

# Silvertone



## World Wide

# Radio Log

Foreign Short Wave Stations  
American Short Wave Stations  
Standard Broadcast Stations

**10¢**

Municipal and State Police Stations  
WORLD TIME CHART  
News About Favorite Radio Artists

# American and Foreign Reception



## Big Radio Performance In Table Model Receivers

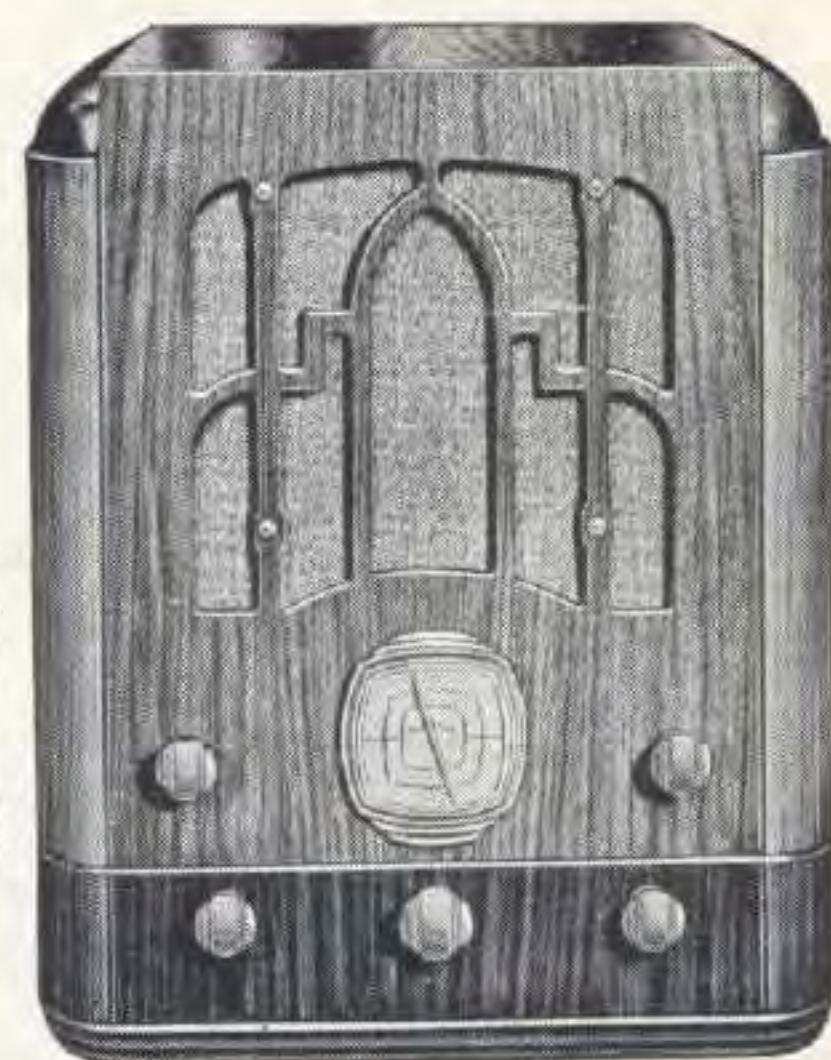
HEAR—London - Berlin - Paris - Madrid - Rome  
Caracas and Other Important Foreign Stations



Height 17 5/8 inches

**MODEL 1805—Silvertone American and Foreign Reception**

American and Foreign dual wave Receiver with an amazing knack of pulling in the distant and Foreign stations. Reproduction of tone and speech is exceptionally lifelike due to the full new design dynamic speaker. A seven tube Superheterodyne with automatic volume control, aeroplane dial and tone control at an exceptional price. Equipped with 7 fully guaranteed factory matched Silvertone tubes.



Height 17 1/2 inches

**MODEL 1806—Silvertone All-Wave American and Foreign Reception**

Get everything on the air with this all wave American and Foreign Broadcast Receiver. Tuning range 540 to 18,000 Kilocycles. Tunes in all American short wave stations as well as the Foreign short wave programs. Equipped with 8 fully guaranteed factory matched Silvertone tubes.

ANY RADIO illustrated on this page can be purchased on SEARS EASY PAYMENT PLAN.



Height 15 inches

**MODEL 1803—Silvertone American and Foreign Reception**

Low in price but high in performance is this dual wave American and Foreign broadcast moderne Gothic style table model Receiver. Has the features of big radios—automatic volume control—acropplane dial—and full dynamic speaker. Truly a world beater at the price—GETS FOREIGN PROGRAMS. Equipped with 5 fully guaranteed factory matched Silvertone tubes.



**Model 1801**—Silvertone compact personal type 5-tube Superheterodyne radio. Tunes in all American programs plus all police calls—airplane conversation and some amateurs. Tuning range 70 to 550 meters. Size 5 1/2 x 7 1/2 x 11 inches. Operates on AC or DC and 25 cycle current. Ideal for use in den—bedroom—schools—hospitals, etc. Equipped with 5 fully guaranteed factory matched Silvertone tubes.

# SILVERTONE RADIO

Sold Exclusively by SEARS, ROEBUCK AND CO.

# Sears Silvertone World Wide Radio Log

## Favorite Artists Behind the Mike



**IDA BAILEY ALLEN** . . . President of the National Radio Home Makers Club and nationally prominent home economist. In her years of broadcasting over the WABC-Columbia System, Mrs. Allen has received over half a million letters from radio fans—something in the way of the general public's approval of her selection as originator of the foremost programs offering advice to women in the home, in the recent World-Telegram radio poll.

**FRED ALLEN** . . . NBC comedian, was born in Somerville, Mass., Feb. 2, 1894, (real name John F. Sullivan). He worked in Boston Public Library as a boy. He began theatrical career as a juggler, but soon turned to comedy, becoming a vaudeville monologist under the name of Fred James. Allen fought in the war and upon his returning married present wife (Portland Hoffa). His first Broadway show was "Polly", but he rose to fame in "First Little Show" and "Three's A Crowd". He writes his own material. His eyes are blue.



**DOROTHY PAGE** . . . Comely NBC contralto, born, Dorothy Stofflett, March 4, 1910, Northampton, Pennsylvania. She is 5 feet 6 inches in height, weighs 120 pounds, has titian hair and brown eyes. Educated in music in Eastern girls schools, she first worked as artist model, posing for Red Cross posters, magazine covers. Won a Paul Whiteman audition in 1932, sang for two years with Seymour Simon's orchestra, before coming to NBC in June 1934.

**DAVID ROSS** . . . Stumbled into Radio in 1925 while visiting a local New York studio. There had been a thunderstorm and the star had failed to appear. Someone told the frenzied director that Ross was an excellent reader of poetry, so with no rehearsing he did his "stuff". The director was so impressed that he offered Ross the job of staff announcer.

In 1932 he won the Diction Medal of the American Academy of Arts and Letters. He also won the World-Telegram poll of radio editors throughout the United States as the most popular studio announcer of 1932 and 1933. He has been with CBS since it started in 1927.



**JESSICA DRAGONETTE** . . . Is one of NBC's brightest and highest paid stars.

A few years ago, when NBC was searching for a young soprano for a light opera they were assembling, Miss Dragonette was recommended for the position by a Broadway critic. She was given the audition and hired.

On the stage she has played in "The Miracle," "Grand Street Follies of 1926" and "The Student Prince". She has a lovely soprano voice, and loves to sing.

**JOE PENNER** . . . NBC comedian heard on Baker's Broadcast, was born in Hungary, November 11, 1904. His real name is Joseph Pinta. Coming to America with his mother, an opera singer, as a child, he sang in church choirs, trouped with carnivals, burlesque and in vaudeville. Introduced to big time radio by Rudy Vallee in 1933, his rise was rapid. He has popularized "Wanna Buy A Duck" and "You Nasty Mau" catch phrases used in early vaudeville appearances.



**MILTON CROSS** . . . Although a relatively young man in years, Milton J. Cross is a veteran in the world of radio announcers.

Cross went on the air in 1925, not as an announcer, but as a tenor soloist. Radio programs progressed with leaps and bounds and six months later Cross was hired as second announcer at WJZ Newark N. J. He continued to fill in as singer. Soon he became a full-fledged announcer and has continued in that capacity ever since.

His aim is to make announcing as much of an art as singing, and without a doubt he has succeeded. He takes his work very seriously. He is on the NBC Networks.

**JANE FROMAN** . . . Jane was born in St. Louis, Mo., in 1907.

She got her start in Radio when a station manager of WLW heard her in a recital in Cincinnati. She was invited to sing in a broadcast and consequently got a job out of it.

Paul Whiteman happened to hear her and was so impressed with her rich voice that he induced her to come to the NBC Chicago studio, where she made an instant hit on network programs. Since then, Jane has been in a whirl of activity. She is five feet four, has blue eyes and brown hair. She is married to Don Ross, a radio star in his own right.



**DON AMECHE** . . . Romantic hero of First Nighter and other NBC dramatic presentations, was born May 31, 1908 in Kenosha, Wisconsin. He is 5 feet 11, weighs 158 pounds, has dark brown hair and eyes. Is married to his college sweetheart, Honore. Studied law at Marquette University, Georgetown University. Left college to play stock. First radio appearance 1932 in Empire Builders. Has starred in First Nighter for more a year.

**MABEL ALBERTSON** . . . Comedienne heard with Phil Baker over an NBC network, was born in Lynn, Mass. Her mother, an actress, put her on the stage at the age of three. She later studied music and made debut in chautauqua at age of fifteen. Later she organized a school of elocution, and then was piano accompanist for a vaudeville act. Since then she has sung, appeared in talking pictures and played in New York production with Jimmy Durante. Her radio debut was in 1933. Miss Albertson—is five feet, two inches tall, weighs 105 pounds, has blond hair and complexion and blue eyes.



**PAUL WHITEMAN** . . . Heard on NBC Kraft-Phenix program, recognized "Dean of Modern Music" and America's most famed dance orchestra leader. Born, Denver, 1891. Married to Margaret Livingston, screen actress. At one time weighed more than 300 pounds, but has lost 100 pounds dieting. Has dark brown hair, wears a mustache, is six feet in height. He is equally famed for "discovering" new music and new musical talent.

**MARY LIVINGSTONE** . . . NBC comedienne who appears with her husband, Jack Benny, first met Benny when the comedian came to see her older sister. They conceived a mutual dislike for each other. Several years later they met again in Los Angeles, became friends and were engaged to marry. They married at the City Hall in Chicago. Mrs. Benny disapproved of her husband's stage career at the start. He won her over by introducing her to his act. She failed the first time and thereafter was a hit. When Benny came to radio, Mary came, too, and now is one of the featured members of his cast.



**PORTLAND HOFFA** . . . Radio actress, partner and wife of Fred Allen, was born in Portland, Oregon, for which she was named. Her father, Dr. Frederick Hoffa, eye specialist, named one daughter Lebanon, for Lebanon, Penn., another Lastone (correct) and another "Dr. Fredericka" for himself. Portland met Allen upon his return from the World War and married him, becoming his stage partner in "First Little Show" and "Three's A Crowd." She came to radio with him—to play "straight roles."

**MORTON DOWNEY** . . . After an extended career in vaudeville, musical comedy, motion-pictures and European supper clubs, Morton Downey has abandoned them for radio. In addition to his studio broadcasts, over the Columbia Network, Downey also is heard in three programs from the club Delmonico, a total of seven song recitals weekly.

Although he began singing at the age of three, Downey later tried his hand at selling photographs, newspapers and insurance and attending donkey engines before embarking on a vocal career.



# SILVERTONE TUBES IMPROVE ANY RADIO

## U. S. Broadcasting Stations Arranged Alphabetically by Cities

A	D	J	O	
<p>Aberdeen, Wash., KXRO Abilene, Kans., KFBI Akron, Ohio, WJW Albany, N. Y., WOKO Albuquerque, N. M., KOB, KGGM Alexandria, Va., WJSV Allentown, Pa., WCBA, WSN Altoona, Pa., WFBG Amarillo, Texas, KGRS, WDAG Americus, Ga., WGFC Ames, Iowa, WOI Anchorage, Alaska, KFQD Anderson, Ind., WHBU Anniston, Ala., WAMC Asbury Park, N. J., WCAP Asheville, N. C., WWNC Athens, Ga., WTFI Atlanta, Ga., WGST, WSB Atlantic City, N. J., WPG Auburn, N. Y., WMBO Augusta, Ga., WRDW Augusta, Maine, WRDO</p>	<p>Covington, Kentucky, WCKY Cumberland, Md., WTBO</p> <p style="text-align: center;">D</p> <p>Dallas, Texas, KRLD, WFAA, WRR Danville, Va., WBTM Davenport, Iowa, WOC Dayton, Ohio, WSMK Decatur, Ill., WJBL Decorah, Iowa, KGCA, KWLC Denver, Colo., KPOE, KFEL, KFXP, KLZ, KOA Des Moines, KSO, WHO Detroit, Mich., WJBK, WJR, WMBC, WWJ, WXYZ Devils Lake, N. D., KDLR Dublin, Texas, KFPL Dodge City, Kans., KGNO Dothan, Alabama, WHET</p> <p style="text-align: center;">E</p> <p>E. Lansing, Mich., WKAR E. Dubuque, Ill., WKBB Eau Claire, Wis., WTAQ El Centro, Calif., KXO Elk City, Okla., KASA Elkhart, Ind., WTRC Elmira, N. Y., WESG El Paso, Texas, KTSM, WDAH Enid, Okla., KCRS Eric, Pa., WLBW, KLEU Eugene, Ore., KORE Eureka, Calif., KIEM Evansville, Ind., WGBF Everett, Wash., KFBL</p> <p style="text-align: center;">F</p> <p>Fairmont, W. Va., WMMN Fall River, Mass., WSAR Fargo, N. D., WDAY Fayetteville, Ariz., KUOA Fergus Falls, Minn., KGDE Flint, Mich., WFDF Fond du Lac, Wis., KFIZ Fort Smith, Ark., KFPW Fort Wayne, Ind., WGL, WOWO Fort Worth, Tex., KTAT, WBAP, KFJZ Freeport, N. Y., WGBB Fresno, Calif., KMJ</p> <p style="text-align: center;">G</p> <p>Gadsden, Ala., WJBY Gainesville, Fla., WRUF Galveston, Texas, KFLX Gary, Ind., WIND Glendale, Calif., KIEV Glen Falls, N. Y., WGLC Glenside, Pa., WIBG Grand Forks, N. D., KFJM Grand Junction, Colo., KFXJ Grand Rapids, Mich., WASH, WOOD Grant City, Mo., KWTO Great Falls, Mont., KFBB Greeley, Colo., KEKA Green Bay, Wis., WHBY Greensboro, N. C., WBIG Greensburg, Pa., WRDM Greenville, Miss., WFBI Greenville, S. C., WFBC Greenville, Texas, KFPM Grove City, Pa., WSAJ</p> <p style="text-align: center;">H</p> <p>Hackensack, N. J., WBMS Hagerstown, Md., WJE Hammond, Ind., WWAE Harlingen, Texas, KRGV Harrisburg, Ill., WBOQ Harrisburg, Pa., WHP, WKBO Hartford, Conn., WDRG, WTIC Hattiesburg, Miss., WFPB Hazelton, Pa., WAZL Hilo, Hawaii, KWFV Hollywood, Calif., KFNB Honolulu, Hawaii, KGMB, KGU Hopkinsville, Ky., WAVE Hot Springs, Ark., KTHS Houston, Texas, KPRC, KTRH, KXYZ Huntington, W. Va., WSAZ Huntsville, Ala., WBHS Huron, S. D., KGDY</p> <p style="text-align: center;">I</p> <p>Idaho Falls, Idaho, KID Indianapolis, Ind., WFBM, WKFI Iowa City, Iowa, WSUI Ironwood, Mich., WJMS</p>	<p style="text-align: center;">J</p> <p>Jackson, Mich., WIBM Jackson, Miss., WJDX Jackson, Tenn., WTJS Jacksonville, Fla., WJAX Jamestown, N. Y., WOCL Janesville, Wis., WCLO Jefferson City, Mo., WOS Jerome, Ariz., KCRJ Jersey City, N. J., WAAT, WHOM Johnstown, Pa., WIAC Joplin, Mo., WMBH</p> <p style="text-align: center;">K</p> <p>Kalispell, Mont., KGEZ Kalamazoo, Mich., WKZO Kansas City, Kans., WLBF Kansas City, Mo., KWKC, KMBC, WDAF, WHB, WOQ Kearney, Nebr., KGFV Ketchikan, Alaska, KGBU Knoxville, Tenn., WNOX, WROL Kosciusko, Miss., WHEF</p> <p style="text-align: center;">L</p> <p>Laconia, N. Y., WLNH LaCrosse, Wis., WKBH La Grange, Ga., WKUJ Lamar, Colo., KIDW Lancaster, Pa., WGAL, WKJC Lansing, Mich., WJIM Lapeer, Mich., WMPC LaSalle, Ill., WJBC Las Vegas, Nev., KGIX Laurel, Miss., WAML Lawrence, Kans., KFKU, WREN Lexington, Mass., WLEY Lincoln, Nebr., KFAB, KFOR Little Rock, Ark., KLRA, KARK, KCHI Long Beach, Calif., KFOX, KGER Los Angeles, Calif., KHJ, KFSG, KTM, KECA, KFAC, KFI, KRKD, KNX, KGFJ, KFVD Louisville, Ky., WHAS, WLAP Lowell, Ariz., KSUN Lubbock, Texas, KFYO Ludington, Mich., WKBZ Lynchburg, Va., WLVA</p> <p style="text-align: center;">M</p> <p>Macon, Ga., WMAZ Madison, Wis., WHA, WIBA Manchester, N. H., WFEA Mandan, N. D., KGCU Manhattan, Kans., KSAC Manitowoc, Wis., WOMT Marquette, Mich., WBEO Marshalltown, Iowa, KFJB Marshfield, Ore., KOOS Medford, Ore., KMED Memphis, Tenn., WHBQ, WMC, WNBR, WREC Meridian, Miss., WCOC Miami, Fla., WIOD, WMBF, WOAM Milwaukee, Wis., WISN, WTMJ Minneapolis, Minn., WCCO, WDGY, WLB, WRHM Minot, N. D., KLPM Mississippi City, Miss., WGCM Missoula, Mont., KGVO Mobile, Ala., WODX, WALA Modesto, Calif., KTRB Monroe, La., KMLB Montgomery, Ala., WSFA Moorehead, Minn., KGFK Mooseheart, Ill., WJJD Mt. Orab, Ohio, WHBD Muncie, Ind., WLBC Muscle Shoals City, Ala., WNRA</p> <p style="text-align: center;">N</p> <p>Nampa, Idaho, KFSD Nashville, Tenn., WLAC, WSM Needham, Mass., WBSO Newark, N. J., WNEW, WGCP, WOR New Bedford, Mass., WNBH Newport News, Va., WGH New Orleans, La., WWL, WDSU, WBNO, WJBO, WJBW, WSMB</p>	<p>New York, N. Y., WABC, WBNX, WBOQ, WEAF, WEVD, WFAB, WHN, WINS, WJZ, WLWL, WMCA, WNYC, WOY Norfolk, Nebr., WJAG Norfolk, Va., WTAR Norman, Okla., WNAD Northfield, Minn., WCAL, KFMX North Platte, Nebr., KGNF</p> <p style="text-align: center;">O</p> <p>Oakland, Calif., KLUF, KROW, KIX, KLS Ogden, Utah, KLO Oglethorpe University, Ga., WJTL Oklahoma City, Okla., KFXR, KGFG, KOMA, WKY Olympia, Wash., KGY Omaha, Nebr., WAAW, WOW Orlando, Fla., WDBO</p> <p style="text-align: center;">P</p> <p>Paducah, Ky., WPAD Paragould, Ark., KBTM Pasadena, Calif., KPPC Pensacola, Fla., WCOA Peoria, Ill., WMBD Petersburg, Va., WPHR Philadelphia, Pa., WCAU, WDS, WFI, WHAT, WIP, WLST, WPEN, WRAX, WTEL Phoenix, Ariz., KOY Pierre, S. D., KGFX Pittsburgh, Pa., WCAE, KOV, WJAS, KDKA, WWSW Pine Bluff, Ark., KOTN Pocatello, Idaho, KSEI Ponca City, Okla., WBBZ Portland, Maine, WCSH Portland, Ore., KGW, KALE, KXI, KWJ, KOIN, KBPS, KEX, KFJR Portsmouth, N. H., WHEB Poynette, Wis., WIBU Prescott, Ariz., KPJM Presque Isle, Me., WAGM Providence, R. I., WEAN, WJAR, WPRO Pueblo, Colo., KGHF Pullman, Wash., KWSC</p> <p style="text-align: center;">Q</p> <p>Quincy, Ill., WTAD</p> <p style="text-align: center;">R</p> <p>Racine, Wis., WRIN Raleigh, N. C., WPTF Rapid City, S. D., WCAT Reading, Penn., WEEU, WRAW Red Bank, N. J., WJBI Reno, Nev., KOH Richmond, Va., WBBL, WMBG, WRVA Roanoke, Va., WDBI, WRFX Rochester, N. Y., WHAM, WHEC Rockford, Ill., KFLV Rock Island, Ill., WHBF Rome, Ga., WRGA Royal Oak, Mich., WEXL Rutland, Vt., WSYB</p> <p style="text-align: center;">S</p> <p>Sacramento, Calif., KFBK St. Albans, Vt., WQDM St. Joseph, Mo., KFEO St. Louis, Mo., KSD, KWK, KMOX, WEW, WIL St. Paul, Minn., KSTP Salem, Oregon, KSLM Salt Lake City, Utah, KDYL, KSL San Angelo, Texas, KGKL San Antonio, Texas, KMAC, KONO, KTSR, KABC, WOAI San Bernardino, Calif., KFXM San Diego, Calif., KGB, KFSD San Francisco, Calif., KGO, KGGC, KIBS, KPO, KTAB, KYA, KFRC San Jose, Calif., KQW San Juan, P. R., WNEI, WKAQ Santa Ana, Calif., KREG Santa Barbara, Calif., KDB Saranac Lake, N. Y., WNBZ Savannah, Ga., WTOG</p>	<p>Schenectady, N. Y., WGY Scottsbluff, Nebr., KGKY Scranton, Pa., WGBI, WOAN Seattle, Wash., KJR, KOL, KOMO, KPCB, KRSC, KTW, KXA, KVL Shawnee, Okla., KGFT Sheboygan, Wis., WHBL Shenandoah, Iowa, KMA, KFNF Sheridan, Wyo., KWYO Shreveport, La., KTBS, KWEA, KRMD, KWKH Silver Haven, Pa., WNBO Sioux City, Iowa, KSCJ Sioux Falls, S. D., KSOO South Bend, Ind., WFAM, WSBT Spartanburg, S. C., WSPA Spokane, Wash., KHQ, KGA, KFIO, KFPY Springfield, Ill., WCBS, WTAX Springfield, Mass., WMAS Springfield, Mo., KGBX Springfield, Tenn., WSIX Springfield, Vt., WNBX Stauton, Va., WSWA Stevens Point, Wis., WLBL Stockton, Calif., KGDH, KWG Storrs, Conn., WCAC Sunbury, Pa., WKOK Superior, Wis., WEBC Syracuse, N. Y., WFBL, WSYU, WSYR</p> <p style="text-align: center;">T</p> <p>Tacoma, Wash., KMO, WVI Tallmadge, Ohio, WADC Tampa, Fla., WMBR, WDAE Terre Haute, Ind., WBOW Texarkana, Ark., KCMC Thomasville, Ga., WQDX Toledo, Ohio, WSPD Topeka, Kans., WIBW Trenton, N. J., WTNJ Troy, N. Y., WHAZ Tucson, Ariz., KVOA, KGAR Tulsa, Okla., KVOO Tupelo, Miss., WJEM Tupper Lake, N. Y., WHDL Tuscola, Ill., WJZ Twin Falls, Idaho, KTFI Tyler, Texas, KGRB</p> <p style="text-align: center;">U</p> <p>Urbana, Ill., WILL Utica, N. Y., WIBX</p> <p style="text-align: center;">V</p> <p>Vermillion, S. D., KUSD Vicksburg, Miss., WQBC</p> <p style="text-align: center;">W</p> <p>Waco, Texas, WACO Walla Walla, Wash., KUJ Washington, D. C., WMAL, WOL, WRC Waterbury, Conn., WATR Waterloo, Iowa, WMT Waterbury, Vt., WDEV Watertown, S. D., KWTN Wenatchee, Wash., KPO W. Lafayette, Ind., WBAA Wheeling, W. Va., WVA White Plains, N. Y., WFAS Wichita, Kans., KFH Wichita Falls, Texas, KGKO Wilkes-Barre, Pa., WBAX, WBRE Williamsport, Pa., WRAK Wilmington, Del., WDEL, WILM Wilmington, N. C., WRAM, WDNC Winston-Salem, N. C., WSJS Wolf Point, Mont., KGCX Woodside, N. Y., WWRL Worcester, Mass., WORC, WTAG</p> <p style="text-align: center;">Y</p> <p>Yakima, Wash., KIT Yanktown, S. D., WNAX York, Nebr., KGBZ York, Penn., WORK Youngstown, Ohio, WKBN Yuma, Ariz., KUMA Yuma, Colo., KGEK</p> <p style="text-align: center;">Z</p> <p>Zanesville, Ohio, WALR Zarephath, N. J., WAWZ Zion, Illinois, WCBD</p>

# New Aerial—Better Reception

For best results from your radio receiver the antenna system should be inspected regularly and replaced periodically. The amount of signal energy that is obtained from the air waves is very minute. The purpose of the antenna system is to bring this very minute energy to the radio receiver so it can be amplified for reproduction. If resistance and losses occur in transmitting it to the receiver, poor results are obtained.

