



ANTIQUE RADIO CLASSIFIED

VOLUME 4

MAY 1987

NUMBER 5



ECHOPHONE MODEL S-5

THE NATIONAL PUBLICATION FOR BUYERS AND SELLERS  
OF OLD RADIOS AND RELATED ITEMS - PUBLISHED MONTHLY



ANTIQUE RADIO CLASSIFIED

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# ANTIQUE RADIO CLASSIFIED

## Publishing Details

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## Purpose

Antique Radio Classified is published for people involved in the radio collecting hobby. Its purpose is to stimulate growth of the hobby through the buying, selling and trading of radios and related items, and to provide a monthly forum for the interchange of ideas and information.

## Writing to Antique Radio Classified

All correspondence should be sent to:

Antique Radio Classified  
 P.O. Box 2, Carlisle, MA 01741.

Your ads, renewals, letters, etc. can be handled faster and more efficiently if (1) each is on a separate page or card and (2) your name, address and SUB# is written on each.

Unfortunately, we at A.R.C. cannot personally answer questions or respond to requests for advice. However, A.R.C. solicits letters of interest to its readers and will publish them as space permits.

## Guarantee

You may cancel your subscription at any time and receive a pro-rated refund of that part of your subscription not yet mailed. If requested, errors in classified or other ads which are due to A.R.C. will be rerun in the next available issue free.

## Change of Address

Please notify us 4 weeks in advance of a change of address in order to receive uninterrupted copies of A.R.C. Please include your old address, SUB# and expiration date along with your new address. Note when the new address is effective. Temporary address changes can be made also.

## Display and Business Card Ads - Details and Rates

The deadline for artwork and payment for display and business card ads is the first of the month. Payment for continuation of ads also should be received by this date to insure the continuation of your ad. Late ads will be run only if space and time permits.

As artwork is reduced to 63% in the printing process, originals should be the artwork size listed below. Ads should be typeset or typed neatly with a carbon ribbon. If you want us to prepare your ad, include the optional cost for layout listed below. Minor changes will be made to ads sent in or already running for a \$2.00 charge.

Page	Artwork		As Printed		Cost		Optional Cost for Layout
	H x W (inches)		H x W (inches)		1-month	3-months	
Full	10 1/2 x 7 1/2		6 5/8 x 4 3/4		\$45.00	\$121.50	\$20.00
1/2 H	5 1/4 x 7 1/2		3 5/16 x 4 3/4		22.50	60.75	10.00
1/2 V	10 1/2 x 3 9/16		6 5/8 x 2 1/4		22.50	60.75	10.00
1/4	5 1/4 x 3 9/16		3 5/16 x 2 1/4		11.25	30.37	5.00
1/8	2 5/8 x 3 9/16		1 5/8 x 2 1/4		5.75	15.52	3.00
Business Card	1 5/8 x 3 1/2		1 x 2 1/4		3.90	10.50	2.00

Photos should be at an 85 line screen. When A.R.C. is preparing the ad, add \$5.00 per photo. Write A.R.C. with your ad ideas, and we will be happy to give you an estimate as to how much the ad will cost and/or recommend an ad size, etc.

## Advertising in A.R.C.

Each subscriber is entitled to one 20-word classified ad free of charge each issue; multiple insertions of the same ad are limited to two consecutive months. Boxed-classified ads, display ads and business card ads do not have the multiple insertion limitation. Display ad details appear below; classified ads details are on the inside back cover.

## Payment

All payments must be made in U.S. funds; checks drawn on a U.S. bank or money orders are preferred. Make check out to "A.R.C." Cash or stamps are OK for small amounts. Canadian payers may send a Canadian check in U.S. funds, but must add \$1.00 (U.S.) for conversion costs. Traveler's checks made out to A.R.C. are acceptable also. On request, subscriptions will be pro-rated to amount sent, provided the term is at least one year.

Please send in full payment with your order or ad. A.R.C. does not carry accounts; all subscriptions, ads, etc. must be prepaid.

## Submission of Material

Antique Radio Classified welcomes and solicits any information that pertains or relates to the radio collecting hobby. This may include material such as articles, upcoming radio events, meetings, radio books and publication reviews, new radio clubs and organizations, radio auctions and price reports, sources of old radio and restoration supplies, and any other material that would be of interest to the hobby. All material submitted should be typewritten and verified for accuracy. Unless prior arrangements are made, all submitted materials become the property of Antique Radio Classified and will not be returned.

## Mailing of Antique Radio Classified

A.R.C. is available by subscription in the U.S. either by First Class or Second Class mail. First Class copies usually are received by the first of the month; copies by Second Class mail, by the tenth. The mailing of First Class copies is staggered, with those living farthest away mailed on the first day, and local copies mailed the last day. All non-U.S. copies are mailed on the first day. All Second Class copies are mailed on the last day. Mailing is usually completed by the 25th of the month.

## Fine Print

The publisher is not responsible for any buying and selling transactions incurred by anyone through the content of this publication.

Antique Radio Classified subscription and ad rates are subject to change, as well as frequency of publication, content and size.

## Ethics

All persons involved in the production of A.R.C. are not to act on any information in the magazine until they receive their regular subscription copy in the mail.



## EDITOR'S COMMENTS

The news this month is that **Antique Radio Classified** has pushed over the 2,000 subscriber mark. The result, as you can see, is another 36-page, nearly 200-classified-ads issue! A.R.C. is healthy and growing. Read on for a bonus for you who have helped make A.R.C. a success!

Our lead article this month is by Stewart Siegel and describes the restoration and conversion of an Atwater Kent Model 61 from DC to AC operation. Although this might be considered sacrilege to the purists, Stewart terms it a "practical restoration."

Harry Poster has contributed an article on a Pre-WWII Meissner TV kit. I hope that he and you other television folk will get out your pen and camera and make Vintage Television a regular feature in A.R.C.

Nearly 300 items are listed in the report on the Glenn Baird estate auction. Thanks to Craig Huseboe for providing the bid results. Also in this issue is a short report on the Vintage Radio and Phonograph Society "Convention 86" auction; sorry for the delay in publishing this information.

Frank Heathcote's Echophone Model S-5 is featured on the cover and in this month's Collectors Corner. This issue includes the Photo Review and a movie review of Woody Allen's *Radio Days*, written by Chris Frederickson of A.R.C.'s staff.

Two of our contributors have passed away recently, Glenn Baird and J.K. Bach. Glenn had written an article on the Henry Field Seed and Nursery Co., and J.K. Bach, a review of Radio Electronics' reprint of E.I. Catalog No. 20. We have included both of these articles in A.R.C. this month.

The "bonus" mentioned above: One free copy of A.R.C. is offered to those of you who renew your subscription early. You will receive 13 issues instead of 12 if you renew before the end of your expiration month, the month printed on your mailing label. This is a small way to say "thanks" to you who have been supporting **Antique Radio Classified**. You will receive two free issues if you extend your subscription for two years. It may seem a bit early for the majority of you whose subscriptions do not expire until August of this year, but some have already extended their subscription into 1989! This bonus offer will extend at least through the end of 1987.

A note to those who have recently renewed: you will get the "same deal" if your expiration date was after Mar87 (old 8704), and if you renewed or extended your subscription "early." Your expiration date will be increased by one

month on the June mailing labels.

There still appears to be some confusion on the mailing label expiration date format change made last month. Here is the story. The files originally set up for A.R.C.'s subscriber list kept track of each subscriber's "first issue not to be sent." That month was printed on your labels and was the month following your last copy. The present subscription filing system now maintains your "last issue to be received." As of the April issue, mailing labels show the last issue you will receive. No one has lost any issues of his subscription with this change.

Both the Masthead and the Classified Ad Policy have been rewritten this month; don't worry, there are no classified ad price increases! I hope that the new explanations will clarify many questions. The Classified Ad Policy is now on the inside-rear cover.

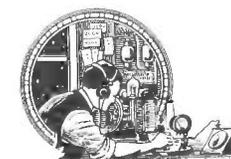
The Masthead, on the inside-front cover, now includes the names of the people who help publish A.R.C. It also describes how A.R.C. is mailed and contains a guarantee and a statement of ethics for those involved in A.R.C.'s production.

Antique Radio Classified was responsible for a full page in the May 1987 issue of *Radio Electronics* magazine. This issue's feature was "Electronics in the Next Century, 2001," which is a 41-page look into the future. The back page of this section was A.R.C.'s listing of antique radio clubs. This national exposure is appreciated by A.R.C., and hopefully will bring new collectors to the clubs and perhaps new subscribers to A.R.C.

A.R.C. is preparing a new listing of clubs. If your club has not been listed in the March, April or May issues of A.R.C., please forward details so that they can be included in our list.

I hope you enjoy this issue.

John V. Terrey



## ON THE COVER

The cover this month shows Frank Heathcote's Echophone Model S-5 which is featured in this month's Collectors Column. The seven-tube superhet was introduced in early 1930, and was the most compact of the midget superhets on the market at that time.

Read more about this set in Frank's article.

# WITH THE COLLECTORS

Here is an article about a determined collector and his salvage efforts in restoring a Direct Current radio to a fully functional electric set. In most cases, collectors would be a little hesitant in attempting such a difficult job. But, as shown in the article, the effort was well worth it. It is hoped that this article will inspire others to get that "impossible restoration" into a working radio. (GBS)

## Converting an Atwater Kent Model 61 (D.C.) set to A.C. operation

By Stewart Siegel

In 1975, my uncle discovered a 1928 Atwater Kent Model 61 (type 15300) screen-grid receiver and F-2-A dynamic speaker in back of some dusty sheets of plywood in the basement of his Manhattan loft building. Possibly, the metal-box 120-volt direct-current set was owned by a tenant during the 1930's, when that section of Manhattan's SoHo district was serviced by DC mains.

Two years ago, my uncle gave me the set for inspection. It was basically complete, with tubes intact, and it cleaned up well. But, internally, the many years of basement storage were not kind. Dampness and rot had embrittled the wiring insulation to the point where it crumbled like mummy wrapping. In addition, the speaker was water damaged at one time, leaving the choke coil a mass of corrosion.

Although we had no plans to return the AK 61 to absolute "original" condition, our strategy was to convert it to 120 volts AC power and then somehow get it playing again as a practical restoration.

We solved the speaker problem with a spare AK F-type speaker. The replacement, which lacked the centering spider and pole-piece stud spacer, fit right into the F-2-A housing. Another F speaker's stud was found, and a centering spider formed by hand.

The chassis proved extremely challenging. Besides missing the top shield and line plug, a careless amateur had performed some crude rewiring. The line switch operation was uncertain, and the local-distance switch needed resetting. The dial-drive rubber bushing had hardened. On the mechanical side, however, the tuning condenser mechanism worked okay.

Circuit testing revealed component complications. The RF line chokes were cooked; the 1st RF coil had an open primary winding, and

was probably misaligned. The filter condenser block was kaput. The grid leak read 9 megohms.

Since a salvage job of this magnitude was beyond my capability, I put the 61's chassis aside for a pro, and concentrated on cosmetics, stripping and relacquering its metal box and lid, refinishing the speaker housing, pedestal, and installing new grille cloth.

Later, when I had the opportunity, I delivered the chassis to Bill Bliss, an affable radio and TV serviceman and U.S. Navy vet who runs a small radio repair shop in Chillicothe, Illinois. Bill, who had done antique radio repairs for me in the past, is a science-fiction writer and inventor. He is also a prodigy who skipped the formal education stage by learning to read by himself at age four. He once told me, "The first book I picked up and read was a physics textbook."

In a showcase in his office, Bill keeps a mint condition Freed-Eisemann NR-6, which he got from his grandpop in 1938, along with collections of Spike Jones 78-rpm platters and antique typewriters.

He studied the screen-grid chassis as I unwrapped it on his workbench. When I asked for a prognosis, Bill puffed on his pipe, shrugged and said, "No problem!" However, knowing Bill likes plenty of lead time when working on old radios, I gave him about nine months.

The next time I came to Peoria on business, I drove 20 miles north to Chillicothe for a visit, and found good progress. "The way to convert a DC set to AC operation," he explained, "is to build a 110-volt AC power supply." But, since the AK 61 needed so many repairs (the bank of flat-wound dropping resistors was in poor condition, too), Bill felt the best approach would be to build a special 28-volt DC power

supply just for the tube filaments. "With modern small parts," he reasoned, "the original appearance of the set would not be radically altered, although it might *grooch* some purists."

By slightly revising the 61's filament and power-supply circuits, Bill was able to sidestep a potential problem with type-22 screen-grid tubes. "There is a difficulty with these tubes that isn't mentioned in the manuals," Bill informed me, pointing out that they have 3.3 volt filament voltages, the same as types 99 and 120. But, Bill said, "If 22's are operated at more than 2.5 volts, the filaments tend to sag, and eventually they short onto the grids."

After rewiring the filament circuit, he found voltages on three 22's ranged from from 2.2 to 3.1 volts. Bill applied shunt resistors to each one. "The type-22 tubes have a .132 amp filament current, so a 9-ohm resistor shunts the excess around them. If voltage gets too high," he noted, "the filaments' thorium oxide layer would be quickly lost; I have had good tube performance and longevity running 01A's at only 4 or 4.5 volts." (Bill pointed out that he had 22's with both 60 and 135 milliamper filament, and he noted that one of the AK 61's two 112A's had a half-ampere, instead of a quarter-ampere, filament, and one of the two 71A's also had a half-ampere filament.) Shunting evened everything up nicely, with 150 ohms across each filament. "Why, I dunno," he said. "One of those mysteries of nature."

He remarked that he had seen lots of modifications on screen-grid sets way back, even when they weren't old. "In the 1930's," he told me, "I hooked up a lot of pentodes as triodes to improve tone and added filters to

eliminate hum. Then, of course, during World War II there was a lot of radical jury-rigging to keep sets going despite the parts shortage. Once I stacked up three 12H6 tubes to replace a 35Z5, and used tubulars to replace a freak filter condenser in a Sparton."

After Bill finished rewiring the 61's filament circuit, he replaced the 1st audio with a new resistance coupling, and informed me, in a technical aside, that in case there was too much bass response, which might cause intermodulation distortion, the size of the coupling condenser could be reduced. He figured things out precisely, though, as the bias voltages to tap the grid returns along the filament strings were on the money.

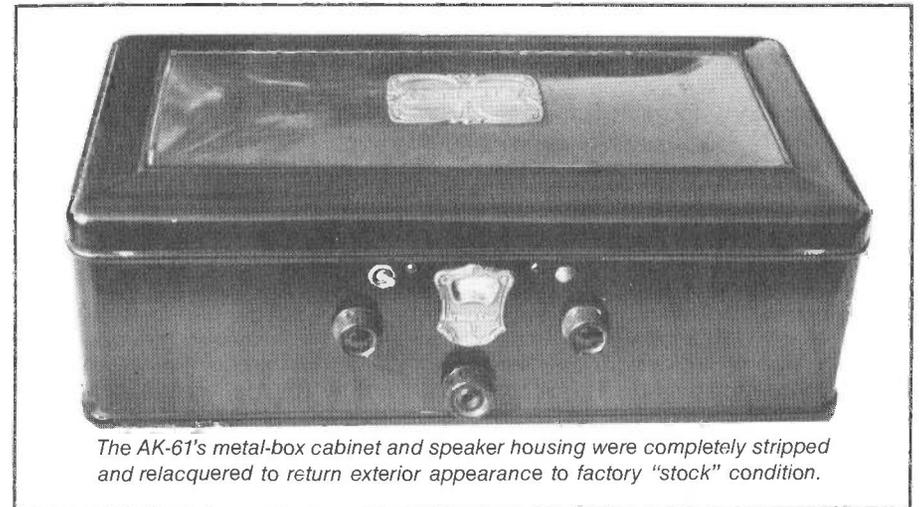
Bill felt I had lucked out with my replacement AK speaker. Age had stiffened the cone paper and actually improved it. "It has a clear tone instead of the typical AK rumble tone," he observed.

The speaker's field coil measured 900 ohms and 30 volts was enough, so Bill connected it across the DC filament supply. "That," he added, "also made it practical to use any other kind of speaker with the set."

Then, Bill fabricated a simple B-plus supply, a half-wave rectifier right off the AC line, keeping the original filter chokes. A line fuse was added. "I am a firm believer in fuses," he cautioned. "They can keep a minor failure from getting a lot worse."

The best cure Bill ever found for regeneration, a potential problem in sets with three stages of screen-grid RF amplification, is to place a 10,000 ohm resistor across the first stage coil. "RF stage regeneration causes

Continued on page 8



The AK-61's metal-box cabinet and speaker housing were completely stripped and relacquered to return exterior appearance to factory "stock" condition.

IT'S WORTH A LEG OR TWO  

**AUCTION REPORT**

## Glenn Baird Estate Antique Radio Auction

By John V. Terrey and Craig Huseboe



Over 160 bidders were present for the auctioning of over 300 radios and radio items at the Antique Auction Center, Marshalltown, Iowa, on Saturday, March 28, 1987. Gene Harris was the auctioneer. The event drew international interest as bidders from as far as Japan and England were represented.

