

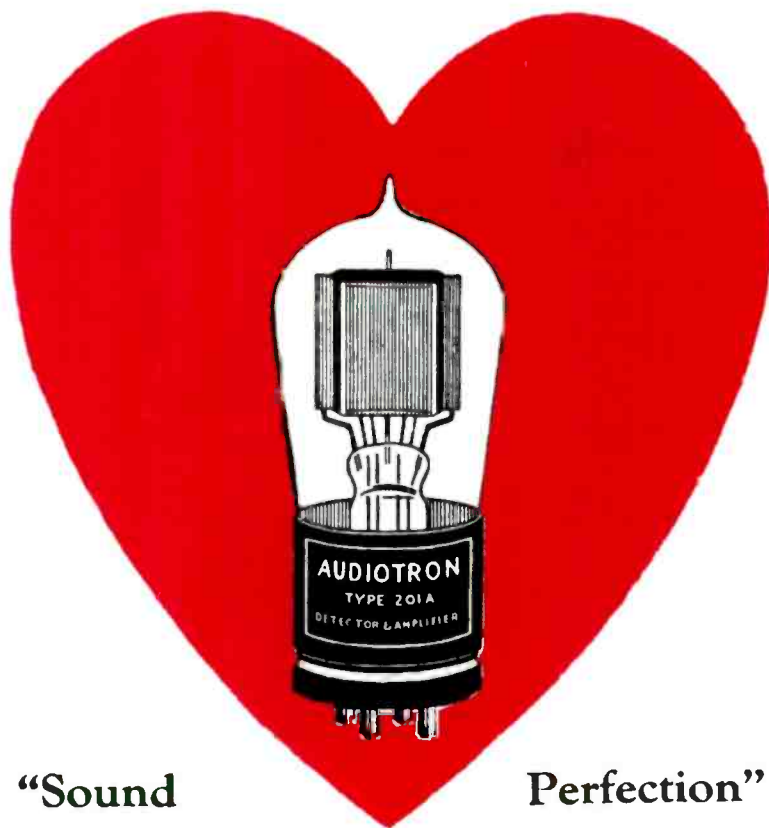


VOLUME 17

FEBRUARY 2000

NUMBER 2

THE HEART of YOUR RADIO SET



“Sound

Perfection”

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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1/4	5 1/4 x 3 9/16		3 5/16 x 2 1/4	
1/8	2 5/8 x 3 9/16		1 5/8 x 2 1/4	
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We assume that advertisers want all ads which are submitted to run without delay; therefore, we will run the ad and bill for any additional work required for the ad to meet these specifications. A late ad will run beginning with the next month. "Tear sheets" will be sent only for 1/8-page or larger ads and only if requested when the ad is submitted.

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Cost for 1-month	Cost for 3-months	Cost for 6-months	Cost for 12-months	One Time to make up Ad
\$289.00	\$769.00	\$1,329.00*	\$2,325.00**	\$69.00†
146.00	389.00	675.00*	1175.00**	37.00†
146.00	389.00	675.00*	1175.00**	37.00†
74.00	197.00	342.00	595.00	19.00†
38.00	101.00	177.00	305.00	9.00†
not avail.	53.00	90.00	159.00	7.00†
not avail.	68.00	118.00	205.00	7.00†



ANTIQUE RADIO CLASSIFIED

EDITOR'S COMMENTS

What could be special about the second month of a new year? Usually not much more than the hearts and flowers of Valentine's Day. But, each time that we make the effort to write "20--" instead of "19--", we realize that this period of transition to a new century and a new millennium is, indeed, special.

Of course, the purists remind us that 2001, not 2000, is the real beginning of the new millennium (see *Radio Miscellanea*), but we have chosen, along with most people, to celebrate it now. A millennium is, after all, any period of 1000 years. Almost in defiance of the purists and in defense against the Y2K bug, the whole world seemed to join in the party — and the fight.

It appears that this fight has been won and that the potential Y2K problem has come and gone. Not without costs, however, as A.R.C. did have to make changes to its computer systems. Four years ago we found that some long-term renewals were not being reflected properly in our computerized subscription files. The cost was about 100 hours of reprogramming and data entry to correct the oversight made in 1986. All now seems to be functioning well, but any needed additional changes will be made as we proceed into the year 2000.

The challenges of the Internet remain and cannot be ignored, especially by print publications who see a migration of some of their readership to the Internet. While these publications now must maintain a Web site in order to compete, other changes are taking place.

For example, Gernsback Publications, publisher of *Modern Electrics* and *Radio News*, is combining its two 1999 magazines, *Popular Electronics* and *Electronics Now*, into the new *Poptronics*. The *Ham Trader Yellow Sheets* have been merged into the *Amateur Radio Trader*. Columns on antique radio are also evolving — Mark Ellis has moved his "Antique Radio" column from *Popular Electronics* to *Monitoring Times*, and *QST* is adding an antique radio column penned by John Dilks.

A.R.C. too is adapting to the times with its expanded presence on the Internet. The number of paid subscribers, having grown to 8,222 in 1995, numbered 7,089 in 1999. In this same time period, however, the "hits" on our Web home page grew from about 500 per month to over 9,000 per month today. Over 47,000 A.R.C. Web pages are viewed monthly. It is possible that more people "read" some portion of A.R.C. via the Internet than in the printed form. Soon, A.R.C.'s display advertisers will be able to take advantage of this exposure.

As we have for the past fifteen years, A.R.C. will continue to service the antique radio community for years to come in whatever formats our readers prefer. Information about all aspects of our hobby is A.R.C.'s business, which brings us to the content of this issue.

Featured this month is more on that basic reference resource — Rider's manuals. Charles Kirsten continues his review with an analysis of the various versions of Volume II of the *Trouble Shooter's Manual* series. Thousands of radio schematics were published by John F. Rider in these manuals which ultimately grew to over

20 volumes covering radios alone.

Inspired by the article on ship speakers in a past issue, Dave Gonsior has written about another ship, but this one functions as an antenna. What other ship-radio items can there be out there?

Complementing our cover illustration of the Apex vacuum tube, George A. Fathauer has helped us to develop a short article on this tube. A review of George's book — *Radio Tubes and Boxes of the 1920's* — by Dick Bergeron is paired with the Apex article. Early vacuum tube collecting continues to grow as indicated by other books on the subject and the interest at auctions.

George and Michael Potter report on the action at the Vintage Radio and Phonograph Society Convention in Texas on October 29-31, 1999. Although the auctions, which totaled over \$55,000, are always extraordinary events, seminars, an old equipment contest, a flea market, and a banquet are featured as well. In fact, your editor was the banquet speaker this year. (The A.R.C. staff is delighted to have a photo proving that I was formally dressed for the occasion.)

For capacitor lovers everywhere, the third installment of Ray Bintliff's "Capacitors in Old Radios" appears in this issue. Ray details the what, how, and why of mica and electrolytic capacitors, including lots of useful information for your next restoration project.

And following up on Ray Bintliff's June 1999 article "Adventures in RCA TV Land," Alton DuBois relates his experiences as a field tech in the late 1940s.

Photo Review shows a Radialamp horn speaker, an unusual Philco television set, and a miniconsole — somewhat reminiscent of the Pastime radio in the May 1995 article by Dick Desjarlais. *Radio Miscellanea* includes comments pro and con on A.R.C., the above referenced comment on the real start of the new millennium, and article feedback on Raytheon tubes from Raytheon itself.

Coming Radio Events. This month, 40 events are listed, including meets in Arizona, Michigan, Georgia, Indiana, and Kansas. Of note are the 3-day HVRA-AWA Convention in Houston, Texas; the SCARS Annual Auction in Van Nuys, California; the Estes Vintage Radio Auction in Seville, Ohio; and, of course, Radio XXXI in Westford, Massachusetts — please make sure to stop by to say "hi" to the A.R.C. staff at this one.

Happy Collecting.

John V. Terrey, Editor

ON THE COVER

Our cover illustration is a "real find" for February from your editor's collection. The 4-page, 3½" x 6" Apex brochure showing the Audiotron tube encased in a heart seems intended to touch the hearts of collectors. In fact, not shown on our cover is the additional invitation to buyers to "Have a Strong Heart — Use Apex Audiotron tubes." The brochure is fact-packed, as seen in the related article, and we wonder how widely it would be read in this sound-bite age.

WITH THE COLLECTORS

The Four Versions of Rider's Trouble Shooter's Manuals — Volume II

BY CHARLES C. KIRSTEN

In this article, Charles Kirsten provides more information regarding the early Rider manuals. This time he clarifies the mysteries surrounding the Rider manuals identified as "Volume II" and recaps some information pertinent to other early volumes. (Editor)

This article is intended as a follow-up to "The Three Versions of Rider's Perpetual Trouble Shooter's Manual, Volume I" which appeared in the June 1998 issue of A.R.C. In that article, I showed the "1931" version as the first *Perpetual Trouble Shooter's Manual* published by John F. Rider. A few readers pointed out that they owned a bound, 1-inch thick book by Rider titled *Trouble Shooter's Manual*, dated 1929, and that its title page reads "Volume II The Service Man's Manual." I was too interested in this new information to be very embarrassed by my error.

On investigation, I found that the 1929 book had truly been Rider's very first attempt to bring out the array of commercial radio diagrams for the serviceman. Since I already had two different editions of Rider's *Perpetual Trouble Shooter's Manual, Volume II* that were printed after the "1931" volume, I could now count three different versions of a Rider's "Volume II."

Then John Bayusik, a director of the Vintage Radio and Communications Museum of Connecticut, sent me photographs of a Rider's *Perpetual Trouble Shooter's Manual, Volume II* with the

date "1932" imprinted on the binder face and spine. Communications with John showed that the 1932 manual was identical to the 1st edition of Rider's *Perpetual Trouble Shooter's Manual, Volume II*, except for the presence of the date "1932" on the binder. Even so, I arbitrarily have called this 1932 version the fourth version of Rider's Volume II.

Table I contains a chronological list of the early Rider radio manuals up to Volume III of the *Perpetual Trouble Shooter's Manual*. Although all manuals listed will be touched on, the emphasis in this article is on the four versions of Volume II which are shown in bold print in this table.

THE SERVICE MAN'S MANUAL, VOLUME I: THE MATHEMATICS OF RADIO

Two correspondents speculated that if there was a Volume II published in 1929, there also had to be a Volume I from 1929 or earlier. Of course, they were right, but the nature of Volume 1 is such that, of those who wrote to me, only Ray Thompson of Johns Hopkins University knew that *The Mathematics of Radio* by John F. Rider was Volume I of "The Service Man's Manual." The cover of this book is shown in Figure 1. Since this volume is really a radio math textbook, rather than a "Trouble Shooter's Manual," it is mentioned only briefly to dispel any mystery associated with it.

An advertisement on page 31 of *Radio World*

Table I — A Chronological List of Early Rider Publications
(Volume IIs Highlighted in Bold)

Publication	Date	Remarks	Pagination *
The Service Man's Manual, Vol. I	1929	<i>The Mathematics of Radio</i>	
The Service Man's Manual, Vol. II	Early 1929	<i>Trouble Shooter's Manual</i>	Sequential
Supplementary Wiring Diagrams	June 1930	115 additional diagrams	
Perpetual Trouble Shooter's Manuals:			
"1931" Edition	May 1931	Update of the 1929 <i>Trouble Shooter's Manual</i>	Numeric/Alpha
Volume I, 2 nd Edition	Nov. 1931		Numeric/Alpha
Volume II, 1st Edition	June 1932	Undated binder	Numeric/Alpha
Volume II, 1st Edition, "1932"	June 1932	Binder and spine dated 1932	Numeric/Alpha
Complete	March 1933	RCA Radiotron & Cunningham Versions	Sequential
Volume III	May 1933		Folio
Volume II, 2nd Edition	Aug. 1933		Folio
Volume I, 3 rd Edition	Nov. 1933		Folio

* Pagination: Sequential = sequential page numbers; Numeric/Alpha = sequential numbers with added pages identified by a letter, or a combination of a letter and a number; Folio = Manufacturer name - Volume No. - Page No.

magazine dated January 4, 1930, provides a good description of this book.

THE SERVICE MAN'S MANUAL, VOLUME II: TROUBLE SHOOTER'S MANUAL

When talking to Charles Coombs, one of the owners of a copy of this 1929 version of Volume II, I mentioned that I had never seen this volume. Three days later, I was overwhelmed to receive, unasked, his copy in the mail as a loan so I might

research the volume. (Thank you Charles.) The front cover and the title page of the 1929 Volume II, shown in Figures 2 and 3, bear the title apparently coined by, and almost exclusively used by, John F. Rider — "Trouble Shooter's Manual." Apparently, this 1929 hard-bound Volume II was intended as an integral manual and not to be a member of the loose-leaf *Perpetual Trouble Shooter's Manual* family.

One hundred pages of this volume show how
(Continued on following page)

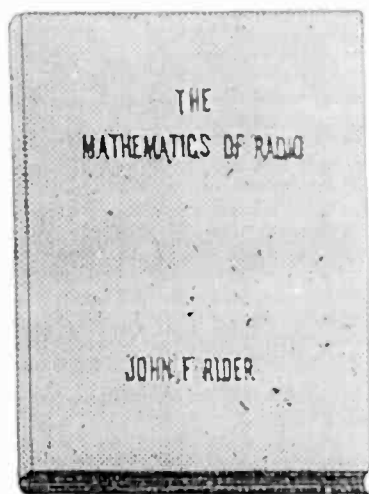


Figure 1. The cover of Rider's book "The Mathematics of Radio" also known as "The Service Man's Manual, Volume I."

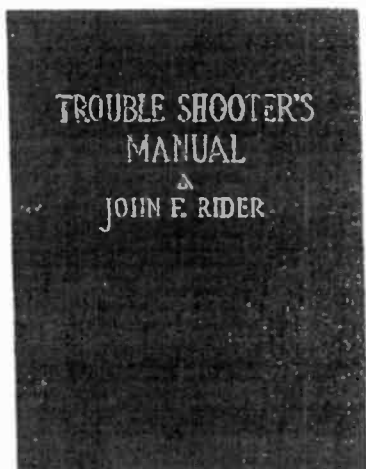


Figure 2. The binder face of the "Trouble Shooter's Manual." The binder does not carry a date or volume number.

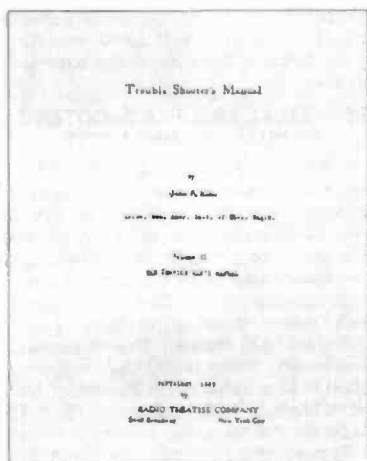


Figure 3. The title page of the "Trouble Shooter's Manual" identifies the manual as "Volume II The Service Man's Manual." The copyright date is 1929 and the publisher is the Radio Treatise Company.

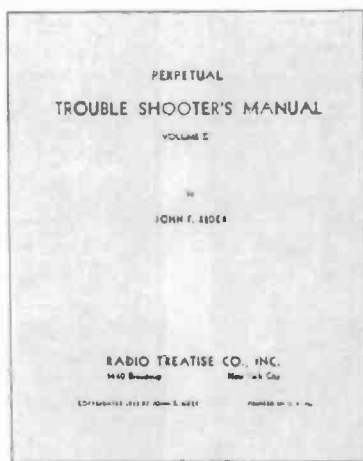


Figure 4. The title page of the "Perpetual Trouble Shooter's Manual, Volume II." Again the publisher is the Radio Treatise Company. The copyright date is 1932.

(The Four Versions of Rider's, continued)

to "trouble shoot"; i.e., how to analyze various circuit malfunctions. The remaining 101 pages give 188 commercial radio schematics provided to Rider by 31 different manufacturers. Evidence of the censorship placed on the circuits by those manufacturers is seen all through the circuit section of this volume. Of the 188 circuits, only 70 have all components and tubes marked with their values or types.

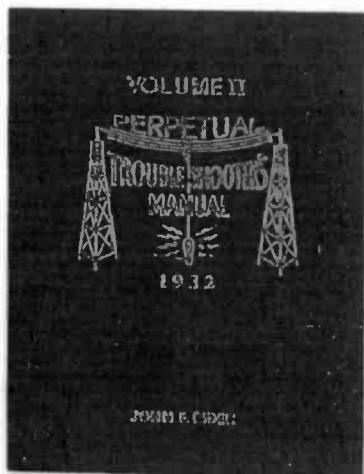


Figure 5. The cover of this "Perpetual Trouble Shooter's Manual" displays the date "1932."



Figure 6. The spines of Volume II, 1st Edition, on the right and the same volume dated "1932" on the left.

Many circuits appear to be fully annotated, but a closer look shows only cryptic manufacturer's part numbers or function names; e.g., grid leak, filter by-pass, volume control, etc. Many parts have no markings at all. The Freed-Eisemann Company left no room for doubt — "A Strict Observance of the Confidential Character of this Drawing is Required" streams across the top of each of the company's drawings.

Rider's preface to this volume tells more: "Permission to publish the enclosed wiring diagrams was secured from the various manufacturers with the understanding that they would not be reproduced in magazines and newspapers without special permission, and we trust that the readers of this book will cooperate with the author in this respect."

And not all of these circuits were current! Of the 165 indexed circuit diagrams, the only 1929 models were a Majestic 180, Philco Models 82 and 86, and a Federal K. Sixty-three were 1928 models, and all the rest were at least two years old. As pointed out by Ed Lyon in his article "Rider Volume Zero" in the July 1998 issue of *Radio Age*, there are only radios with triodes (and diodes) in this manual with the exception of a Type 222 tube in the 1928 Freshman Model Q15 and a Type 24 tetrode in the Federal Model K. This manual, almost useless for schematics, and replaced by Rider's later manuals, is of interest for these reasons:

1. It was the first *Trouble Shooter's Manual* issued by Rider;
2. It was published almost two years before any other manuals, including Gernsback's *Official Serviceman's* manuals;
3. It reveals the severe opposition Rider faced in trying to bring commercial radio schematics to servicemen.

Whatever the 1929 Volume II lacked, radio servicemen must have been hungry for any sort of manufacturer's information. Within six months, when Rider offered his *Supplementary Diagrams of 1929-1930 Receivers* that contained 115 additional schematics, he apparently experienced ready sales.

PERPETUAL TROUBLE SHOOTER'S MANUAL, VOLUME I, 1931

As editor of *Radio Craft* magazine, Rider was apparently accumulating new circuit diagrams at an increasing rate. By early 1931, he combined all of the diagrams from his 1929 *Trouble Shooter's Manual* (except one Thermodyne diagram) and the accumulated new diagrams. To this set of diagrams, he added a 100-page section titled "Modern Trouble Shooting" (which mimicked the first part of his 1929 manual). This combination of trouble-shooting theory and circuit diagrams was published in May 1931 as his *Perpetual Trouble Shooter's Manual, Volume I*, dated 1931. Rider left *Radio Craft* in the same month. The story of this 1931 manual is covered in detail in the June 1998 issue of *A.R.C.*

The period from May 1931 to early 1932 must have been a difficult time for Rider. He had sold his "1931" manuals with a promise of updates, and he sent out many free supplements to manual owners. The flood of manufacturers' diagrams demand-

ed that he send out the older diagrams to holders of the "1931" manuals and collate the more recent diagrams into a format for the next manual.

PERPETUAL TROUBLE SHOOTER'S MANUAL, VOLUME I, 2ND EDITION

By November 1931, Rider must have just about reached the 1,300-page limitation of the Swivelok binder used for the "1931" manual. So, in an incisive move, he revised the "1931" manual and reissued it as Volume I, thus cutting off all further updates.

Rider didn't change the basic organization of the book in his rewrite: it had the same serial Arabic pagination with inserts carrying alphabetic addends, the same "Modern Radio Servicing" article in the front, and the same sections on "Amplifiers," "Power Supplies," "Midgits," etc. in the back. But its redefinition allowed Rider to divert later 1931 schematics to the next issue — Volume II.

PERPETUAL TROUBLE SHOOTER'S MANUAL, VOLUME II, 1ST EDITION

Rider published this manual in June 1932 using the Radio Treatise Company name. The title page of this edition is reproduced here as Figure 4 and the spine of the binder is shown in Figure 5 right. Although this manual is the second Rider publication to be designated "Volume II," it is actually the first edition of a Volume II in the *Perpetual Trouble Shooter's Manual* series.

This 1st edition of Volume II contains all new schematic diagrams. There are no duplications from Volume I. Information about point-to-point resistance measurements is included and consists of 10 pages of text and 50 pages of point-to-point resistance charts from four major manufacturers. The 98-page "Modern Radio Servicing" that appeared in Volume I was not included this time. In his preface, Rider describes the content of this manual as follows:

"Let it be known that Volume II does not supersede the first volume. It contains entirely new material. Volume I covered the period from 1919 to about October 1931; Volume II covers the period from October 1931 to the end of May 1932."

In this Volume II, Rider had, at last, binder space to burn! He put in all the things he had so painfully left out of Volume I, such as voltage tables, chassis views, parts lists, resistance tables and alignment data. He even added some parts lists and other data for some of the circuits in Volume I. The binder was hardly full.

In what seems, in retrospect, like a real "dumb bunny" scheme, Rider continued numbering the pages as an extension of the sequential numeric/alpha numbering scheme used in Volume I. This scheme assigned a range of Arabic page numbers to a manufacturer and used alphabetic (A, B, C, etc.) and alpha-numerics (A-1, A-2, A-3, etc.) when the available "pure" Arabic numbers were used up.

I do know that this scheme led to some horrendous page numbers and illogical progression of numbers. Some examples from Volume I may help you understand this numbering system. The pages in Volume I are generally arranged in alphabetical order by the manufacturer's name, and the pages are then numbered sequentially. A-C Dayton schematics appear first and are numbered 1 through 7. An Acme Apparatus schematic follows the A-C Dayton pages, and its page number is 8. Acme Electric schematics appear on page 9 and so on.

When a page was added to A-C Dayton it was numbered 2-A. The first Atwater Kent page number is 91 and the highest page number is 114. Because page number 115 is used for the Audio-la Radio Company, added Atwater Kent pages had to be identified as 114-A, 114-B, etc.

Page numbering in the 1st Edition of Volume II was even more cumbersome with page numbers like 114-ZP-1. What a mess! Examples of these and the later Folio numbering scheme can be seen in Table II.

PERPETUAL TROUBLE SHOOTER'S MANUAL, VOLUME II, 1ST EDITION "1932"

Around this time, Rider must have issued the same manual in the same Swivelok binder, except that it was imprinted with the date "1932" on
(Continued on following page)

Table II — Rider Page Numbering Schemes

Manufacturer-Model	Numeric/Alpha	Sequential	Folio
Brunswick 42 AC DC	186-B-1	485	Brunswick 2-13
Brunswick 10	186-C	493	Brunswick 2-1
Grigsby-Grunow 25-B	386-Q-1	1182	Majestic 2-10
Grigsby-Grunow 35	386-Q-3	1184	Majestic 2-12
Ozarka Viking 5-A	458-B-1	1575	Ozarka 2-1
Ozarka S-5	458-B-2	1575	Ozarka 2-1
Philco 112	466-J	1704	Philco 2-38
Philco 490	466-D-8	1715	Philco 2-43
RCA SWA-2	504-J-17	1951	RCA 2-97
RCA R-5-X	504-B-1	1763	RCA 2-4
RCA R-11 AC	504-G	1782	RCA 2-18
Sparks Withington 16	568-X-4	2219	Sparton 2-11
Sparks Withington 25	568-Z-1	2226	Sparton 2-14

Note: Numeric/Alpha = sequential numbers with added pages identified by a letter, or a combination of a letter and a number; Sequential = sequential page numbers; Folio = Manufacturer name - Volume No. - Page No.

(The Four Versions of Rider's, continued)

both the front and spine of the binder. Let us call this volume the third version of Rider's Volume II. The front cover of this manual is shown in Figure 5 and the spine appears at the left in Figure 6. I was unaware of this version until informed by John Bayusik, but I have since heard of one offered on the Internet.

The "1931" date on his first *Perpetual Trouble Shooter's Manual* had proved to be so restrictive that it seems unthinkable that Rider would have deliberately put "1932" on his next manual, thereby limiting it to circuits from that year only.

For any other author or publication, the simple addition of a date on the cover might be too insignificant to mention. In the case of the Rider manuals, any date has to be either a holdover from Rider's earlier publications or of some significance to Rider. Or it might have been a mistake.

The "1932" binder is the same style as the 2½-inch Swivelok with expandable posts used with the undated 1st Edition of Volume II. So, Rider must have ordered it from the same supplier, but probably not at the same time that he ordered the 3-inch Swivelok binders for the "1931" Volume I.

I would guess that Rider had ordered small quantities of binders ahead of time, and these had been delivered before he had decided to reissue the "1931" volume as Volume I. In that case, he could have found himself in possession of "1932" binders. He would not have wanted to throw them away. Maybe he had them over-embossed with "Volume II" and used them. So to me, the "1932" volume is somewhat of a mystery.

THE COMPLETE PERPETUAL TROUBLE SHOOTER'S MANUAL

This manual, published in 1933, was available in two versions. Both versions are credited to John F. Rider, but one binder bears the name and logo of RCA Radiotron, while the other carries the name and logo of E.T. Cunningham, Inc. Both binders note the companies' locations in Harrison, New Jersey. Until late 1935, RCA produced tubes and labeled them "Cunningham" for sale by the Cunningham Company.

The schematics in this "Complete" manual are arranged in alphabetical order by manufacturer, but the pages are numbered sequentially without the need for alpha-numerics — a vast improvement over the cumbersome numbering system used in Rider's earlier volumes.

