

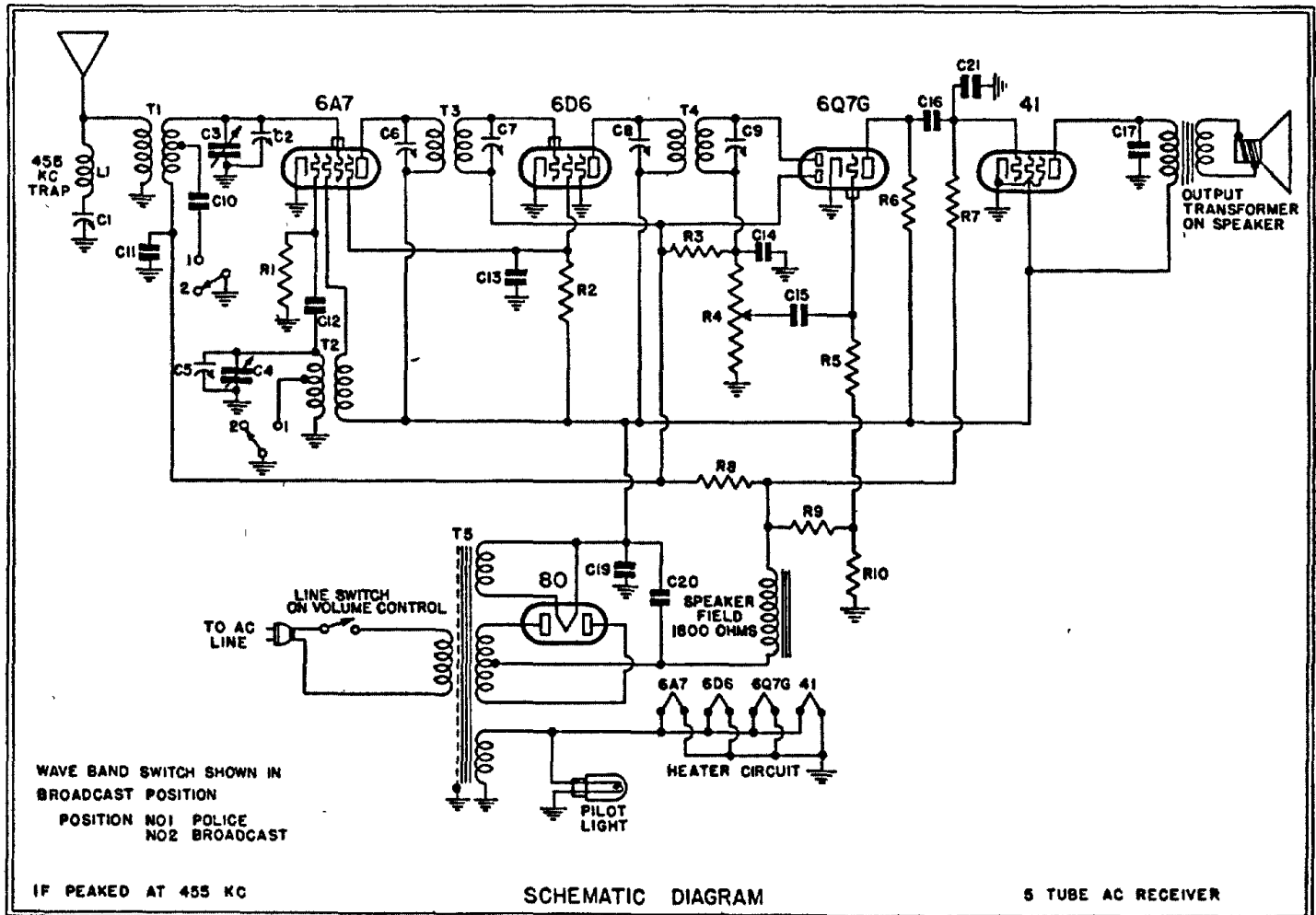
# EMERSON RADIO & PHONOGRAPH CORP.

MODELS BL200, BL210, BL214

Voltage rating ..... 105-125 volts, 60 cycles, a.c.  
Power consumption ..... 45 watts.  
Frequency ranges ..... 540 to 1580 kc. and 1580 to 4200 kc.

CHASSIS MODEL BL

MODELS BL-200, BL-210, and BL-214



Readings should be taken with a 1000 ohms-per-volt meter. Voltages listed below are from point indicated to ground (chassis) with the volume control turned on full and no signal. Line voltage for these readings was 117.5 volts, 60 cycles, a.c. All readings except heaters were taken on 250 volt scale.

Tube	Plate	Screen	Cathode	Osc. Plate	Fil.
6A7	182	70	0	182	6.8 a.c.
6D6	182	70	0	—	6.8 a.c.
6Q7	87	—	0	—	6.8 a.c.
41	165	182	0	—	6.8 a.c.

Voltage across speaker field—70.

Voltage from B minus to chassis—80.

B plus at 80 tube filament—182.

## VOLTAGE ANALYSIS

## GENERAL NOTES

- The wave-trap in the receiver has been adjusted for maximum signal rejection at 455 kc. If, however, persistent interference is experienced from some particular telegraphic station, readjust the wave-trap trimmer until the response from the interfering station is at a minimum.
- The receiver should never be turned on with the 41 tube out of its socket since the rapid rise in rectifier voltage would damage the electrolytic condensers.
- The two i-f transformers are held to the chassis by snap-on fasteners. To remove an i-f, unsolder all its leads under the chassis, pinch together the prongs of the snap-on fastener and lift the i-f can from the chassis.
- The color coding of the leads of the i-f transformers, is as follows:  
Grid—green  
Grid return—black  
Plate—blue  
B plus—red
- The color coding of the power transformer leads is as follows:  
Primary—two black leads  
High voltage sec.—two red leads  
High voltage sec. center tap—red and yellow lead  
6.3 v. sec.—two heavy green leads  
5 v. sec.—two heavy yellow leads
- With a few exceptions, the color coding of the general wiring is as follows:  
Plate—blue  
B plus—red  
Screen—brown  
A.v.c. and cathode—white or yellow  
Grid—green  
Filament and ground—black
- An efficient antenna system is necessary to enable a full realization of the merits of the receiver. For reduction of noise and achievement of high efficiency on all frequency ranges the Emerson All-Wave High-Fidelity Antenna, Model W-78, and the Emerson All-Wave Antenna System, Model W-89, are recommended. Instructions for the installation of these antennas are supplied with each kit.

In congested areas where the installation of a large antenna is not desirable we recommend the use of the Emerson Flexible Mast Antenna, Model W-82. Instructions for the installation of this compact and efficient antenna are supplied with each kit.