

INSTRUCTIONS

FOR

PHILCO

REG. U.S. PAT. OFF.

BALANCED-UNIT RADIO

Model 84



Philco Radio & Television Corporation

PHILADELPHIA — TORONTO — LONDON

STANDARD BROADCASTING STATIONS

Dial	Station	LOCATION	Dial	Station	LOCATION	Dial	Station	LOCATION
54	CJRM	Moosejaw, Sask.	87	WENR	Chicago, Ill.	122	WDAE	Tampa, Fla.
55	WGR	Buffalo, N. Y.	87	WLS	Chicago, Ill.	122	WCAE	Pittsburgh, Pa.
56	WFI	Philadelphia, Pa.	88	CRCO	Ottawa, Ont.	122	WREN	Lawrence, Kans.
56	WLIT	Philadelphia, Pa.	89	WJAR	Providence, R. I.	123	KYA	San Francisco, Calif.
57	WNAX	Yankton, S. D.	90	KHJ	Los Angeles, Calif.	123	WNAC	Boston, Mass.
57	WWNC	Asheville, N. C.	90	WKY	Oklahoma City, Okla.	123	WFBM	Indianapolis, Ind.
58	KSAC	Manhattan, Kans.	91	CRCM	Montreal, Que.	124	WXYZ	Detroit, Mich.
59	KHO	Spokane, Wash.	92	KOMO	Seattle, Wash.	124	WKAQ	San Juan, Porto Rico
59	WOW	Omaha, Neb.	92	WWJ	Detroit, Mich.	125	WDSU	New Orleans, La.
59	WEEL	Boston, Mass.	93	WBRC	Birmingham, Ala.	125	WGAL	Northfield, Minn.
60	KFSD	San Diego, Calif.	94	WCSH	Portland, Maine	126	KOIL	Council Bluffs, Iowa
61	KFRC	San Francisco, Calif.	95	KMBC	Kansas City, Mo.	127	WJDX	Jackson, Miss.
61	WIP	Philadelphia, Pa.	95	WRC	Washington, D. C.	128	WGAM	Camden, N. J.
61	WDAF	Kansas City, Mo.	96	CKY	Winnipeg, Man.	128	WDOD	Chattanooga, Tenn.
62	KGW	Portland, Ore.	97	KJR	Seattle, Wash.	129	KDYL	Salt Lake City, Utah
62	WTMJ	Milwaukee, Wis.	98	KDKA	Pittsburgh, Pa.	129	WJAS	Pittsburgh, Pa.
63	WOS	Jefferson City, Mo.	99	WBZ	E. Springfield, Mass.	130	WIOD	Miami Beach, Fla.
64	KFI	Los Angeles, Calif.	99	WBZA	Boston, Mass.	130	KFAC	Los Angeles, Calif.
64	WOI	Ames, Iowa	100	WHO	Des Moines, Iowa	131	WHAT	Philadelphia, Pa.
65	WSM	Nashville, Tenn.	101	WNOX	Knoxville, Tenn.	132	WADC	Akron, Ohio
66	WEAF	New York, N. Y.	102	KYW	Philadelphia, Pa.	132	WSMB	New Orleans, La.
67	WMAQ	Chicago, Ill.	103	CFGN	Calgary, Alta.	133	KSCJ	Sioux City, Iowa
68	KPO	San Francisco, Calif.	104	WTIC	Hartford, Conn.	133	WTAQ	Eau Claire, Wis.
68	WPTF	Raleigh, N. C.	105	KNX	Los Angeles, Calif.	133	WDRG	Hartford, Conn.
69	CFRB	Toronto Ont.	106	WBAL	Baltimore, Md.	133	WSAI	Cincinnati, Ohio
70	WLW	Cincinnati, Ohio	106	KTHS	Hot Springs, Ark.	134	WSPD	Toledo, Ohio
71	WOR	Newark, N. J.	107	WTAM	Cleveland, Ohio	135	KWK	St. Louis, Mo.
72	WGN	Chicago, Ill.	108	WBT	Charlotte, N. C.	136	WFBL	Syracuse, N. Y.
73	CKAC	Montreal, Que.	109	KMOX	St. Louis, Mo.	137	KMAG	San Antonio, Texas
74	WSB	Atlanta, Ga.	110	WLWL	New York, N. Y.	137	WDAS	Philadelphia, Pa.
75	WJR	Detroit, Mich.	110	WPG	Atlantic City, N. J.	138	WKBH	La Crosse, Wis.
76	WJZ	New York, N. Y.	110	KWKH	Shreveport, La.	139	WHK	Cleveland, Ohio
77	KFAB	Lincoln, Neb.	111	KSOO	Sioux Falls, S. D.	139	KLRA	Little Rock, Ark.
77	WBBM	Chicago, Ill.	111	WRVA	Richmond, Va.	140	KLO	Ogden, Utah
78	WMC	Memphis, Tenn.	112	KCOC	Hamilton, Ont.	141	KGRS	Amarillo, Texas
79	KGO	Oakland, Calif.	113	KSL	Salt Lake City, Utah	142	WEHS	Chicago, Ill.
79	WGY	Schenectady, N. Y.	113	WJJD	Mooseheart, Ill.	143	KECA	Los Angeles, Calif.
80	WBAP	Fort Worth, Texas	114	KVOO	Tulsa, Okla.	144	KDFN	Casper, Wyo.
80	WFAA	Dallas, Texas	114	WAPI	Birmingham, Ala.	145	KTBS	Shreveport, La.
81	WCCO	Minneapolis, Minn.	115	WHAM	Rochester, N. Y.	146	KSTP	St. Paul, Minn.
81	WNYC	New York, N. Y.	116	WOWO	Fort Wayne, Ind.	146	WJSV	Mt. Vernon Hills, Va.
82	WHAS	Louisville, Ky.	116	WWVA	Wheeling, W. Va.	147	KGA	Spokane, Wash.
83	KOA	Denver, Colo.	117	WCAU	Philadelphia, Pa.	147	WLAC	Nashville, Tenn.
83	WRUF	Gainesville, Fla.	118	KOB	Albuquerque, N. M.	148	WKBW	Buffalo, N. Y.
84	CRCT	Bowmanville, Ont.	119	WOAI	San Antonio, Texas	148	KOMA	Oklahoma City, Okla.
85	WWL	New Orleans, La.	122	KWSC	Pullman, Wash.	149	WCKY	Covington, Ky.
86	WABC	New York, N. Y.	122	KFKU	Lawrence, Kans.	150	KPJM	Prescott, Ariz.

