

The

FLASH!!

An Official Journal Published For Radio/TV Collectors

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

Volume 8

January



February 1997 Issue 1



In This Issue...

- ♦ Superhet' Piracy ♦ Building a Collector's Library ♦ Meet the Collector ♦
- ♦ "Hidden" Riders Info ♦ NARCC Auction Results ♦

Collector Books for Sale

**** Note: This list has been updated since the 11/96 Flash ****

CRC and NARCC Members get specially reduced prices from L&W Books of Indiana. Add \$1.00 for shipping and \$1.00 for the CRC per each book purchase. Other categories of books and ordering available at meetings. ONLY NARCC and non-Front Range by mail. The 1st price is suggested retail, 2nd is club price. All books our paperback volumes.

	Retail	Club
ANTIQUÉ RADIOS, COLLECTOR'S GUIDE - 4th EDITION Bunis, 1997 values, revised & updated, new photos, 248 pgs	\$18.95	\$11.37
GUIDE TO OLD RADIOS, POINTERS... - 2nd EDITION Johnson, 277 pages, 1995-96 prices	\$19.95	\$11.97
ANTIQUÉ RADIO RESTORATION GUIDE - 2nd EDITION Johnson, 144 pages, repairing, refinishing, cleaning	\$14.95	\$8.97
PHILCO RADIOS, 1928 - 1942 Ramirez, Rarity Scale, 185 pages, All Color, No pricing	\$29.95	\$17.97
RADIO & TELEVISION PRICE GUIDE - 2nd EDITION Harry Poster, 1994 values, 195 pages, Years 1920 - 1990	\$17.95	\$10.77
RADIO, EVOLUTION OF THE - VOLUME ONE 227 pages, 118 in color, More than 800 radios pictured and priced for 1992, picture from the collections of CRC members Jim Berg and Johnny Johnson	\$22.95	\$13.77
RADIO, EVOLUTION OF THE - VOLUME TWO All different from Volume One, 226 pages, Color, Radios of the 1920s - 1960s, with 93-94 values, pix from CRC member Jim Berg	\$24.95	\$14.97
TRANSISTOR RADIOS, COLLECTOR'S GUIDE VOL II Bunis, 1996 prices, Full Color	\$16.95	\$10.57
TRANSISTOR RADIOS, COLLECTOR'S ENCYCLOPEDIA Lane & Lane, 1994-95 prices, 168 pages, Photos, 2200 listings	\$19.95	\$11.97
ZENITH TRANS-OCEANIC, ROYALTY OF RADIOS Bryant, 1995 Price Guide, 160 pages, History/Restoration, 100 Photos	\$24.95	\$14.97
RADIOS BY HALLICRAFTERS Dachis, 1996 values, 220 pages, 1000+ pics, id's, history	\$29.95	\$17.97
CLASSIC TV'S, PRE-WAR THRU 1950'S 86 pages, color & b/w pics, descriptions, etc.	\$18.95	\$11.37

Official Journal of the
*Mountians N' Plains Radio
Collector's Association*

Dedicated to the preservation and understanding of wireless,
through the united efforts of organizations throughout the Rocky
Mountain region and the Great Plains.

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ABOUT THE COVER

This month's cover features the Nebraska Antique Radio Collectors Club 1996 Auction.

That gentleman you see, with the smile that's permanently affixed to his face, is the proud new owner of a Scott Philharmonic console! Read about his treasure and all the others found at the NARCC '96 auction on page 11.

FLASH!! PUBLISHING DEADLINE NOTES

It's the intention of this Editor to mail our journal bi-monthly just prior to the 2nd Sunday of the issue month. Articles about, and pictures of your treasures, are welcomed as are **Want/4-Sale** ads and any letters or comments about our hobby. All material used are the copyrighted (C) property of the **Colorado Radio Collectors**.

The article submission deadline dates are set to allow timely mailing in the following month. These dates are the 1st of Feb., Apr., Aug., Oct. and Dec.

** ADS ARE FREE TO CRC & NARCC MEMBERS **

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Thanks to the *Pressworks* for printing the FLASH!!
(303) 428-8600

Kudos to this month's Flash contributors!
Wayne Gilbert, Dave Gonshor, Bob Jensen,
Dave Tripe, Larry Weide



Colorado Radio Collectors Antique Radio Club

Founded October 1988

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

MEETING LOCATION

Unless otherwise noted in this Journal, meetings are held on the second Sunday of every other month starting in January (except: 3rd Sunday in May) at 1:00PM at the **VectraBank Bank Building**, Community Room, 1380 South Federal Bl. A swap meet follows the meeting in the parking area.

