

Stromberg-Carlson Models 323 & 324 Battery Receiver Layout & Alignment

Stromberg-Carlson Model 323 Schematic & Alignment Data & Chassis Layouts for Models 323 & 324

Intermediate Frequency Adjustments

The intermediate frequency used in these receivers is 465 kilocycles. In making these circuit adjustments always align the circuits in the order given in these instructions.

1. Turn Receiver on. Dot on knob clockwise from off indication.

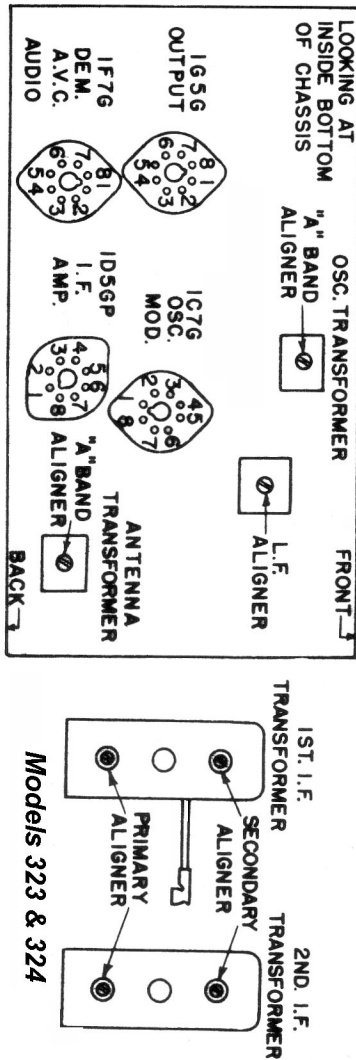
Set the dial pointer to the extreme low frequency position on the receiver's dial. Rotate the "Off-On-Tone" control knob slightly clockwise from its most counter clockwise position which is the "normal" position. Rotate the Volume control knob to its maximum clockwise position (maximum volume).

2. Apply between the chassis base (or ground binding post) of the receiver and the grid of the No. 1C7G modulator-oscillator tube, a modulated signal of 465 kilocycles from the test oscillator, using a 0.1 microfarad capacitor in series with the connection between the output terminal of the test oscillator and the grid of the No. 1C7G tube. Do not remove the chassis grid lead connecting to this tube. The ground (or low side terminal of the test oscillator should be connected to either the chassis base or the ground binding post terminal.

3. Now, noting from Figure 1, the aligning capacitors for the first and second I. F. transformers, align the I. F. circuits in the following manner:

Secondary of second I. F. transformer.
Primary of second I. F. transformer.
Secondary of first I. F. transformer.
Primary of first I. F. transformer.

