



PHILCO TELEVISION INSTRUCTIONS

Your Philco television receiver is equipped with the latest electronic devices, including the newly developed Philco Built-In Television Aerial System. By properly locating the receiver in the room and adjusting the aerial tuning control, high-quality reception may be obtained in many locations. Only in areas where television reception is poor will an outside aerial be needed.

In choosing Philco, you have purchased an instrument of the highest quality, designed and skillfully built to produce clear, sharp television pictures, with fine detail and brilliance, and to provide long-continued operating satisfaction, and enjoyment of television reception at its best.

The purpose of this booklet is to instruct you how to operate the controls correctly, and enable you to take full advantage of the many built-in advanced features that provide fine television reception. Complete familiarity with the controls of the instrument will give you ease of operation and outstanding performance.

Famous for Quality the World Over

SPECIFICATIONS

Number of tubes (excluding rectifiers)	20
Number of rectifiers	2
Size and type of picture tube	12½ inch, direct view
Television channels	12, channels 2 to 13
Power-supply requirements	115 volts, 60 cycles, a.c.
Power consumption	225 watts
Television aerial	Self-contained Philco Built-In Television Aerial System; also provision for connecting outside aerial, when used

INSTALLATION

Your Philco television receiver has undergone extensive performance tests, and has been factory-adjusted, inspected, and shipped ready for easy and quick installation in your home. By giving special attention to these instructions and to the information on the shipping tags and notices attached to the instrument, installation and operation will be greatly simplified.

INSTALLING THE CONTROL KNOBS

For shipping purposes, the control knobs for this receiver are in a separate envelope packaged with these instructions. Remove all of the knobs from the envelope, then position and push them onto the control shafts at the front of the cabinet as indicated in the illustration showing the location and functions of controls, page 5.

CONNECTING POWER CORD TO POWER SOURCE

Unwrap the power cord, located at the rear of the instrument, so that it extends its full length, but do not insert the plug into the power receptacle until you are certain of the voltage and frequency of the available current.

This instrument is designed to operate from a 110 to 120-volt, 60 cycle, a-c power outlet. **DO NOT ATTEMPT TO OPERATE THE INSTRUMENT FROM A LOWER OR HIGHER A-C POWER SOURCE, OR FROM A DIRECT-CURRENT (D-C) POWER SOURCE.**

The voltage and frequency of any alternating-current (a-c) circuit may easily be verified by looking at the nameplate on the service watt-hour meter installed by the electric-light company.

When you are certain that the power supply is correct for this instrument, the power-cord plug may be connected to the power outlet.

LOCATING THE INSTRUMENT

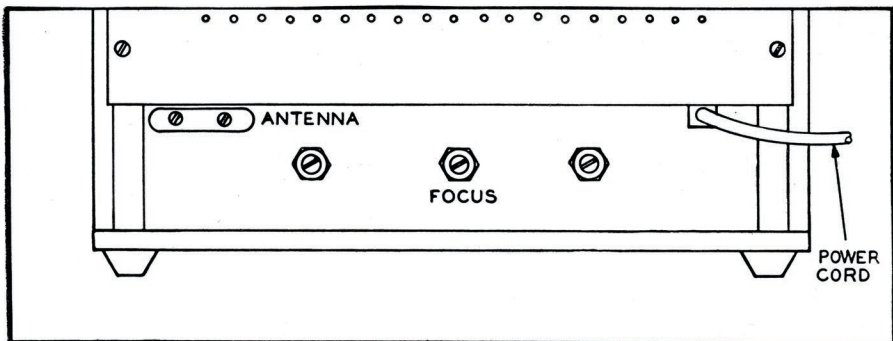
Your new Philco has been designed to provide superior performance with the greatest possible efficiency with the new Philco Built-In Television Aerial System.

As is true of an ordinary radio-broadcast receiver, the placement of a television receiver in the room is very important. In selecting a location for this instrument using the Philco Built-In Television Aerial System, it is recommended that several operating locations be tried in order to choose the location where the very best television reception can be obtained.

If certain stations are weak or noisy, reception can often be improved simply by turning the cabinet so that it faces a different direction, and then readjusting the aerial control. When it is desired to move the instrument to another room, attention should be given to these suggestions so that full advantage will be taken of the many built-in performance features the instrument is capable of providing.

