

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

March



April

1997

Issue 2



In This Issue...

- ♦ CRC Show/Sale Info! ♦ Solving Hum Problems ♦ Building a Library - Part II ♦
- ♦ Resistive Line Cord Replacement with Capacitors ♦ A Collection for Sale ♦



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 are 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... - 2rd EDITION Johnson, 277 pages, 1995-96 prices	\$19.95	\$11.97
ANTIQUÉ RADIO RESTORATION GUIDE - 2rd 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.

Volume 8, Issue 2

March/April 1997

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ABOUT THE COVER

This month's cover features but a small sample of Leamon Brooks' fabulous collection of very early radios. Here we see "three dialers", horn speakers and crystal sets.

One of Leamon's most historically interesting pieces is a Capehart radio/phono console, which automatically flips over 78 RPM records, that belonged to none other than Denver's own Baby Doe.

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!
Dave Boyle, Dan Buseti, Leamon Brooks,
Dave Gonshor, Ron Smith



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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Colorado Springs (719) 495-8660

ALL DUES

\$12.00

ANNUALLY

(Joining dues prorated to June 1)

Dick Hagrman
3429 W. Berry Pl.
Littleton, CO 80123

WANT ADS

and

ARTICLES

Should be directed to;

Larry Weide
5270 E. Nassau Cir.
Englewood, CO 80110

ON THE AIR

Ready, Get Set, "Show and Sale"!

Dave Boyle, C.R.C. President

I had the pleasure of meeting with the Colisuem Radio Show Committee, once again chaired my Matt Lutkus. This year's show has the potential to be one of the best. After listening to our member's suggestions the committee has added two new entry categories. One for "Classic Audio"; vintage tube hi-fi equipment and the other for "Communication Gear"; older tube type military/ham receivers, transmitters, and related stuff. Bring them on guys! We've also dramatically reduced the member's fee for selling space. This will, hopefully, encourage more of us to bring radios and parts "for sale." It's my belief that radios on display, radios entered in the various show categories and radios for sale are still **RADIOS!** -- And that's why we do this. More interesting and educational for us and the public.

Remember, the operative word or theme this year is "diversity." Bring on those radios!!!! We may not have an entry category for the "ugliest" radio this year, but we are considering the "ugliest collector"; I'm now convinced I'll receive at least one blue ribbon!

I Wanted to pass on some info regarding an 'ole collector in Indiana, a fellow named Dick Oliver. He is producing wood parts for selected radios -- like Philco cathedrals. Mouldings (already mitered one end), arches, front panels -- you name it. He can also reproduce from samples provided to him. He makes a complete Philco 90 cabinet for \$175 ready to finish or \$225 finished. His phone # is 219-522-4516. I'll bring some of his sample work to the March meeting including some detailed literature passouts.

See ya' in March, Happy Collecting-Dave

The Annual CRC April Antique Radio Show and Sale

Everything you need to know to get ready

Yes, it's that time of year again when we dust off, polish up and get our treasures from the past ready to put on display for fun and, who knows, maybe a little profit. Of course I'm talking about choosing those items that we would like to show in our annual contest, and perhaps other items we would like to sell as well.

As in past years, the Show Committee met in January in order to review the past shows and determine what parts of this activity needed changing to hopefully make this year's show even better. The following is the complete packet of information you will need for this year's show and sale.

Location: The Denver Stock Show Complex - North Building
Date: Contest April 19, showing and sale April 19 - 20

Contest Categories:

Accessories	Metal Case
Art Deco	Novelty - Transistor
Bakelite	Novelty - Tube
Battery - 1926-1930	Plastic - Tube
Catalin	Portable - Pre 1926
Cathedral	Portable - Post 1925
#Classic Audio	Pre 1925
#Communication Gear	Speakers
Console - Full Length	Specialty Brand - G.E.
Console - High/Low Boy	Television
Console - High End	Tombstone
Crystal Set	Transistor
Metal Box - 1920's	Tube/Parts Display
Peoples Choice *	Wooden - Line Powered
Best Restoration **	Best of Show **

#=New this year

*=Popular vote by public **=Popular vote by CRC members

Judging Criteria:

- Internal Condition
- External Condition
- Rareness - Meaning: Relatively few are in existence
- Uniqueness - Meaning: Novel, and not many like it
- Presentation - Meaning: How well displayed, supporting documentaton, descriptions, etc.

