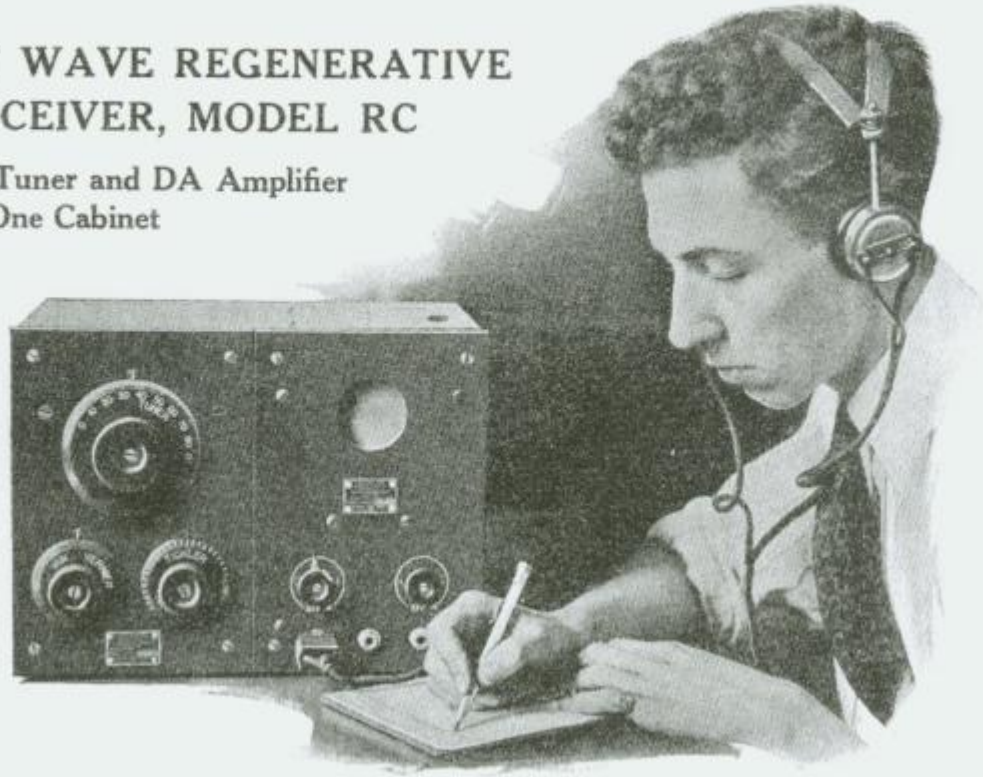
SHORT WAVE REGENERATIVE RECEIVER, MODEL RC

Combining RA Tuner and DA Amplifier in One Cabinet

For Broadcasted news, music, concerts

A Highly Sensitive Long Distance Receiver



THE radio broadcast enthusiast or amateur who desires a modern, compact, portable and efficient receiver for general reception, will find these requisites in Model RC short wave regenerative receiver. It is an ideal instrument for use with loud speaking devices and has already found great favor throughout the entire country.

Long Distance Features

This receiver comprises a combination of the type RA short wave regenerative tuner, and type DA detector and two stage audio frequency amplifier described on preceding pages. Distant radio telephone, amateur and ship stations may be received on any wavelength within the range of 180 to 700 meters. The addition of Load Coil, model CB, allows the reception of signals on wavelengths between 1800 and 2800 meters where an average amateur outdoor antenna is used. This makes the set suitable for the reception of Arlington (Radio, Va.) time signals, which are broadcasted on 2500 meters at noon and 10 p. m., Standard 75° Meridian time, each day over distances of several hundred miles.

Broadcasting may be received on either detector alone or with one or two stages of amplification by simply changing the head telephone plug connection. Where a Vocarola loud speaker is employed, the entire family may enjoy radio concerts without the use of telephone receivers. The set is metallically shielded so as to prevent undesired noises caused by capacity effects between the set itself and the operator's body.

The specifications for this receiver are identical to those of the RA tuner and DA detector and amplifier, with the exception that both units have been incorporated in one cabinet. All binding posts are mounted on the rear of the panel, permitting connections to be readily made. A wiring diagram and complete instructions accompany each instrument.

Dimensions—Height, 9½ in.; depth, 8½ in.; width, 18 in.

Weights—Net, 15 lbs.; shipping, 22 lbs.

Radiotrons Give Best Results

It is recommended that the Radio Corporation's detector and amplifying tubes Radiotron UV-200 and Radiotron UV-201 be used with these instruments.

OPERATING INSTRUCTIONS FOR MODEL RC RECEIVER

Numbers Correspond with Diagram

No. 1. First, refer to accompanying sketch, then erect antenna and place protective device in position as described on page 56.

No. 2. Connect a wire leading to this post from terminal R of protective device.

No. 3. Connect a wire between this post and terminal G of protective device.

No. 4. Turn rheostats as far as they will go toward tail of arrow.

No. 5. Connect positive (+) terminal of 6 volt storage battery to terminal (+A—B. BAT.) of receiver.

No. 6. Connect negative (—) terminal of storage battery to terminal marked (—A. BAT.) of receiver.