The radios were from the collection of Glenn Baird, who passed away at the age of 78 in October 1986. Glenn had been in the radio repair business for 48 years and retired at the age of 75.

His collection of radios was extensive; he appreciated the lesser known sets equally with the most desirable sets. Elsewhere in this issue is an article he wrote on the Shenandoah Five and Super-Six receivers, manufactured by the little-known Field Seed & Nursery Co.

A warning: Auction prices cannot be interpreted as current values. The prices paid at an auction depend on who is present; if two people want the same difficult-to-find (but not necessarily rare) set, the price can go well above the current value of the set. Likewise, a lack of interest in common sets can result in depressed prices. The prices listed here are only another element of the value determining process.

A condition code (obtained from the auction brochure) of "e", "g" or "f" is included, in parentheses, for each item. The code describes the general appearance of the set as follows: e = excellent (however, it may have been restored or in need of a little restoration), g = good (good condition, but needs restoration), and f = fair (in definite need of restoration, possibly major). AC sets are so marked if the information was available.

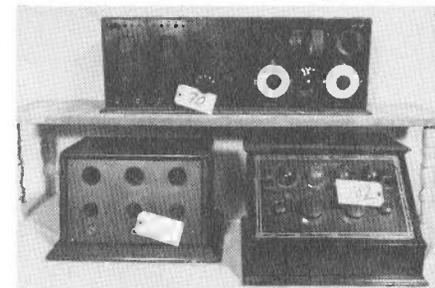
Where several sets of the same model were offered, the information has been combined in a single listing with the individual condition codes and prices listed. The list also has been alphabetized for convenience.

### RADIOS AND TELEVISIONS

A.C. Dayton Model XL 5 (g).....	90
A.C. Dayton Model XL 20 (g).....	85
A.C. Dayton Type XL15, Console Cab. (g).....	125
Adler-Royal (e).....	300
Admiral Model 19A12S 5" TV (g).....	45
Advance Model 1820 (e).....	90
Aeriola Senior (g).....	210
Airline (g).....	40
Airline Chassis #326W Cathedral (f).....	115
American Beauty 5 Tuber (f).....	20
Amrad Neutrodyne (f).....	90
Amrad Neutrodyne Model S-522 (e).....	70
Apex 5 Tuber (e).....	40
Apex No Name Factory Radio (e).....	70
Arborphone Model 27 (e).....	60
Atwater Kent Kit Breadboard (f).....	375
Atwater Kent Model 9 Breadboard (e).....	800
Atwater Kent Model 10 #4340 (f).....	260
Atwater Kent Model 10 #4600 (g).....	475
Atwater Kent Model 10 Breadboard (e).....	550
Atwater Kent Model 19 (e).....	260
Atwater Kent Model 20... (f) 27.50; (g) 50; (e) 25	
Atwater Kent Model 20 Compact (f).....	35
Atwater Kent Model 20 in Original Shipping Carton (e).....	145
Atwater Kent Model 20 Deluxe... (f) 55; (e) 165	
Atwater Kent Model 33 (g) 35 & 40; (e) 75 & 75	
Atwater Kent Model 35 (f).....	40
Atwater Kent Model 37, AC (f).....	40
Atwater Kent Model 47 W/Speaker, AC (f).....	30
Atwater Kent Model 48 (e).....	50 & 60
Atwater Kent Model 49 (e).....	100
Atwater Kent Model 60 in Kiel Table (e).....	250
Beardsley Radio Shop 3 Tuber (g).....	215
Bosch Amberola (e).....	120
Bosch Little Six Model 48 (g).....	35
Bosworth Model B-1 (e).....	150
Bremer-Tully Counterphase (f).....	45
Browning Drake Model 5R..... (f) 45; (e) 70	
Brunelli-Jones (e).....	90
Case 5 Tuber (g).....	50 & 55
Chelsea Model Z.R. 30 (e).....	130
Chelsea Super 5 (e).....	75
Clapp-Eastham Model HZ: Early Version (e) 195; Late Version (e) 90	
Claratone (f).....	25
Clarion Model 320, AC (g).....	65
Cleartone Series 110, AC Kellogg tubes (g).....	170
Colonial Model 12 (f).....	45
Crosley 3R3..... (f) 40; (e) 50	
Crosley Model 4-29 (e).....	120
Crosley Model 5-38 (f).....	55
Crosley Model 5-50 (e).....	65

Crosley Model 51 (g).....	70
Crosley Model 52 (g).....	80
Crosley Model 52SD (e).....	110
Crosley Model 52TP with Phono, AC (g).....	20
Crosley Model 567 "Fiver", AC (g).....	60
Crosley Model VI (e).....	140
Crosley Model X (g).....	85
Crosley Super Trirdyne Regular (g).....	55 & 70
Crosley Super Trirdyne Special (g).....	80
Crosley Trirdyne (f).....	40
David Grimes Baby Grand Duplex (e).....	95
Day-Fan 5 (g).....	60
Day-Fan Model OEM 11 (g).....	45 & 50
Day-Fan Model OEM-7 (g).....	35
DeForest Interpanel (e).....	1150
Des Moines Super Set (g).....	50
Diamond T (g).....	90
Echophone Short Wave Receiver (e).....	40
Emerson Model 611 Television (f).....	30
ERLA (e).....	120
ERLA S-50 (g).....	20
ERLA Circloid Five (e).....	110
FADA Model 160 (g).....	85
FADA Model 185A (g).....	60
FADA Model 192A (g).....	45
Federal Model 61 (e).....	1100
Federal Model A-10 (g).....	70
Federal Model DX-58 (g).....	475
Freed Eisemann Model FE-15 (e).....	170
Freed-Eisemann Model NR 45 (e).....	120
Freed-Eisemann NR 5 (e).....	70
Freshman Masterpiece..... (f) 30 & 30; (g) 20, 35 & 55; (e) 95	
Freshman Masterpiece Box, empty.....	20
Galloway Salisdyne (g).....	130
Garod Model 5 (e).....	90
Garod Model RAF (g).....	70
Globe Duodyne Model 815 (e).....	450
Globe Duodyne Model 830 (e).....	170
Globe Duodyne Model 900 (e).....	190
Globe Model 526 (g).....	55
Globe Model 626 (e).....	65
Golden Luetz PLIO 6 (g).....	245
Grebe Model CR-9 (f).....	260
Grebe Synchronphase 7, AC (e).....	190
Grebe Synchronphase (e).....	145
Grunow Model 620 Tombstone, 6-volt (g).....	30
Grunow Teledial Console Mod. 1291, AC (e).....	230
Hallcrafters Model S41G (g).....	25
Howard Tombstone, AC (g).....	90
Kellogg Wavemaster (e).....	105
Kennedy Model 20 Type 440 (e).....	250
Kennedy Model V (e).....	375
Kennedy Model VI (e).....	400
Kennedy Model XV (e).....	300
King 5 Tuber (e).....	110
King Model D (g).....	50
Kismet (g).....	50
Klitzten 3 Tuber (g).....	175
Kolster Model 6D (f).....	25 & 35; (e) 35
Logodyne Standard Five (g).....	60
Magnavox Model AC-2 Amplifier (e).....	375
Magnavox Model J (e).....	185
Majestic Model 776 Art Deco Console, AC (g).....	130
Majestic Model 461 Art Deco, AC (g).....	60
Marwol Model 6 (e).....	70
Master Parmak 3 Tuber (e).....	185
Metrodyne (Fancy Silk-screened Panel) (e).....	380

Metrodyne Super 5 (f).....	50
Meyers Tube in Socket.....	60
Michigan 1 Tuber (e).....	105
Michigan MRC3 (e).....	400
Midland Wooden Table Radio, AC (g).....	20 & 25
Miraco 2 Tuber, lid missing (f).....	105
Miraco Ultra 5 (g).....	50
Motorola 7" TV Bakelite Cabinet (g).....	50
Neutrowound (f).....	165
Nightingale (g).....	40
Ozarka Model S-1 (e).....	130
Paramount 3 Tuber (g).....	90
Paramount Radio Shop 2 Stage Amp. (e).....	250
Payne (g).....	35
Pfhanstiel Model 20 (g).....	50
Philco Mod. 38-93 Semi-Cathedral, AC (g).....	70
Philco Model 37-89 Cathedral, AC (e).....	160
Philco Model 89 Cathedral, AC (e).....	175
Philmore Crystal Set (e).....	40 & 60
Precision Ace Type 3B (e).....	140
RCA Model 7T Tombstone AC (g).....	60
RCA Model 9K3 Console, AC (e).....	72.50
RCA Model 19K Console, AC (e).....	130
RCA Model 118 Tombstone, AC (f).....	50

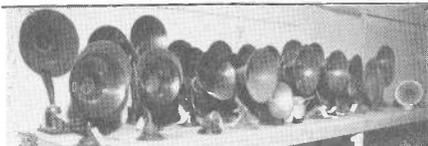


These three sets were bid to a total of \$2300. Lower left is the Zenith 3-M (\$800), on top is the DeForest Interpanel (\$1150) and on the lower right is the Kennedy Model VI (\$400).

RCA Model C15-3 Console, AC (e).....	260
RCA Radiola 20 in Desk Style Cabinet (g).....	90
RCA Radiola 28 (Front Missing) (f).....	65
RCA Radiola Balanced Amplifier (e).....	200
RCA Radiola Model 17, AC (g).....	40
RCA Radiola Model 20 (e).....	80
RCA Radiola Model 25 (e).....	100
RCA Radiola Model 26 (f).....	200
RCA Radiola Model Super VIII (e).....	230
RCA Radiola Model V, no lid (g).....	165
RCA Radiola RC, RADA in one cabinet (e).....	325
Regency Model TR-1 Transistor Radio..... Red Case (f) 135; White Case (g) 160	
Rely-O-Dyne (e).....	100
Shenandoah Five (g).....	80
Shenandoah Made by Sleeper (e).....	80
Shenandoah Super Six (g).....	50
Sherwood-Brookes 5 Tuber (g).....	30
Signola Model J-6 (g).....	40
Silvertone Model 7048 Cathedral, AC (e).....	150
Sparton (g).....	45
Splendid Model B, 1 Tuber (e).....	275
Splitdorf Model R-500 (f).....	20
Splitdorf Model R-582 (g).....	40

Continued on following page

St. Regis Model 781, AC (g).....	25
Steinite 1 Tuber (e).....	155
Steinite Crystal Set (e).....	235
Stewart Warner Chassis #P23623 Console With Remote Control, AC (g).....	90
Stewart Warner Model 300 (e).....	40
Stewart Warner Model 303 (g).....	45
Stewart Warner Tombstone, AC (g).....	140
Stromberg-Carlson Model 1A (e).....	150
Superior Super Five (g).....	35
Tangley 5 Tuber (g).....	140
Thompson Neutrodyne Model V-51 (e).....	55
Thorola Islodyne (g).....	70
Thorola Model 60 (g).....	55
Trav-Ler Portable (g).....	40
Tuska Model 225 (g).....	200
Unknown Factory Radio (e).....	50



**SPEAKERS**

Ajax Horn (e).....	60
Atwater Kent Type E Speaker .....(g) 30 & 45; (e) 70	
Atwater Kent Model E2 Speaker (g).....	25 & 45
Atwater Kent Type E3 Speaker (g).....	55
Atwater Kent Model H Horn (g).....	55 & 90
Atwater Kent Model L Horn (g).....	80
Atwater Kent Model M Horn .(f) 35; (g) 40 & 70	
Baldwin Horn Speaker (g).....	45
Burns Morning Glory Horn, Black (e).....	185
Crosley Musicone Speaker (e).....	85
Crosley Super Musicone Speaker .....(g) 80; (e) 125	
Dictograph Horn, Brass Bell Style (e) 60 & 155	
Kellogg Symphony Horn (e).....	70
Kolster Model K6 Speaker (g).....	30

AK 61, continued from page 5

tedious tuning and amplitude distortion and clipping of the sidebands," he said.

Part of the AK 61's 1st RF primary was open, he continued, and having every size of replacement winding in stock but that one, he used a BC oscillator coil, which also worked well for the other RF stages. A top shield was salvaged from an AK 60 parts set that Bill had in his garage.

One change not noted on the schematic diagram (Editor's note: schematic not shown) is an alteration in the volume control: It now varies all three screens, not just two.

I returned the AK 61 to my aunt and uncle a couple of months ago. With great pride I set it up in their home. They marveled over its

Unknown Kit Radios:

.....(f) 90; (g) 30, 50, 60, 90 & 170; (e) 50	
US Apex Cathedral (f).....	150
US Radio & TV Mod. 24 Cathedral, AC (e).....	150
Western Coil Model WC-17 (e).....	110
Western Electric Model 7A Amplifier (g).....	575
Westgate (g).....	40
Westinghouse Type AC, 2-Tube Amp. (g).....	425
Workrite (g).....	60
Zenith 1R Operating Brochure.....	65
Zenith 8-S-243 Console Radio Box, empty.....	65
Zenith Chassis #5416 Portable (f).....	10
Zenith Model 1R (e).....	450
Zenith Model 3M Amplifier (e).....	800
Zenith Model 3R (e).....	350
Zenith Model 6J230, AC or 6 Volt (e).....	110
Zenith Model 14E, AC (f).....	50
Zenith Model 33X (f).....	30
Zenith Super 7.....(f) 50; (g) 100	
Zenith Super 8 (Super 7 with Legs) (e).....	130

Magnavox Model R-2B Horn (g).....	90
Magnavox Model R-3D Horn (g).....	130
Magnavox Wooden Mantel Speaker (e).....	50
Majestic Black Celluloid Horn (e).....	60
Music Master Wooden Horn.....(e) 175 & 185	
Newcombe Hawley Model 22 Speaker (f).....	20
Philco Mantel Type Speaker (g).....	35
RCA Radiola Model 100 Speaker (g).....	15, 20 & 50
RCA Radiola Model 100A Speaker (e).....	30
RCA Radiola Model 103 Speaker (f).....	35
RCA UZ1325 Horn.....(f) 40, 50 & 65; (g) 45	
ROLA Model 20 Mantel Speaker (g).....	35
Saal Jr. Horn (g).....	70
Sonochorde Speaker (g).....	35
Stewart Warner Drum Speaker (g).....	150
Stromberg Carlson Model 2A Horn (g).....	35
Sun Drum Type Speaker (g).....	35
Tower Horn Speaker (g).....	60
Utah Mantel Type Speaker (g).....	25
Utah Drum Speaker (g).....	70
Western Electric Model 518W Horn (e).....	180
WLS Silvertone Horn (g).....	60

reception quality. With a good antenna and solid ground, the AK 61 must have been a spectacular performer in its day. The set was so well engineered and constructed, that despite all it went through, it is ready for another 60 years. Its tone is quite good, even by today's standards, and there is zero line hum, even at full volume. To quote Bill Bliss, that converted AK 61 plays "like wow!"

**Contributed by:** Stewart Siegel, 2 Abigail Road, Danbury, CT 06811. (Those readers desiring further information about the AK 61 restoration or a schematic of the wiring changes, please send a SASE to Mr. Siegel.)

(GBS)



# COLLECTORS CORNER

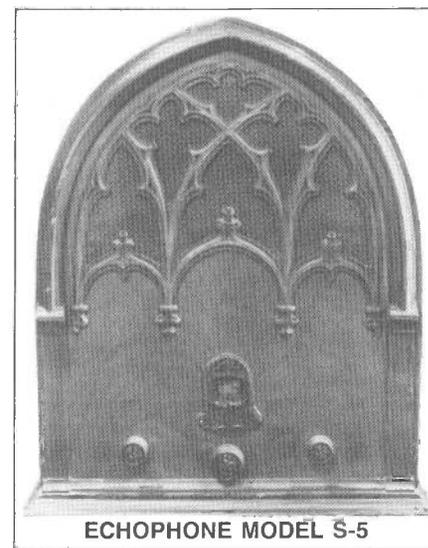
## THE ECHOPHONE MODEL S-5

By Frank Heathcote

Late in 1930, when the midget radio revolution was the sensation of the industry, there was much speculation as to whether or not a superheterodyne chassis could be satisfactorily fitted into a midget cabinet. The December issue of *Western Music and Radio Trades Journal* included two articles on the subject. Supporting the issue was Herb Bell, president of Jackson-Bell, the largest maker of California midget sets. Against it was F.R. Smith, chief engineer and production manager of Western Mfg. Corp., manufacturers of Westerner radios, one of the many small radio companies in southern California.

Herb Bell was enthusiastic about his company's superhet midget radio that was in the works. He was "convinced that a midget super can be made as good as a large super." He touted the superhet's ability to meet the public's demand for a selective distance-getting radio and predicted that on their introduction at a popular price, that dealers could expect their sales to skyrocket.

