

# MANUAL OF 1946 MOST POPULAR SERVICE DIAGRAMS

## EMERSON RADIO

BATTERIES MUST BE LOCATED EXACTLY AS ILLUSTRATED

### MODEL: 508

CHASSIS MODEL: 120008

#### TYPE OF TUBES:

- 1—1R5, oscillator-modulator
- 1—1T4, i-f amplifier
- 1—1S5, 2nd detector, a.v.c., a-f amplifier
- 1—3S4, pentode output

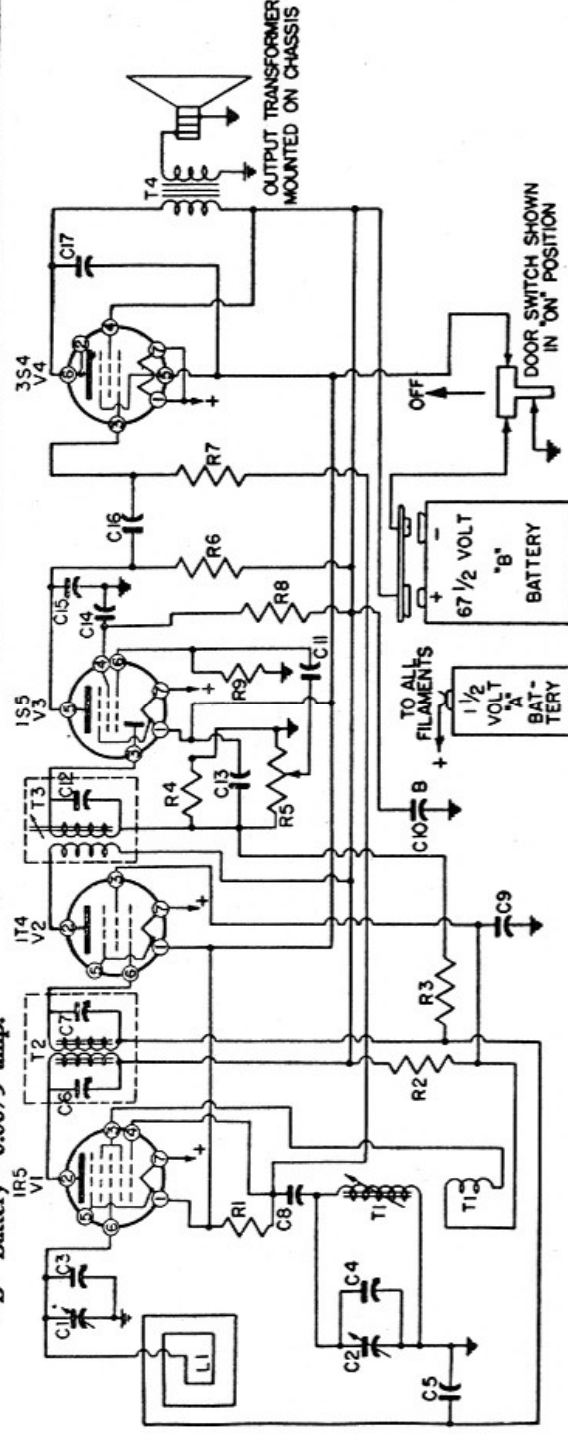
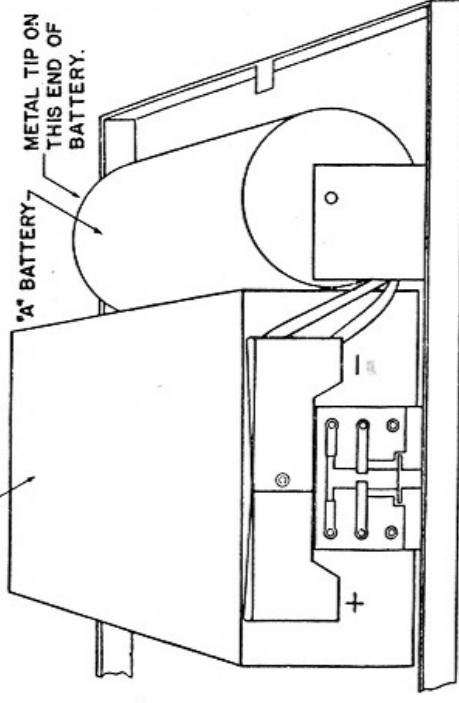
POWER SUPPLY: "A" and "B" batteries.

#### VOLTAGE RATING:

- "A" Battery—1.5 volts
- "B" Battery—67.5 volts

#### CURRENT DRAIN:

- "A" Battery—0.25 amp.
- "B" Battery—0.0075 amp.



C1, C2	Variable condenser, or
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*C3, C4	Trimmers, part of C1, C2
C5, C9, C14	0.02 mfd., 100 V. roll-type condenser
*C6, C7	Trimmers, part of T2
C8	0.0002 mfd. mica condenser, or
C8	0.0002 mfd. ceramic condenser
C10	8 mfd., 100 V. dry electrolytic condenser
C11, C17	0.003 mfd., 150 V. roll-type condenser
*C12	Condenser, part of T3
C13, C15	0.0001 mfd., ceramic condenser
C16	0.001 mfd., 100 V. flat roll-type condenser
L1	Loop assembly
R1	100,000 ohms, 1/4 watt resistor
R2	10,000 ohms, 1/4 watt resistor
R3	3.3 meg., 1/4 watt resistor
R4, R7	1 meg., 1/4 watt resistor
R5	Volume control
R6	0.47 meg., 1/4 watt resistor
R8	4.7 meg., 1/4 watt resistor
R9	10 meg., 1/4 watt resistor

#### Location of Coils and Trimmer Adjustments

The first i-f transformer (T2) is located next to the output transformer (T4). The trimmers (C6, C7) are accessible through holes in the top of the can.

The second i-f transformer (T3) is located between the 1T4 and 1S5 tubes. The single trimming core screw (C12) extends from the end of the can.

The oscillator coil (T1) is located next to the first i-f transformer. The trimmer for the oscillator (C4) is located on the smaller variable condenser section. The 600 kc oscillator core adjustment is the brass screw protruding from the end of the oscillator coil.

The loop antenna acts as the antenna coil. The trimmer for the loop (C3) is located on the larger section of the variable condenser.

TUBE	PIN NUMBER						
1R5	1	2	3	4	5	6	7
1T4		67.5	40	*-7.0		*-0.3	1.5
1S5			40			*-0.3	1.5
3S4	1.5	65	*-7.0	*16.5	*39	*-0.3	1.5

Voltages marked (\*) are taken with vacuum-tube voltmeter.

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