

INSTRUCTIONS AND  
SUGGESTIONS FOR  
INSTALLING THE

# **Radiola IX**

IN PHONOGRAPHS



This symbol of quality  
is your protection

Radio Corporation of America

233 Broadway

New York, N. Y.



The Radiola IX as installed in Victor Victrola Model 220. The phonograph reproducer and the radio loud-speaker unit are easily interchangeable on the tone arm.

## INSTRUCTIONS AND DIRECTIONS FOR THE INSTALLATION OF THE RADIOLA IX IN PHONOGRAPHS

The Radiola IX was developed as a result of the wide-spread demand for a high grade radio receiving set which could be used in conjunction with most types of upright and console phonographs without altering appreciably their exterior appearance. The lateral dimensions of the panel can be varied within certain limits so that the set may be accommodated in most phonographs. The thickness of the panel including the tubes is only  $3\frac{3}{4}$ " so that very little space is occupied in the console type of phonograph and so that it is possible to insert the panel in the lids of various styles of upright phonographs.

There are three models of the Radiola IX, as follows:

Model 1395, for lids of Columbia, Type G-2 phonographs.

Model 1398, for lids of Victrolas, Type VV-100.

Model 1396, Universal panel 18 x 18, which can be trimmed to any proportions down to  $14\frac{1}{4}$  inches wide by 13 inches high, for installation in console type phonographs.

All three types of the Radiola IX are shipped in individual cardboard cartons on the outside of which appear the above model numbers. Each set comes complete with a metal battery box, 6 UV-199 Radiotrons, a cable for battery and loud speaker connections, and a phonograph attachment which is placed on the tone arm in place of the reproducer. An adapter for the loud speaker, battery connectors, brackets, screws and other necessary parts for installing this set are in envelopes in the battery box. With the models 1395 and 1398 there is in addition a cardboard template which is used as a pattern for the proper locations of the four holes in which are placed the bushings to hold the panel in place.

In this type of installation it is necessary that the lid of the phonograph be removed entirely. The lid is placed right side up and the template secured on top of it. Care must be taken at this point to be sure that the side of the template labeled "Hinged end"



The Radiola IX as installed in Victor upright Model VV-100 or Columbia Model G-2. The reproducer and loud-speaker unit are interchangeable at will.

is placed at the side of the lid which is fastened to the hinge. The centers of the holes to be bored can be marked in the cover through the template by the use of a center punch or some sharp pointed instrument. Holes should then be made with a  $9/32$ " drill. Figure 1 shows how the template should be placed on the lid.

After the holes have been drilled they should be enlarged slightly with a small rat-tail file and the four brown metal bushings inserted. After these have been pushed into place, and they should fit quite snugly, the four brackets to which the panel is to be fastened should be secured by the four machine screws. The two high brackets should be placed at the front or top side of the lid and the two smaller ones at the hinge end.

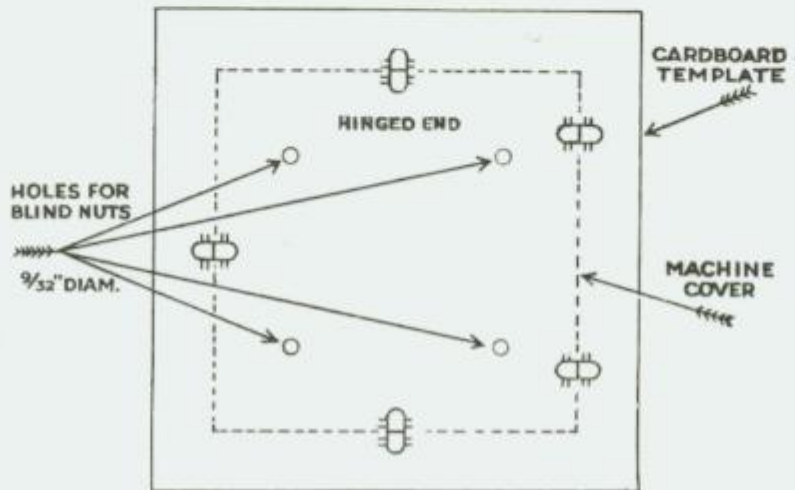


Fig. 1.

The next step is to connect the cable wires to the terminal board at the rear of the panel. This should be done in accordance with the color scheme as shown on page 3 of the Radiola IX instruction book. The small tie wire should be secured by one of the small wooden screws at either end of the terminal board. It may be necessary to discard one or both of the lock washers under the screw when the metal loop at the end of the tie wire is substituted for them. Care must be taken that the screws on the terminal board are backed off far enough to permit the lugs on the wires to slip completely under them. They should then be turned down quite firmly.

It must be remembered that if any error is made in connecting the wires to the terminal board the set may be badly damaged. Extreme care therefore must be taken in matching the colors.

A hole  $\frac{5}{8}$ " in diameter must now be drilled through the back of the cabinet directly below the terminal board corner of the panel. This hole should be drilled through from the outside of the cabinet, at a slightly upward angle so that the drill will clear both the moulding on the outside of the cabinet and the floor of the turn table



The Radiola IX can be installed vertically in the left side, or record storage space, with the batteries behind it.

compartment. Two nickel-plated escutcheon plates are supplied with the set which should be placed on the outside and the inside edges of this hole through which the cable will pass to the battery box.

The lid can now be placed on the cabinet and in the case of the Victor Model 100 the same lid support rod can be used. With

the Columbia Model G-2, however, the new support rod which is ornamental metal strips and four cornerpieces with copper tacks supplied with the set must be substituted for the original one. Four for the former and screws for the latter are included among the accessories. These strips should be placed over the edge of the panel to cover the space between the panel and the lid. One cornerpiece has an inwardly curved corner to accommodate the cable. The second rounded piece is placed in the other lower corner and the other two are placed above. Care must be used in installing these strips so that they will not bulge.

Directions for connecting the batteries in the battery box to the cable are shown on page 3 of the Radiola IX instruction book. After these have been connected, the ground wire installed, and the tubes placed in the sockets the set is ready for operation.

To connect the loud speaker to the tone arm it is necessary to turn the reproducer slightly and pull it off gently by twisting it slightly from side to side. The loud speaker unit has an adapter which is screwed to the face; this can be slipped over the tone arm.

The model 1396, known as the Universal Model, may be installed in most console phonographs. It is advisable when possible to install the panel in a horizontal position with the battery box placed below in the record storage space. This arrangement does not take up all of this space and some of it may still be used to hold records. If the set is installed vertically in the front of the record storage space it is impossible to use this for records.

Special adapters for the loud speaker are necessary for installation in phonographs other than the Columbia and Victor.