INSTRUCTIONS FOR

PHILCO 37-61

A MUSICAL INSTRUMENT OF QUALITY

★

AMERICAN AND FOREIGN BROADCAST RECEIVER

For Your Convenience

RADIO PROGRAM GUIDES

A New PHILCO *Service*

Recommended radio program guides are issued—for free distribution—by the Radio Institute of the Audible Arts, which was founded by PHILCO "to stimulate a wider and more active appreciation of good radio programs among the American people."

Your PHILCO dealer will be glad to secure for you these valuable guides to the "best on the air."

DESCRIPTION

Philco Model 37-61 is a superheterodyne radio receiver using the new Philco High-Efficiency self-centering glass tubes. It is designed to receive standard American broadcasts, and American and Foreign short-wave broadcasts from 5.7 to 18.0 megacycles (5,700 to 18,000 kilocycles). Amateur and Ship stations receivable in daytime, and some Police Calls, are also available.

To get the full performance that is built into this receiver by Philco, please read and follow these instructions as carefully as possible.

INSTALLATION

Aerial and Ground

To enable you to get the full performance your set was designed to give, Philco engineers have perfected a scientifically designed aerial known as the Philco High-Efficiency Aerial. This aerial gives equal high-efficiency response on both the tuning ranges (wave bands) of this receiver.

Furthermore, Model 37-61 has built into it the Philco Foreign Tuning System, which means that regardless of whether the Tuning Range Selector on the radio is turned to receive standard or short waves, the aerial and receiver are always automatically tuned together for maximum efficiency. This Tuning System is effective only when the Philco High-Efficiency Aerial is used.

Another feature of the Philco High-Efficiency Aerial is that it greatly reduces noise caused by electrical appliances and equipment in the vicinity. The noise-reduction feature is also equally effective on both tuning ranges.

A terminal panel (See Fig. 1) is provided at the rear of the chassis for connecting the aerial. This panel contains four screw terminals, two of which (Nos. 3 and 4) are connected by a metal strap when the set is shipped. When using the Philco High-Efficiency Aerial, connect the red and black terminals of the aerial transmission line (lead-in) to terminals 1 and 2 respectively.

If you use a temporary aerial and ground, shift the strap to rest across 2 and 3 and connect your aerial and ground to terminals 1 and 3 respectively.

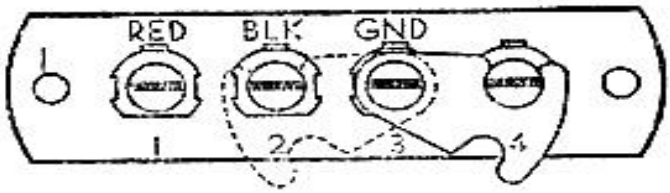

Fig. 1

A good ground connection is desirable in all installations—with the Philco High-Efficiency Aerial, a ground lead and ground clamp are provided. Make the ground connection from the nearest water or radiator pipe to terminal 3 on the terminal panel (Fig. 1).

Other Preliminaries

Locate the radio at a suitable place in the room, with due consideration to convenience of operation, appearance, tone, and handy connection to the aerial and an electric supply outlet. For best tone, the back of the set should be a short distance from the wall.

Remove all cardboard packing material, packing tags, etc., from the chassis. Place the knobs (furnished in the envelope with these instructions) on the control shafts. (See Fig. 2 for correct locations of knobs.) The flat portion of the knob-hole must be next to the flat portion of the shaft. Push the knobs on to within about $\frac{1}{8}$ inch of the face of the panel (except the small "slow speed" knob which goes on the outer end of the Station Selector shaft).

Insert the electric plug into the nearest electric supply outlet. Be sure your power supply is of the correct voltage and frequency (cycles), as specified on the receiver name label inside of the cabinet.

OPERATING

Study the illustration (Fig. 2) carefully before operating. Turn the "On-Off Switch and Tone Control" one step or notch to the right (clockwise). This turns on the receiver and illuminates the dial. In a few moments the tubes will be sufficiently heated and the set ready to operate. Turn the Volume Control knob clockwise about half its range.

