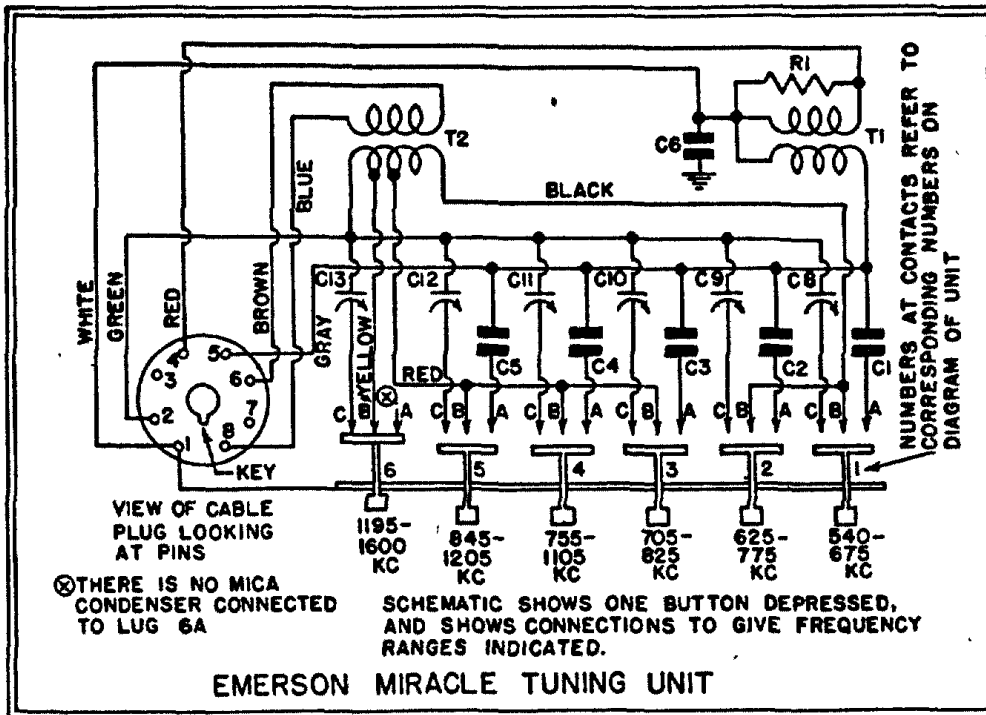
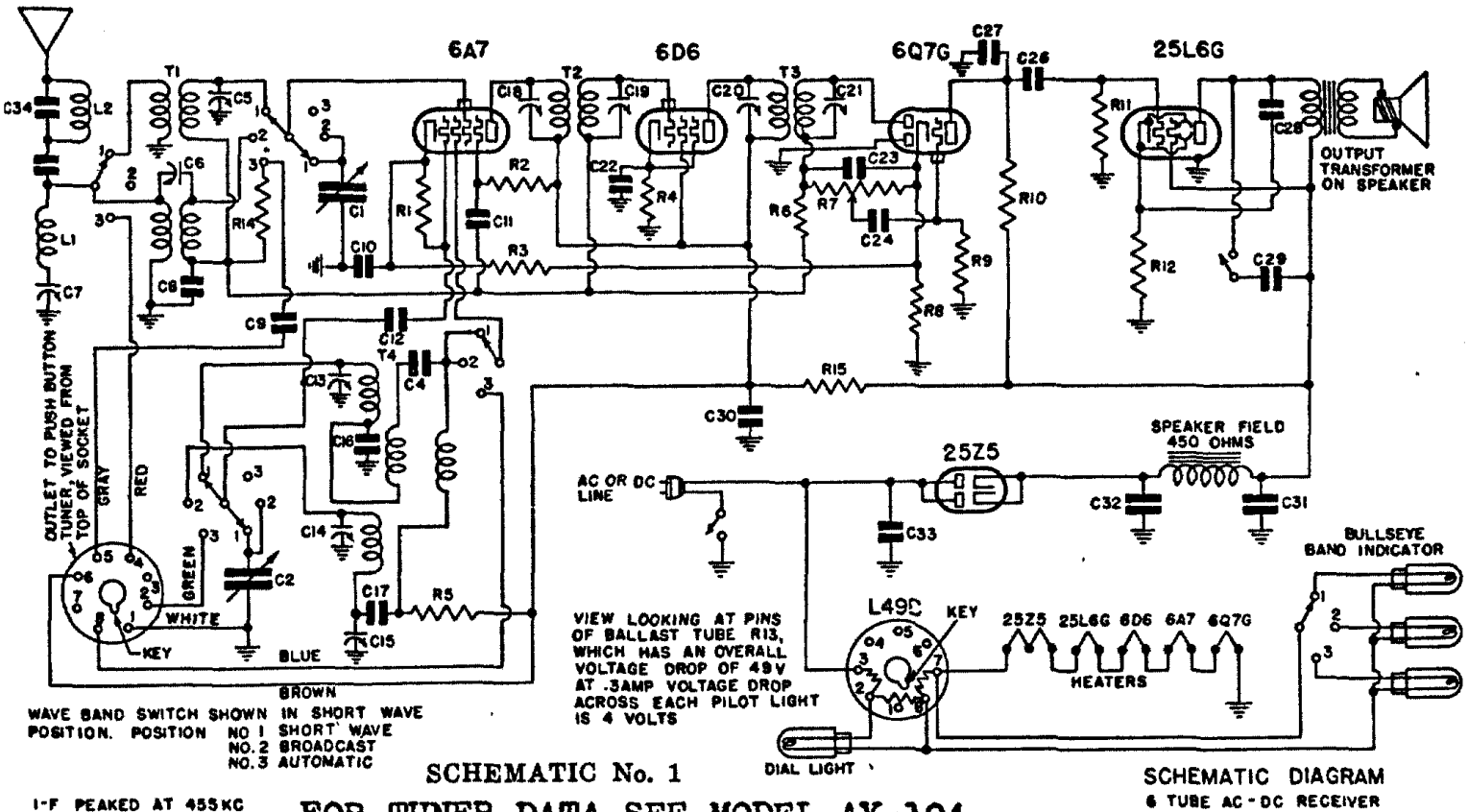