"Smitty," on the other hand, said that the public was in for a shock if the superhet was put into the midget class. Because he said the first-class parts, expert engineering, and skilled labor necessary throughout every stage of construction was not always available or was purposely left on account of economic considerations. Also, he touted the TRF's ability to play well, even when "off" (out of alignment) a bit. "The super," he said, "must be *right on* or be *way off* on final check, off the production line." He also doubted the average serviceman's ability to fix a superhet and that their troubles with the circuit would break the companies. Further, he was against tampering with the huge success of the TRF midget.



**ECHOPHONE MODEL S-5**

Herb Bell's views prevailed, and in the next issue of WM&TRJ, Fritz Falck's Advance Electric Co., of Los Angeles, took out a full-page ad showing their perfected superhet midget. In the February issue, Austin, Consolidated, Flint, Angeles, Patterson, Echophone, and Remler were advertising superhet midgets. All were West Coast companies except Echophone, which had moved a few months earlier from Hollywood to Waukegan, Illinois.

Echophone's offering was the 7-tube Model S-5, and was by far the most compact, using the same chassis as the earlier 5-tube Model S-3. It featured tone control, illuminated vernier dial, electro-dynamic speaker, push-pull

(Continued on following page)

The Collectors Corner will appear as a regular feature of *Antique Radio Classified*. It is an attempt to build knowledge and interest of radio collectors primarily in AC home receivers of the late 1920's to the 1940's, with emphasis on the lesser known and more unusual styles and brands. Helpful restoration hints will be given where possible. Any questions, comments, or suggestions on this column, the radios featured, or on any other radios may be sent to Frank Heathcote, 1235 N. 3rd St., Logansport, Indiana 46947. Please include a self-addressed stamped envelope for reply.

resistance coupled audio, antenna compensator, Dynatron detector-oscillator circuit (a single tube served for both functions), phono jacks, and extensive shielding. All this for \$69.50. Four type-24's, two 45's, and an 80 tube were used. Some trouble was encountered with the Dynatron circuit, and an improved S-5 was introduced in the March 1931 issue of WM&RTJ. Tube line-up was the same except a type-24 was used separately for the 1st detector and a type-27 added as the oscillator.

The S-5 cabinet measures 17 1/2" tall, 12 3/4" wide, 6" deep, and the set weighs only 21 pounds. The Gothic cabinet is made of figured walnut veneer and the grille of a molded wood substitute. The same cabinet, with various grille, dial escutcheon, and trim modifications, was used in many later Echo-

phone models and by Bush Radio Ltd. of England for their first receiver, the Model AC3 of 1932.

The reception quality of the S-5 is very good with excellent sensitivity and selectivity. Audio response is also quite good as is the workmanship of the set. The very deep chassis of the S-5 makes it quite difficult to work on. This is compounded by the tuning condenser being mounted beneath the chassis, and the fact that the chassis was originally designed as a 5-tuber makes it a very tight fit! The beautiful cabinets of the S-5 and later models make them greatly sought after by collectors. They make a nice addition to any collection. (Frank Heathcote)

The next installment of the Collectors Corner will feature the Pye Model G, a 3-tube AC table radio from England, and a short history of the company that made it.

(GBS)



### The Electro Importing Co. Wireless & Electrical Cyclopedia Catalog No. 20

Reprinted by  
Radio Electronics Magazine

A Book Review by the late J.K. Bach

This book is indispensable to anyone interested in wireless history. It sets the mood for the times. From it you can see limitations and accomplishments in a new light. There are hundreds of items, from a crystal detector to a half-horse gasoline engine. There is even a chemical section with reagents and glassware listed. The prices will sadden you: "Positively no order for less than 50 cents accepted." Local and 1 & 2 postal zones — five cents per pound. But before you become too depressed, remember that the boss made 25 cents an hour — for 60 hours too!

With few exceptions, EICO manufactured its own products, and Hugo Gernsback, the president, had a lot to do with the designs. Some were superior, and would be welcomed today.

Most interesting to me were the tuners. These all were low-frequency types, running from 1500 KC to 85 KC. Some were cabinet models; these had a multi-layer primary with a tap-switch on a little panel. This dog-house assembly would slide back and forth in a slot in

the panel to adjust coupling. Not IP-501 or 106-D, but highly effective. This construction was characteristic. None of the tuners provided for disconnecting dead-end turns as did most commercial tuners, but they cost a lot less too.

There was an electrolytic detector which would have fascinated Fessenden. There was a coherer much less sensitive than Marconi's, but having a high gain nevertheless. A student's Chromic Plunge Battery, for fifty cents, produced two volts and two amps continuously and eight amps peak. If you didn't pull the zinc rod out of the electrolyte when not in use, the zinc rod would become a zinc wire. They didn't fool around in those days. You could also get bulk selenium to make photocells and bulk tinfoil and carbon granules, even a carbon diaphragm.

There is no vacuum tube stuff; this was still war time, and tubes were simply not available. The most curious fact about the catalog is that there is no magnet-wire listed — none!

It is not possible to read this old catalog without learning something about wireless.

*Electro Importing Co. — Wireless & Electrical Cyclopedia, Catalog Number 20, copyright 1918. Size is 5" x 6 5/8" x 3/8" thick, 176 pages. Reprinted by Radio Electronics magazine recently, and is available from: Radio Electronics directly and from Antique Radio Club of America Bookstore, 4204 Thorn Apple Lane, Charleston, West Virginia 25313. Price is \$4.95 plus \$1.00 postage and handling.*

*Editor's Note: I recently received a note from Mrs. Bach saying that her husband passed away in February of this year after a long illness. We will miss his contributions to A.R.C. and to the radio collecting community.*



## MEISSNER PRE-WWII KIT TELEVISION Model No. 10-1153

BY HARRY POSTER

For those TV collectors who have always set their sights on owning a pre-war TV set, there is hope! Although most radio and TV enthusiasts have decided nearly every pre-war set is in collectors' hands (or in some land fill), I have been able to find several in the past year.

Although advertising sometimes helps, I have found most of my early sets by talking to collectors of other items. I recently picked up a 1939 Meissner kit television in just this way.

The Meissner set is of interest. While it is seldom seen, it is a good example of the quality, or lack of it, apparent in TV construction of the late 1930's. The Meissner #10-1153 was a kit-builder's delight featured in its 1939-40 catalog. The set was designed as "an easily built, safe receiver for television sight and sound," covering channels 1 and 2. Two extra channels could be added.

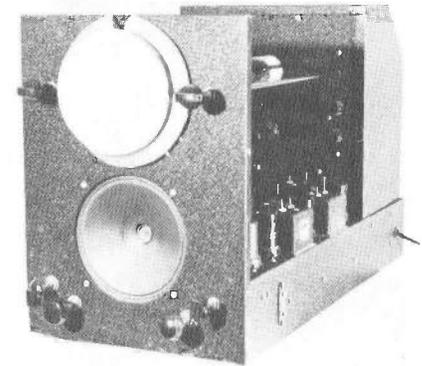


Figure 1. Meissner #10-1153 assembled Television Kit, circa 1939.

complications" if video control was added. The set construction was simple, even the alignment instructions did not require a sweep generator. The #10-1153 was sold complete with "the handsome wood cabinet of modern design built especially for" your set, or you could build your own cabinet.

The typical early, non-flyback, high voltage step-up transformer supplied the deadly CRT voltage, but there was a shorting contact added to the HV capacitor; removing the safety cage would instantly short-out the supply.

The completed unit does give a decent image, although we have not finished the "easy" alignment yet. The kit is housed in a folded metal chassis with black crinkle finish, and is about 12" wide by 14" high, and nearly 22" deep. Electronically, it seems to be similar to other early sets: narrow bandwidth and trigger pulses pulled from the video signal — if you lose the signal, the raster collapses.

The four front controls are not labeled but are the usual: contrast, sound, station selector and fine tuning. Next to the CRT are two long

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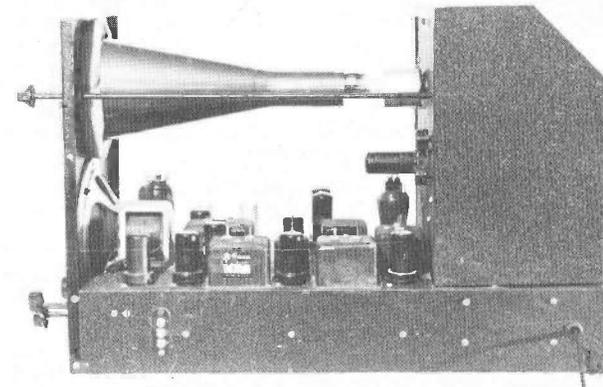


Figure 2. Side view of Meissner #10-1153 showing funnel shape of 1802 CRT.

The kit was sold with 17 tubes including the five-inch kinescope, 1802-P4, later renumbered 5AP4. AVC was added to the sound circuitry, but not to the picture "because of

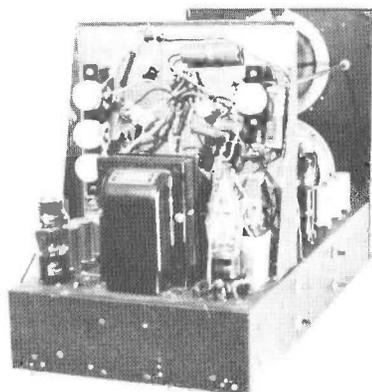


Figure 3. Meissner 10-1153 rear view with safety shield removed.

shafts which reach the focus and brightness potentiometers on the rear face. The positioning potentiometers are also on this plate. Sync. and size controls are on the left side. The 1852 and 1853 tubes can be replaced with more modern 6AC7 and 6AB7 tubes, respectively. A 2X2A will replace the 879 high voltage tube. Any hobbyist who is restoring a Meissner kit TV can contact me for wiring and component information. (Harry Poster, P.O. Box 1883, So. Hackensack, NJ 07606)

### Vintage Radio & Phonograph Society Convention '86' Auction Results

(Better late than never!)

Arvin TV, 7", (f).....	125
Freed Eisemann 40 (g).....	40
Grebe MU-1, no tubes (g).....	170
Howe Crystal Set (g).....	85
National FB-7 (g).....	90
RCA Radiola 25, no tubes (e).....	80
RCA Radiola III-A Special (e).....	320
Scott 23-tube (g).....	400
World Crystal Set (g).....	140
Zenith Super 8, (g), no tubes (g).....	135
Amplion Horn, large, wood (e).....	275
Kellog horn (f).....	30
Magnavox R3 Horn (g).....	55
Music Master horn (g).....	100
RCA UZ-1325 horn (g).....	50
Rhamstine horn (e).....	220
W.E. 10D horn (g).....	85
01A's, brass base & tip, two (g).....	36
199 tubes, four (g).....	45
201A's, brass base, three (g).....	95
CX-12 tube (g).....	26
WD-11, brass base & tip (g).....	70
Wunderlich Tube (g).....	34
Lincoln Loop Antenna (g).....	50

(The VRPS Reproducer, Dec./Jan. 1987)

## Radio Days a movie review



by Chris Frederickson

Woody Allen transports the movie goer to the nostalgia of "The Shadow," the console radio, and the party line telephone in his "Radio Days." The late 30's and early 40's come to life through a hilarious household of ten in Rockaway, New York. Seth, the boy of the house, listens to the radio all the time. When his rabbi asks him something, he mesmerizes "I am your true and faithful Indian companion." See the film for more good laughs. The outside world transforms Seth's life as a cab driver's son through the household's radios — typical radios of that period ranging from the plastic kitchen radio to the living room console radio.

Through the radio we again witness the panic from H.G. Wells' broadcast of "War of the Worlds," the sobriety of the Pearl Harbor announcement, the gaiety of celebrities on New Year's Eve, and the shared tragedy of an eight-year-old girl who fell into a well in Strasburg, Pa. The radio media was on the scene in Strasburg with a mobile remote radio station link mounted on a truck. Radio was bringing events to the public immediately; newspapers did not give the public the same intimacy and involvement in the news.

In addition to the consumer side of early radio, Sally the cigarette girl (played by Mia Farrow) who becomes "Miss Radio Personality" shows us the show biz side. Her first radio drama part gets trumped by Pearl Harbor, but after speech lessons to overcome her Brooklynese accent she gets to try out for a laxative commercial. A New Year's Eve date with the "Masked Avenger" at the club where she started out selling cigarettes epitomizes her rise in the world.

Another "Radio Days" laugh: Robbers in a house answer the phone, turn on the radio, and correctly "Guess That Tune." On their return the home owners notice a few things missing, but to their astonishment a truck appears with free appliances - the "Guess That Tune" prizes.

If you want a glimpse into the past at "Breakfast with Irene and Walter," "Dance Party," or "The Whiz Kids," "Radio Days" lets you do that while intruding the reality of the day into the nostalgia and hilarity.

Watch closely the credits at the end of the movie and you will see the Antique Wireless Association listed; the A.W.A. loaned many items for the filming of this movie, including broadcast receivers and studio equipment.

## WITH THE COLLECTORS

CONTRIBUTED BY THE LATE GLENN BAIRD, OTTUMWA, IOWA

### The Henry Field Seed & Nursery Co.

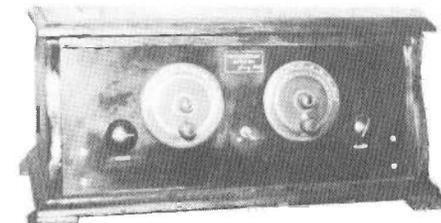
Back in 1892, a man by the name of Henry Field started a seed and nursery business in the small town of Shenandoah, Iowa. It was primarily a mail-order company selling seeds and nursery products. Then in 1925, he built and put on the air a radio station with call letters KFNF, with a power of 500 watts. He soon learned the selling power of radio, and started selling everything from grapefruit and baby chicks to work shoes and radios. Those were the days of battery sets, and Field sold two models: the "Shenandoah Five" and the "Shenandoah Super Six." I now have these two sets in my collection after years of searching.

Station KFNF was a neat set-up. The plate supply came from a huge bank of six-volt storage batteries wired in series, sitting in a huge building quite a ways from the transmitter. Talk about pure DC, that was it. You could smell the fumes from those batteries a block away. They soon converted to a motor-generator.

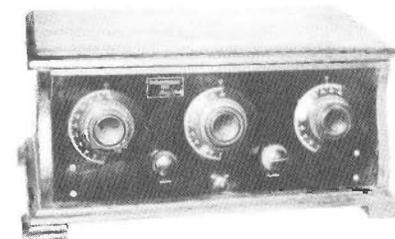
We lived seventy miles from Shenandoah in those years. Since all the programs in the 1920's were homespun, I once played in a small orchestra that aired a few times. I was a teenager in those years, and it was real thrill to play "over the air," as Henry called it.

I recall the night KFNF came on the air. I tuned in the station that first night they hit the air on a one-tube set I built in 1923 when I was in the tenth grade — many moons ago. I am now retired after being in the radio and television business for about fifty years.

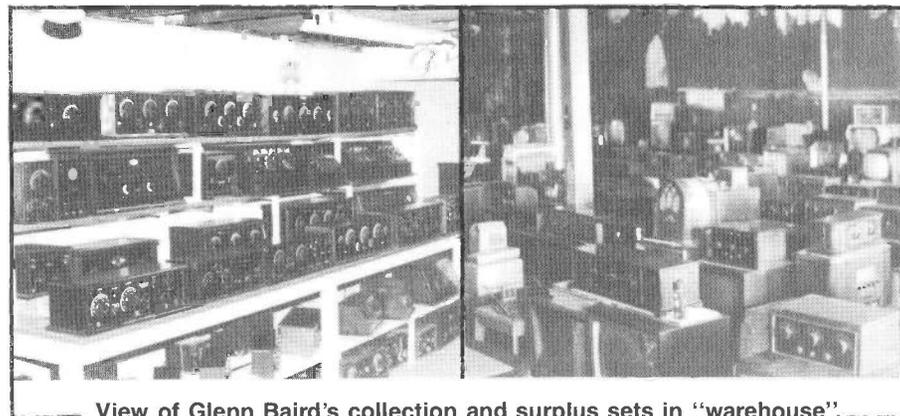
*Editor's note: Glenn Baird passed away on October 12, 1986. Elsewhere in this issue is a report on the auction of his large radio collection. I think that you will enjoy this article which he contributed to A.R.C. before he died.*



SHENANDOAH SUPER-SIX



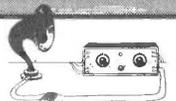
SHENANDOAH FIVE



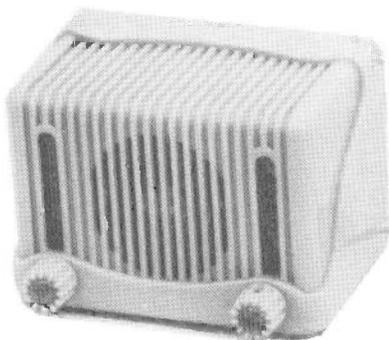
View of Glenn Baird's collection and surplus sets in "warehouse".



