete access to the drive pulleys. Exercise care to prevent damaging the dial pointers. For stringing details, see Figs. 3 and 4.



092-104071

Figure 4. Tuning Dial Cord Stringing Diagram.

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ALIGNMENT PROCEDURE

- Remove chassis from cabinet for alignment by using procedure given in "CHASSIS REMOVAL".
- Use signal generator with modulated output covering 455 KC to 52 MC.
- Use a non-metallic alignment tool.
- Connect output meter across speaker voice coil terminals.
- Control settings: STANDBY/RECEIVE at RECEIVE, CW/AM at AM, NOISE LIMITER at OFF, TONE at HIGH, SPEAKER/PHONES at SPEAKER and SENSITIVITY, VOLUME and BANDSPREAD fully clockwise.
- See Figs. 5 and 6 for location of alignment adjustments.

STEP	SIGNAL GENERATOR CONNECTIONS	SIGNAL GENERATOR FREQUENCY	BAND SELECTOR SETTING	RECEIVER DIAL SETTING	ADJUST	INSTRUCTIONS
1	High side to stator plates of front section of tuning gang through a .1 mfd. capacitor. Low side to chassis.	455 KC	A	TUNING gang fully open.	S1, S2, S3, S4, S5, S6	Adjust for maximum audio output at the speaker voice coil. Use just enough signal generator output to obtain a 50 milliwatt reading on the output meter.
2	Same as STEP 1.	455 KC	A	Same as STEP 1.	T13	Set the CW/AM switch at CW. (Reset the switch to AM when STEP 2 is completed.) Adjust T13 for a zero beat.
3	High side to A1 on antenna terminal strip through a 330 ohm resistor. Low side to chassis. Connect the jumper between A2 and G.	1500 KC 600 KC	A A	1.5 MC .6 MC	C26, C6 C25	Maximum output as in STEP 1.
4	Same as STEP 3.	6 MC	B	6 MC	C24, C7	Maximum output as in STEP 1.
5	Same as STEP 3.	15 MC	C	15 MC	C22, C9	Maximum output as in STEP 1.
6	Same as STEP 3.	30 MC	D	30 MC	C19, C10	Maximum output as in STEP 1.
7	Same as STEP 3.	52 MC	E	52 MC	C18, C11	Maximum output as in STEP 1.

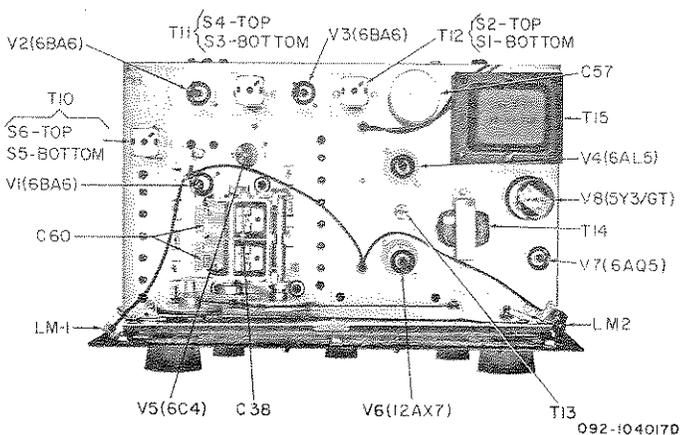


Figure 5. Top View of Chassis.

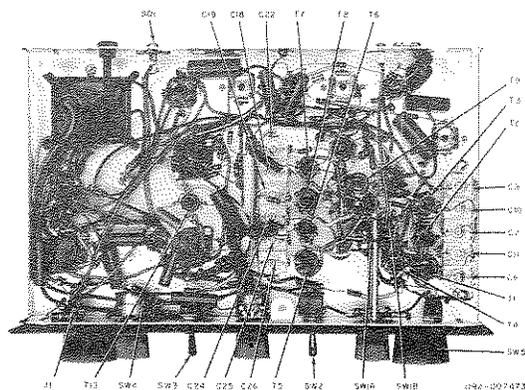


Figure 6. Bottom View of Chassis.