The wind, rain, sun and dust work day and night to reduce the efficiency of your antenna system. Corrosion, loosening of connections, drying out of the covering for the lead-in wire, etc., are the results. All of these tend to reduce efficiency and impair the operation of your radio set.

Replace your old aerial with a new Silvertone high efficiency antenna system. The improved results will be surprising.

## Approved ALL-WAVE Aerial With Vis-O-Glow Lightning Arrester

A good outdoor antenna, properly installed, is a necessity for satisfactory all-wave reception. This approved Silvertone antenna system provides the necessary equipment and instructions. 70 ft. of 7 strand 20 gauge enameled antenna wire, 50 ft. of fine quality stranded insulated lead-in and hook-up wire, four 7½ inch stand-off insulators, two porcelain nail knobs, porcelain lead-in tube, two lead-in strips, two large clear glass insulators, insulated staples, and a genuine NON-CAPACITY (Listed by Underwriters' Laboratories) Vis-O-Glow Arrester, insuring low loss for finest reception.



In ordering  
refer to  
No. 5538

## Standard Broadcast Aerial Kit



Consists of 75 ft. aerial wire, 25-ft. lead-in and hook-up wire, lightning arrester, lead-in strip, 2 porcelain insulators, 2 nail knob insulators, 1 ground clamp, 2 screw eyes, 1 instruction sheet. For best reception we recommend No. 5538 above.

In ordering refer to No. 5537

## Genuine "Brach" Vis-O-Glow Neon Bulb Lightning Arrester

The "approved" non-capacity lightning arrester for short wave reception. Made of clear glass. Approved by Fire Underwriter's. Guaranteed against damage to radio chassis by lightning!



In ordering refer to No. 5542

If your aerial system does not need complete replacement, you can obtain any single part of it such as No. 14 enameled aerial wire—stranded aerial wire—rubber covered lead-in wire—nail knob insulators—insulators—window strips—ground clamps—lightning arresters, etc. at any Sears Retail Store.

# Silvertone Radio Storage Batteries



In ordering  
refer to  
No. 705

- Adjusted on 18 month Service Basis when used for one cycle per week.
- Delivers 120 Ampere Hours at one Ampere rate.
- 15 Heavy plates per cell.
- Screw Type Radio Terminals.
- 10½x7x8⅝ in.
- Acid-proof case with handle.

## Guaranteed 18 Months Silvertone Long Life "A" Battery

This battery is EXTRA conservatively rated in accordance with N. R. A. code ruling. Full size HEAVY plates of purest lead oxide. Genuine Port Orford cedar separators. 120 amp. hrs. is an honest rating. Any excessive rating is misleading. Shipped fully charged. Supplies an even flow of current to battery operated radio receivers.

## WLS 12 Month Battery

A light duty battery that will deliver 100 ampere hour at one-ampere rate. 13 plates per cell, black acid resisting case. Size, 9x7x9⅝ in. Fully charged.

In ordering refer to No. 503

## 50 Cents for Your Old Battery

Your old storage battery may be traded in on the purchase of either of these two new 6-volt battery. The allowance is 50 cents if the old battery is delivered to any Sears store.

## New Silvertone 2-Volt Storage Battery

- 175 Ampere Hours (conservatively rated).
- 19 plates per cell. —Screw type radio terminals.

For those who have home charging facilities, this is the economical battery to buy. Powerful, long life radio type storage battery; acid proof case. Guaranteed on a service basis to give 300 hours service with

one charging in sets using 2-volt tubes. Will not replace a six-volt storage battery. Size, 7¼x4¼x9 in. If replacing a dry type 3-volt "A" battery, ORDER THE ADAPTER LISTED BELOW.

No. 5016—Adapter, for use with above 2-volt battery in sets with voltage regulator ballast tube.

Refer to No. 5016 when ordering



In ordering  
refer to  
No. 5011

# RADIO TUBES ARE THE HEART OF YOUR RADIO

## CONVENIENT DIAL LOG

Kilo	Dial Reading	Meter	CENTRAL	EASTERN	SOUTHERN	WESTERN
550		545.1	KFDY Brookings, S. D. 500	WGR Buffalo, N. Y. 1000		KOAC Corvallis, Ore. 1000
			KFUO St. Louis, Mo. 500*	WKRC Cincinnati, Ohio 500		
			KFYR Bismarck, N. D. 1000*	WDEV Waterbury, Vt. 500		
			KSD St. Louis, Mo. 500			
560		535.4	KWTO Springfield, Mo. 500	WFI Philadelphia, Pa. 500	KFDM Beaumont, Tex. 500*	KLZ Denver, Colo. 1000
			WIND Gary, Ind. 1000	WLIT Philadelphia, Pa. 500	WQAM Miami, Fla. 1000	KTAB San Francisco, Calif. 1000
				WSVA Staunton, Va. 500	WIS Columbia, S. C. 500	
570		526.0	WNAX Yankton, S. D. 1000	WOSU Columbus, Ohio 750*	KGKO Wichita Falls, Tex. 250*	KMTR Hollywood, Calif. 500
				WKBN Youngstown, Ohio 500	WWNC Asheville, N. C. 1000	KVI Tacoma, Wash. 500
				WMCA New York City 500		
				WSYR Syracuse, N. Y. 250		
580		516.9	KSAC Manhattan, Kans. 500*	WCHS Charleston, W. Va. 750*	WDBO Orlando, Fla. 250	KMJ Fresno, Calif. 500
			WIBW Topeka, Kans. 1000	WTAG Worcester, Mass. 750		
590		508.2	WCAJ Lincoln, Nebr. 500	WEEI Boston, Mass. 1000		KHQ Spokane, Wash. 1000*
			WKZO Kalamazoo, Mich. 1000			
			WOW Omaha, Nebr. 1000			
600		499.7	WMT Waterloo, Iowa 500	WCAC Storrs, Conn. 500	WREC Memphis, Tenn. 500*	KFSD San Diego, Calif. 1000
				WCAO Baltimore, Md. 500		
610		491.5	WDAF Kansas City, Mo. 1000	WICC Bridgeport, Conn. 500		KFRC San Francisco, Calif. 1000
				WIP Philadelphia, Pa. 500		
620		483.6	WTMJ Milwaukee, Wis. 1000*	WJAY Cleveland, Ohio 500	WFLA Clearwater, Fla. 1000	KGW Portland, Ore. 1000
				WLBY Bangor, Me. 500	WSUN St. Petersburg, Fla. 1000*	KTAR Phoenix, Ariz. 500*
630		475.9	KFRU Columbia, Mo. 500	WRDM Greensburg, Pa. 250		
			WGBF Evansville, Ind. 500	WMAL Washington, D. C. 250*		
			WOS Jefferson City, Mo. 500	WPRO Providence, R. I. 250		
			KGFX Pierre, S. D. 200			
640		468.5	WOI Ames, Ia. 5000	WAIU Columbus, Ohio 500		KFI Los Angeles, Calif. 50000
650		461.3			WSM Nashville, Tenn. 50000	KPCB Seattle, Wash. 100
660		454.3	WAAW Omaha, Nebr. 500	WEAP New York City 50000		
670		447.5	WMAQ Chicago, Ill. 5000		WPTF Raleigh, N. C. 5000	KPO San Francisco, Calif. 50000
680		440.9	KFEQ St. Joseph, Mo. 2500			
690		434.5	NAA Arlington, Va. 1000	WLW Cincinnati, Ohio 50000		KMPC Beverley Hills, Calif. 500
700		428.3		WOR Newark, N. J. 5000		
710		422.3				
720		416.4	WGN Chicago, Ill. 50000	WHEB Portsmouth, N. H. 250	WSB Atlanta, Ga. 50000	KTRB Modesto, Calif. 250
740		405.2	KMMJ Clay Center, Nebr. 1000			
750		399.8	WJR Detroit, Mich. 10000	WJZ New York City 50000		KXA Seattle, Wash. 250*
760		394.5	WEW St. Louis, Mo. 1000	WBAL Baltimore, Md. 10000		
770		389.4	KFAB Lincoln, Nebr. 5000			
			WBBM Chicago, Ill. 25000	WEAN Providence, R. I. 500*	WMC Memphis, Tenn. 500*	KTM Los Angeles, Calif. 500*
780		384.4		WTAR Norfolk, Va. 500		KELW Burbank, Calif. 500
				WGY Schenectady, N. Y. 50000		KGO San Francisco, Calif. 7500
790		379.5		WTBO Cumberland, Md. 100*	WBAP Ft. Worth, Tex. 50000	
800		374.8			WFAA Dallas, Tex. 50000	
810		370.2	WCCO Minneapolis, Minn. 50000	WNYS New York City 500	WHAS Louisville, Ky. 50000	KOA Denver, Colo. 12500
820		365.6			WRUF Gainesville, Fla. 5000	
830		361.2		WEEU Reading, Pa. 1000		KIEV Glendale, Calif. 500
				WHDH Boston, Mass. 1000		
850		353.7	KWKH Shreveport, La. 10000			
			WWL New Orleans, La. 10000	WBOQ N. Y. City 50000		
860		348.6	WHB Kansas City, Mo. 500			
870		344.6	WLS, WENR Chicago, Ill. 50000	WGBI, WQAN Scranton, Pa. 250	WCOC Meridian, Miss. 500*	KFKA Greeley, Colo. 500*
880		340.7	WSUI Iowa City, Ia. 500	WPHR Petersburg, Va. 100*	KARK Little Rock, Ark. 250	KLX Oakland, Calif. 1000
					WGST Atlanta, Ga. 250*	KPOF Denver, Colo. 500
890		336.9	KFNF Shenandoah, Ia. 500*	WJAR Providence, R. I. 500		KSEI Pocatello, Idaho 250*
			KUSD Vermillion, S. D. 500	WMMN Fairmont, W. Va. 250*		
			WILL Urbana, Ill. 250*			
			WBAA W. Lafayette, Ind. 500*			
900		333.1	WLBL Stevens Point, Wis. 2000	WBEN Buffalo, N. Y. 1000	WJAX Jacksonville, Fla. 1000	KHJ Los Angeles, Calif. 1000
					WKY Okla. City, Okla. 1000	KFEL, KFXF Denver, Colo. 500
920		325.9	WAAF Chicago, Ill. 500	WBSO Boston, Mass. 500	KPRC Houston, Tex. 1000*	KOMO Seattle, Wash. 1000
			WWJ Detroit, Mich. 1000	WPEN, WRAX Phil., Pa. 250		KFWI San Francisco, Calif. 500
930		322.4	KGZB York, Nebr. 500*	WDBJ Roanoke, Va. 500	WBRC Birmingham, Ala. 500*	KROW Oakland, Calif. 500*
			WMA Shenandoah, Ia. 500*		WAVE Louisville, Ky. 1000	KOIN Portland, Ore. 1000
940		319.0	WDAY Fargo, N. D. 1000	WAAT Jersey City, N. Y. 300		KFWB Hollywood, Calif. 1000
			WHA Madison, Wis. 1000	WCSH Portland, Maine 1000*		KGHL Billings, Mont. 1000*
950		315.6	KMBC Kansas City, Mo. 1000	WRC Washington, D. C. 500		KJR Seattle, Wash. 5000
970		309.1	WCFL Chicago, Ill. 1500	WIBG Glendale, Pa. 100	WJEM Tupelo, Miss. 500	
980		305.9		KDKA Pittsburgh, Pa. 50000		KFVD Los Angeles, Calif. 250
990		302.8		WBZ Boston, Mass. 50000		KQW San Jose, Calif. 500
				WBZA Springfield, Mass. 1000		
1000		299.8	WHO, WOC Des Moines, Ia. 50000	WORK York, Pa. 1000	WNOX Knoxville, Tenn. 1000*	
1010		296.9	KGGF Coffeyville, Kans. 500*	WHN New York City 1000		
1020		293.9	KYW Chicago, Ill. 10000		KRLD Dallas, Tex. 10000	
1040		288.3	KWAR E. Lansing, Mich. 1000	WESG Elmira, N. Y. 1000	KTHS Hot Springs, Ark. 10000	
						KNX Hollywood, Calif. 25000
1050		285.5	KFBI Abilene, Kans. 5000	WTIC Hartford, Conn. 50000		KWJJ Portland, Ore. 500
1060		282.8	WJAG Norfolk, Nebr. 1000	WBAL Baltimore, Md. 10000		
				WTAM Cleveland, Ohio 50000		KJBS San Francisco, Calif. 100
1070		280.2	WDZ Tuscola, Ill. 100		WBT Charlotte, N. C. 50000	
			WCAZ Carthage, Ill. 100			
1080		277.6	WCBD Zion, Ill. 5000			
			WMBI Chicago, Ill. 5000			
1090		275.1	KMOX St. Louis, Mo. 50000			
1100		272.6		WLWL New York City 5000		KGDM Stockton, Calif. 250
				WPC Atlantic City, N. J. 5000		
1110		270.1	KSOO Sioux Falls, S. D. 1000	WRVA Richmond, Va. 5000		
1120		267.7	WHAD, WISN Milw., Wis. 250	WDEL Wilmington, Del. 250*	KTRH Houston, Tex. 1000	KFIO Spokane, Wash. 100
					WTAW College Sta., Tex. 500	KRSC Seattle, Wash. 100
						KRKD, KFSG Los Angeles, C. 500
1130		265.3	WJJD Moosheart, Ill. 20000	WOV New York City 1000	KVOO Tulsa, Okla. 25000	KSL Salt Lake City, Utah 50000
1140		263.0			WAPI Birmingham, Ala. 5000	
1150		260.7		WHAM Rochester, N. Y. 50000		
1160		258.5	WOWO Ft. Wayne, Ind. 10000	WHVA Wheeling, W. Va. 5000		
1170		256.3		WCAU Philadelphia, Pa. 50000		
1180		254.1	WDGY Minneapolis, Minn. 1000	WINS New York City 500	WMAZ Macon, Ga. 500	KEX Portland, Ore. 5000
					WOAI San Antonio, Tex. 50000	KOB Albuquerque, N. M. 1000
1190		252.0		WATR Waterbury, Conn. 100		
				WSAZ Huntington, W. Va. 1000		
1200		249.9	KFJB Marshalltown, Ia. 100*	WABI Bangor, Maine 100	KBTM Paragould, Ark. 100	KERN Bakersfield, Calif. 100
			WIL St. Louis, Mo. 100	WCAX Burlington, Vt. 100	KGHI Little Rock, Ark. 100	KGEK Yuma, Colo. 100
			KGDE Fergus Falls, Minn. 100*	WFBE Cincinnati, Ohio 100*	WJBW New Orleans, La. 100	KGJ Los Angeles, Calif. 100
			WCLO Janesville, Wis. 100	WIBX Utica, N. Y. 100*	WBBZ Ponca City, Okla. 100	KVOS Bellingham, Wash. 100
			WFAM So. Bend, Ind. 100	WKJC Lancaster, Pa. 100	WBHS Huntsville, Ala. 100	KWG Stockton, Calif. 100
			WHBY Green Bay, Wis. 100	WNBO Silver Haven, Pa. 100	WRBL Columbus, Ga. 100	WCAT Rapid City, S. D. 100
			WJBC LaSalle, Ill. 100		WBBX New Orleans, La. 100	KFXD Nampa, Idaho 100
			WJBL Decatur, Ill. 100	WHBC Canton, Ohio 100	WLVA Lynchburg, Va. 100	KFXJ Grand Jct., Col. 100
			WWAE Hammond, Ind. 100	WKBO Harrisburg, Pa. 100		KGVO Missoula, Mont. 100
						KSUN Lowell, Ariz. 100

# IT'S TIME TO HAVE YOUR TUBES TESTED

Kilo	Dial Reading	Me-ter	CENTRAL	EASTERN	SOUTHERN	WESTERN
1210	247.8		KDLR Devils Lake, N. D. 100*	WALR Zanesville, Ohio 100	KASA Elk City, Okla. 100	KFJI Klamath Falls, Ore. 1000
			KFOR Lincoln, Nebr. 100*	WBAX Wilkes-Barre, Pa. 100	KWEA Shreveport, La. 100	KFXM San Bernardino, Calif. 100
			KFPW Ft. Smith, Ark. 100	WBBL WMBG Richmond, Va. 100	WJBY Gadsden, Ala. 100	KPPC Pasadena, Calif. 50
			KFVS Cape Girardeau, Mo. 100	WGBB Freeport, N. Y. 100	WQDX Thomasville, Ga. 100	KGY Olympia, Wash. 100
			KGCR Watertown, S. D. 100	WGNV Chester, N. Y. 50	WKFI Greenville, Miss. 100	KIEM Eureka, Calif. 100
			WCBS, WTAX Springfield, Ill. 100	WJBI Red Bank, N. J. 100	WSIX Springfield, Tenn. 100	
			WCRW, WSBC, WEDC Chi. 100	WJEJ Hagerstown, Md. 100	WSOC Charlotte, N. C. 100	
			WEBQ Harrisburg, Ill. 100	WJW Akron, Ohio 100	WGCM Miss. City, Miss. 100	
			WHBF Rock Island, Ill. 100	WSEN Columbus, Ohio 100		
			WHBU Anderson, Ind. 100	WFAS White Plains, N. Y. 100		
			WIBU Poynette, Wis. 100	WKOK Sunbry, Pa. 100		
			WOMT Manitowoc, Wis. 100	WOCL Jamestown, N. Y. 100		
1220	245.6		KFKU Lawrence, Kans. 500	WCAD Canton, N. Y. 1000	WDAE Tampa, Fla. 1000	KWSC Pullman, Wash. 1000*
			WREN Lawrence, Kans. 1000	WCAE Pittsburgh, Pa. 1000		KTW Seattle, Wash. 1000
1230	243.8		WFBM Indianapolis, Ind. 1000	WNAC Boston, Mass. 1000		KGGM Albuquerque, N. M. 250*
			WSBT So. Bend, Ind. 500			KYA San Francisco, Calif. 1000
1240	241.8		KLPM Minot, N. D. 250			KTFI Twin Falls, Idaho 500
			WXYZ Detroit, Mich. 1000			
			KGCU Mandan, N. D. 250			
1250	239.9		WCAL Northfield, M. 1000	WGCP Newark, N. J. 1000	WDSU New Orleans, La. 1000	KFOX Long Beach, Calif. 1000
			WLB, WRHM Minn. 1000	WNEW Newark, N. J. 1000		KVOA Tucson, Ariz. 500
1260	238.0		KOIL Council Bluffs, Ia. 1000	WLBW Erie, Pa. 500*		KUOA Fayetteville, Ark. 1000
				WNBX Springfield, Vt. 250		
1270	236.1		KGCA, KWLC Decorah, Ia. 100	WFBR Baltimore, Md. 500		KOL Seattle, Wash. 1000
			WASH, WOOD Gr. Rap. M. 500	WCAM Camden, N. J. 500		KVOR Colo. Springs, Colo. 1000
1280	234.2		WIBA Madison, Wis. 500*	WCAP Asbury Park, N. J. 500	WDOO Chattanooga, Tenn. 1000*	KFBB Great Falls, Mont. 1000*
				WORC Worcester, Mass. 500	WRR Dallas, Texas 500	
				WTNJ Trenton, N. J. 500		
1290	232.4		WEBC Superior, Wis. 1000*	WJAS Pittsburgh, Pa. 1000*	KLCN Blytheville, Ark. 100	KDYL Salt Lake City, Utah 1000
				WNBZ Saranac Lake, N. Y. 50	KTSA San Antonio, Tex. 1000*	KFAC Los Angeles, Calif. 1000
1300	230.6		KFH Wichita, Kans. 1000	WBBR Brooklyn, N. Y. 1000	WIOD Miami, Fla. 1000	KFJR, KALE Portland, Ore. 500
				WEVD, WFAB New York City 1000	WFBC Greenville, S. C. 250*	
				WHAZ Troy, N. Y. 500		
1310	228.9		KGBX Springfield, Mo. 100	WBRE Wilkes Barre, Pa. 100	KFPL Dublin, Tex. 100	KCRJ Jerome, Ariz. 100
			WBEO Marquette, Mich. 100	WEBR Buffalo, N. Y. 100*	KFPM Greenville, Tex. 15	KFBK Sacramento, Calif. 100
			WBOW Terre Haute, Ind. 100	WFBG Altoona, Pa. 100	KFXR Okla. City, Okla. 100*	KGEZ Kalispell, Mont. 100
			WCLS Joliet, Ill. 100		KFYO Lubbock, Tex. 100*	KGCC Wolfpoint, Mont. 100*
			WEXL Royal Oak, Mich. 50	WGH Newport News, Va. 100	WDAH, KTSM El Paso, Tex. 100	KMED Medford, Ore. 100
			WFDF Flint, Mich. 100	WJAC Johnstown, Pa. 100	WROL Knoxville, Tenn. 100	KIT Yakima, Wash. 100
			WTRC Elkhart, Ind. 50*	WMBO Auburn, N. Y. 100	WSJS Winston-Salem, N. C. 100	KXRO Aberdeen, Wash. 100
			WLBC Muncie, Ind. 50	WOL Washington, D. C. 100	WTJS Jackson, Tenn. 100*	
			KGFW Kearney, Nebr. 100	WNBH New Bedford, Mass. 100	WAML Laurel, Miss. 100	
				WRAW Reading, Pa. 100	KRMD Shreveport, La. 100	
				WSAJ Grove City, Pa. 100	WSGN Birmingham, Ala. 100	
				WTEL, WHAT Phil., Pa. 100		
				WLNH Laconia, N. H. 100		
1320	227.1		KSO Des Moines, Iowa 250*	WADC Akron, Ohio 1000	WSMB New Orleans, La. 500	KID Idaho Falls, Idaho 250*
1330	225.4		KSCJ Sioux City, Ia. 1000*	WDRG Hartford, Conn. 1000		KGB San Diego, Calif. 1000
			WTAQ Eau Claire, Wis. 1000	WSAI Cincinnati, Ohio 1000	WCOA Pensacola, Fla. 500	KMO Tacoma, Wash. 250
1340	223.7		KGNO Dodge City, Kans. 250	WSPD Toledo, Ohio 1000		KFPY Spokane, Wash. 1000
			KDGY Huron, S. D. 250	WFEA Manchester, N. H. 500		
1350	222.1		KWK St. Louis, Mo. 1000	WAWZ Zarephath, N. J. 250		KIDO Boise, Idaho 1000
				WBNX New York City 250		
				WEHC Charlottesville, Va. 500		
1360	220.4		WGES Chicago, Ill. 500*	WFBL Syracuse, N. Y. 1000*	WCSC Charleston, S. C. 500	KGER Long Beach, Calif. 1000
					WQBC Vicksburg, Miss. 500	KGIR Butte, Mont. 500
1370	218.8		KFJM Grand Forks, N. D. 100	WGLC Hudson Falls, N. Y. 100	KCRC Enid, Okla. 100*	KFBL Everett, Wash. 50
			KWKC Kansas City, Kans. 100	WBTM Danville, Va. 100	KFJZ Ft. Worth, Tex. 100	KGAR Tucson, Ariz. 100*
			WGL Ft. Wayne, Ind. 100	WCBM Baltimore, Md. 100*	KGFG Okla. City, Okla. 100	KGFL Roswell, N. M. 100
			WHDF Calumet, Mich. 100*	WDAS Philadelphia, Pa. 100*	KGKL San Angelo, Tex. 100	KOOS Marshfield, Ore. 100
			WIBM Jackson, Mich. 100	WHBD Mt. Orab, Ohio 100	KMAC, KONO San Antonio 100	KRE Berkeley, Calif. 100
			WJBK Detroit, Mich. 50	WLEY Lexington, Mass. 100*	WJTL Atlanta, Ga. 100	KUJ Walla Walla, Wash. 100
			WRJN Racine, Wis. 100		WMBR Jacksonville, Fla. 100	KVL Seattle, Wash. 100
			KFGQ Boone, Iowa 100	WQDM St. Albans, Vt. 100	KLUF Galveston, Tex. 100	KICA Clovis, N. M. 100
				WRAK Williamsport, Pa. 100	WHBQ Memphis, Tenn. 100	KERN Bakersfield, Calif. 100
				WRDO Augusta, Maine 100	WHET Dothan, Ala. 100	KWYO Sheridan, Wyo. 100
				WSPV Buffalo, N. Y. 50		
				WPFH Hattiesburg, Miss. 100	WALA Mobile, Ala. 100	KOH Reno, Nev. 500
1380	217.3		WKBH LaCrosse, Wis. 1000	KQV Pittsburgh, Pa. 500		
				WSMK Dayton, Ohio 200	KLRA Little Rock, Ark. 1000	KOY Phoenix, Ariz. 500*
1390	215.7			WHK Cleveland, Ohio 1000*		KLO Ogden, Utah 500
1400	214.2		WKBH Indianapolis, Ind. 500	WBBC Brooklyn, N. Y. 500		KTUL Tulsa, Okla. 250
				WLTH Brooklyn, N. Y. 500		
				WARD, WVFV Brooklyn, N. Y. 500		
1410	212.6		WRBK Rockford, Ill. 500	WAAB Boston, Mass. 500	KGRS, WDAG Amarillo, Tex. 1000	
			WCBM Bay City, Mich. 500	WHIS Bluefield, W. Va. 250	WODX Mobile, Ala. 500	
			WHBL Sheboygan, Wis. 500	WRBX Roanoke, Va. 250	WSFA Montgomery, Ala. 500	
1420	211.1		KFIZ Fond du Lac, Wis. 100	WILM Wilmington, Del. 100	KGFF Shawnee, Okla. 100	KBPS, KXL Portland, Ore. 100
			KICK Carter Lake, Iowa 100			KGCC San Francisco, Calif. 100
			WEHS, WHFC, WKBI Cicero, Ill. 100	WAGM Presque Isle, Me. 100	WAMC Anniston, Ala. 100	KGIW Alamosa, Colo. 100
			WELL Battle Creek, Mich. 50	WHDL Spring Lake, N. Y. 100	WJBO Baton Rouge, La. 100	KGIX Las Vegas, Nev. 100
			WJMS Ironwood, Mich. 100	WMAS Springfield, Mass. 100	WPAD Paducah, Ky. 100	KORE Eugene, Ore. 100
			WLBK Kansas City, Kans. 100	WAZL Hazleton, Pa. 100	WSPA Spartanburg, S. C. 100*	KIDW Lamar, Colo. 100
			WMBC Detroit, Mich. 100*	WLEU Erie, Pa. 100	KABC San Antonio, Tex. 100	KUMA Yuma, Ariz. 100
			WMBH Joplin, Mo. 100*		WGPC Americus, Ga. 100	
					KCMC Texarkana, Ark. 100	
					WACO Waco, Tex. 100	
					WEED Greenville, N. C. 100	
					WLAP Lexington, Ky. 100	
1430	209.7		KGNF No. Platte, Nebr. 500	WBNS Columbus, Ohio 500	WNRA Muscle Shoals, Ala. 100	KECA Los Angeles, Calif. 1000
			KWCR Cedar Rapids, Ia. 250	WHEC Rochester, N. Y. 500	WNBR Memphis, Tenn. 500	
				WOKO Albany, N. Y. 500		
				WHP Harrisburg, Pa. 500*		
1440	208.2		WMBD Peoria, Ill. 500*	WCBA, WSAN Allentown, Pa. 250	WBIG Greensboro, N. C. 500*	KDFN Casper, Wyo. 500
					KXYZ Houston, Tex. 250	KLS Oakland, Calif. 250
1450	206.8			WBMS Hackensack, N. J. 250	KTBS Shreveport, La. 1000	
				WGAR Cleveland, Ohio 500*	WTFI Athens, Ga. 500	
				WHOM Jersey City, N. J. 250		
				WSAR Fall River, Mass. 250		
				WJSV Washington, D. C. 10000		
1460	205.4				WLAC Nashville, Tenn. 5000	
1470	204.0				KOMA Okla. City, Okla. 5000	
1480	202.6				WCKY Covington, Ky. 5000	
1490	201.6				KGFI Corpus Christi, Tex. 100*	KDB Santa Barbara, Calif. 100
1500	199.9		KGFK Moorhead, Minn. 100	WBNF Binghamton, N. Y. 100	KGKB Tyler, Tex. 100	KPJM Prescott, Ariz. 100
			KGKY Scottsbluff, Nebr. 100	WPEN Philadelphia, Pa. 100*	KNOW Austin, Tex. 100	KPQ Wenatchee, Wash. 100
			WKBV Richmond, Ind. 100	WSYB Rutland, Vt. 100*	WFDV Rome, Ga. 100	KREG Santa Ana, Calif. 100
			WKBZ Ludington, Mich. 100	WWRL Woodside, N. Y. 100	WHEF Kosciusko, Miss. 100*	KXO El Centro, Calif. 100
			WMPC Lapeer, Mich. 100	WWSW Pittsburgh, Pa. 100	WRDW Augusta, Ga. 100	
			WKBB East Dubuque, Ill. 100	WBMQ Brooklyn, N. Y. 100	WKEU La Grange, Ga. 100	
				WCNW Brooklyn, N. Y. 100	KOTN Hot Springs, Ark. 100	
				WMEX Chelsea, Mass. 100	WOPI Bristol, Tenn. 100	
				WGAL Lancaster, Pa. 100	WRAM Durham, N. C. 100	

