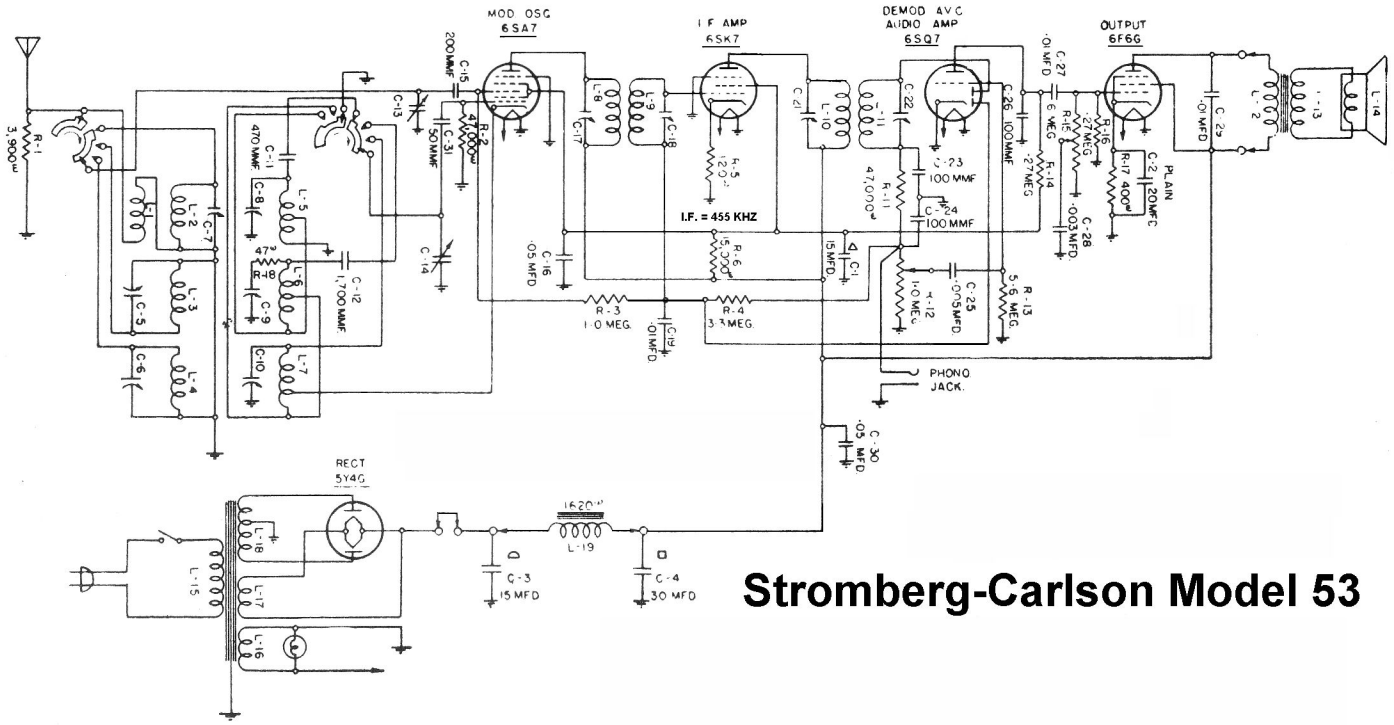
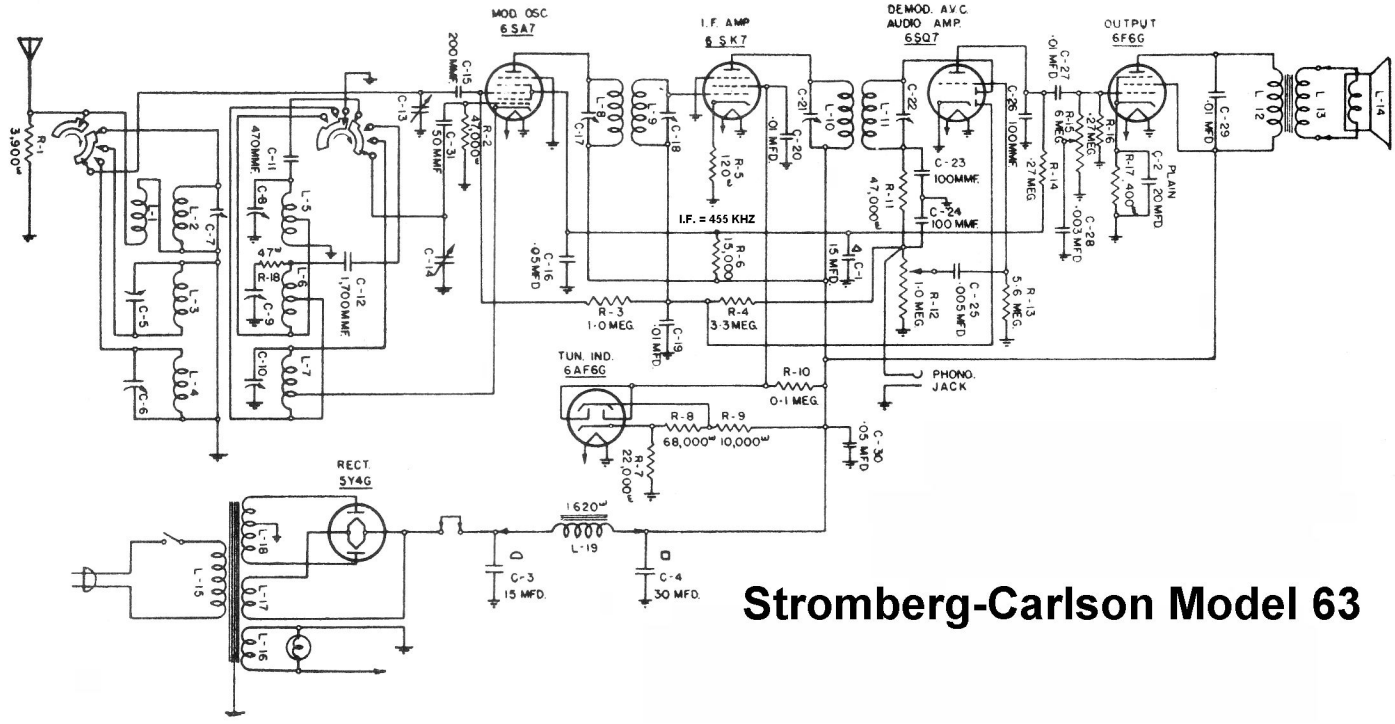
Stromberg-Carlson Models 53 & 63