Standard Broadcasts

Turn the Tuning Range Selector to the left position (counter-clockwise) (Standard American band), and tune in a suitable station or desired program by turning the Station Selector. The figures on the standard broadcast scale are "kilocycles" (KC), as given in most station lists. For example: WJZ is tuned in at 760; WCAU at 1170. After selecting the station, tune it in accurately, then adjust the volume control to suit your taste. Do NOT reduce volume by turning the "Station Selector" away from the station, as this will impair the tone. Always use the Volume Control knob to reduce or increase volume.

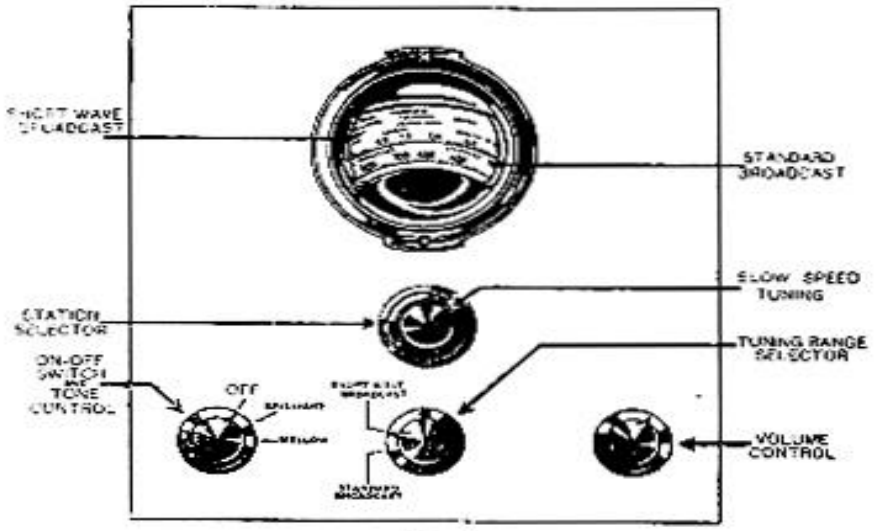

Fig. 2

Police Calls

Police stations within range may be tuned in above 1600 on the Standard Broadcast scale. These will be received best after dark. Use the slow-speed knob when tuning in these stations.

Short-Wave Broadcast Stations

Turn the Tuning Range Selector to the right (clockwise) position. Advance the Volume Control about half way.

The best place on the dial to tune will depend on the time of day (or night); this is due to the nature of short-wave signals. The major short-wave stations are mostly grouped together at certain sections of the dial; these sections are plainly marked on the dial itself. The locations of the larger and more easily received stations are also printed on the dial, different colors being used to facilitate reading of the dial.

The following table should guide you as to the best sections of the dial to tune at various times during the 24 hours.

FORENOON—17.7-18.0; 15.0-15.5; 11.7-12.0.
AFTERNOON—11.7-12.0; 9.5-10.8.
EVENING—9.5-10.8; 5.8-6.8.

Tune very slowly across the proper one of these sections of the dial, using the slow-speed (small center) knob to get fine tuning. When you locate a signal, tune it in carefully and adjust the volume as necessary.

The "Station List" included with these instructions will help you identify the various short-wave stations, by the dial number on which they are received. Many foreign stations also

announce in English at intervals, giving their call letters and location. Further information on Short-Wave Stations is available in various radio magazines and periodicals and the radio page of your local newspaper.

Ship and Amateur Stations

These short-wave stations are also received with the Tuning Range Selector turned to the right (clockwise).

SHIPS may be received at several points as indicated on the dial.

AMATEURS may be received during the day between 14.0 and 14.3. These are non-commercial (privately owned and operated) stations used for experimental or personal communication purposes.

The back page of the Philco Station List gives further information about the above types of transmission.

Tone Control

There are two positions of the Tone Control knob, "Brilliant" and "Mellow." When the set is turned "on," the Tone Control is automatically placed in the "Brilliant" position. This position is desirable for receiving standard broadcasts (speech or music). The other position (mellow) is obtained by turning the "On-Off Switch and Tone Control" one step further to the right. This position is advised when tuning short-wave or distant stations, where a reduction of background noise is desirable.