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ALL DUES

\$12.00

ANNUALLY

(Joining dues prorated to June 1)

Dick Hagrman
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WANT ADS
and
ARTICLES

Should be directed to;

Larry Weide
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Englewood, CO 80110

ON THE AIR

No Time Like The Present

Dave Boyle, C.R.C. President

Fellow Club Members:

I hope everyone had a good holiday season by finding both a Sparton Blue Mirror and AK 90 under the Christmas tree. With only 2 meetings between now and the annual radio show this would be an ideal opportunity to express my thoughts on this most auspicious event;

- The Coliseum Antique & Collectibles Radio Show is typically the Club's "main event" of the year and was designed to be... "by club members for club members".....sooooo..... to this purpose let's all really endeavor to join in the fun.
- The operative word this year is diversity -- no, not cultural, but radio and related stuff. Everyone bring one, or two, or three or more of their favorite and/or unusual styles -- share with your peers and public alike. We have over 20 categories to enter. Maybe we will even resurrect the UGLIEST radio contest!
- You don't have to enter into the "contest" to participate, simply bring the radios/related stuff to the show - that's what it is all about.
- Don't forget that this is also one of our larger swap meets.
- Our spouses and significant others can enjoy the on-going collectable/antique show at the same time. Our theme auto-bee: "something for everyone". Let's make it happen,

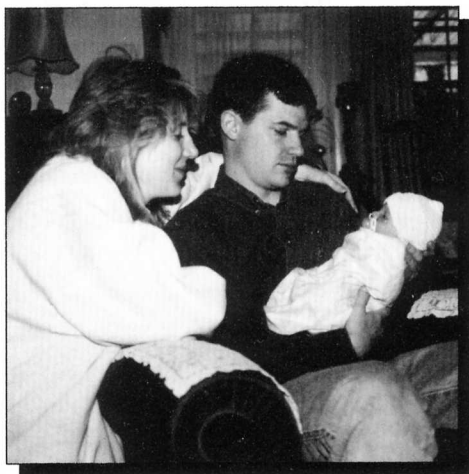
The agenda for the January 12th. Meeting includes a talk by our very own Wayne Gilbert on some historical aspects of old radio broadcasting. Let's have a great turn out - Dave



Introducing America's First Couple!
That's right, it's.....



**Bill (Hinkley)
with Bill Sr.
and Carolyn**



and...



**Hillary (Lutkus)
with Matt and
Karen**



Congratulations to all!





CRC at the Symphony!



In mid-September the CRC was asked to provide a display of radios from the 1930's to enhance the opening night theme of the Colorado Symphony Orchestra's '96-'97 season. Here we see Dave Boyle and Barney Wooters chatting with Marin Alsop, the Symphony's Principal Conductor.

NEBRASKA ANTIQUE RADIO COLLECTORS CLUB

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Nebraska Antique Radio Collectors Club

President's Column

by Bob Jensen

The holidays have been here and gone, and it is my sincere wish that the jolly man in the red suit left you some radio goodies under the Christmas tree.

Winter is here and the club activities are at a standstill. A winter storm forced us to cancel the last meeting of this last year at Oberlin, Kansas. The distances traveled make it a great risk if there is the possibility of a storm. The winter months should give us the time to contemplate the direction that we want to take the club in the next year. We should take the time to think of some activities and functions that the NARCC could become involved with in 1997. If anyone has some ideas, bring them to the first meeting of the new year.

1996 has brought us a new challenge with the joint Auction with HARA (Heartland Amateur Radio Association). I think that the auction went well with all things considered. We are lucky to have people in the club that could share resources from the other clubs that they are also involved in. The auction was a success for the club with all of the items that the HARA members brought to sell as well the items brought by the NARCC. The HARA people were helpful and a pleasure to work with. It was great to see a Scott Philharmonic at the auction, that is something I have never seen for sale at past club auctions. There must still be a few of them out there waiting to be discovered.

I would like to take a few lines to thank everyone who helped make this past year the success that it was, to Gary Reiss and Vern Killion for coming through with a contingency plan for the club auction. To Steve Morton and family that help with getting the reminder cards out, and the other duties involved with the Secretary-Treasurer office.

Thanks goes out to Larry Weide and the staff of the FLASH for their work on the material sent to them (most times next to or on the deadline). Thanks also to all members that participated in the various events and meetings and also lined us up with places to meet. Maybe next year will be even better.

