

The Philco Photo-Electric Tone Arm

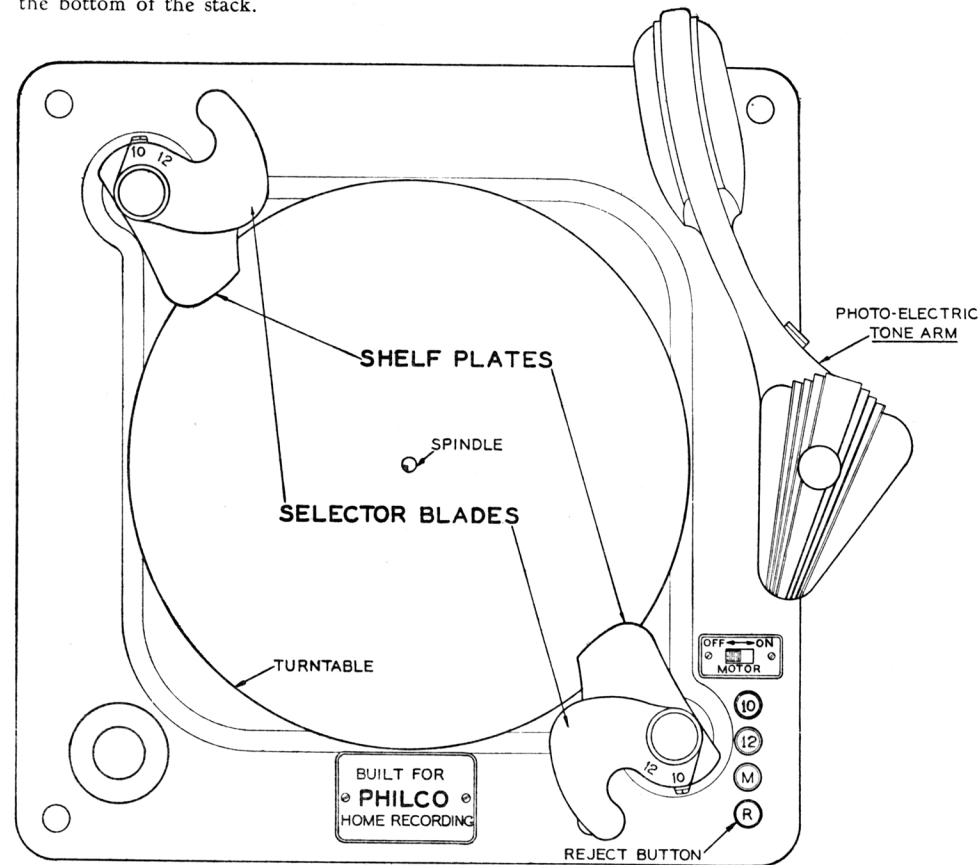
This tone arm is a new and improved phonograph pickup. It rests very lightly on your records, thus increasing their life. The jewel needle is practically indestructible. An electric bulb is enclosed in the head of the tone arm and must be lighted for operation of the phonograph. This light is automatically turned on when the selector switch is in the "Phonograph" position.

CHANGER OPERATION

Setting for Record Size

This changer plays up to twelve 10" records or ten 12" records at one loading.

On each post you will see two plates. The lower one, on which the records rest, is the **shelf plate**. The upper one is the **selector blade** which selects the next record to be played from the bottom of the stack.



To set for record size: (1) Clasp one of the posts underneath the shelf plate, with thumb and finger of left hand. With right hand, lift knob and turn selector plate until the figure 10 or 12 (whichever size you want to play) is opposite the pointer. Do the same with the other post. Both selector plates must be in 10 or 12 position. (2) Push button marked 10 or 12, as required (see above illustration).

Loading

See that both shelf plates are turned toward center of turntable. As shelf plates near correct position you will feel the shelf plates drop into their indexing slots. Make sure both posts have dropped into their slots, if one is not in the slot, records may be damaged. Place the stack of records over center pin so they will rest on the two shelf plates.

Starting the Mechanism

To start motor and turntable: (1) Make sure radio is turned on. (2) Slide motor switch to "ON" position. (3) Then push button "R". This will release the first record and start the record-changing mechanism.

Rejecting a Record

To reject a record press the "R" button. This can be done any time after the needle has come into contact with the record.

Turning Off

Turn changer switch to "OFF" position. Lift pickup arm, place it on the pickup rest. To avoid warping of records, **never leave records resting on the shelf plates.**

Removing Played Records

To remove records make sure motor switch is off, then take hold of both posts, just below the shelf plates, and turn them out of the way. Lift the played records from the turntable. Taking hold of posts as before (**below shelf plate**) move plates until post again falls into indexed position as outlined under loading. The changer may then be loaded with a new stack of records.

