

# ANTIQUE RADIO CLASSIFIED

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A.R.C. — THE NATIONAL PUBLICATION FOR BUYERS AND SELLERS  
OF OLD RADIOS AND RELATED ITEMS — PUBLISHED MONTHLY

## ANTIQUE RADIO CLASSIFIED

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1/2 H	5 1/4 x 7 1/2	3 5/16 x 4 3/4	3 5/16 x 4 3/4	3 5/16 x 4 3/4	146.00	389.00	675.00*	1175.00**	37.00†
1/2 V	12 7/16 x 3 9/16	7 3/4 x 2 1/4	7 3/4 x 2 1/4	7 3/4 x 2 1/4	146.00	389.00	675.00*	1175.00**	37.00†
1/4	5 1/4 x 3 9/16	3 5/16 x 2 1/4	3 5/16 x 2 1/4	3 5/16 x 2 1/4	74.00	197.00	342.00*	595.00	19.00†
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# ANTIQUE RADIO CLASSIFIED



## EDITOR'S COMMENTS

It's time to celebrate, not only the holiday season, but also the big news — our expanded Web site is up! Already the feedback is positive to the new features — searchable auction prices and classified ads. As the 20th century draws to a close, we can now look forward to serving the radio-collecting community well into the next millennium with this new technology.

A number of you have chosen to move over exclusively to the new medium. Others want only the magazine; still others opt for both. Is there competition here between the two media? Will the new way swallow up the old? We think not.

Instead, the Internet is an opportunity to broaden perspectives — more people have faster access to answers to their questions, and international barriers have broken down. At the same time, the traditional interpersonal activities, such as club meets and events, as well as exchanges through the magazine, continue to be enjoyed. It's the best of two worlds. What a great way to step from the old into the new century!

In keeping with the "Age of the Internet," we no doubt will offer more Internet-related articles in the future. This month Dick Desjarlais continues with Part 5 of his WebTV adventures. Now he is able to explore hundreds of antique radio Web sites because he has learned how to search the Web. Those of you who have joined him on WebTV can follow along with him on this journey.

In addition, George Kaczowka offers an account of his experience surfing the expanded A.R.C. Web site. We thought it would be a good idea to give George, a veteran Web designer and user, a preview of the site for evaluation. We're pleased that his response is positive, although he does suggest some improvements. And the A.R.C. editorial staff has put together a summary of what visitors now find on the expanded site.

Such historic times lend themselves to a history article, and fortunately, we had one on hand. Ed Ripley has written a history of the AM broadcasting band, tracing its evolution over the years. He tells the story of well-known stations and the changes in technology and regulation that affected them. For anyone who remembers White's *Radio Log*, this is a must-read.

It may also be a first to have a "couple contribution" in the pages of A.R.C. We were delighted to discover in our files a Christmas photo contributed by Irene Ripley that seemed to fit neatly into husband Ed's article. Perhaps this is another sign of what's to come in our field — more participation by "radio wives."

Added to Ed's look at the past is Ray Bintliff's look at the future. The article was prompted by Mark Hewitt's letter expressing concern that the world of radio that he knows and loves will be obliterated by digital radio. Ray talks about current digital radio development and offers comfort about the survival of analog technology.

With a name like "Dilco," a follow-up is inevitable. A.R.C. loves feedback that generates follow-ups. When an article results in feedback — even a seemingly far-out idea — we try to pull the information together in a coherent way. In this case, Dick Desjarlais, who wrote

the original article in the October 1999 issue, did the job. The result is that we often learn something quite unexpected, such as the fact that Dilco was in the tube manufacturing business.

*Photo Review* this month suggests that the print version of A.R.C., like the Internet, can also suggest a wider radio-collecting universe. Represented are the U. S., Canada, Austria, and England. Variety too is evident — a "cube" and a "moon" radio, an exposed-tube radio and an enclosed horn speaker.

Jerry Wieland's restoration article tells how to preserve an original cone speaker, even if the field coil is beyond repair. He describes how to convert it to a permanent magnet speaker.

Two auction reports keep us abreast of auction prices. Rod Mills reports on the auction of a portion of his own collection — 500 items totalling \$15,000. The obvious highlight was the Atwater Kent breadboard Model 10 selling at \$1,045. But, a first must have been the \$577 paid for a near-new Hickok tube tester, proving again that condition counts.

The Houston Vintage Radio Association (HVRA) continues to host outstanding events. In this auction, the Zenith 5S373 console, selling at \$1,300, would normally have been the highlight. However, it was overshadowed by the Philco "predicta No. 4730 "Continental" TV, selling at \$1,700.

Chuck Schwark reviews Ray Bintliff's *Philco Condensers and More*, an updated version of Ray's familiar *Philco Bakelite Block Condensers*. Chuck says that the book is excellent and should be a constant companion for restorers of vintage Philco radios.

*Radio Miscellanea* features feedback to articles, plus Web-related suggestions. Though Shenandoah sounds as if it should be in Virginia, after placing it in Nebraska in the October issue, we have finally placed it correctly in Iowa. And we have received welcome empathy for our recent Web-related implementation woes, as well as high praise for our expanded site.

**Coming Radio Events.** Over 30 events will take place in the month of December. In addition, our "Mark Your Calendar" section lists 30 events for the year 2000. Old radio collecting will apparently be alive and well in the new century. Try to attend a meet in your area — perhaps you'll find the right radio for your winter project.

Happy holidays and happy collecting from all of the *Antique Radio Classified* team — John, Dorothy, Cindy, Tammy, Bobby, Malaika, Ray and Dave!

John V. Terrey, Editor

## ON THE COVER

The illustration on our cover is from a 1920s postcard purchased for \$2 at a general antique show. We did not have space for the greeting, "I'm 'standing by' to wish you a Merry Christmas," or for the label, "Whitney-Made, Worcester, Mass." I suggest you keep your eyes open for the boxes of postcards that show up at these events, and be sure to thumb through them — you never know what might be there to enhance your collection.



# VINTAGE BROADCASTING

## Evolution of the American AM Band A Brief History

BY ED RIPLEY

The following article seems appropriate for the last issue of the century, since it traces the history of AM-band radio, which has been so much a part of our radio listening pleasure for decades. As we look toward the inevitable development of digital radio, the subject of Ray Bintliff's supplementary article, we're happy to reflect on an aspect of radio's glorious 20th century. (Editor)

Ever wonder how the AM band got to be the way it is, and what it was like back in the early days? Today, in the United States, we have well over 4000 AM stations, operating on 116 frequencies, spaced 10 kHz apart. A good radio can separate, say 1260 from 1270, without any trouble. However, it wasn't always that way, and the early broadcast band went through much upheaval and change before arriving at what we're familiar with today.

One has to remember that radio broadcasting for entertainment evolved from a medium that was generally being used in a service capacity.

The early "wireless" was largely being used for sending messages, mostly in code. Ship communication and wireless telegraphy were the order of the day on the spectrum we now know as the AM band.

### EARLY REGULATIONS

When the first pioneer broadcasting stations went on the air in the early 1920s, the Department of Commerce regulated the radio frequencies. So-called "entertainment" stations were allowed to operate on a frequency of 360 meters (roughly 833 kHz). A second frequency of 485 meters (approx. 690 kHz) was set aside for broadcasting crop reports and weather services. Neither the transmitting equipment nor the receivers were capable of operating in a narrow 10 kHz bandwidth, and the early entertainment stations all had to share the same space.

There was some variation within the band, as

### Large Stations

Listed in Order of Wave Lengths

Wave Length Meters	Call	Wave Length Meters	Call	Wave Length Meters	Call
233	EFOX	319	WCR	410	GHCS
248	WBBG	322	WHAS	410	CKGD
248	WEW	323	KOA	411	WHB
263	KFMO	325.9	WSAI	411	WDAP
263	WGAQ	325.9	WBH	417	WCGO
266	WCBK	330	KFAE	420	CNRR
266	KFPF	330	CFX	420	CKCK
266	WBCN	337	WEZ	423	WLAV
268	KPPT	337	KNX	423	KPO
270	KDPM	341	KFKX	429	WSB
270	KOV	341	KSAC	430	CKAC
270	WBFB	341	CNRM	430	CFAC
270	KFAU	341	CHVC	435	CNRO
273	KFGH	345	WLS	437	CKAC
273	WBBR	345	WCHD	440	CNRC
273	WEH	350	KJHS	440	WJO
273	WEBJ	360	KOH	440	CFPCN
273	WFBH	360	WBT	440	CFGP
273	KFKB	360	KWH	441	WOS
273	WRW	360	WCAL	448	WJG
273	WMAK	360	WEAO	448	WMAO
275	KOV	360	WEAY	450	CNRR
275	WHAD	360	WGI	450	CNRE
278	WJJD	360	WHIA	450	CKY
278	WLB	360	WHN	450	CRCE
278	WAAW	360	WJAR	455	WJZ
278	WCAU	360	WMAF	455	KFOA
278	WRHG	360	WOI	462	WCEA
278	KFAF	360	WOO	469	WRC
280	WEBP	360	WRL	469	WCAP
280	WABL	360	WSY	469	KFI
280	WPAB	370	CYB	472.9	WFAA
280	WHK	370	WGN	480	CVL
280	WTAY	370	WEHH	480	WOC
280	KLS	375	KTHS	480	WHAA
280.2	WNAC	380	WHAZ	492	WEAF
286	WTAS	380	WGT	492	KGW
286	WKBP	390	WTAM	492.9	WMC
286	WJAS	390	WEAR	509	WIP
286	WPAL	395.5	WDAL	509	KLS
286	WAAW	395	WFI	509.9	WOO
286	KFKB	395	WDAK	516	WWJ
288.5	WRGO	395	KHJ	516	WCK
293.9	WBAV	400	PWX	522.3	WOAW
303	WEEL	400	WHAS	526	WHQ
309	WFIW	400	CNRT	528.5	WNYC
309	KDKA	400	CNRS	535.4	KNY
312	KGON	400	CFCA	535.4	WCEE
315.6	KFDN	405	WGR	549.1	KSD
316	WAIG	405	KTW	549.1	KPUO
316	WGBS	405	WJY		



The cover of a 1925 radio station directory.

A list of major stations from the 1925 "Radio Station Directory and Trouble Finder."

# International RADIO LOG

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Price Twenty-five cents

The cover of the 1926 "International Radio Log."

## INTERNATIONAL RADIO LOG

### ALABAMA

Call Letter	City	State	1st Dial	2nd Dial	3rd Dial	Wave Length	Watts
WAPI	Auburn	Ala.				248	1,000
WBRC	Birmingham	Ala.				248	50
WIBZ	Montgomery	Ala.				230.6	10

### ALASKA

Call Letter	City	State	1st Dial	2nd Dial	3rd Dial	Wave Length	Watts
KFIU	Juneau	Alaska				226	10

### ARIZONA

Call Letter	City	State	1st Dial	2nd Dial	3rd Dial	Wave Length	Watts
KFXV	Flagstaff	Ariz.				205.4	50
KFAD	Phoenix	Ariz.				272.6	100
KFCB	Phoenix	Ariz.				238	100

### ARKANSAS

Call Letter	City	State	1st Dial	2nd Dial	3rd Dial	Wave Length	Watts
KUOA	Fayetteville	Ark.				299.8	750
KTHS	Hot Springs	Ark.	51	50	60	374.8	750

A portion of 1926 radio station listings from the "International Radio Log." Note the spaces to log the various positions where the station was located on an old 3-dial receiver.

stations would sometimes shift their positions a bit when interference became excessive. This meant that listeners would sometimes have to search for their favorite station, and with primitive receiving equipment it could be a challenge. Local stations would take turns or share time on the same frequency. Interference from distant stations was less of a problem in the earliest days because the crystal sets and other primitive receivers weren't all that sensitive. As more sophisticated receiving sets came into wide use, however, the problem of nighttime "skywave" became readily apparent.

### EXPANDING THE BROADCAST BAND

What had started out in 1920-1921 as a handful of stations — notably KDKA, Pittsburgh; WJZ, Newark; WWJ, Detroit; and a few others — very quickly became a crowd. A second frequency was added by Commerce Secretary Herbert Hoover in 1922, allowing stations to use 400 meters (approximately 750 kHz). 360 meters was dubbed "Class A" and the new band was known as "Class B," the latter having been envisioned as a band for "better quality" stations. Certain technical requirements had to be met for Class B transmission, and a maximum power of 1000 watts was authorized. Class A stations, in those days, varied in power from as little as 5 watts to as many as 500.

According to Thomas H. White, in his Internet article "Building the Broadcast Band," the number of stations authorized to operate on 360 meters reached 524 by March, 1923.

Once again, the Commerce Department acted to expand the broadcast band, this time assigning all of the space from 550 to 1350 kHz for AM broadcasting. Frequencies were spaced 10 kHz apart, and stations would still be divided into Class A, with a maximum of 500 watts, and Class B with a top operating power of 1000 watts.

Under this plan, none of the stations operating on 360 meters would be forced to change, and could stay on the frequency as "Class C" stations, if they wished. It was hoped that most would voluntarily switch to one of the less congested frequencies.

The band expansion helped relieve the congestion, of course, but with more than 600 stations on the air by the mid-1920s and with the vastly improved receiving equipment, the situation was hardly any better, especially at night. In 1927 the Federal Radio Commission (FRC) was formed to be a "traffic cop" for the burgeoning radio broadcasting industry. The standard broadcast band was expanded again, this time from 550 to 1500 kHz.

(Continued on following page)

(Evolution of the American AM Band, continued)

## SHARING FREQUENCIES AND PAIRING STATIONS

The FRC had the monumental task of sorting through the "tower of babble," reassigning frequencies and pairing stations to share band space. Many of the early stations were not happy with their new assignments, and in some of the largest cities as many as five stations would share a frequency. In fact, the last of the shared time operations were recently eliminated when three Chicago stations on 1240 kHz were finally combined into one. Those stations — WCRW, WEDC and WSBC — had shared space on the same channel since the 1920s.

Another method of controlling the interference on the AM band was the assigning of "daytime only" radio stations. These stations were allowed to operate only during the sunrise to sunset hours, which of course varied throughout the year. The obvious reason for this type of restriction was the band itself. The so-called "skywave" activity, produced by the ionospheric layer present in the upper atmosphere, causes signals to be deflected back to Earth at night, increasing the amount of potential coverage (not to mention interference) by hundreds or even thousands of miles.

A few of the daytime stations are quite old, and have been operating on that basis since the 1920s. WEW in St. Louis on 770 kHz is just such an example. In recent years, the rules have been relaxed somewhat, and some former daytimers have been able to expand to pre-sunrise hours, meaning that they can get some kind of signal on the air by at least 6:00 A.M. Similarly, post-sunset operation offers daytime stations extended evening operation, and for many of them it means they can operate round-the-clock with reduced power.

### BAND DIVISION

In the 1930s, further refinements were made to AM broadcasting. The Federal Radio Commission became the Federal Communications Commission (FCC), with more authority and greater international cooperation, primarily with Canada and Mexico. By then, the band had become divided into three major frequency categories, Clear Channel, Regional and Local. The "clears" were further subdivided into 1A and 1B groups.

A 1A clear could operate at full power, day and night up to 50,000 watts, and was usually the only station on a given frequency, except, perhaps, for a few low-power daytime stations which may have been licensed to operate in a distant part of the country. Familiar examples of 1A clears are WFAN (formerly WNBC), New York; WLS, Chicago; KFI, Los Angeles; WHO Des Moines; and WCCO Minneapolis-St. Paul.

An article such as this would be remiss if it didn't mention WLW, the 1A clear channel station in Cincinnati, operated by pioneer receiver manufacturer Powel Crosley. Much has been written about WLW (See A.R.C. November 1992), so we will not elaborate too much about it here, except to say it was America's one great experiment with super power on AM.

WLW was given special temporary authority to operate on its clear channel of 700 kHz with a



Probably the most famous and most enduring of the published radio station directories was "White's Radio Log." Pictured here is an issue from the mid-1930s.

power of 500,000 watts, an incredible feat for its time. In the mid-1930s this powerhouse was easily heard throughout North America and much of the world by night. Even by day, it was calculated that its ground wave signal reached eastward to Virginia, south to Georgia, west to Iowa, and north well into Canada. Crosley billed it as "The Nation's Station," and kept it running on super power until 1939, when the FCC finally decided that the experiment was over and WLW returned to 50,000 watts.

The station simply caused too much interference to stations on adjacent frequencies, especially 690 kHz, a Canadian clear channel then occupied by CFRB, Toronto. A friend of mine who grew up in Hannibal, Missouri, in the 1930s claimed that one rainy night, he heard WLW coming through the gutters and downspouts of his home, without benefit of a radio, such was the intensity of its signal. In the 1960s, there was a revival of interest in super-power broadcasting, but in the end the FCC rejected the idea. By then, the need for such high-powered stations was virtually nonexistent.

1B clear channel stations could also have up to 50,000 watts, but shared the frequency with a similar station in another part of the U. S. Two present-day examples of 1B sharing are WTOP in Washington, DC, and KSTP in St. Paul, Minnesota, both operating on the same frequency with maximum power, but directionalized at night so their signals do not adversely interfere with one another. Another example is WSAI (once WCKY)



in Cincinnati and station KFBC in Sacramento which co-operate as 50,000 watters on 1530 kHz.

Regional or Class III stations were licensed to coexist on given frequencies, but with maximum power of 1000 watts, and later raised to 5000 watts. An example of a regional channel is 570 kHz where such stalwarts as WMCA, New York; WSYR, Syracuse; WNAX, Yankton, SD; KLAC, Los Angeles; and KVI, Seattle, operate, along with about two dozen other stations. Another example is 1250 kHz where WTAE, Pittsburgh; WDAE, Tampa-St. Petersburg; WEMP, Milwaukee; KTMS, Santa Barbara, California; and WDVA in Danville, Virginia, broadcast along with 60 other stations.

### DIRECTIONAL ANTENNA STATIONS

What made the coexistence of so many stations possible was the directional antenna system, which, in turn, was made possible by the development of the "vertical radiator" tower in the early 1930s. AM radio waves travel both by ground and by air. These new antenna systems were more effective for transmitting ground wave signals, which was an advantage in the daytime, but cut down on the "skywave" interference at night. They also made possible the directional antenna

array, allowing signals to be "phased" and sent in certain directions, rather than a circular pattern.

If you have ever seen an AM station that had a multiple number of towers in a row or in a box pattern, you were witnessing a directional antenna. Prior to the 1930s, stations used a horizontal or "flat top" antenna similar to the one pictured on the cover of the 1925 *Radio Station Directory* (photo, p. 4).

Stations began to utilize directional arrays in the late 1930s. WFLA in Tampa, Florida, was one of the first, if not the very first commercial AM station in the United States to utilize a vertical directional antenna. It was a 3-tower system on the shore of Tampa Bay. In more recent years the station moved the array to a new site several miles away with additional towers and tower height.

### LOCAL BROADCAST FREQUENCIES

Still another class of broadcast frequency is the "local." Six frequencies on the AM band were assigned by the FCC for this service. They were originally 1200, 1210, 1310, 1370, 1420 and 1500. Maximum operating power was 100 watts, day and night. Primarily, stations on these channels were designed to service their local city of license, and many of them were in smaller towns.

However, more than a few big city stations were "locals" which posed a big restriction, even back then. Today, two examples of local channel stations in large cities are KYPA (formerly KGFJ), Los Angeles and WALR, Atlanta. The latter has operated under a variety of call letters over the years including WATL, WAKE, and WIGO.

Maximum power for the "locals" was later raised to 250 watts. In the late 1950s, another raise gave these stations 1000 watts by day. Finally, in the 1980s, the FCC allowed the Class IV locals to operate at a maximum 1000 watts day and night. In most instances these stations were, and still are, nondirectional.

Today, there are approximately 165 stations operating on each of the six local channels, making the interference level very intense. Even with 1000 watts, these stations, for the most part, are only effective to about 25 or 30 miles by day and as little as 10 to 15 miles at night. The six local channels today are 1230, 1240, 1340, 1400, 1450 and 1490.

### FREQUENCY SHIFTS — 1940-1980s

Many of the stations listed in old radio logs were operating on different frequencies from where they broadcast today. In part, this is because of the big frequency shift of 1941. As a result

### UNITED STATES AND CANADIAN BROADCASTING STATIONS OF 100 WATT POWER AND OVER ARRANGED BY KILOCYCLES AND WAVE LENGTHS

Note: Letters C, C\* and N following location of stations as listed below indicates National associations: N, National Bdrctg. Co., Inc.; C and C\* Columbia Bdrctg. System. \* Basic stations.

540—555.0 CJRM Winnipeg, Man. 1000	620—483.6 KQW Portland, Ore. N 1000 KTAR Phoenix, Ariz. N 1000 WFLA Clearwater, Fla. N 1000 WHJB Greensburg, Pa. 250 WLBZ Bangor, Me. C 500 WSUN St. Pet.'s, Fla. N 1000 WTMJ Milwaukee, Wis. N 1000	750—399.8 KGU Honolulu, Hawaii N 2500 KFI Detroit, Mich. F 5000
555—541.5 CFNB Frederick, N.E. 500 KFUD Clayton, Mo. 500 KFYE Newark, N.J. N 1000 KOC Corvallis, Ore. 1000 KED St. Louis, Mo. 500 KTSO Saultanville, Tex. C 1000 WDEV Waterbury, Vt. 500 WGR Buffalo, N.Y. C 1000 WKBO Cincinnati, O. C 1000 WSVA Harrisonburg, Va. 500	630—475.9 CFYC Chatham, Ont. 100 CFQC Charlottetown, P.E.I. 1000 CJBC Winnipeg, Man. 500 CKOV Kelowna, B.C. 100 KFRU Columbia, Mo. 500 KOPX Pierre, S.D. 200 WAIM Anderson, S.C. 1000 WGBP Evansville, Ind. 500 WJAL Washington, D.C. N 500 WPRO Providence, R.I. 250	760—394.5 KXA Seattle, Wash. 250 WVW St. Louis, Mo. 1000 WJZ New York, N.Y. F 5000
560—535.4 KFDM Beaumont, Tex. 500 LDC Deuver, Colo. C 1000 KBP San Francisco, Calif. 1000 KTO Springfield, Mo. 500 WFIL Philadelphia, Pa. N 1000 WIND Gary, Ind. 1000 WIS Columbia, S.C. N 1000 WNOX Knoxville, Tenn. C 1000 WQAM Miami, Fla. C 1000	640—468.5 KFI Los Angeles, Calif. N 5000 WJL Columbus, Ohio 500 WOI Ames, Iowa 5000	770—389.4 KLAN Lincoln, Nebr. C 10000 WBBM Chicago, Ill. 5000
570—526.0 KGEO Wichita Falls, Tex. C 250 LMTX Long Angeles, Calif. 1000 KVI Tacoma, Wash. C 1000 WKBN Youngstown, O. C 500 WMCA New York, N.Y. C 1000 WNAZ Yankton, S.D. C 1000 WSTU Columbus, Ohio 1000 WSYR West Syracuse, N.Y. 1000 WNNC Asheville, N.C. N 1000	650—461.3 KFCE Seattle, Wash. N 2500 WSM Nashville, Tenn. C 500	780—384.4 CHWK Chilliwack, B.C. 100 CKSO Sudbury, Ontario 1000 GKY Windsor, Ont. 5000 KEHE Los Angeles, Calif. 1000 KELW Burbank, Calif. 500 KFYD Brookings, S.D. 1000 KFQD Anchorage, Alaska 250 KQHL Billings, Mont. N 1000 WLAN Providence, R.I. C* 1000 WMC Memphis, Tenn. N 1000 WTAR Norfolk, Va. N 1000
580—516.9 CHRO Quebec, Que. 100 CKCL Toronto, Ont. 100 CKUA Edmonton, Alta. 500 KFSO Fresno, Calif. 500 KSAC Manhattan, Kans. 500 WCHS Charleston, W. Va. 500 WDBO Orlando, Fla. C 1000 WIBW Topeka, Kan. C 1000 WILL Urbana, Ill. 1000 WTAQ Worcester, Mass. N 1000	660—454.3 WAAW Omaha, Nebr. 500 WEAF New York, N.Y. N 5000	790—379.5 KGO San Francisco, Cal. N 7500 WGY Schenectady, N.Y. N 5000
590—508.2 KHQ Spokane, Wash. N 1000 WEE Boston, Mass. C* 1000 WDBO Kalamazoo, Mich. C 250 WOM Omaha, Nebr. N 5000	670—447.5 WMAQ Chicago, Ill. N 5000	800—374.8 WBAF Ft. Worth, Tex. N 5000 WELW Dallas, Texas. N 5000 WTBO Omaha, Neb., Md. 100
600—499.7 CFOF Montreal, Que. N 400 CJRW Vancouver, B.C. 500 CJCV Windsor, Ont. 500 KFSD San Diego, Calif. N 1000 WCAO Baltimore, Md. C* 500 WICD Bridgeport, Ct. C 500 WICD Radio Sparta, Iowa N 1000 WREO Memphis, Tenn. C 1000	680—440.9 KFQO St. Joseph, Mo. 5000 KPO San Francisco, Cal. N 2500 WFTF Raleigh, N.C. C 1000	810—370.2 WCCO Minn'ap'olis, Minn. C 5000 WYFO New York, N.Y. F 1000
	690—434.5 CFJC Toronto, Ont. C 1000 CJCF Calgary, Alta. 1000	820—365.6 WHAS Louisville, Ky. C* 5000
	700—428.3 WLW Cincinnati, Ohio N 50000	830—361.2 KOA Denver, Colo. N 50000 WED Reading, Pa. 1000 WEDH E. Lansing, Mich. C 1000 WRUF Gainesville, Fla. 5000
	710—422.3 KIRO Seattle, Wash. 1000 KMPC Beverly Hills, Calif. 5000 WOB Newark, N.J. 5000	840—356.9 CFQC Saskatoon, Sask. N 1000 CRCT Toronto, Ont. N 5000
	720—416.4 WGN Chicago, Ill. 50000	850—352.7 KIEV Glendale, Calif. 250 WESG Elmira, N.Y. 1000 WELR E. Lansing, Mich. 1000 WWL New Orleans, La. 1000
	730—410.7 CJFL London, Ont. 1000 CFJA Edmonton, Alta. 1000 CKAC Montreal, Que. C 5000 CKPR Fort. William, Ont. 1000	860—348.6 WABC-WBOQ N.Y.C. C* 50000

Part of the radio station list by frequencies from "White's Radio Log" for December 1935.

(Continued on following page)

*(Evolution of the American AM Band, continued)*

of treaty agreements with the U. S., Canada, Mexico, and parts of the Caribbean, further realignment took place just before World War II. Lower band stations (540-750 kHz) largely stayed put, but mid- and upper-band stations shifted frequencies. For instance, clear-channel WCCO in Minneapolis-St. Paul went from 810 to its present 830 kHz. Similarly, WLS in Chicago went from 870 to 890, and so on.

Many of the upper band AM stations made a 30 kHz shift. A typical example is WDCW, (the former WFBL) in Syracuse, New York, a station I remember from my own childhood. It shifted from 1360 to 1390 kHz, where it remains today. Also, during this same period, the AM band was expanded to 1600 kHz, allowing for 10 new clear channel and regional frequencies.

During the 1960s, broadcasters began to argue for expanded use of the 1A clear channels. They reasoned that there was no longer a necessity for a station to serve most of the United States. With the proliferation of both AM and FM stations, virtually every part of the country could listen to stations broadcasting from their own

## Christmas Billboard

CONTRIBUTED BY IRENE RIPLEY

As Irene Ripley said when she submitted this 1996 photo sometime ago, "radio is not dead." In fact, that particular Christmas season, the billboard on I-94 in St. Paul, Minnesota, encouraged shoppers to shop at a local store called "Tamarack," located on Radio Drive off I-94, just east of St. Paul. The pitch, "Do Your Shopping on the Radio" is, as Irene said, "a thoughtful, interesting play on the word, 'radio.'"