\*Indicates Station Uses More Power in the Daytime

# RADIO TUBES TESTED FREE AT SEARS

## Time Throughout the World

An easy method to determine the time in all countries throughout the world corresponding to your own time. Just rule off your time across the page for your own convenience in determining the correct time in other parts of the world. Then run down to the station in which city and country it is located and you have the corresponding time. All time shown in this table is based on U. S. Standard time. M is noon. X is midnight. Light face figures are A.M. Black face figures are P.M.

Table of K. C. to Meters

MorKc	Kc of M	MorKc	Kc of M	MorKc	Kc of M
10	30000	106	2830	202.7	1480
11	27270	107	2804	204.1	1470
12	25000	108	2778	205.5	1460
13	23080	109	2752	206.9	1450
14	21430	110	2727	208.3	1440
15	20000	111	2703	209.8	1430
16	18750	112	2679	211.3	1420
17	17650	113	2655	212.8	1410
18	16670	114	2632	214.3	1400
19	15790	115	2609	215.8	1390
20	15000	116	2586	217.4	1380
21	14290	117	2564	219.0	1370
22	13540	118	2542	220.6	1360
23	13040	119	2521	222.2	1350
24	12500	120	2500	223.9	1340
25	12000	121	2479	225.6	1330
26	11540	122	2459	227.3	1320
27	11110	123	2439	229.0	1310
28	10710	124	2419	230.8	1300
29	10340	125	2400	232.6	1290
30	10000	126	2381	234.4	1280
31	9680	127	2362	236.2	1270
32	9380	128	2344	238.1	1260
33	9090	129	2326	240.0	1250
34	8820	130	2308	241.9	1240
35	8570	131	2290	243.9	1230
36	8330	132	2273	245.9	1220
37	8110	133	2256	247.9	1210
38	7890	134	2239	250.0	1200
39	7680	135	2222	252.1	1190
40	7480	136	2206	254.2	1180
41	7290	137	2190	256.4	1170
42	7110	138	2174	258.6	1160
43	6960	139	2158	260.9	1150
44	6820	140	2143	263.2	1140
45	6670	141	2128	265.5	1130
46	6520	142	2113	267.9	1120
47	6380	143	2098	270.3	1110
48	6250	144	2083	272.7	1100
49	6120	145	2069	275.2	1090
50	6000	146	2055	277.8	1080
51	5880	147	2041	280.4	1070
52	5770	148	2027	283.0	1060
53	5660	149	2013	285.7	1050
54	5560	150	2000	288.5	1040
55	5450	151	1987	291.3	1030
56	5360	152	1974	294.1	1020
57	5280	153	1961	297.0	1010
58	5170	154	1948	300.0	1000
59	5090	155	1935	303	990
60	5000	156	1923	306	980
61	4920	157	1911	309	970
62	4840	158	1899	313	960
63	4760	159	1887	316	950
64	4690	160	1875	319	940
65	4620	161	1863	323	930
66	4550	162	1852	326	920
67	4480	163	1840	330	910
68	4410	164	1829	333	900
69	4350	165	1818	337	890
70	4290	166	1807	341	880
71	4230	167	1796	345	870
72	4170	168	1786	349	860
73	4110	169	1775	353	850
74	4050	170	1765	357	840
75	4000	171	1754	361	830
76	3950	172	1744	366	820
77	3900	173	1734	370	810
78	3850	174	1724	375	800
79	3800	175	1714	380	790
80	3750	176	1705	385	780
81	3700	177	1695	390	770
82	3660	178	1685	395	760
83	3610	179	1676	400	750
84	3570	180	1667	405	740
85	3530	181	1657	411	730
86	3490	182	1648	417	720
87	3450	183	1639	423	710
88	3410	184	1630	429	700
89	3370	185	1622	435	690
90	3330	186	1613	441	680
91	3300	187	1604	448	670
92	3260	188	1595	455	660
93	3230	189	1587	462	650
94	3190	190	1579	469	640
95	3160	191	1571	476	630
96	3130	192	1563	484	620
97	3090	193	1554	492	610
98	3060	194	1546	500	600
99	3030	195	1538	509	590
100	3000	196	1531	517	580
101	2970	197	1523	526	570
102	2941	198	1515	536	560
103	2913	199	1508	545	550
104	2885	200	1500	550	545
105	2857	201.3	1490		

	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	
<b>New York, U. S. EASTERN</b>	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	U.S.A.
<b>Chicago, U. S. CENTRAL</b>	11	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	
<b>Denver, U. S. MOUNTAIN</b>	10	11	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	
<b>Seattle, U. S. PACIFIC</b>	9	10	11	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	
<b>Vienna, AUSTRIA</b>	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	
<b>Brussels, BELGIUM</b>	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	
<b>Prague, CZECHOSLOVAKIA</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Lyngby, DENMARK</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Cairo, EGYPT</b>	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	
<b>London, ENGLAND</b>	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	
<b>Paris, FRANCE</b>	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	
<b>Berlin, GERMANY</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Zeesen, GERMANY</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Huizen, HOLLAND</b>	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	
<b>Budapest, HUNGARY</b>	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	
<b>Rome, ITALY</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Oslo, NORWAY</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Poznan, POLAND</b>	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	
<b>Rabat, MOROCCO</b>	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	
<b>Leningrad, RUSSIA, U. S. S. R.</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Moscow, RUSSIA, U. S. S. R.</b>	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	
<b>Glasgow, SCOTLAND</b>	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	
<b>Bangkok, SIAM</b>	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	7	8	9	10	11	
<b>Madrid, SPAIN</b>	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	
<b>Motola, SWEDEN</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Pragins, SWITZERLAND</b>	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	
<b>Calcutta, INDIA</b>	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	7	8	9	
<b>Tokio, JAPAN</b>	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	7	8	9	10	11	M	1	
<b>Manila, PHILIPPINE IS.</b>	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	6	7	8	9	10	11	M	
<b>Leopoldville, BELG. CONGO</b>	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	2	3	4	5	
<b>Buenos Aires, ARGENTINA</b>	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	
<b>LaPaz, BOLIVIA</b>	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	
<b>Rio de Janeiro, BRAZIL</b>	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	X	1	
<b>Santiago, CHILE</b>	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	
<b>Bogota, COLOMBIA</b>	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	
<b>Quito, EQUADOR</b>	11	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	
<b>Lima, PERU</b>	X	1	2	3	4	5	6	7	8	9	10	11	M	1	2	3	4	5	6	7	8	9	10	11	
<b>Montevideo, URUGUAY</b>	1	2	3	4	5	6	7	8	9	10	11	M	1</												