POLICE BROADCASTING STATIONS

CITY	STATION	CITY	STATION	CITY	STATION
MUNICIPAL POLICE 1712 K.C. (170 on Dial)		MUNICIPAL POLICE—Continued		MARINE POLICE 1558 K.C. (156 on Dial)	
Arlington, Mass.	WPED	Medford, Mass.	WPHG	Boston, Mass.	WEY
Beaumont, Texas	KGPP	New Bedford, Mass.	WPFN	Detroit, Mich.	WKDT
Berkeley, Calif.	KSW	Newton, Mass.	WPPA		
Boston, Mass.	WPGV	Palo Alto, Calif.	KGHK	STATE POLICE—1534, 1574 K.C. (156 on Dial)	
Chicago, Ill.	WPDB	Pasadena, Calif.	KGJX	Columbus, Ohio	WPGO
Chicago, Ill.	WPDC	Pittsburgh, Pa.	WFDU	Des Moines, Iowa	KGHO
Chicago, Ill.	WPDD	Pomona, Cal.	KNFJ	East Lansing, Mich.	WRDS
Cincinnati, Ohio	WKDU	Providence, R. I.	WPEI	Framingham, Mass.	WMP
Cohasset, Mass.	WPGU	San Bernardino, Cal.	WPGF	Harrisburg, Pa.	WPSP
Dallas, Texas	KVP	San Jose, Cal.	KGZY	Middleboro, Mass.	WPPE
Houston, Texas	KGZB	Santa Cruz, Cal.	KGPM	Northampton, Mass.	WPEW
Lexington, Ky.	WPET	St. Louis, Mo.	KGZT	Schenectady, N. Y.	WPGC
Los Angeles, Calif.	KGPL	Sommerville, Mass.	KGPC		
		Waco, Texas	WPEH		
		Whittier, Cal.	KGZO		
			KGHY		

INSTRUCTIONS

PHILCO

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Balanced-Unit Radio

Model 84

DESCRIPTION—Model 84 is a compact superheterodyne receiver for use on alternating current (A. C.) of the voltage and frequency indicated on the chassis nameplate. It is designed to receive standard broadcast programs and also Police stations on frequencies below 1720 K. C.

To obtain the excellent results this receiver is designed to give, the instructions below should be followed carefully:

PRELIMINARY STEPS—Remove all packing material from around the tubes. Make sure that all tubes are firmly seated in their sockets by pressing down on top of each. Check the two type "77" tubes (Fig. 1) to see that the metal clip is tightly set on the terminal at top of tubes. See that the metal shield, used on one of these tubes, is firmly seated on its base.

AERIAL—For best results, we recommend the use of the Philco "Three Purpose Antenna System." This specially designed antenna system gives maximum range and clearness of reception and reduces static caused by local electric machinery and wiring; it also makes possible the use of more than one radio from the same antenna. This equipment can be obtained from your Philco dealer. Complete instructions for installing are supplied with the kit.

Very satisfactory results may also be obtained with a well constructed outside aerial. This should consist of a straight length of stranded copper wire from 50 to 100 feet long, as high as possible, and supported by glass or porcelain insulators at both ends. The antenna should be one continuous wire down to the receiver, to avoid joints, and should be kept as far as practical from the building and other objects, especially metal pipes, tin roofing, etc. The lower end of the antenna wire should be brought through the window by means of a porcelain tube, or window lead-in strip. Attach the bared end of wire to the terminal at rear of chassis (marked ANTENNA in Fig. 1).