PERPETUAL TROUBLE SHOOTER'S MANUAL, VOLUME III

For Volume III, Rider appeared to be consciously upgrading the manual's image. He changed to the 4-post Slide-Lock binder and changed its color from conservative black to deep blue. The schematics were printed from engravings for improved legibility.

Most important of all, Volume III was the first manual to be organized and printed in the "manufacturers folio" format — which proved to be a winner. The folio format treats the pages from each manufacturer as a separate group, with each page identified by the company or brand name, e.g. "Philco" for all Philadelphia Storage Battery Com-

pany products. Other examples appear in Table II. Within each group, or folio, the page numbers begin with the volume number in Arabic numerals, followed by a dash and then the sequential Arabic page number. Inserts use the appropriate page number and an addend such as A, B, C, etc.

PERPETUAL TROUBLE SHOOTER'S MANUAL, VOLUME II, 2ND EDITION

The fourth version of a Rider publication identified as "Volume II" is his *Perpetual Trouble Shooter's Manual, Volume II, 2nd Edition*. Copying the new features of Volume III, which had just been released, this 2nd Edition of Volume II used the 4-post Slide-Lock blue binder. The cover and spine of the binder feature the familiar antenna towers and tube design.

The really significant improvement was the change to the folio format that had been introduced in Volume III. Following the folio format, Rider took all voltage tables from the front and distributed them to their related pages throughout the revised manual. Unfortunately, he chose to delete tube layout views to make space for some of these voltage tables. Also, the tube tables were typed on the schematics and were done crudely. Not neat!

The special sections such as "Amplifiers" and "Power Supplies" were all integrated into the appropriate manufacturer's folio. The Canadian listings were dropped and only U.S. manufacturers were included. The total page count was about 960 of which 757 were schematic diagrams.

EPILOGUE

Rider went on to rewrite Volume I for a third time to get it into the same uniform folio format used in the Volume III and the 2nd Edition of Volume II. The folio format set the standard for Rider's manuals for the next twenty years. The manuals are so deceptively easy to access that one can't help wondering why Rider didn't figure out the folio pagination in the very beginning so he wouldn't have so many versions of his early manuals.

Starting his manuals business was apparently a matter of persistence, hard work and the pursuit of an ideal. Without Rider's determination, we would never have seen some of the radio schematics which he elicited from reluctant manufacturers.

References:

Lyon, Ed. "Rider Volume Zero," *Radio Age*, July 1998.
Radio-Craft, May 1930; May 1931.
Radio World, January, 1930.

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(Charles Kirsten, *Radio Relics*, 15556 Sandra Lane, Sylmar, CA 91342)

Charles Kirsten is a spacecraft electronics engineer retired from the Jet Propulsion Lab in Pasadena, California. He has been repairing radios since age 12. He takes great pleasure in the beautiful jeweled meter movements and expressive speakers that give evidence of the electrical currents we can't see but try to control.

WITH THE COLLECTORS

A Ship Antenna

BY DAVE GONSHOR

One article frequently leads to another. Unlike the subjects of Dave Crocker's ship speakers, Dave Gonshor's ship is more than likely an antenna. Infinite variety is a hallmark of our hobby. (Editor)

In harmony with the ship speakers in Dave Crocker's article in the October 1999 issue of A.R.C., a similar ship is shown in Figure 1. This ship is not a speaker, however, but is believed to be an antenna. Similar to the miniature ship model speakers illustrated in Dave's article, this ship is the same style as the mighty galleons that sailed the seas and discovered America in 1492. I do not know the name of the ship.

CONSTRUCTION

The construction of the ship is excellent. The hull is made of wood and the sails of a light canvas. The rigging is made of heavy cord, and the ship details are hand-painted. The flags are metal. Construction is done via wood screws or small nails.

The ship measures 22" high x 25" long x 9.5" wide, so it is approximately the same dimensions of the ship speakers sold by Miniature Ship Models. There are no markings identifying the maker, builder, or kit supplier (if, indeed, it is a kit).

THE ANTENNA

Figure 1 also shows the ship's antenna. Approximately 20 feet of No. 18-gauge wire, consisting of ten turns of wire, is strung inside the hull. The wire is stranded copper. The coil of wire has one end protruding from the stern of the ship. Figure 2 shows a detail of the wire wound within the length of the hull (see arrows). The wire was obviously placed there during construction.

It is not clear how effective this ship is as an antenna. A good shortwave or broadcast antenna should be straight and long (tens of feet). A coil of wire would have been appropriate for a superhet of the early-to-mid 1920s, but the wire in this ship has only one connection, so it was not used as a loop antenna.

If this ship was intended to operate as a radio antenna, then what else might be found out there? We already know the Majestic Melody Cruiser radio and the ship speakers. Perhaps a ship



Figure 1. The wooden ship model that in reality is a radio antenna.

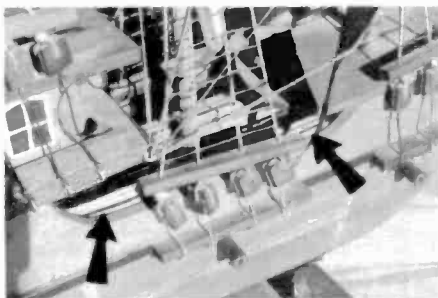


Figure 2. A close-up view of the ship model with arrows showing the antenna wire strung inside the hollow hull.

battery or a ship amplifier? Yet another reason to hit the antique shops and see what turns up.

(Dave Gonshor, 7121 S. Jellison St., Littleton, CO 80128)

Dave Gonshor, a registered professional electrical engineer, has been collecting radios for about five years. He enjoys battery sets, 1930s tombstones, cathedrals and consoles because of the more interesting electrical restoration they require.



VINTAGE VACUUM TUBES

Apex Audiotron Tubes

A.R.C. STAFF AND GEORGE A. FATHAUER

Your editor's collection is sometimes a source of inspiration for an A.R.C. article or cover. This time, the 4-page, 3 1/2" x 6" brochure on Apex Audiotron tubes leaped out at us for a February theme. Enclosed in a heart on the brochure cover is the ubiquitous 201-A tube, which, in 1924, the Radio Tube Corporation of Newark, New Jersey, claimed to be "The Heart of Your Radio Set." The heart is clearly visible on the Type 199A tube shown here. Below is a reprint of the brochure's list of "facts" about tubes. The page also states that "Apex Audiotron" is the company's trade name and that it means "sound perfection."

The use of the name "Apex" brings up the question of a connection to the Apex Electric Company in Chicago in the 1920s. Since there is no mention of a connection to this New Jersey firm in Alan Douglas' *Radio Manufacturers of the 1920's*, we assume that the Radio Tube Corp. was a totally separate entity.

In his *Saga of the Vacuum Tube*, Gerald Tyne mentions that the Radio Tube Corporation also made Cleartron and Dillon tubes.

As George Fathauer's book *Radio Tubes and Boxes of the 1920's*, reviewed on the opposite page, shows,

(Continued on following page)



Is There a Difference in Radio Tubes?

Here are several facts about tubes you should know.

1. **DISTANCE.** The ardent "radio bug" today is the "D. X. Fan"—the long distance enthusiast. He builds set after set in the hopes of hearing across the continent, or, better still, some far off foreign station. How hopeless it all seems when he has spent considerable money and long hours with different hook-ups and then finds the trouble is in the tubes. The tube is the "Heart of Your Radio Set," and when it ceases to operate, it takes the "heart" out of the enthusiast. APEX AUDIOTRONS have long been acknowledged and praised by the DX Fans.

During the recent tests between Europe and America "2 LO, LONDON, ENGLAND," was heard through the LOUD SPEAKER with APEX AUDIOTRONS: we have on file many confirmatory letters from set owners stating they clearly heard this broadcasting, with our Special Amplifying Tube.

2. **TONE QUALITY.** Tone quality is considered of primary importance in selection of radio tubes; it is so considered by the engineers of the Radio Tube Corporation. It was only after long periods of research and study of the utility of radio tubes that the APEX AUDIOTRONS were placed upon the market and introduced to the Radio World.

We adopted, therefore, our trade name APEX AUDIOTRON, which means SOUND PERFECTION.

3. **CRYSTAL CLEARNESS.** Often, no matter how costly a set may be, it will refuse to work well. It hisses, crackles, howls, groans—and then the fun commences. The Radio Fan changes "B" batteries and "A" batteries, the antenna is turned around, a new loud speaker or a new pair of phones is purchased, until finally he gives up in despair and concludes: "Well, I must be in a bad location." If it were realized that fifty per cent of the difficulties lay within the tubes, and all that is needed is the replacement of the weak tubes, the operator would smile at his troubles and expenses.

4. **VOLUME.** A radio tube may have a clear tone and yet lack volume. It has been repeatedly remarked by purchasers of APEX AUDIOTRONS that the results from the installation of AUDIOTRONS paralleled another step of amplification.

5. **ECONOMICAL UPKEEP.** The first question asked of a battery man is: "How long will this battery last?" He answers by asking in return: "What kind of tubes have you?" Some tubes draw more amperage from your battery than others, thereby lessening their life. APEX AUDIOTRON, type 199, consume only .06 amperes per hour.

6. **GUARANTEE.** Every APEX AUDIOTRON is guaranteed to deliver all the above qualities.

They are guaranteed further to act as detectors, to oscillate, and to function as both audio and radio frequency amplifiers. APEX AUDIOTRONS give perfect service. Our rigid inspection of each tube permits us to offer this guarantee.

7. **A GOOD TUBE AT A REASONABLE PRICE.**



Radio Tubes and Boxes of the 1920's By George A. Fathauer

REVIEWED BY DICK BERGERON

Numerous tube manuals and books have been published over the years. The most notable were the "Spec and Data Sheets" released by tube manufacturers at regular intervals as new tubes were released. As time marched on and the interest and use of the electron tube waned due to technological advances, publications on tubes also dwindled in number. The contents of tube books still being published became more selective, shifting from technical data to a more general chronological and historical roadmap of the evolution of tubes from the early 1920s into the 1970s and 1980s.

This selective process continues with the release of *Radio Tubes and Boxes of the 1920's* by George A. Fathauer. As the title suggests,

the book pictorially displays the tubes used in early broadcast receivers of the 1920s. As an additional bonus, pictures of the unique tube boxes that these tubes were sold in are also portrayed. A historic overview to the period is contained in the introduction, while an updated list of 201-A brand names and a selected bibliography are also included.

Thumbing through the pages of this book, one can't help but notice the hundreds of different companies that released or produced the 01-A tube. As the author

(Apex Tubes, continued)

packaging was even more important to sales in the 1920s than it is today. Apex tubes and boxes are illustrated on pages 9 and 11 of Fathauer's book. On page 10, a full-page Apex Audiotron ad says that these tubes are much in demand, and are offered with a full guarantee for the first time. Four tubes are listed, each for \$4: Types 201A, 199, 12, and 200.

According to George Fathauer and to our own research, little is known about the Radio Tube Corporation and its Apex Audiotron tube. Perhaps someone out there has more to add to this story.

(A.R.C., P.O. Box 2, Carlisle, MA 01741; George A. Fathauer, 116 N. Roosevelt, Suite 121, Chandler, AZ 85226)



mentions in his introduction, RCA owned the patent rights to this tube. Some companies selling the tube were "legal," while others were not.

When the going was good, the companies trying to peddle this tube had to implement a few of the key marketing techniques known to be effective in selling a product successfully. Those tricks of the trade were 1) price — sell it cheaper than the other guy — or 2) unique packaging — the tube box filled this bill.

Packaging truly was dominant. The names of companies like Apex, ACE, Advance, Blue Ribbon, and Champion on boxes suggested that the product was the best of breed. Or how about Boone, Crusader, and Pioneer as indicators of

leaders in the industry? A box labeled Perfectone, Tru Tone, Music Master, Kleer-Tone, Fultone, or Grandtone needed no further explanation about its contents. At the bottom end of the spectrum, company names like PAR, OK, and Quality might suggest cheaper, run-of-the-mill products.

All in all, the color photos of the tube boxes are particularly interesting. In their imaginative methodology of packaging, these companies related their names to the quality of their products. If you are collecting old tubes in boxes, this book is a "must have."

Radio Tubes and Boxes of the 1920's by George A. Fathauer has 105 pages with over 400 color photos and illustrations. It is published by Sonoran Publishing in an 8 1/2" x 11" paperback format and is available from *Antique Radio Classified* and other booksellers for \$26.95. Be sure to check for shipping information.

(Dick Bergeron, Box 8311, Essex, VT 05451)

Dick Bergeron is the proprietor of Electron Tube Enterprises, which can be reached at the above address or by telephone at (802) 879-1844 or fax at (802) 879-7764. His latest catalog lists over 2000 types of radio, TV, transmitting, military, communications, industrial, etc. tubes in stock. All tubes are new-old-stock. Since new tubes are being added to stock continually, collectors should inquire when the tube they are looking for is not listed.



PHOTO REVIEW

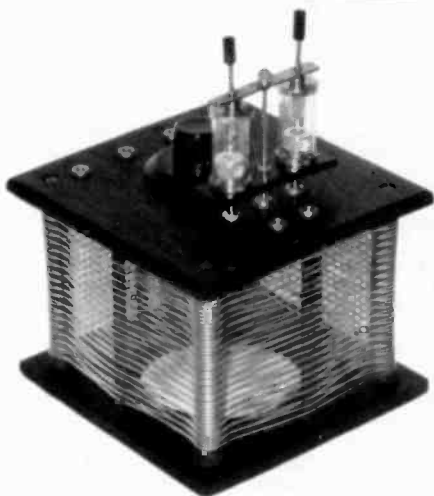


This column presents in pictorial form many of the more unusual radios, speakers, tubes, advertising, and other old radio-related items from our readers' collections. The photos are meant to help increase awareness of what's available in the radio collecting hobby. Send in any size photos from your collection. 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.



RADIALAMP HORN SPEAKER –

This decorative library table lamp has a horn speaker inside the tapered, cast-bronze stem and a driver at the bottom of the base. It was manufactured by the Radialamp Co., 5th Ave., New York City. The idea was that the sound was enhanced by the warm air surrounding the bulbs at the metal tone deflector inside the 15" diameter shade. It has 2 frosted, antique, 15-watt bulbs and measures 18" tall. (*Dave Crocker – Mashpee, MA*)

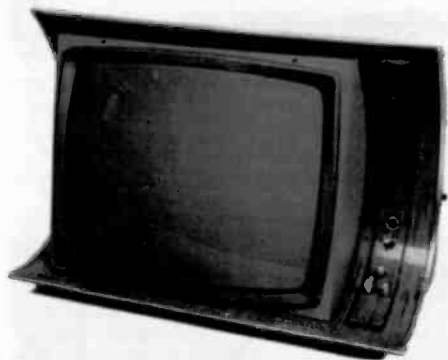


BALTIC CRYSTAL SET – This Swedish crystal set has a unique, plug-in, double detector with a 3-pin connector. The set, made in 1925, tunes with a variable plate tuning condenser. The Baltic receiver is quite rare, as I have never seen another exactly like it. (*Erwin Macho – Vienna, Austria*)



R.I. TYPE V3A – This 3-tube (valve) receiver was manufactured by Radio Instruments, Ltd. of London. Slots in the lid cover allow the binding post wires to stay attached with the cover closed. (*Jim Taylor – Bournemouth, England*)

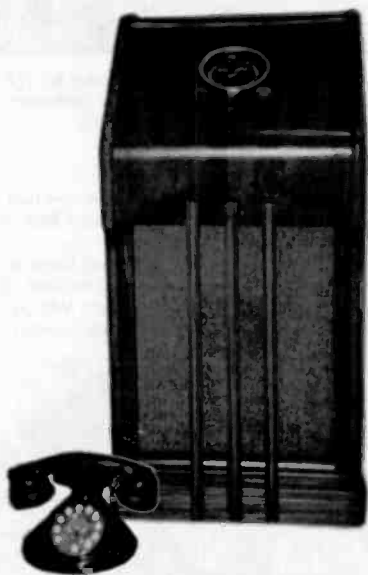
PHOTO REVIEW



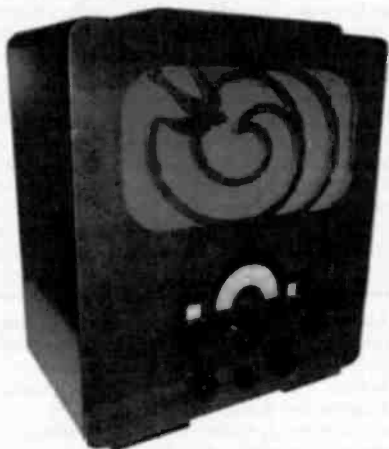
PHILCO MODEL B-127 – This unique television set, produced from 1969 to 1971, was manufactured by Philco of Brazil. It has a 23-inch black and white picture tube and a cabinet with a strange shape. (*Alceu Massini – Sao Paulo, Brazil*)



MICROPHONE RADIO – This 5-tube microphone-style set has the speaker mounted in its base. Most of these radios operated on a fixed frequency, which was the same frequency of the call letters shown on the top of the radio. This set, however, has a normal tuning condenser, with the knob on the back of the square cube. When this radio was found in 1988, KDEF was located in Albuquerque, New Mexico, but at the 1150 frequency. The station owner at that time stated that no one at the station remembered being at the 1280 frequency shown on the radio. The FCC advises that the KDEF call letters are not currently assigned. (*Victor Marett – Miami, FL*)



SMALL CONSOLE, MANUFACTURER UNKNOWN – This floor model radio is only 27" high, but it looks huge next to the telephone shown beside it for scale. I don't know the manufacturer, but I'm sure it is not a Philco. The dial scale has "Baby Grand" imprinted on the face. Can anyone out there identify this radio? (*H.B. McMahan – Tyler, TX*)



ECHO MODEL 348 – This wooden table radio was built in France by GMR in 1933. Behind the nice cutout of a bird are two speakers. The set uses 8 tubes with (2) Type 47s in push-pull. (*Rian van der Weiden – Revere, MA*)

MEET & AUCTION REPORT

VRPS-AWA Convention & Auction Irving, Texas — October 29-31, 1999

REPORTED BY GEORGE AND MICHAEL POTTER

The Vintage Radio & Phonograph Society (VRPS) held its 24th annual convention October 29-31, 1999, at the Holiday Inn Select, DFWSouth, Irving, Texas. Of the 360 total attendees, 228 were member registrations. Each registered person received an embroidered cotton cap commemorating our 25th year. VRPS celebrated this 25th anniversary with two large sheet cakes, each emblazoned with the club's logo in color. Both an RCA Radiola 18 with speaker and an early Columbia phonograph were given away as preregistration prizes.

Two technical sessions were scheduled. George Potter presented the first on the history of the Watterson Radio Manufacturing Co. of Dallas, Texas. The second session, presented by Robert Olinger, was on antique radio and television collecting and the Internet.

Quite often a VRPS family member or spouse will be active either in bidding or in attending a technical session. This was most evident in the packed to capacity auction rooms. Four auctions were scheduled: a tube and paper auction, the Friday night auction, the Saturday silent auction and the main Saturday auction. Each of the auctions was completed on time, with all guaranteed items brought up for auction, as well as approximately 98 percent of the nonguaranteed items.

Here are the results: total items sold — 841; total passed items — 91; total dollar amount — \$55,351.50! After the auctions, checkout was about as fast as possible with 80-plus buyers waiting. We utilized two laptop computers with a custom program and a high-speed laser printer. Our treasurer used two people to receive and disburse money and two people to handle any



Michael Sherman, the official auctioneer for VRPS, was assisted by Jim Sargent. Both individuals did a great job in moving the items along.

corrections or problems. In addition, we had 12 people to escort buyers and to help find their purchased or passed items.

During the auction VRPS used two large video displays for the audience and one smaller CRT for the auction and set-handler staff. We do not move large bulky consoles anymore; instead, we



This 1934 Model 411 Emerson Mickey Mouse radio with non-original top sold for \$700.

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.



Ray Richardson won 1st place with his Model A Standard Talking Machine.

utilize remote cameras to view the large quantity of radio consoles, phonographs and boxes of tubes. A large wall partition separates the audience from the equipment, thus allowing full concentration on the items up for sale. Verification of equipment condition comes from two people independent of computers and experienced in a good cross-section of equipment from early sets to late transistors. Phonographs, books and tubes are included.

VRPS had 78 entries in the old equipment contest with 60-plus awards given. The "Best of Show" and the "President's Award" went to Blake Dietze for his outstanding display of Zenith Royal 500 transistor radios in a nice shadow box display.

The final event on Saturday was the annual Awards Banquet. The room was filled to capacity, with no additional tickets available. The Houston Vintage Radio Association (HVRA), which had just celebrated its 20th anniversary this year, honored VRPS for its 25 years as a club. Chevie Crandell, VRPS past President, was honored for his 15 years service, as was E.G. Crandell, Chevie's wife. We also recognized four charter members of VRPS.

We were pleased to have fellow Texan and A.R.C. publisher John Terrey as our 25th Anniversary guest speaker. John discussed in detail A.R.C.'s current activity on the updated Web site and what the future holds for the hobby.

Fortunately, a time change occurred and we all had an extra hour of sleep, before the indoor flea market started at 7 A.M. on Sunday. The buying, selling and trading was fast and furious, and the last person out at 11 A.M., turned off the lights.

Highlights of the four auctions included an early Mickey Mouse radio selling at \$700; an Atwater Kent Model 206 cathedral radio at a whopping \$475; an Edison Gem phonograph with original horn and extra cylinders at \$500; a Mu-Rad Triplex at \$150; an RCA Radiola 140 Gothic-style tombstone in excellent condition at \$425; and an RCA Victor R-13 tombstone at \$410.

An RCA Radiola 32 superhet console sold for \$475; a Scott All-Wave console for \$475; a Hopalong Cassidy Arvin for \$275; and a Western

Electric 205E tennis-ball tube for \$95. Three notable passes included a Grebe CR-9 (\$500 min.); an RCA Victor 74B microphone (\$600 min.); and a Philco 19 restored cathedral (\$165 min.).

The following list of items is a combination of all separate auctions. Accuracy of identification and condition is not guaranteed. An asterisk (*) indicates that the set is a "gold star" guaranteed by its owner to work perfectly and to have been restored. It also could be returned if the buyer was not satisfied.

e=excellent, vg=very good, g=good, p=poor, f=fair, *= "gold star" guarantee, N.O.S.=new Old Stock, wk=working, nwk=not working, WT=with tubes, NT=no tubes, BB=brass-based, TT=tipped top

Admiral 69C108, g	\$24
Air Castle 540, Bakelite, g	45
Air King 810, clean, wk, vg	80
Air King A425, *	30
Airline 15GCB, vg	40
Airline 17A80 console, g	20
Airline 62-352, vg	90
Airline 62-368 Tele-dial, vg, *	100
Airline 62-425, g	35
Airline 64WR-1512A, white, f	15
Airline 93W6-601, Deco, Bakelite, g	50
Airline 94BR1535A, g	20
Airline 305 farm set, g	30
Airline 1219-B, 8-transistor radio, g	10
Airline GZ455, wk well, g	120
Airline WD1635, *	25
Airline WG24 tombstone/cathedral, wk, vg ..	140
Amplicall Intercom Master	24
Arborphone, w/speaker	160
A.R.C. 1985, 1989	25
Arvin 61R58, wk, vg	20
Arvin 62R49 Sportsman portable, g	15
Arvin 71-A, white, g	65
Arvin 451-TL, g	20
Arvin 502, white, metal, g	55

(Continued on following page)



Entered in the contest in the category of "Pre-1950 Tube Testers" was this fine display of equipment as well as some original dealer signage.

Arvin 760T, white, g	15
Arvin 45280-1	15
Arvin Hopalong Cassidy, vg, *	275
Arvin transistor radio, ca. 1962	25
Astatic D-104 Silver Eagle microphone, e.....	70
Astatic microphone, w/stand, (2)	20
Atwater Kent 30, NT, p	45
Atwater Kent 33, in Pooley cabinet, vg	150
Atwater Kent 36, NT, f	40
Atwater Kent 37, metal box, WT, f	60
Atwater Kent 40, metal box, f-g	50
Atwater Kent 40, metal box, WT	45
Atwater Kent 40, metal box, WT, g, (2) ...	55, 70
Atwater Kent 40, WT, metal box, g	55
Atwater Kent 44 secretariat console, 1927, g ...	140
Atwater Kent 44, w/speaker, WT, g	130
Atwater Kent 47, WT, f	75
Atwater Kent 55, w/F-2 speaker, wk, vg.....	160
Atwater Kent 89 console, nice	325
Atwater Kent 145 tombstone	110
Atwater Kent 145, f, *	65
Atwater Kent 206, original, vg	475
Atwater Kent 944, restored, wk, nice	180
Atwater Kent cabinet, w/speaker, g	50
Atwater Kent E2 speaker, g	35
Atwater Kent F2 speaker, g	75
Atwater Kent L hom, complete, f-g	220
Atwater Kent M hom, repainted, vg	120
Atwater Kent M hom, vg	120
Audiotronic schoolhouse record player, vg ...	25
Automatic 613, wood, vg	60
AWA Review, 1999	40
B&K 612 tube tester	20
B&K 700 tube tester	30
B&K dual-trace oscilloscope, wk well	60
BC 221 frequency meter, w/built-in AC supply ...	12
BC 457E, WE transmitter, f	20
Beitman '52-'55, '60, g	45



Antique Radio Classified's publisher John Terrey is seen conversing with a banquet attendee just after his talk on A.R.C.'s new Web site and current activities.