The first meeting of 1997 will be announced at a later date. If you can, bring along a radio or two to show to the rest of the club.

See 'ya at the next meeting!

Bob

From the Desk of the Secretary

by Steve Morton, NARCC Secretary-Treasurer

Nebraska Radio Club Announcements

After another successful season, the Nebraska Antique Radio Collector's Club has recessed until next March or April. Watch for the announcement for the return to monthly meets. We probably will have an organizational meet at KRVN Studios in Lexington to plan the 1997 season.

It was regrettable that the weather was so threatening that the meeting at Howard and Joanne Lahman's in Oberlin, Kansas was canceled. But that is the weather in western Kansas and Nebraska at this time of year.

A very special thanks to Bob Jensen and Vern Killion for being officers for the 1996 season. Their leadership was essential for making the season a success and is gratefully appreciated.

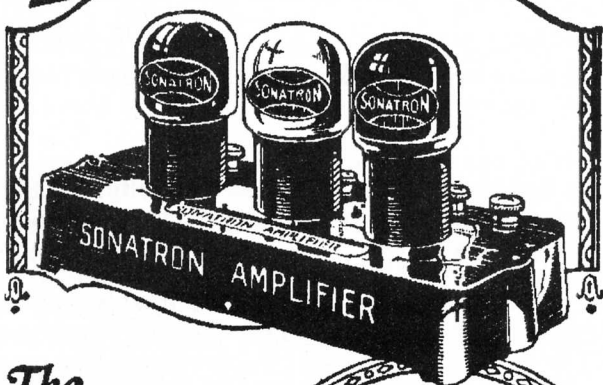
Restoration Tip

When looking around antique shops, flea markets and auctions, don't pass up those Atwater Kent 35 radios or E speakers just because they are dirty and the paint is shot. A good paint to use is made by Vogel Paint and Wax Company; Cote-All multipurpose Enamel - AZ-9401 satin black with a shot of MM8 red added.

This produces a good shade of AK brown. There seems to be about as many different shades of AK brown as there are collectors! This give good results that you may like for less than ten dollars a quart. This paint was specially formulated by Vern Killion, and he used a paint matching computer with an E speaker as a source.

Steve Morton, NARCC Secretary/Treasurer

New!



*The
Sonatron
Amplifier
with 3
Red, White
and Blue
Matched
Power Tubes*



The Newest Product

NARCC 1996 Auction Report

by Bob Jensen, NARCC Member

The 1996 annual Narcc Auction was held on Saturday, September 21st at the KC hall in Lexington, Nebraska. This is the first year that the auction was held in conjunction with the Heartland Amateur Radio Association. The KC hall in Lexington Nebraska provided a place large enough to house the varied assortment of Amateur and antique radio items.

auctioneer for the event was Randy Reiss of Double R Auction Service. The bidding was lively with the buy back provision in effect, this is the first year that the NARCC has used that system. The auction lasted about 4 hours, an amazing time considering the volume of radios and equipment sold by the members of both clubs. A concession stand was there in



There was quite a few radios that provided interest to the members of both clubs. The

the building that seemed to be busy most of the time. The iced tea and coffee were flowing for nearly the

whole event. The proceeds for the NARCC were about the same as last years auction. A number of antique radio items were brought to the auction and sold by members of the Heartland Amateur Radio Association which are not listed in the NARCC auction results.

This year's auction had a surprise show up on the auction block in the form of a Scott Philharmonic in fair condition. It is not often that one of the Scott radios will show up at a NARCC event. The bidding became fast and furious when the Philharmonic was finally wheeled up to the front of the room. Overall the auction was a success for the members of both clubs and there was plenty material for sale.

LISTING:

Condition of the radios and items were good unless otherwise noted.

<u>Radios</u>	<u>Hammer Price</u>
Airline Bakelite	12.00
Atwater Kent 30	65.00
Atwater Kent 33	50.00
Crosley 51	80.00
FADA Kit set	37.50
Freed EisemannNR-7	85.00 ✓
Grebe MU-1 -P w\tubes	35.00
Hallicrafters S-38B	40.00
Hilodyne Bat. set w\tbs	50.00
Homebrew Bat.set	20.00
LaMoines Table radio	50.00