Let's hope Tamarack has decided to keep this billboard as an annual happening.

*(Irene M. Ripley, 2276 Holloway Ave., Maplewood, MN 55109)*



*The cover of the "Temple Radio Directory" of the late 1920s.*

local areas. Over the next two decades the rules would be relaxed, and by the early 1980s the clear channel frequencies were being shared both day and night by other broadcasters.

The original 1A clear channel stations would remain as 50,000 watt nondirectional operations, but stations in distant parts of the country could now operate directionally on the 1A clear frequencies. WCTS in Maplewood, Minnesota, is a typical example. It operates on 1030 kHz, with 50,000 watts by day and 1000 watts at night, protecting the original occupant of the channel, WBZ in Boston, after dark.

In the 1970s and 1980s the AM band went through some tough times. FM had languished for more than a generation, due in part to the public's fascination with television. Also, the personal and legal struggles between RCA head, General David Sarnoff, and FM inventor, Edwin Armstrong, have to be listed as part of the reason for FM remaining on the sidelines.

Sarnoff pushed ahead with RCA's development of television in the late 1930s and 1940s at the very same time that Armstrong was trying to bring FM into commercial viability. In the 1960s FM finally began to come into its own with its inherent lack of static and interference and the easy ability to broadcast in stereo. The once dominant AM band eventually found itself with only about 25 percent of the audience.



## AM IN THE PRESENT

However, there is renewed interest today in AM radio. The FCC has recently expanded the band to 1700 kHz. If you have a late model car, you may already have discovered this extra bit of spectrum space on your car radio. A number of disadvantaged stations — daytimers, stations with extremely limited signals or very high interference levels — have been given the option of applying for one of the new upper-band channels. Each will operate with a daytime power of 10,000 watts, reducing to 1000 watts at night, nondirectional.

A station in Elizabeth, New Jersey, was the first to go on the new space and can be heard nights on 1660 kHz over much of eastern North America. I have personally heard the station in Florida and Minnesota. Other stations have recently begun operating on the new AM space,

and more are forthcoming. Many antique radios can pick up this expanded band. Back in the 1930s the so-called "police band" included the 1600-1700 kHz space, and a lot of the old AM dials were able to tune up to 1700 or even 1800 kHz.

Another improvement for some AM stations is the FCC rule which no longer limits regional stations to 5000 watts. Some of the oldtimers, such as WTMJ, 620 kHz, in Milwaukee, have been able to increase to 50,000 watts by day. Others such as KFWB in Los Angeles and WFLA, Tampa-St. Petersburg, also have applied for higher wattage and may already be operating with it by the time you read this. The old power parameters no longer apply. In the past, a regional station in the U. S. had to be 500, 1000, 2500 or 5000 watts. Now, power increases will be governed by how much will fit and still keep the station within legal interference tolerances. A station might have 6600 watts by day and 4350 by night, or whatever.

Then, there is AM stereo. It hasn't caught on with the public to any appreciable extent, and relatively few receivers are equipped to receive it. However, a number of AM stations broadcast in stereo, and it may become a factor in the future.

So, with the expanded frequencies and the general revitalization going on, AM is alive and well. While the days of AM dominance are long gone, the prognosis for the future looks good. There should be plenty to listen to on the AM band for a long time to come.

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(Continued on following page)

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### American Broadcasting Stations—Continued

Call Signal	LOCATION	NAME	Wave Length	Kilohertz	Power (Watts)	LOG
1KFDY	Brookings, S. D.	S. D. State College	545.1	550	500	
KIT	Yakima, Wash.	Carl E. Raymond	218.8	1370	50	
KFEL	Denver, Colo.	Eugene P. O'Fallon, Inc.	319	940	250	
KFEO	St. Joseph, Mo.	Scroggin & Co., Bank	535.4	560	2500	
KFEY	Kellogg, Idaho	Union High School	247.8	1210	10	
KFCO	Boone, Iowa	Boone Biblical College	228.9	1310	100	
1KFH	Wichita, Kans.	Hotel Laseen	230.4	1300	500	
KFHA	Gunnison, Colo.	Western State Coll. of Colo.	249.9	1200	50	
1KFI	Los Angeles, Calif.	Earle C. Anthony, Inc.	668.5	640	5000	
KFIF	Portland, Ore.	Benson Poly. Institute	211.1	1420	100	
1KFIO	Spokane, Wash.	North Central High School	243.8	1230	100	
KFIU	Juneau, Alaska	Alaska Elec. Light & Power Co.	228.9	1310	10	
KFIZ	Fond du Lac, Wis.	Fond du Lac Commonwealth Reporter	211.1	1420	100	
KFJB	Marshalltown, Iowa	Marshall Electric Co.	249.9	1200	100	
KFJP	Oklahoma City, Okla.	National Radio Mfg. Co.	204	1470	5000	
KFJI	Astoria, Ore.	George Kincaid	218.8	1370	100	
KFJM	Grand Forks, N. D.	University of North Dakota	218.8	1370	100	
KFJR	Portland, Ore.	Aahley C. Dizon & Son	230.4	1300	500	
KFJY	Fort Dodge, Iowa	Tunwall Radio Co.	228.9	1310	100	
KFJZ	Ft. Worth, Tex.	Henry C. Allison	218.8	1370	100	
1KFKA	Greeley, Colo.	Colo. State Teachers College	240.7	1300	500	
KFKB	Millford, Kans.	Dr. John R. Brinkley	285.5	1050	5000	
KFKC	Lawrence, Kans.	University of Kansas	243.8	1230	1000	
KFKX	Chicago, Ill.	Westinghouse El. & Mfg. Co. (Combined with KYW)	293.9	1020	5000	
KFKZ	Kirkville, Mo.	State Teachers College	249.9	1200	50	
1KFLV	Rockford, Ill.	A. T. Frykman	212.6	1410	100	
KFLX	Galveston, Tex.	George R. Clough	218.8	1370	100	
KFMX	Northfield, Minn.	Carleton College	239.9	1250	1000	
1KFNF	Shenandoah, Iowa	Henry Field Seed Co.	336.9	890	500	
KFOR	Lincoln, Nebr.	Howard A. Shuman	247.8	1210	100	
KFOX	Long Beach, Calif.	Nichols & Wartman, Inc.	239.9	1250	1000	
KFPL	Dublin, Tex.	C. C. Baxter	228.9	1310	15	
KFFM	Greenville, Tex.	New Furniture Co.	228.9	1310	15	
1KFPW	Sulphur Spgs., Ark.	Rev. Lennie W. Stewart	227.9	1340	50	
KFPY	Spokane, Wash.	Symons Investment Co.	215.7	1390	500	
KFOA	Voice of St. Louis, Mo.	Voice of St. Louis, Inc.	275.1	1090	5000	
KFQD	Anchorage, Alaska	Anchorage Radio Club	243.8	1230	100	
KFQU	Holy City, Calif.	W. E. Riker	211.1	1420	100	
KFQW	Seattle, Wash.	KFQW, Inc.	211.1	1420	100	
KFQZ	Los Angeles, Calif.	Leslie E. Taft	348.4	860	250	
KFRC	San Francisco, Calif.	Don Lee, Inc.	491.5	610	1000	
KFRU	Columbia, Mo.	Stephens College	475.9	630	500	
1KFSD	San Diego, Calif.	Airfan Radio Corp.	499.7	600	500	

A page from the "Temple Radio Directory." Note the dial positions and power of some familiar stations in the late 1920s.

(Evolution of the American AM Band, continued)

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Special thanks to Steven T. Moravec, President of the Phoenix Media Group, for providing valuable assistance in preparing this article.

(Ed Ripley, 2276 Holloway Ave., Maplewood, MN 55109)

Ed Ripley and his wife Irene have been avid antique radio enthusiasts for more than 16 years. A commercial radio broadcaster for 30 years, Ed's career in radio also included management positions. He has programmed radio stations in Tampa-St. Petersburg and Jacksonville, Florida, as well as in Cleveland, Ohio; Rochester, Minnesota; and Minneapolis-St. Paul, Minnesota.

## Digital Radio The Winds of Change are Blowing

BY RAY BINTLIFF, W1RY

*The phase-out of analog technology in favor of digital applications is widespread. In this article, we share information provided by A.R.C. reader Mark Hewitt that describes the potential impact of digital technology on AM and FM broadcasting. (Editor)*

The longevity and success of AM radio is truly impressive. Similarly, FM radio, although a newer mode of broadcasting, has been around since the 1940s. Of course FM did get an upgrade to stereo, but the technology remains pretty much the same.

Why has analog radio survived for so long while other electronic media have had shorter life spans? Probably because it works well and because of the great number of radios in use around the world. The sheer number of black and white TV sets in use was a strong incentive for developing a color TV system that was compatible with the black and white transmissions. Likewise, any new AM and FM technology will have to be compatible with existing radios.

Just as black and white TV was replaced by color TV, digital TV and High Definition TV may soon make analog TV outmoded. Perhaps the most dramatic changes have occurred in the field of sound reproduction. The 78 rpm record was made obsolete by the long playing 33 $\frac{1}{3}$  rpm record. The LP was, in turn, replaced by audio tape cassettes. Now, digital CDs are the predominant audio medium. With technical advances driving the consumer entertainment market how much longer can analog radio survive?

### A LOOK AT THE FUTURE

An article in *USA Today* predicts that a smooth transition from analog radio to an all-digital system may take 15 to 25 years. However, the use of a technology called "In-Band On-Channel" (IBOC) will enable broadcasters to transmit digital signals along with standard AM and FM signals and thus ease the transition from analog to all-digital radio.

So, IBOC will offer the best of both worlds. It will allow owners of existing radios to continue to listen to their analog sets and enable the "techies" to savor the new digital transmissions. The use of digital technology promises static-free AM radio with "near-FM quality" while FM transmissions could achieve "CD-quality."

Keep in mind that IBOC is not yet a reality. The FCC has yet to establish standards for IBOC, and a number of manufacturers are still testing systems and radios. It is estimated that a digital radio may cost \$75 to \$100 more than a current analog model. Prototype digital radios could be out by late 2000 —

perhaps an optimistic estimate.

An article in the September 5, 1999, edition of the *Rockford, Illinois, Rockford Register-Star* also covers the matter of digital radio. The article reports that a compatible system is 12 to 18 months away. Again, this estimate may be optimistic.

In addition to improved sound quality and greater immunity from static, digital radio could provide real-time data such as traffic, weather, and stock market reports, as well as emergency announcements to both hand-held computing devices and radios.

In his letter, Mark Hewitt said, "I hope that modern technology doesn't ruin my little world of radio collecting." To Mark and other collectors, I say do not despair. The demise of analog radio is not likely to occur for quite some time. If and when it does, an AM broadcast unit can always transmit programs from recordings to old radios.

Consider the technical and financial aspects of the switch to digital radio. The FCC and the radio industry must establish standards for digital radio. Prototype and production radios must be produced. Not only will digital radios cost more, but broadcasters must invest in new equipment with cost estimates reaching as high as \$200,000 per station.

No doubt these obstacles will be overcome eventually and all-digital radio will become a reality. But in the meantime, enjoy those great old analog radios.

If we consider how past technological changes have affected our hobby, things don't look so bad. Sure, color TV is almost universal, but black and white sets are still collectible. In the Amateur Radio world, single sideband (SSB) has become the most popular method of voice transmission, but AM communication receivers are still hot collector items.

On the bright side, the phase-out of analog radio may underline the importance of preserving examples of this venerable technology.

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*Rockford Register-Star*, Rockford, Illinois, September 5, 1999  
*USA Today*, n.d.

(Ray Bintliff, 2 Powder Horn Ln., Acton, MA 01720)

Ray Bintliff holds an Amateur Extra Class license. A retired engineer, he enjoys repairing and restoring pre-1945 radios and test equipment. In addition to *Amateur Radio*, his interests include electronic equipment design and audio reproduction.



# WITH THE COLLECTORS

## “Dilco Who?” Follow-up

BY DICK DESJARLAIS

COMPILED FROM INFORMATION CONTRIBUTED BY DALE DAVENPORT, GEORGE A. FATHAUER, JEFF GARDNER, AND SCOTT MCCLESKEY

*This follow-up to Dick Desjarlais' article on Dilco in the August 1999 A.R.C. demonstrates once again what A.R.C. is all about — the exchange of information. The more of that we do, the more we learn about radio history. (Editor)*

In my Dilco article in the August 1999 issue of A.R.C., I requested reader assistance in learning more about this unique early 1930s cathedral radio. True to A.R.C. form, I have received four responses to date. Some of the comments are quite similar, but varying observations, speculations, and facts have made this compilation an enlightening and fun experience.

The first reader to respond was Scott McCleskey, an engineer for General Motors in Detroit, Michigan, and an active member of several antique radio clubs. Scott, and incidentally all four responders, identified the set as a Tom Thumb Automatic, manufactured by Automatic Radio Mfg. Co. Inc., Boston, Massachusetts.

Figures 1 and 2 show the front and rear of Scott's Automatic Tom Thumb. Note the differences in the shape of the escutcheon and the style of the knobs when comparing his set in Figure 1, with my set in Figure 6 at the end of this article. My

escutcheon is rectangular with rounded top and bottom and is held with two round-head screws, while Scott's Dilco has a slightly triangular escutcheon held with three wood screws. The knobs on my Dilco have three “spokes” emanating from the centers, while Scott's set has plain center knobs with ridges at the outer edges.

While on the phone with Scott one day, I removed the escutcheon on my set. I wanted to see if the Automatic Tom Thumb escutcheon that he and the others had described had been removed and replaced with the Dilco escutcheon. Not so. There was no evidence of other nail or screw holes, or outline of a previous escutcheon plate.

When the rear view of Scott's set in Figure 2 is compared with the rear cabinet view of my set in Figure 7 at the end of this article, the upside-down Rola speaker, the speaker baffle and the extra long speaker wires look to be the same. This might blow the theory that the shield pan was deformed to accommodate a nonoriginal speaker baffle. So why was the speaker so obviously bent out of shape?

*(Continued on following page)*

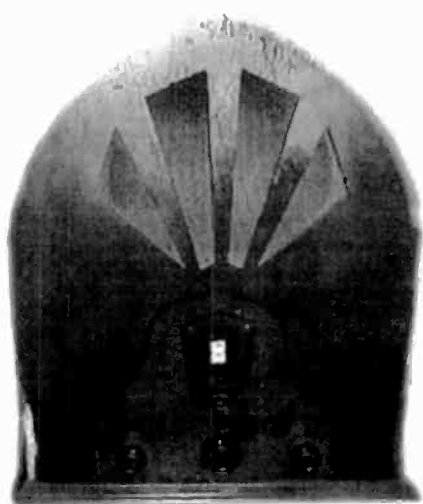


Figure 1. Front view of Scott McCleskey's Automatic Tom Thumb.



Figure 2. Rear view of Scott McCleskey's Automatic Tom Thumb.

(Dilco Who? Follow-up, continued)

Perhaps Scott has the right answer when he says, "Probably this was done some time ago when the grille cloth was replaced, and the speaker assembly was not properly reinstalled... causing the speaker to be down too far to push the chassis in. So some lame brain technician crushed the

chassis shield down so he wouldn't have to repair the radio the correct way!" Another possibility is that the loosely placed board on the floor of the cabinet caused the chassis to be too high for the speaker.

In the radio that he since has sold, Scott observed that original appearing, reamed holes were drilled through the cabinet baseboard to accommodate chassis shock mounts. There are no such shock mounts or reamed holes in the Dilco.

However, Dale Davenport of Fort Smith, Arkansas, surmises that the nonoriginal board slipped underneath the chassis could be a replacement for some type of missing shock mountings.

Dale thought that the chassis is likely to be original to this cabinet, as it fits side-to-side and front-to-back very nicely, and the shaft holes and escutcheon line up quite well. Dale and Scott agree that it is quite common to find the crude chamfering on the back of the shaft holes. This allows for correct shaft length extending through the face of the cabinet.

In answer to a question by Dale, there is evidence of a mounted "can" type filter capacitor having been located (and removed) just in back of the power transformer. Regarding the dual 20 mFd tubular filter capacitor so shoddily installed, and observing that the original capacitor

(Continued on following page)

### 1930 Will Be A Dilco Year!



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HARRISON, N. J.

Figure 3. The Dilco Radio Corporation was obviously alive and well in late 1929. Did this obscure company become a victim of the 1929 market crash?



Figure 4. This typical tube carton of the 1920s is further evidence that the Dilco Radio Corporation at least manufactured radio tubes. Did Dilco produce any other radio-related items?

## TOM THUMB MIDGET RADIO

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112-118 Canal Street

Boston, Mass.

Figure 5. "Radio News," November 1930, featured Automatic's "new" Tom Thumb Midget radio. This is the set previously prized by Scott McCleskey and now owned by George A. Fathauer.

was probably dual 8 mFd, Dale comments that "most old service guys don't seem to have gotten too excited about capacitor values being somewhat excessive." As an added note, the power transformer may not be original, as it appears overly large and not well suited to the available space.

Dale reported other sightings, such as seeing an Aztec or Atchison set with nearly the same cabinet front. As was the custom in the early days of the radio industry, it is probable that the "Dilco" radio was manufactured by Automatic for Dilco and other distributors.

As mentioned earlier, Scott sold his Automatic Tom Thumb after restoring it. He regrets selling it because it is the only one he has ever seen. But, this radio-collecting hobby can sometimes take some fortuitous turns. Scott sold his set to none other than George A. Fathauer, who with his father, George H. Fathauer, formerly owned Antique Electronic Supply in Tempe, Arizona.

George has shared some very helpful information about the trade name "Dilco," as evidenced in the Dilco Radio Corporation vacuum tube ad shown in Figure 3. At least we know that Dilco actually manufactured radio tubes! Further proof of that is George's photo of a Type 227 Dilco radio vacuum tube carton shown in Figure 4. This photo also appears on page 35 of his recently published book, *Radio Tubes and Boxes of the 1920's*.

George also provided the November 1930 *Radio News* magazine ad in Figure 5, showing the new Tom Thumb Midget radio by Automatic. It is clear from this ad that the knobs on my set are not original. The knobs for Scott's set, however, as shown in the front view of Figure 1, are a perfect match to those in the *Radio News* ad.

Jeff Gardner of Gloversville, New York, also read the Dilco article with interest, and observed that a cathedral radio with an identical cabinet is pictured on page 73 of Mark Stern's *Machine Age to Jet Age II*. He says, "If you switch the escutcheon and the knobs, this set is a dead ringer."

Incidentally, while at the famed antique flea market in Brimfield, Mass., in early September, I actually came upon another Automatic set! Unfortunately, the cabinet was a basketcase, and the chassis had serious modifications. I decided not to buy it, but, of course, I've had second thoughts since. Just think, I could have had a live (well, almost live) Automatic Tom Thumb to compare face-to-face with my Dilco.

If there is further documentation out there on the Dilco Radio Corporation, please send it along to A.R.C.

#### References:

*Antique Radio Classified*. Carlisle, Mass., August, 1999.

Fathauer, George A. *Radio Tubes and Boxes of the 1920's*. Chandler, Arizona: Sonoran Publishing, 1999.

*Radio News*, November 1930.

Stein, Mark V. *Machine Age to Jet Age, Vol. II*. Baltimore, Maryland: Radiomania Publishing, 1997.

(Dick Desjarlais, Box 629, Littleton, MA 01460)

*Dick Desjarlais' interest in radio began at age 14 when he was an apprentice in a radio repair shop. This interest renewed itself when he retired from school administration, and since 1987, he has been an active collector and dealer and a frequent contributor to A.R.C.*

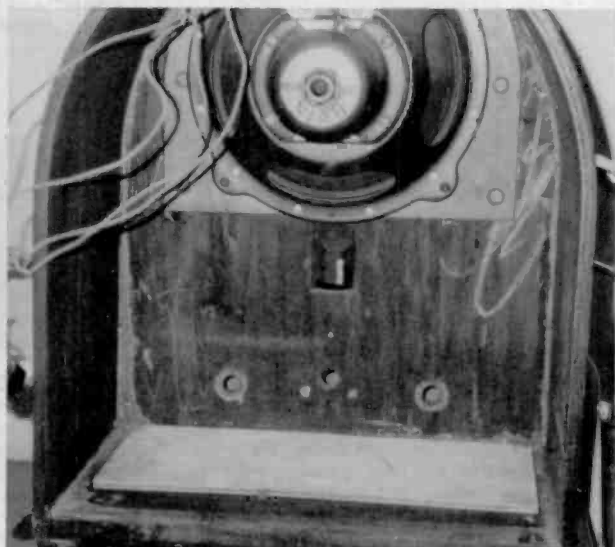


Figure 6 (left) and Figure 7 (right). These photos of Dick Desjarlais' Dilco appeared as Figures 2 and 3 in his article "Dilco Who?" in the August 1999 A.R.C. Compare the escutcheons and Rola speaker sections of Dick's set with Scott McCleskey's set in Figures 1 and 2 of this article.



# PHOTO REVIEW



This column presents in pictorial form many of the more unusual radios, speakers, tubes, advertising, and other old radio-related items from our readers' collections. The photos are meant to help increase awareness of what's available in the radio collecting hobby. Send in any size photos from your collection. Photos must be sharp in detail, contain a single item, and preferably have a light-colored background. A short, descriptive paragraph **MUST** be included with each photo. Please note that receipt of photos is not acknowledged, publishing is not guaranteed, and photos are not returned.



**U.S. COMMAND SPACE SATELLITE, MARK II** – This "Moon Radio" is a germanium-type crystal set that tunes by moving the top rod up and down. It was manufactured by Educational Electronics Co. of Chicago, Illinois. (*Harry Blesy – Hindsdale, IL*)



**AMPLION AA-18 HORN SPEAKER** – This heavily "carved" wood cabinet speaker was manufactured by the Amplion Corp. of America, whose main office was at Madison Avenue in New York City. It was marketed as the "Patrician" and has a molded horn bell inside the case. (*Dave Crocker – Mashpee, MA*)



**ZENITH MODEL 5S126** – This is an early example of the Zenith big black dial radios of the 1930s. It features a 5-tube, transformer-powered chassis, split-second tuning, and a top-mounted speaker providing unidirectional sound. It was manufactured in 1936 and is often referred to as one of the "cube" radios. (*William Dalton, Jr. – Bridgeport, CT*)



**ADROLA MODEL R5P** – This 1925 TRF battery set is a rare model from the Adroit Tool Co. Five Type 201-As are behind the front Bakelite panel in a neat symmetrical layout. Three tuning condensers are employed with Freshman-style coils. Two audio transformers are used in the AF stages. Please contact A.R.C. if you have any information concerning the Adrola series of radios. (*Orval Egarter – Fonthill, Ontario, Canada*)



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## PHOTO REVIEW

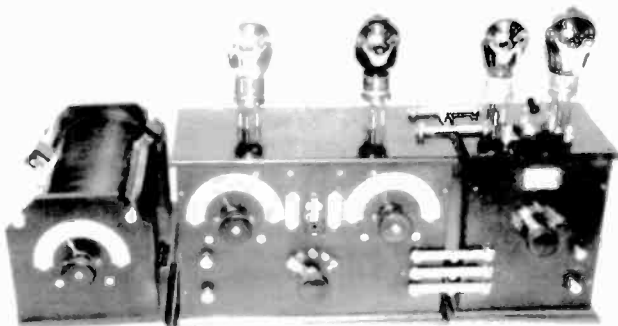
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**CRYSTAL DETECTOR BOXES** - Shown here are some examples of crystal detector cartons made in Austria, Germany, Sweden and Italy. (*Erwin Macho - Vienna, Austria*)

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**EREC-TRONIC SET** - This educational toy was made by Science Electronics Inc., in Cambridge, Massachusetts. Using templates over a pegboard base, a youth can build 15 different radio circuits, 12 different radio receivers, a signal transmitter and a code practice unit. (*Don Dean - Sarasota, FL*)



**ANCEL RECEIVER** - This rare, 4-tube receiver was manufactured in 1923 by Ancel of Paris, France. (*Jim Taylor - Bournemouth, England*)



# INTERNET

## To Web or Not to WebTV — Part 5 (If I can do it, you can do it)

BY DICK DESJARLAIS

The first four parts of this series on my introduction to WebTV concentrated on purchasing and setting up the necessary equipment and getting acquainted with the wireless keyboard. After that was done, the major goal was to learn how to use e-mail. Now it's time for me to venture into more uncharted territory — the Internet. WebTV gives access to the Internet through the use of an Internet terminal and a wireless keyboard. Your TV screen takes the place of a monitor.

When I opened the carton containing the Sony WebTV Plus Internet terminal, I discovered an unexpected bonus. Sony had provided a 394-page softcover WebTV Special Edition titled *What's on the Web*. This book is glowingly billed as "Your Indispensable Guide to Thousands of Useful and Exciting Business, Professional, Personal, Technical and Social Places Along the Internet's World Wide Web."

Well, that seemed to cover a massive territory! My first thought was, why would I want to access such a broad spectrum of information? My second thought was, even if I desired such access, how would I retrieve it all?

### WHAT'S ON THE WEB

Most of the pages in *What's on the Web* are devoted to a brief description of hundreds of Web sites, plus a 35-page Web subject finder. This is fine for someone who knows which buttons to press and what techniques to use to reach these Web sites. Needing a starting point, I began with the introductory section, studiously highlighting salient points.

A handy glossary provided definitions for Web jargon, including Web site (Web page or home page); links (words or groups of words which are highlighted on Web pages); search engines (ways to find the sites you are looking for); and URL (universal resource locator), which indicates a Web site's exact address or location on the Web.

If I had my own Web site, (which I don't, yet!) my URL or Web site address could look like this: <http://www.desjavu.net>. In order to go to a Web site, you must type the URL *exactly* as it appears, upper and lower case letters included.

Although the glossary was informative, what really caught my eye was this statement: "You can reach all the Web sites covered in this guide on your Sony TV Internet terminal through our own Web site — JumpCity — simply by entering the 4- or 5-digit Jump Codes we've assigned to each Web site we've reviewed here."

### JUMPCITY

More study revealed that I could short-circuit the use of URLs for each Web site I wanted by using *What's on the Web* and the companion Web site, JumpCity. This supposedly makes it more convenient

to "jump" right to the Web site you are looking for without each time having to type the sometimes confusing URL.

After a little practice, and as a novice on the Internet, I found this feature to be only marginally useful. It requires moving the wireless keyboard cursor arrow buttons to "Favorites" and pressing the return button. There is a built-in JumpCity icon in the Sony "Favorites" folder. Once you select this icon you are linked to JumpCity.

After highlighting and pressing JumpCity, you must enter the 4- or 5-digit code for the Jump site you want to visit. For example, the code number for Sony's site on the Web is "Jump 4027." Pressing this code number automatically links to the Sony Web site. To jump to another site, you go back to JumpCity by pressing "Back" or "Recent."

Browsing through other sites, for example, I found the Museum of Television under Jump Code 0220. This site turned out to be a Canadian-based TV History Museum, promoting a television education conference to be held in Toronto in the year 2000.

Looking further into the Web Index/Finder, I spotted a search engine listed as "Yahoo! — A Guide to WWW." Curiosity got the best of me, since I had heard this weird term before. So I entered the Jump code 0043. At this point I didn't know Yahoo!'s URL, or any others, for that matter. In this, my first effort at accessing a search engine, the JumpCity code system did prove helpful. Looking at the Yahoo! home page, I highlighted "Classifieds," thinking I could easily find references to antique radios, including, of course, A.R.C.

