

INSTRUCTIONS

PHILCO

Balanced-Unit

RADIO

Models 70, 70A and 70E

THESSE models are complete AC electric screen grid superheterodyne Receivers using the new Philco electro-dynamic Speaker.

The Receiver is shipped with the tubes installed in their respective sockets. Before inserting the attachment plug of the Receiver in the A.C. line outlet, see that all the tubes are seated in their sockets and that the speaker plug is connected to the Receiver (see Fig. 1). The terminals of the four wires must be connected to the terminals on the top of the screen grid tubes. The tube shield must be in place over the tubes as shown in Fig. 1. Connect only to a source of alternating current within the limits of volume and frequency (cycles) as listed in the license notice on the radio chassis.

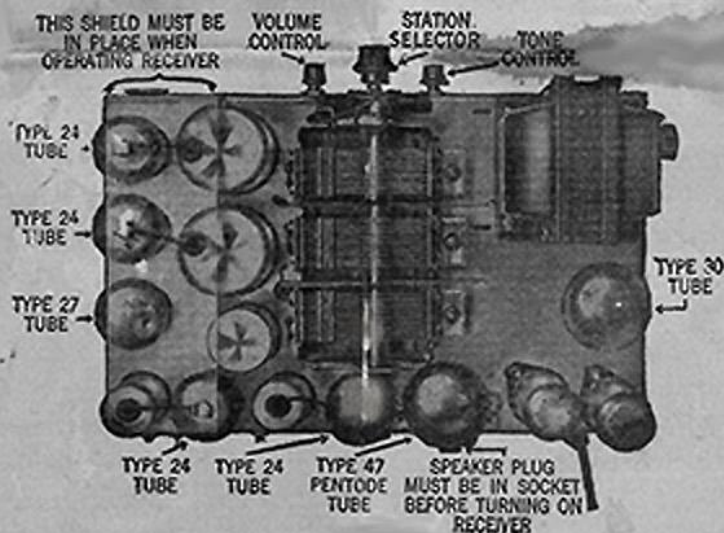


Fig. 1

Seven tubes are supplied. They are:

- 4 Philco type 24 screen grid tubes
- 1 Philco type 27 tube
- 1 Philco type 47 Pentode power amplifier tube
- 1 Philco type 80 rectifier tube

Use only Philco tubes in this Receiver for 100 per cent. balanced-unit performance.

PHILCO RADIO INSTRUCTIONS

Aerial

An outdoor aerial, consisting of a single copper wire 50 to 100 feet long, usually gives the best results. The lead-in wire is an active part of the aerial, and the aerial length should always be measured from the Receiver to the insulator at the far end. The outer end of the aerial should be as high as possible and the entire aerial should be spaced well away from trees and buildings and supported by glass or porcelain insulators.

Good results can also be obtained with an indoor aerial 25 feet or more in length. A shorter aerial usually will not be satisfactory.

Ground

A suitable ground clamp and lead must be securely attached to a radiator pipe or water pipe and the bare wire end connected to the "GND" terminal.

Operating the Receiver

After all connections have been made, turn the "on-off" switch clockwise. After the tubes heat up, turn the volume control clockwise about one-half the total range of movement. Turn the station selector and different stations will be tuned in at various points on the scale.

The tone control enables the user to adjust the tone quality of the reception from any broadcasting station to suit his taste. With this control it is possible to compensate for differences in the quality of broadcasting from different stations and for differences in the human ear.

The figures on the Philco scale represent channel numbers which, by the addition of a cipher, correspond with the station broadcast frequencies in kilocycles as listed in newspapers and other station logs. For example: 85 on the scale represents channel 85 and a frequency of 850 kilocycles.

Tune the desired station accurately to the point where it is clearest, and reduce or increase the volume with the volume control—never by detuning, as detuning will spoil the tone quality.

PHILADELPHIA STORAGE BATTERY COMPANY

Ontario and C Streets

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