

PHILCO SERVICEMAN



RADIO • MANUFACTURERS • SERVICE • NEWS



APRIL, 1942

EDITORIAL

INCREASING VALUES

Reports reaching us from various radio training schools tell of greatly increased activity in the study of technical radio.

Many men who have never had any great amount of formal radio training realize now more than ever the importance of getting a sound basic understanding of the principles of radio communication. Some of these men are studying radio with a view of going into the Army or Navy as radio technicians. They realize that radio in the armed forces is more important today than ever before in the history of the country. They want to know radio thoroughly so that when their time comes to serve they can be of greatest possible value.

Service Work On Increase

The importance of training of this kind cannot be overemphasized. At the present time a good radio technician is most valuable and his services are very much in demand. Many servicemen who have been extremely active and who have been able to earn a satisfactory income through service have gone into the Army or the Navy. The amount of civilian service work today is probably more than it has been at any other time in the past. Present indications would seem to show that this work is on the increase so that there will be further demands with further curtailment in civilian radio production.

More Jobs in Less Time

The result is that the men who are still in active radio service work are being called upon to do more jobs and to do them in a more efficient manner and in less time than ever before. The length of time required for a given job and call-backs made necessary by improper initial diagnosis or repair are factors of extreme importance today. The well-trained radio serviceman can go about his trouble-shooting work with a far greater degree of confidence than the untrained man. Likewise, the trained man is in a position to work much faster in addition to working more accurately and thus he can turn out more jobs and make more money in a given length of time.

It can be readily seen that one of the best investments for the man who intends to continue in radio service work is an investment in radio education. This type of training is something which will stand him well throughout a lifetime.

PHILCO POLISHES

- a polish for every requirement -

FURNITURE POLISH

A high quality polish developed to beautify and protect the finer cabinet and furniture finishes.

Makes an attractive counter display item in the six bottle display carton.

This polish produces a dry, glossy surface with NO HARD RUBBING.

FOR SERVICE USE OR ACCESSORY SALE.

Available in Three Sizes

Part 45-1175—One 8 oz. bottle.....	List \$.75
Part 45-1321—Six 8 oz. bottles in attractive display carton.....	List 4.50
Part 45-1364—52 oz. tin.....	List 3.95



WAX BASE POLISH and CLEANER

Gives beautiful hard, shiny wax finish to furniture, refrigerators, automobiles, etc.

Available in neat counter display of 6 eight ounce bottles or in individual eight ounce bottles.

Part 45-1453—1 eight ounce bottle.....	List \$.75
Part 45-2930—6 bottles in display carton.....	List 4.50



REFRIGERATOR POLISH

One polish solves the problem of cleaning, polishing, and protecting white lacquered and porcelain surfaces in one operation!

Using this polish and recommending it to the customer will pay huge dividends in sales.

Available in counter display cartons of six bottles and in individual 8 ounce bottles.

Part 8020-3—One 8 oz. bottle.....	List \$.80
Part 8900-1—Six 8 oz. bottles in attractive display carton.....	List 4.75

PHILCO ALL-PURPOSE LUBRICATOR



Originally developed by Philco to silence noisy radio push button switch contacts, the Philco All Purpose Lubricator is now being used for a thousand and one lubricating jobs. The lubricator forms a film of high electrical conductivity with the surface of the metal. Useful for fishing reels, guns, office equipment, and all high grade machinery.