## PHOTO REVIEW



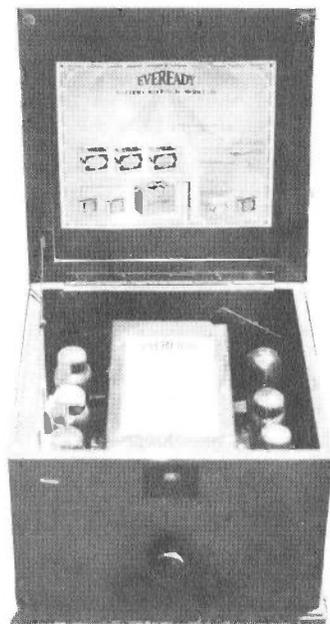
The "Photo Review" column is intended to present in pictorial form many of the radios, speakers, tubes, advertising, and other radio related items in the collections of other collectors. These photos are meant to help increase awareness of what's available in the radio collecting hobby. Photos are solicited from other collectors for use in future issues of A.R.C. Items desired are the more unusual radios and other items related to the hobby (covering the years 1900 to 1940's). Photos must be B&W (any size) and be sharp in detail, preferably with a light colored background. Please include a short description of each item submitted.



**GNOMO** - Made in Italy 1950-55 - two tubes, tunes with two ferrite slugs and operates from 110, 200 or 240 V.A.C. Even has mini dial lights on both sides. (Robert Lozier, Monroe, NC)



**CROSLY TEMPERATOR** - It appears the Crosley Co. used some speaker parts in the construction of this electric heater. Heater wires between the grill and the fan are heated with electricity and when the fan is turned on, it blows hot air to needed areas. Paint used on the Temperator was gold wrinkle finish. (David McKenzie - Eustis, FL)

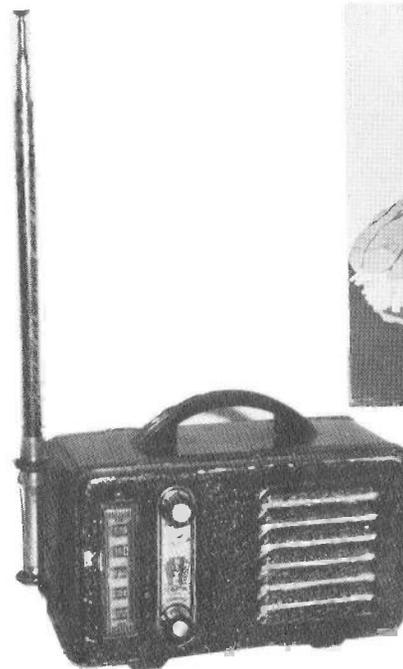


**EVEREADY** - This radio, Model 20, was manufactured by National Carbon Co., Inc. of New York City in 1928. It is a 6-tube battery set designed to use five type 40 high-mu tubes with a 112-A or 117-A in the last audio stage. It claims to be the first receiver to use these high-mu tubes which results in high amplification with low power consumption. Average B battery lifetime was claimed to be one year or more. (Greg Farmer - Fridley, MN)

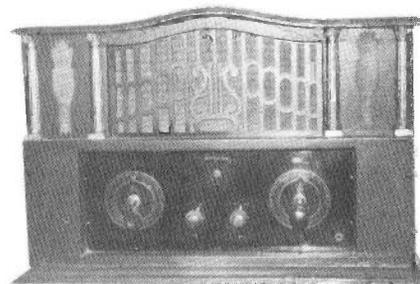
## PHOTO REVIEW



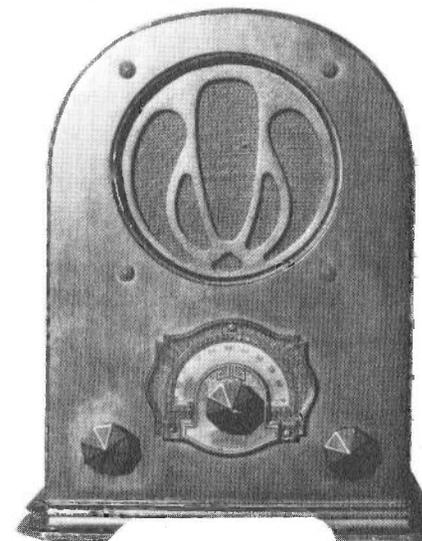
**SPARTON** - A 1929 store display featuring a woman listening to a radio, in this case a Sparton Model 931 (1929). Cardboard sign done in colorful colors red, yellow, blue, and black. (Karl Rommel - Lansing, MI)



**AUTOMATIC RADIO CO.** - "Tom Thumb" bike radio by Automatic Radio Co. of Brookline, Mass. Case is a maroon crackle finish. The Automatic Radio Co. in later years was well known for their line of auto radios as well as farm tractor radios. (Walter Worth - Wollaston, MA)



**UNKNOWN SET** - The only name on the set is "SUPER-SIX". Uses many Acme parts, but not sure of manufacturer. The cabinet is leatherette covered wood and has a built-in horn. The rear has two doors for access to tubes. Uses six 199 type tubes. (Walter Worth - Wollaston, MA)



**ADVANCE CO.** - Model "F", a 1932 TRF using 2-24, 1-35, 1-47, and 1-80 tubes. The Advance Company was originally Falck Radio, an early Los Angeles, California radio manufacturer. The model F is a very compact set measuring only 11" high, 8" wide, and 5" deep. It sold for \$39.50 and in spite of being so compact is quite well built. (Frank Heathcote - Logansport, IN)

# CLASSIFIED ADVERTISEMENTS

**FOR SALE:** Kennedy Coronet Mod 42 (see ARC May '86), missing tone control - \$125. Small 4-tube Jax cathedral - \$75. GM "little general" cathedral, needs refinish - \$100. "Time for Crosley" clock, exc. - \$125. Zenith Zenette-1 cathedral - call. GE Model K63 cathedral, missing escutcheon and knobs - \$140. Crosley 148 Art Deco tombstone - \$75. Majestic 20 tombstone - \$75. Clarion Jr. 7-tube cathedral - \$125. G.E. 60 tombstone, exc. - \$75. Shipping is extra. Alan Jespersen, 5721 39th Ave. So., Minneapolis, MN 55417. (612) 727-2489

**WANTED:** Good audio transformer UV716 used in early Radiolas. Jim Traynor, 3198 Boudinot, Cincinnati, OH 45211

**FOR SALE:** Zenith deluxe cabinet. Colonial? 1925-26. **WANTED:** Chassis or dial for Zenith 5-S-339 chairside. Clifford Berthelsen, PO Box 1096, Merced, CA 95341

**WANTED:** Battery compartment door for an RCA Regenoflex. Cabinet for a Zenith Model 33. Will buy junkers if necessary. Mark Vanyush, 10 Cobb Rd., Milton, VT 05468. (802) 893-1685

**FOR SALE:** Zenith Trans-Oceanic, Model B600, very good condition, asking - \$45. Cathedral novelty radio from 60's, plastic - \$35. Portable crank wind up phonograph, good working condition - \$85. UPS extra. **WANTED:** Chassis for AK 82. Speaker for Stewart-Warner cathedral Model 40. Looking for interesting cathedrals from early thirties. Bruno Pinto, 141-60 84th Rd. #2K, Briarwood, NY 11435. (718) 847-4802

**WANTED:** Desperately need a Dionne Quintuplets radio, FOS p. 176. Also grandfather clock radios. Cliff Watts, 51 Glendale Rd., Brantford, Ontario, Canada N3T 1P5

**WANTED:** Operating manual for 1948 GE 160 portable. (Has 2-volt storage battery and built-in charger). Carl Reinke, 2724 N. 27th St., Sheboygan, WI 53083

**FOR SALE:** Large GE #10 tubes N.I.B. - \$4. Hytron 864 N.I.B. - \$5. #250 tubes, used but very good - \$12.50. UX 4-pin porcelain sockets - 50¢ ea. Postal M.O. only, please. Michael Payne, Rt. 5 Box 796, Alvin, TX 77571

**WANTED: Automobile shortwave converter in 6-volt or 12-volt, new or used. Curtis Foester, Rt. 1 Box 166, Port Lavaca, TX 77979. (512) 552-2877**

**WANTED:** Radiola I. Radiola VI. AK 10B. Also need case for Federal 59 and chassis for Radio Shop 3V. Have ans. mach. Ray Schober, 6938 Western Ave., Omaha, NE 68132. (402) 544-0366

**FOR SALE:** Many old radio magazines, 1922 - 1950. SASE. **WANTED:** Radio collections and Lionel train collections. Bill Rolf, 30131 Center Ridge, Westlake, OH 44145

## CLASSIFIED AD DEADLINES

May 10 for Jun. 1987 Issue  
Jun. 10 for Jul. 1987 Issue  
Jul. 10 for Aug. 1987 Issue

**WANTED:** 1920's battery radios of Indiana such as Elmco, Cardinola, Okay, Diamond-T, King Cole, Aladyne/Clarodyne, Amaco, Melody, Case, Tilman, Huntington and Lyradion. American crystal radio. AC sets such as Kennedy, Gloritone, Apex, Code, Victory and Jesse Trench. Michael Feldt, 1203S Somerset Way E, Carmel, IN 46032. (317) 844-0635

**FOR TRADE:** Howard 450A for your Philco 90/70 cathedral or Zenith console. A. Bruno, 24 Butternut Dr., New City, NY 10956

**WANTED:** Paying premium prices for Sparton Radio advertising items between 1935 - 1940. Ed Sage, 1781 Helene Ct., Benicia, CA 94510. (707) 746-5659

**FOR SALE:** 1936 Model 772 Weston analyzer - \$35. 1937 Superior Instruments Co. utility tester - \$25. Both with original manuals and "as new," exc. condition. James Millen Model 1-129-B/90601 frequency meter 1.5 to 40 MC with case, exc. - \$21. Ward Becht, 625 Tufts Ave., Burbank, CA 91504. (818) 842-3444

## CLASSIFIED ADVERTISEMENTS

**FOR SALE:** Attn. TV restorers: New, original, box, TV yokes, 22 Triad types, 2 Zenith types. Total of 33 - \$125 ppd. in USA. For radios I have 450v and 600v American-made capacitors, resistors, pots, tubes, interstage and output tmfrs., schematics, veneer, satin finish, and wire to restore radios of 1930-1950. No battery sets, no cathedrals for sale. Parts list available. Sue Coulter, Box 11-A, 1000 West Columbus, Bakersfield, CA 93301

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**WANTED:** Restorable chassis with dial for Atwater Kent cathedral 944 and Montgomery Ward 62-151 (32V). Also need dial covers for Zenith tombstone 5-S-29, AK tombstone 145, Philco tombstone 39-70 farm set and dial pointer for Zenith tombstone 5-F-134 or 7-D-127. Thanks! Wayne King, c/o AMS, Lawrenceburg, KY 40342. (502) 839-9261

**FOR SALE:** Sparton 67 tombstone U.T.[?] - \$60. Motorola 65T61, works, no knobs - \$25 + UPS. James M. Seal, 3309 Boatman's Mt. Rd., Morristown, TN 37814. (615) 581-8269.

## CLASSIFIED ADVERTISEMENTS

**FOR SALE:** Atwater Kent Radio Instruction Book Vol. I, Dec. 1924 edition, full of information, 39 pages, copies - \$3.95. Richard Arnold, PO Box 275, Lone Grove, OK 73443

**WANTED/FOR TRADE:** AK det. amp, brown for model 12 breadboard. Have AK det. amp, green, for early model breadboards to trade. Don Herman, 1061 Blvd. Ave., Havre, MT 59501. (401) 265-7469

**FOR SALE:** Unused and used tubes, capacitors, speakers, etc. Send SASE for lists. C. Elmer Nelson, 11 S. Church St., Princeton, IL 61350

**WANTED:** Those early tubes for possible classroom demonstrations for students. Paying prompt \$ for pre-1920's early or unusual types. Please describe with price(s). Marc Gottlieb, Box 1112, South San Francisco, CA 94083

**FOR SALE:** RCA W110A tube tester with over 400 cards punched, blank cards, master card and punch with owner's manual in good working order - \$60 ppd. Sams CB Manuals Vols. 1 to 80 - \$4 ea. ppd. SASE for parts list. England's, 98 Montague, Zanesville, OH 43701

**WANTED:** Cabinet, lid or identification plate for AK 20/24 Deluxe. Paul Gunzenhauser, Rt. 1, Box 133, Garden Grove, IA 50103

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  - PCB701 - ALIGNING PHILCO RECEIVERS by J.F. Rider, 1937, 135 pages . . . . . \$13.95
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**WANTED:** RCA Victor cathedrals. Any condition, working or non-working. Call after 6:00. Vincent Turula, 1-04 Pheasant Hollow Dr., Plainsboro, NJ 08536. (609) 275-8203

**WANTED:** Working or restored chassis for Brunswick Model 18 radio. Gilbert Smith, 248 South 36th St. San Diego, CA 92113

**FOR SALE:** Brunswick radio dial cover, circa 1930 - \$30. **WANTED:** Dial glass for Philco 41-295. Victrola parts and junk machines. Spark ignition model airplane engines. Dynaco tube amps. Allan Hibsich, 4 LaForet Ct., Oroville, CA 95966. (916) 589-0138

**WANTED:** TV's! I bought 30 last month; sell me yours. Highest prices paid. Jim Clark, 1006 Pendleton Dr., Lansing, MI 48917. (517) 323-9595

**WANTED:** To buy: old radio premiums. Robert Albin, Box 182, Hebron, IN 46341. (219) 696-7187

**FOR SALE:** 2 new C.D. 6VL10 6-volt vibrators - \$18 ppd. 8 NA-ALD Type 299 breadboard sockets - \$30 ppd. Pat Stewart, W7GVC, 1404 Ruth, Walla Walla, WA 99362

**WANTED:** S meter for Hammarlund HQ129X receiver. Charles J. Stinger, 404 Ross Ave., Hamilton, OH 45013. (513) 867-0079

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**WANTED:** Pre-1950 TV's. Related literature, magazines, service manuals, etc. State condition, price. Don Hauff, 9988 107th Ave. N, Maple Grove, MN 55369. (612) 425-0089

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**FOR SALE:** Orchestrion speaker. Leg key mounted. Make offer. F.A. Nichols. 720 E. Eldorado St., Appleton, WI 54911

**WANTED:** RCA parts as follows: PP536 potentiometer. Three UR542 tube sockets. Three PR 535 rheostats. One wavelength switch and knob for AA 1520. C.G. Blakely III, 130 Woodlawn, Topeka, KS 66606

**WANTED:** Radio chassis and manual for Crosley grandfather clock, simple crystal sets. Manuals for Bt. Counterphase 6, Majestic #7, Radiola #17-AR-927, Synchronyne Deluxe, Philco 511, Eico 460 scope. Also 1951 paperback "How To Become A Radio Amateur." Bob Williams, 28 Cooper Ave., Council Bluffs, IA 51501. (712) 322-2220

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**WANTED:** Pre-1930 W.E. aircraft radios, accessories, tube testers, HS-1 headset, wind gen. James Treherne, 11909 Chapel Rd., Clifton VA 22024. (703) 830-6272

**FOR SALE:** Radio cabinet finishing supplies: Toning Lacquer in 13 oz. spray cans, Van Dyke Brown (for dark finish), Med. Walnut, or Cherry Brown - \$5/can. Natural Wood Filler for a smooth surface - \$3.95/half-pint can. Add for shipping. Vintage TV & Radio, 1204 Andrews Ave., Lakewood, OH 44107

**WANTED:** Schematic for Trav-Ler portable receiver as shown on page 136 of Vintage Radio. David T. McKenzie, 516 South Exeter St., Eustis, FL 32726. (904) 589-0149

**WANTED:** Chassis "Super Zenith VII/VIII." Article 1924/25 "Improved Model 'B' Superhetrodyne," by James/Jimmie Barry. Dale Davenport, 4001 Rogers Ave., Suite 13, Fort Smith, AR 72903. (501) 782-9125

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**WANTED:** Large high voltage variable capacitors. TCBA, RD 3, Box 181, Glens Falls, NY 12801

**FOR SALE:** Edison Concert - \$4,200. Northern Electric/Victor 3 peanut tube receiver, R-24 - \$350. Marconi IX - \$450. A. Nolf, 539 Kastelic Pl., Burlington, Ontario, Canada L7N 3R5. (416) 639-4768

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**WANTED:** Western Electric 7-A amplifier with 216A tubes. Aeriola Jr. and Aeriola Grand. Scott Shanks, Rt. 3, Box 603, Sherwood, OR 97140. (503) 628-2909

**FOR SALE:** Zenith Model 5808 console with wave magnet rotatable loop antenna. Wards Airline movie dial console Model 62-267. Schematics for both and both work. Make offer. Call collect. Arthur Robertson, (303) 979-3225

**WANTED:** Hallicrafters S-35 panoramic receiver. Finders fee. Sam Thompson, 1031 San Antonio Ave., Alameda, CA 94501. (415) 521-1429

**WANTED:** Model 165-185 chassis for Atwater Kent roundtop. Jim Stratton, N6902 Post, Spokane, WA 99208. (509) 328-8471

**FOR TRADE:** Grebe CR8 cabinet. **WANTED:** Grebe RORR cabinet. Barry A. Janov, 2434 Dempster, Suite 112, Des Plaines, IL 60016. (312) 299-1400

