

The

FLASH!!

An Official Journal Published For Radio/TV Collectors
Dedicated to the Preservation and Documentation of Wireless, Radio, Television, and Associated Equipment

Volume 6

January



February 1995

Issue 1

*Have A Nice
Antique Radio
Valentine's Day!*



I'M
BROADCASTING THE
LOVE-LY NEWS,
THAT YOU'RE
MY VALENTINE

!! WARNINGS !!

As Necessary, A Column From Your Editor

Although the following article is directed to collectors in all areas of interest and particularly those collectors away from Denver, your editor feels compelled to present this letter as a reminder of what can happen. We thank Ed Sterling of Chicago for sharing what obviously was an embarrassing situation.

COLLECTOR SCAM ALERT

I was the target of a scam. I have just learned of an identical case via the Erector Set Collector's Club newsletter.

A scam artist is operating out of the Denver, Colorado area. He apparently reads publications like *The Toy Shop* and other toy collecting newsletters and magazines, targeting persons with "wanted" ads.

He calls and tells you the IRS is coming very soon to audit an old toy store owned by his grandfather; to collect back taxes. He says the IRS has no idea of the value of these old toys stockpiled in the old toy store, but, since he does, he wants to sell some of the merchandise fast to raise money to pay backtaxes.

He then explains he has the following for sale: (at this point, he describes a "dream" item sought by the person he is calling). Usually the "dream" is enhanced significantly when he says he has a CASE LOT of that item! Yes, he knows a case of (whatever) is worth (whatever \$1000s) but the IRS is coming VERY soon and he's got to get rid of this stuff fast. Because the IRS will only estimate it at its face value, he continues the scam by saying he'll let the lot go for \$400 cash...TODAY ONLY! Since he doesn't want the IRS to know about this, he insists you, the victim, use Western Union money-wire service with the (unfortunately available) anonymous, no-ID-required option. He tells you his name (bogus, of course) and suggests some codeword, urging you to get this done within the hour.

He'll typically call back again in 30-60 minutes looking for his money and, perhaps if he got it, assures you he's down at UPS and the package has just been sent.

Yes, my commonsense clicked off when it happened to me. I didn't lose \$400, but I did lose some money. When the stuff never arrived, I did a Western Union trace and discovered he was waiting for the money at a supermarket in the Denver suburbs. The supermarket staff was of little help, saying it was very common to receive such anonymous, no-ID-required "moneygrams". Another unfortunate side of these moneygrams is they can be picked up anywhere in a wide area; you do not have to send the money to a specific location, you can just say "Denver" or "Chicago", etc.

Sadly for us, this is a "great" scam. It's a grey area for the collector. Are you part of cheating the IRS or not? The individual claims he is raising the money to pay backtaxes. Further, this person does a little research to find out a very, very desirable item for the particular collecting field he is going to scam. You, as the collector, get the feeling he really knows what he is talking about.

Please warn fellow collectors about this, using whatever means you have (collector newsletters, etc). I asked *The Toy Shop* newspaper to publish an alert, but they chose not to cooperate. If you or a friend have been approached in a similar way, will you please contact me? Perhaps with several documented cases, this scam artist can be located.

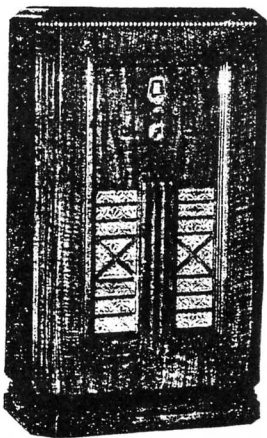
Whatever you do, DO NOT USE WESTERN UNION MONEYGRAMS TO SEND MONEY WITHOUT POSITIVE ID. Use USPS money orders and use the US mail! While it's wonderful to dream...remember, if something sounds too good to be true, it very likely isn't real! Thank you. Ed Sterling

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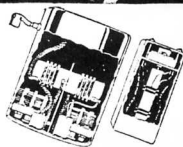
*"Does Your Radio Miss
this half the Program?"*

With a SCOTT Hear ALL the High
Tones and Overtones

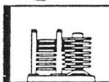


Why the SCOTT Full Fidelity Radio Gets More Stations with Finer Tone-

At right—5-inch SCOTT I. F. Transformer designed in SCOTT Laboratories and used exclusively in SCOTT 23-Tube Full Fidelity Radio. Large shield three times size of shield on transformer of production type radios—Five of these powerful Transformers in every SCOTT.
HERE IS THE SECRET OF WHY THE SCOTT ALONE GETS ALL THE BEAUTY OF THE PROGRAM—ALL THE GLORIOUS HIGHS AND OVERTONES ON THE AIR.
Far right—Three such small transformers used in mass production radios. Hole in shield let in dust and moisture. Cramped shield prevents full amplification of program signal.



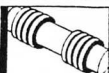
SCOTT I.F. Transformer (left) and production radio's transformer (right) in true comparative sizes.



Top—SCOTT 8 segment air condensers in 2-Transformers of SCOTT radios. Each segment does its share in capturing full signal. No dust can settle between segments to cut down sensitivity or damage tone quality.



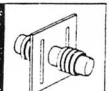
Bottom—Semi-fixed condensers in production radios. Less ability to pull in distant stations. Dust collects. Makes hiss in tone.



Top—SCOTT 8 section transformer coils. Higher efficiency. Permanently fixed on bakelite tube. No shifting of space between coils. Sharper station selection.



Bottom—2 section coils of ordinary radio. Mounted vertically. Wood dowel shrinks in dry climate—coils slip down. Expands in wet climate—compresses wires, causes short circuit.



Top—SCOTT brass shield between primary and secondary coils. Increases sensitivity which can be built into set. Enables 70u to get more stations.



Bottom—No shield between coils in ordinary radio. Signals jump back and forth, making howl. Factory cuts resistor to cut howl—thus you miss many stations.

WE have long made unmistakable claims for the marvelous tone and incredible distance performance of the 23-tube SCOTT. Here you see the proof—proof that backs these claims! You find the same superior engineering and custom-building throughout every detail of the SCOTT—just as demonstrated here with the I.F. Transformers. As a SCOTT owner you receive the positive guarantee that if your SCOTT does not bring in more foreign and domestic stations with more startlingly true, beautiful tone, with less noise and greater undistorted volume—you may return it anytime within 30 days if you live in the U. S. A. and your money will be refunded without question.

THE SCOTT IS NOT EXPENSIVE

How amazing it is that hundreds of celebrated musicians such as Guy Lombardo and Toscanini, and financial leaders such as Baron de Rothschild have chosen to own a SCOTT—when the SCOTT is actually priced at \$25 to \$100 less than many ordinary mass production sets! You cannot overestimate the importance of this astonishing fact.

Here is the explanation! When you buy a SCOTT you pay no middlemen's profits. You get custom-building for the price of mass production sets—with all the superior performance custom-building gives.

Put the SCOTT in your own home for 30 days—in a side by side comparison test with any other radio, regardless of price. Get the glorious domestic short wave programs from the east—the pick of America's popular music—of finest concert music—music in the morning! Programs directed at Europe—yet your

SCOTT pulls them in with a truth and beauty of tone which is unbelievably real.

Turn up the SCOTT Variable Selectivity—you can aim it so sharply that you get WOR—jammed between WGN and WLW.

Get Germany, Australia, Italy, England, Spain, Holland—the news and music of all the world from the lands of their exciting origins. Compare your results with those on any other radio.

MANY EXCLUSIVE FEATURES

The only radio—by test of national High Fidelity radio station—which gives you all the radiant, vital high fidelity overtones up to 16,000 cycles, wherein lies the greatest beauty of all music.

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These are but a few of the features which have made the SCOTT probably the outstanding custom-built radio in the world today. Fill out the coupon now—get this unparalleled story of tone and distance performance! Discover for yourself the vast new wealth of fascinating radio entertainment which is enjoyed only by SCOTT owners.

*Name upon request.



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BUILDERS OF THE WORLD'S FINEST CUSTOM-BUILT RADIOS

Zenith Model Numbers

By George Kaczowka, Guest Author

Due to popular demand, here is the information on model numbers for Zenith radios from 1936 to 1942. The model number is broken into 3 components..

< Number of Tubes > < Type of Service Letter > < Model/Year Number >

The number of tubes is pretty self-explanatory..."10" means 10 tubes.. The Type of service is one of the following as taken from the Zenith Service Manual Volume III preface as well as a bit of personal investigating:

- | | |
|---|--|
| A - Straight A-C. All Wave | P - Straight 110 Volt A-C Police and Standard Wave |
| B - Six volt Battery - Farm | R - A-C/D-C (Chassis with 60 cycle phonograph) |
| D - 110 volt A-C/D-C | Broadcast Only |
| F - Two volt Farm | S - Straight 110 Volt A-C. Broadcast and Short Wave |
| G - Portable Pack, 110 volt A-C/D-C | T - Straight 110 Volt A-C |
| H - Straight 110 volt A-C Frequency Modulation | U - Straight 110 Volt A-C Broadcast and Ultra Short and Short Wave |
| J - Six volt Battery, 110 volt A-C | X - Thirty-two volt - Farm |
| K - Battery Pack, Farm & Portable | |
| L - Long and Standard Wave | |
| M - Auto set (2nd letter designates car for which set is intended) | |
| F - Ford H - Hudson M - Mercury | |
| N - Nash Motors L - Lincoln | |
| W - Willys Overland Motors | |
| X - Crosley Motors | |

The third number indicates cabinet type. The hundreds position of the number is added to 1936 to determine the model year. In addition, a suffix letter or group of letters is used on some models. This usually indicates a slight variation of the original model without the suffix. Here are some which were used:

- E - Export (auto radios)
- T - designates an export model
- TA - Export: 25 cycle all voltage
- TB - Export: 60 cycle all voltage
- TC - Export: 50-60 cycle, 95, 117, 150 volts

Let's look at a couple of examples:

"5D610" is a 5 tube, 110 volt A-C/D-C set in the 1942 model year.