This led me to the antiques link and a new page showing antique collectors under "Community." Somehow, I had lost the trail for classifieds, but I forged ahead and pressed the antique collector's link. This led me to auctions, which I thought I would save for another day.

Since I felt I was getting nowhere — at least nowhere I wanted to go — I pressed "help." I was directed in this way to another search engine called "AltaVista at Jump 8025." Using the search bar, I typed in "antique radios" and then pressed "search," which was in small type under the bar.

Disappointed, I saw absolutely no reference to antique radios. But some instinct prompted me to press the scroll-down button. How obvious! But not to a novice! Lo and behold, I was immediately informed there were 2,285 Web pages for antique radios. I decided this would be a good place to practice surfing.

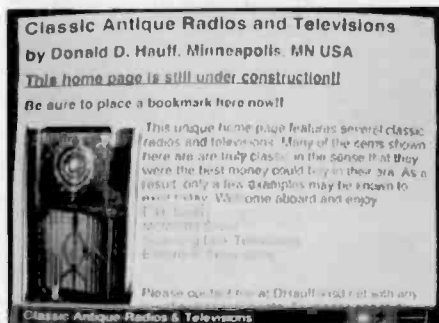
### SURFING

What fun! There were twenty different antique radio Web sites listed in AltaVista, each with its own link to specific topics. This was indeed a new world for me. I

decided to try the first site listed, "Classic Antique Radios and Television." Pressing the bar, I found Don Hauff's home page and pressed the links for E.H. Scott, McMurdo Silver, Scanning Disc TVs and Electronic TVs. Given his note that "This home page is still under construction," I was not surprised to find only two or three classics under Scott and McMurdo Silver, and no entries for TVs.

Skipping to Rod's Classic and Antique radios, I used the link for selected radios in the 1920s, and noted 15 hard-to-find sets just in that era. The photos were fine, especially when enlarged. I began to realize that I could spend multihours just scanning this and other collections in the AltaVista search engine alone! But that could come later.

For now, I was just trying to get a "feel" for a few Web sites that are available in *What's on the Web*.



Don Hauff's home page on WebTV.

Unfortunately, what was not in JumpCity's Index/Finder was A.R.C.'s Web site!

Even though I could easily have accessed the A.R.C. Web site with the A.R.C. URL ([www.antiqueradio.com](http://www.antiqueradio.com)), I thought I'd do a search for antique radio publications and access the A.R.C. Web site that way. Wow! AltaVista found 4,598,335 pages! I began to realize how much I had to learn about using carefully selected key words to get the right results.

### NARROWING THE FIELD

Following John Terrey's suggestion, I tried putting a (+) sign before "antique radios" to try to narrow the field, and I came up with 87,700 Web pages. Quite a reduction from over 4.5 million! This was getting interesting! Next, I tried a (+) sign before and after "antique radios." Same number — 87,700.

I tried putting "antique radios" in quotes, pressing the edit button to correct a typo in the bar. Amazing! The number of Web pages was now reduced to 4,015. Now I was noticing familiar territory in Web sites like Harry Poster's Vintage TV's and Radios, the New England Antique Radio Club, *Antique Radio Classified: Book Review*, and *Antique Radio Classified: Collector Books*.

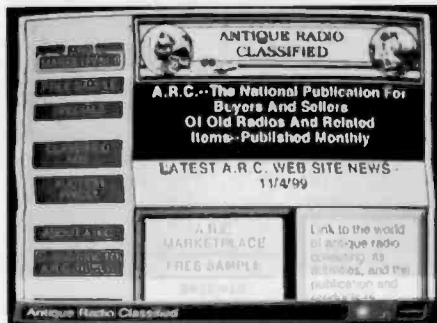
What if I put a (+) sign before the quotes; would that reduce the number even further? Still 4,115. But when I put the (+) sign before and after the quotes, the number was surprisingly reduced to 2,289 pages! Well, why not one more experiment. How about putting the (+) signs inside the quotes? Still 2,289. But, now I know

that this little experiment will stand me in good stead as I surf other search engines.

The Sony publication *What's on the Web* was certainly not intended to be a complete listing of WebTV sites. For example, since it does not include the A.R.C. Web site, there is no convenient JumpCity code number with which to gain access. However, no problem, because I now know A.R.C.'s URL ([www.antiqueradio.com](http://www.antiqueradio.com)) by heart. In this and similar instances where the URL is already known, I learned there is no need to use either "JumpCity" or "Search." Using my wireless keyboard, I simply press "Options," and then "Go To," type the known URL in the address bar, and press "Go To Page."

### THE VALUE OF A.R.C. "LINKS"

There are many informative features of A.R.C.'s



A.R.C.'s new home page on WebTV.

Web site available to WebTVers, as well as to the experienced computer person. My favorite page is "Links." There, in addition to many Web sites of radio collectors, I found two Web sites for the AWA (Antique Wireless Association). The first is a history and introduction to AWA. The second is for the *Old Timer's Bulletin*, the official AWA journal.

Referencing that publication, I found that the November 1998 issue featured a new column edited by Chuck Schwark, titled "Getting Acquainted With the Internet." This first column included a brief description and history of the Internet, a helpful glossary of Internet terms, plus a list of "services" available on the Internet. In the February 1999 issue, Chuck's column, now aptly called "On the Internet," concentrates on basic hardware and software requirements for connecting to the Internet by computer.

This section does not apply to those of us who have chosen or may be choosing WebTV to get online. However, the continued glossary of Internet terms and the listing of antique radio Web sites is of interest. The May 1999 issue focuses on a definition of search engines. In addition to useful tips on narrowing the search for sites, a list of suggested URLs is included.

In Part 6, the conclusion of this series on WebTV, I will recap (pardon the pun), the various features of WebTV Plus, and expand upon my further adventures in utilizing what e-mail and the Web have to offer.

(Dick Desjarlais, PO Box 629, Littleton, MA 01460-2629)

# Surfing the Web with A.R.C.!

BY GEORGE KACZOWKA

While at the Rochester AWA meet this past September, I was given the opportunity to preview an early version of the new A.R.C. Web site under development. It was evident that the A.R.C. staff had put a lot of thought and work into the new site. I recently got another opportunity to review their progress. The Web site has certainly taken shape and should be online by the time you get this!

The first thing you will notice is a new look that is fairly simple to use. Down the left side of the page are section headings to common points in the Web site that you might want to visit. Most of these you will immediately recognize. This "navigation bar," as it is sometimes called, allows you to jump quickly to common places on the Web from anywhere on the site. You can then use the "Back" button in your browser to return to where you were.

## NEW SECTIONS

Two new sections of the Web pages are "Classified Ads" and "Auction Prices." When you go to "Classified Ads," you will need the "log-on ID" (your sub number) and the "password" from your mailing label. If you get your copy by First Class mail, this is on the envelope, so *don't throw it away!* Simply key in the 1- to 5-digit log-on ID and the 4-digit password in square brackets on your label, and you are there!

The "Classified Ads" section is quite versatile, allowing you to view the ads as in the magazine, but also to search through all of the ads for certain items. This search capability does take some time, so it is not the way you would normally browse the ads. Fortunately, A.R.C. thought of that and provided some categories such as "For Sale," "Wanted," "Message," etc., just as they are in the magazine.

To access a particular category, click on the heading, and you will be given the ads for that section of the classifieds in groups of 10 ads per page. If you see an ad that you may want to respond to, you can print the page from your browser by hitting the "Print" button. There are "Next," "Previous," "First" and "Last" buttons to help you move around the section.

## SEARCH CAPABILITY

There is also a "Search" capability. From the "Classified Ads" home page, click on the search link to get to the "Search" page. The next thing that you do is to select the section of the classifieds you want to search. You can select "All," but if you are looking for a particular "Wanted" ad — for example, for a Midwest radio — it is faster to search only the "Wanted" section. Then, you will need to enter the "Search" keywords. This search is very much like those used in many other Web sites, and if you are a veteran Web surfer, everything will be obvious.

If you are not familiar with Web surfing, just specify a word or two that would find what you want. The general "Search" will try to find only ads that have the

words you use in the exact order you type them in. For example, if I were interested in finding 6L6G tubes, I might enter "6L6G tube" into the search box, and press the "Search" button. However, unless both words are adjacent in the ad and in that order, I will miss some ads.

The idea is to find as unique a keyword or phrase that will get you what you are looking for without missing something that is important. In this case, since 6L6G is most likely used as a tube number anyway, I would not add the word "tube" to the search.

Another thing to note is that the "Search" will look for all types of capitalization of the keyword(s) that you use. Therefore, "Midwest," "MidWest," and "MIDWEST" will all yield the same results!

It may seem that there are a lot of things to remember when using "Search," but once you use it, you will feel like an old pro in no time! For those who really want to get fancy, there is even an "Advanced Search" capability, but the description of that is beyond the scope of this article. There is help available on the Web site, and it includes examples to assist you.

## AUCTION PRICES

Well, now that we have had a quick look at the "Classified Ads" section, we can use some of what we have learned to access the "Auction Prices" section, since that is driven by the "Search" also.

Clicking on the "Auction Prices" button on the A.R.C. home page on the left navigation bar brings us to the

Search *Beitman* results :  
2 match(es)

Ads 1 - 2 displayed .

No.	Category	Item Description	MM-DD-YY
1	FOR SALE		7/10/99
Beitman Most Often Needed TV 1951, 1953, thru 1959 - \$8 ea. Paring out two Philco 40-180, no pushbuttons. Heathkit Model 10-12 scope - \$25. Stromberg 60 chassis - \$30. RCA 58AV radio/phone whole or parts. Pilot T301 - \$30. WANTED: Dial for QF E61 tombstone. Brian Kurlle, 2222 Northleigh Ter., Jarrettsville, MD 21084. (410) 692-0450			
2	FOR SALE		6/10/99
Arvin 950T - \$20. RCA 35X - \$12. Beitman's Most Often Needed Radio Diagrams: '26-'38, '39, '40, '41, '42 - \$6 ea. Richard Haneline, 3600 Cuba Blvd., Monroe, LA 71201. (318) 323-9657, between 8 am & 6 pm.			

Results of a classified ad search on the word "Beitman."

"Search" page for auctions. The search here works just like the search in "Classified Ads." Try to use a single word that is unique enough to get you just what you want. I tried "Midwest" and found eleven items. Imagine what I would find with a word like "radio."

The results of a search are displayed 10 items per page and include the item, the venue (club/auctioneer), and the price. To get the information on a venue, such as in what issue of A.R.C. the full report can be found, search for the keyword "Venue."

There are currently no photos in either the "Classified Ads" or the "Auction Prices" sections, but I am told that they will be coming for the classified ads.

As always, there are a few small things that I would like to see in the future:

- A bit more help on the search pages to explain how to use multiple words in a search.

• Dates in the "Classified Ads" and the "Auction Prices" sections to include an issue date. [Currently, the date in the classified ads is the deadline date — e.g., December ads are dated 11/10/99. For auctions, the "Venue" search will list the venues, and the issue in which the auction was reported.]

• E-mail addresses and Web site addresses as hyperlinks, so that you could just click on them to send a message, or view a Web site.

There is a lot to see and do at the new *Antique Radio Classified* Web site, so I would encourage you

to check it out!

(George Kaczowka, 23 Hillside Ave., Boylston, MA 01505; e-mail [gsk@oldradios.com](mailto:gsk@oldradios.com))

George Kaczowka, a collector of old radios for over 25 years, is vice-president of the New England Antique Radio Club. He is a software designer for a medical information company in Boston, and, with Marty and Sue Bunis, is co-author of the CD-ROM version of "Collector's Guide to Antique Radios, Combined Edition."

## A.R.C. Web Site a Hit!

BY DOROTHY SCHECTER AND JOHN V. TERREY

We must be doing something right. A.R.C.'s Web site at [www.antiqueradio.com](http://www.antiqueradio.com) has received over 200,000 visitors since first going online in November 1995. Over a two week period alone (October 15 to November 1 this year), page requests averaged 1,340 per day — which works out to over 40,000 page requests a month!

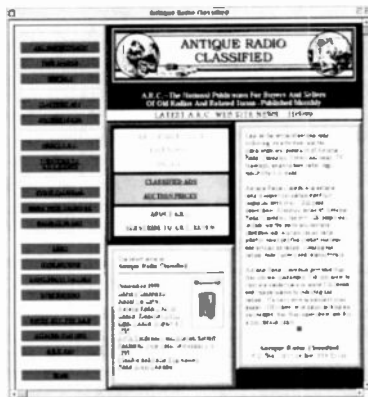
Equally impressive is the worldwide interest reflected in the list of more than 60 countries represented — from Asia and the Middle East (Japan, Israel, the United Arab Emirates, etc.) to Europe (Russia, United Kingdom, Portugal, Bulgaria, etc.), South America (Argentina, Venezuela, Costa Rica, etc.), and, of course, North America (the U. S. and Canada). This worldwide interest is good news for the radio-collecting community.

### THE ATTRACTIONS

What is it that attracts these visitors to our site? The answer appears to be the storehouse of information there offered free to everyone. After the home page itself, the most frequent requests go to 1) Marketplace — subscription renewals, book purchases, and free sample requests are made easy; 2) Links — over 250 Web sites may be accessed; 3) Radio Photo Gallery — an area we hope to expand significantly in the future, and to which we want to provide a search capability; 4) Events — the "Events Calendar." All of these features are updated monthly. Also frequently accessed is the Radio Club List, always available on the Web site but printed only once or twice a year in the magazine.

These features have been offered since 1995, but on our newly designed home page, they are easier to access. A single click on the desired topic listed on the left navigation bar, highlighted in red, will take you directly to where you want to go. We plan to improve the readability of the left navigation bar soon.

Also continuing each month is the inclusion of one or more articles. In 1999 alone, 23 articles have been published; in fact, over 70 articles have been archived and grouped by year since 1995. In addition, the 34 book reviews published so far offer even more insight into the world of antique radios. And with the increase each year of all this invaluable information on our Web



This image is just a teaser to get you to view A.R.C.'s new home page on your computer.

site, collectors will have a veritable antique radio library at their fingertips.

All of the above features, plus the *Editor's Comments*, "On the Cover," and *Radio Miscellanea*, will continue to be offered free, as they have for four years. One improvement is that the general information about A.R.C., which was scattered here and there, has been reorganized, expanded and combined into one comprehensive page of "Frequently Asked Questions."

### THE TOTALLY NEW

As of November 4, 1999, at 10:00 A.M., the long-awaited ads went online for subscribers only. Hundreds of you logged on, and as we suspected, there were some glitches. That is the reason we began with old ads — they enable you to experiment with the process and report to us on your progress. Fortunately, the early problems were resolved quickly, and we should be able to post current ads before long.

The other totally new feature is the availability of auction prices to all. Currently, 6,816 prices, taken from reports over approximately the past two years, are listed, including the item, the price, the venue, and the date of the auction. This is another valuable reference for those of you involved in buying, selling and trading.

An important addition to our home page is the line at the top of the page — "Latest A.R.C. Web Site News" — followed by a date. Check this link frequently because it will keep you abreast of the latest information about A.R.C., including the posting date for ads.

In all, we have reason to be proud of the A.R.C. Web site, as the feedback from all over the world has been overwhelmingly positive. We are grateful to the thousands of you — subscribers and non-subscribers alike — who visit the site each month. And we ask that you continue to support us in this service to the radio-collecting community, in particular by your patronage of our "Marketplace," which will soon be enhanced by a shopping cart and a secure credit card transaction capability. Your subscriptions and purchases make A.R.C.'s continuing participation in the high-tech world of the millennium possible.

(Dorothy Schecter and John V. Terrey, c/o A.R.C., Box 2, Carlisle, MA 01741)



# AUCTION REPORT

## Mills Auction Charlottesville, Virginia — Sept. 26, 1999

REPORTED BY ROD A. MILLS

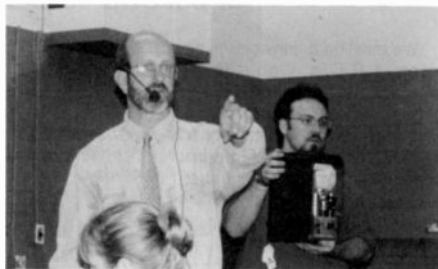
The aftermath of Hurricane Floyd posed no problems for the large antique radio auction held September 18, 1999, in Charlottesville, Virginia, at Dill's Auction House. This part of central Virginia had minimal effects from the storm. About 80 active bidders showed up to bid on the 350 radios and 150 related items from my 12-year collection. Among the bidders, about 10 states were represented, including Minnesota, Connecticut, New Jersey, Tennessee, and all states adjacent to Virginia. Total sales exceeded \$15,000.

The highlight of the auction was the sale of an Atwater Kent Model 10 breadboard for \$1,045. Other notable sales were a near-new Hickok 539C transconductance tube tester for \$577, a MacIntosh monaural amplifier with WE tubes for \$522, an RCA Radiola RAE-59 radio/phono console for \$269, a Philco 90 cathedral for \$412, a Zenith A-600 Trans-Oceanic with leather case for \$209, a set of three large demonstration breadboards (receiver, transmitter, & power supply) for \$143, and a Saal horn speaker for \$110.

All cathedral and tombstone radios sold well. Very little interest was shown in transistor radios. Old monaural amplifiers did well, probably because of their tubes or transformers. The interest in test equipment, such as signal generators, scopes, and meters, was mixed but not very great. A single homemade crystal radio sold for only \$5.50. Microphones sold well.

All the following prices are rounded down to the nearest dollar.

As the owner of all the auctioned items, I was pleased that I finally would be able to get my cars back into their garages. An electronic engineer, I retired from NASA Headquarters in 1988 where I was a program manager for several planetary



Auctioneer Norman Dill in action taking bids from the floor on a 1930s tombstone radio.

exploration missions. I intend to continue collecting radios, but to restrict my interest to the 1920s and 1930s. I am also an avid collector of quack medical devices.

Norman Dill, the auctioneer, received several consignment offers and is planning on conducting a similar antique radio auction in Charlottesville VA in the spring of 2000.

g=good, N.I.B.=new in box, wk=works, PB=push buttons, NT=no tubes, WT=with tubes

ABC antique tube tester, ca. 1920s .....	\$22
Admiral 4R11, portable .....	11
Admiral A126, 1936, 3-band, broken dial glass .....	44
Advanco 622 transistor radio, N.I.B. ....	11
AEL 240 in-circuit transistor tester .....	5
Air Castle 629, 1937, 2-band, tuning eye .....	44
Air King 4604-A, 1946 .....	33
Air King 4604-D, 1946 .....	22
Airline 04WG-803B, 5-band .....	27
Airline 6L495252, farm .....	27
Airline 25WG-1570B, 1952 .....	5
Airline 94 .....	22
Airline GSL-1079A portable, 1958 .....	11
American Bosch 48, 1927 .....	44
Ampex 651 and tapes, 1/4", 7" reels, (7), new	16
Ampro 730 tape recorder .....	11
Argonne AR-54 crystal microphone, on desk stand .....	16
ARRL Handbook, (4), 1938, 43, 47, 56 .....	55
ARRL Handbook, (2), 1942 & 1962 .....	5
Arvin 140P portable, 1947 .....	8
Arvin 552N, 1947 .....	38
Astatic D-104 microphone .....	44

**A warning:** Auction prices are not current values. Our selection of auction items is not necessarily complete. A listing such as this cannot adequately include the condition of cabinets, chassis, transformers, tubes, the operating status of the set, and the inclusion of incorrect, restored or replica components, etc. Auction prices are the result of the excitement of the auction process, the skill of the auctioneer and the specific interests of the participants. Nevertheless, auction prices serve as useful references and as another element in the value determining process. The possibility of error always exists, and if we are notified, corrections will be reported.





*This 1931 RCA Victor Model RAE-59 is a radio console in an exquisite "carved" cabinet with an early AC powered 78 rpm phonograph and record changer. It brought a high bid of \$269.*

Atwater Kent 10 breadboard, No. 4700.....	1,045
Atwater Kent 35, 1926 .....	143
Atwater Kent 37, 1928 .....	66
Atwater Kent 55, 1929, (2) .....	44, 71
Atwater Kent F-4-A speaker .....	22
Atwater Kent P-4-A speaker .....	44
Barker & Williamson 200 audio oscillator .....	5
Bell & Howell 5" oscilloscope .....	8
Bendix 111, 1949 .....	5
Bendix 0526E, 1947 .....	55
Bendix 636C, 1947 .....	11
Bendix 953B .....	17
Bendix radiological dosimeters, Civil Defense, (30) .....	27
Blaupunkt 21053, German, 3-band .....	22
Bodine motors, 1/4 HP, 110v, DC, (2) .....	11
Catalogs: Allied, Lafayette, Burstein-Appleby, Walter Ashe, all old, box lot .....	33
Braun 99UKW, German .....	33
Bulova 1460 series transistor radio .....	5
CBS 515A (1953) .....	16
Channel Master 6TR All Transistor Deluxe radio ..	11
Channel Master 6222, 8-transistor radio .....	5
Channel Master 6506 transistor radio .....	8
CIE Electronics Course, 1960s, 57 booklets ..	16
Clarion C100, 1946 .....	19
Columbia coin-operated, unusual .....	22
Conar 255 oscilloscope, 5" CRT .....	5
Conar 280 signal generator .....	5
Conar 500 SW .....	16
Concord radio .....	55
Coronado R-675, farm, 1934 .....	44
Crosley 6H6, 1933 tombstone .....	99
Crosley 66TC, "American Overseas," 1946 ..	60
Crosley 88TA, 1948 .....	19
Crosley 517, 1934, "Fiver," farm set .....	44
Crosley 616 tombstone, 1934, 3-band .....	55
Crosley 629 tombstone, 1937, small .....	154
Crosley chassis 1529 radio/phono .....	5
Crosley D-25MN clock/radio, 1953 .....	99
Crosley F-5CE .....	55
Delco R-1229, 1947 .....	27

DeVry oscilloscope, 5" CRT .....	5
Dyna FM-3 FM tuner .....	55
Dynakit Mark IV audio amplifier .....	88
E-C EC452 power supply, 500v, DC .....	5
ECA radio .....	16
Eico 324 signal generator .....	13
Eico 488 electronic switch for scope .....	5
Eico 628 tube tester .....	5
Eico 680 transistor & circuit testers, (6) .....	16
Eico 950 R-C comparison bridges, (2) .....	11
Eico HF-20 audio amplifier, 7-tube .....	121
Electra AM 500 10 transistor radio, auto tuning, unusual .....	5
Electro 200 AM binocular radio, (2) .....	5
Electro-Voice 12A 12" hi-fi speaker, 3-way .....	11
Electro-Voice 630 microphones, (5) .....	107
Emerson 126, (1936), (2) .....	71
Emerson 510, 1946 .....	55
Emerson 539, 1946 .....	16
Emerson 550, 1947 .....	22
Emerson 587A, 1949, (2) .....	22, 44
Emerson 646 portable, 1950 .....	11
Emerson 653B, 1950 .....	24
Emerson 659B, 1949 .....	16
Emerson 908 .....	5
Emerson BC-603-DM receiver, U.S. Army Signal Corps .....	11



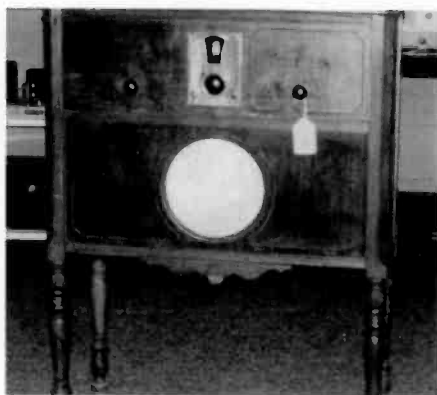
*Two early RCA receivers up for offers: A 1927 Radiola 17 that sold for \$33 and a 1928 Radiola 60 needing some slight veneer work that sold for \$49.*

Equitable-Capitol, ca. 1920s .....	27
ERL D1 antique speaker in original box, 1915-1920, new .....	60
Fada 202 .....	77
Fada 1001, 1947 .....	22
Firestone 4-A-10, "Air Chief," 1947 .....	16
Firestone 4-A-20, 1947 .....	27
Firestone 4-C-13 portable, 1949 .....	5
Fisher Spacexpander K-10 spring reverberation unit, (patent 1961) .....	5
GE 7-2500B FM-AM transistor radio, wk, g .....	5
GE 7-2506B transistor radio .....	5
GE 7-2660D 2-way powers, (2) .....	5
GE 115, 1948 .....	11
GE 201, 1946, (2) .....	27, 44
GE 203 .....	22

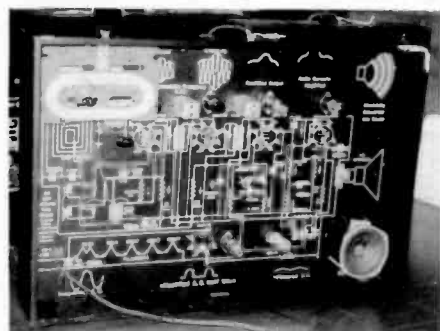
*(Continued on following page)*

(Mills Auction, continued)

GE 218, 1951 .....	5
GE 221, 1946 .....	35
GE 250, portable, 1946, lead-acid battery .....	11
GE 404, ca. 1950 .....	13
GE 412, 1952 .....	22
GE 440, 1954 .....	5
GE 452 .....	27
GE 572 clock/radio .....	19
GE T-202A, ca. 1961 .....	5
Granco FM-610, (2) .....	11
Grundig 1060, German .....	27
H.H. Scott 811-B random noise generator, rare ..	17
Hallicrafters 5R-40, "Continental," portable, 2-band .....	38
Hallicrafters CR-44A .....	16
Hallicrafters S-120, metal, (2) .....	110
Hallicrafters S-38 .....	66
Hallicrafters S-38C, 1949 .....	38
Hallicrafters SX-105, metal, 152-173 Mc .....	16
Harmon Kardon F10 .....	11
Harron Labs Air-Com, 116-136 Mc .....	8
Hartman Marine 3059 radiotelephone .....	5
Headphones: Brush, Cannon, Frost, Airline, Brandes, (10) .....	66
Heath EU-701-30 photomultiplier module .....	5
Heathkit IG-102S RF signal generator, (6) .....	72
Heathkit IM-5228 VTVM .....	5
Heathkit IP-32 variable power supply, 400 v ..	24
Heathkit IO-14 5" oscilloscope .....	5
Heathkit AT-1 transmitter .....	19
Heathkit BR-2, AM .....	8
Heathkit IG-82 sine-square generator .....	8
Heathkit SW-717, 4-bands .....	16
Heathkit TC-2 tube tester .....	11
Heathkit W-3 AM audio amplifier, (Williamson type) .....	154
Heathkit W4-B audio amplifier .....	66
Heritage Armored Knight transistor radio .....	5
Hickok 539C trans-conductance tube tester, w/3 manuals .....	577
Hickok 870 transistor tester .....	11
Hickok tube tester .....	110
Holly Hobbie Doll transistor radio .....	22
Hewlett Packard 200B audio oscillator .....	27
Hewlett Packard 200CD wide-range oscillator, (2) .....	40
Hewlett Packard 206A signal generator .....	5
Hewlett Packard 211A sine-square wave generator .....	16



\$99 was the top bid for this 1929 Philco Model 86 lowboy console with built-in speaker.



One of three-piece Welch demonstration breadboard sets that sold for \$143.