**WANTED:** Paragon tuning dial, 4", for RD5 and small vernier knob assembly. Have WD11 to trade, or cash. Hardin McCauley (219) 365-5979

**WANTED:** Aeriola Junior/Senior. WWI vintage tubes and xtal sets. Brian Roberts, 3068 N. Evergreen, Pittsburgh, PA 15237

**FOR SALE:** 80 only, 7N7 tubes, all in original cartons, never used. Make a reasonable offer. Ed Martin, 8816 Ansonia Ave., Cleveland, OH 44144. (216) 661-9999

**WANTED:** 3 tube shields for Atwater Kent Model 447 (318 has same chassis). Must be bronze colored, solid type with no seams, 3 7/16" tall, 1 5/8" bottom inner diameter, 1 1/4" top inner diameter (approx.). **FOR SALE:** 4500 low priced, new/used, 1927 on radio/TV tubes. Send SASE with column list of needs. No lists avail for mailing. Purists add tube manufacturer. Chief Ollie Carpenter (OARS), Old/Antique/Radio/Shoppe, 7729 Doris Dr., Norfolk, VA 23505. (804) 489-7297

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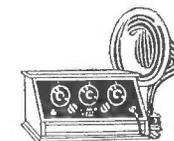
**WANTED/TRADE:** English tube type 4VB. Will trade brass base tipped tube or pay cash. **WANTED:** Color wheel adapter. J.R. Wilkins, Box 3442, Arlington, TX 76010. (214) 298-5587

**FOR SALE/TRADE:** Books, Radio Boys, 10 vol. - \$7/ea. Misc. Motor Boat Boys, one - \$5. Under the Ocean, one - \$5. Tom Swift, two - \$5 ea. Radio Age, two, 1916-17 - \$10 ea. QST, 65 issues, 1930-34 - \$60 for all. Radios: Silvertone, circa 1922-23 - \$60 W-T. Victoreen, needs rewiring - \$50. Orbarphone N-T - \$75. And more. Trade for auto books, magazines such as Motor Age, Motor World, Automobile Trade Journal, 1912-20, and manuals. Ed Schmidt, 1865 Newark Dr., West Bend, WI 53095. (414) 334-7108

**WANTED:** Coil sets for HRO, FB-7, and Comet Pro. Also National & GR devices, accessories & literature, including "The Experimenter." John A. Field, 117 Arroyo Pl., Santa Cruz, CA 95060

**FOR TRADE:** 1884 Edison bamboo filament light bulbs, AK Model 10 breadboard, & other desirable bulbs and radios - for bulbs needed in my collection. John T. Davis, 1003 16th Pl., Kelso, WA 98626

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6. Emerson Radio-Phono ..... 35
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**WANTED:** Microphones used in early broadcasting: Western Electric, RCA, J-A, Remler. James Steele, 160 West 77th, New York, NY 10024

**FOR SALE:** Atwater-Kent Breadboard components: No. 3902 detector unit - \$75. No. 3676 detector and 1 stage - \$95. No. 3634 2 stage amplifier - \$90. No. 3812 detector and 2 stage - \$125. No. 4051 Type 11 tuner - \$150. No. 3714 variometer - \$150. No. 3731 variocoupler - \$175. All units like new cond., some still in original boxes, limited quantity. Phil Weingarten, 67-61 Alderton St., Forest Hills, NY 11374

**WANTED:** Marvin West's juvenile fiction book, "The Motor Rangers Wireless Station." Robert Stapleford, 1800 Randolph, Topeka, KS 66604

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**FOR SALE/TRADE:** Patterson PR-15 communications receiver and six Radio Broadcaster magazines 1927-30. SASE. Floyd A. Paul, 1545 Raymond Ave., Glendale, CA 91201. (818) 242-8961

**WANTED:** Light bulbs, pre-1900's, odd shapes, wood bases, carbon filaments. Rob M. Simon, 1 So. 130 Radford Ln., Villa Park, IL 60181

**FOR SALE:** Western Coil & Elec. Co. Type WC-17, 5-tube radio - \$60. Hickok Model 510-X dynamic tube/multi tester - \$25. GE Tungar battery charger, small home type - \$10. R.D. Chenez, 36 Ridgewood Ln., Apt. 1, Gardner, MA 01440

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**WANTED:** Closeup photo (positive identification) of 1937 RCA 7K1 (FOS, p. 153). Dave, Box 81, Olney IL 62450. (618) 392-6601

**WANTED:** Crystal sets and cathedral radios. Chris Huntley, 11721 Eureka Rd., Edinboro, PA 16412. (814) 734-1671

**FOR SALE:** National Schools, Los Angeles, Calif. Course, Lessons 1 thru 56, Practical Training in Radio-Television and Allied Electronics, 11"x8" in maroon cover. Hundreds of illustrations, 3" thick (all radio-no tv). Excellent condition. Date? Value? Gene Reynolds, 53 Marple Road, Haverford, PA 19041

**WANTED:** CW filter for Collins 75A4, either 500 or 800 Hz. A. Brittingham, W4MPT, 9450 S. Tropical Trail, Merritt Island, FL 82952

**WANTED:** Model-T Ford spark coils. Need original wooden case versions. Call collect. Arthur Robertson, (303) 979-3225

**FOR SALE:** 114 general coverage crystals for KWM-2 or 2A in plastic pouch - \$50. J. Wasiewicz, 229 Sarles Ln., Pleasantville, NY 10570

**WANTED:** Zenith console parts. 9-S-367, pushbutton ID tabs and "second hand" 0-60 dial. 8-S-463 Dial bezel & glass & pushbutton assembly for stations. Will buy or trade. Rodney Holland, Rt. 9, Box 100, Mena, AR 71953

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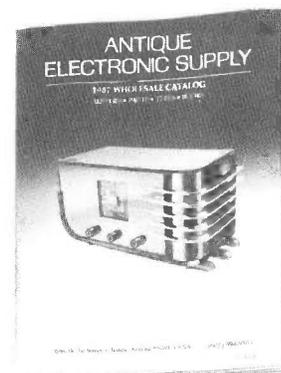
**WANTED:** Superhet-type short-wave converter, like National NC-5 or Silver-Marshall 739. Tracy Sands, 1520 W. Juno Ave. #C, Anaheim, CA 92802

**FOR SALE:** Phonographs and jukeboxes. 1100 New tubes in boxes. 10,000 78's and 45's. Send SASE. Tony's Trading Post, 209 East Park St., Butte, MT 59701

**WANTED:** Philco 70 speaker and knobs. Philco 91 cabinet, speaker, knobs and tuning dial. Driver for AK Model H horn. Preset station pushbutton for Zenith Globedial. Speaker for American Bosch Model 28. Kurt Nauck, 1726 W. Alabama, Houston, TX 77098. (713) 522-5399

**FOR SALE:** E.H. Scott Philharmonic, complete, no cabinet. Charles Harper, Suite 198, 2050 Idle Hour Center, Lexington, KY 40502

**WANTED:** Loop antenna and crystal detector assembly for a DeForest D-7A. Reproduction assemblies OK. Elmer J. Lange, 1261 County Line Road, Darien Ctr., NY 14040. (716) 937-6416 eves.



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**FOR SALE:** Home-brew Acmeflex Radio Kit-Set, 5-tube deluxe, has two plastic sealed dustproofed Acme condensers, glass under lid, 7" long box left end for coils. This one has inst. V.F. fine - \$100 + \$15 UPS. Acme 36" 4-tube one sealed condenser, same as above, not signed, no inst., fine - \$75 + \$10 UPS. Magnavox horn M-1A, fine, nice decal - \$90 + \$5 UPS. Lumitone table lamp radio, rocket shape bakelite original cream painted with original shade 30", works, fine - \$150 + \$8 UPS. **WANTED:** Very old, unusual looking, typewriter, Edison or another. Name or no name on typewriter. Edison Mabry, 715 W. Longview, Mansfield, OH 44906. (419) 526-1175

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**CLASSIFIED AD DEADLINES**

May 10 for Jun. 1987 Issue

Jun. 10 for Jul. 1987 Issue

Jul. 10 for Aug. 1987 Issue

**WANTED:** Manual for EICO Model 147A Signal Tracer. Also need knobs for Philco Model 37-61 cathedral. Bouldin Frantz, 7764 Old Mill Forest SW, Roanoke, VA 24018

**FOR SALE:** Have 1926/27 National Radio Institute Home Study Courses: The Super Heterodyne Receiver, Development, Design & Operation; Super Heterodyne Troubles & Their Remedies; and General Trouble Shooting in Radio Receivers. Will make copies - \$3.95. Richard Arnold, PO Box 275, Lone Grove, OK 73443

**WANTED:** Parts for DeForest Interpanel. Also one Marle audio transformer, open OK. Rudy Burick, #6 Whetstone Dr., Apt. 5, Gaithersburg, MD 20877. (301) 977-6745

**FOR SALE:** Rider's Vols 4-5-6 combined, unabridged in original binding - \$60 + 22 lb. postage. Beitman's Most Often Needed Radio Diagrams, 1939 & 1941 - \$5 ea. or trade for 1942 & 1946. RCA Victor Service Data Vol. V - \$10. **WANTED:** Rider's 11, 12 & 13. Beitman's Most Often Needed Radio Diagrams 1942 & 1946. RCA Victor Service Data Vols. 1, 2, 3 & 6. Paul Bourbin, 25 Greenview, San Francisco, CA 94131

**WANTED:** Receivers built in foreign countries, post 1920. Especially round EKKOs, Nazi radios, receivers from occupied countries. Send a good color photo and price. R. King, 3017 Orwell St., Lincoln, NE 68516

**FOR SALE:** National NC-121, VG, works - \$35. Military R100/URR (FOS p. 273), exc. - \$65. Hallicrafters: CRX-4 - \$30. S38D - \$25. S-27 - \$65. S-210, excellent - \$35. Craig Smith, 1935 First Ave. S, St. Petersburg, FL 33712. (813) 822-7592 days

**FOR SALE:** Several miniature cathedrals, Clinton, Clarion, Aetna tombstones. Best plastic selection ever. Emerson celluloid. SASE. Ed Ripley, 2276 Holloway, Maplewood, MN 55109

**WANTED:** "From Tin Foil to Stereo" 78 one-sided records: Victor, Monarch, Zonophone, Berliner, Eldridge Johnson, Climax, Consolidated. Jim McGrath, W210J, 2 Centerview Ln., West Seneca, NY 14224

**CLASSIFIED ADVERTISEMENTS**

**WANTED:** Hallicrafters SX-88. Walt Joyce, 2118 East Q-5 Ave., Palmdale, CA 93550

**FOR SALE:** Philco 71 cathedral, refinished - \$85. Philco 650 tombstone, refinished - \$75. AK E speaker - \$25. AK phono pick-up (open) - \$20. Browning-Drake - \$65. Philco 116-B tombstone, huge - \$125. 1948 Zenith Credenza, both FM bands, AM, SW, phono, pick-up only - \$75. Large iron dog doorstop, marked "WORLD RADIO" - \$75. Richard C. Foster, 12 Shawmut Ave., Cochrutuate, MA 01778. (617) 655-2056

**WANTED:** Erla reflex transformers #1&2. Coils for 3T Harkness reflex or junker. Bill Jelinek, 128 N. Stevens, Rhinelander, WI 54501

**FOR SALE:** Do you need service manuals for Philco, AK, Majestic, Crosley? From 1930 to 1940. Most are 3 & 4 pages - 50¢ a page. Rider 1931 Trouble Shooters Manual. Electrical values of resistors & condensers in all receivers 1924 to 1932. Philco Parts Catalog 1932, 15 pages, photo copy. Many manual and service bulletins. Write for your needs. SASE, make & model no. to: St. Peter's Old Radio, R-3, Denmark, WI 54208

**WANTED:** AK-10, 10A, 50, 246, 708, 93 shortwave adapter. Cabinet for Philco 16 cathedral. AK breadboard parts. AK-R horn base. AK-82 chassis, junker OK. **FOR TRADE:** AK-10C, Victor 9-15, Kiel table/AK-60. Bob Nicholson, 3423 Long, Topeka, KS 66605. (913) 266-9473

**FOR SALE:** Citizen's Radio Call Books 1924-30. Radio News. Radio catalogs. Other magazines and miscellaneous radio reading matter. Send SASE for list. D. Pugh, 2126 E. Myrtle, Phoenix, AZ 85020

**SEND ALL A.R.C. MAIL TO**  
Antique Radio Classified  
P.O. Box 2, Carlisle, MA 01741

**WANTED:** Crosley Model 1216, 1316 or 1516 console. Call collect. T. Peterson (612) 755-6383

**FOR SALE:** Radio Craft, 91 issues, Nov38-Nov46 - \$120. Radio News, 70 issues, Jun39-Dec45 - \$85. Electrical Merchandising, 15 issues, Sep45-Nov46 - \$24. Radio-TV-Service, 12 issues, Nov45-Oct46 - \$15. Sylvania News, 17 issues, 1937 - \$10. Radio Service Dealer, 37 issues, Aug43-Oct46 - \$60. Radio Maintenance, 5 issues, 1946 - \$5. Radio & Television Journal, 4 issues, 1946 - \$5. Radio & Television Today, 4 issues, 1941 - \$8. All magazines in VG condition. Shipping is extra. Doug Heimstead, 1349 Hillcrest Dr., Fridley, MN 55432. (612) 571-1387

**CLASSIFIED ADVERTISEMENTS**

**FOR SALE:** New radio tubes. Send SASE. George Merryman, 4103 Pratt Dr., New Iberia, LA 70560

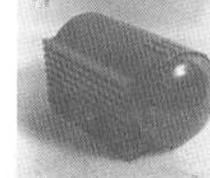
**WANTED:** Premiums paid for pre-1939 National equipment & old SW receivers like Patterson, RCA ACR-136 & 175, Breting 12 & 14, RME-9, Howard 430, Hallicrafters Silver Panel Super Sky-riders, and airplane dial Sky Buddy or Chief. Big premium paid for locating Harvey FT-30 transmitter, see FOS p. 257. Also, brass Wilmhurst static machine. What do you have relating to the French trans-Atlantic telegraph cable that landed in Duxbury in 1869 and on Cape Cod in 1879? Robert Enemark, Box 1607, Duxbury, MA 02331. (617) 943-5043

**WANTED: Scott Pre-War FM tuner. Curtis Foester, Rt. 1 Box 166, Port Lavaca, TX 77979. (512) 552-2877**

**FOR SALE:** Special sale on 200v caps: .15mfd or .22mfd - 15¢ ea; .47mfd - 50¢ ea; Sprague black beauties: .02mfd @ 400v - 35¢; .04mfd @ 600v - 35¢ ea; Sprague fresh stock TVA electrolytic 8mfd @ 450v - \$1.50 ea. Add \$1.50 per order for shipping. SASE for list of Sprague orange drops and electrolytics. Vintage TV & Radio, 1204 Andrews Ave., Lakewood, OH 44107

**WANTED:** DeForest's Training Home Laboratory Lessons on: (a) Shortwave Radio Receiver (3-Tube), (b) Radio Code Transmitter, (c) Radio Telephone, (d) Radio Code Audio Oscillator, and (e) Photo Electric Cell Control. Xerox copies will be greatly appreciated. Avery Baswell, 2603 Pentolope Dr., Huntsville, AL 35803. (205) 882-9513

**FOR SALE:** Radio Broadcast magazines, 50 copies, 1922-1926. Les Rayner, 5512 N. 71st Pl., Scottsdale, AZ 85253



**WANTED:** Silver-tone Radio as pictured above. Also parts/parts set. Will pay up to \$350 for set in top condition. Eric Brill, (203) 629-1756, 115 River Road, Cos Cob, CT 06807.

**WANTED:** E.H. Scott Sets: Any Worlds Record, Shield Grid 9, Symphony, 16/18, Masterpiece, Super XII, FM Tuner. All replies answered. Any leads appreciated. Kent King, 3637 Liberty Road, Delaware, OH 43015. (614) 363-3219.

