

INSTRUCTIONS FOR

PHILCO 37-11



AMERICAN AND FOREIGN RECEIVER

WITH

AUTOMATIC (DIAL) TUNING



A MUSICAL INSTRUMENT OF QUALITY

INSTRUCTIONS
FOR INSTALLING AND OPERATING

PHILCO 37-11

DESCRIPTION

Philco Model 37-11 is a superheterodyne receiver for use on alternating current (A.C.). It employs the new Philco High-Efficiency self-centering glass tubes and is designed to receive standard American broadcasts, and American and Foreign short-wave broadcasts up to 22.0 megacycles (22,000 kilocycles). Amateur, Ship and Aircraft Stations, and U. S. Police Calls, are all included in the tuning ranges of this model.

This model incorporates the 1937 Philco development "Automatic Dial Tuning" which enables you to select your favorite station in an instant. "Magnetic Tuning" (on Standard Broadcasts) is another valuable new feature of this model. Its use assures correct tone of reception because it automatically overcomes incorrect tuning. (Detailed description on Page 5.)

To get the full performance that is built into this receiver by Philco, please read and follow these instructions as carefully as possible.

INSTALLATION

Aerial and Ground

To enable you to get the full performance your set was designed to give, Philco engineers have perfected a scientifically designed aerial known as the Philco High-Efficiency Aerial. This aerial gives equal high-efficiency response on all three tuning ranges of this receiver.

It is important to use the Philco High-Efficiency Aerial since this aerial was designed for use with the "Philco Foreign Tuning System," the newly perfected development of design and construction used in all the new Philco American and Foreign receivers.

Another feature of the Philco High-Efficiency Aerial is that it greatly reduces any noise that might be caused by electrical appliances or equipment in the vicinity. This noise-reduction feature is equally effective on all tuning ranges.

A terminal panel (see Fig. 1) is provided at the rear of the chassis for connecting the aerial. This panel contains four screw terminals, two of which (Nos. 3 and 4) are connected by a metal strap when the set is shipped. When using the Philco High-Efficiency Aerial, connect the red and black terminals of the aerial "transmission line" (lead-in) to terminals 1 and 2 respectively.

If you must use a temporary aerial, shift the connector strap to rest across terminals 2 and 3 (shown by dotted lines), and connect your aerial and ground to terminals 1 and 3 respectively.

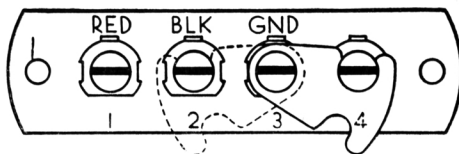


Fig. 1

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A good ground connection is desirable in all installations—with the Philco High-Efficiency Aerial, a ground lead and ground clamp are provided. Make the ground connection from the nearest water or radiator pipe to terminal 3 on the terminal panel (Fig. 1).

Other Preliminaries

Locate the radio at a suitable place in the room, with due consideration to convenience of operation, appearance, tone, and handy connection to the aerial and an electric supply outlet. For best tone, the back of the set should be a short distance from the wall.

Remove all cardboard packing material, packing tags, etc., from the chassis. Place the knobs (furnished in the envelope with these instructions) on the control shafts. The illustration, Fig. 2, will show you which knob goes on which shaft. The flat portion of the knob-hole must be next to the flat portion of the shaft. Push the knobs (except the small "slow-speed" knob) on to within about $\frac{1}{8}$ inch of the face of the panel. The small (slow-speed) knob goes on the outer end of the Station Selector Shaft.

Insert the electric plug into the nearest electric supply outlet. Be sure your power supply is of the correct voltage and frequency (cycles), as specified on the receiver name label inside of the cabinet.

OPERATING

It is suggested that before preparing to use "Automatic Dial Tuning" or "Magnetic Tuning" you become familiar with the ordinary method of operating the set. Observe the illustration (Fig. 2) carefully before operating. Turn the "On-Off Switch and Bass Control" one step or notch to the right (clockwise). This supplies the power to the receiver and illuminates the dial. In a few moments the tubes will be sufficiently heated and the set ready to operate. Turn the Volume Control knob clockwise about half its range.

Leave the control, marked "Magnetic Tuning," in the "Out" position until you become thoroughly acquainted with the standard method of operating the receiver on the several tuning ranges. You will then be sufficiently familiar with the set to enjoy the convenience of "Automatic Dial Tuning" and the improved performance obtainable through the use of "Magnetic Tuning." The instructions given later under the headings "MAGNETIC TUNING" and "AUTOMATIC DIAL TUNING" explain their operation in detail.

