

STROMBERG-CARLSON 56, 565 (Circuit diagram at top of facing page)

Stromberg-Carlson models "56" and "565" are five-valve receivers designed for broadcast coverage and operation from 200—265 v., A.C., supply. These models differ only in cabinet style, model "56" being a mantel and model "565," a console. Three control knobs are fitted, these being for volume, tuning and tone (continuous). The loudspeaker diameters are not known, but the field-coil resistance is 1,000 ohms in each case. Both models were marketed during 1935.

Two points in the circuit require particular note. The first is the common screen/suppressor connection of the 6C6 second detector, this valve therefore being operated as a tetrode, and the second is the series-parallel resistor arrangement to the right of the volume control. This arrangement serves as a voltage divider and basically is merely 15,000 ohms in series with 12,500 ohms.

However, on account of the difficulty in obtaining units of these values in suitable wattage ratings, the required values have been made up by paralleling two units of twice the required resistance in each section.

OPERATING VOLTAGES

The following measurements were made with a "1,000 ohms per volt" meter between chassis and the socket contact indicated. It should be noted that the second detector plate, screen and cathode voltages are only approximate, due to the high-resistance circuits involved. The volume control was full on and the receiver was tuned to a point of "no signal."

6C6, "Autodyne" Frequency Converter: Plate, 250 v.; screen, 90 v.; cathode, 6 v.

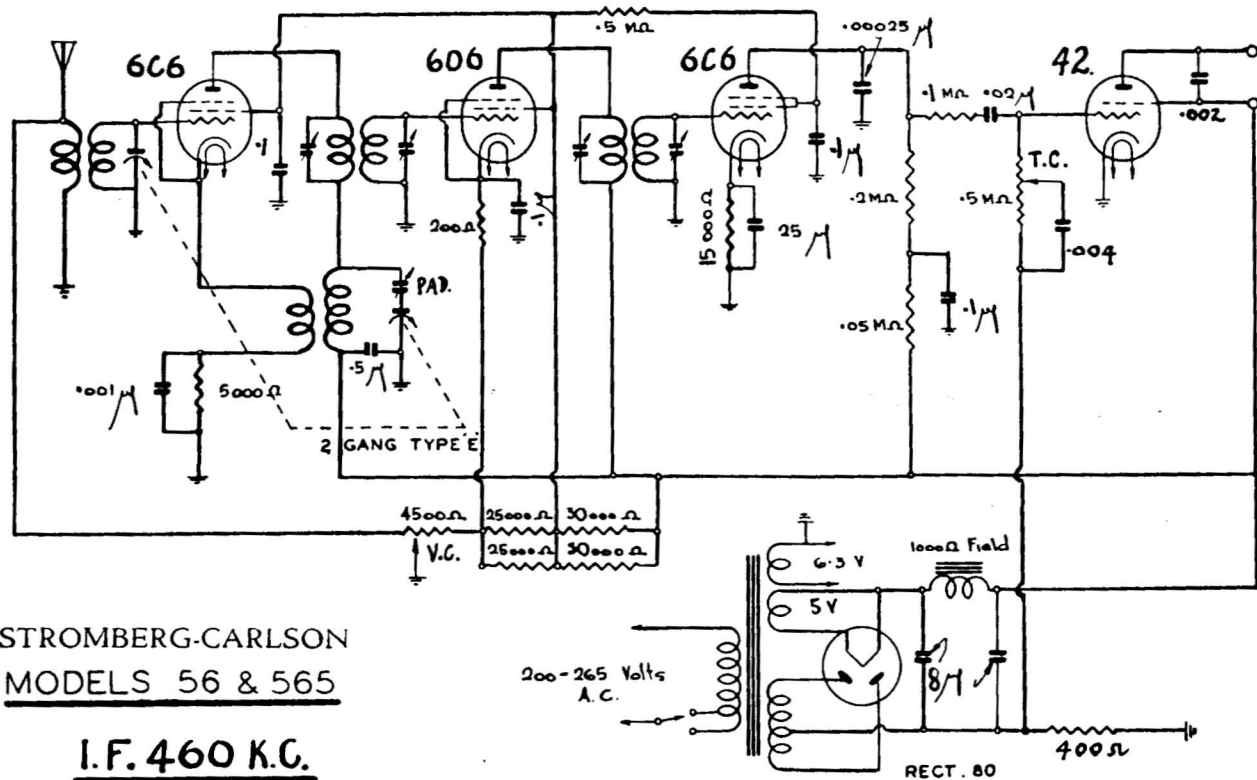
6D6, 460 kC. I.F. Amplifier: Plate, 250 v.; screen, 90 v.; cathode, 3 v.

6C6, "Anode-Bend" Second Detector: Plate, 100 v.; screen, 20 v.; cathode, 3 v.

42, Output Pentode: Plate, 240 v.; screen, 250 v.; grid, -16 v. (from back-bias resistor). Note that both electros. are returned to the negative side of the back-bias resistor.



"Stromberg-Carlson" A.C. Broadcast Mantel 56, Console 565



Introduction to Probability Theory

