

PHILCO SERVICEMAN



RADIO • MANUFACTURERS • SERVICE • NEWS

NOVEMBER, 1940

New Philcophone Has Two Way Call System With Push Buttons

EDITORIAL

JUBILEE SERVICE

The Philco 15 Millionth Jubilee celebration has been one of the greatest profit promotions the radio industry has ever experienced, and Philco dealers everywhere are cashing in on this greatest record of the radio business. Servicemen who are members of Radio Manufacturers Service can likewise take advantage of this great promotion to tie-in with the Jubilee celebration and make more money in their own service business. With approximately 25,000 R.M.S. members in the United States, there are potentially 600 Philco sets alone that are the service responsibility of each member. Certainly by far, the great majority are in use in the United States, and this means that these Philco service customers are yours for the asking.

Philco's Recommendation

R.M.S. members have been recommended by Philco in the customers' instruction sheets packed with each radio. In addition, the yellow label bearing the R.M.S. insignia is pasted on the inside of the cabinet on every 1941 model, telling the customer to look for the R.M.S. sign when in need of service.

Active Service Business

For sales achievement this record of 15 million Philco's is the most enviable in the entire history of the radio industry. But for the serviceman it means more than past selling achievement—it means present and future service business keeping these sets in operation.

How to Tie In

Tying in with the 15 millionth Philco promotion will mean additional service business for the R.M.S. member. Using the Jubilee signs and banners available from the Philco distributor, and the R.M.S. metal signs—all of these will tell the Philco owners in your neighborhood that you are local headquarters for Philco service.

Latest Philco Development Offered at Low Price

The new Philcophone—featuring complete two way private communication and call—has just been announced by Philco. All of the worthwhile features of greater flexibility, more compact construction, and lower price are to be found in this newest and latest Philco product.

The master control is in an attractive bakelite cabinet, while the remote stations are extremely attractive and efficient—housed in a case similar to the microphone of the Home Recording Kit.

Five Stations

An important feature of this new Philcophone is five push-buttons to select any one of five remote stations; in addition there is a sixth push-button which is called the "Quiet" position. In normal operation the master control is left on with the volume turned up and this "Quiet" button depressed. With it this way no sound can be heard from any of the remote stations until the person at one of the remote stations pushes his "Talk" button. The user at the master control can then push the button for that particular station and then the operator at the remote station does not have to use a "Talk-Listen" button. This "Quiet" push-button is a feature that has always been requested on a unit of this type.

There is packed with each Philcophone 50 feet of a special three-wire cable, used for connecting the units. Also, when the extra stations are purchased, a 50 foot length of this cable is supplied with each one.

Easily Installed

The installation is so simple that it can easily be done by the customer. The 50 foot three-wire cable, attached to the remote station is color-coded red, white and blue. These wires are



New Philcophone Master Station Model 908 and Remote Station Model 909

connected to the three terminals on the back of the unit correspondingly marked red, white, blue. The bottom row is for No. 1 push-button and the other four rows are for additional remote speakers.

Sales Opportunities

The new Philcophone offers a grand sales opportunity for dealers and servicemen. Offices want inter-communicating systems to save time. These systems in houses save thousands of steps. The feeling of security which goes along with such an installation in the sickroom or in the baby's bedroom is invaluable. Stores, restaurants, theatres, garages, and hospitals are all prospects for the new Philcophone.

And now—the best news of all about this improved Philcophone is that the list price for one central station, including one remote station with 50 feet of the special three-wire cable, is only \$29.95 (slightly higher Denver and West). The list price of additional remote stations, including 50 feet of the special three-wire cable is \$7.50.

Sales Helps

Envelope inserts with space for your imprint are now available from your distributor. Get a supply of these inserts now, get them distributed to logical prospects, and start cashing in on some new profits.

