

PHILCO RADIO
MODEL 46-420 or 46-420I



Famous for Quality the World Over

INSTRUCTIONS

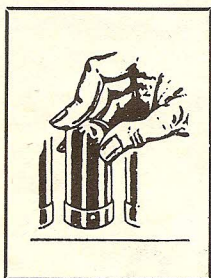
for

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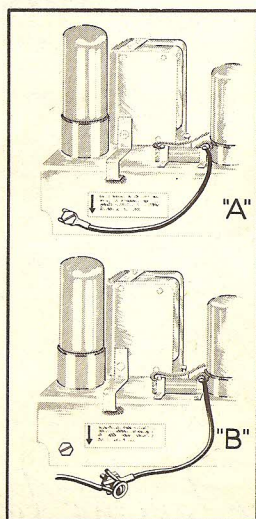
This Philco radio is a six-tube superheterodyne receiver, designed for operation on a power supply of 115 volts, alternating current (A.C.), or direct current (D.C.). It has a tuning range in the broadcast band from 540 to 1620 kilocycles (kc.). The tuning scale, calibrated in kilocycles, has the final zero omitted to permit easier reading. For example: 1000 kilocycles will read on the tuning scale as "100."

INSTALLATION

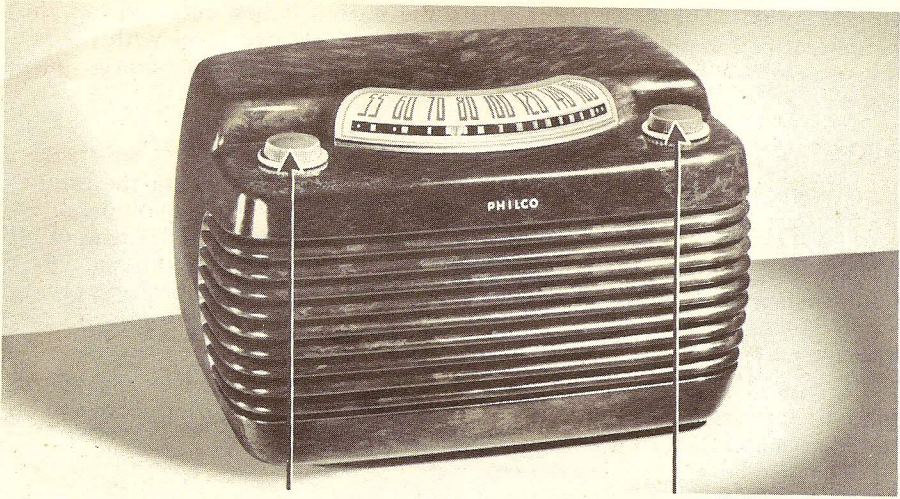


AFTER UNPACKING the receiver, remove all packing material, packing tags, cardboard, etc., from the chassis and cabinet. Follow carefully any supplementary instructions which may be printed on the tags. Make sure that all tubes are pushed down firmly in their correct sockets. The proper locations of the various types of tubes are indicated on the tube label attached to the cabinet.

A LOOP-TYPE AERIAL, built into the cabinet, provides excellent reception in most locations. For maximum performance in steel-reinforced buildings and other shielded locations, or when extremely distant reception is required, the use of a good outdoor aerial, such as the Philco Aerial, part no. 40-6383, is recommended. Complete installation instructions are given with the aerial. A connector, secured to the chassis by a screw and located in the lower left-hand corner at the back as shown in drawing "A," offers a convenient method of attaching the aerial. Simply remove the connector from under the screw and attach the lead-in, as shown in drawing "B." If it is impractical in your location to install an outdoor aerial, a wire approximately 20 feet long may be placed around the baseboard or under the rug and attached to the connector. This indoor aerial may give satisfactory reception but will not be as efficient as an outdoor aerial. If the radio is again to be operated with its built-in aerial, be sure and replace the connector lug under the screw on the chassis and tighten firmly. With this model, a ground connection is unnecessary at any time.