If an outside antenna cannot be installed, reception may be obtained by using an indoor antenna consisting of a straight insulated wire, 30 or 40 feet long, run through a hallway or in some convenient manner in the room.

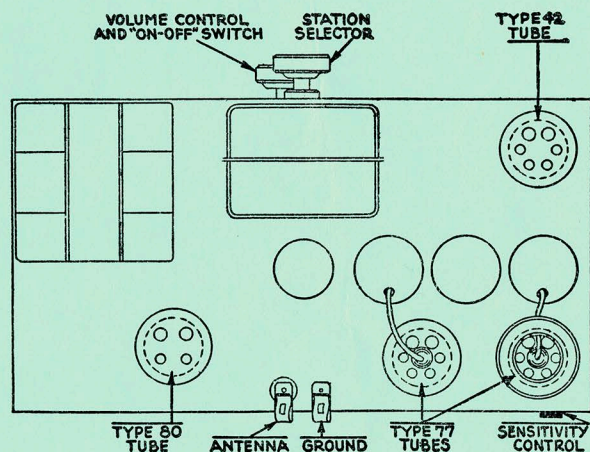


Fig. 1 — Model 84 Chassis — Top View (from rear)

PHILCO MODEL 84 INSTRUCTIONS

GROUND—No-ground connection is required in most installations. In some localities, however, hum from the power line or man-made static may interfere with the programs. In this case a ground connection is recommended. This is made by running a wire from the "GROUND" clip (see Fig. 1) on the chassis to the nearest water pipe or radiator pipe. Use a "ground clamp" for making the connection to the pipe, and be sure that the section of pipe used is scraped clean and shiny before attaching the clamp.

POWER SUPPLY—Insert the plug at the end of the attachment cord supplied with the set into the nearest A. C. outlet.

The Receiver is Now Ready to Operate

OPERATION—The lower knob on front of set (see Fig. 1) is the combined On-Off Switch and Volume Control. The first movement to the right gives a "click" which turns the set "on" and illuminates the dial; further turning increases the volume. Turn knob about one-half of the total movement to the right (clock-wise). In about thirty seconds the tubes will become heated. Now turn the upper knob (station selector) until a suitable program is located. To obtain best possible reproduction, turn the *Station Selector Knob* carefully to the *exact point* where the station is loudest. Then re-adjust the volume to suit your taste by means of the volume control. *Never* reduce the volume by "detuning" the station selector, that is, turning it away from the best point — as this will spoil the tone.

The figures on the dial, with a "zero" added, represent the station frequencies as given on newspaper radio pages. For example, a station listed as 760 kilocycles will come in at 76 on the dial. A number of stations and their frequencies are listed on the last page of this folder.

SENSITIVITY CONTROL—The small fibre hex-head screw, located at the lower right corner of the chassis (facing rear) is the Sensitivity Control. When once regulated as described below, it should not be changed unless the receiver is to be used on a different antenna, or the type "77" tube under the metal shield is replaced.

To set this control, turn the station selector to a point between 80 and 100 on the dial, then with a screw driver turn the hex screw to the right (clockwise) until a "hissing" is heard between stations, or a squealing sound as stations are tuned in and out. Now turn the screw the opposite way until the hissing sound stops, and continue turning about a quarter of a turn further. Then tune in various stations on different sections of the dial to make sure the squealing is eliminated.

POLICE STATIONS—Police Stations may be received at points about 150 on the dial. Turn the Station Selector very slowly when tuning in these stations.

A partial list of Police Stations will be found on the last page of this folder.

SERVICE—Complete radio satisfaction requires that your receiver be checked by an expert radio serviceman at least once every six months.

Experts, trained by Philco, are available in your neighborhood. These men are members of **RADIO MANUFACTURERS' SERVICE** (a Philco Service Plan) and they have all the necessary test equipment to properly adjust or service your Philco.

Should you or your friends require efficient, dependable radio service — call a member of **RADIO MANUFACTURERS' SERVICE**.

This Emblem is Your Guarantee



of Honest Competent Radio Service

STANDARD WARRANTY

We warrant each new Radio Receiver and Speaker manufactured by us to be free from defects in material and workmanship under normal use and service, our obligation under this warranty being limited to making good at our factory or factory depots any part or parts thereof which shall, within ninety (90) days after delivery of such Receiver to the original purchaser, be returned to us with transportation charges prepaid, and which our examination shall disclose to our satisfaction to have been thus defective; this warranty being expressly in lieu of all other warranties expressed or implied, and of all other obligations or liabilities on our part, we neither assume nor authorize any representative or other person to assume for us any other liability in connection with the sale of our Receivers or Speakers.

This warranty shall not apply to any Receiver or Speaker which shall have been repaired or altered outside of our factory or factory depots 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 or Speaker which has been connected otherwise than in accordance with the instructions furnished by us.