

EMERSON RADIO & PHONO. CORP.

MODELS 107, 111

Chassis U6F

VOLTAGE ANALYSIS

Readings should be taken with a 1000 ohms-per-volt meter. Voltages listed below are from point indicated to cathode of the 43 tube (B minus). Line voltage for these readings was 117.5 volts, 60 cycles, a.c.

Tube	Plate	Screen	Cathode	Osc. Plate	Fil.
6A7	99	43	1.1	80	6.3
6K7	99	80	1.8	—	6.3
6H6	—	—	0	—	6.3
6F5	50	—	0	—	6.3
43	87	99	0	—	24

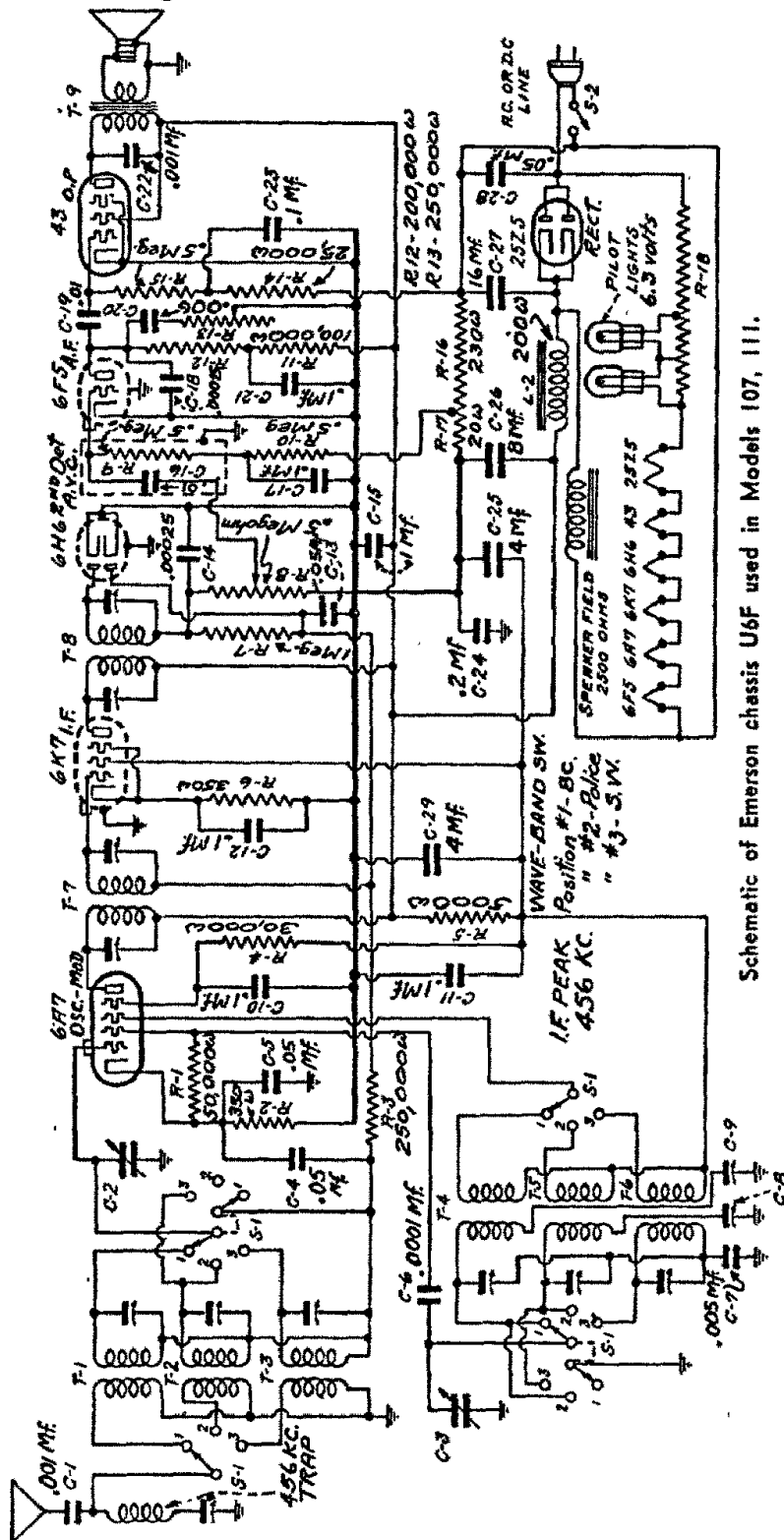
Voltage across speaker field (black and yellow leads)—120

Voltage across filter choke—9.5

The 250 ohm bias resistor, R16 and R17 on schematic diagram, is located underneath the chassis deck in volume control.

Voltage across the two outside terminals of this resistor—11.5

Voltage from cathode of 43 tube to central terminal of resistor—1.0



Schematic of Emerson chassis U6F used in Models 107, 111.

The schematic diagram of the receiver tubes. The output transformer (Part bearing these model numbers, shown on No. 2LT-221 and T-9 on the diagram) *Emerson page 6-15 of Rider's Volume VI*, is for Chassis U6F. A note on that page makes reference to chassis U6F that carries the same model numbers, 107 and 111. This chassis is different and its schematic is shown in the accompanying illustration.

The filament dropping resistor (Part No. 2LR-212) is of the cylindrical plug-in type and is located on top of the chassis between the 6H6 and 25Z5 tubes. The output transformer, part no. 2LT-221 (T9 on schematic diagram) and the filter choke, part no. 2CT-207A (L2 on schematic diagram) are located in the square can on top of the chassis to the left of the speaker.

The various paragraphs under the heading "Adjustments" on Emerson page 6-16 applies to this chassis also, with the exception of the locations of the trimmers for the antenna coils. These are as follows: Short-wave coil, upper trimmer; police band, central trimmer, and that for the broadcast band is the lower trimmer. While adjusting the short-wave antenna trimmer (the upper one) for maximum response, rock the variable condenser.

Voltage rating 105-130 volts ac-de
Current drain 0.43 amps.

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