SERVICE

For the convenience of all radio owners, Philco has developed a plan for prompt, efficient radio service in every locality. This plan is known as "Radio Manufacturers Service." There is a member in your neighborhood—his shop or store can be identified by the emblem shown here. To make sure of guaranteed work, genuine Philco tubes and parts, and standard prices—call a member of Radio Manufacturers Service.

Look for this Emblem in your Neighborhood

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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, and 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.

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PHILCO RADIO STATION LIST

STANDARD AMERICAN BROADCAST STATIONS

This list includes the major North American standard broadcast band stations. We have listed stations in all sections of the country so that regardless of the location of the listener he will find many of these stations within range.

KC.	STATION	LOCATION
540	CJRM	Moose Jaw, Sask.
550	KFYR	Bismarck, N. D.
	KOAC	Corvallis, Ore.
	KTSA	San Antonio, Texas
	WGR	Buffalo, N. Y.
	WKRC	Cincinnati, Ohio
560	KLZ	Denver, Colo.
	KWTO	Springfield, Mo.
	WFIL	Philadelphia, Pa.
	WIND	Gary, Ind.
	WQAM	Miami, Fla.
570	KMTR	Los Angeles, Calif.
	KVI	Tacoma, Wash.
	WNAX	Yankton, S. D.
	WOSU	Columbus, Ohio
	WWNC	Asheville, N. C.
580	KSAC	Manhattan, Kans.
	WIBW	Topeka, Kans.
	WTAG	Worcester, Mass.
590	KHQ	Spokane, Wash.
	WEEI	Boston, Mass.
	WKZO	Kalamazoo, Mich.
	WOW	Omaha, Neb.
600	KFSD	San Diego, Calif.
	WREC	Memphis, Tenn.
	WCAO	Baltimore, Md.
610	KFRC	San Francisco, Calif.
	WDAF	Kansas City, Mo.
	WIP	Philadelphia, Pa.
620	KGW	Portland, Ore.
	KTAR	Phoenix, Ariz.
	WFLA	Clearwater, Fla.
	WTMJ	Milwaukee, Wis.
630	KFRU	Columbia, Mo.
	WOS	Jefferson City, Mo.
640	KFI	Los Angeles, Calif.
	WOI	Ames, Iowa
650	WSM	Nashville, Tenn.
660	WEAF	New York, N. Y.
670	WMAQ	Chicago, Ill.
680	KFEQ	St. Joseph, Mo.
	KPO	San Francisco, Calif.
	WPTF	Raleigh, N. C.
690	CFRB	Toronto, Ont.
700	WLW	Cincinnati, Ohio
710	WOR	Newark, N. J.
720	WGN	Chicago, Ill.
730	CKAC	Montreal, Que.
740	KMMJ	Clay Center, Neb.
	WSB	Atlanta, Ga.
750	WJR	Detroit, Mich.
760	WEW	St. Louis, Mo.
	WJZ	New York, N. Y.