Standard (American) Broadcasts

Turn the Tuning Range Selector to position 1, and tune in a suitable station or desired program by turning the Station Selector. The figures on the standard broadcast (lowest) scale are "kilocycles" (KC), as given in most station lists. For example: WJZ is tuned in at 760; WABC at 860. After selecting the station, adjust the volume control to suit your taste. Do NOT reduce volume by turning the "Station Selector" away from the station, as this will impair the tone. Always use the Volume Control knob to reduce or increase volume.

Bass Control

There are four operating or "on" positions of the On-Off Switch and Bass Control knob, "Brilliant," "Bright," "Mellow," and "Deep." When the set is turned on, the Bass Control is automatically placed in the "Brilliant" position. This position is desirable for receiving standard broadcasts (particularly speech). The second position, "Bright," is obtained by turning the

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Control one step further to the right. This position is for normal use in receiving standard musical programs. The next two positions, "Mellow" and "Deep," are best when tuning short-wave or distant stations, where a reduction of background noise is desirable; or on programs where bass emphasis is desirable.

Short-Wave Reception

There are two tuning ranges on this model to cover short-wave reception.

One of these is obtained with the Tuning Range Selector (see Fig. 2) in position 2. This range covers from 2.3 to 7.4 megacycles (2,300 to 7,400 kilocycles or KC) and includes Police Calls, Amateur Stations, Aircraft Stations, and a large group of short-wave stations.

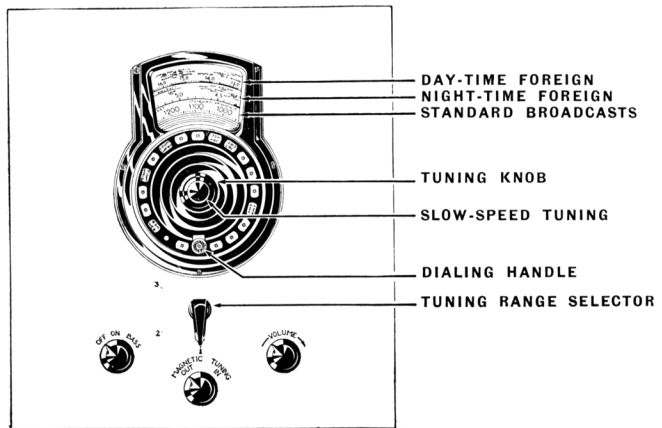


Fig. 2

Police Calls are received from 2.3 to 2.5 on the dial. Amateur and aircraft stations are tuned in at the several points so marked on the dial.

Short-Wave Broadcast Stations, American or Foreign, are tuned in mostly between 5.7 and 6.8, this section being indicated on the dial by the heavy colored horizontal-line below the vertical dial calibration marks. A number of the leading foreign stations are named on the dial and their approximate tuning position indicated by a short line below the station name and in the same color. Adjacent names are printed in different colors to facilitate legibility.

The American short-wave stations on this range are received either during the day or night; foreign short-wave during the evening from late afternoon till midnight (Far Eastern stations are heard in the early morning hours around daybreak).

To receive in the other short-wave range, turn the Tuning Range Selector to position 3.

Short-wave stations in this range (7.3 to 22.0 megacycles or 7,300 to 22,000 kilocycles) are also grouped at certain sections of the dial, which are plainly marked, also by colored lines; many individual stations are also marked in color and their tuning position indicated

below the name. During the forenoon, always tune around 12, 15, and 18 megacycles; during the afternoon, around 9.5 or 12. Tune very slowly and carefully across the marked sections, using the "slow-speed" tuning knob. After you have located the station, adjust the volume control and bass control to suit your taste.

The "Station List" included with these instructions will help you identify the various short-wave stations, by the dial number on which they come in. Many foreign stations also announce in English at intervals, giving their call letters and location. Further information on Short-Wave Stations is available in various radio magazines, periodicals, and most daily newspapers.

Magnetic Tuning

Up until now it is assumed that the user has operated the set with the "Magnetic Tuning" switch in the "Out" position.

Before attempting to set up the receiver for Automatic Dial Tuning, it is advisable that the owner learn something about "Magnetic Tuning" and how it works.

Briefly explained, "Magnetic Tuning," as the words imply, helps tune in the desired station by an effect similar to that of a magnet—pulling the station to the *exactly correct* tuning position, after the operator has turned the dial to *approximately* the correct position.

The simplest and most effective way to use this is:

1. With the Magnetic Tuning Switch "Out," tune in the desired station as correctly as possible in the ordinary way.
2. Turn the Magnetic Tuning Switch to "In." Your station is then tuned in perfectly—and will stay tuned in until you wish to change to another station.

