



ANTIQUE RADIO CLASSIFIED



VOLUME 26

DECEMBER 2009

NUMBER 12



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ANTIQUE RADIO CLASSIFIED

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Unfortunately, A.R.C. is not staffed to answer all letters with questions about antique radios or requests for advice. However, A.R.C. does solicit letters of interest from its readers and publishes them as space permits. (See "Publishing Rights" paragraph.)



EDITOR'S COMMENTS

In the 25 years since its founding in that Orwellian year of 1984, *Antique Radio Classified* has evolved from a 16-page sample copy to a 60-plus page, premier publication of ads, articles, club events, and photographs to benefit the radio-collecting community. The next step in our evolution has been to meet the demands of the new "Information Age," not an easy process. However, evolve we must.

A major step forward is that full issues of A.R.C. are now available on the web for subscribers. Two-month, web-only subscriptions are also now available, and more web-only options are in the planning stage. We've found that the print magazine is still appreciated in its traditional format every month. And, although costs continue to rise, we are experimenting with deep discounts to build the subscription base.

This 1/3 off holiday special expires December 31, and, by the way, if you have not done so already, take advantage of this bargain!

The Antique Wireless Association is also evolving. They have brought to a halt their decreasing attendance at the annual meet with a new openness to non-members. This premier event is described in our lead article by Ray Chase, Jim Monegan, the A.W.A., and your editor.

The audio tape cassette and the "Boombbox" of the 1960s were steps along the way in the evolution of music listening. Of course, the iPod and other MP3 players have left the "Boombbox" behind in their wake. But, Andrew Hayden reminds us of the pleasure of listening to Sony's portable cassette player/radio.

Looking back a decade to the 1950s, Olin Shuler reflects on the early days of hi-fi, the kits by Heathkit, Knight Kit, and others. His very inexpensive vehicle to

the past was the purchase of a 1958 magazine that made those days come alive for him again.

Keeping those old radios alive is Daniel Schoo's passion. This month he details how radios with damaged plastic dial covers can be made to look like new. Take a look around your collection, and your winter project may say, "Give me a new dial face, please!"

Our continuing project, of course, is to keep A.R.C. coming to you in the format that best suits your needs, whether in print form or via the web. We appreciate the support from all of you in helping us to succeed in that endeavor. Spread the word to all collectors and suggest that they subscribe, because *Antique Radio Classified* is and will continue to be the leading "National Publication for Buyers and Sellers of Old Radios."

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Coming Radio Events. Listed this month are 20 meetings, 2 auctions, and 7 meets. Enjoy the spirit of the season, and best wishes from everyone here at A.R.C.

Happy Collecting!

John V. Terrey, Editor

ON THE COVER

Our cover photo is from the John V. Terrey collection. It is a stand-up advertising piece sent by Tung-Sol to stores for use in the holiday season.

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MEET & AUCTION REPORT

Antique Wireless Association Conference and Auction Report Rochester, New York — August 20-23, 2009

REPORTED BY RAY CHASE WITH CONTRIBUTIONS FROM JOHN V. TERREY AND THE AWA

The 48th Antique Wireless Association (AWA) Conference was held August 20-23 at the RIT Inn and Conference Center in Rochester, New York. Registration began on Thursday at 5 A.M. and though parking was permitted in the flea market area, selling was not permitted officially until Friday morning. However, some dealers did set up to sell without any "policing" by the AWA.

Although the first presentation was on Thursday evening, Friday was the grand opening day and activities continued through Sunday, encompassing the whole weekend. The auction was the close-out event on Sunday and finished at 3 P.M. This was a shift in scheduling from previous years when activities started on Wednesday and ended on Saturday. Most people appreciated not having to take as many weekdays off work to attend the meet as in the past. There was some reshuffling of club personnel and their roles and a few problems along the way, but in general a good time was had by all.

Total attendance as reported by the AWA was 417, slightly up from last year's total of 402. It appears that the AWA was successful in counteracting several years of a downward trend in attendance. Dropping the re-



Entered in the contest by Merrill Bancroft, this rare National Airphone Radiotrola Baby Grand, pictured above, is the only example of this set that he has seen. Displayed along with a October, 1924, advertisement in Radio News, this was a First Place contest winner.



Merrill Bancroft entered this dual-unit Elmco set, a Model S-1 Tuner and a Model A-3 Amplifier. Elmco, the Electric Machine Corp., was located in Indianapolis, Ind. A copy of a Radio Digest Illustrated from 1922/23 with an article featuring the set was included in the display. This was a First Place contest winner!



This operating Zenith Model G2340R, a 12-inch black and white television set from 1949-50 was entered in the contest by Raymond Sieracki. This so-called "port hole" set featured a "duo-picture" control where one could choose either a "giant circle" or smaller, rectangular picture, similar to our multi-format choices today with a high-def screen. The set was displayed along with a dealer's catalog and a Zenith line brochure. This was another First Place contest winner.

quirement of AWA membership may have been a factor since 44 of the attendees were not members.

The weather prediction for most of the event was



This 1971 Panasonic Model TR-005 "Orbitel" television set was entered in the contest by Jayne Kaiser. This 5" portable set included 22 individual transistors! The set reflected the fascination with the post-moon landing space travel.

dire, indeed, mostly forecasting rain. Fortunately, the predictions were largely wrong, and the rain that did occur did not cause too much disruption. Knowing that rain might be a problem, the organizers took a new tack and erected a very large tent in the parking lot for flea market vendors. As usual, assigned vendor spots were marked by chalk on the macadam, but a very heavy rain on Thursday night washed out most of them. The result was a bit of confusion on Friday.

Friday morning was clear and most vendors took their assigned spots, so the tent was largely empty. However, a few small showers during the morning sent them scurrying to the shelter of the tent, and many stayed there for the rest of the meet. The remainder of

(Continued on following page)



Shelter from the weather was welcome under the large tent.

(AWA 2009 Conference, continued)
the weekend had mostly clear weather so some vendors opened up back on the macadam.

AWA officials reported that flea market spaces sold were up this year. Paul Farmer's count on the first morning of the flea market was 111 this year, up from his count last year of 88. [Unfortunately, last year we credited another "Farmer," instead of Paul with the flea market count. We apologize to Paul.] Still, there were vast barren areas on the parking lot. Nevertheless, the tent area remained full, and officials vowed to keep this benefit for next year.

The book fair returned to its original location in the assembly court, much to the relief of the participants, and good traffic on Friday and part of Saturday resulted. However, the major bobble in the event was the hotel's scheduling of a large wedding and reception in the same area as the book fair from late Saturday afternoon through the evening. This caused huge disruptions to the book fair, as vendors had to pack up and leave the area on Saturday. Although they could set up again on Sunday morning, few did.

In general, the wedding interfered with the uninterrupted use of the space usually occupied by the AWA. Though registration took place in the ballroom as expected, items for the auction could not be left there. Instead, they were crammed into two small rooms that made viewing difficult. They then had to be moved to the ballroom for the auction on Sunday. Initially, this caused the auction input to be smaller than usual. On Sunday morning, more items came in, but



Geoffrey Bourne entered this Educational Hobby Kit in the equipment contest. With the Electronics No. 1 kit, you could build a two-tube radio receiver.



Once John Shubbuck unloaded his long trailer, his radio offerings spread...



This 1919 American Marconi 4V 4-step amplifier sold for \$4,400 in the auction. I understand that a restoration is in process by the new owner, and if we are lucky, a restoration article will appear in a future issue of A.R.C.



This Philco Model 16B, in very good condition, was seen in the flea market for \$275.

then, there was less time to look them over.

Apparently, the AWA was aware of the "double booking" by the hotel, but the book fair vendors were not advised in advance. Obviously, a great deal of frustration resulted.

The seminars are always a highlight of this event, and reports were that they were up to their usual quality and professionalism. Tom Perera made the first presentation on Thursday night accompanied by a guest speaker, Virginia Utermohlen-Lovelace. Their subject was "Disappearing Wireless History." Utermohlen-Lovelace is the granddaughter of Jack Binns, the wireless operator who triggered the first radio/sea rescue by using radio communications when his ship the *Republic* collided with the *Florida* in 1909. Tom also moderated the Key and Telegraph seminar with participants David Bart, Roger Buttingnoi, Vince Thompson, and Gil Schlehman.

The "Authors and Editors Get-Together" was an informal program to discuss ideas for articles in the *AWA Review* and the *AWA Journal*. New ideas are always welcome in hope of attracting new readers to these publications. The title of Steve Goldstein's seminar "True Confessions of a Heathkit Addict" was an attention-getter, but no matter what the title, there's much to learn at every one of the AWA seminars.

The contest was also up to its excellent standards. The theme was kit radios and the entries varied greatly

from a DeForest 15-panel receiver to Philmore, Knight, Heathkit, and other makes. Even a Heathkit EC-1 analog computer showed up.

Although a ladies' luncheon was not scheduled this year, many complaints from the distaff side caused the hasty organization of a luncheon by the ladies themselves for Saturday. The conference organizers learned a lesson here: "Do not dis the ladies," and promised that the luncheon would be back on the schedule next year.

The highlight of the banquet, attended by 119 diners, was Tom Peterson's presentation reviewing the plans for the new museum building complex. In the next few years, the move into the first-class museum will take place. Included will be an auditorium/radio studio for presentations, some staged as if in an early radio studio. An important component is the library, which has received major funding from Max Bodner who was honored during the event. Visitors can look forward to entering the museum as

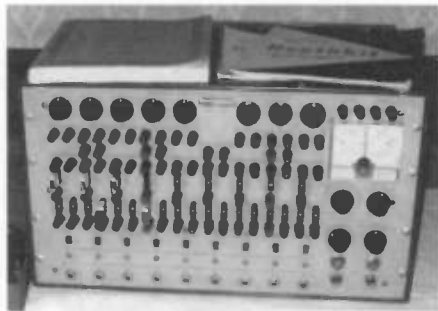
(Continued on following page)



...from west to east along the north side of the flea market parking lot!



Bill Holly entered this Allied Radio Knight Ocean Hopper regenerative receiver kit in the equipment contest. It was complete with coils, catalog and manual.



This Heathkit Model EC-1 analog computer, ca. 1960, was an unusual item in the contest.

if walking through a giant Sparton blue mirror radio.

THE AUCTION

As for the auction, its being held on Sunday caused quite a lot of consternation as some attendees needed Sunday to return home. In spite of this, the attendance held up fairly well. Conducted again by Richard and John Estes and supported by AWA volunteers, it got off to a late start at 9:25 A.M. As already indicated, late arrivals of more merchandise, as well as last minute viewing, seemed to be the cause of the delay.

This year the auction started with paper goods and that went quickly. A good selection of tubes, with quite a few foreign types, was then offered. In the general auction that followed the most significant item was an American Marconi 4V 4-step audio amplifier that sold for \$4,400. As usual there were quite a few (19) no-sale items where the buyer's reserve was not met.

In all, it was a fairly average sale with some bargains to be obtained here and there. Box lots were of higher quality than usual. Some buyers must have spent the time to examine the contents rather thoroughly since several sold for over \$100. Examples: 30 to 40 tubes in cartons sold for \$200; a large box of tubes, including (16) 01-As sold for \$165, a large box of brass-based 201s, 80s, 27s, and 51s sold for \$145; a box of 99s & WD-11s, etc., sold for \$150; and a box that included many audio transformers sold for \$190. These lots are not included in the listing below.

The number of items was 311, with 25 no-sale items. An official total of \$25,295 was realized, somewhat less than the \$28,000 in 2008 and considerably less than the \$32,000 in 2007. These numbers are well down from the high points of 10 years ago. The auction may have suffered mainly from the confusion with the wedding the evening before and also from being held on Sunday. Maybe next year things will be better organized.

Abbreviations: e=excellent, vg=very g, g=g, f=fair, p=poor, unk=unknown condition, N.O.S.=new old stock, wk=working, nwk=not working, WT=with tubes, NT=no tubes, BB=brass-based, TT=tipped tube, SW=shortwave, PS=power supply, PB=push buttons, WE=Westem Electric. All prices have been rounded down to the dollar. Some low cost items and items in poor condition or non-specific descriptions are omitted.

Paper, Advertising and Ephemera:

Allied Radio Catalog, 1935 & 1936, (2)	\$30
Amateur Radio Call Book, 1928	50
Amateur Radio Call Book, 1929	20
Amateur Radio Call Book, 1961	10
Amateur Radio Magazine, 1924	35
Amateur Telegraphy, hardcover, 1903, f	70
ARRL Radio Amateur Handbook, defense issue, 1942, f	17
Beitman, box of most needed service data, 26-47. 30	
Citizens Radio Call Book magazine, 1927	40
DuMont edge-lit sign, 6" x 14", on home-brew base60	
Gernsbach Radio Service Manual, (2), 1935	25
IRE Proceedings, (3) boxes, 1926 to 1941	90
ITT Reference Data, hardcover, w/dust jacket	25
Majestic 1930 iron savings bank, g	50
Manhattan Electric Supply Co. (MESCO) catalog, hardcover	50
Radio News , hardcover, 1924, f	10
Radio News magazine (2), 1927	55
Radiogram, 1929, Byrd to Amateur Radio Club	20
Sparton cardboard advertising sign, 14" x 30"	35
Zenith toy, 18 wheeler advertising truck, white, vg	90

Vacuum Tubes and related items:

5U4, (7), in box	15
6E5 & (1) 2E5, N.I.B., (eye)	20
6L6GA, (2), N.I.B.	45
6L6GB, (3) & (1) 6L6G	20
6SN7, (14), in cartons	50
6SN7, (20)	40
6V6, (16)	15
10, globe, (8), duds	20
12AU7A, (6), in box	12
24A, (16), N.O.S.	30
26, (24), N.O.S.	60
27, (6), blue	65
30, N.O.S., (15)	65
71A, (2) N.O.S., (2) used, in cartons	35
71A, globe, (3) & (1) ST	25
201A, (5), & (1) 200A, g	55
Brightson Blue tube, gf	55
Central Scientific ARC lamp, in box	20
Crocker cold cathode tube, 12" long	80
Crookes A320 tube on wood stand, paddle wheel on rails for display of electron flow	325
Crosley 01-A, (3), gf, in box	40
Daven T-2080 TV lamp, early, in box	250
DeLux blue tubes, (4), in box, gf, plus dud	
Brightson Blue	400



This Atwater Kent Model 84, in good condition and "partially" working, sold for \$150 in the auction.

DV-5, (2), gf, ceramic base	65
Edison labeled lamp, mounted, g	25
GE ST10, N.O.S., gf	30
German X-Ray tube, old	200
Kellogg 401, (2) & (1) 2A3 Ballast	60
Marathon 201A, (2), g	20
Meyers tubes, (2), open, (1) w/socket adaptor, w/UV base	35
Philco 45, (2), N.I.B.	45
Phillips detector tube, (2), gf	20
Phillips early detector tube, gf	35
Phillips RS 69 transmitting tube, gf	125
Radio Valve Co. 201A, (2), BB, Canadian, gf	30
RCA 201, (2), BB, & unknown BB 201, gf	60
RCA 811A, (2), in box	5
RCA 913, 1" CRT, g	65
RCA 4426, large photomultiplier tube, in box	85
RCA 5527 Iconoscope	85
SS 210 & 99, gf, English, 4-pin	20
Super Gold Airline 201, N.I.B.	85
Telefunken RS 69, (2), N.O.S., gf, in box	250
Telefunken RS 5 (or 557?) WWI transmitting tube, in orig. box	300
Tesla TV ARC lamp, in box	50
Tung-Sol 5881, (4)	25
UV-199, (4), gf	45
UV-199, (4), in cartons	60
UV-202, BB, TT, gf	100
UV-202, gf	85
UX-199, (4), g	50
UX-200, (10), N.O.S., in box	150
UX-200, (6), N.O.S., in box	170
Volutron, BB, TT, gf	30
WE-216A, (2), gf	225
WE-416B, N.I.B.	15
WE-421A (3) & (2) 412As	95
Westinghouse 47, (2) & (1) Philco	10

(Continued on following page)

Reflections On The 2009 AWA Conference Changes for the Better

BY JIM MONEGHAN

Every year the Antique Wireless Association (AWA) puts on a radio meet with flea market, seminars, book fair, auction and more in Henrietta, New York, a suburb of Rochester. Over the last few years, the meet has been getting smaller and smaller. There are many reasons for this, and I will not go into them here.