"10S443" is a 10 tube, 110V AC AM/SW 1940 set.

NOTE...

This works up to about 1942. After the war, 1946 and 1947 sets had numbers like 9H085 or 7R070 (Note lead "0" was inserted whereas 1936 sets were like 9S54). Some of these designations were used in 1948 also. Set in 1948 also used the 700, 800, and 900 series models such as: 14H789, 9H888, and 8MM990. I am sure there are exceptions, but hope this helps.

Also... DID YOU KNOW all Zenith serial numbers were unique? Given a serial number and the code letter (tag color also) you can identify a chassis number and then the models it goes with? This was done between (Continued on page 18)

Ye Ol' Bits & Pieces

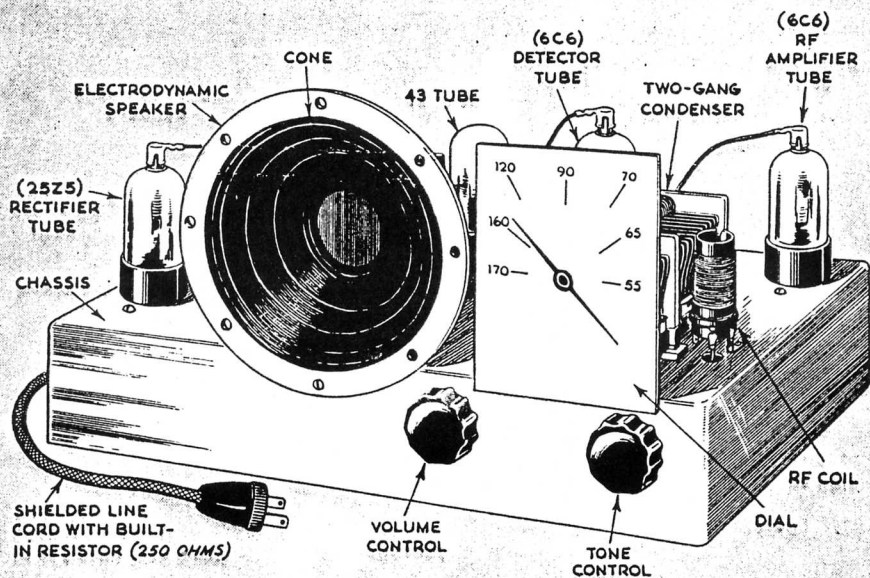
From the Technical Library of JoAnn & Fred Bantin

WHAT'S WRONG WITH THIS PICTURE?

(As taken from Popular Science of March 1943)

How much do you know about radio? In the sketch of a four-tube A.C.-D.C. TRF receiver below, the artist has made eight intentional errors. Can you find them? As a clue, look for omissions and unnecessary inclusions, and study the parts themselves and their position on the chassis. Take as much time as you require, then look at the inside back cover of this issue to check your answers. (*The Bantins suggested we hold out till next month to give the answers, but even I couldn't wait! Ed.*) No fair peeking!

What's Wrong?



NEW PERIODICAL ANNOUNCED

Marc Ellis, who writes the antique radio articles for Popular Electronics is now publishing an eight page newsletter called *The Radio Collector*. It has tight, concise articles on history, tech tips, help letters, want ads, and more. Subscriptions are \$20.

Radio Collector
P.O. Box 1306
Evanston, IL
60204 - 1306

THE SCROUNGE BOX

By Larry Weide, C.R.C. Vice President

Hi... all you CRCers! Well, if you had read last month's 'Box article on the restoration of antique speaker permanent magnets, you might have caught the comment I made about doing a subsequent article on the restoration of antique speaker paper cones. Some of the guys mentioned they thought Leamon Brooks, one of our very knowledgeable CRC members, had some information for making flat stock paper patterns that could then be formed into the desired sized speaker cones.

To make a long story short, indeed, Leamon is full of knowledge on the subject. So, I want to give a lot of thanks and credit to Leamon Brooks not only for mailing me a copy of his speaker cone data table, but also for spending time with me to talk through some of the finer points of constructing replacement early speaker cones.

During the 20's and even into the early 30's, most speakers didn't have much "hi" to their "fi". For all intensive purposes the first ones were merely a horn attached to an earphone. The next step was to remove the horn and metal acoustical diaphragm and replaced these parts with a paper cone attached to a mechanical linkage that was in turn operated by a coil/magnet assembly (see Nov/94 *FLASH* 'Box article). This type of speaker was far better than the horn speaker, but pretty soon engineers developed the first models of the modern day speaker. That is, a speaker with a compliant cone that was integrally attached to a low mass voice coil that in turn was operated by it's close proximity to a strong stationary magnet.


Many of the old paper cone speakers have survived and they sure do add authenticity to the display and operation of the radios they were originally attached to. Unfortunately, time, dampness, pests, and abuse have taken their toll on many a paper cone

But as you will see, replacing a cone is not all that tough and it can be done very inexpensively.

Although the cones of the various speakers came in many different sizes and colors, they had two characteristics that make them fairly easy to replicate with modern materials. First, most of them were constructed with a paper that had the constitution similar to medium grade tag board, which is easily found in most art supply stores. Second, they almost always had the shape of a regular cone which lends itself to a simple construction technique.

So, let's take a stab at reconstructing one of these speaker cones. The first thing to do is to determine your original cone's depth from the opening that faces the listener to the back where it comes to a point. Actually, the exact point is normally missing as this is the usual place where the mechanical linking rod is connected. Next, you need to determine the width of the cone's opening. In cases where the cone is missing or beyond useful measuring, you would use the speaker shell/container and linkage connecting points to anticipate the cone's dimensions. Don't forget, tag board is cheap, and you can afford to make a mistake or two when arriving at your final accurate measurements. You may also want to "play" with other even cheaper papers until you get the dimensions just right.


The next step is to calculate and mark cutout guidelines on the tag board paper, using the depth and width measurements you just made. There are two calculations to make. First is the diameter of the circular pattern and second is a circle chord line that will indicate what size "pie" shaped section to cut out of the pattern to correctly form it into a cone shape. At this point you can go a number of ways:

You can send me a SASE and 

and sixty cents (\$.60) to cover the cost of copying to get Leamon Brook's data table that's too extensive to include in this article.

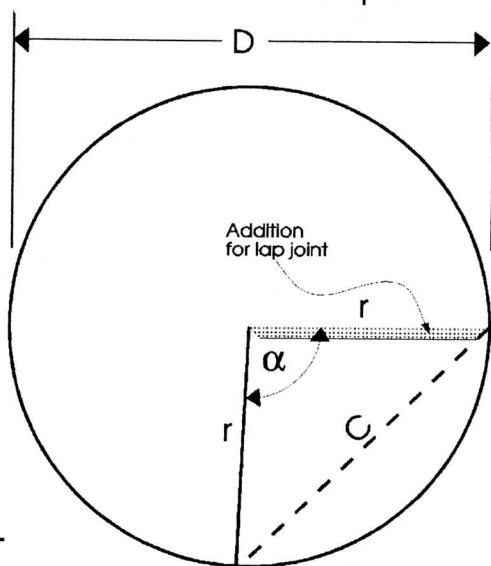
- 🔪 Or...you can use the formulas below that I worked out.
- 🔪 Or...you can use the simple PC BASIC program below I wrote.
- 🔪 Or...you can get a complete PC BASIC program that includes instructions and both printing and displaying options for data table output that centers around

your requested design. I can cut a 3.5" or a 5.25" diskette in all densities up to 1.4MB. The files on the disk can be run with BASIC/BASICA (IBM), GWBASIC (non IBM), or QBASIC (DOS 5 or 6).

- ☐ You can have it for free if you bring me a diskette to the next meeting. I'll get it back to you at the following meeting.
- 🔪 Or...you can just come on 

Pattern and Cone Relationships

Fig. 1
Pattern

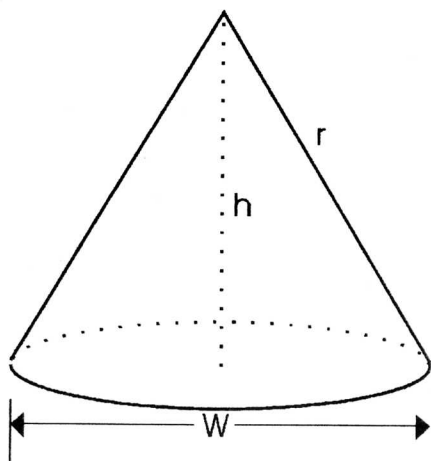


$$D = \sqrt{4h^2 + W^2}$$

$$\alpha = \frac{360 (D - W)}{D}$$

$$C = D \sin\left(\frac{\alpha}{2}\right)$$

Fig. 2
Cone



(Diagrams by the author)

over to my place with your diskette I'll copy the program for you on the spot.

- Or...you can get a copy of the program by mail if you'll send me five dollars (\$5).
- Or...you can have it for free by mail IF you'll send me a diskette AND a prepaid mailer.

To find the pattern diameter and chord by formula follow these steps (See figures 1 and 2 on the previous page - Editor):

1. Use the depth (h) and width (w) of the cone to find the diameter (D):

$D = \sqrt{4(h^2 + w^2)}$ [the square root of the quantity of 4 times the depth squared plus the width squared]

and chord by the simple PC BASIC program shown in the inset below.

OK, we're now ready to make our tag board pattern:

1. Using the diameter (D), draw a circle on your paper. If you don't have a suitable pencil compass, use the string/pin/pencil method to draw your circle.
2. Using the chord (C) as the length of a line, draw this line so it starts and ends exactly on the circumference of the circle. The exact position around the circle is unimportant.
3. Now, draw a triangle connecting the center of the circle with the two points that are marked by where the chord line touches the circumference of the circle. The chord line itself will become the side of the triangle that is opposite the center of the circle.