Hewlett Packard 400E & 3400A RMS voltmeters, (5) .....	22
Hewlett Packard 411 RF millivoltmeter .....	24
Hewlett Packard 606A oscillators, (2) .....	16
Hewlett Packard 651A test oscillator, (2) .....	27
Hewlett Packard 651B test oscillator .....	38
Jewel 501, 1947 .....	22
Johnson Viking Ranger transmitter .....	88
Knight KN-812A hi-fi speaker, 12", 3-way .....	5
Lafayette LA-69 audio amplifier .....	5
Leader LSG-11 signal generator .....	16
Lear 561, 1946 .....	5
Loewe Opta 05708W, "Tempo," German .....	27
MacIntosh monaural audio amplifier, with WE tubes, NT (2) .....	522
Magnavox AM-12 .....	11
Magnavox R-205-B2, unusual design .....	5
Mantola R-654-PM, 1946 .....	115
Mantola, 2-band .....	60
Maxon 200 utility tester .....	5
Maxon WX-3 transistor weather radio .....	5
Mickey Mouse head transistor radio, (2) .....	16
Motorola 5A5 portable, 1946 .....	22
Motorola 6X .....	11
Motorola 41E, farm, 1939 .....	11
Motorola 52M1U portable, 1952, 4-tube .....	5
Motorola 55B1U, 1955, 5-tube .....	22
Motorola 56B1 portable, 1959 .....	11
Motorola 58G1 .....	16
Motorola 6500 .....	5
Motorola Custom Six .....	16
National Panasonic R-121 6-transistor radio ...	5
Newcomb R-164 4-speed record player, detachable 12" speaker, (2) .....	5, 5
Newcomb RT-S50 stereo record player, (2) detachable 6" x 9" speakers .....	16
Nordemende, German .....	5
Nordemende Turnadot, German .....	16
Olympic 5711W, German .....	5
Pepsi can transistor radio .....	44
Philco 030 dynamic tester, rare .....	16
Philco 16 tombstone, partly restored .....	159
Philco 37-620, 1937, 2-band .....	33
Philco 37-620 tombstone, 1937 .....	88
Philco 37-630, 1937, 3-band .....	27

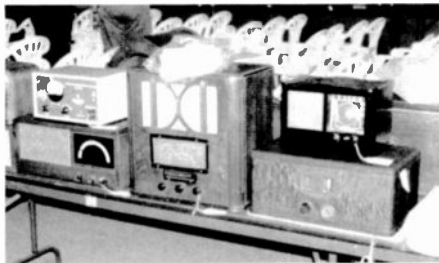


A leatherette case tube tester sits next to an Atwater Kent Model 35 that sold for \$143. Behind the Atwater Kent is a Crosley Model 629 "Gold Dial" tombstone that sold for \$154. Under the table are many of the meters for sale, some in wooden cases, some in Bakelite.

Philco 38-12, 1938, (3) .....	24, 44, 49
Philco 38-62, 1938 .....	55
Philco 38-9, 1938, (2) .....	66, 77
Philco 39-25, 1939 .....	22
Philco 39-70 tombstone, 1939, small .....	44
Philco 40-124, 1940, 2-band, PB, nice .....	71
Philco 41-235, 1941, 2-band .....	44
Philco 42-122, farm, 1942 .....	22
Philco 42-PT-7, 1942 .....	22
Philco 43-720T, 1943, 4-band, may be a proto- type, rare .....	55
Philco 46-131, 1946 .....	22
Philco 47-204, farm, 1940, (2) .....	16, 38
Philco 48-150, farm, 1948 .....	11
Philco 48-250, 1948 .....	22
Philco 48-360 portable, 1948 .....	11
Philco 48-461, 1948 .....	11
Philco 48-482, 1948 .....	55
Philco 50-920, 1950 .....	38
Philco 51-537 clock/radio, 1951 .....	11
Philco 53-956, 1953 .....	8
Philco 80 Jr, cathedral, 1933 .....	104
Philco 86 lowboy console, 1929 .....	99
Philco 90 cathedral, 1931 .....	412
Philco 610 tombstone, 1936 .....	44
Philco 630 tombstone, 1936, 3-band .....	44
Philco PT-30 .....	22
Pla-Mor radio .....	22
Polaroid 600 & color-film transistor radio .....	5
Powertat variable 12 amp auto-transformer, ....	33
Precision E-310 sine-squarewave generator ..	11
Precision Electronics Grommes audio amplifier, 7-tube .....	22
Radio Shack RP-148/175 .....	5
RCA Radiola 17, 1927 .....	33
RCA Radiola 18, 1927 .....	60
RCA Radiola 21, cabinet only, ca. 1925 .....	16
RCA Radiola 25, battery .....	143
RCA Radiola 60, 1927 .....	49
RCA Radiola 100-A speaker, (2) .....	15

RCA Victor 1-X-591, 1952 .....	22
RCA Victor 5-X-562, ca. 1955 .....	19
RCA Victor 8-X-541, 1949 .....	11
RCA Victor 9-X-561, 1950 .....	11
RCA Victor 9R71, 1949 .....	16
RCA Victor 10X "Little Nipper," 1940 .....	38
RCA Victor 34-X, 1942, 2-band .....	33
RCA Victor 55F, farm, 1946, NT .....	33
RCA Victor 66X1, 1946, (2) .....	19, 22
RCA Victor 68R1, 1947 .....	13
RCA Victor 96T1, 1938 .....	49
RCA Victor B-411 portable, 1951 .....	8
RCA Victor BP-10 portable, 1941 .....	24
RCA Victor R-7, "Superette," tombstone .....	99
RCA Victor Radiola RAE-59 radio/phono, 1930, w/microphone, disk .....	269
RCA Victor SFH-8 record player, maple cabinet .	16
RCA Victor small tube caddy .....	11
RCA Victor T-55, 1940 .....	26
RCA Victor T-80, 1939, 3-band, tuning eye ...	88
RCA Victor 3RH2G transistor radio, case chip ..	11
RCA Victor 6-RF-9, 1956 .....	27
RCA Victor WA-44C audio generator, (2) ..	11, 16
RCA Victor WR-50B RF signal generator, (2) ..	19
RCA Victor WR-69A TV sweep generator .....	5
RCA WV-98C Senior VoltOhmyst, (4) .....	22
Realistic TRC-206 CB transceivers, 2-channel, 3-watt, (2) .....	11
Realtone TR-2864 portable, 8-transistor, 2- band, in box .....	22
Regal radio .....	55
Remco crystal kit, in box .....	27
Roland 5C5 clock/radio .....	22
Rolls Royce transistor radio, 1931 .....	5
RS Statue of Liberty 12-101 transistor radio ....	5
Saal horn reproducer, ca. 1910s-1920s .....	110
Scott Stereomaster 299C audio amplifier ....	165
Seco 250 transistor & tunnel diode analyzer, (2) .....	5
Sentinel 100X .....	16
Signal Corp I-177B World War II tube tester ..	49
Silvertone 125 tombstone .....	77
Silvertone 1923 tombstone, farm .....	33
Silvertone 4204, very maroon .....	33
Silvertone 4437tombstone, farm, 2-band .....	44
Silvertone 6025, 2-band, tuning eye .....	22
Silvertone 6050, 1947 .....	71
Silvertone 6230A, farm, 1947, 3-band .....	16
Silvertone 6359, farm, 4-band .....	22
Silvertone 6425, 4-band .....	60

(Continued on following page)



Bidders were treated to a great assortment of radio-related equipment up for sale in the auction. This photo shows just a small variety during the viewing period.

(Mills Auction, continued)

Silvertone 7108, farm, 1947, 3-band .....	22
Silvertone 7115 radio/phono, 1947, with schematic, 9 tubes .....	44
Silvertone 8052, 1949 .....	19
Silvertone 9054, 1949, 6 tube, 5-band .....	16
Simpson phone lineman megohm meter, old, (2) .....	5
Sinclair 6001 gas pump transistor radio .....	19
Sonora 632 .....	5
Sony ECM-21 microphone, (2), new .....	5
Sony F-500S dynamic microphone, new .....	5
Sony F-98 cardioid microphone, (2), new .....	5
Sound Scriber dictation recorder, w/300 blank disks, NT .....	33
Stewart-Warner 13-5U2 .....	66
Stewart-Warner 900, 1929, AC .....	27
Stewart-Warner 900 console, highboy .....	88
Stewart Warner 9000B, 1947, 2-band .....	5
Superior 1150-X antique multimeter .....	5
Sylvania 219 tube tester .....	11
Sylvania tube caddy, WT (99) .....	33
Tektronix 317 3" oscilloscope, (2) .....	88
Tektronix 502A 5" dual-beam oscilloscope, w/cart, wk .....	49
Tektronix scope 82, 82, & 1S1, plug-in types ..	11
Tektronix T922 & 7704 oscilloscopes, no plug-ins .....	27
Teledyne 109, 1946 .....	16
Telefunken Caprice, German .....	27
Telefunken Gavotte, German .....	33
Telex CS-78 headset, w/microphone, (4), new .....	10
Toshiba RC-1790F LCD quartz clock transistor radio .....	5
Training radio, AC/DC breadboard, 5-tube .....	55
Trav-Ler 5008, ca. 1946 .....	22
Trav-Ler T-501 .....	11
Triplett 2432 signal generator .....	5
Triplett 2590 transistor tester, (2) .....	27
Truetone D1070B radio/phono .....	5
Tube(s): Eitel-McCullough 250TH/VT-220, g .....	137
Tube(s): Vidicon 20PE20, 8844, 4075, 20PE13A, 8541, XQ1071R, (9) .....	5
Tujunga Electric, ca. 1920s, California .....	44
U.S. Apex 32 cathedral .....	132

Universal Atomics CD V-700 Model 4 radiation monitor .....	28
WEGA 203-A8, German, 3-band, nice looking .....	22
Welch demo breadboard receiver, transmitter, power supply, (3) .....	143
Welch Scientific controlled rectifier demo, w/3B28 tube .....	55
Westinghouse H-127, "Little Jewel," "Refrigerator" radio, 1945 .....	71
Westinghouse H-171 radio/phono chairside, 1948 .....	33
Westinghouse H-334T, 1951 .....	5
Westinghouse H-393T6, 1953 .....	5
Westinghouse H-434T5, 1955 .....	5
Windsor JB-380 juke box transistor radio .....	13
Wurlitzer Lyric SW-88 tombstone, 1934 .....	49
Wycola, ca. 1920s, NT, California .....	44
Zenith 6P429, ca. 1940 .....	220
Zenith 7H922, 1950 .....	8
Zenith 8G005YT Trans-Oceanic, 1949 .....	66
Zenith A-600 Trans-Oceanic, 1957, cowhide case .....	209
Zenith A825 .....	11
Zenith C835R .....	5
Zenith Deluxe Royal 755 transistor radio, cowhide case .....	11
Zenith G730 .....	8
Zenith H511, "Consoltone," 1951 .....	44
Zenith H503Y portable .....	5
Zenith H511Y, 1951 .....	27
Zenith H724Z, 1951 .....	5
Zenith J615, 1952 .....	5
Zenith K725, 1953 .....	5
Zenith Royal "500" Deluxe long distance transistor radio, nylon case .....	55
Zenith Royal C25 transistor radio .....	5
Zenith X334, ca. 1959 .....	5
Zenith Y723, 1956 .....	5
Zenith Y724, 1956 .....	22

(Rod A. Mills, 805 Earlsville Forest Dr., Earlsville, VA 22936)

(Dill's Auction House, 1731 Allied St., Charlottesville, VA 22903. (804) 295-0199)



This photo shows the diversity of radios that were offered for sale, such as European sets, test equipment, shortwave radios, Bakelites, broadcast equipment, battery sets and wooden AC radios of the 1930s.

# HVRA Annual Convention and 20th Anniversary Celebration

## Houston, Texas — February 5-7, 1999

CONTRIBUTED BY DAVID MOORE

The Houston Vintage Radio Association (HVRA) celebrated its 20th anniversary at its annual convention, February 5-7, 1999, at the Hobby Airport Hilton Hotel in Houston, Texas. The event included technical talks by Bob Wood on restoration, and David Herlinger and Wendell Wyborny on scientific and Geisler tubes; an Old Equipment Contest featuring Motorola products; and an awards banquet, followed by a live radio presentation by Radio Daze.

There were two auctions, the first on Friday night for plastic radios, tubes, test equipment, etc., and the second on Saturday midday for wood radios, consoles, etc. Auctioneer Bill Werzner moved things along nicely. Highlights included a Philco Predicta Model 4730, selling at \$1,750 and a Zenith 15S373, at \$1,300.

g=good, wk=works, nwk-not working, WT=with tubes, NT=no tubes, N.O.S.=new-old stock, N.I.B.=new in box, unk=condition unknown

Accurate Instrument Co. 157 tube tester .....	\$20
Airline 65-228 (?) tombstone .....	85
Airline AM/SW table, wood .....	36
Airline cathedral .....	40
American Bosch, w/horn .....	310
Atwater Kent 20, big box battery .....	42
Atwater Kent 35, missing (1) tube .....	44
Atwater Kent 36C, converted to AC, wk well ...	190
Atwater Kent 40 .....	20
Atwater Kent 46 console, speaker, nwk, g ...	140
Atwater Kent 55 console, wk well .....	90
Atwater Kent 56, NT .....	26
Atwater Kent horn, good driver .....	175
Atwater Kent L chassis, #70 cabinet .....	170
Brandes console .....	120
Crosley V, wood, cute .....	70
Crosley 148 cathedral .....	90
Crosley Elf cabinet, Repwood .....	55
Crosley Gembox .....	20
Delco R-1116, wk well .....	70
Emerson 503 table, wood, nwk .....	20
Eveready II, green metal .....	120
Fada battery set, WT, g .....	85
Freed-Eisemann 807 .....	80
GE T-278 tube radio .....	18
Gloritone 999 cathedral .....	110
Grebe Synchrophase, WT, drive gone .....	110
Grundig radio .....	75
Grunow 588 table .....	80
Guild Town Crier .....	65
Hallicrafters SX-99, wk well .....	100
Hallicrafters TW2000 portable .....	85
Leach stereo amp .....	70
Lloyds 8-band, wk well .....	26
Magnavox R3 horn driver .....	75
Majestic 50 (?), very heavy .....	75
Majestic 71 highboy .....	80
Majestic 90 console .....	80
Majestic 90-B, wk well .....	110

MacKay VLF receiver .....	90
Monarch telephone, the real thing .....	180
National clock .....	150
Nordmende .....	85
Novelty radios, (2), jukeboxes .....	120
Olympic AM/FM/SW table, European .....	50
Pacent cone speaker .....	150
Philco 27-610, nwk .....	280
Philco 39-40 console, clean .....	75
Philco 42-321, nwk .....	24
Philco 42-380 console .....	22
Philco 45 .....	75
Philco 71 cathedral .....	155
Philco 84 cathedral .....	100
Philco 90 console, nwk .....	110
Philco 620 cathedral .....	95
Philco 4730 Predicta TV .....	1,750
Radiola Balanced Amplifier, WD11 .....	290
Radiola III, WT .....	340
Radiola III-A, WT .....	210
Radiola R-7, wk well .....	70
Radiola UZ-1325, (2) .....	200, 310
RCA 3X521 table, brown Bakelite .....	20
RCA 5T tombstone .....	85
RCA 8X541, brown Bakelite, wk well .....	20
RCA R-70, wk until taken apart .....	100
RCA Radiola 18 .....	5
RCA Radiola 80 .....	150
RCA Radiola 100A speaker .....	55
Saba table, European .....	30
Shure 55 SW microphone .....	180
Shure 55 SW, N.I.B. .....	160
Stewart-Warner console, nwk .....	30
Stromberg-Carlson 1101-H table, wood .....	70
Stromberg-Carlson 1400, white plastic .....	75
Stromberg-Carlson, mirror-top, 1936 .....	170
Truetone 725, wk well .....	44
Ultra H driver, N.O.S. .....	50
Victor talking machine, wk well .....	80
Waterson 524, (2) .....	20, 22
Webcor radio/phone/wire console .....	100
Zenith 5G504 portable .....	20
Zenith 5S230 chairside .....	100
Zenith 6D627, wood .....	36
Zenith 6S147 chairside, unk .....	310
Zenith 6S439, bad dial, wk .....	70
Zenith 15S373 .....	1,300
Zenith chairside, (restored), wk well .....	180
Zenith H-500 Trans-Oceanic, nwk .....	50
Zenith Trans-Oceanic, (3) .....	55, 70, 80
Zenith Trans-Oceanic 3000-1 .....	55

(David Moore, 3213 Regal Oaks, Pearland, TX 77581)

For general information, the HVRA address is P.O. Box 31276, Houston, TX 77231. The club publishes "The Grid Leak" monthly and holds monthly meetings and special regional events. Dues are \$20. To inquire about membership in HVRA contact David Moore at the above address.



## Electro-Dynamic to Permanent Magnetic Speaker Conversion

BY JERRY WIELAND

While restoring a Stewart-Warner 953 console, I came across a problem that I had never encountered before. Although the speaker appeared to be in perfect condition, the field coil was open. I was able to disassemble the speaker until the coil was visible. Although I found one winding break quickly, repairing it did not solve the problem. I finally gave up trying to find another break in the thousand turns remaining.

I had a number of options at this point:

1. Advertise in A.R.C. for an exact replacement speaker.
2. Find a replacement field coil.
3. Replace this speaker with a permanent magnetic type.
4. Replace this speaker with another electro-dynamic type.

I tried a permanent magnetic speaker, and it worked, but mounting it would require some cabinet modifications. Since my original speaker was in good condition, I wanted a solution that allowed me to use my original. I decided to try a conversion to a permanent magnet type.

### THE CONVERSION PROCESS

First, I removed the 1-inch diameter steel rod that directed the field coil flux into the voice coil area. In the now vacant hole in the voice coil windings, I experimented by inserting magnets that I had found around the house. Most were flat bar magnets that fit in the voice coil cylinder so I could vary the position around the voice coil while tuned to a station on the now working 953 chassis. I found that the speaker volume would increase to a point as the magnet was inserted, but then would decrease when inserted further. Stronger magnets yielded more volume.

The strongest magnet I found would lift a 5-pound weight, though it was only 1.5" long x 1" wide x 0.38" high. Since it would not fit into the 1" diameter voice coil cylinder, I tried mounting a steel bolt to the center and inserting this bolt into the hole. This directed the magnetic flux into the hole and proved to work well.

I superglued the bolt to the magnet and added some hot melt glue to the hole in the bolt

to further anchor it to the magnet. I then positioned the bolt in the center of the voice coil cylinder and hot-melt glued the magnet to the speaker frame, as shown in Figure 1. The bolt protrudes about 0.5" into the voice coil.

When I reassembled the field coil cover, the speaker looked original from the rear. The audio quality is very good, and this modification didn't cost me anything but time.

Usually the field coil is in series with the B-voltage power supply. When the field coil is eliminated, it must be replaced with an equivalent choke or resistor. In the Model 953, however, this coil is in a shunt circuit to ground. It can be eliminated without replacement. As a safety precaution, I disconnected the high voltage lead in the radio to the field coil because this terminal was exposed on the speaker frame.

I hope this article encourages others to salvage old speakers with open field coils rather than replace them. Some experimentation with magnet strengths and orientation will be necessary, but the results are worth the effort.

*(Jerry Wieland, 780 Charleston Ln., Hoffman Estates, IL 60195)*

*Jerry Wieland is an electrical engineer working in cellular phone development at Motorola. His interest in old radios began at age 12 when he started to listen to shortwave broadcasts on a 1930s Silvertone console.*

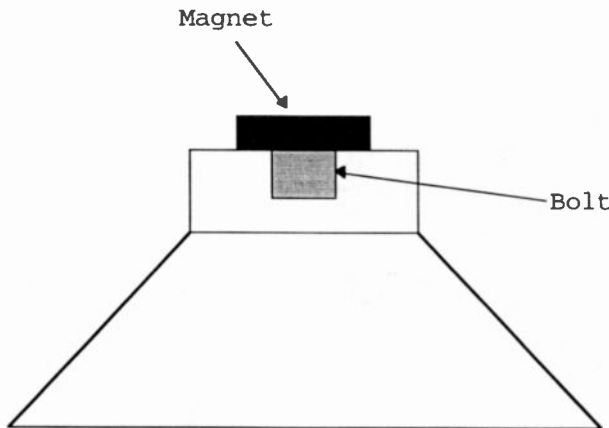


Figure 1. The bolt and magnet attached to the speaker.





## BOOK REVIEW

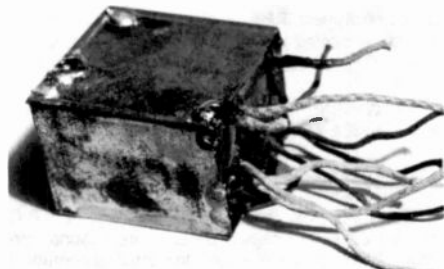
### *Philco Condensers and More* by Ray Bintliff, W1RY

REVIEWED BY CHUCK SCHWARK

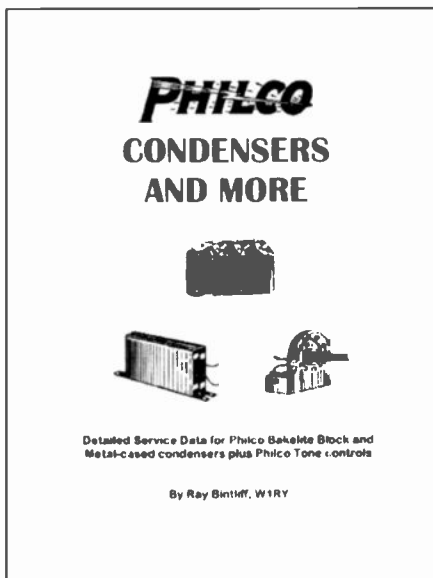
This expanded update to Ray Bintliff's original 1994 publication, *The Radio Collector's Guide to Philco Bakelite Block Condensers*, will be a welcome addition to anyone's service and repair library. In this brand new 1999 edition, Ray has not only updated the Bakelite block section, but also added two new sections dealing with other Philco condensers most often found during restorations — metal-cased condensers and Philco tone-control assemblies.

The original Bakelite block book, now Chapters 1 and 2, has updated information regarding the different Bakelite block types. It also has an expanded section on rebuilding these unique radio components. Included in the rebuilding are safety tips for removing the old tar-impregnated contents and pictures, as well as descriptions of tools Ray uses to make the job much easier.

The original pictorial section and part number listings have been condensed (pun intended) into a more readable format for finding the correct terminal layouts and condenser values. The original edition required flipping back and forth between the diagrams and the parts listing tables.



An example of a Philco multisection, metal-cased capacitor, which is covered in this book.



Now the part values are printed right along with the Bakelite block pictorials. As a result, the number of pictorials has increased, making identification of any Bakelite block condenser a snap.

The metal-cased condenser is the subject of Chapter 3 and covers the three most often encountered types. As with the Bakelite block section, there is a parts listing, as well as pictorial diagrams for these components. Some omissions in the listing are due to incomplete or unconfirmed information on a few types. Philco was notorious for not organizing this type of service information. Where known, color codes for

the wire leads are shown in the diagrams.

In Chapter 4, Ray goes into great detail on Philco tone controls, which are a combination of multisection mechanical switches with embedded condensers, similar to Bakelite blocks. The information provided on the construction and electrical connections of these units is carefully detailed. Ray also provides simplified schematic diagrams for typical tone-control circuits taken from Philco service bulletins. There are 28 pictorial diagrams for the various tone controls.

Philco never put this type of service information into any kind of booklet or engineering bulletin, and this publication is a valuable resource to fill the gap. This is an excellent book that will be a constant companion for the collector and restorer working on vintage 1930s Philco radios.

*Philco Condensers and More*, first edition, 1999, is available in a softbound, 68-page, 8½" x 11" format with 300 illustrations. Priced at \$14.95, it may be ordered from *Antique Radio Classified*. Please check with A.R.C. for ordering and shipping information.

(Chuck Schwark, 7454 N. Campbell Ave., Chicago, IL 60645-1649)



# RADIO MISCELLANEA

"Radio Miscellanea" includes items of general interest selected from A.R.C.'s incoming correspondence. "In The Marketplace" items are based on information submitted by the businesses themselves. "From The Internet" items are obtained from internet newsgroups and other internet resources. Submitted items should be verified for accuracy; items may be edited by A.R.C. for publication, and publication is not guaranteed. See the masthead for more details.

## Shenandoah is in Iowa

Dear Editor:

Hi, everyone. I am a fugitive from the state of Iowa (51 years ago), and if I read the article on Chevie Crandell in the October 1999 issue right, I think he meant to say Iowa instead of Nebraska in reference to KFNF. KFNF was located in Shenandoah, Iowa, not Nebraska.

This station was daily fare at our house in Okoboji, Iowa, along with WHO, KSOO, and other old-time stations. Thanks all.

Ervin Reed, Union, OR

We appreciate the correction. The Nebraska City Municipal Band was obviously a Nebraska institution. Just down the road over the border was Shenandoah, Iowa, where KFNF was located. (Editor)

## Power Supply IC Source

Dear Editor:

It's not a big deal, but upon receiving my October issue, I decided to build the battery supply featured in Robert Enemark's article on a power supply for battery and portable radios. However, I noticed that the parts list does not list the IC used. It is in the text, thank goodness, and described generally as a Type 4001, so I guess that's what has to be used.

Duffy Edwards, Roeland Park, KS

U-1 is a Type 4001 IC and should be available from a number of sources. However, the most convenient source may be Radio Shack. Their part number is 276-2401, and the current catalog price is 99¢ each. (Editor)

## A.R.C. Reaches Wider Audience

Dear Editor:

Friends have contacted me in response to your publication of my letter about the April cover in the July A.R.C. In fact, one of them said he was going to subscribe to the magazine as a result. My letter was reprinted in the newsletter of a club my wife belongs to, and one of the other members mentioned that a relative, a radioman in the Navy, had also found interesting my memory of learning Morse code and using a hand key.

You are doing a good job with your magazine. I have dropped membership in a club but plan to continue with your magazine.

Guisepppe "Zep" Bennet, Oakland, CA

We're always glad to hear that a radio-related topic has touched a wider audience. (Editor)

## "Radio for Dummies" Anyone?

Dear Editor:

I've subscribed for a couple of years and really enjoy your publication. While I buy an old radio now and then because I like the way they look, I don't know beans about the basics of how they work. Is there "Radio for Dummies" out there?

Terry Savage, Cranford, NJ

## Seeks Corbett Radio Cabinet Info

Dear Editor:

My grandfather, Raymond J. Pontzer, started Corbett Cabinet located in St. Marys, Pennsylvania, around 1926. Beginning about that year, Corbett manufactured radio cabinets. Having found your Web site on the Internet, I hoped you might have some information on these cabinets and/or pictures you could share with me. Thank you.

Mary H. Detsch, Lebanon, NH

Please send any information to A.R.C. (Editor)

## Internet Ads Fantastic!

Dear Editor:

Your Internet classifieds are fantastic! They are well worth the wait. Excellent!

Roland Frolund, Turlock, CA

## Web Photo Review Needs Update

Dear Editor:

Please take the time to update the Photo Review section of A.R.C. regularly. It is a pleasure to visit your Web site, but the same old radios pop up every time I check.

R. Frolund, Turlock, CA

Others must be disappointed also because these are some of our most visited pages. We are eager to update "Photo Review," but to be useful, it has to be searchable. That capability is definitely on our "to do" list. (Editor)

## Posting Ads Online Date

Dear Editor:

When will submitted ads go online in any given month? Let's say you receive an ad on August 5 for the September issue. Will this ad be seen online before September 1 or when?

Tom Miller, London Terrace Station, NY

Our current plans are to post the ads on what we call "target date" — a date after all magazines have been mailed. It is the first date that a subscriber could expect to receive his copy. The "target date" is not the same day every month. Using your example, if we received an ad on August 5 for the September issue, that ad would be posted online on the target date for the September issue, which this year was August 30, 1999.

