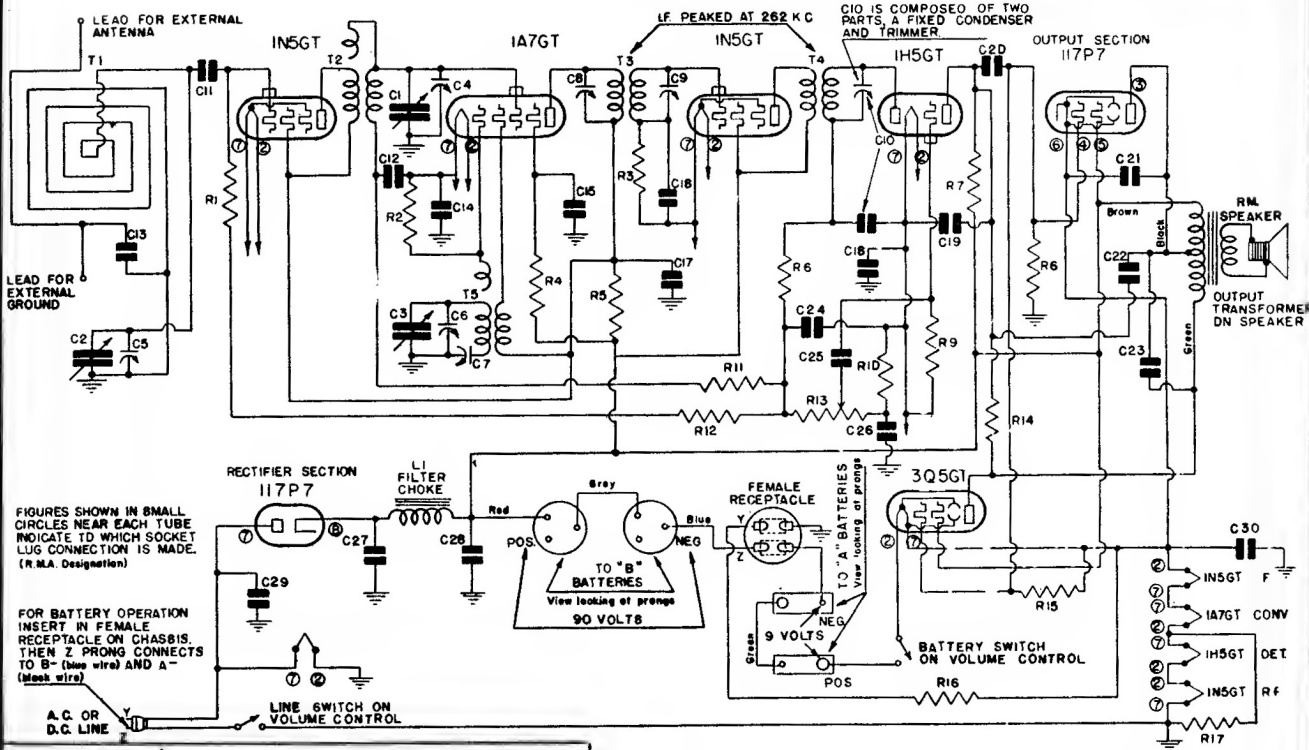


# EMERSON RADIO

# MODELS: FU-424, FU-427 and FU-428



FIGURES SHOWN IN SMALL CIRCLES NEAR EACH TUBE INDICATE TO WHICH SOCKET LUG CONNECTION IS MADE. (R.M.A. Designation)

FOR BATTERY OPERATION INSERT IN FEMALE RECEPTACLE ON CHASSIS. THEN Z PRONG CONNECTS TO B- (blue wire) AND A- (black wire)

A.C. OR D.C. LINE

LINE SWITCH ON VOLUME CONTROL

R1	2 megohm ¼ watt carbon resistor
R2	200,000 ohm ¼ watt carbon resistor
R3	5 megohm ¼ watt carbon resistor....
R4	30,000 ohm ¼ watt carbon resistor
R5	1,000 ohm ¼ watt carbon resistor....
R6	47,000 ohm ¼ watt carbon resistor
R7, R8	500,000 ohm ¼ watt carbon resistor
R9	10 megohm ¼ watt carbon resistor
R10	4,000 ohm ¼ watt carbon resistor
R11, R12, R14, R15	3 megohm ¼ watt carbon resistor
R13	Volume control .5 megohm
R16	1,200 ohm ¼ watt carbon resistor
R17	860 ohm ½ watt wire-wound resistor
C1, C2, C3	Three-gang variable condenser.....
C4, C5, C6	Part of variable condenser.
C7	Padder condenser .....
C8, C9, C10	Trimmers, part of i-f transformers.
C11, C12, C16, C17	0.05 mf, 200 volt tubular condenser
C13, C23, C25	0.002 mf, 600 volt condenser.....
C14, C18, C26	0.25 mf, 100 volt tubular condenser
C15	0.02 mf, 200 volt tubular condenser
C16, C17	0.05 mf, 200 volt tubular condenser
C19	0.0004 mf, 600 volt tubular condenser
C20	0.02 mf, 400 volt tubular condenser
C21	0.01 mf, 400 volt tubular condenser
C22	0.00006 mf, mica condenser.....
C24	0.00011 mf, mica condenser.....
C26	0.25 mf, 100 volt tubular condenser
C27, C28	Dual 20 mf, 150 volt dry electrolytic
C29	0.05 mf, 400 volt tubular condenser.....
C30	40 mf, 25 volt dry electrolytic condenser

## Location of Coils and Trimmer Adjustments

The oscillator coil is located beneath the chassis. The trimmer for the oscillator is on the middle section of the variable condenser.

The interstage coil is the shielded coil located beneath the chassis. Its trimmer is on the front section of the variable condenser.

The trimmer for the loop antenna is on the last section of the variable condenser (the section nearest the loop).

The i-f transformers are mounted on top of the chassis. The first i-f transformer is mounted next to the loop. The second i-f transformer is mounted next to the dial.

The series padder is located between the variable condenser and the shielded 1N5 tube.

Note: This receiver has an i-f of 262 kc.

Swing variable condenser to minimum capacity position.

Feed 262 kc to the grid of the 1A7 tube through a 0.01 mf condenser. Adjust the three i-f trimmers for maximum response.

Set the dial pointer at 140. Feed 1400 kc from the signal generator into a loop of wire about one foot in diameter. Hold this radiating loop approximately one foot away from and parallel to the receiver loop and advance the output of the signal generator until a suitable deflection is obtained on the output meter. Adjust first the oscillator trimmer (middle section) then the interstage and loop trimmers for maximum response. Move dial pointer to 60 and feed 600 kc into the radiating loop and adjust the series padding condenser (while rocking the variable condenser back and forth) for maximum response. Realign at 1400 kc.