PC BASIC PROGRAM

```
10 INPUT "Enter required cone depth ",H
20 INPUT "Enter required cone width ",W
30 PRINT "Pattern diameter = "; PRINT SQR((4*H*H)+(W*W))
40 PRINT "Pattern ch = "; PRINT SIN(360*(D - W)/D*3.141/180/2)
```

2. Find the "pie" shaped section *cutout angle* (a):

$a = 360(D - w)/D$ [360 times the quantity of the newly found diameter minus the width divided by the newly found diameter]

3. Find the *chord length* (C):


$C = D \sin(a/2)$ [the newly found diameter times the sine of one half of the newly found cutout angle]

Be aware if you do the above calculations with a scientific calculator, you may need to account for the angle in radians rather than in degrees (as is the case of the BASIC program below).

Radians = Degrees x pi/180
(pi=3.141)

You can find the pattern diameter

4. At this point we have drawn the outline of a "pie" shaped section of paper that you need to cut away after you have cut out the entire circle. But first, however, in order to allow a lapped glue joint, you need to include an additional 1 inch strip along side one of the radii you will be cutting. Be sure this additional paper area is marked/taken from the section you are cutting out (throwing away) and is accounted for AFTER you have drawn the correct guidelines as described in step #3. This lap strip will have to have its end corners trimmed a bit so that they don't interfere with the glue joint.

5. After you have completely cutout your pattern you can begin to shape it into a cone by carefully easing the two cut 

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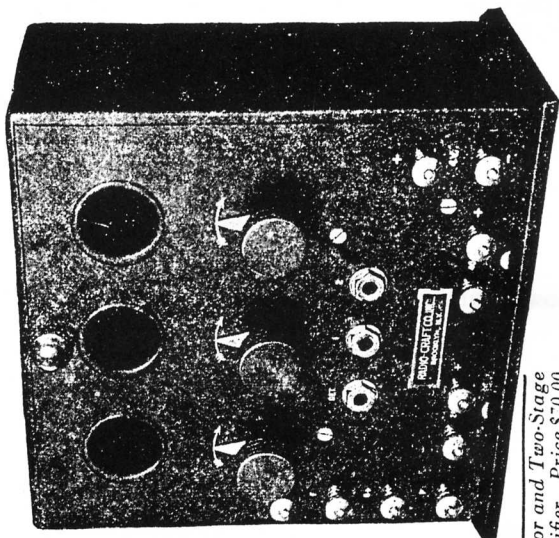
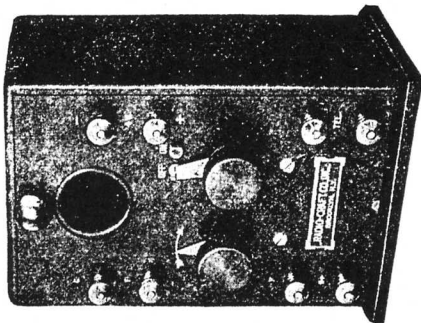
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sides together so it forms the lapped joint. The trick will be not to kink or crease the paper as you wrap it around. I've used cans and other cylindrical objects as forms to help "ease" the paper into a curve without creasing it.

6. The next step is to glue the lap joint in place. Leamon likes to use a carpenter's glue. This type of glue will allow you to do a little adjustment or moving of the joint before it sets up. This is important in that the position of the paper in the lapped joint will determine just how symmetrical your cone will be, assuming you've done your marking accurately. Leamon says some folks sand the visible edge of the joint to "feather" out the seam to make it less noticeable. (Whew! And I thought Dave Boyle was finicky!)

A troublesome area may be the mounting of the front opening of the cone. The problem is that there were many ways to do the mounting, so you'll just have to see how your original cone was done. Sometimes the cone was rolled/bent around a cover edge. Sometimes the cone was attached to a ring of felt, cloth, or other paper. Sometimes the front opening of the cone was free floating and was supported in a guide made of a band of felt or other material that lined the cabinet interior.

Hey, that's basically it. For those cones that are visible and have colors other than the "raw" paper, you can lightly tint them with a non-water based paint. Flat spray colors will be the easiest to apply, but you'll have to decide for yourself what replicates the original cone the best. ❄



This picture was taken at the **KEZW 1994 Annual Open House and Antique Radio Clinic**. You know "the boys" (*L to R seated: Dick Hagrman, David Boyle, Barney Wooters - Standing far right: Wayne Gilbert, Larry Weide -Ed.*). Standing next to Wayne is Rick Crandall, the Programming Director and, of course, the host of the "Breakfast Club" which is on from 6:00am to 10:00am Monday through Friday. Next to Rick is Roger Tighe KEZW/KOSI Station Engineer. The open house was held December 3rd from 10:00am to 1:00 pm. During that time the station held guided tours for about 150 people...quite a crowd. Listeners came through with radios to identify, price, and examine for possible repairs. There were 16 radios which made it quite busy. Points of interest: An early 2-tube Crosley with 199's. A lady with an early 50's Crosley "avacado" Bakelite she'd received when she worked for Crosley in Cincinnati. - Larry - ❄

Official Journal of the
**Colorado Radio
Collectors**

Founded October 1988

Dedicated to the Preservation and Documentation of
Wireless, Radio, Television, and Associated Equipment

MEETING LOCATION

Unless otherwise noted in this Journal, beginning in January, meetings are held on the second Sunday of every other month (exception: third Sunday in May) at 1:00 PM at the *SouthWest Bank Building*, Community Room, 1380 South Federal, Denver. A swap meet follows the meeting in the bank parking area.

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Bob Cofer

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Please do NOT make checks to CRC,
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WANT ADS

AND

ARTICLES

Should be directed to the

C.R.C. Editor

1249 Solstice Lane

Fort Collins, CO 80525-1239

DEADLINE NOTES

It's the intention of this Editor to broadcast our journal bi-monthly just prior to the C.R.C. meetings. Articles about, and pictures of your treasures, are welcomed as are *Want/4-Sale* ads and any letters or comments about our hobby. All materials used are the copyrighted © property of the *Colorado Radio Collectors*.

Your Editor will put together articles about your best finds, restoration and electrical repair techniques, or your recollections and stories about radio. Just provide a handful of information in any form.....and we'll put it together!

Our club can only succeed when we share our experiences, talents, needs, and adventures; you're being asked to contribute in whatever way you can. **SHARE** with us today!! Thank you!

DEADLINES

February 5 • April 5 • June 5
August 5 • October 5 • December 5

November Minutes

Via Vicki's Encrypted Notes

Lakewood's *Historical Belmar Village* had two representatives, Elizabeth Nosek, curator of Education, and Win Ferril, exhibit curator, come to the November 13 meeting. Both did an excellent job in presenting the exhibition plan (shown on the following page - Ed.) to about 45 members and prospective members attending. Discussion covered subjects of the exhibition six month time frame from September 18 through March 16, 1996. The era(s) the exhibition will

cover are the 1920s through the '50s. Articles will be selected and pledged by June 30th and forms completed by September 11th with the exhibit opening the 19th of September. All radio and equipment will be returned by March 22, 1996. Safety measures taken to protect items loaned include plexiglass, alarm systems, and security guards. The room has limited space, but Ms. Ferrell said she was very good at fitting a lot of things in a little area. A cover charge will be necessary in order for the museum to keep within the budget set for this exhibit. Eight to ten people were willing to lend items for the exhibit. Rick Crandle, KEZW Program Director, will give the exhibit remote broadcast airtime.

Larry Weide in his Treasurer's report said there is about \$1,300.00 in the account. There are 103 newsletter mailings, 12 of which are new members from the Nebraska club, which we have Rick Ammon to thank for providing. *(Again, to clarify...they are not becoming members of the CRC.*

Rather, we are providing them with a nearly identical newsletter to that of the FLASH!! The CRC gets reimbursed for each Nebraska member. Editor)

Non-profit status for the club is continuing to move forward. By-laws have been written and are available for review on page VI. Perhaps outside organizations will be willing to donate to the CRC if it carries a true non-profit status, so say our officers.

John Terrey has provided a free subscription to his monthly periodical,

Grill Cloth Available

Dick Hagrman has arranged for a C.R.C. discount on grill cloth. For samples and ordering, see Dick...

- ▶ There are 10 different patterns.
- ▶ A minimum order is 1 yard (48" wide material)...enough material for at least 3 typical consoles.
- ▶ The cost is \$25 per running yard. Perhaps more than one member could share a yard.
- ▶ The C.R.C must place an order for at least 10 yards in order to get the discount.

Antique Radio Classified. Larry Weide suggested the subscription be auctioned off, but the members of the club voted to have it raffled. So, the ARC is now available for loan from Bob Baumann who will receive the official CRC copy for one year as the raffle winner. The CRC thanks John for his generosity!

We received a letter from CRC member, Mike Tremper, a 21 year Colorado resident who is moving back to Cheektowaga in upper New York state. He began repairing and loving old radios at the age of thirteen. Mike will be marrying his long-time high school sweetheart and is creating a custom-built tombstone as her wedding gift!

Dick Hagrman supplied samples of grill cloth he has available for purchase as well as "Finish Rejuvenater". Dick also has nice "Swan" design woodwork for restoring Jackson Bell grills, made by a one-time collector who is now doing this fancy scrollwork.

Dave Boyle has technical repair and testing information he downloaded from InterNET and is willing to share.

Call him for phone numbers and copies of information. Dave gave us a neat hint. Laminate old cellophane dials to preserve them, help them keep their integrity, and provide a

natural shine. Lamination material can be easily found from K-Mart to office supply stores.