Our plans are to post the target date itself on our web site at least a week before it occurs. (Editor)

## Internet Difficulties Appreciated

Dear Editor:

Good luck with the cyberspace edition of A.R.C. Since I do all my pages, photos, descriptions, wire production, etc. myself, I know that Internet operations are another nightmare. I can imagine what you're going through, even with the support of a busy staff.

Charlie Days, S. Dartmouth, MA

# CLASSIFIED ADVERTISEMENTS

**WANTED:** American Bosch Model 595 broadcast, white, band antenna coil or centr-O-matic unit. John Cushing, 3605 Overhulse Rd. NW, Olympia, WA 98502. (360) 866-4905

**WANTED:** Old brass gadgets. Scientific and medical apparatus. Antique brass microscopes. Allan Wissner, Box 102, Ardsley, NY 10502. (914) 693-4628. E-mail: wissner@bestweb.net

**WANTED:** Early crystal sets and detectors. Unusual horn and cone speakers. Advise what you have. Ed Bell, 5311 Woodsdale, Rd., Raleigh, NC 27606. Ph./fax: (919) 851-1517. E-mail: ekbell@mindspring.com

**WANTED:** The book Experiments with Electricity and Wireless Handicraft by Thomas St. Johns. Robert Stapleford, 1800 S.W. Randolph Ave., Topeka, KS 66604-3158

**WANTED:** 1931 Zenette chassis for cathedral Models AH or LP (M.A.J.A. 2, p. 326). James J. McGrath, W2IOJ, 2 Centerview Ln., West Seneca, NY 14224-2124. (716) 675-0160. E-mail: w2ioj@yahoo.com

**WANTED:** Radiola III receiver. Must be in good operating and mechanical condition. Ed Pyatt, 10-B Bainbridge Ave., Hampton, VA 23663. (757) 723-0148. E-mail: edpyatt@hotmail.com

**WANTED:** Phonograph related advertising items: Vogue picture records, original dealer advertising from Edison, Victor, Columbia. Needle tins and cutters, Nipper advertising items, calendars. Record brushes and dusters. Pocket advertising mirrors. Dealer lapel pins, posters, puzzles, fans, broadsides. Edison, Columbia, and any Wax cylinder records. Phonograph toys, toy phonographs. Thanks. Bernie Seiberg, 714 Moredon Rd., Meadowbrook, PA 19046-1907. (215) 886-6124. Fax: (215) 638-2265. E-mail: phonoman-bernie@worldnet.att.net

**WANTED:** 1920s headphones, headphone literature, phone plugs. Please include asking price. Bob Sukosky, 62 Strong St., Manchester, CT 06040. (860) 646-8857, 5 to 9:30 pm EST

**WANTED:** National HRO-5A1 coil sets E (900-2050 Kc) and F (480-960 Kc). Don Barsema, 1458 Byron SE, Grand Rapids, MI 49506. (616) 451-9874. E-mail: dbarsema@prodigy.net

**WANTED:** Microphones wanted. Top prices paid for: RCA 44 BX, RCA 77 DX, RCA KU 3A, WE 639. Also: RCA On Air lights and RCA Recording lights. Fast and courteous service. Bill Bryant Management, 955 Davidson Dr., Nashville, TN 37205. (615) 352-3456. Fax: (615) 352-1922. E-mail: billbryantmgmt@home.com

**WANTED:** I will buy whole package and loaded in my van. Theater tube amp prefer. Wayne, Wen Hsin, 1560 Via Leon, Palos Verdes, CA 90274. (310) 377-0056. E-mail: wenh@jps.net

**WANTED:** Yellow Catalin knob(s), one or two, for a Garod Commander 6AU1 radio. Thank you. Peter Jaber, 281 McDowell St., Asheville, NC 28803-2056. (828) 277-2060

**WANTED:** Large Zenith tombstones, 6v or 110v models. Lee Beyer, 711 Ruth Ave., Holland, MI 49423. (616) 335-2461

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A.R.C. Advertising Policy  
Sellers and Buyers, Please Note!  
.....  
Advertising is accepted only for early items related to radio, communication, etc. All items must be described fairly; reproductions, reprints and not-original items must be so identified. Advertisers must agree to respond promptly to inquiries and orders, to resolve problems promptly if the buyer is not satisfied, and to comply with a buyer's refund request on unaltered returned items.  
.....

**WANTED:** Crosley 77B, need chassis, speaker and phono. Also looking for Grebe M1-2 Lowboy, need cabinet and speaker. Thanks. Alan Kallvas, 7 Anderson St., Peabody, MA 01960-3713. (978) 535-8175

**WANTED:** Zenith portables 5G401, 6G501, 6G601, 4K400, 7G605. Carl Steinberg, 5 Cannan Rd., Monsey, NY 10952. (914) 352-0701

**WANTED:** Canadian Marconi advertising items; also seeking Stewart-Warner dancing girls speaker. Bob Uhelski, 21015 Meadowlark, Farmington, MI 48336-5061. (248) 615-1828. E-mail: uhelskir@ia.bloomfield.org

**WANTED:** Pilot #1611 .00016 mFd. variables, #130 RF choke, set of broadcast coils, blue. Bill Jelinek, 3985 Manor Loop, Rhinelander, WI 54501. (715) 362-2909

**WANTED:** Western Electric 7A amplifier. Damaged or missing box is OK. Eric Lenius, PO Box 685, Port Orchard, WA 98366. (360) 871-5921, 6 to 9 pm PST. E-mail: lenius@tscnet.com

**WANTED:** Lafayette HA-150 portable CB. FOR SALE: Vintage tube CBs. LSASE for list. Charles Zafonte, N1FRX, RR3 Box 2075, Fort Kent, ME 04743. (207) 834-6273, eves./weekends only

**WANTED:** Sams for Hallicrafters SX-25 receiver. Dennis Olmstead, WB9EMD, 431 Ridgewood, Glen Ellyn, IL 60137. Ph./fax: (630) 469-0531

**WANTED:** Tube CB sets by Philmore, Browning, Squires-Sanders, Tram, Radson, Lafayette, Demco, Courier. Charles Zafonte, N1FRX, RR3 Box 2075, Fort Kent, ME 04743. (207) 834-6273, eves./weekends

**WANTED:** Stromberg-Carlson Model AWP-8 with a set of good IF transformers. Set needed for parts. Gino Lombardo, 10 Edgemont Ln., Bedminster, NJ 07921. (908) 781-6726

**FOR SALE/TRADE:** Channel Master 6512, 6506, Eico 2200 tuner, Simpson 260 vom for ham equipment. Joseph Bedlovics, PO Box 139, Stratford, CT 06615

**FOR SALE:** Nuvistors. Need Nuvistors? Selling N.O.S. stock 2DV4, 6CW4 etc. Also used Nuvistors. Inquire. Maurer Television, 29 S. 4th St., Lebanon, PA 17042. (717) 272-2481

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If you renew **before** the month shown on your mailing label (your expiration month), you will receive an extra month on your subscription: 13 months instead of 12! 26 months for an early 2-year renewal!

**FOR SALE:** Western Electric 100F loud speaker set, 11" x 7" x 5" wood case, 3 tubes, photos - BO. Bob Puttre, 637 Stratford Rd., Baldwin, NY 11510. (516) 223-9667

**FOR SALE:** Perfect for Christmas, sterling silver charms shaped like: Addison A2A - \$10 + \$2 ship; and 1950s EV mike - \$6 + \$2 ship. Radio sale 25% off all on 11-page list. Dave Sutherland, PO Box 201, Spofford, NH 03462. (603) 363-4459. E-mail: echocove@cheshire.net

**FOR SALE:** Catalin RCA radio Model 9X14, 1939, right dial-left cloth grill w/ "W" cutout, 2 knobs rhs, AC/DC, good cond., works, (Bunis 92, p. 149), asking - \$800. Belmont 6D111 table radio 1946, white plastic streamlined, right hand dial set of pushbuttons, lhs horizontal louvers, side knobs, works, needs alignment, good condition, (Bunis 1992 p. 35) asking - \$250. Belmont 6D111 chassis, no cabinet asking - \$150 plus shipping. J.J. Papovich, 165 Trellis Ln., Sewell, NJ 08080. (856) 464-4741. E-mail: jjpapo@juno.com

**FOR SALE:** Dual Electrolytic capacitors, 50-30 MFD at 160 VDC - \$3.75 each for 4 or more. Includes P&H. Many other types in stock. Also new manufacture stud mount, clamp mount, twist prong, and octal based capacitors. Call or write for free flyers. DH Distributors, PO Box 48623, Wichita, KS 67201-8623. Ph./fax: (888) 684-0050



**FOR SALE:** M&M AM/FM animated radio, with body hands and eye movement and a 28 second animated character voice announcement. It is light sensor activated with demo or activate switch. M&M Blues character opens and closes his eyes, his arms move up and down and his body moves side to side. Blue says "Hey all you cool cats and dolls, your listening to the soothing groovin' blue guy. So stress less kick back and enjoy talkin tones of yours truly. That's right folks this shows dedicated to the spoken word of Blue, Blue M&M's baby. Yeah" - \$39.95 + S&H. Please stop by for a visit at my web site at <http://www.radioattic.com/attics/martin.htm>. Ben Martin, 18334 Pepper St., Castro Valley, CA 94546-2319. (510) 582-6804. E-mail: bensradios@aol.com

**FOR SALE:** Radio Boys to the Rescue, reprint - \$30. Other titles, and dust jackets available. Jim Towey, The Adventure Continues, 249 Hartland Rd., West Granby, CT 06090. (860) 653-7447. E-mail: toweyj@aol.com, <http://members.aol.com/brentwooda>

## FOR SALE

Lifetime collections of antique and classic radios and phonograph records. Everything from crystal sets to 16 tubers. Includes Grebe, Freshman, RCA, Zenith Aviatrix, Philco 116X and two doz. horn and magnetic speakers. Records include 20k 78s, 5k LPs and 4k 45s; also some Edison cylinders.

Would prefer to sell collections of radios and records at reasonable lot prices.

Grant Canfield

1950 W. Dry Creek Rd., Healdsburg, CA 95448

Phone: (707) 431-7706 Fax: (707) 431-2514

**WANTED:** General Radio Type 1670-A magnetic test set. Ross Wollrab, 9990 Holly Ln., Apt. GS, Des Plaines, IL 60016-1428. E-mail: rewollrab@aol.com

**WANTED:** Detrola consoles, with/without phonograph. Detrola tabletops with large round Network dial. Scott Flaucher, 41100 Plymouth Rd., Plymouth, MI 48170. (734) 737-4221. E-mail: scott.flaugher@unisis.com

— WANTED —

**PICTURES FOR PHOTO REVIEW OR TELEGRAPH REVIEW  
PHOTOS MUST BE SHARP IN DETAIL  
A SHORT DESCRIPTION IS A MUST!  
SEE PHOTO REVIEW PAGES FOR  
ADDITIONAL INFORMATION**

**WANTED:** Jewell tube checkers and literature. Bill Jewell, 3800 Ridgehaven Rd., Fort Worth, TX 76116. (817) 377-4664. E-mail: OldRadios@aol.com

**WANTED:** Sams record changer manuals 11, 12. Also dial cord stringing guides 3-8. Gregg Humanic, 540 Wicklow Ln., Monroe, OH 45050. (513) 539-8926

**WANTED: Chrysler Highway hi-fi record players, 50s 45 rpm records, record cutting machines, professional sound equipment. Kim Gutzke, 7134 15th Ave. S, Minneapolis, MN 55423. (612) 869-4963**

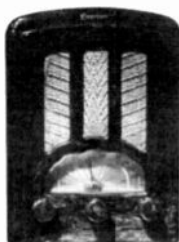
**WANTED:** Handle for Zenith Trans-Oceanic D7000Y, also need manual in front lid. Jim Montague, 1907 S. Stanley Ln., Spokane, WA 99212. (509) 535-9576

**WANTED:** One tube receivers with exposed tube. Will pay top price. Ed Bell, 5311 Woodsdale, Rd., Raleigh, NC 27606. Ph./fax: (919) 851-1517. E-mail: ekbell@mindspring.com

**WANTED:** Zenith console Model 9S263, cabinet and speaker for Zenith 9S262. Jim Moffett, 218 Shannon Lee, San Antonio, TX 78216

**WANTED:** Dial cord stringing plan for Silvertone Model 6424 serial #361214. Alex Guilianni, 503 W. Burton, Gillespie, IL 62033. (217) 839-3259

**WANTED:** Grunow six tube or better tombstone. GE K-64 or RCA 121 cathedral. Mark Hewitt, 6659 Tipperary Trl., Roscoe IL 61073. (815) 623-8729



**WANTED:** Emerson Catalin radios. Nobody pays more than I. What an arrogant and inaccurate thing to say. I mean, like there isn't anyone wealthy enough, dumb enough, desperate enough — or any combination of the three — to pay even a dollar more than I would pay. I mean, c'mon, who am I trying to kid! Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

**WANTED:** Old electro-therapy equipment, violet rays, neg. ion generators, etc. H. Andreoni, c/o 250-D So. Lyon Ave., Hemet, CA 92543. (909) 849-7539

**WANTED:** (2) Zenith chassis, speakers, knobs. Model 8-S-154. Eddie Enrique, 1824 Wylie Dr., Modesto, CA 95355. (209) 576-8170

**WANTED:** Heathkit VF-1 VFO, HG-10 VFO, SB-400 or 401 transmitter, Kenwood R5990 receiver, T599D transmitter. Rick Harrison, WA2ODI, 140N. Putt Corners Rd., New Paltz, NY 12561. E-mail: harrisonmail@worldnet.att.net

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For a fax listing of prices and availability, write to me or fax your request to  
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**FOR SALE:** (28) European radios for sale, for complete list send SASE. RGB Enterprises, PO Box 5367, Old Bridge, NJ 08857. (783) 607-0299. E-mail: Rgbent@aol.com

**FOR SALE:** Box of (20) TV hi-voltage rectifier tubes for television restorers, new old stock, popular numbers - \$18/box plus shipping. Maurer Television, 29 S. 4th St., Lebanon, PA 17042. (717) 272-2481. E-mail: radiobks@aol.com

**FOR SALE:** (45) tubes N.I.B. - \$60 ea. Lab test in box, new - \$55 ea. + shipping. J.J. Papovich, 165 Trellis Ln., Sewell, NJ 08080. (856) 464-6741. E-mail: jipapo@juno.com

**FOR SALE:** New tubes. Ever spend hours surfing the net for the tubes you need only to lose a bidding war? Let me help. Send a SASE for my list of new old stock inventory with prices. Jeff Arndt, 1215 Division St., Manitowoc, WI 54220-5734. (920) 684-8830

**FOR SALE:** Sentinel 284 Catalin glass dials; again available and perfectly reproduced - \$23 ea. ppd. Send to: Radioart, PO Box 102, Centerbrook, CT 06409

**FOR SALE:** Have 1,500 transistor radios. List is many pages. Will mail or e-mail. Doug Ferrero, WB8YNZ, 70173 Hillside Ct., Romeo, MI 48065. (810) 336-0120. E-mail: ynzdsd@bignet.net

**FOR SALE/TRADE:** 1936 Ideal portable record cutter; Wilcox-Gay w/Catalin arms. **WANTED:** International Kadettes, Detrolas, Spartans. Ken Nevins, Nevins Museum of Radio, 406 Jipson St., Blissfield, MI 49228. (517) 486-3019, evenings please. E-mail: knevins@tc3net.com

**FOR SALE:** Western Electric oscilloscope BC-412-B made for U.S. Army. Guido Montella, 2714 Charleston Dr., Plant City, FL 33565. (813) 752-7174

### Classified Ad Deadline Noon

Dec. 10 for Jan. 2000 Issue

Jan. 10 for Feb. 2000 Issue

Boxed, Photo, & Display Ads - 1st

**FOR SALE:** Collins, Hallicrafters, National, Star, and Hammarlund receivers; Collins, E.F. Johnson, Star, and B & W transmitters; Heathkit transceivers. Allen Richmond, 6904 W. Corrine Dr., Peoria, AZ 85381. Ph/fax: (623) 486-4793. E-mail: arichmond@webtv.net

**FOR SALE:** Sams 1977-3089 unused - \$2 plus postage. Joe Koehler, 1919 W. Nimsila Rd., Clinton, OH 44216. (330) 882-5281

**FOR SALE:** Free for beginning radio and amplifier enthusiasts: power and filament transformers, chokes and PM speakers, 4 to 15 inches diameter. You must pick up! Also free: Nakamichi 1000, mint unrestored condition. Thanks. John Eckland, 969 Addison Ave., Palo Alto, CA 94301. (650) 323-0101

**FOR SALE:** N.I.B. Polaroid AM/FM novelty radio - \$12 ea. shipped. Leroy Marshall, 1178 Foxboro Ln., Bartlett, IL 60103. (630) 483-8833. Fax: 8834

**FOR SALE:** Shure 520 green bullet microphone w/ matching stand. Also 1 for parts - \$300 all. Mark Schackow, 307 4th Ave. E, Lemmon, SD 57638. (605) 374-3424

## I buy Western Electric

“What do you want to sell me today?”



### Chong Ong

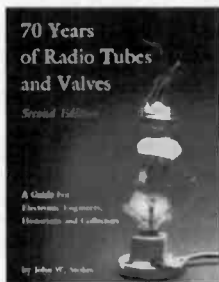
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e-mail : ongkt88@erols.com

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Oakton, VA 22124



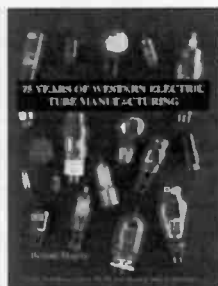
# Books About Tubes

Happy Holidays from A.R.C.  
Thru December 31st, U.S. book-rate  
shipping upgraded to Priority Mail



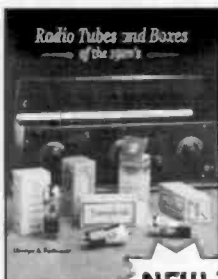
**70 Years of Radio Tubes and Valves, 2nd Ed., Stokes.** *The thermionic vacuum tube story from 1883 through 1960. New chapter on audio application tubes, more photos, magazine ads and a new index by tube number.* 264 pgs. — \$29.95

**75 Years of Western Electric Tube Manufacturing, Magers.** *A log book history. 750+ WE tubes. Illustrated.* 133 pgs. — \$16.95

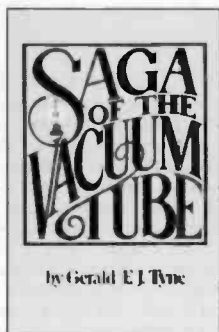


**Tube Lore, Sibley.** *Trends in tube design, receiving and audio tubes, special-purpose and transmitting tubes, military types, tips on testing, repairing, adapting various tubes, auction prices from six major sales.* 186 pgs. — \$19.95

**Radio Tubes and Boxes of the 1920s, Fathauer.** *A pictorial presentation of radio tubes of the 20s, including packaging and advertising. Over 400 color photos and illustrations.* 105 pgs. NEW — \$26.95



NEW



**Saga of the Vacuum Tube, Tyne.** *The development of vacuum tubes - 1880 to 1930. From Edison, Thomson and Fleming to DeForest, Philips, Siemens and many more.* 100+ tube photos. 495 pgs. — \$18.95

**TubeData, Holm.** *The most comprehensive list of vacuum tubes and data in an easy-to-use program for PCs. 27,000+ tubes, includes receiving and transmitting tubes. Lists function, manufacturer, technical data, & more.* (3 1/2" disk). — \$39.95



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(Dec-99)

**FOR SALE:** RCA Model 1-X-53, green plastic table radio, mint - \$50. 1950 GE TV. Jeff Gentry, 708 Locust Ave., Charlottesville, VA 22902-4913. (804) 979-0699

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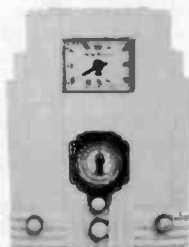
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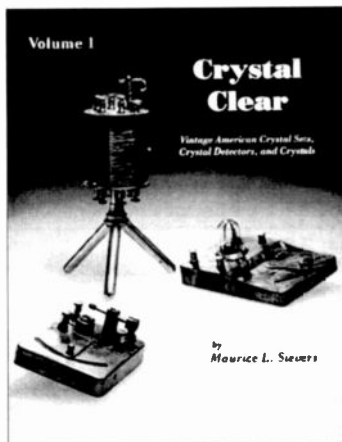
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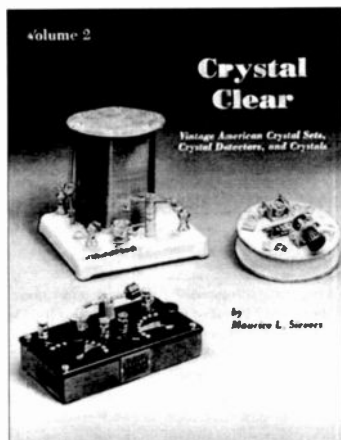
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(Dec-99)

**FOR SALE:** (49) copies Radio Age, April 1988 to October 1992 - \$24 plus \$4 UPS. R. J. Eastwick, N2AWC, 400 N. Haddon Ave., Unit 109, Haddonfield, NJ 08033. (856) 429-2477

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**WANTED:** Atwater Kent H, L, and M parts speakers. Mark Murphy, 300 N. State St. #2101, Chicago, IL 60610. (312) 467-4205. E-mail: PliscoCal@aol.com

**WANTED:** Bendix Model 853 and 953 radios. Radios need not work. Aaron Mall, 903 Dropleaf Ct., Baltimore, MD 21208. (410) 486-8813

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**WANTED:** Zenith 1937 console, Model 6S152. Dennis Craft, 10513 E. Clinton St., Scottsdale, AZ 85259. (602) 860-8951. E-mail: dcraft@uswest.net

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**WANTED:** Small Emerson Midget, about 1937 wood looks like violin. Dennis Olmstead, 431 Ridgewood, Glen Ellyn, IL 60136. Phone/fax: (830) 469-0531. E-mail: wb9emd@aol.com

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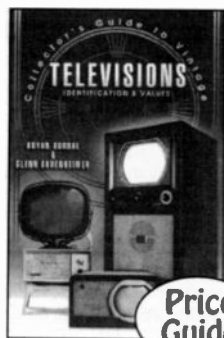
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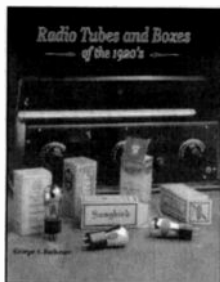
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**FOR SALE:** 12 page brochure E.H. Scott Radio Cabinets, copyright 1935, appears original - \$100. L. Schimmel, 17411 Yakima South, Spanaway, WA 98387

**WANTED:** Edison console radios, radio-photographs, parts and literature. David White, 9 Crestbrook Dr., Arden, NC 28704. (828) 687-9748. E-mail: whitebd@worldnet.att.net

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**WANTED:** Schematic, service data and year of manufacture for Newcomb AV-1200 AM/FM portable hi-fi radio, ca. 1959. Thanks and happy holidays for 1999! Michael K. Tremper, The Vacuum Tube, Ltd., 110 Lynncrest Ter., Cheektowaga, NY 14225. (716) 834-9190

**WANTED:** Fairchild limiting amplifiers Model 660, 670. Units. Schematics parts layout. Have money. Verne Teske, 3260 Carol Ct., Oak Creek, WI 53154. (414) 762-3235

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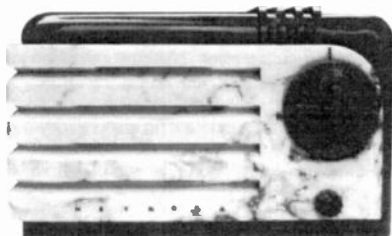
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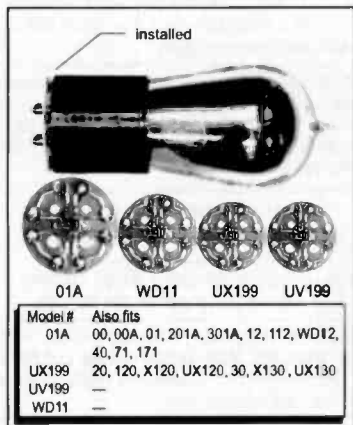
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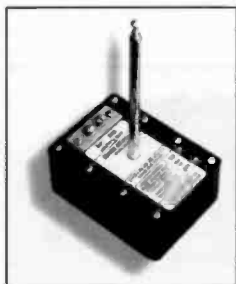
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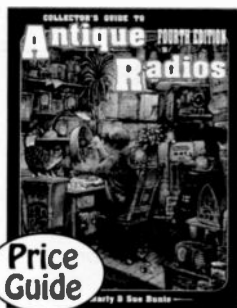
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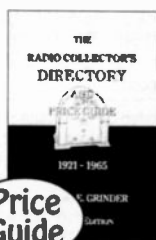
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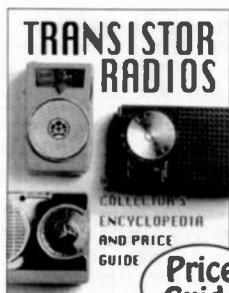
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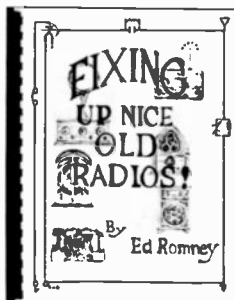
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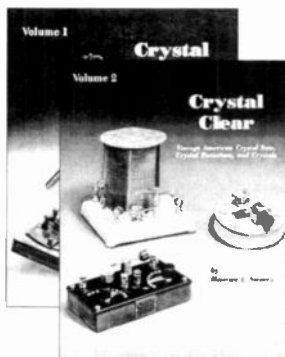
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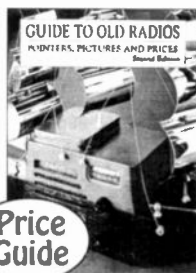
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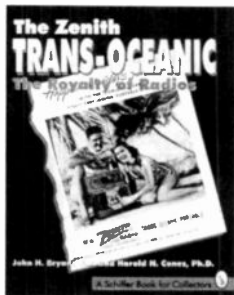


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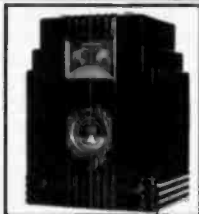
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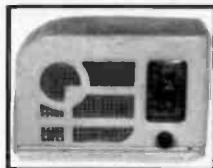
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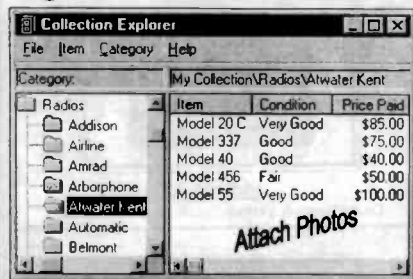
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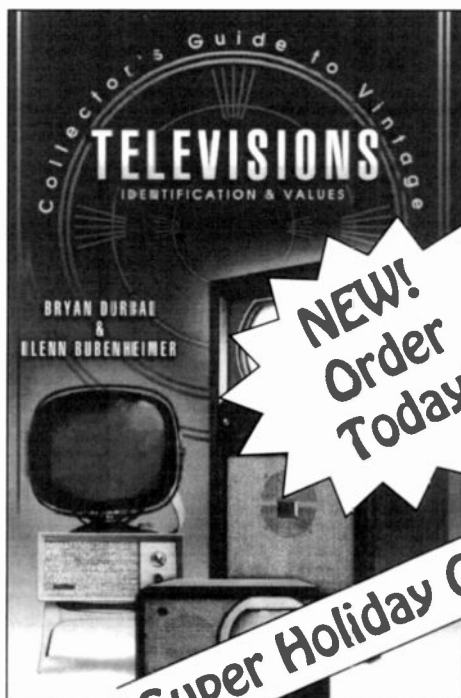
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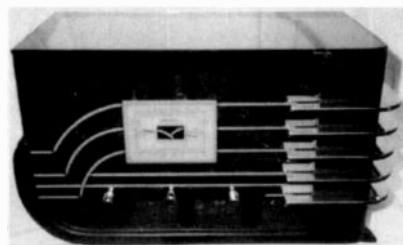
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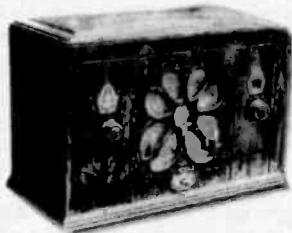
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**WANTED:** Stancor powertrans. PC-8413. National R-1490, HRO-600. Michael Kruger, 152 N. 12th Ave., Upland, CA 91786. Ph./fax: (909) 946-6708. E-mail: kruger.m@worldnet.att.net