Beitman '57,'59,'60,'61,'66, g	45
Belmont 585 tombstone, g	70
Belmont 636, Bakelite, g	70
Belmont 705 console, f	20
Bosch 210, original, g	65
Bosch 505, g, *	50
Bosch 5A, f	55
Bremer-Tulley Counterphase, NT, g	50
Brunswick 5NO	70
Bulova 300, green, g	20
Calrad microphone, g	30
Calrad microphone, w/stand, g	35
CBS tubes advertising clock, g	110
Clapp-Eastham, Radak R-4, f-g	120
Coronado 43-8190 Plaskon, vg	425
Coronado 806A, wood, g	35
Coronado 907, vg	70
Coring 1007, Bakelite, unusual	20
Craftsman 800 tuner, nwk	45
Crosley 5M3 tombstone, p	45
Crosley 5M4 tombstone, vg	120
Crosley 6H2 tombstone, g	70
Crosley 9-212M console, w/phono, f	25
Crosley 10-135 dashboard, vg	150
Crosley 10-136E, 1950, g	80
Crosley 10-137, dashboard, g	65
Crosley 10-140 dashboard, green, vg	120
Crosley 11-101U Colorado bullsseye	240
Crosley 11-105U Colorado, orange, vg	110
Crosley 11-19U, light blue	140
Crosley 12H console, g	140
Crosley 50, p	130
Crosley 51, WT, f-g	70
Crosley 52, WT, duds	90
Crosley 56TD, maroon, vg	80
Crosley 56TN, wk, vg, *	45
Crosley 56TU, white, vg	50
Crosley 124 cathedral, g	85
Crosley 125 cathedral, vg	100



This Scott AllWave receiver in a beautiful console cabinet brought a high bid of \$475.



This beautiful 6' x 4' oil on canvas painting with a phonograph theme sold for just \$350. Its interesting to note that this painting is quite similar to the one the Italian artist Pompeo Massani did for the Edison Co. for one of its early ads. This can be seen on page 151 in "The Talking Machine, an Illustrated Compendium" by Fabrizio & Paul.

Crosley 127 10-tube tombstone, g	110
Crosley 157 cathedral, g, (2) *	180, 190
Crosley 516 tombstone, f	70
Crosley 715, tombstone, wk, g	160
Crosley 9120N, red, f-g	50
Crosley Coloradio, bullseye, white g	90
Crosley Coloradio, bullseye, e	80
Crosley D-10-CE, vg	100
Crosley D-25-WE dashboard, wk, vg	200
Crosley D-25-CE, g	140
Crosley Dynacone F, bad cone, good driver, p	15
Crosley E-15-CF, 1953, lime green, vg	60
Crosley Fiver Jr, vg, *	75
Crosley Gembox, metal box	45
Crosley metal sign, e	130
Crosley/DeForest 3R3, Canadian, vg	75
Delco 1109 console, g, *	95
Delco R1234, AC, white	36
Deluxe 1731, chrome front, g	55
Dynaco 343X amplifier, g	50
Edison cylinder records, (7) 2-min, (13) 4-min, f	110



In the contest was this beautiful 1935 Emerson Model 42 in an Inghram cabinet.

Edison cylinder records, 2-min, clean, (6)	45
Edison Gem A, orig. horn, w/cylinders, vg ...	500
Edison phono oil painting, e	350
E.H. Scott Allwave 15, in beautiful cabinet ...	475
E.H. Scott Allwave Imperial, w/phono, vg	425
Eico HF50 amplifier, g	40
Electro-Voice 631 microphone, no stand	110
Electro-Voice 664 microphone, w/stand, vg ...	60
Emerson 34C tombstone, vg	80
Emerson 117 butterfly radio, g	110
Emerson 149 farm set, toaster style, g	45
Emerson 511, gold front, g	35
Emerson 539, f, *	20
Emerson 541, g, *	20
Emerson 610A, maroon, g	45
Emerson 646, maroon, *	34
Emerson 646, maroon, cracks, f	10
Emerson CG318 table	100
Emerson DS436, Inghram cabinet, e	150
Emerson Kadette, f	40
Emerson Mickey Mouse radio, repro top	700
Emerson Model 522, Bakelite, vg, *	40
Esquire 19736 clock radio, f-g	20
Fada 160 chassis, nice	100



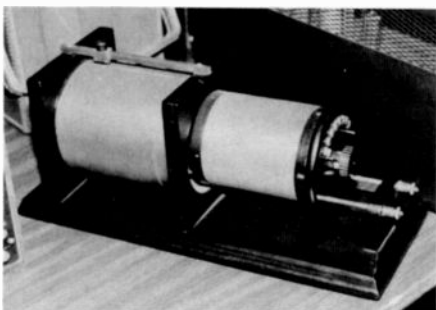
This unique Dr. Pepper radio in green color was seen on display in the contest.

Fada 175A Neutrodyne, g	45
Fada, Plaskon, white	125
Fansworth ET067, wood, vg	30
Farnsworth ET065, white Bakelite, g, (2) ...	45, 50
Farnsworth GT051	35
Federal 1030, 1946, g	35
Firestone S7403-9, vg	140
Freshman Masterpeice TRF kit parts. N.I.B. ...	100
Garod 5A1, f	40
GE 81, f	35
GE 321 table, wood, f	17
GE 600 table, maroon	30
GE A-63 tombstone, f	65
GE A-83 tombstone	10
GE dealer Clock-TV/Radio Service sign, vg ...	230
GE F96 console, f-g	45
GE GD60, g, *	100
GE H620, brown Bakelite	75
GE H634 table, 1939, g	30
GE HJ-1005 console, f	55
GE tube caddy full of TV tubes - N.O.S.	25

(Continued on following page)

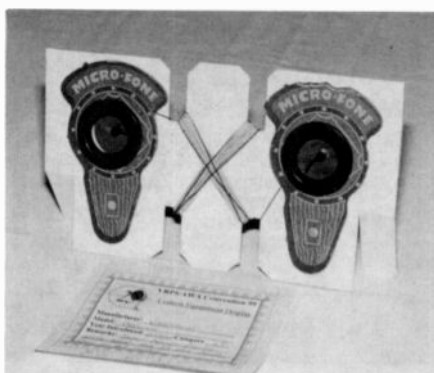
(VRPS Meet & Auction Report, continued)

GE tube caddy w/N.O.S. tubes, (2)	30, 35
GE TV, w/stand, 1956	20
GE YRB60-2 table, *	25
GEF-96 console, wk, g	130
Geiger counter	50
General Radio 512 piano radio, g	170
Githens horn driver (Truetime radio horn), vg	230
Globe Champion ham radio	25
Gloritone 27 cathedral, f	80
Goodyear 015060, g	45
Graybar 310, WT, vg	90
Grebe Synchronphase MU-3, g	140
Grundig 3010, 220v, wk, vg	120
Grunow 580 tombstone, g	75
Grunow 1191 console, vg	170
Guide To Old Radios, 1st Ed.	25
Guild 785 gramophone, wk, g	45
Hallicrafters 5R20, 1950s, f	18
Hallicrafters 51C2	20
Hallicrafters Continental, f	35
Hallicrafters HT-32 transmitter, g	60
Hallicrafters S-120	20
Hallicrafters S-40B	26
Hallicrafters S-51, hums, f-g	25
Hallicrafters SX-100, f	60
Hallicrafters SX-101, w/manual, wk, g	95
Hallicrafters SX-25, w/matching speaker, vg ...	180



This extra-nice, factory made loose coupler of unknown manufacture garnered \$200 at the auction.

Hallicrafters SX-62, recapped, g	210
Hallicrafters TW-1000, missing 1 tube	30
Hammarlund HQ-25, w/speaker, f	55
Harper, red, small, wk well.	25
Home brew crystal set, w/meter, vg	260
Home brew crystal set, w/Brandes headset, g ...	100
Heathkit TC2 tube checker	20
Heathkit Warrior kilowatt linear amplifier	50
Hewlett Packard 202C audio oscillator, g	30
H.H. Scott 121-C preamp	75
H.H. Scott 344C receiver, g	45
H.H. Scott 800B amplifier	20
Hickock 534B tube tester, e	45
Hickock 1605 multimeter, g	40
History of GE, book, e	45
HV crystal set, e	140
I-177 tube tester	35
Jackson Bell 62 swan, restored, vg	250
Kapsch Juwel UKW Austrian set, g	60
KCRS transistor advertising radio, in box	35
King battery set, WT g	75



In the contest equipment display was this toy, hand-held Micro-Fone communicator connected by string.

Kolster K110, wk, vg, *	230
L. Tatro 32-volt console, f	50
Lafayette KT200 receiver, g	70
Lafayette, AC/DC, wood, g	50
Leningrad Russian radio, vg	70
Loose coupler, factory-built	200
LR Dooley SW set	55
Magnavox GR190 chairside, p	35
Magnavox R3-D horn speaker, g	80
Magnavox T battery set, g	60
Majestic 461 tombstone, f-g	80
Majestic B eliminator, e	30
Majestic 5A410, Deco, g	50
Majestic 5LA7, e	40
Majestic 20 tombstone, 1932, g	70
Majestic 44 Duo Chief, g	110
Majestic 51, brown Bakelite, f	35
Majestic 90, NT, g	75
Majestic 90B, NT, p	55
Majestic 200 tombstone, wk, vg, *	170
Majestic M71 highboy, w/speaker, f	50
Mantola 11-701, repainted, g	20
Mantola R454 table set, wk, clean	40
Meissner 8C, FM tuner, g	20
Meissner signal shifter	16
Meissner AM/FM tuner	20
Military I77-B tube tester, g	75
Military BC348, g	20
Minerva Tropic Master, rough	40
Mitchell Lullaby, brown, f-g	45
Mitchell Lullaby, white, vg	40
Monarch 320, Bakelite, g	24
Motorola 5T tombstone, vg	160
Motorola 50XL, brown, *	22
Motorola 56R, red face	40
Motorola 56W, g	20
Motorola 63C, clock wk, radio nwk, f	17
Motorola 65L1, w/battery	20
Motorola suitcase portable, e, *	80
Mu-Rad Triplex, scarce, p-f	150
Music Master square wood speaker, vg	85
National SW-54, g	80
Northern Electric B4000, f	50
Oilers helmet radio, g	30
Peerless cathedral speaker, e	65
Peerless speaker, large, p	30



This Atwater Kent Model 206 cathedral in very good original condition brought an amazing \$475 bid in the auction.

Philco 18 console, Deco, g.....	180	Philco 89, good shape.....	90
Philco 37-50, p.....	65	Philco 517, original finish, wk, f-g.....	50
Philco 37-60 cathedral, f.....	95	Philco 625 tombstone, tube missing, g.....	60
Philco 37-610, vg, *.....	65	Philco 4095, w/converter, vg.....	65
Philco 38-34 tombstone, p.....	40	Philco F-10 speaker, f.....	60
Philco 38-7, restored, refinished, e.....	120	Philco H834-124.....	20
Philco 40-115, wood, g.....	45	Philco PT-2, g.....	25
Philco 40-130, g.....	120	Philco Safari TV, brown, f.....	75
Philco 40-150, g, *.....	90	Philco Safari TV, f.....	60
Philco 40-150, slant front, nice.....	80	Philco T9125 Trans-World, 1959, vg.....	75
Philco 40-150, vg, *.....	70	Precision 660 tube tester.....	20
Philco 40-180 console, g.....	95	<i>Radio Girls Of Roselawn.....</i>	35
Philco 40-180 console, wk, g.....	130	<i>Radio Listeners Guide, 1937, g.....</i>	10
Philco 40-90, f.....	20	<i>Radio World, 1930s, (3), g.....</i>	10
Philco 41-125, wk, g.....	45	<i>Radios Redux, Radio Golden Age, new.....</i>	10
Philco 41-290 console, f-g.....	100	Raytheon tube caddy full of tubes.....	35
Philco 42-221 farm set, g.....	25	RCA Radiola 17, WT, f.....	110
Philco 42-380, g.....	90	RCA Radiola 18 table, W100A speaker, vg.....	160
Philco 42-1201 radio/phono, f.....	80	RCA Radiola 28 stand, loop, vg.....	100
Philco 42-KR3, white, wood, vg.....	50	RCA Radiola 32 console, original, nice.....	475
Philco 46-350 portable, w/sliding front, f.....	25	RCA Radiola 33 w/stand and speaker, g.....	120
Philco 46-420, modified, f.....	32	RCA Radiola 60 table speaker, vg.....	150
Philco 48-200, Bakelite, off-white, f.....	30	RCA Radiola 60, w/manual, WT, vg.....	110
Philco 48-214, wood, vg.....	55	RCA Radiola 100 speaker, f.....	32
Philco 49-420, g.....	40	RCA Radiola 100 speaker, nwk, nice.....	70
Philco 49-901, black, g.....	60	RCA Radiola 100A speaker, f, g, (2).....	30, 35
Philco 49-901, green, g.....	40	RCA Radiola 100A speaker, wk, vg, (2).....	50, 80
Philco 49-1100 console, f.....	65	RCA Radiola 103 speaker, f-g.....	55
Philco 51-530, 1951, f.....	10	RCA Radiola 103 speaker, f.....	85
Philco 51-632, f-g.....	20	RCA Radiola 104 speaker, f-g.....	60
Philco 51-932, f-g.....	15	RCA Radiola 106 speaker, good fabric, g.....	60
Philco 52-548, Bakelite, f.....	24	RCA Radiola 140 tombstone, e.....	425
Philco 54, g.....	55	RCA Radiola AR-812 portable, NT, f.....	40
Philco 60 cathedral, clean, g.....	80	RCA Radiola AR-813 superhet, NT, g.....	110
Philco 60, wk, g.....	95	RCA Radiola III-A, nice, NT, vg.....	100
Philco 62 cathedral, vg, *.....	90	RCA Radiola UZ-1325 hom, (2), g, vg.....	100, 140
Philco 70 cathedral, original finish.....	210	RCA Radiola UZ-1325 hom, p.....	85
Philco 70 cathedral, restored, vg.....	290	RCA Victor 2XF91, g.....	30
Philco 84 cathedral, g.....	65	RCA Victor 1MBT6 portable.....	45
Philco 89 console, g.....	65	RCA Victor 3BX671 Strato-world portable, vg.....	140
		RCA Victor 6RF9, AM/FM, vg, *.....	25
		RCA Victor 8BX6 AC/DC aluminum portable, vg, *.....	40
		RCA Victor 8T02, nice.....	70
		RCA Victor 9TC275, 16" TV.....	20
		RCA Victor 9T270 console, TV, f.....	5
		RCA Victor 9X572, mustard color, g.....	25
		RCA Victor 16-5, wood, recapped, g.....	45
		RCA Victor 27K console, g.....	110
		RCA Victor 45 record player, (2).....	10, 12
		RCA Victor 45-rpm phono.....	30
		RCA Victor 45X11, 1940, g.....	24
		RCA Victor 46X23, wk, vg.....	45
		RCA Victor 54B1 portable, alligator case, g.....	55
		RCA Victor 54B1 portable, 1946, f.....	24
		RCA Victor 54B3 portable, f.....	10
		RCA Victor 65X11, Bakelite, f.....	20
		RCA Victor 75X14, 1948, g.....	10
		RCA Victor 75X15 table, woodgrain, g.....	35
		RCA Victor 86T, f.....	20
		RCA Victor 86T3 tombstone.....	45
		RCA Victor 118 tombstone.....	85
		RCA Victor 119, p-f.....	45
		RCA Victor 222 console.....	95
		RCA Victor 811K console, f-g.....	95
		RCA Victor 811K console, WT, (11), f.....	90
		RCA Victor 813 console, NT, p.....	50
		RCA Victor B-411 portable transistor radio, f.....	12

(Continued on following page)

(VAPS Meet & Auction Report, continued)

RCA Victor BT42 farm set, f	20
RCA Victor BX6 portable, f-g	24
RCA Victor lighted multimeter sign, g	65
RCA Victor R-13 tombstone, e, *	410
RCA Victor R-7 tombstone, nice	160
RCA Victor T8-14 tombstone, f	35
RCA Victor tube caddy, w/N.O.S. tubes, g, (2) ...	25, 30
RCA X551 table	10
Rider 7,8,9,10, f-g	50
Rider 18,19, g	60
Rider 20, 21, g	55
Rider 1-5 abridged, g	20
Rider 9, g	25
Rider 11, 12, 14, g	25
Rider 15, g	20
Sams Red Book	15
Schafa Chinese, painted red, e	50
Schlitz beer barrel radio, g	22
Sears 22-071 micro chip radio, g	10
Sentinal 309, stylish home brew wood cabinet, g ..	50
Sentinel 400 TV	70
Sentinel book radio	180
Silvertone 60-16, Bakelite, g	45
Silvertone 132-877, Bakelite, wk, vg	20
Silvertone 198-2A tombstone, g	60
Silvertone 1720 console, WT 45 (4), g	65
Silvertone 2016, AM, f	16
Silvertone 3141, Bakelite, f	30
Silvertone 4500, *	50
Silvertone 6050, metal grille, vg	40
Silvertone 6120, g	50
Silvertone 6200A farm set, f	20
Silvertone 132804 midget, small crack, f	24
Silvertone M8004, metal case, f	20
Silvertone Model 1, 1950, g	18
Silvertone World's Fair, 1934, vg	90
Silvertone, WT 201-A (5), wk, f	75
Skyrover 9002N, g	10
Sonochord speaker, nice!!	120
Sonora, RBU-175, white, *	32
Sony ICF-5900W shortwave, g, (2)	30, 75
Sony 8-301A transistor TV	170
Sparton 5A7, small crack	20
Sparton 538 tombstone, clean, g	120
Sparton hom, small, e	220
Stamper 170 early kit set, NT, g	50
Stewart-Warner 01-6K, wood, wk, g	20
Stewart-Warner 03-5E1, g	65
Stewart-Warner 016GZ, f	20
Stewart-Warner 525, WT, wk, *	85
Stewart-Warner Porto Baradio, no glass, f-g ..	20
Stewart-Warner, Ingraham cabinet, g, *	110
Stomberg-Carlson 370 12-tube console, f ...	120
Stomberg-Carlson 1400, g	90
Stromberg-Carlson 230H, deluxe, g	120
Stromberg-Carlson 500-H, Bakelite	40
Stromberg-Carlson 201 amp & microphone ...	25
Stromberg-Carlson 335H, g	110
Stuart-Warner B51T2 Air Pal, vg	80
Sylvania tube caddy, w/N.O.S. tubes	30
Teac reel-to-reel tape player, vg	75
Technics 8-track tape deck	20
Telefunken hi-fi stereo	25
Temple 56 drum hom speaker, f	60
Temple F616 table, g	35
The Tube, book, new	10
Tiny Mite display, cardboard, N.O.S, g	160



This 1933 Grunow Model 501 with chrome trim was in pristine condition for display in the contest.

Tom The Telephone Boy, book	30
Tower Meistersinger horn speaker, p	85
Trav-Ler 50, white, f	20
Tropicana transistor radio, wk well	10
Truetone D731, f	35
Truetone D941B, brown Bakelite, g	30
Truetone D2017 Boomerang, white, vg	85
Truetone D2611, g	45
Truetone D2815, brown, f	25
Truetone D2919, g	10
Truetone E2002, AM/FM, f	10
Truetone Plaskon, white, e, *	350
Truetone D731, vg	55
Tube(s): Audion, Shaw base, open fil	20
Tube(s): 01-A, BB, TT, rainbow, g	40
Tube(s): 01-A, (2), g	35
Tube(s): 01-A, BB/TT, (2), g	30
Tube(s): 01A, globe, (4), g	50
Tube(s): UV 01-A, BB, g	30
Tube(s): 2A3, RCA, (4), test fair	45
Tube(s): 27, globe, (5), g	25
Tube(s): 45, (2), g	50
Tube(s): 4S1000 transmitting tubes, box lot ..	60
Tube(s): 45, (3), g	40
Tube(s): 45, (3), g	45
Tube(s): 45, and 127 blue, g	15
Tube(s): 71A, globe, (2)	40
Tube(s): 80, N.O.S., (5)	40
Tube(s): 120, w/socket, g	20
Tube(s): 151, 226, 226, blue, unk	30
Tube(s): 45, (5),	70
Tube(s): UV/UX 99, (5), g	40
Tube(s): UX 199, g	25
Tube(s): Vac-O-Bulb, tipped, dud	40
Tube(s): VT-25 QTY, (3), g	35
Tube(s): VT4C, large, (2)	10
Tube(s): VT52, (2), g	65
Tube(s): WD-11, no tip, ,g	90
Tube(s): WD-11, TT, g	65
Tube(s): WE 101F, tennis ball, g	35
Tube(s): WE 101M, (2), g	35
Tube(s): WE 102F, (2), g	35
Tube(s): WE 102L, (2), g	20
Tube(s): WE 205, dud	20
Tube(s): WE 205E, g	95
Tube(s): WE 205E, g	95



Chevie and E.G. Grandell pose for the camera displaying their VRPS awards honoring his 15 years as VRPS President and her constant support of club activities.

Tube(s): WE 215E, dud.....	25
Tube(s): WE 328A (2), g.....	20
Tube(s): WE 329, (2), g.....	15
Turner U95 microphone, w/box, N.O.S.....	110
Victor 48 console, g.....	150
Victor R-35, missing parts, p.....	75
Watterson coin-op, p.....	24
Watterson 4581, wood, small, g.....	40
Watterson L640, e, *.....	55
Western Model 377, wk, nice.....	100
Westinghouse Aeriola Sr. w/good WD-11, g.....	170
Westinghouse H, white Bakelite, vg.....	55
Westinghouse H188, g.....	16
Westinghouse H210, g, *.....	24
Westinghouse H398T5 clock radio, g.....	25
Westinghouse refrigerator radio, g.....	65
Westinghouse WR-170, g.....	25
Weston 774 set analyzer/tester, g.....	30
WLS Silvertone drum speaker, g.....	40
Wonder radio, w/digital clock, g.....	110
Woolaroc 3-5A table, black.....	60
Zenith G730W, wk, g.....	20
Zenith 4B31 tombstone, g.....	95
Zenith 4V31, vg, *.....	170
Zenith 5B23NK-N table, g.....	45
Zenith 5D0112Z, brown Bakelite.....	20
Zenith 5D312, curved front.....	100
Zenith 5D610W table, white.....	20
Zenith 5G03 clock radio, recapped, g.....	38
Zenith 5R126 cube, g.....	85
Zenith 5R312, Bakelite, vg.....	75
Zenith 5S139 chairside, f.....	170
Zenith 5S228, nice.....	130
Zenith 5S319, vg.....	140
Zenith 5S328 chairside, g.....	95
Zenith 6B128, converted to AC.....	160
Zenith 6D05, g.....	22
Zenith 6D410, brown Bakelite, 1942, g.....	50
Zenith 6D612, vg.....	30
Zenith 6D625, g.....	45
Zenith 6G001Y portable, AM, g.....	60
Zenith 6G05 white Bakelite, vg.....	65
Zenith 6G05, vg.....	20
Zenith 6J230.....	85

Zenith 6S027, wood, g.....	40
Zenith 6S351, missing parts, unk.....	30
Zenith 6S527, 1941, g.....	55
Zenith 6S656 console, f.....	85
Zenith 7C02, AM/FM, f.....	10
Zenith 7E02, AM/FM, brown Bakelite, g.....	25
Zenith 7G01, AM/FM, f.....	20
Zenith 7G02, AM/FM, f.....	20
Zenith 7H820, AM/FM (old & new).....	50
Zenith 7S363, wk, vg.....	280
Zenith 7S634R, wood, g.....	90
Zenith 8D617, Bakelite, g.....	32
Zenith 8G005 Trans-Oceanic, g.....	90
Zenith 8G005 Trans-Oceanic, wk, f-g.....	50
Zenith 8G005Y Trans-Oceanic, f.....	30
Zenith 8S30 tombstone, f-g.....	400
Zenith 8S154, vg.....	350
Zenith 8S661 console, 1942, f.....	75
Zenith 8S667 console, wk, g.....	160
Zenith 9S344 chairside, g.....	170
Zenith 9S367 console, vg.....	400
Zenith 10H571 spinet, vg.....	300
Zenith 10S363, 1941.....	190
Zenith 10S464 console, f-g.....	100
Zenith 52 console, vg.....	160
Zenith 1000 Trans-Oceanic, g.....	100
Zenith 1000D Trans-Oceanic, vg.....	90
Zenith 8946 console, f.....	65
Zenith B835E, blond finish, vg.....	25
Zenith C845 hi-fi, vg, *.....	20
Zenith D7000 Trans-Oceanic, w/manual, vg.....	210
Zenith G500 Trans-Oceanic, g.....	90
Zenith GD612, brown, wk well.....	26
Zenith H500 Trans-Oceanic, f-g.....	50
Zenith H500 Trans-Oceanic, g.....	60
Zenith H500 Trans-Oceanic, wk well, f.....	70
Zenith H503Y Trans-Oceanic.....	35
Zenith H511, round end, Bakelite, vg, *.....	55
Zenith H615Z1, recapped, g.....	26
Zenith HF1C845, AM/FM, g.....	25
Zenith J506C, plastic, 1960s, f.....	10
Zenith J615, recapped, g.....	22
Zenith K412, g.....	110
Zenith K510, brown, g.....	15
Zenith L500 Trans-Oceanic.....	30
Zenith L500 Trans-Oceanic, wk, g.....	65
Zenith L600 Trans-Oceanic, g, *.....	75
Zenith Parts & Service lighted sign, wk, g.....	80
Zenith porthole TV.....	45
Zenith Royal 500H transistor radio and case.....	45
Zenith S749E, brown Bakelite, f.....	85
Zenith T40AF portable, green, g.....	25
Zenith Universal AM, 1946, f.....	20
Zenith X733 clock radio, vg.....	20

Photo Credits: George Potter and John V. Terry

(George Potter, 536 Drexel Dr., Lewisville, TX 75067-2974; Michael Potter, 629 Delaine, Corpus Christi, TX 78411)

For information on the Vintage Radio & Phonograph Society (VRPS), contact George Potter, P.O. Box 165345, Irving, TX 75016. VRPS publishes "The Reproducer" quarterly and "Soundwaves" monthly between quarterlies. Dues are \$13.50. The club holds monthly meetings, a spring auction, an annual convention, and summer swap meets.