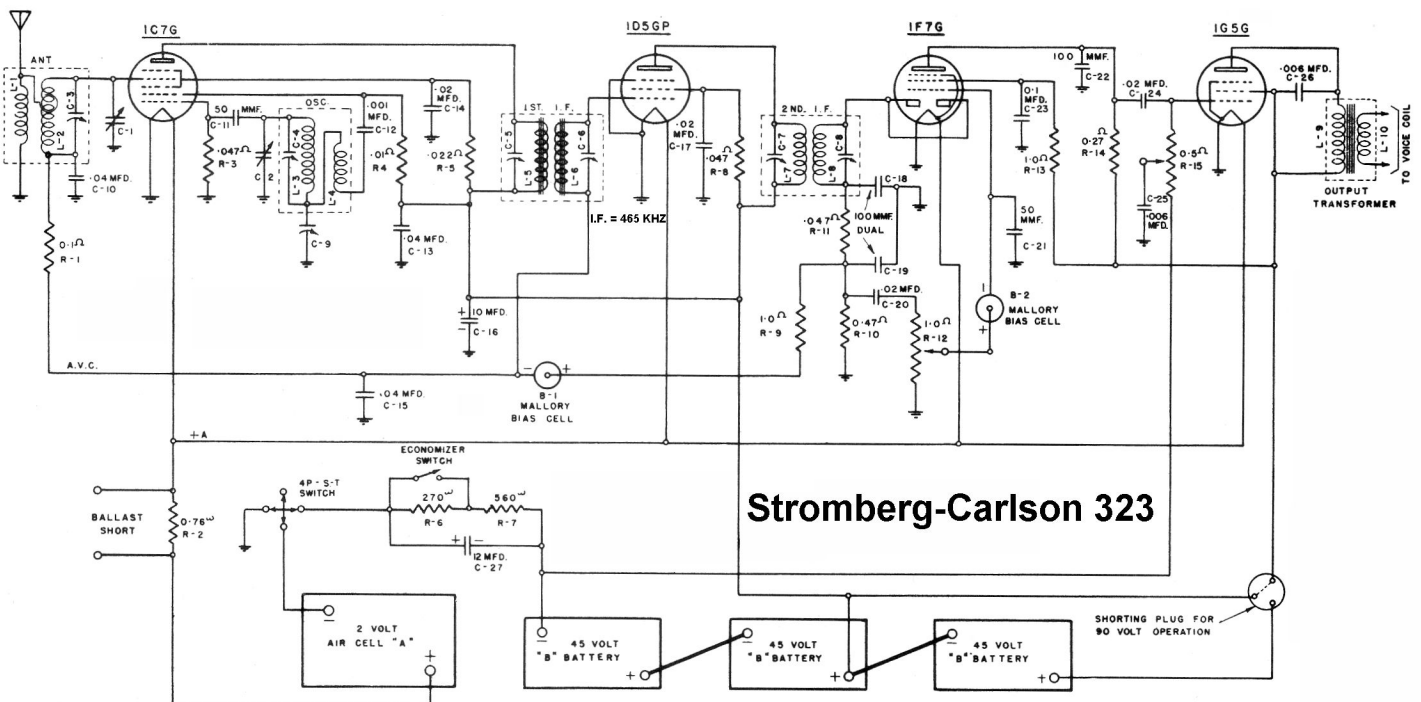
Adjusting the circuits to obtain maximum reading on the output meter, reducing the output of the test oscillator as required.