In areas where television reception is poor, the use of an outside aerial will be required. Your Philco Dealer can supply you with the correct Philco Television Aerial complete with installation instructions, or he can arrange to have it properly installed to give you the best television reception.

OUTSIDE AERIAL CONNECTIONS



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If reception conditions require the installation and use of an outside aerial, the procedure for connecting the transmission line to the instrument is as follows:

1. Remove the two leads of the Philco Built-In Aerial System by loosening the screw terminals on the insulated panel mounted on the rear of the instrument chassis.
2. Connect the transmission-line wires of the outside television aerial to these terminals, making sure that the connections make good electrical contact, and are securely tightened.

NOTE: Where an outside aerial is used, the **AERIAL TUNING** control has no effect on the operation of the receiver, and the instructions for the use of this control, under **OPERATION**, do not apply.

ROOM LIGHTING

The room where the instrument is located need not be in total darkness to view television programs; a small amount of general lighting is even desirable. However, sunlight or light from floor or table lamps should not be allowed to fall directly upon the picture screen. It is an advantage to be able to darken the room somewhat for viewing of daytime programs.

SEATING SPACE

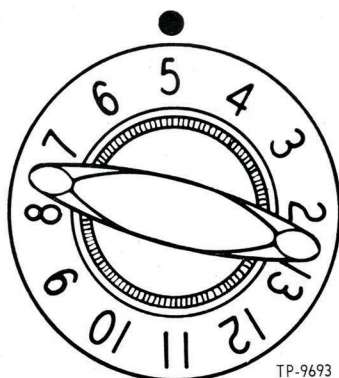
Television pictures can be viewed comfortably, by most people, from a distance of between five and fifteen feet. For this reason, such an area should be provided directly in front of the instrument, so that guests may be accommodated conveniently.

OPERATION

TELEVISION STATION CHANNELS

Your Philco is designed to receive all 12 television-station channels assigned by the Federal Communications Commission.

Each of the 12 channels is identified by a number from 2 to 13. The channel number to which the receiver is set is indicated when the number of the **CHANNEL SELECTOR** dial is positioned opposite the indicator on the instrument control panel. The **CHANNEL SELECTOR** on your Philco may be turned in either direction when selecting a desired channel number.