Part 45-2806—Single large tube. List \$.50

In display cartons of twelve tubes. List 6.00



R.M.S. QUESTIONNAIRE REPLIES STILL COMING IN

Space does not permit us to print any more than the names and addresses of the following additional R.M.S. Members who sent in kind comments about the R.M.S. Organization. THANKS VERY MUCH TO THE FOLLOWING:

From Prince Edward Island

J. O. S. Hunter, Kensington

From Nova Scotia

G. Charlton, Bridgetown
S. R. Forbes, Brooklyn
R. B. Payne, Brooklyn P.O.,
Newport
L. M. Cote, Glace Bay
P. Ryan, Glace Bay
Bligh Radio Service, Halifax
G. Woodcock, Halifax
R. H. Rohrback,
Paschendale, N.S.
D. Dunlop, Pictou
J. B. Chermak, Sydney
W. R. Macdonald, Sydney
J. S. Stewart, Sydney Mines
J. Miller, Trenton
E. MacDormand, West Port
C. L. Robbins, Yarmouth

From New Brunswick

L. Goudreau, Campbellton
J. O. Leger, Campbellton
H. A. Hamilton, Canterbury
G. D. Love, Fredericton
H. V. Baxter, St. John
N.B. Radio Co., St. John
Radio Lab., St. John
A. Comeau, Shemogue
Bauer & Owen, W. St. John

From Quebec

C. O. Jones, Jr., Bedford
A. Frappier, Chambly Bassin
C. Palaisy, Grand Mere
J. J. Brochu, Lac St. Jean
J. E. Pearson, Lac St. Jean
U. Rivard, La Tuque
A. Basse, Montreal
R. A. Bota, Montreal
G. Favreau, Montreal
J. L. Fillion, Montreal
L. W. Francis, Montreal
F. T. A. Griffiths, Montreal
I. Gurwitz, Montreal
B. Hormisdas, Montreal
E. M. Kydd, Montreal
A. La Flamme, Montreal
A. La Roche, Montreal
A. Nelson, Montreal
L. Pilote, Montreal
H. D. Pound, Montreal
P. Provost, Montreal
G. P. Rogal, Montreal
E. Rouleau, Montreal
H. St. Hilaire, Montreal
W. Sevigny, Montreal
R. Smith, Montreal
P. Trifilette, Montreal
A. Marcotte, Mont Rollant
H. G. Ascah, Peninsula
A. Beaudin, Pont Viau
C. A. Couture, Quebec
G. Fecteau, Quebec
A. Fradet, Quebec
J. Laverdiere, Quebec
J. McMannis, Richmond
J. E. D'Assylva, Rimouski
A. P. Murphy, Rosemount
F. H. Farmer,
St. Anne de Bellevue
E. Thibeault, St. Omer
G. Desnoyers,
St. Therise de Blainville
C. Audet, Sherbrooke

Livingstone Bros.,
Temiskaming
G. L. Lallier, Thetford Mines
L. Pelletier, Trois Pistoles
L. Poirier, Val d'Espoir
M. Walsh, Valleyfield
P. Boisvert, Vercheres
R. Rochon, Verdun
J. Williamson, Verdun

From Ontario

K. Kilkenny, Bradford
A. H. Ellis, Brantford
W. O. Harvey, Brighton
B. Baker, Brockville
A. L. Grue, Brockville
J. McAllister, Chapleau
Edwards Radio Service,
Chatham
E. C. Millward, Cooksville
R. C. Levy, Cornwall
A. B. Kamins, Dunnville
C. G. Schneider, Elmwood
E. A. Maybee, Fenelon Falls
J. P. Sure, Fort William
E. J. Kejanik, Galt
W. K. Anderson, Hamilton
G. Marr, Hamilton
C. C. Martin, Hamilton
J. E. Osbaldeston, Hamilton
R. W. Saunders, Hamilton
N. A. Schneider, Hanover
D. S. Jackson, Hespeler
A. T. Brothers, Ilderton
R. A. Honsberger,
Jordan Station

Can. Radio Stores, Kingston
F. R. Seymour, Larder Lake
R. D. Selkirk, Leamington
D. J. Deeks, Leaside
S. C. Lake, London
W. Nixey, London
W. E. Phillips, London
V. Graham, Long Branch
J. Wallace, Long Branch
H. McTavish, Mac Tier
Johnston's R.&E. Service
Meaford