**CLASSIFIED ADVERTISEMENTS**

**FOR SALE:** Galena crystals and cat whiskers - \$1 ea. Leonard W. Gardner, 458 Two Mile Creek, Tonawanda, NY 14150

**WANTED:** Type 1V6 subminiature tube for Crosley JM-8GN book radio. Set of white plastic tone and station indicators for Zenith 9S-367 console; please, it's a wedding present!  
**FOR SALE:** Riders Vol. 19 (XIX) - \$10. John O. Aiken, 3605 Overhulse Rd., NW, Olympia, WA 98502. (206) 866-8407

**FOR SALE:** Atwater-Kent model 30, good condition, less tubes - \$45. I pay UPS. Frank R. White, Box 2012, Olathe, KS 66061

**WANTED:** Crosley advertising clock, "Time for Crosley." 1948 Crosley, plastic radio Model 9-114W. Ronnie Kaczmar, 5747 Williamson, Dearborn, MI 48126

**FOR SALE/TRADE:** ICOM 2AT. Want SW Xtals for Drake R-4C. Joel H. Levy, 8 Waterloo Dr., Morris Plains, NJ 07950. (201) 289-0233

**WANTED:** McIntosh AE-2 preamp, 15W1 and 50W1 amplifiers. Marantz Model One preamp and Model Two amplifier. Jack Smith, 288 Winter St., N. Andover, MA 01845

**FOR SALE:** Parts from Kolster 6D, Capitol Songbird, Radiola 16, Hallicrafters S-38, Steinite 261, Ansonia 911 speaker. **WANTED:** Old radio station mics, parts and Tesla coil circuits. Stan Novak, 5200 Castile Way S, St. Petersburg, FL 33712

**CLASSIFIED ADVERTISEMENTS**

**FOR SALE:** Cathedrals: Philco 60 - \$55. Philco 84 - \$35. **WANTED:** Ghirardi's Radio Servicing. Richard Haneline, 3600 Cuba Blvd., Monroe, LA 71201. (318) 387-6764

**WANTED:** Stromberg-Carlson Treasure Chest radio, perfect working condition. R. Monterosso, 4156 Harriet Rd., Bethpage, NY. (516) 796-3804 evenings

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*Note: All subscribers who renewed early and had expiration dates after MAR87 (old 8704) will have their subscription increased by 1 month per year. Yes, some have already extended their subscription into 1989.*

**WANTED:** RCA 103. State condition. Henry Brown, 160 French St., New Brunswick, NJ 08903

**FOR SALE:** US Army Comm. receiver BC 224-D, works VG - \$40. Regina 15 1/2" steel record - \$20. Sony AV3600 Video B/W tape recorder with tapes - \$35. RCA T7-5 tombstone radio - \$25. Thompson Neutrodyne radio - \$25. Add UPS shipping. Clark Trissell, 3530 Pawnee, Lincoln, NE 68506

**CLASSIFIED ADVERTISEMENTS**

**FOR SALE:** New radio & TV tubes. No list. Send needs and SASE for price quote. Maurer TV, 29 S. 4th St., Lebanon, PA 17042. (717) 272-2481

**FOR SALE:** New radio & TV tubes. No list. Send needs and SASE for price quote. Maurer TV, 29 S. 4th St., Lebanon, PA 17042. (717) 272-2481

**WANTED:** Coca Cola radio as on p. 185 of "Flick of the Switch." H. Fredrickson, 218 Skeena Cr., Saskatoon, Saskatchewan, Canada S7K4G8

**FOR SALE:** National 1-10 Superregen receiver - \$75. Send SASE for photo. Dan De Grasse, 626 Central Ave., Massapequa, NY 11758. (516) 541-1686

**WANTED:** Kennedy cathedral radio, made in South Bend. State condition and price. Gene Branson, 1617 A East 4th, Santa Ana, CA 92701

**FOR TRADE:** Console model Hallicrafters dual diversity for Scott Philharmonic in Lauriate console or Scott special communications receiver. Norman Braithwaite. (916) 246-4209

**FOR SALE:** Console radios, all with legs. RCA RE-45 with phonograph - \$35. Majestic Model 91 - \$30. RCA Model ? with Radiola 60 chassis - \$45. Pick-up only. Gary B. Schneider, 9511 Sunrise Blvd., #J-23, North Royalton, OH 44133. (216) 582-3094

**CLASSIFIED ADVERTISEMENTS**

**FOR TRADE:** Box radio pens. AK coaster. Echo antenna tape. WWI Tiffany Marksman Medal. **WANTED:** WWI Wireless Medal. Otto W. Nill, 192 Grant Ave., Islip, NY 11751

**FOR SALE:** Air-King wooden slant-front radio Model 828, very good cond. - \$35 plus shipping. Tom Burnside, 4838 S. Westhaven Dr., Jackson, MS 39209. (601) 922-2235

**WANTED:** Tube cover for a Netrowound 1927 radio. Richard Bury, PO Box 25, Gurnee, IL 60031. (312) 623-7746

**FOR SALE:** Power and filament transformers. SASE for list. Daniel Gaidosz, 342 West River Rd., Orange, CT 06477

**WANTED:** Good power transformer for RCA Victor radio model RE-18. Gilbert Smith, 248 So. 36th St., San Diego, CA 92113

**FOR SALE:** Victoreen superhet with 8 01-A's, exc. cond., works - \$150. Duane Bylund, 5153 W. 5400 S., Salt Lake City, UT 84118. (801) 967-6987

**WANTED:** Tuning condensers and other parts for Apex Super 5. Jim Cenaway, 610 Ashford Rd., Wilmington, DE 19803. (302) 571-9062

**FOR SALE:** New flybacks, yokes 1940-1970. Unusual old tubes. **WANTED:** Arcturus, DeForest, unusual, colored glass tubes. R. Dobush, 3554 W. 105, Cleveland, OH 44111. (216) 228-4953

**WANTED**  
**WESTERN ELECTRIC**  
**TUBES, SPEAKERS, HORNS & AMPS**

**TUBES:** 300A, B, 274A, B, 262A, B, 275A, 350B, 284D, 252A, 271A, 242A, 348A, 349A, 301A, 339A, 205D, E, F, VT52, VT1, VT2, 211, 212, 104D, 216A.  
**SPEAKERS:** 555, 594, 596, 597, 713, 754, 755, 728, 4151, 4153, 4181, 4194, 753, 757.  
**HORNS:** 22, 24, 26, 25, 12, 6368, 15A, 13A.  
**AMPLIFIERS:** 86, 1086, 91, 22, 94, 95, 105, 106, 120, 121, 130, 131, 124, 129, 142, 143.

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*Your answers to any (or all) of the questions below and over will be appreciated.*

How did you hear about A.R.C.? \_\_\_\_\_  
Member of any clubs? \_\_\_\_\_ Which ones? \_\_\_\_\_  
How long have you been a collector? \_\_\_\_\_  
About how many sets do you have? \_\_\_\_\_ Speakers? \_\_\_\_\_  
What other antique radio publications do you receive? \_\_\_\_\_  
Could you write an article for A.R.C.? \_\_\_\_\_ On what subjects? \_\_\_\_\_  
Describe your specialities \_\_\_\_\_

**CLASSIFIED ADVERTISEMENTS**

**WANTED:** Early or unusual tubes and light bulbs. Also, tube cans and cartons. Bruce Harbeck, 13408 Westwood Ln., Omaha, NE 68144

**FOR SALE:** Philco Predicta, RCA 730TV2, Crosley, Radiola, test equipment, gadgets, much more. Send large SASE. John Kendall, PO Box 436, Fallston, MD 21047

**WANTED:** Addison Catalin, Crosley Widget or Elf, Sparton Peach Mirrored radio. Doug Heimstead, 1349 Hillcrest Dr., Fridley, MN 55432

**FOR SALE/WANTED:** Geiger counters/scintillators. Want most any kind of radiation test equipment or unusual stuff. Bought, sold, repaired. Bill Nash, 1531 Avohill Dr., Vista, CA 92084

**WANTED:** Old-type radio speakers with field coil, 8" to 12" in size, field ohms from 1,000 to 25,000. Also test socket adapters 8-pin octal, 7-pin, 9-pin miniature test sockets. James D. Mac Donald, RR #1, Glendale, Nova Scotia, Canada B0E 3L0. (902) 625-2161

**WANTED:** Good RCA UV712 audio. Pittsburg SP-2 & WC-14 junkers. **FOR SALE:** Good Murdock 56 phones - \$12. Murdock Special & authentic phones needing cords plus operating W.E. CW49003 & W.E. 525 phones - \$8/pr. All plus shipping. George Hausske, 1922 E. Indiana, Wheaton, IL 60187

**COLLECTING INTERESTS**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Radios, battery, '20's | <input type="checkbox"/> Radios, other            | <input type="checkbox"/> Cylinder phonos   |
| <input type="checkbox"/> Radios, pre-1920       | <input type="checkbox"/> Television, CRT          | <input type="checkbox"/> Disc phonos       |
| <input type="checkbox"/> Radios, batt. Superhet | <input type="checkbox"/> TV, spinning disk        | <input type="checkbox"/> Electric phonos   |
| <input type="checkbox"/> Radios, crystal sets   | <input type="checkbox"/> TV, projection           | <input type="checkbox"/> Broadcast equip.  |
| <input type="checkbox"/> Radios, cathedral AC   | <input type="checkbox"/> Speakers, horn type      | <input type="checkbox"/> Test equipment    |
| <input type="checkbox"/> Radios, table AC       | <input type="checkbox"/> Speakers, cone type      | <input type="checkbox"/> Meters, panel     |
| <input type="checkbox"/> Radios, console AC     | <input type="checkbox"/> Speakers, misc type      | <input type="checkbox"/> Hi-Fi equipment   |
| <input type="checkbox"/> Radios, bakelite       | <input type="checkbox"/> Vacuum tubes             | <input type="checkbox"/> Telephones (old)  |
| <input type="checkbox"/> Radios, celluloid      | <input type="checkbox"/> Transmitters, tube       | <input type="checkbox"/> Telegraph items   |
| <input type="checkbox"/> Radios, plastic        | <input type="checkbox"/> Transmitters, spark      | <input type="checkbox"/> Microphones       |
| <input type="checkbox"/> Radios, amateur        | <input type="checkbox"/> Components               | <input type="checkbox"/> Jukeboxes         |
| <input type="checkbox"/> Radios, classic        | <input type="checkbox"/> Magazines, radio         | <input type="checkbox"/> Light bulbs       |
| <input type="checkbox"/> Radios, transistor     | <input type="checkbox"/> Books, radio             | <input type="checkbox"/> Electric gadgets  |
| <input type="checkbox"/> Radios, automobile     | <input type="checkbox"/> Catalogs, radio          | <input type="checkbox"/> Medical equipment |
| <input type="checkbox"/> Radios, shortwave      | <input type="checkbox"/> Literature, misc.        | <input type="checkbox"/> Other: _____      |
| <input type="checkbox"/> Radios, novelty        | <input type="checkbox"/> Advertising items        |  |
| <input type="checkbox"/> Radios, character type | <input type="checkbox"/> Novelties, radio related |  |

What do you like best about A.R.C.? \_\_\_\_\_  
 What do you like least about A.R.C.? \_\_\_\_\_  
 What type of articles would you like to see? \_\_\_\_\_  
 Comments: \_\_\_\_\_

**CLASSIFIED ADVERTISEMENTS**

**WANTED:** 1920 to 1939 radios, working or not. Send condition, model & price. Johnnie's TV, 476 Nordale Rd., North Pole, AK 99705. (907) 488-2169

**FOR SALE:** Marconi "Atalanta" World-Wide wireless receiver with all valves, all original, working cond., instruction manual, mint cond. - \$1,000. Marconi "Reliance" marine wireless transmitter with all valves, all original, instruction manual, mint cond. - \$2,000. RCA Radiomarine Model ET 8053 Lifeboat radiotelegraph receiver-transmitter, exc. cond. - \$250. Federal Telegraph Co., made for US Coast Guard, Lifeboat radio transmitter-receiver Type TPC-119, exc. cond. - \$300. Radiomarine Lifeboat radiotelegraph transmitter type ET 8026, exc. cond. - \$300. Signal Corps, US Army, portable radio receiver-transmitter, phone and CW Type BC-474-A, No. 435, made by RCA, exc. - \$350. Signal Corps BC227A radio receiver, made by Allen D. Cardwell Co., mint - \$300. Murdock 6-in. spark transmitter induction coil, made by Thordarson, condenser in base - \$500. Muirhead cable transmitter, England - \$600. Muirhead cable transmitter tuning fork, England - \$350. Phil Weingarten, 67-61 Alderton St., Flushing, NY 11374. (718) 896-3545

**WANTED:** Tower Adventurer speaker with sailboat and smaller Jodra sailboat speaker. **FOR SALE/TRADE:** 4-65 tubes NOS - for anything of value. Gordon Wilson, 11108-50 Ave., Edmonton, Alberta, Canada T6H 0H9

**CLASSIFIED ADVERTISEMENTS**

**FOR SALE:** Will have at Auburn, IN, meet: Scott 12 in Tasman cabinet; "Hot Spot 14" battery superhet; W.E. 7A amp; Radiola III; Grunow Model 501, chrome front; Emerson AX (FOS p. 83); Philco 70; Radiola UZ1325 horn. Scott Hagerman, 392 Ann St., Cary, IL 60013. (312) 639-7745

**WANTED:** Speaker, M-20 Jensen for SW 33. Michael J. Doback, 592 Southlawn, Birmingham, MI 48009

**FOR SALE:** Heathkit AR-2 SW rec., untest - \$12. National SW-54 SW rec., untest - \$15. Gonset Communicator IV, untest - \$30. Knight T60 trans., untest - \$25. Zenith Trans Oceanatic 5H40, works - \$30. Ohmite var. transf. VT-8, 6 amps, 0-140V - \$20. Superior var. transf., 7.5 amps - \$12. RCA WO57B scope, 3", works - \$30. Kleertone N.O.S. - \$4 ea. Crosley Radio Service Manual Vol. I, 1932-36 - \$15. Supreme 1926-28 - \$10. Hawkins Elect. Guides, set of 10 books - \$30. Type 401 Kellogg tubes, used - \$10 ea. UV201, 1 amp, w/tp, brass base - \$17 ea. 201-A brass base, w/tp - \$15. WE VT-1, new - \$15. WE VT-1, used - \$10. WE 215-A - \$10. WE 101-D, VT2 - \$18. WE 216-A, used - \$15. 201-A mixed brands - \$4.50 ea. Arcturus 83, 124, 80, P2, 27 tip, 27 - \$6 ea. Have Rider's, H-S parts, tubes, knobs, magazines, test equipment. Shipping extra on all items. List for SASE. F. Krantz, 100 Osage Ave., Somerdale, NJ 08083

**FOR SALE:** Phonographs & jukeboxes, tubes & other radio parts. 10,000 78's & 45's. Send SASE to Tony's Trading Post, 209 East Park St., Butte, MT 59701

**WANTED:** Crosley R.F.L. 75 with scenic front panel depicting "Pan." State price and condition. J.L. Acciavatti, PO Box 231, Southboro, MA 01772. (617) 476-3229

**FOR SALE:** Meters - radio, power auto. No lists, send wants. **WANTED:** Meter catalogs, repro's OK. Leonard Cartwright, 113 Sea Terrace Way, Aptos, CA 95003

**WANTED:** HRO-500. Low freq. preselector. Marley, 37162 Tovey Ave., Palmdale, CA 93551

**OLD TIME RADIO PROGRAMS** for fellow collectors of old radios who remember the old time radio programs. Available on Cassette. Enjoy Comedy, Classics, Adventure, Music. \$3.00 cash for catalog. George E. Brehm, 13402 Liebacher Ave., Norwalk CA 90650

**SCHEMATICS** for Radios, Power Supplies, Amplifiers, Plus. 1919 to 1945. Send SASE, \$1.00 per copy, brand name and model number. Gene Corn, 3 Barton St., Greenville, SC 29609

**CLASSIFIED ADVERTISEMENTS**

**FOR SALE:** Silver Marshall units, 50L6 tubes - \$4. DeForest DV2 duds, Aeriola xtal set, others, 2 Crosley Pups, large Midwest console, cathedrals, Zenith, AK 90, Echophone, Philco. Tubes 199, 10's, 80's, 01A's, National H.F.S. Taylor tubes, Radiola 3, AK 90, Zenith cathedral, Columbia, Crosley 50, telegraph sounder with resonator - \$70. **WANTED:** Early amateur receivers, transmitter, Pilot Super Wamp. SW 2, 3 or 5. Joe Szabat, W3LST, 228 Plummer, Oil City PA 16301. (814) 677-4042

**WANTED:** 1931 Zenith Zenette cathedral Model L cabinet. Dorris Hall, 1500 Turner St., Old Hickory, TN 37138. (615) 847-5741

**FOR SALE:** Signal Corps/US Army crystal receiver (BC-14A), made by Liberty Electric Corp., Port Chester, NY, July 16, 1918, 70% original paint, buzzer cover and strap missing - best offer over \$450. Peter Palm, 4900 Madison Rd., Madisonville, OH 45227. (513) 561-4411

**WANTED:** "Ace" radios and advertising made by Precision Equipment Co., Cincinnati, Ohio. Craig Ball, 10101 Oak Hollow Cir., Austin, TX 78758

**FOR SALE:** Tri-City W-6 - \$75. Crosley XJ - \$145. Crosley 51 - \$70. Arvin 540T (Red Metal) - \$30. Wall telephone novelty radio - \$60. Emerson red portable using 3 tubes and 3 transistors - \$45. Belmont Freshman Masterpiece AC/DC - \$50. Greg Farmer, 71 Rice Creek Way, Fridley, MN 55432. (612) 571-6062

**WANTED:** Can anybody help me? Still looking for RCA Model 125 and a Crosley Model 124 chassis, complete, original, working or not. Also, Crosley Model 11-119 U AC-DC with nice cabinet. Jeff Pomakis, 27 Fairview Ave. #6, Ipswich, MA 01938. (617) 356-2343

*Please Save this Want List!*

- FEDERAL**  
 8, 56, 60, 102, Amp. for Jr., 175 Cabinet  
 401 Pleiophone with petal-type horn
- FIRTH**  
 15-A, 16-A, 17-A, 18-A, 19-A, 20-A  
 37-A, 39-A, 230-A  
 Vocaphones B, AA and De Luxe
- ADAMS MORGAN**  
 RA-6, RB-2, TWO, THREE, FOUR

It may be a long time before I find some of the sets I am listing in these ads, so remember to call me when you are ready to part with yours. I am putting together a collection of early broadcast and wireless equipment and adding to it each month. I buy single sets or collections. Also: books, catalogs, manuals and other related documentation. Call and suprise me; make my day!

