

PHILCO SERVICEMAN

PHILCO
Factory-Supervised
Service

Service News For Philco Servicemen

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PHILCO TELEVISION RECEIVERS ARE FUSED FOR SAFETY

A very important consideration in the design of a television receiver is the safety factor built into components and overall circuitry. The safety factor built into Philco television receivers is a part of the high quality which is basic in all Philco products. There is one special safety factor incorporated in Philco television receivers which concerns you as a serviceman. All Philco television models of the duplex chassis and some earlier models incorporate special fuses in the B+ or primary circuit for the protection of the receiver in the event of a component failure or the application of incorrect voltage.

In order to provide the maximum degree of protection, these fuses are of the delayed action type commonly referred to as "slow blow." The delayed action type is used so that the fuse will not be blown by the surge of current which usually accompanies turning the receiver on-and-off, and yet the fuse will blow on a overload small enough to prevent damage to the receiver. The delaying action is obtained in this type of fuse by using a special low-temperature solder connection in the fuse which must heat up before the fuse opens. Temporary normal surges do not ordinarily heat the fuse sufficiently to open it. Large abnormal surges, even though temporary, will however interrupt the fuse immediately.

The following is a tabulation of the different values of delayed action fuses which have been used in Philco models. As a member of PHILCO FACTORY-SUPERVISED SERVICE, you will want to make sure that you have several of each of these types in your service kit so that the sets you service will continue to retain the high degree of protection incorporated in the original design.

Models	Rating	Part No.
51-T1443 Series	.6 AMP	42-2656-18
50-T1600 Series	.7 AMP	42-2656-22
51-PT1207 Series	1.25 AMP	42-2656
All other dual chassis models	.7 AMP	42-2656-22
50-T1630 Series	$\frac{3}{8}$ AMP	42-2656-10
50-T1400 Code 121, Series	$\frac{3}{8}$ AMP	42-2656-10
50-T1400 Code 123, 124 Series	$\frac{1}{2}$ AMP	42-2656-17
50-T1105, 6 Series	$\frac{3}{8}$ AMP	42-2656-10
* Not Slow Blow.		

In addition to the B+ and AC line fusing which has been used in many Philco models, all of our current models also incorporate separate fusing of the filament circuits. Protection of the filament circuits with a fuse is desirable because the large number of tubes in a television receiver make the current rating of the power transformer filament winding so high that it is easily capable of burning out the filament wiring to the individual tube sockets if an accidental short circuit should occur. Damage to the filament wiring is prevented by using fuses consisting of lengths of No. 26 gauge copper wire which are wired between lugs on wiring panels in the bottom of the chassis. In the case that a number of tubes in a Philco television receiver are not receiving filament voltage it is desirable to check for the possibility of an open filament fuse. The fuse should be replaced only by another length of No. 26 copper wire wired between the original soldering terminals.

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1. Inspect transmission line, antenna, and all connections for mechanical and electrical efficiency.
2. Inspect all chassis components for security of mechanics and signs of electrical breakdown.
3. Adjust back controls to assure maximum picture linearity.
4. Check range of all front controls to assure best tuning control by set owner.
5. Adjust picture tube focusing, centering beam bender for maximum brilliance.
6. Clean and polish safety glass panel and picture tube face.
7. Check test pattern to assure maximum height and width with good linearity.
8. Check oscillator and fine tuning range for maximum sound and picture clarity.
9. Adjust horizontal hold system for maximum horizontal steadiness.
10. Furnish accurate written technical report of inspection and general operative condition of set.

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You'll welcome him because he's going to do the right job, the right way, at the right price.

Our television service technicians are courteous, helpful, and trained in up to the minute factory methods for expert service on all makes, all models.

IF YOUR TV SET NEEDS ATTENTION:

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**ATS BY PART NUMBER
CAL DISTRIBUTOR**

INVOICES MEAN BETTER PHILCO Factory-Supervised SERVICE!

Here's the latest addition to your lineup of Philco FACTORY-SUPERVISED SERVICE sales aids, designed to create more efficient practices in keeping your records and selling your services.

The familiar blue and gold Philco Invoices furnish a complete description of materials, prices, repairs, and general information necessary for you to establish up-to-date records of work performed.

This information becomes even more valuable to you as time goes by and repeat business starts coming in. From invoice records you can make many interesting observations regarding what materials to stock, the condition of your price structure, general efficiency of methods, and a good source for mailing lists—all definitely an aid to deciding future business policy.

And, as we have stressed time and time again, printed business forms telling your affiliation story with Philco FACTORY-SUPERVISED SERVICE continue to create the impression of efficient organization. Authorization and

recognition by Philco are the intangibles that mean more service business coming your way!

More service business means more profits for you—a better reputation for you—and the opportunity to enlarge your business. Every smart businessman knows the value of efficient record keeping. Even a small thing like sending out invoices intimates to your customers that you are in business for keeps.

And what's more important, Philco FACTORY-SUPERVISED SERVICE is backing you up all the way!

Show your customers that you are proud to be working with Philco, an internationally famous manufacturer—proud of your chosen work—and proud to deliver dependable work at approved and standard prices!

Your customers want assurance that you are reliable and organized. So order a whole set of Philco FACTORY-SUPERVISED SERVICE sales aids from your local Philco Distributor.

REFRIGERATOR HERMETIC SEALED UNIT OPERATIONAL CHECK

Your own practical knowledge of refrigeration plus the reference manuals that you are procuring through your membership in PHILCO FACTORY-SUPERVISED SERVICE will give you complete confidence to install, maintain, and service any new Philco refrigerator.

Let us become better acquainted with the heart of the Philco refrigerator, "The Philco Super Power System." We can do this by becoming familiar with three operational checks. The visual check is first:

Uniform frost distribution over the entire evaporator, indicates that the super power system is operating normally, and the required amount of refrigerant is circulating. Frost Back should not extend beyond the end of suction line loop at the point where it leaves the evaporator.

A service thermometer frozen into the evaporator so that the scale can easily be read, and checked against the operating temperature as listed in the service manual for the model being inspected. Efficient operation means uniform frost distribution.

Finally, normal "Cut-on and cut-off" temperature indicate the system is operating efficiently.

Faulty operation may be caused by:

Restricted air flow through the condenser.

Excessive accumulation of ice in and around the evaporator.

Trouble in the super power system or low line voltage.

The refrigerator will become inoperative if the line voltage is less than 100 volts.

A faulty food compartment door seal, which allows warm air to enter the food compartment or improper location, such as next to an un-insulated stove.

The third operational check which may be made on the Philco Super Power System is the wattage check. A detailed chart is found in your service manual, giving proper readings for various models.