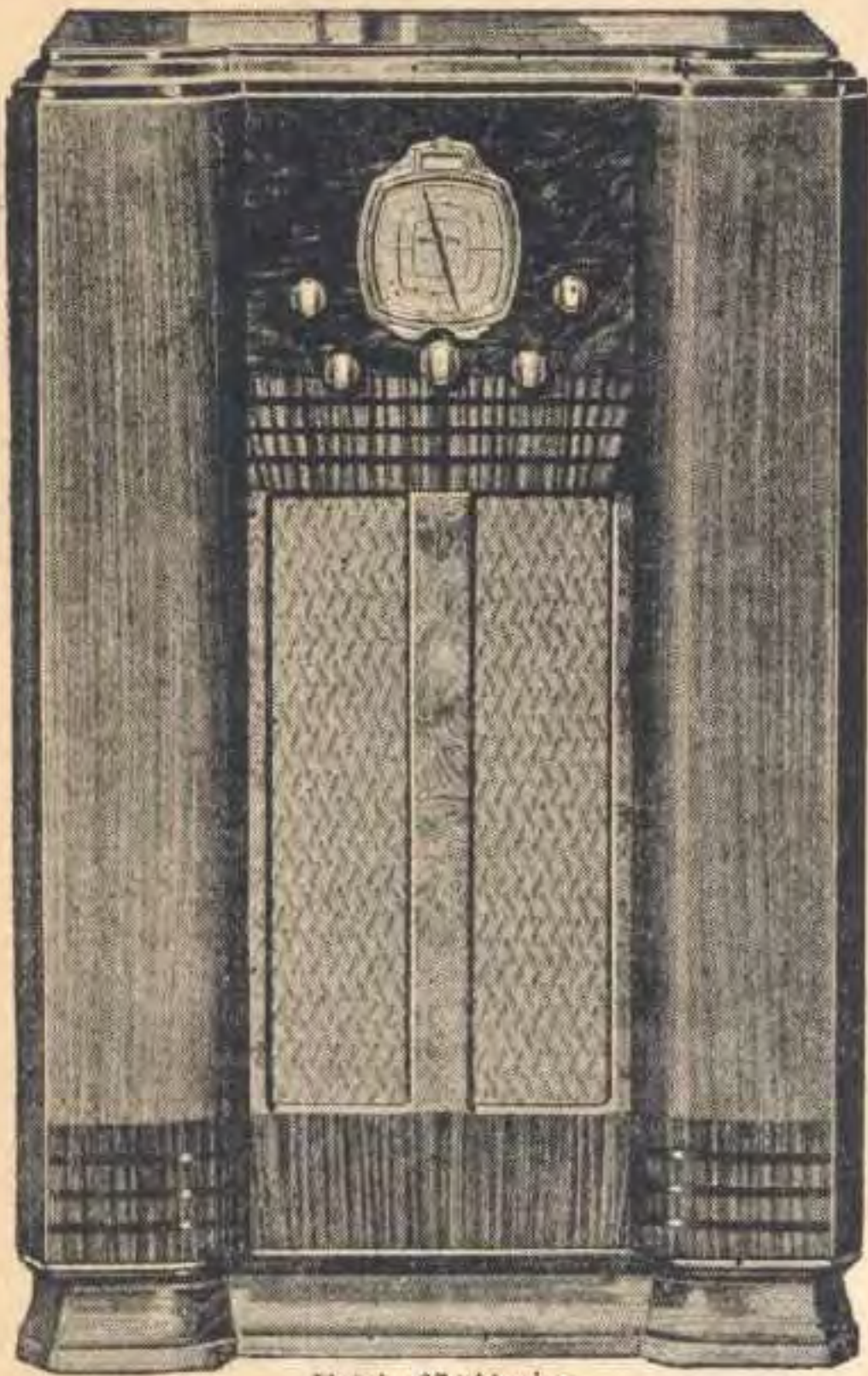
# SILVERTONE BATTERIES LAST LONGER

## U. S. Broadcasting Stations (Alphabetically by Call Letter)

CALL LETTER	Kilo-cycle	Meters	LOCATION	Power	CALL LETTER	Kilo-cycle	Meters	LOCATION	Power	CALL LETTER	Kilo-cycle	Meters	LOCATION	Power
KABC	1420	211.1	San Antonio, Texas	100	KHQ	590	508.2	Spokane, Wash.	*1000	KXRO	1310	228.9	Aberdeen, Wash.	100
KALE	1300	230.6	Portland, Ore.	500	KICA	1370	218.8	Clovis, New Mexico	100	KXYZ	1440	208.2	Houston, Tex.	250
KARK	890	336.9	Little Rock, Ark.	*250	KICK	1420	211.1	Carter Lake, Iowa	100	KYA	1230	243.8	San Francisco, Calif.	1000
KASA	1210	247.8	Elk City, Okla.	100	KID	1320	227.1	Idaho Falls, Idaho	*250	KYW	1020	293.9	Chicago, Illinois	10000
KBPC	1420	211.1	Portland, Ore.	100	KIDD	1350	222.1	Boise, Idaho	*1000	WAAB	1410	212.6	Boston, Mass.	500
KBTM	1200	249.9	Paragould, Ark.	100	KIDW	1420	211.1	Lamar, Colo.	100	WAAF	920	325.9	Chicago, Illinois	500
KCMC	1420	211.1	Texarkana, Ark.	100	KIEM	1210	247.8	Eureka, Calif.	100	WAAT	940	319.0	Jersey City, N. J.	300
KCRC	1370	218.8	Enid, Okla.	*100	KIEV	850	353.7	Glendale, Calif.	250	WAAW	660	454.3	Omaha, Nebr.	500
KCRD	1310	228.9	Jerome, Ariz.	100	KIT	1310	228.9	Yakima, Wash.	100	WABC	860	348.6	New York, N. Y.	50000
KDB	1500	199.9	Santa Barbara, Calif.	100	KJBS	1070	280.2	San Francisco, Calif.	500	WABI	1200	249.9	Bangor, Maine	100
KDFN	1440	208.2	Casper, Wyo.	500	KJR	970	309.1	Seattle, Wash.	5000	WACO	1420	211.1	Waco, Texas	100
KDKA	980	305.9	Pittsburgh, Pa.	50000	KLCN	1290	232.4	Blytheville, Ark.	100	WADC	1320	227.1	Tallmadge, Ohio	*1000
KDLR	1210	247.8	Devils Lake, N. D.	100	KLO	1400	214.2	Ogden, Utah	500	WAGM	1420	211.1	Presque Isle, Me.	100
KDYL	1290	232.4	Salt Lake City, Utah	1000	KLPM	1240	211.1	Minot, N. D.	250	WAIU	640	468.5	Columbus, Ohio	500
KECA	1430	209.7	Los Angeles, Calif.	*1000	KLRA	1390	215.7	Little Rock, Ark.	*1000	WALA	1380	217.3	Mobile, Ala.	100
KELW	780	384.4	Burbank, Calif.	500	KLS	1440	208.2	Oakland, Calif.	250	WALR	1210	247.8	Zanesville, Ohio	100
KERN	1370	218.8	Bakersfield, Calif.	100	KLUF	1370	218.8	Galveston, Texas	100	WAMC	1420	211.1	Anniston, Ala.	100
KEX	1180	254.1	Portland, Ore.	5000	KLX	880	340.7	Oakland, Calif.	1000	WAML	1310	228.9	Laurel, Miss.	100
KFAB	770	389.4	Lincoln, Nebr.	25000	KLZ	560	535.4	Denver, Colo.	*1000	WAPI	1140	263.0	Birmingham, Ala.	5000
KFAC	1300	230.6	Los Angeles, Calif.	1000	KMA	930	322.4	Shenandoah, Iowa	*1000	WARD	1400	214.2	Brooklyn, N. Y.	500
KFBB	1280	234.2	Great Falls, Mont.	*1000	KMAC	1370	218.8	San Antonio, Tex.	100	WASH	1270	236.1	Grand Rapids, Mich.	500
KFBI	1050	285.5	Abilene, Kans.	5000	KMBC	950	315.6	Kansas City, Mo.	*1000	WATR	1190	252.0	Waterbury, Conn.	100
KFBK	1310	228.9	Sacramento, Calif.	100	KMED	1310	228.9	Medford, Ore.	*100	WAVE	940	319.0	Hopkinsville, Ky.	1000
KFBL	1370	218.8	Everett, Wash.	50	KMJ	580	516.9	Fresno, Calif.	500	WAWZ	1350	222.1	Zarephath, N. J.	250
KFDM	560	535.4	Beaumont, Texas	*500	KMLB	1200	249.9	Monroe, La.	100	WAZL	1420	211.1	Hazleton, Pa.	100
KFDY	780	384.4	Brookings, S. D.	1000	KMMJ	740	405.2	Clay Center, Nebr.	1000	WBAA	890	214.2	W. Lafayette, Ind.	*500
KFEL	920	325.9	Denver, Colo.	500	KMO	1330	225.4	Tacoma, Wash.	250	WBAL	1060	282.8	Baltimore, Maryland	10000
KFEQ	680	440.9	St. Joseph, Mo.	2500	KMOX	1090	275.1	St. Louis, Mo.	50000	WBAP	800	374.8	Ft. Worth, Tex.	50000
KFGQ	1370	228.9	Boone, Iowa	100	KMPC	710	422.3	Beverly Hills, Calif.	500	WBAX	1210	247.8	Wilkes-Barre, Pa.	100
KFH	1300	230.6	Wichita, Kans.	1000	KMTR	570	526.0	Los Angeles, Calif.	1000	WBBC	1400	214.2	Brooklyn, N. Y.	500
KFIO	640	468.5	Los Angeles, Calif.	50000	KNOW	1500	199.9	Austin, Texas	100	WBBL	1210	247.8	Richmond, Va.	100
KFII	1120	267.7	Spokane, Wash.	100	KNX	1050	285.5	Los Angeles, Calif.	50000	WBBS	770	389.4	Chicago, Illinois	25000
KFIZ	1420	211.1	Fond du Lac, Wis.	100	KOA	830	361.2	Denver, Colo.	50000	WBBS	1300	230.6	Brooklyn, N. Y.	1000
KFJB	1200	249.9	Marshalltown, Iowa	*100	KOAC	550	545.1	Corvallis, Ore.	1000	WBBZ	1200	249.9	Ponca City, Okla.	100
KFJI	1210	247.8	Klamath Falls, Ore.	100	KOB	1180	254.1	Albuquerque, N. M.	10000	WBCH	1410	212.6	Bay City, Michigan	500
KFJM	1370	218.8	Grand Forks, N. D.	100	KOH	1380	217.3	Reno, Nev.	500	WBEN	900	333.1	Buffalo, N. Y.	1000
KFJR	1300	230.6	Portland, Ore.	500	KOIL	1260	238.0	Council Bluffs, Iowa	*1000	WBEO	1510	228.9	Marquette, Mich.	100
KFJZ	1370	218.8	Ft. Worth, Tex.	100	KOIN	940	319.0	Portland, Oregon	*1000	WBHS	1200	249.9	Huntsville, Ala.	100
KFKA	880	340.7	Greeley, Colo.	*500	KOL	1270	236.1	Seattle, Wash.	*1000	WBIG	1440	208.2	Greensboro, N. C.	*500
KFKU	1220	245.6	Lawrence, Kans.	1000	KOMA	1480	202.6	Oklahoma City, Okla.	5000	WBMS	1450	206.8	Hackensack, N. J.	250
KFKV	1020	293.9	Chicago, Illinois	10000	KOMO	920	325.9	Seattle, Wash.	1000	WBNO	1200	249.9	New Orleans, La.	100
KFLV	1410	212.6	Rockford, Illinois	500	KONO	1370	218.8	San Antonio, Tex.	100	WBNS	1430	209.7	Columbus, Ohio	500
KFLX	1370	218.8	Galveston, Texas	100	KOOS	1370	218.8	Marshfield, Ore.	100	WBNX	1350	222.1	New York, N. Y.	250
KFMX	1250	239.9	Northfield, Minn.	1000	KORE	1420	211.1	Eugene, Ore.	100	WBOQ	860	348.6	New York, N. Y.	50000
KFNF	890	336.9	Shenandoah, Iowa	*500	KOTN	1500	199.9	Pine Bluff, Ark.	100	WBOW	1310	228.9	Terre Haute, Ind.	100
KFOR	1210	247.8	Lincoln, Nebr.	*100	KOY	1390	215.7	Phoenix, Ariz.	*500	WBRC	930	322.4	Birmingham, Ala.	1000
KFOX	1250	239.9	Long Beach, Calif.	1000	KPCB	650	461.3	Seattle, Wash.	100	WBRE	1310	228.9	Wilkes-Barre, Pa.	100
KFPL	1310	228.9	Dublin, Texas	100	KPJM	1500	199.9	Prescott, Ariz.	100	WBSO	920	325.9	Needham, Mass.	500
KFPW	1310	228.9	Greenville, Tex.	15	KPO	680	440.9	San Francisco, Calif.	50000	WBT	1080	277.6	Charlotte, N. C.	50000
KFPY	1210	247.8	Ft. Smith, Ark.	100	KPOF	880	340.7	Denver, Colo.	500	WBTM	1370	218.8	Danville, Va.	100
KFQD	780	499.7	Anchorage, Alaska	250	KPPC	1210	247.8	Pasadena, Calif.	50	WBZ	990	302.8	Boston, Mass.	50000
KFRC	610	491.5	San Francisco, Calif.	*1000	KPQ	1500	199.9	Wenatchee, Wash.	100	WBZA	990	302.8	Boston, Mass.	1000
KFRU	630	475.9	Columbia, Mo.	500	KPRC	920	325.9	Houston, Texas	*1000	WCAC	600	499.7	Storr, Conn.	500
KFSO	600	499.7	San Diego, Calif.	1000	KQV	1380	217.3	Pittsburgh, Pa.	500	WCAD	1220	245.6	Canton, N. Y.	500
KFSG	1120	267.7	Los Angeles, Calif.	500	KQW	1010	296.9	San Jose, Calif.	1000	WCAE	1220	245.6	Pittsburgh, Pa.	1000
KFUO	550	545.1	Clayton, Mo.	*500	KRE	1370	218.8	Berkeley, Calif.	100	WCAL	1250	239.9	Northfield, Minn.	*1000
KFYD	1000	299.8	Los Angeles, Calif.	250	KREG	1500	199.9	Santa Ana, Calif.	100	WCAM	1280	234.2	Camden, N. J.	500
KFV5	1210	247.8	Cape Girardeau, Mo.	*100	KRGV	1260	238.0	Harlingen, Texas	500	WCAO	600	499.7	Baltimore, Md.	500
KFWB	950	315.6	Hollywood, Calif.	1000	KRKD	1120	267.7	Los Angeles, Calif.	500	WCAP	1280	234.2	Asbury Park, N. J.	500
KFXD	1200	249.9	Nampa, Idaho	100	KRLD	1040	288.3	Dallas, Texas	10000	WCAT	1200	249.9	Rapid City, S. D.	100
KFXF	920	325.9	Denver, Colo.	500	KRMD	1310	228.9	Shreveport, La.	100	WCAU	1170	256.3	Philadelphia, Pa.	50000
KFXJ	1200	249.9	Grand Junction, Colo.	100	KROW	930	322.4	Oakland, Calif.	1000	WCAX	1200	249.9	Burlington, Vt.	100
KFXM	1210	247.8	San Bernardino, Calif.	100	KRSC	1120	267.7	Seattle, Wash.	100	WCAZ	1070	280.2	Carthage, Ill.	100
KFXR	1310	228.9	Oklahoma City, Okla.	*100	KSAC	580	516.9	Manhattan, Kans.	*500	WCBA	1440	208.2	Allentown, Pa.	250
KFYD	1310	228.9	Lubbock, Texas	*100	KSCJ	1330	225.4	Sioux City, Iowa	*1000	WCBD	1080	277.6	Zion, Illinois	5000
KFYR	550	545.1	Bismarck, N. D.	*1000	KSD	550	545.1	St. Louis, Mo.	*500	WCBM	1370	218.8	Baltimore, Md.	*100
KGA	1470	204.9	Spokane, Wash.	5000	KSEI	900	333.1	Pocatello, Idaho	*250	WCBS	1210	247.8	Springfield, Ill.	100
KGAR	1370	218.8	Tucson, Ariz.	*100	KSL	1130	265.3	Salt Lake City, Utah	50000	WCDO	810	370.2	Minneapolis, Minn.	50000
KGB	1330	225.4	San Diego, Calif.	*1000	KSLM	1370	218.8	Salem, Oregon	100	WCFL	970	309.1	Chicago, Illinois	1500
KGBU	900	333.1	Ketchikan, Alaska	500	KSO	1320	218.8	Des Moines, Iowa	*250	WCHS	580	516.9	Charleston, W. Va.	*250
KGBX	1310	228.9	Springfield, Mo.	100	KSOO	1110	270.1	Sioux Falls, S. D.	2500	WCKY	1490	201.6	Covington, Kentucky	5000
KGBZ	930	322.4	York, Nebr.	*1000	KSTP	1460	205.4	St. Paul, Minn.	10000	WCLO	1200	249.9	Janesville, Wis.	100
KGCC	1270	236.1	Decorah, Iowa	100	KSUN	1200	249.9	Lowell, Ariz.	100	WCLS	1310	228.9	Joliet, Ill.	100
KGCU	1240	249.9	Mandan, N. D.	250	KTAB	560	535.4	San Francisco, Calif.	1000	WCNW	1500	199.9	Brooklyn, N. Y.	*100
KGCX	1310	228.9	Wolf Point, Mont.	*100	KTAR	620	483.6	Phoenix, Ariz.	*500	WCOA	1340	223.7	Pensacola, Fla.	500
KGDE	1200	249.9	Fergus Falls, Minn.	*100	KTAT	1240	241.8	Ft. Worth, Tex.	1000	WCOC	880	340.7	Meridian, Miss.	*500
KGDM	1100	272.6	Stockton, Calif.	250	KTBS	1450	206.8	Shreveport, La.	1000	WCOR	1210	247.8	Chicago, Ill.	100
KGDY	1340	223.7	Huron, S. D.	250	KTFI	1240	241.8	Twin Falls, Idaho	500	WCSC	1360	220.4	Charleston, S. C.	*500
KGEK	1200	249.9	Yuma, Colo.	100	KTHS	1040	288.3	Hot Springs, Ark.	10000	WCSH	940	319.0	Portland, Maine	*1000
KGER	1360	220.4	Long Beach, Calif.	1000	KTM	780	384.4	Los Angeles, Calif.	*500	WCDA	1220	245.6	Tampa, Fla.	*1000
KGEZ	1310	228.9	Kalispell, Mont.	100	KTRB	740	405.2	Modesto, Calif.	250	WDAF	610	491.5	Kansas City, Mo.	1000
KGFF	1420	211.1	Shawnee, Okla.	100	KTRH	1330	225.4	Houston, Tex.	*1000	WDAG	1410	212.6	Amarillo, Tex.	*1000
KGFG	1370	218.8	Oklahoma City, Okla.	100	KTSA	1290	232.4	San Antonio, Tex.	*1000	WDAA	1310	228.9	El Paso, Texas	100
KGFI	1500	199.9	Corpus Christi, Texas	*100	KTSM	1310	228.9	El Paso, Texas	100	WDAS	1370	218.8	Philadelphia, Pa.	*100
KGFL	1200	249.9	Los Angeles, Calif.	100	KTUL	1400	214.2	Chickasha, Okla.	*250	WDAY	940	319.0	Fargo, N. D.	*1000
KGFK	1500	199.9	Moorhead, Minn.	100	KTW	1220	245.6	Seattle, Wash.	1000	WDBJ	930	322.4	Roanoke, Va.	1000
KGFL	1370	218.8	Roswell, N. Mex.	100	KUJ	1370	218.8	Walla Walla, Wash.	100	WDBO	580	516.9	Orlando, Fla.	250
KGFW	1310	228.9	Kearney, Nebr.	100	KUMA	1420	211.1	Yuma, Ariz.	100	WDEL	1120	267.7	Wilmington, Del.	*250
KGFX	630	475.9	Pierre, S. D.	200	KUOA	1260	238.0	Fayetteville, Ark.	1000	WDEY	550	545.1	Waterbury, Vt.	500
KGGC	1420	211.1	San Francisco, Calif.	100	KUSD	890	336.9	Vermilion, S. D.						



# SILVERTONE ROAMER



Height 37 1/2 inches  
**Model 1830—All Wave**

Tour the world from your armchair with this 11-tube all wave Silvertone. London—Berlin—Paris—Madrid—Rome—Caracas—Bogota—Mexico City—Canada and many others can be included in your itinerary. In addition you get a furniture piece that is a work of art. Truly the radio set of tomorrow! Equipped with fully guaranteed Silvertone tubes and all-wave aerial.

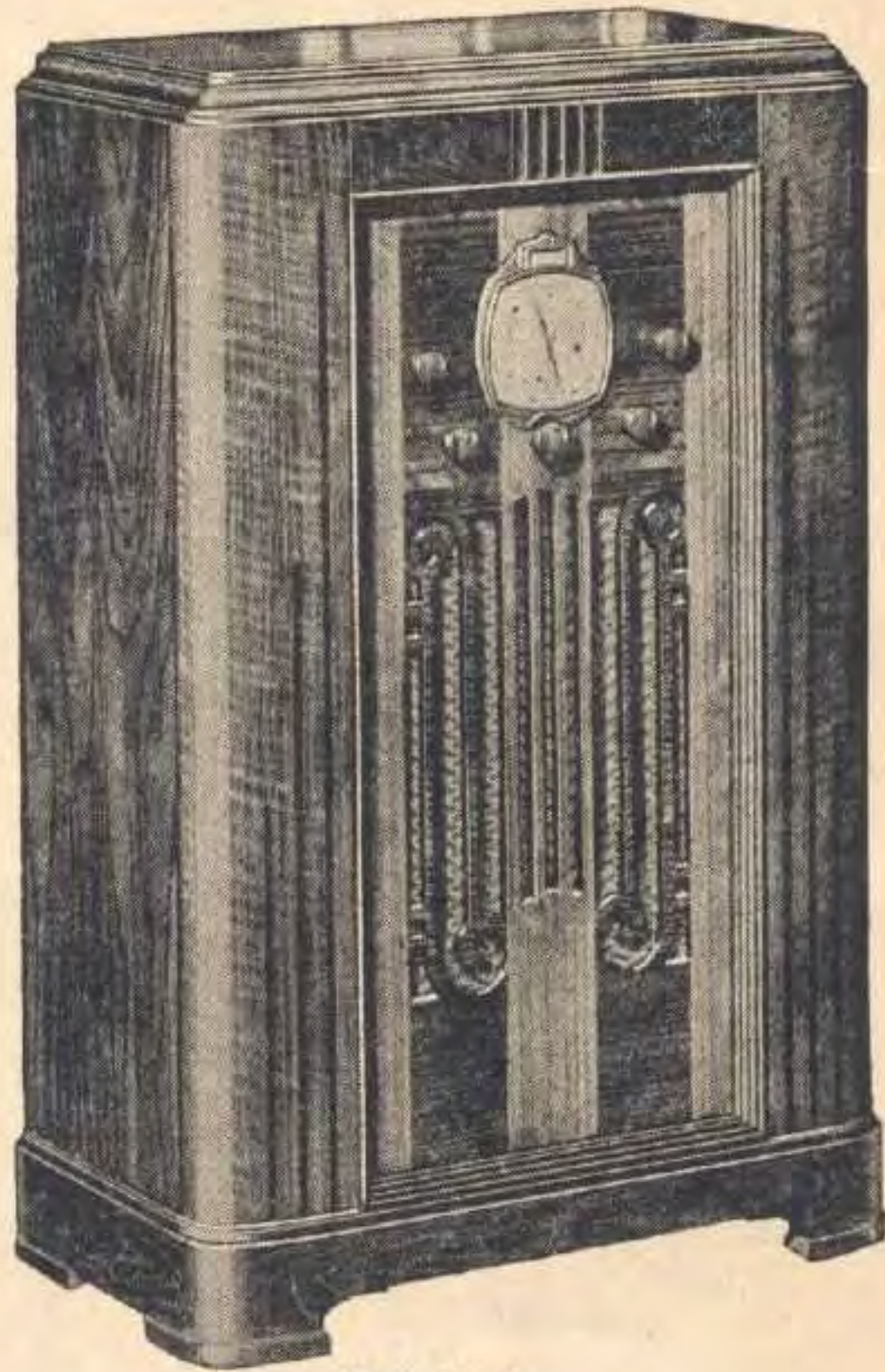


Height 39 3/4 inches  
**Model 1828—Dual Wave**

Every one of the 14 tubes in this Silvertone will do its share to bring you the best in entertainment from foreign lands or American stations. Its 12 inch full dynamic speaker will thrill you with its faithful reproduction of both speech and music. The six-legged conventional cabinet of expensive woods and veneers is a perennial favorite with home decorators. Equipped with fully guaranteed Silvertone tubes and short wave aerial.

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Whether you want to listen to an opera from Rome, a fandango from Madrid or a tango from South America, these and more are yours with a new Silvertone Radio. And just as thrilling is the reception of distant stations on the North American continent never heard before.



Height 37 inches  
**Model 1829—All Wave**

Classical Moderne is the cabinet styling of this very attractive Silvertone 8-tube all-wave American and Foreign Broadcast Receiver. Tuning range 18 to 545 meters, inclusive. World wide reception plus tone reproduction that beggars description. Of course it has the latest features such as automatic volume control—new streamlined airplane dial—tone compensator—four band tuning switch—and many others. Superb hand rubbed cabinet of costly woods and walnut veneers. Equipped with fully guaranteed Silvertone tubes and special Silvertone all-wave aerial system.

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# Sears, Roeb

The World's

# THE NEW WORLD OF RADIO



The utmost in radio enjoyment is provided by the almost "in person" reproduction of Silvertone Radios. It's exciting to listen to foreign stations, but the real enjoyment of radio lies in the faithfulness of reproduction which makes you feel "there."

**BY PAYMENT**  
as it possible  
conveniently  
model radio.



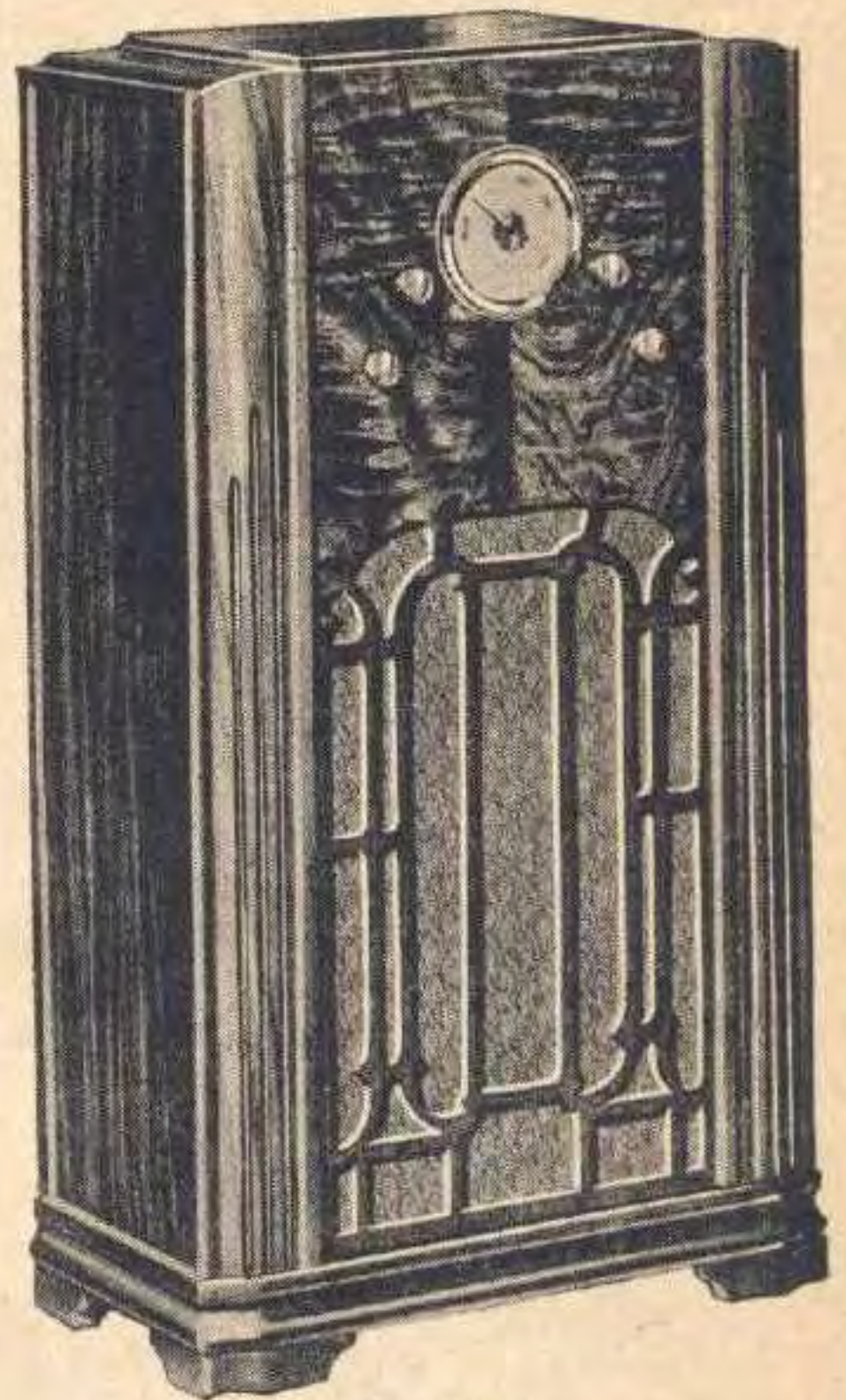
Height 42 3/4 inches  
**Model 1831—All Wave**

Roam to Rome or Roll to Rio with this finest of 14-tube all-wave American and Foreign Receiver. Tuning range 16 to 555 meters, inclusive. Four tuning bands—Visual Tuning Meter—in fact, every worthwhile feature is incorporated, plus two full dynamic loudspeakers for that "in person" reproduction so important to real radio enjoyment. Exquisite hand rubbed rounded corner, pedestal base cabinet of rich walnut veneers trimmed with rosewood. Equipped with fully guaranteed factory matched Silvertone tubes and special Silvertone all-wave aerial system.

usively by

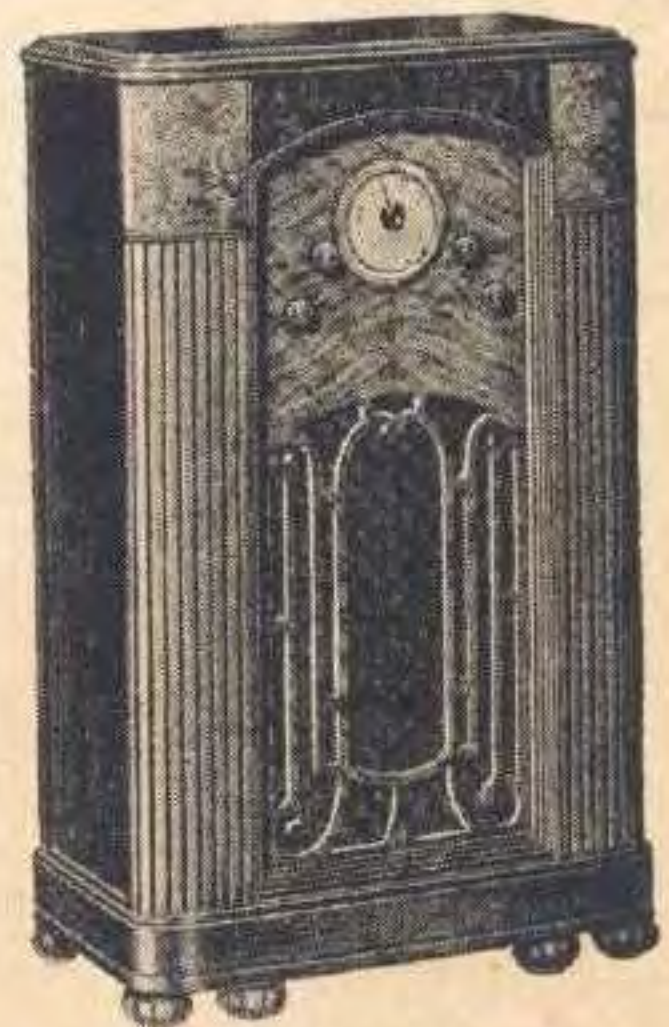
# Woolworth and Co.

Largest Store



Height 37 3/4 inches  
**Model 1826—Dual Wave**

A powerful 7-tube American and Foreign Broadcast receiver with aeroplane dial—automatic volume control—full dynamic speaker—tone control and other features. Tunes in foreign programs in addition to standard broadcasts. Equipped with fully guaranteed Silvertone tubes and special short wave aerial—a remarkable value.



Height 36 3/4 inches  
**Model 1827—Dual Wave**

Outstanding performance on both Foreign short wave programs and standard broadcast reception characterizes this 11-tube Silvertone. Exceptional tonal qualities and cabinet beauty combine to make it a musical instrument to enjoy and admire. Equipped with fully guaranteed Silvertone tubes and special short wave aerial.