Majestic 7P420	30.00
Motorola Table	13.00
Philco 610	35.00
Philco 4595	3.00
Phillips Shortwave table	20.00
Philmore Xtal set w/box	38.00
RCA 5T	20.00
Scott Philharmonic - fair	560.00 ✓
Silvertone 7104	4.00
Sparton 87	40.00
Stewart Warner 300 w/tbs	45.00
Western mfg xtal-Tinytone w/box	40.00
Zenith Transoceanic R600	70.00
Various plastic radios	1.00-5.00

Transistor & Novelty Radios:

Blabbermouse	11.00
Philco (1958)	8.00
Telephone novelty	16.00

Tubes:

Lot of 10, 01A tubes some w/boxes	29.00
Lot of 10, 01A tubes	25.00
Lot of assorted tubes some 01A's	20.00
Lot of UV199's BB	16.00

"8-in-line", Codename for Superheterodyne?

by Wayne Gilbert, CRC Member

Did your father or grandfather knowingly commit a crime? It's likely he did if he bought a superheterodyne radio between 1924 and 1930 from anyone other than RCA. It's also likely that both he and the seller knew they were skirting the law.

There were a few legal superhets sold under RCA patent licenses during these years, but it appears that far more "pirate" sets were sold than most collectors realize. Magazine articles, and even books, have been written about RCA's refusal to license its superhet patent and its diligence in prosecuting anyone with the audacity to defy them. So why did so many people risk so much and expend so much effort to own a superhet radio? A quick review of radio's history provides some insight into the mind set of the average radio customer of the 1920s.

Broadcast radio's history can be said to have begun with the licensing of KDKA in 1920. Radio "sets" led the way, but as radio circuits became more complicated, the components and connecting wiring were gathered into one cabinet. Regenerative circuits were added to increase sensitivity, TRF sets were "Neutrodyne" to cut the squeals, and finally the superheterodyne set replaced them all, in a space of only a few years.

World War I had forced large and small radio manufactures to work together, but the war's end brought about the consolidation of several radio companies into one large conglomerate. By 1924 RCA, the patent-holding arm of the conglomerate, had sown up patents on most new radio technology, including the superheterodyne circuit. This left the smaller radio manufacturers with designs that were yesterday's leftovers.

The superheterodyne radio circuit that RCA patented, and others coveted, utilized a circuit that was originally designed and patented by Edwin Armstrong. This patent was then sold to RCA. Any set utilizing that circuit design had to pay a royalty of up to 7 % to RCA, who was not at all shy about demanding that payment. The catch was that RCA was very, very reluctant to license radio manufacturers to build these sets.

RCA not only controlled radio production with their patents, they also effectively controlled the price of radio sets as well. A good example is the Brunswick-Balke-Collender company, who had somehow obtained a license to produce a superhet radio. Their model 5NC8 cost \$375, while their deluxe superhet model 148 sold for \$995. As expensive as these sets

were, they were priced comparably to RCA's models of the same period.

These high prices looked very tempting to the small manufacturer who could easily produce and profitably sell an 8 tube superhet for less than \$200. The huge price tag of the licensed radio also looked very formidable to the average consumer, who made about \$1500 per year.

At first, the small radio manufacturers resorted to various ploys to circumvent the superheterodyne and its advantages. One way was to 'soup up' the old standard TRF and neutrodyne circuits. Unfortunately, as more stages were added to these radios, the complexities of operating the radio increased. Various schemes were devised to simplify operation, with pulleys and belts ganging tuning caps together, and when this proved to be kludgy, others designed totally new units to be added as front ends for existing sets.

Unfortunately for the small manufacturers, the buying public had changed from being the radio nerds of the wireless era to being the Sheiks and Flappers of the Roaring 20s. The public wanted to play their radios, not *play with* their radios. Buyer's resentment grew as more of the public learned there was a better set to be had, if only RCA would loosen its monopolistic control of the patents. The scene was set for a buyer's revolt, and there was a way to beat the system.

There was a legal loop hole, and many small manufacturers jumped through it with little hesitation.

Superhets could be legally produced and sold as kits, and very soon the term 'kit' came to mean different things to different people.

Some manufacturers, like Atwater Kent, sold kits that were basically boxes of components. They let the purchaser assemble the radio from scratch. Others, like Boulderadio, assembled the components and housed them in a sealed unit. These sealed units required little more than the connection of an antenna, a speaker and power. They could easily be ready to play within an hour after their purchase.

Such sealed kits also had the advantage of giving consistent successful results and quickly became very popular to a growing number of customers who had little knowledge of radio technology. These sets were often identified as an "8-in-line," due to their tube count, and the buying public soon realized that when they saw the advertisement for an 8-in-line kit, they were seeing an advertisement for a superhet radio kit which performed as well as a much more expensive RCA licensed radio.