Happy Holidays to all...See you all, January 8th. *

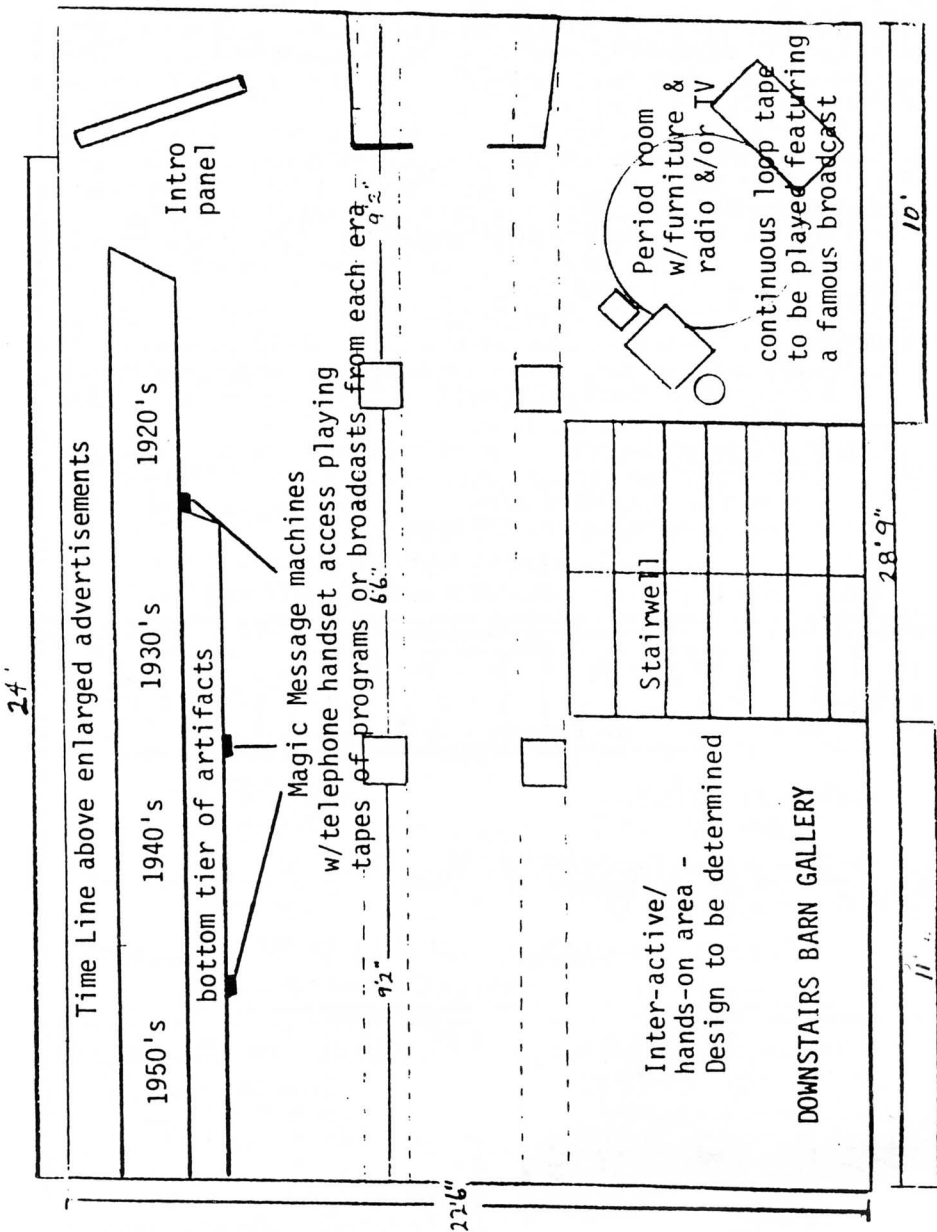


Diagram prepared by Belmar Village

ON THE AIR

Jerry Tynan, C.R.C. President

HAPPY NEW YEAR! Nineteen-ninety-five promises to be a very exciting and busy year for our club, do largely to the many club events scheduled. The major events we are planning are the Belmar Village project, the C.R.C. Show and Sale at the Denver Collectors' Fair, the Annual C.R.C. Picnic, and the Annual September Auction. With all this on the '95 schedule, I can see we'll need many volunteers to ensure the successful outcome of each event. So, when we're asking for volunteers, please consider standing up for your club, remembering the more volunteers we get, the less each volunteer must do.

The club would like to thank all those members who donated raffle items at the November meeting. Because of your donations, the club raised \$116.00 for the treasury, including a one-year subscription to the Antique Radio Classified. GREAT JOB! We need to keep this raffle going strong to help us maintain our club membership dues at the current amount. (Note: If each member would donate just one item per year, we would have about 10 to 15 items at each meeting to raffle.) Please start the 1995 year by making a new year's resolution of donating at least one item during the year.

On behalf of the club, I would like to thank Barney Wooters for serving as C.R.C. President for the past year. Barney, you did a great job! THANK YOU!

Looking forward to seeing all of you (some of you with your hands full of raffle donations, of course) at our first 1995 meeting.

AGAIN, HAPPY NEW YEAR!

MAY YOU FIND YOUR DREAM RADIO IN THE YEAR "1995"!

NEW MEMBERS

Douglas Collman
Englewood, CO

Allan Jahnke
Colorado Springs, CO

Kenneth & Sheila Kapelke
Denver

Lindy Miller
Denver

Ronald & Karen Saager
Denver

Durbin & Wendi Seidel
Fort Collins, CO

We sincerely thank C.R.C. member *Lonnie Smith* and his Denver company

PRESSWORKS

for providing us with a professionally printed newsletter, the **FLASH!!**

Thanks, Contributors!

Carolyn & Bill Hinkley
JoAnn & Fred Bantin
Myke & Johnny Johnson
A. Tickler Jerry Tynan
Tom Pouliot Larry Weide
Dave Busetti David Gonshor
Wayne Gilbert George Kaczowka
Numerous InterNet Authors

COLLECTOR BOOKS

Lucky us! Members get specially reduced prices from L& W Books of Indiana, most up to 40% off the suggested retail plus \$1.00@ for shipping. The club also is asking for \$1.00 per book to add to the treasury. Contact your editors for information.

Here are some of the other categories of books available which might interest you and/or your significant other including, in part: Glassware, Pottery & Porcelain, Oriental & Occupied Japan, Cowboy & Sports Collectibles, Silver, Jewelry, Furniture, Advertising, Toys, Dolls, Art, Tools, and etc. The listing will be available at the meetings and books from these and other categories may be ordered, too.

Descriptions are taken from the catalogue. The first price is the suggested retail. All have paperback covers unless otherwise noted.

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All different from Volume One, 226 pages, Color, Radios of the 1920s - 1960s, With 93-94 values, pix from collection of member Jim Berg... \$ 24.95 \$ 14.97

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values, 224 pages, 100s of Radios in Full Color Photos..... \$ 18.95 \$ 11.37

TRANSISTOR RADIOS, COLLECTOR'S ENCYCLOPEDIA

Lane & Lane, 1994-95 prices, 168 pages, Photos, 2200 listings ... \$ 19.95 \$ 11.97

NEW BY-LAWS

From Larry Weide, CRC Vice President

(As Larry mentioned to this editor, these CRC By-Laws are only in a preliminary state and will be discussed and adopted at our next regular meeting. Be sure to attend this next meeting. Editor)

ARTICLES OF BY-LAWS

The Colorado Radio Collectors, here after known as C.R.C., present the following as their By-Laws, to stay in effect until altered by forthcoming stated procedures.

PURPOSE

A non-profit organization dedicated to the preservation and documentation of wireless, radio, television, and associated equipment

MEMBERSHIP

Membership is open to anyone with the following provisos:

1. Has an interest in the above stated purpose.
2. Is current in dues, after paying the initial year membership dues.
3. Honorary and gratis membership may be extended for/by mutual benefit.
4. Guests are encouraged to attend meetings. Since meetings are considered to be a privilege of membership, guest status will be allowed for one meeting only.
5. Immediate family is considered to be covered by a single membership.

MEETINGS

1. Meetings will be held every other month of the year starting with January.
2. Meetings will be held on the second Sunday of the month, with the exception of May

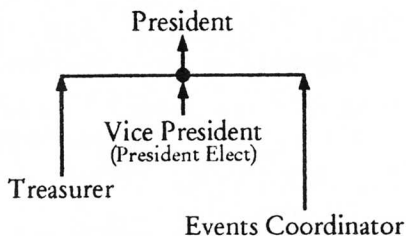
when it will be held on the third Sunday of the month.