Apparently the AWA was/is being absorbed by the AWA Museum, a separate but affiliated organization. There was an attempt to make these changes in time for the meet.

This year the radio meet was held in August, as usual, but there were many changes to the flea market portion of the meet. First, sellers could sell as soon as they received their parking assignments on Thursday evening. There was no one around telling you that you couldn't sell until the official opening on Friday morning. This made for a more relaxed and enjoyable evening for all.

Second, there was a huge tent in the center of the parking lot, just like at Extravaganza, the Michigan meet. The tent was there in case of inclement weather, and as it turned out, we used it.

Third, the public was welcome to visit the flea market without paying ridiculous fees to get in. There were many more changes, but these three were the ones that stood out for me.

Friday morning at 4 A.M., I headed outside and believe it or not, I was not the only one out there at that time. By 6 A.M., there were quite a few people roaming around, many more as the morning went on. Everyone seemed to enjoy themselves and many radios and related items found new homes. Saturday morning was more of the same, just a little slower. Even so, the sales were still brisk for many dealers that I talked to. I myself sold more radios on Friday and Saturday than in the last five years combined at Rochester! I was unable to attend the auction this year, so I don't have any information on it.

After the show, I contacted many dealers, and they all said it was a great show this year. Talking with old friends is the best part of this event for me. It was great to see everyone again and talk radio stuff. A few friends didn't show up this year — hope they do next year.

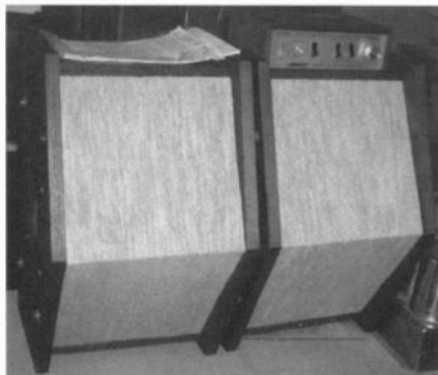
I believe everyone who did show up had a good time. Collectors who gave up on this show due to past politics or other reasons really should give it another chance. It is not the same AWA that they knew before. As word gets out about the all-round success of this year's radio meet, and more collectors or dealers come back, next year's meet should be even better!

(Jim Moneghan, Lincoln Electronics, PO Box 326, Lincoln, RI 02865)

(AWA 2009 Conference, continued)



This nice Zenith advertising piece sold in the auction for \$90.



Early hi-fi buffs will remember this item, a Bose Model 901 Direct/Reflecting Loudspeaker system. Complete with Model 901 Active Equalizer and manual, it sold for only \$175.

Westinghouse 245, globe, (2) tested	75
Westinghouse WD 12, BB, TT, in box	55
Zenith 50, in Zenith can	100

Radios and related items:

Aircraft Radio Corp. ADF control box	40
Aircraft Radio Corp. R-11A receiver, w/dynamotor	15
Airline blue metal midget	25
American Marconi 4V, 4-step, 4-tube audio amp, NT, unusual piece, g	4,400
Atwater Kent 10 breadboard, Pooley board, WT .	300
Atwater Kent 10 breadboard, NT, w/tags, g	450
Atwater Kent 20 big box, WT, minus (1) knob	20
Atwater Kent 30, NT	40
Atwater Kent 55 lowboy console, nice grille, vg ...	155
Atwater Kent 84 cathedral, w/new power transformer, vg	450
Atwater Kent auto ignition switch	25
Atwater Kent R power unit	25
Bose 901 speaker system, (2) speakers, equalizer, & paper	175
Bristol Audiophone Jr. horn speaker, g driver, g ..	150
Bunnell early telegraph practice set, key & sounder completely mechanical, unique, vg	70
Bush 1090A, English Bakelite set, (2) knobs, MW & LW	135
Capehart TD-1 8-track tape player, N.I.B.	15
Champagne bottle music radio, 2.5' tall, f	125
Clifton 2-dial, 1-tube, early battery set, vg	105
Coronado 1070A tombstone, (4) knobs & PB, g ...	40
Crosley 124 cathedral, w/extra 47 tube, w/(2) blue tubes, g	115
Crosley 127 cathedral, 1931 model, (3) knobs, vg	175
Crosley American & Overseas plastic table set, 4 knobs, g	65
Crystal set, Erickson, Swedish crystal set, w/headset, vg	500
Crystal set, Federal Jr. crystal set, w/headset	225
Crystal set, Heathkit crystal set, w/headset	200

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.

Crystal set, Marconi postcard crystal set, contemporary, in box	155
Crystal set, MRL crystal set, built by Bill Holly, wood case, vg	50
Crystal set, Philmore 7001 crystal set, in box, p ...	55
Detrola 335A wood table set, (4) knobs, g	125
Dictogrand horn speaker, g	250
Electromatic 607A wood table radio/phono, g	55
Emerson BM 331, w/Ingrahm case, (3) knobs	35
Emud T-7, 1950s plastic table set, vg	40
Fada 1001 wood table set	30
Fisher TR 5120 cassette tape deck & turntable	15
GE 8500 plastic set, g	65
GE Brass Blade 12" fan, restored, vg	175
GE Mickey Mouse clock radio	25
General Motors "Lil General" cathedral, f	30
German "Peoples Radio," 220-volt, wk, vg	475
German transistor radio, in shape of a pistol, in box	50
GR 65A Impedance Bridge	20
Hallicrafters S-38B, w/paper	80
Hallicrafters S-38B, g	25
Hallicrafters Sky Buddy	35
Hallicrafters SX-100, w/paper & speaker	200
Harmon Kardon 330C receiver	20
Hasbro toy Code Blinker light, in box	25
Heathkit Q meter	10
Heathkit SB-303 receiver, w/box, vg	225
Hickock 6000A suitcase tube tester	500
Jackson Bell cathedral, tulip grille, (3) knobs, g ...	325
Jensen GF-3C speakers, (2)	20
Kenwood KF-8011 audio de-noiser, w/box & paper	30
King small tombstone style, (2) knobs, nice	115
Lafayette HA-230 receiver, w/paper, g	25
Leader 503A 5" scope	25
Link police FM transmitter, (3)	15
Microphone, Electro-Voice 666 studio microphone, w/connector	150
Microphone, Turner 33D microphone, N.O.S., no stand	70
Microphone, Turner 99 dynamic microphone, no stand	65
Microphone, Turner 500 dynamic microphone, on desk stand, w/cloth cover	55



This RCA La Siesta radio was marked at \$575 in the flea market.



This Dictogrand horn speaker with a good driver, sold in the auction for \$250.

Military, SCR-392 receiver, w/PS & speaker	450
Military, Belmont BC-348L, w/AC PS	30
Military, Northern Electric Fullerphone Mark 4, wood box	85
Military, PA system amp & speaker	95
Military, TV-6/U tube tester for Electrometer tubes	60
Military, Wells Gardner BC-348N, w/AC, PS, no mount	65
Muirhead early lab condenser decade box	205
Murdock double pole antenna transmitter/receiver switch	55
Murphy Bakelite table radio, English, MW & LW, vg.	80
Music Master horn speaker, w/spruce bell, g driver	100
Music Master horn speaker, w/wood bell, g	60
National interference eliminator, f	55
National NC-183, recapped, g	150
National RTK receiver, made for CAA	45
Paragon VT control unit, N.I.B., but chip in panel (dropped during auction preview)	185
Parts, (3) boxes of Aero plug-in coils, g	65
Parts, Atwater Kent green tuning condensers for a breadboard, (2), g	125
Parts, WE 212C input transformer	35
Philco 38-15, brown plastic, vg.	35
Philco 84 cathedral, g	60
Pilot Super Wasp, w/all coils, g	300
Radio-lectric tool kit, set of tools sold specifically for radio repair, 1920s, unique	95
Railroad relay, heavy duty, in large glass case	20
RCA 100A speaker, w/impedance matching switch & transformer, g	75
RCA BP-10 portable, f	90
RCA Radiola 18, no hood, g	20
RCA wood table radio/phonograph, (4) knobs & PB	25
Realistic DX-100 receiver, g	15
Remco Caravelle radio toy set, in box, f	25
Rubicon Mirror Galvanometer	25
Scott, E.H., Allwave 23, (2) chassis only, chrome p	125
Seville 5607, AM/FM stereo phono & (8) track & speakers	10
Silvertone 6125, (4) knobs & PB, nice	45
Silvertone 8230 wood table set, (2) knobs	25
Silvertone grandfathers clock, w/shortwave converter built-in, unique, g	500

Sterling "Little Dinky" horn speaker, g driver, very nice	250
Stevens (English) horn speaker, g driver, vg	225
Stromberg-Carlson 1101, white Bakelite, (2) knobs	25
Supreme 385 tube tester, wood case, vg.	100
Supreme TV 11 tube tester, wood case, w/paper ..	10
TV, Emerson 600 portable TV, minus all knobs, p. 35	
TV, Motorola BT 71 wood table TV, w/new pix tube, p	35
TV, Motorola suitcase portable TV, g	60
TV, Philco Safari TV	125
TV, Pilot 3" TV, g pix tube, g	150
Vibroplex 1914 # 4 bug	150
Vornado 6-transistor radio	25
WE 4D receiver, WT, restored	600
WE 518 tall horn speaker, chip in bell	75
Weston 519 small set tester, w/paper	45
Whimhurst static machine, g	225
Winchester small dry radio battery, g	30
Wood piano radio, wk	175
Zenith 6T10, Bakelite, white knobs, g	40
Zenith R 600 Trans-Oceanic	45
Zenith Royal 500 transistor radio, black	50
Zenith Royal 7000-2 Trans-Oceanic, f+	175

(Ray Chase, 1350 Marlborough Ave., Plainfield, NJ 07060)

Ray Chase has been a radio enthusiast and a collector of many types of radios for years. Currently, he specializes in World War II electronics equipment, as well as early battery superheterodynes. He also has an extensive collection of radio documentation and ephemera.

The Antique Wireless Association (AWA) publishes "The AWA Journal Quarterly" and "The AWA Review" annually. Dues are \$20 U.S.A.; \$25 elsewhere. The association holds a national annual conference and regional meets and maintains a museum. P.O. Box 421, Bloomfield, NY 14469. www.antiquewireless.org.

WITH THE COLLECTORS

The Sony Model CF-580 Have Boombox — Will Travel

BY ANDREW HAYDEN

Andrew Hayden's article continues on the theme of his previous A.R.C. articles on high quality audio items of the mid-20th century. (Editor)

By the early 1980s, the boombox phenomenon had exploded and virtually every young person wanted one. It also seems that every manufacturer offered at least two or three different models, from small and light to big and loud. Between 1980 and 1985, the prices kept dropping on these AM/FM stereo cassette players. Unfortunately, so did the quality of many of them. The competition became so fierce that companies kept undercutting each other's pricing. Millions of units were on the streets by mid-decade. Some had different brand names, but were, in fact, the same product with a slightly modified appearance.

In the early to mid-1970s, quite a few smaller monophonic AM/FM cassette players were on the market, but precious few stereo radio/cassette players in a package that came to be known as the "boombox." One of the first was the Sony CF-550 from 1971 which really set the standard for these integrated units.

The actual first one on the market is something audio collectors of the 1960s and 1970s enjoy debating. There were several incarnations in the late 1960s, but these seemed to be more of a novelty rather than a refined product. Sony's 550 was different — it had quality, styling, and durability. Sony had built its reputation on these traits across its entire product line. The design reflected an aesthetic which values symmetry — modern, yet conservative.

THE SONY MODEL CF-580

It was in 1976 when the big brother to the CF-550 was introduced, the CF-580. It was Sony's flagship portable cassette player/radio, a very impressive piece of equipment, which cost \$400. This is what a decent component system went for back then.



Figure 1. The Sony Model CF-580.

Nostalgia was the inspiration for my recent purchase of the CF-580 shown in Figure 1. I was in high school when my father brought a brand new one home one day. Being a kid who liked fine radios, I was impressed! The contours of the cabinet were smoothed out and the overall size was larger than the CF-550, measuring 16" x 12" x 6".

The cabinet materials of this set are high density, charcoal-colored plastic, brushed and polished aluminum, die-cast knobs, and very nice toggle switch controls. With its eight D cell batteries on board, it weighs a whopping 18 lbs. I think the fit and finish of this Sony is fantastic, unlike the offerings from many other makers. Features include the ability to play three types of cassette tape — normal, Ferric Oxide (Fe₂O₃), and Chromium Dioxide (CrO₂). A close-up of the cassette drive is shown in Figure 2.

Two built-in condenser microphones, along with jacks for external mikes, are on the front panel, in addition to the headphone jack. An angled linear

dial panel for AM/FM reception with a tuning meter and a stereo/mono switch are nice touches. Twin rabbit-ear antennas provide excellent FM reception. This Sony is listed at two watts of audio power output per channel with only 2 percent total harmonic distortion. It has separate bass and treble adjustments, a combination automatic frequency control-interface suppress switch to lock in stations, and a sliding balance control.

A very nice 4-speaker matrix system has two 4" x 6" oval speakers on the front panel and a 3" x 5" oval speaker on each of the side panels. This layout gives a very full spatial quality to the sound. The front panel of the CF-580 is accurately labeled "Super Wide Sound." The back panel has an AC plug socket, line-in and line-out, a phono input, plus a pair of extension speaker jacks.

WHY IT STANDS OUT

I've owned a variety of porta-



Figure 3. An advertisement for the Sony CF-580, a 4-speaker Matrix stereo sound system touted the first complete stereo cassette system that was also portable.



Figure 2. A close-up of the cassette drive.

ble radios and boomboxes through the years and what really stands out with this Sony CF-580 is the overall classy modern appearance, the impressive sound quality, and the feeling that this piece of equipment was designed to last forever. It is really built, which leads me to what I feel is its only shortcoming — its weight is 6-7 pounds heavier than many other units its size, a shortcoming I can live with. An advertisement for the CF-580 is shown in Figure 3.

Sony continued to make a wide variety of boomboxes in the coming years, some very impressive. However, they seemed to lose that "we

make the best" reputation with many of their offerings when production was moved out of Tokyo, Japan, the location of company headquarters, to other parts of Asia in the mid-1980s.

Today, we're used to very small digital music formats like the iPod, which fit into a shirt pocket. But, there's something really nice about having a portable unit that can be proudly set on a mantle and can fill a room with sound. Yet, you can still grab it by the handle and head out on the road. Observing selling prices of the CF-580, I find that they seem to go for over \$100 these days. When offered for sale on the Internet, sometimes the price goes to over \$200, which is evidence that collectors do, indeed, like them.

References:

- Sony Design History – www.sony.net.
- Boombox Museum - www.stereo2go.com.
- Sony CF-580 Instruction Manual.
- Sony print ad, 1976.