Soon 8-in-line units (kits?) were being produced by several other small, or not too scrupulous, radio companies across the country. Some others simply marketed the Boulderadio 8-in-line as though it were their own product. All seemed to have one objective: cash in on the superhet's popularity, and if possible, don't pay the RCA's licensing fees. The buying public rewarded their efforts, apparently deciding the definition of a

kit could be expanded to cover these sets, and undoubtedly, many buyers justified their actions as a protest against RCA's licensing policy.

RCA still had one more card to play in this high stakes game. By law, RCA had to sell replacement tubes for existing legal sets and tubes to amateur radio operators, but it did not have to supply any extra tubes that could be sold to pirate manufacturers. First, they dropped any distributor who sold only tubes, then they implemented a policy of requiring an old tube for every new tube sold as a replacement.

Ironically this policy hurt both the small manufactures and RCA. Boulderadio, like most of the others, didn't last long when it came to a fight with the RCA. Most of these small manufacturers simply produced and sold radios until they were caught and then either paid up, or folded up, to reopen under a new name. But there were just too many of these small companies, and some sought help from their congressmen. Congress finally became concerned with the absolute control exerted by RCA and their parent conglomerate and implemented new laws to regulate the radio industry. By 1930 the courts had ruled against the big conglomerate and RCA began to license its superheterodyne patents. With that, the 8-in-line kit radio era ended and a new age for radio began.

Resources:

Ammon, Rick. Email Interview. September-October 1996.

Barnouw Erik. A Tower in Babel New York: Oxford University Press, 1966.

Barnouw, Eric. The Image Empire New York: Oxford University, 1970

Furney, Doug. Telephone Interview. September 1996

Langley, Ralph. Radio Collector's Guide, California: Vintage Radio, 1973.

Paul, Floyd. Los Angeles Radio Manufacturing, Paul: California.

Rutland, David. Behind The Front Panel, Philomath, Oregon: Wren, 1994.

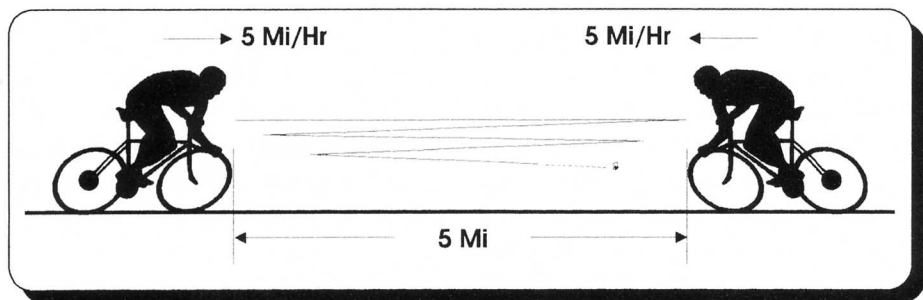
"The World vs RCA: Circumventing the Superhet" IEEE Spectrum, February, 1983: 67-71.

Radio Riddle - Word Puzzle

by

Larry Weide, CRC Member

Barney Wooters, a member of the CRC, once told me about the time he and a friend were out delivering radio parts on their bicycles. Now at the time, Barney was living in the great (but largely flat) state of Texas. Not only are some of the roads there perfectly flat but they're also perfectly straight too. On this particular day Barney and his friend had arranged to meet for lunch somewhere off of one such road that they were both riding on. So, by synchronizing their watches, they started out at exactly the same time pedaling toward each - both at 5 mph. They were 5 miles apart when they first started out.



So who cares? Well, the interesting thing is that Barney happened to notice that there was a fly sitting on his handle bars. The moment that he began to move the fly took off and made a bee-line (fly-line?) toward the other bicycle at 10 mph. And so back and forth the fly went from bike to bike, never slowing down or speeding up and never stopping until the bikes met.

The question is, how far did the fly fly?

(Answer on the inside back cover)

Building a Radio Collector's Library

by Dan Buseti, CRC Member

This is the first of a two-part series that addresses the why, how, and what of building your own radio collector's library. In this article, I will talk about technical and informational resources that I have found helpful. Part two will deal with advertising, magazines, and picture and price guide books.

Why build your own library? If you want to repair your own radios then technical resources are a necessity. If you simply want to understand how they work or how to differentiate between simple and complex chassis, you will need some kind of reference material with that kind of information. Technical resources can also provide accurate dating information. If you collect tubes or related paraphernalia, older catalogs and texts are priceless.

