



ANTIQUE RADIO CLASSIFIED



VOLUME 24

DECEMBER 2007

NUMBER 12



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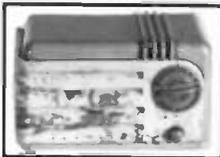
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PURPOSE. Antique Radio Classified is published for people involved in the radio collecting hobby. Its purpose is to stimulate growth of the hobby through the buying, selling and trading of radios and related items, and to provide a monthly forum for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



ANTIQUE RADIO CLASSIFIED



EDITOR'S COMMENTS

In 1947, exactly sixty years ago, what might have been the ultimate Christmas gift for Dad to bring home to the family? As Norman Braithwaite tells us in our lead article, it might well have been one of RCA's top-of-the-line, custom-designed radio/phone/TV Berkshire models. Of course, Dad would have had to be among the affluent or those willing to go for broke for better music quality.

For a moment, just think about the contrast the Berkshire models make with the set pictured on our cover. Only 24 years before RCA's big pitch for the Berkshire line, folks were listening on headphones to the music of the day coming from a little box. Norman's article tells us about a high-end line that offered giant steps in quality — AM/FM, preset tuning, 25" TV (large for its time), loudspeakers chosen by experts, designer cabinets — and on and on.

Though RCA's venture into this "ultracostly" market was not successful, Ray Bintliff's recollections about his assignment as the RCA engineer on the Berkshire project corroborates all that we read in Norman's article. Among other things, Ray reminds us of how important the LC-1 speaker designed by Harry F. Olson was to the quality of the Berkshire sound. This was the time when the quest for sound quality was really taking off, and both these articles illustrate what a fascinating interlude this was in radio history.

Walter Hall takes us further into that quest in the 1950s with his article on restoring vintage audio amplifiers. The Bogen and Scott amplifiers that Walter saved from the dumpster illustrate what was driving the market in the mid-20th century — the demand for reasonably priced, but ever elusive "near perfect sound reproduction." Walter also describes the manufacturing processes of the time — manual assembly and hard wiring — another reminder of how far our automated world has come.

And speaking of how far we've come, our update

NEW IN 2008 FOR A.R.C.

Rates. Our subscription rates have been the same since 1999 and during that time, mailing, production, and other costs have continued to increase. We are finally forced to respond with a rate increase. On January 1, 2008, U.S. subscriptions by Periodical Mail will be \$45.00; by First Class Mail, \$60.00.

The "good" news is that current subscribers may renew now at the old rates. So, renew now and save.

Foreign rates by air mail will remain the same, but unfortunately, international periodical surface mail is no longer offered by the postal service.

Web Site. Changes are being made on our web site also. To reduce the exposure of our subscribers to scams, we no longer make ads available to nonsubscribers. And, we have improvements to our marketplace in the planning stages and hope to add a past auction price search capability soon.

composite article on the meaning of "JARS" indicates that A.R.C. needs to go much farther in its research on terminology. Though we like to be right all the time, sometimes it can be fun to find that we're wrong. Then we have alert readers like Ray Chase, Ardy Emerson, Mike Feher and Ludwell Sibley taking us to the woodshed. The term "JARS" and others like it will never again "snooke" us — we hope.

Nevertheless, real mysteries abound in the radio collecting community. Once again the subject is sound quality, and Jerry Wieland tells us about his search for a solution to a higher than normal noise level on the shortwave bands of his Trans-Oceanic FT7000-2. To make things more challenging, Jerry throws in another little mystery — why does a Motorola emblem appear on his Zenith radio?

Well, we can't answer them all, but we can keep coming up with more information. Auctions provide one way to find out what's been going on in the marketplace, and to that purpose, we present another Estes Auction report. Prices were impressive for high-level sets like a Sparto Nocturne, an E.H. Scott Philharmonic, and a number of Catalins. A private collection auction like this one reveals what has been hidden away waiting to change hands.

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Coming Radio Events. Late fall and the collecting action continues. Listed this month are 6 meets, 20 meetings, and 3 auctions. Holiday festivities will no doubt be included, so be sure to join in the good times.

Happy Holidays to all from everyone at A.R.C.

John, Cirdie, Dorothy,
Bobby, Fay and Dave

ON THE COVER

Our cover is a postcard from the John V. Terrey collection. It has a clear postmark of "Boston, Mass., Dec. 26, 6 P.M., 1924." Addressed to "Dr. & Mrs. Gleason, Hotel Buckminster, City," it has the street address, "Beacon St.," written at the bottom of the card. The sender, Anna Rudolph, relied on the legend on the front of the card for her message — "Hello, it's Christmas. If you're listen' in today, you'll hear the wish I send your way, A Very Merry Christmas."

OOPS!

It's one thing to make an error within an article, but quite another when it's on our cover. Our thanks to Robert Diegoli for pointing out that the set on the November cover is an Air King Model 66, not a Model 52 — a mistake also in the auction listing.

WITH THE COLLECTORS

The RCA Berkshire Line High Fidelity for the Wealthy

BY NORMAN S. BRAITHWAITE

In 1947, RCA entered the high-end market with its Berkshire line of radio-phonographs and TVs. In this article, Norman Braithwaite describes these sets and how RCA introduced the Berkshire line to the public. (Editor)

During the Depression years most radio corporations relied on mass production of low- to mid-priced receivers for their success. Some radio companies such as E.H. Scott Radio Laboratories and Capehart thrived on marketing radios to the wealthy. Others, including Philco, RCA, Stromberg-Carlson and Zenith, also marketed to the wealthy by offering custom-built and elaborate receivers in addition to their main product lines. At least one company specializing in elaborate and custom receivers, McMurdo Silver, Incorporated, did not survive the Depression due to the pressures of competition.

Although faced with competition in a limited market, RCA decided to enter the high-end radio game. The story behind this decision and a description of some of the products are the focus of this article. One model, the Berkshire Breakfront, a combined radio/phonograph/TV is shown in Figure 1.

As the United States became more involved in the war in Europe, the supply of materials used for manufacturing radios was diverted to manufacture of war products. Production of radios for civilian use came to a halt. Radio manufacturing facilities were retooled and electronic engineers and assemblymen were reassigned and retrained to produce war products. Tremendous advances in electronic circuit design and manufacturing processes resulted from the war effort. When the war ended late in 1945 and contracts for military products were abruptly terminated, radio manufacturers faced many challenges reestablishing a position in the civilian market.

POSTWAR DEMAND

The postwar economy was driven by a very substantial demand for new products by returning military servicemen, as well as the general public. Because of this demand and the cost of retooling for civilian products, the cost of new products had approximately doubled since before the war. When it came to radio receivers, there was a demand for receivers that were capable of receiving the new noise-free FM transmissions. Those that could afford one wanted a television receiver. Companies in the business of manufacturing radios increased their market share by offering receivers with the new FM broadcast band, television, and

full-featured consoles.

After the war, Scott Radio Laboratories, formerly E.H. Scott Radio Laboratories, and Capehart under the ownership of Farnsworth, continued to offer their top-of-the-line combination consoles to the wealthy. Scott Radio Laboratories also continued to offer custom-built installations designed around their chrome-plated Model 800B chassis. New companies also entered the custom-built market for the wealthy. Among these were the Fisher Radio Corporation, offering an elaborate high-fidelity console comprised of components that could be purchased individually, and Radio Craftsman offering chrome-plated tuner, amplifier, and television chassis for custom installations.

RCA SURVEYS THE MARKET

At RCA, Frank Folsom, vice-president in charge of operations at the Victor Division and one time vice-president of Montgomery Ward, proposed the idea that RCA develop and offer a sophisticated custom-built radio as a way to apply considerable experience gained from wartime electronic research.

Seeing a potentially significant market and not wanting to overlook an opportunity, RCA conducted a survey to identify the market for an "ultracostly," full-featured, true high-fidelity receiver/phonograph/television combination in designer consoles, or for custom installation. The survey indicated two groups would buy such an offering: the wealthy and the music lovers "willing to spend a disproportionate portion of their incomes on a super deluxe music maker." Further, another survey indicated that almost three-fourths of purchases would be made by or directly influenced by women.

This latter survey justified RCA's selection of Harriet H. Higginson, formerly in charge of Montgomery Ward's fashion merchandise program, to be head of the ultracostly receiver program. Marvin Hobbs, formerly chief engineer responsible for development of FM receivers at E.H. Scott Radio Laboratories, was retained in a consulting capacity as the chief engineer of the Berkshire project.

RCA's ultracostly receiver concept was to design and build an easy-to-use, full-featured, designer receiver using the best possible parts regardless of whether or not the parts were manufactured by RCA. Features were to include full AM coverage from the broadcast band through 22.5 megahertz, bandspread on foreign shortwave broadcast bands, FM broadcast band coverage, a high quality automatic record changer, a powerful high fidelity amplifier, a high quality speaker in a true high fidelity



Figure 1. This reproduction 18th century cabinet housed the Breakfront model that contained a radio, phonograph, and projection-type TV. It was big and measured 94" h x 75 3/4" w x 22 1/2" d. It sold for about \$4,000.

enclosure, and, for those who could afford it, a large screen television receiver. The receiver was to be designed with the capability of remote operation in the future. The combination would be offered in designer consoles for custom installation.

BERKSHIRE DEBUT

To attract the attention of the wealthy and music lovers willing to spend a disproportionate

portion of their income, it was believed that introduction of such a receiver should not be understated. RCA chose the famous Berkshire Music Center (now called the Tanglewood Music Center) in Lenox, Massachusetts, for the unveiling. RCA did, indeed, introduce the receiver in style! To an all-expenses-paid crowd of 80, a third of whom were press agents, RCA unveiled the re-

(Continued on following page)

(RCA Berkshire, continued)

ceiver on July 29, 1947, in a very lengthy presentation with full theatrical pageantry.

The highlight of the presentation occurred when Serge Koussevitzky, conductor of the Boston Symphony Orchestra playing Beethoven's "Egmont," held up his hand and stopped the orchestra. To the astonishment of the audience, the selection seamlessly continued from a recently recorded version by Serge Koussevitzky and the Boston Symphony Orchestra (recorded earlier at Tanglewood) being played on the new receiver. In exchange for the use of the Berkshire name, RCA committed the profits from the first 200 "limited edition" sets for scholarships to the Berkshire Music Center. If the initial offering was a success, RCA would offer additional models with more features during future years.

BERKSHIRE COMPONENTS

The high fidelity speaker for the set was selected from a field of five high quality speakers by a group of acoustic engineers and Leopold Stokowski, the famous conductor of the Philadelphia Orchestra. One of RCA's own speakers, the Model MI-11411, better known as the LC-1 or LC-1A, designed by Harry Olson, was selected in a blind listening test. All speakers were pre-viewed in identical cabinets.

Phonographs offered with the combination included the Thorens CD-40 or Garrard RC-65, and an RCA 45-rpm record changer as an accessory housed in an attractive wood "treasure chest" cabinet. No LP record changer or turntable was offered. The LP was a competitor's product.

Design and construction of the receiver was contracted to ARF Products, Incorporated, of River Forest, Illinois. ARF Products was a small firm best known for research, development, and production of sophisticated military electronic equipment from the 1940s through the 1970s.

THE RECEIVER

The receiver control panel, shown in Figure 2, was designed by John Vassos well known for the design of Chrysler vehicles from the late 1950s and early 1960s.

Although well presented and in designer consoles, from a technical perspective, the Berkshire



Figure 2. This front view of the receiver shows its clean lines and symmetrical layout. The front panel was designed by John Vassos. The meters indicate signal strength and FM station centering. Audio bandwidth is graphically indicated on the white line below the bass and treble thumbwheels below the meters.

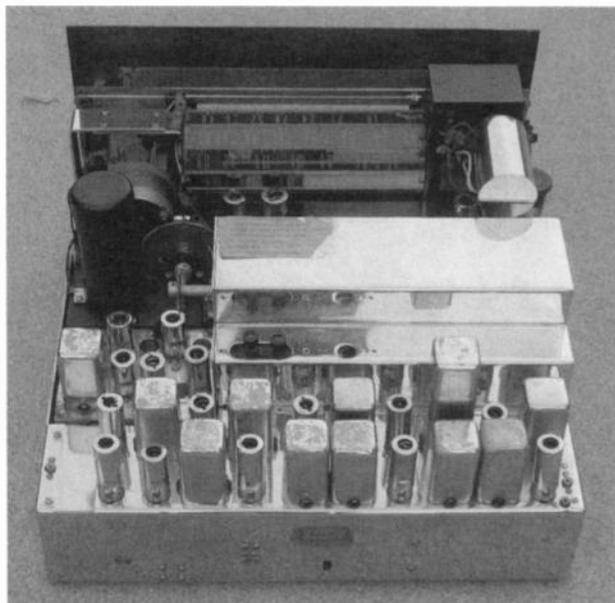


Figure 3. A rear view of the tuner chassis with the bandswitch tuning mechanism at the top left of the photo, the rotating dial scales top center, and the tube layout at the bottom.

was unusual, but not revolutionary. To a great extent, the receiver and amplifier chassis were built in a manner similar to military equipment. A top and rear view of the chassis is shown in Figure 3. The receiver chassis included several sub-chassis assemblies one of which was a Collins Auto tuner. This was a motor-driven tuner with notably accurate and repeatable preset capability designed for aircraft transmitters by Arthur Collins of Collins Radio Corporation during the late 1930s. A close-up of the motor-driven bandswitch mechanism is

shown in Figure 4.

Both the AM and FM receivers included two stages of RF amplification. The AM receiver contained four stages of intermediate frequency amplification, and the FM receiver contained three stages of intermediate frequency amplification. The FM receiver included a ratio detector to avoid patent infringement of Armstrong's superior discriminator circuit.

Figure 5 provides a look at the FM tuner portion of the chassis, while Figure 6 shows the 4-gang tuning capacitor used for AM tuning. The complexity of the tuner chassis is shown in Figure 7.

In blatant defiance of Armstrong's patent, however, and much to the discouragement of Armstrong, RCA used the discriminator circuit in the television receiver chassis for detecting the FM sound carrier. The filaments of all tubes on the radio tuner chassis were operated on direct current. The 85-pound audio amplifier/power supply was designed to develop 40-watts "undistorted" and 50-watts maximum output from four Type 6L6G tubes in conventional, fixed bias, push-pull parallel pentode operation.

A total of 33 tubes was used in the radio receiver, and 35 additional tubes were used in the projection television receiver. Power required for radio or phonograph operation was 400 watts and for television operation, 900 watts. The receiver was designed to be operated from 110- or 220-volts AC, 50 or 60 hertz.

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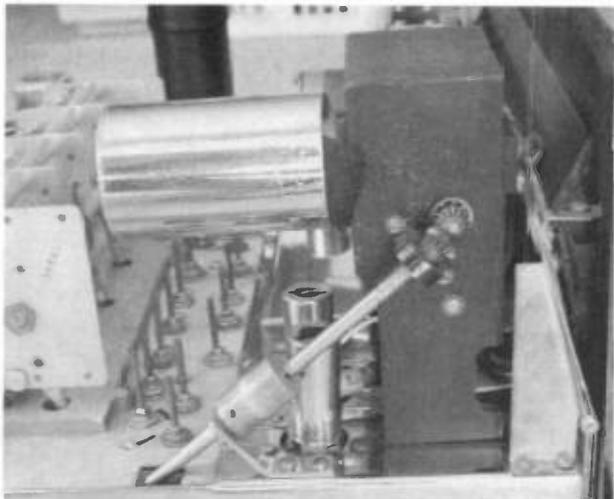


Figure 4. This close-up shows the bandswitch motor, gears, and driveshaft that make up the bandswitching mechanism.