OPERATION



OFF-ON SWITCH
AND
VOLUME CONTROL

TUNING
CONTROL

OFF-ON SWITCH AND VOLUME CONTROL

This control operates the OFF-ON switch and VOLUME. The OFF position for this control is at the extreme left. To turn the radio ON, the control must be rotated to the right until a click is heard and the tuning scale is illuminated; further rotation to the right increases the volume.

DIRECT CURRENT

If your house current is D.C. and no sound is heard after the tubes are sufficiently heated, reverse the electric plug in the outlet. The same procedure is advised if your power supply is A.C. and a slight hum is heard with the volume turned low.

TUNING CONTROL

This control selects the various stations in the broadcast range, the frequencies of which are indicated on the tuning scale.

OPERATING PROCEDURE

1. Turn the radio ON by rotating the OFF-ON-VOLUME control to the right until a click is heard and the tuning scale is illuminated. Continue the rotation to a point midway between OFF and full volume positions.
2. Allow a short time for the tubes to heat, then rotate the TUNING control to the left or right until the indicator on the tuning scale is at the frequency of the station desired.
3. Adjust both VOLUME and TUNING controls until the station is heard. Reception of other than local stations will be affected greatly by distance, atmospheric conditions, and time of reception (day or night).

IMPORTANT

When tuning a radio with the VOLUME control turned too high, it is difficult to locate the point where the station is exactly tuned in. If the station is not tuned in properly, one or more of the following conditions may be noticed:

1. Distortion (poor tone quality).
2. Interference from other stations operating on an adjacent frequency or wavelength.
3. An increase in noise (static) either atmospheric or from some local electrical noise-producing device.

3. Adjust both VOLUME and TUNING controls until the station is heard. Reception of other than local stations will be affected greatly by distance, atmospheric conditions, and time of reception (day or night).

The above is a preliminary tuning; for best reception, reduce the

volume by turning the volume-control knob to the left until the station is barely audible. Now carefully retune the desired station with the tuning-control knob. The exact point where the station is best received can thus be determined easily. Adjust the volume to the desired level with the volume-control knob. *Do not reduce volume by changing the tuning-control setting.*

DIRECTIONAL AERIAL EFFECT

When operating the radio with the built-in aerial, turning the cabinet in different positions on the table will cause a variation in the volume of reception, especially on weaker stations. This directional effect is true of all built-in aerials of the "loop" type. In some cases, this directional effect will also reduce noise interference. Operate the radio in the position giving ample volume and least noise. *This position will vary slightly for different stations.*

A considerable decrease in reception may be observed when the radio is placed near large metal objects. Care should be taken to locate the radio so as to minimize this effect.

YOUR GUARANTY FROM PHILCO

Your new Philco is a Musical Instrument of Quality. It has been built with care and skill and enters your home with a promise of years of pleasure and satisfaction.

To fulfill that promise, first of all, your Philco is guaranteed under the terms of the Standard Warranty below. But beyond this, Philco maintains an extensive factory-trained service organization of its distributors, dealers and servicemen, which is constantly available to you as a Philco owner. It is an added value which comes to you with every Philco product.

In accordance with this policy, it is your Philco dealer's desire and responsibility to render any service required under and during the period of the warranty. After the expiration of the warranty, he will be equally helpful in securing necessary repairs and adjustments for you, either in his own shop at reasonable cost or by referring you to a nearby member of "Philco Service," a world-wide association of appliance servicemen.

PHILCO SERVICE members are thoroughly trained by Philco factory engineers and service technicians. They offer expert, reliable service at standard, reasonable labor charges; they guarantee their work, and they use genuine Philco replacement parts and tubes. Members can be identified by the "Philco Service" emblem.

Thus, the entire engineering and service resources of Philco seek to insure your long-continued satisfaction.



Look for this
Emblem in your
Neighborhood

STANDARD WARRANTY

"We warrant each new Philco Radio Receiver and Speaker 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 depot any part or parts thereof which shall, within ninety (90) days after delivery of such Receiver to the original retail purchaser, be returned to our depot 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 Receivers or Speakers.

This warranty shall not apply to any Receiver or Speaker which shall have been repaired or altered other than by us 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 RADIO AND TELEVISION CORPORATION

PHILADELPHIA