Capacitors in Old Radios — Part 3 Mica & Electrolytic Capacitors

BY RAY BINTLIFF

In this third of a series of articles on capacitors, Ray Bintliff describes and illustrates some typical mica and electrolytic capacitors. Parts 1 and 2 appeared in the December 1997 and December 1998 issues. (Editor)

Paper dielectric capacitors were covered in Part 2. Now in Part 3, mica and electrolytic capacitors receive similar treatment. You may want to read Part 1 again to refresh your memory regarding the advantages and limitations of each type of capacitor — mica, paper and electrolytic.

MICA CAPACITORS

Most early commercially-produced radios and home brews used mica-dielectric capacitors similar to those shown in Figure 1. These capacitors were usually of the stacked-and-riveted type of construction, but some were housed in a molded Bakelite case. Some included clips for mounting grid leak resistors. Figures 2 and 3 show mica capacitors that use a less conventional form of construction. The "Faradon" capacitor, manufactured by Wireless Specialty Co., uses stacked construction but has a single rivet at its center as opposed to the 2-rivet types shown in Figure 1. The "Hilco," shown in Figure 3, uses an unusual round case configuration. Look Ma, no rivets.

No doubt, old radios and junk boxes will contain some other very different looking mica capacitors, but you get the idea.

Although their basic construction remained the same — a multilayered sandwich of metal plates and mica dielectric — the appearance of mica capacitors changed as manufacturing techniques advanced. Figure 4 illustrates some types of mica capacitors that you may encounter in radios starting from about the 1930s. The three capacitors on the right are from RCA radios. The capacitor at the top is of open construction and was in use from about the early to mid-1930s. The two capacitors below it are encased in molded rubber and date from about the late 1930s until the early 1940s. The top three capacitors on the left are typical of the cased micas that can be found in radios from other manufacturers.

The capacitor shown at the bottom left is an example of a contemporary dipped mica capacitor. These encapsulated components offer improved

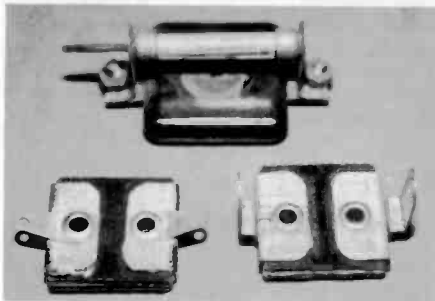


Figure 1. Three examples of early mica capacitors: From left to right: a 0.006 mF of open construction; a 0.002 mF with clips for mounting a grid leak resistor, and a Micamold brand molded case capacitor with a grid leak in place.

moisture proofing and protection from an adverse environment. They are excellent replacements for defective capacitors in old radios.

Mica capacitors are reliable components with a much lower failure rate than paper or electrolytic capacitors. But do not make the mistake of assuming that all of the micas in a radio are OK (they do fail sometimes).

IS THAT A MICA?

Just when it all seems clear, up jumps Murphy! Unfortunately, there are some wire-wound resistors that come in molded cases and look much like micas. Worse yet, they carry the *Micamold* brand. One example is shown in Figure 5. The resistors can usually be identified by their shape (their length to width ratio is much greater than micas).



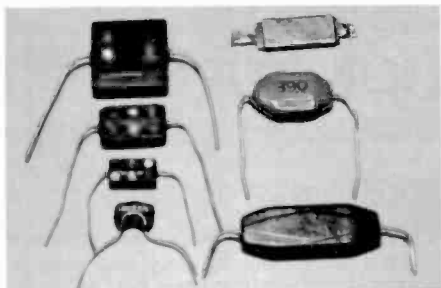


Figure 4. These examples of mica capacitors from RCA and other manufacturers are described in the text.

ELECTROLYTICS

Electrolytic capacitors provide large values of capacitance that are impractical in paper or mica form. Early AC-operated radios use paper capacitors as DC power supply filters. These paper capacitors are physically large, but relatively small in terms of capacitance. The use of electrolytics enabled design engineers to reduce the weight and size of their radios and to obtain better filtering through the use of larger values of capacitance. The first electrolytic capacitors were of the "wet" type. An early can-type electrolytic capacitor is shown at the bottom of Figure 6. This type of capacitor was referred to as "wet" because the electrolyte was in liquid form. Shake one of those old units and you can hear the electrolyte slosh around inside the can (unless it has all leaked out). Figure 7 shows a bottom view of a wet electrolytic capacitor from which the electrolyte has leaked and dried. As the electrolyte leaks from the capacitor its capacitance decreases and



Figure 5. A molded wire-wound resistor that may be mistaken for a mica capacitor.



Figure 6. Two examples of can-type electrolytic capacitors: a wet type at the bottom and a dry type at the top. Note the nut and threaded base used to mount the capacitors.

hum develops. These wet units had to be chassis-mounted in an upright position. Although the cans that enclosed the capacitors were usually made of aluminum, copper cans were also used. Figure 8 depicts a wet electrolytic from a Philco radio. The capacitor has been removed from the can to show its internal construction.

The wet electrolytic was an improvement over paper filter capacitors and the "dry" electrolytic was another step forward. The term "dry" is misleading since it is not really dry. The electrolyte is in paste form. The paste can ooze out if a seal goes bad, but the dry electrolytic capacitor is a much more stable component. A typical dry electrolytic capacitor is shown at the top of Figure 6.

The development of the dry electrolytic brought changes in the capacitors' configuration. Although metal cans were still used, manufacturers began



Figure 7. An example of a leaking wet electrolytic capacitor.

producing capacitors that were packaged in cardboard, as shown in Figure 9. The tubular and rectangular cardboard containers gave designers greater flexibility. Now they could place electrolytics under the chassis and in any position.

Unlike paper capacitors, electrolytic capacitors must be wired according to their polarity. The can-type of capacitors uses the can as the negative terminal and a solder lug or wire lead as the positive terminal. In some radios, the negative lead goes to a B- connection rather than to a

(Continued on following page)



Figure 8. A copper, can-type, wet electrolytic capacitor from a Philco radio.

(Capacitors in Old Radios—Part 3, continued)

chassis ground. Then the metal can must be insulated from the chassis. Fiber insulating washers are used with nut-mounted cans while fish paper or a similar insulator is used with clamp-mounted cans. The insulated cardboard capacitors eliminate the need for such measures.

The early can-type electrolytics were single units, but soon cans containing two to four capacitors were being produced. Figure 10 shows a multisection electrolytic.

REPLACING CAPACITORS

It is a rare instance when all or most capacitors in an old radio are good. In my opinion, *all* paper capacitors should be replaced when a radio is repaired or restored. Most capacitors can be replaced in the time it takes to test them. There are exceptions, such as those "hard to get to" caps buried deep in the RF circuitry.

Replacements for paper capacitors are more reliable and much smaller in size than the original parts. Modern replacement capacitors are readily available and reasonably priced. Figure 11 provides a comparison between an old paper capacitor and a modern unit. The old unit's rating is 0.5 mF at 400 Vdc, while the new smaller unit is rated at 0.47 mF at 630 Vdc. The present-day replacements, which use plastic film as the dielectric, are self-healing. Typical voltage ratings are 400 and 630 Vdc.

Modern electrolytic capacitors are also much smaller than their old equivalents. Figure 12 shows modern electrolytics paired with their old equivalents. These smaller replacement electrolytics can easily be fitted under the chassis so that the radio keeps its old look above the chassis. Unfortunately, many old radios have gaping holes where can-type electrolytics were once installed. Good repair/restoration practice dictates that the old cans must be left in place to preserve the radio's original appearance.

A note of caution — do not wire the replacement electrolytic in parallel with the old capacitor. The wiring to the old capacitor's positive terminal must be removed and connected to the replacement capacitor. Adding a terminal strip to support the new capacitor and the associated wiring is always good practice. Replacing capacitors and rebuilding capacitor blocks will be covered in detail in some future article. Capacitor testers will be the subject of Part 4 and the testers to be described will range from very simple early units to some complex and versatile devices.

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

Credits: Thanks to Richard Foster for lending the old can electrolytics recovered from his capacitor cemetery.

Ray Bintliff, W1RY, holds an amateur Extra Class license. A retired engineer and frequent contributor to A.R.C., 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.



Figure 9. Some examples of dry electrolytic capacitors in cardboard containers that insulate the capacitor from the chassis. Note the multisection unit at the top left.



Figure 10. This "bottoms up" view shows a 4-section electrolytic capacitor.



Figure 11. Modern capacitors with plastic film dielectric are much smaller than the old paper dielectric capacitors.

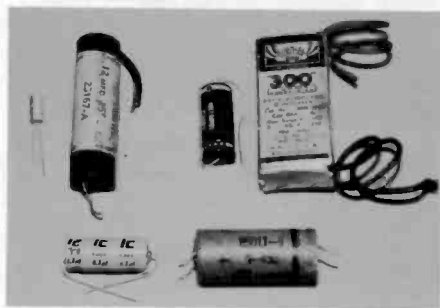


Figure 12. Modern electrolytic capacitors are very compact. Compare the modern capacitors shown on the left with their older equivalents on the right.

WITH THE COLLECTORS

More on RCA TV Service

BY ALTON A. DUBOIS, JR.

Wow! Did Ray Bintliff's article about RCA Service Company ring bells and b'ow horns for me. I was one of those field techs starting in 1948.

It all started when I was working for a small, two-man radio shop in Scarsdale, New York. I had just gotten my second class radio telephone license, and I had heard that RCA was hiring. I reported for an interview and after an electronics test, I was offered \$37.50 a week and guaranteed overtime. It was \$2.50 more than what I was making for six days and no overtime pay. So, figuring that it was a bigger pond than I was in, I accepted it.

When I reported to the Westchester, New York, branch, in Bronxville, New York, to my amazement, it was the same shop building where my father had been an auto mechanic in the 1930s.

My first assignment was with another man who had been with the company only a year or so longer than I. We had two antenna installations to do, and we completed them by 11:30 A.M. Then, after lunch, we spent the rest of the day reading the newspaper. I began to wonder what I had gotten into. After working 9:00 A.M. to 6:00 P.M. for six days a week, and no overtime, here I was "dogging it" on the job.

That changed right after the branch moved to White Plains. In no time, we had about 70 employees because Channel 13 had just gone on the air. We were running around like crazy, putting up Channel 13 antennas on old installations and even on some new ones.

One time, in Yonkers, New York, we were searching for a place for a Channel 13 antenna, and neither high nor low was good. Then, the roof guy dropped the antenna, and it landed on a small front door roof, pointing almost to the ground. There was a good picture. We screwed the antenna to the roof and ran a separate line to the antenna switch. Most of the antennas were coupled onto the larger one with a special balun and pointed slightly off center from the big one, because Channel 13 was broadcasting from New Jersey.

Later on, we ran all over Westchester County trying to get Channel 3 from Hartford, Connecticut.

MORE CHANNEL 13 PROBLEMS

A year or so later, we had another problem with Channel 13. Since it was the high frequency TV station at that time, the problem was moisture. The wooden cross arm that had two aluminum rods bolted next to each other with brass washers was susceptible to moisture and corrosion.

One incident that I recall involved a customer who complained that every time she flushed the toilet, Channel 13 and other channels would disappear! On checking, I found that Channel 13 was

O.K., but in examining the antenna, I noticed that it was mounted on a chimney, and the active elements were over the flue. Below it was a sewer vent pipe commonly known to us as a "stink pipe." I asked my helper to get a sprinkler can of water.

"What the hell do you need that for?" he asked.

I told him to go watch Channel 13. I sprinkled water on the antenna and he yelled, "It's gone!"

What had happened was that the soot from the chimney had coated the antenna elements at the washers, and when the fumes from the stink pipe came up, the antenna was soaked with moisture. Cleaning and relocating the antenna solved the problem.

THE MET LIFE PROJECTS

After a few years, I was offered a temporary transfer to "The Met Life Projects." Another fellow and I commuted to Metropolitan Avenue in the Met Life projects. We were later joined by several others from the Bronx branch.

We started to make surveys for the antenna positions on the Parkchester apartments, and to install master antenna systems using the high-gain amplifiers under the approval of a Met Life engineer who had very strict demands for antennas and the quality of reception. We acquired more men and proceeded to do the same in other Met Life projects that included Stuyvesant Town, Peter Cooper Village and Riverton in Harlem. The antennas we used were large Yagi individual channel antennas on a 10-foot pipe. We had many problems with reflections, including problems with Channel 13 as previously mentioned.

Five years later, I went back to the Westchester branch as a master antenna specialist. I could now do dB losses in my sleep!

When the company started telephone installations, I accepted a job in this new field. I spent hours racking my brain in telephone school at Maple Shade, New Jersey. We did a lot of telephone systems in Westchester, but I was sent back to Parkchester several times on temporary assignment. I made many friends that I still hear about through the RCA Retirees Club newsletter titled *Nipper News*.

(Alton A. DuBois, Jr., 67 Peggy Ann Rd., Queensbury, NY 12804)

Alton DuBois has been interested in radio since working for an engineer after school in the 1930s for 10 cents an hour. In 1948, he began working TV service for RCA, and he is a founding member of the RCA Retirees Club. His collecting interests include antique radios and clocks. He is the president of the Tower Clock Chapter of the National Association of Watch Clock Collectors.



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.

More on Raytheon Tubes

Dear Editor:

I have congratulated Phil Whitney on his interesting article about the labeling of Raytheon tubes in the October 1999 A.R.C. He mentioned that Raytheon occupied the plant used earlier by the makers of the famous Liberty airplane engines found on World War I bombers. I had never heard that story before. I wondered if that was the Lowell, Mass. plant formerly known as the Davis Aircraft Company. If not, where was this plant located and what was its name?

Phil's photo of the tube with "Raytheon" stamped on the metal plate inside the tube is very good. I have only one such tube in the Raytheon archives here in Lexington, Mass., and it is quite unusual.

One of the reasons the tubes were branded "Eveready Raytheon" was that National Carbon, owner of Eveready, signed an unpublicized option in 1929 to buy Raytheon for \$15 to \$19.5 million within a few years. The company agreed to invest \$500,000 to cement the deal, and Raytheon agreed to make a line of standard receiving tubes with half of them marked "Eveready Raytheon."

When I joined the company in 1935, National Carbon had let the option go in the early 1930s and never acquired Raytheon. By 1935, we were "private branding" many of our tubes with Philco, RCA, GE, Silvertone, Motorola, etc. No one tube company was able to tool up for all the tube types, as it was not economical.

Enjoy your magazine each month and circulate it to three people here at the Lexington plant.

Norman B. Krim, Archivist, Raytheon, Company, Lexington, MA

Who Was Ulysses A. Sanabria?

Dear Editor:

In response to the inquiry in the October 1999 A.R.C. about TV pioneer Ulysses A. Sanabria, I offer the following information: I am a graduate of the American Television Institute of Technology, which Mr. Sanabria founded. Enclosed is a copy of the commencement program for the class of 1952. U.A. Sanabria is listed as President and Founder, J.M. Sanabria as Vice-President, and H.N. Sanabria as Treasurer.

Others listed are Col. George Engelthaler, as Director of Training, Milton Goldstein as Dean, and Col. Paul G. Armstrong, and Park Livingston as trustees. None other than Dr. Lee De Forest is named as Director of Research. Perhaps some of these names can be traced and will lead to more information about U.A. Sanabria.

Donald G. Spencer, Burney, CA

Without A.R.C.

Dear Editor:

Our radio hobby wouldn't be as exciting or productive without your great A.R.C.

Bill Olson, Filer, ID

Con Auction Reports

Dear Editor:

I'm annoyed! Every issue has pages and pages of results of distant auctions. I couldn't care less that someone paid more than a radio is worth.

I would like to see more technical articles with information on restoration and articles on the history of sets. If anyone seriously wants a list of auction results, put it on your Web site. Don't take up the limited article pages.

Alton A. BuBois, Jr., Queensbury, NY

Unfortunately, we can't always please everyone. However, we always insure that our meet and auction reports include more than just prices. The November 1999 Rochester & Elgin Issue, for example, included 14 photos from a special Zenith Exhibit including three Zenith Stratospheres; one Stratosphere was shown in color on our cover. Numerous unusual and/or rare sets such as the Pocket Radio, Paragon RA-6, Victory-Grantone, Pierson radio, etc., were included among the 64 photos in that issue.

We also run these meet and auction reports to encourage collectors to attend these events where they meet and talk with other collectors and learn more about old radio, which we all enjoy.

By the way, auction prices are included on our web site. (Editor)

It's Not The New Millennium Yet!

Dear Editor,

I just saw the front cover of A.R.C. and the first sentence of your comments.

I am sure you must know that the 3rd millennium and the new century does not start until next year, 2001. Have you fallen for all the hype put out by the media, Madison Ave, and the computer people into believing the we are in the 3rd millennium now??

If A.R.C. were not somewhat of a historical magazine, I would not think too much about it, except that here is just one more organization going along with all the incorrect hype. It is disappointing to see A.R.C. fall in line with all the rest of the sheep.

I like history, and dates are important. The way I see it, by accepting the insertion of a "zero" year before year 1 A.D. which conveniently, although wrongly, makes year 2000 the first year of the new century and of the 3rd millennium is like trying to revise history. There was no "zero" year!

Oh well, I know my voice is just a feather in the wind. I am happy though that there are more folks out here such as myself that are trying to keep the truth alive and well concerning what century and millennium we are experiencing.

Allen W. Steiner, Burlington, KS

I guess that in a weak moment, A.R.C. succumbed to the millennium hype. See the "Editor's Page" in this issue for more comments. (Editor)

CLASSIFIED ADVERTISEMENTS

WANTED: RCA or Welch Scientific demonstration breadboard of superheterodyne receiver. Must be working. Art Sabin, 315 Plymouth, Chicago, IL 60604. (312) 987-1441. E-mail: 7sabin@jmls.edu

WANTED: Arvin metals, 12" Alnico speaker for 1940 GE console. Patrick Franzis, N10CJ, 235 Millville Ave., Naugatuck, CT 06770-3848. (203) 723-8976. E-mail: n10cj@arrl.net

WANTED: Antique demonstration, scientific apparatus, electrical and optical. Early microscopes. Allan Wissner, Box 102, Ardsley, NY 10502. (914) 693-4628. E-mail: wissner@bestweb.net

WANTED: 1941 Oldsmobile radio, complete & good cosmetic condition. Bill Johnson, 34 Springlake Pl. NW, Atlanta, GA 30318-1646. (404) 355-6308

WANTED: Radios by American Bosch. Table, tombstones or consoles (Model 18, 20-L) in vg condition. Repwood Falls. Tom Ballard, 12 Wellington St., Shelburne Falls, MA 01370. E-mail: tomballard@fcs.state.ma.us

WANTED: Early 1920s EV-RA-LAB radio units, components. The Carlisle & Finch Co. headphones. George Freeman, 102 E. Main St., PH. Madison, IN 47250-3411. (812) 265-6878

WANTED: Antique quack medical, Electrotherapy, Diathermy, X-ray equipment. Wallplates, cabinets, shockboxes, made by Wappler, Thompson-Plaster, McIntosh, Liebel Flarshiem, Victor, etc. Dr. Albert Abrams E.R.A. devices (Oscilloclasts, Dynamizers). Spectrochromes (colored light projectors). Electropoise, Oxydonor, Oxypathor devices (chromed metal cylinders with wires attached). Magnetic belts brushes. Tesla, Oudin, induction coils. Please visit my web site at www.radiantlab.com/quackmed. Send picture/description or call. Mr. David Rickert, 2107 S. 5th St., Apt. 1, Arlington VA 22204-1931. (703) 486-2782. E-mail: rickertd@gdls.com

WANTED: Escutcheon for Dynaco SCA-35 integrated amp. Also Philco 60B, Crosley 66TA, Gloritone 26. Doug Fox, 603 S. 12th Ave., St. Charles, IL 60174. (630) 584-5915. E-mail: dfoxradio@aol.com

WANTED: Tube hi-fi/commercial tube gear, Altec, Heath, Dynaco, McIntosh, Fisher, Scott, Marantz, Quad, Leak, etc. Sonny Goldson, 1413 Magnolia Ln., Midwest City, OK 73110. (405) 737-3312. Fax: 3355

WANTED: Several affordable 0-1 and 0-5 DC ammeters, both regular and 270° types. Prefer small, round, black face meters. No radioactive luminous paint. Chris Cross, Box 68, Cedarville, IL 61013

WANTED: Book, My San Francisco Story Waterfront Wireless, by Johnstone, 1965, name your price. Jerry Simkin, 10 Avalon Ln., Matawan, NJ 07747. (732) 583-5196

WANTED: \$1,000 paid for certain 78 rpm records. For our illustrated wantlist, send \$2+ LSASE to Nauck's Vintage Records, 6323 Inway Dr., Spring, TX 77389

WANTED: Rider's Perpetual Trouble Shooter's Manual Volume 3 in good condition. Gregg Humanic, 540 Wicklow Ln., Monroe, OH 45050. (513) 539-8926

A.R.C. Advertising Policy

Sellers and Buyers, Please Note!

- Advertising is accepted only for early items
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WANTED: General Electric K-64, RCA 121, or Westinghouse WR-37 cathedral radio. Mark Hewitt, 6659 Tipperary Trl., Roscoe, IL 61073. (815) 623-8729

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: billbryantgmt@home.com

WANTED: Unusual early transistor radios by General, Yaou, other stuff not listed in books. David Mednick, 10 Doe Dr., Wesley Hills, NY 10901-2302. (914) 354-5041. E-mail: davemed@acd-pc.com

WANTED: Vogue picture records. Phonograph advertising items: original advertising from Edison, Victor, RCA Victor. Needle tins, advertising featuring Nipper. Record brushes and dusters. Pocket advertising mirrors. Dealer trade cards, lapel pins, buttons, posters, puzzles, fans. Edison, Columbia, and any wax cylinder records. Phonograph toys. Toy wind-up phonographs. Thanks. Bernie Seiberger, 714 Moredon Rd., Meadowbrook, PA 19046-1907. (215) 886-6124. Fax: (215) 638-2265. E-mail: phonoman-bernie@worldnet.att.net

WANTED: Coca-Cola, Yogi Bear, Signal Corp. BC14-A, and other older crystal radios. Galen Feight, The Crystal Radio Guy, 3104 S.E. 20th, Portland, OR 97202. (503) 231-9708

WANTED: Plug-ins for HP140A, inner label for Freed-Eisemann NR-5. Jiri Placek, 60 Applewood Ln., Boyertown, PA 19512. (610) 367-0861

WANTED: Nice original speakers: 1941-42 Philco 860 ohm 12 inch; 1937 Zenith 1200 ohm 5 inch. Pilot light lens for 1941 Philco console 5/16" hole. Lawrence Golub, 102 Wild Plum Ln., Longwood, FL 32779. (407) 788-0117

FOR SALE: Reprints of early radio articles. Send stamp or check this web address: <http://www.rainybooks.com/reprints.htm>. Rainy Day Books, PO Box 775, Fitzwilliam, NH 03447. (603) 585-3448.