770	KFAB	Lincoln, Neb.
	WBBM	Chicago, Ill.
780	KGHL	Billings, Mont.
	KFDY	Brookings, S. D.
	WEAN	Providence, R. I.
	WMC	Memphis, Tenn.
790	KGO	San Francisco, Calif.
	WGY	Schenectady, N. Y.
800	WBAP	Fort Worth, Texas.
	WFAA	Dallas, Texas
810	WCCO	Minneapolis, Minn.
	WNYC	New York, N. Y.
820	WHAS	Louisville, Ky.
830	KOA	Denver, Colo.
	WHDH	Boston, Mass.
	WRUF	Gainesville, Fla.
	WEEU	Reading, Pa.
840	CFQC	Saskatoon, Sask.
	CRCT	Toronto, Ont.
850	WESG	Elmira, N. Y.
	WWL	New Orleans, La.
860	WABC	New York, N. Y.
	WHB	Kansas City, Mo.
870	WENR	Chicago, Ill.
	WLS	Chicago, Ill.
880	CRCO	Ottawa, Ont.
	KLX	Oakland, Calif.
890	KFPY	Spokane, Wash.
	WJAR	Providence, R. I.
	XEW	Mexico City, Mex.
900	KHJ	Los Angeles, Calif.
	WBEN	Buffalo, N. Y.
	WJAX	Jacksonville, Fla.
	WKY	Oklahoma City, Okla.
	WLBL	Stevens Point, Wis.
910	CRCM	Montreal, Que.
	XEMT	Nuevo Laredo, Mex.
920	HHK	Port au Prince, Haiti
	KOMO	Seattle, Wash.
	KPRC	Houston, Texas
	WWJ	Detroit, Mich.
930	CHNS	Halifax, N. S.
	KROW	Oakland, Calif.
	WBRC	Birmingham, Ala.
	WDBJ	Roanoke, Va.
940	KOIN	Portland, Ore.
	WAVE	Louisville, Ky.
	WCSH	Portland, Maine
	WDAY	Fargo, N. D.
	WHA	Madison, Wis.
	XEFO	Mexico City, Mex.
950	KFWB	Hollywood, Calif.
	KMBC	Kansas City, Mo.
	WRC	Washington, D. C.
960	CKY	Winnipeg, Man.
	XEAW	Mexico City, Mex.
970	KJR	Seattle, Wash.
	WCFL	Chicago, Ill.
980	KDKA	Pittsburgh, Pa.
990	WBZ	E. Springfield, Mass.
	WBZA	Boston, Mass.
1000	WHO	Des Moines, Iowa
1010	KQW	San Jose, Calif.
	WHN	New York, N. Y.
	WNOX	Knoxville, Tenn.
1020	KYW	Philadelphia, Pa.
1030	CFCN	Calgary, Alta.
	CKLW	Windsor, Ont.
	XEB	Mexico City, Mex.
1040	KRLD	Dallas, Texas
	WKAR	E. Lansing, Mich.
	WTIC	Hartford, Conn.
1050	KFBI	Abilene, Kans.
	KNX	Los Angeles, Calif.
1060	KTHS	Hot Springs, Ark.
	WBAL	Baltimore, Md.
	WJAG	Norfolk, Neb.
1070	WTAM	Cleveland, Ohio
1080	WBT	Charlotte, N. C.
	WCBD	Waukegan, Ill.
	WMBI	Chicago, Ill.
1090	KMOX	St. Louis, Mo.
1100	CRCV	Vancouver, B. C.
	KWKH	Shreveport, La.
	WLWL	New York, N. Y.
	WPG	Atlantic City, N. J.
1110	KSOO	Sioux Falls, S. D.
	WRVA	Richmond, Va.
	XELO	Mexico City, Mex.
1120	CKOC	Hamilton, Ont.
	KFSG	Los Angeles, Calif.
	KRKD	Los Angeles, Calif.
	WCOP	Boston, Mass.
1130	KSL	Salt Lake City, Utah