I will classify libraries into three categories: basic, advanced and expert level. For the basic library I recommend the following books;

- A basic tube manual such as the RCA RC-17 or RC-19 as offered by AES, or the 8 1/2 x 11 size RCA "Receiving tubes and

picture tubes" from 1957 which fits into a three-ring binder.

- An elementary electronics or tube theory text such as Ghirardi & Johnson's "Radio and Television Receiver and Circuitry and Operation" (1951).

- Schematics such as Beitman's "Most Often Needed Diagrams", various years.

- A simple how to do it book such as Carr's "Old Time Radios!".

Most of these books are available either from AES or from a local used book store. Many times these books and others like them can be found at estate and yard sales. In the past couple of years, I have found many copies of Beitman's at yard sales for a couple of bucks a piece. Through the years (30's - 50's) Ghirardi has published numerous texts and technical volumes of varying complexity.

For the advanced collector I recommend the following books in addition to the above;

- An engineer or designer-level tube manual such as the Sylvania 11th edition from the late 50's. This volume contains detailed information about most American-

made tubes and has inserts with updates. It also gives circuit information and design tips.

- All of Beitman's "Most Often Needed Diagrams" -- set runs from 1926 to the early 50's .

- Ghirardi's Radio Troubleshooter's Guide, 3rd edition or later, or Ghirardi's "Modern Radio Servicing".

- Index to Rider's "Perpetual Troubleshooter Manual" or 5th edition or later of Mallory --Yaxley "Radio Service Encyclopedia" (Mallory's has a Rider's index in it)

As you can afford them, start picking up;

- Rider's Manuals (anywhere from \$15-50 each, or \$250-400 for a set).

- Individual manufacturer service manuals, such as the Zenith Volumes 1 & 2 or the RCA Red Books.

For the expert level collector who may also be repairing radios for others, I recommend these books in addition to all of the above:

- A complete set of Rider's Manuals and indices .

- As many manufacturer service manuals as you can find .

- Middleton's Receiving Tube Substitution Guide or Sam's Tube Substitution Handbook .

- Ghirardi's Radio Physics Course .

- Technical magazines such as Radio News and Short-wave Radio.

I usually pick up spare books whenever I find them cheap or free. I keep the best copies and sell or trade the lesser ones. If I could get only a few books, my "must buy" list would include any Mallory --Yaxley, 5th edition or later, and some kind of tube manual.

In the next installment, I will cover advertising, magazines, and picture and price guide books.

Dan

Riders "Hidden" Supplemental Information

by Larry Weide, CRC Member

By request, the following is a re-print of a previous Flash article dealing with hard to find yet readily available technical information.

It turns out that throughout the Rider series of the "Perpetual Trouble Shooter's Manual", known to most of us as simply "Rider's", there are inserts of data that concern various techniques and components that were widely used by particular manufacturers. The problem is that there's no index nor particular logic for the location of this data. Unless you just happen to run across an item you may not know it's there.

For example, I just recently acquired a Philco Model 112 console. When I was perusing through it's diagram on page 466-4 of Rider's volume II (by-the-way, Philco at this time is still known as the Philadelphia Storage Battery Co. in Rider's), lo and behold, I discovered a very complete description of Philco capacitor and resistor potted modules on the very next page! A stroke of luck for the unwashed since there's no reference anywhere in the manual.

So, with a whole lot of scanning, and a bunch of help from Dick Hagrman, I've compiled another list of lists that I hope will be helpful to you folks. You'll notice that data is limited to only a few manufacturers. Presumably this is because they're the only ones that presented it to be published, but then they also represent a goodly portion of the radios produced during these periods. Also, I've limited my search to Rider's since these manuals are already in the hands of many us, and they're also available in public libraries. I might also mention that the first two volumes of my particular set of Rider's were published for the National Schools. Therefore, there may be some discrepancies in page numbers between your volumes I and II and mine.