John V. Terrey, 498 Cross Street  
 Carlisle, MA 01741  
 Telephone: (617) 369-9770

**CLASSIFIED ADVERTISEMENTS**

**FOR SALE:** Michigan, MRC 12. 1931-37 RCA Service Notes. Eric Bilney, 911 Fargo Ave., Spirit Lake, IA 51360. (712) 336-2490

**WANTED:** Operating manual for 1939 Hallcrafters Model S20R "Sky Champion" 4-band receiver. Carl Reinke, 2724 N. 27th St., Sheboygan, WI 53083

**CLASSIFIED AD DEADLINES**

May 10 for Jun. 1987 Issue  
Jun. 10 for Jul. 1987 Issue  
Jul. 10 for Aug. 1987 Issue

**FOR SALE:** Zenith 2-M amp - \$250. Cutting & Washington 11A - \$275. Grebe RORQ - \$250. Michigan MRC-10 1 tube - \$130. Craig Huseboe, 2706 Nelson Rd., Marshalltown, IA 50158. (515) 753-9381

**FOR TRADE:** Rider 12 for 20, 22 or 23. Need AK 55C Double Volume Control. Edsel Erwin, 6384 N. 6th St., Fresno, CA 93710

**WANTED:** Hickok tube tester model 539C in good operating condition. Also, Rider's manuals 1 to 8. Al Dean, 295 Pierce St., Leominster, MA 01453

**FOR SALE:** Quality multi-band transistor radios, test equipment, old tubes, magazines. Large SASE for list. Zenith Transoceanic R-7000, 12 band, good condition - best offer. Bill Thompson, 1095 NW 147 St., Miami, FL 33168. (305) 685-1993

**WANTED:** Neurophone, Source of Innergy items. Information on what happened to this Tucson company. Henry Schwartzman, 133 W. Fourth St., Corning, NY 14830

**FOR SALE:** 15 battery radios and 5 speakers. Send SASE for list. **WANTED:** Glass or plastic cover for crystal in Philmore. Thorola Jr. base. Lid paper for Aeriola Jr. Case for Crosley X, XJ or Super XJ. Instructions for a Confidence Master tube tester by Apparatus Design Co. Bob Barnes, 511 N. Chestnut, Monroe City, MO 63456. (314) 735-2945

**WANTED:** National SW3, SW4, SW58 and SW34 receivers and accessories. Also buying usable parts for restoration of these radios. Premium prices paid for original coils. Dean Showalter, 36308 Panorama Dr., Yucaipa, CA. 92399. (714) 797-1782

**WANTED:** Hudson-Ross "Globe Trotter" Shortwave receiver (shown on page 12, Oct. '86 A.R.C.). Also want Atwater Kent "breadboard" Model 5 or Model 9C. No junkers, please. Malcomb Ringel, KN4KWD, 305 Buckhead Ave., Atlanta, GA 30305. (404) 231-0084, weekdays.

**CLASSIFIED ADVERTISEMENTS**

**WANTED: \$100 will be paid to someone for hauling a console radio from Huntsville, Alabama to Dallas or Gulf Coast area of Texas. Contact Curtis Foester, Rt. 1 Box 166, Port Lavaca, TX 77979. (512) 552-2877**

**FOR SALE:** W.E. 600A microphone - \$60. DeForest triple coil mount - \$25. F.W. Chapman, Apt. B 218, 1130 N. Lake Parker Ave., Lakeland, FL 33805

**WANTED:** M-1 Magnavox speaker base and driver, gold color. Jim Stoker, 14 Roberts St., Adams, NY 13605

**FOR SALE/TRADE:** Philco 90's, 70's, 37-665, Crosley Repwoods, Catalins, Zenith consoles, crome deco sets, foreign sets. **WANTED:** Pre-1960 German and foreign sets, Pilot radios, Midwest radios. Unusual cathedrals, Atchisow, Aztec, Steinite, Midwest and Fred Stein radios, tube hi-fi gear. Bill Moore, 1005 Fieldstone Ct., Huntsville, AL 35803. (205) 880-1207

**WANTED:** Cathedral, tombstone or table radios. Speakers/horns. Pre-1940 radio books, magazines. Kim Brickman, 1029 Lewelling Ct., Alameda, CA 94501. (415) 865-6917

**FOR SALE:** 1941 E.H. Scott FM tuner, chrome chassis and cabinet in very good condition - \$225. Bob See, 24 Barnhart Ave., N. Tarrytown, NY 10591. (914) 631-6222

**WANTED:** Philco cathedrals models 14, 17, 18, 19, 44, 81, and 118. Jim Collings, 12005 Victoria Pl., Oklahoma City, OK 73120

**FOR SALE:** Still have AM Broadcasters at new price of \$10 each ppd. Quantity prices available to anyone. Send a SASE (please don't seal them!!) for a list of Stan's Surplus Stuff. Stan Lopes, 1201-74 Monument Blvd., Concord, CA 94520

**WANTED:** 2-volt rechargeable storage battery used in some 1946-48 GE portable radios. Carl Reinke, 2724 N. 27th St., Sheboygan, WI 53083

**FOR SALE:** Get out of the rut. Build a mechanical TV. Send SASE to Peter Yanczer, 835 Bricken, St. Louis, MO 63122

**FOR SALE:** Sams Photo Fact Radio Service, 1 to 60 in 6 vol. Rider TV Vol. 1, Rider PA Vol. 1, Rider Record Changer and Recording. J.A. Ross, W6JPS, 5468 East Grant Ave., Fresno, CA 93727. (209) 255-7912

**WANTED:** Cabinet for Crosley 61. Chassis for AK 185A. Speaker for Philco 46-480. Stan Childress, Rt. 5, Box 290-C, Ellijay, GA 30540. (404) 273-3179

**CLASSIFIED ADVERTISEMENTS**

**WANTED:** Midwest radios, Crosley oracle clock, DeForest bakelite tube socket, decal or photo of decal on "Voice from the Sky" speaker. I am interested in any colorful horn speakers. Greg Farmer, 71 Rice Creek Way, Fridley, MN 55432. (612) 571-6062

**FOR SALE:** Base for a S.G. Brown horn speaker - \$20 ppd. Glen S. Lee, RR#2, Mt. Brydges, Ontario, Canada N0L 1W0

**WANTED:** Child's erector set, any condition or completeness OK. Bob Carlson, 815 3rd Ave., International Falls, MN 56649

**FOR SALE:** Transoceanic A600, exc not working - \$60. Hallicrafters S20R Sky Champion, nice shape, works well - \$75. **WANTED:** Philco Model 20 cabinet. Globe-shaped radio like the Colonial "New World," (FOS p. 165). Randy Greenbaum, 4511 So. Trail, Sarasota, FL 33581. (813) 924-1497

**FOR SALE:** Astatic D-104 - \$35, with desk stand - \$50. **WANTED:** Where to buy tube cartons? T. Wickstrom, 1664 E. Shore Dr., St. Paul, MN 55106

**WANTED: Automobile record player, new or used. Curtis Foester, Rt 1 Box 166, Port Lavaca, TX 77979. (512) 552-2877**

**SERVICES:** TV and computer picture tubes rebuilt-rescreened, magnetic deflection types only. 20 years experience doing tube work for major network TV stations and airlines. Call for information. John Schmidt, Precision TV Tube Co., Chicago, IL. (312) 847-8936

**WANTED:** Cathedral and tombstone radios in need of restoration. Rough condition is OK, but would prefer complete sets. Give me a call or drop a line to: Jeff Pomakis, 27 Fairview Ave. #6, Ipswich, MA 01938. (617) 356-2343

**FOR SALE:** Incredible collection of nearly 5,000 lb. of theatre equipment: cameras, projectors, sound recorders, tripods, amplifiers, exciters, transformers, speakers, cabinets, horns, relay racks, you name it. RCA MI9377 amps, 50 watt. Simplex I.P.C. amps 2-807's with Altec output transformers, more. Be the first on your block to own some! Call/write for more information. Ned Carlson, Triode Electronics, PO Box 148794, Chicago, IL 60614. (312) 871-7459 days/weekends

**WANTED:** Dial scale for Stromberg Carlson, Model 240. Art Corbus, 5704 11th Ave. NW, Seattle, WA 98107. (206) 783-6151

**FOR SALE:** Collins Model 4 military shipboard transmitter, 2 - 30 MHz, 250 watts, 72" x 22" x 17" - \$450. Bernie Hassab, 2725 Mall Dr., Sarasota, FL 33581. (813) 922-5484

**CLASSIFIED ADVERTISEMENTS**

**FOR SALE:** Tube specials. New 35A5, 35Z3, 3Q4, 19J6, 6AQ6, 6SD7 - 10 for \$8 ppd. New 1S4 - 25 for \$9.95 ppd. New bulk 12CA5 - 75 for \$9.95 ppd. New 12V 3-prong vibrators, tested - 5 for \$10 ppd. Mallory orange drops .047/400V - 10 for \$4.95 ppd. Mitsubishi .047/630V - 10 for \$3. ppd. New Mallory 1" 20/20/20 at 150V cans - 3 for \$3.50 ppd. 3", 4", 5", 6" and 4" x 6" new/reconed electrodynamic speakers - 8 ppd. Reconed electrodynamic and P.M. RCA 15" theatre speakers - inquire. Various TV flybacks FLY-4 to FLY-20Z - \$7 to \$15 ppd. These items plus shipping: Complete set Rider TV manuals. Rockola & Seeburg factory surplus new tube jukebox amps, mono & stereo, Dynaco 5CA-80 integrated amp. Also, Philco 37-360 console - \$45. Fisher FM-90-X, fair, works - \$15. Hammarlund HQ-145-X - \$75. **SERVICES:** We can supply new & reproduction manuals for nearly all Hewlett-Packard test equipment, and reprints of factory manuals for most E.H. Scott radios - please inquire. Also, speakers and radio repair, free pick-up/delivery in "Chicagoland." **WANTED:** H.H. Scott 211A, 210B, Dynaco AF-6, hi-fi TRF AM tuner, RCA BA-11, BA-13, Sams AA-Series Photofacts. Buying, selling, swapping tube broadcast audio gear. Send SASE for new flyer. See our new store open soon in NW Chicago - and see me in Auburn, IN, May 2. Stay tuned for new Triode-brand 8" to 15" electrodynamic speakers. Ned Carlson, Triode Electronics, PO Box 148794, Chicago, IL 60614. (312) 871-7459 afternoons/weekends

**WANTED:** Good TV-7 or TV-10 tube tester and BC-348 receiver. Gordon Symonds, 26 Ossington Ave., Ottawa, Ontario, Canada K1S 3B4

**FOR SALE:** Must Sell! Radiola 60 - \$25. AK 55 - \$5. Zenith Transoceanic - \$10. Back issues of QST, CQ, 73, 1950's-60's. SASE for list. Buyer pays shipping on all items. Ed Cambra, 3225 Pipers Glen Dr., Lafayette, IN 47905. (317) 474-5965.

**FOR TRADE:** Brown AK 12 (late), needs restoration, but complete with spare parts. What do you have? Michael Payne, Rt. 5 Box 796, Alvin, TX 77571

**WANTED:** Advertising Signs, Books, Manuals, Novelties, etc. pertaining to radios built in foreign countries. R. King, 3017 Orwell St., Lincoln, NE 68516

**WANTED:** Old Electrical Apparatus - Test Equipment, Open-Frame Motors/Generators, Spark Units, Switchboard Meters, Bulbs, Tubes, Table Radios, Medical Devices, Books, Knife Switches, Trains & Accessories, Specialty Devices, etc. H. Andreoni, 250-D So. Lyon Ave., Hermet, CA 92343



**ILLINOIS - May 31**  
**ANTIQUÉ RADIO CLUB OF ILLINOIS**  
**SWAP MEET**  
 Elgin - Holiday Inn (West Parking Lot)  
 345 River Road - 8:00 a.m. to Noon  
 Information: Jeff Aulik  
 803 N. Chicago Ave., Rockford, IL 61107  
 (815) 399-1902

**MARYLAND - May 23**  
**MID-ATLANTIC RADIO CLUB**  
 Laurel, Md. - Applied Physics Lab.,  
 Johns Hopkins Univ. Meeting - 7 p.m.  
 Information: Joe Koester, 249 Spring Gap  
 South, Laurel, MD 20707. (301) 725-4229

**CALIFORNIA - May 23**  
**CALIFORNIA HISTORICAL RADIO**  
**SOCIETY - SWAP MEET**  
 Los Altos Hills - Foothill College  
 Information: Paul Bourbin, (415) 648-8489  
 25 Greenview Ct., San Francisco, CA 94131

**NEW JERSEY - MAY 23**  
**LOCAL A.W.A. MEET**  
 Tranquility, NJ - "The Still"  
 Sussex Co. Rte. #517  
 1 1/2 mi. N of I-80, Exit 19  
 9 a.m. - Flea Market; 12:30 Noon - Dinner  
 Information, contact: John Richardt  
 94 Bald Eagle, Hackettstown, NJ 07840

**GEORGIA - May 1 - 2**  
**ANTIQUÉ WIRELESS ASSOCIATION**  
**SOUTH-EAST CONFERENCE**  
 Atlanta - Holiday Inn  
 I-285 & Chamblee-Dunwoody Rd.  
 Friday p.m. thru Saturday  
 Information: Larry Flegle, 8825 Roswell  
 Roads, Suite 475, Atlanta, GA 30338

**N.Y. (L.I.) - May 17**  
**GREATER NEW YORK**  
**VINTAGE WIRELESS ASSOCIATION**  
**MAY MEET**  
 Old Westbury - N.Y. Institute of Technology  
 25A Northern Blvd. - 8 a.m.  
 Held at the "LIMARC" Hamfest  
 \$3.00 buyers; \$5.00 sellers  
 Information: Bob Scheps (516) 467-1700  
 or Christopher Bacon (718) 651-7186

**NEW YORK - SEPT. 23 - 26**  
**ANTIQUÉ WIRELESS ASSOCIATION**  
**NATIONAL CONFERENCE**  
 Canandaigua - Sheraton Inn  
 Information: Lauren Peckham,  
 Ormiston Rd., Breesport, NY 14816

**MINNESOTA - May 2**  
**NORTHLAND ANTIQUÉ RADIO CLUB**  
**MEET - RADIO SHOW & TELL**  
 Information: Doug Heimstead (612) 571-1387

**MICHIGAN - May 17**  
**MICHIGAN ANTIQUÉ RADIO CLUB**  
**SPRING MEET**  
 Jackson - Cascades County Park  
 8 a.m. to noon  
 Swap Meet, Display, Contest, Auction  
 Information: Karl Rommel (517) 484-7865  
 or Everitt Lincoln (517) 629-2376

**MINNESOTA - May 16**  
**A.W.A. MEET**  
 Minneapolis - Regency Plaza, 41 N. 10th St.  
 Information: Phillip Drexler  
 1175 E. Ripley Ave., St. Paul, MN 55109

**MICHIGAN - July 18-19**  
**MICHIGAN ANTIQUÉ RADIO CLUB**  
**EXTRAVAGANZA**  
 Lansing - Dillon Inn  
 Swap Meet, Display, Program  
 Contest, Auction  
 Information: Jim Clark (517) 323-9595

**NEW YORK - May 9**  
**A.W.A. LOCAL SPRING MEET**  
 Bloomfield - American Legion Hall  
 9 a.m. - Flea Market; Noon - Dinner & Auction  
 10:30 a.m. - Sale of Surplus Museum Equip.  
 Information: Lauren Peckham (607) 739-5443



**INDIANA - May 1 - 2**  
**INDIANA HISTORICAL RADIO SOCIETY**  
**& A.W.A. - REGIONAL MEET**  
 Auburn, Indiana  
 Auburn-Cord-Dusenberg Museum  
 Swap Meet, Contest, Auction,  
 Program & Banquet  
 Friday, 4 p.m. thru Saturday Evening  
 Information: Eric vonGrimmenstein  
 9318 Seascapè Dr., Indianapolis, IN 46250  
 (317) 849-0563

**MARYLAND - June 10-13**  
**ANTIQUÉ RADIO CLUB OF AMERICA**  
**15TH ANNUAL CONVENTION**  
 New Carrollton, MD - Sheraton Hotel  
 Flea Market - Auction - Contest  
 Speakers - Tours - Banquet  
 Information: ARCA, Jane & Bill Denk  
 81 Steeplechase Rd., Devon, PA 19333

**CALIFORNIA - May 16**  
**SOUTHERN CALIFORNIA ANTIQUÉ**  
**RADIO SOCIETY & A.W.A. MEET**  
 Burbank - Lockheed Employees  
 Recreation Club, 2814 Empire Ave.  
 7 a.m. - Swap Meet; 10:30 a.m. - Contest  
 11:00 a.m. - Meeting, Luncheon, Program  
 Information: Floyd Paul  
 1545 Raymond, Glendale CA 91201

**ILLINOIS - Aug. 14 - 15**  
**ANTIQUÉ RADIO CLUB OF ILLINOIS**  
**& A.W.A. - RADIOFEST '87**  
 Elgin, IL - Holiday Inn  
 Swap Meet, Auction, Contest & More  
 Friday a.m. - Saturday p.m.  
 Information: Joe Willis, PO Box 14732,  
 Chicago, IL 60614

**RADIO CLUB LISTINGS**

(ANTIQUÉ RADIO CLUBS: Send club and meet information to A.R.C. for free listing here, as space permits.)