3. Special meetings may be called by the President and/or the Board of the C.R.C..

SPECIAL EVENTS

1. Special events will be scheduled for the encouragement of continuing involvement, interest and enjoyment of membership
2. These events will include, but not be limited to:
 - * Shows
 - * Auctions
 - * Picnics and social gatherings
 - * Swap meets
 - * Raffles

ORGANIZATIONAL CHART



RESPONSIBILITIES

President

1. Reside over meetings, agenda
2. Leadership and direction for continued execution of By-Laws

Vice-President (President-Elect)

1. Chair meeting in lieu of President's attendance
2. Program coordinator
3. Membership Recruitment

Treasurer

1. Collect Dues
2. Financial Accounting
3. Pay Bills
4. Membership Records

Events Coordinator

1. Recruit members for event responsibilities
2. Delegate responsibilities for the events
3. Define event tasks
4. Expedite efforts

Newsletter Editor / Publisher

1. Journal (*FLASH!*)
2. Mem-brochures
3. Name Tags
4. Want Ads

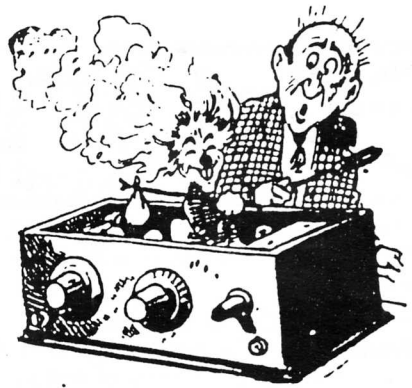
OFFICER ELECTIONS

1. New officers take office in November
2. Election will be held in May
 - * Typically a fully attended meeting
 - * Gives officers elect phase-in time
3. One (1) year term
4. Election by simple majority of members present at election meeting

REVENUE SOURCES

1. Dues
2. Book/materials surcharge
3. Refreshments
4. Raffle of club purchased items
5. Auction surcharge
6. Meeting raffle of donated items

(If you have comments, suggested changes, or additions to these by-laws and will not be able to attend the January 8th meeting, please contact Larry Weide. His telephone number can be found on the first page of this section. All of your input is greatly appreciated. Your Editor) *



Conelrad Revisited

TV, RADIO TO GET INSTANT DISASTER ALERTS

A new generation of emergency disaster warnings will cut immediately into TV and radio broadcasts, the government said. Currently, someone at a radio or TV station must decide whether to break into a program when an alert for an impending disaster is received. Stations have until July 1996 to install new digital equipment that will automatically cut into broadcasts. Cable systems have until 1997.

(A filler from *USA Today* 12/14/94)

A Special Thank You!

Recently, after very short notice from their landlord, Johnny and Myke Johnson had to move their vast collection of fragile radios to a new home. A small and dedicated group of CRC members pitched in to make those changes as easy as possible. For that, the Johnsons would like to express their sincere gratitude for all the help!

Cat Whiskers

An Editorial By A. Tickler

(Since the inception of this journal, a welcome for editorials has been extended. If the writer wishes it, this editor will always grant anonymity to insure more lively discussion....)

From the infancy of a handful of members to almost a hundred, the **Colorado Radio Collectors** has swelled to a respectable sum with, collectively, well over five hundred years of restoration expertise. The quality of equipment has amassed by each member would undoubtedly rival collections in any region of the country.

Having watched the **CRC** gather momentum through the last year or so, we feel at this point in time we're ready to take that next step. It'll be in the form of the club becoming a legitimate, non-profit organization. In reviewing the preliminary by-laws which were handed out at the last meeting, it's apparent our club is finally growing up and, with that, much more responsibility will be bestowed onto each of its members.

The direction of the group has, in the past, been swayed and often coerced by a handful of members wanting to have the club go this way or that. Occasionally, club decisions were mandated by a few who, while meeting over Saturday morning coffee, deemed it as gospel to make policy for the rest of the membership.

The new preliminary by-laws note meetings can be called by the "Board of the **CRC**". So, who are they? To my knowledge this board has never officially existed nor is it defined or even mentioned again in our soon-to-be-adopted by-laws as a responsible, governing body of our organization. Is THIS the phantom group of which I speak?

An example...at a regular meeting earlier this year, majority membership voted only members in good standing could have a buyer's number at our annual auction. The belief was supported that a paid-up member has, as suggested by the new by-laws, "Rights of Passage" and buying at the auction would certainly seem to be one of those. Not to mention, it's an obvious way to increase our treasury and our membership list which is noted as a revenue source in the new by-laws. But by the time auction day arrived, someone had decided the field should be laid open to anyone who wanted a number...member or not!

What happened to the respect of the majority vote? I remind you the foundation of this country is based on it!

If we, as a club, are going to make this step from childhood, we must adhere to an adult sense of fairness to all members. When a vote of the majority is taken, it stands and let no man (or few) be allowed to make it different. There are forums at the meetings and in the newsletter where issues can be discussed. Even if the intentions are arguably sound, the days of control by a clique must end.

I suggest a somewhat relaxed Robert's Rules Of Order preside over all formal functions of the club without taking away the spontaneity and fun. Write into the new by-laws that club business be decided by a simple majority vote. So that if any member decides to dictate policy without that majority, he can just start another club!

A. Tickler



CONTRIBUTIONS NEEDED



Seeking articles and stories relating to radio, TV, or associated equipment for use in our publication. Tips, suggestions, hints, and descriptions of restoration techniques solicited

Official Journal For The
Nebraska Radio Collectors

RESONATOR

Founded 1990

Dedicated To The History Of Radio

MEETING LOCATION

**NRC's FIRST SPRING
MEETING LOCATION,
DATE, & TIME...
TO BE ANNOUNCED
NEXT ISSUE**

N. R. C. OFFICERS

President:

Bob Jensen (308) 762 • 7391
420 Grand Avenue Alliance

Vice President:

Vern Killion (308) 324 • 2502
205 Apache Drive Lexington

Treasurer/ Secretary:

Stephen Morton (308) 534 • 4778
905 West First North Platte

**All Dues Payable
on November 1st**

★ ★ ★ ★ ★

\$12⁰⁰ Annually

Stephen Morton
905 West First

North Platte, Nebraska 68850

Please do NOT make checks to NRC,
rather to "Steve Morton, NRC Treasurer"

WANT ADS

AND

ARTICLES

Should be directed to the

N.R.C. Editor

905 West First

North Platte, NE 69101

CONTRIBUTIONS

It's the intention of your editors to broadcast this journal just prior to the N.R.C. meetings. Articles about, and pictures of your treasures, are welcomed as are *Want/4-Sale* ads and any letters or comments about our hobby or this newsletter. All materials used are the copyrighted © property of the **Nebraska Radio Club** and the **Mountains 'N' Plains Radio Collectors Association**.

The editors will put together articles about your best finds, restoration and electrical repair techniques, or your recollections and stories about radio. Just provide a handful of information in any form.....and we'll put it together!

Our club can only succeed when we share our experiences, talents, needs, and adventures; you're being asked to contribute in whatever way you can. **SHARE** with us today!

◆ **DEADLINES** ◆

February 5 • April 5 • June 5
August 5 • October 5 • December 5

ON THE AIR

Bob Jensen, N.R.C. President

JOINING THE MOUNTAINS & PLAINS RADIO COLLECTORS ASSOCIATION

It is my pleasure to announce that the Nebraska Antique Radio Collector Club has decided to join the Mountains and Plains Radio Collectors Association. The vote was held at the annual Auction in Kearney Nebraska. This association will help the individual

clubs in it to communicate with each other and coordinate activities. The CRC flash is a great publication and it will become the Association newsletter.

If a radio related item is needed the classified ads will cover a much larger area and will have a greater chance to produce the desired results.

We will have some idea of the other clubs activities and meetings and possibly get a chance to attend.

See you at the first meeting in 1995!

Too Late To Classify

WANTED: Schematic or any other information on a TELEFUNKEN-Super Markstein II 855W Table top short wave receiver. Steve Morton 905 West 1st, North Platte, NE 69010

ROUND CONVEX DIAL GLASS: I have recently notice several ads from people who need convex round dial glass. These can be obtained from S. LaRose, Inc., 234 Commerce Place, P. O. Box 21208, greensboro, N. C. 27420. (919) 275-0462. Also any person who repairs clocks will have access to this catalog and others. Probably also most larger jewelry stores have a clock repairman.

The Nebraska Antique Radio Collectors' Club

This organization was founded in 1990 by Bill Shultz to provide a forum for people interested in old radios and radio history. Our purpose is to preserve as much of this radio heritage as is possible.

We have monthly meetings from March through October. The reason we do not meet in the Winter months is we move the meetings from various locations throughout West Central Nebraska and travel in this area can be difficult in the Winter months. We service Central and Western Nebraska and North Western Kansas. It's common for a member to drive half way across the state to attend our meetings. The highlight of our season is the Annual Auction we hold in Kearney.

These meetings provide an opportunity for members to exchange ideas and to buy and sell radios and parts. Meeting in the different locations give members a chance to show off their collections.

Stephen C. Morton...NRC Secretary

MINUTES OF THE
OCTOBER MEETING

FROM THE DESK OF THE SECRETARY

I want to take this opportunity to thank all the members of the **Nebraska Antique Radio Collectors Club** for their active participation and enthusiasm they have shown in the last year. Our association with the "Mountains and Plains" will provide an expanded opportunity for much greater exposure. I am excited about this new situation.

I do want to thank Bob Jensen, President, and Vern Killion, Vice President, for helping with the administration of this organization. Also, special thanks to Lavern Clark, Vern Killion, Randy Buss, Bob Jensen, Larry Iwan, Henry Harmoney, and all the others who helped make the annual auction another great success.

Summary of the Last Meeting...October 23rd

Our last regular meeting of the season was held at the KRVN radio studio in Lexington, Nebraska. At this meeting a report was read by the Treasurer, Steve Morton, explaining the results of the last auction and that a net income of \$109.04 was realized for the club. Vern Killion and Randy Buss reported on their recent trip to the VRPS Auction in Dallas. They were very much impressed with the displays and flea market. Also, Randy Buss reported on his activities in gathering information about the Western Manufacturing and Supply Company of Kearney, Nebraska that made a series of radios, especially crystal radios, under the name of Midway Radio Company. They were in business in the late 1920's until the late 1960's. We are hoping his research will turn up enough material for a nice article.

A review of the new book *Transistor Radios, A Collector's Encyclopedia and Price Guide* by David and Robert Lane was given by the Secretary. The meeting was adjourned to Vern Killion's house for a review of his collection and snacks.

Stephen C. Morton...NRC Secretary

WANTED: NEBRASKA RADIO INFO

Story content in the form of statistics, loosely gathered facts, complete articles...anything...any length...related to Nebraska radio, radio stations, or manufacturers needed.

