

# EMERSON RADIO

## MODEL: 506

CHASSIS MODEL: 120003

FREQUENCY RANGE: 540-1620 kc.

NUMBER OF TUBES: Six.

TYPE OF TUBES:

- 2—6SS7, r-f and a-f amplifiers
- 1—12SA7, pentagrid oscillator-modulator
- 1—12SF7, diode detector, i-f amplifier, a.v.c.
- 1—50L6GT, beam power output
- 1—35Z5GT, half-wave rectifier

POWER SUPPLY: A.C. only, 60 cycles.

VOLTAGE RATING: 105-125 volts.

POWER CONSUMPTION:

- 30 watts for the receiver.
- 20 watts for the phono motor.

The receiver has a self-contained antenna and does not require additional antenna connections. For permanent home installations, however, if it is desired to improve reception of weak stations, an additional outdoor antenna may be used. For this purpose a lead has been brought out of the rear near the line cord.

The self-contained loop antenna has directional properties. It is important, therefore, once the station is tuned in, that the cabinet be rotated on its base back and forth through a quarter of a circle (90 degrees), and left at the position where the station is received with maximum volume.

The color coding of the i-f transformer leads is as follows:

- Grid return—black
- Plate—blue
- Grid—green
- B+—red

- C1, C2
- C3
- C4
- C5, C28
- C6, C29
- C7, C8
- C10
- C11
- C12, C25
- C13, C17
- C14, C18, C19,
- C20, C22
- C15
- C16
- C21
- C23
- C24
- C26
- C27
- C30
- C31
- C32
- C33, C34, C35

- Two-gang variable condenser.....
- 1.6-12 mfd. trimmer.....
- Trimmer, part of C2.....
- 0.00022 mfd. mica condenser.....
- 0.00011 mfd. mica condenser.....
- Trimmers, part of T2.....
- Trimmer, part of T3.....
- Trimmer and fixed condenser, part of T3.....
- 0.02 mfd., 400 V. condenser.....
- 0.005 mfd., 400 V. condenser.....
- 0.002 mfd., 600 V. condenser.....
- 0.05 mfd., 200 V. condenser.....
- Trimmer, part of T1.....
- 8 mfd. 150 V. electrolytic condenser.....
- 0.0004 mfd. mica condenser.....
- 0.1 mfd., 200 V. condenser.....
- 0.00026 mfd. mica condenser.....
- 0.002 mfd., 600 V. condenser.....
- 0.00025 mfd. mica condenser.....
- 0.001 mfd., 600 V. condenser.....
- 0.05 mfd., 200 V. condenser.....
- 0.05 mfd., 400 V. condenser.....
- 20, 40, 80 mfd., 150 V. multiple electrolytic cond.....
- C33—40 mfd., C34—20 mfd., C35—80 mfd..

- R1
- R2
- R3, R5
- R4
- R6
- R7
- R8
- R9
- R10, R16,
- R18, R19
- R11, R20
- R12
- R13
- R14
- R15
- R17
- R21
- R22
- R23
- 1 meg., 1/4 watt resistor.....
- 10,000 ohms, 1/4 watt resistor.....
- 22,000 ohms, 1/4 watt resistor.....
- 33,000 ohms, 1/4 watt resistor.....
- 1,000 ohms, 1/2 watt resistor.....
- 47,000 ohms, 1/4 watt resistor, part of T3.....
- 10 meg., 1/4 watt resistor.....
- 220,000 ohms, 1/4 watt resistor.....
- 470,000 ohms, 1/4 watt resistor.....
- 2.2 meg., 1/4 watt resistor.....
- 47,000 ohms, 1/4 watt resistor.....
- 150 ohms, 1/2 watt resistor.....
- 3.3 meg., 1/4 watt resistor.....
- 2.5 meg. volume control and switch.....
- 100,000 ohms, 1/4 watt resistor.....
- 15 ohms, 1/4 watt resistor.....
- 180 ohms, 1 watt ceramic resistor.....
- 470 ohms, 1 watt resistor.....