**WANTED:** Chassis for Emerson TS (photo) aka L559, L459, and L556. Thanks. Peter Burton, 39 E. Walnut St., Belchertown, MA 01007. (413) 323-5019

**WANTED:** Bulova M-701 clock cathedral; Silvertone 1152 Repwood cathedral (Stein 2, p. 255). Bob Slagle, PO Box 7203, Colorado Springs, CO 80933. (719) 635-6208

**WANTED:** Vintage broadcast microphones by RCA, Western Electric, Altec, Amperite, American, Bruno, Universal, others. Dennis Schrank, 3129 S. Quincy Ave., Milwaukee, WI 53207. (414) 744-3374

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**WANTED:** Mystery chassis A.R.C. Sep. '98, p. 9. **FOR SALE:** Tubes, parts, books, paper, radios: Bendix 75P6U, 0626A, Emerson 415/4167, others. 16 pp. - 55c LSASE. W.F. Horn, 13110 Marsh Rd., Bealeton, VA 22712. (540) 439-9781. E-mail: wehcoll@tidalwave.net

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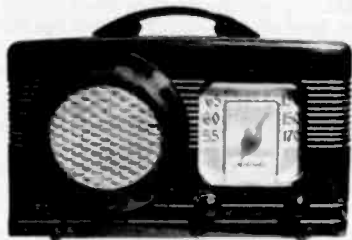
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**FOR SALE:** Country Guild telephone radio, circa 1956, works - \$165; Philco Model 66, tombstone - \$225; Crosley 52T - \$70; L600 Trans-Oceanic, needs on/off knob, plays, w/log book - \$165; Pilots Radio by Lear Aviation Corp., 3 bands - \$75; 2 two-way Sonar brand mobile radios w/ papers, work - \$95; Atwater Kent 84 - \$310; Philco 39-117 - \$130; Philco console, 40-180, parts, call; original Rider's Index for 1-10 - \$22; Philco Transitone 49-505, cream - \$95; Philco cathedral Mod 60, not tested, needs veneer work, complete - \$85; Bogen PA amp, J33C - \$65; good Philco Transitone case, 48-200, no cracks - \$30; 1949 Plymouth car radio with chrome eschuteon, 7 push buttons, looks nice; Webster Chicago record changer, 160-1 - \$115; Sprague Quik Test, KT-1, good eye tube - \$32; Truetone D3840, really nice, plays - \$80; Zenith 6S439, part radio, good cabinet; Emerson 595A - \$95; Wards Airline 84GBE1062A - \$65; Spartan 6A66, metal case and back - \$50; Arvin 35-86 - \$60; Hallicrafters S40A - \$65; National NC57, part radio, almost complete w/knobs and everything (call for parts) or - \$100; Atwater-Kent Mod 84, complete and untested, nice cabinet, original tuning knob, other two knobs not original - \$300; Victrola 4 portable wind-up phonograph, Mod 2-60, circa 1925 - \$110; Mopar car radio antenna, N.I.B, for 1952 DeSota, call; 3 RCA Globetrotter Radios, 8BX6, all three for - \$95 or \$35 each; Truetone D1011, pushbutton - \$80; Silvertone 75X11 - \$50. Books: Modern Radio Servicing, Ghirardi, 1947, 1,302 pages, - \$32; The Radio Handbook, 448 pages - \$23; Fundamentals of Radio, 1942, Jordan Nelson Osterbach - \$25. Hallicrafters S-40 and S-100 parts, call; have Trans-Oceanic parts, call; have lots of microphones, for sale or trade, have dial belts, call or e-mail; have 8-tracks; all of the above + S&H. Ron Crowe, PO Box 117, Handley, WV 25102. (304) 442-8179. E-mail: rcrowe@wvutec.edu

**FOR SALE:** 1949 RCA 9T246 10% metal tabletop. Stromberg-Carlson 440-M console radio. Other TVs and radios available - call for list or view list at <http://andersonelectronics.nycap.rr.com/tvcollection.htm>. Anderson Electronics, 95 N. Central Ave., Mechanicville, NY 12118. (518) 664-9555. E-mail: oanders1@nycap.rr.com

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**FOR SALE:** Personal Catalin, 54-B5, 1947 battery portable; Airliner (Miracle) 62-288, TE-PB-AC. Tony Weir, 1422 Belgrove, St. Louis, MO 63137. (314) 869-9348. E-mail: [Karen.Weir@gte.net](mailto:Karen.Weir@gte.net)

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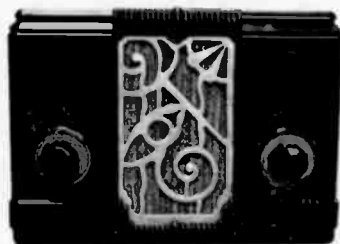
**FOR SALE:** Unbuilt Heathkit (Bell & Howell) GR-2000 TV. Andy Mitz, (WA3LTX), 4207 Ambler Dr., Kensington, MD 20895. (301) 897-5531. E-mail: [arm@gnode.org](mailto:arm@gnode.org). Web: [http://www.somerset.net/arm/fm\\_only.html](http://www.somerset.net/arm/fm_only.html)

**FOR SALE:** National SW-54, works well, excellent cosmetic condition - \$60. Large Prototek TA-51212 computer power supply, works fine, no case - \$10. (7) picture tube brighteners - \$30, all. Lionel Race Master power pack - \$15. Lear Aviation dynamotor, (13) tubes, as found - \$30. Kenwood 180 VFO with box and manual - \$50. Johnson Messenger #205 with AC supply - \$25. Small GE tube caddy, fair - \$15. Sony TFM-6200W, with box and manual, near mint - \$35. All plus shipping. Dale Chaney, WB8DTN, 309 Vincent Ave., Troy, OH 45373. (937) 339-7386

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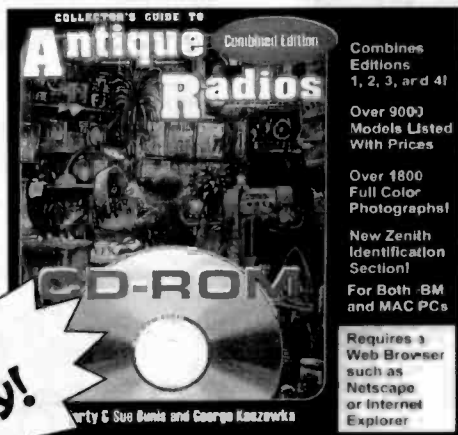
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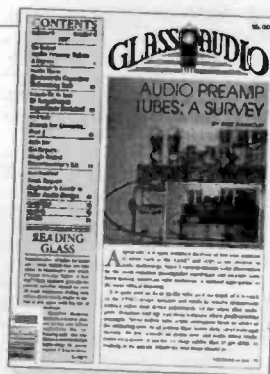
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**FOR SALE:** Heavy duty tape deguasser for up to 2 inch tape. Various Ampex AG440 recorder parts. Bob Lindahl, 10680 S.W. Wedgewood, Portland, OR 97225

**FOR SALE:** Bell P/A Carillon 75 WT good condition - \$50 + ship. Paul Harnetty, 4805 Parkmoor Dr., Westerville, OH 43082. (614) 882-1979

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**FOR SALE:** Chassis AK 55C, 60C - \$40 ea. Speaker AK F-4 - \$30. Grigsby-Grunow chassis, pwr unit, speaker, etc. Models 90 & 180 - Offers. National RDG coil (5) set, fits early HROs - \$150. Plus shipping. Steve Rosenfeld, PO Box 387, Ocean Gate, NJ 08740. (732) 269-2022. E-mail: srosenfeld@ems.att.com

**FOR SALE:** Cathedral, tombstone, battery radios. Books, manuals, much literature. Tube manuals. Large list, SASE. Bill Rolf, 30131 Center Ridge, Westlake, OH 44145

**FOR SALE:** Tired of the Internet? I prefer A.R.C. too. Fada 659 green, rare - \$1,000. Emerson AX235 green, repaired - \$1,300. Emerson Patriot white - \$975. Emerson Aristocrat Yellow - \$750. Bendix 115 - \$475. Kadette Classic black/red - \$650, Kadette H brown, chip - \$250. Kadette H beetle exc, missing back, rare - \$1,500. Bush, British, rare - \$375. Belmont 6D111 - \$185. Air Castle 106B Deco - \$150. Stewart-Warner Varsity black/orange, rare - \$400. Detrola Super Pee Wee Beetle grille - \$1,000; ivory - \$675. **WANTED:** Nice radios 20s-50s. Happy Holidays! Bob Masterson, Box 172, Valley Cottage, NY 10989. (914) 353-3151

**FOR SALE:** Miller tuner w/dial bezel - \$70. WD-11 N.I.B. - \$165. Shipping extra. Joel Camicia, 1811 NE 58th Ave., Portland, OR 97213. (503) 287-7832

**FOR SALE:** Atwater Kent 72 front panel & chassis (switches and controls intact) and stripped chassis (no parts) - \$50. Homemade table radio using 2-199 and 1-120 tubes, new front panel included - \$75. Philco Model 70 and 90 parts and tubes. Radiola 111 parts: dial pointer - \$15; dual tube socket - \$25; and interstage transformer (open winding) - \$15. Edison diamond disks and cylinders. + S&H. J.J. Papovich, 165 Trellis Ln., Sewell, NJ 08080. (856) 464-6741. E-mail: jjpapo@juno.com

**FOR SALE:** Many EH Scott chassis for sale, call for info. No lists. 15 EH Scott consoles for sale. **WANTED:** Cabinet for 25 tube Zenith Stratosphere, or complete rough set, will pick up. **FOR SALE:** Owner's and service manuals for most Scott radios - Call. Alan Jesperson, PO Box 17338, Minneapolis, MN 55417. (612) 727-2489 Tues.-Sat. 8 am-6 pm. Fax: (612) 821-4821. E-mail: mte612@aol.com

**FOR SALE:** R390A 3088. Hallicrafters. SX110, SX100, SX101A, SX108, SX42, SX76, SX71, S120, 6088, S38 4088, S20R, S19, SX24, SX62A, SX130. Hammarlund SP400 + PS, HQ170, HQ180A, HQ110, HQ100 + SP, HQ129, HQ140X, HQ145X. National FRG598WRRZ. Big Boys 240D + SP. NC300, NC57, NC46 + SP, SW54. Scott 800BC + SP + PS. Scott SLRM. Allied A2517 ham transceiver + SP. Yaesu F1101 + SP xmtr. FRG9600 VHF, UHF. FRG7. Kenwood TS 5305+ AT230+SP230. Heath Apache TX1. GR78 still in box. Knight RSS, R100A, Collins 51J. Bearcat 9000 XLT scanner. Some German wood & plastic radios + lots more. Allan Carpenter, 6850 N. Camino De Fray Marcos, Tuscon, AZ 85718. (520) 575-1960

**FOR SALE/TRADE:** For your multiband portables, Hallicrafters S-95 Civic Patrol - \$40. N.I.B. GC desk microphone, looks like Turner +2 - \$30. Scott Howard, 165 Renfrew Ave., Adrian, MI 49221. (517) 264-4452, days. (517) 263-8890, after 5 pm



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**WANTED:** Radios with chrome grilles or trim; Climax radios, miniature cathedrals. Jay Malkin, 1250 Galapago #206, Denver, CO 80204. (303) 623-6451

**WANTED:** I still would like to buy a chassis for a Sparton Model, 1116, 1166, 1176, 1186, 1196, 1466, 1476. These models have the same main chassis. Will take chassis in most any condition as long as its all there. I'll pay top dollar or a finders fee. Thanks. Gerald Cromer, K4NHN, 1014 Summerland Dr., Cayce, SC 29033. (803) 794-1483. E-mail: gcromer@usit.net

**WANTED:** Blown Jensen (type H) HNP-51 speaker for parts (or a good one), Stephens Trusonic Model E52F 15 inch field coil speaker, Stephens Trusonic 5000 cycle driver and small 2 x 4 multicell horn, Stephens Trusonic 5000 Hz crossover, Stephens Trusonic 800 Hz crossover, Stephens Trusonic 600 Hz crossovers, Altec 756A speaker, Western Electric 233G input transformer. Eric Lenius, PO Box 685, Port Orchard, WA 98366. (360) 871-5921, 6 to 9 pm PST. E-mail: lenius@tscnet.com

**WANTED:** Collins Radio Company Catalogs, promotional literature, manuals 1933-1983. Jim Stitzinger, 23800 Via Irena, Valencia, CA 91355. 1-805-259-2011

**WANTED: Paying \$800 for ZENITH TRANS-OCEANIC BOMBER 7G605 in excellent condition and original. Kenneth F. Cerva, 3851 Harbor Hts. Dr., Largo, FL 33774-1209. (727) 584-6471**

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**WANTED:** Japanese Star or Starline made ham receiver SR-500, SR-550, SR-600, and SR-700. Takashi Doi, 1-21-4, Minamidai, Seyaku, Yokohama, 246 Japan. Fax: 011-8145-301-8069. E-mail: takadoi@carrot.ocn.ne.jp

**WANTED:** By new collector. 1930s, earlier, radio, speaker and oddball scientific devices. Steve Erenberg, 23 Furnace Brook Dr., Cortlandt Manor, NY 10567. (212) 818-0100, (914) 739-1423. E-mail: erenberg@bestweb.net

**WANTED:** 1950s Roland Bozo radio. Andrew Mooradian, 5 Priscilla Ln., Winchester, MA 01890

**WANTED:** Color round screen TVs, 21" and 15", some areas can pick up. Glenn Bubenheimer, 27851 Terrence, Livonia, MI 48154. E-mail: gbuben@provide.net

**WANTED:** Manual for Hickock 510X tube tester. MESSAGE: Thanks on tube tester, purchased 3. Milt Faivre, K4EBT, 1445 2nd Rd., SW, Vero Beach, FL 32962

**WANTED:** Morris coil winder. Back issues of electronics and audio magazines all kinds and dates from 1950 thru 1980. Also books on audio and testing. F.J. Miller, 2100 Ward Dr., Henderson, NV 89015. (702) 565-3400, M-F, PT. E-mail: sescom@sescom.com

**WANTED:** Main speaker for Philco 116X (1935) console. Jerry Huelsbeck, 323 Cherry Ln., Little Chute, WI 54140. (920) 788-3104. E-mail: chuels9731@aol.com

**WANTED:** Majestic tubes: G-4S, G-57S, G-58S, G-82, G-47, G-56, G-82. Dave Stott, 29 Willow Bee Ln., Middletown, CT 06457. (860) 344-0697. E-mail: dkstott@compuserve.com

**MANUALS for VINTAGE** amateur, audio, and radio-related equipment. Web: [www.manualman.com](http://www.manualman.com) or send \$2 for catalog. Pete Markavak, **MANUALMAN**, 27 Walling St., Sayreville, NJ 08872-1818. (732) 238-8964. E-mail: manualman@juno.com

**WWII MILITARY TELEVISION WANTED.** Army/ Navy SCR, ATJ, ATK, ARK, ARJ, CEK, CRV. Receivers, cameras, monitor, transmitters, dynamotors. Maurice Schechter, 590 Willis Ave., Williston Park, NY 11596. Ph/fax: (516) 294-4416

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**WANTED: Paying \$1,000 for ZENITH TRANS-OCEANIC MILITARY R-520/URR in excellent and original condition. Kenneth F. Cerva, 3851 Harbor Hts. Dr., Largo, FL 33774-1209. (727) 584-6471**

**WANTED:** Vintage Electronic Music Synthesizers and modules by the following manufacturers, especially the listed models. **Aires** Modular, System III. **ARP** 2500. **Buchia** Modular, 100, 400. **E-mu** Modular. **EML Electrocomp** 100, 101, 200. **EMS** Synthi A, Synthi AKS, VCS3. **Korg** Modular PS-3100, PS-3200, PS-3300. **Moog** Theramin, Modular, Series 15, 35, 55. **Oberheim** SEM modules, 2-, 4- & 8-Voice Systems. **Pala** Modular 2700, 4700. **Roland** Modular Systems 100, 700. **Serge** Modulares, System 79. **Synton** Modular System. Call and surprise me; make my day! John V. Terrey, 498 Cross St., Carlisle, MA 01741. (978) 369-9770. Fax: (978) 371-7129

**FOR SALE:** Meters 6 inch square, mirrored case [?] lab type, AC volts, amps, watts, DC volts, amps - \$15. 3 1/2 inch AC 0-150, 250 volts - \$5. Joe Brady, Box 8 Star Rt., Huntingdon, PA 16652. (814) 643-0603

**FOR SALE:** Zenith 12S475 robot dial console, very rare model in excellent condition, reconditioned electronically, excellent player. For sale or trade for Zenith 12S266, 12A58, 15U269, 15S372 or ? Will Ship. Tom Avery, 7180 N.W. Somersset Dr., Corvallis, OR 97330. (541) 745-5651. E-mail: mrlco@proaxis.com

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**FOR SALE:** Halston 610 tombstone - \$95. GE E-61 tombstone - \$95. Tonemaster tombstone - \$95. RCA 5T1 tombstone - \$95. Novelty Coca-Cola cooler radio - \$55. Gulbrandsen chairside - \$125. AK 20C - \$120. Crosley 51 - \$140. Crosley X - \$195. Majestic 25 w/stand - \$125. Philco 71 cathedral - \$175. Westinghouse RA-DA - \$200. Zenith 12 - \$125. J. Gary Cameron, 824 Andrews St., Southington, CT 06489. (860) 276-9200

**FOR SALE:** EV 630 mic (works), Webster-Chicago (working), others. Simpson 240 VOM, Key by A & M (W.E.R. 940, England), Farnsworth AC-71 (console, parts only), military antenna AN-75 (8-foot, clamp-mtg), Philco 80, 84 poor cabinets, Westinghouse WR-217, Zenith 11S474, 6S632, 4G008XT (black version, one piece on lid broken, nice otherwise), RCA 9K7 chassis, Radiola 86 chassis, others, 100A speaker, misc field coil types, inquire. Delco R1128, Sentinel 243 (1.5-volt farm), Lafayette CBs HE-20b (fair) & HE-20c (poor), HB-444, others, Lafayette SWR/PWR/%MOD/FS METER (99-26387, in original box w/papers, jack and tiny antenna, looks unused), Lafayette crossover network 99-0140, 10 transistor SAM's schematics, CF Cannon, Featherweight Twin Tone & Tower Super Sensitive Navy-type headphones, others, phono cartridge/needle catalogs and flyers (small lot), antenna literature (small lot), Atwater Kent metal cabinet (Model 41, 42 poor), Troubador (portable, no back, good handle), B&K Dyanjet 606 tube tester (nice, works), Motorola P-8501B test set (0-50 microamp, 2000 ohm int. res. fair), Hallicrafters S-40 (needs speaker, some work), Musicaire 1.5-volt Bakelite, Philco 46-1201 (fair), 38-14, Stewart-Warner 900-Series chassis, Weston meters Model 501, Type 41, marked in Decibels, (3), inquire. Much more. Send wants. Have jpegs. Wilbur Gilroy, PO Box 459, Lake Winola, PA 18625. (570) 378-2508. E-mail: wlbgr@aol.com

**FOR SALE:** Radiola 60 cabinet parts - \$10. Jewel oscillator - \$25. Smithsonian crystal radio, in box - \$11. Victor Animaphone 16mm projector - \$15. Zenith T-825 - \$25. Silvertone 1661, 6220A, RCA 14X, 65X1, 9X571 Bullhorn, 4X641. Lots of other types of radios and related items. Holiday specials. SASE for lists. **WANTED:** Radiola 20 cabinet, Radiola 28 radio. Matt Hussey, 8 Capitol Cir., Rochester, NH 03867. (603) 332-9927. E-mail: huzzman@aol.com

**FOR SALE:** Rider's 10, 13, 14 - \$16.50 ea. (65) TSMs 24-154 - \$2 ea. (\$120 all). Repr "Hoppy" radio sign - \$17. BK 2160, 60 MHz dual trace scope, exc - \$350. Sencore CR133 CRT tester - \$30. All plus shipping. HBs, CB manuals, equipment manuals, catalogs, mags, SASE. Robert Morrison, 10238 117th Ln., Live Oak, FL 32060. (904) 362-1521, lv msg. E-mail: rrmorison@susannevalley.net

**FOR SALE:** Rider manuals one thru fourteen. Numbers 1 thru 5, and 4 thru 6 are abridged, manuals are in very good condition - \$150 for all, OBO before 12/31/99. Four cartons, Approx. 2 cu. ft. each, full of 40s & 50s radio repair and related radio manuals, good condition - \$50 for all, OBO before 12/31/99. Also a rare find: Ansley Paneltone AM in the wall radio Mod 41, plays very well, and in very good condition, has back box for mounting in wall, allowing set to be removed for servicing, the back box has never been installed, which indicates the radio probably wasn't used either, all is very clean, set has a tuned RF stage, and a 6U5 tuning eye - \$125 OBO before 12/31/99. All plus shipping. Irv Sanders, 242 Hunter Ln., Harrisburg, PA 17112. (717) 469-2185



**WANTED:** TV signal boosters, the tunable set-top kind, especially TEC, RMS, Oak, ITI and Jerrold brands. See my website at oldtv.homepage.com or e-mail me at k8zhd@yahoo.com. Mark Nelson, 17 Wentworth Rd., Natick, MA 01760-1736

**WANTED:** Original headphones, or ones of the correct era, for my Zenith T600 Trans-Oceanic. Dick Stewart, 656 Squire St., Colorado Springs, CO 80911-2634. (719) 392-9694. E-mail: StewartWCF@aol.com

**WANTED:** Pre-1978 computers, audio transformers, RCA Broadcast News magazines, big old speakers. V. Vogt, 2311 Pimmit Dr. #114E, Falls Church, VA 22043. E-mail: V22043@webtv.net

**WANTED:** Zenith 4K600 Poketradio and Sonora Candid pre-war portables. Japanese tube portables. Larry Gilbert, 2602 Amapola Dr., Davis, CA 95616. (53C) 758-5025. E-mail: l.gilbert@thegrid.net

**WANTED:** Detrola chairside, Detrola grandfather clock, Detrola TV, Detrola FM, Detrola advertising. Detrola unusual! Dennis Smith, Box 113, Trenton, MI 48183. (734) 675-5847



**WANTED:** McMurdo Silver radios, speakers, parts, brochures, etc. Have cash and excellent trades. **FOR SALE:** McMurdo paper. Don Hauff, Box 16351, Minneapolis, MN 55416. (888) OLD-RADIO E-mail: DHauff@isd.net

**WANTED:** Western Electric 60A, 61A, 46 or 41 amplifiers in any condition or completeness. Western Electric 200A panel. Western Electric 2A or 4A rectifier. Eric Lenius, PO Box 685, Port Orchard, WA 98366. (360) 871-5921, 6 to 9 pm PST. E-mail: lenius@tscnet.com

**WANTED:** Knobs, pointer for green Crosley bullseye; Motorola 57R tuning knob; Truetone Stratoscope chassis & knobs. Barry McDaniel, 6 Pecos Ln., Little Rock, AR 72212. (800) 755-3326

**WANTED:** Power transformer for National 183-D receiver or junker with good power transformer. Schematic or any info for USL Broadcast Receptcr, has (4) UX-201-A and (1) CX-301-A tubes, it is a battery table model. Dale Chaney, WB8DTN, 309 Vincent Ave., Troy, OH 45373. (937) 339-7386

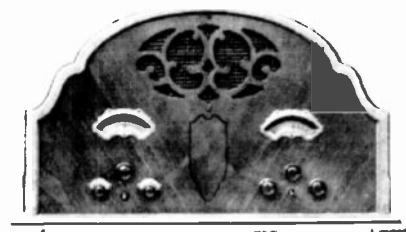
**WANTED:** Service manual for Majestic 92. Francis Austin, 15633 Newhope Dr., Haymarket, VA 20169. E-mail: faustin681@aol.com

**WANTED:** Kolster radio. Send price and model number to: John Washburn, 2908 B-B, Grain Valley, MO 64029. (816) 650-9350. E-mail: JRW46@juno.com

**WANTED:** AKG BX15, BX10 reverbs. Sherwood S7010A stereo. Thanks. John Sampson, 75 Glerwood Dr., Leoninster, MA 01453. (978) 537-0092 E-mail: sampsonj@massed.net

**WANTED:** Zenith 25-tube Stratosphere or cabinet, any condition. Will trade from vast supply of fine radios or buy. Will pick up. Alan Jespersion, PO Box 17338, Minneapolis MN 55417. (612) 727-2489. E-mail: mte612@aol.com

**WANTED:** Radio Retailing: Feb., May, Aug.-Dec. 1947, others. Dupes for trade. Ted Hutson, 11 1/2 Winthrop Ave., Beverly, MA 01915. (978) 922-3405. E-mail: tedhutson@yahoo.com



**WANTED:** The above Pilot radio, will pay up to \$1,500 or trade. Call: Bill Moore, 3049 Box Canyon Rd., Huntsville, AL 35803. (256) 880-1207

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**WANTED:** Mitchell, Mitchell, Mitchell brand radios & appliances, but not bedlamp or tall clock radios. Thanks! Lee Mitchell, The Mitchell Collector, 175 E. Delaware #8209, Chicago, IL 60611. (800) 869-7869. E-mail: toystoys@webtv.net

**WANTED:** Schematic, tubes and any other info on Russian Red Star 54 radio. Louie Scribner, 150 E. Connecticut Ave., Southern Pines, NC 28387. (910) 695-8884. E-mail: louie@pinehurst.net

**WANTED:** Good or restorable Crosley 5M3. **FOR SALE:** Crosley Buddy Boy needs work. Cleo A. McAlexander, Box 4, Stanleytown, VA 24168. (540) 629-2972. E-mail: cmcalexander@stanleyfurniture.com

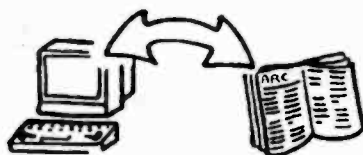
**WANTED:** McIntosh: tube amps, preamps, all tuners, whole systems, cabinets, literature, parts; Altec A333 amp, VOT speaker cabinets, plywood, 50s home version VOT cabinets; Karlson factory 15" speaker cabinets; Electro-Voice: early Georgian systems (K-horn), 15 TRX, 12 TRX; Fairchild 260 black label amps; Thorens 121; clean Sansui TU9900 tuner; McKay-Dymek AM tuners, tunable AM antennas; Eico HFT94 AM tuner. Walt Fleming, 182 Plain Hill Rd., Norwich, CT 06360. (860) 889-1957. E-mail: wrfleming@snet.net