# SILVERTONE TUBES ARE PRECISION BUILT

## U. S. Broadcasting Stations—cont.

CALL LETTER	Kilo-cycle	Meters	LOCATION	Power	CALL LETTER	Kilo-cycle	Meters	LOCATION	Power
WFAB	1300	230.6	New York, N Y	1000	WKZO	590	508.2	Kalamazoo, Mich.	1000
WFAM	1200	249.9	South Bend, Ind	100	WLAC	1470	204.0	Nashville, Tenn.	5000
WFAS	1210	247.8	White Plains, N Y	100	WLAP	1420	211.1	Louisville, Kentucky	*100
WFBC	1300	249.9	Greenville, S C	*250	WLB	1250	239.9	Minneapolis, Minn.	1000
WFBE	1300	249.9	Cincinnati, Ohio	*100	WLBC	1310	228.9	Muncie, Ind.	*50
WFBB	1310	228.9	Altoona, Pa	100	WLBK	1420	211.1	Kansas City, Kans.	100
WFBL	1360	220.4	Syracuse, N Y	*1000	WLBL	900	333.1	Stevens Point, Wis.	2500
WFBM	1230	243.8	Indianapolis, Ind.	1000	WLBW	1260	238.0	Erie, Pa.	1000
WFBR	1270	236.1	Baltimore, Md	500	WLBZ	620	483.6	Bangor, Me.	500
WFDF	1310	228.9	Flint, Mich	100	WLEU	1420	211.1	Erie, Pa.	100
WFEA	1340	223.7	Manchester, N H	500	WLEY	1370	218.8	Lexington, Mass.	*100
WFI	560	535.4	Philadelphia, Pa	500	WLIT	560	535.4	Philadelphia, Pa.	500
WFLA	620	483.6	Clearwater, Fla	*250	WLNH	1310	228.9	Laconia, N. Y.	100
WGAL	1500	228.9	Lancaster, Pa	*100	WLS	870	344.6	Chicago, Ill.	50000
WGAR	1450	206.8	Cleveland, Ohio	*500	WLTH	1400	214.2	Brooklyn, N. Y.	500
WGBB	1210	247.8	Freeport, N Y	100	WLVA	1200	218.8	Lynchburg, Va.	100
WGBF	630	475.9	Evansville, Ind	500	WLW	700	428.3	Cincinnati, Ohio	50000
WGBI	880	340.7	Scranton, Pa	250	WLWL	1100	272.6	New York, N. Y.	5000
WGCM	1210	247.8	Mississippi City, Miss	100	WMAI	630	475.9	Washington, D. C.	*250
WGCP	1250	239.9	Newark, N J	250	WMAQ	670	447.5	Chicago, Illinois	50000
WGES	1360	220.4	Chicago, Ill	*500	WMAZ	1420	211.1	Springfield, Mass.	*100
WGH	1310	228.9	Newport News, Va	100	WMAZ	1180	336.9	Macon, Ga.	1000
WGL	1370	218.8	Ft Wayne, Indiana	100	WMAZ	1420	211.1	Detroit, Michigan	*100
WGLC	1370	218.8	Glens Falls, N Y	100	WMBJ	440	208.2	Peoria, Ill.	*500
WGN	720	416.4	Chicago, Illinois	50000	WMBF	1300	230.6	Miami, Fla.	1000
WGNV	1210	247.8	Chester Township, N Y	100	WMBG	1210	247.8	Richmond, Va.	100
WGPC	1420	211.1	Americus, Ga.	100	WMBH	1420	211.1	Joplin, Mo.	*100
WGR	550	545.1	Buffalo, N Y	1000	WMBI	1080	277.6	Chicago, Ill.	5000
WGST	890	336.9	Atlanta, Ga	*250	WMBQ	1310	228.9	Auburn, New York	100
WGY	790	379.5	Schenectady, N Y	50000	WMBQ	1500	199.9	Brooklyn, N. Y.	100
WHA	940	319.0	Madison, Wis	*1000	WMBR	1370	218.8	Tampa, Fla.	100
WHAM	1150	260.7	Rochester, N Y	50000	WMC	780	384.4	Memphis, Tenn.	*500
WHAS	820	365.6	Louisville, Kentucky	50000	WMCA	570	526.0	New York, N. Y.	500
WHAT	1310	228.9	Philadelphia, Pa	100	WMEX	1500	199.9	Chelsea, Mass.	*100
WHAZ	1300	230.6	Troy, N Y	500	WMMN	890	336.9	Fairmont, W. Va.	*250
WHB	860	348.6	Kansas City, Mo	500	WMPC	1500	199.9	Lapeer, Mich.	100
WHBC	1200	249.9	Canton, Ohio	100	WMT	600	499.7	Waterloo, Iowa	*500
WHBD	1370	218.8	Mt Orab, Ohio	100	WNAC	1230	243.8	Boston, Mass.	*1000
WHBF	1210	247.8	Rock Island, Ill	100	WNAD	1010	296.9	Norman, Okla.	500
WHBL	1410	212.6	Sheboygan, Wis	500	WNAX	570	526.0	Yankton, S. D.	*1000
WHBQ	1370	218.8	Memphis, Tenn	100	WNBF	1500	199.9	Binghamton, N. Y.	100
WHBU	1210	247.8	Anderson, Ind	100	WNBH	1310	228.9	New Bedford, Mass.	*100
WHBY	1200	249.9	Green Bay, Wis	100	WNBQ	1200	249.9	Silver Haven, Pa.	100
WHDF	1370	218.8	Calumet, Mich	*100	WNBK	1430	209.7	Memphis, Tenn.	500
WHDH	830	361.2	Boston, Mass	1000	WNBX	1260	238.0	Springfield, Vt.	500
WHDL	1420	211.1	Tupper Lake, N Y	100	WNBZ	1290	232.4	Saranac Lake, N. Y.	50
WHEB	740	405.2	Portsmouth, N H	250	WNEL	1290	232.4	San Juan, P. R.	500
WHEC	1430	209.7	Rochester, N Y	*500	WNEW	1250	239.9	Newark, N. J.	*1000
WHEF	1500	199.9	Kosciusko, Miss	*100	WNOX	1010	535.4	Knoxville, Tenn.	*1000
WHET	1370	218.8	Dothan, Alabama	100	WNRA	1420	211.1	Muscle Shoals City, Ala.	100
WHFC	1420	211.1	Cicero, Ill	100	WNYC	810	370.2	New York, N. Y.	500
WHIS	1410	212.6	Bluefield, W Va	250	WOAI	1190	252.0	San Antonio, Tex.	50000
WHK	1390	215.7	Cleveland, Ohio	*1000	WOC	1000	299.8	Davenport, Iowa	50000
WHN	1010	299.9	New York, N Y	1000	WOCL	1210	247.8	Jamestown, N. Y.	50
WHO	1000	296.8	Des Moines, Iowa	50000	WODX	1410	212.6	Mobile, Ala.	500
WHOM	1450	206.8	Jersey City, N J	250	WOI	640	468.5	Ames, Iowa	5000
WHP	1430	209.7	Harrisburg, Penn	*500	WOKO	1430	209.7	Albany, N. Y.	*500
WIBA	1280	234.2	Madison, Wis	*500	WOL	1310	228.9	Washington, D. C.	*100
WIBG	970	309.1	Glenside, Pa	100	WOMT	1210	247.8	Manitowoc, Wis.	100
WIBM	1370	218.8	Jackson, Mich	100	WOOD	1270	236.1	Grand Rapids, Mich.	500
WIBU	1210	247.8	Poynette, Wis	100	WOPI	1500	199.9	Bristol, Tenn.	100
WIBW	580	516.9	Topeka, Kans	1000	WOR	710	422.3	Newark, N. J.	5000
WIBX	1200	249.9	Utica, New York	*100	WORC	1200	249.9	Worcester, Mass.	100
WICC	600	499.7	Bridgeport, Conn	*500	WORX	1000	299.8	York, Penn.	1000
WIL	1200	249.9	St Louis, Mo	*100	WOS	630	475.9	Jefferson City, Mo.	500
WILL	890	336.9	Urbana, Ill	*250	WOSU	570	526.0	Columbus, Ohio	*750
WILM	1420	211.1	Wilmington, Del	100	WOV	1130	265.3	New York, N. Y.	1000
WIND	560	535.4	Gary, Ind.	*1000	WOW	590	508.2	Omaha, Nebr.	*1000
WINS	1180	254.1	New York, N. Y.	1000	WOWD	460	258.5	Ft. Wayne, Ind.	10000
WIOD	1300	230.6	Miami, Fla.	1000	WPAD	1420	211.1	Paducah, Kentucky	100
WIP	610	491.5	Philadelphia, Pa.	*500	WPEN	1500	325.9	Philadelphia, Pa.	*100
WIS	560	296.9	Columbia, S. C.	*1000	WPFB	1370	218.8	Hattiesburg, Miss.	100
WISN	1120	267.7	Milwaukee, Wis.	*250	WPG	1100	272.6	Atlantic City, N. J.	5000
WJAC	1310	228.9	Johnstown, Pa.	100	WPHR	880	249.9	Petersburg, Va.	500
WJAR	1060	282.8	Norfolk, Nebr.	1000	WPRO	630	247.8	Providence, R. I.	250
WJAG	890	336.9	Providence, R. I.	*250	WPTF	680	440.4	Raleigh, N. C.	1000
WJAS	1290	232.4	Pittsburgh, Pa.	*1000	WQAM	560	535.4	Miami, Fla.	1000
WJAX	900	333.1	Jacksonville, Fla.	1000	WQAN	880	340.7	Scranton, Pa.	250
WJAY	610	491.5	Cleveland, Ohio	500	WQBC	1360	220.4	Vicksburg, Mississippi	*500
WJBC	1200	249.9	LaSalle, Ill.	100	WQDM	1370	218.8	St. Albans, Vt.	100
WJBI	1210	247.8	Red Bank, N. J.	100	WQDX	1210	247.8	Thomasville, Ga.	100
WJBK	1370	218.8	Detroit, Mich.	100	WRAK	1370	218.8	Williamsport, Pa.	100
WJBL	1200	249.9	Decatur, Illinois	100	WRAM	1500	199.9	Wilmington, N. C.	100
WJBO	1420	211.1	New Orleans, La.	100	WRAW	1310	228.9	Reading, Pa.	100
WJBW	1200	249.9	New Orleans, La.	100	WRAX	1020	325.9	Philadelphia, Pa.	250
WJBY	1210	247.8	Gadsden, Ala.	100	WRBL	1200	249.9	Columbus, Ga.	100
WJDX	1270	236.1	Jackson, Miss.	*1000	WRBX	1410	212.6	Roanoke, Va.	*250
WJEJ	1210	247.8	Hagerstown, Md.	100	WRC	950	315.6	Washington, D. C.	*500
WJEM	990	302.8	Tupelo, Miss.	500	WRDM	620	483.6	Greensburg, Pa.	250
WJIM	1210	247.8	Lansing, Mich.	100	WRDO	1370	218.8	Augusta, Maine	100
WJJD	1130	265.3	Mooseheart, Ill.	20000	WRDW	1500	199.9	Augusta, Ga.	100
WJMS	1420	211.1	Ironwood, Mich.	100	WREC	600	499.7	Memphis, Tenn.	*500
WJR	750	399.8	Detroit, Michigan	10000	WREN	1220	245.6	Lawrence, Kansas	1000
WJSV	1460	205.4	Alexandria, Va.	10000	WRGA	1500	199.9	Rome, Ga.	100
WJTL	1370	218.8	Oglethorpe University, Ga.	100	WRHM	1250	239.9	Minneapolis, Minn.	1000
WJW	1210	247.8	Akron, Ohio	100	WRJN	1370	218.8	Racine, Wis.	100
WJZ	760	394.5	New York, N. Y.	*30000	WROK	1410	212.6	Rockford, Ill.	500
WKAQ	1240	241.8	San Juan, Porto Rico	1000	WROL	1310	228.9	Knoxville, Tenn.	100
WKAR	1040	288.3	E. Lansing, Mich.	1000	WRR	1280	234.2	Dallas, Tex.	500
WKBB	1500	199.9	East Dubuque, Ill.	100	WRUF	830	361.2	Gainesville, Fla.	5000
WKBF	1400	214.2	Indianapolis, Ind.	*500	WRVA	1110	270.1	Richmond, Va.	5000
WKBH	1380	217.3	LaCrosse, Wis.	1000	WSAI	1330	225.6	Cincinnati, Ohio	*1000
WKBI	1420	211.1	Cicero, Illinois	100	WSAJ	1310	228.9	Grove City, Pa.	100
WKBN	570	526.0	Youngstown, Ohio	500	WSAN	1440	208.2	Allentown, Pa.	250
WKBO	1200	249.9	Harrisburg, Pa.	100	WSAR	1450	206.8	Fall River, Mass.	250
WKBV	1420	211.1	Connersville, Ind.	100	WSAZ	1190	252.0	Huntington, W. Va.	1000
WKBW	1480	202.6	Buffalo, N. Y.	5000	WSB	740	405.2	Atlanta, Ga.	50000
WKBZ	1500	199.9	Ludington, Mich.	100	WSBC	1210	247.8	Chicago, Ill.	100
WKEU	1500	199.9	LaGrange, Ga.	100	WSBT	1230	245.8	South Bend, Ind.	500
WKFI	1210	247.8	Greenville, Miss.	100	WSEN	1210	247.8	Columbus, Ohio	100
WKJC	1200	249.9	Lancaster, Pa.	*100	WSFA	1410	212.6	Montgomery, Ala.	500
WKOK	1210	247.8	Sunbury, Pa.	100	WSGN	1310	228.9	Birmingham, Ala.	100
WKRC	550	545.1	Cincinnati, Ohio	*500	WSIX	1210	237.8	Springfield, Tenn.	100
WKY	900	333.1	Oklahoma City, Okla.	1000	WSJS	1310	228.9	Winston-Salem, N. C.	100

## Ten Rules for Better Short Wave Reception

- 1—Have an efficient short wave aerial. It must be directional and point in the direction from which short wave reception is wanted.
- 2—Have patience. Tune slowly—exceedingly slow. Go over each band several times. Tuning quickly will not produce results.
- 3—Tune when the station you want to hear is on the air. Consult your radiolog. Don't try to hear stations that are not on the air and then blame the receiver if you do not get them.
- 4—Operate with the volume and sensitivity controls well advanced. Ascertain the best position for either or both.
- 5—Make a complete tuning log of your receiver. Whenever you hear a new short wave station, log the position on the dial and the time received. This will help trace other station positions on your receiver and will enable you to get the station logged again, when wanted.
- 6—In attempting to tune in a station heard before, remember that short wave reception varies greatly. A station will be heard very loud one day and may not be obtained at all the next.
- 7—Foreign short wave stations operate on many frequencies (wave lengths). They are also subject to change. A short wave station may be listed on one frequency and yet it will be broadcasting on another.
- 8—Do not depend entirely on printed frequencies and time schedules for short wave stations. The information is correct at the time of printing. Allowance must be made for changes in time and frequencies, which occur after printing.
- 9—Consider the time difference when tuning for foreign short wave stations. Consult the World Time Chart or figure the time difference yourself so that tuning will be done when the stations are likely to be on the air.

Generally, the following should be observed for best results. From early dawn to about mid-day tune between 13 and 21 meters. Tune between 20 and 35 meters from about mid-day to 8:00 P. M., for short wave stations located in the eastern part of the world, such as England, Germany, Spain, Italy, etc. Tune on this same band from about 1:00 A. M. to dawn for stations in the Western part of the world. After dark it is

Continued on page 15

## How to Identify Most Popular Stations by their Signatures

Where the native language cannot be translated, foreign stations may often be identified and logged by listening closely to characteristic announcements and signatures. Some of the most common of these signs are given below.

- Strokes of Big Ben, London, GSB Daventry Eng.
- Melody on bells, repeated, GSD, Daventry, Eng.
- "Hello, hello, here is Moscow"
- .....RKF, RV59, Moscow, U. S. S. R.
- Playing of "Marseillaises", FYA, Pontoise, France
- "Pronto, pronto, Radio Vaticano"
- .....HVJ, Vatican City, Rome
- "Radio Roma-Napoli".....12RO Rome, Italy
- "This is Huizen".....PHI, Hilversum, Holland
- Peculiar call of the Kookaburra Bird at start and finish of programs
- .....VK2ME, Sydney Australia
- "Ay-ah-coo".....EAQ, Madrid, Spain
- Cuckoo calls between selections
- .....CT1AA, Lisbon, Portugal
- "Hello, Hello. Polski Radjo-Poznan"
- .....SRI, Poznan, Poland
- "Radio Club de Brazil"
- .....PRBA, Rio de Janeiro, Brazil
- "Radio Rabat dans Maroc"
- .....CNR, Rabat, Morocco
- "Achay-kah-effay, Bagota".....HKF, Bogota Col.
- "La Vox de Lago"
- .....YV11BMO, Caracas, Venezuela
- Playing of "The Internationale"
- .....RV59, Moscow, U. S. S. R.
- Krr-ah-kas.....YV3BC, Caracas, Venezuela

\* Indicates Station Uses More Power in the Daytime

# SEARS SELLS MOST "B" BATTERIES

## U. S. Broadcasting Sta.—cont.

CALL LETTER	Kilo-cycle	Meters	LOCATION	Power
WSM	650	461.3	Nashville, Tenn.	50000
WSMB	1320	227.1	New Orleans, La.	1000
WSMK	1380	217.3	Dayton, Ohio	200
WSOC	1210	247.8	Charlotte, N. C.	*100
WSPA	1420	211.1	Spartanburg, S. C.	*100
WSPD	1340	223.7	Toledo, Ohio	*1000
WSUI	880	340.7	Iowa City, Iowa	500
WSUN	620	483.6	Clearwater, Fla.	*250
WSVA	550	545.1	Staunton, Va.	500
WSVS	1370	218.8	Buffalo, N. Y.	50
WSYB	1500	199.9	Rutland, Vt.	100
WSYR	570	526.0	Syracuse, N. Y.	250
WSYU	570	526.0	Syracuse, N. Y.	250
WTAD	1440	208.2	Quincy, Illinois	500
WTAG	580	516.9	Worcester, Mass.	*250
WTAM	1070	280.2	Cleveland, Ohio	50000
WTAQ	1330	225.4	Eau Claire, Wis.	1000
WTAR	780	384.4	Norfolk, Va.	500
WTAW	1120	267.7	College Station, Tex.	500
WTAX	1210	247.8	Springfield, Ill.	100
WTBO	800	211.1	Cumberland, Md.	250
WTCL	1310	228.9	Philadelphia, Pa.	100
WTFI	1450	206.8	Atlanta, Ga.	500
WTIC	1060	282.8	Hartford, Conn.	50000
WTJS	1310	228.9	Jackson, Tenn.	*100
WTMJ	620	483.6	Milwaukee, Wis.	*1000
WTNJ	1280	234.2	Trenton, N. J.	500
WTOC	1260	238.0	Savannah, Ga.	1000
WTRC	1310	228.9	Elkhart, Ind.	*50
WVFW	1400	214.2	Brooklyn, N. Y.	500
WVAE	1200	249.9	Hammond, Ind.	100
WWJ	920	325.9	Detroit, Mich.	1000
WWL	850	353.7	New Orleans, La.	10000
WWNC	570	526.0	Asheville, N. C.	1000
WWRL	1500	199.9	Woodside, N. Y.	*100
WWSW	1500	199.9	Pittsburgh, Pa.	*100
WWVA	1160	258.5	Wheeling, W. Va.	5000
WXFZ	1240	241.8	Detroit, Mich.	1000

## Canadian Broadcasting Stations

CALL LETTER	Kilo-cycle	Meters	LOCATION	Power
CFAC	930	322.4	Calgary, Alta.	100
CFBO	1210	247.8	St. John, N. B.	100
CFCF	600	499.7	Montreal, Que.	500
CFCH	930	322.4	North Bay, Ont.	100
CFCN	1030	291.1	Calgary, Alta.	10000
CFCO	600	499.7	Chatam, Ont.	50
CFCT	1450	206.8	Victoria, B. C.	50
CFCY	630	475.9	Charlottetown, P. E. I.	500
CFJC	110	228.9	Kamloops, B. C.	100
CFLC	930	322.4	Prescott, Ont.	100
CFNB	1030	291.1	Fredericton, N. B.	500
CFPL	730	410.7	London, Ont.	100
CFQC	1230	243.8	Saskatoon, Sask.	500
CFRB	690	434.5	Toronto, Ont.	10000
CFRC	1510	198.6	Kingston, Ont.	100
CFTP	1120	267.7	Edmonton, Alta.	100
CHAB	1200	249.9	Moose Jaw, Sask.	100
CHCK	1310	228.9	Charlottetown, P. E. I.	50
CHGS	1120	267.7	Summerside, P. E. I.	50
CHLP	1120	267.7	Montreal, Que.	100
CHML	1010	296.9	Hamilton, Ont.	50
CHNC	1210	247.8	New Carlisle, Que.	100
CHNS	1050	285.5	Halifax, N. S.	500
CHRC	930	322.4	Quebec, Que.	100
CHSJ	1370	218.8	St. John, N. B.	100
CHWC	1010	296.9	Regina, Sask.	500
CHWK	780	384.4	Chilliwack, B. C.	100
CJAT	1200	249.9	Trail, B. C.	50
CJCA	730	410.7	Edmonton, Alta.	1000
CJCB	880	340.7	Sydney, N. S.	50
CJCI	690	434.5	Calgary, Alta.	100
CJGX	630	475.9	Winnipeg, Man.	500
CJKL	1310	228.9	Kirkland Lake, Ont.	100
CJLS	1310	228.9	Yarmouth, N. S.	100
CJOC	840	356.9	Lethbridge, Alta.	100
CJOR	600	499.7	Vancouver, B. C.	500
CJRC	1390	215.7	Winnipeg, Man.	100
CJRM	540	555.2	Moose Jaw, Sask.	1000
CKBI	1210	247.8	Prince Albert, Sask.	100
CKAC	730	410.7	Montreal, Que.	5000
CJRW	880	340.7	Fleming, Sask.	500
CKCD	1010	296.9	Vancouver, B. C.	100
CKCH	1210	247.8	Hull, Que.	100
CKCK	1010	296.9	Regina, Sask.	500
CKCL	580	516.9	Toronto, Ont.	100
CKCO	1010	296.9	Ottawa, Ont.	100
CKCR	1510	198.6	Waterloo, Ont.	100
CKCV	1310	228.9	Quebec, Que.	50
CKFC	1410	212.6	Vancouver, B. C.	50
CKGB	1420	211.1	Timmins, Ont.	100
CKLW	840	356.9	Windsor, Ont.	5000
CKMC	1210	247.8	Cobalt, Ont.	50
CKMO	1410	212.6	Vancouver, B. C.	100
CKNC	1030	291.1	Toronto, Ont.	100
CKOC	1120	267.7	Hamilton, Ont.	500
CKOV	1210	247.8	Kelowna, B. C.	50
CKPC	930	322.4	Brentford, Ont.	100
CKPR	780	384.4	Fort William, Ont.	50
CKTB	1200	249.9	St. Catharines, Ont.	100
CKUA	580	516.9	Edmonton, Alta.	500
CKWX	1010	296.9	Vancouver, B. C.	100
CKX	1450	206.8	Brandon, Man.	500
CKY	910	329.6	Winnipeg, Man.	5000
CRCM	910	329.6	Montreal, Que.	5000
CRCO	880	340.7	Ottawa, Ont.	1000
CRCS	1500	199.9	Chicoutimi, Que.	100
CRCT	960	312.3	Toronto, Ont.	5000
CRCV	1100	272.6	Vancouver, B. C.	1000

## Newfoundland Broadcasting Sta.

CALL LETTER	Kilo-cycle	Meters	LOCATION	Power
VOAS	810	370.2	St. John's	100
VOGY	1400	214.2	St. John's	75
VONF	1195	251.1	St. John's	400
VOWR	900	333.1	St. John's	500

## Cuban Broadcasting Stations

CALL LETTER	Kilo-cycle	Meters	LOCATION	Power
CMAB	1249	241.8	Pinar del Rio	20
CMAB	680	440.9	Havana	1000
CMBC	1270	236.1	Havana	150
CMBD	965	312.3	Havana	250
CMBG	1048	288.3	Havana	225
CMBJ	1147	263.0	Havana	500
CMBL	1445	208.2	Havana	200
CMBN	1185	254.1	Havana	150
CMBS	768	394.5	Havana	200
CMBW	1140	263.0	Havana	600
CMBY	1230	243.8	Havana	250
CMCZ	1005	299.8	Havana	150
CMC	835	361.2	Havana	500
CMCA	1230	243.8	Havana	150
CMCB	1048	288.3	Havana	150
CMCC	915	329.6	Havana	500
CMCF	875	344.6	Havana	250
CMCG	1140	263.0	Havana	500
CMCJ	1185	254.1	Havana	500
CMCN	1357	222.1	Havana	250
CMCP	1270	236.1	Havana	150
CMCQ	765	394.5	Havana	1000
CMCR	1357	222.1	Havana	150
CMCU	1100	272.6	Havana	500
CMCW	965	312.3	Havana	150
CMCY	1316	228.9	Havana	500
CMDD	588	516.9	Havana	150
CMDE	915	329.6	Havana	150
CMGA	834	361.2	Colon	100
CMGB	1205	249.9	Matanzas	30
CMGC	820	365.6	Matanzas	30
CMGE	1375	218.8	Cardenas	30
CMGF	971	309.1	Matanzas	100
CMGH	1040	288.3	Matanzas	15
CMHD	945	319.0	Caibarien	500
CMHI	1037	291.1	Santa Clara	250
CMHJ	1125	267.7	Cienfuegos	60
CMHK	1215	247.8	Cruces	50
CMHL	1290	232.4	Cienfuegos	20
CMHW	1200	249.9	Cienfuegos	100
CMIC	1382	217.3	Camaguey	150
CMJE	1170	256.3	Camaguey	50
CMJF	910	329.6	Camaguey	200
CMJG	1050	285.5	Camaguey	50
CMJH	1150	260.7	Ciego de Avila	50
CMJI	1335	225.4	Ciego de Avila	45
CMJK	790	379.5	Camaguey	500
CMJL	960	312.3	Camaguey	50
CMJN	1240	241.8	Camaguey	50
CMJO	1010	296.9	Ciego de Avila	50
CMJP	1360	220.4	Moron	75
CMK	725	416.4	Havana	5000
CMKC	1034	291.1	Santiago	150
CMKJ	1300	230.6	Guantanamo	20
CMQ	645	468.2	Havana	500
CMW	595	508.2	Havana	1400
CMX	875	344.6	Havana	1000