(Andrew Hayden, 4 Barton Ct., Newburyport, MA 01950, ash2222@verizon.net)

Andrew Hayden is particularly interested in the history of electronic companies and in high quality audio equipment. He has collected and researched vintage KLH electronics for over ten years.

WITH THE COLLECTORS

Lucky Literary Find at Auction

BY OLIN SHULER

Sometimes the unexpected addition to an auction purchase can lead to a trip back in time. Olin Shuler reports on his two hours well spent with an old radio magazine. His article takes your editor back in time also. In 1958, I was a senior in high school, very much into high fidelity and had built several Heathkits myself. (Editor)

This story contains elements reminiscent of those in the film *Forrest Gump*, when the "hero" innocently walks through scenes where historically significant things are happening, right before his eyes.

There I was, sitting on the front row at a Saturday morning antique radio auction conducted by the Mid-America Antique Radio Club (MAARC) in Kansas City. The auction was winding down, when up came a 1950s vintage DuKane audio amplifier — about a 25-watt. I listened for bids, but heard none, while admiring the substantial size of the power and output transformers, plus three nice power tubes. "This might be useful," I thought, and was about to bid, but there was silence. No other bidders.

The auctioneer reached down and picked up a cardboard box containing a few old radio magazines, placed them under the amplifier and said, "Now, do I have five dollars?" Up went my bid card and more silence, until the words, "Sold — number 753, Five Dollars!" It was mine.

After the auction, I had two hours to spend waiting to meet a friend. I went to a nearby fast foodery for lunch. Convinced that it was not good form to examine a 50-year old boat anchor amplifier while sitting in a restaurant booth, I took the magazines in with me instead. Included was a *Radio & Television News* from January 1958, a time when I was four years into a 21-year stint in production engineering at Motorola. "There should be things in here that I have long since forgotten," I thought.

Indeed, here was a fascinating time-capsule showing the industry in the pre-dawn hours just before the immense popularity of stereo sound, its accom-



Figure 1. The *Radio & TV News* cover for January 1958 shows a "nicely styled, yet compact high-fidelity system." The speaker is a University Ultra-Linear S-10L 2-way speaker system with 12-inch woofer. The electronics are an H.H. Scott Model 99-D, 22-watt amplifier, and an H.H. Scott Model 330-C tuner with independent AM and FM sections. The turntable is a Rek-O-Kut B-12H.

panying revival of FM radio, and other pivotal events.

HI-FI AND STEREO

The magazine cover, in full color, showed top-of-the-line high fidelity equipment, with a pretty girl and all. Very '50-ish! See Figure 1.

High fidelity equipment articles were plentiful, with multipage advertisements from Heathkit, Knight Kit, TeleMatic, and others. See Figures 2, 3, and 4.

The promise of stereo disc recordings tantalized industry during the annual High Fidelity Show just completed in New York. Two possible technical stan-

dards were up for grabs; one from London Records in England and the other from Western Electric (the one that was finally chosen).

News was out that RCA-Victor, Capitol, Columbia and Decca were acquiring Western Electric cutting heads capable of either standard. Availability of the first stereo discs was anticipated in about one year at an estimated cost of \$45 to \$60 each.

There was a project that could be built to receive stereo sound over the radio. This was about two years prior to FM multiplex, and about a year before stereo records.

In some metropolitan areas, a few combined AM and FM stations were doing stereo sound demonstrations using AM for one channel and FM for the other. The advertisement in Figure 4 shows such a tuner and accompanying amplifiers. [Attending college in Boston, Mass., in the late 1950s, your editor listened to the Boston Symphony stereo broadcasts over AM and FM stations, with each broadcasting one channel.]

Public demonstrations of stereo sound were being presented in New York City at Steinway Hall, on 57th Street. Limited quantities of stereo tapes were available.

One report said that in private meetings at the High Fidelity Show, inventor Murray Crosby demonstrated his fully compatible FM Stereo Multiplex transmission system to key broadcast executives. Arrangements were being made for initial trials in the New York City area with WABI-FM. The target date was March, 1960. By that time, it was felt that adapters would be readily available. (Later, I was the production engineer when Motorola manufactured adapters for upgrading their console stereos.)

PAY TELEVISION

Then, there was another article on a proposal from the FCC for pay television. It would allocate over-the-air channels (this was before cable) where viewers would pay for supposedly "superior" quality program-



Figure 2. From Allied Radio, an advertisement for a Knight-Kit 20-watt amplifier.

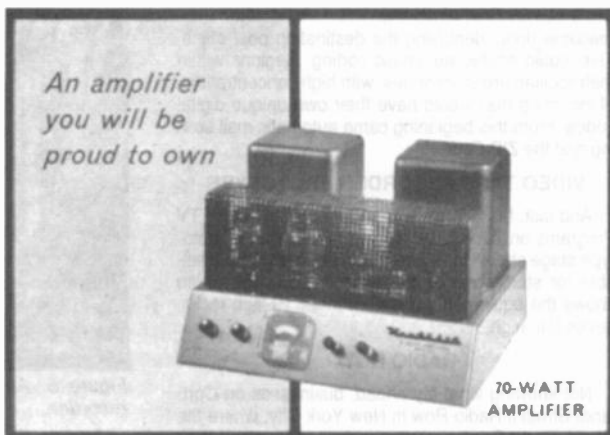


Figure 3. A 70-watt amplifier from Heathkit.



Figure 4. An AM/FM tuner kit from TeleMatic.

ming (a pre-historic HBO). Zenith, Blonder-Tongue, and International Television proposed various toll collection schemes.

The media was talking about it, while Congress was deciding whether or not to authorize a trial period. There was not much favorable comment, I recall, and Congress never brought it to a vote.

DIGITAL CODES FOR U.S. MAIL

In other technical news, the US Post Office, and the National Bureau of Standards were developing a method of encoding pieces of mail, letters, with digitally
(Continued on following page)

Lucky Literary Find, continued)

readable dots, identifying the destination post office. This would enable automatic sorting. Regions within metropolitan areas, or states, with high concentrations of incoming mail would have their own unique digital codes. From this beginning came automatic mail sorting and the ZIP Code.

VIDEO TAPE RECORDER PROTOTYPE

And last, but not least, RCA announced "Color TV Programs on Tape." The video tape recorder in prototype stage shown in Figure 5 was forecast to be available for studio use by the end of 1958. The photo shows the equipment housed in three 19-inch racks, seven feet high.

RADIO ROW

Not knowing what lay ahead, businesses on Cortland Street's Radio Row in New York City, where the World Trade Center was to be built, advertised their wares, optimistically looking to the future. An advertisement for Airex Radio Corp., 64 Cortland Street, is shown in Figure 6.

What a day, what a day! The two hours passed quickly, while snippets of a misspent youth passed before me once again. And all because I took a few seconds to consider the value of heavy iron and vacuum tubes in a 50-year old amplifier. Is this a great hobby, or what?



Figure 5. An RCA prototype color video tape recorder.

(Olin Shuler, 909 Christopher Ct., Quincy, IL 62305)

Olin Shuler, W9PQD, is a retired quality engineer in electronics and automotive components fields. His collection focuses on Motorola home and auto radios made in the plant where he worked from the 1950s to the 1970s. Amateur radio items from the 1940s and 1950s, as well as beauties from the roaring 1920s and mid-1930s fill out the collection.

AIREX

FREE

WITH ANY KIT OVER \$47.95 WE GIVE YOU A WELLER SOLDERING SET

WITH KIT UNDER \$47.95—UNGAR SOLDERING SET

HIGH-FIDELITY KITS . . . Do It Yourself & Save-Top Quality-Leading Mfrs.

ARKAY HI-FI KITS

ST11 STEREO TUNER
KIT \$47.95 WIRED \$69.95

Stereo FM-AM ahead with automatic antenna retuning or manual tuning. FM has 40% sensitivity for 30 db quieting. AM has 40% sensitivity for 20 db quieting. Includes 4 db 20-20,000 cps. 4 db AF, 4 db AF, 4 db AF, 4 db AF.

60 WATT HI-FI POWER AMPLIFIER

Ultra-Linear HF60
KIT \$72.95 WIRED \$99.95

Rated power output: 60 w (150 v peak) 100 ohms load less than 1% at 60 w; less than 0.5% at 60 w. Maximum distortion less than 0.5% at any freq. between 20 cps to 20 khz within 1 db of 60 w. Sensitivity 0.55 v for 60 w. Dumped Factor 17. Inverse Feedback 21 db, Stability Margin 15 db. More 90 db below rated output. AGC 70-300 Output Transformer (fully potted), Speaker Taper 4, 8, 16 ohms. 635A ultra-cold rectifier. Input level control. Rich tones and DC-coupled audio. Full metal cabinet painted. The professional power falls at 200 W x 1 1/2" x 1 1/2". The Matching cover Model B-1, \$4.95.

EICO HI-FI KITS

20 WATT HI-FI AMPLIFIER HF 20

ULTRA LINEAR WILLIAMSON-TYPE
With Preamp, Equalizer, Control Sock.
KIT \$49.95 WIRED \$79.95

A low-cost, complete fidelity amplifier of the highest quality. Rated Power Output 20 w (150 v peak) 100 ohms load at rated power. 100% Max Harmonic Distortion between 20 & 20,000 cps at 1 db output rated power. Sensitivity 1.5 v. Power Reserve (20 w) 200 db. 10-20,000 cps. 5 total-harmonic equalization for LPs & 700. Low-distortion feedback tone controls. Automatic control & automatic level set control on input panel. 4 control tone caps. 100% 20-20,000 cps. 2 low-level inputs for proper control with all recordings. Hum free control. DC-coupled with 60 ohm output. 1 1/2" x 1 1/2" x 1 1/2". The Matching cover Model B-1, \$4.95.

HI-FI PREAMP

KIT \$24.95
WIRED \$37.95

With Power Supply—KIT \$20.95; Wired \$44.95

Will not add distortion or delay from the white band or transient response of the input signal. At any control setting. Feedback tone, sharp cutoff (15 db/octave) control & remote filter. Low-distortion feedback equalization 1 equalizing curve for LPs & 700. The unique RIAA feedback tone controls. Controls for automatic control. 4 hi-level controlled inputs (1000, 10, 100, and 1) 3 low-level inputs. Reverse pick-up loading & compensation provided for all recording techniques. 4 control tone caps. Automatic level indicator. Hum free. 1 1/2" x 1 1/2" x 1 1/2". The Matching cover Model B-1, \$4.95.

All merchandise is brand new, factory fresh & guaranteed. Most 60-day money back on receipt of certified check or 90% of 90% of items on a deposit balance. C.O.D., P.O., N. Y. Prices & specifications subject to change without notice.

AIREX RADIO CORP.

CORTLAND ST., NEW YORK 7, NEW YORK CORTLAND 7-2137

Figure 6. Snippets from a full-page ad for Cortland Street's Airex Radio Corp.

RESTORATION TOPICS

Making Plastic Dial Covers At Home A Narrative from a Beginner's Point of View

BY DANIEL SCHOO

As in previous articles, Daniel Schoo gives us a careful step-by-step guide to a restoration project. Dan always makes us stop and think, "Why not do it myself?" (Editor)

Anyone who collects old radios knows the problem of shrunken plastic dial covers. A dial cover is the transparent plastic window that covers a radio tuning dial. Transparent plastics from years ago could not hold their shape over time. Aging causes the dials to become yellow, distort, and often split or tear. Figure 1 shows a classic example of this problem — the dial on my Templetone Model BP2-A5 military "morale" radio. No matter how much work you put into getting the radio in working order or restoring the cabinet, a dial disaster mars the appearance.

There are several individuals who make replacement plastic dial covers to order. They provide a nice new cover at a reasonable price. Unless the dial is an unusual shape — for example, the one used in the Crosley model 63TA "Victory Model" with a large window area that curves inward 90 degrees at the top — it is fairly easy to get a new cover. Simply trace the outline of the dial opening onto a piece of heavy paper or cardboard and send the tracing out to someone who does this work. Often the people who do a lot of these covers have a number of molds already in stock and can make a cover for you from just the make and model information.

I became interested in dial cover fabrication when I started a restoration project on a radio with a shrunken split dial cover. In the past, I have ordered custom dial covers, but I never gave much thought to making one myself. Besides finding the right plastic material, I always thought it would require special equipment and talent.

Then I saw an advertisement for www.dialcover.com.



Figure 1. The cracked and deformed dial on my Templetone radio.

They advertised kits of the materials you need to make your own dial covers at home. The price of a kit was the same as a single professionally produced dial cover, and there was enough material in there to make several of them. There were two sizes of kits offered — a small size with 6½" square sheets of plastic and a large size with 11" square sheets. That sounded interesting and cost effective so I ordered a large kit.

The kit had three sheets of plastic and three pieces of 11" square, ¼" thick, 5-ply plywood to make the molds. There was a page of instructions included, but for someone who is doing his first dial cover, the instructions were a little vague. The basic idea is not complicated, so I managed to figure it out. Once you have successfully made one and see how everything works you don't need instructions.

After I had made my first cover, I decided to do some further research and share with others what I had learned. A little Web searching, along with some practical experiments,

(Continued on following page)

(Plastic Dial Covers, *continued*)

filled in some vital details, which I will share.

THE BASIC MATERIALS

For optimal results, you need a transparent plastic that can be easily softened by heat and conformed to a mold — a process called thermoforming. An easily formable thermoplastic material such as PVC (Polyvinyl Chloride) or Vivak® PETG (Polyethylene Terephthalate Glycol) works very well.

PVC is used extensively in blister and clamshell packaging and is identified by the recycled plastics code number 3. PETG is less popular in the packaging industry, but it has the advantage of being easily available in very small quantities in the .020-inch thickness used for making dial covers. It is soft and rather easy to scratch, so it is sold with a protective film on each side that you peel off. PVC does not come with a protective film, and therefore, can be scratched or hazed in shipment.

The mold material should be something that can stand moderate heat, is capable of producing a smooth, splinter free, cut edge, and can be easily shaped when it is sawed. I have heard about people using materials such as corrugated cardboard for molds and this does work, but it is difficult to shape in other than a plain square edged block, and it isn't very firm. A better material is something like plywood or Masonite. For consistently good results Baltic Birch 5-plywood is recommended. Baltic Birch ply has a fine grain, no voids, and many plies for stability and quality of the cut edges.

You can use common plywood with fewer plies, especially for the outer part of the mold that is not so critical, but it won't cut as smoothly and can splinter more easily at the edges. Dial cover molds typically use ¼" thick plywood, but you can vary this depending on the depth of the cover that you make. The outer mold should be ¼" or thicker plywood. It is important that the mold and the base under it be absolutely flat and sturdy. Warped or flimsy molds will not produce good results.

THE PROCESS

The example discussed in this article is the dial from the Templetone Model BP2-A5 military "morale" radio shown in Figure 1.



Figure 2. Tracing an outline of the inside of the dial opening.

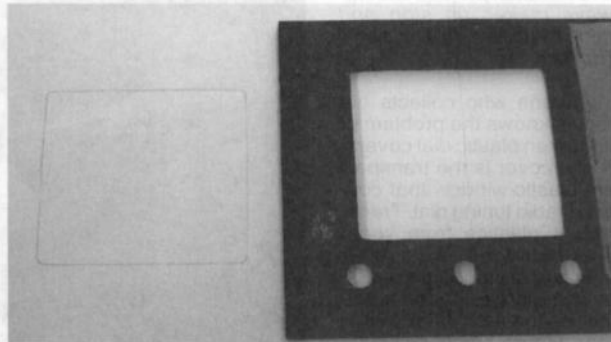


Figure 3. The traced pattern to be used for both the inner and outer molds.

