## Stromberg-Carlson Model 51 Alignment & Schematic

#### Aligning Procedure (follow this order exactly)

#### I. Dial Pointer Adjustment.

With the plates of the gang tuning capacitor fully engaged, set the dial pointer directly parallel with the junction of blue and white portion of the dial.

#### II. Intermediate Frequency Adjustments.

- 1. Tune set to extreme low frequency position. (.54 megacycles on dial scale).
- 2. Connect the ground terminal of the signal generator to the ground binding post of the receiver.
- 3. Introduce a modulated signal of 455 kilocycles, using a 0.1 microfarad capacitor in series with the lead from the signal generator to the grid terminal (No. 8) of the 6SA7 tube.
- 4. Adjust the I. F. Aligners for maximum output in the following order:
  - a. Secondary of Second I. F. Transformer
  - b. Primary of Second I. F. Transformer.
  - c. Secondary of First I. F. Transformer.
  - d. Primary of first I. F. Transformer.

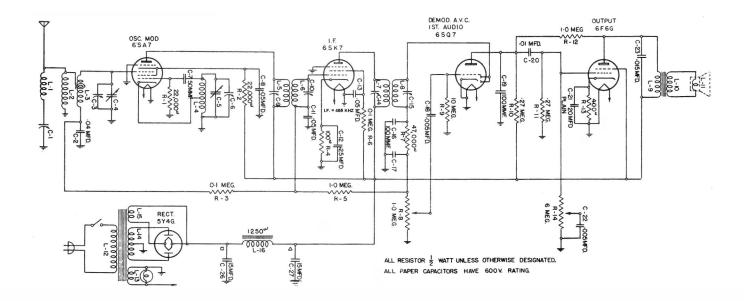
#### III. Wave Trap Adjustment.

- 1. Tune set to 1,000 kilocycles.
- 2. Leave the ground terminal of the signal generator connected to the ground binding post of the receiver.
- 3. Introduce a fairly strong modulated signal of 455 kilocycles to the antenna binding post using a 200 mmf. capacitor in series with the lead from the signal generator.
- 4. Adjust the wave trap aligner for minimum signal.

#### IV. Radio Frequency Adjustments.

(Leave the signal generator connected in the same way as for the wave trap alignment).

- 1. Set the signal generator's frequency and the receiver's tuning dial to 1.5 megacycles.
- 2. Adjust the two aligning capacitors on the variable capacitor for maximum signal.
- 3. Check calibration and sensitivity at .6 megacycles on tuning dial.



# Stromberg-Carlson Model 51 Chassis Layout & Voltage Chart

## Voltage Chart

#### NORMAL VOLTAGE READINGS

Use a good high resistance voltmeter having a resistance of at least 1000 ohms per volt. Take all D. C. voltage readings on the 500 volt scale except where an asterisk appears. Take all readings with chassis operating and tuned to 1000 Kc.—no signal. Use a line voltage of 120 volts or make allowance for the variation. Read from indicated socket terminals to chassis base. See Location Chart for position of terminals. A. C. Voltages are indicated by italics.

Tube	Circuit	Terminals of Sockets								Heater Voltages Between Heater	
		1	2	3	4	5	6	7	8	Terminals	
										Socket Terminal Numbers	Volts A. C.
6SA7	Mod.—Osc.	0	0	+205	+70	-1.25	_	6.3	_	2-7	6.3
6SK7	I. F. Amp.	0	0			+1.1*	+55	6.3	+205	5 2-7	6.3
6SQ7	Dem.—A. V. C. —Audio	0	0	0	0	0	+100	6.3	0	7-8	6.3
6F6G	Output	0	0	+200	⊥205	0		6 9	<b>±11*</b>	9_7	6 9

\*Read on lowest possible scale of voltmeter.

265

+265 +265

0 265

Total Rectified D. C. current is 51 milliamperes. Drop across Field Coil is 65 volts.

Rectifier

## Chassis Layout

