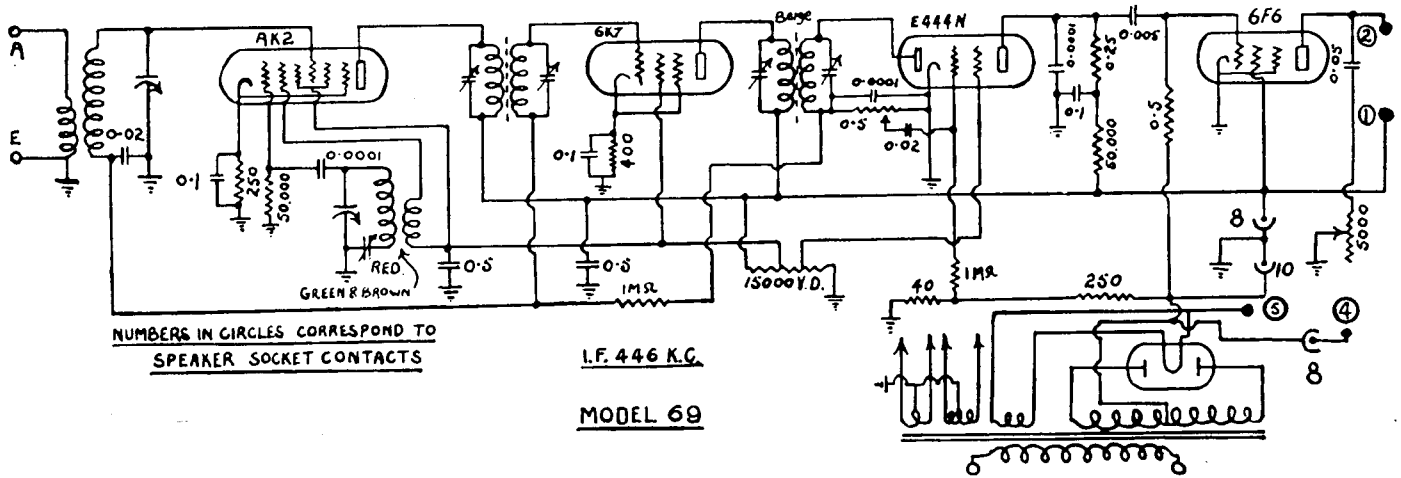


"Breville" A.C. Broadcast Model 69



Breville model 69 is a five-valve receiver designed for broadcast coverage and operation from 220-240 volts A.C. mains. This receiver is of the console type and is fitted with three controls—volume, tuning, and tone (continuous). A 10-inch, 2,000 ohm field, loudspeaker is employed.

The circuit arrangement of this receiver is fairly conventional, although it incorporates one or two interesting features such as the blend of American and European valve types, and the use of "bleed" biasing for both the A.F. amplifier and output valves. A further point of interest in the circuit is the provision of a bridging link in the loudspeaker plug for completing the positive connection to the first electrolytic condenser.

OPERATING VOLTAGES.

The following measurements were made, under "no-signal" conditions, with a "1,000 ohms per volt" meter between chassis and the socket contact indicated:—

AK2, Frequency Converter. Plate, 235 v.; screen, 85 v.; cathode, 1.8 v.; osc. anode grid, 85 v. This valve has a 4-volt heater.

6K7, 446 K.C. I.F. Amplifier. Plate, 235 v.; screen, 85 v.; cathode, 3 v. Heater, 6 v.

E444N, Detector, A.V.C. Rectifier and A.F. Amplifier. Plate, 150 v.; screen, 30 v.; grid, -2.2 v. Heater, 4 v.

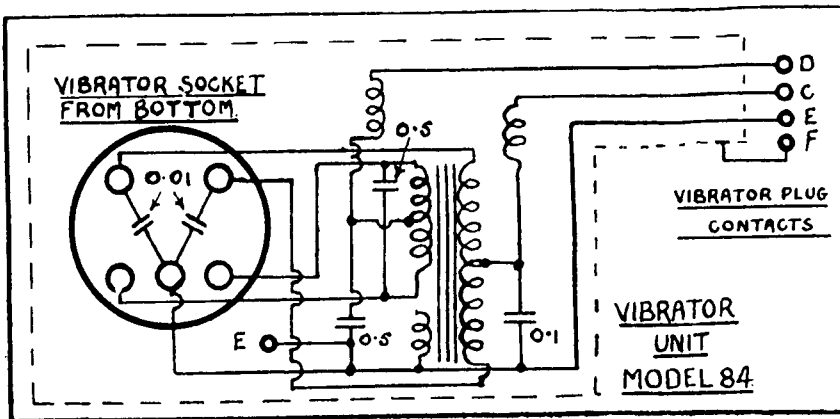
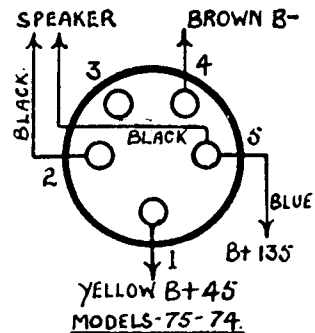
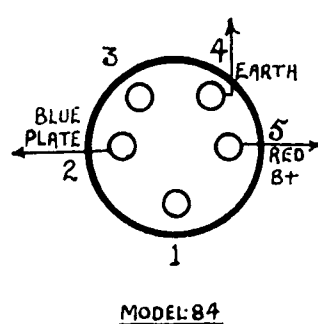
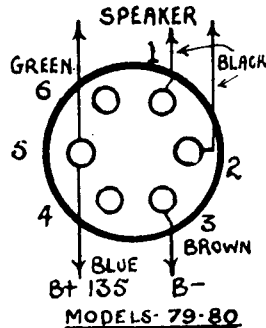
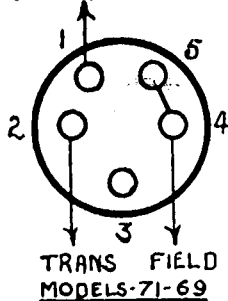
6F6, Output Pentode. Plate, 225 v.; screen, 235 v.; grid, -16 v. Heater, 6 v. Rectifier is a type 80.

BREVILLE COLOUR CODING

A standard system of colour coding was used for the wiring in all of the 1936 series of Breville receivers, and reference to this will simplify checking when servicing these receivers. The colours used are as follow:—

- BLACK:** Earth, heaters, filaments, miscellaneous.
- RED:** "B" positive, rectifier wiring, and filaments.
- BLUE:** Plates.
- YELLOW:** Screens.
- GREEN:** Cathodes.
- BROWN:** Grids and diodes.
- MAROON:** Aerial.

FIELD & TRANS.



BREVILLE

SPEAKER PLUG CONNECTIONS [BACK VIEW]

PIN NUMBERS CORRESPOND TO CIRCLED NUMBERS ON CIRCUITS