## Mexican Broadcasting Stations

CALL LETTER	Kilo-cycle	Meters	LOCATION	Power
XEAB	1000	299.8	Guadalajara, Jal.	250
XEAB	1450	206.8	Nuevo Laredo, Tamps.	75
XEAC	1295	232.4	San Luis Potosi, S.L.P.	100
XEAE	980	305.9	Tijuana, B. C.	800
XEAF	990	302.8	Nogales, Son.	750
XEAI	1090	275.1	Mexico City, D. F.	100
XEAO	560	535.4	Mexicali, Baja Cal.	100
XEAW	965	312.3	Reynosa, Tamps.	10000
XEB	1030	291.1	Mexico City, D. F.	10000
XEBC	820	365.6	Agua Caliente, B. C.	2500
XEC	1000	299.8	Toluca, D. F.	50
XED	1155	260.7	Guadalajara, Jal.	500
XEF	665	545.3	Villa Acuna, Coah.	250000
XEFA	1250	239.9	Mexico City, D. F.	500
XEFB	1315	228.9	Monterrey, N. L.	100
XEFC	1050	285.5	Merida, Yuc.	100
XEFE	985	305.9	Laredo, Tamps.	100
XEFG	1085	277.6	Mexico City, D. F.	500
XEFI	1260	238.0	Chihuahua, Chih.	250
XEFJ	1000	299.8	Monterrey, N. L.	100
XEFO	940	319.0	Mexico City, D. F.	5000
XEFS	1000	299.8	Queretaro, Qro.	40
XEFV	1400	214.2	Juarez, Chih.	100
XEFW	1280	234.2	Tampico, Tamps.	70
XEFZ	1370	218.8	Mexico City, D. F.	100
XEH	1132	265.3	Monterrey, N. L.	250
XEI	1310	228.9	Morelia, Mich.	250
XEJ	1015	296.9	Juarez, Chih.	500
XEK	990	302.8	Mexico City, D. F.	100
XEL	1000	299.8	Saltillo, Coah.	40
XEMO	865	348.6	Tijuana, B. C.	1500
XEN	711	422.3	Mexico City, D. F.	1000
XENT	1115	270.1	Neuvo Laredo, Tamps.	70000
XEO	940	319.0	Mexico City, D. F.	5000
XEP	780	384.4	Mexico City, D. F.	500
XEPN	585	516.9	Piedras Negras, Coah.	75000
XES	1020	293.9	Tampico, Tamps.	250
XET	690	434.5	Monterrey, N. L.	500
XETB	1380	217.3	Torreón, Coah.	125
XETH	860	348.6	Puebla, Puebla	100
XETU	890	336.9	Pachuca, Hgo.	100
XETW	830	361.2	Mexico City, D. F.	500
XETZ	1210	247.8	Mexico City, D. F.	500
XEU	1010	296.9	Veracruz, V. C.	100
XEW	910	329.6	Mexico City, D. F.	5000
XEWV	1100	272.6	Veracruz, Ver.	250
XEX	630	475.9	Mexico City, D. F.	500
XEYZ	760	394.5	Mexico City, D. F.	10000
YEZ	630	475.9	Merida, Yuc.	500
XFB	1290	232.4	Jalapa, V. C.	1000
AFG	805	374.8	Aguascalientes, Aga.	350
XFG	638	475.9	Mexico City, D. F.	2000
XFO	940	319.0	Mexico City, D. F.	5000
XFX	840	356.9	Mexico City, D. F.	500

# Silvertone "B" Batteries

Outstanding quality and low prices are the reasons for Sears leadership in "B" Battery sales. Every Silvertone "B" Battery is guaranteed for a definite number of operating hours on a service basis. The operating hours are based on U. S. Government specifications. Silvertone "B" Batteries give more operating hours per dollar.



Size 7x3x7/8 In. Excellent quality light duty batteries, recommended for auto radios and the like. Meets U. S. Government specifications of 200 hours' service on 1250 ohm intermittent test. For more service per dollar, we recommend Silvertone Super Giant or Super Service Heavy Duty.

In ordering refer to No. 5126

## Silvertone SUPER GIANT 275 EXTRA HOURS

Size 7 1/8 in. high; 4 1/2 in. wide 8 3/4 in. long

There's no guessing about Silvertone power... you buy no "pig in a poke" when you invest in Silvertone! Hook up your set to Super Giant Silvertone and forget your "B" batteries for 7 to 9 months or even a year depending on your set and the number of hours you use it each day. Guaranteed for 675 hours of service based on U. S. Government 1250 ohm intermittent test requirements... far in excess of any other battery of similar price.



In ordering refer to No. 5130

## Leader Light Duty "B" Battery



Size, 6 5/8 x 2 3/4 x 7 1/4 in. For light duty on very small sets, comparable to batteries usually selling for \$1.25. For longer, more satisfactory service, we recommend the Silvertone Light Duty or the heavy duty batteries

• NO BETTER TUBES THAN SILVERTONE AT ANY PRICE •

World's Short Wave Stations Numerically According to Frequency

Mega-cycles	Meters	Call	LOCATION	Mega-cycles	Meters	Call	LOCATION	Mega-cycles	Meters	Call	LOCATION
60.20	4.98	W3XAY	Philadelphia, Pa.	18.54	16.18	VWY	Poona, India	11.95	25.10	RNE	Moscow, U. S. S. R.
60.00	5.0	W3XE	Philadelphia, Pa.	18.52	16.19	DFB	Nauen, Germany	11.945	25.13	FTA	St. Assise, France
		W6XAO	Los Angeles, Calif.	18.46	16.25	HJY	Bogota, Colombia	11.905	25.2	KKQ	Bolinas, Calif.
		W8XAN	Jackson, Mich.	18.41	16.29	GAS	Rugby, England	11.90	25.21	FYA	Pontoise (Paris) Fr.
		W8XF	Pontiac, Mich.	18.40	16.30	PCK	Kootwijk, Holland	11.88	25.25	FZS	Saigon, Indo-China
		W8XL	Cuyahoga Hts., Ohio	18.37	16.33	PMC	Bandoeng, Java			FYA	Paris, France
		W9XE	Marion, Ind.	18.35	16.35	WLA	Lawrenceville, N. J.			W9XF	Chicago, Ill.
		W1XW	Milton, Mass.	18.31	16.38	FZS	Saigon, Indo-China	11.87	25.27	W8XK	E. Pittsburgh, Pa.
		W2XAK	New York, N. Y.			GBS	Rugby, England	11.865	25.28	GSE	Daventry, England
		W2XF	New York, N. Y.	18.30	16.39	VVR	Maracay, Venezuela	11.84	25.34	W9XAO	Chicago, Ill.
		W2XR	Rocky Point, N. Y.	18.24	16.44	FRE	St. Assise, France	11.83	25.36	W2XE	Wayne, N. J.
		W3XAD	Camden, N. J.			FRD	St. Assise, France			W9XAA	Chicago, Ill.
		W6XAO	Phoenix, Ariz.			CPS	La Paz, Bolivia	11.81	25.4	I2RO	Rome, Italy
54.20	5.53	W3XAY	Philadelphia, Pa.	18.20	16.48	PLE	Bandoeng, Java	11.80	25.42	VE9GW	Ontario, Canada
53.80	5.57	W3XAY	Philadelphia, Pa.	18.17	16.51	CGA	Quebec, Canada	11.79	25.45	W1XAL	Boston, Mass.
51.40	5.83	W6XAO	Phoenix, Ariz.	18.13	16.55	LSY	Buenos Aires, Argen.	11.78	25.47	VE9DR	Quebec, Canada
		W6XC	San Francisco, Calif.	18.05	16.62	KQJ	Bolinas, Calif.	11.76	25.51	DJD	Zeeseu, Germany
		W8XAC	Lincoln Park, Mich.	17.85	16.80	W2XAO	Long Island City, N. Y.			KDA	Mexico City, Mex.
		W1XW	Milton, Mass.			PLF	Bandoeng, Java	11.75	25.53	GSD	Daventry, England
48.50	6.18	W3XE	Philadelphia, Pa.	17.83	16.82	PCY	Kootwijk, Holland	11.73	25.57	PHI	Huizen, Holland
		W6XAO	Los Angeles, Calif.	17.78	16.87	W3XAL	Bound Brook, N. J.	11.72	25.58	VE9JR	Winnipeg, Canada
		W8XAN	Jackson, Mich.			W8XK	E. Pittsburgh, Pa.	11.705	25.63	FYA	Paris, France
		W8XF	Pontiac, Mich.			W9XAA	Chicago, Ill.			KIO	Kauhuku, T. H.
		W8XL	Cuyahoga Hts. Mich.			W9XF	Chicago, Ill.	11.69	25.65	YVQ	Maracay, Venezuela
		W9XE	Marion, Ind.	17.77	16.88	PHI	Huizen, Holland	11.67	25.68	KIO	Kauhuku, T. H.
		W2XAK	New York, N. Y.			GSG	Daventry, England	11.66	27.73	PPQ	Rio de Janeiro, Brazil
		W2XF	New York, N. Y.	17.76	16.89	DJE	Zeeseu, Germany	11.54	26.0	XAM	Merida, Yucatan
		W2XR	Rocky Point, N. Y.	17.75	16.92	HSP	Bangkok, Siam	11.49	26.1	GBK	Bodmin, England
		W3XAD	Camden, N. J.	17.54	17.10	VWY	Poona, India	11.47	26.15	IBDK	S. S. Elettra
48.20	6.22	W3XAY	Philadelphia, Pa.	17.31	17.33	W3XL	Bound Brook, N. J.	11.435	26.22	DHC	Nauen, Germany
47.80	6.27	W3XAY	Philadelphia, Pa.	17.30	17.34	W9XL	Anoka, Minn.	11.34	26.44	DAN	Nordreich, Germany
43.00	6.97	W3XE	Philadelphia, Pa.			W8XL	Dayton, Ohio	11.18	26.83	CT3AQ	Funchal, Madeira
		W6XAO	Los Angeles, Calif.	17.27	17.37	DAF	Norden, Germany	10.99	27.3	ZLT	Wellington, N. Z.
		W8XAN	Jackson, Mich.	17.11	17.52	W2XDO	Ocean Gate, N. J.	10.84	27.67	KWV	Dixon, Calif.
		W8XF	Pontiac, Mich.			WOO	Ocean Gate, N. J.	10.77	28.04	GBP	Rugby, England
		W8XL	Cuyahoga Hts., Ohio	17.08	17.56	GBG	Rugby, England	10.68	28.09	WNB	Lawrenceville, N. J.
		W9XE	Marion, Ind.	16.33	18.37	WLC	Lawrenceville, N. J.	10.67	28.12	CEC	Santiago, Chile
		W1XG	Boston, Mass.	16.30	18.4	PCL	Kootwijk, Holland	10.63	28.2	PLR	Bandoeng, Java
		W2XAK	New York, N. Y.			WLD	Lawrenceville, N. J.	10.61	28.28	WEA	Rocky Point, N. Y.
		W2XF	New York, N. Y.	16.20	18.5	FZR	Saigon, Indo-China	10.578	28.36	FYB	Paris, France
		W2XR	Rocky Point, N. Y.	16.15	18.56	GBX	Rugby, England	10.55	28.44	WOK	Lawrenceville, N. J.
		W3XAD	Camden, N. J.	16.10	16.57	GBK	Bodmin, England	10.54	28.46	WLO	Lawrenceville, N. J.
42.20	7.10	W3XAY	Philadelphia, Pa.	16.06	18.68	NAA	Arlington, Va.	10.52	28.51	VK2ME	Sydney, Australia
41.80	7.17	W3XAY	Philadelphia, Pa.	16.04	18.71	KKP	Kauhuku, T. H.			VLK	Sydney, Australia
41.00	7.32	W1XW	Milton, Mass.	15.95	18.8	PLG	Bandoeng, Java	10.46	28.68	LSL	Buenos Aires, Argen.
		W2XV	Clifton, N. J.	15.86	18.91	FTK	St. Assise, France	10.41	28.8	PDK	Kootwijk, Holland
		W6XC	San Francisco, Calif.			CEC	Santiago, Chile	10.41	28.82	LSY	Buenos Aires, Argen.
		W8XAC	Lincoln Park, Mich.	15.76	19.03	JYT	Tokio, Japan			KES	Bolinas, Calif.
40.60	7.38	W2XV	Clifton, N. J.	15.69	19.12	FTK	St. Assise, France	10.40	28.85	KEZ	Bolinas, Calif.
40.10	7.48	W2XV	Clifton, N. J.	15.62	19.19	OCJ	Lima, Peru	10.39	28.87	KWZ	Dixon, Calif.
38.60	7.77	W2XV	Clifton, N. J.	15.49	19.36	J1AA	Tokio, Japan	10.36	28.96	GBX	Rugby, England
37.60	7.98	W2XV	Clifton, N. J.	15.42	19.46	KWO	Dixon, Calif.	10.35	28.96	PMN	Bandoeng, Java
37.10	8.09	W2XV	Clifton, N. J.	15.35	19.54	KWU	Dixon, Calif.	10.35	28.98	LSX	Buenos Aires, Argen.
35.80	8.38	W3XAY	Philadelphia, Pa.	15.34	19.55	W2XAD	Schenectady, N. Y.	10.33	29.04	ORK	Brussels, Belgium
35.60	8.43	W2XV	Clifton, N. J.	15.33	19.56	W2XAD	Schenectady, N. Y.	10.30	29.12	LSL	Buenos Aires, Argen.
34.60	8.67	W2XV	Clifton, N. J.	15.30	19.6	OXY	Lyngby, Denmark	10.29	29.15	DIQ	Nauen, Germany
		W3XAR	Haverford, Pa.			CPS	La Paz, Bolivia	10.22	29.35	PSH	Rio de Janeiro, Brazil
		W2XAC	Lincoln Park, Mich.	15.27	19.64	W2XE	Wayne, N. J.	10.15	29.54	DIS	Nauen, Germany
		W2XES	Englewood, N. J.	15.25	19.67	W1XAL	Boston, Mass.	10.14	29.58	OPM	Leopoldville, Belgian Congo
33.10	9.06	W2XV	Clifton, N. J.	15.24	19.68	FYA	Pontoise, (Paris) Fr.	10.10	29.7	EHY	Madrid, Spain
31.60	9.49	W2XV	Clifton, N. J.			RIM	Tashkent, U. S. S. R.	10.07	29.79	VRT	Hamilton, Bermuda
31.10	9.65	W2XV	Clifton, N. J.	15.21	19.72	W8XK	E. Pittsburgh, Pa.	10.05	29.83	SUV	Cairo, Egypt
30.20	9.93	W3XAY	Philadelphia, Pa.	15.20	19.74	DJB	Zeeseu, Germany	10.00	30.00	EAQ	Madrid, Spain
30.10	9.97	W2XV	Clifton, N. J.	15.14	19.81	GSF	Daventry, England	9.98	27.59	VLJ	Sydney, Australia
27.80	10.79	W6XD	Palo Alto, Cal.	15.12	19.83	HVJ	Vatican City, Italy	9.97	30.09	KAZ	Manila, P. I.
25.70	11.67	W2XBC	New Brunswick, N. J.	15.11	19.84	HVJ	Vatican City, Italy	9.95	30.15	GBU	Rugby, England
24.00	12.50	W6XQ	San Francisco, Calif.	15.04	19.94	RMK	Moscow, U. S. S. R.			GCU	Rugby, England
22.30	13.45	GBU	Rugby, England	15.00	19.99	CM6XJ	Central Tuinucu, Cuba	9.93	30.2	HJY	Bogota, Colombia
21.54	13.93	W8XK	Pittsburgh, Pa.	14.70	20.27	WKU	Rocky Point, N. Y.	9.89	30.3	LSA	Buenos Aires, Argen.
21.47	13.97	GSH	Daventry, England			W2XBJ	Rocky Point, N. Y.	9.87	30.4	J1AA	Tokio, Japan
21.46	13.98	W1XAL	Boston, Mass.	14.62	20.5	XDA	Mexico City, Mex.			WON	Lawrenceville, N. J.
21.42	14.0	W2XDJ	Deal, N. J.	14.56	20.6	HBJ	Pragins, Switzerland	9.86	30.43	EAQ	Madrid, Spain
21.41	14.01	WKK	Lawrenceville, N. J.	14.53	20.65	LSA	Buenos Aires, Argen.	9.83	30.52	IRM	Rome, Italy
21.40	14.02	WLO	Lawrenceville, N. J.			LSN	Buenos Aires, Argen.	9.80	30.6	GCW	Rugby, England
21.16	14.17	LSL	Buenos Aires, Argen.	14.50	20.69	YNA	Managua, Nicaragua	9.79	30.64	GBW	Rugby, England
21.13	14.19	LSM	Buenos Aires, Argen.			TGA	Guatemala City, C. A.	9.76	30.74	VK2ME	Sydney, Australia
21.08	14.23	PSA	Rio de Janeiro, Brazil			TRR	Cartago, Costa Rico			VLK	Sydney, Australia
21.06	14.24	KWN	Dixon, Calif.	14.48	20.7	GBW	Rugby, England	9.75	30.77	WOF	Lawrenceville, N. J.
		WKA	Lawrenceville, N. J.			WNC	Deal, N. J.			WNC	Deal, N. J.
21.02	14.27	LSN	Buenos Aires, Argen.	14.47	20.73	WMF	Lawrenceville, N. J.	9.71	30.9	GCA	Rugby, England
21.00	14.28	OKO	Podebrady, Czechoslovakia	14.15	21.17	KKZ	Bolinas, Calif.	9.675	31.0	T14NRH	Costa Rica, C. A.
20.73	14.47	LSY	Buenos Aires, Argen.	14.11	21.26	YV2AM	Maracibo, Venezuela	9.64	31.12	HSP2	Bangkok, Siam
20.68	14.5	FSR	Paris, France	13.87	21.63	WIY	Rocky Point, N. Y.	9.62	31.19	DGU	Nauen, Germany
		LSN	Buenos Aires, Argen.	13.78	21.77	KKW	Bolinas, Calif.	9.60	31.25	CT1AA	Lisbon, Portugal
20.67	14.54	PMB	Bandoeng, Java	13.75	21.82	CGA	Quebec, Canada			XETE	Mexico City, Mex.
20.38	14.72	GAA	Rugby, England	13.6	22.06	JYK	Tokio, Japan			LGN	Bergen, Norway
20.04	14.97	OPL	Leopoldville, Belgian Congo	13.58	22.09	GBB	Rugby, England			LQA	Buenos Aires, Argen.
		DHO	Nauen, Germany	13.50	22.48	VYQ	Maracay, Venezuela	9.595	31.27	HBL	Geneva, Switzerland
19.95	15.03	LSG	Buenos Aires, Argen.	13.48	22.26	WAJ	Rocky Point, N. Y.	9.59	31.28	W3XAU	Philadelphia, Pa.
		DIH	Nauen, Germany	13.40	22.38	WND	Deal, N. J.			VK2ME	Sydney, Australia
19.90	15.07	LSG	Buenos Aires, Argen.	13.39	22.4	WMA	Lawrenceville, N. J.			WEF	Rocky Point, N. Y.
19.85	15.11	WMI	Deal, N. J.	13.34	22.55	CGA	Quebec, Canada			WKJ	Rocky Point, N. Y.
19.83	15.12	FTD	St. Assise, France	13.09	22.93	J1AA	Tokio, Japan	9.585	31.3	GSC	Daventry, England
19.69	15.24	CEC	Santiago, Chile	12.83	23.32	CNR	Rabat, Morocco			VK3LR	Melbourne, Australia
19.54	15.25	IRW	Rome, Italy	12.85	23.35	W9XL	Anoka, Minn.	9.58	31.32	3WXAU	Philadelphia, Pa.
19.50	15.38	LSQ	Buenos Aires, Argen.			W2XO	Schenectady, N. Y.			W3XE	Philadelphia, Pa.
19.38	15.48	WOP	Ocean Gate, N. J.			W2XCU	Rocky Point, N. Y.	9.57	31.35	W1XAZ	Springfield, Mass.
		WKN	Lawrenceville, N. J.			HJC	Barranquilla, Colombia			SRI	Poznan, Poland
19.35	15.5	FTM	St. Assise, France	12.25	23.39	CNR	Rabat, Morocco			W8XK	E. Pittsburgh, Pa.
19.27	15.57	PPU	Rio de Janeiro, Brazil	12.80	23.45	IAC	Pisa, Italy	9.56	31.38	DJA	Zeeseu, Germany
19.22	15.61	WKF	Lawrenceville, N. J.	12.78	23.46	GBC	Rugby, England	9.53	31.48	W2XAF	Schenectady, N. Y.
19.24	15.59	DFA	Nauen, Germany	12.40	24.19	DAF	Norden, Germany	9			

Complete Equipment for More Enjoyable Battery Radio Reception

# Silvertone Dry "A" Battery

No Recharging — No Water — No Acids — No Bothers

Lowest Cost Per Hour!

Why Dry "A" Batteries are Better!

—Always ready to operate . . . no chance of "suffocating" or overloading as in the case of wet "A" batteries. No interruptions in service.

Silvertone Dry "A" batteries are built to the same high standards required for our famous, long life "B" batteries. Our guarantee insures the longest "hour per cent" operation of any battery on the market!

## Silvertone Dry "A" Battery

- Guaranteed for One Year on a Service Basis.
- Will operate any 2-volt radio with a current drain of 0.50 ampere, for 1000 hours or more.
- Replaces any 2-volt "A" battery including Air Cell type. Size, 13 1/4 x 8 x 10 1/2 in.
- Resistor included without extra charge . . . necessary for sets without voltage regulator or ballast tube.

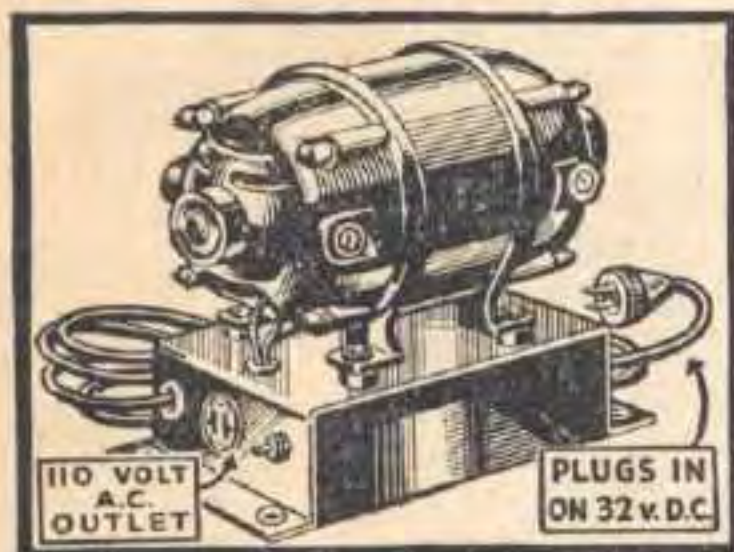
This battery has plenty of power to operate your radio a *full year* when used on an average of 2 to 3 hours a day. Just hook it up to your set and forget it. No servicing required. Recommended to replace Air Cell batteries for steadier, smoother year 'round flow of power over the whole period of service. *Will not replace a 6-volt storage battery.* Complete with resistor.