FOR SALE/TRADE: Amplifiers, Eico HF12, Heath EA2, SA2, Craftsmen Solitaire C250, variac for ham gear. Joseph Bedlovics, PO Box 139, Stratford, CT 06615

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FOR SALE: Sams Photofacts. Send for list or call for those available. Thanks. Bill Olson, 4023 N. 2000 E., Filer, ID 83328. (208) 326-4962

FOR SALE: Red Arvin Hopalong radio - \$375. Visit internet web site: interestingoldjunk.com. James J. McGrath, W2IOJ, 2 Centerview Ln., West Seneca, NY 14224-2124. (716) 675-0160. E-mail: w2ioj@yahoo.com

FOR SALE: Philco 40-125 - \$65. Crosley 52TF - \$40. Silvertone 1017 - \$30. Motorola 52R - \$25. Herb Love, 6 Linda Ln., Pearl River, NY 10965. (914) 735-9172

FOR SALE: Last chance, moving: Panel meters - no lists. Receivers/transmitters prior to 1930. Ye Olde Meter Cellar, Leonard W. Cartwright, 879 Russet Dr., Sunnyvale, CA 94087. (408) 739-6025. E-mail: lencartwright@msn.com

FOR SALE/TRADE: Emerson 572 white Plaskon clockette; Philco 39-6 factory bone-white! **WANTED:** CaVac, Courier, Peerless. Nevins Museum of Radio, Ken Nevins, 406 Jipson St., Blissfield, MI 49228. (517) 486-3019, evenings please. E-mail: knevins@tc3net.com



FOR SALE: Spruce up your Crosley radios! Now you can realistically connect Crosley receivers to their appropriate amplifiers with Crosley blinding post connector straps (see photo above). Nicely made new stock: rolled steel with dull nickel-plated finish - \$3 ea. plus shipping. Sam Luscomb, 510 Virgo, Mission, TX 78572-6529. (956) 580-2474. E-mail: glass-shard@acnet.net

FOR SALE: (2) Ampex recorder/reproducers in good operating condition (1 AG-354 tubes, the other is solid-state) with remote controls, (2) extra transport decks, (1) 19" vertical mounting rack on wheels, some extra parts and manual included - \$650. Marty Fleisher, 12 Zellers Rd., PO Box 123, Long Valley, NJ 07853

FOR SALE: Telephone amplifier. Adapt any telephone to hands free speakerphone operation, N.J.B. - \$10 plus shipping. Ralph Michelson, 4538 Golfview Dr., Brighton, MI 48116. (810) 225-9825

FOR SALE: Philco farm set, tombstone, 1933 - \$110. RCA 4-RC-84 wood shelf radio; works - \$45. Plus 18 more. Write for list. SASE. All plus shipping. Don J. Scher, 3705 57th Ave., Vero Beach, FL 32966

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12 noon, Registration Desk opens "Program Sessions"	7:00am, Registration Tent opens in rear parking lot	8:00am, Flea Market opens
2:00pm, Key Collecting	8:00am, Flea Market opens "LeMans Start"	9:00am, LAST CALL for Contest Entries
3:00pm, - TBA -	12noon, Check in equipment for Auction & Contest	10:00am, Contest Room closed for judging
4:00pm, CC-AWA Annual Membership Meeting	3:00pm, Equipment Auction	12noon, Annual CC-AWA Members Luncheon
7:30pm, Radio Restoration by, Stan Watkins	7:30pm, Reception in BR A&B View Contest Entries	1:00pm, Contest Room opens for viewing of awards
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FOR SALE: Civil German W.W. II radios DKE 38 with one German symbol - \$235. VE 301 Dyn. with (2) German symbols - \$290. VE 301 with German eagle - \$250. All include packaging and shipping by air.
WANTED: Old motors and Bendix 526C radio. G. Faassen, Heideweg 1, 5953 T. L. Reuver, Holland. Fax: 0031-77-474-6683

FOR SALE: Rider's manuals 1-13. Sams Photofacts 1 thru 1500, approx. most in filing cabinets. Precision signal generator Model E-200C. Meissner analyst signal tracer. Electro Model BJ filtered power supply 6 & 12 volts for auto radio repair. Transvision coil tester. Hickok Model 670 scope needs repair. Hickok television video meter, Model 650. Amphenol CRT commander. Full set of RCA adapters for older RCA color TVs service work. RCA color bar, DOT, cross hatch generator #WRG4B. RCA mini color bar generator WR508B. Hundreds of brand new tubes in original boxes. Condensers, resistors, volume controls, transformers. Tube caddies, coils. No phone calls. Replies by mail only. Buyer must take all, no piecemeal. Pick up only - Best Offer over \$5,000. John Marona, Box 606, 32 Front St., Millbrook, NY 12545

FOR SALE/TRADE: New Sound of Music by Wolff & Jacobson (latest version) for a Douglas book or Shortwave Receivers by Osterman. A. Bruno, 24 Butternut Dr., New City, NY 10956. (914) 354-8899

FOR SALE: DeForest D-7, D-10, etc. reproduction loop antenna, quality built - \$135 plus \$10 shipping. Ed Bell, 5311 Woodsdale Rd., Raleigh, NC 27606. (919) 851-1517. E-mail: ekbell@mindspring.com

FOR SALE: GE-503 works, vg - \$150. Delco R-1230 ribbon grille - \$70. Gloritone 99 cathedral, works - \$200. Silvertone 1807 tombstone, missing knobs - \$50. Tom Ballard, 12 Wellington St., Shelburne Falls, MA 01370. (413) 625-8345. E-mail: tomballard@fcs.state.ma.us

FOR SALE: Oscilloscope tester; Hallicrafters S-38 receiver; Western Electric 301 BC amperes tester - Best Offer takes any/all. Gary Van Hoozer, 812 N. Third St., Tarkio, MO 64491. (660) 736-4528

FOR SALE: LSASE for 16 page list mesh. SkyRover: BRC740 in wood cabinet - \$25. Chancell Master 6 transistor, Japan, leather case - \$25. Zenith Royal 130 black, couple marks on front - \$35. Zenith R600L, 6R41 brown leather w/operating guide, orig. brochure, cabinet parts list, schematic diagram - \$250. Zenith 3000 slight rust on back side - \$150. RCA 9X561 - \$45. RCA 6RF9 - \$35. RCA Radiola 61-8 - \$45. Arvin 6640 - \$50. Lorenz Touring II portable - \$25. Sonora RDU 209, 229 - \$45. Airline 94-BR1535A - \$50. Clayton Vedder, 1037 Rt. 23A, Catskill, NY 12414. (518) 678-0475

FOR SALE: Air capacitors, transformers, publications. SASE for lists. Bill Riley, W7EXB, 863 W. 38th Ave., Eugene, OR 97405-2375. (541) 345-2169

FOR SALE: Sparten Ensemble Model 101, rare, expensive, radio-phonograph c. 1929, thirteen tubes, push-pull 26s driving push-pull 50s, heavy cast record changer, burl walnut cabinet in mint condition, original owners manual and service notes. Will consider trade on high end Victor Electrola. Paul Ciancia, 437 Sicomac Ave., Wyckoff, NJ 07481. (201) 569-8255, days. (201) 891-6842, eves.

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(920) 208-0353

(All tubes are subject to testing and inspection)

WESTERN ELECTRIC:

VT-2 / 205A/B \$225 NOS, \$110 used
 VT-25 \$50 NOS, \$25 used
 VT-52 \$150 NOS, \$75 used
 101D / 101F \$175 NOS, \$100 used (TB)
 101D / 101F \$40 NOS (ST)
 102D / 102F \$175 NOS, \$100 used (TB)
 102D / 102F \$35 NOS (ST)
 205D/E \$425 NOS, \$275 used (TB)
 205F \$200 NOS, \$100 used
 211A/D/E \$300 NOS, \$175 used
 212A/D/E \$750 NOS, \$300 used
 216A / 217A \$175 NOS, \$90 used
 228A \$100 NOS, \$50 used
 231D / 257A / 281A / 349A \$50 NOS
 242A/B/C \$200 NOS, \$100 used
 244A / 249A \$25 NOS
 252A \$1100 NOS, \$650 used
 261A \$150 NOS, \$75 used
 262A Balloon / 275A \$90 NOS, \$50 used
 262B \$40 NOS, \$15 used
 264A/B/C \$30 NOS, \$15 used
 274A / 274B \$210 NOS, \$110 used
 274A / 274B \$250 NOS engraved base
 276A \$100 NOS

300A / 300B \$850 NOS (engraved base)
 300B \$550 NOS, \$275 used (1950-60's)
 310A / 311A \$20 NOS, \$10 used
 331A / 367A / 272A \$45 NOS
 348A \$80 NOS, \$40 used
 350B \$200 NOS, \$100 used
 345A / 352A \$25 NOS, \$13 used
 412A / 418A \$10 NOS
 417A / 420A / 5755 \$10 NOS
 421A / 422A \$35 NOS
 347A / 437A \$75 NOS, \$38 used
US & EUROPEAN TUBES:
 2A3 RCA \$42 NOS, \$20 used
 2A3 Single-Plate \$175 NOS, \$100 used
 10 Balloon \$70 NOS, \$35 used
 10 Balloon "Meshplate" \$100 NOS

112A Balloon \$25 NOS, \$13 used
 26/226 Balloon \$10 NOS, \$4 used
 45/245 Balloon \$60 NOS, \$30 used
 45 Balloon "Meshplate" \$110 NOS
 50 Balloon \$200 NOS, \$110 used
 50 Balloon "Meshplate" \$275 NOS
 71A Balloon \$25 NOS, \$13 used
 80/280 Balloon \$30 NOS, \$13 used
 211 RCA / United \$110 NOS
 800, 808 RCA \$40 NOS, \$20 used
 845 RCA \$200 NOS, \$85 used
 5691 Red Base \$18 NOS, \$10 used
 5692 Red Base \$35 NOS, \$18 used
 6550 Tungrol \$60 NOS (ST)
 7189A US Brands \$10 NOS
 7591A \$30 NOS, \$15 RCA used
 6L6GC RCA Black Plate \$30 NOS
 12AX7 Telefunken \$15 used
 12AX7 RCA \$8 NOS
 5AR4 Mullard \$35 NOS
 EL34 Mullard \$60 NOS, \$30 used
 EL37 Mullard \$60 NOS, \$30 used
 KT66 Genalex / Mullard \$70 NOS
 KT77 Gold Lion/GEC \$120 NOS
 KT88 Gold Lion/GEC \$150 NOS

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WANTED: Amateur Call Books from 1941 & 1946. Type 35 vacuum tube. Joe Janovsky, 407 Phillips Rd., Saugerties, NY 12477. (914) 246-2452. E-mail: w2ovf@ulster.net

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Feb. 10 for Mar. 2000 Issue

Mar. 10 for Apr. 2000 Issue

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WANTED: Small cathedral in good condition. Picture and details to: Ray Judd, 225 S. Riverside Dr., Ames, IA 50010. E-mail: jjudd@iastate.edu

WANTED: Old hi-fi/commercial horn speakers, Altec, JBL, EV, Jensen, Goodmans, Western Electric, etc. Sonny Goldson, 1413 Magnolia Ln., Midwest City, OK 73110. (405) 737-3312. Fax: 3355

WANTED: Pre-1925 equipment. Tubes, Grebe, DeForest, Murdock, AKent, in good condition. Marc Gottlieb, Box 1112, South San Francisco, CA 94083-1112. E-mail: mgottlieb1@excite.com

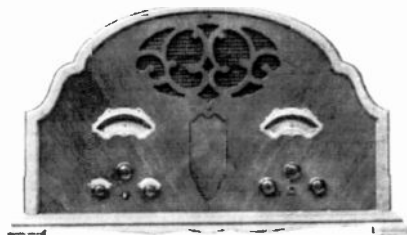
WANTED: Miniature and subminiature tube coat pocket size plastic radios. Dinged and blemished beauties also proudly displayed. Toy crystal radios resembling classic tabletop designs also collected. Mike Brooks, 7335 Skyline, Oakland, CA 94611. (510) 339-1751, evenings

WANTED: 1950-1952, Richard J. Buchan, WOTJF published Rhombic TV Antenna book. Desperately want copy or copy of copy. Robert B. Cooper, PO Box 330, Mangonui, Far North, New Zealand. E-mail: Skyking@clear.net.nz

WANTED: Chassis for Majestic Melody Cruiser Model 1S49, any condition. Jerry Valentine, 10803 N.E. 143 St., Kirkland, WA 98034-4409. E-mail: w7ozx@qsl.net

WANTED: Crystal sets, collection now at 449 pieces, seeking more. Erwin Macho, Ambrosweg 17/A/8, A-1230 Vienna, Austria. Fax: ++431/8874355

WANTED: Schematic diagrams of solid-state radio control systems for six meters, non commercial. Robert Jenkinson, 10156 12 1/2 Ave., Hanford, CA 93230



WANTED: The above Pilot radio, will pay up to \$1,500 or trade. Call: Bill Moore, 1901 Spanish Oaks, Huntsville, AL 35803. (256) 885-0068. E-mail: bmoore2nd@aol.com

WANTED: Wood table radios, General Electric Model HP657A, Stromberg-Carlson Models 320H or 400H. D.W. Donaghu, 19791 Lombardy Ln., Yorba Linda, CA 92886. (714) 693-8632

WANTED: Instructions and carrying handle for RCA AR812 Superhet. Reproductions acceptable. John L. Frigo, 2807 Willow Rd., Homewood, IL 60628. (708) 799-3472, evenings

WANTED: Roland radios from the 50s, any type or color. Roland Frolund, 1265 Linn Ct., Turlock, CA 95380. (209) 668-1959. E-mail: rfrolund@aol.com

WANTED: WE 753 will buy/trade other WE, Tannoy GRF, Marantz. Frank Cooney, 30 Columbia Ave., Cranford, NJ 07016. (908) 272-0676. E-mail: fjc1z@worldnet.att.net

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FOR SALE: Vintage tube CBs & vintage microphones, LSASE for lists. Fisher Spacexpander, complete. Charles Zafonte, N1FRX, RR3 Box 2075, Fort Kent, ME 04743. (207) 834-6273, eves./weekends

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FOR SALE: RCA 96T4, wood (Bunis 3), nice - \$65. B&K 960 transistor radio analyst, works - \$25. Rod Galloway, 2220 Woodbury Rd., Melbourne, FL 32935. (321) 254-0280

FOR SALE: Sony TR6080 green transistor radio, corner chips - \$49. **WANTED:** Crestline 6T330. Radio sale web site: <http://members.aol.com/dmradios/tube.html>. Donald M. Maurer, 29 S. 4th St., Lebanon, PA 17042. (717) 272-2481. E-mail: dmradios@aol.com

FOR SALE: Sams Auto Radio manuals, 329 different vols. - \$400 takes all. Jim Farago, 4017 42nd Ave., So. Minneapolis, MN 55406-3528. (612) 722-0708

FOR SALE: Tabletops: GE114WP, ivory - \$45; Westinghouse H-393T6, maroon - \$35; Stewart-Wamer 9151A, rare Canadian version, AM - \$45. Fisher Spacexpander tube reverb - \$80. Freed 1110A inductance bridge - \$75. Vintage microphones, LSASE. Charles Zafonte, N1FRX, RR3, Box 2075, Fort Kent, ME 04743. (207) 834-6273, eves./weekends

FOR SALE: Fada 740, white, perfect - \$160. Philco 20 chassis - \$50; shield - \$25. Philco 86 chassis - \$40; speaker - \$45. A-K 55C and 60 chassis - \$40 ea. Parting Gloritone 26. **WANTED:** Zenith 835 chrome front and Super 28. Chris Hicks, RR 2, Box 342, Clinton Corners, NY 12514. (914) 266-4257

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FOR SALE: Zenith 6T5 used eye tube, one only. Trade for N.I.B. 6E5s or 6U5s or? It's visible with the lights on! Equip your console with the original magic eye tube. Radios, tubes, parts and radio miscellaneous stuff on my list for a LSASE, stamp or email. Stan Lopes, KB6LGV, 1201-74 Monument Blvd., Concord, CA 94520. (925) 825-6865. E-mail: splopes@aol.com

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348A 349A 350B 412A
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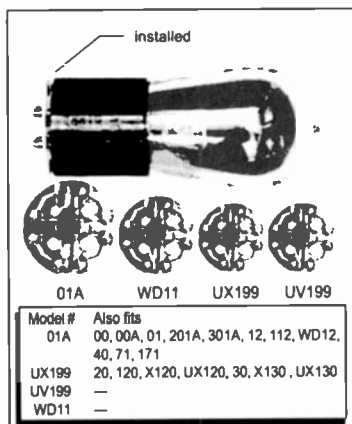
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These tube repair wafers are solid-state devices for quick and easy repair of early vacuum tubes. The wafer is installed by simply sliding it over the tube pins and reinserting the tube into its socket. If the filament is intact, but there is little or no emission, the filament may be lit for best visual effect. However, the tube can be open filament.

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The H15/ H16 power supplies operates most tube type battery radios from low cost batteries. The H15/H16 steps up the voltage from a 6V battery to provide 22.5V, 45V, and 90VDC for the "B" voltage requirements.

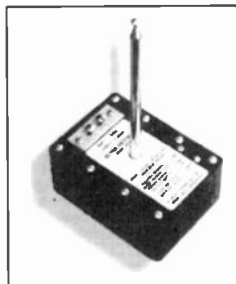
A very desirable feature of the H15/H16 is the method of switching power on and off. This function is provided by the switch on the radio. No radio modification required.

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SUPER WINTERMEET 2000 HAVERTOWN, PA

Saturday, March 4, 1999 - 8:00 AM till 2:00 PM

The Delaware Valley Historic Radio Club presents its all-indoors swapmeet and auction at the Grimes Center, St. Denis' Church, in Havertown, PA. Just west of Philadelphia, the site has easy access from the PA Turnpike or I-95. It is a large meeting hall with easy, ground floor unloading from the parking lot. The auction is planned for 11 o'clock. Food and beverages will be available. Seller setup begins at 7:30 AM. Buyers only admitted at 8:00 AM.

From the PA Turnpike: use exit 25A (I-476 South) to Exit 4 (Rte. 3 East/Upper Darby.) Stay left. Turn left at the second light (Lawrence Road.) At the next light, go left onto Eagle Road. At the third light, turn right onto St. Denis Lane; head for the Grimes Center on the left.



From I-95: Go north on I-476 to Exit 4 (Rte. 3 East/Upper Darby.) Stay left. Turn left at the second light (Lawrence Road.) At the next light, go left onto Eagle Road. At the third light, turn right onto St. Denis Lane; head for the Grimes Center on the left.

RATES: Buyers: \$3 at the door on the day of the event. Sellers: the rate is \$15 per table in advance, \$20 per table on the day of the event. THIS IS A SELLOUT MEET!!! RESERVE EARLY to guarantee a space. To reserve your space, just send a check, payable to DVHRC, to P.O. Box 847, Havertown, PA 19083. For confirmation, send SASE.

For information contact: Bill Overbeck at 610-853-3199 or Dave Abramson at 610-827-9757.

Check our website at <http://pw2.netcom.com/~firstake/dvhrc.htm>

WANTED: Wooden cabinet tabletop AM radio/78 record player combination from late 30s or early 40s. It does not have to work but must be complete and repairable. Jerry L. Everhart, K4FMC, 278 Wildlife Rd., Lexington, NC 27292-2113. (336) 357-7761

WANTED: Wurlitzer jukebox 750E, record cutting machines, Chrysler Highway hi-fi record players, 45 rpm records. Kim Gutzke, 7134 15th Ave. S., Minneapolis, MN 55423. (612) 869-4963. Fax: (612) 798-4169

WANTED: Chart for Eico 636, schematic for Stewart-Warner 300 and 900 AC, chassis for S/W 300. Leonard Manning, 1948 Thurmond Pl., Charlotte, NC 28205. (704) 332-8811

WANTED: In excellent cosmetic cond.: A batteries Eveready #746 or Burgess #G3; B batteries Eveready #482, Burgess #M30 or Ray-O-Vac #202 Need (2) A Types & (2) B Types. Write to: Mike Hanke, PO Box 773, Wausau, WI 54402

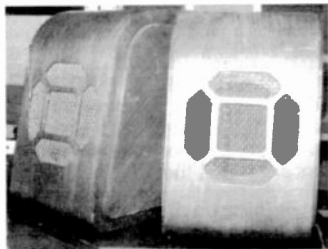
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WANTED: Federal 59 or 61, complete, original, vg-e condition. Bob Schmitz, 5925 Grace Lee Ave., Sykesville, MD 21784. (410) 795-5091 E-mail: sekndbass@aol.com

WANTED: Books: Test Equipment by John D. Link. Radio Theory Simplified, 1926, by Merle Dilston. Radio Simplified 1922, Kendall & Koehler. Practical Radio Electronics by Supreme, lessons 36 to 53. Advanced Radio Servicing by Supreme, 30 lessons. Paul M. Williams, 2364 Beaver Valley Pike, New Providence, PA 17560-9622. (717) 786-3803



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WANTED: Westinghouse Model H-164 radio chassis, with or without speaker. P.A. Kinzie, 530 Topeka St., Kingman, AZ 86401

WANTED: Paying \$1,000-\$1,500 for right Fada 182G Baby Grand and 182S Spinet piano radios. Crosley 122 Super Buddy Boy. Dayton XL-5 table-glass. Hidetoshi Wada, 1-10-23 Akasaka Chuo-ku, Fukuoka-shi 810-0042. Fax: 81-92-732-9009. E-mail: wada-hi@pi.highway.ne.jp

WANTED: Atwater Kent 337 dial pointer. Jon Kummer, 20 Harbor Rd., Port Washington, NY 11050. (516) 944-0963. E-mail: jon@pcnet.com

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Nicolo Rubini, Via Mazzini, 7-35040 Masi (PD) Italy.
E-mail: nirubini@tin.it

FOR SALE: Philco 37-650, 42-380, GE, Majestic and other consoles, most - \$60 to \$150. Malcolm D. Burdick, W1N00, 156 Station Rd., Hampton, CT 06247. (860) 456-9640, before 8:30

FOR SALE/TRADE: 1936 Weston Model 201 PF meter, 1926 Weston Model 1 DC volt meter pair - \$40. Radio/phonos: 1942 Crosley 52TP - \$20. 1940s Emerson - \$45. Tabletops: Silvertone 3026 - \$35. 1940 RCA Model 16T4 - \$45. For others: Thomas Guastella, 1633 W. 11th St., Brooklyn, NY 11223. (718) 256-8367

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FOR SALE: Precision signal generator zero Hz-240 MHz - \$40. AK horns H & M - \$140 ea. Electrical Engineers Handbook Pender & McLwain and Handbook of Applied Mathematics - \$30 ea. Riders III, IV, V - \$25 ea. Andrew Toross, 425 Old Country Rd., Orange, CT 06477. (203) 795-4523

FOR SALE: Battery eliminator for auto radios, marine equipment, 6 or 12 volts, Eico 1064. Louis L. Veltre, 643A Sherwood Ct., Lakehurst, NJ 08733-4207. (732) 657-7592

FOR SALE: (3) Hallicrafters S-41, g; Skyrider, vg - \$90; SR-10A, g - \$50; SX-104, vg - \$80. Silvertone 7224 T-O SW BC, 4 band, vg - \$100. Gilbert Simpson, 18 Beechwood Dr., Ansonia, CT 06401

FOR SALE: Zenith R7000-1 clean - \$165. Call: Carl Duck, Pratt's Electron Tubes, PO Box 1931, Hallandale, FL 33008. (305) 949-2644

FOR SALE: Aunt Sammy's Radio Recipes Revised Cookbook, 142 pp., 1931, softcover - \$13 ppd. Donald Sochurek, W191 S7500 Richdorf Dr., Muskego, WI 53150. (262) 679-0212

FOR SALE: Catalins: Fada bullet; RCA black, yellow marbling; possibly a perfect L-56 Fada; rarely seen white Plaskon Lafayette, early. Ted Chronister, 7073 Carlisle Pike #26, Carlisle, PA 17013. (717) 766-6436. E-mail: shorty@ezonline.com

FOR SALE: Selling tube stock, add shipping. Lot #1, box about (30) N.O.S. rectifier tubes, 5U4, 5AU4, 5X4, 5Y3G, etc. in cartons - \$45. Lot #2 (50) good used 4, 5, 7 pin tubes, my choice, no boxes - \$70. Lot #3 (20) hi-voltage rectifiers, N.O.S. - \$30. Lot #4 (40) audio output tubes, older, used, 41, 42, 47, 6V6G, 6F6G, 6L6G - \$79. Lots of 7 volt tubes, N.O.S. - Inquire. Lot #5 box (25) used television sweep tubes 6LB6, 6LF6, etc. - \$30. Maurer Television, 29 S. 4th St., Lebanon, PA 17042. (717) 272-2481

FOR SALE: Hallicrafters S-19R, great condition - \$125. **WANTED:** Hallicrafters SX-43. Robert Braza, W1RMB, 49 Fifth St., East Providence, RI 02914. (508) 222-5553

FOR SALE: 1933 Emerson L-557, wood table - \$100. 1936 Belmont 675 coat & vest tombstone - \$150. Bulova blue 100 clock radio - \$45. **WANTED:** 6T5 eye tube. Eric Miller, PO Box 778, Linn, MO 65051. (573) 897-4121. E-mail: E_A_Miller@hotmail.com

FOR SALE: Hundreds of antique, collectible radios, including cathedrals, tombstones, foreign, amateur, military, transistors, novelties, speakers. Also, multibands, tape recorders, televisions, transcriptions, tube hearing aids, antique medical, classic, other books. Test instruments. Polka, square dance records. Hi-fidelity, amplifiers, uniforms. For catalog, send three-stamp LSASE to: John Enigl, Sr., K9HJL, 5425 Cherry Ln., Egg Harbor, WI 54209. (920) 743-3672

FOR SALE: RCA 3RF91 AM-FM TM, vg - \$55. Hallicrafters S40A receiver & R46 spkr - \$150. Bob Fuerderer, Holly Farm, 813 Rte. 12A, Surry, NH 03431. (603) 352-3005

Collection For Sale

AK Model 5, AK Model 9, AK Model 10A, AK Model 4205, AK 3955 breadboards. BB tipped tubes, blue and gold. Marconi loose coupler, Kennedy V, Kennedy VI, Crosley Pup, Radiola IIIA, Radiola V crystal, Radio Aeriola Grand RG, Howe crystal, AK speakers M, H, L, E, E2. UZ1320 (2), other horn speakers (2), tube tester, (25) other battery and electric early radios. All radios are very good to mint condition.