# EMERSON RADIO & PHONO. CORP.

MODEL AV 193



The tube complement is as follows: Tube Data

- 1-6A7, pentagrid oscillator-modulator.
- 1-6D6, first i-f amplifier.
- 1-6Q7G, diode detector, a-f amplifier, a.v.c.
- 1-25L6G, beam power output.
- 1-25Z5, dual half-wave rectifier.
- 1-L49D or L49DG, ballast tube.

All octal-base tubes may be replaced with either metal or equivalent octal-base tubes.

Voltage rating ..... 105-125 volts, a.c. or d.c.

Power consumption ..... 50 watts.

Frequency ranges ..... 540 to 1.730 kc.

and 5.6 to 18.0 megacycles.

MODEL AV-193 CHASSIS MODEL AV

## VOLTAGE ANALYSIS

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. All readings except cathode and heater voltages were taken on 250 volt scale. Line voltage for all readings was 117.5 volts, 60 cycles, a.c.

Tube	Plate	Screen	Cathode	Osc. Plate	Fil.
6A7	104	45	2.3	82	6.8
6D6	104	104	3.8	—	6.8
6Q7G	45	—	1.2	—	6.8
25L6G	95	104	6.2	—	25.0

Voltage at 25Z5 cathode—133 volts.

Voltage across speaker field—29 volts.

Voltage drop across ballast tube (pins Nos. 3, 7)—49 volts.

Voltage drop across pilot light sections of ballast tube (pins Nos. 8, 7); (pins Nos. 2, 8)—4 volts.