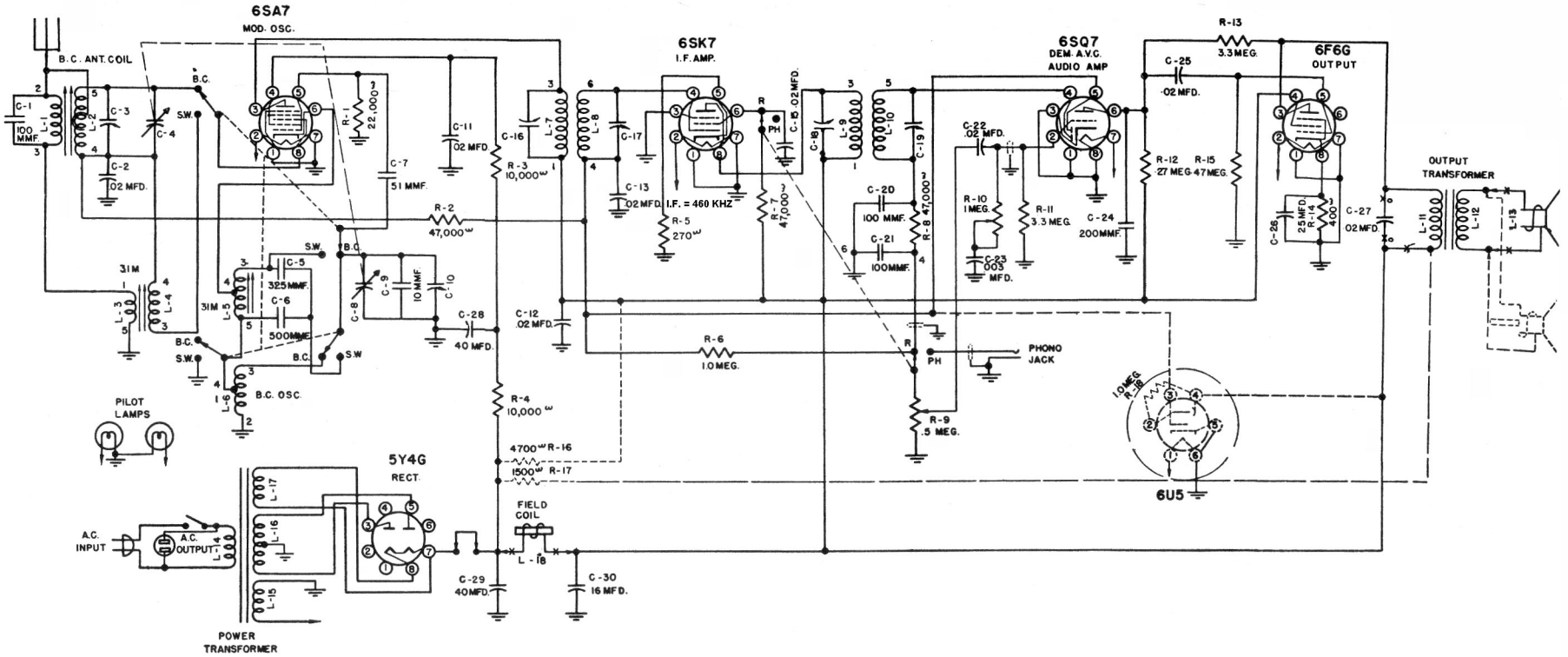
Stromberg-Carlson Model 552 Voltage Chart & Schematic



NORMAL VOLTAGE READINGS

Take all readings with the chassis operating and tuned to 1000 Kc.—no signal.

Use a line voltage of 117 volts or make allowance for any variations.

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

Read from indicated terminals to chassis base.

See the Location Chart for position of sockets. AC voltages are indicated by italics.

NORMAL VOLTAGE READINGS—MODEL 552

		TERMINALS OF SOCKETS							
Tube	*Circuit*	1	2	3	4	5	6	7	8
6SA7	Modulator & Oscillator	—	—	250	110	—12	—	*6*	—.6
6SK7	I. F. Amplifier	—	—	—	—.6	—1.8	105	*6*	250
6SQ7	Demodulator, AVC, Audio	—	—.5	—	—.5	—.6	90	*6*	—
6F6G	Output	—	—	240	250	—	—	*6*	16
5Y4G	Rectifier	—	—	*310*	—	*310*	—	305	305

NOTE—

"TUNING EYE" SHOWN IN DOTTED LINES USED ON RECEIVERS—
662-L
662-APT

P.M. SPEAKER SHOWN IN DOTTED LINES USED ON—
662-APT

TWO RESISTORS SHOWN IN DOTTED LINES USED ON—
662-APT

CONNECTIONS MARKED "X" WILL NOT BE MADE ON 662-APT

IF MARKED "Xo" NOT MADE ON 662-L

Stromberg-Carlson Model 552 Alignment & Chassis Layout

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, as a strong signal makes adjustments inaccurate. Always turn the receiver volume control "full on".