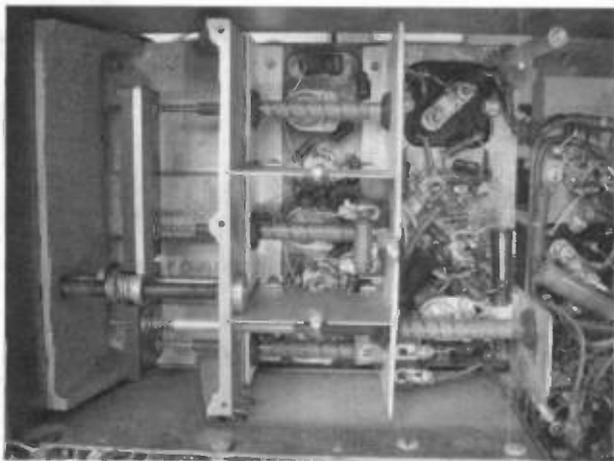


Figure 5. The FM front end employed permeability tuning and a rugged cast aluminum housing.

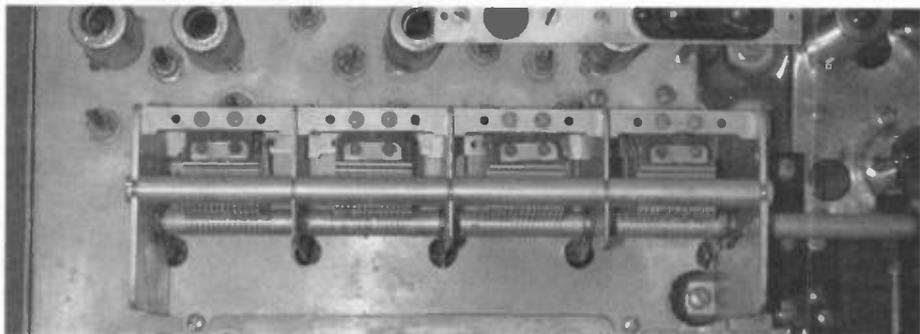


Figure 6. In this view, the cover has been removed to show the 4-gang tuning capacitor used in the AM section.

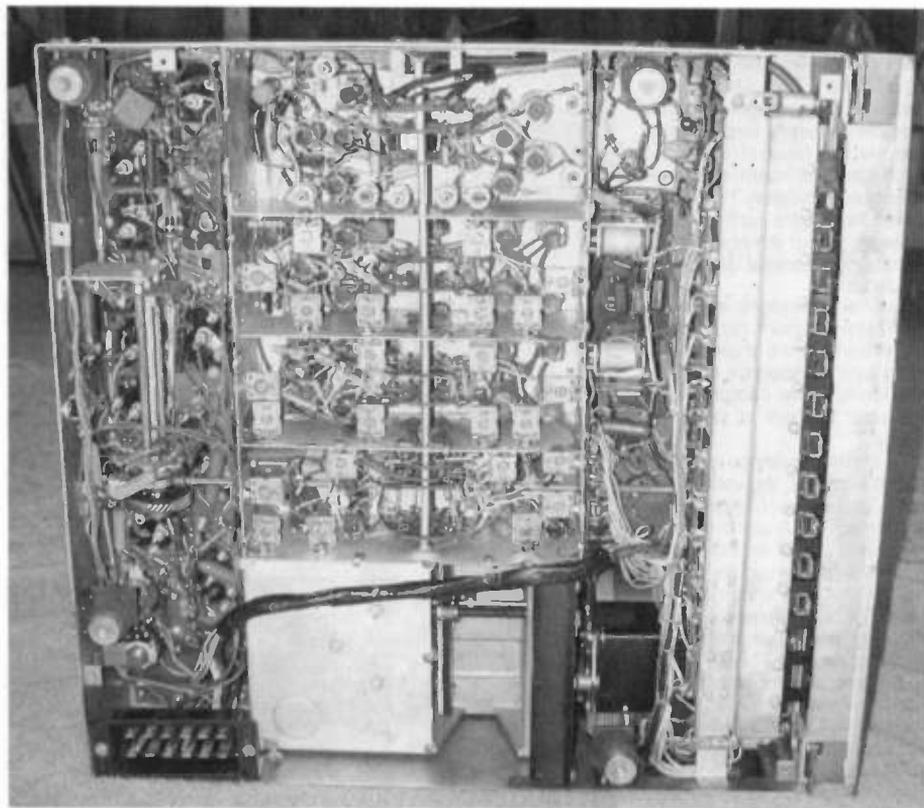


Figure 7. The bottom shield has been removed to show the complexity and component density of the tuner chassis. Maintainability was not high on the designer's list of features.

(RCA Berkshire, continued)

DESIGNER CABINETS

Customers were offered a choice of five designer consoles. The most elaborate were the eighteenth century "Breakfront" console weighing 720-pounds and a "Secretary" console, both designed by William Millington of Baker Furniture, Incorporated. The Breakfront console is shown in Figure 1 earlier in this article.

The "Modern" and "Contemporary" consoles were designed by T.H. Robsjohn-Gibbins and a "Regency" console was designed by Edward Wormley. The Modern, shown in Figure 8, bears a strong resemblance to the low, wide television combinations offered 20 years later. Other cabinet styles included the "Contemporary" model and the "Regency" model, shown in Figure 9. These models were radio-phonograph



Figure 8. The Modern model was used at the now famous demonstration at the Berkshire Music Center. It too was a radio-phonograph.

graphs.

In addition to these standard models, the Berkshire line offered custom cabinets, such as the "Clubman," also including a projection television set, shown in Figure 10.

EASE OF OPERATION

As promised, the radio receiver was designed for ease of operation. Controls included a volume control, noise suppressor control, selectivity control, manual tuning control, radio station keyboard and band keyboard. Instructions for the controls were clearly and simply written for a nontechnical owner. Switching between the AM bands, FM, television and phonograph operation was accomplished from push buttons using a motor driven bandswitch and drum dial indicator. A second motor was used to operate the tuner and station indicator when selecting a station using push buttons.

Other indicators included a signal strength meter, FM tuning meter and "calibrated tone scale" for indication of bass and treble cutoff. A total of 10 presets was available for user programmable AM or FM radio stations. Both the bandswitch and tuning motors are engaged when selecting a station using push buttons.

MECHANICAL AND ELECTRICAL SHORTCOMINGS

In spite of the military style design, the Berkshire had its share of problems. As is often the case with mechanical and electrical items built to architectural designer specifications, and much like the Vassos designed automobiles of the late 1950s and early 1960s, serviceability was not a priority. As a consequence, replacement of some dial lamps requires removal of the front panel (a substantial effort).

Deviations from usual military construction practices also contributed to difficulty servicing. The wiring harness was installed below the subassemblies instead of next to the chassis. This construction practice, along with the fact that the wiring harness was of plastic insulated wire, makes servicing nearly impossible without damage to the wiring harness.

Component board subassemblies were constructed with components on both sides. However, instead of routing leads of backside components around the end of the component board to solder posts, the leads were routed through the "eyelet" holes of solder lugs wrapped around the solder lug and soldered to the lug through the eyelet. This makes removal and replacement of components on the backside of circuit boards very difficult. More annoying was the requirement of removing the entire push-button assembly in

(Continued on following page)



Figure 9. This Regency model was designed by Edward Wormley. It was larger than the Contemporary and measured 52" x 72" x 23½".



Figure 10. The Clubman was housed in a custom cabinet and included a projection TV. It was especially designed for the Knickerbocker Club in New York, according to a sales brochure.

(RCA Berkshire, continued)

order to service the audio circuits of the receiver.

In addition to poor serviceability, the shortcomings of the Berkshire receiver included poor tracking on the FM band (disparity between frequency of received FM signal and dial indication), narrow ratio detector bandwidth (less than one-half of the IF bandwidth rather than twice the bandwidth generally considered necessary), inefficient receiver audio output circuit, and a short-lived selenium rectifier used for the filaments on the tuner chassis. Although the audio amplifier of the Berkshire was capable of developing up to 50 watts RMS of audio power, the LC-1 speaker was designed to handle only 20 watts RMS. The LC-1 is shown in Figure 11.

THE BERKSHIRE AMPLIFIER

The Berkshire amplifier, shown in Figure 12, was designed with three 15-ohm resistors in series-parallel with the speaker. These resistors were included to limit the power reaching the speaker and to allow the easy addition of accessory speakers by substitution of resistors with the additional speakers. Given this design, the actual power reaching the speaker is 10 watts "undistorted" or 12.5 watts peak, and $\frac{3}{4}$ of the audio power developed by the amplifier is dissipated by the resistors as heat.

Additional inefficiency can be attributed to the use of a selenium rectifier for rectifying the filament power for all tubes on the tuner chassis. As the selenium rectifier aged, the efficiency of the rectifier would decrease resulting in reduced voltage supplied to the filaments. The replacement of this rectifier was straightforward when the correct selenium rectifier component was available. However, today, replacement of the rectifier with diodes requires the addition of a substantial size series resistor or some clever rewiring of the transformer circuits supplying the tuner filaments. With the possible exception of FM tracking, the



Figure 11. The LC-1 loudspeaker designed by Dr. Harry F. Olson. These speakers are selling for about \$500 and are still in demand.

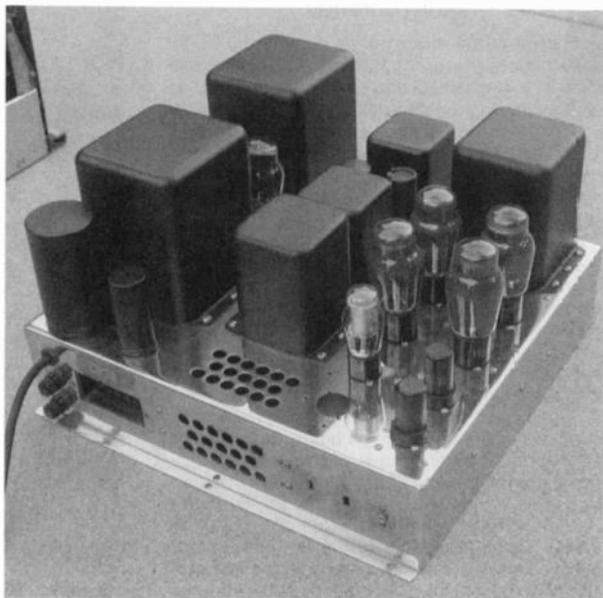


Figure 12. This view of the power supply/power amplifier chassis shows plenty of iron on a chrome-plated chassis. Four Type 6L6G tubes are used in push-pull parallel.

purchasers of the receivers were largely unaware of these problems.

MARKETING RESULTS

RCA was able to sell substantially all of an initial run of 500 receivers contracted from ARF Products. Profits from the sales did not recoup project development costs, and the project fell out of favor with RCA management in Camden. Apparently, there was enough interest in the receiver, however, for RCA to inquire about another run of chassis from ARF Products. If RCA could sell more of the receivers at a better profit margin, they could recoup their development costs, establish the company as the market leader for the product, continue the line of receivers, and turn a profit on the receivers.

RCA entered discussions with ARF Products for a second run of chassis to be provided at a lower cost. ARF Products had not profited from its contract for the first run, and, even if the cost of constructing the chassis were covered, RCA's lower offer for the second run did not allow ARF Products a satisfactory return. Consequently, no new contract was entered and no more "ultracostly," full-featured receivers were built by RCA.

Among the general public, including "music lovers willing to spend a disproportionate portion of their income," interest in the elaborate, full-featured combination receivers was waning due to the introduction of high-fidelity components. The high-fidelity components and component television chassis allowed consumers great flexibility in assembling an entertainment system to meet their particular interests. In a short time, the RCA Berkshires, E.H. Scott 800 Series, Capehart 400 Series, and a few other top-of-the-line, full-featured combination receivers were replaced by Brook, Fisher, Radio Craftsman, H.H. Scott (not related to E.H. Scott), and a few other manufacturers' components.

Although wealthy consumer interest supported limited production of an ultracostly, full-featured receiver, RCA's Berkshire failed on an economic basis. Neither ARF Products nor RCA was content with its profits, and RCA did not believe it could maintain sales if it were to raise the prices of the receivers enough to make the project profitable. The military practices of design and construction that allowed manufacture of large quantities of serviceable, high reliability receivers for the military, understandably, were not cost effective for small runs of consumer receivers.

Since RCA had wisely implemented the project using contracted services and minimal staff, with the exception of the project cost, the economic failure of the project did not reflect substantially on the company's image. RCA did not feature the receiver in advertising as many companies are prone to do with their benchmark products, and no mention of the receiver was included in the recently published RCA history *His Masters Voice in America*.

BERKSHIRE COLLECTIBLES

Today, the RCA Berkshire receivers are very difficult to find, especially in an original cabinet.

Most surviving chassis have some degree of cosmetic distress, and all will require electronic service if not previously conducted. Given the very congested circuit and complex electro-mechanical systems, the tuner chassis is not a good candidate for replating. In addition to repair of specific problems as required, rebuilding of the push-button assembly, replacement of wax-paper capacitors, and alignment are required for reliable operation of the receiver.

Even if not working, the Berkshire is considered very collectible. Nonworking Berkshire chassis set in fair to good condition offered on eBay during the past few years have commanded prices around \$1,000 for the tuner chassis and approximately \$500 for the LC-1/LC-1A speaker.

A complete Berkshire in a breakfront console with a matching dining table and six chairs (table and chairs by a different furniture maker), all in excellent unrestored condition, recently changed hands for many thousands of dollars in a private sale. While these prices may appear high for a postwar receiver, very few opportunities exist for purchasing a Berkshire receiver, and the value of these receivers is not likely to go down.

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Special thanks to Marvin Hobbs and John Baldwin for information about the relationship between RCA and ARF Products.

Norman S. Braithwaite, P.O. Box 992443, Redding, CA 96099. Pacific_Hydrologic@abcglobal.net

In 1975, Norman Braithwaite, a civil engineer, began collecting antique radios, especially those manufactured by E.H. Scott and its competitors. His collection includes representative sets from 1917 to 1960, the prize being a rare Scott 48-tube custom receiver.

WITH THE COLLECTORS

RCA Berkshire Recollections

BY RAY BINTLIFF

When staff member Ray Bintliff was given the task of editing Norman Braithwaite's article about the RCA Berkshire series, he was delighted and remarked, "I worked on that project." Below are Ray's recollections of RCA's entry into the custom radio/TV market. (Editor)

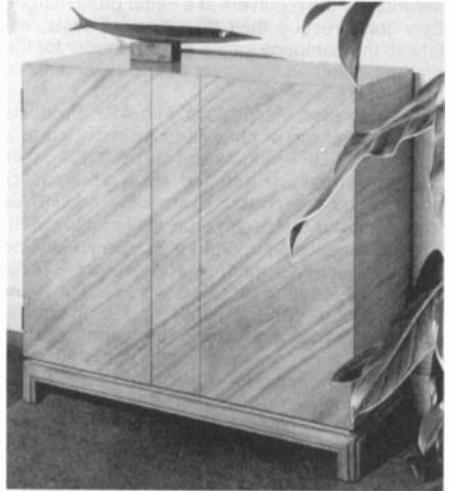
Working on Norman Braithwaite's article about the RCA Berkshire line caused a few old memories to bubble to the surface. The following recollections may provide some useful background for Braithwaite's account of the Berkshire project.