Stromberg-Carlson Model 53



Stromberg-Carlson Model 63

Stromberg-Carlson Models 53 & 63 Alignment Data, Chassis Layout & Voltage Readings

ALIGNING PROCEDURE. (Follow this order exactly.)

I. Dial pointer adjustment.

With the plates of the gang tuning capacitor fully engaged, check to be sure that the dial pointer is in a vertical position directly on the calibration marks located at the low frequency end of the dial scale. Adjust if necessary.

II. Intermediate frequency adjustments.

1. Set Range Switch to standard broadcast position "A" band.
2. Set Pointer to extreme low frequency end of dial.
3. Connect the ground terminal of the signal generator to the chassis ground terminal.
4. Introduce a modulated 455-kilocycle signal to the grid of the 6SA7 modulator and oscillator tube (terminal No. 8) using a .1 microfarad capacitor in series with the output lead of the signal generator.
5. Adjust the I. F. 455-kc. trimmers 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. Radio frequency Adjustments.

Short Wave Range (C Band).

1. Connect a 400 ohm carbon resistor in series with the antenna lead from the signal generator and the receiver antenna binding-post.
2. Set the range switch to "C" band.
3. Set the signal generator frequency and the receiver tuning dial to 20. mc.
4. Adjust the oscillator "C" band trimmer C-10 for maximum signal and correct calibration.
   Note—Two peaks are usually obtained when adjusting the 20 mc. trimmer, using a strong signal. The peak highest in frequency is the correct one. This is important.
5. Adjust antenna trimmer C-6 for maximum output. "Rock" the gang capacitor so that maximum peak is obtained.
6. Check calibration and sensitivity at 8. mc.

Medium Wave Range (B Band).