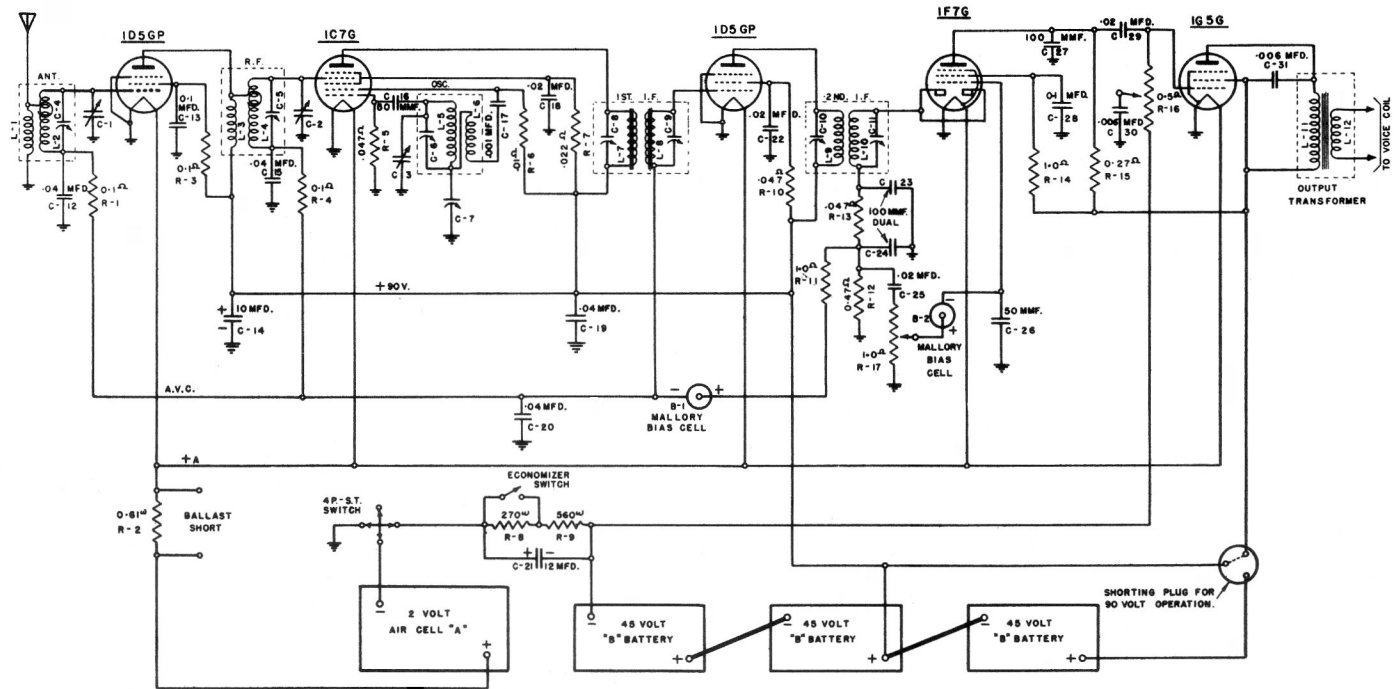
Alignment of Standard Broadcast Range

In aligning the radio frequency circuits for this range, connect a 200-Microfarad capacitor in series with the test oscillator's output lead, and align these circuits as follows:

1. Rotate the Range Switch control knob to the Standard Broadcast ("A") range position and set the test oscillator's frequency and the receiver's tuning dial to 1.5 megacycles.
2. Adjust the oscillator's high frequency aligner for maximum output.
3. Adjust the antenna's high frequency aligner for maximum output.
4. Set the test oscillator's frequency and the receiver's tuning dial to 0.6 megacycles.
5. Adjust the oscillator's low frequency aligner (series aligner) for maximum output, and at the same time rotate the gang tuning capacitor slightly back and forth through resonance until maximum output is obtained.
6. Reset both the test oscillator's frequency and receiver's tuning dial to 1.5 megacycles and repeat operations Nos. 2 and 3.



Stromberg-Carlson Model 324 Schematic



Stromberg-Carlson Model 323 Voltages

Tube	Circuit	Cap	Terminals of Sockets								Heater Voltages Between Heater Terminals	
			1	2	3	4	5	6	7	8	Socket Terminal Numbers	Volts
1G7G	Mod.—Osc.	0	0	0	+90	+38	—2	+55	2.15	—	2-7	2.1
1D5GP	I. F. Amp.	0	0	0	+90	+35	—	+60	—	—	2-7	2.1
1F7G	Dem.—A. V. C. —Audio	0	0	2.15	+11	—	—	+6	—	0	2-7	2.1
1G5G	Audio Output	—	0	0	+125	+135	0	0	2.15	1.35	2-7	2.1

Receiver tuned manually to 1000 Kc., no signal.

Stromberg-Carlson Model 324 Voltages

Tube	Circuit	Cap	Terminals of Sockets								Filament Voltages Between Filament Terminals	
			1	2	3	4	5	6	7	8	Socket Terminal Numbers	Volts
1D5GP	R.F.	0	—	0	92	55	—	—	2.15	—	2-7	2.15
1C7G	Mod.—Osc.	0	—	0	92	55	—2.5	55	2.15	—	2-7	2.15
1D5GP	I. F. Amp.	0	—	0	92	55	0	—	2.15	—	2-7	2.15
1F7G	Dem.—A.V.C. 1st Audio	0	—	0	11	0	0	6.5	2.15	—	2-7	2.15
1G5G	Audio Output	—	—	0	91	0	0	91	2.15	92	2-7	2.15