Articles are planned for the next issues relating to:

**Kearney: Miniature Radio Builder
Midway/Pakette**

Hastings: 1924 "Mid-Continent Repeater" KFKX

We need your help in making these stories complete and in depth. If you can provide any information in any form, please send it to your editor as soon as possible. We'll write from your notes. Credit always given for your efforts. Thank you! Editors

COLLECTOR BOOKS

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The Collectors

From the Camera and Pen of Carolyn & Bill Hinkley

The Tomlins...

For David Tomlin, radios evoke his best childhood memories. As a toddler in 1942, Tomlin remembers propping himself up on his family's Philco console as they sang along to the Glenn Miller Orchestra or listened intently to the Bob Hope's Pepsodent Show.

"I always liked radios because I grew up hearing old-time radio programs", he says. "I remember being in diapers or Denton sleepers singing along with Bob Hope's Skinny Ennis band."

His interest grew while serving as an officer in the Signal Corps in Vietnam. Before heading off to mess hall in the morning, David would listen to Gunsmoke on the Armed Forces Radio Service. The show's impressive sound effects and repertoire of fine actors were pleasant reminders of his favorite childhood radio shows; thus, not long after returning to the States in 1969, he began collecting old programs. Now a fourth-grade teacher at Westgate

Elementary in Lakewood, David now has more than 1,000 shows and also belongs to the Colorado Radio Historical Society.

But he wasn't the only one in the family with a love for electronic nostalgia. His dad, who frequently lent an ear to an old Philco cathedral while working as a soda jerk in rural Oklahoma, was equally as passionate about the hobby.

"I got into radio collecting because of my dad", David says. "He loved 'em." We began collecting together in the mid-70s. My Dad was a real people person and had a way of bargaining with those selling radios. I'd search for all the good radios, and then he'd whip out a calculator and talk turkey. I was the ferret and he was the finances. But he always trusted my judgment as to what was a good find."

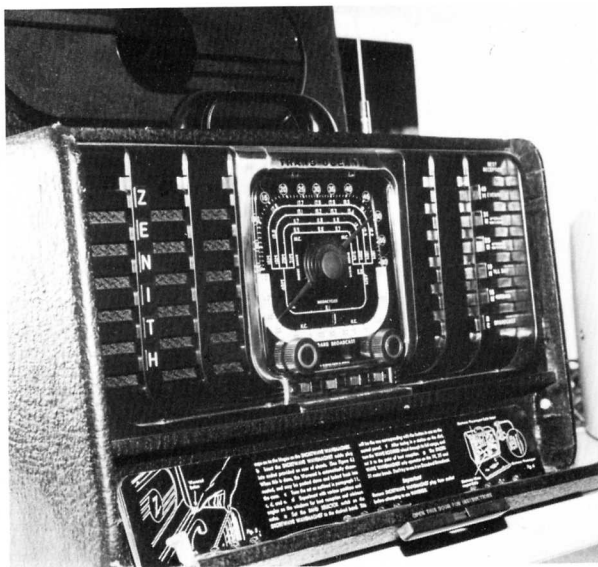
Their love of collecting intensified when the elder Tomlin moved to Colorado in 1984, with David following in his footsteps the next year. Together they increased their collection to about 175 radios, among them many Art Deco Philcos, black-dial Zenith consoles and a half dozen transoceanic treasures.




"We would hit the garage and estate sale circuit in the spring and summer, and then spend hours in the fall and winter restoring what we had amassed." But when his dad died in 1991, David lost interest in collecting as frequently, and let his three-year membership in CRC lapse. "Radio collecting was a way of sharing our lives together like no one else could."

Since then, David has renewed his membership and maintains an impressive display of their shared hobby. Among his most prized possessions is a stunning black dial 1946 Zenith transoceanic, which he proudly displays on a mirrored bookcase in his living room. Although interspersed in his collection are vintage tapestry cloth speakers and several early battery sets, David's favorites are radios from the 1930s to 1954.

With a bachelor's and master's degree in fine art, he especially likes Art Deco models from 1932 to 1939. He says because he always arrives 15 minutes too late, he hasn't been lucky enough to stumble upon "anything neat." But his collection of beautifully restored table, consoles and chair-side radios attests to the contrary.



David is more interested in the aesthetics of radios than the electronics. "I only know enough about electronics to be dangerous", he says humbly. "Things I can repair I do, and things I can't, I don't mess with." But with a peek into his basement workshop - immaculately equipped with just about any tool or manual a radio restorer would need--it's obvious David knows more than he is letting on.

Though he has slowed down his radio hunt to keep the family budget on track, he does have a penchant for flea markets. However, other antique treasures, such as old telephones, radio magazines, and Art 

SUPERIOR PRESENTS 5 INSTRUMENTS

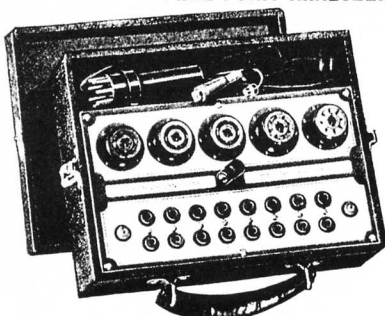
from its NEW 1100 series!!!! Never before has Superior offered so much for so little! Always the Best Buy in the Instrument Field, Superior in this new 1100 series gives you even more value! We have incorporated many refinements, many new features . . . all proven to be sound and practical. We urge you to read the descriptions below carefully; see how these instruments fit your needs. Buy direct from manufacturer and save 50%.

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SUPERIOR INSTRUMENTS ARE GUARANTEED FOR ONE YEAR

THE NEW MODEL 1175-S

FREE POINT ANALYZER UNIT



Complete with portable carrying case and cover.

May be used with any multi-tester or set tester for testing by the point-to-point method of isolating and locating trouble.

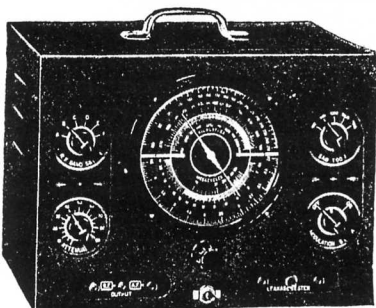
SPECIFICATIONS

1. Enables you to test tubes by the plate current method when used in conjunction with any multimeter. 2. Rapid current measurements under actual operating conditions without opening circuit for meter insertion. 3. Enables you to locate defects in any particular stage without removing chassis from cabinet. 4. Permits rapid and precise voltage and resistance measurements between any two points in a radio receiver terminating at a tube socket. 5. Standard R.M.S. numbered tube checker for quick indication of tube elements. 6. Scales use all R.M.S. values. 7. Complete with six slip-on adapters, slip-proof type analyzer plug, dual insulated test case. 7. Control adjustment panel, housed in heat-treated covered portable type cabinet, cover included. Model 1175-S complete in carrying case and cover, with all accessories included, all necessary adapters, plug, R.M.S. coated tube base chart and instructions. Shipping weight 7 pounds. Our net price

\$885

THE NEW MODEL 1130-S

Signal Generator with Audio Frequencies



SPECIFICATIONS:

1. Combination R.F. and Audio Signal Generator, R.F. 100 kc. to 100 Mc., A.F.—100 7,500 cycles. All Direct reading, all by front panel switching. 2. R.F. and A.F. output inherently obtainable alone or with A.F. (any frequency) modulating R.F. 3. Accuracy is within 1% on R.F. and Broadcast bands; 2% on higher frequencies. 4. Audio frequencies in 3 bands; 100, 500, 1,000 cycles and 7.5 and 15 cps. 5. Giant airplane full vision, direct reading dial. 6. Condenser and other leakage tested to 100 megohms. 7. All services on 90-120 volts A.C. or D.C. (any frequency).

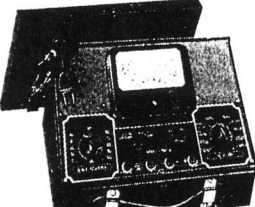
Model 1130-S comes complete with tubes, test leads, carrying handle, instructions. Size 12" x 3" x 11". Shipping weight 15 pounds. Our net price

\$1185

THE NEW MODEL 1150-S

SUPER-ALLMETER

Featuring the New Sloping Panel



A genuine achievement! For accurate and rapid measurements. Note the following features: A.C. and D.C. Volts, A.C. and D.C. currents, Resistance, Capacity, Inductance, Decibels, Watts.

SPECIFICATIONS:

D.C. Voltage: 0-15, 0-150, 0-750 volts D.C.
A.C. Voltage: 0-15, 0-150, 0-750 volts A.C.
D.C. Current: 0-1, 0-15, 0-150, 0-750 ma. D.C.
A.C. Current: 0-5, 0-150, 0-750 ma. A.C.
2 Resistance Ranges: 0-500 ohms
500-5 megohms
High and Low Capacity Scales: .0005 to 1 mfd. and .05 to 200 mfd.
3 Decibel Range: -10 to +10, -10 to +35, -10 to +55.
Inductance: 1 to 700 Henries
Watts

Based on 60 wv. at 0 D.I.R. In 500 ohms, .000500 to 600 Ohms new 4 1/2" square 0-1 d'Arsonval type meter with precision resistors housed in our newly devised sloping case for rapid and accurate servicing.

Model 1150-S supplied complete with test leads, tabular charts and instructions. Size 10" x 7 1/2" x 1 1/2", shipping weight 9 pounds. Our net price

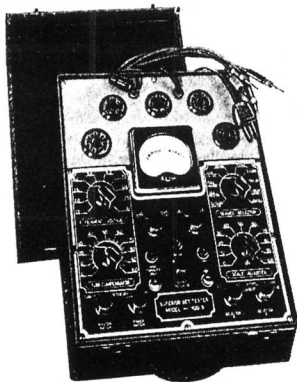
\$1185

THE NEW MODEL 1180-S

SET TESTER

A Complete Laboratory All in One Unit!

