



The RCA
Radiotron
Broadcast
Station
Directory

The RCA Radiotron Broadcast Station DIRECTORY

AMERICAN BROADCASTING STATIONS

Call Letters	TRANSMITTER LOCATION	Power	Kilo-cycles	Meters	Dial Setting
WAAD	Cincinnati, Ohio Divides time with WSRQ	25	1420	211.1	
WAAF	Chicago, Ill.	500	920	325.9	
WAAM	Newark, N. J. Divides time with WGCP-WODA	500	1250	239.9	
WAAT	Jersey City, N. J.	300	1070	280.2	
WAAW	Omaha, Nebr.	500	660	454.3	
WABC	W. of Cross Bay Blvd., Queens Co., L. I., N. Y.	5000	860	348.6	
WABF	Kingston, Pa. Divides time with WRAX	250	1440	208.2	
WABI	Bangor, Me.	100	1200	249.9	
WABO	See WHEC				
WABZ	New Orleans, La. Divides time with WJBW	100	1200	249.9	
WADC	Akron, Ohio	1000	1320	227.1	
WAFD	Detroit, Mich.	100	1500	199.9	
WAGM	Royal Oak, Mich. Divides time with WBMH	50	1310	228.9	
WAIU	Columbus, Ohio	5000	640	468.5	
WALK	Willow Grove, Pa. Divides time with WHBW-WPSW	50	1500	199.9	
WAPI	Birmingham, Ala. Divides time with KVOO	5000	1140	263.0	
WASH	Grand Rapids, Mich. Divides time with WOOD	250	1270	236.1	
WBAA	Lafayette, Ind. Divides time with WCMA-WKBF	500	1400	214.2	
WBAK	Harrisburg, Pa. Divides time with WMBS-WCAH	500	1430	209.7	
WBAL	Glen Morris, Md. Divides time with WTIC	10000	1060	282.8	

RCA Radiotrons—the preference of radio experts

The Importance of a High Quality Vacuum Tube



RCA Radiotrons are primarily instruments of precision—the most sensitive ever manufactured and sold on a large scale. They might well be called electrical eyes; for they “see” waves to which human eyes are unresponsive—the waves which carry radio entertainment to the home.

The amount of energy received by a radio set may be only a few millionths of a millionth of that broadcast, but Radiotrons respond to it and amplify it millions, even billions, of times. Despite its sensitivity this extraordinary artificial sense organ is so sturdy that it withstands ordinary usage and it is made in large quantities, so that its price is low.

One of the functions of a Radiotron is to control the flight of billions of electrons—invisible bits of electricity, so small that they bear the same size-relation to atoms that a football bears to a large dirigible balloon. A stream of electrons speeding from filament to plate is instantly and automatically influenced by the waves from the broadcasting station which affect the grid. What we hear is a duplicate of what is broadcast.

A few years ago high-capacity storage batteries were required for satisfactory heating of the filament. Radiotrons of today contain improved filaments for operation from inexpensive trickle-charge storage batteries,

Improve your radio set with RCA Radiotrons

Call Letters	TRANSMITTER LOCATION	Power	Kilo-cycles	Meters	Dial Setting
WBAO	Decatur, Ill.	100	1120	267.7	
WEAP	Fort Worth, Tex. Divides time with KTHS	10000	800	374.8	
WBAW	Nashville, Tenn. Divides time with WLAC	5000	1490	201.2	
WBAX	Wilkes-Barre, Pa. Divides time with WJBU	100	1210	247.8	
WBBC	Brooklyn, N. Y. Divides with WSGH-WSDA- WCGU-WLTH	500	1400	214.2	
WBBL	Richmond, Va.	100	1370	218.8	
WBBM	Glenview, Ill. Divides time with KFAB	10000	770	389.4	
WJBT					
WBBR	Rossville, N. Y. Divides time with WHAZ- WHAP-WEVD	1000	1300	230.6	
WBBW	Norfolk, Va.	100	1200	249.9	
WBBY	Charleston, S. C.	75	1200	249.9	
WBBZ	Ponca City, Okla.	100	1200	249.9	
WBCM	Bay City, Mich.	500	1410	212.6	
WBET	Medford, Mass. Divides time with WMAF	500	1360	220.4	
WBIS	See WNAC				
WBMH	Detroit, Mich. Divides time with WAGM	100	1310	228.9	
WBMS	Fort Lee, N. J. Divides time with WNJ-WBS- WKBO	250	1450	206.8	
WBNY	New York, N. Y. Divides time with WCDA- WKBQ-WMSG	250	1350	222.1	
WBOQ	See WABC				
WBOW	Terre Haute, Ind.	100	1310	228.9	
WBRC	Birmingham, Ala.	500	930	322.4	
WBRE	Wilkes-Barre, Pa.	100	1310	228.9	
WBRL	Tilton, N. H.	500	1430	209.7	
WBSO	Wellesley Hills, Mass.	250	780	384.4	
WBT	Charlotte, N. C.	5000	1080	277.6	
WBZ	East Springfield, Mass. Divides time with WBZA	15000	99	302.8	
WBZA	Boston, Mass. Divides time with WBZ	500	990	302.8	
WCAC	Storrs, Conn. Divides time with WTIC	250	600	499.7	

When experts agree on RCA Radiotrons—why take chances?

compact dry cells, and, more economical, AC supply from the lighting mains.

These improvements result from ceaseless research conducted to make Radiotrons more and more efficient. More electrons are emitted from the improved Radiotron filaments in spite of the fact that less power is required to heat them.

An air or gas molecule is immense compared with an electron; it would stop an electron in its flight from the filament to the plate. Even the finest vacuum pumps will not remove all air molecules. Research showed how obstructing air molecules could be swept out of the bulb—a triumph of the laboratories that stand behind the Radio Corporation of America.

Research has made Radiotrons what they are today—made them not only sense-organs of radio but made them so inexpensive that they can be sold over the counter like scores of other products much more easily manufactured.

The manufacture of Radiotrons is exacting. Each Radiotron must pass through many stages, and at each stage it must be rigorously inspected and tested. If it fails to measure up to RCA standards it is rejected. For this reason every Radiotron leaves the factory a faultless and matchless radio detector or amplifier—a supreme achievement of research, engineering, and manufacturing.

That is why the leading makers of radio sets sold on a quality basis use Radiotrons throughout and specify them for replacement.

— [c] —

RCA Radiotrons—the standard equipment in fine radio sets of leading manufacturers