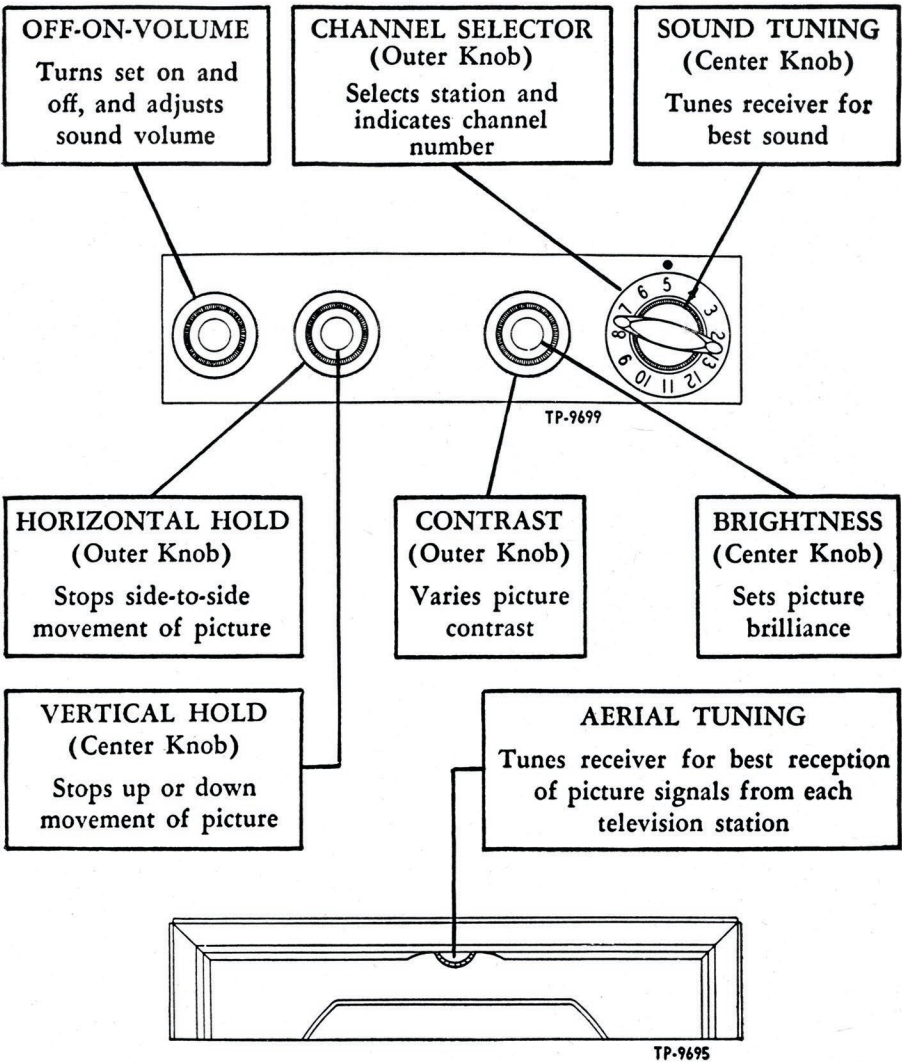


Consult your local newspaper for the time and channel numbers of stations broadcasting regular television programs in your area. Check to see that the station is on the air at the time you wish to operate your receiver, and note the channel number of the station.

LOCATION AND FUNCTIONS OF CONTROLS

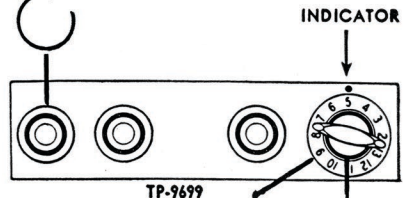
The most often used operating controls on this television receiver are located on the instrument control panel, directly below the picture screen. There are also controls located on the rear of the receiver chassis, which are adjusted and preset at the factory; under normal conditions they will seldom require readjustment.

The following illustration shows the location and functions of the controls, at the front of the instrument, that may be operated to produce high-definition pictures with fine detail and brilliance.



TUNING IN A STATION

1. Turn the OFF-ON-VOLUME control to the right about halfway through its range. WAIT ABOUT ONE MINUTE FOR THE TUBES IN THE RECEIVER TO WARM UP.



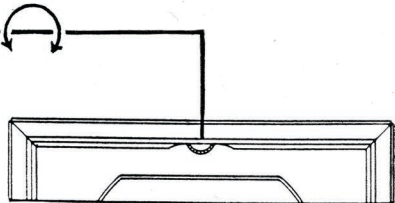
2. Turn the CHANNEL SELECTOR to the right or left until the channel number of the desired station is opposite the indicator.

OUTER KNOB

3. Carefully adjust the SOUND TUNING control

CENTER KNOB

for the best quality of sound, readjusting the VOLUME control, if necessary, to maintain the desired volume. In areas where television reception is poor, it may be necessary to adjust the SOUND TUNING control in conjunction with the AERIAL TUNING control to tune in a station. The SOUND TUNING control and VOLUME control should then be readjusted for the best sound quality.



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4. Turn the CONTRAST control halfway to the right, and the BRIGHTNESS control slowly to the right until the picture screen is moderately illuminated.

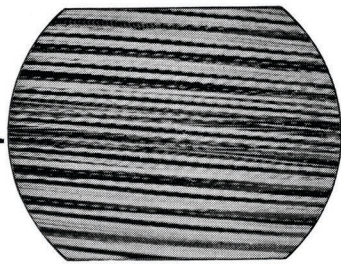
OUTER KNOB

CENTER KNOB



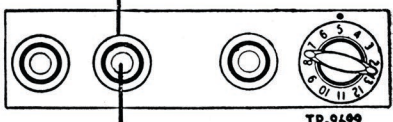
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5. If the picture appears with numerous black and white lines as illustrated, turn the **HORIZONTAL HOLD** control to the right or left to eliminate the lines or bars.