To begin, I removed the old dial cover and cleaned out the dial opening of any remaining cover pieces or dirt. You need to make a transfer pattern of the dial opening in order to make a mold. The finished mold consists of two parts — an inner solid sheet the size, shape and depth of the dial cover, and an outer sheet with a hole matching the inner mold. The two halves need enough space for the plastic to slip in between them comfortably. A little more space won't make a lot of difference, but too little will bind and damage the soft plastic.

Take a piece of cardboard or heavy stock paper such as a file folder and trace an outline of the inside of the dial opening onto the cardboard, as shown in Figure 2. To get a pattern from some radios, it is better to place a sheet of cardboard inside the cabinet. Hold it tightly against the front and trace the outline of the opening onto the cardboard. Some radios like the Zenith Model 6D029 "Boomerang" have a separate metal trim piece around the dial that holds the dial cover. You can remove the trim piece from the cabinet for better access when you trace it.

Now that you have the pattern drawn (see Figure 3), carefully cut it out along the inside of the tracing line starting from the outside edge of the sheet and cut into the marked

perimeter. Save the inner "donut hole" part that you cut out and discard the surrounding cardboard. Try the pattern to check its size and shape against the hole in the radio. Verify that the pattern fits easily inside the opening without binding and that it matches the shape, as shown in Figure 4.

For the inner part of the mold, use a sheet of material, usually wood, a little larger than your dial opening and of the same thickness that you want for the depth of the dial cover. Some professionals use $\frac{1}{4}$ " thick plywood, but for my Templetone, I used a scrap of $\frac{1}{8}$ " thick Masonite because the original cover was about $\frac{1}{8}$ " deep, and I wanted to match it. If you want a $\frac{1}{4}$ " depth, use $\frac{1}{4}$ " inch thick material.

The instructions included with the www.dialcover.com kit direct you to cut the mold with a jig saw (a term that some people use when referring to what is now more commonly called a scroll saw) using a 0.018-inch thick saw blade to cut out both halves of the mold in one operation, saving both the hole and the surrounding sheet. You have to start at the outside edge of the plywood sheet and cut into the center hole leaving a narrow slot in the outside mold. If you do that, it will make the two halves match very well with just enough space between them for molding the plastic material. This would use less plywood and take less time than cutting two separate pieces which is important for people who make a lot of these. Since I don't have a scroll saw, I found it easier to use two separate pieces and cut each half of the mold separately using a saber saw (a.k.a. a jig saw). This is also necessary if you are using two different mold thicknesses as I did.

Place the pattern in the center of the inner mold material and draw a line around the outside of it, as shown in Figure 5. Remove the pattern and carefully cut the sheet along the center of the line. You can use any convenient tool with a fine tooth blade, such as a saber saw, scroll saw, or band saw. If you absolutely have to, you can also cut it by hand with a hacksaw blade, coping saw, or keyhole saw, but it's really hard to hold a straight true line cutting with hand tools.



Figure 4. Checking the fit of the pattern.

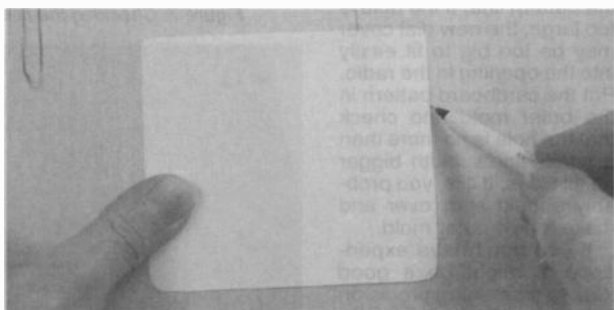


Figure 5. Tracing the pattern for the inner mold.

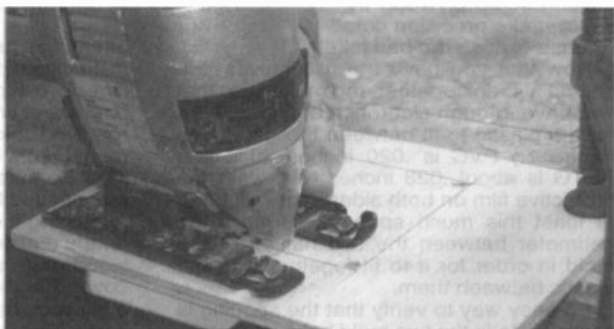


Figure 6. Cutting the outer mold.

After you cut out the inner mold, lightly sand the edges on a flat surface to smooth out and straighten any rough areas or splintering, and round the edges a little. The inner mold should be sanded as smooth and clean of any particles or splinters as possible. The finished dial will closely match the shape and surface texture of this inner mold much like stretching a balloon over a book. If the dial cover should have a smooth rounded edge, then smooth out the edges of the mold to the desired shape matching the original cover.

For the outer part of the mold, start with a sheet of $\frac{1}{4}$ " thick plywood several inches larger all around than the cover. Place the pattern in the center and draw a line around

(Continued on following page)

(Plastic Dial Covers, continued)

it. This time cut a hole in the plywood along the center of the tracing line, shown in Figure 6, and remove the part inside the hole. Sand the rough surfaces of the outer mold smooth but don't round off the edges.

After making the outer mold, verify that the hole is not larger than the actual dial opening. The size of the hole will depend on the width of the saw blade that you used and how closely you followed the pattern line. If the hole is too large, the new dial cover may be too big to fit easily into the opening in the radio. Put the cardboard pattern in the outer mold and check that the hole is no more than a pencil line's width bigger on all sides. If it is, you probably should start over and make a new outer mold.

If you don't have experience, it might be a good idea to try making precision cuts on scrap plywood. Otherwise, you may experience making scrap plywood trying to make precision cuts. (Please excuse the bad joke!)

Now that you have the two halves you should fit them together and make sure that you have enough clearance between them for the plastic to fit between the gap. (See Figure 7.) PVC is .020 inches thick and PETG is about .023 inches thick with the protective film on both sides. You will need at least this much space all around the perimeter between the two halves of the mold in order for it to fit together with the plastic between them.

An easy way to verify that the spacing is correct is to fit the two mold halves together and put some small strips of the plastic material that you are using into the gap between them. One strip on each side takes up just the amount of space necessary in each axis of the mold. The strips should fit between the two halves of the mold without becoming stuck anywhere along the length of the side. Test all sides of the mold for proper fit and sand any areas of the inner mold that are too tight. Don't sand the outer mold or you risk making it too big. It is always better that the cover be a little smaller than too big.

When the mold is done you are ready to make your dial cover. Cut out a piece of the plastic at least an inch larger on all sides than the old dial cover. You can trim it to size later

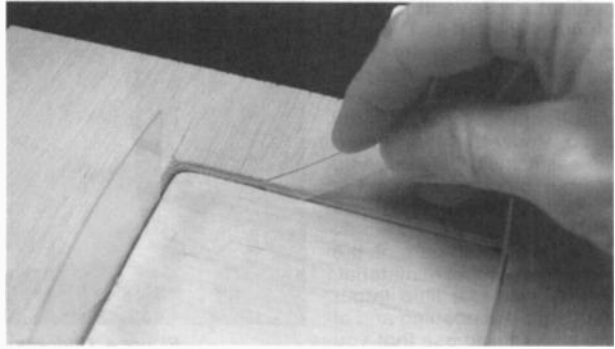


Figure 7. Checking the fit of the inner and outer molds.

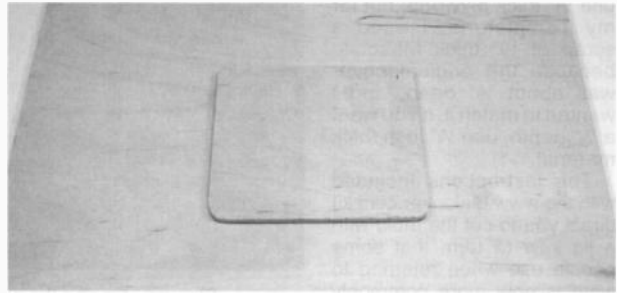


Figure 8. First, place the inner mold on a base plate.

after it has been molded. The dialcover.com instructions direct you to leave the protective film on the plastic for molding. The PETG data sheet implies that the protective film be removed before molding, and I found that the results were better when I did.

Make sure that the inner mold is clean, smooth and free of particles. The process of stretching the plastic in the mold can transfer the outline of particles, dirt, and even the wood grain and surface texture to the dial cover. For the first try, I stacked the parts on a plywood base a little bigger than the mold parts. First the inner mold went in the center of the base, as shown in Figure 8. Then I centered the plastic on top of it, as shown in Figure 9. The outer mold went on top of the plastic sheet centering the hole over the inner mold below, as shown in Figure 10.

Initially, for molding PETG, I followed the instructions and preheated the oven to 250°F. If you mold PVC, a setting about 50°F higher works better. When the oven was hot, I put the mold stack in and allowed it to heat for 8 to 10 minutes. See Figure 11. After it was heated, I removed the stack from the oven using heat-resistant gloves for protection. I put the mold on a sturdy flat surface and pressed down on the outer mold, as shown in Figure 12, forcing the plastic film down over the inner mold until the outer mold was flat against the base. I held

it there securely until it was cool.

POSSIBLE PROBLEMS AND SOLUTIONS

When the plastic gets hot, it becomes soft and rubbery. When you press the mold together, it has a tendency to push apart slightly because of this. It is important to clamp the mold tightly on all sides while the plastic is cooling. If you don't, the edges can buckle and the plastic can shrink.

Here is where things got interesting for me. The instructions with the kit say to leave the protective film on the PETG. When I left the film on, I ended up with patterns molded into the surface that looked something like water marks. When I removed the film before I molded the PETG, that eliminated the marks, but other things happened.

For example, one thing that caused big trouble was moisture. About a minute after removing the mold from the oven, condensation formed on the inside surface of the dial cover. If left there, it would permanently haze either type of plastic material. To prevent this from happening, I held the mold together as long as there was no haze forming. As soon as I saw a haze start to form, I quickly took the mold apart and let the plastic continue to cool in air. That completely eliminated the hazing and made the clearest cover that I had seen so far. However, it wasn't easy. The plastic was not quite cool enough, and it stuck to the mold. Also the edges were still soft, and they would buckle a little, especially when molding PETG.

To solve the moisture problem, I tried a couple of things to prevent condensation. First I covered the inner mold with aluminum foil to seal in any moisture. That did prevent condensation, but unless I applied the foil absolutely flat and perfectly

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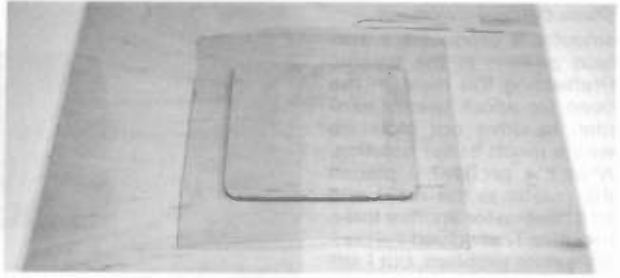


Figure 9. Then, place the plastic sheet over the inner mold.

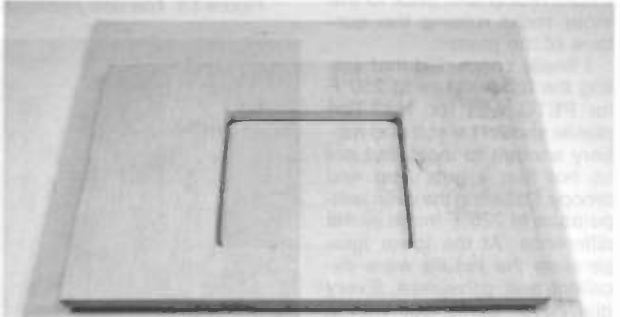


Figure 10. Finally, place the outer mold over the plastic sheet.

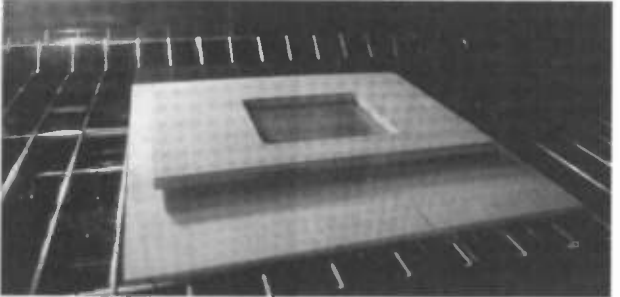


Figure 11. Place the mold stack in the oven. (Note, for this and the following figures, a different dial cover is pictured, one using the thinner, Masonite inner mold.)



Figure 12. Press on the outer mold to form the new dial cover.

(Plastic Dial Covers, continued)

smooth, it produced a surface pattern in the plastic. Preheating the mold in the oven for about twenty minutes to drive out moisture was a much better solution. After the preheat, I placed the plastic in the mold and let it heat up for another three minutes. That solved the condensation problem, but I still wasn't getting consistently good results. The plastic would droop and stick to the inner mold ruining the surface of the plastic.

I finally concluded that setting the temperature to 250°F for PETG was too hot. The plastic should be soft and rubbery enough to mold, but not so hot that it gets limp and droopy. Lowering the oven temperature to 225°F made all the difference. At the lower temperature the results were excellent and consistent. Every dial cover came out with a beautiful clear surface and molded well. See Figure 13.

To sum up, I preheat the mold for twenty minutes at 225°F to expel moisture. Then I put the plastic in the mold and heat it up for another three minutes. When the plastic has heated, I remove the mold stack from the oven and press the mold together tightly until it cools. It takes about five minutes for the plastic to harden sufficiently enough to remove it from the mold, but don't be in a hurry.

After the plastic is cool, remove it from the mold and trim the edges of the dial cover so that it will fit inside the radio leaving enough around the outside to attach it to the case. Comparing the size to the old cover will help with this (see Figure 14), but remember the old cover has shrunk, so allow for that. Place the cover in the dial opening, shown in Figure 15, and secure it with whatever means the radio manufacturer used. Often for wood radio cabinets they simply tack stapled them in. For Bakelite, they might have used small metal press-in "trimounts" or small screws. For radios with metal trim around the dial, you may have to cut small slots or holes in the dial cover to fit over metal twist tabs on the trim.

The new dial cover mounted in the Tem-



Figure 13. The new plastic dial cover still on the inner mold.

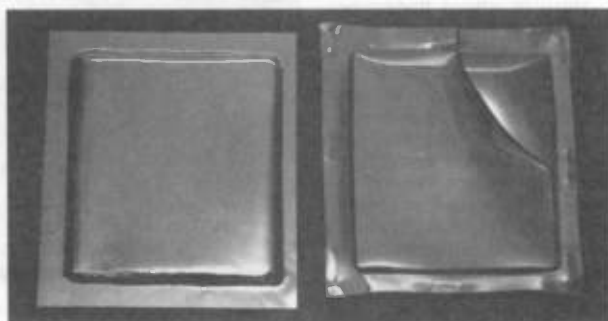


Figure 14. Comparing the old and new dial covers.

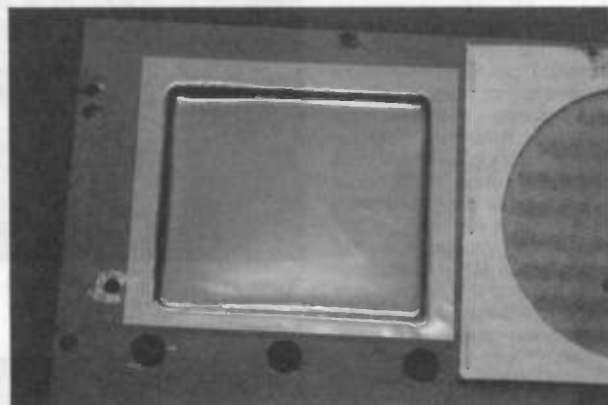


Figure 15. Placing the new dial cover in the front panel of the Templetone.

pletone radio is shown in Figure 16.