As in past years there will be some emphasis, by virtue of the criteria weighting, on an entry's condition. The idea is to allow radios of all ages and collector value to be able to compete fairly. Thus, collectors who have given time and care to restoration and/or cleaning to *any* of their radios should not hesitate to consider entering them in the contest. The show is only successful when there is abundant participation by CRC members.

Timetable of Events:

Friday, April 18th - 2:00pm to 8:00pm - Setup

- ✓ This is the only time that you can drive into the complex to drop off equipment. Enter site at N/E corner, then around to west entry ramp.
- ✓ You can setup Saturday, but you will have to carry equipment in.

Saturday, April 19th - Set up, Registration, Contest and awards

- ✓ 8:00 am - Setup and Registration
- ✓ 9:00 am - Complex opens to public, begin selling
- ✓ 10:00 am - Registration Cutoff
- ✓ 10:30 am - Judges Briefing
- ✓ 11:00 am - Judging Commences
- ✓ 1:00 pm - Awards Posted
- ✓ 5:00 pm - Complex closes for the evening
- ✓ 6:00 pm - CRC dinner commences

Sunday, April 20th - Display and sale continues

- ✓ 4:00 pm - Complex closes

Costs for Space and Equipment Rental:

The stock show complex charges the CRC for the space assigned and for each table and chair that is used. The CRC prorates the cost of the selling space into a charge to each seller, and passes on the cost of the optionally rented sellers tables and chairs. Sellers may share the cost of space and equipment with each other in any combination. Sellers may choose to use their own tables and chairs. Good news! Notice that there is a 50% reduction in cost for spaces over last year's show.

<u>ITEM</u>	<u>COST</u>
Space	\$20
Table	\$6
Chair	\$1

CRC Dinner Arrangements:

We will continue to have the annual show dinner at the end of the first day of the show. This is a time when we can get together to relax, enjoy a leisurely meal, talk about the events of the day and have the official announcement of rewards. *You need not attend this dinner to receive your award(s).*

- You must make reservations by 12:00 am on Saturday with Jerry Tynan.
- You are invited to bring a guest.
- Payment for dinner must accompany reservations - no refunds.
- A reservation will be approximately \$11/person (includes tip).

Content of Judges Briefing:

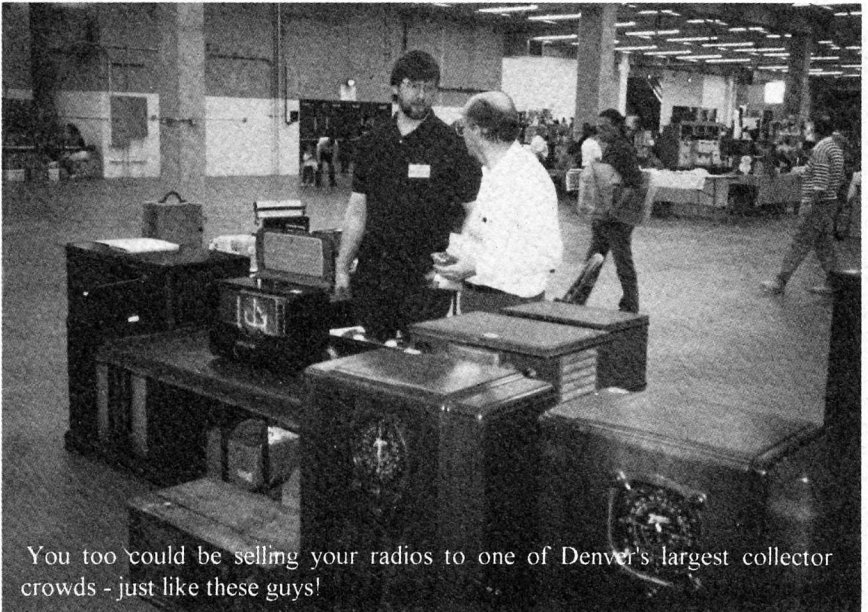
- ☒ Explanation/Review of categories and criteria
- ☒ Judging assignments based on membership attendance and judge's own entries
- ☒ Pairing of judges
- ☒ Explanation of entry reviewing and arriving at a judging consensus