1. Connect a 200 mmfd. capacitor in series with the antenna lead from the signal generator, replacing the 400 ohm carbon resistor.
2. Set the range switch to "B" band.
3. Set the signal generator frequency and the receiver tuning dial to 6. mc.
4. Adjust the oscillator "B" band trimmer C-9 for maximum signal and correct calibration.

Note—Use peak highest in frequency.

5. Adjust antenna trimmer C-5 for maximum output. "Rock" the gang to obtain maximum peak.
6. Check calibration and sensitivity at 2.3 mc.

Standard Broadcast Range (A Band).

1. Set the range switch to "A" band.
2. Set the signal generator frequency and the receiver tuning dial to 1500 kc.
3. Adjust the oscillator "A" band trimmer C-8 for maximum signal and correct calibration.
4. Adjust antenna trimmer C-7 for maximum output. "Rock" the gang to obtain maximum peak.
5. Check calibration and sensitivity at 600 kc.

NORMAL VOLTAGE READINGS—MODEL 53

Take all readings with chassis operating and tuned manually to 1000 kc.—No signal.

Use a line voltage of 120 volts or make allowance for the variations.

Use a good high resistance voltmeter having a resistance of at least 1000 ohms per volt.

Take all D.C. readings on the 500 volt scale except when an asterisk appears.

Read from indicated terminals to chassis base.

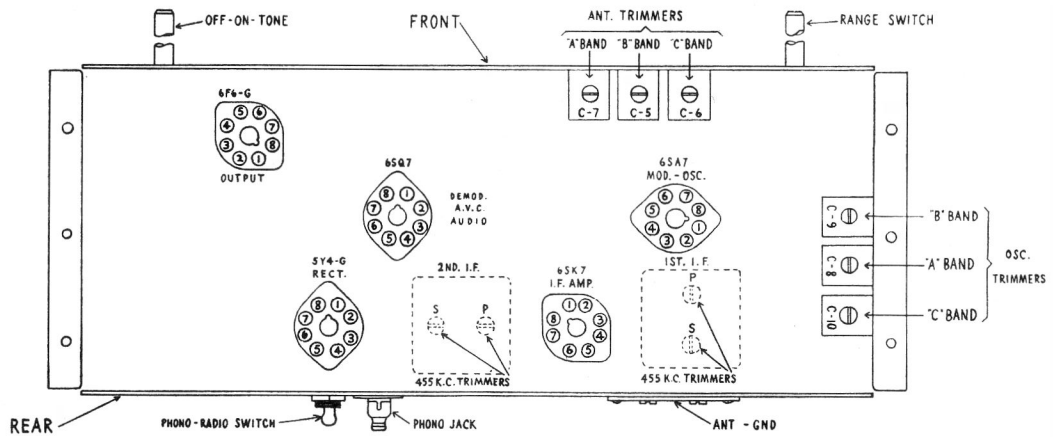
See location chart on page 2 for position of terminals. A.C. voltages are indicated by italics.

		TERMINALS OF SOCKETS							
Tube	*Circuit*	1	2	3	4	5	6	7	8
6SA7	Modulator and Oscillator	0	*6.3*	+250	+95	0	0	0	0
6SK7	I. F. Amplifier	0	*6.3*	0	0	1.3	+95	0	+250
6SQ7	Demodulator, A. V. C., Audio	0	0	0	0	0	+50	*6.3*	0
6F6G	Output	0	*6.3*	+235	+250	0	0	0	+14
5Y4G	Rectifier	0	—	*320*	0	*320*	0	+330	+330

NORMAL VOLTAGE READINGS—MODEL 63

		TERMINALS OF SOCKETS							
Tube	*Circuit*	1	2	3	4	5	6	7	8
6SA7	Modulator and Oscillator	0	*6.3*	+230	+90	0	0	0	0
6SK7	I. F. Amplifier	0	*6.3*	0	0	.9	+63	0	+225
6SQ7	Demodulator, A. V. C., Audio	0	0	0	0	0	+75	*6.3*	0
6F6G	Output	0	*6.3*	+210	+225	0	0	0	+13
6AF6G	Tuning Indicator	0	0	+65	+65	+200	0	*6.3*	+50
5Y4G	Rectifier	0	—	*315*	0	*315*	0	+330	+330

*Read on lowest possible scale of voltmeter



Location Chart