

INSTRUCTIONS FOR INSTALLING AND OPERATING THE "RADIOEAR" CRYSTAL RECEIVING SET

ANTENNA Select some elevation such as a tree or house located, if possible, about 100 or 150 feet from the building in which you intend to use the set. Stretch a No. 14 bare copper wire from the tree or house to the top of the building in which the set is located, making sure to use insulators where the wire is fastened to both points of elevation. Continue this wire down to the window of the room where the set is to be operated. A few feet outside of this window, attach to the bare wire, a length of rubber covered wire. Carry this rubber covered wire into the building through an insulated opening and attach the lower end of the wire to the binding post on the set marked "A." Your Antenna is now complete.

GROUNDING. First, attach a ground Clamp to the nearest, radiator, water pipe or Gas pipe, making certain that the surface of The radiator or pipe is cleaned with a piece of sandpaper or a file. Now run a piece of wire from the binding post of the set marked "G" to the ground clamp.

TELEPHONE RECEIVERS. Attach tips to binding posts marked "F."

OPERATION. First, insert the Inductance Coil into the coil mounting switch, "C." To adjust the DETECTOR, move the small

knob on the top of the DETECTOR until the fine spring wire or "cat whisker" inside the glass lightly touches the crystal making certain, while doing this, that you hold down the button which operates the buzzer. As soon as the "cat whisker" touches a sensitive point on the crystal, you will hear the buzzer through the head set. Now, turn the knob so that the pointer swings across the graduated scale from 0 to 180 degrees. In case no radio signals are heard while turning the pointer across the dial, swing the coil from the point marked "S" to the point marked "P." or vice versa.

With the coil in this position, turn the knob so that the pointer goes back from 180 to 0 degrees. If no radio signals are heard as a result of the above tests. It is proof that no transmitting station is operating within your range. In case radio signals are heard during this test, stop the pointer at the place on the scale where the signals are heard the loudest.

By inserting the proper coil, this set will receive amateur signals on 200 meters; commercial and radio-phone signals on 300 to 1,200 meters; Arlington time signals on 2,500 meters; and any other signals that a crystal set is capable of receiving, regardless of the wave-length.

An approved protective device should be placed on the outside of the building in the circuit between the antenna and the set for the purpose of grounding the set when not in use.

Patented Jan. 21, '08; Nov. 17, '08; June 15, '09; Sept. 7, '09; July 21, '14; Sept. 8, '14; Nov. 24, '14; April 27, '15; Jan. 23, '17. Other patents pending. Licensed for amateur, experimental, or entertainment purposes only. **Any other use will constitute an infringement**

STANDARD RADIO & ELECTRIC COMPANY, PAWTUCKET, R. I.