THROW AWAY YOUR RADIO "A" BATTERY WORRIES BY REPLACING WITH THIS NEW LONG LIFE DRY "A" SILVERTONE BATTERY.

## There's a Silvertone Product for Every Radio Purpose

### Farm Light Plant Owners!



Operate An  
A. C. Radio  
from 32 Volts

Supplies 110 volts, 60 cycle A. C. Draws less than 6 amperes at 100 watts output.

#### Operates A. C. Radios Drawing Not More than 100 Watts

The very latest type motor—dynamo converter which operates efficiently from your light plant and supplies steady, noiseless, balanced power for 110 volt A. C. radios. Gives you equal or smoother power for operating your radio than many localities served by central light plants, because it is not subject to changes in voltage or surging. Also, will operate household appliances, such as fans, mixers and sewing machines, using not more than 100 watts 60 cycle A. C.

Newest, improved construction with extra size noise filter, oilless ball bearings, and sealed brushes. Regular \$50.00 value! Fully guaranteed. Complete as shown, with 6-ft. cord and plug. Simple, easy to follow instructions. Size, 9 in. high, 9 1/4 in. long. 25 lbs., 4 oz.

In ordering refer to No. 5238

Same converter as above but for 150 watt output (Made to order and shipped from factory 10 days). Shipping weight 29 lbs. In ordering refer to No. 5241.

110 volts DC to 110 volts AC 60 cycle converter 100 watts. In ordering refer to No. 5244.

### Head Phones Make Foreign and Short Wave Tuning Easy!

#### Short Wave Fans

Locate distant stations with a set of sensitive head phones and then adjust program to proper volume.

—Highly polished all aluminum phones  
—unbreakable—  
Feather-weight.

"Dixie" Phones. An excellent moderate priced head set.

In ordering refer to No. 4908



### 32 to 180 Volt "B" Eliminator



—Replaces "B" Batteries; plugs into 32-volt socket.

—Uses less than 1/2 ampere.

Dynamotor-type converter. Provides all "B" voltages, up to 180 volts. Size, 3 1/4 x 5 3/4 x 7 1/2 in.

In ordering refer to No. 5226

### Dynamotor "B" Eliminator

The same style of unit that is used in many police squad cars. Powerful and efficient. Supplies 180-volts at 30 milliamperes; draws less than 2 amperes from the storage battery. Replaces noisy, worn-out vibrator style units. Guarantees smooth reception at 6 or 60 miles an hour. Motor mounted in rubber, absorbing shocks and vibration. Operates in any position. Compactly built, 3 3/4 x 5 1/4 x 7 1/2 inches.



In ordering refer to No. 5240

### "Master" 3000 Ohm Head Phones

Super sensitive. Commercial type. Large, permanent magnets; rubber ear caps; for best reception. In ordering refer to No. 4907

Famous "Brandes" Superior extra sensitive. 2000 ohms. In ordering refer to No. 4909

Some short wave and standard broadcast receivers have ear-phone jacks already installed—others require a special adapter so that earphones can be used if a jack is not provided. The earphones listed here have excellent sensitivity and are ideal for use for short wave tuning.

# • • MAKE SEARS STORE YOUR RADIO HEADQUARTERS • •

## World's Short Wave Stations—cont.

Mega-cycles	Meters	Call	LOCATION	Mega-cycles	Meters	Call	LOCATION	Mega-cycles	Meters	Call	LOCATION
9.31	32.22	GBC	Rugby, England	6.753	44.4	WHD	Deal, N. J.	6.06	49.5	W8XAL	Cincinnati, Ohio
9.30	32.26	CNR	Rabat, Morocco	6.75	44.41	WDA	Lawrenceville, N. J.			VQ7LO	Nairobi, Kenya
9.28	32.33	GCB	Rugby, England	6.68	44.91	DGK	Nauen, Germany			W3XAU	Philadelphia, Pa.
9.25	32.4	GBK	Bodmin, England	6.667	45	TGW	Guatemala City, Central America			OXY	Skamlebaek, Denmark
9.23	32.5	FLJ	Paris, France							W3XAV	Philadelphia, Pa.
9.17	32.72	WNA	Lawrenceville, N. J.			F8KR	Constantine, Algeria			CP5	La Paz, Bolivia
9.14	32.82	YVR	Maracay, Venezuela	6.66	45.05	HC2RL	Guayaquil, Ecuador	6.05	49.59	CMC1	Havana, Cuba
9.02	33.26	GCS	Rugby, England			TGW	Guatemala City, C. A.			GSA	Daventry, England
9.02	33.26	KEJ	Kaukuku, T. H.	6.65	45.1	HKM	Bogota, Colombia	6.04	49.67	VE9CF	Halifax, N. S., Can.
8.95	33.52	WEC	Rocky Point, N. Y.	6.62	45.31	IAC	Pisa, Italy			W1XAL	Boston, Mass.
8.93	33.59	WEC	Rocky Point, N. Y.	6.61	45.38	PRADO	Rio Bamba, Ecuador			W4XB	Miami Beach, Fla.
8.872	33.81	NPO	Cavite, P. I.	6.61	45.38	RW72	Moscow, U. S. S. R.			PK3AN	Sourabaya, Java
8.79	34.13	TIB	Cartago, Costa Rica	6.61	45.38	REN	Moscow, U. S. S. R.	6.03	49.75	W1XL	Boston, Mass.
8.69	34.35	W2XAC	Schenectady, N. Y.	6.60	45.45	F8KR	Constantine, Algeria	6.023	49.2	VE9CA	Calgary, Alta., Can.
8.68	34.56	GBC	Rugby, England	6.515	46.05	WOO	Ocean Gate, N. J.	6.02	49.83	XEW	Mexico City, Mex.
8.65	34.68	W4XG	Miami, Fla.	6.447	46.53	HJ1AB	Barranquilla, Col.	6.01	49.92	DJC	Zeesen, Germany
		W3XX	Washington, D. C.	6.425	46.69	VE9BY	London, Ont., Canada	6.005	49.96	COC	Havana, Cuba
		W3XE	Baltimore, Md.	6.425	46.69	W3XL	Bound Brook, N. J.			VE9DR	Montreal, Canada
8.65	34.68	VE9BY	London, Ont., Canada			W9XC	Anoka, Minn.			VE9CU	Calgary, Alta., Can.
		W2XCU	Rocky Point, N. Y.	6.38	47.02	HC1DR	Quito, Ecuador	6.00	50.0	FIGA	Tananarive, Madag.
		W8XAG	Dayton, Ohio			HJ5ABD	Cali, Colombia			EJ25	Barcelona, Spain
8.63	34.74	W2XDD	Ocean Gate, N. J.	6.335	47.35	VE9AP	Drummondville, Can.			RW59	Moscow, U. S. S. R.
8.55	35.09	WOO	Ocean Gate, N. J.	6.27	47.81	HKC	Bogota, Colombia			VQ7LO	Nairobi, Kenya, Af.
8.47	35.42	DAF	Norden, Germany	6.25	48.0	HJ3ABF	Bogota, Colombia			ZGE	Kuala Lumpur, Malay States
8.45	35.5	PRAG	Porto Alegre, Brazil			CN8MC	Casa Blanca, Morocco	5.969	50.26	HVJ	Vatican City, Italy
8.38	35.8	IAC	Pisa, Italy	6.243	48.05	HKD	Bogota, Colombia	5.94	50.5	TGX	Guatemala City, C. A.
8.19	36.63	PSK	Rio de Janeiro, Brazil	6.18	48.5	TGW	Guatemala City, C. A.	5.93	50.59	HJ4ABG	Medellin, Colombia
8.186	36.65	PRAG	Rio de Janeiro, Brazil	6.17	48.6	HJ3ABI	Bogota, Colombia	5.90	50.85	HKO	Medellin, Colombia
8.12	36.92	PLW	Bandoeng, Java			FTX	St. Assise, France	5.88	51.02	HJ2ABA	Tunja, Colombia
8.11	37.0	HCJB	Quito, Ecuador	6.167	48.65	XIF	Mexico City, Mex.	5.857	51.22	XDA	Mexico City, Mex.
8.055	37.33	CNR	Rabat, Morocco	6.15	48.78	YV3BC	Caracas, Venezuela	5.85	51.26	WOB	Lawrenceville, N. J.
7.88	38.07	J1AA	Tokio, Japan	6.147	48.80	VE9CL	Winnipeg, Canada	5.80	51.75	HJ1ABB	Barranquilla, Col.
7.83	38.3	PDU	Kootwijk, Holland	6.14	48.86	W8XK	Pittsburgh, Pa.	5.71	52.5	VE9CL	Winnipeg, Canada
7.797	38.47	HBP	Switzerland	6.13	48.94	YV11BMO	Caracas, Venezuela	5.692	52.7	FIQA	Tananarive, Madag.
7.77	38.6	FTF	St. Assise, France			YV3BC	Caracas, Venezuela	5.68	52.8	VK3LR	Melbourne, Australia
		PCK	Kootwijk, Holland	6.127	48.95	HJ4ABE	Bogota, Colombia	5.26	57.03	WGN	Rocky Point, N. Y.
7.612	39.41	X2GA	Nuevo Laredo, Mexico	6.125	48.98	VE9HX	Halifax, N. S., Canada	5.17	58.03	PMY	Bandoeng, Java
		HKF	Bogota, Colombia	6.122	49.0	ZTJ	Johannesburg, S. Africa	5.145	58.31	OK1MPT	Prague, Czechoslovakia
7.61	39.42	KWX	Dixon, Calif.	6.12	49.02	W2XE	Wayne, N. J.	5.07	59.08	WON	Lawrenceville, N. J.
7.56	39.65	KWY	Dixon, Calif.			VE9HK	Halifax, N. S., Can.	4.98	60.24	GBC	Rugby, England
7.556	39.70	HKF	Bogota, Colombia			YV1BC	Caracas, Venezuela	4.84	61.98	GDW	Rugby, England
7.52	39.89	KDK	Kauhuku, T. H.	6.112	49.08	YV1BC	Caracas, Venezuela	4.81	62.3	HKE	Bogota, Colombia
7.52	39.89	KKH	Kauhuku, T. H.	6.11	49.09	VE9HX	Halifax, N. S., Can.	4.795	62.56	W9XAM	Elgin, Ill.
7.47	40.16	HJB	Bogota, Colombia			VE9CG	Calgary Alt., Canada			VE9BY	London, Ont., Can.
7.444	40.3	HPE	Geneva, Switzerland			YUC	Calcutta, India			W3XZ	Washington, D. C.
7.40	40.55	HJ3ABD	Bogota, Colombia			YNA	Managua, Nicaragua	4.78	62.7	CGA	Quebec, Canada
		WEM	Rocky Point, N. Y.	6.10	49.18	W3XAL	Bound Brook, N. J.	4.75	63.16	WOO	Ocean Gate, N. J.
7.39	37.8	DOA	Doeberitz, Germany			W9XF	Chicago, Ill.	4.75	63.16	WKF	Lawrenceville, N. J.
7.22	41.55	HKE	Bogota, Colombia			VE9CF	Halifax, N. S., Can.	4.70	63.79	W1XAB	Portland, Me.
7.20	41.6	EASAB	Canary Islands	6.095	49.22	VE9GW	Bowmanville, Ont., Can.	4.51	66.5	YPN	Nassau, Bahamas
7.15	41.9	HJ4ABB	Manizales, Colombia	6.09	49.26	VE9BJ	St. John, N. Brun's k.	4.41	67.5	DOA	Doeberitz, Germany
7.14	42.02	HXX	Bogota, Colombia	6.085	49.3	CP5	La Paz, Bolivia	4.40	68.17	DFA	Nauen, Germany
6.99	42.92	LCL	Jeloy, Norway	6.08	49.34	W9XAA	Chicago, Ill.	4.32	69.44	G6RX	Rugby, England
		CT1AA	Lisbon, Portugal	6.074	49.39	YV5BMO	Maracaibo, Venezuela	4.273	70.2	RV15	Khabarovsk, Siberia, U. S. S. R.
6.977	43.0	EAR	Madrid, Spain	6.073	49.4	OXY	Skamlebaek, Denmark	4.13	72.63	DAF	Nordeish, Germany
6.94	43.23	WEB	Rocky Point, N. Y.	6.072	49.4	OER2	Vienna, Austria	4.116	72.8	WOO	Ocean Gate, N. J.
6.90	43.48	GDS	Rugby, England			YV2AM	Maracaibo, Venezuela	4.11	73.0	HCJB	Quito, Ecuador
6.88	43.6	LCL	Oslo, Norway	6.07	49.4	VE9CS	Vancouver, B. C., Can.	4.105	74.72	HAA	Arlington, Va.
6.86	43.73	KEL	Bolinas, Calif.	6.069	49.43	VE9CS	Vancouver, B. C.	3.75	80.0	ISRO	Rome, Italy
6.84	43.86	HAT2	Budaest, Hungary			JB	Johannesburg, S. Africa	3.75	80.0	CT1CT	Lisbon, Portugal
		CFA	Drummondville, Que., Canada	6.065	49.46	SAJ	Motola, Sweden			FGKR	Constantine, Algeria

## Municipal and State Police Stations (Alphabetically by Cities)

CALL	LOCATION	Freq.	CALL	LOCATION	Freq.	CALL	LOCATION	Freq.
KGZY	Aberdeen, Wash.	2414	WMDZ	Indianapolis, Ind.	2442	KGZO	Santa Barbara, Calif.	2414
WPDO	Akron, Ohio	2458	WPF6	Jacksonville, Fla.	2442	KGZT	Santa Cruz, Calif.	1674
WPGH	Albany, N. Y.	2414	KGPE	Kansas City, Mo.	2422	KGZY	San Bernardino, Calif.	1712
KGZX	Albuquerque, N. M.	2414	KGZH	Klamath Falls, Ore.	2382	KGZD	San Diego, Calif.	2490
WPED	Arlington, Mass.	1712	WPF0	Knoxville, Tenn.	2474	KGPD	San Francisco, Calif.	2466
WPDY	Atlanta, Ga.	2414	WPDT	Kokomo, Ind.	2490	KGPM	San Jose, Calif.	1674
WPDN	Auburn, N. Y.	2382	WPDF	Lansing, Mich.	2442	KGPF	Santa Fe, N. Mex.	2414
KGPS	Bakersfield, Calif.	2414	KGHG	Las Vegas, Nev.	2474	KGPA	Seattle, Wash.	2414
WPFH	Baltimore, Md.	2414	WPET	Lexington, Ky.	1706	KGPK	Sioux City, Ia.	2466
WPCA	Bay City, Mich.	2466	KGZU	Lincoln, Neb.	2490	WPEH	Somerville, Mass.	1712
KGPI	Beaumont, Tex.	1712	KGHZ	Little Rock, Ark.	2406	WPGN	South Bend, Ind.	2490
WPEE	Brooklyn, N. Y.	2450	KGPL	Los Angeles, Calif.	1712	WPGH	Spokane, Wash.	2414
KSW	Berkeley, Calif.	1658	WPDF	Louisville, Ky.	2442	WPFQ	Swarthmore, Pa.	2474
WPGI	Binghamton, N. Y.	2442	KGZW	Lubbock, Tex.	2458	WPEA	Syracuse, N. Y.	2382
WPFM	Birmingham, Ala.	2382	WPEC	Memphis, Tenn.	2466	KGZN	Tacoma, Wash.	2414
WMJ	Buffalo, N. Y.	2422	WPFZ	Miami, Fla.	2442	WRDQ	Toledo, Ohio	2474
KG0Z	Cedar Rapids, Ia.	2466	WPKD	Milwaukee, Wis.	2450	KGZC	Topeka, Kans.	2422
KGZF	Chanute, Kans.	2450	KGPP	Minneapolis, Minn.	2430	WPDA	Tulare, Calif.	2414
WPDV	Charlotte, N. C.	2458	WPGP	Muncie, Ind.	2442	KGPO	Tulsa, Okla.	2450
WPD8	Chicago, Ill.	1712	WPF0	Muskegon, Mich.	2442	WPGJ	Utica, N. Y.	2414
WPD0	Chicago, Ill.	1712	WPGS	Mineola, N. Y.	2490	KGPG	Vallejo, Calif.	2422
WPKD	Chicago, Ill.	1712	WPEK	New Orleans, La.	2430	KGZQ	Waco, Tex.	1712
WKDU	Cincinnati, O.	1706	WPFK	Newton, Mass.	1712	WPDW	Washington, D. C.	2422
WPF0	Clarksburg, W. Va.	2490	WPEF	New York, N. Y.	2450	KGZI	Wichita Falls, Tex.	2458
WRBH	Cleveland, O.	2458	WPEG	New York, N. Y.	2450	KGZJ	Wichita, Kans.	2450
WGZP	Coffeyville, Kans.	2450	KGPH	Oklahoma City, Okla.	2450	WPEM	Woonsocket, R. I.	2466
WPF1	Columbus, Ga.	2414	KGPI	Omaha, Neb.	2466	WPDG	Youngstown, Ohio	2458
WPDJ	Columbus, Ohio	2430	WPFX	Palm Beach, Fla.	2442			
KPKK	Cranston, R. I.	2466	KGJK	Palo Alto, Calif.	1674			
KYP	Dallas, Tex.	1712	KGJX	Pasadena, Calif.	1712			
KGPN	Davenport, Ia.	2466	WPFV	Pawtucket, R. I.	2466	KGHO	Des Moines, Ia.	1682
WPD8	Dayton, Ohio	2430	WPDF	Philadelphia, Pa.	2474	WMP	Framingham, Mass.	1666
KGPI	Denver, Colo.	2442	KGZJ	Phoenix, Ariz.	2430	WPEL	Middleboro, Mass.	1666
WCK	Belle Isle (Det.) Mich.	2414	WPDF	Pittsburgh, Pa.	1712	WPEW	Northampton, Mass.	1666
WPDX	Detroit, Mich.	2414	WPG8	Port Huron, Mich.	2466	WPEV	Portable, Mass.	1666
KGZG	Des Moines, Ia.	2466	WPFU	Portland, Me.	2422	WRDS	E. Lansing, Mich.	1666
WPEI	E. Providence, R. I.	1712	WPGF	Providence, R. I.	1712	WPGC	S. Schenectady, N. Y.	1658
KGZM	El Paso, Tex.	2414	KGPP	Portland, Ore.	2442	WPGA	Findlay, Ohio	1682
WPFN	Fairhaven, Mass.	1712	WPGI	Portsmouth, Ohio	2430	WBA	Harrisburg, Pa.	190
WPDF	Flint, Mich.	2466	WPDH	Richmond, Ind.	2442	WBR	Butler, Pa.	190
WPDZ	Ft. Wayne, Ind.	2490	WPF0	Reading, Pa.	2442	WDX	Wyoming, Pa.	190
KGZA	Fresno, Calif.	2414	WPDF	Rochester, N. Y.	2422	WJL	Greenburg, Pa.	190
WPEB	Grand Rapids, Mich.	2442	WPGD	Rockford, Ill.	2458	WMB	W. Reading, Pa.	190
WRDR	Grosse Point, Mich.	2414	WPE8	Saginaw, Mich.	2442	KGZE	San Antonio, Tex.	1658
WPFK	Hackensack, N. J.	2430	KGPC	St. Louis, Mo.	1706	KGHA		
WMD	Highland Park, Mich.	2414	WPGS	St. Paul, Minn.	2430	KGHB	Highway Portable &	
KGPO	Honolulu, T. H.	2450	WGZR	Salem, Ore.	2442	KGHC	Mobile, Seattle, Wash.	2490
WPG0	Huntington, N. Y.	2490	KGPI	Salt Lake City, Utah	2406	KGHD		2490