	WJJD	Mooseheart, Ill.
	WOV	New York, N. Y.
1140	KVOO	Tulsa, Okla.
	WAPI	Birmingham, Ala.
1150	WHAM	Rochester, N. Y.
1160	WOWO	Fort Wayne, Ind.
	WWVA	Wheeling, W. Va.
1170	WCAU	Philadelphia, Pa.
1180	KEX	Portland, Ore.
	KOB	Albuquerque, N. M.
	WDGY	Minneapolis, Minn.
	WINS	New York, N. Y.
	WMAZ	Macon, Ga.
1190	WOAI	San Antonio, Texas
	WSAZ	Huntington, W. Va.
1200	.....	Stations variously located
1210	.....	Stations variously located
1220	KFKU	Lawrence, Kans.
	KTW	Seattle, Wash.
	KWSC	Pullman, Wash.
	WCAE	Pittsburgh, Pa.
	WDAE	Tampa, Fla.
	WREN	Lawrence, Kans.
1230	KYA	San Francisco, Calif.
	WFBM	Indianapolis, Ind.
	WNAC	Boston, Mass.
1240	CJCB	Sydney, N. S.
	KTAT	Fort Worth, Texas
	WKAQ	San Juan, Porto Rico
	WXYZ	Detroit, Mich.
1250	KFOX	Long Beach, Calif.
	WCAL	Northfield, Minn.
	WDSU	New Orleans, La.
	WLB	Minneapolis, Minn.
	WNEW	Newark, N. J.
	WTCN	Minneapolis, Minn.
1260	KOIL	Council Bluffs, Iowa
	KUOA	Fayetteville, Ark.
	WHIO	Dayton, Ohio
	WNBX	Springfield, Vt.
	WTOC	Savannah, Ga.
1270	KOL	Seattle, Wash.
	KVOR	Colorado Springs, Colo.
	WJDX	Jackson, Miss.
1280	WCAM	Camden, N. J.
	WDOD	Chattanooga, Tenn.
	WIBA	Madison, Wis.
1290	KDYL	Salt Lake City, Utah
	KTRH	Houston, Texas
	WEBC	Superior, Wis.
	WJAS	Pittsburgh, Pa.
1300	KFAC	Los Angeles, Calif.
	KFH	Wichita, Kans.
	WIOD	Miami Beach, Fla.
1310	.....	Stations variously located
1320	WADC	Akron, Ohio
	WSMB	New Orleans, La.
	WORK	York, Pa.
1330	KGB	San Diego, Calif.
	KSCJ	Sioux City, Iowa
	WDRC	Hartford, Conn.
	WSAI	Cincinnati, Ohio
	WTAQ	Eau Claire, Wis.
1340	KGIR	Butte, Mont.
	WSPD	Toledo, Ohio
1350	KIDO	Boise, Idaho
	KWK	St. Louis, Mo.
1360	KGER	Long Beach, Calif.
	WFBL	Syracuse, N. Y.
1370	.....	Stations variously located
1380	WKBH	La Crosse, Wis.
1390	KLRA	Little Rock, Ark.
	WHK	Cleveland, Ohio
1400	KLO	Ogden, Utah
1410	KGNC	Amarillo, Texas
	WAAB	Boston, Mass.
1420	.....	Stations variously located
1430	KECA	Los Angeles, Calif.
	KGNF	North Platte, Neb.
1440	KXYZ	Houston, Texas
1450	KTBS	Shreveport, La.
1460	KSTP	St. Paul, Minn.
	WJSV	Mt. Vernon Hills, Va.
1470	WLAC	Nashville, Tenn.
1480	KOMA	Oklahoma City, Okla.
	WKBW	Buffalo, N. Y.
1490	KFBK	Sacramento, Calif.
	WCKY	Covington, Ky.
1500	.....	Stations variously located