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WANTED: Chassis or complete Buddy Boy. Arnaud Vrand, Lauwestraat 67, B-8560 Belgium. Fax: 09-32-56-42-63-30. E-mail: arv@unicall.be

WANTED: The following large size Crosley cathedrals. Models 130, 170, 171. Also Tenstrike. Ronnie Kaczmar, 5747 Williamson, Dearborn, MI 48126. (313) 582-4348

WANTED: Radios with chrome grilles or trim, tiny 1930s tube radios, miniature cathedrals. Jay Malkin, 1250 Galapago #206, Denver, CO 80204. (303) 623-6451

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

WANTED: Old guitars/guitar amps, effects pedals, Gibson, Fender, Vox, Univibe, Marshall, Gretsch, etc. Sonny Goldson, 1413 Magnolia Ln., Midwest City, OK 73110. (405) 737-3312. Fax: 3355

WANTED: 1920s RCA or Cunningham tube manuals. Would also appreciate quality photocopies. Dennis Craft, 10513 E. Clinton St., Scottsdale, AZ 85259. (602) 860-8951. E-mail: dcraft@uswest.net

WANTED: Jerrold TV booster amplifier using a 6AK5 and produced about 1948. Frank Baxter, 111 Grizzly Bear Path, Ormond Beach, FL 32174. E-mail: tmcfcb@n-center.com

WANTED: Philco 89C '40, Admiral B, 29-G5. Ichiro Yamada, 10-21 Chiyodadai-cho, Kawachi, Nagano-shi, Osaka, Japan 586-0027. Ph./fax: 011-81-721-52-4695, mid./eve., local. E-mail: yamada1r@silver.ocn.ne.jp

WANTED: Wood case electric or control room clock, Biddle instruments. Henry Weiland, 8946 West Grantosa Dr., Milwaukee, WI 53225. (414) 463-4681

WANTED: Unbuilt or partially assembled Heathkits and Knight kits. Gene Peroni, Box 7164, St. Davids, PA 19087-7164. (610) 293-2421

WANTED: RCA TV flyback transformer, part no. 102132; RCA radio R-7 escutcheon; Guild Spice Chest drawers; Philco 51 speaker. Or will buy junkers. Charles Phillips, 8607 Rembrandt Cir., Newark, DE 19702. (302) 832-9592

WANTED: I will pay extra high for Western Electric 596, 597, TA 4171, TA 7257. Vincent Gallo, 532 LaGuardia Pl. #600, New York, NY 10012. (212) 274-0432

WANTED: Radio chassis/speaker for Stewart Warner R 1264 A, or chassis R126. Mr. & Mrs. L. M. Page, 4138 North Highway 41, Mullins, SC 29574-9359. (843) 464-6887. E-mail: Pagehaven@aol.com

WANTED: Information, schematic or finished unit for Antique Electronic Supply kit K-167 or P-M167, battery powered wireless transmitter. Richard Dzick, 31572 Juniper Ln., Warren, MI 48093. (810) 268-4671. E-mail: n8mqu@aol.com

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WANTED: 1940s televisions: Farnsworth GV260, Belmont 22AX21, Dumont Clifton, Cleveview, Garod, Automatic cabinet. Ed Dessau, 40 Verna Rd., Monroe, CT 06468. (203) 452-1981. E-mail: ekdessau@aol.com

WANTED: Kolster speaker with claw feet to match Kolster Model K-28 radio. Blue tuning knob for Arvin 243T. Jim Ligouri, 7 Sycamore Ct., Atkinson, NH 03811. (603) 362-5712. E-mail: Jjligouri@aol.com

WANTED: Tube socket adapter kit MX949U. Howard E. Sutton, 1163 Furman Dr., Sumter, SC 29154. (803) 494-2888. E-mail: hesutton@ftc-1.net

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FOR SALE: Philco 39-25 slant front table radio, recapped & working - \$125. Ken Lemke, 1452 Fall Crk Rd., Canisteo, NY 14823. (607) 698-4938

FOR SALE: Tubed stereo amplifier. Harman Kardon A-300 Award Series w/wood case, working good - \$45 + shipping. R.G. Purcell, 4473 W. 136th St., Cleveland, OH 44135. (216) 251-6511

FOR SALE: Victor radio R-52. Airline 93BR-715A. GE K80. Screen grid 46. Philco 37-620. Wayne R. Ader, 2023 S. Quanicasssee Rd., Reese, MI 48757. (517) 868-4511

FOR SALE: ARRL Handbook 1938 - \$15. Baldwin headphones Type C - \$22. 6A3s used - \$5 ea. Plus S/H. Ed Povrnjak, 9606 Biddulph Rd., Cleveland, OH 44144-3015. (216) 661-0032

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FOR SALE: Zenith 10XT26 4-speed solid-state stereo phono with barrel spkrs, mid 60s - Best Offer. Fleetwood globe transistor six - \$75. Sound Design 8-track player with (2) spkrs & cassette adapter - \$30. Joe Svihel, 17227 Co. Rd. 54, Avon, MN 56310. (320) 356-7601

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FOR SALE: Crystal radio kits, complete with face panel and base board, 365 variable capacitor, large prewound coil, and many other parts for an old style crystal radio, remit - \$19.50. Carl & Grace Ent., 5636 Romeyn, Detroit, MI 48209

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FOR SALE: Used tested tubes: 24A - \$3.75; 26 - \$5.60; 27 - \$2.20; 80 - \$7.15. James R. Lopaz, 5467S 975E, Ogden, UT 84405. (602) 617-9739

FOR SALE: Sparton Jr., restored and refinished - \$295. Grunow 460 tombstone, restored - \$95. Emerson CS, trapezoid shaped, table model, solid walnut, about 1929 vintage - \$100. Airline, brn. Bakelite, 1 1/2V, farm set works - \$35. The following farm table model sets restored and refinished: Grunow 502 tombstone - \$85; Coronado 806A small wood - \$50; Howard 920 small blk. Bakelite - \$45; Emerson AJ149 - \$60. Can supply battery eliminators for above for - \$35 ea. Joe Svihel, 17227 Co. Rd. 54, Avon, MN 56310. (320) 356-7601

FOR SALE: Hallicrafters Echophone EC-1 8 plus - \$75. National NC-60 Special 9 - \$65. Joel Levy, 8 Waterloo, Morris Plains, NJ 07950. (973) 285-0233

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RADIOFEST XIX

A new show for the New Millennium!

August 4, 5, 6, 2000

Ramada Hotel* Elgin, IL



In keeping with these exciting new times, the Antique Radio Club of Illinois (ARCI) is reinventing Radiofest XIX and introducing some new and exciting concepts.

- The show will now be on Friday, Saturday and Sunday
- There will be no minimum 3-night stay at the hotel
- Selling will begin at 6:00 am on Friday
- A public appraisal "fair" will be offered and the public will be allowed to enter items into the auction
- The radio auction will be moved to noon on Saturday

We are keeping some of the old ideas as well.

- The display room will be focusing on Motorola and hi-fi equipment (tentative)
- Presentations throughout the day Friday and Saturday will continue
- The popular old radio contest will remain (see details below)
- The Carolyn Knipfel Awards Banquet will be held on Friday night
- The donation auction will be held on Sunday morning

In addition we are updating the pricing structure to make it easier to understand and fairer to those sellers wanting more than one space. Details are still being worked out so watch the March 2000 edition of A.R.C. for the registration form and pricing.

We are excited about the new Radiofest XIX for 2000. See you there!

OLD RADIO CONTEST CATEGORIES

- | | |
|---|---|
| 1) Crystal & Battery Sets 1928 & Before
(includes amplifiers, home brew, & kit sets) | 6) Novelty Radios (tube type or transistor) |
| 2) Post 1928 AC Sets (includes cathedrals,
tombstones, etc.) | 7) Communications Receivers
(WWII or before) |
| 3) Horns, Cones & Speakers | 8) Consoles & Chairside |
| 4) Plastic & Bakelite Radios | 9) TV Sets & related items |
| 5) Transistor Radios | 10) Open Category (any radio or radio-related
item not included in other categories) |

A "non contest" or "display only" table will be included. It is intended for those wishing to display an item to share with other collectors.

- Items which have previously won an award in an ARCI contest may not be entered.
- Only one entry per person per category will be allowed.
- Prizes include a \$25 cash award for the 1st Place winners in each category and \$100 cash award for the "Dr. Ralph Muchow Award" (Best of Show).

Questions about the contest can be directed to the club at the address below.

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For more information regarding Radiofest XIX, contact:

A.R.C.I., P.O. Box 1139, LaGrange Park, IL 60526 — E-mail: arc31280@aol.com

FOR SALE: Zenith Trans-Oceanic G500 made only one year - \$155 plus shipping. Jim Montague, 1907 S. Stanley Ln., Spokane, WA 99212. (509) 535-9576

FOR SALE: 1939 RCA 96T5 AM/SW table, wood cabinet, works - \$30 plus ship. Jerry Wieland, 780 Charleston Ln., Hoffman Estates, IL 60195. (847) 934-1790. E-mail: jwieland@owc.net

FOR SALE: Catalin radios: Emerson BT-245 yellow/maroon trim, excellent - \$2,750; Motorola circle grille, lemon yellow bottom screw repair, beautiful! - \$2,750; Fada Temple yellow/red, excellent! - \$1,350. Call: Mark Sack, 8 Metacom Dr., Simsbury, CT 06070. (860) 559-9491. E-mail: mbsjss@aol.com

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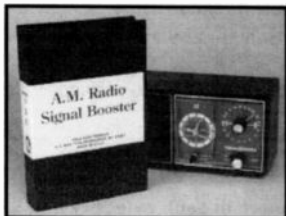
FOR SALE: Precision tube tester - \$35. **WANTED:** Simpson tube tester Model 555 and Fairbanks Morse Model 91. Leon Gann, 1134 E. 50 Pl. N, Tulsa, OK 74126. (918) 425-3590

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FOR SALE: Philco Boomerang style Radio-RP, 49-1401, Baby Boom Vol. 4, p. 174; five tubes, N.O.S. set for Zenith Trans-O; Motorola VT71M 7-inch TV, good cabinet, restored chassis, no knobs or CRT; Yamaha MX200-12 mixing console; Otari MX5050 2-track recorder. Charles Harper, 2000 Jackstown Rd., Paris, KY 40361. (606) 484-9393. E-mail: Charper@kyk.net

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FOR SALE: Electro-Voice Model 664 microphone with heavy duty desk stand, cables and connectors, very good condition - \$90 plus \$10 shipping. Bob Eckert, 133 East 7th St., Clifton, NJ 07011-1104. (973) 340-0579

FOR SALE: Schematics for Neumann & AKG mics, 15-page set - \$16.99 ppd. Zenith 15S-373, exc - \$1,500. Dozens of old radios & mics on our website at www.garm.com or call. Tommy C. Meers, 773 Carlisle Club Dr., Stone Mountain, GA 30083. (404) 297-0557, lv. msg. E-mail: tom@garm.com

FOR SALE: 15 bands Sony ICF 7700 dig. comp. SW radio with AC adapter and manual, very good condition - \$65 plus shipping. Arnold Giron, PO Box 862533, Los Angeles, CA 90086. (323) 221-9211

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FOR SALE: Rare Swan MK-1 linear amp, mint - \$600. RME-50 w/speaker - \$275. Two meter Gonset Comm IV, xcvr - \$100. Walter Ashe catalogs, 1959 & 1957 - \$20 ea. Beautiful Fada 1930s 60" x 40", folds up, cardboard window display - \$125. Howard 450A rcvr - \$450. **WANTED:** Speaker for NC-100X; directional bridge coupler for J.W. Miller auto-track 2500; for SX-73, band select knob, bottom covers, name plates and pull handles. Thanks! Keith Perry, K7PSZ, 384 S. 48th St., Springfield, OR 97478. (541) 726-1512, home. (541) 995-1172, work

FOR SALE: Crystal rocket radio N.I.B. - \$45. Hallicrafters SX-110 shortwave receiver - \$90. Shipping extra. Steve Whited, 3637 West 71st St., Indianapolis, IN 46268. (317) 298-9967

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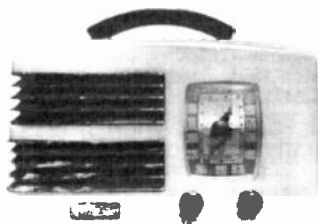
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WANTED: Working Sodian S-13 tube & UV199s (2), cabinet for Sodian set, written data on Sodian sets. Stu Mount, W2AO, 35 Granc St., Highland, NY 12528. (914) 691-7957

WANTED: Detrola Pee Wee (wood) back tracing; Silvertone 1152 Repwood cathedral. Bob Slagle, PO Box 7203, Colorado Springs, CO 80933. (719) 635-6208



WANTED: Symphony and Detrola Catalins. If only you knew how necessary these radios are to my very existence. Gee, if you knew that you'd probably never call or hope I'd wither away ending once and for all these stupid ads. Please write or call collect: Rain Butignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

WANTED: Airline 1936 Model 62-203 or 62-205 console farm set. Dennis Craft, 10513 E. Clinton St., Scottsdale, AZ 85259. (602) 860-8951. E-mail: dcraft@uswest.net

WANTED: A copy of the booklet that came with the Quaker Oats crystal set. Robert Stapleford, 1800 S.W. Randolph Ave., Topeka, KS 66604-3158

WANTED: Parts set for SLRM receiver. Call or write: Charles Fler, 1163 Hawksbill Ln., Summerland Key, FL 33042-3159. (305) 745-1801

WANTED: Disc recording lathe (overhead) similar to Allied or (under) like Presto, with/without head. No Wilcox-Gay. Send complete description. Charles Graham, W1HF1, Fieldwood Dr., Bedford Hills, NY 10507. (914) 666-4523, anytime

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FOR SALE: Ivory mike radio, see web photo at <http://www.interestingoldjunk.com> - \$200. James J. McGrath, W2IOJ, 2 Centerview Ln., West Seneca, NY 14224-2124. (716) 675-0160. E-mail: w2ioj@yahoo.com

FOR SALE: Rack mount, GI, Collins 51J; Navy, by Emerson, R B Z, missing mike; Wells Gardner military TRF low frequency receiver, 15 to 600 Kc. Telmer Olson, W0YPT, 304 West Iowa St., Monona, IA 52159. (319) 539-2315

FOR SALE: Min. N.I.B. tubes 2, 3, 4, 5, 7, 8, 9, 10V - \$8/20 plus shipping. Choice of voltages only. Harry Pewowaruk, 1535 N. 8th Ave., St. Cloud, MN 56303. (320) 252-9910. E-mail: HPewowaruk@aol.com

FOR SALE: Addison, Fada, DeWald Catalins; also AK, Crosley. See them at <http://www.catalinradio.homepage.com>. No calls please. J. Finkelstein, 63 Cedar Hill Ln., Media, PA 19063. E-mail: evanor@home.com

FOR SALE: Lunalit, only one known (Plate 612, Bunis & Breed's novelty radios guide) - \$300. Gerald Schneider, 3101 Blueford Rd., Kensington, MD 20895-2726. (301) 929-8593

FOR SALE: Collins mechanical filter brochure - \$20. Atwater Kent auto ignition coil/switch - \$50. Mike Grimes, K5MLG, 3805 Appomattox Cir., Plano, TX 75023. (972) 876-6373

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FOR SALE: Zenith Poketradio 4K600 hard to find - \$125 plus UPS. Claude Chafin, NØFMO, 4223 E. 42nd Way, Independence, MO 64055. (816) 478-4518

FOR SALE: Barzilay walnut stereo: w/ (2) 15" speaker cabinets, Scott 296, Fisher FM 200B, Collaro phono, velour doors. Francis H. Yonker, PE, W2IBH, 1229 Inverary Pl., State College, PA 16801. (814) 867-1400

FOR SALE: (70) local tubes, (25) N.O.S., others used - \$50 ppd. R. J. Eastwick, W2RJE, 400 N. Haddon Ave., Unit 109, Haddonfield, NJ 08033. (856) 429-2477

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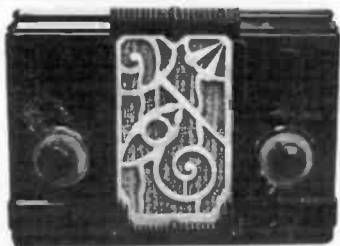


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WANTED: An escutcheon for a Philco Model 89-B radio. Paul M. Williams, 2364 Beaver Valley Pike, New Providence, PA 17560-9622. (717) 786-3803



WANTED: Kadette pictured, Detrola, RCA, Air King, etc. prewar plastics. I am new to the field of collecting but have plenty of money to live with big mistakes. Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

WANTED: Payphones, 3 slot, Automatic Electric, Western Electric, any color. I pay highest prices. Stanley Schreier, 350 Hendrickson Ave., Lynbrook, NY 11563. (516) 887-4966. Fax: (516) 887-4780

WANTED: Construction plans, blueprints, photographs, circuits, books and papers about antique or unusual geophysical prospecting units and treasure finders especially as advertised in 1930-1940 radio and electronics magazines. Terms used for advertised units included radio balance, balanced loop, Hughes inductance balance, radiodyne prospector, metal and pipe locator, bomb detector and variable inductance monitor. Articles appearing in popular U.S. journals and magazines are not needed. Bart Henson, 7608 Teal Dr. SW, Huntsville, AL 35802. E-mail: barth@hiwaay.net

WANTED: Power supply for American Bosch Model 29 (Bunis 2, p. 20), like Model 28. Paul Cowlshaw, 1424 25th St., Ogden, UT 84401. (801) 393-8703

WANTED: 16-inch radio transcriptions, big records, by Sammy Kaye (Sunday Serenade) & Jan Garber Orchestras. Robert DeMars, 5034 Rosen Blvd., Boynton Beach, FL 33437. (561) 832-0171

WANTED: Electron tubes, ball bearings radio & aircraft receivers & transmitters, connectors, lamps, relays, switches, breakers. Hy Ness Company, 709B Delair Rd., Cranbury, NJ 08512-4212. (609) 395-1116. Fax: (609) 395-1117

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WANTED: Service manuals for RCA Radiomarine direction finder Model AR8712 and BC-314 receiver. Al Kaiser, 713 Marlowe Rd., Cherry Hill, NJ 08003-1551. (856) 424-5387

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WANTED: Schematic for Raytheon GM114 marine direction finding radio. David Wunsch, 111 Louise Rd., Belmont, MA 02478. (617) 489-0079. E-mail: dwunsch@cs.uml.edu

WANTED: Unusual early transistor radios by General, Yaou, others not pictured/listed in books. David Mednick, 10 Doe Dr., Wesley Hills, NY 10901-2302. (914) 354-5041. E-mail: davemed@acd-pc.com

WANTED: Antique medical, scientific devices, fans, Deco clocks, radios, and horn phonographs. Richard Cane, 1333 N.W. 127th Dr., Sunrise, FL 33323. (954) 846-7116. E-mail: rbcane@sprynet.com

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

WANTED: Yaesu FP-800HD P/S. Reasonable cash price or can swap FP-757 P/S plus difference. Or equipment, meters, parts from my list. SASE. George H. Goldstone, W8AP, 1010 Burnham, Bloomfield Hills, MI 48304. (248) 642-7673

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FOR SALE: (1) Edison cyl. record player table model Amberola 50-SM-56166 - \$750. (3) Philco 89 chassis (2) complete, (1) for parts - \$60 all. + S/H. Carlos Gimenez, 15901 Shamrock Dr., Fort Myers, FL 33912. (941) 482-0198

FOR SALE: Radiolas 16 & 17 and (2) 100A speakers from mountain barn - \$100 + ship or separate prices. Cleo A. McAlexander, Box 4, Stanleystown, VA 24168. (540) 629-2972. E-mail: cmalexander@stanleyfurniture.com

FOR SALE: Tandberg 64 reel-to-reel recorder for parts, MT, nice cabinet - \$20. Jim Clifford, KE4DSP, 108 Bayfield Dr., Brandon, FL 33511. (813) 654-7531. E-mail: j.c.clifford@juno.com

FOR SALE/TRADE: Novelty windmill radio, wood & plastic exc playing condition - \$90 plus shipping. Paul Fulton, 711 Jacquelyn Rd., Westwood, NJ 07675. (201) 664-5260. E-mail: pfulty@aol.com

FOR SALE: General Radio working #631B Strobotac and repro manual, flashing speed: 600 to 14,400 per minute - \$75 ppd. Hugo Kann, 2320 King's Ct., Marion, IA 52302. (319) 377-1090, evenings. E-mail: hmkann@home.com

FOR SALE: #623 Tungar bulb used - \$5 plus postage. Jon Andreasen, PO Box 22, Newton, NJ 07860. (973) 579-6261, 6 to 9 pm Eastern. E-mail: jda@nac.net

FOR SALE: Sylvania equipment brochures, five in all. Scope, sig. gen. - \$12 shipped. Leroy Marshall, 1178 Foxboro Ln., Bartlett, IL 60103. (630) 483-8833

FOR SALE: Sansui 1000A receiver - \$100. Stromberg-Carlson 105 PA - Free. Both pick-up only. Don Behrens, 2417 W. Acacia Rd., Glendale, WI 53209. (414) 228-1980

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FOR SALE: Hammarlund HQ105TR receiver - \$140. Local pick-up preferred. Bruce Mueller, 730 E. Harmony Ln., Fullerton, CA 92831

FOR SALE: Coronado leatherette tube portable 15RA4-43-9876C 117VAC/DC/batt. - \$22 delivered UPS. SASE list. Tom Tetzlaff, 23 Nelson Dr., Silver Bay, MN 55614. (218) 226-4291. E-mail: catt@lakenet.com

FOR SALE: Radiotron Designer's Handbook, 4th Ed., very good - \$80 plus postage. Many other good radio, wireless, telegraphy books, check the Electro-Technology catalog on our website at <http://www.abebooks.com/home/oldauthors>. Roger Hart, VA30A, Old Authors Bookshop, PO Box 403, Morrisburg, Ontario, Canada K0C 1X0. (613) 543-3337. E-mail: authors@mornet.on.ca

FOR SALE: Early radio & collector tubes: new and used globe and ST 4, 5, 6, & 7 pin. Special: good used Kellogg 401 - \$20; and Raytheon BH tipped - \$5 ea. See www.fathauer.com or write for catalog. George H. Fathauer & Assoc., 688 W. First St., Ste. 4, Tempe, AZ 85281. (480) 968-7686. E-mail: fathauer@home.com



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FOR SALE: Too many tubes, radios, books, parts. LSASE. WANTED: Mystery chassis (A.R.C. Sept. 1998, p. 9). W.F. Horn, 13110 Marsh Rd., Bealeton, VA 22712. E-mail: wehcoll@tidalwave.net

FOR SALE: '31 GE S22 Junior w/brass handle, elec. restrd, good bouquet grille cloth, exc orig. finish - \$235. '41 Silvertone 3111 Midget Bakelite, repaint, nice, (same as 7000 p. 181 M.A.J.A. I) - \$60. Ampex 900 auto rev. R/R deck - \$75. Fisher 400 FM rcvr, repaired - \$135. Philco 40-90 Bakelite farm w/one tube pwr supply, nice orig. finish, elec. restrd - \$60. Mike Biddison, 15 Palomino Ct., Chico, CA 95928. (530) 894-2800

FOR SALE: 300-400 N.O.S. old style resistors in 1943 Allied Radio box. N.O.S. RayDyne portable windup phono, museum condition. Irv Sanders, 242 Hunter Ln., Harrisburg, PA 17112. (717) 469-2185

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FOR SALE: Dynaco ST-70 stereo amplifier, very clean, works well - \$350. Ben Deovlet, W6FDU, 933 Robin Ln., Campbell, CA 95008. E-mail: w6fdu@aol.com

FOR SALE: Brunswick 78 rpm record player (Panatropo Exponential Type #272191) - \$150. GE Model J805 radio - \$60. Marvin L. Honeycutt, 1303 Minna St., San Francisco, CA 94103. (415) 861-5066. E-mail: oldtags1@earthlink.net

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FOR SALE: Antique radio schematics plus data still only - \$3 postpaid. Joseph R. Forth, 321 Long Vue Acres, Wheeling, WV 26003. Ph./fax: (304) 277-3154. E-mail: wa2trt@juno.com

FOR SALE: WD40 novelty radio gift pack with can of WD40 - \$35 with shipping. George Stevens, 313 N.E. 151st St., Seattle, WA 98155. (206) 364-0227. E-mail: steveqr@scn.org

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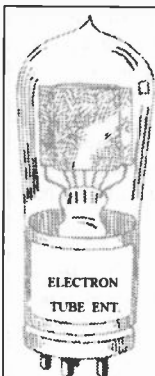
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FOR SALE: Principles of Radio, Keith Henney 3rd edition, 1938. 495 pp, good condition - \$15 + shipping. John R. Tebeau, 2572 Oak Villa Rd., Thomson, GA 30824. (706) 595-8211. E-mail: Tebeauj@aol.com

FOR SALE: Triplett 631VTVM-VOM - \$50; Powerstat 175 w. 110-220v - \$75; Philco 90 cathedral, vg performance, needs cabinet veneer only - \$300; Detrola 568 chrome front - \$50; DuMont (2) lace front 1 with clock - \$100, other - \$75; RCA 75X11 red oriental, works, needs touchup - \$100; Hammond power transformer N.I.B. 169VS 175w. line isolating - \$45. Sid Greenspan, 500 S. Ocean Blvd., Boca Raton, FL 33432. (561) 368-2019

FOR SALE: 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

FOR SALE: Have many many transistor radios for sale. Will sell one or all. Doug Ferrero, W8YNZ, 70173 Hillside Ct., Romeo, MI 48065. (810) 336-0120. E-mail: ynzdsd@bignet.net



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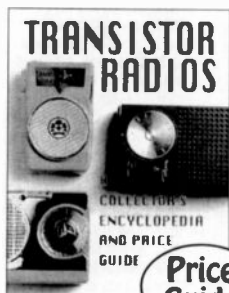
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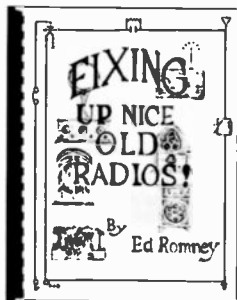
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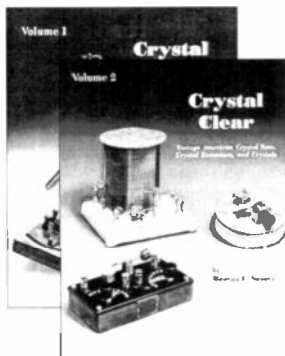
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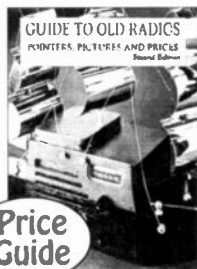


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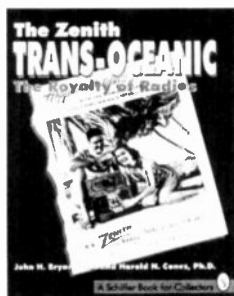


