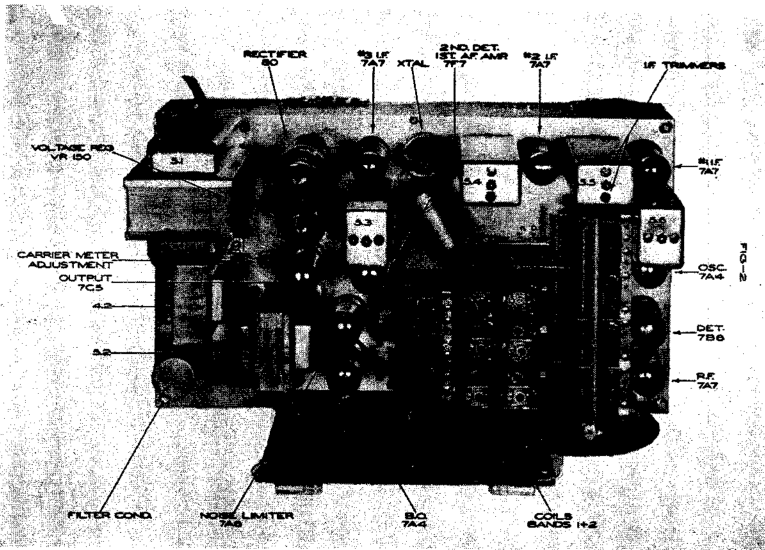
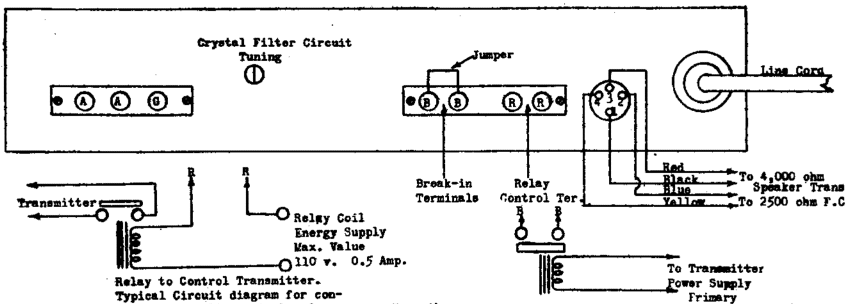


Fig. 1 — Front View

Late Model 99 same as Early Model 99 in Vol. III except that 7A7 tubes were replaced by 7B7 tubes. For Early Schematic, see RME pgs. 12-13.



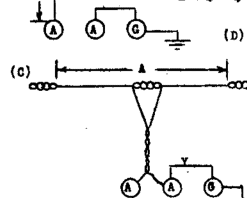
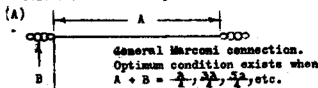
RADIO MFG. ENGINEERS, INC.



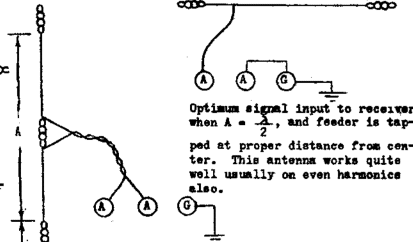
Relay to Control Transmitter. Typical circuit diagram for connecting of relay control. Connect to terminal pair marked "R" on receiver. Relay closes when receiver is on stand-by.

For other data see Volume XII

Typical circuit for remote break-in control of receiver. Terminal pair marked "B" on receiver connect to "B - B". Circuit between "B" pair closed when relay or remote switch is closed during transmitter stand-by periods. Break-in terminal must be shorted if above circuit is not used.



Optimum condition when  $A = \frac{1}{2}$ . Not satisfactory for wide range frequency. Excellent for any amateur band if  $A = \frac{1}{2}$  is in the middle of the band. For example: For 20 meter band antenna should be designed for 14,200 KC. A = Approximately 33 feet, directional at right angle from line of wire. Jumper "J" can usually be omitted



Dimensions same as those of C. Antenna good for one narrow band. (For example amateur band) Is not directional.

Late Model RME99 is the same as the Early model (see Rider's Vol. XII) except that 7A7 tubes were replaced by 7B7 tubes.

TEST VOLTAGES OBTAINED AT VARIOUS POINTS IN RECEIVER CIRCUIT

Measurements made with voltmeter having internal resistance of 1000 ohms per volt. Instruments with other internal resistances give entirely different readings. NOTE: Line voltage should be 115 volts, Stand-by Switch on.

PLACE TEST PROBE BETWEEN	CORRECT VOLTAGE
Radio frequency amplifier plate and ground.....	225 volts
Radio frequency amplifier screen and ground.....	130 volts
Radio frequency amplifier cathode and ground.....	3.5 volts
First detector plate and ground.....	2.45 volts
First detector cathode and ground.....	4.2 volts
First I.F. amplifier plate and ground.....	225 volts
First I.F. amplifier screen and ground.....	130 volts
First I.F. amplifier cathode and ground.....	3.5 volts
The same voltages apply to the 2nd and 3rd I.F. Amplifier stages)	
First detector screen and ground.....	45 volts
First audio amplifier plate and ground.....	130 volts
First audio amplifier cathode and ground.....	1.75 volts
7C5 plate and ground.....	195 volts
7C5 screen and ground.....	210 volts
7C5 cathode and ground.....	10 volts
80 rectifier filament and ground.....	310 volts