Installation and Service Hints on New Remote Control Models

The Philco remote control Models 41-316 and 41-616 are designed to operate from the control box at distances up to approximately 40 or 45 feet. There is no variable control on the radio chassis to change the sensitivity of the control circuit. It was felt that the improper use of such a control causes too much trouble after the radio is installed in the home. If special installation conditions require greater sensitivity in the control circuit, the 15,000 ohm resistor in the cathode of the 78 tube should be replaced with one of a lower value, and in extreme cases this resistor can be shorted out entirely.

It should be understood that this is not a general recommendation except in those cases where the shielding effect and wiring in certain types of building construction, require added sensitivity for remote control operation.

41-616 Operation

In the Model 41-616 if the "Phono" push-button is depressed after using the radio on remote control for tuning in a broadcast station, the phonograph motor will continue to operate until a broadcast push-button is depressed or until the wave band switch is changed to another setting. If the "Remote" control button is depressed instead, the phonograph motor will continue to operate even though the call letters of the broadcast station last tuned in by remote control are illuminated. The "Remote" control indicator, the call letters of the broadcast station last tuned in by the remote control, and the "Phono" indicator will all be illuminated and it will be necessary to dial a station on the remote control in order to clear the phonograph circuit.

Remote Shut-Off

On a few of the early production in the Model 41-316, it was possible that while using the remote control the radios would not turn off. The trouble was that the belt which couples the volume control motor to the volume control was too loose allowing the belt to slip. To overcome this condition, loosen the three screws on the motor assembly mounting and tighten the adjusting screw at the back of the assembly. This condition is being watched very closely in production and there has been no trouble of this nature with the later sets.

Remote Volume Control

When the Model 41-316 Wireless Remote Control radio is turned off by use of the wireless remote control box, a certain condition might be set up on the gear train on the volume control which will interfere with adjusting the volume control manually. This is caused by the gears and clutch sticking and can be overcome simply by rocking the volume control gently.

Philco Quality Home Recording Records Offered at Low List

Hundreds of thousands of Philco home recording records have been shipped out of Philadelphia and have been used in making some of the finest home recordings ever heard.

The quality of these Philco recording blanks is responsible for the good tone and clear reproduction which is possible on the new Philco phonograph combinations equipped with home recording. There are two distinct types of records in the Philco recording blank line. The paper base type is the most commonly used and is supplied in both black and red finish. The 6 1/2" discs sell at 75c list for a package of six. The 10" size sells at \$1.00 list for a package of three. These standard kits are known as Philco Part No. 45-2822 and 45-2823 respectively.

DeLuxe Metal Base

The Philco metal base records are the deluxe type which are used extensively for better type recordings and for greater permanency. The quality of the metal base type is definitely superior to the paper base and of course the lasting qualities of the metal are obvious. These records are likewise available in both the 6 1/2" and the 10" sizes. They sell at \$1.00 list for a package of five 6 1/2" (Part No. 45-2838) and \$2.25 list for a package of five 10" (Part No. 45-2839).

40% Higher Specifications

Philco's engineering specifications on home recording blanks are most rigid and are considerably higher than the average of the industry. Actually, the specifications on the popular 6 1/2" paper base type record for surface coating thickness is 40% higher than the average. This means that better recordings can be made and that the quality of these recordings, because of the depth of coating material, will be definitely superior.

Distributors' Stocks Good

Because of the tremendous demand for these Philco recording blanks, it has been difficult for the factory in Philadelphia to keep up with orders. At this time, however, all Philco distributors have been able to build up a stock so that there will be no difficulty in dealers obtaining adequate quantities of Philco home recording records for sales promotion and resale purposes.



BRINGS FLOOR TRAFFIC

Philco's new animated polish display is selling thousands of bottles of Philco Refrigerator Polish and Philco Furniture Polish for dealers. Repeat sales items of this kind bring floor traffic with its resulting interest and sale of new radio and refrigeration products. These displays are now available from the Philco distributor.