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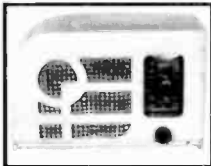
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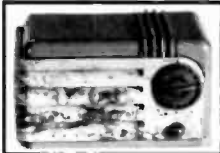
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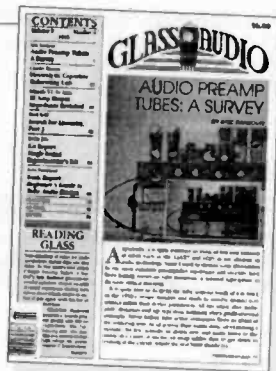
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 MAROON & YELLOW \$2,200.00, YELLOW & BLUE \$2,500.00, YELLOW & RED \$3,100.00,
 EMERALD GREEN & YELLOW \$7,000.00, BLUE & YELLOW \$7,000.00
 FADA 115, 116 & 1000 ALL YELLOW \$700.00, MAROON & YELLOW \$950.00
 YELLOW & RED \$1,150.00, PEA GREEN \$1,300.00, BLUE & YELLOW \$2,550.00
 GAROD 6AU1 MAROON \$675.00, YELLOW & RED 1,350.00,
 RED & YELLOW \$1,450.00
 HAISON ANY COLOR \$1,500.00 TO \$5,000.00
 MOTOROLA 50XC ALL YELLOW \$1,750, BROWN & TORT \$2,750.00,
 RED & YELLOW \$6,000.00, GREEN & YELLOW \$6,250.00,
 MOTOROLA 52 YELLOW & TORT \$1,500.00, MAROON & YELLOW \$1,850.00,
 GREEN & YELLOW \$2,900.00
 SONORA KM ANY COLOR \$1,600.00,
 SENTINEL 284 WAVEY GRILL YELLOW \$700.00, SAND 950.00,
 RED 1,450.00, BLUE 6,500.00
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 YELLOW \$425.00, RED \$1,200.00
 EMERSON AU 190 & BT 245 YELLOW \$1,300.00, GREEN \$2,500.00,
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 EMERALD GREEN & YELLOW \$7,000.00, BLUE & YELLOW \$7,000.00,
 FADA 115, 116 & 1000 ALL YELLOW \$700.00, MAROON & YELLOW \$950.00,
 YELLOW & RED \$1,150.00, PEA GREEN \$1,300.00, BLUE & YELLOW \$2,550.00,
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 YELLOW & RED 1,350.00,
 RED & YELLOW \$1,450.00
HAISON ANY COLOR \$1,500.00 TO \$5,000.00
 MOTOROLA 50XC ALL YELLOW \$1,750, BROWN & TORT \$2,750.00,
 RED & YELLOW \$6,000.00, GREEN & YELLOW \$6,250.00,
 MOTOROLA 52 YELLOW & TORT \$1,500.00, MAROON & YELLOW \$1,850.00,
 GREEN & YELLOW \$2,900.00
 SONORA KM ANY COLOR \$1,600.00,
 SENTINEL 284 WAVEY GRILL YELLOW \$700.00, SAND 950.00,
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WANTED: Airline 62-351 cabinet, pointer and dia assy. for Emerson 539, cabinet for Garod 5A-2, (2) pushbuttons for Coronado 803, top handle and escutcheon for GE-522, escutcheon for Philco 89. Tony LaMartina, 13325 W. Dahlia Dr., Boise, ID 83713

WANTED: Spartan mirror in lid TV or hex control knobs. Shaw TV (1952) with doors. Fred Ringwald, 2909-A Mesa Rd., Colorado Springs, CO 80904. E-mail: fred.ringwald@wcom.com

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WANTED: Cabinet for a Crosley 50. Chasses as follow: Aeriola Senior, Motorola 51C or 52. Richard B. Jehlik, 14441 N. River Rd., Omaha, NE 68112. (402) 457-4604, after 9 pm. E-mail: rjehlik@creighton.edu

WANTED: Zenith Trans-Oceanic R1000M transistor military radio. John Filippelli, 7950 Tamoshanter, Glen Burnie, MD 21061. (410) 760-2265. E-mail: tea380@aol.com

WANTED: \$\$\$ for RCA CT-100, 21-CT-662U, need not work/complete, other 1950s TVs. Color TVs, Kevin Ross, 909 Martin Cir., #203, Petaluma, CA 94952. (707) 769-8921, after 7 pm PST

WANTED: Radio Rex from the 1920s. Ed Bell, 5311 Woodsdale Rd., Raleigh, NC 27606. Ph./fax: (919) 851-1517. E-mail: ekbell@mindspring.com

WANTED: Western Electric 216A tubes for restoration project. Can anyone out there help me? Tim James, 17365 S.E. Walta Vista Dr., Oak Grove, OR 97267. (503) 653-0407

WANTED: 6T5 tube in good condition. Sandy Gerli, AC1Y, 500 Country Club Rd., Avon, CT 06001. (860) 675-5566

WANTED: Need instruction manual for Morris coil winder. Photocopy OK. Tod Prowell, W3URG, 413 North York Rd., Mechanicsburg, PA 17055. (717) 697-5227

WANTED: Grunow 8B4 speaker. Cabinets for: Grunow 654. RCA 86T1, RCA 811K, Majestic 44 chassis, radio station verification (QSL) cards, letterheads, etc. prior to 1940. Radio Retailing magazine (1925-1930). Radio Today magazine (1935-1941). Radio Weekly, Talking Machine & Radio Journal. Majestic, Grunow & Rogers-Majestic paper. Can pick up on the way to Charlotte. Chip Taylor, 2223 53rd St., Sarasota, FL 34234. (941) 713-6000. E-mail: chip100@gte.net

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WANTED: Mini reel wire and tape recorders for cash or my nice transistor radios, crystal sets. Jon Golden, Box 5077, Wayland, MA 01778. (508) 653-4140. E-mail: 3dman@ziplink.net



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WANTED: Pot metal capacitor for Geo. Walker multi-unit from Work-Rite. Michael Cran, 3 Hillside Ave., Harveys Lake, PA 18618-9782. E-mail: mcra1952@aol.com

WANTED: I am looking for the book titled Simplified Radio Servicing By Comparison Method, published by M.N. Beitman in the early to mid 40s. It is an 8 1/2 x 11 with soft covers. Also wanted old style body-end-dot color coded resistors in 1W and 2W. M. Franzen, 3618 Effie St., Los Angeles, CA 90026. E-mail: mfranzen@neteze.com



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.022-630-AL	.022	\$ 7.00	28c
.033-630-AL	.033	\$ 7.25	29c
.047-630-AL	.047	\$ 7.50	30c
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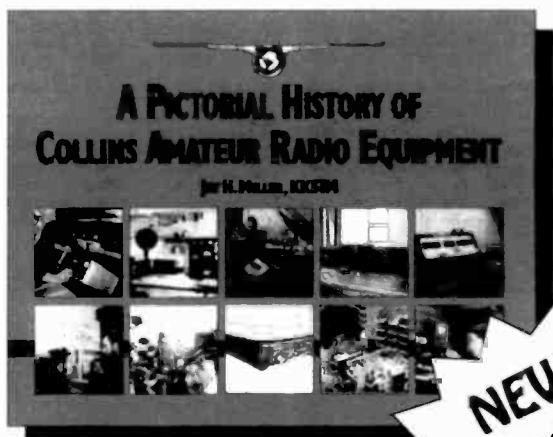
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(Jan-00)

FOR SALE: Zeniths. T-Os: Y-600 with manuals, plays, exc - \$145; T-600 vg - \$120. A835 wood table vg - \$30. 5F166 console vg - \$130, pu. Buzz Miller, 725 Mt. Rock Rd., Carlisle, PA 17013. (717) 776-3279. E-mail: buzzm@sprintmail.com

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FOR SALE: Kikusui COS6100M manual - \$40. Pace desolder/rework units: PP8087U - \$70; PPS101 - \$60. Robert Morrison, 10238 117th Ln., Live Oak, FL 32060. (904) 362-1521. E-mail: rrmorison@suwanneevalley.net

FOR SALE: Realistic PRO-2004 service manual - \$12. 1977 U.S. radio amateur callbook - \$5. Dave Minchella, 80 N. Campfire Rd., Henrietta, NY 14467. (716) 359-3337. E-mail: djmradionut@juno.com

FOR SALE: RCA beat frequency oscillator #IMX-134A - \$50. Heath FET transistor checker IT-3120 - \$55. Heath VTVM #IM-13 - \$29.95. Ernest Odeneal, 2710 Lee, Greenville, TX 75401. (903) 455-2113 or 455-5788. E-mail: odeneal@webwide.net

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FOR SALE: National SW3 good - \$350. FR110 needs some work - \$150. Both plus shipping. Sid Swedenski, 142 Franklin Dr., Yorkton, Saskatchewan, Canada S3N 2G6. (306) 645-4491. E-mail: s.swed@sk.sympatico.ca

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7027A	\$25 00	7308GP (Gold Pin)	\$8 00	6KN6	\$6 00		
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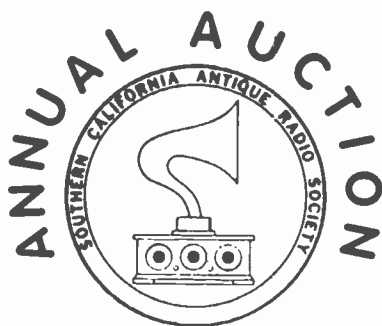
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FOR SALE: Crosley Model 9-122W, cabinet original paint nice, with back, one knob missing. Sentinel Model 724E-1745, 6D6 tube missing, power transformer replaced, no back, 6G5 eye tube missing, dial, grille & cabinet front & side very nice, top is so-so, dark trim needs repainting. Kellogg candlestick phone, rough, 1906 pat. date, coil & receiver hook switch in base, voice cone missing. Musicaire wood AM radio original grey paint, no back. Silvertone 6002, 4-tube metal midget, no pointer knob. Emerson brown Bakelite, repairable crack at vol. control extends across base, dial & grille trim OK. Gloritone Model 27, upside down chassis, good 45 output tube. Needs dial escutcheon. Airline 6 pushbutton and eye tube radio, 2 bad push buttons, 1/4 inch drilled hole on back near top, 6 volt battery home radio? Belmont Model 93BR-564A, dial trim cracked, cabinet front and ends excellent, with so-so 1266 vibrator, Operadio ten station intercom, historical item, cabinet quite good. Welch Scientific meter long laboratory resistance divider, adjustable, nice scale divider, complete. All items require payment up front. All shipping on receipt of checks to cover item and shipping cost. Frontier Capacitor, Everett Hoard, Box 218, Lehr, ND 58460. (701) 378-2341. Fax: (701) 378-2551. Toll free (877) 372-2341. Voice mail on at all times. E-mail: frntcap@bektel.com

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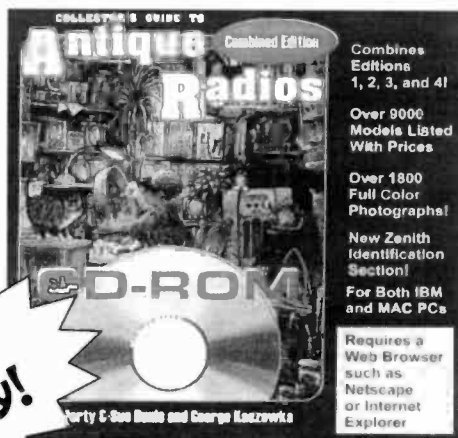
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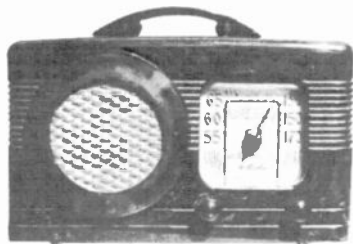
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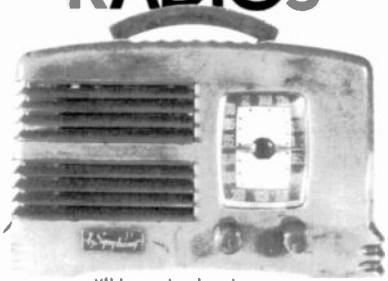
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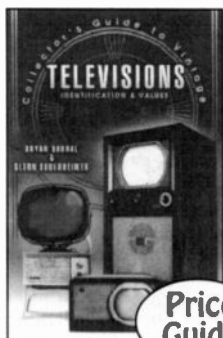
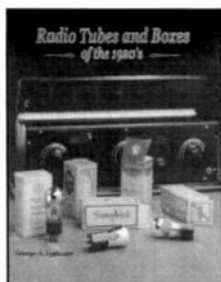
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(Jan-00)

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(Jan-00)

FOR SALE: EICO #232 VTVM - \$15; #235 VTVM - \$20; #950B comparator bridge - \$20 + UPS. George Wright, 4181 Enders Way, Doylestown, PA 18901-5611. (215) 340-0413. E-mail: gwright@pennet.com

FOR SALE: RCA Model AR 812 very clean w/tubes as found cond. - \$375. Victor Victrola Model VV-50 first portable sold by Victor exc. cond. - \$350. Edison Standard banner decal 2 min., repro hom - \$725. When you visit NYC stop by the shop we have lots more for sale. Send us your want lists perhaps we have what you are looking for in stock. We are always looking to purchase from single items to fine collections or accumulations of stuff, let us know what you have. For more info contact: Waves, 110 W. 25 St. 10th floor of the Chelsea Antiques Building between 6th Ave. and 7th Ave. Tel: (212) 989-9284. Fax: (201) 461-7121. E-mail: c1wave@aol.com. Shop hrs are from 12-6 Mon.-Fri., 10-6 Sat. & Sun.

FOR SALE: Admiral Beetle beautiful color specs excellent original; Triumph bowling ball 1936; Horn spkr like Jan. A.R.C. 2000 cover; Echophone with 3 exposed tubes; RCA 1432A 15" field coil spkr; RCA transistor #8BT-8FE pink/ivory exc; Regency TR1 ivory w/leather case etc; Garod 5A2 blue/white original; General 5 tube tombstone w/tubes w/beautiful rosette knobs; Emerson table model beaut. Ingraham cabinet, big dial complete original; Emerson 572 black big gold dial complete orig. exc; 16" turq. Emerson 1956 orig. w/built-in antenna works - \$50; 17" Predicta beige - \$175. Call: Bill Kalcik, 3714 S. Lombard, Berwyn, IL 60402. (708) 788-9022, after 9 pm CST

FOR SALE: GMC factory 1967 Chevrolet 8-track tape player Model 7300481, untested - \$85 + shipping. Don Mier, 4009 N. Foxdale Ave., Covina, CA 91722. (626) 338-9225

FOR SALE: A large number of radio and electronic books and magazines. Send LSASE for free list. Gerald Scott, N7WVY, PO Box 2731, Elko, NV 89803

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FOR SALE: Heathkit IT17 tube tester, ID22 electronic switch, VC3 voltage calibrator, manuals included - \$40 each; all 3 - \$100; shipping extra. Richard Flaws, 212 Mondovi Dr., Oswego, IL 60543. (630) 554-9207

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FOR SALE: 1938 Zenith 12 tube console Model 12A265AT CH1204A, good cabinet, dull finish, plays like new, original grille-cloth - \$800. Can deliver to most Mid-West summer meets. Arie E. Breed, 1595 N. Van Buren, Ottumwa, IA 52501-2144. (515) 682-6925. E-mail: abreed@lisco.com

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FOR SALE: Conrac/Fleetwood Model 800 classic 21" TV, remote tuner, cabinets, excellent with documentation, unused since 1960! - \$200/BO, pickup only. Max Strange, 11710 Wayneridge Ct., Fulton, MD 20759. (301) 725-3858

FOR SALE: Zenith Trans-Oceanic battery pack for all tube models, uses (10) D cells - \$89.95 includes shipping, less batteries. James W. Poitvieux, 3 East Darby Cir., Mt. Holly, NJ 08060-3267. (609) 261-0059. E-mail: abbattery@aol.com

FOR SALE: Pair Patricia 800 Electro-Voice speakers, exc - \$8,000. Mr. Neal Vann Jr., 577 Simpson Rd., Trenton, GA 30752. (706) 657-6376

WANTED: Mini-Lab SE400 by Redline Co. Manual for PRD 809 Klystron power supply. Jim Krajovic, N3DKS, 546 Sheridan Ave. N, Pittsburgh, PA 15206. (412) 665-0916

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WANTED: EARADIOS, made by Hoch Mfg. and by Micro-phonics ca. 1972, and related paper. Ted Hutson, 11 1/2 Winthrop Ave., Beverly, MA 01915-4139. (978) 922-3405. E-mail: tedhutson@yahoo.com

WANTED: Couple Navy knobs to fit J-38 key. **FOR SALE:** WD-II substitute units. Details SASE. Dave Smith, PO Box 81, Olney, IL 62450. E-mail: k9uim@olbnet.com

WANTED: Still need schematic and service data for Newcomb #AV-1200 AM/FM, ca. 1959. Thanks! Michael K. Tremper, 110 Lynncrest Ter., Cheektowaga, NY 14225. (716) 834-9190

WANTED: Paying \$600 for ZENITH GLOBAL radio 6G004Y in excellent and original condition. Kenneth F. Cerva, 3851 Harbor Heights Dr., Largo, FL 33774-1209. (727) 584-6471

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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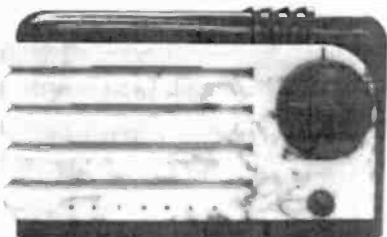
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WANTED: Zenith 10K volume control & switch for Royal 94Y Inter-Oceanic. George Cortelyou, 1409 Madison St. NE, Albuquerque, NM 87110. (505) 255-3347



WANTED: Prewar plastics by Detrola, Kadette, RCA, Philco, etc. My cousin Vinny and I, we was thinking, "Hey, we got the cash," (a cool mil, to be exact), "so let's spend some before dem girls gets hold of it." You know what I'm saying? Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

WANTED: Philco radio/phonograph Models 46-1201, 48-1401 and Philco table radio 49-501. Anything Philco Predicta. **FOR SALE/TRADE:** Audiovox Mod PS 20R 20 amp regulated power supply. Drake TV-3300-LP low-pass filter. Harold LaRoche, 16426 Heiden Cir., Spring, TX 77379-7026. (281) 370-3451

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FOR SALE: E.H. Scott Super XII with factory Brentwood cabinet, replacement speaker, excellent unrestored condition, best offer over - \$1,000. GE L660 Deco style - \$35. Zenith K731 - \$25. GE 1950s AM/FM - \$10. Restorable AK82 - \$150. Philco Models 37-602 - \$25; 53-956 - \$25; 144 - \$225. Case Model 718 lowboy console no knobs, cabinet needs TLC - \$100, OBO. Osborne OCC1 portable computers (2) best offer over - \$100. RCA TV Serviceman Tubecaddy - \$50. Packing and shipping extra. Mark Gutekunst, 2600 Martin Rd., Willow Grove, PA 19090. (215) 657-8958. E-mail: gutekunstm@aol.com

FOR SALE/TRADE: Detrola 429, General Electric(s); E-81, K-80, S-22. Grunow(s): 654, 750. Heathkit A9B amplifier. Philco(s): 60, 144T. RCA 810K, Stewart Warner(s): A51T3 Air Pal, 51T36 tapletop. Victoreen brochure, blueprints. **WANTED:** Philco 42-1010. Bill Timoszyk, 35283 Leon, Livonia, MI 48150. (734) 421-2076, 10-12 am or pm

FOR SALE: TR-7625 2M Kenwood, box and manual - \$70. Kodak stereo camera & TDC stereo slide projector - \$500. Roger Ruddick, 33 Emily Ln., Ft. Meyers Beach, FL 33931. (941) 463-8887

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FOR SALE: Sonora wood table radios: Models RBV 207 and RDU 209, both need work - \$10 each. Richard Haneline, 3600 Cuba Blvd., Monroe, LA 71201. (318) 323-9657, 8 am to 6 pm

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WANTED: November 1928 edition of Citizens Radio Callbook Magazine, Vol. 9, No. 4. Tod Prowell, W3URG, 413 North York Rd., Mechanicsburg, PA 17055. (717) 697-5227

WANTED: Collector tubes. We need all types of N.O.S. globe tubes. Call, write or e-mail for bid list. George H. Fathauer & Assoc., 688 W. First St., Ste. 4, Tempe, AZ 85281. (480) 968-7686. E-mail: fathauer@home.com

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WANTED: Headphones that fit in door of a Radiola II. O.E. Stimson, 909 S. 23rd St., Mt. Vernon, IL 62864. (618) 242-4336

WANTED: Any and all items relating to enigma machines from WWII, other spy stuff from era, i.e., British, American, German radios, etc., serious buyer. Also, looking for Zenith Stratosphere 1000, will pay your price! Have some great hi-end vintage mics, WE, Neumann, RCA, etc., and hi-fi to trade. Ex: Have complete Marantz system, consisting of 7-C pre-amp, 10-B tuner, 8-B amp, SLT-12 linear turntable w/Electro-Voice 3-way Century speakers, all sales lit, owners manuals, etc. Also, looking for Western Electric 53-A, Remler torpedo mics, U-47, U-67 literature. Have WE 381 doorknob tube, 45s, 71s, others for trade. Ward Kremer, 5807 Papaya Dr., Ft. Pierce, FL 34982. Ph./fax: (561) 468-7732. E-mail: WKremer798@aol.com

WANTED: Philco 70 w/original finish and brass esculcheon. Michael Harrington, PO Box 250995, Little Rock, AR 72225

WANTED: Audio Magazine 1950-1965 and 1940s-1960s. Japanese audio or hi-fi magazines. Randy Liebermann, 2820 Lee Oaks Place #102, Falls Church, VA 22046-7339. (703) 560-5790. E-mail: lunarcy@aol.com



WANTED: Air King Skyscrapers, wealthy extraterrestrial seeks examples of this architectural marvel for new intergalactic communications museum. Please write or call collect: Rain Buttignol, 214 State St., #7, Portsmouth, NH 03801. (603) 427-1384

WANTED: Tubes 6851, 6852, 6854. Also decent empty speaker cab for one 12" spkr. Tom Miller, PO Box 20138, London Terrace Station, New York, NY 10011. (212) 675 7704

WANTED: Early Magnavox tube and tube box. Larry Daniel, 1758 Chennault Cir., San Antonio, TX 78226. (210) 923-2634. E-mail: LDaniel102@aol.com

WANTED: Detrola console radios, with or without phonograph. Detrola tabletops with multicolor dial. Scott Flaughner, 41100 Plymouth Rd., Plymouth, MI 48170. (734) 737-4221. E-mail: scott.flaugher@unisis.com

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HELP: Have a Thor-O-Dyne Masterpiece. Need to know resistance of missing detector rheostat. Richard Gentry, PO Box 9274, Phoenix, AZ 85068. (602) 944-3019

HELP: Need band selector knob for GE L631. Also looking for GE Model HP657A table radio. D.W. Donaghu, 19791 Lombardy Ln., Yorba Linda, CA 92886

HELP: Need dial glass for Philco 40-195. Thanks. Bill Redner, 1 Lantern Ln., Marlton, NJ 08053. (856) 983-0876

HELP: Info needed on radio marked Bri-tone on metal cabinet, Model 568-14, mid-late 40s? Duffy Edwards, 5616 Roe Blvd., Roeland Park, KS 66205. (913) 384-2752

HELP: Need info on Lang radios. Charles Dreitlein, 515 Elizabeth St., New Milford, NJ 07646

HELP: Need to compare operating features of Grebe CR13 receiver owners. Stu Mount, W2AO, 35 Grand St., Highland, NY 12528. (914) 691-7957



HELP: I would like to correspond with anyone who has one or knows anything about it. The name on the front panel says "Elkay." I believe it was made by Langbein & Kaufman Radio Co., New Haven, Conn. Any help would be appreciated. Thank you. Bob Sukosky, 62 Strong St., Manchester, CT 06040. (860) 646-8857, 5-9:30 pm EST

HELP: Need mechanical sheets for record changer only Sentinel 292K AM/phono. Alex Kaplan, 5347 Park Place Cir., Boca Raton, FL 33486. E-mail: alexlaw@gate.net

HELP: I am restoring a Sparton 557 Blue Mirror Sleigh radio. The wood part of the cabinet has a black finish that is smooth to the touch but has a crystalline appearance. It needs to be refinished, and I want it to be authentic. Can anyone out there do this refinishing, or tell me how to do it and where to get the right paint, lacquer, or whatever it is? Ted Rogers, 6938 E. Waco Dr., Syracuse, IN 46567. (219) 457-8886. Fax: (219) 457-8776

HELP: Need (2) audio transformers and knobs for FE Model 30. David C. Hulick, 925 E. Ellis, Tucson, AZ 85719-1619. (520) 293-2328

HELP: Wanted information on Pathfinder Manufacturing Co., made battery sets in 1920s. Henry Trabold, 2058 Nakiska Ct., Toms River, NJ 08755. (732) 244-2345. E-mail: trabold@exit109.com

SERVICES: Radio schematics/service data U.S. & Canadian receivers. 1920s to 1960s - \$2.50 plus postage. Steve Rosenfeld, PO Box 387, Ocean Gate, NJ 08740. New ph.: (609) 597-2201. E-mail: srosenfeld@ems.att.com

SERVICES: Reproduction Philco cathedral cabinet parts. Front panels, bottom moldings, rear arches. Reproduction cabinets 20, 21, 70, 90. Grandfather clock finials: Philco 570, GE H-91, Crosley 124. Philco Colonial Clock top trim and finials. Other parts inquire. Gang tube shields: Philco 20, 21, 70, 90. **FOR SALE:** Schematics - \$2.50. Riders radio and TV manuals. Radio index 1 through 23, (copy) - \$25. Xerox copies of service manuals: Zenith, 942 p. - \$65; Philco, 300 p. - \$30; Crosley, 322 p. - \$30; Atwater Kent, 463 p. - \$35. Books, SASE for list. All plus shipping. Dick Oliver, 28604 Schwalm Dr., Elkhart, IN 46517. (219) 522-4516

SERVICES: Hickok factory authorized contact person offering affordable, professional services, calibration and technical assistance. **FOR SALE:** Put your Hickok doll in a new, beautiful master crafted, natural finish all wood carrying case, sides front and back of solid oak or maple, top in bottom of matching, 1/4" furniture plywood, brass plated hardware, limited production. Complete line of Hickok accessories, obsolete tube adapters for Hickok 6000 A/B. Socket savers. Replace your old hot line voltage control with a cool electronic control. Test leads, knobs, bias, and shut controls, replacement tube sockets, etc. Cardamatics, calibration cells, hand punch, cards punch to order. Manuals for most Hickok and military test equipment. **WANTED:** Hickok radio test equipment such as 118 B, with or without cards, Hickok Models: 1234, 1575, 580 A, 6000 A, tube testers. Model 156 traceometer, etc. **MESSAGE:** Service that satisfies since 1943. Thanks for your continued support and patience. Wendell E. Hall, 3 Mockingbird Cir., Jeffersonville, IN 47130. Home phone: (812) 282-9709. Shop: (812) 256-2090. Fax: (419) 793-4036. E-mail: hickok@bellsouth.net. Please always include your phone, fax or e-mail with your communications

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>

FOR TRADE: My Zenith 12S268 for your Zenith 12S370 or 12A58 or 12A57. A. Bruno, 24 Butternut Dr., New City, NY 10956. (914) 354-8899

FOR TRADE: Sparton main dial escutcheon shield for WE-216A Globe tube. Joseph William Wood, 6511 Chester Ave., Hodgkins, IL 60525-7608

MESSAGE: Frontier Capacitor of Lehr, N.D. cannot accept any capacitor cans for rebuilding for the next 90 days. This is due to the back-log which needs to be cleared up. Everett Hoard, Frontier Capacitor, PO Box 218, 403 S. McIntosh St., Lehr, ND 58460. Toll free: (877) 372-2341. Phone: (701) 378-2341. Fax: (701) 378-2551. E-mail: frntcap@bektel.com

MESSAGE: Help urgently wanted. Authors seek 40s, 50s, and 60s hi-fi sets to photograph for new book. The more unusual the better. Will visit you if you have them. You get credit in the caption. Tim Fabrizio, PO Box 10307, Rochester, NY 14610. (716) 244-5546. E-mail: phonophan@aol.com



VIRGINIA – Feb. 2

**TIDEWATER ANTIQUE RADIO ASSOC.
MEETING**

Call for location & directions
7 pm

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

CALIFORNIA – Feb. 5

**CALIFORNIA HISTORICAL RADIO SOC.
SWAP MEET**

Oakland, CA – Foothill Square Shopping Ctr.
8 am

Info: CHRIS Hotline – (415) 821-9800

ARKANSAS – Feb. 3

**ANTIQUERADIO 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 – Feb. 5

**VINTAGE RADIO & COMMUNICATIONS
MUSEUM – SWAP MEET**

E. Hartford, CT – St. John's Episcopal Church
Rectory Hall, corner of Rector & Main

8 am

Info: John Ellsworth – (860) 675-9916

NEVADA – Feb. 3

**NEVADAN ENTHUSIASTS FOR
ANTIQUERADIOS – MEETING**

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

7 pm

Info: Cort & Eileen Ancman – (702) 312-7110
ancman@juno.com

MICHIGAN – Feb. 5

**MICHIGAN ANTIQUE RADIO CLUB
WINTER SWAP MEET**

Dearborn, MI – Armenian Community Center
19319 Ford Rd., 1/2 mile west of M39

8 am-Noon

Info: Don Colbert – (313) 274-1948
E-mail: donsradio@aol.com

TEXAS – Feb. 4-6

**HOUSTON VINTAGE RADIO ASSOC.
Y2K HVRA-AWA CONVENTION**

Houston, TX – Hobby Airport Hilton

2 Auctions – Awards Banquet

Old Equipment Contest – Flea Market

For hotel reservations: (713) 645-3000

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

WASHINGTON – Feb. 5

**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

ARIZONA – Feb. 5

**ARIZONA ANTIQUE RADIO CLUB
WINTER SWAP MEET**

Tucson, AZ – Dave's Antique Service
3210 S. Dodge, #11

8 am

Info: Steve Smith – (480) 831-3095

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

MINNESOTA - Feb. 6

NORTHLAND ANTIQUE RADIO CLUB WINTER WORKSHOP

St. Louis Park, MN - Pavak Museum
3515 Raleigh Ave.

