

INSTRUCTIONS

For Connecting and Using the

PHILCOPHONE

INTERCOMMUNICATING SYSTEM



(A loud-speaker phone system for use in offices,
homes, schools, hotels and many other places)

DESCRIPTION

PHILCOPHONE is an improved, efficient system for voice communication between a central point and one or more "remote" points. PHILCOPHONE consists of Model 901 "master" phone and Model 902 "remote" phone. Provision is made on the master phone for connecting from one to four remote phones. These can be easily attached and may be located at any reasonable distance from the master phone.

INSTALLATION

Select the locations desired for the master phone and the remote phone. The master phone should be handy to an electric outlet. Both phones should be located as conveniently as possible for the persons who will be using them. In offices, the usual location is on one side of a desk, somewhat to the rear. When either phone is located on a typewriter desk, the phone can be placed on a thick pad of felt or sponge rubber to prevent the vibration and noise of the typewriter from being picked up and transmitted by the system.

Make connections between the master phone and the remote phone, using Philco two-wire (twisted) "transmission line" either No. L-1551 (black weatherproof) or L-1591 (ivory colored, for use on white woodwork); or twisted* double lamp cord may be used. This wire may be run along the baseboard of the room or in any convenient inconspicuous location. When run along floor or baseboard, use insulated staples for attaching.

* (*Do not* use ordinary, untwisted two wire lamp cord for making connections.)

Make connections of one end of the twisted wires to terminals 1 and 2 at the back of the master phone; connect the other ends to the two terminals at the back of the remote phone.

Insert the plug from the master phone into the nearest electric outlet. The system will operate on either A. C. or D. C. (115 volts). If the current is D. C. and the system does not operate, reverse the plug in the electric outlet—that is, remove it, turn it halfway around and re-insert it.

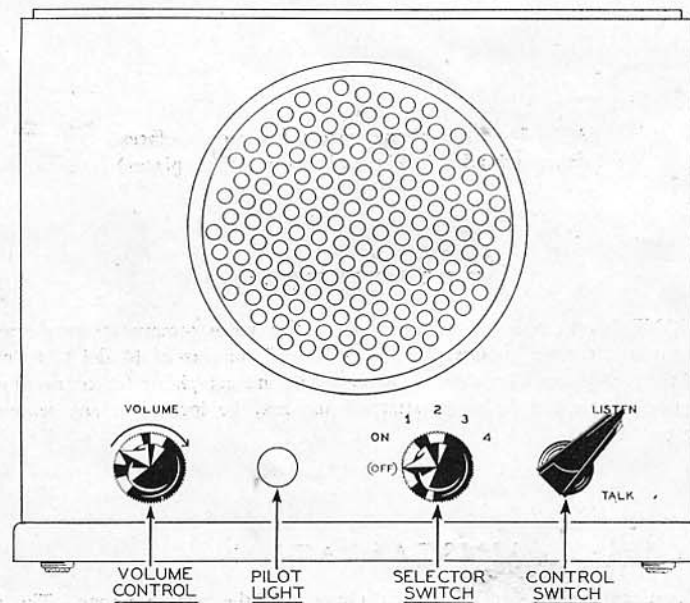
If an objectionable hum is audible when using A. C. current, try the same procedure of reversing the plug in the socket.

OPERATING THE PHILCOPHONE

Preliminary

Turn the selector switch to "on". Advance the volume control a portion of the total movement of rotation (the best position for normal operating use will vary slightly with each installation and can be determined best by trial).

Allow a few moments for the tubes (in the master phone) to reach operating temperature. The system is then ready for use. It should remain turned "on" during the entire period of the day that there might be occasion to use it. This will enable a call to be made instantly either from the master phone to the remote phone or vice versa.



Calling From the Master Phone

Press the control switch to the "talk" position, and speak into the master phone. When finished, release the control switch to the "listen" position. You can then receive an answer from the party at the remote phone. By following the above procedure, two-way conversation can be maintained as long as desired. For best results talk in a normal tone of voice, about two feet away from the phone.

Advancing the volume control on the master phone increases the volume and sensitivity of the system so that conversation can be maintained when the voice of the user is lowered or at a distance from the instrument.

Calling From the Remote Phone

One of the most important uses of the PHILCOPHONE in offices, etc., is to enable the party at whose desk the remote phone is located to call the master phone. For example, the remote phone is often placed on the desk of the secretary to an executive; in the outer office, or on the "reception" desk, or information desk of a large office, to announce callers, etc., to the executive or inner office. (The latter, in whose office the master phone is located, can in turn call the secretary, etc., whenever he wishes.)

All that is necessary is for the party at the remote phone to speak the message into it, (generally calling the name of the executive first to see if he is free to talk) and it will be heard at the master phone, since the control switch on the master phone remains in the "listen" position until depressed manually while the answer is being given.