Manual Operation

To play records one at a time as in an ordinary phonograph: (1) Remove any records remaining on the turntable, leave plates turned outward as for removing played records. Do not turn them back toward center of turntable. (2) Press button marked "M". Then place a record on the turntable, switch on motor and lift pickup into position.

Oiling

The changer should be lubricated once a year with about a dozen drops of good light machine oil, at each of the following six points. All points can be reached from above, through holes in the mounting plate, as follows: Remove turntable by lifting off.

- Nos. 1, 2, 3.—Three oil holes on motor gear housing. Reach all three through two holes under turntable.
- 4.—Through the other hole drop the oil upon flat surface of cam. It will distribute itself to proper points.
- 5, 6.—Two holes on the outer rim of the motor plate, to the left of the tone arm, and in front of the tone arm mounting.

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".

CABINET POLISH

Especially developed for use on radio cabinets, pianos or any fine woodwork. Cleans, polishes and protects. Requires no hard rubbing; leaves a beautiful glossy, non-sticky surface—very economical.

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."

INSTRUCTIONS FOR

INSTALLING AND OPERATING

PHILCO 41-608

A MUSICAL INSTRUMENT OF QUALITY



RADIO-PHONOGRAPH COMBINATION

FOR AMERICAN AND FOREIGN BROADCAST RECEPTION

WITH ELECTRIC PUSH-BUTTON TUNING

Philco Model 41-608 is a radio-phonograph combination with a Philco Automatic Record Changer and a superheterodyne radio, and is for operation on alternating current (a.c.) supply.

The voltage and frequency required to operate this instrument are indicated on the name label inside the cabinet. Make sure that these correspond with the power supplied to your home.

This radio is designed to operate over a frequency range from 540 to 1720 kilocycles (kc.) for broadcast and police reception and a band spread range from 9.0 to 12.0 megacycles (mc.) in which American and Overseas short-wave stations may be received.

The scale is calibrated in kilocycles for the broadcast range, and in megacycles for the short-wave range. Broadcast stations are listed in kilocycles, and short-wave stations in megacycles, in most station lists.

The Philco Automatic Record Changer is mounted on a shelf fastened inside the front section of the cabinet. This section may be pulled forward to make the changer accessible. It should be pushed back while playing. Detailed instructions for the operation of the changer will be found under the section entitled "Changer Operation".

This combination is equipped with the Philco "Photo-Electric Tone Arm"—a newly developed pickup using entirely new electrical and mechanical principles. Among its many advantages are improved tone quality, increased record life and a permanent retractable needle. This retractable needle, which is entirely new in design and found only in Philco "Photo-Electric Tone Arm" is so designed that the tone arm when accidentally dropped damages neither the needle nor your record.

Provisions have been made whereby the Philco "Home Recording Unit Kit Model HR-1", Part No. 45-2820, for making records at home may be readily installed in this combination. Should this addition be desired at any time, consult your Philco Dealer who has this unit and complete instructions for its installation and operation.

INSTALLATION

After unpacking this instrument, make sure all the tubes are in their correct sockets and pressed down firmly. A label inside of the cabinet shows the relative location of the tubes. The Loktal type tubes may be removed for replacement by rocking them gently in their sockets until the center locking pin is released.

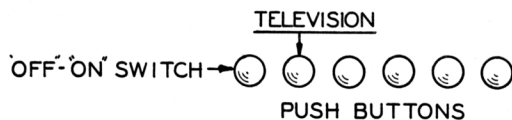
Remove all cardboard packing material, packing tags, etc., from around the chassis, tone arm and cabinet.

Loosen the record changer mounting bolts to remove all the packing so that the record changer floats freely. Do not remove the mounting nuts.

Neither outside aerial nor ground is necessary with this model. The new Philco Built-in American and Overseas Antenna System has been employed, because of its special noise-reducing properties and superior short-wave performance.

For maximum performance in steel reinforced buildings and other shielded locations, the Philco 1941 Outdoor Aerial is recommended. This Philco 1941 Outdoor Aerial can be conveniently connected to the radio by inserting the plug attached to the transformer unit into the socket provided at the rear of the chassis.

This aerial, Part No. 45-2817, can be obtained from your Philco Dealer. No ground connection is required with either type of installation.



Controls

Observe the above illustration carefully for location of the controls.