Featuring Our New Type Sloping Panel for Precise and Rapid Servicing



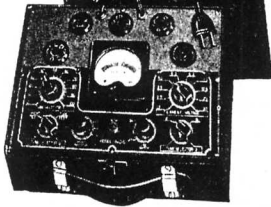
A complete testing laboratory all in one unit! Combines Superior models 1130-S and 1150-S. For specifications read the description of both these models here-with. Comes housed in sturdy, black case with sloping panel for rapid and simple measurements. Complete with test leads, tabular charts, instructions and tabular data for every known receiving type. Size receiving type, Model 1180-S with Portable Cover

\$1785

THE NEW MODEL 1140-S

TUBE TESTER

A really modern tube tester conforming to all standards of good engineering practice. Utilizes a 3" d'Arsonval type meter with calibrated scale. Furnished in a sturdy black case with sloping panel for easy operation. Removable cover and carrying handle for either portable or counter use.



A really modern tube tester conforming to all standards of good engineering practice. Utilizes a 3" d'Arsonval type meter with calibrated scale. Furnished in a sturdy black case with sloping panel for easy operation. Removable cover and carrying handle for either portable or counter use.

SPECIFICATIONS:

1. Tests all 4, 5, 6, 7, 8, 9, 10, and octal base tubes, including diodes.
2. Tests by the well-established emission method for tube quality, directly read on the G00012 R10 scale of the meter.
3. Affords separate mean test for leakage and shorts between elements.
4. All services performed by the use of only five controls at maximum, and many tests do not require working all the controls.
5. Supplied with instructions and reference table so that the filament voltage and emission measuring controls may be properly set for the commonest long life of tubes which include all tubes commonly encountered in servicing.
6. Works on 90-120 volts A.C. 60 cycle.
Model 1140-S comes complete with instructions and tabular data for every known receiving type of tube as well as many transmitting types. Shipping weight 10 pounds, size 10" x 7 1/2" x 1 1/2". Our net price

\$1085

SUPERIOR INSTRUMENTS CO. 136 Liberty St., RN-5 NEW YORK, N. Y.

Deco memorabilia, have been known to distract him.

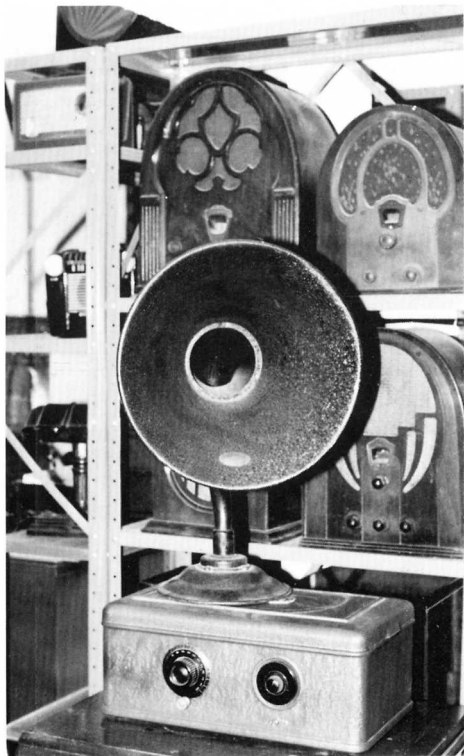
"We will eat Macaroni and Cheese for a month if we find a good Art Deco piece", jokes David. "We're part of that lunatic fringe that collect specific things to keep the market going. Some people kill for Avon bottles. But I draw the line there", he laughs.

David's wife, Renee, also gets a chuckle when describing a typical family treasure hunt. "You should see us at the flea market. Our heads are always on a swivel."

Renee, a freelance writer, is also no stranger to radios. Her father's avid interest in electronics led him to open his own recording studio, which provided Renee with her first job. Then, when he tinkered with stereo installation, Renee spent hours helping her color-blind father with wiring. "I don't know radios as well as David, but they aren't foreign to me. They also remind me of my childhood", Renee says.

The newlyweds married in October and live in Littleton with her daughters, Rachel, 8, and Katie, 11. When not buried in old Nancy Drew books, the girls delight in showing the family's collection to friends.

When they get older, they may realize even more how rare and special these pieces of the past really are. And if the family tradition continues, David just might get to see his grandchildren pulling themselves up to an old Philco console, too.



*(A very special thanks to Carolyn and Bill Hinkley, who were introduced to us last issue, for this interesting article about another family into old radio collecting. Surely, we'll see more from these CRC members! Editor) **



INTERNET ON RESTORATION

A Continuing Series (Part 1) From The Editor

(More of the radio-oriented hints/tips available through your computer from "rec.antiques.radio+phono".....)

Subject: Antique Radio Price Guide & Chronology

This is a self-running guidebook on a 3.5 inch diskette for IBM compatible PCs. Includes info on where to buy...where to sell....Runs on your PC. Normally \$15, but will offer it for \$6 postpaid to the folks on this usenet forum. Ck or m.o. Immediate shipment guaranteed.

Lexikon Services
3241 Boulder Creek Way
Antelope, CA 95843

=====

Grant Craig McGregor wrote:

>I would like to know if anyone else
>has encountered asbestos and felt
>compelled to do something about it.
>(On the other hand, has anyone
>encountered it and decided it wasn't
>a problem?) Does anyone know of
>any product that could be used to
>"seal" the asbestos fibres and still
>retain the fire resistant qualities?

Yes, I've run into asbestos sheets lining the cabinet, either under the chassis like you found, or on the "ceiling" of the cabinet to protect the wood or plastic from heat rising from the tubes.

My attitude is that it's been there 50+ years and all the little fibres that are going to go into the air and trash my lungs have long since come out and done their dirty deeds. So if the asbestos is where I don't have to disturb it (like on the ceiling) I leave it alone.

If it's on the bottom, then every time you slide the chassis in or out you may be breaking off fresh fibres. Maybe no harm if you only service the radio once a year or so.

There are lots of sealants, but not clear that any of them could stand the heat. Also, by compacting the asbestos, the sealants might make it more heat conductive and spoil the insulating effect.

BTW, I wonder about rail fans who restore steam locomotives, up to their elbows in the stuff...

M. J. Knudsen

It's not how many friends come to your funeral; It's how many collectors come to your estate sale that counts!

=====
DISCLAIMER: This information is based upon the experiences of me and my boss, your mileage may vary. Caution is most recommended in the handling of asbestos and any other hazardous material. I'd recommend getting in touch with someone at your state's environmental agency for further information...


A good quality shellac will seal the fibers in. Obviously, you'd want to make sure it's good and dry before you subject it to any heat...but the method was recommended to me for use on furnace ducting, so I assume its reasonably resistant to heat...

It is unsafe to handle Asbestos unless you are wearing HEPA type respirator and 'bunny-suit' for your protection. Disposal is a pain, it has to go in heavyweight plastic bags to your local hazardous waste site with proper paperwork.

Steve Ward, Jr., University of Portland

=====

Rick Burke writes:

As you probably already know, the 6U5 ("Magic Eye" tube) is difficult 

to find. You may wish to consider an adapter that allows you to use a 1629 tube which is very common. It is listed in the catalog from Antique Electronic Supply in Tempe, AZ. It took me about 3 months to find a 6U5 and finally I found one about 2 miles from home. I hope this helps.

Good luck, Bob, WA3SWA

=====

C. R. (Bob) Zinck writes:

> With regard to the discussion of
> component replacement, that is,
> desoldering vs the "hook and eye"
> method, I think I will go with the
> latter almost every time, particularly
> in regard to tube sockets, which
> often have three or sometimes more
> components mounted to one
> terminal. While they can usually be
> successfully desoldered, the
> mechanical unwrapping can
> sometimes be disastrous. Pots and
> switches are usually easier, with only
> one connection per terminal, and
> desoldering is usually OK here.
> Interestingly enough, in the days of
> the earlier T.V.'s, before PC boards,
> there was a little gimmick available
> (called a Quik-Clip or something)
> which was a small coil of tinned
> copper wire and you inserted the end
> of the cut-off component in one end,
> and the new component in the other
> and soldered them up. It was
> virtually essential with the
> component density in some sets.

There isn't any substitute for removing the old component, leads and all. It requires the right tools, plus some skill and experience, but you can get the old leads out without breaking anything.

1. **Soldering Iron:** I use a 25-35 watt "pencil" type with thermal control. They cost over \$100, but are well worth it. Keep it properly tinned, and wipe it on the sponge (comes with the iron in a little tray in the holder) before using the iron if it has been sitting more than a few minutes.
2. **Solder sucker.** I use a spring-loaded pump type. Heat the old

joint to melt the solder, then use the solder sucker to remove it. In many cases, two or three "pops" will remove so much solder that the old terminals are freed from the terminal. Some people like "solder wick" but remember that you are going to remove a lot more solder than you would from a printed circuit joint.

3. Small diagonal "**nipper**" pliers: Nip off one end of the old component's lead, leaving a short piece. It is much easier to get old leads out when the component end is free.
4. Fine-point **needle-nose pliers:** These have low thermal mass, and can be used to pick at the old lead to unwrap it.

The general drill is to move all other components out of the way so that you can get into the terminal. Remove the old solder, and wiggle the lead enough as the solder cools to create a cold solder joint. You can either open up the loop around the terminal, or use the nippers to nip it so that it will break off. You generally can use the soldering iron tip to support the terminal on one side to prevent it from bending while you do a little pushing or pulling. Pushing on the old lead end will generally open up the loop on the terminal enough that you can pick the loop open when it is cold, and slip the old lead out from the component end without having to straighten out the old loop end that was on the terminal. I remove components one end at a time, and keep a pad of notepaper to draw sketches and make notes so that I get the new component on the correct terminals. This is particularly important around coils and wafer switches.