Time: TBA

Info: Steve Raymer - (612) 926-8198
SRaymer@PavakMuseum.org

ARKANSAS - Feb. 10

ARKANSAS ANTIQUE RADIO CLUB MEETING

Call for Location and Directions
7 pm

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

NEW YORK - Feb. 6

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

NEW JERSEY - Feb. 11

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

MISSOURI - Feb. 8

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

GEORGIA - Feb. 12

SOUTHEASTERN ANTIQUE RADIO SOCIETY WINTER INDOOR MEGA MEET

Winder, GA - C-Tech Systems
575 B Smith Road
8 am-Noon

Accommodations: Jameson Inn
(770) 867-1880, ask for Pat

Info: Bob Niven - (770) 586-5816
bobwiz@aol.com
Gordon Hunter - (770) 475-0713

N. CAROLINA - Feb. 8

EAST CAROLINA ANTIQUE RADIO CLUB MEETING

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

6:30 pm

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

OKLAHOMA - Feb. 12

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

OHIO - Feb. 8

ANTIQUÉ RADIO COLLECTORS OF OHIO MEETING

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

7:30 pm

Topic: Your Choice Radio Night

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

OREGON - Feb. 12

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

Updating Club List

Please send A.R.C. the name, address, etc.
of your club's contact person.

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.

MARK YOUR CALENDAR

Feb. 2 - VA, TBA - TARA Meeting
Feb. 3 - AR, Fort Smith - ARCCFS Meeting
Feb. 3 - NV, Las Vegas - NEAR Meeting
Feb. 4-6 - TX, Houston - HVRA-AWA Convention
Feb. 5 - AZ, Tucson - AARC Winter Swap Meet
Feb. 5 - CA, Oakland - CHRS Meeting
Feb. 5 - CT, Hartford - VRCM Swap Meet
Feb. 5 - MI, Dearborn - MARC Winter Swap Meet
Feb. 5 - WA, Seattle - REPS Meeting
Feb. 6 - MN, St. Louis Park - NARC Meeting
Feb. 6 - NY, Lake Ronkonkoma - GNYVWA Swap
Feb. 8 - MO, Kirkwood - ARCHGSL Meeting
Feb. 8 - NC, Greenville - ECARC Meeting
Feb. 8 - OH, Kettering - ARCO Meeting
Feb. 10 - AR, Little Rock - AARC Meeting
Feb. 11 - NJ, Freehold - NJARC Meeting
Feb. 12 - GA, Winder - SARS Winter Indoor Mega Meet
Feb. 12 - OK, Oklahoma City - OKVRC Meeting
Feb. 12 - OR, Oregon City - NWVRS Meeting
Feb. 13 - New Zealand, Wellington - NZVRS Meet
Feb. 13 - NM, Albuquerque - NMRCC Meet
Feb. 14 - GA, Norcross - SARS Meeting
Feb. 15 - CA, Sacramento - CHRS-Sac. Meeting
Feb. 16 - OH, Cincinnati - CARS Meeting
Feb. 16 - OH, Columbus - COARA Meeting
Feb. 17 - NY, Goshen - HARPS Meeting
Feb. 19 - CA, Van Nuys - SCARS Annual Auction
Feb. 19 - FL, Orlando - FAWG Swap Meet
Feb. 19 - IN, Indianapolis - IHRS Winter Meet
Feb. 19 - TX, Irving - VRPS Meeting
Feb. 20 - IL, Elgin - ARCI Meeting
Feb. 20 - MA, Westford - GBARC Radio XXXI
Feb. 20 - TX, Schertz - TARC Meeting
Feb. 20 - WA, Seattle - PSARA Meeting
Feb. 21 - New Zealand, Auckland - NZVRS Meet
Feb. 22 - OH, Kettering - SPARK Meeting
Feb. 24 - CT, E. Hartford - VRCM Lecture Series
Feb. 26 - KS, Shawnee - MAARC Winter Swap Meet
Feb. 26 - OH, Seville - Estes Auction
Feb. 28 - AL, Birmingham - ALHRS Meet
Mar. 1 - VA, TBA - TARA Meeting
Mar. 2 - AR, Fort Smith - ARCCFS Meeting
Mar. 2 - NV, Las Vegas - NEAR Meeting
Mar. 4 - CA, Sacramento - CHRS Meeting
Mar. 4 - PA, Havertown - DVHRS Super Wintermeet 2000
Mar. 4 - WA, Seattle - REPS Meeting
Mar. 5 - NY, Lake Ronkonkoma - GNYVWA Swap
Mar. 9 - AR, Little Rock - AARC Meeting
Mar. 10 - NJ, Freehold - NJARC Meeting
Mar. 11 - OK, Oklahoma City - OKVRC Meeting
Mar. 11 - OR, Oregon City - NWVRS Meeting
Mar. 11 - TX, Houston - HVRA Meeting
Mar. 12 - CO, Denver - CRC Meeting
Mar. 12 - NM, Albuquerque - NMRCC Meet
Mar. 13 - GA, Norcross - SARS Meeting
Mar. 14 - MO, Kirkwood - ARCHGSL Meeting
Mar. 14 - NC, Greenville - ECARC Meeting
Mar. 14 - PA, Telford - DVHRC Meet & Auction
Mar. 15 - OH, Kettering - ARCO Meeting
Mar. 18 - TX, Kyle - TARC Meeting
Mar. 23-25 - NC, Charlotte - CC-AWA 25th Spring Meet
Mar. 26 - British Columbia - CVRS Chapter Meeting
Apr. 28-May 1 - Brazil, Sao Roque - Swap & Auction
Apr. 29 - NH, Nashua - NEARC Meet
May 13 - PA, Kutztown - 2nd Annual Radio Meet

MARK YOUR CALENDAR

(Continued from bottom left column)
May 19-20 - MN, Plymouth - Radio Daze 2000
May 19-21 - OH, Dayton - Hamvention
Jun. 8-10 - IN, Indianapolis - IHRS/AWA Spring Fling
Jun. 30-Jul. 1 - WA, Seattle - PEMCO/REPS Showcase
Jul. 7-9 - MI, Lansing - MARC Extravaganza '00
Jul. 15 - NH, Nashua - NEARC Meet
Aug. 4-6 - IL, Elgin - ARCI Radiofest XIX
Aug. 26-27 - MA, Boxboro - Boxboro 2000 (ARRL)
Sep. 6-9 - NY, Rochester - AWA Meet
Oct. 21 - NH, Nashua - NEARC Meet
See expanded listing for many of these events

NEW MEXICO - Feb. 13

NEW MEXICO RADIO COLLECTORS CLUB MEET

Albuquerque, NM - Anna Kase-man 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

NEW ZEALAND - Feb. 13

NEW ZEALAND VINTAGE RADIO SOCIETY WELLINGTON MEETING

Wellington - Tireti Hall
Te Pene Ave., Titahi Bay
1 pm

Info: Bob Hattor, 40 Rose St.
Wadestown - J4-4723788

GEORGIA - Feb. 14

SOUTHEASTERN ANTIQUE RADIO SOC. MEETING WITH SHOW & TELL

Norcross, GA - Picadilly Cafeteria
3400 Holcomb Bridge Road

6:30 pm

Topic: "B" & "C" Radios

Info: Gordon Hunter - (770) 475-0713
SARS, PO Box 1055, Tucker, GA 30085-1055

CALIFORNIA - Feb. 15

CALIF. HISTORICAL RADIO SOCIETY SACRAMENTO CHAPTER MEETING

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

7 pm

Info: CHRS Hotline - (415) 821-9800

*Submit your event listing to A.R.C.
arc@antiqueradio.com or fax: (378) 371-7129.
Or mail to: PO Box 2, Carlisle, MA 01741.*

OHIO - Feb. 16

CENTRAL OHIO ANTIQUE RADIO ASSOC. MEETING

Columbus, OH - DeVry Institute of Tech.
1350 Alum Creek Rd., I-70 Exit 103B
7:30 pm

Info: Barry Gould - (614) 777-8534
Chuck Davis - (614) 792-6237

OHIO - Feb. 16

CINCINNATI ANTIQUE RADIO SOCIETY MEETING

Norwood, OH - ITT Technical Institute
4750 Wesley Ave.
7:30 pm

Info: Greg Tierney - (937) 732-1844

NEW YORK - Feb. 17

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)

CALIFORNIA - Feb. 19

SO. CAL. ANTIQUE RADIO SOCIETY ANNUAL AUCTION

Van Nuys, CA - St. Andrews Lutheran Church
15520 Sherman Way
10 am

Info: Thurston Armstrong - (310) 822-8382
Ricki Glassman - (818) 993-4560

FLORIDA - Feb. 19

FLORIDA ANTIQUE WIRELESS GROUP SWAP MEET

Orlando, FL - VFW Hall
4444 Edgewater Dr.

8:30 am

Info: Radio Relics - (407) 740-5581
oldradio@magicnet.com

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

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

INDIANA - Feb. 19

INDIANA HISTORICAL RADIO SOCIETY WINTER MEET

Indianapolis, IN - Holiday Inn, South East
5120 Victory Lane, I-465 at Emerson, Exit 52
7:30 am

Swap Meet - Contest
Lunch - Business Meeting

Info: Mike Clark - (317) 738-4649
Herman Gross - (765) 459-8308

TEXAS - Feb. 19

VINTAGE RADIO & PHONO. SOCIETY MEETING

Irving, TX - Senter East Building
3 pm

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

ILLINOIS - Feb. 20

ANTIQUE RADIO CLUB OF ILLINOIS MEETING - SWAP MEET

Elgin, IL - Elgin Plaza Hotel
345 River Rd. (Soon to be Ramada Inn)

7 am-1 pm: Swap Meet - Ballroom
10 am: General Meeting - Ivy Room

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

MASSACHUSETTS - Feb. 20

GREATER BOSTON ANTIQUE RADIO COLLECTORS - RADIO XXXI

Westford, MA - Westford Regency Inn
I-495, Exit 32, West on Rt. 110 for .4 mi.

8 am-1 pm

Drinks and snacks available

For hotel reservations: 800-543-7801
(in MA 800-543-7802) - Mention Radio XXXI

Info: A.R.C., PO Box 2, Carlisle, MA 01741
(978) 371-0512 - arc@antiqueradio.com

TEXAS - Feb. 20

TEXAS ANTIQUE RADIO CLUB MEETING

Schertz, TX - VFW Hall
2:30 pm

Info: Jim Moffett, 218 Shannon Lee, San
Antonio, TX 78216 - (210) 826-4938

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

WASHINGTON - Feb. 20

PUGET SOUND ANTIQUE 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 - (425) 747-1323
PSARA - PO Box 2095, Snohomish, WA
98291-0125 - (360) 568-2698

OHIO - Feb. 26

ESTES AUCTIONS VINTAGE RADIO AUCTION

Seville, OH - Seville Antique Auction Barn
8240 Wooster Pike Rd.

8:30 am: Preview - 10 am: Auction
Info: Estes Auctions - (330) 769-4992
(330) 769-3987 - Fax: (330) 769-4116

ALABAMA - Feb. 28

ALABAMA HISTORICAL RADIO SOCIETY MEETING

Birmingham, AL - Homewood Public Library
1721 Oxmoor Road

7 pm

Info: Julian Brook, PO Box 130307,
Birmingham, AL 35213 - (205) 879-1191

NEW ZEALAND - Feb. 21

NEW ZEALAND VINTAGE RADIO SOCIETY AUCKLAND MEETING

Auckland - Horticultural Soc. Hall, Chamberlain
Park Golf Clubhouse, 990 Great North Rd.

7:30 pm

Topic: IF Stages & Their Alignment
Info: Ian Sangster - ian.Sangster@airnz.co.nz

OHIO - Feb. 22

SOCIETY FOR PRESERVATION OF ANTIQUE RADIO KNOWLEDGE MEETING

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

7:30 pm

Presentation: Story of Radio Station WHAM
Show & Tell: Transistor Radios
Info: PO Box 292111, Kettering, OH 45429
E-mail: sparkinc@juno.com

VIRGINIA - Mar. 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.

ARKANSAS - Mar. 2

ANTIQUE 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 - Feb. 24

VINTAGE RADIO & COMMUNICATIONS MUSEUM - WINTER LECTURE SERIES

E. Hartford, CT - VRCM
711 Main St.

7:15 pm

Featured Speaker: Ed Sax

Topic: The Telegraph,
the Original Electronic Internet

Info: John Ellsworth - (860) 675-9916

NEVADA - Mar. 2

NEVADAN ENTHUSIASTS FOR ANTIQUE RADIOS MEETING

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

7 pm

Info: Cort & Eileen Ancman - (702) 312-7110
ancman@juno.com

KANSAS - Feb. 26

MID-AMERICA ANTIQUE RADIO CLUB WINTER SWAP MEET

Shawnee, KS - Holiday Inn
63rd St. & Metcalf

9 am

Info: Bob Lutz - (913) 894-1327

SUBMISSION DEADLINE

5th OF MONTH

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

CALIFORNIA - Mar. 4**CALIFORNIA HISTORICAL RADIO SOC.
SWAP MEET**Sacramento, CA - Towe Auto Museum
9 am

Info: CHRS Hotline - (415) 821-9800

PENNSYLVANIA - Mar. 4**DELAWARE VALLEY
HISTORIC RADIO CLUB
SUPER WINTERMEET 2000**Havertown, PA - Grimes Center
St. Denis' Church

8 am: Swap Meet

11 am: Auction

Info: Bill Overbeck - (610) 853-3199
Dave Abramson - (610) 827-9757**WASHINGTON - Mar. 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**NEW YORK - Mar. 5****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**ARKANSAS - Mar. 9****ARKANSAS ANTIQUE RADIO CLUB
MEETING**

Call for Location and Directions

7 pm

Info: Tom Burgess - (501) 455-0773

NEW JERSEY - Mar. 10**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**OKLAHOMA - Mar. 11****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 - Mar. 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**TEXAS - Mar. 11****HOUSTON VINTAGE RADIO ASSOC.
SWAP MEET**Houston, TX - Lucky Ling Rest., Tides II
Hotel, 6700 S. Main St. at Holcombe

Noon-1 pm: Lunch

1 pm: Swap Meet

Info: Bill Werzner - (713) 721-2242
mingqi53@earthlink.net**COLORADO - Mar. 12****COLORADO RADIO COLLECTORS
MEETING**Denver, CO - VecraBank Bldg.
1380 South Federal Ave.

1 pm

Info: Larry Weide - (303) 758-8382

NEW MEXICO - Mar. 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 AuctionInfo: Chuck Burch, 39 Chaco Loop, Sandia Park,
NM 87047 - (505) 286-9674 - ChuckBurch@aol.com**Publicize Your Event***Submit your listing to A.R.C.
arc@antiqueradio.com or fax: (978) 371-7129
Or mail to: PO Box 2, Carlisle, MA 01741*

GEORGIA - Mar. 13

SOUTHEASTERN ANTIQUE RADIO SOC.
MEETING WITH SHOW & TELL
Norcross, GA - Picadilly Cafeteria
3400 Holcomb Bridge Road
6:30 pm
Topic: "A" Radios
Info: Gordon Hunter - (770) 475-0713
SARS, PO Box 1055, Tucker, GA 30065-1055

MISSOURI - Mar. 14

ANTIQUERADIO 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

N. CAROLINA - Mar. 14

EAST CAROLINA ANTIQUE RADIO CLUB
MEETING
Greenville, NC - Golden Corral Rest.
504 S.W. Greendale Blvd.
6:30 pm
Info: Bill Engstrom - (252) 355-8732
Herman Schnur - (252) 752-2264

PENNSYLVANIA - Mar. 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

*Mention A.R.C.
when contacting clubs!*

OHIO - Mar. 15

ANTIQUERADIO COLLECTORS OF OHIO
MEETING - 7:30 PM
Kettering, OH - National City Bank Basement
4100 Far Hills Ave., at Stroop Rd.
Topic: Emerson Radios
Info: John Heck - (937) 435-1571
ARCO, PO Box 292292, Kettering, OH 45429

TEXAS - Mar. 18

TEXAS ANTIQUE RADIO CLUB
MEETING - 10 AM
Kyle, TX - Railroad BBQ
Info: Jim Moffett, 218 Shannon Lee, San
Antonio, TX 78216 - (210) 826-4938

N. CAROLINA - Mar. 23-25

CAROLINAS CHAPTER - AWA - 24TH
ANNUAL SPRING MEET IN THE CAROLINAS
Charlotte, NC - Sheraton Airport Plaza Hotel
I-85, Exit 33, the Billy Graham Parkway
Thurs: Noon - Registration
2 pm - Key Collecting
4 pm - Annual Membership Meeting
7:30 pm - Radio Restoration
8:30 pm - Restoration Forum
Fri.: 7 am - Registration
8 am - Flea Market
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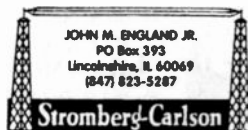
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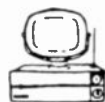
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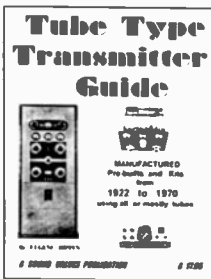
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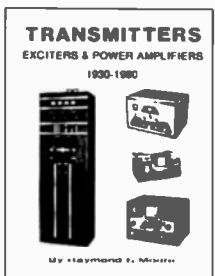
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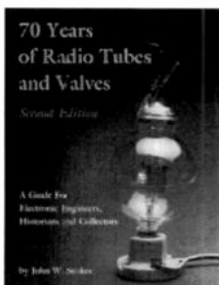
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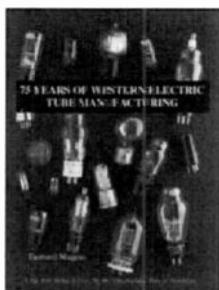


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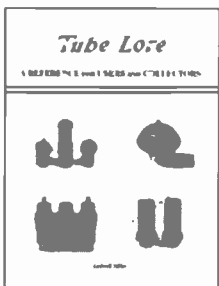
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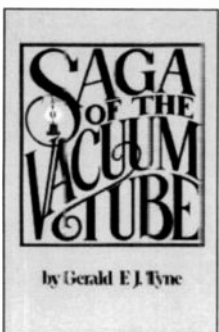
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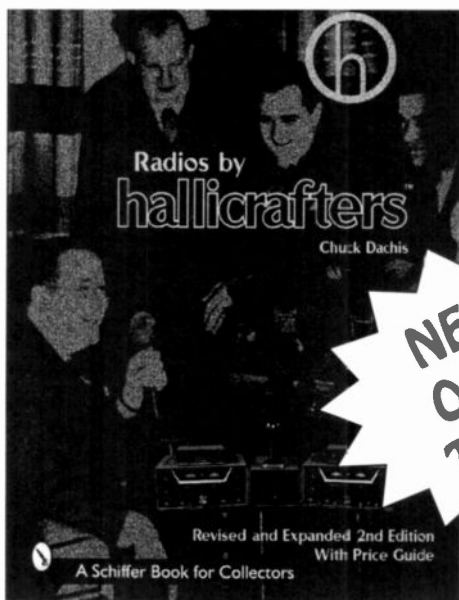


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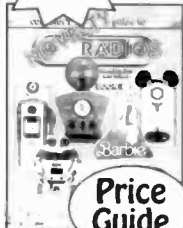
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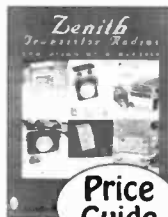
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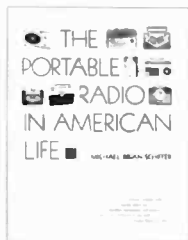
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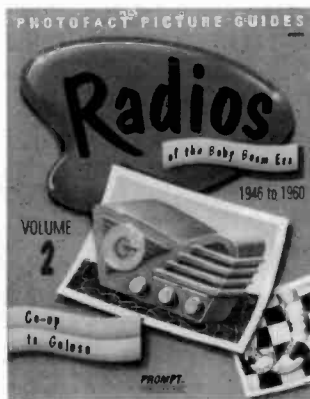


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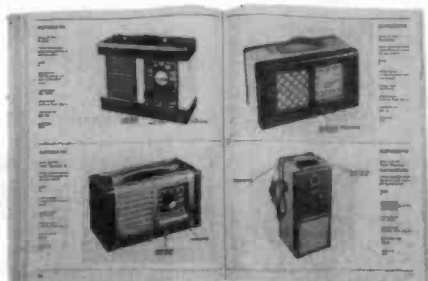
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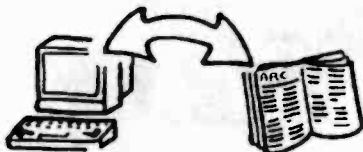


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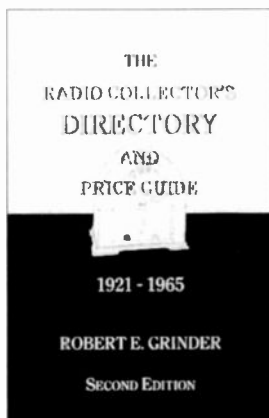
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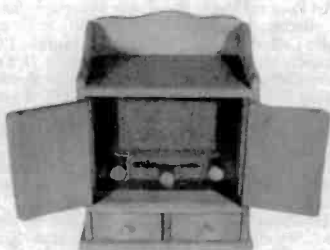
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Junior Juke Box Model 11--This red painted wooden phonograph from Hudson Electronic Corp, has 4 round windows that light up when playing. Well made; amp works but hums. **\$53**



FOR SALE: Spice Chest radio-5 tube set. Model 484 from Lamsmiths, Los Angeles, this is actually **Rock Maple!** Clean and complete, but has loud hum. Non-Guild novelty...**\$47**



1950's DEALER Flags! These are screened with company logos and slogans. Some frayed--but these are really great backdrops!

Westinghouse TV Furniture-Fashion (some fraying on edge) **\$19**

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PHILCO Power-Plant TVs 1952 (22"x40")...**\$28**



FOR SALE: Country Bell Tube-Type wooden novelty radio that looks like an old fashion phone. Missing a piece of brass trim, but nice. Clean 5-tube **GUILD**, Model #556...**\$42**



FOR SALE: Country Bell Transistor wooden novelty radio--I hadn't seen this before. Works, from the late 1950s, same cabinet to above--but includes FM band as well. Working cond..**\$46**

CLASSIFIED ADVERTISING POLICY

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 I and l (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.

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