The dialcover.com instructions actually work quite well, if you don't mind a little watermarking of the cover. You get fairly repeatable results, and the instructions are uncomplicated. The protective film watermarking may be less severe at the lower temperature setting, but I did not try it.

I have used both PVC and PETG in tests and both produce acceptable results. PVC holds its size well, while PETG sometimes has a tendency to shrink a little. I left extra

around the outside of the mold to make up for this and to be sure I had enough to attach to the radio. PETG conforms to the shape of the mold a little better, flattens well, and has a very good surface quality due to the protecting films. This is probably why the professional dial cover makers prefer it. PVC gives more consistent results but may not have as nice a surface finish as the PETG. Many of these problems could just be due to my inexperience at molding plastic, and you may have the same situation.

The ultimate stiffness of the plastic changes significantly depending on your oven temperature. Domestic kitchen ovens can vary by more than 50 degrees from the setting depending on the accuracy of the heat control and the placement of the mold in the oven. As little as 25 °F too high can make all the difference between a perfect cover and a hazed reject. Once you know what setting works for your oven, the results are fairly repeatable. Certainly practice and experimentation are necessary to learn what works better and what doesn't in your oven.

If you regularly do restorations or simply like to do your own work, you can make your own dial covers at home. You don't need a lot of special equipment or tooling. If you can cut a square hole in plywood, you can probably make a dial cover and save a few dollars. Making your own cover also allows you to do some customizing and matching odd shapes, depths or curvature.

After you have some practice at making the mold parts, you can probably skip some of the steps that check for proper size, but for the first several tries I'd rather be sure before I make scrap out of plastic film. Most covers do not have to be made with great precision so some inaccuracy here and there won't matter. As long as the cover fits in the hole and looks reasonably close to the original, you are successful.

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Figure 16. The new plastic dial cover mounted in the Templeone. Compare with the cracked dial cover shown in Figure 1.

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Daniel Schoo, a frequent contributor to A.R.C., is an electronics design engineer with a lifetime interest in antique technology, especially radio and television equipment. In addition to his collection of 1930s and 1940s radios and video cassette recorders, he has a large collection of vintage vacuum tubes, neon lamps, and tube data books.



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1/2 V	7 3/4 x 2 1/4	7 3/4 x 2 1/4	7 3/4 x 2 1/4	7 3/4 x 2 1/4
1/4	3 5/16 x 2 1/4	3 5/16 x 2 1/4	3 5/16 x 2 1/4	3 5/16 x 2 1/4
1/8	1 5/8 x 2 1/4	1 5/8 x 2 1/4	1 5/8 x 2 1/4	1 5/8 x 2 1/4
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FOR SALE: Atwater Kent 44 w/E Type speaker, 70 & 85 consoles & other similar type consoles, 55 and 60C chassis, Keil table radios, L, 89 chassis, others - inquire. Philco 16, 18, 20, 89 other tabletop Philcos, parts and complete sets, 41-295, 95 metal tabletop, others, Philco 38-4 chassis. Many 8, 10 & 12 inch speakers for all types of radios. Send wants. RCA Radiola 17, 18, 33 & 60s, 100 & 100A speakers, others, Mantola 3-band dial glass (model unk, nice!), other lenses, bezels pointers, etc. Truetone D722 console (11-tube allwave, hi-fi), Stewart-Wamer R-148A chassis, RCA Stratoworld 3-BX-671, RCA Microsynchronous R85 console, RCA 121 cathedral, Hallicrafters 5-10 Sky rider, Sentinel 1040 (early '30s R/P, 6 wood knob, small window dial, shadowmeter, unusual), (2) big University corner speakers, Aztec Gougan speaker pair (nice), Wharfedale 60W speakers (early type), small bookshelf Aztec speakers, Several Zenith Trans-Oceanics - inquire. Much more. Motorola 12Y console, Zenith 860, 870, 8S463, 10S153, 10S155, 10S474, others, please double check my old ads for remaining items and send me your updated want lists. Everything here is priced to sell! Shipping on small items is OK, pickup of consoles here at my home is OK or delivery to east coast meets or Ohio auction is also possible. **WANTED:** Clarion Jr. chassis, AK 427 chassis. Wilbur Gilroy, PO Box 459, Lake Winola, PA 18625. (570) 378-2508. E-mail: radiowilbur@frontiernet.net

FOR SALE: Book, Principles of Radio, 1929 by Keith Henney - \$10. **WANTED:** Cabinets for Emerson AX Series, RCA 9TX Series and RCA Model 45X Series, Bakelite or wood. Jim Ligouri, 7 Sycamore Ct., Atkinson, NH 03811. (603) 362-5712. E-mail: jligouri@aol.com

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FOR SALE: Book, Principles of Radio, 1929 by Keith Henney - \$10. **WANTED:** Cabinets for Emerson AX Series, RCA 9TX Series and RCA Model 45X Series, Bakelite or wood. Jim Ligouri, 7 Sycamore Ct., Atkinson, NH 03811. (603) 362-5712. E-mail: jligouri@aol.com

A.R.C. Advertising Policy

Sellers and Buyers, Please Note!

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

FOR SALE: Collins SM-2 microphone, no stand - \$175. CQ (1961-1969) library bound volumes by year, great condition - \$10 per year takes all. Contact: Mike Grimes, 5306 Creekside Ct., Plano, TX 75094. (972) 898-7251. E-mail: k5mlg@verizon.net

FOR SALE/TRADE: Best Offer: Realistic Portavision 5.5-band AM, FM, TV 1-2 VHF 108-174 MHz AC/DC. Realistic Patrolman SW60 6 bands AM, FM, SW-6-18 MHz, VHF hi 108-174. VHF lo 30-50 MHz, UHF 450-512 MHz. Realistic portable AM-FM cassette player #14-1039-A new in box. Symphonic 2102 WA AM/FM radio phono 3-speed AC & batt. Panasonic SG551 AM, radio phono AC batt. Sanyo M730K AM, FM, cassette. Sanyo RPM-C2 AM, FM clock radio in original box. GE #7-2929-A AM, FM, TV 1-2 AC & batt. Longines Symphonet LCR-200 AM, FM, clock radio AC. Speedtron AM, FM, headphones, batt. Panasonic SG350 radio phono AM 2-speed 33-45 batt. jack for expower. Lafayette RK-890 8-track player recorder with manual. Columbia 8-track players #2686, Sansui COM-0953 AC-12 volt DC color 9" TV-VCR combo. Pioneer SX990 AM, FM stereo amp SN 69163, Allied 2515 communications receiver 5-bands, Jeep car radio AM, FM cassette 1 channel not working. Isuzu car radio AM, FM 8-97217-987, Dynatronics AM, FM, stereo car radio AFX802, Dynatronics AM, FM, 8-track car radio, no numbers. Philco floor 37-61P working good cabinet. ECA Electronic Corp. of America working table model. Dewart table J543 RE capet working, good cabinet. Sentinel 248-K table radio phono working, good cabinet. Zenith G-500 6-tube Trans-Oceanic, good cabinet, working. Stromberg-Carlson radio & speaker, no cabinet, working. Philco table 49-504 complete, 1-bad tube, good cabinet. **WANTED:** We are looking for a 12-volt car radio signal seeking AM with a provision for a foot switch to change stations (i.e. '59 Cadillac). Please call. Donnie Kueller, 2671 N.E. 16 St., Pompano Beach, FL 33062. (954) 946-5883, Nov.-April; or (732) 716-9723 late April to mid-Oct. at N.J. summer home. E-mail: jukeboxdonnie2@netzero.com

WANTED: Stewart-Warner 1933 World's Fair radio, any condition. Alex Kertesz, 7860 Montecito, Delray Beach, FL 33446. (561) 495-1017 or (561) 780-2578, cell

WANTED: Antique AC plugs used circa 1920s & 30s. (2) shielded RCA test probes with ohm & volt switch in handle as used in RCA WV98C voltohmmyst. Glass for Baradio, all or partial. Ye Olde Radio Shoppe, 228 Beck Rd., Avon Lake, OH 44012. (440) 933-5668. Fax: (440) 933-8864. E-mail: yeolderadioshoppe@oh.rr.com

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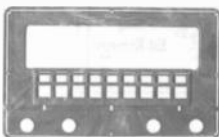
WANTED: Hi-fi commercial speakers: Altec, Electro-Voice, JBL, Jensen, Goodmans, Tannoy, Stephens, Western Electric, working or not. Sonny Goldson, 520 Pcahontas Dr., Ft. Walton Beach, FL 32547. (850) 314-0321. Fax: 0824. E-mail: SonnySound@aol.com

WANTED: 1920s radio parts and tubes in original boxes; also early 1920s amplifiers, tuners, and detectors. Steve Wallace, 3707 Pricetown Rd., Fleetwood, PA 19522. (610) 944-7230. E-mail: soidar@verizon.net

WANTED: 16-tube or 25-tube Zenith Stratosphere, complete or cabinet only. Chassis parts also needed. Will trade from our vast array of fine radios. Alan Jerspersion, 5200 Bloomington Ave., Minneapolis, MN 55417. (612) 727-2489. Fax: (612) 821-4820

WANTED: Any audio hi-fi amps, speakers, tubes by Western Electric, Tannoy, McIntosh, Marantz, Erpi, Jensen, Langevin, also want earliest computers, large vinyl record collections, pro musical instruments, scientific curiosities, etc. V. Vogt, 2311 Pimmit Dr. #114, Falls Church, VA 22043. (206) 898-0880. E-mail: archaicaudio@gmail.com

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1941 models 41-250, 255, 256, 280, 285, 287, 290, 296, 610
1942 models 42-355, 42-355T, 42-380, 42-380X, 42-390, 42-390X

WANTED: GE J-100 chassis, Peerless fan badge, Pilot cathedral dial bezel, Zenith 5R216 feet or cabinet, RCA R-7 dial bezel, RCA 121 cabinet or parts radio, H.H. Scott 99-D knobs, Crosley 170 top tube shield, Lang tombstone chassis, old fans. I have many radios and parts sets here. Send me all updated want lists. Wilbur Gilroy, PO Box 459, Lake Winola, PA 18625. (570) 378-2508. E-mail: radiowilbur@frontiernet.net

WANTED: Sony transistor radios. Models TR1000 & TR911. Shirt and coat pocket size miniature tube portable radios made in U.S.A. and Japan. These radios used an A battery of 1 1/2 volts and B battery of 67 1/2 volts. Also 45 and 30 volts. John Hoffnagle, 10 Sunset Ave., New Oxford, PA 17350. (717) 624-8894

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WANTED: (2) 4-1000A AM transmitter tubes. Ken Maguda, WKMC, 2513 Sixth Ave., Altoona, PA 16602. (814) 943-6112. E-mail: ken@theradiocampus.com

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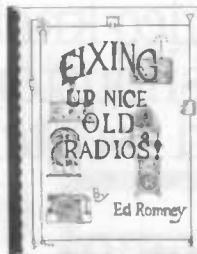
Classic Cones, Chidester. Pictorial reference & value guide for 1920s radio cone speakers. 100s of color photos. 2001. 122 pgs. \$25.95



A. Atwater Kent, The Man, the Manufacturer and His Radios by Ralph Williams and John P. Wolkonowicz. A compilation of the articles on Atwater Kent which were published in *Radio Age* by Ralph Williams in the 1970s. Covers 1920s Atwater Kent sets. Also included is John P. Wolkonowicz's 1976 article *WPI's Forgotten Millionaire*. This is a "must have" book for any Atwater Kent enthusiast. Donald O. Patterson, Editor. 108 pages. — \$25.95



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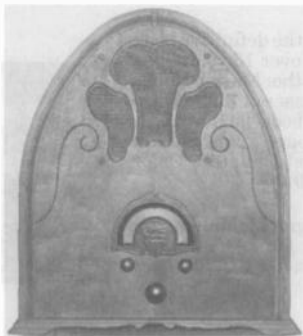


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FOR SALE: A building full of electronic collectibles, you name it. I probably have it. Come and take a look, make an offer for all, or single items. John Enigl, Sr., 5425 Tart Cherry Ln., Egg Harbor, WI 54209. (920) 743-3672, call after 2 pm Central time



FOR SALE: 1931 Gloritone Model 99 cathedral, all original, recapped and plays. The cabinet is in excellent condition, no apparent veneer problems – \$270 plus shipping. Allen Cloyd, 3741 Canter Dr., Trinity, NC 27370. (336) 475-1102

FOR SALE: Huge overstock of tubes, needles, parts, data, radios, phonographs, televisions, equipment. Sales support our self-funded museum featuring guided historical tours. Sunshine Radio, core division of the family owned SunRad Alliance, was founded by Ron Seppeler in Toledo, Ohio during 1926. Ray Seppeler, Sunshine Radio Museum, 8 East Main St., Sodus, NY 14551. (315) 483-8451. Web: www.SunshineRadioMuseum.org/collector

FOR SALE: Record player RCA 45 rpm brown alligator case 13 x 9 1/2 x 8 in. hi case tight – \$55. Mic Turner #2SSB, (2) green/chrome w/cord & plug – \$55. Tube tester GEM-YTW-1 roll chart, clean – \$40. Test cord for early radios (2) ends, 4-prong (01-As) other end 5-prong (27/s) vintage cord brown – \$15. Pamphlets F-M multiplex for stereo (Sam's) 1966 – \$5. CB test equipment & measurements, 1977 – \$5, both for \$7. RCA Receiving Tube Manual RC-17, clean 1954 – \$10. Transistor Old Parr Scotch Whiskey knobs on top – \$45. Bernie Samek, 113 Old Palmer Rd., Brimfield, MA 01010. (413) 245-7174. E-mail: bernies@samnet.net

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FOR SALE: Two chairside radio/rec pl Magnavox and Farnsworth, AK table radio, two KLH rcvrs, lots of WWII military radios, etc. Contact: Howard Felder, 7517 Granada Dr., Bethesda, MD 20817. (301) 320-3028



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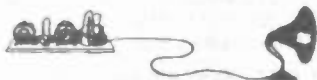


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This auction is for the late Sherwin Raymond Kushnir (Radio Ray) estate. Radio Ray had his shop in the historic district of Pueblo, Colorado and was well known in the radio collecting community. Ray loved all the many types of radios, consoles, table radios, amateur radio, tubes, test equipment, early speakers, even newer stereo equipment and novelty radios. We will offer many of these items in this sale. We still have another trip planned for picking up more of his estate. We will be doing this in early December. Highlights of the December auction are a beautiful E.H. Scott 30-tube Philharmonic in a Warrington cabinet, a superb E.H. Scott Allwave Model 23, Zenith console 11-tube shutter dial, other Zenith consoles, many circa 1920s battery sets, horn speakers, cone speakers, a very clean Atwater Kent Model 10 breadboard. Several hundred table radio Models from Admiral to Zenith, amateur radio receivers by Hammarlund, Hallicrafters, National, military type radios, lots of test equipment. All of Mr. Kushnir's test equipment was clean and had been used until his untimely passing. There were several thousand tubes in his shop, and many will be sold in bulk lots. There are lots of books and magazines, all in all a very well rounded auction. We will also be adding items from the Pompea estate from Colorado Springs. This collection offers many N.O.S. type UV-200, Type 27, Type 30, Type 26 and other tubes. So make your plans to do your radio Christmas shopping at this auction. It is the first of several we will be doing from the Kushnir estate. We have been commissioned to sell the Kaczmer Crosley Radio Collection from Michigan. This will be in February of 2010. Watch for our ad in A.R.C. Terms: Cash, check, Visa, M/C. Disc. 5% gallery fee. Early sell from 8:30 AM - 10 AM.