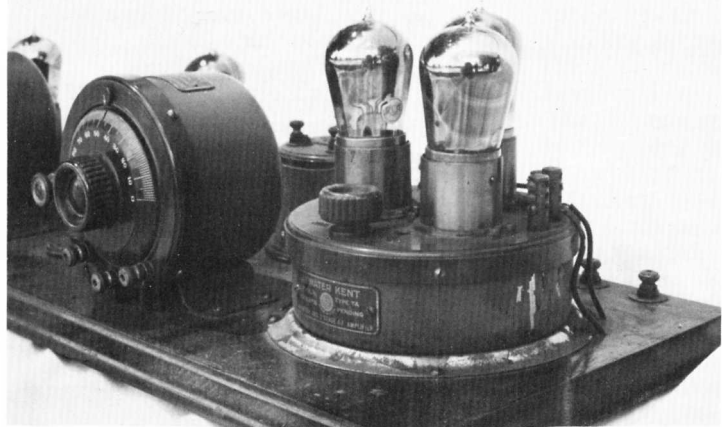
Hank van Cleef
The Union Institute
History of Science

=====

Barry Zimmerman wrote:

- > Check my memory on these models,
 - > the dial escutcheon is brown with
 - > possibly brown or translucent cross
- (Continued on page 19)

COIL ELECTRICS CONFLECTIONS



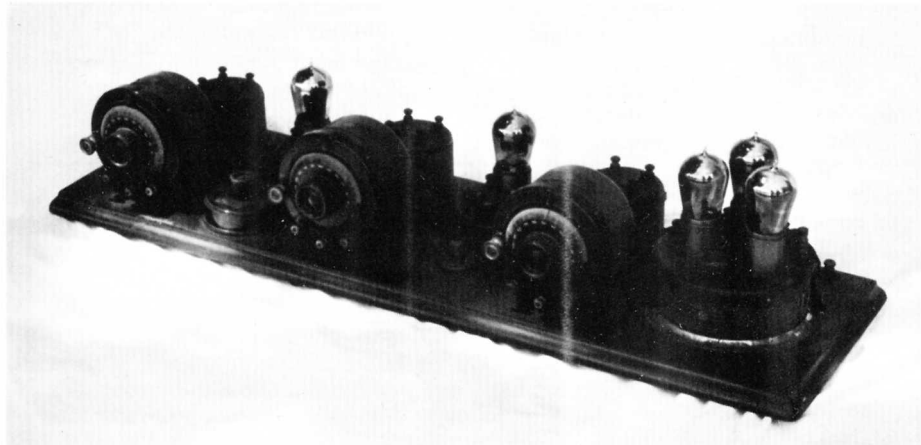
Lucky Stiff! Barney Wooters, out-going CRC President, was finally put on the spot. He must have thought we'd all forgotten about it. But, NOT A CHANCE!

During the last meeting an astute member asked him about the status of his friend's rare find, a 1923 Atwater Kent

breadboard Model 10 with green paint. Even more rare is the fact this set sleeps at night in its own original shipping crate! Wow! Barney was asked last spring to take the pristine radio and give it a once over and to assess a value, even though the owner didn't want to sell it.

But it seems Mr. Wooters' friend really wasn't interested in keeping the AK after all and was willing to swap! Barney told the club he had informed the friend the value of the console he wanted in trade for the model 10 wasn't nearly commensurate to the fine breadboard. To the friend, it didn't matter. He just wanted a radio he could plug and play; not a battery set.

Well, Barney just couldn't turn down that deal. Lucky Stiff! – Editor – ❄



The Open Trunk

4Sale:

- ◆ Mohawk Lyric Console. restored, front doors, P-P 45s....\$125
(continued below)

Wanted:

- ◆ Chassis for Philco 84 and chassis for AK48

Dave Gonshor
71215 Jellison Street
Littleton, CO 80123
☎ 303/ 979 • 9511

4Sale:

- ◆ Capehart 115N2, 25 tubes...\$150
- ◆ Tubes of all kinds....
- ◆ Test gear....
Possible trades for Arvin or Silvertone metal midgets.

Dan Busetti
☎ 303/ 644 • 4202 Home
303/ 398 • 8251 Work

Wanted:

- ◆ PARAGON "Amplifying Transformer Model 80" open frame audio transformer. Any continuity is okay, but decent shape. Will pay your price! Thanks for helping with long time project.

Rick Ammon
☎ 303/ 224 • 5446
303/ 221 • 4001

Wanted:

- ◆ ANY information about a "Gold Medal" radio. It appears to be a 1920s model with five 01As and may be a CONSCO Model 5-60. If so, I need info and/or a schematic for a "5-60".
- ◆ Arvin Phantom Bachelor
- ◆ Bezel for Coronado Model 587
(continued below)

4Sale/Trade:

- ◆ Echophone Ec114
- ◆ Arvin 444
- ◆ Airline 62-228 Chrome Chassis
- ◆ Crosley 66T6

Wayne Gilbert
☎ 303/ 321 • 6705

**ADS ARE FREE
TO MEMBERS!**

4Sale:

- ◆ Philco 38 - 12 wood, VG original...\$45
- ◆ Zenith 7S633, VG original...\$85
- ◆ AK55 LowBoy, VG original...\$125
- ◆ Gillfillan GN5, 3 dialer, XLNT, a Show Winner...\$75
- ◆ Resona Six, 3 dialer, XLNT...\$100
- ◆ Zenith 9S365, Stars & Stripes, Shutter Dial, XLNT...\$425

All the above are in good working order.

Tom Pouliot
☎ 303/ 988 • 1669

Zenith Model Numbers (Continued from page 4)

1936 and 1942. Unfortunately, the list is too long to print here. Could this be a clue to numbers of sets manufactured? Possibly, but the serial numbers are not necessarily contiguous, so it would not be easy.

Also, if the chassis number is all digits with the first digit a "1", then the number of tubes is the first 2 digits. If it's a "5", then the number of tubes is the second digit. For example, chassis "1103" is an 11 tube radio, while chassis "5419" is a 4 tube set. If the chassis has a letter in it, then the number of tubes precedes the letter as in "6B08" (6 tubes). This seems to work for chassis between 1936 and 1942. (Okay, so...who's on First? Editor) ✱

INTERNET... (Continued)

Barry Zimmerman wrote:

> bars which kind of separate the
> bands. The dial is a paper with gold
> or light brown embossed metallic
> coating and lettering printed on that.

Nope, sorry, the two D-721's I own both have tan plastic base material with a dark brown overprint and no metallic anywhere. The top band is AM broadcast with the extreme left (> 1500 KHz) labeled POLICE and the bottom band SW from 2 MHz to 7 MHz. (?)

After trying many antique restoration places, my final solution was back to Kinko's copies to sit with the operator at the color copier. I was able to get a very nice looking color copy of the one complete dial. I glued the copy to some thin cardboard and it is indistinguishable from the original when viewed from the outside of the case.

The trick is to be willing to adjust the color setting of the copier to get the result you want. The simple color scheme of this dial undoubtedly helped as well—and as a bonus, the copy has an worn look to it, as opposed to having a screaming new dial in a radio with a lot of "character" in the wood.

> As for the plastic crap, I once said
> "plastic is for wrapping sandwiches,
> wood is for radios", but once I started
> collecting them, I got hooked.

I'll keep my pro-wood stance, as I don't think that I can afford to get hooked collecting the spastic plastic fantasies... :-)

Tom LeMense

=====

Subject: Atwater Kent. What's it worth?

I have an Atwater Kent Radio. It has been in my family for many years. For about the last 20 years, it has been sealed in plastic in storage. The last time we actually fired it up was about 1969. It has a black steel cabinet about the size of an old IBM computer, a single tuning dial, and an off-on switch. I've been told these old radios are in demand. How would I find out how much this radio is worth and where would I find a collector or show where a radio of this type might be sold? I've been told Atwater Kent radios sometimes sell for several thousand dollars. Is this true? (I think we have a dreamer here! Editor) *

WHAT'S WRONG...

(Continued from page 5)

1. A 6C6 is never used as an RF amplifier tube. In a four tube TRF receiver, the first tube is always a 6D6 supercontrol RF amplifier tube. The 6C6 is a detector tube.
2. The RF coil is never mounted on top of the chassis; it is the antenna coil that is mounted in this position. The RF coil is mounted underneath the chassis for shielding purposes.
3. The 25Z5 rectifier tube should not have a grid cap on top of the bulb.
4. The resistance in the line cord is too high for the tubes used. It should be between 165 and 180 ohms.
5. Line cords on A.C.-D.C. sets are never shielded.
6. There is no dial-control knob shown. With only volume control and tone control knobs, there would be no way of selecting stations.
7. All the tubes have the wrong shape, since the 6D6, 6C6, 43, and 25Z5 type all have dome tops. The shapes in the sketch are those for the newer GT/G-type tubes.
8. The speaker is too close to the dial for practical use in a cabinet. *

On The Cover

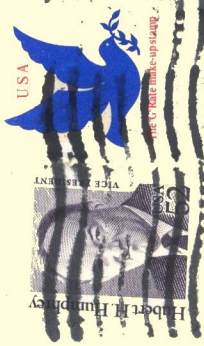
The Saint Valentine's Day card on our cover this month is a full color print on stiff cardboard. The eyelids pivot open and close by moving a small tab on the side of the head. The radio is a nondescript three dialer with dangerously exposed brass-based, tipped tubes. The earphones closely resemble Brandes brand with atypical red headbands. Needless to say, the set would be VERY DESIRABLE today! (The card was just a buck.)

Although, we'll never know the reason why the card was delivered to its previous owner, we do know by the handwriting on the back that "Emma S." gave it to "Mary" probably in 1924 or '25.

*Miss. 'N' Plains
Radio
Collector's
Association*

NARCA / CRC
5270 East Nassau Circle
Englewood, CO 80110

Fred Baibin
2545 17th Ave.
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