A. W. Hart, Midland
W. F. Skitch, Mill Brook
C. McCall, Niagara Falls
E. Audebec, Noelville
J. Adams, Oshawa
R. L. Whittington, Oshawa
L. Charlebois, Ottawa
Hayes & Henderson, Ottawa
W. J. Rowles, Ottawa
R. Steel, Ottawa
W. Welsh, Ottawa
T. G. Ross, Owen Sound
H. C. Dyer, Preston
W. M. McKibbon,
St. Catharines

S. S. Boychuk,
Sault Ste. Marie
W. M. McKibbon,
Sault Ste. Marie
H. J. F. Culham, Stayner
G. H. Koch, Stratford
W. Ailles, Toronto
O. W. Bain, Toronto
H. L. Barnett, Toronto
E. Burns, Toronto
R. Chapman, Toronto
E. Charles, Toronto
J. Collister, Toronto
W. H. Crosken, Toronto

F. A. Duncumb, Toronto
A. Elliott, Toronto
R. Goodwin, Toronto
J. W. Griffiths, Toronto
C. Hartman, Toronto
R. Hay, Toronto
A. S. Jones, Toronto
N. Kane, Toronto
E. Kennedy, Toronto
A. H. Langdale, Toronto
J. Mains, Toronto
F. Master, Toronto
McLean Radio, Toronto
R. A. McLeish, Toronto
W. H. Miller, Toronto
F. Osler, Toronto
J. Owen, Toronto
L. A. Robertson, Toronto
J. Simmons, Toronto
L. B. Sloan, Toronto
T. G. Spencer, Toronto
W. G. Stoot, Toronto
Wm. Stauffer, Toronto
D. A. Tong, Toronto
H. W. Tonkin, Toronto
V. Wagner, Toronto
K. Wallace, Toronto
K. Winterbon, Toronto
K. R. Armstrong, Trenton
H. V. Evans, Welland
J. B. Lanouette, Westboro
J. F. Palubski, Wilno
J. W. McCloskey, Windsor
Radio Elect. Service Co.,
Windsor
J. W. Pattison, Wingham
L. E. Gabel, Woodstock

From Manitoba

Qu Wah, Cartwright
J. P. Latour, Fannystelle
J. Kuhny, Flin Flon
J. T. Clark, Port. La Prairie
Rodgers Radio Service,
Portage La Prairie
C. J. Vollrath, St. James
M. A. LaChapelle, Warren
J. Black, Winnipeg
P. W. Brown, Winnipeg
D. A. Calnitsky, Winnipeg
F. C. Dowle, Winnipeg
Hagen's Radio Labs.,
Winnipeg

H. Mardas, Winnipeg
W. Sexton, Winnipeg
D. M. Silverberg, Winnipeg
C. H. Woodman, Winnipeg

From Saskatchewan

A. Pederson, Bengough
O. W. Cory, Burnham
F. C. Henderson, Carievale
E. E. Graham, Carlyle
A. Bertrand, Gollivan
R. Rigetti, Glentworth
C. McHanson, Leask
G. A. Duffield, Lloydminster
E. G. Panian, Loon Lake
D. W. Howe, Marcelin
L. F. Hedberg, Melfort
A. Hubenig, Melville
G. Wunsch, Morse
L. V. Childs, Naicam
Radio & Electric Shop,
N. Battleford
J. W. Fowler, Quill Lake

D. E. Crabb, Radisson
Child & Gower Piano Co.,
Regina

R. C. Welch, Tisdale
G. F. Moore, Tugaskie
S. G. Culbertson, Weyburn
A. F. Miller, Whitewood

From Alberta

J. M. Danyluk, Andrew
T. A. Crowe, Calgary
F. E. Parsons, Calgary
J. Woslyng, Cardston
P. B. Plew, Duchess
M. Thomson, Edmonton
R. Pascoe, Fairview
A. L. Campbell, Innisfail
R. A. Herder, Irma
H. G. Bowen, Jasper
W. E. Jackson, Leduc
J. B. Northfield, Lethbridge
H. J. Bowman, McLennan
W. Lindgren, McLennan
W. T. Braithwaite, Rimby
R. A. White, Three Hills
J. P. Harmacy, Winfield
F. J. Harrington,, Wonham