The RCA Service Company's Television Service branches were established to provide TV installation and repair service to consumers and dealers. However, some branches also provided technical services for VIPs and RCA/NBC executive accounts as well as other special activities. During my tenure in New York City in the late 1940s, I had the good fortune to be assigned to some of those special activities. Being the "Berkshire guy" was one of those assignments. Working with Harriet Higginson and the Berkshire project was a memorable experience even though the Berkshire never became a commercial success. It was a delight to work with Ms. Higginson. She seemed to have carte blanche and a very adequate budget.

Marketing efforts were "big time" — various Berkshire models were placed on display in the lobby of the Plaza Hotel. Sets were also placed in the homes and offices of VIPs and RCA/NBC executives. The models ranged from the impressive Breakfront to the simpler contemporary-styled models. My recollection is that some sets were housed in custom cabinets as well as the standard models described in Braithwaite's article.

An important component of the Berkshire sets was RCA's LC-1 speaker designed by Dr. Harry F. Olson. This famous speaker and its successor, the LC-1A, are superb speakers. I worked on a number of projects that employed this speaker and sat through several comparative listening tests. These speakers were the gold standard. I can recall one application in which the LC-1A was part of an audio system driven by a direct audio line to the NBC studios. When the sound effects man broke a glass, your first reaction was to go looking for a broom. It was that good.

The TV set used in the Berkshire series was RCA's commercial projection TV that used a 15" x 20" screen. It was developed to compete with DuMont's large-screen CRTs which because of their convex viewing surface always reminded me of viewing a picture through the bottom of a goldfish bowl. The projection sets were not without issues. The 27 KV anode voltage was a great dust precipitator. Mirrors and lenses required periodic cleaning. The 15 kHz sweep frequency was a problem for the dogs in a household. Adjustments, both electronic and optical, were necessary to obtain vertical and horizontal linearity. Adjusting these



The Contemporary model, designed by T.H. Robsjohn Gibbings, measured 44 7/8" x 40" x 21". It was priced at \$1,700.

sets was a challenge.

As to the receiver, it sounded good. Again Dr. Olson was in the picture with his version of a noise suppressor. Noise suppression was a necessity for playing 78 rpm records. RCA's ratio detector circuit, also called the Foster-Seeley circuit, was developed in the RCA Licensing Lab to avoid payments to Armstrong. It worked, but not as well as Armstrong's discriminator.

The use of the Collins *Autotune* mechanism made the set easy to operate, when it worked. This application of the *Autotune* was troublesome at best. Skilled as they were at TV repair, most technicians in the RCA Service branches were incapable of maintaining the tuners, and roving specialists were dispatched to the various service branches on an as-needed basis. And not always with happy results.

I wonder what happened to those sets placed in the homes of RCA executives and others. Did General Samoff have one in his home? Nope, because he had an even more impressive home entertainment system. When time permits and more memories bubble to the surface, I intend to write about the ultimate home entertainment system, ca. 1947.

*(Ray Bintliff, 2 Powder Horn Ln., Acton, MA 01720)
A.R.C. staff member Ray Bintliff holds an Amateur Extra Class license. A retired engineer, he enjoys repairing and restoring pre-1945 radios and test equipment. His interests also include electronic equipment and audio reproduction.)*

WITH THE COLLECTORS

Vintage Audio Amplifiers

BY WALTER H. HALL

Walter Hall describes two vintage audio amplifiers from the 1950s and provides some history of audio reproduction from that period. He also points out that vacuum tube audio amplifiers are still popular. (Editor)

My interest in audio amplifiers goes back many years, and from time to time, I have built and tested a variety of conventional tube-type amplifiers just for the pleasure of doing so. In the process of building and experimenting with the various approaches to achieving that elusive goal of near perfect sound reproduction, I have acquired and accumulated a few amplifiers some of which serve as historical references.

This article presents a brief history of sound reproduction in the 1950s and is centered on two vintage, tube-type, single-channel (mono) audio amplifiers that were saved from the dumpster and survived to function essentially as well as they did the day they left the factory. These amplifiers are identified as the Bogen Model DB-13, shown in Figure 1, and the Scott Model 97 B, shown in Figure 2. They were probably sold to their original owners during the 1950s.

In the recent past, out of curiosity, I took a close look at these two amplifiers which had occupied space on my workshop shelves for a lot of years. Though they had been stored under favorable conditions, their condition was unknown, as far as the effect of the passage of time was concerned.

Because of the potentially destructive consequences of that long lack of use, I decided on a preoperational conditioning period to protect the electronic components, especially the electrolytic capacitors and selenium rectifiers. In addition to the conditioning period, I examined the amplifiers for other evidence of deterioration due to long-term storage. None was found. Only routine maintenance, such as cleaning and tube testing, was performed before operational testing.

MANUFACTURING TECHNIQUES

While the two amplifiers were probably intended for the same market, since they both could accommodate a variety of input devices such as tape players, record players and tuners, they are significantly different in mechanical and electron-



Figure 1. The Bogen Model DB-13 amplifier

ic details. However they both employ push-pull Type 6L6G vacuum tubes making them essentially similar from the standpoint of performance. While relatively complex by today's standards, both amplifiers bring to mind the manufacturing techniques which prevailed during the mid-20th century, before printed circuitry and automated assembly became common practice.

These two amplifiers were both manually assembled and hand-wired on the production lines typical of that period. The assembly line production of these and similar items was a relatively economical way of manufacturing at the time when young women were given specialized training to perform intricate assembly procedures. The process worked well because each operator performed a small portion of the overall assembly work so she became proficient in the specialty.

The production lines of the earlier times were a practical solution; however they were vulnerable to occasional errors by the line personnel, which could have disastrous results. For that reason, interspersed with the line workers were "checkers" whose job it was to spot errors quickly.

Other problems, such as faulty or incorrect component parts, were sometimes not discovered until the assembly had been completed, with potentially serious economic results. So the more complex the design, the greater the possibility of line interruption.

The advantages of the wired type of construction when it comes to repairs or other rehabilitation work are obvious to those of us concerned with vintage electronic equipment. While later technol-

(Continued on following page)

(Vintage Audio Amplifiers, continued)

ogy made for faster and more economical manufacturing through the use of printed circuits, dip soldering, etc., and resulted in superior devices, repairability may not be the practical panacea it once was.

THE PURSUIT OF SOUND QUALITY

While these two amplifiers represent drastically different engineering approaches, they were both intended for users having more than an ordinary interest in sound reproduction. They both included features that optimized compensation for the variety of recording practices in use during the mid-20th century and later.

The consumer demand for the ultimate sound reproduction has increased steadily over the years and probably will never be totally satisfied.

Obviously, the ultimate usefulness of audio equipment devices is the quality of the acoustic reproduction they produce. Based on listening tests of both amplifiers, the sound quality using music sources reminiscent of their time, was excellent. It was typical of well designed devices of a period when serious efforts were being made to satisfy an increasingly critical audience.

For those who may see these amplifiers as less than optimum compared with more efficient transistorized devices, it should be noted that the popularity of vacuum tube amplifiers is still alive and well in products available today. For example, a current flyer from a Midwest radio parts supplier lists two tube-type audio amplifiers, both

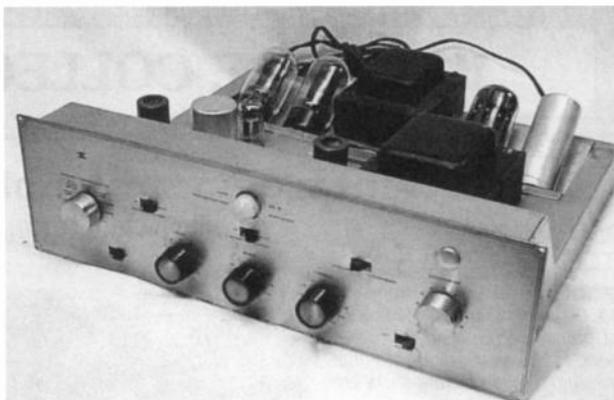


Figure 2. The Scott Model 97 B amplifier.

using push-pull EL-34 output tubes. Both of these amplifiers were available "on sale" for \$697.85 marked down from the original price of \$748.80. The flyer also lists other vintage tubes, such as Types 6SN7 and 6SL7, both used for similar purposes in the 1950s. So the magic of the vacuum tube still persists, and no doubt, there will continue to be a ready market for these items by those who admire the acoustic realism attributable to vacuum tubes as compared to transistors.

(Walter H. Hall, 405 Ludlow Ave., Spring Lake, NJ 07762)

Walter Hall has spent nearly a lifetime in the electronics business. Although he is now retired, he still enjoys collecting and rehabilitating vintage electronic devices.

More On JARS

CONTRIBUTIONS BY RAY CHASE, ANDY EMMERSON, MIKE FEHER AND LUDWELL SIBLEY

We here at A.R.C. are fairly knowledgeable when it comes to old radio topics, but once in a while we are "snookered!"

We were confused by Tom Stevens's query about JARS in the September 2007 issue and did not find any information on it; we, too, thought JARS might be the manufacturer's name. In the end, the only reference we could find that mentioned JARS was "The Admiralty Handbook of Wireless Telegraphy," cited in several of the letters below. Our readers are on the ball! (Editor)

From Mike B. Feher

I received the latest A.R.C. in today's mail. I was interested in the fax machine article on page 6, as I have one of those early fax machines along with a demo LP. I never did anything with it.

Then I got to page 9, and, I thought this was the April fools' issue. I cannot believe that article even got published. By the way, I have the same condenser.

Anyway, I am sure you know that JARS is a unit of measure for capacitance, common in the

UK. Right now I do not know the conversion between JARS and microfarads, but they are related. It is not a manufacturer. The term came about from the capacity of a certain size of Leyden jar. A lot of early capacitors were marked with units in JARS.

(Mike B. Feher, N4FS, 89 Arnold Blvd., Howell, NJ 07731)

From Ray Chase

Just got the September Issue and noticed the story on the "JARS" condenser. Actually, it was not made by JARS; the term is an obsolete unit of capacitance, used mostly by the Brits. Attached is an article that I wrote earlier this year on the subject. [See box on following page.] You may use it, edit it, or otherwise do as you will with it, including tossing it in the wastebasket. It was printed earlier in our NJARC club newsletter.

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

How Many JARS In Your Radio? Or More Strange Esoteric Facts On Those Capacitors That Bedevil Our Radios

BY RAY CHASE

If you subscribe to the Tube Collectors Association "Reflector," you know that it is peopled by many knowledgeable engineers, physicists and other "boffins", (definition of a "boffin" supplied upon request) who are ready and willing to debate almost any technical subject. Recent discussions of the relative merits of the International SI based measurement systems over CGS, English, or other conventions have presented some revealing and interesting comments and discussions. In relating some prior ancient and odd units of measurement such as gills, ells, grains, minims and halves, the subject of using JARS as a unit of capacitance finally came up.

This was serendipitous, as Al Klase and I were at the Ft. Monmouth Museum a short time ago and observed a World War I era European-style tube amplifier (possibly used by Major Armstrong himself) that had a paper schematic in its lid on which the capacitors were labeled in JARS. Now, I had heard of the use of JARS to denote capacitance values but had not seen any examples. Al too was aware of the term JARS and wondered how capacitance could be defined in centimeters, which he had also heard about. Well, from the panel of experts on the Tube Collectors Forum, I'm here to reveal all to you.

JARS go back to the primordial days of electricity when the only capacitors were Leyden jars. (Incidentally, I'll use the term "capacitors" synonymously with "condensers" — the termi-

nology used in the "early days.") Leyden jars would be connected in series or parallel as needed, and most early spark transmitters used banks of Leyden jars to store energy for the spark.

One forum commentator recalled that some British Navy textbooks continued the use of the term JARS almost up until just before WWII. Those Brits are reluctant to change. The value of a JAR is equal to $\frac{1}{2} \times 10$ to the minus 8F or about 1.1nF. Therefore, 1.0uF would equal about 900 JARS.

Also, a JAR = 1,000 cm. Now how the heck does a centimeter relate to capacitance? Well, early physicists determined that one cm = the capacitance of a one cm diameter sphere in free space. In the electrostatic system a charged body has unit capacity if its potential is one ESU of potential when it is given a charge of one ESU. The unit is called the centimeter.

More trivia: The Leyden jar is certainly the original capacitor and Pieter van Musschenbroek in Leiden, Holland, invented it around 1725. In Dutch it would be a "Leidsche flesch" or a bottle from Leiden.

Nowadays we just want to keep our capacitors from leaking, shorting or changing value and be thankful that they can be made smaller than the original Leyden jar devices

(A version of this article also appeared in "The Jersey Broadcaster," the Newsletter of the New Jersey Antique Radio Club, March 2007.)

From Ludwell Sibley

Regarding Tom Stevens's article on his British variable capacitor in your September issue: the "JAR" (think "Leyden jar") was a unit of capacitance in early British wireless use. One JAR equals 0.001111 microfarad or 1111 picofarads.

The 1931 issue of the *Admiralty Handbook of Wireless Telegraphy* says, "The JAR is the Service unit" [as opposed to the farad] "and is very useful when dealing with the small capacities met with in ordinary wireless practice." The 1938 issue is less friendly: "The JAR is now obsolete as the Service unit, having been replaced by the farad and its sub-multiples."

The dial on Stevens's capacitor seems to be calibrated from 0.0 to 1.0 JAR (in British printing practice, decimal points were sometimes raised above the line). A maximum capacitance of 1111 picofarads is believable, given the size of the unit.

A nice collectible!

(Ludwell Sibley, 182 McDonough Rd., Gold Hill, OR 97525)

From Andy Emmerson

The September issue has just arrived here in England and is a most welcome read, as always.

You may have had comments already, but on page 9, Tom Stevens is puzzled by the marking "JARS" on a variable condenser and assumes it is the manufacturer's name. In fact, it is the measure of units. This is a British Admiralty W/T (wireless telegraphy) item and, as late as World War II, they measured capacitors not in microfarads but in JARS ("jar" as in "Leyden jar"). This was idiosyncratic, but they insisted on doing it this way!

See www.metricationmatters.com/nm-newsletter-2005-01.html, which says, "The Admiralty defined the practical unit of electrical capacitance until the mid-1930s as a standard Admiralty glass pint tankard covered with tinfoil as the outside electrode, and filled with brine as the inside electrode. This container was said to have a capacitance of exactly one JAR. These days electrical capacitance is measured by the farad, named after the English scientist Michael Faraday. For the technically minded, 1 microfarad is approximately equal to 500 JARS; so, 1 farad of electrical capacity would fill 900 million standard British Admiralty glass tankards — "Yo, ho, ho, me hearties, and splice the mainbrace."