**WANTED:** Sams: DC 7, 8; AR 2, 9, 15, 16; RC 8, 10, 12. Available: AR 1, 3; RC 3, 5, 6. Vibrator tester; electrostatic pix tube tester Gernsback II plus; schematic/operation Lafayette TE 25 CRT analyzer. Molex early style connectors. Noel S. Ilg, 228 Beck Rd., Avon Lake, OH 44012. (440) 933-5668. Fax: (440) 933-8864

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(Dec-89)

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(Feb-99)

**FOR SALE:** Radio collection, mostly wood, SASE for list. Mark A. Anderson, 207 Fiddlers Elbow Rd., Greenwich, NY 12834. E-mail: Mander3345@aol.com

**FOR SALE:** Pioneer DT510 digital timer - \$10. RCA 3RC76 AM/FM - \$5. (25) Photofacts from #1026 to 2531 - \$2.50 each ppd., or - \$10 for lot, plus UPS, SASE or e-mail for list. Staco 13.8 VDC, 4 amp power supply - \$10. Lafayette HB740 CB - \$15. Jon D. Andreasen, PO Box 22, Newton, NJ 07860. (973) 579-6261, 6 to 10 pm eastern. E-mail jda@nac.net

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**FOR SALE:** Tube testers - \$35 each + post. GE TC-3, NRI, Eskey 105, Coltronic T-60, Precision 920. H.N. Felder, 7517 Granada Dr., Bethesda, MD 20817. (301) 320-3028

**FOR SALE:** Used windchargers. 6 volts and one 32 volt. H. Eltz, WOJDT, 4265 S. Bladen, Juniata, NE 68955

**FOR SALE:** Pepsi transistor pop vending machine radio, N.I.B. - \$50. A.R.R.L. antenna book, gc - \$5. James S. Looney, Rt. 1 Box 54, Grundy, VA 24614. (540) 531-8677

**FOR SALE:** Good RCA 56X5 1945 wood cabinet, radio plays good - \$45 plus shipping. M.B. Gaskins, WB4MNZ, 227 Risen Ave., Campbellsville, KY 42718. (270) 465-3755

**FOR SALE:** I have building and repairing radios for 60 years, now selling out. Joe Merti, 2303 Bellevue Ave., Bettendorf, IA 52722. (319) 355-0498

**FORSALE:** RCA Victor 3RH10 (1960) vertical transistor, no chips or cracks - \$15. Donald Sochurek, W191 S7500 Richdof Dr., Muskego, WI 53150. (262) 679-0212

**FOR SALE:** Catalin: RCA 66X8, working, gorgeous maroon cabinet, no cracks or chips - \$450 plus UPS. Ron Marley, 172 Brandi Way, Winchester, TN 37398. (931) 967-7219

**FOR SALE:** Rare Simplex transistone Art Deco radio, see Collins, also Sentinel push button Catalin investment grade, Emerson 520 and RCA 66X black-gold marbling. Also Marantz and Nordmende stereo/hi-fi units. Ted Chronister, 7073 Carlisle Pike #26, Carlisle, PA 17013. E-mail: shorty@ezonline.com

**FOR SALE:** Complete set of Rider's radio manuals, very good condition - \$500. Shipping extra. Bill Engstrom, 218 Bent Creek Dr., Greenville, NC 27834. (252) 355-8732. E-mail: wengstrom@skantech.net

**FOR SALE:** Fada 115 bullet, mint, pick up - \$2,000. Bendix 526 - \$275. Temple E514 - \$150. Herman Schnur, 3205 Brick Kiln Rd., Greenville, NC 27858. (252) 752-2264

**FORSALE:** Hallicrafters SX-43 - \$325; SX-100 - \$285; R-48 - \$55; HT-40 - \$75. Morrow Twins - \$225. Johnson Challenger - \$75. Free list! Richard Prester, 131 Ridge Rd., West Milford, NJ 07480. (973) 728-2454. E-mail: rprester@warwick.net

**FOR SALE/TRADE:** Majestic 4706 TM, vg - \$59. RCA 95T5 TM, vg - \$69. Triad 530 TM, g - \$29. Bob Fuerderer, Holly Farm, 813 Rte 12A, Surry, NH 03431. (603) 352-3005

**FOR SALE:** Sixteen good RCA Selectovision CED videodisc movies. Individually or lot. SASE list. Charles Combs, 508 E. Daniel, Albany, MO 64402. Ph./fax: (660) 726-3038

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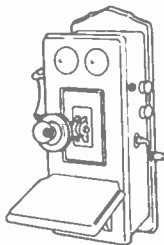
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**FOR SALE:** Hickok 510X - \$50. Weston 665 analyzer - \$30. Jackson tube tester - \$25. RCA Isotap - \$25 plus shipping. David Cox, PO Box 415, Kiefer, OK 74041

**FOR SALE/TRADE:** Detrola 304, Crosley 52, nice - \$125. Philco 51-532, plays - \$49. RCA 3BX-671 Stratobeaater plays - \$49. Mitchell lamp chassis, knob, plays - \$40. Sonora RQU222 plays - \$49. Rets plastic, plays with hum - \$95. Voice of Music 582. AK 55 console parts; doors, grille, F-4 speaker. Mohawk drawer chassis. Silvertone 94 chassis speaker. Philco 38-89 chassis, speaker, rebuilt - \$65. Bill Timoszyk, 35283 Leon, Livonia, MI 48150. (734) 421-2076



**FOR SALE:** Hardcover book, Radio Girls of Roselawn by Margaret Penrose, 1922. This short series became the Fireside Girls. Decent condition, no dust cover - \$12. Wollensak Model 1500 reel-to-reel tape recorder, small compact, 1950s/1960s in working condition with accessories - \$25. On The Air glass microphone by Avon. Still full, unopened, in original box - \$5. Wooden wall telephone radio, very well made, in working condition, nice condition - \$25. Dave Crocker, 4B Beechwood Point Dr., Mashpee, MA 02649. (508) 477-1578

**FOR SALE:** Wide selection of books on wireless, radio, telegraphy, electricity, medical electricity, and associated histories and biographies. Phone with your wants or check the Electro-Technology catalog on our website: <http://www.abebooks.com/home/oldauthors>. Roger Hart, VA3OA, Old Authors Bookshop, PO Box 403, Morrisburg, Ontario, Canada K0C 1X0. (613) 543-3337. Fax: (613) 543-2380. E-mail: [authors@mor-net.on.ca](mailto:authors@mor-net.on.ca)

**FOR SALE:** Hallicrafters S-108 near mint - \$300. Also Tandberg 2080 receiver. **WANTED:** Sony Panasonic etc. Multibands. Khushpal Singh, 1831 Gray Ave., Yuba City, CA 95991. (530) 671-3485, (530) 671-4607

**FOR SALE:** Tube manuals: RCA '63 - \$10; Sylvania '59 - \$18; ARRL '50, '59 - \$20 each; '71 - \$15 + UPS. George Wright, 4181 Enders Way, Doylestown, PA 18901-5611. (215) 340-0413. E-mail: [gwright@pemnet.com](mailto:gwright@pemnet.com)

**FOR SALE:** Regency TR 1 yellow, rare! - \$750. Sony TR 84 coral - \$100; green, chip - \$40; ivory - \$60. Kadette Jewel parts set - \$125. RCA Trans-Oceanic - \$165. Northern Electric tan Hammertone - \$150; brown/ivory - \$60; lt. blue - \$50. Sonora S 22 Plaskon - \$150. Sony TV 8-301W, no hood rare - \$225. Happy Hol days! Bob Masterson, Box 172, Valley Cottage, NY 10989. (914) 353-3151

**FOR SALE:** Replacement crystal domes for 2h more crystal radios. These domes are made of clear lucite and will not break like the glass ones - \$5 each + \$3.20 shipping by priority mail. Norm Hetz, 4904 Amboy Rd., Staten Island, NY 10312. (718) 967-1025

**FOR SALE:** Beitman Most Often Needed Radio Diagrams. 1928-38 - \$15. 1939 thru 1942 - \$12 ea. 1946 thru 1959 plus 1961 & 1964 - \$10 ea. Plus postage. **WANTED:** Tuska 225 transformers. Bob Nicholson, 2745 S.W. Villa West Dr. #1308, Topeka, KS 66614-5236. (785) 271-5604. E-mail: [bnichxxxks@webtv.net](mailto:bnichxxxks@webtv.net)

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**FOR SALE:** Aircraft transceiver - \$75; Hallicrafters 5R10 - \$75; Bulova 1580 - \$35; 275 Zenith - \$35. Ernest Odeneal, K5QJF, 2710 Lee, Greenville, TX 75401. (9c3) 455-2113 or 5788. E-mail: [odeneal@webwide.net](mailto:odeneal@webwide.net)

**FOR SALE:** Philco 70 cathedral - \$525. Mills old 5 cent slot machine - \$750. All mint condition. Richard Bednarcik, 28 Steele Ave., Lincoln Park, NJ 07035. (973) 694-6374



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**FOR SALE:** Clean mini TVs: Panasonic Pop-ups TR535, TR425R, TR475, Sony's 9-304UW, TV-413, 5-305UW, Setchell-Carlson 17P68 - \$30 ea. Factory RCA 630TS magnifier - \$40. Raytheon Kinolamp neon tube - \$80. See-all TV kit box cover - \$25. E.H. Scott 510 tuner and amp - \$100. Eric Stumpf, PO Box 425, Newbury, NH 03255. (603) 938-5752

**FOR SALE:** Dynakit stereo 70, clean - \$150. Still have car radios from October ad. Classic Radio & Television, 541 Riverside Dr., Box 61, Augusta, ME 04330. (207) 623-2059

**FOR SALE:** 1960s Grundig console, KS 460, radio/ phono/tape, Danish modern - \$150, pickup or commercial moving. Ellsworth O. Johnson, 364 S. Coeur Dalene St., Spokane, WA 99204-1063. (509) 838-2161. E-mail: eojohnsonww2@home.com

**FOR SALE:** Diamond phonograph needles, no list, send wants - \$5 ea. Mathew W. Lineberger, 295 Grove St., Providence, RI 02909. (401) 831-0976. E-mail: MWLbottles@juno.com

**FOR SALE:** Free: Two old RCA AM broadcast transmitters, 4 racks in all; some 2,000 lbs. each. You must pick-up. George Clark, 1900 Alta West Rd., Mansfield, OH 44903. (419) 529-8427

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**FOR SALE:** NRI electronic multimeter - \$20. Sams Scanner books vol 3 and 4 - \$6 each. International Code of Signals 1969, H.O. 102 - \$10. Garrard record spindels LR59, LR5100, LR525, N.I.B. - \$15 each. Heathkit IT-17 or IT-21 roll charts or tube books - \$10. Arvin car radio Model 29 - \$25. Troy Model 577 chassis, tubes - \$25. Triple H NRI 1175-B tester steel case - \$45. GE P15 record changer data - \$6. Brian Kurlle, 2222 Nodleigh Ter., Jarrettsville, MD 21084. (410) 692-0450

**FOR SALE/TRADE:** Guild collectors! The Stereodeon square grand piano novelty. Show delivery. **WANTED:** Michigan manufactured. Nevins Museum of Radio, Ken Nevins, 406 Jipson St., Blissfield, MI 49228. (517) 486-3019, evenings please. E-mail: knevins@tc3net.com

**FOR SALE:** Tube testers: GE TC3, Radio City 802 not working; Knight 83YX142 works. Heath W5M amp with WAP2 preamp, works. Noel S. Ilg, 228 Beck Rd., Avon Lake, OH 44012. (440) 933-5668. Fax: (440) 933-8864

**FOR SALE:** Heathkit IG-102 RF gen C/W manual - \$35. Hitachi KH 1005C transistor portable - \$30 OBO + shipping. Paul Rosen, 30 Cherrystone Dr., Willowdale, Ontario, Canada M2H 1S1. (800) 387-0233, days. (416) 493-6962, eves.

**FOR SALE:** Midwest 18 tube 15" sprk & tweeter in cabinet. Zenith 6S254 big round black dial with or without cabinet. Gloriton screen grid cathedral complete. Hallicrafters S41G works - \$40. 5 tube tombstone GE M-51 - \$75. Motorola 10" #24R b/w. Silvertone 1860 tombstone 32V-DC, nice brass bezel & Bakelite knobs - \$75. McIntosh 1700 stereo receiver w/ amp has tubes. Belmlite w/5 push buttons, no knobs brown. Philco cathedral 70. Cabinet for 7" Sentinel w/back excellent. Philco table radio/phono w/changer B1349 like new. Seeburg jukebox wall sprk Bakelite w/ chrome trim - \$75. Grunow teledial 589-5U beautiful design around sprk with or without cabinet. Sentinel 32v 6946S nice brass bezel around dial - \$65. 5 tube radio Bakelite chassis & front panel has 2 Thorola 321 audio xmfrs, has 3 Thorola donut coils, 3 tuning capacitors. Motorola ivory/gold 14P11-1B b&w 50s, excellent - \$65. Philco sprk #G pedestal base w/audio xmfr for 45 tube. GE Model 83 table 24" w w/eye 12" sprk very unusual cabinet. Rockola stereo hi-fi jukebox amplifier uses 4 #6973 tubes Model 35260-A purple chassis. Crosley 63TA Victory Model 5 tube AC. Bill Kalcik, 1533 River Rd., Wisconsin Dells, WI 53965. (608) 253-9855, after 9 pm CST

**FOR TRADE:** My working Hotpoint 14S202 pink/white 50s metal TV for your Zenith A1512J 16" metal TV. Sam Mannino, PO Box 331, Villanova, PA 19085. (610) 353-6747

**FOR TRADE:** I have a nice oval brass badge for an AK33, will trade for same for an AK20. Tom Boyd, 7914 137th Ave. SE, Snohomish, WA 98290. E-mail: tdb@premier1.net

**FOR TRADE:** Pair of MC 75s for Atwater Kent 4066 breadboard. Thank you. Mike Fletcher, 1204 Cedar St., Niles, MI 49120. (616) 684-2174. E-mail: fletchms@qtm.net

**HELP:** Would like any recordings of pre-WWII network singer Marguerite Spiridovitch (Contralto). Alexander Kruedener, 161 E. 89 St., Apt. 4E, New York, NY 10128. (212) 831-0662. E-mail: Kruedener@Juno.com

**HELP:** Need Zenith auto radio for 1940 Ford Delux. Also need Philco radio for 1940 Ford Delux. Jerry H. Reed, 4438 S. Santa Fe Pl., Tulsa, OK 74107. (918) 446-4276

**HELP:** Make my Xmas! Need side knobs for Crosley F-25BK Bakelite clock radio. Any blk. volume & station knobs OK with 3/4" long shaft to fit through 5/8" opening. Also need tiny amber knob for clock. Maureen Martin, 1407 Memory Ln., Lutz, FL 33549

**HELP:** Need dial bezel for Spartan console 766, chassis Type 716. A.M. Eisenstein, 10815 Falstaff Rd., Sebastopol, CA 95472. (707) 829-7559

**HELP:** Help Wanted: 1960s color TV repair Portland & surrounding area only. Will trade computer consulting fixing, radios or ?? Damon Vandehey, 18620 S.W. Aloha Ct., Aloha, OR 97006. (503) 259-9129

**HELP:** Wanted an operator's manual and/or a schematic for a Hickok VTVM Model 209B. W.J. Kiewchuk, PO Box 927, Wadena, Saskatchewan, Canada S0A 4J0. (306) 338-2264

**HELP:** Anything on Multivox Rhythm Ace FR7H. Alexander Kruedener, 161 E. 89 St., Apt. 4E, New York, NY 10128. (212) 831-0662. E-mail: Kruedener@Juno.com

**HELP:** Need information on repair of pot metal shafts on my Zenith 4R radio. Does anyone know of someone who has replacement shafts or knobs for this unit. Also looking for a copy of the schematic or manual. Rudy Hecker, 127 Weymouth Ct., Schaumburg, IL 60193. (847) 524-3560. E-mail: Nipperdome@worldnet.att.net

**HELP:** Need information and/or schematic for USN signal generator CAJA-60AGC by Browning Laboratories. Tracy Sands, 8850 Walker St., Cypress, CA 90630. (714) 527-5728

**HELP:** Wanted the following nice pocket transistor radios to complete my collection, almost. Admiral Y-2303 GP, Arvin 62R65, Bulova 690 Series, Bulova 660 Series, Sylvania 6P09 or other nice Sylvania in (vertical) prefer. Thanks. Donald M. Harrill, 14485 Spruce St., Monroe, MI 48161-3619. (734) 242-9735

**HELP:** Original or reproduction decals for Stromberg-Carlson 231-F coffee table radio. Joseph Di Caro, 4155 Lastrada Hts., Mississauga, Ontario, Canada L5C 3V1. (905) 848-7759. E-mail: fox@globalserve.net

**MESSAGE:** Frontier Capacitor will be on vacation December 15th thru New Years. Everett Hoard, PO Box 218, 403 S. McIntosh St., Lehr, ND 58460

**MESSAGE:** My TV collector friend in New Hampshire, please e-mail me! No attachments please! R. Brewster, Mercy Ships, M/V Anastasis, Box 2020, Lindale, TX 75771. E-mail: brewsts@mercyships.org

**MESSAGE:** Radio store: SE Michigan visit Kaliks Antiques. The past 12 months we sold 65 radios plus books, signs, horn speakers, etc., we usually have 50 radios currently from Grebe Synchrophase to Harman Kardon TA230, military BC-375. No shipping. Sundays by appointment. Kaliks Antiques, 198 Liberty, Plymouth, MI 48170. (734) 455-5595

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**SERVICES:** Decals and dial scales for antique radios. SASE for list. Rock-Sea Enterprises, PMB 241, 323-110 E. Matilija St., Ojai, CA 93023. (805) 646-7362. E-mail: dials@juno.com

**SERVICES:** Hand-wound plug-in coils for SW-3s, Wasp, and Super Wasp. Tony LeDoux, PO Box 74, Schoenchen, KS 67667. (785) 625-6075

**SERVICES:** Antique radio repair at reasonable prices. Work guaranteed. Midwest Antique Radio Service, 22164 Fleming Ave., Tomah, WI 54660. (608) 372-0716. E-mail: rhodesl@mwt.net. Web site: <http://www.mwt.net/~rhodesl>

**SERVICES:** Original (Lenz) radio/switchboard wire. SASE for samples. John Gielczyk, 5456 Katherine Ct., Saginaw, MI 48603. E-mail: faygoman@megsinet.net

**SERVICES:** Rider/Sams schematics, 1920-1970 - \$3 ppd. Send make/model to: Richard A. Lerche, 1561 Bluebell Ct., Livermore, CA 94550. (925) 447-9365. E-mail: lerche@home.com

**SERVICES:** Repair and restoration of antique radio and televisions, 2-week turnover, 40 yrs. experience, guaranteed work. Tom's Antique Radio & TV, 8 Howe Ln., Millbury, MA 01527. (508) 865-6293

**SERVICES:** Schematics by e-mail free or SASE. 30s, 40s, 50s. [www.joes.com/home/Radiorelic](http://www.joes.com/home/Radiorelic). Zach Taylor, 1413 Broadway, Lincoln, IL 62656

**SERVICES:** Reproduction Philco cathedral cabinet parts. Front panels, bottom moldings, rear arches. Reproduction 20, 21, 70 or 90 cabinets. Grandfather clock finials: Philco 570, GE H-91, Crosley 124. Philco colonial clock top trim and finials. Other part inquire. Tube shields, Philco 20, 70 or 90. All plus shipping. Dick Oliver, 28604 Schwalm Dr., Elkhart, IN 46517. (219) 522-4516

**SERVICES:** New manufacture battery packs for old radios. Zenith Trans-Oceanic. Snap or screw terminals. Also can rebuild old battery packs. Radios restored. Vintage Radio & Electronics, Scott A. Webster, 516 Barry Rd., Rockford, IL 61109. (815) 395-0811

**SERVICES:** Will repair antique auto radios. Not a collector, repairs only. Tony LeDoux, PO Box 74, Schoenchen, KS 67667. (785) 625-6075



### **VIRGINIA - Dec. 1**

**TIDEWATER ANTIQUE RADIO ASSOC.  
MEETING**

Call for location & directions

7 pm

Info: Vic Johnston - (757) 825-0757, eves.  
Scott Balderston - (757) 549-0449, eves.

### **AUSTRALIA - Dec. 4**

**HIST. RADIO SOC. OF AUSTRALIA  
VICTORIAN GROUP - AUCTION**  
Victoria - St. Andrew's Uniting Church Hall  
12:30 pm

Info: Doug Ellis - (03) 9802 0577

### **ARKANSAS - Dec. 2**

**ANTIQUÉ RADIO COLLECTORS CLUB  
OF FORT SMITH  
MEETING**

Fort Smith, AR - St. Luke Lutheran Church  
Waldron Road, at Free Ferry

7:30 pm

Info: Paul Tucker, 4700 N. "N" St.  
Fort Smith, AR 72904 - (501) 782-8178

### **CONNECTICUT - Dec. 4**

**VINTAGE RADIO &  
COMMUNICATIONS MUSEUM  
INDOOR SWAP**

E. Hartford - St. Johns Church  
Main Street

Time: TBA

Info: John Ellsworth - (860) 675-9916

### **NEVADA - Dec. 2**

**NEVADAN ENTHUSIASTS FOR  
ANTIQUÉ RADIOS  
MEETING**

Las Vegas, NV - Sunset Road Library  
Corner of Green Valley Pkwy. & Sunset Rd.

7 pm

Info: Cort & Eileen Ancman, 1881 Capo San Vito  
Ave., Las Vegas, NV 89123 - (702) 312-7110

### **FLORIDA - Dec. 4**

**AWA - MEET**

Bradenton, FL - Stewart Elementary School  
7950 15th Ave. NW

8 am

Info: Norm Smith - (941) 792-0003

### **AUSTRALIA - Dec. 4**

**HIST. RADIO SOC. OF AUSTRALIA  
AUCTION**

Sydney - 2WS Carpark

Noon

Small Valve Radios

Info: John McIlwaine - (02) 4332-6008

### **NEW JERSEY - Dec. 4**

**NEW JERSEY ANTIQUE RADIO CLUB  
INDOOR SWAPMEET**

Hightstown, NJ - Hightstown Country Club

8 am-3 pm

Info: Marv Beeferman - (609) 693-9430  
Phil Vourtsis - (732) 446-2427

### **TEXAS - Dec. 4**

**HOUSTON VINTAGE RADIO ASSOC.  
CHRISTMAS PARTY**

Houston, TX - Lucky Ling Rest., Tides II  
Hotel, 6700 S. Main St. at Holcombe

Time: TBA

Chinese Buffet  
Donation Auction

Door Prizes for All Ages

Info: Bill Werzner - (713) 721-2242  
mingqi53@earthlink.net

A free\* listing on these pages is available for each coming antique radio event. Sponsors should provide description of event, date, time, place, directions, & information/contact person. Since listings are on a "space available" basis, no guarantee of listing is made.\*Club/museum/non-profit events are listed free; other events are obtained from advertisements placed elsewhere in A.R.C. Sorry, we don't have room for hamfests.

**SUBMISSION DEADLINE: 5th OF MONTH**



## **TEXAS - Dec. 4**

### **VINTAGE RADIO & PHONO. SOCIETY CHRISTMAS PARTY**

6-11 pm

Irving, TX - Jaycee Arts Building

Info: George Potter - (972) 353-4862  
VRPS, PO Box 165345, Irving, TX 75016

## **OREGON - Dec. 11**

### **NORTHWEST VINTAGE RADIO SOCIETY MEETING**

Oregon City, OR - Abernethy Grange Hall  
15745 S. Harley Ave

10 am

Info: Ed Charman, PO Box 82379  
Portland, OR 97282-0379 - (503) 654-7387

## **WASHINGTON - Dec. 4**

### **RADIO ENTHUSIASTS OF PUGET SOUND MEETING**

Seattle, WA - Queen Anne Library  
400 W. Garfield

2 pm

Info: REPS, 9936 N.E. 197th Street  
Bothell, WA 98041 - (206) 488-9518

## **ILLINOIS - Dec. 12**

### **ANTIQUÉ RADIO CLUB OF ILLINOIS DONATION AUCTION**

Elgin, IL - Elgin Plaza Hotel  
345 River Rd., Indoor - Ballroom

7 am-Noon

Info: A.R.C.I., PO Box 1139, LaGrange Park,  
IL 60526 - E-mail: arci31280@aol.com

## **NEW YORK - Dec. 5**

### **GREATER NEW YORK VINTAGE WIRELESS ASSOCIATION SWAP MEET**

Lake Ronkonkoma, NY - 367 Hawkins Ave.  
8 am-Noon

Info: Chris Lieppert - (516) 471-9525  
Chris Bacon - (516) 821-7618

## **NEW MEXICO - Dec. 12**

### **NEW MEXICO RADIO COLLECTORS CLUB MEET**

Albuquerque, NM - Anna Kaseman Hospital  
8300 Constitution Ave. (W. of Wyoming)

1:30 pm - Tailgate Swap Meet  
2 pm - Program, Show & Tell  
and Auction

Info: Chuck Burch, 39 Chaco Loop, Sandia Park,  
NM 87047 - (505) 286-9674 - ChuckBurch@aol.com

## **W. VIRGINIA - Dec. 5**

### **MUSEUM OF RADIO & TECHNOLOGY MUSEUM FOUNDATION ANNUAL BANQUET**

Huntington, WV - 1640 Florence Ave.

Time: TBA

Info: MRAT - (304) 525-8890

## **NEW ZEALAND - Dec. 12**

### **NEW ZEALAND VINTAGE RADIO SOCIETY WELLINGTON MEETING**

Wellington - Tireti Hall  
Te Pene Ave., Titahi Bay

1 pm

Info: Bob Hatton, 40 Rose St.  
Wadestown - 04-4728788

## **ARKANSAS - Dec. 9**

### **ARKANSAS ANTIQUE RADIO CLUB MEETING**

Little Rock, AR - Books A Million  
Markam & Bowman Rd.