**Antique Wireless Association (AWA).** Bruce Roloson, P.O. Box 212, Penn Yan, NY 14527. Pub: *The Old Timer's Bulletin*, quarterly. Dues: \$8.00. National and regional conventions. Museum.

**Antique Radio Club of America (ARCA).** William Denk, 81 Steeplechase Rd., Devon, PA 19333. Pub: *The Antique Radio Gazette*, quarterly. Dues: \$12.00. National and regional conventions. Regional chapters.

**Antique Radio Club of Illinois (ARCI).** Carolyn Knipfel, Route 3, Morton, IL 61550. Pub: *ARCI Journal*. Dues: \$12.00. Annual Radiofest and additional meets each year.

**Arizona Antique Radio Club (AARC).** Treasurer, 2224 West De Sert Cove Rd. #205, Phoenix, AZ 85029. Pub: Quarterly Newsletter. Swap meets and annual meeting.

**California Historical Radio Society (CHRS).** Paul Bourbin, 25 Greenview Ct., San Francisco, CA 94131. Pub: *CHRS Journal*, quarterly. Dues: \$12.50. Quarterly swap meets.

**Greater New York Vintage Wireless Association (GNYVWA).** Bob Scheps, 12 Garrity Ave., Ronkonkoma, NY 11779. Pub: Meeting Notices. Dues: \$4. Six meets/year.

**Radio Club Listings Continued:**  
**Mid-Atlantic Antique Radio Club (MAARC).** Joe Koester, 249 Spring Gap South, Laurel, MD 20707. Pub: Newsletter, monthly. Monthly meets. Hosting National ARCA meet in June, 1987.

**Niagara Frontier Wireless Association (NFWA).** Dick Schamberger, P.O. Box 68, Central Park Station, Buffalo, NY 14215. Pub: *NFWA Chronicle*, quarterly. Dues: \$6.00. Regional meets.

**Northland Antique Radio Club (NARC).** P.O. Box 18362, Mpls, MN 55418. Pub: *NARC Newsletter*, six/year. Dues: \$10. About six meets/year.

**Pittsburgh Antique Radio Society, Inc. (PARS).** David W. Kraeuter, Secretary, 506 E. Wheeling St., Washington, PA 15301. Pub: *The Pittsburgh Oscillator*, quarterly. Dues: \$10. Quarterly meetings.

**South-East Antique Radio Club.** J Sherrod, 4419 15th Ave. S., St Petersburg, FL 33711. Club being formed. Lets try for a first meeting and swap meet in Tallahassee in June 1987.

**Southern California Antique Radio Society (SCARS).** Mary S. Curry, 10035 County View Rd., La Mesa, CA 92041. Pub: *California Antique Radio Gazette*, quarterly. Dues: \$10.00. Four meets per year.

**Vintage Radio & Phonograph Society (VRPS).** Larry Lamia, P.O. Box 165345, Irving, TX 75016. Pub: *The Reproducer*, quarterly. Dues: \$13.50. Monthly meetings, Spring Auction, Annual Convention.

**Please mention Antique Radio Classified when writing clubs.**

# BUSINESS CARD ADS - \$10.50 FOR 3 MONTHS

TELEPHONE 217 / 376-3828

Gilferd L. Baker

Vintage Radio, Phono &  
Lite Bulb Collection

Box 36 - 112 PEARLE ST. EMDEN, IL 62635



Antique Radio  
Service

REPAIR BUY  
RESTORE SELL  
*Woodwork a Specialty*

RICHARD FOSTER  
12 SHAWMUT AVE.  
COCHITUATE, MA 01778

617-655-2056

**KARL'S TUBES**

Older & Newer

Send Self Addressed Envelope & \$1.00  
for complete list

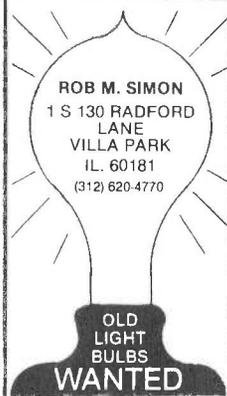
40 Howden Avenue, Nepean  
ONTARIO CANADA

K2G 3H6

BUSINESS CARD  
RATES

Run your business  
card ad or a small  
display ad here for  
only \$10.50 for 3 con-  
tinuous months. Art-  
work must be camera-  
ready or a busi-  
ness card. Typeset-  
ting is available for  
\$2.00 extra. Vertical  
or horizontal for-  
mats available:

High wide  
Horiz. 1 5/8" 3 1/2"  
Vert. 3 1/4" 1 3/4"



OLD  
LIGHT  
BULBS  
**WANTED**

ROB M. SIMON  
1 S 130 RADFORD  
LANE  
VILLA PARK  
IL 60181  
(312) 620-4770

**CHUCK'S ANTIQUE  
AC RADIO REPAIRS**

Tubes - Parts - Prints

Max. Labor Charge \$26.00

Chuck, P.O. Box 598  
New Haven, W. Va. 25265

— WANTED —

Old Transmitting Tubes

Amateur or Commercial types  
FOR MUSEUM

Ye Olde Transmitting Tube Museum  
Post Office Box 97  
Crescent City, California 95531



WANTED

**RADIO — WIRELESS  
Pre-1925  
ELECTRICITY — TELEGRAPHY  
Pre-1900**

Books, Magazines, Autographs, Catalogs, Ephemera  
One Item or Entire Collection

New Wireless Pioneers  
6270 Clinton, Elma, NY 14059 USA  
(716) 681-3186

**Antique Radios**

David & Nancy Snow

6024 Leora Ln  
Jackson, MI 49201

(517) 750-4992

We Buy, Sell, Repair

Custom Made Battery Eliminators



**REINKE & SONS**

Telegraph Items Bought & Sold  
Roger W. Reinke, Prop.

5301 Neville Court, Alexandria, Virginia 22310

**ARE YOU LOOKING FOR  
ANTIQUE RADIOS, PARTS, TUBES,  
SCHEMATICS, ETC.?**

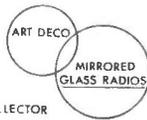
Send 2-Stamp SASE for free super flyer to  
OLDE TYME RADIO COMPANY  
2445 Lyttonsvilles Road, Silver Spring, MD 20910

Wish to contact us by phone?  
Our number is: (301) 585-8776  
Please call 10 a.m. to 10 p.m. (Local Time)

**IS YOUR  
BUSINESS  
CARD  
AD HERE???**



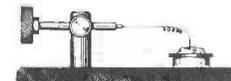
30s MEMORIES 40s



ED SAGE - COLLECTOR  
707-746-5659 1781 HELANE CT. BENICIA, CA. 94510



# WANTED



Radio and Wireless items - pre-1925:  
Books, Magazines, Catalogs, Receivers,  
Transmitters, Speakers, Crystal sets,  
Detectors, Tubes, and Spark Gear.

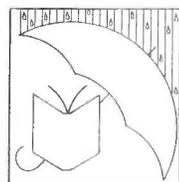
Will buy entire collections! Qualified appraisals anytime, anywhere.  
(References provided)

New Wireless Pioneers

**WIRELESS**

Jim Kreuzer, N2GHD, 6270 Clinton St., Elma, NY 14059 (716-681-3186)

**rainy day books**



44 Bertwell Road  
Lexington, MA 02173  
(617) 861-8656

frank bequaert  
lucia bequaert

**Technical Books  
Catalogs and Magazines  
Bought and Sold**

Radio - Wireless - Telephone  
Television - Broadcasting  
Electricity - Electronics  
Radar - Electric Power

Popular Science, Popular Mechanics  
1912 to 1977 - Many Radio Ads & Articles!

Send SASE with specific interests  
for list of items for sale.



**WAVES**  
ANTIQUES  
EARLY RADIOS  
&  
PHONOGRAPHS  
78 RECORDS  
BOUGHT • SOLD  
OPEN 12 - 6  
Closed Sun. & Mon.

32 EAST 13TH ST., NEW YORK, N. Y. 10003 212 989-9284  
PROPRIETORS Bruce and Charlotte Mager

**THIS MONTH'S SPECIALS:**

1. Spartan Advertising Clock.....\$275
2. Stewart-Warner Neon Adv. Clock...400
3. Burns Horn (Black).....175
4. Rider's Volumes 6 and 9.....15 ea.
5. Music Cathedral Radio.....200
6. AK E2 Speaker (Green and Black)...45
7. Paulson Speaker.....65
8. Seeburg Brown Bakelite Wall  
Speaker .....95

..SEE NEXT MONTH'S LIST FOR MORE..





# DISPLAY ADVERTISEMENTS

## WANTED

### ELECTRON TUBES - ST SHAPE

50, ST16, same size as 2A3.....\$16 50, ST19, large size.....\$20

### ELECTRON TUBES - ANTIQUE GLOBE SHAPE

37/237.....\$5 42/242.....\$7 45/245/345/445.....\$12  
 50/250/350/450.....\$30 56/256.....\$5 80/280/380/480.....\$9  
 585.....\$25 843.....\$7 10/210/310/410.....\$11  
 UV201, with top tip.....\$12 UV202, with top tip.....\$20 UX 216/216B.....\$7

### TRANSMITTING TUBES

211/VT4C.....\$12 845/VT43.....\$22

### WESTERN ELECTRIC TUBES

VT1.....\$16	VT2/205 B.....\$30
101D/F/L.....\$6	102D/F.....\$6
104D.....\$8	101/102/104, tennis ball shape.....\$16
D86326/D86327.....\$16	205D/E, tennis ball shape.....\$30
205F.....\$14	211D/E.....\$30
217A.....\$15	242A/B/C.....\$22
247A.....\$6	252A.....\$100
262B.....\$8	271A.....\$20
275A.....\$15	276A.....\$22
300A.....\$100	300B.....\$70
310A, mesh plate.....\$7	339A.....\$12
347A.....\$8	348A.....\$8
350B.....\$24	VT 25/25A.....\$6
	VT52.....\$10

*NOTE: All above prices are for "New, in Original Box" tubes. As for "Used" tubes, write for details.*

### WESTERN ELECTRIC EQUIPMENT - FOR THEATER & STUDIO

Drivers & Horns.....555(W), 594(A), 597A/B, 22A, 24A, 25A etc.  
 Speakers.....TA4151, 4153, 4181, 4191, etc.  
 Transformers.....171, 197, 618, etc. (List available)  
 Cartridges & Arms.....1A, 3A, 4A, 7A, 9A, 10A, etc.

*NOTE: We eagerly look for the above W.E. Theater & Studio equipment. We pay much more than any dealers in the U.S.A. Please inform us of their prices or your expected prices. We will never disappoint you.*

### ALSO BUYING

G.E. Variable Reluctance Cartridges: RPX 040/041/050, VR2, etc. ....\$20  
 Needles for above G.E. Cartridges: for 33/45 RPM. \$2 for 78 RPM.....\$4  
 Tone Arms: FA 21A (G.E.), 108B/206/208(Gray) & for above cartridge. \$25  
 Tube Sockets: UX 4-pin & UY 5-pin, Ceramic/Micanol with mount base type. Amphenol, James Millen & etc. We need large quantities. Please quote them and ask for details.

## TRIAL ELECTRIC PRODUCTS, INC.

409 Yotsuya Sun Heights, 6-1 Yotsuya 4 Chome, Shinjuku, Tokyo 160 Japan

# ANTIQUE RADIO CLASSIFIED

## CLASSIFIED ADVERTISING POLICY

**FREE 20-WORD AD** for subscribers in each issue; additional words are 10¢ each. See details below. All classified ads must be received (not just postmarked!) by the ad deadline. Late ads are held for the following issue. Please enclose correct payment with all ads. Stamps or cash are OK for small amounts. (Canadian and other foreign advertisers, please see masthead for payment methods.)

Please write each ad on a separate sheet of paper, especially when included with other A.R.C. correspondence. A 3 x 5 card is suggested if the ad is short. Ads may be sent in advance; again, write each ad on a separate piece of paper and indicate the month you want the ad to run.

Please write legibly. Some numbers and letters can look alike, for example 1, l and I (the number one, the capital i and the small L.) Write the following characters clearly:

1, l and I 0, O, o, Q and D r and n 6, b and G V, U, u, v and Y A and R 5, S and s 2, Z and z

We try to correct spelling errors, so when using an uncommon word or manufacturer which looks similar to a common word or manufacturer, note it so that we do not "correct" it. Editor's comments are in [brackets].

Advertisers, please describe fairly all items and identify reproductions, reprints and not-original items. Please respond promptly to inquiries and orders, and resolve problems promptly if the buyer is not satisfied.

Publisher reserves the right to edit ads without notification to the advertiser and to reject any ads. Publisher is not responsible for errors due to illegibly written ads or for any other reason; if requested, the ad will be run in the next available issue at no charge for errors due to A.R.C. All ad rates and details are subject to change by the publisher.

### CLASSIFIED AD DETAILS

Classified ads must have a standard heading such as **WANTED, FOR SALE, FOR TRADE, FOR SALE/TRADE, SERVICES, HELP**, etc. This heading is the only bold or all-capitalized words allowed in the ad. Capitalize only manufacturer names, model names, etc. Wanted and For Sale ads are mixed together to encourage the reading of all ads, including the Wanted ads. This standard ad format makes scanning the ads easier for readers who are searching only one category.

Before writing your ad, please look over the ads in a recent issue of A.R.C. and try to write your ad in the same style.

To encourage varied content of the ads, multiple insertions of the same classified ad are limited to two successive months. (To run an ad continuously, use a boxed-classified or display ad.)

### CLASSIFIED AD COSTS

Subscribers:  
 First 20 words: **FREE**. Write **SUB#** on ad.  
 10¢ per word for extra words over 20 plus  
 10¢ per word for a shaded ad (count all words including free words.)

Non-Subscribers:  
 20¢ per word **plus**  
 10¢ per word for shaded ad.

Please do not forget to send in the extra 10¢ per word when your classified ad runs over the free 20 words; your payment will be appreciated and it will help to keep A.R.C. healthy.

### COUNTING WORDS

The standard headings: **WANTED, FOR SALE, etc.**, count as **one word** each time used in an ad.

Name, address and telephone number, count as 6 words, regardless of length. Ham call letters and business name can be included in the 6 words and do not count extra. (Note: "Jim, (111) 111-1111" also counts as 6 words.) So, please include complete name & address in your ads.

After the above "seven" words, **13 words are left for the rest of the text of a free 20-word ad.**

### BOXED CLASSIFIED AD DETAILS

Boxed classified ads run unchanged for three months or more. No words are free. Ads may be shaded and may include bold and all-capitalized words freely. The ad need not begin with For Sale, etc. Boxed classified ads are placed with the display ads on the lower portion of the page.

### BOXED CLASSIFIED AD COSTS

Minimum run is 3 months, prepaid.  
 Non-shaded ads:

10¢ per word for all words\*, none free, **plus**  
 10¢ per word for each bold word **plus**  
 10¢ per word for each all-caps word.

Shaded Ads:

20¢ per word for all words\* **plus**  
 10¢ per word for each all-caps word.  
 Note: All words in shaded ads are bold.

Non-Subscribers:

Add 10¢ per word to above costs.

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

### PHOTO & DRAWING DETAILS

The deadline for ads with drawings or photos is the first of the month.

Although the column on the magazine page you are holding is 2 1/4" wide, the artwork given to the printer has columns 3 9/16" wide. The printing process reduces everything to 63% of the original.

Drawings should fit within the 3 9/16" column. If a drawing is too large or too small, it must be re-sized photographically for an extra charge. Photos may be of any size since all must be converted to a half-tone for printing; in the process, the photo size can be changed.

### PHOTO AND DRAWING COSTS

One-time charge of \$5.00 (no charge for drawing if size is OK) **plus**  
 \$1.00 per 1/2 inch (on artwork) per month.

*Drawings also may be requested to be run free and will be printed at the option of A.R.C. and as space permits.*