(Andy Emmerson, 71 Falcutt Way, Northampton G8PTH, England)

RESTORATION TOPICS

Mysteries of a Trans-Oceanic R7000-2

BY JERRY WIELAND

Troubleshooting high noise and oscillation problems in a radio is always a challenge. Jerry Wieland describes how he cured the problems in his Zenith solid-state portable radio. (Editor)

From the day I bought the Zenith Trans-Oceanic R7000-2, it seemed to have a higher than normal noise level on the shortwave bands. The problem was worse at the higher frequencies, and above 15 MHz, oscillation occurred at various frequencies. The R7000-2, shown in Figure 1, was the last of the Trans-Oceanics manufactured in the early 1980s

I finally decided to see if I could do something about this annoying problem. I searched and found a service manual at the Nostalgiaair website: www.transoceanic.nostalgiaair.org.

THE FIRST-ROUND SEARCH

Armed with this information, I removed the chassis and began poking around. Figure 2 shows a



Figure 1. A front view of the Zenith Model R7000 solid-state Trans-Oceanic.

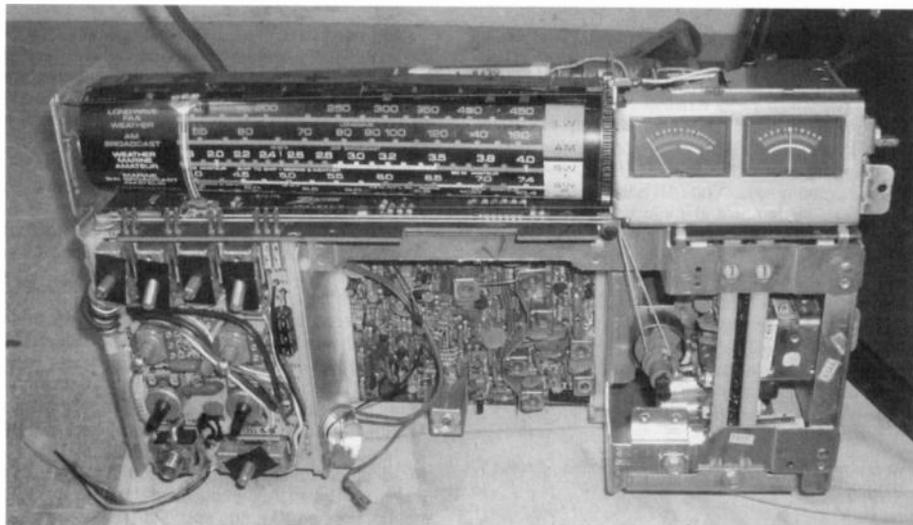


Figure 2. Out of its case, the works of the Model R7000 are revealed.

view of the exposed chassis. I tuned to a frequency where the oscillation was severe and constant. I tried to isolate the problem to one of the printed circuit boards by touching areas of the boards to see if the oscillation changed. This low tech method revealed that the IF board, shown in Figure 3, was sensitive.

I consulted the shortwave IF schematic, plus the component location diagram. A particularly sensitive area appeared around the FM IF amplifier transistor Q201. The FM and shortwave share a common 10.7 MHz IF. However, the shortwave IF is tapped off at the input to Q201, which drives the FM discriminator. Shunting a few capacitors around Q201 did not help the situation.

Since the FM section of the radio worked well, it was not obvious which component could be causing the oscillation. I noticed from the schematic that Q201 has power applied to it when in the shortwave mode even though it is not required for shortwave operation. To determine if Q201 was causing the noise problem, I lifted one end of a resistor (R216) supplying power to this stage. The noise disappeared. I resoldered the resistor, taking care not to lift the PC board plating with too much heat. The problem returned.

THE SECOND-ROUND SEARCH

Next, I consulted the schematic again to see why this transistor is live in the shortwave mode. The only other circuit on the IF board connected to this supply voltage is the squelch. Although squelch is not used for shortwave reception, the R7000 also can tune the citizen's band 2-way channels, and squelch is often used there.

Since I don't care if the squelch is active in this mode, I searched for a way to disable the squelch/FM supply line on the IF board in the shortwave mode. I found a diode (D969) on the schematic that if disconnected would accomplish this. It is located on the interconnect board that the IF board plugs into.

D969 is positioned under the tuning dial cylinder making it difficult to access. I decided to cut the plating to one side of the diode instead.

While I was searching for this diode on the interconnect board, a painted logo under the tuning dial cylinder caught my eye. See Figure 4. It is the Motorola emblem — a circle around a stylized "M." Why would this logo be on a Zenith PC board? I sent an e-mail query to the Motorola archives and received a reply stating that they have no clue.

My R7000-2 now works well on all bands. The squelch still operates on the VHF Air and VHF high bands. A problem may still exist that caused the FM IF to oscillate, but I risk destroying the PC board if I unsolder more parts trying to locate it. Disabling the squelch in the shortwave mode was a good compromise.

If others have had this problem, I would like to know

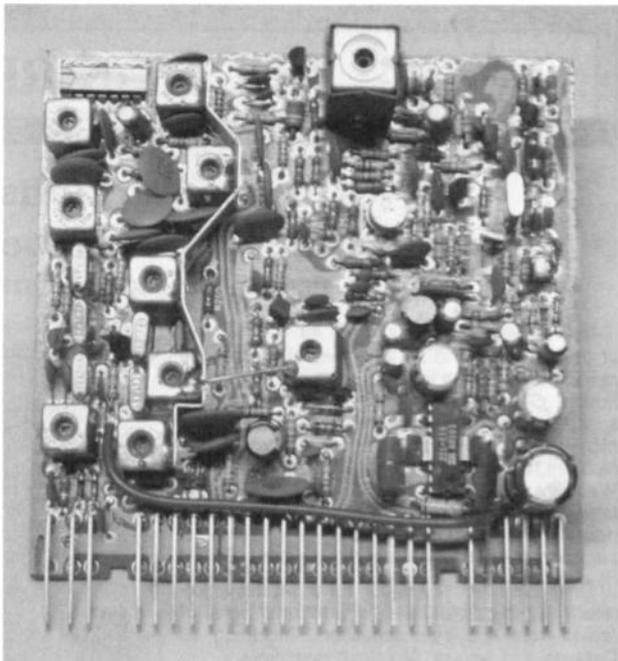


Figure 3. The IF board that was identified as the source of the oscillation problem.

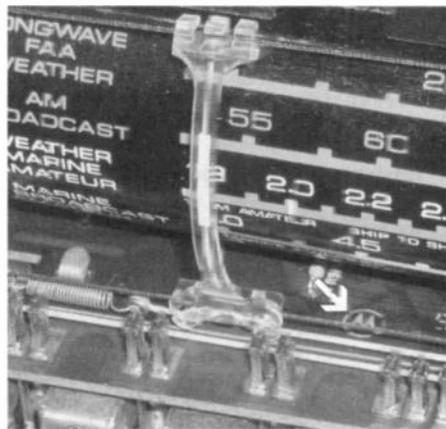


Figure 4. The mysterious Motorola symbol on a PC board (see arrow).

how they solved it.

As for the Motorola logo on the interconnect board, it is a mystery. I hope someone can shed some light on that too.

(Jerry Wieland, 780 Charleston Ln., Hoffman Estates, IL 60195. E-mail: jeromewieland@comcast.net)

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



AUCTION REPORT

Estes Auctions Seville, Ohio — November 18, 2006

REPORTED BY RICHARD ESTES

Unfortunately, A.R.C. did not have a reporter at this auction, and so we have extracted this report from information furnished by the auction house. Often, the condition of the radios and specific model numbers were not tabulated, and high resolution photos were not available. (The pictures here are taken from the Estes Auctions Web Site and are of low resolution.) However, in order to have as complete a record of auctions as possible published in A.R.C., we present here a selection of items offered at this auction. (Editor)

On November 18, 2006, Estes Auctions offered, as was advertised, "a wonderful array of radios from a private collection," including 15 Catalins and several McIntosh amplifiers. From another collection, a Zenith Stratosphere and a Spartan Nocturne were offered.

In addition, several Atwater Kent breadboard radios and other battery sets crossed the block. Also included was the usual assortment of cathedrals, consoles, table radios, Ham gear, hi-fidelity items, phonographs, and vacuum tubes. The total number of items auctioned was 1,160, selling for proceeds of \$198,600. We have listed about 170 of the more significant items here.

BB=brass-based, TT=tipped tube, gf=good filament, WT=with tubes.

All prices have been rounded down to the dollar. Some low cost items and items in poor condition or nonspecific descriptions are omitted.

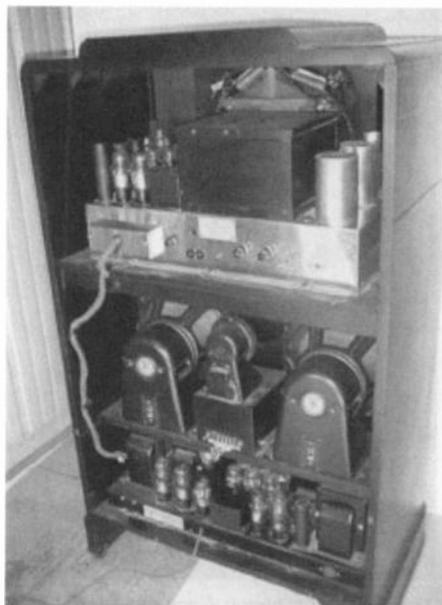
Addison B2E, blue, white grille	\$700
Air King A-650, blue, w/white grille	400
Ampliflex loop antenna	115
Apex Super 5	85
Atwater Kent 10 breadboard, 4700	850



This Zenith Stratosphere Model 1000Z sold for \$65,000.

Atwater Kent 10, Pooley breadboard	500
Atwater Kent 30	60
Atwater Kent 318 console	45
Belmont 6D111	150
Belmont 525	65
Chelsea Super 5	85
Colonial 36 cathedral	225
Colonial New World Globe radio	700
Commander Catalin, yellow	1,100
Crosley 11-121U, black	115
Crosley 51, wood panel	65
Crosley 51, WT	65
Crosley 168 console	150
Crosley L124 console	85
Crosley Pup, chip on socket	175
Crosley V	65
Denon turntable	125
Detrola "Beetle," w/nick	450
Detrola Pee Super Wee	1,600
Detrola Pee Wee, red, w/nick	400
DeWald A-501, Catalin, w/chip	320
DeWald A-501, Catalin, w/small crack	400

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



A rear view of the Zenith Stratosphere shows a complete set of chassis and speakers.

Distantone Model B	85
Ellsworth cathedral	150
Emerson 548, brown	85
Emerson Catalin, small "cathedral"	3,700
Emerson Catalin, small "cathedral," green	2,300
Emerson Catalin, small "cathedral," green	2,800
Emerson Catalin, small "cathedral," yellow ...	2,300
Emerson Catalin, pistachio green	1,000
Emerson Catalin, red	2,200
Emerson corner bookcase console	250
Emerson oriental motif radio	500
Emerson Patriot	700
Emerson Patriot, blue	700
Emerson "Strad"	450
Fada 57 Catalin, w/crack	2,000
Fada Bullet, maroon, w/crack	350
Fada Bullet, yellow and red	800
Federal 342A	30
Freed Eiseman NR-7	65
Graybar 310, WT	65
Grebe Type 7 Synchrophase	90
Hallcrafters S-107	35
Heathkit SS1B speaker	105
Hopalong Cassidy radio	400
Kenwood 700M amplifier	150
Magnavox M1 horn speaker, g driver	55
Majestic 20 grandfather clock radio	200
Majestic Melody Cruiser	400
Majestic Treasure Chest radio	225
Mathison loop antenna	150
Mayfair cathedral	175
McIntosh 60 amplifier	1,050
McIntosh 240 amplifier	1,800
McIntosh 275 amplifier	3,100
McIntosh Compensator, (2)	240, 215
Military, BC-620 backpack radio	40



This Philco Bar Radio with glassware sold for \$1,000.

Mirror Ray radio	500
Motorola 56R	80
National NC-183D, w/speaker	175
Orpheus cathedral	450
Paramount midget cathedral	425
Pepsi bottle radio, large	175
Pepsi dispenser radio	150
Philco 37-630 console	110
Philco 38 console	85
Philco 43 cathedral	200
Philco 60 cathedral	150
Philco 66 cathedral	65
Philco 70 grandfather clock radio ...	150
Philco 37-60 cathedral	100
Philco 41-285 console	45
Philco bar radio	1,000
Radiette tombstone radio	350
RCA R28 cathedral	85
RCA Radiola 26	275
RCA Radiola 66 console	40

(Continued on following page)



McIntosh 60 amplifiers are always in demand. This Model 60 with tubes sold for \$1,050.



Colorful and ornate, this Rock-Ola 1422 jukebox sold for \$900.



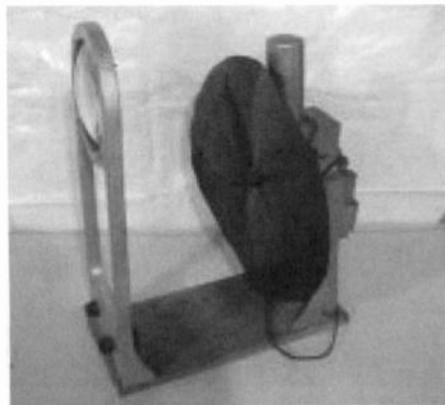
The unusual tabletop Rock-Ola Model M139 tabletop jukebox also sold for \$900.

(Estes Auction continued)

RCA Radiola Balanced Amplifier	95
RCA Radiola III	45
RCA Radiola III	75
RCA Radiola R15 console	95
RCA Radiotron UV202, BB, TT, gf	55
Reco-Kut Deluxe turntable	195
Scanning disk TV	1,500
Scott, E.H., Allwave 23	750
Scott, E.H., Philharmonic	8,000
Scott, H.H., 130 preamplifier	325
Scott, H.H., A46 stereo amplifier	45
Scott, H.H., stereo tuner	375
Sentinel book radio	150
Silvertone 640B	65
Sparton "sleigh," blue mirror	1,300



An example of the Sparton Blue Mirror "Sleigh" radios.



This early TV scanning disk sold for \$1,500.

Sparton "sleigh," peach, as is	2,100
Sparton "sleigh," peach, as is	2,600
Sparton 301 Equasonne console	275
Sparton Bluebird blue-mirror radio, no feet	1,300
Sparton Nocturne, w/new mirror	27,500
Stewart-Warner "dancing ladies" speaker	105
Stewart-Warner 535 console	300
Stewart-Warner R1261A	200
Telechron blue mirror clock	150
Touradyne 4-tube radio	55
Troy Model 5 cobalt mirrored radio	2,600
Ward's La France console	700
Zenith 5S318	170
Zenith 6G511	55
Zenith 6S152	150
Zenith 6S152 console	100
Zenith 8S463 console	175
Zenith 10S130 tombstone	1,400
Zenith 10S567 console	115



This Fada Bullet in yellow Catalin with red accents sold for \$800.



One of two DeWald A-501 sets sold in the auction.



Shown above are two of the Emerson Catalin sets in the auction. Unfortunately, the auction results furnished to A.R.C. listed only prices, not model numbers, for the Emerson Catalin sets.