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PHILCO RADIO STATION LIST

SHORT-WAVE BROADCAST STATIONS of the WORLD

All the stations in this list broadcast radio programs and are active at the present time. No code transmitters or radio telephone stations used only for sending paid messages are listed, since the latter are receivable only with special apparatus. A large majority of all the active short-wave stations in operation today are contained in this list. Stations in bold face type are those most frequently and easily received.

Dial	STATION	LOCATION
4.27	RV15	Khabarovsk, U.S.S.R.
4.60	HC2ET	Guayaquil, Ecuador
4.79	VE9BK	Vancouver, B. C.
5.14	PMY	Bandoeng, Java
5.52	TI5HH	San Romain, Costa Rica
5.72	YV1ORSC	San Cristobal, Ven.
5.77	HJ4ABD	Medellin, Colombia
5.79	OAX4D	Lima, Peru
5.80	YV2RC	Caracas, Venezuela
5.82	TIGPH	San Jose, Costa Rica
5.85	YV5RMO	Maracaibo, Venezuela
5.86	HI1J	San Pedro de Macoris, R. D.
5.87	HRN	Tegucigalpa, Honduras
5.89	HCK	Quito, Ecuador
5.91	HH2S	Port au Prince, Haiti
5.93	HJ1ABE	Medellin, Colombia
5.94	TG2X	Guatemala City, Guat.
5.95	YNLF	Managua, Nicaragua
5.97	HJ2ABC	Cucuta, Colombia
	HVJ	Vatican City, Italy
	HIX	Santo Domingo, R. D.
5.98	XEVI	Mexico City, Mexico
	HJ2ABD	Bucaramanga, Col.
	XEBT	Mexico City, Mexico
6.00	RV59	Moscow, U.S.S.R.
	VE9DR	Drummondville, Can.
	HJ1ABJ	Santa Marta, Colombia
	HJ1ABC	Quibdo, Colombia
6.01	COCQ	Havana, Cuba
	HJ3ABH	Bogota, Colombia
6.02	DJC	Berlin, Germany
	XEUW	Vera Cruz, Mexico
6.03	VE9CA	Calgary, Canada
	HP5G	Panama City, Panama
	W1XAL	Boston, Mass.
6.04	PRA8	Pernambuco, Brazil
	W4XB	Miami Beach, Fla.
	HJ1ABG	Barranquilla, Col.
6.05	GSA	London, England
	HJ3ABD	Bogota, Col.
	W3XAU	Philadelphia, Pa.
6.06	W8XAL	Cincinnati, Ohio
	OXY	Skamlebaek, Denmark
	ZHI	Singapore, S. S.
	VQ7LO	Nairobi, Africa
6.07	OER2	Vienna, Austria
	VE9CS	Vancouver, B. C.
	CP5	La Paz, Bolivia
	ZHJ	Penang, S. S.
6.08	HP5F	Colon, Panama
	DJM	Berlin, Germany
	W9XAA	Chicago, Ill.
6.09	CRCX	Bowmanville, Canada
	ZTJ	Johannesburg, Africa
6.10	W9XF	Chicago, Ill.
	W3XAL	Bound Brook, N. J.
	HJ4ABL	Manizales, Colombia

Dial	STATION	LOCATION
	VUC	Calcutta, India
6.11	CHNX	Halifax, N. S.
	GSL	London, England
	HJ1ABE	Cartagena, Colombia
	YDA5	Bandoeng, Java
6.12	XEFT	Vera Cruz, Mexico
	W2XE	New York, N. Y.
	COCD	Havana, Cuba
6.13	ZGE	Kuala Lumpur, S. S.
6.14	W8XK	Pittsburgh, Penna.
	CJRO	Winnipeg, Canada
6.15	COKG	Santiago, Cuba
	YV3RC	Caracas, Venezuela
6.17	HJ3ABF	Bogota, Colombia
	HJ2ABA	Tunja, Colombia
6.19	HI1A	Dominican Republic
6.23	OAX1G	Lima, Peru
6.30	YV12RM	Maracay, Venezuela
6.31	HIZ	Santo Domingo, R. D.
6.36	HRPI	San Pedro Sula, Hon.
6.37	YV4RC	Caracas, Venezuela
6.41	TIPG	San Jose, Costa Rica
6.42	W8XBS	Chicago, Ill.
6.45	HJ1ABB	Barranquilla, Colombia
	HJ4ABC	Ibague, Colombia
6.50	HIL	Santo Domingo, R. D.
	HI4B	Santo Domingo, R. D.
6.52	YV5RV	Valencia, Venezuela
6.55	TIRCC	San Jose, Costa Rica
6.62	PRADO	Riobamba, Ecuador
6.63	HIT	Trujillo, R. D.
6.65	HC2RL	Guayaquil, Ecuador
6.67	ZP10	Asuncion, Paraguay
	YVQ	Maracay, Venezuela
6.71	TIEP	San Jose, Costa Rica
6.73	JVT	Tokio, Japan
6.81	HIH	Dominican Republic
6.99	HI3C	Dominican Republic
7.03	VP3MR	Georgetown, B. G.
7.17	CR6AA	Lobito, Africa
7.28	HJ1ABD	Cartagena, Colombia
7.38	XECR	Mexico City, Mexico
7.55	TI6WS	Puntarenas, C. R.
7.80	HBP	Geneva, Switzerland
7.85	HC2JSB	Guayaquil, Ecuador
8.66	CO9JQ	Camaguey, Cuba
8.75	ZBW	Hong Kong, China
8.90	HCJB	Quito, Ecuador
9.12	HAT4	Budapest, Hungary
9.42	COCH	Havana, Cuba
9.50	PRF5	Rio de Janeiro, Brazil
9.51	VK3ME	Melbourne, Australia
	GSB	London, England
9.53	W2XAF	Schenectady, N. Y.
	DJN	Berlin, Germany
9.54	LKJ1	Jeloy, Norway
9.56	DJA	Berlin, Germany
9.57	W1XK	Boston, Mass.
	VUB	Bombay, India