Additional Items of Interest:

- Light snacks will be provided by the CRC for attending members.
- Volunteers are needed to watch over displays - Sat. & Sun.
Please consider coming and staying at least a while even if you're not entered in the contest or selling.
- You are highly encouraged to wear your CRC membership badge. You will need your badge for free exhibitor entry into the building. You will need your badge to receive complimentary CRC snacks.

A Timely Reminder

Although there have *never* been any problems, you need to be aware that the CRC does not assume any liability for lost, stolen or damaged articles, brought to this event by anyone, for show or for sale. The Denver Collector's Fair does provide a show-time walking guard and off hours security.



You too could be selling your radios to one of Denver's largest collector crowds - just like these guys!

NEBRASKA ANTIQUE RADIO COLLECTORS CLUB

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Vice-President:

Vern Killion
Lexington (308) 324-2502

Secretary/Treasurer:

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North Platte (308) 534-4778

**ALL DUES
\$12.00
ANNUALLY**

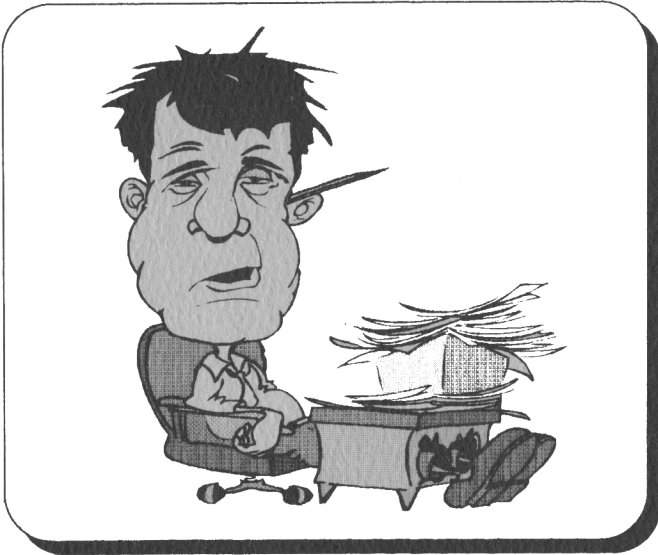
**Mail to:
Steve Morton
905 West First
North Platte NE 69101**

**WANT ADS
and
ARTICLES**

Should be directed to;

**Steve Morton
905 West First
North Platte NE 69101**

Nebraska Antique Radio Collectors Club
President's Column
by Bob Jensen



Sorry folks for not having a column this month, but the work just piled up and it needed my attention. Please see steve's column for the details of up-coming meetings.

Thanks,

Bob

From the Desk of the Secretary

by Steve Morton, NARCC Secretary-Treasurer

An organizational meeting will take place at KRVN Studios in Lexington. The meeting will begin at 1:00PM. We will be planning the meets for the 1997 season. I will send reminder cards to our members closer to the date.

For anyone interested in being an officer, this will be your big chance - *especially* for president.