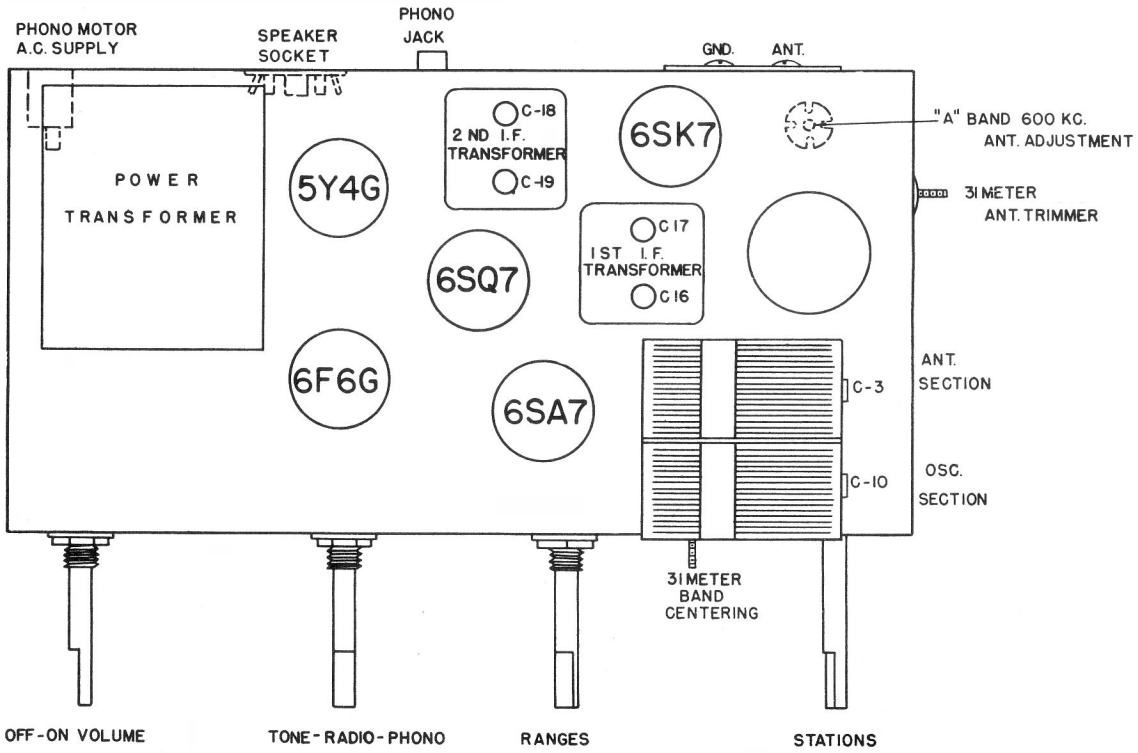
ALIGNING PROCEDURE (Follow this order exactly).

1. **Dial Pointer Adjustment.**
   With the plates of the gang condenser fully engaged, check to be sure that the dial pointer is in a vertical position directly on the calibration mark located at the low frequency end of the dial scale. It appears as a small opening in the gold border, in line with the center gold dividing line. Adjust if necessary.

2. **Intermediate Frequency Adjustments.**
   - 2.1—Set the range switch to "BC" broadcast position.
   - 2.2—Set pointer to the extreme low frequency end of the dial.
   - 2.3—Connect the ground terminal of the signal generator to the chassis ground terminal.
   - 2.4—Introduce a modulated 460 kilocycle signal to the grid of the 6SA7 modulator tube (#8 terminal or C3) using a .1 mfd. capacitor in series with the output lead of the signal generator.
   - 2.5—Adjust the I.F. 460 Kc. trimmers for maximum output in the following order:
     - A—Secondary of 2nd I. F. Transformer C19
     - B—Primary of 2nd I. F. Transformer C18
     - C—Secondary of 1st I. F. Transformer C17
     - D—Primary of 1st I. F. Transformer C16

3. **Radio Frequency Adjustments.**
   Broadcast Range.
   - 3.1—Set the range switch to Broadcast ("BC").
   - 3.2—Set the signal generator frequency and the receiver tuning dial to 1500 Kc.
   - 3.3—Connect a 200. mmfd. capacitor in series with the antenna lead from the signal generator to the "Ant" terminal on the set, replacing the .1 mfd. capacitor.
   - 3.4—Adjust the "BC" band oscillator trimmer C10 for maximum signal and correct calibration.
   - 3.5—Adjust antenna trimmer C3 for maximum output. "Rock" the gang to obtain maximum peak.
   - 3.6—Check calibration and sensitivity at 600 Kc. Adjust "A" band "600 Kc. Ant. adjust" for maximum sensitivity.
   - 3.7—Repeat 3.4 and 3.5 until further adjustment at either 1500 Kc. or 600 Kc. makes no improvement in performance.

4. **31 Meter Spread Band Range.**
   - 4.1—Set the Range Switch to Short Wave (SW)
   - 4.2—Set the Signal Generator frequency and the receiver tuning dial to 9.500 megacycles.
   - 4.3—Connect a 400 ohm carbon resistor in series with the antenna lead from the Signal Generator to the "Ant." terminal on the set, replacing the 200. mmfds. capacitor.
   - 4.4—Adjust the "31 meter Band Centering" screw for maximum signal and correct calibration.
   - 4.5—Adjust the "31 meter antenna trimmer" for maximum output. "Rock" the gang to obtain maximum peak.
   - 4.6—Check sensitivity at 9.250 megacycles and 9.750 megacycles.



CHASSIS LAYOUT