VOL	PAGE	DESCRIPTION
I	Front	Lots of data on early tubes, techniques, specific model "peculiarities", theory, power, speakers, testing, etc.
II	466B3	Capacitors - wiring, color codes, values (Philco) part no's, Resistors - values, color codes, part no's Coils - part no's, Model use
	568-A	Resistors - color codes, values, part no's (Sparton)
III	177	Tubes - requirements, some types (At. Kent) Resistors - values, unique color codes, part no's
	3-1	Tuning Condensers and Alignment Notes (Crosley)
	3-44	Chassis Data for many Models
	3-53	Tubes, Ballasts and Pilot Lamps Specs.
	3-46	Changes to Certain Models for Lowering Freq. (Philco)
	3-13	Vibrator Unit Service Data (RCA)
	3-77	Tube Specifications (RCA)
IV	4-1	Automobile Antenna Data - many makes (Motorola)
	4-17	Vibrator Unit Service Data (Grisby Grunow)
	4-44	Speaker Specifications
	4-47	Vibrator Age Dating, auto ground polarities, (Philco) flexible shaft components
V	5-23	Capacitor, Resistor, knob data (At. Kent)
	5-6	Special Tube Specifications (Sparton)
VII	7-147	Model Change Bulletins
	7-151	Dial Drive Assemblies (Philco)
	7-1	Various Model Change Bulletins
VIII	8-87	Alignment Trimmers for Various Models (Philco)
	8-6	Phono Circuits - 1938 Receivers (Zenith)
	8-1	Various Model Change Bulletins

At this point you will find a change bulletin section in many of the remaining Rider manuals. Starting in Volume XII you will find "clarified schematics" in which band changing circuits are detailed.

XIII	13-1	Antennas, tone arms, model changes and (RCA) ballast tube data
XIV	14-31	Auto models - tuning procedures (Philco)
XV	15-81	Style, chassis, changer, speaker, etc. (Magnavox) cross reference chart.

Meet the Collector Bob Stutzman

by Tom Pouliot, CRC Member

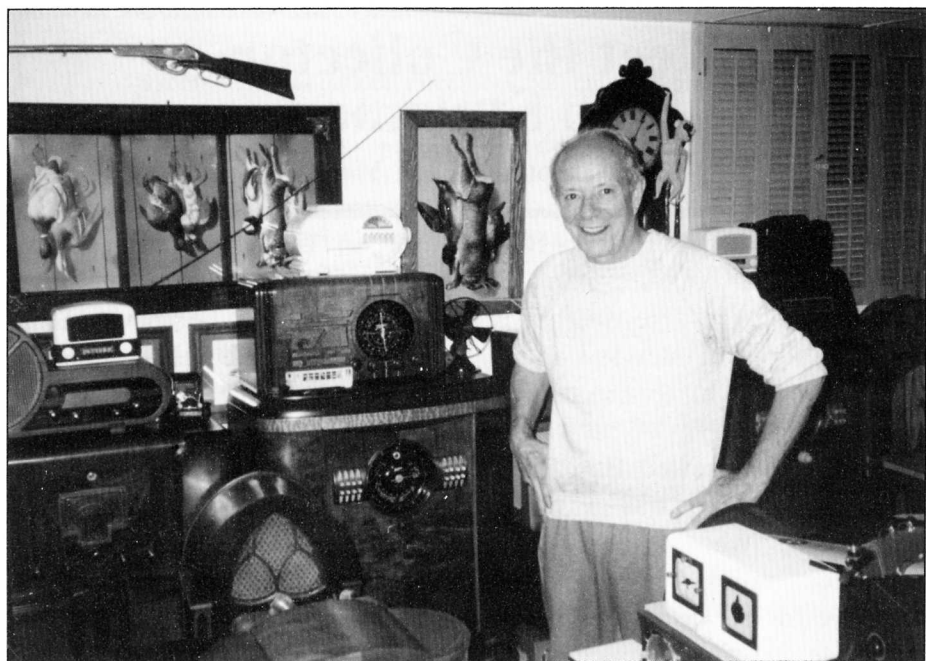
This month's article features Bob Stutzman whom I'm sure many of you will recognize. He was brave enough to allow an interview and it was a real delight to meet with him.

Before I interviewed Bob, all I knew was that he was a warm friendly guy who probably had some nice radios - the kind of person you'd like to get to know better. He doesn't talk much about what he has, so I was surprised to discover that he's really a major

player in this collecting hobby. He's been a club member since 1990 and says that he's never met a radio he didn't like. His collection testifies to that!

I enter their immaculate home and spot a beautiful breadboard, catalin, chairside, etc. I'm impressed with all the magnificent wall clocks, and then we enter the basement where all useable space is filled with radios and other collectibles: crystal sets,





breadboards, cathedrals, many Zenith consoles, portables, novelties, bakelites, painted metal, clocks, trains, cameras, toys, and all are in prime condition. Bob is highly skilled in furniture refinishing. It seems that most of his radios look like they just came out of the box. The finishes match the original in color and quality or better.