Dial	STATION	LOCATION
9.58	VK3LR	Melbourne, Australia
	GSC	London, England
	W3XAU	Philadelphia, Pa.
9.59	VK2ME	Sydney, Australia
	HP5J	Panama City, Panama
	HBL	Geneva, Switzerland
9.64	2RO	Rome, Italy
9.65	CT1AA	Lisbon, Portugal
9.67	EAQ	Madrid, Spain
10.33	ORK	Brussels, Belgium
10.35	LSX	BuenosAires, Argentina
10.66	JVN	Tokio, Japan
10.67	CEC	Santiago, Chile
10.74	JVM	Tokio, Japan
11.00	PLP	Bandoeng, Java
11.72	FYA	Paris, France
	CJRX	Winnipeg, Canada
	PHI	Hilversum, Holland
11.75	GSD	London, England
11.77	DJD	Berlin, Germany
11.79	W1XAL	Boston, Mass.
11.81	2RO	Rome, Italy
11.82	GSN	London, England
11.83	W2XE	New York, N. Y.
11.86	GSE	London, England
11.87	W8XK	Pittsburgh, Pa.
11.88	FYA	Paris, France
12.00	RNE	Moscow, U. S. S. R.
12.23	TFJ	Iceland
13.07	VPD	Suva, Fiji Islands
13.63	SPW	Warsaw, Poland
15.12	HVJ	Vatican City, Italy
15.14	GSF	London, England
15.20	DJB	Berlin, Germany
15.21	W8XK	Pittsburgh, Pa.
15.22	PCJ	Eindhoven, Holland
15.25	FYA	Paris, France
15.26	GSI	London, England
15.27	W2XE	New York, N. Y.
15.28	DJQ	Berlin, Germany
15.31	GSP	London, England
15.33	W2XAD	Schenectady, N. Y.
15.37	HAS3	Budapest, Hungary
15.62	JVF	Tokio, Japan
17.76	DJE	Berlin, Germany
	W2XE	New York, N. Y.
17.77	PHI	Hilversum, Holland
17.78	W3XAL	Bound Brook, N. J.
17.79	GSG	London, England
21.46	W1XAL	Boston, Mass.
21.47	GSH	London, England
21.52	W2XE	New York, N. Y.
21.53	GSJ	London, England
21.54	W8XK	Pittsburgh, Pa.

Short-Wave Stations That Rebroadcast Standard Programs

Many of the popular network broadcasts are simultaneously rebroadcast or "relayed" on one of the powerful short-wave stations. This is helpful to listeners in localities where atmospheric or geographical conditions interfere with reception on the standard broadcast band.

Below is a list of the "key" stations of the several standard broadcast networks, with the corresponding short-wave stations which rebroadcast their programs.

UNITED STATES

Standard Station	Short-Wave Relay Stations	
Call Letters	Call Letters	Frequency (Megacycles)
WLW	W8XAL	6.06
WJZ	W3XAL	6.10 17.78
WGY	W2XAF	9.53
	W2XAD	15.33
WABC	W2XE	6.12 11.83 15.27 21.52
WENR	W9XF	6.10
WCFL	W9XAA	6.08

UNITED STATES—Continued

Standard Station	Short-Wave Relay Stations	
Call Letters	Call Letters	Frequency (Megacycles)
KDKA	W8XK	6.14 11.87 15.21 21.54
WBZ	W1XK	9.57
WCAU	W3XAU	6.06 9.59

CANADA

Standard Station		Short-Wave Relay Stations	
Call Letters	Frequency (Kilocycles)	Call Letters	Frequency (Megacycles)
CHNS Halifax	930	CHNX	6.11
CFCN Calgary	1030	VE9CA	6.03
CRCV Vancouver	1100	VE9CS	6.07
CJRC Winnipeg	1300	CJRO	6.14
		CJRX	11.72
Canadian Network		CRCX	6.09

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