From British Columbia

W. H. Simpson, Armstrong
E. H. Dann, Cloverdale
G. Chamberlain, Dawson Ck.
P. Mayert, Field
G. McAllan, Fernie
J. R. Dohm, Kamloops
A. G. Laird, Kamloops
F. Watts, Ladner
L. A. Lockley, Mission City
B. Keeling, Natal
E. A. Mullins, New Westm'tr
C. W. Johnson, N. Vancouver
Rossland Electric, Rossland
E. F. Crosby, Vancouver
F. Davis, Vancouver
A. Howe, Vancouver
F. W. Tighe, Vancouver
C. F. Tolwell, Vancouver
L. E. Hofeld, Vernon
S. Ireland, Victoria
Brown & Munton,
West Vancouver

**You too can SERVE-
by SAVING!**



**BUY
WAR SAVINGS
CERTIFICATES**

R.M.S. Correspondence

Mr. W. Davis, Service Manager of Anthony Foster & Sons Ltd., Philco distributors for Central and Northern Ontario says: "Many older models of Philco radios have a control grid lead coming up through the socket-mounting eyelet. In such cases where there is also a tube shield, it is very important that the control grid lead be placed inside the tube shield. Otherwise oscillation may result. Another possibility is that the tube shield may cut the insulation of the control grid lead and ground the control grid."

We are indebted to the following R.M.S. members who took the trouble to write in with these comments:

J. W. MUMA of Montreal, P.Q.—"Thanks indeed for the January R.M.S. mailing. May I say that I for one, do appreciate the many helps sent out by you."

H. G. IONSON of Islington, Ont.—"Am writing a few lines to express my gratitude for your help by the monthly mailings of notes, and also the Philco Serviceman pamphlet. I find it indeed a help and would not want to miss a single issue."

GERALD J. HARRON of Tara, Ont.—"Please find enclosed the R.M.S. Questionnaire. I look forward for every mailing from the R.M.S. headquarters, and the Philco Serviceman. The new R.M.S. Standard Labour Charges are much better than the old ones. They eliminate a lot of guessing in knowing what a fair charge should be."

"I like the operating notes in the Philco Serviceman the best, in fact the whole magazine is good. I only hope the R.M.S. will continue on in the future and help the service industry as a whole as much as it has helped me."

STANLEY J. CURRIE of Huntingdon, P.Q.—"I wish to voice my appreciation of the 'Serviceman'. I have been receiving it for some time (since (Continued on Page 4)

Notes on Philco Model 050 Tube Tester

1. If the line voltage is too high, so that the line voltage adjustment will not give full control, it may be advisable to replace the 25,000 ohm resistor in the tube checker. This 25,000 ohm resistor is connected to the plates of the 84 tube, and should be replaced (in the above circumstances) with a 27,000 ohm 1/2 watt resistor.

2. Type 5Y4G tube shows "shorted" on the short test, although the tube is O.K. The tube is O.K. as long as the emission test is satisfactory.

Questions and Answers

From R. A. Herder of Irma, Alta.—"In the January 1942 issue of the Philco Serviceman I noticed an article on using headphones on Philco sets. If it is not too much trouble, could you send me a diagram of that part of a radio so that I can understand your message better."

Answer — (A personal reply was made to Mr. Herder, and the sketch is reprinted below for the benefit of any one who may have the same problem). "The switch shown in the broken lead from the secondary of the output transformer to the voice coil winding is for the purpose of making the speaker dead while the head phones are in use."



WILLIAM HIGGINS
Service Manager for Motor Car Supply Co. of Canada Ltd., Philco distributors for Alberta at Calgary, Alta.