No. 7. Connect one positive and one negative terminal of 22.5 volt dry batteries together.

No. 8. Connect remaining negative terminal of 22.5 volt batteries to terminal (+A.—B. BAT.) of receiver.

No. 9. Connect remaining positive terminal of 22.5 volt battery to terminal marked +AMPL. B. BAT.

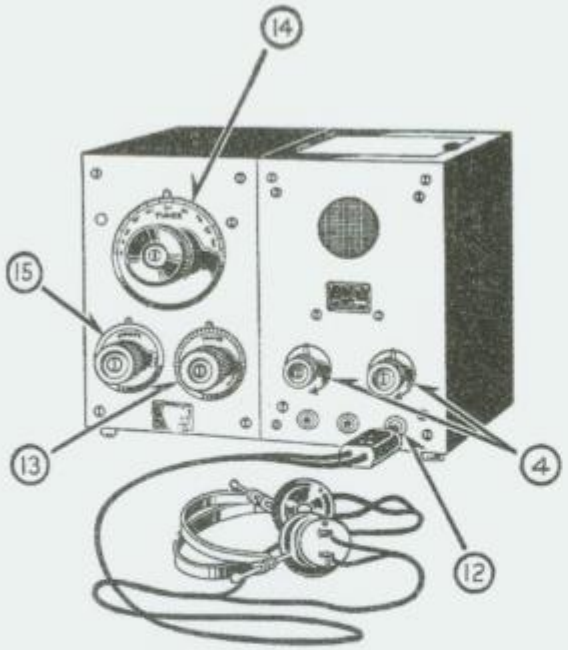
No. 10. Connect terminals marked +DET. B. BAT. and terminal +AMPL. B. BAT., together.

No. 11. Open door in top and insert three radiotron type UV-201 amplifier tubes in sockets. Catch pin inside of tube base with slot in socket, press down and turn into place.

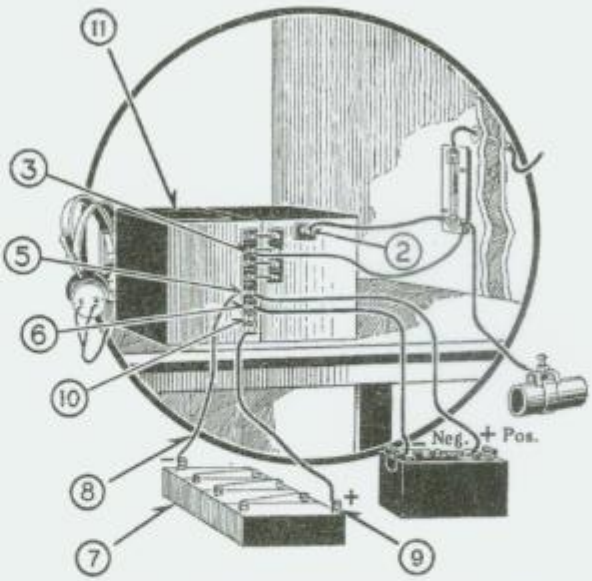
No. 12. Insert telephone plug in right hand jack and turn both rheostats (4) toward point of arrow until all tubes burn brightly.

No. 13. Rotate tickler midway between stops.

No. 14. Rotate tuner knob slowly over scale, listening for sounds in telephone receivers. Receiver is very sensitive to adjustments of the tuner knob and care should be taken not to move it too rapidly or the signal will be lost. Signals on short wave lengths will be received near the lower end of the scale, whereas the wave length increases toward the upper end of the scale. Broadcasting stations are generally tuned in between 20 and 40. When the signal is heard its intensity may be increased by manipulating "Vernier" in one direction or the other and by adjusting the tickler (13). Further adjustment may be made by manipulation of the filament rheostats (4).

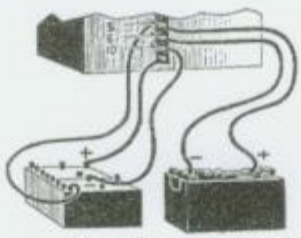


Text numbers correspond with above diagram.



Text numbers correspond to above diagram.

For those who desire to operate with a soft type detector tube, radiotron UV-200 may be inserted in the socket at the rear of the cabinet instead of the UV-201, but it is then necessary to alter the connections as illustrated below.



Method of connecting Filament and Plate Batteries.

Complete Short Wave Regenerative Receiver with Detector and Two-Stage Amplifier, 170-700 meters, Model RC, with Load Coil, one Radiotron Detector Tube, two Radiotron Amplifier Tubes, one six-volt Storage Battery Model 6HR-9, Telephone Plug, two "B" Plate Batteries, Vocarola Loud Speaker, Rectigon Battery Charger (5 ampere size), Receiving Antenna Equipment, and Full Instructions $261.75

Short Wave Regenerative Tuner, Model RC, less all above Equipment, $132.50

Dimensions—9½ in. by 8½ in. by 8⅛ in.

Weights—Net, 15 lbs.; shipping, 22 lbs.; with above Equipment, 150 lbs.

NOTE—For prices of other Complete Receiver Combinations, see page 35