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FOR SALE: 1933 U.S. Radio Model 3072 cathedral. All original, all tubes checked, and has been recapped, however I have not turned it on. The cabinet is in excellent shape. Also, the original installation and operation booklet goes with it, all for - \$150 plus shipping. Allen Cloyd, 3741 Canter Dr., Trinity, NC 27370. (336) 475-1102

FOR SALE: Zenith transistor Trans-Oceanic Model 1000-1. Excellent reception on all 8 bands. The antenna, controls and dial lights work well. 115/12 volts power supply, battery box, pull out chart and operating guide included - \$95 plus shipping. Frank Martinho, 3511 Rowley Dr., San Jose, CA 95132. (408) 946-2041. E-mail: martinho67@earthlink.net

FOR SALE: GE H87 parts. Having finished a restoration project, I have leftover for sale some knobs, buttons, speaker, beamscope and more. Please call or e-mail. Paul R. Moens, 6792 Miller Rd., Newark, NY 14513. (315) 331-6740, after 4 pm. E-mail: PRMoens@aol.com

FOR SALE: Radiola III with no chips or cracks in Bakelite. Full manufacturing decal and original battery harness in excellent condition - \$125 + shipping. Martin Gottstine, 3882 N. Boston Rd., Eden, NY 14057. (716) 202-4575. E-mail: m.l.gottstine@roadrunner.com

FOR SALE: Music Master 60, Philco 81 Jr., Sterling Model B pwr supply R99, tube and transistor radios, parts, books, tubes, semiconductors and more. 23 pp. 14 lists, send 2-stamp LSASE, or lists via e-mail: wehcoll@earthlink. Bill Horn, 13110 Marsh Rd., Bealeton, VA 22712



FOR SALE: 1935 Hallicrafters Model S-6, first of the many Super SkyRider Series. Has eleven tubes, all gone through, complete and in excellent condition. This one's a beauty! - \$485. Dave Crocker, 35 Santuit Pond Rd., #4B, Mashpee, Cape Cod, MA 02649. (508) 477-1578, before 9 pm EST, please

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WANTED: Always I collect old, old foreign (and German) radios, not with push button but with rotary band switch, also volume controls, IF transformers and AC switches US 26, and US 27. Tom Hasija, 7167 North Park Ext., Cortland, OH 44410. (330) 637-2803

WANTED: Boonton (Measurements) Model 91LF head and coils or complete unit. Also RAX LF receiver. R. J. Ellis, 7607 Ensley Dr., Huntsville, AL 35802. (256) 881-6646. E-mail: rje@comcast.net

WANTED: Radio/electronic kits for children from 40s, 50s, 60s assembled or unassembled, tube or transistor. Larry Daniel, 3112 Seton Hill Dr., Bellbrook, OH 45305. (937) 848-8892

WANTED: Console cabinet only for Zenith Model 12S568 or 12S569. Any condition will do. D.W. Donaghu, 1033 Sheriffs Posse Trl., Prescott, AZ 86303. (928) 717-4973

WANTED: Broadcast microphones. Early carbon, condenser, ribbons, etc. James Steele, PO Box 610, Kingsland, GA 31548-0620. (912) 729-2242. E-mail: JSteele@k-bay106.com. Microphone collectors website: <http://www.k-bay106.com/mics.htm>

WANTED: Hickok tube testers, any Series 600; 800; 8000, working or not. John Snow, 1910 Remington Ct., Andover, KS 67002. (316) 733-1856

WANTED: Manual w/schematic for Simpson Model 269 VOM, working Hallcrafters HA-19 crystal calibrator, working E.F. Johnson telegraph practice set for Learners, #114-110, B&W baby inductor coils, specifically 40 MCL and 20 MCL in good condition, N.O.S. natural aluminum finish chassis, 7" x 7" x 2" and matching bottom plate. Louis L. D'Antuono, WA2CBZ, 8802 Ridge Blvd., Apt. C-2, Brooklyn, NY 11209. (718) 748-9612 after 6 pm

WANTED: Air King chrome face ca 1934 and Model 120 black crystalline skyscraper radios. Joseph DiCaro, 4155 Lastrada Hts., Mississauga, Ontario, Canada L5C 3V1. (905) 848-7759. E-mail: decoradio@primus.ca

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WANTED: Tube hi-fi/commercial sound equipment tubes: Altec, Fisher, Scott, Pilot, Eico, Marantz, Dynaco, Leak, Quad, Tannoy, Western Electric, etc. Sonny Goldson, 520 Pochantons Dr., Ft. Walton Beach, FL 32547. (850) 314-0321. Fax: 0824. E-mail: SonnySound@aol.com

WANTED: Dial glass for a Grundig Model 1088USA. Will buy parts set if necessary. Larry Anderson, 3453 Balsam Ave. NE, Grand Rapids, MI 49525. (616) 363-7889. E-mail: hifilar@iserv.net

WANTED: Output transformer that is used in the Bogen DB110 audio ampl. transformer #T2106-1. Thomas Rocheleau, PO Box 132, Franklin, MA 02038. (508) 528-3061, between 6-10 pm

WANTED: Cabinet and knobs for an AK Model 206. Also chassis for RCA R28 P. Doug Wright, 625 Rolling Hills Dr., Canyon Lake, TX 78133. (830) 905-3050. E-mail: dwjw@gvtc.com

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FOR SALE: Hickok Model 121 Cardmatic tube tester, requires minor repair. Best news, has all required test cards, very good red case - \$75 or Best Offer. David Boyle, 1058 Colt Cir., Castle Rock, CO 80109. (303) 681-3258

FOR SALE: Atwater Kent radio Model 55C in a 1929 Pooley cabinet, no reasonable offer refused. Pictures available upon request. Michael Seidman, 4 South Iroquois Ave., Margate City, NJ 08402. E-mail: mrhaj@verizon.net

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WANTED: Before you trash those old tubes, call me and I'll find them a home. Jeff Arndt, 4021 South Parker Way, DePere, WI 54115. (920) 323-6789

WANTED: Restored electrically and cosmetically Hallicrafters SX-28 or SX-28A. Contact: Art Cobb, 996 Lone Pine Dr., Forestport, NY 13338. (315) 725-7863. E-mail: artcobb@hotmail.com

WANTED: Operating Instructions for a Signal Corps tube tester I-177B & test data cards covering early tubes such as 01-A & 199s. Unit was made by Supreme Inc. I can use any & all info on it. Thanks. Darrell Combs, 6587 Pacheco Way, Citrus Heights, CA 95610. (916) 969-0635

WANTED: Rider's Vols. 1; Vol. 10; Vol. 22; Vols. 23. John Snow, 1910 Remington Ct., Andover, KS 67002. (316) 733-1856

WANTED: AK 447 tombstone cabinet or complete set in any condition for cabinet parts. Joe Milano, 57 Hillcrest Dr., Wayne, NJ 07470. (973) 694-3721

WANTED: A channel number ring for an RCA 8TS-30 or 630TS with numbers one through thirteen. Edward Hill, 224 Keepa Way, Advance, NC 27006. (336) 998-8874. E-mail: eohyhj@hotmail.com

WANTED: Farnsworth BC 105 in good condition. Harry Kazarian, Villa Del Rio, 309 Greenwich Ave. Apt. C-220, Warwick, RI 02886. (401) 732-5482

WANTED: Commercial coil winder, wire, old radios and parts, record changers and phono parts. Zenith and Philco consoles. E-mail photos and information. West-Tech, 615 Fairground St., Caldwell, OH 43724. (740) 732-6056. E-mail: westtechservices@yahoo.com. Web: www.west-techservices.com



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FOR SALE: Zenith Universal Radio Model 6B03, 25 watts, No. T528486, has wavemagnet, works - \$95. QST magazines, 1931 thru 1941, missing 4 magazines - \$200 plus shipping. 1929 Knights Radio Catalog - \$25. 1922 Victor Records Catalogue, at least 400 pages - \$30. \$4 postage each. Norman Wenneker, 421 East Ross St., Palmyra, MO 63461-1736. (573) 769-2449

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FOR SALE: Selling new TV parts, TV tubes for older TVs. And some new radio tubes. Also used Sams schematics. For lists please send a LSASE to John Logan, 10435 Reutzler, Boise, ID 83709-4657. (208) 362-5156. Fax: (208) 362-1301. E-mail: jlogan@interplususa.net

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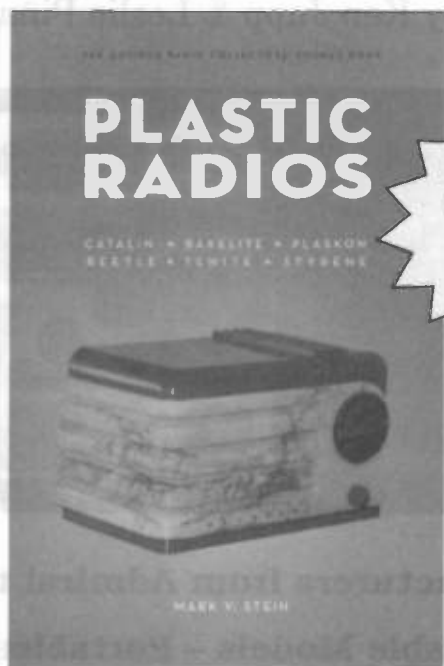
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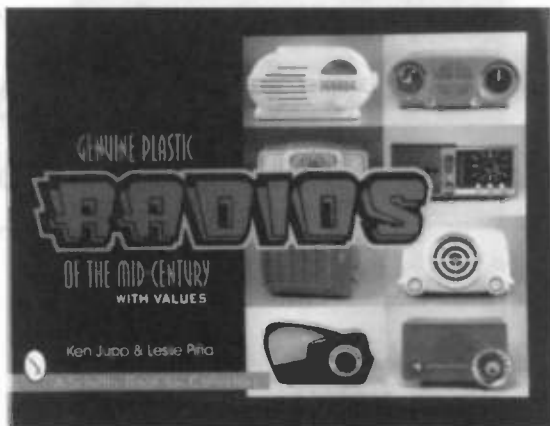
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FOR SALE: Go to our newly updated website at gn4radios for an extensive listing of items for sale. For an up-to-the-minute update, call (612) 727-2489 during business hours. We offer the highest quality electrical restoration for Zenith Trans-Oceanics and all other vintage radios, including the solid-state TOs. Also AC line cords for the xstr TOs. We have in stock over 100 different Zenith repro knobs and cosmetic parts. Call with your needs. Excellent repro Scott knobs. We are the largest retailer of E.H. Scott radios with 7 excellent examples on our showroom floor at this time. Call for details. Philco 16B peaked tombstone; Zenith 288 with RF gain and antenna trimmer; Zeniths: 8S147A zephyr tombstone; 9S30; 1938 Child's console 5R226; 4R; Super VIII; Super rare 15U246 McDonald chairside; excellent original 12S245 McDonald chairside; Zenith 15U271; 12U159 and many others. Trans-Oceanics: 7G605; R7000 and all of the others. Also many other fine brands for sale. Restoration supplies. Request our free catalog of parts and supplies. Visiting Minneapolis? We have the finest vintage radio showroom in the country with over 50 exceptional consoles on the floor, and shelves and shelves of table models. Experience our store, Great Northern Vintage Radios, just 5 minutes from the airport. We ship consoles and we do it right. We accept cash, check, money orders, plastic and Paypal. Alan Jesperson, PO Box 17338, Minneapolis, MN 55417. (612) 727-2489. 11 am - 4:30 pm, Tuesday-Friday, Saturday 10-3. Fax during business hours (612) 821-4820. E-mail: alan@alanjespersen.com and mte612@aol.com

FOR SALE/TRADE: Many interesting & rare radios and vintage televisions can be viewed at our website. Also lots of other vintage Americana. Updated monthly. John Steinhauser, 190 E. Loines Ave., Merrick, NY 11566. (516) 582-1373. Web: www.jcsantiques.com

FOR SALE: Tandberg Huldra 7, top of the line from Norway. Last all tube with EL84s, very good cond. - \$275. Ed Kalpa, 4622 Melbourne Ave., Los Angeles, CA 90027. (310) 795-7925

FOR SALE: Yaesu FRG-8800 shortwave radio, mint condition, non-smoker owned. I bought it from the original owner, who was also a non-smoker - \$375. I will trade it for an old Dodge Power Wagon truck. Dennis Yankey, 7015 West 700 South, North Judson, IN 46366. (574) 896-3061

FOR SALE: Antique radio schematics - \$4, TV - \$5 ppd. Joseph R. Forth, 119 Long Vue Acres Rd., Wheeling, WV 26003. (304) 277-3154. E-mail: wa2trt@1st.net

FOR SALE: 1934 Crosley lowboy 72 AF, 7H3 complete, very good cabinet, cool high speed fishing rod tuner, needs transformer and speaker repair. Will ship according to your specifications. Check out www.crosleyradios.com/7H2_7H3_deco_tombstone.html. Dave Turner, 1703 Roxbury Dr., Wilson, NC 27893. E-mail: dtuner@myglnc.com for pictures

FOR SALE: New capacitors, no minimum order. You'll receive a free bonus of capacitors with any order. Everett Hoard, Frontier Capacitor, PO Box 218, Lehr, ND 58460. (701) 378-2341

FOR SALE: Traveller 5008 - \$25. Grommes receiver 512 - \$50. Grommes receiver 510 - \$120. Grundig 2220U - \$140. Silvertone 6017 - \$25. Emerson 541 - \$25. Bendix 626A - \$40. Grundig 80U - \$50. Freshman Equaphase G-1 - \$40. (2) Motorola 56X1 and 56X2 - \$40 ea. Philco 40-120 - \$40. Grundig 87 - \$30. Silvertone 6044 - \$20. Paul Lisowski, 5603 E. 100 N, Knox, IN 46534. (574) 772-2021

FOR SALE: 1947 Pilot radio TV with magnifier - \$400. Cecelia Doherty, PO Box 168, Rocky Point, NY 11778. (631) 744-2788

FOR SALE: Silvertone Model 1600 four tube shortwave converter, as new, (1) 280; (1) 227; (2) 235s with original instruction sheet and schematic - \$65 plus \$20 shipping. John Snow, 1910 Remington Ct., Andover, KS 67002. (316) 733-1856

FOR SALE: 1941 & 1942 Philco escutcheons, knobs and pushbuttons reproductions now available. Other various knobs and pushbuttons also available. Contact us for specific model numbers on escutcheons. Old Time Replications, 5744 Tobias Ave., Van Nuys, CA 91411. (818) 786-2500. E-mail: oldtimerep@aol.com. Web: <http://www.antiqueradioknobs.com>

FOR SALE: 1936 Radiobar, rare Philco console with 11-tube 116b chassis. All correct glassware, lights, hums, 100% untouched original estate find. Call or e-mail for info and pictures. Also mint red Plaskon Emerson 724 and sweet Silvertone (Detrola) 6166 midget in black Plaskon. Joetta Maddox, PO Box 603, New Kingstown, PA 17072. (717) 608-1092. E-mail: pewabic@comcast.net