R.M.S. Standard Labour Charge Vest Pocket Cards



OUR CHARGES
FOR RADIO SERVICE AND REPAIRS
ARE STANDARD AND REASONABLE

as Recommended by
Radio Manufacturers Service

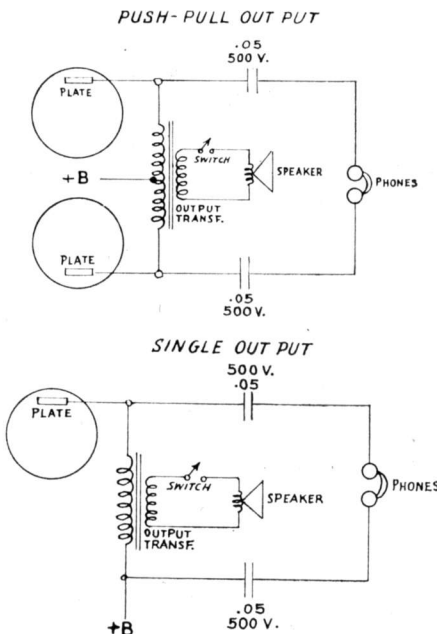
Vest Pocket cards, with the R.M.S. Standard Labour Charges imprinted on them are available from Philco distributors. Each card measures 2 1/2" wide by 6" long when folded.
Part No. PR-891V.

Philco Parts Catalogue

New Catalogue sheets, Section X—Pages 1 and 2, and Section VII—Pages 9 and 10 have just been issued. Your complete Philco Loose Leaf Parts Catalogue should now contain the following sheets:

Section	Pages	Dated
I—1, 2, 3, 4		7/41
II—3, 4, 5, 6, 7, 8		12/41
II—1, 2		11/41
III—1, 2, 3, 4		4/41
IV—1, 2, 3, 4		3/41
V—1, 2		4/41
VI—1, 2, 3, 4		2/42
VII—1, 2		4/41
VII—3, 4		2/42
VII—5, 6, 7, 8		8/41
VII—9, 10		4/42
VII—11, 12, 13, 14, 15, 16, 17, 18		8/41
VII—21, 22		4/41
VII—23, 24, 25, 26		5/41
VIII—1, 2, 3, 4, 5		2/42
IX—1, 2, 3		2/42
X—1, 2		3/42

Extra copies of all Catalogue pages are available from your Philco distributor.



**Long Life Needle
Attractive Dealer
Profit Item**



The Philco long life phonograph needle—good for 4,000 records—is now available in an attractive display card for Philco dealers.

These needles can be readily used in standard phonograph record players when the replaceable type needle is needed. The same quality reproduction plus the extreme long life make this needle most desirable for the phonograph user.

From the dealer's standpoint, the Philco Long-Life Needle is a very attractive proposition. It is supplied on a display card of twelve needles, (indicated selling price \$22.80) net price to the dealer \$13.65. The Philco part number of this display of 12 needles is 45-2933. Be sure to order this real money-maker now, from your Philco distributor.

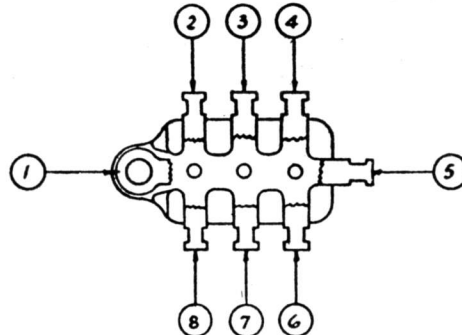
Philco Service Bulletins

Philco distributors and R.M.S. members have just received Service Bulletin No. 361 on the Model 705 Phonograph Combination. This completes the issue of all 1942 Philco Service Bulletins sent to R.M.S. members on 1942 Philco models. The complete list of 1942 bulletins issued to date is:

Bulletin No.	Model
350.....	810
351.....	807
352.....	808
353.....	55
354.....	46, 46L
355.....	47, 48
356.....	49, 52
357.....	50, 51
358.....	215, 216
359.....	53
360.....	54

Philco Bakelite Condensers R.M.S. Members Corner

A new Parts Catalogue page will be released shortly to all R.M.S. members describing the famous Philco line of Bakelite Condensers. A few types were left off this page due to lack of room. Here they are:



CONDENSER 7762—.001 MFD., 1200 W. VOLTS

Part No.	Cap. Mfd.	Wiring Lugs	List Price
7762C	.001	7-8	\$.30
7762EU	.001, .011	{.001 6-8 .011 7-8	.35
7762SG	.001	6-8	.30

CONDENSER 8035—.0001 MFD., 1200 W. VOLTS

8035B	Twin .0001	1-5, 1-7	.35
8035C	Twin .0001	1-6, 1-7	.35
8035D	.015, .0001	{.015 3-4 .0001 1-4 .015 6-7	.35
8035F	.015, .0001	{.0001 7-8	.35
8035K	Twin .0001	1-6, 1-7	.35
8035SG	.0001	6-8	.30
8035SU	.0001	6-8	.30
8035ODG	Twin .0001	6-8, 7-8	.35
8035ODU	Twin .0001	6-8, 7-8	.45

CONDENSER 8174—1200 WORKING VOLTS

8174B	.0007, .05	{.0007 1-6 .05 1-3	.30
8174DG	Twin .007	6-8, 7-8	.30

**Corrections to
Philco Service Bulletins**

Bulletin No. 360, Model 54, item 12. Broadcast Antenna Coil should read Part No. 12-0020, not 12-0021.

Bulletin No. 353, Model 55, item 64. Volume Control should be 33-5438, not 33-5439.

Back Copies of Serviceman

Back copies of many issues of the Philco Serviceman are available from your Philco distributor, or direct from R.M.S. Headquarters, 1244 Dufferin St., Toronto.

If you want to bring your file of this monthly magazine up to date, simply write to your distributor, or to Philco, stating what issues you would like to have. While the supply lasts, these will be promptly supplied, no charge.

POSITIONS OPEN

(Address all replies to Editor, Philco Serviceman, 1244 Dufferin St., Toronto, Canada)

- DESIGN ENGINEER**
Must be a graduate of a recognized University with a degree in Electrical Engineering. Must have commercial experience in Radio design. In reply state your age, list your radio experience, and state what associations you belong to (I.R.E., etc.)
- LAB ASSISTANT**
Must be technical school graduate, or equivalent. Sheet metal model-making experience essential. Must be familiar with precision tools and measuring equipment. State age, experience and associations.
- DRAFTSMAN**
Technical school graduate, or equivalent. Must be familiar with mechanical and electrical drafting as used in radio work. State age, experience and associations.

EQUIPMENT NEEDED

(Address all replies to Editor, Philco Serviceman, 1244 Dufferin St., Toronto, Canada)

Precision radio test equipment manufactured by General Radio Co., Ferris, Boonton Corp., or similar companies.

Weston Meters (5" diameter or larger).

If you have any such equipment that you would like to sell, reply giving full name of the equipment, model No., manufacturers and the price you expect.

R. M. S. Correspondence

(Continued From Page 3)

1936), and find it a great help, not only because of its data, but also by helping to keep in touch with the way others do it.

"In all cases I recommend Philco because I know Philco through the data supplied by R.M.S. and also because I know Philco is a fine radio."

J. E. SUTHERLAND of Toronto, Ont." I wish to tell you how I appreciate all the mailings you have been sending me, and the information contained therein has proven to be of great help.

"Because of these mailings I have become more attached to Philco, and would prefer to push the sale of your products more than any other, as I am sure other members will agree."

PHILCO CORPORATION of Canada Limited

**PARTS AND SERVICE DIVISION
TORONTO**

The Philco Serviceman reaches you free of charge with the compliments of your Philco Distributor