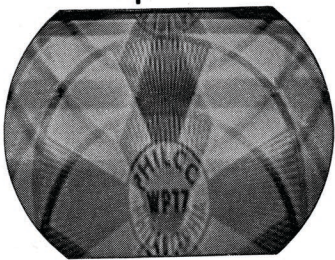
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6. If the picture appears to be moving up or down as illustrated, turn the **VERTICAL HOLD** control to the right or left until the picture stays steady vertically. Note: When the controls in steps 5 and 6 are properly adjusted and are not disturbed, they will not require readjusting each time the receiver is operated.



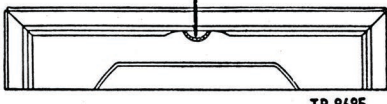
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7. Adjust the Built-In Television Aerial by turning the **AERIAL TUNING** control knob to the right or left until the picture reaches its maximum brilliance and clarity.

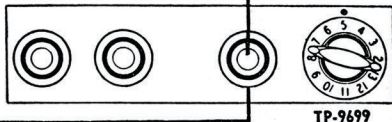


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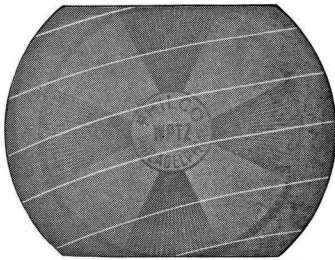
8. Slowly readjust the **BRIGHTNESS** control and **CONTRAST** control for the most pleasing picture. This will generally be with the **BRIGHTNESS** control set just below the point where fine white lines appear, and the **CONTRAST** control set for the best picture quality.



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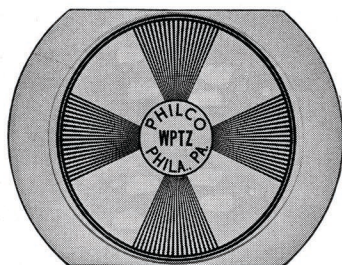


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9. After the receiver has been turned on for a while, it may be necessary to readjust the **SOUND TUNING** control for improved sound quality. A careful readjustment of this control will aid in eliminating or minimizing interference, particularly the type caused by passing automotive vehicles.

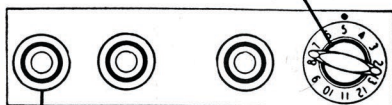


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Picture Properly Adjusted

CENTER KNOB

10. To turn the receiver OFF, turn the OFF-ON-VOLUME control to the left all the way until a click is heard.



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FOCUS ADJUSTMENT

After extended periods of time it may be found that correct adjustment of the regular operating controls on the front panel of the instrument will not produce a clear, sharp picture, and a slight readjustment of the **FOCUS** control may be necessary. This control is a screwdriver adjustment located on the rear of the receiver chassis, and is plainly marked. It should be carefully adjusted by turning it to the right or left for a clear, sharp picture. Other screwdriver-adjustment controls on the rear of the receiver chassis are for *service adjustment only*, and should not be disturbed.

CHECKING OPERATION

If, after following the detailed instructions for tuning in a station, the receiver seems to be inoperative, check its operation by turning the **CHANNEL SELECTOR** and adjusting the front-panel controls to tune the instrument to another station. The station to which you desire to tune may be having technical difficulties, and your instrument may be operating normally. In the event that you are unable to get satisfactory television reception by properly adjusting the front-panel controls, call your Philco Television Dealer.

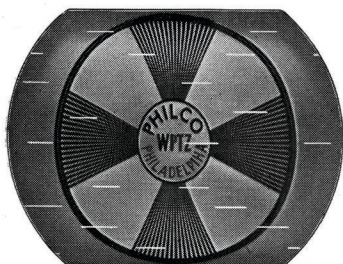
INTERFERENCE

There are certain types of interference which occasionally disturb television pictures.

1. Streaks of light which flash across the screen intermittently are often caused by automobile ignition, electric motors, and similar electrical appliances.
2. Medical-diathermy equipment sometimes causes a "herringbone" pattern of lines in the picture.

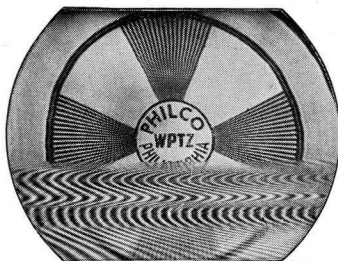
3. Short-wave transmitters can cause a pattern of alternate light and dark vertical or slanting lines in the picture.
4. A double image, or "ghost", is the result of the arrival of the television signals at the receiving aerial by multiple paths. This can happen because television signals are reflected, or bounced, from buildings, mountains, and similar objects.
5. Another type of picture disturbance, called "aircraft flutter", is caused by reflections from aircraft flying in the vicinity. This type of disturbance is usually of very short duration, disappearing when the craft has flown out of range.