## Best Short Wave Stations

Numerically According to Wave Length

Meters	Mega-Cycles	Call	Europe	Meters	Mega-Cycles	Call	South America
13.97	21.47	GSH	Daventry, England, 6:00 to 7:30 a.m.	49.50	6.06	W3XAD	Philadelphia, Pa., 7 p. m. to midnight.
16.30	18.40	PCK	Kootwijk, Holland, about 7:00 a. m.	49.50	6.06	W8XAL	Cincinnati, Ohio, 6:30 to 10:30 a. m., 1:30 to 3:30 p. m., 6 p. m. to 12 midnight.
16.88	17.77	PHI	Huizen, Holland, MWF 7:30-9:30 a.m., Sat. & Sun. 7:30-10:30 a.m.	49.67	6.04	W1XAL	Boston, Mass., 6 to 7 p. m.
19.68	15.25	DJB	Pontoise, France, 7 to 10 a. m.	49.67	6.04	W4XB	Miami, Florida, Sat., 6 to 11 p. m.
19.73	15.20	DJB	Berlin, Germany, 12:30 to 2 a. m., 6:35 to 9:45 a. m.				
19.82	15.13	GSF	Daventry, England, 6-7:30-8:40 to 11 a. m.				
19.84	15.11	HVJ	Vatican City, Daily 5 to 5:15 a. m. Sat. 10-10:30 a. m.	19.19	15.62	OCJ	Lima, Peru, about 2 p. m., irregular.
25.00	12.00	RNE	Moscow, U. S. S. R., Sat. & Sun. Tests 9 & 10 a. m.	25.73	11.66	PPQ	Rio de Janeiro, Brazil, 7 to 9 p. m., irregular.
25.20	11.90		Pontoise, France, 10:15 a. m. to 1:15 p. m., 2 to 5 p. m.	27.35	10.97	OCI	Lima, Peru, 8 to 10 p. m., evenings, irregular.
25.28	11.86	GSE	Daventry, England, 8:45 a. m. to 12:45 p. m.	28.98	10.35	LSX	Buenos Aires, Argentina, Thurs. and Sats., 8 to 10 p. m.
25.40	11.81	ZRO	Rome, Italy, 11:30 a. m.-12:30 p. m.-1:15-6 p. m.	30.30	9.90	LSN	Buenos Aires, Argentina, 6 p. m. to 6 a. m., irregular.
25.51	11.76	DJD	Berlin, Germany, 12:45-4:30 p. m.-9-11:30 p. m.	36.65	8.19	PSK	Rio de Janeiro, Brazil, 6 to 7:30 p. m.
25.53	11.75	GSD	Daventry, England, 12:15-2:15 a. m.-1-8 p. m.	40.55	7.40	HJ3, ABD	Bogota, Colombia, 7:30 to 11 p. m.
25.63	11.71		Pontoise, France, 2-11 p. m.	41.55	7.22	HKE	Bogota, Colombia, Mon. 6 to 7 p. m., Tues., Fri., 8 to 9 p. m.
29.04	10.33	ORK	Brussels, Belgium, 1 to 5 p. m., irregular.	41.60	7.20	HJ4AB	Manizales, Colombia, 8 to 10 p. m.
30.40	9.87	EAQ	Madrid, Spain, Daily 5:15 to 7:00 p. m., Sat. 12 noon to 2, Sat. & Sun. 7 to 7:30 I. B. S.	42.86	7.00	HJ1ABE	Cartagena, Colombia, Mon., 10 to 11 p. m., Wed., 8 to 10 p. m., Sun., 9 to 11 a. m.
30.52	9.83	IRM	Rome, Italy, Afternoons, irregular.	45.00	6.67	HC2RL	Guayaquil, Ecuador, Sun., 5:45 to 8 p. m., Tues., 9:15 to 11:15 p. m.
31.25	9.60	CTIAA	Lisbon, Portugal, Tues. & Fridays, 4:30 to 7 p. m.	45.31	6.62		Prado, Riobamba, Ecuador, Thurs., 9 to 11 p. m.
31.27	9.59	HBL	Geneva, Switzerland, Sat. 5:30 to 6:15 p. m., Sun. same hours, irregular.	46.30	6.48	HJ5ABD	Cali, Colombia, 7 to 10 p. m.
31.30	9.58	GSC	Daventry, England, 6 to 8 p. m.	46.51	6.45	HJ1ABB	Barranquilla, Colombia, 6 to 10 p. m.
31.38	9.57	DJA	Berlin, Germany, 6:45 to 9:45 a. m.-5 to 8 p. m.	48.00	6.25	HJ3ABF	Bogota, Colombia, 7 to 11 p. m.
31.55	9.51	GSE	Daventry, England, 12:15 to 2:15 a. m.-11 a. m. to 12:45 p. m.-1 to 5:30 p. m.	48.78	6.15	YV3BC	Caracas, Venezuela, 10:30 a. m. to 1:30 p. m., 4:30 to 9:30 p. m. to 1 p. m., 5:15 to 10 p. m.
38.47	7.80	HBP	Geneva, Switzerland, Sat. 5:30 to 6:15 p. m.-Sun. same hours, irregular.	49.08	6.11	YV1BC	Caracas, Venezuela, 10:30 a. m. to 1 p. m., 5:15 to 10 p. m.
42.92	6.99	LCL	Jeloy, Norway, Relays Oslo, 11 a. m. to 6 p. m.	49.20	6.10	HJ1ABD	Cartagena, Colombia, 11:30 a. m. to 12:30 p. m., 7 to 9 p. m.
43.86	6.84	HAS	Budapest, Hungary, 3 to 5:30 p. m.	49.39	6.07	YV5BMO	Maracaibo, Venezuela, 7:30 to 10:30 p. m.
45.38	6.61	REN	Moscow, U. S. S. R., 2 to 6 p. m.	49.60	6.05	HJ3ABI	Bogota, Colombia, 8 to 10 p. m., irregular.
49.40	6.07	OXY	Skamleback, Denmark, 2 to 6:30 p. m.	50.08	5.99	YV4BSG	Caracas, Venezuela, 8:30 to 10:30 p. m.
49.83	6.02	DJC	Berlin, Germany, 12:50 to 4:30-9 to 11:30 p. m.	50.25	5.97	HJ2ABC	Cucuta, Colombia, 11 a. m. to 12 noon, 6 to 9 p. m.
50.00	6.00	RV59	Moscow, U. S. S. R., 2 to 6 p. m.	50.42	5.95	HJ4ABE	Medallin, Colombia, Mon., 7 to 11 p. m., Tues., Thurs., Sat., 6:15 to 8 p. m., Wed., Fri., 7:30 to 10:30 p. m.
60.30	4.97	G6RX	Rugby, England, 8 to 10 p. m., irregular.	51.49	5.88	HJ2ABA	Tunja, Colombia, 1 to 2 p. m., 7:30 to 10 p. m.
69.44	4.32	G6RX	Rugby, England, 7 to 10 p. m.	73.00	4.00	HCJB	Quito, Ecuador, 7:30 to 9:45 p. m., except Monday.
<b>Asia</b>				<b>Mexico and West Indies</b>			
16.50	18.18	PMC	Bandoeng, Java, 3:10 to 9:20 a. m.	25.50	11.79	XDM	Mexico City, Mexico, 1 to 6 p. m., irregular.
19.03	15.76	JIAA	Kemikawa, Japan, 6 to 7 a. m.	26.00	11.54	XAM	Merida, Yucatan, Mexico, 1 to 6 p. m., irregular.
20.03	14.98	KAY	Manila, Philippine Islands, 5 to 7 a. m.-7 to 8 p. m.	31.25	9.60	XETE	Mexico City, Mexico, 6 to 10 p. m.
30.40	9.87	JIAA	Kemikawa, Japan, 4 to 7 a. m.	47.50	6.32	HIZ	Santo Domingo, R.D., Daily 4:40 to 5:40 p. m., Sat., 11 p. m. to 12:40 a. m.
48.92	6.13	ZGE	Kuala Lumpur, Malaya States, Sun., Tues., Fri., 6:40 to 8:40 a. m.	47.80	6.23	HIHA	Dominican Rep., Daily, 12:10 to 1:40 p. m., 7:40 to 9:40 p. m., Sun., 1:40 to 4:40 p. m., 7:40 to 9:40 p. m.
49.10	6.11	YUC	Calcutta, India, 9:30 a. m. to 12 noon, Sat. 11:45 p. m. to 3 a. m.	49.50	6.06	HIX	Santo Domingo, R. D., Tues., & Fri., 8:10 to 10:10 p. m., Sun., 8:40 to 10:40 a. m., 2:40 to 4:40 p. m.
<b>Africa</b>				<b>Oceania</b>			
23.38	12.83	CNR	Rabat, Morocco, Sundays 7:30 to 9 a. m.	31.28	9.59	VK2ME	Sydney, Australia, Sun., 1 to 3 a. m., 5 to 9 a. m., 11:30 a. m. to 1:30 p. m.
29.58	10.14	OPM	Leopoldville, Belgian Congo, 9 to 11 a. m.-3 to 6 p. m.	31.30	9.58	VK3LR	Melbourne, Australia, Daily except Sun., 3:30 to 7:45 a. m.
37.33	8.05	CNR	Rabat, Morocco, Sunday 2:30 to 5 p. m.	31.55	9.51	VK3ME	Melbourne, Australia, Wed., 5 to 6:30 a. m., Sat., 5 to 7 a. m.
49.00	6.12		Johannesburg, 4 to 6 a. m.-8 to 10:30 a. m.-11 a. m. to 3:40 p. m.	49.96	6.01	COG	Havana, Cuba, 4 to 6 p. m., 8 to 10 p. m.
49.50	6.06	VQ7LO	Nairobi, Kenya Colony, 11 a. m. to 2 p. m.	<b>Canada</b>			
<b>United States</b>				25.60	11.72	CJRX	Winnipeg, Manitoba, Daily 6 to 10:30 p. m., Sun., 9 to 10 p. m.
16.87	17.78	W3XAL	Bound Brook, N. J., 7 a. m. to 1 p. m.	49.10	6.11	VE9HX	Halifax, N. S., 8:30 to 11:30 a. m., 5 to 10 p. m.
19.56	15.34	W2XAD	Schenectady, N. Y., M. W. F. 1:30 to 2:30 p. m., Sun. 1 to 3 p. m.	49.22	6.09	VE9GW	Bowmanville, Ont., Mon., Tues., Wed., 1 to 10 p. m., Thurs., 2 to 11 p. m., Fri., Sat., 6 a. m. to 11 p. m., Sun., 10 a. m. to 7 p. m.
19.64	15.27	W2XE	Wayne, N. J., 10 a. m. to 12 noon.	49.29	6.09	VE9BJ	St. John, N. B., 5 to 10 p. m., irregular.
19.72	15.21	W8XK	Pittsburgh, Pa., 9 a. m. to 3:15 p. m.	49.42	6.07	VE9CS	Vancouver, B. C., Fri., 12:30 to 1:45 a. m., Sun., 12 noon to midnight.
25.27	11.87	W8XK	Pittsburgh, Pa., 3:30 to 9 p. m.	49.96	6.01	VE9DN	Drummondville, Que., Sat., after 10:30 p. m.
25.36	11.83	W2XE	Wayne, N. J., 2 to 4 p. m.				
31.28	9.59	W3XAU	Philadelphia, Pa., 11 a. m. to 5 p. m., irregular.				
31.36	9.57	W1XAZ	Boston, Mass., 6 a. m. to midnight.				
31.49	9.53	W2XAF	Schenectady, N. Y., 6:45 to 10 p. m.				
46.69	6.43	W3XL	Bound Brook, N. J., Fri. and Sat. 6 to 12 midnight.				
48.86	6.14	W8XK	Pittsburgh, Pa., 3:30 p. m. to 1 a. m.				
49.02	6.12	W2XE	Wayne, N. J., 5 to 10 p. m.				
49.18	6.10	W3XAL	Bound Brook, N. J., Mon., Wed., Sat., 4 p. m. to 12 midnight.				
49.18	6.10	W9XF	Chicago, Ill., 3:30 to 7:30 p. m., 8:30 p. m. to 1:30 a. m.				
49.34	6.08	W9XAA	Chicago, Ill., 1 to 6 p. m., Sundays; week nights, irregular.				

## Ten Rules for Better Reception

Continued from page 10

advisable to tune above 31 meters for best results. 10—Have your radio set in perfect condition. Short wave reception makes this very essential otherwise results will be poor. Have the tubes tested often. Check the batteries, if a battery radio is used. Check the antenna system periodically. Avoid corrosion of the aerial wires and loose connections in the lead-in and window strips. A little care and regular checking will pay big dividends in short wave thrills.

## More Natural Static on Short Waves than on Standard Reception?

The answer is NO. True, there is more noise noticeable on the short wave or high frequency bands. But it is not due to static. The causes are many. In the main, they are classified as electrical interference or "man made static". What causes man made static? Any electrical apparatus that radiates energy. Some of the more common and well-known culprits are door-bell buzzers, electric fans, elevator motors, vacuum cleaners, refrigerators, defective light bulbs and wiring, ultra-violet and X-Ray lamps, electric signs, neon signs, etc. With a short wave radio set, a new kind of noise is heard. It is a loud roar in the speaker which begins slowly, reaches its height and dies down gradually. It is caused by the ignition system of a passing automobile. If the car is in front of the building with the motor running, the roar will continue until the motor is stopped. This interference is not heard on regular broadcast receivers or when the all-wave set is tuned to the broadcast band. The reason is that automobile ignition is high frequency interference, received only when the radio can be tuned to high frequencies, which correspond to short waves.

## INTERNATIONAL MORSE CODE

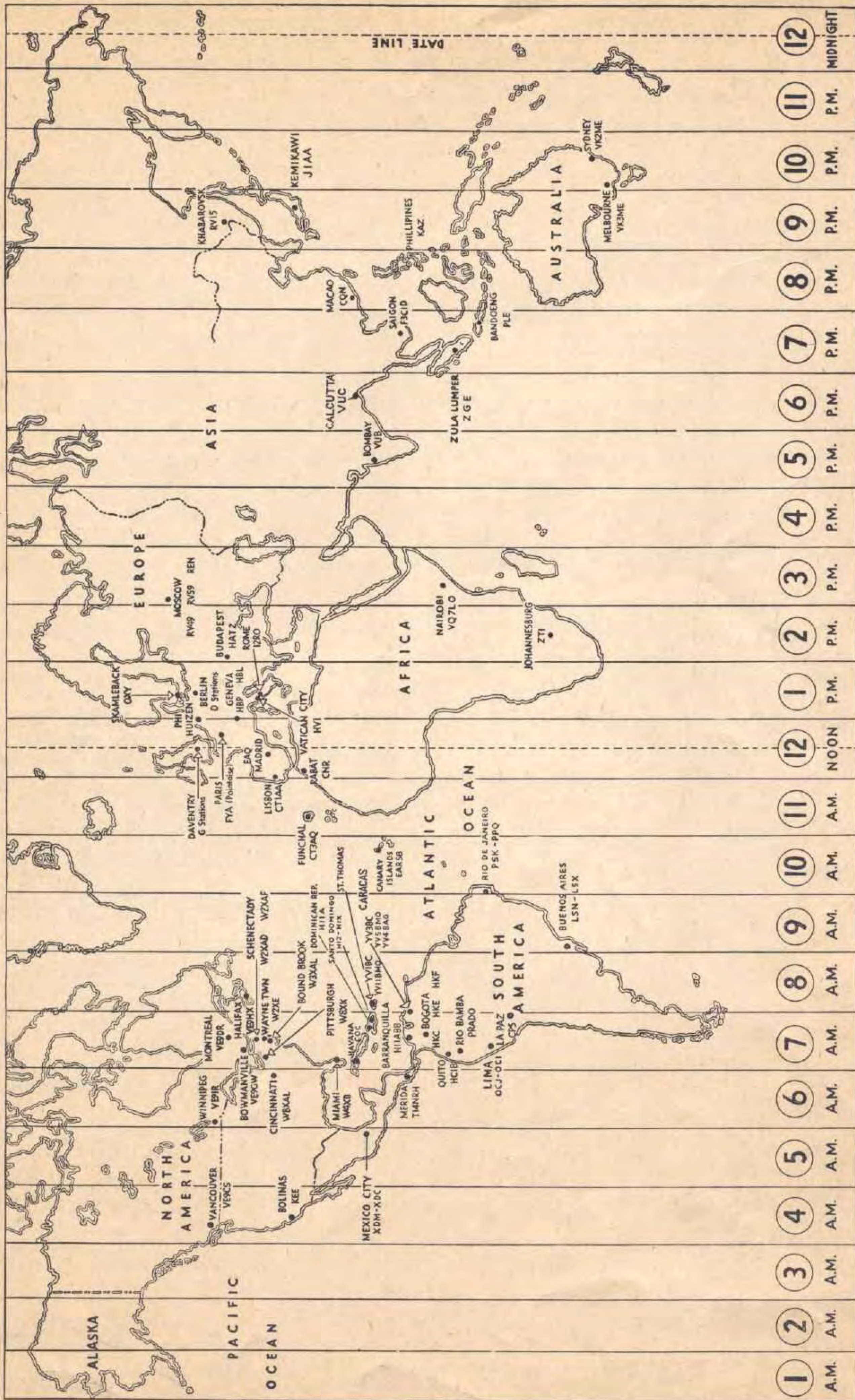
A short wave radio will receive a great deal of code transmission. A little practise will enable the listener to understand and enjoy this type of broadcast.

1. A dash is equal to three dots.
2. The space between parts of the same letter is equal to one dot.
3. The space between two letters is equal to three dots.
4. The space between two words is equal to five dots.

A	— — —	N	— • —	1	• — — — —
B	— • — • —	O	— — — —	2	• — — — —
C	— • — • —	P	— • — • —	3	• — — — —
D	— • — • —	Q	— • — — —	4	• — — — —
E	• — — —	R	• — • — —	5	• — — — —
F	— • — • —	S	• — • — —	6	• — — — —
G	— — — • —	T	— — — —	7	• — — — —
H	• — • — —	U	• — — — —	8	• — — — —
I	• — — —	V	• — • — —	9	• — — — —
J	— • — — —	W	— — — —	0	— — — — —
K	— • — • —	X	— • — • —		
L	— • — • —	Y	— • — — —		
M	— — — —	Z	— — — • —		

Period	• — — — —
Semicolon	• — — — —
Comma	• — — — —
Colon	• — — — —
Interrogation	• — — — —
Exclamation point	• — — — —
Apostrophe	• — — — —
Hyphen	• — — — —
Bar indicating fraction	• — — — —
Parenthesis	• — — — —
Inverted commas	• — — — —
Underline	• — — — —
Double dash	• — — — —
Distress Call	• — — — —
Attention call	• — — — —
General inquiry call	• — — — —
From (de)	• — — — —
Invitation to transmit (go ahead)	• — — — —
Warning—high power	• — — — —
Question (please repeat after)	• — — — —
interrupting long messages	• — — — —
Wait	• — — — —
Break (Bk.) (double dash)	• — — — —
Understand	• — — — —
Error	• — — — —
Received (O. K.)	• — — — —
Position report (to precede position messages)	• — — — —
End of each message (cross)	• — — — —
Transmission finished (end of work) (conclusion of correspondence)	• — — — —

# Time Zones and Map of the World's Countries (All Time is Standard Time)



The numerals shown on the map indicate the time in each place in the world when the day is ending at the date line at the right of the page. For each zone we cross toward the east (right side of page) time is reckoned one hour later or faster; for each zone going west time is one hour earlier or slower. To de-

termine the time of any station east of you it is necessary to add the difference to your time (as shown between the zone numerals). To determine the time of any station west of you it is necessary to subtract the difference from your own time. See comprehensive world time table on page 6.

# For Homes Without Electricity

## WORLD WIDE RECEPTION



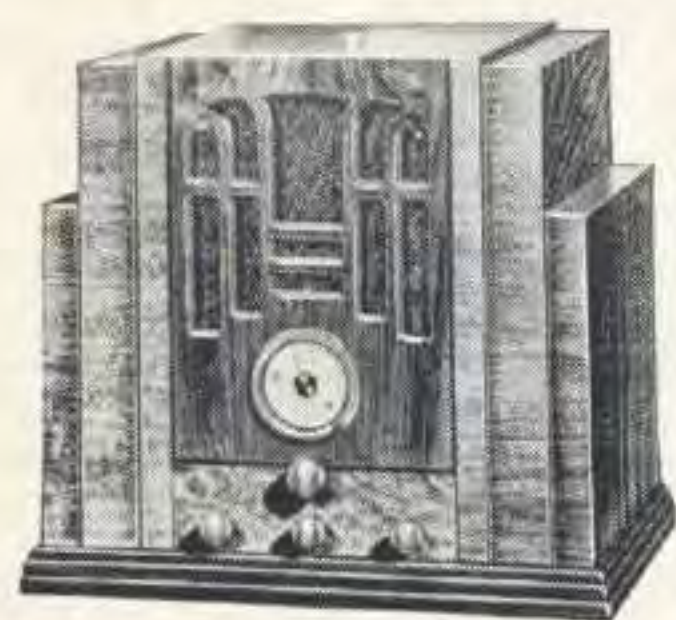
**With New Battery Radios**  
**Using the New DRY "A" BATTERY**  
**That Eliminates Re-charging and Attention**



Height 36 3/4 inches

**MODEL 1854—10-Tube All Wave Battery Console**

The finest battery operated radio receiver that money can buy. Powerful 10-tube chassis. All Wave Reception. Tuning range 18 to 545 meters, inclusive. Brings in Foreign and American Programs. Automatic Volume Control—airplane type dial—tone control and giant high fidelity loudspeaker. Equipped with fully guaranteed Silvertone tubes, "B" Batteries and One Year Dry "A" Battery.



Height 36 3/4 inches

**MODEL 1850**  
**6-Tube American and Foreign Reception**

The most popular battery table model radio of its type. All batteries are contained in the cabinet. Receives programs from foreign countries as well as standard American broadcasts. Airplane type dial—tone control and dynamic speaker. Cabinet styled in Century of Progress motif. Equipped with fully guaranteed Silvertone tubes—"B" Batteries and Dry "A" Battery.

Sears Easy Payment Plan puts a new radio within the reach of all. Ask about it!

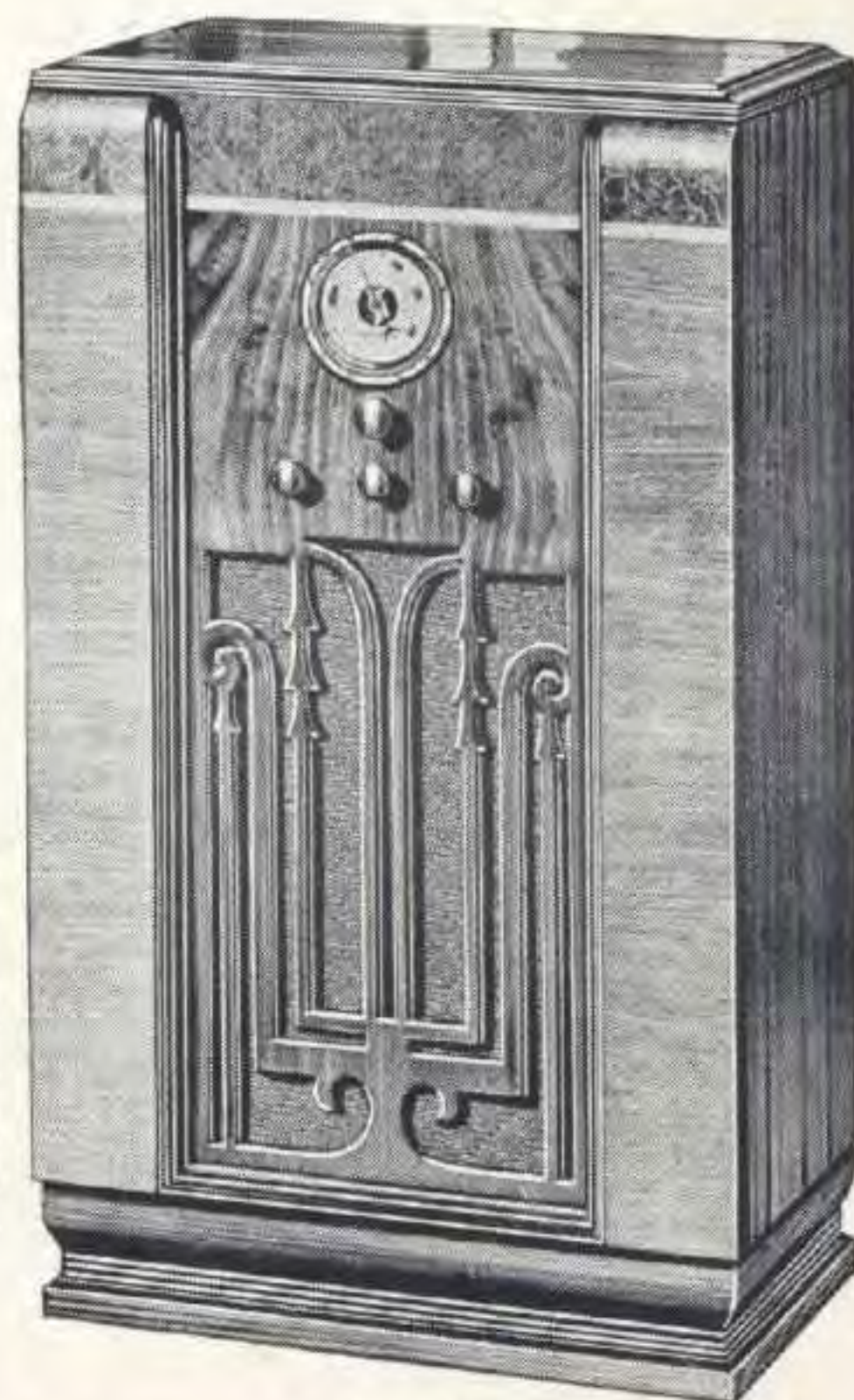


Height 36 inches

**MODEL 1851—6-Tube American and Foreign Reception**

A remarkable value! Tunes in foreign short wave stations and brings in American programs equal to battery sets selling for much more. A champion in its price class. Equipped with Silvertone fully guaranteed tubes "B" Batteries and Dry "A" Battery.

Battery operated radio receivers not having the foreign broadcast feature are available for standard broadcast reception in both table and console models.



Height 37 inches

**MODEL 1857—8-Tube All Wave Battery Console**

An exquisite moderne radio cabinet with all-wave American and Foreign 8-tube receiver installed. Tuning range 18 to 545 meters, inclusive. Reproduction equal to electric powered radios. Equipped with Silvertone tubes, "B" Batteries and One Year Dry "A" Battery.

# SILVERTONE RADIO

Sold Exclusively by SEARS, ROEBUCK AND CO.

Precision Built—Performance Tested

# SILVERTONE *Radio Tubes*

are Better yet they  
**COST LESS!** . . . .



## Accurate, Honest, Tube Testing Service

All Sears Roebuck stores are equipped with the latest and most modern tube testing equipment with which they can determine the efficiency of your radio tubes. Radio tubes wear out gradually and although your set may seem to play all right, its efficiency is greatly lowered, if all the tubes are not in tip top condition. Bring them to your nearest Sears Retail store for test if they are six months or more old. There is no charge or obligation for this service.

Silvertone tubes are better than most radio tubes on the market today. They are equal to the finest tube manufactured regardless of price—yet they sell for less than comparable quality tubes. Why? Our tremendous buying power—low selling costs and direct from factory to user distribution.

### Silvertone Tubes Improve Any Radio

For lifelike reproduction of programs and to reach out for those distant stations, day in and day out radio tubes must have stamina.

### Silvertone Tubes are Long Life Tubes

Inferior tubes lose efficiency after being in operation a short time. They lack stamina. The result is poor reproduction and loss of power in your radio.

### Silvertone Tubes Save You Money

When you buy Silvertone you save in two ways. First—You save on the initial cost. Silvertone tubes sell for much less than tubes of comparable quality and construction. Second—Their long life quality makes replacement occur less often and assures faithful reproduction and power from your radio for a longer time.

# FREE



### ASK FOR A FREE SAFETY TUBE CARRIER

Many people hesitate to bring their tubes in for test as they have no convenient way to carry them. Stop at your nearest Sears Retail store and get one of the Safety Tube Carriers illustrated above. There is no charge for the carrier and it will provide a safe, convenient way in which to carry your radio tubes when you bring them to Sears for testing.

# SILVERTONE

**SOLD EXCLUSIVELY BY**  
**SEARS, ROEBUCK AND CO.**  
**RETAIL STORES**

F97531

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# Silvertone Tubes fit All Standard Radio Sets