FOR SALE: QST magazines 1931 thru 1941 - \$200 plus shipping. 1929 Knights Radio Catalog - \$25. Norman Wenneker, 421 East Ross, Palmyra, MO 63461. (573) 769-2449

FOR SALE: Antique polyphase slide rule, nine scales, bought new March 1943, in original case and box with 81-page instruction manual, like new - \$50 plus shipping. Austin Kennedy, HC61, Box 17, Paynesville, WV 24873. (304) 967-7563

FOR SALE: N.O.S. used tubes, other N.O.S., used electronic parts. Alan Batson, 32117 S. Autumn Ct., Laurel, DE 19956. (302) 280-6563. E-mail: roal311@comcast.net

FOR SALE: See items in old ads and new at radioexchange.net sold by richsequip, most listed under test exchange with photos & detailed descriptions. Many seldom offered for sale & going back as far as 1936. Richard Flaws, 212 Mondovi Dr., Oswego, IL 60543. (630) 554-9207, before 9 pm CT

FOR SALE: Visit RadioWorld-OnLine.com you will find new items and information every month! Carl Blomstran, PO Box 890473, Houston, TX 77289

FOR SALE: New old stock Hopalong Cassidy Arvin Model 441T embossed and painted paper backed foil fronts. Either rearing or standing Topper styles - \$125 ea. Jack Gray, 1162 Broadmoor Dr., Napa, CA 94558. E-mail: trustmej@aol.com

FOR SALE: B&W miniductors many sizes and shapes, all new in original boxes, LSASE for list. John Snow, 1910 Remington Ct., Andover, KS 67002. (316) 733-1856

FOR SALE: Crystal Radio Kits. Kit No. 1 comes complete with face panel and base board, two, 365 variable capacitors, a preound coil and many other parts for old style crystal radio - \$25. Kit No. 2 is the same as no 1 but with only one capacitor - \$22. Remit to: Carl D. Beier, 1080 Josephine St., Lincoln Park, MI 48146

FOR SALE: Hundreds of tubes, N.O.S. and used. Some rare tubes and old books. Howard McAuliffe, 20 Thayer Rd., Higganum, CT 06441. (860) 345-0943. E-mail: m_howard@att.net

FOR SALE: Large collection antique radios & TVs, battery sets, tombstones, cathedrals, plastics, consoles, predictors and more. No breadboards. Manuals, literature, horns, speakers, parts, tubes, test equipment. Prefer offer on entire collection, but will sell TVs separate. Inventory must be viewed in person. M. Harold Ezzone, 4901 Park Dr., West Des Moines, IA 50265. (515) 221-9447. E-mail: mh_ez@msn.com

FOR SALE: Telefunken Gravotte 5353, circa 1954. Great condition, although volume knob is tight - Best Offer. Michael Baseman, 12425 105th Pl. NE, Kirkland, WA 98034. (425) 242-1530. E-mail: mbaseman@japanevents.com

A.R.C. BACK ISSUES

**April '87 to current issue: Originals available
32 to 100 pages each.**

**Oct. '86 to Mar. '87: Reprints available
Reprinted from original artwork; 28 to 32 pgs. ea.
Quality & appearance same as an original copy.**

**June '84 to Sept. '86: Photocopies available
Not original quality, useful for info.; 16 to 28 pages each.**

Publication of *Antique Radio Classified* began in 1984 which had only five issues: June, Sept., Oct., Nov. & Dec. 1984. 1985 through current year have had 12 issues each.

**\$5.00 each - Postpaid to
U.S., Canada and Mexico.**

Orders of 6 issues or more may take a 10% discount. Orders for a full calendar year may take a 60% discount (\$2.00/each). Foreign orders other than Canada and Mexico: \$8.00 each by air.

A.R.C. UNCUT, UNFOLDED COVERS

June '91 to present - 9 1/2" x 12 1/2" - \$9.95 each
Postpaid to U.S., Canada, & Mexico

**A.R.C., P.O. Box 2, Carlisle MA 01741
E-mail: ARC@antiqueradio.com
Or Call Toll Free (866) 371-0512**

*Visa, Mastercard, American Express, Discover
Mass. residents, please add sales tax.*

HELP: Looking for Atwater Kent speakers for Models 447, 356, and 82. These are black and gold in color and approx. 8". Field coils are 1000 to 1100 ohms. Any help would be greatly appreciated. Contact: Charles Poplin, 3518 Courtland Dr., Durham, NC 27707. (919) 493-2002. E-mail: Popawapado1@yahoo.com

SERVICES: Tubes, parts, supplies and literature. Your source for all your radio needs! Antique Electronic Supply, 6221 S. Maple Ave., Tempe, AZ 85283. (480) 820-5411. Web: www.tubesandmore.com

SERVICES: West-Tech now offers antique radio repair from Admiral to Zenith. With the same reliable service we provide our phonograph repair personnel. Free reasonable estimates. West-Tech, 615 Fairground St., Caldwell, OH 43724. (740) 732-6056, M-F, 10-5 ET. E-mail: westtechservices@yahoo.com. Web: www.west-techservices.com

SERVICES: Loudspeaker reconing and refoaming. Reconded field coil loudspeakers and do-it-yourself refoam kits also available. "Giving your speaker a second chance since 1987" Rich Stamer, Sound Remedy Loudspeaker Repair Service, 331 Virginia Ave., Collingswood, NJ 08108. (856) 869-0238. E-mail: soundremedy@aol.com

SERVICES: Clear plastic repro dial covers - \$18 ppd. U.S.A. Mark Palmquist, 5033 Arbor Ln., Lilburn, GA 30047. (770) 923-8929. E-mail: jmpalm@mindspring.com. Web: <http://jmpalm.home.mindspring.com>

SERVICES: Professional restoration of antique radios and vintage hi-fi. Repairs, upgrades & detailing. Mike Urban, 58 Naugatuck Ave., Milford, CT 06460. (800) 594-4359. Web: www.urban-antiqueradio.com

SERVICES: Antique Radio of Iowa, experienced collector, will repair your home tube radios and auto, 30s thru 60s (no foreign), speaker service, cabinet restorations and more! PayPal welcome. Communicate first. Don Nordboe, 3131 Avenue A, Council Bluffs, IA 51501-1948. (712) 322-2255, CDT. E-mail: dnordboe@aol.com. Web: www.antiqueradioofiowa.com

SERVICES: Glayzit Bakelite restorer. Will bring back the shine on almost any condition Bakelite radio case - \$10.99 per can + \$4 ship. Go to Radiotiques.com or send \$14.99 to: Jeff Goldstein, 4 Curry Ct., Wilmington, DE 19810

SERVICES: Will repair, refinish or restore your vintage tube type radios and audio equipment to their former state of soundness! Radio Revival, 181 Stony Ridge Ln., Bonnots Mill, MO 65016. (573) 897-4121. Web: www.radio-revival.com

SERVICES: All American Five-Tube, table radio restoration specials - \$49.99. 6-Tube - \$59.99. Other flat rate restorations for larger radios, car radios & TVs. Call for details. Dave's Antique Radio and TV Restorations, PO Box 285, Liverpool, NY 13088-0285. (315) 457-5099. E-mail: dave2@dreamscape.com or dave2@tubesandtransistorsandmore.com. Web: www.dreamscape.com/dave2/daves.htm or tubesandtransistorsandmore.com or www.davesantiqueradio.com

SERVICES: Repairs to vintage tube equipment including home receivers, phonographs and auto radios. South Bay Radio, 7187 Lakeshore Rd., Cicero, NY 13039. (315) 699-7341



OHIO - Nov. 28

**ESTES AUCTIONS
RADIO AUCTION**
Burbank, OH - Expo Auction Center
8157 Garmon Rd., Exit 204 off I-71
10 am
Info: (888) 769-4992 - Fax: (330) 769-4116
www.estesauctions.com

FLORIDA - Dec. 5

**SARASOTA ANTIQUE RADIO CLUB
WINTER SWAP MEET**
Sarasota, FL - Knights of Columbus
4880 Fruitville Rd. • 8 am - 11 am
Info: Jack Warren - (941) 349-4875
Dave Hurt: manager@findsales.com

OHIO - Dec. 1

**ANTIQUÉ RADIO COLLECTORS OF OHIO
MEETING**
Dayton, OH - 2929 Hazelwood Ave.
7 pm
Info: Karl Koogle - (937) 294-8960
karkrad@siscom.net

TEXAS - Dec. 5

**HOUSTON VINTAGE RADIO ASSOC.
CHRISTMAS PARTY**
TBD
Info: Bill Werzner - (713) 721-2242
mingqi53@sbcglobal.net
www.hvra.org

ARKANSAS - Dec. 3

**ANTIQUÉ RADIO COLLECTORS CLUB OF
FORTH SMITH
MEETING**
Fort Smith, AR - First Baptist Church
1400 Grand Ave. • 7:30 pm
Info: Paul Tucker - (479) 782-8178

WASHINGTON - Dec. 5

**RADIO ENTHUSIASTS OF PUGET SOUND
MEETING**
Seattle, WA - Queen Ann Library
400 W. Garfield
2 pm
Info: REPS - (206) 488-9518 or
www.repsonline.org

CALIFORNIA - Dec. 5

**CALIFORNIA HISTORICAL RADIO SOC.
SWAP MEET**
Berkeley, CA - KRE Building
601 Ashby Ave. - 9 am
Info: CHRS Hotline - (415) 821-9800
www.californiahistoricalradio.com

FLORIDA - Dec. 6

**JACKSONVILLE ANTIQUE RADIO SOC.
4TH ANNUAL SHOW & SALE**
Jacksonville, FL - Avonlea Antique Mall
8101 Phillips Hwy.
1-5 pm
Info: Sean Olin - (904) 386-8332
www.jarsradioclub.com

CONNECTICUT - Dec. 5

**VINTAGE RADIO & COMM. MUSEUM OF CT
INDOOR SWAP MEET**
Windsor, CT - 115 Plerson Ln. • 8 am
Info: John Ellsworth - (860) 673-0518
radioclctr@aol.com

NEW YORK - Dec. 6

**GREATER NEW YORK VINTAGE WIRELESS
ASSOCIATION
SWAP MEET & MEETING**
Locations: TBA 8 am - 1 pm
Info: Jim Koehler - (516) 623-0035
Rich Lee - (914) 589-3751

SUBMISSION DEADLINE: 5TH OF MONTH

WEST VIRGINIA - Dec. 6

MUSEUM OF RADIO & TECHNOLOGY ANNUAL HOLIDAY BANQUET

Huntington, WV - 1640 Florence Ave.

1:30 pm

Info: (304) 525-8890

E-mail: Lmcin79627@aol.com

ARKANSAS - Dec. 10

ARKANSAS ANTIQUE RADIO CLUB MEETING

Call for location and directions

7 pm

Info: Tom Burgess - (501) 455-0773

NORTH CAROLINA - Dec. 8

EAST CAROLINA ANTIQUE RADIO CLUB MEETING

Greenville, NC - Sheppard Memorial Library

Meeting Room A, 530 Evans St. • 7 pm

Info: Herman Schnur - (252) 752-2264

NEW JERSEY - Dec. 11

NEW JERSEY ANTIQUE RADIO CLUB MEETING

Princeton, NJ - Bowen Hall

70 Prospect Ave.

7:30 pm

Info: Marv Beeferman - (609) 693-9430

Richard Lee - (914) 589-3751

E-mail: radlorich@prodigy.net

Join us on our live webcast: www.njarc.org

OHIO - Dec. 8

SOCIETY FOR THE PRESERVATION OF ANTIQUERADIO KNOWLEDGE (SPARK) MEETING

Kettering, OH - Parkview Comm. Center

4100 Glenheath • 7:30 pm

Info: Jeff Bothwell - (937) 854-7106

jbothwell@butlertownship.com

OREGON - Dec. 12

NORTHWEST VINTAGE RADIO SOCIETY MEETING & TAILGATE SWAP

Oregon City, OR - Abernethy Grange Hall

15745 S. Harley Ave.

Tailgate: 8:30 am - Meeting: 10 am

Info: www.nwvrs.org

PENNSYLVANIA - Dec. 8

DELAWARE VALLEY HIST. RADIO CLUB MEETING - SWAP - AUCTION

Telford, PA - Telford Community Building

Hamilton & Hamlin • 7:30 pm

Info: Delaware Valley Historic Radio Club

PO Box 5053, New Britain, PA 18901

www.dvhrc.info

ILLINOIS - Dec. 13

ANTIQUERADIO CLUB OF ILLINOIS INDOOR SWAP MEET

Carol Stream, IL - American Legion Hall

7 am - 11 am

Info: www.antique-radios.org

clubinfo@antique-radios.org

MISSOURI - Dec. 8

ANTIQUERADIO COLL. & HIST. OF GREATER ST. LOUIS MEETING

Kirkwood, MO - Kirkwood Comm. Ctr

111 S. Geyer Rd., Room 201-A

7:30 pm Meeting, Show & Tell, Swap Table

Info: Joe Tauser - (314) 616-0745

joe@jtauser.com

NEW MEXICO - Dec. 13

NEW MEXICO RADIO COLLECTORS CLUB MEET

Albuquerque, NM - Kaseman Presbyterian
Hospital

8300 Constitution Ave. (W. of Wyoming)

1:30 pm: Tailgate Swap Meet

2 pm: Program, Show & Tell and Auction

Info: Chuck Burch - (505) 286-9674

chuckBurch@aol.com

<http://members.aol.com>

ONTARIO - Dec. 9

OTTAWA VINTAGE RADIO CLUB MEETING

Ottawa, Ont. - The Ottawa Citizen
Conference Room, 1101 Baxter Rd.