Sometimes a new source of interference will cause disturbances to television pictures after an instrument has been installed and operating satisfactorily for some time. However, in most cases the interference will be found to occur only occasionally, and may not prove too troublesome. If the interference persists, consult your Philco Television Dealer. You can be of assistance to him in identifying the type of interference.



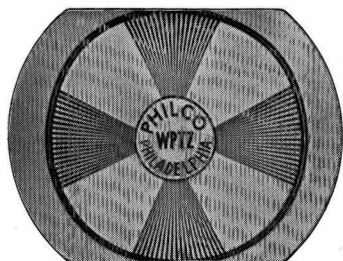
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Ignition Interference



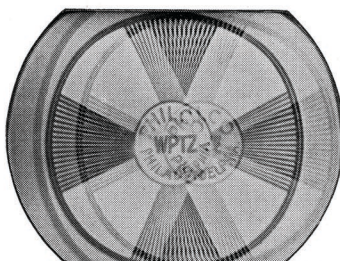
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Diathermy Interference



TP-1005A

Short-Wave Interference



TP-1023A

Ghosts

CARE OF THE TELEVISION RECEIVER

Your new Philco television receiver and its distinctive cabinet should be given the same care as any piece of fine furniture. To preserve the hand-rubbed surface and original lustre of the cabinet finish, a high-quality polish such as Philco Furniture Polish (obtainable from your Philco Dealer) should be used. Do not subject the instrument to rough treatment. Do not place articles of any kind on or against the cabinet in such a way as to obstruct the ventilating openings in the rear of the cabinet. Do not attempt to clean the receiver chassis or the inside of the cabinet. Do not disturb any of the adjustment screws on the rear of the receiver chassis, except as explained under FOCUS ADJUSTMENT. Never remove the protective cover from the back of the instrument. Should service ever be required, call your Philco Television Dealer.

CLEANING PICTURE VIEWING GLASS

For perfect viewing of television programs, the Philco viewing safety glass must be optically clear, and, therefore, will require periodic cleaning to remove smudges and surface dust. Window-cleaning fluid and a soft, clean, lint-free cloth may be used to clean and wipe the glass dry whenever cleaning is necessary.

YOUR GUARANTY FROM PHILCO

Your new Philco is a high-quality instrument. It has been built with care and skill and is designed to bring you years of pleasure and satisfaction.



This instrument 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.

IMPORTANT

To register your Philco Television Receiver and Picture Tube under the terms of the Philco Standard Television Warranty, it is important that you fill out and mail to Philco Corporation the return mailing card that is attached to your receiver. Unless the card is filled out, your television receiver and picture tube may not be fully protected under the terms of the Standard Television Warranty. No postage is required.

STANDARD WARRANTY

"We warrant each new Philco Television Receiver to be free from defects in material and workmanship under normal use and service, our obligation under this warranty being limited to making good any part or parts thereof which shall, within ninety (90) days after delivery of such receiver to the original retail purchaser, be returned to us through our distributor or dealer with transportation charges prepaid, and which our examination shall disclose to our satisfaction to have been thus defective, with the exception that the period of warranty under these terms for the cathode-ray tube (picture tube) shall be one (1) year; 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 products.

"IN ORDER TO RECEIVE THE BENEFIT OF THE ABOVE ONE (1) YEAR WARRANTY UPON THE CATHODE-RAY TUBE (PICTURE TUBE) IT IS REQUIRED THAT THE TUBE MUST BE REGISTERED WITH PHILCO CORPORATION. THE REGISTRATION CARD, POSTAGE PREPAID, ATTACHED TO EACH RECEIVER MUST BE COMPLETED AND RETURNED TO PHILCO CORPORATION.

"This warranty shall not apply to any receiver which shall have been repaired or altered 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 which has been connected otherwise than in accordance with the instructions furnished by us."

**PHILCO CORPORATION
PHILADELPHIA**