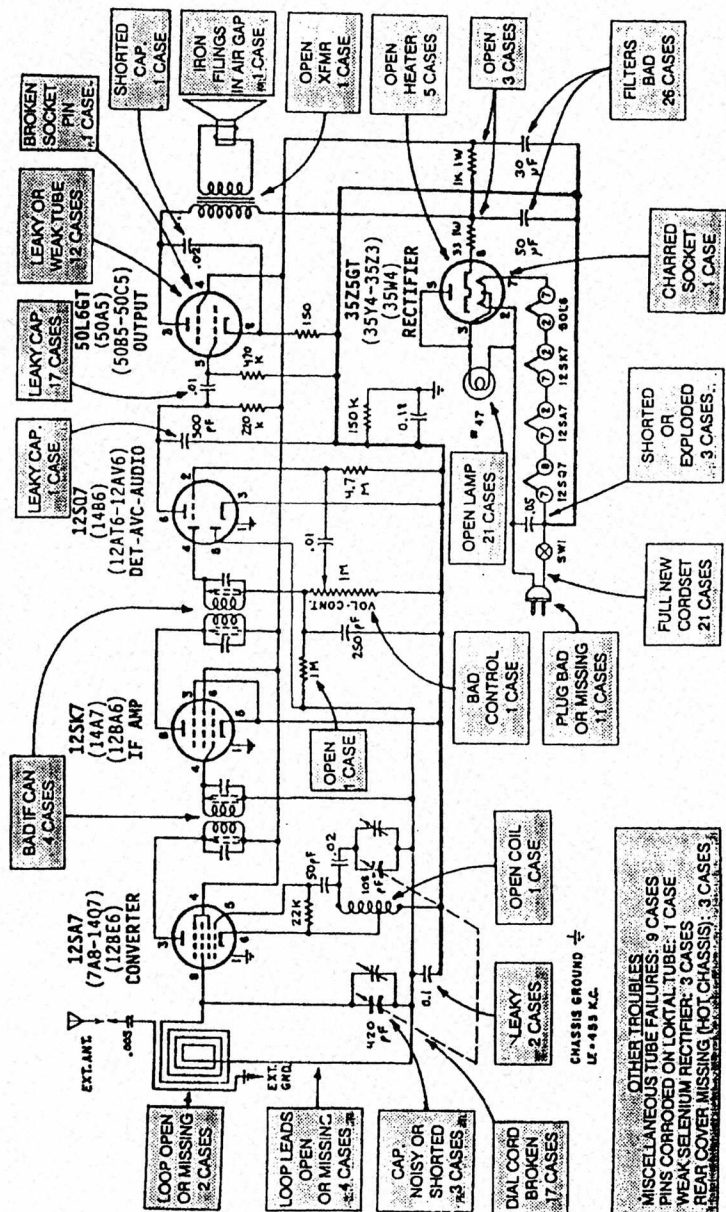
1997 Meeting Dates.

March 23th April 27th June 29th July 27th
August 24th September - Auction

Last August the NARCC had a discussion at it's regular meet about repairing AC/DC receivers. To continue this theme, as an aid to those who do repair work, the following might be helpful. It comes from Ludwell Sibley, the editor of the Delaware Valley Historic Radio Club's journal - the Oscillator. On page 12 I've included a copy of Ludwell's very interesting compilation of his analysis of failures found in 64 AC/DC radio repairs.

Safety first when working on AC/DC sets. The chassis is part of the circuit and may be "hot". Use an isolation transformer and stand on a rubber pad.

Steve



FAILURES IN 64 AC-DC RECEIVERS

Bah - Hum Bug(s)!

by

David Boyle, CRC Member

In over forty years of "dinking and dorking" around with old radios I've had my share of trying to solve "hum" problems. In fact right now I'm working on a Airline chairside with a apparent 60 Hz. hum in the audio. The hum is more pronounced after the chassis is installed in the cabinet -- the wood cabinet affords a significant bass boost and GREATLY accentuates the problem!

I thought I would take the time to share some hum trouble shooting hints with my fellow radio collectors and restorers. I've loosely classified the hum into two categories; 60 Hz problems and 120 Hz problems (or CPS for you 'ole guys!)

60 Hertz Hum:

- The detector tube is too close to 60 Hz source (power transformer, power switch or AC line). Use a shield around tube and/or power switch.
- Ground bonding problems; This is where ground current is carried through the rivets of tube sockets and terminal strips. Millivolts of

60 Hz voltage drop, due to loose and corroded rivets and screws, can cause substantial hum. Run a separate ground wire for the heater circuit -- and don't forget the pilot lamps. Also, you can move ground connections away from the detector and first audio tubes to a grounding at common locations where the circuit is naturally referenced to ground such as a tube cathode or cathode bias resistor.