We do not advise tuning from one station to another with the Magnetic Tuning Switch in the "In" position, as the effect of Magnetic Tuning in "holding" a powerful station might be confusing. For tuning in distant stations on frequencies close to powerful locals, always leave the Magnetic Tuning Switch turned to "Out."

Automatic Dial Tuning

This system enables you to select your favorite station in an instant, and to be sure it is automatically tuned in perfectly. The "Dial Tuning" brings you to the *correct position* for the station desired and the "Magnetic Tuning" automatically completes the *exact* tuning-in of the station for perfect tone. **(The Magnetic Tuning Switch must always be turned to "In" when using Automatic Dial Tuning.)**

SELECTING AND PLACING FAVORITE STATIONS ON THE DIAL

Your dealer will furnish you with station call-letter labels (covering your favorite stations) to insert in the proper places on the dialing circle.

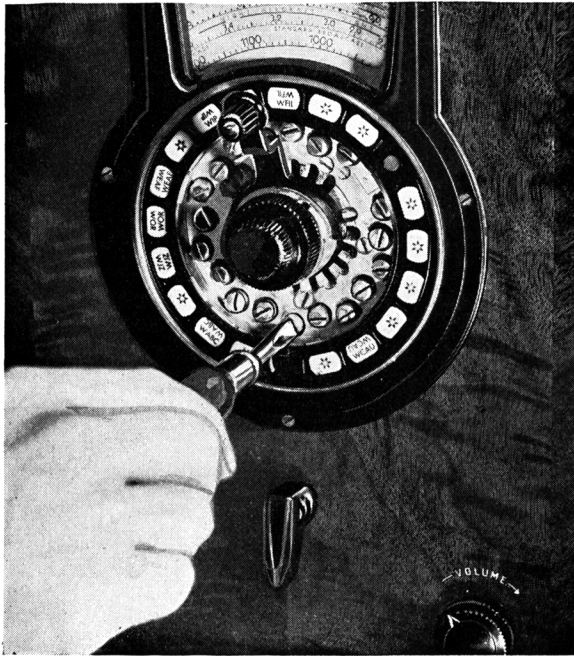


Fig. 3

To insert these station name labels in the proper places, first turn the set "ON," tuning range selector in position 1, and Magnetic Tuning to "Out." It will then be necessary to remove the metal plate over the "finger" or handle used to dial the stations. This is done by removing the tuning knobs and three screws in this plate, and lifting off the plate over the handle. This will expose a circle of "control screws" which are used to locate your favorite stations. After replacing the station selector knob, tune the dial to the station desired, then insert the blade of a screwdriver in the control screw nearest the bottom position of the circle, press it in, and twist it back and forth until a click is heard, indicating that the control screw has engaged the locking mechanism. Now turn the dial back and forth slightly by twisting the control screw back and forth until best reception is obtained. Release the pressure and continue twisting very slightly until the screw jumps out to its original position. Then insert the station name label in the slot below the screw. Repeat this procedure until the several desired stations are located. Finally replace the metal cover plate in its original position.

We do not advise placing more than your six to eight favorite stations on the dial, as experience has shown that more than this causes confusion and difficulty in selecting the desired one, thus defeating the purpose of the dial—quick correct selection of a desired station or program.

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DIALING A STATION

To dial a station turn the dialing handle until it is over the window of the station wanted, press its knob in firmly, then (keeping it pressed in) turn the handle down to the bottom stop position, but in such direction that the small red circle does not have to pass through the bottom position, then release the handle and you have your station.

(Since the dial cannot be turned past the bottom position in either direction, the red circle is provided as a guide to which direction to turn the handle to get your station. A simple rule is: Note the position of the red circle before dialing and always turn the handle in such direction that the red circle will *not* pass the bottom position.)

After a little practice you can readily see which way to turn before starting to dial.

SERVICE

For the convenience of all radio owners, Philco has developed a plan for prompt, efficient radio service in every locality. This plan is known as "Radio Manufacturers Service." There is a member in your neighborhood—his shop or store can be identified by the emblem shown here. To make sure of guaranteed work, genuine Philco tubes and parts, and standard prices—call a member of Radio Manufacturers Service.



Look for this
Emblem in your
Neighborhood



STANDARD R. M. A. WARRANTY

The manufacturer warrants each new Radio Receiver and Speaker manufactured by them to be free from defects in material and workmanship under normal use and service, their obligation under this warranty being limited to making good at their 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 them with transportation charges prepaid, and which their examination shall disclose to their 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 their part, and they neither assume nor authorize any representative or other person to assume for them any other liability in connection with the sale of their Receivers or Speakers.

This warranty shall not apply to any Receiver or Speaker which shall have been repaired or altered outside of their factory or factory depots in any way so as, in their 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 them.