Zenith 12S568	135
Zenith 52 console	75
Zenith 3000-1 Trans-Oceanic	90
Zenith H500 Trans-Oceanic	65
Zenith Royal transistor radio	85
Zenith Stratosphere 1000Z	65,000

Phonographs & Related Items

Columbia Graphophone	375
Cylinder recordings, (19)	20
Cylinder recordings, (19)	85
Edison cylinders, (3)	45
Standard Type A	350
Victor Model IV	125
Victor Type 2	750

Jukeboxes & Related Items:

Rock-Ola jukebox	900
Rock-Ola tabletop jukebox	900
Seeburg teardrop jukebox speaker	150

Crystal Sets:

Lambert crystal set	75
Mengel MR101 crystal set	125

Tubes:

01-A, blue, display, (3)	25
01-A, GF, (8)	55
01-A, globe, German	30
01-A, globe, gf, (15)	90
01-A, in box, gf, (3)	35
01-A, tested g, (10)	65
6L6, (4)	17
6L6G, gf, (4)	40

6L6G, new, (4)	85
27, globe, (10)	45
30, globe, gf, (2)	20
41, (7)	5
43, N.I.B., (6)	40
45, tested g, (4)	35
47, tested g, (2)	7
71A, globe, gf, (5)	45
80, gf, globe, (2)	20
805, gf, (3)	35
Cunningham 71A, tested g, (2)	40
DeForest 401-A, N.I.B.	20
Eveready 201-A, globe, N.I.B.	20
Kardon C585, mesh plate, tested g	145
KT88, (2)	165
Meyers tube, w/base	40
Philco 49, (2)	15
RCA 2A3, tested g	50
RCA 8417	5
Sylvania 10Y, tested g	20
United Electronics 841WS, (2)	230
UV-200, frosted, gf, (2)	35
UV-99, gf, (5)	30
UX-99, gf, (5)	25
WD-11, BB, TT, gf	25
WE 348A, (3)	80

(Estes Auctions, 7404 Ryan Rd , Medina, OH 44256; (888) 769-4992; Estesauctions@aol.com)



A.R.C. RATES & POLICIES

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MAILING OF ISSUES. U.S. subscribers can receive A.R.C. by First Class or Periodicals mail (Periodicals is the way most magazines are mailed). The mailing of First Class copies is staggered with faraway copies mailed before local copies. Non-U.S. copies are mailed on the first day. Periodicals copies are mailed on the last day. Mailing dates change each month, but mailing is usually completed by the 27th of the month. First Class copies usually are received by the 5th of the month; copies by Periodicals mail, by the 10th.

ETHICS. No person involved in the production of A.R.C. is to act on any information in the magazine until the first delivery day after local copies are mailed.

DISCLAIMER. The publisher is not responsible for any buying and selling transactions incurred, or for any other use of the contents of this publication.

Antique Radio Classified subscription rates, frequency of publication, content, policies, size and ad details, and rates are subject to change at any time by A.R.C.

DISPLAY AND BUSINESS CARD ADS • DETAILS AND RATES

The deadline is the first of the month for display and business card ad artwork, payment and repeat requests.

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

Advertising must be prepaid, except as noted below; see "Payment" paragraph above for details. Late ads will be run only if space and time permit. Originals must be the artwork size listed below. Send all artwork on disk or ask us to typeset it for you. Do not send in artwork on art board or send negatives. Please call for instructions on how to send your electronic ad. If used, reverse type must be limited to 25% of the ad. If you want us to prepare your ad, include the one-time cost below for A.R.C. to make up the ad.

Add \$16.00 per photo for screening unless part of an existing electronic ad. Do not cut or trim photos or glue photos to artwork; submit separately.

If you are confused by these requirements and terms, please

contact A.R.C. before beginning to prepare your ad. We will be happy to advise you on your ad ideas, estimate how much the ad will cost, recommend an ad size, etc.

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

First business card per advertiser is at lower rate.

The 3-month rates represent about an 11% discount, the 6-month rates 23%, the 12-month rates 30%. Placement requests: add 15% but call first. Clubs: write for discount policy.

Page	ARTWORK SIZE (SEND IN THIS SIZE)		As Printed (size in magazine)		Cost for 1-month	Cost for 3-months	Cost for 6-months*	Cost for 12-months**	One Time to make up Ad
	H x W (inches)	H x W (inches)	H x W (inches)	H x W (inches)					
Full	7 3/4 x 4 3/4	7 3/4 x 4 3/4	7 3/4 x 4 3/4	7 3/4 x 4 3/4	\$289.00	\$769.00	\$1329.00*	\$2325.00**	\$69.00†
1/2 H	3 5/16 x 4 3/4	3 5/16 x 4 3/4	3 5/16 x 4 3/4	3 5/16 x 4 3/4	146.00	389.00	675.00*	1175.00**	37.00†
1/2 V	7 3/4 x 2 1/4	7 3/4 x 2 1/4	7 3/4 x 2 1/4	7 3/4 x 2 1/4	146.00	389.00	675.00*	1175.00**	37.00†
1/4	3 5/16 x 2 1/4	3 5/16 x 2 1/4	3 5/16 x 2 1/4	3 5/16 x 2 1/4	74.00	197.00	342.00	595.00	19.00†
1/8	1 5/8 x 2 1/4	1 5/8 x 2 1/4	1 5/8 x 2 1/4	1 5/8 x 2 1/4	38.00	101.00	177.00	305.00	9.00†
Business Card (1st)	2 x 3 3/4	1 1/4 x 2 3/8	1 1/4 x 2 3/8	1 1/4 x 2 3/8	not avail.	53.00	90.00	159.00	7.00†
Business Card (2nd...)	2 x 3 3/4	1 1/4 x 2 3/8	1 1/4 x 2 3/8	1 1/4 x 2 3/8	not avail.	68.00	118.00	205.00	7.00†

* Full & 1/2 page, 6-mos.; 1/2 due with order; 1/2 due in 3 mos. ** Full & 1/2 page, 12-mos.; 1/4 due with order; 1/4 due at 3, 6 & 9 mos.

† For 6 and 12 month ads, no ad make-up charge if no change is made to ad for entire run.

E-mail: arc@antiqueradio.com

Web: www.antiqueradio.com



A.R.C. RATES & POLICIES



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

Faxed & e-mailed ads: Please see additional information on opposite page.

When including ads with other A.R.C. correspondence, write the ads on a separate piece of paper. Include SUB# with ad. Ads may be sent in advance; but, write each ad on a separate piece of paper and indicate the month (or successive months up to your subscription expiration; 12-months, maximum) you want the ad to run.

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

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

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

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

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

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

Classified Ad Rates per Month

Deadline: NOON ET- 10th of the month!

Subscribers:

- First 20 words: **FREE***
- 29¢ per word for extra words over 20 plus
- 10¢ per word for a shaded ad (count all words including free words).

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

Non-Subscribers:

- 47¢ per word plus
- 10¢ per word for shaded ad.

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

PHOTO & DRAWING DETAILS

Deadline: 1st of the month
for all ads with drawings or photos!

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

Photo and Drawing Rates per Month

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

CHANGES & CANCELLATIONS

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

IMPORTANT — COUNTING WORDS — IMPORTANT

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



FOR SALE: (2) Scott radios complete in cabinets. Zenith 6B164 6V working, very rare. Guild teakettle – \$50. Jewel box Emerson 570 – \$50. Motorola Art Deco 53H brilliant red, excellent. Green Philco Art Deco, white grille, twin speakers, excellent. Grunow 500, beautiful chrome grille set, looks like new. Radiola III w/ 2 WD11 tubes, looks like new. Admiral beetle, 6 tubes, white, big dial w/multi colored spots. Philco 53-562 beautiful orange red, has big dial. Some items may be available from last month's ad. Everything reasonably priced. Please call w/offers. Bill Kalcik, Meadowbrook Resort, 1533 River Rd., Wisconsin Dells, WI 53965. (608) 253-955 CST

FOR SALE: Motorola transistor radio M-X31N leather case, no tabs, broken, as sold, clean – \$45. Philco 54C, original except it needs a top, yes? with the tubes – \$40. Book: Everyman's Guide to Radio, 1926-27 by Popular Radio, 175 pp., no dog ears – \$25. Big Broadcast 1920 to 1950 paperback, 1973, 300 pp. – \$8. Bernie Samek, 113 Old Palmer Rd., Brimfield, MA 01010. (413) 245-7174. E-mail: bernies@samnet.net

FOR SALE: Zenith 9S262, nice shape, needs tiny knob, complete and solid – \$550. Zenith 411 console – \$350. 10S464, complete, solid, clean, as found – \$150. 10S567, for restoration or parts – \$100. Atwater Kent Red Lion desk radio (nice shape, has Model 30 chassis, Atwater Kent consoles with Type L, 55C and 60 Type chassis and many parts for them, inquire. Atwater Kent metal box late 1920s type radios with Type E and E2 speakers and parts for them, inquire, AK Model 20 big box no tubes, missing badge – \$75. AK 30, same size as Model 20 small box – \$150. Philco cathedrals: 18, 20, 20 DeLuxe, 60, several versions, 89, 90 project – \$175. 91, others. Philco consoles: 15, 95/96, 38-1, parts, many others and parts for them, inquire. Sentinel radio/phonograph console Model 1040, 1930s, w/small metal dial escutcheon, shadowdial, w/rectangular escutcheon, 6 original wood knobs, lever bandswitch, scrolled grille cutouts, 40 inches tall, 13 inches deep and only 24 inches across, flip open top for phonograph, nice shape – \$450. Huge Radiola 30, like giant sideboard, cabinet about 5 feet across and it's about 3 1/2 feet tall, inquire. I have many more consoles and table radios for restoration or parts, send me your want list. I don't want to ship the large radios, they can be picked up here at my house or I can deliver consoles in the Scranton, PA area or to area swap meets or reasonable distances, inquire. Contact: Wilbur Gilroy, PO Box 459, Lake Winola, PA 18625. (570) 378-2508. E-mail: radiowilbur@aol.com

FOR SALE: Surplus liquidation of radios, tubes, CB accessories, equipment, phonographs, needles, parts. Ray Seppeler, Sunshine Radio Museum, 8 E. Main St., Sodus, NY 14551. (315) 483-8451. Web: <http://www.sunrad.com/bargainlots/>

FOR SALE: Original new Philco plastic radio dial Model 37-60 #27-5196 and #27-7343-A – \$15 ea. plus \$4 postage. John Snow, 1910 Remington Ct., Andover, KS 67002. (316) 733-1856

FOR SALE: Atwater Kent dual speed tuner repair kit, complete details at www.adamsradio.com. Adams Manufacturing Co., PO Box 1005, Lincoln Park, MI 48146

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 • A.R.C. Advertising Policy
 • Sellers and Buyers, Please Note!
 • Advertising is accepted only for early items
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 • tions, reprints and not-original items must be
 • so identified. Advertisers must agree to re-
 • spond promptly to inquiries and orders, to
 • resolve problems promptly if the buyer is not
 • satisfied, and to comply with a buyer's
 • refund request on unaltered returned items.
 •

FOR SALE: Go to our website at gn4radios for an extensive listing of items for sale. For an up to the minute update, call (612) 727-2489 during business hours. We offer the highest quality electrical restoration for Zenith Trans-Oceanics and all other vintage radios, including the solid state TOs. New: Spectacular original condition Admiral 909B Trans-Oceanic clone; S type excellent repro Scott knobs. Scott Philharmonic Waverly Grande; Scott 16 Wilshire. We are the largest retailer of E.H. Scott radios with 7 excellent examples on our showroom floor at this time. Call for details. Zeniths: Super rare 15U246 McDonald Chairside; 12S245 McDonald chairside, mint condition; 15U271; 12U159 and many others. Trans-Oceanics: 7G605; R7000 and all of the others. RCAs: 10T tombstone; 128, 816K. Also many other fine brands for sale. restoration supplies. Request our free catalog. Visiting Minneapolis? We have the finest vintage radio showroom in the country with over 50 exceptional consoles on the floor, and shelves and shelves of table models. Experience our store, Great Northern Vintage Radios, just 5 minutes from the airport. We ship consoles and we do it right. We accept cash, check, money orders, plastic and Paypal. Alan Jesperson, PO Box 17338, Minneapolis MN 55417. (612) 727-2489. 11 am - 4:30 pm, Tuesday-Friday, Saturday 10-3. Fax during business hours (612) 821-4820. E-mail: alan@alanjesperson.com and mte612@aol.com

FOR SALE: 1946 Model 540A Emerson, works, brown, case repaired – \$180 shipped. Fielding Grigsby, PO Box 2601, Ardmore, OK 73402. (580) 222-9408

FOR SALE: Huge Bozak B-410, Weco 92 300A amp, Weco 274, 300B, 350B, 205 tubes. V. Vogt, 2311 Pimmit Dr. #114, Falls Church, VA 22043. (206) 898-0880. E-mail: archaicaudio@msn.com

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



WANTED: Fada Catalin radios. Help! My entire collection spontaneously combusted during an interview with the "Enquirer." Replenish and repent ye sinners. Please write or call collect: Rain Buttignol, 192 Newcastle Ave., Portsmouth, NH 03801. (603) 828-7823

WANTED: Glassware: Porto Baradio PA510/PB520. Zenith 7G605 junker chassis & cabinet. Ye Olde Radio Shoppe, 228 Beck Rd., Avon Lake, OH 44012. (440) 933-5668. Fax: (440) 933-8864. E-mail: yeolderadioshoppe@oh.rr.com

WANTED: Crosley Model 1516 console meter and manual for Eico 710 grid dip meter. Clem Patrick, 14511 Highway 200 NE, Portland, ND 58274-9434. (701) 786-4003, eves.

