

INSTRUCTIONS FOR OPERATING

PHILCO
HOME RECORDER UNIT
MODEL HR-1



FOR USE WITH
PHILCO 1941 RADIO-PHONOGRAPHS

PHILCO HOME RECORDER

This Philco Home Recorder has been designed particularly for home entertainment use and may be used to record voice or music for entertainment, sentimental, or other purposes.

All 1941 Philco Radio-and-Phonograph combinations using this new Photo-Electric Tone Arm have been designed for easy installation of this home recording kit.

The addition of this kit to your radio-and-phonograph combination adds the following advantages:

- a. Radio Recording
- b. Microphone Recording
- c. Public Address (Sound Amplification)

Controls are provided for ease in changing from one to another of the above uses or to the normal use of your radio-phonograph combination.

Philco safety recording discs are particularly designed for use with this recorder. Greatest satisfaction will be obtained when these discs are used. It is also advisable to use Philco home recording needles in conjunction with the above mentioned discs for best possible performance.

RECORDING NEEDLES

The Philco recording needle is a special needle with a wedge-shaped point and a flat on the shank. This needle is inserted into a hole provided in the recording head, mounted in the recording arm. The flat on the shank at the other end of the needle from the cutting point is inserted in this recording head with the flat on this shank in a position to engage the cutting needle set screw. This needle set screw definitely positions this needle. This position is important. This needle set screw should be checked after every recording to make sure it has not become loosened. Never allow the cutting needle to rest on any surface other than the record disc, otherwise the razor-sharp point will be ruined and unsatisfactory records will result. However, when not recording, always return the recording arm to its rest. This needle may be used for many recordings before requiring replacement due to dullness. It is easy to tell when this needle is dull, for the clearness in the home recording records will be lost and a mushy or distorted response will be heard.

RECORDING BRUSH

The brush supplied with this home recording kit is to be used to keep cuttings from face of record while recording. Cuttings should be brushed towards spindle.

MAKING YOUR FIRST RECORD

A slight amount of practice is naturally essential to become familiar with the operations of this recording device. This practice is most readily obtained by recording radio programs. The following directions will apply particularly to this form of recording. Directions for other forms of recording will be found in the following sections.

RADIO RECORDING

1. Tune to a desired radio station.
2. Set the bass control to the extreme counter-clockwise position.
3. Set the recording switch on the recording control to "Record Position". The sound from the loud speaker will be greatly reduced when the switch is in this position. The two indicator lights in the control unit are provided to indicate when the volume control is set correctly to make a record. One light has a line of green around it. The other has a line of red. For proper volume setting, the green indicator should light almost continuously except when there is no music or talking coming in on the program. The red light should flash occasionally. When continuously lit, this red light indicates too much volume for good, clear recordings.

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4. Place a Philco safety recording disc on the turntable with the retractable pin projecting through the outer hole.
5. Pick up the recording arm, making sure that the cutting needle has been properly inserted as explained, and set the needle on the disc near the outer edge.
6. Push the "M" button on the record changer for manual operation.
7. Turn the phonograph "ON" as outlined under manual phonograph operation in set instructions (41-616 see note on special switch).
8. At the end of the recording, it is suggested that the volume control be turned to minimum volume position, or completely counter-clockwise, and allow the record to make a few revolutions before lifting recording arm and placing it on its rest.
9. Remove the threads cut during the recording.
10. This record is now ready to be played back.

TO PLAY BACK

To "play back" a home recording shift the switch on the recorder control unit to the "Play and PA" position. Then, with the main selector switch on the front panel in the "Phonograph" position, the record may be played manually by the changer. The tone and volume controls on the front panel should be operated to suit your desires.

This play-back, of course, is done by means of the **Philco Photo-Electric Tone Arm** and not by the Recorder Arm and Head Unit.

MICROPHONE RECORDING

1. Set the main selector switch in the "Phonograph" position.
2. Set the switch on the recorder control unit to "Record".
3. Set the switch found on the back of the microphone housing to the "On" position.
4. When the microphone is spoken into the volume control should be adjusted so that the indicator lamps should light as outlined in RADIO RECORDING.
5. The volume control setting may be different, depending upon the volume of the person's voice and the distance the person is from the microphone. For most natural results, the person should be at least one foot from the microphone.

TO PLAY BACK

To play back microphone recording, follow the above mentioned play-back in every respect, except be sure that the switch on the microphone is in the "Off" position.

In judging voice recordings it is a known fact that a person does not recognize his or her own voice. It is best to take the opinions of others on such recordings.

TO USE AS A PUBLIC ADDRESS OR SOUND AMPLIFIER SYSTEM

1. Set the main selector switch in the "Phonograph" position.
2. The switch on the recorder control unit to "Play and PA" position.
3. The switch on the microphone should be turned on.
4. The sounds picked up by the microphone will, in this instance, be amplified through the radio set and will be applied to the loud speaker. In this position, the volume and tone control may be used to control volume and tone respectively.

In using this radio as a public address or sound amplifying system, when the microphone is in the same room as the radio set, if the volume control is set extremely

loud, howls may be encountered. These howls can be greatly diminished by turning the tone control or bass control to the extreme clockwise position. However, for most satisfactory results, it is suggested that a microphone extension cord, part number 41-3601, be secured, and which will extend the microphone so that the microphone may be taken to the adjacent room.

Fading

When radio programs are being recorded it is often desirable to add an announcement, naming the selection, the station, or some other item of interest. This may be done at the beginning of the recording, and at the end or at any time during recording by the process of "fading". This permits changing from microphone to radio and vice versa without sudden change in volume.

To Announce the Selection that is to be Recorded from the Radio

Tune in a desired station on radio, then set the instrument as outlined under the paragraph on Microphone Recording. However, at the end of the announcement do not turn the motor off but merely turn volume control slowly to zero volume (counter-clockwise). Then throw the main selector switch to "Broadcast" position and increase volume control until the two indicator lights show correct volume.

To Announce What Radio Program Was Recorded at the End of Recording

Turn volume again to zero, leave motor running, throw selector switch to "Phono Operation" and increase volume while talking into microphone until indicator lights show correct volume.

TO USE AS A PHONOGRAPH

Set the recorder control switch to "Play". Make sure the microphone is in the "Off" position and the phonograph then is ready to be used as a straight phonograph. The instructions covering this operation are contained in the instructions that are shipped with this combination, under PHONOGRAPH OPERATION.

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

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."