Bob grew up in Ohio, joined the Air Force in 1950, and went to Korea. He wanted to fly but was trained as a dental lab technician. Shortly after the war, he moved to Denver, worked in the graphic arts field, and was a production manager at an ad agency until his retirement three years ago. He has

four children. One of his sons, Jeffrey, lives in California and likes to collect the early battery sets.

One memory of early radio that he has is listening to programs on his family's Philco 76 and having to pound on the top of it to get it working. After listening to the Lone Ranger on radio, he says his biggest disappointment was seeing the Lone Ranger on TV. The silver screen just didn't live up to the image in his mind from listening to radio.

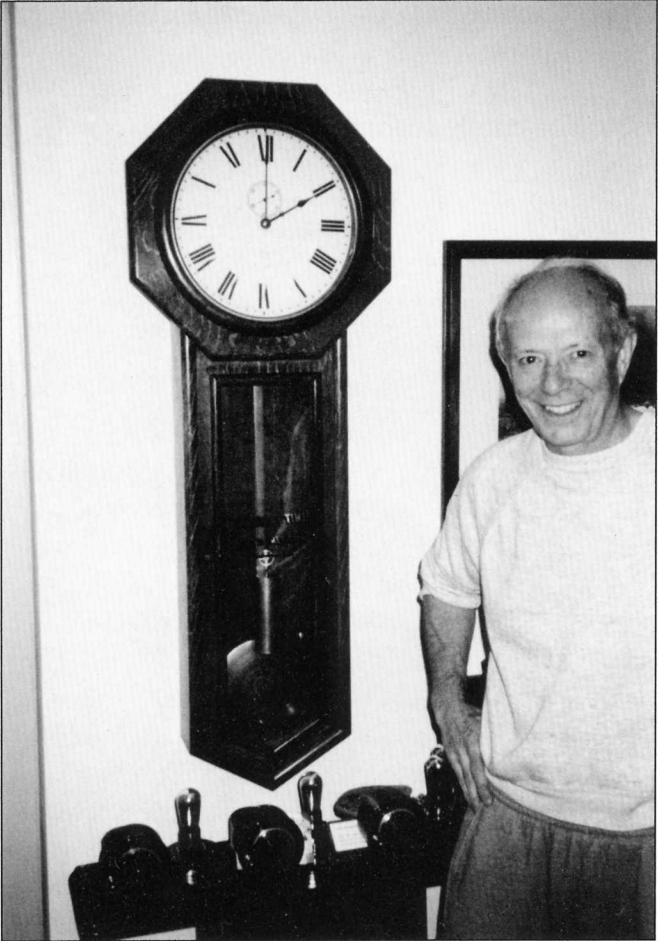
He is really enjoying retirement. He and his wife Barbara, also recently retired, were able to take a five week trip to the East Coast

this fall that included stops at Elgin and Rochester. He picked up some fine radios at Elgin.

He started collecting clocks when his father gave him a clock that belonged to his grandfather. I've never seen so many grand and beautiful clocks so nicely displayed in one place. He says he's always been collecting something. At one time he had a beer can collection of over four thousand cans.

Thanks Bob for briefly sharing with us. We are privileged to have you in our club.





Radio Riddle - Word Puzzle Answer

The solution to this problem is as easy as falling off a logarithm! The thing to do is determine how long the boys took to make their journey, since this will also be how long the fly was flying.

Since both boys traveled half of the 5 miles at 5 mph, the time they traveled would be calculated by dividing the distance that one of them traveled by the travel rate;

$$t = d \div r$$

$$t = 2.5 \text{ miles} \div 5 \text{ miles.per.hour}$$

$$t = 1/2 \text{ hour}$$

Now, that we know the fly was flying for 1/2 hour, and that he was flying at 10 mph, it's easy to see that he flew a total distance of ...

5 miles.

The Open Trunk

4 Sale:

- ◆ Reproduction lid tags with warranty card for the Crosley 51, 51P 51E and 51SD... \$4.00 each. When requesting one, please send the serial number of the set.

Bob Jensen

420 Grand Avenue
Alliance NE 69301
308/762-7391

4 Sale:

- ◆ At last, reproduction grill cloth is available in Denver! Many patterns *and* sizes. Personal pickup, or mailed with charges. Sorry, no mailable samples are available.

Dick Hagrman

3429 W. Berry Pl.
Littleton CO 80123
303/794-6674



*Mts. 'N' Plains Radio
Collector's Association*
CRC/NARCA
5270 E. Nassau Cir.
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