WANTED: Dial escutcheon for Philco 19 or 89 with shadow meter. Brian Sargeant, 428 Basket Rd., Webster, NY 14580. (585) 305-1982

WANTED: 1965 Lafayette catalog. Tubes: 0Z4, 12AL8, 5814, 6189, 6680. DBX 128 Expander. Alan J. Kriss, 416 Norris Brook Rd., Middlebury Center, PA 16935. (570) 376-3952

WANTED: Tuning dial for Kennedy Model 5, or parts set; Philco Model 51 complete parts set. Mark Detgen, 1700 N. 5th St., Springfield, IL 62702. (217) 527-8119

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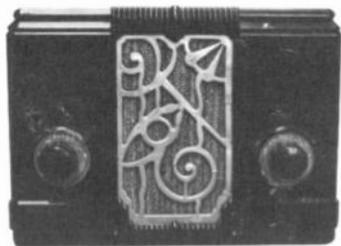
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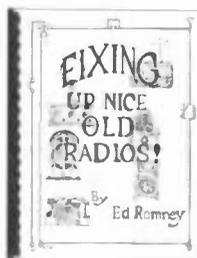
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FOR SALE: 1950s Gonet FM converter for AM auto radio. Includes original manual – \$75. USP packing and shipping extra. Call: Ray Rose, 1319 Haddington Ct., Palatine, IL 60067. (847) 359-8391, before 8 pm CST



FOR SALE: Hey! Quality reprints of antique radio literature: Atwater Kent breadboard warranty tags – \$5. Atwater Kent breadboard Model number tags – \$5. Atwater Kent Model 10 (4340) operating instructions – \$10. Atwater Kent Model 37 folder – \$4. Atwater Kent radio log-in card – \$3. Atwater Kent breadboard components, 12 pp. – \$15. Atwater Kent det/amp instruction card – \$5. Atwater Kent ignition system (autos) – \$7. Amrad 2575 crystal set folder, 4 pp. – \$8. Clapp-Eastham Radak DD lid cover instructions – \$5. Crosley Trirdyn, or Model 51 or Model 51-S operating instructions, 8 pp. – \$10. Crosley Pup bottom cover tag – \$4. Crosley Model 51 lid tags – \$5. DeForest Type DT-700 cover lid instructions – \$6. Grebe sales folder, 12 pgs. for CR models – \$12. Grebe paper patent licence tag – \$3. Kenrad crystal set instruction folder – \$6. Magnavox horn speaker/amplifier color folder – \$6. Zenith 3-R & 4-R instruction folder (14 pgs.) – \$10. Zenith 1-R & 2-M rear inside lid instruction cards – \$4 ea. Amplion Dragonfly horn reproducer replacement card, round – \$5. Westinghouse Aeriola Sr. cover lid paper – \$6. Westinghouse Aeriola Sr. amplifier cover lid paper – \$6. Hurry, before I'm all out! Dave Crocker, 35 Santuit Pond Rd., #4B, Mashpee, MA 02649. (508) 477-1578, before 9 pm

WANTED: Schematic and calibration information for B&K VTVM Model 177V-95. Norman Reiss, 360 South St. West, Deer Park, WI 54007. (715) 269-5473

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WANTED: General Electric J-64 wood AM/SW table set, 4 knobs pushbuttons, curved left side speaker grille. Patrick Franzis, 235 Millville Ave., Naugatuck, CT 06770-3848. (203) 723-8976. E-mail: old_radios@yahoo.com

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WANTED: Silvertone 6-tube, wood, eye, chassis 101.17, 6 x 5 rectifier. Carl G. Davis, 121 N. Scott St., Westville, IL 61883-1425

WANTED: 1745 Silvertone tombstone wood, step down top, round dial five knobs. Call: Don Marissen, 124 E. North St., Danforth, IL 60930. (815) 269-2480, leave message

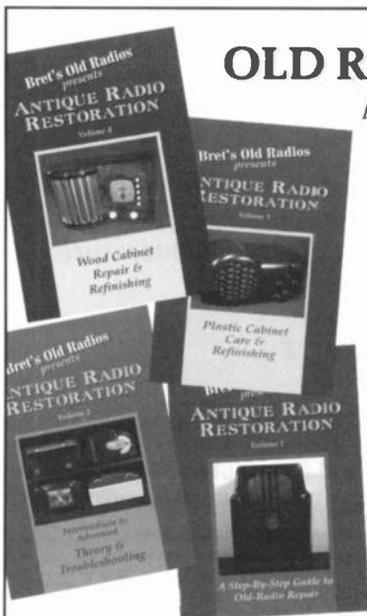


WANTED: Air King Skyscraper radios, except for that unbearably ugly model with the third (tuning) eye at the top that bears better resemblance to a flounder than to the face of a building. Please write or call collect: Rain Buttignol, 192 Newcastle Ave., Portsmouth, NH 03801. (603) 828-7823

WANTED: Guitars/amps/effects pedals Vox, Selmer, Marshall, Gibson, Fender, Gretsch, Ricken Backer, FuzzFace, Cry Baby, Electro Harmonix, etc. Sonny Goldson, 520 Pocahontas Dr., Ft. Walton Beach, FL 32547. (850) 314-0321. Fax: 0824. E-mail: SonnySound@aol.com

WANTED: Riders manuals Vol. 1; Vol. 10; Vol. 22; Vol. 23, give condition and price. John Snow, 1910 Remington Ct., Andover, KS 67002. (316) 733-1853

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FOR SALE: Brunswick 1930 radio works - \$300 pick up only. Rich Blanchard, 2621 Alta Vista, Newport Beach, CA 92660. E-mail: artboyrich@sbcglobal.net

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WANTED: Parts for SCR-178: Insulator IN-85, insulator side mounts, GN-37 generator, lamp LM-18. Rob Forte, PO Box 160, Lake Luzerne, NY 12846. (518) 696-2400

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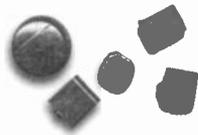
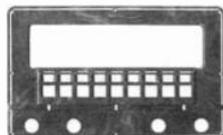
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E-mail:

exceptionalradios@triad.rr.com

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Quality marbled repros. **For 1941 models:**

Escutcheon \$29.95. Knobs, set of four \$20.

Pushbuttons, set of eight \$16 your choice opaque brown or non-marbled translucent wine red.

For 1942 models: Escutcheon with gold trim as per original \$32.95. Knobs, set of four \$20.

Pushbuttons, set of nine \$31.50. Money order gets immediate shipment. Add \$5 s&h. Calif. residents add 8.25% sales tax. **Old Time Replications**, 5744 Tobias Avenue, Van Nuys, CA 91411. Phone (818) 786-2500. Email oldtimerep@aol.com

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

WANTED: Film movie dial for a 1938 Montgomery Ward radio Model 62-293. Most models will fit. Ray A. Trujillo, 23 Garden Park Cir. NW, Albuquerque, NM 87107. (505) 344-7858

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WANTED: Supreme Audolyzer Model 562 test instrument. Al Payne, 670 Southwood Dr., Uniontown, OH 44685. (330) 896-0008. E-mail: paynemd@prodigy.net

WANTED: McGohan WA330A amplifier. Altec, JBL, Marantz, McIntosh, Western Electric, RCA, Tannoy. Sean Brady, 3202 N. Manor Dr. W, Phoenix, AZ 85014. (602) 284-7000. E-mail: rosemanor@cox.net

WANTED: Finders fee of \$50 to anyone who puts me in touch with an owner of a Sterling Model R-517 tube tester. Photo of instrument proof. Charles Kirsten, 7626 Cloudy Bay Ct., Rancho Cucamonga, CA 91739. (909) 803-2447



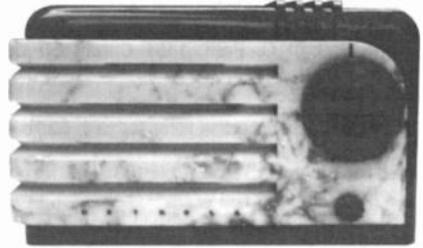
WANTED: Motorola Catalin #'s 50XC, 51X15, and 52, as complete or "parts" sets. I am a very serious collector seriously looking for serious stuff (leaving all kidding aside, of course)! Please write or call collect: Rair Buttignol, 192 Newcastle Ave., Portsmouth, NH 03801. (603) 828-7823

WANTED: Pre-1925 Zenith and Chicago Radio Laboratories. I pay top dollar. Scott Morton, 3011 Hudson, Erie, PA 16508. E-mail: mrzenith@aol.com

WANTED: N.O.S. Delco auto radio parts, must be in original box. Hans Kleeman, 1070 Riviera Ave., Banning, CA 92220. (951) 845-4222

WANTED: Tubes, tube testers, and Western Electric tubes from estates, shops, or collectors. Jeff Amdt, 4021 S. Parker Way, DePere, WI 54115. (920) 323-6789

WANTED: Arvin tombstone 417 Rhyth n Baby. Top cash for correct, working unit. Howard Worley, 116 S. Butler St., Saxonburg, PA 16056. (724) 352-4151. E-mail: w3hww@arrl.net



WANTED: More prewar plastics by Detrola, RCA, Kadette, Air King, et al. Take all my money before the relatives do. They are trying to hurry my already imminent demise. Please write or call collect: Rair Buttignol, 192 Newcastle Ave., Portsmouth, NH 03801. (603) 828-7823

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SEND US YOUR...
OLD ADDRESS
NEW ADDRESS and
SUB #
MANY THANKS!!!!**

WANTED: Broadcast microphones. Early carbon, condenser, ribbons, etc. James Steele, PO Box 610, Kingsland, GA 31548-0620. (912) 723-2242. E-mail: JSteele@k-bay106.com. Microphone collectors website: <http://www.k-bay106.com/mics.htm>



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SPRINGVALE, ME 04083**

TEL: 207-490-5870
FAX: 207-490-2223

Visit or contact us via our web site at:
<http://members.aol.com/etubes>

FOR SALE: The following consoles for pick up only: Wilcox-Gay Model A-82 Recordio with microphone - \$95. Crosley Model 1127 eleven tubes - \$85. Radiola 28, very solid cabinet - \$125. Silvertone 4587, eleven tubes, big round dial - \$110. Also Peerless cathedral shaped acc. speaker, veneer is good - \$65 plus shipping. Carleton min. 5 tuber in good plastic cab. - \$35 plus shipping. Robert C. Pote, 1181 Crestwood Dr., Greenwood, IN 46143. (317) 881-5721. E-mail: mrzenith41@aol.com

FOR SALE: Radio collection items for sale: Radio 44 WT, works, vg; Radiola 60; Philco 514 WT and spkr, painted flower chassis, red; Radiola 103 spkrs, (2) qty., works; Radiola 25, vg; Tri-City radio Model W-4; Philco 40-190 console WT, works; Radiola 20, works, exc; Radiola 21, cabinet only, no chassis; Freed-Eisemann NR5, exc; Freed-Eisemann spkr Model 14; Radiola II, no earphone or lid; ceramic Temple spkr; Radiola 100-A spkr, cloth torn; Westinghouse Model H161; RCA Radiola 18, fair; RCA Victor tombstone 5T WT; Freshman Masterpiece, exc; AK Model 20WT, exc; Crosley Trirdyne WT, mint; qty. (3) variable inductors; National SW-54 WT; Radiola 33, rough; RCA R17-M, works; AK big box for parts; exc Radiola IV cabinet - install chassis/horn/WT (299As), need diaphragm (you assemble and wire Radiola IV). Call or write. W. Boyd, 74 Atsion Ct., Medford, NJ 08055. (609) 654-0299. Please pickup if possible

FOR SALE: RCA tube manuals; RCA-13 - \$20; RCA-14 - \$15; RCA-15, 16, 17 - \$12 ea. RCA-23, 24, 26, 30 - \$10 ea. plus shipping. John Snow, 1910 Remington Ct., Andover, KS 67002. (316) 733-1856

FOR SALE: Majestic Model 20 (needs speaker) 1932, g - \$85. Hallicrafters SW #S-120, vg - \$85. Zenith L507, vg - \$60. Pooley phonograph #723387, plays vg - \$200. Gilbert Simpson, 18 Beechwood Dr., Ansonia, CT 06401. (203) 734-4055

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June '84 to Sept. '86: Photocopies available
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FOR SALE: Motorola 56X1 and 56X2 - \$45 ea. Garrard turntable RC 88/4 - \$45. Motorola 61X12 - \$15. Paul Lisowski, 5603 E. 100 N, Knox, IN 46534. (574) 772-2021

FOR SALE: All radios have been restored or are in original condition. Crosley Victory 63TA - \$125. Silvertone 4500, first plastic radio, original black - \$125. Philco 60 - \$150. Zenith 6D315, no cracks - \$175. German people's radio, 1938, VE301DYN, all emblems, no cracks. Emerson 7443 green & black, original - \$225. Philco 84B - \$150. Call for details. Bruce Ralg, 6015 19th St. N, Apt. 104, St. Petersburg, FL 33714. (727) 526-4340

— WANTED —

CLUB CONTACT INFORMATION. A.R.C. IS UPDATING ITS CLUB LIST. PLEASE SEND US NAME OF CONTACT PERSON, ADDRESS, DUES, RATES, ETC.

FOR SALE: Crosley small tombstone Fiver 5M3 with tubes, good wood & veneer, untested - \$150 + ship. Frank Vaillancourt, 292 Pike Rd., Marshfield, VT 05658. (802) 426-3509

FOR SALE: 1970s Heathkit portable color TV. **WANTED:** Antique auto radio signs & garage equipment. TCM, PO Box 363, Rotterdam Junction, NY 12150. E-mail: dkvean@capital.net

FOR SALE: Hickok Model 235A field strength meter, very good condition. More info & pictures. Irv Sanders, 242 Hunter Ln., Harrisburg, PA 17112. E-mail: radioirv@verizon.net

FOR SALE: Many hundreds collectible electronics. Come or send \$1.09 LSASE for 42-page list. John R. Enigl, Sr., 5425 Tart Cherry Ln., Egg Harbor, WI 54209. (920) 743-3672

FOR SALE: Electro-Voice speaker, Sencore PS148 oscilloscope, Standard signal generator, VOM, Harman Kardon stereo receivers - Make Offer. Peter Vitere, PO Box 1035, Pelham, NY 10803. (914) 738-4754

FOR SALE: Scotts: Allwave 15 w/PS and SP in Tasman cabinet; Allwave 12 2-dial w/PS, SP and coils in early Tasman cabinet; Laureate w/PS and SP in Sheraton cabinet; Phantom Deluxe w/PS and SP in Braemar cabinet; Allwave 23 w/PS, SP and second chassis, no cabinet; AW 12 2-dial chassis. Peter Stratigos, 201 Sunset Ridge Rd., Willowbrook, IL 60527. (630) 734-8627. E-mail: peters7@mindspring.com

FOR SALE: All Zenith Sale #13. Trans-Oceanics: 7G605, 8G005, G-500, H-500, 600s, 1000, 3000, 7000s, 5-R-312, 7H918, T-825, Royal 94 SW - \$95. Royal 500 handwired rare translucent red call, M505, 500H, 1L6 - \$30. Battery 78-985-Z1 - \$35. Ted Demski, 5806 225 Pl. SW, Mountlake Terrace, WA 98043. (425) 778-7100. (425) 220-5261

FOR SALE: Headset. Vintage Western Electric telephone operators headset, fine condition - \$50 includes postage. Bob Barr, 9660 S.E. Little Club Way N, Tequesta, FL 33469. (561) 741-1907

FOR SALE: Items in old ads & new additions: radioexchange.net, for sale, IL, richeststequip. Richard Flaws, 212 Mondovi Dr., Oswego, IL 60543. (630) 554-9207, before 9 pm CT

SERVICES: Radio schematics – \$3 plus #10 SASE. Steve Rosenfeld, 113 Station Dr., Forked River, NJ 08731. E-mail: oceangate@comcast.net

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

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

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

CLASSIFIED AD NOTICE

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

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

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

SERVICES: Repair/replacement meters, over two hundred available prior to 1930. Ye Olde Meter Cellar, Leonard W. Cartwright, 16730 N.W. Pebble Beach Way, Beaverton, OR 97006. (503) 690-1472. E-mail: lencartwright@msn.com

SERVICES: All American Five-Tube table radio restoration special – \$49.99. 6-Tube – \$59.99. Call for details. Dave's Antique Radio and TV Restorations, 10068 Carouzel Center, Syracuse, NY 13290. (315) 457-5099. E-mail: dave2@borg.com. Web: www.borg.com/~dave2 or www.dreamscape.com/dave2/daves.htm or www.tubesandtransistorsandmore.com