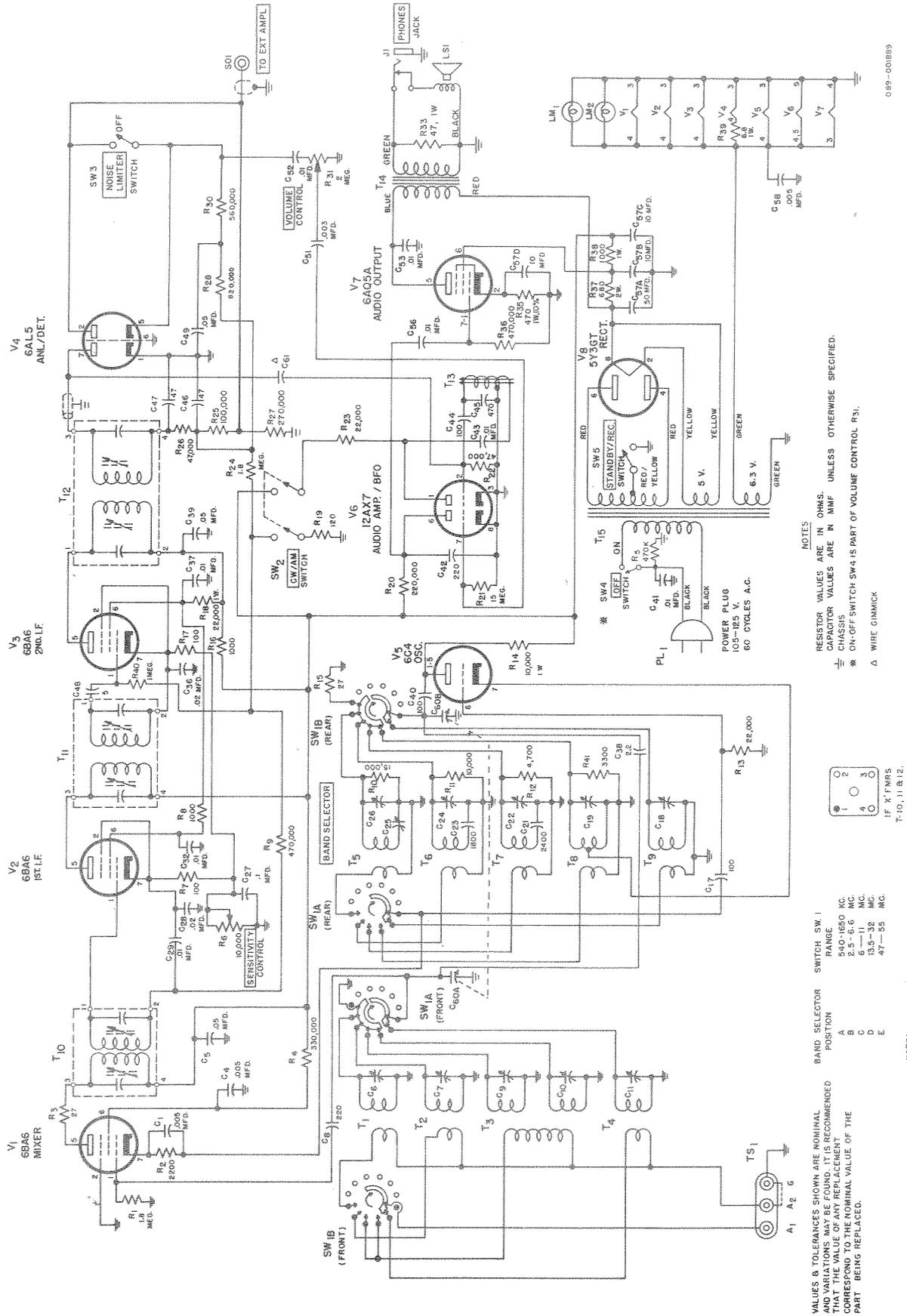


Figure 7. Schematic Diagram.