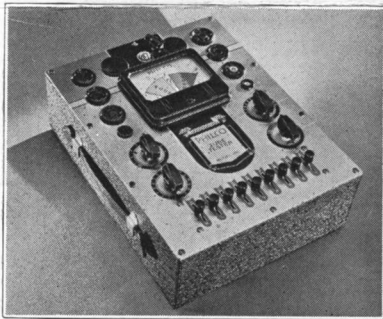
Parts Department, C. R. Rogers Co.
Philco Distributors in Pittsburgh, Pa.

No Obsolescence Factor in Philco Tube Tester

One of the greatest factors which has influenced dealers and servicemen in their purchasing the new Philco 050 Tube Tester is its permanency from a utility standpoint.

The new Philco tester is designed in such a way that it will not become obsolete. As new tubes are made available, Philco publishes tube test settings for the 050 tester so that dealers will have the correct information almost as soon as these new types are available.

Although the new tester has been on the market only a short time, there have been a number of tube type additions made by tube manufacturers within the past few months. Those dealers who have purchased the 050 can obtain from the Philco distributor a revised copy of the instruction sheet, with which is included the complete tube tester settings of all of the latest types. It is Philco's plan from time to



Philco Tube Tester Model 050

time to either revise the instruction sheet in this manner and make it available to owners of the 050 or at least to publish the information in the Philco Serviceman so that all Philco Tube Tester owners will have complete testing data at all times.

The complete flexibility of this instrument was conclusively demonstrated in preparing the additional tests covered by the new chart. All of the most unusual tube base arrangements which are constantly out-moding many of the latest tube testers readily submit to testing in the Philco 050 Tube Tester. This fact, plus the latest up-to-the-minute test chart information, make the 050 the ideal tester for all dealers and servicemen.

Winner Announced in Signal Chasing Contest



"Signal chasing may be fun, but never gets your day's work done."

A tremendous amount of interest was shown in the Signal Chasing Contest which was announced in the September issue of the Philco Serviceman.

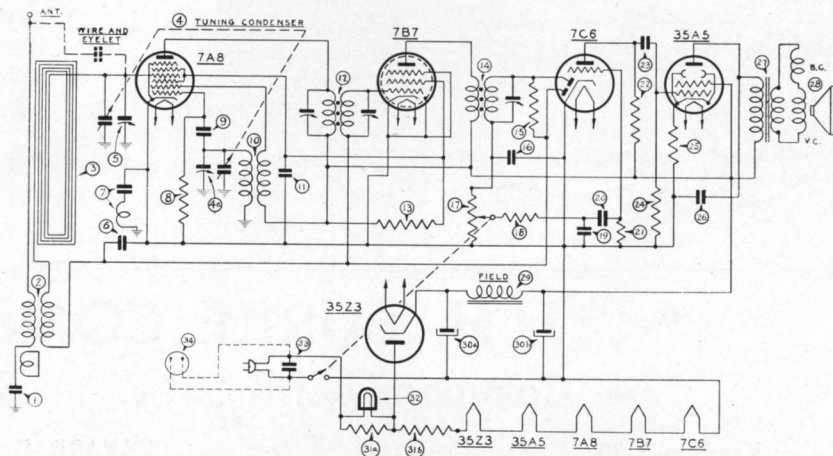
Many entries were sent in and the job of selecting the best one was most difficult for the judges. The general idea of the contest was gained by all of the entrants and it was most interesting to observe the feeling which exists with regard to signal chasing.

Mr. Glenn Godshalk of Three Rivers, Michigan, was the winner of the 026 signal generator. He summed up the various Mike Farad comments in this way, "Signal chasing may be fun, but never gets your day's work done". Our congratulations go to Mr.

Godshalk as winner in this contest. Incidentally, Mr. Godshalk is R.M.S. member No. 25286.

Our congratulations also go to the many others who entered the Signal Chasing Contest by sending to Philco in Philadelphia their version of Mike Farad's appropriate answer to the signal chaser. As consolation prizes for these men, the Philco Service Department has sent to each entrant a high-grade pair of Philco Utica pliers exactly like those used on the Philco wiring assembly lines in the factory.