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FREE: One dozen old console and coffin radio cabinets. Mostly highboy, lowboy, mostly early AC batt., one 40s console. Old speakers (six or more). You pick up. You must take all. The Museum of Antiquated Technology, Mark A. Vess, 303 High St., Hanson, MA 02341. (781) 294-1647, evs. (508) 261-8470, cays. E-mail: mark.a.vess@covidian.com

HELP: Need owner's and repair manuals and parts source for a German multiband radio Grundig Satellit Model 3400. Don Mier, 4009 N. Foxdale Ave., Covina, CA 91722-3805. (626) 338-9225

HELP: I need the front dial escutcheon for a table model 1938 Silvertone radio. This dial escutcheon was on two Models: 4667 and 4677. I will be willing to purchase a good mold or copy. Contact: Charlie Poplin, 3518 Courtland Dr., Durham, NC 27707. E-mail: popawapado1@yahoo.com

ABBREVIATIONS USED IN CLASSIFIED ADS

MISCELLANEOUS

amp = amplifier
BC = broadcast
BO = best offer
ca. = circa (approx. date)
ea. = each
F.O.B. = freight on board
IB = instruction book
LSASE = A Long SASE (see SASE)
LW = long wave
M.I.B. = mint in box
MO = money order
Mod = model
N.I.B. = new in original box
N.O.S. = new old stock (an original, unused vintage item)
NT = no tubes
OB = in original box
OBO = or best offer
P&H = postage & handling
ppd = postage paid (shipping included)
PS = power supply, also "pwr sup"
PU = pick up only
rcvr = receiver
SASE = self-addressed stamped envelope (send a long, #10, envelope)
spkr = speaker
SW = shortwave
UPS = United Parcel Service
vol. = volume
w/ = with
w/o = without
WT = with tubes
xcvr = transceiver
xfmr = transformer
xmtr = transmitter
xstr = transistor
xtal = crystal

BOOKS USED AS REFERENCES

(V.R., p 30) means *Vintage Radio*, page 30
Blast = *Radio – A Blast From The Past*
Bunis 1, 2, 3 or 4 = *Collector's Guide to Antique Radios, 1st, 2nd, 3rd or 4th Editions*
Collins = *Radios – The Golden Age*
Douglas V1, V2 or V3 = *Radio Manufacturers of the 1920s, Volumes 1, 2 or 3*
E.O.R. 1 or 2 = *Evolution of the Radio, Volumes 1 or 2*
F.O.S. = *Flick of the Switch*
Grinder/Fathauer = *Radio Collector's Directory and Price Guide*
G.O.R. = *Guide to Old Radios*
Johnson's A.R. = *Antique Radios – Restoration & Price Guide*
M.A.J.A. = *Machine Age to Jet Age*
O.T.B. = *Old Timer's Bulletin* published by Antique Wireless Association (AWA)
Sidell = *Classic Plastic Radios*
V.R. = *Vintage Radio*

CONDITION

(If good or better, mention non-original parts)
p = poor
g = good
exc = excellent
f = fair
vg = very good

A.R.C. does not encourage abbreviations except those listed here. Please spell out all other words. Special note for hams – most subscribers are not hams so we do not recommend ham-type abbreviations.

• ZENITH •

THE GLORY YEARS 1936-1945

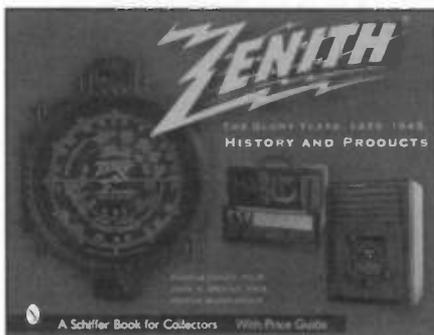
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(#34-Oct07)

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(#37-Oct07)



CALIFORNIA - Dec. 1

**CALIFORNIA HISTORICAL RADIO SOC.
SWAP MEET**

Berkeley, CA - KRE Building
601 Ashby Ave.
9 am

Info: CHRS Hotline - (415) 821-9800
www.californiahistoricalradio.com

NEW YORK - Dec. 2

**GREATER NEW YORK VINTAGE
WIRELESS ASSOCIATION
SWAP MEET & MEETING**

Seafood, NY - 3870 Sunrise Hwy.
(1/4 mile east of Seafood-Oyster Bay Expwy)
8 am - 1 pm

Info: Jim Koehler - (516) 623-0035
Rich Lee - (914) 589-3751

FLORIDA - Dec. 1

**SARASOTA ANTIQUE RADIO CLUB
WINTER SWAPMEET**

Sarasota, FL - Knights of Columbus
4880 Fruitville Rd.
8 am - 11 am

Info: Jack Warren (941) 349-4875
Dave Hurt - manager@findsales.com

W. VIRGINIA - Dec. 2

**MUSEUM OF RADIO & TECHNOLOGY
ANNUAL HOLIDAY BANQUET**

Huntington, WV - 1640 Florence Ave.
Contact for time

Info: www.mrtwv.org

OHIO - Dec. 1

**ESTES AUCTIONS
RADIO COLLECTION EXTRAVAGANZA**

Victor, NY
7263 Pittsford-Victor Road
10 am

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

OHIO - Dec. 4

**ANTIQUÉ RADIO COLLECTORS OF OHIO
MEETING**

Dayton, OH - 2929 Hazelwood Ave.
7 pm

Info: Karl Koogle - (937) 294-8960
karlkrad@genmair.com

WASHINGTON - Dec. 1

**RADIO ENTHUSIASTS OF PUGET SOUND
MEETING**

Seattle, WA - Queen Ann Library
400 W. Garfield
2 pm

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

ARKANSAS - Dec. 6

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

Fort Smith, AR - First Baptist Church
1400 Grand Ave.
7:30 pm

Info: Paul Tucker - (479) 782-8178

ILLINOIS - Dec. 2

**ANTIQUÉ RADIO CLUB OF ILLINOIS
SWAP MEET**

Carol Stream, IL - American Legion Hall
Parking Lot
7 am - 11 am

Info: www.antique-radios.org
clubinfo@vintage-radios.org

CONNECTICUT - Dec. 8

**VINTAGE RADIO & COMM. MUSEUM OF CT
INDOOR SWAP MEET**

Windsor, CT - 115 Pierson Ln.
Info: John Ellsworth - (860) 673-0518
radioclctr@aol.com

Clubs, have you set date(s) for your 2008 annual major meets/shows/conventions? Submit them now for listing in Mark Your Calendar.

OREGON - Dec. 8

NORTHWEST VINTAGE RADIO SOCIETY MEETING & TAILGATE SWAP

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

Tailgate: 8:30 am - Meeting: 10 am

Info: www.nwvrs.org

FLORIDA - Dec. 9

JACKSONVILLE ANTIQUE RADIO SOC. RADIO SHOW & SALE

Jacksonville, FL - Avonlea Antique Mall
8101 Philips Hwy.

1:00 pm - 5:00 pm

Info: Sean Olin - (904) 386-8332

www.jarsradioclub.com

NEW MEXICO - Dec. 9

NEW MEXICO RADIO COLLECTORS CLUB MEET

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

1:30 pm: Tailgate Swap Meet

2 pm: Program, Show & Tell and Auction

Info: Chuck Burch - (505) 286-9674

chuckBurch@aol.com

<http://members.aol.com/NMRCC>

WASHINGTON - Dec. 9

PUGET SOUND ANTIQUE RADIO ASSN. MEETING

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

10 am - 12 Noon: Tailgate Swap

12 Noon: Meeting, Program, Show & Tell

Info: Pete Peterson - (425) 747-1323

<http://www.eskimo.com/~hhagen/psara.html>

GEORGIA - Dec. 10

SOUTHEASTERN ANTIQUE RADIO SOC. MEETING WITH SHOW & TELL

Norcross, GA - Fire Mountain Rest.

Jimmy Carter Blvd.

6:30 pm

Info: Rich Rodgers - (678) 591-3619

www.sarsradio.com

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

MISSOURI - Dec. 11

ANTIQUÉ RADIO COLL. & HIST. OF GREATER ST. LOUIS MEETING

Kirkwood, MO - Kirkwood Comm. Ctr
111 S. Geyer Rd., Room 201-A

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

Info: Derek Cohn - (314) 725-2333

vibroplex@mindspring.com

NORTH CAROLINA - Dec. 11

EAST CAROLINA ANTIQUE RADIO CLUB MEETING

Greenville, NC - Sheppard Memorial Library
Meeting Room A, 530 Evans St.

7 pm

Info: Herman Schnur - (252) 752-2264

OHIO - Dec. 11

SOCIETY FOR THE PRESERVATION OF ANTIQUÉ RADIO KNOWLEDGE MEETING

Centerville, OH - Donatos Pizzeria
7912 Paragon Rd. • 7 pm

Info: Jeff Bothwell - (937) 854-7106

jbothwell@butlertownship.com

ONTARIO - Dec. 11

OTTAWA VINTAGE RADIO CLUB MEETING

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

7 pm

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

PENNSYLVANIA - Dec. 11

DELAWARE VALLEY HIST. RADIO CLUB MEETING - SWAP - AUCTION

Telford, PA - Telford Community Building
Hamilton & Hamlin

7:30 pm

Info: Delaware Valley Historic Radio Club

PO Box 5053, New Britain, PA 18901

www.dvhrc.org

ARKANSAS - Dec. 13

ARKANSAS ANTIQUÉ RADIO CLUB MEETING

Call for location and directions

7 pm

Info: Tom Burgess - (501) 455-0773

MARK YOUR CALENDAR

Dec. 1 - CA, Berkeley - CHRS Swap Meet
Dec. 1 - FL, Sarasota - SARC Winter Meet
Dec. 1 - NY, Victor - Estes Auctions
Dec. 1 - WA, Seattle - REPS Meeting
Dec. 2 - IL, Carol Stream - ARCI Swapmeet
Dec. 2 - NY, Seafood - GNYVWA Meeting
Dec. 2 - WV, Huntington - MRT Holiday Banquet
Dec. 4 - OH, Dayton - ARCO Meeting
Dec. 6 - AR, Fort Smith - ARCC Meeting
Dec. 8 - CT, Windsor - VRCC Meet
Dec. 8 - OR, Oregon City - NWVRS Meeting
Dec. 9 - FL, Jacksonville - JARS Show
Dec. 9 - NM, Albuquerque - NMRCC Meet
Dec. 9 - WA, Seattle - PSARA Meeting
Dec. 10 - GA, Norcross - SARS Meeting
Dec. 11 - MO, Kirkwood - ARCH Meeting
Dec. 11 - NC, Greenville - ECARC Meeting
Dec. 11 - OH, Centerville - SPARK Meeting
Dec. 11 - Ont., Ottawa - OVRC Meeting
Dec. 11 - PA, Telford - DVHRC Meeting
Dec. 13 - AR, "Call" - AARC Meeting
Dec. 14 - NJ, Princeton - NJARC Meeting
Dec. 15 - OH, Burbank - Estes Auctions
Dec. 16 - MD, Davidsonville - MAARC Meeting
Dec. 18 - CA, Shingle Springs - CHRS-Sac Mtg
Dec. 19 - Austria, Vienna - Dorotheum Auction
Dec. 19 - OH, Columbus - COARA Meeting
Dec. 19 - OH, Cincinnati - CARS Meeting
Dec. 21 - NY, Highland Falls - HARPS Meeting
Dec. 23 - NY, Schenectady - SARC Meeting

2008

Jan. 1 - OH, Dayton - ARCO Meeting
Jan. 3 - AR, Forth Smith - ARCC Meeting
Jan. 5 - WA, Seattle - REPS Meeting
Jan. 6 - NY, Seafood - GNYVWA Meeting
Jan. 8 - MO, Kirkwood - ARCH Meeting
Jan. 8 - NC, Greenville - ECARC Meeting
Jan. 8 - OH, Centerville - SPARK Meeting
Jan. 8 - PA, Telford - DVHRC Meeting
Jan. 10 - AR, "Call" - AARC Meeting
Jan. 11 - NJ, Princeton - NJARC Meeting
Jan. 12 - OK, Oklahoma City - OKVRC Meeting
Jan. 12 - OR, Oregon City - NWVRS Meeting
Jan. 13 - CO, "Call" - CRC Meeting
Jan. 13 - NM, Albuquerque - NMRCC Meet
Jan. 14 - GA, Norcross - SARS Meeting
Jan. 17 - OK, Tulsa - HLARA Meeting
Jan. 19 - OH, Burbank - Estes Auctions
Jan. 19 - TX, Kyle - TARC Meeting
Jan. 19 - TX, Irving - VRPS Meeting
Jan. 20 - MD, Davidsonville - MAARC Meeting
Jan. 20 - TN, Memphis - MARC Meeting
Jan. 20 - WA, Seattle - PSARA Meeting
Jan. 21 - FL, Jacksonville - JARS Meeting
Jan. 26 - TX, Houston - HVRA Meeting
Jan. 27 - WI, Milwaukee - WARC Meet
Jan. 28 - AL, Birmingham - AARC Meeting
Feb. 1-2 - TX, Houston - HVRA Convention
Feb. 2 - MI, Kalamazoo - MARC Meet
Feb. 9 - IN, Beech Grove - IHRS Winter Meet
Feb. 17 - MA, Westford - GBARC Radio XXXIX
Apr. 25-26 - IN, Kokomo - IHRS Spring Meet

NEW JERSEY - Dec. 14

NEW JERSEY ANTIQUE RADIO CLUB MEETING
Princeton, NJ - The David Sarnoff Library
U.S. Route 1
7:30 pm
Info: Marv Beeferman - (609) 693-9430
Phil Vourtsis - (732) 446-2427 -
www.njarc.org

OHIO - Dec. 15

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

MARYLAND - Dec. 16

MID-ATLANTIC ANTIQUE RADIO CLUB MEETING
Davidsonville, MD - Davidsonville Rec Center
3727 Queen Anne Bridge Road
Flea Market: 9 am - Auction: Noon
Info: Geoff Shearer - (703) 818-2686
www.maarc.org

CALIFORNIA - Dec. 18

CALIFORNIA HISTORICAL RADIO SOC. SACRAMENTO CHAPTER - MEETING
Shingle Springs, CA - 3755 Durock Rd.
7 pm
Info: Bob Moore - remoore@directcon.net
www.californiahistoricalradio.com

AUSTRIA - Dec. 19

AUCTIONHOUSE DOROTHEUM HISTORICAL RADIO AUCTION
A-1100 Vienna, Austria - Erlachgasse 90
2 pm
Info: (011)43-1/51 60-226
client.service@dorotheum.at
Online catalog: www.dorotheum.com

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

OHIO - Dec. 19

CENTRAL OHIO ANTIQUE RADIO ASSOC. MEETING

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

7:30 pm

Info: Barry Gould - (614) 777-8534

Chuck Davis - (614) 792-6237

<http://members.tripod.com/~COARA/index.htm>

ARKANSAS - Jan. 3

ANTIQUE RADIO COLLECTORS CLUB OF FORT SMITH MEETING

Fort Smith, AR - 1st Baptist Church
1400 Grand Ave.