7 pm

Info: Tom Burgess - (501) 455-0773  
(Call to confirm details)

## **NEW YORK**

### **ANTIQUÉ WIRELESS ASSOCIATION ELEC. COMMUNICATION MUSEUM**

Bloomfield, NY - Village Green  
Rts. 5 & 20 - (716) 657-6260

May 1-Oct. 31 - Sunday, 2 pm-5 pm  
Jun. 1-Aug. 31 - Saturday, 2 pm-4 pm  
Jul. 1-Aug. 31 - Wednesday, 7 pm-9 pm  
Closed Holidays

Info: Ed Gable, Curator, AWA Museum,  
187 Lighthouse Rd., Hilton, NY 14468

## **NEW JERSEY - Dec. 10**

### **NEW JERSEY ANTIQUE RADIO CLUB MEETING**

Freehold, NJ - Grace Lutheran Church  
West Main St. & Park Ave. (Old Rt. 33)

7:30 pm

Info: Marv Beeferman - (609) 693-9430  
Phil Vourtsis - (732) 446-2427

**Attend a radio event near you, learn,  
meet others in the hobby, and perhaps  
find an item or two for your collection!**

## MARK YOUR CALENDAR

Dec. 1 - VA, TBA - TARA Meeting  
Dec. 2 - AR, Fort Smith - ARCCFS Meeting  
Dec. 2 - NV, Las Vegas - NEAR Meeting  
Dec. 4 - Australia, Sydney - HRSA Swap Meet  
Dec. 4 - Australia, Victoria - HRSA Swap Meet  
Dec. 4 - CT, E. Hartford - VRSM Swap Meet  
Dec. 4 - FL, Bradenton - AWA Meet  
Dec. 4 - NJ, Hightstown - NJARC Swapmeet  
Dec. 4 - TX, Houston - HVRA Christmas Party  
Dec. 4 - TX, Irving - VRPS Christmas Party  
Dec. 4 - WA, Seattle - REPS Meeting  
Dec. 5 - NY, Lake Ronkonkoma - GNYVWA Swap  
Dec. 5 - WV, Huntington - MRAT Awards Banquet  
Dec. 9 - AR, Little Rock - AARC Meeting  
Dec. 10 - NJ, Freehold - NJARC Meeting  
Dec. 11 - OR, Oregon City - NWVRS Meeting  
Dec. 12 - IL, Elgin - ARCI Meeting  
Dec. 12 - New Zealand, Wellington - NZVRS Meet  
Dec. 12 - NM, Albuquerque - NMRC Meet  
Dec. 12 - TX, Garden Ridge - TARC Christmas Party  
Dec. 12 - WA, Seattle - PSARA Meeting  
Dec. 13 - GA, Norcross - SARS Meeting  
Dec. 14 - MO, Kirkwood - ARCHGSL Meeting  
Dec. 14 - NC, Greenville - ECARC Meeting  
Dec. 14 - OH, Kettering - ARCO Meeting  
Dec. 14 - PA, Telford - DVHRC Meet & Auction  
Dec. 15 - OH, Cincinnati - CARS Meeting  
Dec. 16 - NY, Hudson Valley - HARPS Meeting  
Dec. 19 - MD, Burtonsville - MAARC Meeting  
Dec. 20 - New Zealand, Auckland - NZVRS Meet  
Dec. 21 - CA, Sacramento - CHR-Sac. Meeting  
Dec. 22 - Austria, Vienna - Dorotheum Auction  
Dec. 28 - OH, Kettering - SPARK Meeting  
Jan. 1 - WA, Seattle - REPS Meeting  
Jan. 2 - NY, Lake Ronkonkoma - GNYVWA Swap  
Jan. 5 - VA, TBA - TARA Meeting  
Jan. 6 - AR, Fort Smith - ARCCFS Meeting  
Jan. 6 - NV, Las Vegas - NEAR Meeting  
Jan. 8 - CA, Valencia - SCARF Meet  
Jan. 8 - OK, Oklahoma City - OKVRC Meeting  
Jan. 8 - OR, Oregon City - NWVRS Meeting  
Jan. 9 - CO, Denver - CRC Meeting  
Jan. 9 - NM, Albuquerque - NMRC Meet  
Jan. 10 - GA, Norcross - SARS Meeting  
Jan. 11 - MO, Kirkwood - ARCHGSL Meeting  
Jan. 11 - NC, Greenville - ECARC Meeting  
Jan. 11 - OH, Kettering - ARCO Meeting  
Jan. 11 - PA, Telford - DVHRC Meet & Auction  
Jan. 13 - AR, Little Rock - AARC Meeting  
Jan. 14 - NJ, Freehold - NJARC Meeting  
Jan. 22 - NH, Nashua - NEARC Meet  
Jan. 23 - British Columbia - CVRS Chapter Meeting  
Jan. 29 - OH, Reynoldsburg - COARA Cabin Fever  
Feb. 4-6 - TX, Houston - HVRA-AWA Convention  
Mar. 23-25 - NC, Charlotte - CC-AWA 25th Spring Meet  
Apr. 22 - NH, Nashua - NEARC Meet  
May 19-20 - MN, Plymouth - Radio Daze 2000  
May 19-21 - OH, Dayton - Hamvention  
Jun. 8-10 - IN, Indianapolis - IHRS/AWA Spring Fling  
Jul. 7-9 - MI, Lansing - MARC Extravaganza '00  
Jul. 15 - NH, Nashua - NEARC Meet  
Aug. 4-6 - IL, Elgin - ARCI Radiofest XIX  
Oct. 21 - NH, Nashua - NEARC Meet  
See expanded listing for many of these events

Although non-members are welcome at all events, joining may be required at some. Admission is charged at some events.

## TEXAS - Dec. 12

**TEXAS ANTIQUE RADIO CLUB  
MEETING/CHRISTMAS PARTY**  
Garden Ridge, TX - 8435 Twisted Oaks  
Richard Igou's Home  
2:30 pm  
Info: Jim Moffett, 218 Shannon Lee, San Antonio, TX 78216 - (210) 826-4938

## WASHINGTON - Dec. 12

**PUGET SOUND  
ANTIQUÉ RADIO ASSOCIATION  
MEETING**  
Seattle, WA - Shoreline Museum  
N. 175th & Linden Ave.  
9 am-Noon - Tailgate Swap Meet  
Noon - Meeting, Program, Show & Tell  
Info: Pete Petersen, PO Box 7251  
Seattle, WA 98133 - (425) 747-1323

## GEORGIA - Dec. 13

**SOUTHEASTERN ANTIQUE RADIO SOC.  
MEETING WITH SHOW & TELL**  
Norcross, GA - Picadilly Cafeteria  
3400 Holcomb Bridge Road  
6:30 pm  
Topic: Anything Goes  
Info: Gordon Hunter - (770) 475-0713  
SARS, PO Box 500025, Atlanta, GA 31150

## MISSOURI - Dec. 14

**ANTIQUÉ RADIO COLLECTORS &  
HISTORIANS OF GREATER ST. LOUIS  
MEETING**  
Kirkwood, MO - Kirkwood Community Center  
111 S. Geyer Rd., Room 201-A  
7:30 pm - Meeting  
(earlier for conversation)  
Show & Tell, Swap Table  
Info: Derek Cohn, 8141 Stratford Dr.,  
Clayton, MO 63105 - (314) 725-2333

## MARYLAND

**RADIO - TELEVISION MUSEUM**  
Bowie, MD - 2608 Mitchellville Rd.  
Corner of Mitchellville & Mount Oak  
Saturday & Sunday, 1 pm-4 pm  
And by Special Appointment  
Info: (301) 390-1020  
[www.radiohistory.org](http://www.radiohistory.org)

**MENTION A.R.C.  
WHEN CONTACTING CLUBS!**

## **N. CAROLINA - Dec. 14**

### **EAST CAROLINA ANTIQUE RADIO CLUB MEETING - NEW LOCATION**

Greenville, NC - Golden Corral Rest.  
504 S.W. Greendale Blvd.

6:30 pm

Info: Bill Engstrom - (252) 355-8732  
Herman Schnur - (252) 752-2264

## **MARYLAND - Dec. 19**

### **MID-ATLANTIC ANTIQUE RADIO CLUB MEETING**

Burtonsville, MD - Seventh Day Adventist Church  
15121 McKnew (Between Rt. 29 & I-95, off Rt. 198)

2 pm

Info: Ed Lyon, 11301 Woodland Way,  
Myersville, MD 21773 - (301) 293-1773

## **OHIO - Dec. 14**

### **ANTIQUERADIO COLLECTORS OF OHIO MEETING**

Kettering, OH - National City Bank Basement  
4100 Far Hills Ave., at Stroop Rd.

7:30 pm

Topic: Radio Literature and Advertising

Info: John Heck - (937) 435-1571  
ARCO, PO Box 292292, Kettering, OH 45429

## **NEW ZEALAND - Dec. 20**

### **NEW ZEALAND VINTAGE RADIO SOCIETY AUCKLAND MEETING**

Auckland - Horticultural Soc. Hall, Chamberlain  
Park Golf Clubhouse, 99C Great North Rd.

7:30 pm

Info: Ian Sangster - lan.Sangster@airnz.co.nz

## **PENNSYLVANIA - Dec. 14**

### **DELAWARE VALLEY HISTORIC RADIO CLUB MEETING - SWAP MEET - AUCTION**

Telford, PA - Telford Community Bldg.  
Hamilton & Hamlin

7:30 pm

Info: Bill Overbeck, PO Box 847,  
Havertown, PA 19083

## **CALIFORNIA - Dec. 21**

### **CALIF. HISTORICAL RADIO SOCIETY SACRAMENTO CHAPTER MEETING**

Sacramento, CA - SMUD Building  
Corner of Elkhorn & Don Julio

7 pm

Info: CHRIS Hotline - (415) 821-9800

## **OHIO - Dec. 15**

### **CINCINNATI ANTIQUE RADIO SOCIETY MEETING**

Norwood, OH - ITT Technical Institute  
4750 Wesley Ave.

7:30 pm

Info: Greg Tierney - (937) 732-1844

## **AUSTRIA - Dec. 22**

### **AUCTIONHOUSE DOROTHEUM 9. HISTORICAL RADIO AUCTION**

Vienna - Erlachgasse 90

2 pm

Info: Dr. Gerti Draxler - +43-1/515 60-226  
<http://www.dorotheum.com>

## **NEW YORK - Dec. 16**

### **HUDSON VALLEY ANTIQUE RADIO AND PHONO. SOCIETY - MEETING**

Goshen, NY - Catawac Fire House

7 pm-9 pm

Info: Peter DeAngelo - (914) 496-5130  
(Call to confirm details)

## **OHIO - Dec. 28**

### **SOCIETY FOR PRESERVATION OF ANTIQUERADIO KNOWLEDGE MEETING**

Kettering, OH - Party Room at Cassano's  
Pizza, 1700 E. Stroop Rd.

7:30 pm

Topic: Charles Herrold

Info: PO Box 482, Dayton, OH 45449  
E-mail: sparkinc@juno.com

## **WASHINGTON - Jan. 1**

### **RADIO ENTHUSIASTS OF PUGET SOUND MEETING**

Seattle, WA - Queen Anne Library  
400 W. Garfield

2 pm

Info: REPS, 9936 N.E. 197th Street  
Bothell, WA 98041 - (206) 488-9518

*NOTE: The "Coming Radio Events" pages are tabulated from the best information available to A.R.C. However, changes, cancellations and errors do occur. To avoid disappointment, verify place, date and time especially for events which are new to you.*

## **NEW YORK - Jan. 2**

### **GREATER NEW YORK VINTAGE WIRELESS ASSOCIATION SWAP MEET**

Lake Ronkonkoma, NY - 367 Hawkins Ave.  
8 am-Noon

Info: Chris Lieppert - (516) 471-9526  
Chris Bacon - (516) 821-7618

## **VIRGINIA - Jan. 5**

### **TIDEWATER ANTIQUE RADIO ASSOC. MEETING**

Call for location & directions  
7 pm

Info: Vic Johnston - (757) 825-0757, eves.  
Scott Balderston - (757) 549-0449, eves.

## **ARKANSAS - Jan. 6**

### **ANTIQUA RADIO COLLECTORS CLUB OF FORT SMITH - MEETING**

Fort Smith, AR - St. Luke Lutheran Church  
Waldron Road, at Free Ferry  
7:30 pm

Info: Paul Tucker, 4700 N. "N" St.  
Fort Smith, AR 72904 - (501) 782-8178

## **NEVADA - Jan. 6**

**NEVADAN ENTHUSIASTS FOR  
ANTIQUA RADIOS - MEETING**  
Las Vegas, NV - Sunset Road Library  
Corner of Green Valley Pkwy. & Sunset Rd.  
7 pm

Info: Cort & Eileen Ancman, 1881 Capo San Vito  
Ave., Las Vegas, NV 89123 - (702) 312-7110

## **CALIFORNIA - Jan. 8**

### **SO. CAL. ANTIQUA RADIO FEST MEET**

Valencia, CA - Valencia Travel Village  
27961 Hwy. 126  
6 am - 11 am

Info: Jerry Simpson - (661) 251-7829  
Phil Rheinschild - (815) 583-1121

## **NEVADA**

**VIRGINIA CITY RADIO MUSEUM**  
Virginia City, NV - 109 So. "F" Street  
May-Oct. - daily, 11 am-5 pm  
Nov.-Apr. - Call ahead for hours

Info: Henry & Sharon Rogers, PO Box 511  
Virginia City, NV 89440 - (775) 847-9047

## **OKLAHOMA - Jan. 8**

### **OKLA. VINTAGE RADIO COLLECTORS MEETING**

Oklahoma City, OK - Oklahoma Station BBQ  
Springdale Shopping Center, 4333 N.W. 50th  
6 pm: Dinner  
7 pm: Meeting

Info: Jim Collings - (405) 755-4139, after 6 pm  
Mike Lapuzza - (405) 745-3394, after 7 pm

## **OREGON - Jan. 8**

### **NORTHWEST VINTAGE RADIO SOCIETY MEETING**

Oregon City, OR - Abernethy Grange Hall  
15745 S. Harley Ave.

10 am

Info: Ed Charman, PO Box 82379  
Portland, OR 97282-0379 - (503) 654-7387

## **COLORADO - Jan. 9**

### **COLORADO RADIO COLLECTORS MEETING**

Denver, CO - VecraBank Bldg.  
1380 South Federal Ave.

1 pm

Info: Larry Weide - (303) 758-8382

## **NEW MEXICO - Jan. 9**

### **NEW MEXICO RADIO COLLECTORS CLUB MEET**

Albuquerque, NM - Anna Kaseman Hospital  
8300 Constitution Ave. (W. of Wyoming)

1:30 pm - Tailgate Swap Meet  
2 pm - Program, Show & Tell  
and Auction

Info: Chuck Burch, 39 Chaco Loop, Sandia Park,  
NM 87047 - (505) 286-9674 - ChuckBurch@aol.com

## **GEORGIA - Jan. 10**

### **SOUTHEASTERN ANTIQUA RADIO SOC. MEETING WITH SHOW & TELL**

Norcross, GA - Picadilly Cafeteria  
3400 Holcomb Bridge Road

6:30 pm

Topic: TBA

Info: Gordon Hunter - (770) 475-0713  
SARS, PO Box 500025, Atlanta, GA 31150

## **SUBMISSION DEADLINE**

**5th OF MONTH**

Please include date, time, place, directions,  
event details & information/contact person.

### **MISSOURI - Jan. 11**

#### **ANTIQUE RADIO COLL. & HIST. OF GREATER ST. LOUIS - MEETING**

Kirkwood, MO - Kirkwood Community Center  
111 S. Geyer Rd., Room 201-A

7:30 pm - Meeting (earlier for conversation)  
Show & Tell, Swap Table

Info: Derek Cohn, 8141 Stratford Dr.,  
Clayton, MO 63105 - (314) 725-2333

### **NEW JERSEY - Jan. 14**

#### **NEW JERSEY ANTIQUE RADIO CLUB MEETING**

Freehold, NJ - Grace Lutheran Church  
West Main St. & Park Ave. (Old Rt. 33)  
7 pm

Info: Marv Beeferman - (609) 693-9430  
Phil Vourtsis - (732) 446-2427

### **N. CAROLINA - Jan. 11**

#### **EAST CAROLINA ANTIQUE RADIO CLUB MEETING - NEW LOCATION**

Greenville, NC - Golden Corral Rest.  
504 S.W. Greendale Blvd.

6:30 pm

Info: Bill Engstrom - (252) 355-8732  
Herman Schnur - (252) 752-2264

### **NEW HAMPSHIRE - Jan. 22**

#### **NEW ENGLAND ANTIQUE RADIO CLUB SWAP MEET**

Nashua, NH - Resurrection Center  
Rt. 3 (Everett Turnpike) Exit 6  
1 1/2 miles West on Rt. 130, 449 Broad St.

7:30-8 am - Real Early Admission

8-9 am - Early Admission

9 am-1 pm - General Admission

Over 100 tables - 50/50 Raffle - CATERED  
Old Equipment Contest

Reservations required to sell

Info: Gregg Thompson, PO Box 298  
Newtonville, MA 02160  
NEARC: (617) 923-2665

### **OHIO - Jan. 11**

#### **ANTIQUE RADIO COLLECTORS OF OHIO MEETING - TOPIC: TBA**

Kettering, OH - National City Bank Basement  
4100 Far Hills Ave., at Stroop Rd.

7:30 pm

Info: John Heck - (937) 435-1571  
ARCO, PO Box 292292, Kettering, OH 45429

### **BRITISH COLUMBIA - Jan. 23**

#### **CANADIAN VINTAGE RADIO SOCIETY BRITISH COLUMBIA CHAPTER MEETING**

Richmond, BC - Steveston Hotel

Info: Fred Tutt - (604) 275-2033

### **PENNSYLVANIA - Jan. 11**

#### **DELAWARE VALLEY HISTORIC RADIO CLUB MEETING - SWAP MEET - AUCTION**

Telford, PA - Telford Community Bldg.  
Hamilton & Hamlin

7:30 pm

Info: Bill Overbeck, PO Box 847,  
Havertown, PA 19083

### **OHIO - Jan. 29**

#### **CENTRAL OHIO ANTIQUE RADIO ASSOC.**

#### **7TH ANNUAL CABIN FEVER INDOOR SHOW & FLEA MARKET**

Reynoldsburg, OH - IBEW Building  
610 Lancaster Ave.

8 am - 12 pm

Info: Barry Gould - (614) 777-8534

Chuck Davis - (614) 792-6237

### **ARKANSAS - Jan. 13**

#### **ARKANSAS ANTIQUE RADIO CLUB MEETING**

Little Rock, AR - Books A Million  
Markam & Bowman Rd.

7 pm

Info: Tom Burgess - (501) 455-0773

### **TEXAS - Feb. 4-6**

#### **HOUSTON VINTAGE RADIO ASSOC.**

#### **Y2K HVRA-AWA CONVENTION**

Houston, TX - Hobby Airport Hilton  
Hotel - (713) 645-3000

Time: TBA

2 Auctions

Awards Banquet

Old Equipment Contest  
Flea Market

Info: Bill Werzner - (713) 721-2242  
mingqi53@earthlink.net

*Submit your event listing to A.R.C.  
arc@antiqueradio.com or fax: (978) 371-7129.  
Or mail to: PO Box 2, Carlisle, MA 01741.*

**Clubs, Have You Submitted Your  
2000 Meeting Schedule  
to Antique Radio Classified Yet?**

## BUSINESS CARD ADS - \$53.00 FOR 3 MONTHS

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(561) 246-8911  
bocalab@bellsouth.net



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Streamline, Machine Age Design

### INSTRUMENTS



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## DECALS & DIAL SCALES

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Ojai, CA 93023

**Mike Tobin**  
(805) 646-7362  
dials@juno.com  
http://members.aol.com/RockSeaEnt



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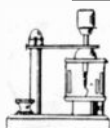
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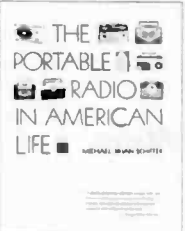
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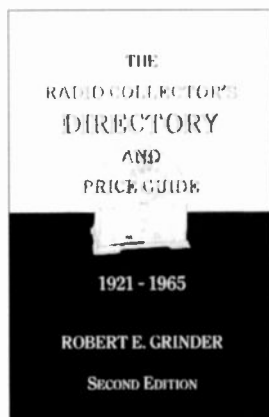
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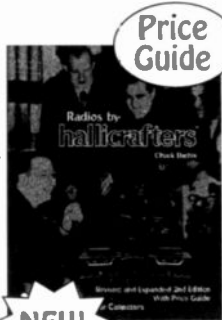


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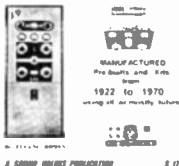


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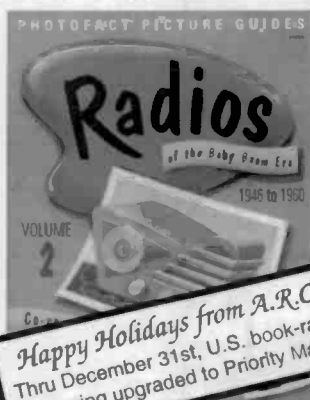


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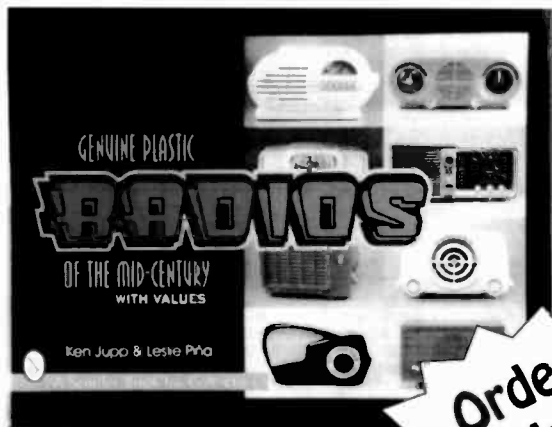


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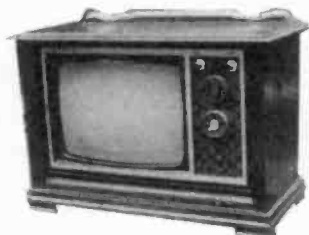
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We now offer **FREE** evaluation of your TV's online:  
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**FOR SALE: FADA 880 Art Deco Projection TV,** circa 1947! A very rare and unique television: most 880's were sold in square cabinets—but this has the Deco look FADA has become famous for. Excellent and complete early FADA TV....**\$429**

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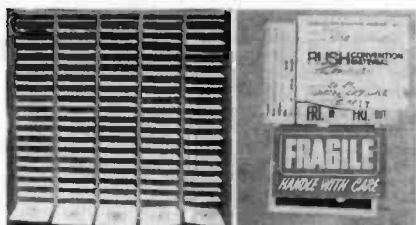


10 Inches!

Only 10" tall, this looks just like a top-of-the-line RCA console from 1970, but this television was made to be displayed on the dealer's counter! It's in excellent condition and still works ...**\$203**



**FOR SALE: Pilot TV-37 with Magnifier.** This 3" cutie from 1947 always impresses friends and visitors! Comes with the scarce, original tiny magnifier. As found, clean and complete...**\$332**  
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**FOR SALE: TELEFUNKEN Transistor display!** This convention set-up with 92 carded solid state devices was displayed by show representatives, with germanium and silicon transistors, etc. In exc condition-ready for "Best of Show"...**\$99**

**FOR SALE: 10 Pre-Recorded Musical 7" Reel-to-Reel tapes!**

10 vintage tapes with various types of music. These 7" reels were recorded at 7-1/2"/sec, and you can test your tape recorders! All 10...**\$16**

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**ONE FREE 20-WORD AD** for subscribers in each issue; additional words are 29¢ each. See details below. Classified ads sent by mail, fax, e-mail or by any other method must be received (not just postmarked!) by **Noon Eastern Time** on the classified ad deadline date to guarantee inclusion in the current issue. Late ads are held for the following issue. Please enclose correct payment with all ads. Stamps or cash are OK for small amounts. (Canadian and other foreign advertisers, please see "Payment" on page 2 for methods.) "Free words" cannot be accumulated from month to month; free words must be requested when ad is submitted.

**Faxed & e-mailed ads:** Please see additional information on the inside front cover.

**When including ads with other A.R.C. correspondence, write the ads on a separate piece of paper.** Include SUB# with ad. Ads may be sent in advance; but, write each ad on a separate piece of paper and indicate the month (or successive two months) you want the ad to run.

**To minimize our typing errors: Please write legibly.** Use both capital and small letters. Do not use a dash between words. Carefully write the following numbers and letters (especially in model numbers) since some can look alike; for example 1, l and I (the number one, the capital i and the small L.) Also: 0, O, o, Q and D; r and n; 6, b and G; V, U, u, v and Y; A and R; 5, S and s; 2, Z and z. We try to correct spelling errors, so when using an uncommon word or manufacturer which we might mistake as a more common word or manufacturer, note it so that we do not "correct" it. Editor's annotations are in [brackets].

**Advertising is accepted only for early items related to radio, communication, etc. All items must be described fairly; reproductions, reprints and not-original items must be so identified. Advertisers must agree to respond promptly to inquiries and orders, to resolve problems promptly if the buyer is not satisfied, and to comply with a buyer's refund request on unaltered returned items.**

The publisher reserves the right to edit ads without notification to the advertiser and to reject ads for any reason. Names other than the advertiser will be edited out of ads. Ads with non-radio-related items will be returned or edited unless the non-radio-related items are for trade of radio-related items, or they are incidental to and appear at the end of an otherwise acceptable ad. The publisher is not responsible for errors due to illegibly written ads or for any other reason. See also Publishing Rights on page 2.

**Clubs:** Since club activities receive free coverage on the *Coming Radio Events* pages, the free 20 words may not be used for club activity ads. A discount on display advertising is available for clubs.

## CLASSIFIED AD DETAILS

**Deadline: NOON ET— 10th of the month!**

Classified ads must have a standard heading such as **WANTED, FOR SALE, FOR TRADE, FOR SALE/TRADE, SERVICES, MESSAGE, HELP, AUCTION, MEET, etc.** This heading is the only bold or all-capitalized words allowed in the ad. Capitalize only manufacturer names, model names, etc. This standard ad format makes scanning the ads easier.

Before writing your ad, please look over the ads in a recent issue of A.R.C., and try to write your ad in the same style. Full name (or company name) and address is required in all classified ads; we will add it if you forget.

To encourage varied content of the ads, the same classified ad may be run only once per issue and for only two consecutive months. (To run an ad longer, use a boxed classified or display ad.)

### Classified Ad Rates per Month

Subscribers:

First 20 words: **FREE\***

29¢ per word for extra words over 20 **plus**

10¢ per word for a shaded ad (count all words including free words).

\* Subscribers may take 20 free words on only **one** ad each month.

Non-Subscribers:

47¢ per word **plus**

10¢ per word for shaded ad.

Please do not forget to send in the extra 29¢ per word when your classified ad runs over the free 20 words; your payment will be appreciated, and it will help to keep A.R.C. healthy.

## BOXED CLASSIFIED AD DETAILS

**Deadline: 1st of the month!**

Boxed classified ads can run unchanged for three months or more. No words are free. Ads may be shaded and may include bold and all-capitalized words freely. The ad need not begin with "For Sale," etc. Minimum run is 3 months, prepaid. Discount: 10% for 6 months; 20% for 12 months.

### Boxed Classified Ad Rates per Month

Nonshaded ads:

40¢ per word for all words,\* none free, **plus**

10¢ per word for each bold word **plus**

10¢ per word for each all-caps word.

Shaded Ads (All words are bold at no charge):

50¢ per word for all words\* **plus**

10¢ per word for each all-caps word.

Non-Subscribers:

Add 20¢ per word to above costs.

\*Three words can be bold-all-caps at no extra charge.

## PHOTO & DRAWING DETAILS

**Deadline: 1st of the month**

**for all ads with drawings or photos!**

Drawings and photos are encouraged as the response to your ad is much larger and the reader knows better what you want or are selling. Send in your drawing or photograph, and A.R.C. will reduce it or enlarge it as needed.

### Photo and Drawing Rates per Month

\$23.00 per month for each photo or drawing (If ad is canceled, this amount cannot always be refunded.)

## CHANGES & CANCELLATIONS

Please check your ads carefully before sending them in. Once ads are received, it is not always possible to refund the amount sent, pull the ad or make changes.

## IMPORTANT — COUNTING WORDS — IMPORTANT

The standard headings: **WANTED, FOR SALE, etc.**, count as **one word** each time used in an ad. **Name, address** and (one) **telephone number**, count as **6 words**, regardless of length. Ham call letters and business name can be included in the 6 words and do not count extra. Full name (or company name) and address is required in all classified ads. Each additional word, abbreviation, model number or number group, extra telephone numbers, fax, e-mail, etc. count as one word each. Hyphenated words count as two words.

PERIODICALS



A.R.C., P.O. Box 2, CARLISLE, MA 01741  
ADDRESS SERVICE REQUESTED

88\*6\*\*\*\*\* ALL FOR ADC 780  
6-CJ SUB#-27-777 [3630] EXP=JUN01  
JOE W MCCLUGHAN  
PO BOX 310465  
NEW BRAUNFELS TX 78131

**CLASSIFIED AD  
DEADLINE DEC. 10th  
Noon Eastern Time**