OPERATING (Continued)

Connecting Additional Remote Phones

Provision is made for connecting up to four "remote" phones with this system.

There are five terminals at the rear of the master phone, numbered "1" to "5". A connecting link joins terminals "2" to "3" and "4" to "5" as the outfit is furnished. This connection is correct for the use of one remote phone.

When using only one remote phone, connect the wires from it to terminals "1" and "2" at back of master phone.

When using two remote phones, remove the connecting link between terminals "2" and "3", and connect the second phone to terminals "2" and "3". When using three remote phones, connect the third to terminals three and four.

If four remote phones are used, remove both of the links and connect the leads from the fourth phone to terminals "4" and "5". To simplify making connections to the remote phones, use Philco cable assembly, part No. 45-2443. This is an 8-foot cable with one end designed to connect on the terminals at the back of the master phone panel. This cable can be run down the side or back of desk or counter on which the master phone is located, and the terminal panel at lower end of cable then attached to the pairs of twisted wires leading to the several remote phones.

Operating the System With More Than One Remote Phone

To call any one of the "stations" where a remote phone is located, turn the selector switch on the master phone to the correct number and then proceed. The conversation will then take place between master phone and the desired remote station only.

To call all the remote stations at once, place the switch in the "on" position. In this position all the remote phones will hear the master phone, and the master phone will receive a call from any one of them.

For Paging or Locating Persons

Where several remote phones are used, the system is very useful for "paging" or locating someone who might be near where one of the phones is located. Turn the selector switch to the "on" position, call the name of the desired party, then turn the control switch to "listen". If the party wanted is near one of the phones, he can answer into it; if the operator at one of the phones has seen the person called recently, he or she can give that information into the phone.

After the party has been located and his phone location mentioned, the master phone operator should turn his switch to the correct position number. This will limit the conversation to the desired remote phone only.

To be ready to receive a call from any of the remote stations, leave switch on the master phone in the "on" position.

When a call is received from any remote phone, press the "talk-listen" switch to "talk" and inquire which station is calling; then turn the selector switch to that number. This excludes the other stations from the conversation.

When finished talking, be sure to return the selector switch to the "on" position so as to be ready to receive future calls from any of the stations.

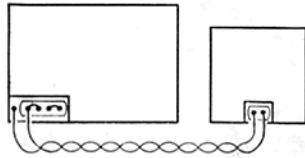


FIGURE 1
PHILCOPHONE Connections Using One Remote Phone.

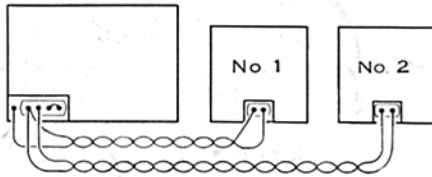


FIGURE 2
Showing Connections for Two Remote Phones

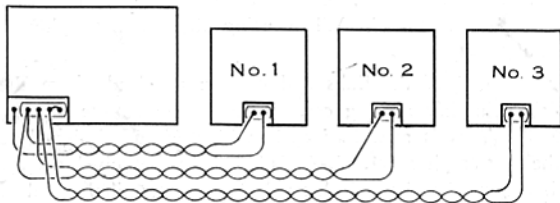


FIGURE 3
Connections for Three Remote Phones

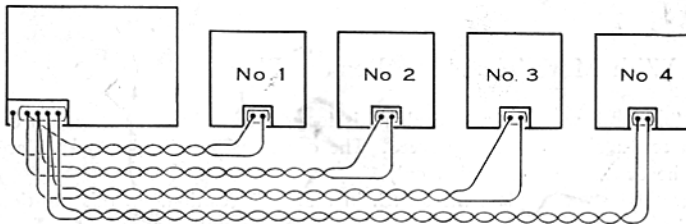


FIGURE 4
PHILCOPHONE Connections, Using Four Remote Phones

ACCESSORIES FOR USE WITH PHILCOPHONE

Remote phones (additional) \$10.00 each. Model No. 902.

Outdoor (weatherproof) hook-up wire, Philco part No. L-1551, \$3.00 per hundred feet.

Indoor (ivory color) hook-up wire. Philco part No. L-1591, list \$3.00 per hundred feet.

Black porcelain nail-on knobs, outdoor use, Part No. 27-7903. List each \$.05.

8 foot cable with terminals panel for master phone, for neat convenient installation of more than one phone. Philco Part No. 45-2443. See your Philco dealer for price.

Insulated staples, part No. W-917, \$.40 per hundred.

NOTE: It is not necessary to run wiring between the PHILCOPHONES in conduit. PHILCOPHONE is approved by the Underwriters Laboratories, Inc.