7 pm

Info: OVRC - (613) 832-3097

www.ovrc.org

**DOES YOUR CLUB HAVE A WEB SITE?
SEND IT TO: ARC@ANTIQUERADIO.COM**

MARK YOUR CALENDAR

Nov. 28 - OH, Burbank - Estes Auction
Dec. 1 - OH, Dayton - ARCO Meeting
Dec. 3 - AR, Fort Smith - ARCC Meeting
Dec. 5 - CA, Berkeley - CHRS Meet
Dec. 5 - CT, Windsor - VRCM of CT
Dec. 5 - FL, Sarasota - SARC Meet
Dec. 5 - TX, Houston - HVRA Christmas Party
Dec. 5 - WA, Seattle - REPS Meeting
Dec. 6 - FL, Jacksonville - JARS Show & Sale
Dec. 6 - NY, Call - GNYVWA Meeting
Dec. 6 - WV, Huntington - MRT Holiday Banq.
Dec. 8 - MO, Kirkwood - ARCH Meeting
Dec. 8 - NC, Greenville - ECARC Meeting
Dec. 8 - OH, Kettering - SPARK Meeting
Dec. 8 - PA, Telford - DVHRC Meeting
Dec. 9 - Ont., Ottawa - OVRC Meeting
Dec. 10 - AR, Call - AARC Meeting
Dec. 11 - NJ, Princeton - NJARC Meeting
Dec. 12 - OR, Oregon City - NWVRS Meeting
Dec. 13 - IL, Carol Stream - ARCI Meet
Dec. 13 - NM, Albuquerque - NMRCC Meet
Dec. 13 - WA, Seattle - PSARA Meeting
Dec. 14 - GA, Norcross - SARA Meeting
Dec. 15 - CA, Shingle Springs - CHRS-Sac. Mtg
Dec. 16 - OH, Columbus - COARA Meeting
Dec. 16 - OH, Cincinnati - CARS Meeting
Dec. 18 - NY, Suffern - HARPS Meeting
Dec. 19 - OH, Burbank - Estes Auction
Dec. 20 - VA, Centerville - MAARC Meeting
Dec. 27 - NY, Schenectady - SARC Meeting
2010
Jan. 2 - WA, Seattle - REPS Meeting
Jan. 3 - NY, Call - GNYVWA Meeting
Jan. 5 - OH, Dayton - ARCO Meeting
Jan. 6 - Ont., Ottawa - OVRC Meeting
Jan. 7 - AR, Fort Smith - ARCC Meeting
Jan. 8 - NJ, Princeton - NJARC Meeting
Jan. 9 - OR, Oregon City - NWVRS Meeting
Jan. 9 - OK, Oklahoma City - OVRC Meeting
Jan. 10 - CO, Call - CRC Meeting
Jan. 10 - NM, Albuquerque - NMRCC Meet
Jan. 11 - GA, Norcross - SARA Meeting
Jan. 12 - MO, Kirkwood - ARCH Meeting
Jan. 12 - NC, Greenville - ECARC Meeting
Jan. 12 - OH, Kettering - SPARK Meeting
Jan. 12 - PA, Telford - DVHRC Meeting
Jan. 14 - AR, Call - AARC Meeting
Jan. 16 - OH, Burbank - Estes Auction
Jan. 16 - TX, Irving - VRPS Meeting
Jan. 16 - TX, Kyle - TARC Meeting
Jan. 17 - MD, Davidsonville - MAARC Meeting
Jan. 17 - TN, Memphis - MARC Meeting
Jan. 17 - WA, Seattle - PSARA Meeting
Jan. 17 - FL, Jacksonville - JARS Meeting
Jan. 21 - OK, Catoosa - HLARA Meeting
Jan. 23 - OH, Columbus - COARA Meet
Jan. 24 - WI, Milwaukee - WARC Meet
Jan. 25 - AL, Birmingham - AHRM Meeting
Jan. 30 - MI, Farmington Hills - MARC Meet
Feb. 5 & 6 - TX, Houston - HVRA Convention
Feb. 14 - MA, Westford - GBARC Radio XLI

MENTION A.R.C. WHEN CONTACTING CLUBS!

WASHINGTON - Dec. 13

PUGET SOUND ANTIQUE RADIO ASSN. MEETING

Seattle, WA - Shoreline Museum
749 N. 175th & Linden Ave.

10 am - 12 Noon: Tailgate Swap
12 Noon: Meeting, Program, Show & Tell
Info: Pete Peterson - (425) 747-1323
<http://www.eskimo.com>

GEORGIA - Dec. 14

SOUTHEASTERN ANTIQUE RADIO SOC. MEETING WITH SHOW & TELL

Norcross, GA - Fire Mountain Rest.
Jimmy Carter Blvd. • 6:30 pm
Info: Rich Rodgers - (678) 591-3619
www.sarsradio.com

CALIFORNIA - Dec. 15

CALIFORNIA HISTORICAL RADIO SOC. SACRAMENTO CHAPTER - MEETING

Shingle Springs, CA - 3755 Durock Rd. • 7 pm
Info: Bob Moore - remoore@directcon.net
www.californiahistoricalradio.com

OHIO - Dec. 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
<http://members.tripod.com>

OHIO - Dec. 16

CINCINNATI ANTIQUE RADIO SOCIETY MEETING

Westchester, OH - National Voice of
America Museum of Broadcasting
8070 Tylersville Road • 7 pm
Info: Bob White - (513) 385-8291

NEW YORK - Dec. 18

HUDSON VALLEY ANTIQUE RADIO AND PHONO SOCIETY MEETING

Suffern, NY - Episcopal Church of Suffern
65 Washington Ave. • 7-9 pm
Rev. Dale Cranston - (845) 357-1615

OHIO - Dec. 19

ESTES AUCTIONS RADIO AUCTION

Burbank, OH - Expo Auction Center
8157 Garmon Rd., Exit 204 off I-71
10 am

Info: (888) 769-4992 - Fax: (330) 769-4116
www.estesauctions.com

ONTARIO - Jan. 6

OTTAWA VINTAGE RADIO CLUB MEETING

Ottawa, Ont. - The Ottawa Citizen
Conference Room, 1101 Baxter Rd.
7 pm

Info: OVRC - (613) 832-3097
www.ovrc.org

VIRGINIA - Dec. 20

MID-ATLANTIC ANTIQUE RADIO CLUB MEETING

Centerville, VA - Sully Station Comm. Ctr.
Tailgate: 11:30 - Meeting: 1:30

Info: Geoff Shearer - (703) 818-2686
www.maarc.org

ARKANSAS - Jan. 7

ANTIQUA RADIO COLLECTORS CLUB OF FORT SMITH MEETING

Fort Smith, AR 1st Baptist Church
1400 Grand Ave. 7:30 pm

Info: Paul Tucker - (479) 782-8178

NEW YORK - Dec. 27

SCHENECTADY ANTIQUA RADIO CLUB MEETING

Schenectady, NY - Schenectady Museum &
Planetarium, Knott Terrace

Flea Market: 1:30 pm - Meeting: 2 pm

Info: David Ellers - (518) 326-6042
<http://dadellers.tripod.com>

NEW JERSEY - Jan. 8

NEW JERSEY ANTIQUA RADIO CLUB MEETING

Princeton, NJ - Bowen Hall
70 Prospect Ave. • 7:30 pm

Info: Marv Beeferman - (609) 693-9430

Richard Lee - (914) 589-3751

E-mail: radiorich@prodigy.net

Join us on our live webcast: www.njarc.org

WASHINGTON - Jan. 2

RADIO ENTHUSIASTS OF PUGET SOUND MEETING

Seattle, WA - Queen Ann Library
400 W. Garfield

2 pm

Info: REPS - (206) 488-9518 or
www.repsonline.org

OKLAHOMA - Jan. 9

OKLA. VINTAGE RADIO COLLECTORS MEETING

Oklahoma City, OK Hometown Buffet
3900 N.W. 63rd St.

6 pm: Dinner - 7 pm: Meeting

Info: Jim Collings - (405) 755-4139

jrcradio@cox.net - www.okvrc.org

NEW YORK - Jan. 3

GREATER NEW YORK VINTAGE WIRELESS ASSOCIATION SWAP MEET & MEETING

Locations: TBA 8 am - 1 pm

Info: Jim Koehler - (516) 623-0035

Rich Lee - (914) 589-3751

OREGON - Jan. 9

NORTHWEST VINTAGE RADIO SOCIETY MEETING & TAILGATE SWAP

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

Swap: 8:30 am - Meeting: 10 am

Info: www.nwvrs.org

OHIO - Jan. 5

ANTIQUA RADIO COLLECTORS OF OHIO MEETING

Dayton, OH - 2929 Hazelwood Ave. • 7 pm

Info: Karl Koogler - (937) 294-8960

E-mail: karlkrad@sisc.com

COLORADO - Jan. 10

COLORADO RADIO COLLECTORS MEETING

Call David Boyle for details

1-4 pm

Info: David Boyle - (303) 681-3258

NEW MEXICO - Jan. 10

NEW MEXICO RADIO COLLECTORS CLUB MEET

Albuquerque, NM - Kaseman Presbyterian
Hospital

8300 Constitution Ave. (W. of Wyoming)

1:30 pm: Tailgate Swap Meet

2 pm: Program, Show & Tell and Auction

Info: Chuck Burch - (505) 286-9674

chuckBurch@aol.com

<http://members.aol.com>

PENNSYLVANIA - Jan. 12

DELAWARE VALLEY HIST. RADIO CLUB MEETING - SWAP - AUCTION

Telford, PA - Telford Community Building
Hamilton & Hamlin

7:30 pm

Info: Delaware Valley Historic Radio Club

PO Box 5053, New Britain, PA 18901

www.dvhrcc.org

GEORGIA - Jan. 11

SOUTHEASTERN ANTIQUE RADIO SOC. MEETING WITH SHOW & TELL

Norcross, GA - Fire Mountain Rest.

Jimmy Carter Blvd. • 6:30 pm

Info: Rich Rodgers - (678) 591-3619

www.sarsradio.com

ARKANSAS - Jan. 14

ARKANSAS ANTIQUE RADIO CLUB MEETING

Call for location and directions

7 pm

Info: Tom Burgess - (501) 455-0773

MISSOURI - Jan. 12

ANTIQUERADIO COLL. & HIST. SOC. OF GREATER ST. LOUIS MEETING

Kirkwood, MO - Kirkwood Comm Ctr

111 S. Geyer Rd. Room 201-A

7:30 pm

Meeting - Show & Tell - Swap Table

Info: Joe Tauser - (314) 616-0745

joe@jtauser.com

OHIO - Jan. 16

ESTES AUCTIONS RADIO AUCTION

Burbank, OH - Expo Auction Center

8157 Garmon Rd., Exit 204 off I-71

10 am

Info: (888) 769-4992 - Fax: (330) 769-4116

www.estesauctions.com

NORTH CAROLINA - Jan. 12

EAST CAROLINA ANTIQUE RADIO CLUB MEETING

Greenville, NC - Sheppard Memorial Library

Meeting Room A

530 Evans St.

7 pm

Info: Herman Schnur - (252) 752-2264

TEXAS - Jan. 16

TEXAS ANTIQUE RADIO CLUB MEETING

Kyle, TX - Railroad BBQ • 10:30 am

Info: Ed Engelken - EdEngel@gvtc.com

(830) 899-3864

www.gvtc.com/~edengel/TARC.htm

OHIO - Jan. 12

SOCIETY FOR THE PRESERVATION OF ANTIQUERADIO KNOWLEDGE (SPARK) MEETING

Kettering, OH - Parkview Comm. Center

4100 Glenheath

7:30 pm

Info: Jeff Bothwell - (937) 854-7106

jbothwell@butlertownship.com

TEXAS - Jan. 16

VINTAGE RADIO & PHONOGRAPH SOC. MEETING

Irving, TX - Senter East Building

9 am - 12 Noon

Info: George Potter - (972) 353-4862

vrps@sbcglobal.net - www.vrps.org

Changes, cancellations and errors do occur. To avoid disappointment, verify place, date and time especially for events which are new to you.

MARYLAND - Jan. 17

**MID-ATLANTIC ANTIQUE RADIO CLUB
MEETING**

Davidsonville, MD - Davidsonville Rec Center
3727 Queen Anne Bridge Road
Tailgating: 11:30 - Meeting: 1:30 pm
Info: Geoff Shearer - (703) 818-2686
www.maarc.org

OHIO - Jan. 23

**CENTRAL OHIO ANTIQUE RADIO ASSOC.
ANTIQUe RADIO SHOW & FLEA MKT**

Columbus, OH - 1677 S. Hamilton Rd.
I-70 Hamilton Rd. Exit 107 go North to first light,
turn right to Leewood Elementary School
8 am - 10:30 am
Info: Chuck Davis - (614) 792-6237
Dave Pollard - (614) 890-5422

TENNESSEE - Jan. 17

**MEMPHIS ANTIQUE RADIO CLUB
MEETING**

Memphis, TN - St. Timothy United Methodist
Church - 4105 St. Elmo Ave.
2 pm
Info: Ray Eaton - (731) 989-7089
marcmemphis@gmail.com

WISCONSIN - Jan. 24

**WISCONSIN ANTIQUE RADIO CLUB
SWAP MEET**

Milwaukee, WI - 5917 S. Howell
Near Airport
8 am - 12 Noon
Info: Bill Engaas - (262) 786-8183
craftyradio@earthlink.net

WASHINGTON - Jan. 17

**PUGET SOUND ANTIQUE RADIO ASSN.
MEETING**

Seattle, WA - Shoreline Museum
749 N. 175th & Linden Ave.
10 am - 12 Noon: Tailgate Swap
12 Noon: Meeting, Program, Show & Tell
Info: Pete Peterson - (425) 747-1323
<http://www.eskimo.com>

ALABAMA - Jan. 25

**ALABAMA HISTORICAL RADIO SOC.
MEETING**

Birmingham, AL - Alabama Powe Bldg.
Parkway East • 7 pm
Info: Dave Cisco - (205) 822-6759
www.alabamahistoricalradiosociety.org

FLORIDA - Jan. 18

**JACKSONVILLE ANTIQUE RADIO SOC.
MEETING**

Jacksonville, FL - Countryside Village
Clubhouse, 10960 Beach Blvd.
7:30 pm
Info: Sean Olin - (904) 386-8332
www.jarsradioclub.com

MICHIGAN - Jan. 30

**MICHIGAN ANTIQUE RADIO CLUB
WINTER MEET**

Farmington Hills, MI • 8 am
Info: John Den Hartigh - (269) 217-0539
www.michiganantiqueradio.org

OKLAHOMA - Jan. 21

**HEARTLAND ANTIQUE RADIO ASSOC.
MEETING (TULSA AREA)**

See Website for meeting location • 7 pm
Info: Dan Wellacher - 620 Spunky Rd.
Catoosa, OK 74015
www.hiara.org

MASSACHUSETTS - Feb. 14

**GREATER BOSTON ANTIQUE RADIO
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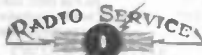
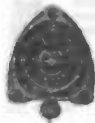
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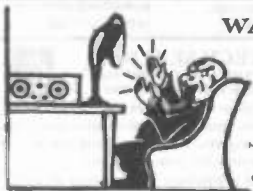


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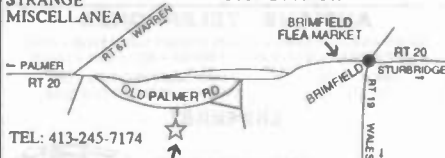
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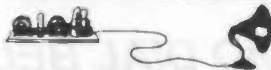
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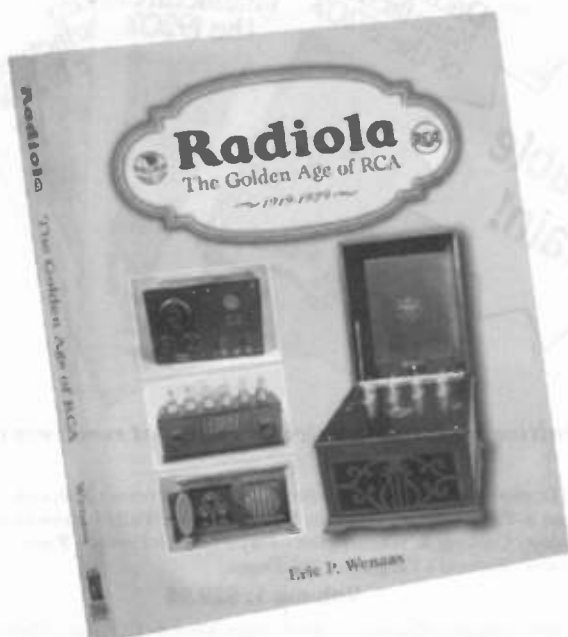
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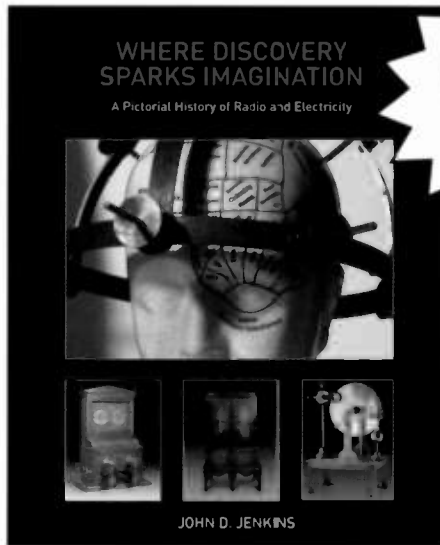


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