

Stromberg-Carlson A.C. Receiver Model 553 Schematic & Dial Cord

ALIGNING INFORMATION

Never re-align unless absolutely necessary.

Use a good modulated signal generator (test oscillator with variable output voltage and a sensitive output meter across the voice coil of the speaker.)

Always align using the smallest possible input from the signal generator. A strong signal makes adjustments inaccurate.

Always have the volume control "full on".

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 pointer 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 460-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. 460-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-4 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-1 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-5 for maximum signal and correct calibration.

Note—Use peak highest in frequency.

5. Adjust antenna trimmer C-2 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.

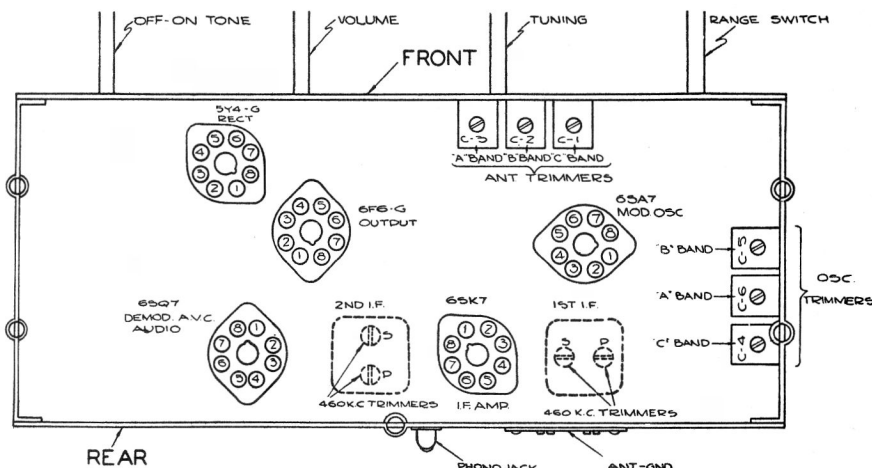
2. Set the signal generator frequency and the receiver tuning dial to 1500 kc.

3. Adjust the oscillator "A" band trimmer C-6 for maximum signal and correct calibration.

4. Adjust antenna trimmer C-3 for maximum output. "Rock" the gang to obtain maximum peak.

5. Check calibration and sensitivity at 600 kc.

Stromberg-Carlson A.C. Receiver Model 553 Alignment Data Chassis Layout & Voltage Chart



Location Chart

TERMINALS OF SOCKETS

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