Selector Switch

There are four positions on the Selector Switch (the lower right knob). These positions—"Phonograph", "Push Button", "Broadcast", and "Over-sea"—are indicated by a lighted arrow on the right-hand side of the dial. The extreme counter-clockwise or left position is the "Phonograph" position.

RADIO OPERATION

To operate the radio, push the button marked "On-Off" (extreme left-hand push button). This supplies power to the radio and illuminates the dial. The radio may be turned off by again pushing the "On-Off" button.

Adjust the Volume Control (upper left knob) to approximately half rotation.

For Standard Broadcast Reception, turn the "Selector Switch" (lower right knob) until arrow labeled "Broadcast" (on right-hand side of dial), is lighted. Stations in the Broadcast Band, and some police transmissions, may be tuned in by turning the dial tuning knob (upper right). Police transmissions in this band are made on frequencies from 1610 to 1710 kilocycles (kc.).

For best tone, tune the desired station with the volume turned low. This enables you to get the exact point at which the station comes in best. Then adjust the volume to the desired level with the volume control.

The Tone Control (lower left knob) may now be set to the desired tone quality by operating it in the extreme counter-clockwise position which gives normal reception, or by turning towards the "Bass" position, which increases the low tone response with rotation of the tone control knob.

Short-wave transmissions may be received on the band spread range by rotating the Selector Switch until the arrow labeled "Overseas" is lighted. The band spread enables you to tune short wave more easily.

Short-wave stations are received on certain sections of the dial according to the general schedule below:

Morning — 11.7-12.0 mc.
 Afternoon — 9.5-10.8 mc.; 11.7-12.0 mc.
 Night — 9.5-10.8 mc.

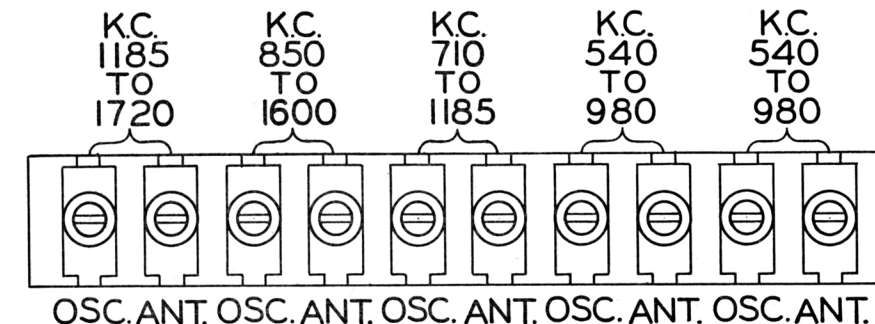
Turning the loop inside the cabinet will cause a variation in the volume of reception on weak stations. This same directional property will also cause an additional reduction in noise interference in many cases. If maximum performance is required, turn the loop until best reception is obtained. This position may vary for different stations.

ELECTRIC PUSH-BUTTON TUNING

When your set is installed, your Philco Dealer will adjust the radio to your favorite broadcast stations, and will place their call letters above the station buttons.

To tune the set with the push buttons, rotate the Selector Switch until the arrow labeled "Push Buttons" is lighted. Then push the button that is under the call letters of the desired station. Your station will be received instantly. The volume and tone of the program may be controlled by the volume and tone controls.

The frequency coverages of the buttons, together with their respective antenna and oscillator adjustments, are shown in the illustration below. This illustration shows the padder unit viewed from rear of cabinet.



This set has been designed to receive the sound of television programs when operated in conjunction with the special type Philco Television set designed for this purpose. If at any time it is desired to use this television sound, your Philco dealer will make the necessary adjustments on the push button labeled "Television". This button may also be used for the playing of phonograph records from a Philco Wireless Record Player.

If at any time it is desired to substitute any station received well in your locality for a station appearing on the call-letter panel, consult your Philco dealer and have him make the necessary adjustments.

PHONOGRAPH OPERATION

This Philco Automatic Record Changer will multiply many-fold your enjoyment of recorded music. These instructions are written for the purpose of enabling you to get all the benefits this changer affords. With proper care, it should give many years of satisfactory service. With it, you can enjoy from one record to 45 minutes of your favorite music without interruption, and without attention to the instrument.

Pull the front section of the cabinet forward to make the changer accessible. This section is carefully designed and counter-balanced so that little force is required. This section should be pushed back again when operating the phonograph.

The Selector Switch must be in the "Phonograph" position. This is the extreme counter-clockwise position.

The tone and volume controls used in Radio Operation also may be used in Phonograph Operation.