7:30 pm

Info: Paul Tucker - (479) 782-8178

OHIO - Dec. 19

CINCINNATI ANTIQUE RADIO SOCIETY MEETING

Westchester, OH - National Voice of
America Museum of Broadcasting
8070 Tylersville Road

7 pm

Info: Bob White - (513) 385-8291

WASHINGTON - Jan. 5

RADIO ENTHUSIASTS OF PUGET SOUND MEETING

Seattle, WA - Queen Ann Library
400 W. Garfield

2 pm

Info: REPS - (206) 488-9518

www.repsonline.org

NEW YORK - Dec. 21

HUDSON VALLEY ANTIQUE RADIO AND PHONO SOCIETY MEETING

Highland Falls, NY - Art Kingsley Residence

7-9 pm

(call to confirm details)

Info: Art Kingsley - (845) 446-4091

NEW YORK - Jan. 6

GREATER NEW YORK VINTAGE WIRELESS ASSOCIATION SWAP MEET & MEETING

Seafood, NY - 3870 Sunrise Hwy.
(1/4 mile east of Seafood-Oyster Bay Expwy)

8 am - 1 pm

Info: Jim Koehler - (516) 623-0035

Rich Lee - (914) 589-3751

NEW YORK - Dec. 23

SCHENECTADY ANTIQUE RADIO CLUB MEETING

Schenectady, NY - Schenectady Museum &
Planetarium

Knott Terrace

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

Info: David Ellers - (518) 237-2665

<http://dadellers.tripod.com/>

MISSOURI - Jan. 8

ANTIQUE RADIO COLL. & HIST. SOC. OF GREATER ST. LOUIS MEETING

Kirkwood, MO - Kirkwood Cornm Ctr
111 S. Geyer Rd. Room 201-A

7:30 pm

Meeting - Show & Tell - Swap Table

Info: Derek Cohn - (314) 725-2333

vibroplex@mindspring.com

OHIO - Jan. 1

ANTIQUE RADIO COLLECTORS OF OHIO MEETING

Dayton, OH - 2929 Hazelwood Ave.

7 pm

Info: Karl Koogler - (937) 294-8960

E-mail: karlkrad@gemair.com

NORTH CAROLINA - Jan. 8

EAST CAROLINA ANTIQUE RADIO CLUB MEETING

Greenville, NC - Sheppard Memorial
Library

Meeting Room A, 530 Evar s St.

7 pm

Info: Herman Schnur - (252) 752-2264

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

**Submission Deadline for
January issue is Dec. 5
February issue is Jan. 5**

OHIO - Jan. 8

SOCIETY FOR THE PRESERVATION OF ANTIQUE RADIO KNOWLEDGE MEETING

Centerville, OH - Donatos Pizzeria
7912 Paragon Rd. • 7 pm

Info: Jeff Bothwell - (937) 854-7106
jbothwell@butlertownship.com

OREGON - Jan. 12

NORTHWEST VINTAGE RADIO SOCIETY MEETING & TAILGATE SWAP

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

Swap: 8:30 am - Meeting: 10 am
Info: www.nwvrs.org

PENNSYLVANIA - Jan. 8

DELAWARE VALLEY HIST. RADIO CLUB MEETING - SWAP - AUCTION

Telford, PA - Telford Community Building
Hamilton & Hamlin

7:30 pm

Info: Delaware Valley Historic Radio Club
PO Box 5053, New Britain, PA 18901
www.dvhr.org

COLORADO - Jan. 13

COLORADO RADIO COLLECTORS MEETING

Call David Boyle for details
1 pm

Info: David Boyle - (303) 681-3258

ARKANSAS - Jan. 10

ARKANSAS ANTIQUE RADIO CLUB MEETING

Call for location and directions
7 pm

Info: Tom Burgess - (501) 455-0773

NEW MEXICO - Jan. 13

NEW MEXICO RADIO COLLECTORS CLUB MEET

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

1:30 pm: Tailgate Swap Meet

2 pm: Program, Show & Tell and Auction

Info: Chuck Burch - (505) 286-9674
chuckBurch@aol.com

<http://members.aol.com/NMRCC>

NEW JERSEY - Jan. 11

NEW JERSEY ANTIQUE RADIO CLUB MEETING

Princeton, NJ - The David Sarnoff Library
U.S. Route 1

7:30 pm

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

www.njarc.org

GEORGIA - Jan. 14

SOUTHEASTERN ANTIQUE RADIO SOC. MEETING WITH SHOW & TELL

Norcross, GA - Fire Mountain Rest.
Jimmy Carter Blvd.

6:30 pm

Info: Rich Rodgers - (678) 591-3619
www.sarsradio.com

OKLAHOMA - Jan. 12

OKLA. VINTAGE RADIO COLLECTORS MEETING

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

6 pm: Dinner - 7 pm: Meeting

Info: Frank Karner - fkarner@cox.net
(405) 769-4656

<http://members.cox.net/okvrc/>

OKLAHOMA - Jan. 17

HEARTLAND ANTIQUE RADIO ASSOC. MEETING

See Website for meeting location
7 pm

Info: Dan Weillacher - 620 Spunky Rd.
Catoosa, OK 74015
www.hlara.org

OHIO - Jan. 19

ESTES AUCTIONS RADIO AUCTION

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

10 am

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

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

TEXAS - Jan. 19

TEXAS ANTIQUE RADIO CLUB MEETING

Kyle, TX - Railroad BQ

10:30 am

Info: Ed Engelken - EdEngel@gvtc.com
(830) 899-3864
www.gvtc.com/~edengel/TARC.htm

FLORIDA - Jan. 21

JACKSONVILLE ANTIQUE RADIO SOC. MEETING

Jacksonville, FL - Countryside Village
Clubhouse, 10960 Beach Blvd.

7:30 pm

Info: Sean Olin - (904) 386-8332
www.jarsradioclub.com

TEXAS - Jan. 19

VINTAGE RADIO & PHONOGRAPH SOC. MEETING

Irving, TX - Senter East Building

9 am - 12 Noon

Info: George Potter - (972) 353-4862
vrps@sbcglobal.net - www.vrps.org

TEXAS - Jan. 26

HOUSTON VINTAGE RADIO ASSOC. MEETING

Houston, TX - Bayland Park Com'n. Ctr.
6400 Bissonnet at Hilcroft

9:30 - 12 Noon

Info: Bill Werzner - (713) 721-2242
mingqj53@sbcglobal.net
www.hvra.org

MARYLAND - Jan. 20

MID-ATLANTIC ANTIQUE RADIO CLUB MEETING

Davidsonville, MD - Davidsonville Rec Center
3727 Queen Anne Bridge Road

Flea Market: 9 am - Auction: Noon

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

WISCONSIN - Jan. 27

WISCONSIN ANTIQUE RADIO CLUB SWAP MEET

Milwaukee, WI - 5917 S. Howell
Near Airport

8 am - 12 Noon

Info: Bill Engaas - (262) 786-8183
engaas@milwpc.com

TENNESSEE - Jan. 20

MEMPHIS ANTIQUE RADIO CLUB MEETING

Memphis, TN - St. Timothy United
Methodist Church
4105 St. Elmo Ave.

2 pm

Info: Ray Eaton - (731) 989-7089
marc_memphisantiqueradioclub@hotmail.com

ALABAMA - Jan. 28

ALABAMA ANTIQUE RADIO CLUB MEETING

Birmingham, AL - Alabama Power Building
Parkway East

7 pm

Info: Ron Westbrook - (205) 833-8035
www.bham.net/ahrs/

WASHINGTON - Jan. 20

PUGET SOUND ANTIQUE RADIO ASSN. MEETING

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

10 am - 12 Noon: Tailgate Swap

12 Noon: Meeting, Program, Show & Tell

Info: Pete Peterson - (425) 747-1323
http://www.eskimo.com/~hhagen/
psara.html

TEXAS - Feb. 1-2

HOUSTON VINTAGE RADIO ASSOC. 29TH ANNUAL CONVENTION

Houston, TX - Greenspoint Marriott Hotel
255 N. Sam Houston Pkwy E

Equipment Contest, 3 auctions,
Banquet and Swap Meet

Info: Bill Werzner - (713) 721-2242
www.hvra.org

SUBMISSION DEADLINE

5th OF MONTH FOR FOLLOWING MONTH'S ISSUE
Please include date, time, place, directions,
event details & information/contact person.

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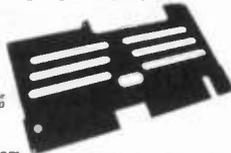
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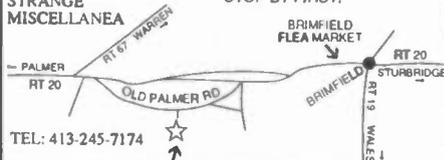
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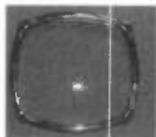
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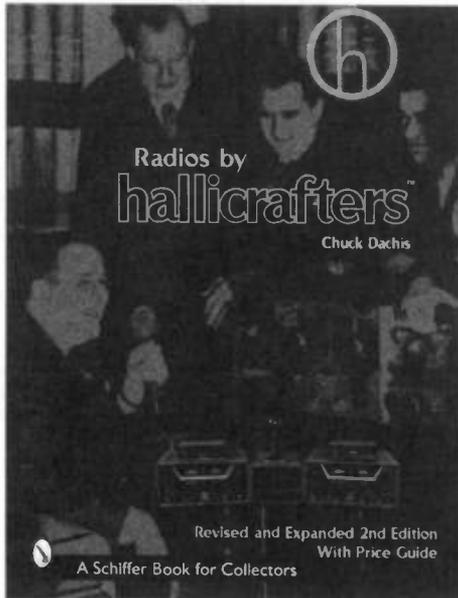
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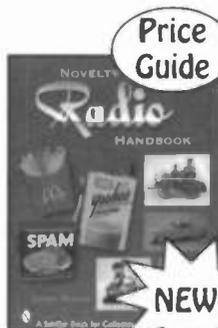


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(#16-Nov-07)

Transistor Radio Books



Price
Guide

Transistor Radios: 1954-1968 by Norman Smith. Over 1,000 transistor radios identified by manufacturer, marketing organization, type, and style. 460+ color photographs and price guide. 8 1/2" x 11". 160 pgs. Softcover – \$29.95



Price
Guide

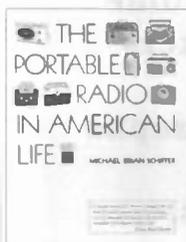
NEW!

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Price
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Collector's Guide to Novelty Radios by Marty Bunis & Robert Breed. This book is the source for novelty transistor radios in all shapes and sizes. Radios are described in detail with current prices. Over 600 color photographs. 8 1/2" x 11". 224 pgs. Softcover – \$18.95



The Portable Radio in American Life by Michael Schiffer. Approximately 50 pages on transistor radios, beginning with the Regency TR-1 through to the later sets made overseas. 450 photographs, 193 transistor radios pictured. 8 1/2" x 11". 259 pgs. Softcover – \$26.95



Price
Guide

Zenith Transistor Radios, Evolution of a Classic by Norman Smith. A complete listing of all transistor radio models created by Zenith during the Magic Years from 1955-65. 200+ color photographs and price guide. 8 1/2" x 11". 160 pgs. Softcover – \$29.95

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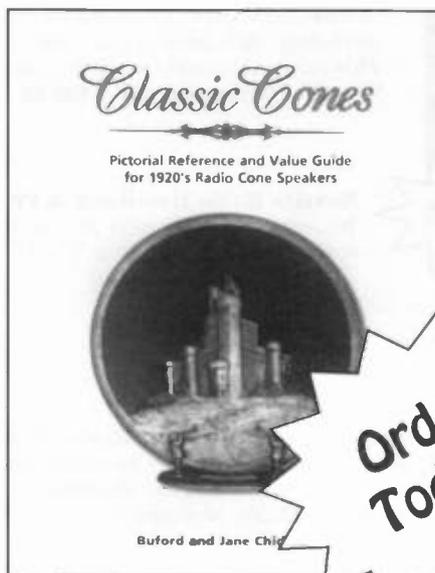
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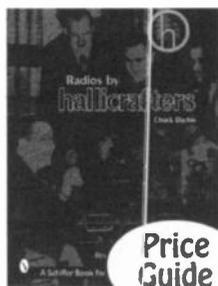
(#32-Oct07)

Amateur Radio Books



Heathkit, A Guide to the Amateur Radio Products, 2nd Edition by Chuck Penson. Updated and expanded documentation of Heathkit's amateur radio products and a history of the company. 8 1/2" x 11", 328 pages. Softcover. — \$29.95

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A Pictorial History of Collins Amateur Radio Equipment by Jay Miller. The most complete story of Collins. Told in hundreds of photos & in the words of the men who made it happen. — \$39.95

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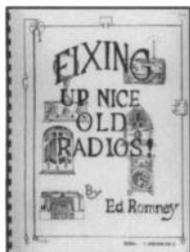
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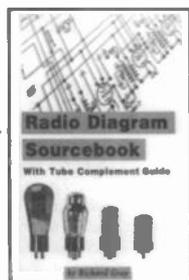
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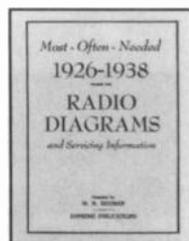
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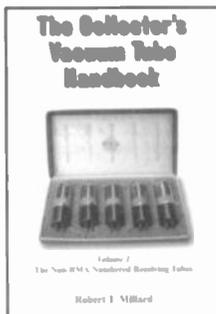
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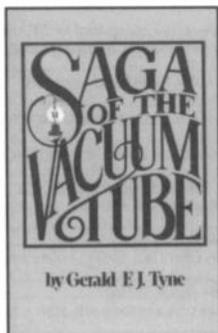
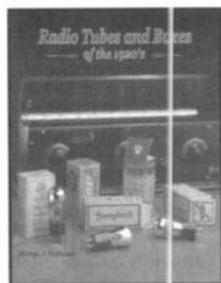
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Bendix	526C	Green & Black	625
DeWald	A501 & A502	Brown Yellow Red	375 425 1,200
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Emerson	564	Black Green Red	500 1,150 1,650
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Espey	Name	Your	Price
Fada	115, 116 & 1000	All Yellow Maroon & yellow Yellow & red Pea Green Blue & Yellow	700 950 1,150 1,400 2,650
Fada	L56	Yellow Light Green Maroon & Yellow Yellow & Blue Yellow & Red Emerald Gr/Yellow Blue & Yellow	1,500 2,500 2,200 3,000 3,500 7,000 7,000

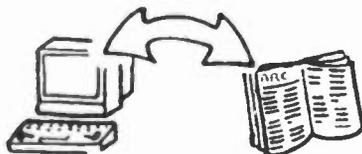
MAKE	MODEL	COLOR	PRICE
Fada	F55 & 52	Yellow Light Green Maroon & Yellow Yellow & Blue Yellow & Red Emerald Gr/Yellow Blue & Yellow	1,000 1,500 1,500 2,000 3,000 4,000 4,000
Fada	5F50 & 5F60	Yellow Light Green Yellow & Blue Yellow & Red Emerald Gr/Yellow	1,000 1,000 2,500 3,000 4,000
Fada	700	Yellow Maroon Onyx Blue	750 1,000 1,200 2,000
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Symphony	Name	Your	Price
Tom Thumb	All Colors Needed Name Your Price!		

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