Your Editor thanks all of those men who entered this interesting contest. Basic circuit testing with the signal generator and circuit tester has scored again.



Wiring Diagram, Philco Radio Model 41-KR

Questions & Answers

1. Q. Have steps been taken to eliminate the lead breakage of the 30-1187 silver mica condenser in Models 41-295 and 41-300?

A. Yes. Up until recently this condenser had a special heavy ground lug, one flexible lead, and one heavy wire lead. Occasional breakage of this part was responsible for an engineering change in which the one condenser is now replaced with two smaller condensers, both Part No. 30-1157.

2. Q. Does cutting through the record surface coating while making a home recording affect the cutting needle in any way?

A. Yes. If the recording needle is accidentally dropped on the record or if some slight imperfection in the record causes the needle to start going through the surface material to the base material of the recording blank, the recording needle should be changed for the next record. The material in the paper base or in the metal base of the record dulls the cutting edges of the needle making replacement necessary.

3. Q. What is the best recommended method of lowering the retractable pin in the turntable of models with Philco Home Recording when the pin rides too high so as to strike the side of the recording head?

A. The turntable should be removed and a few small washers placed over the pin on the underside of the turntable and the pin then re-inserted in the turntable. This procedure is more desirable than attempting to bend the phosphor-bronze spring.

4. Q. In the 1941 Studebaker and Packard Philco auto radio models, what is the purpose of the 1/4" holes found in the side of the housing opposite the tubes and vibrator?

A. These holes are to facilitate the removal of the tubes and vibrator for test. In order to remove a tube, insert the end of a small screw driver through the hole in the housing and between the sub-base and the base of the tube. Then, push on the screw driver and the tube can easily be removed.

5. Q. What is the best method of repairing broken welds in the 41-316 and 41-616 push-button assembly?

A. This assembly is spot welded to the main dial scale bracket at both ends. In case one of these welds should break, the assembly can be bolted to the brackets. There are holes in the assembly which can be used for this purpose.

Colorful Stand Brightens Service Shop Appearance



To pep up the appearance of the service shop, Philco has made available a new test equipment stand which is so designed that it will take any piece of Philco test equipment for convenient display and at the same time have the equipment instantly available for use in other parts of the shop or on outside service calls.

The new display is sturdily constructed of heavy gauge sheet metal and attractively finished in baked-on blue enamel. The stands are so designed that any number of them can be bolted together to accommodate additional test instruments. Inserted in these stands, all test bench instruments are kept in a convenient and orderly position, yet they can be removed instantly at any time.

Your Philco distributor has a special on these stands and we suggest that you get the information now.

Dial Lamp and Flash Light Bulb Display Sells Replacements



Radio pilot lights and flash light bulbs constitute a tremendous replacement market which is open to every dealer and every serviceman.

In order to make it easier for the merchandising of these lamps, Philco has provided a new counter radio dial lamp—flash light bulb display. This is a bright yellow counter display stand on which is actually shown one each of four different type radio dial lamps and one each of the three most commonly used flash light bulbs. The back of the display board has a compartment in which is contained one each of the new ten light pocket packages of Philco pilot lights and flash light bulbs. The kit contains 44 pilot lights in all, and 33 of the most popular flash light bulbs. The list price is \$6.60 and the net dealer price is \$3.96. This is another of Philco's many display items to bring floor traffic into your store.

Test Scale for Home Recording

The recording needle pressure is extremely important when making home recordings. The standard Philco weight should be 1 1/2 ounces. If this pressure is too great, the cutting needle will go through the record blank surface material into the base of the record. If the pressure is too light, the jewel will not stay in the grooves when playing the record.

Philco has a special scale which can be used for checking this weight in order to make any necessary adjustments. The scale hooks under the needle screw and measures accurately in ounces the actual weight of the cutting head on the record. The scale sells at a net dealer price of \$1.14 (Philco Part No. 45-2851).

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