

I N S T R U C T I O N S

PHILCO ^{Balanced-Unit} RADIO

REG. U.S. PAT. OFF

Model 71 Series

THESSE models are complete AC electric superheterodyne Receivers using the new Philco high efficiency tubes and the improved new Philco electrodynamic speakers.

The Receiver is shipped with the tubes installed in their respective sockets. Before placing the receiver in operation, be sure that the packing material around the tubes is removed, and that the radio chassis hold down bolts are loosened. Before inserting the attachment plug of the Receiver in the A.C. line outlet, see that all the tubes are properly seated in their sockets. The terminals of the three 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 voltage and frequency (cycles) as listed in the license notice on the radio chassis.

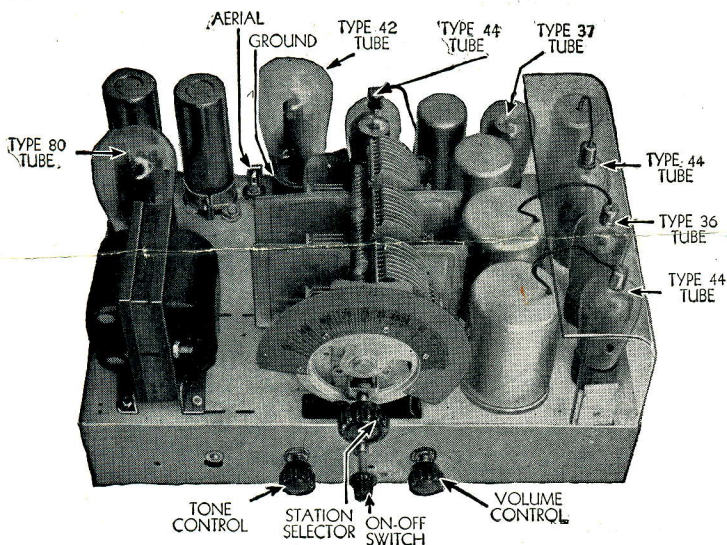


Fig. 1

Seven Philco high efficiency tubes are supplied. They are:

- 1 Philco type 36 screen grid tube
- 3 Philco type 44 super control pentode tubes
- 1 Philco type 37 tube
- 1 Philco type 42 Pentode power amplifier tube
- 1 Philco type 80 rectifier tube

Use Only Philco Tubes in This Receiver for 100 Per Cent. Balanced-Unit Performance

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.

PHILCO RADIO INSTRUCTIONS

Ground

A suitable ground clamp and wire 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.

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.

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.

Automatic Volume Control

The automatic volume control incorporated in this Receiver tends to equalize the volume of all stations at the sound level for which the manual control has been set. This prevents the blaring of strong stations during tuning and reduces the fading of distant stations. With the volume control in a given position, the reproduction will not vary greatly in volume, even if the tuning is changed from a weak station to a strong one, or vice versa.

Control of Station Tone

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 left position of the control emphasizes the high notes, and thus makes speech particularly sharp and clear. The right position of the control places more emphasis on the lower notes. This setting will reduce static and interference noises.

Service

Should your Philco ever require service attention, be sure that such servicing is done by an authorized Philco Dealer or Philco Service Station and that all tubes and parts used for replacement purposes are genuine Philco parts. Only with Philco parts can the Philco give its original quality performance.

Standard Warranty

We warrant each new Radio Receiver and Speaker manufactured by us to be free from defects in material and workmanship under normal use and service, our obligation under this warranty being limited to making good at our factory or factory depots any part or parts thereof which shall, within ninety (90) days after delivery of such Receiver to the original purchaser, be returned to us with transportation charges prepaid, and which our examination shall disclose to our satisfaction to have been thus defective; this warranty being expressly in lieu of all other warranties expressed or implied and of all other obligations or liabilities on our part, and we neither assume nor authorize any representative or other person to assume for us any other liability in connection with the sale of our Receivers or Speakers.

This warranty shall not apply to any Receiver or Speaker which shall have been repaired or altered outside of our factory or factory depots in any way so as, in our judgment, to affect its stability or reliability, nor which has been subject to misuse, negligence, or accident, nor which has had the serial number altered, effaced, or removed. Neither shall this warranty apply to any Receiver or Speaker which has been connected otherwise than in accordance with the instructions furnished by us.

PHILCO—PHILADELPHIA—TORONTO—LONDON