- In an AA5 set, the 12SQ7 should be the last tube in the series string with one end of its heater at the same potential as the cathode.
- Be sure that the center tap of the power transformer's filament winding is at a "good" ground.
- Remember if its 60 Hz hum, then its probably heater voltage hum. Double check this by cutting off the heater 6.3 volt supply with the power on. If the hum immediately goes away before the tubes cool off you've found it!
- If it buzzes (60 Hz but lots of harmonics) then its probably some RF interference coming through

the antenna or nearby fluorescent lights, etc.

- Tubes with heater/cathode leakage -- substitute to isolate.

- Pull tubes one at a time working from the RF, Osc, IF, Detector, 1st. audio to assist in isolating the source.

- Also, remember that many times there may be multiple causes of hum.

- Try .02-.05 mfd caps on the AC input side to the power transformer. Tie them to ground. Put bypass caps to ground on the filament string.

- Try grounding the power transformer.

- Try shielding all or various tubes.

120 Hertz Hum:

- Poor power supply filtering. Time for that "recap" job in the filter network. The capacitance of 20-40 mfd is usually OK, But watch that DC working voltage -- keep it at 450 v. AC/DC sets use higher mfd's, but a lower DC working voltage. Keep it at 200-250 WVDC.

- Capacitor installation wiring errors are classic, like when one negative leg of a paired filter cap does not go to ground. Use a schematic and don't assume the last guy did it right! Some older radios generated negative bias by using negative lead filtering with the speaker field coil connected between chassis ground and power transformer B+ winding center tap. These various circuits require two separate or individual filter caps.

- Try replacing the rectifier tube (Substitution)

- Use a 'scope to check the AC ripple voltage at various points in the power supply system. Add more filter capacitance and study the ripple reduction affect. Don't add too much capacitance, especially before the choke (In-rush current considerations). Also some circuits are sensitive to too high capacitor value -- adding some unwanted low-frequency gain that may push the circuit into motor-boating or oscillation. That will do a number on your ear drums!

- Some radio circuit designs and component/tube layouts require the use of metal tubes. Possibly true if the audio and rectifier tubes are too close. Watch for glass substitutions as a cause for hum.

- The electrodynamic speaker hum bucking coil leads may be reversed. Try them the opposite way. See which way produces less hummm. Does the hum vary with the volume control audio output setting -- or is it constant? There could be important clues here!

- As with 60 Hz.hum, look for poor grounding of the power supply components, You don't want no ground loops nohow.

- Go around with a sharp test probe whoes other end is attached to a "GOOD" ground. Check for hum (both 60 & 120 Hz) reduction when checking various grounding lugs and ground tie points.

That's about all ideas I've got for now. I want to thank George Gonzalez and Henry van Cleef, contributors to rec.antiques.radio+phono, the antique radio newsgroup, for unknowingly allowing me to use some of their posted info.

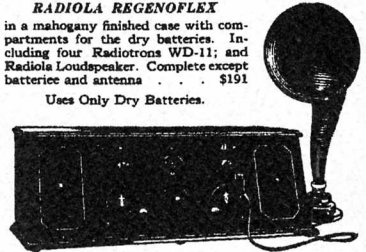
Bahhhh Hummmmm Bug!

David Boyle

RADIOLA REGENOFLEX

in a mahogany finished case with compartments for the dry batteries. Including four Radiotrons WD-11; and Radiola Loudspeaker. Complete except batteries and antenna . . . \$191

Uses Only Dry Batteries.



**RADIOLA
REGENOFLEX**

Tone quality is its greatest achievement! It gets big distances. It is very selective. It is supremely easy to operate. But its outstanding achievement is the improvement in reception of voice and music—an improvement based on new internal discoveries—and resulting in new joys of listening in.



*This symbol
of quality
is your
protection*

There's a Radiola for Every Purse

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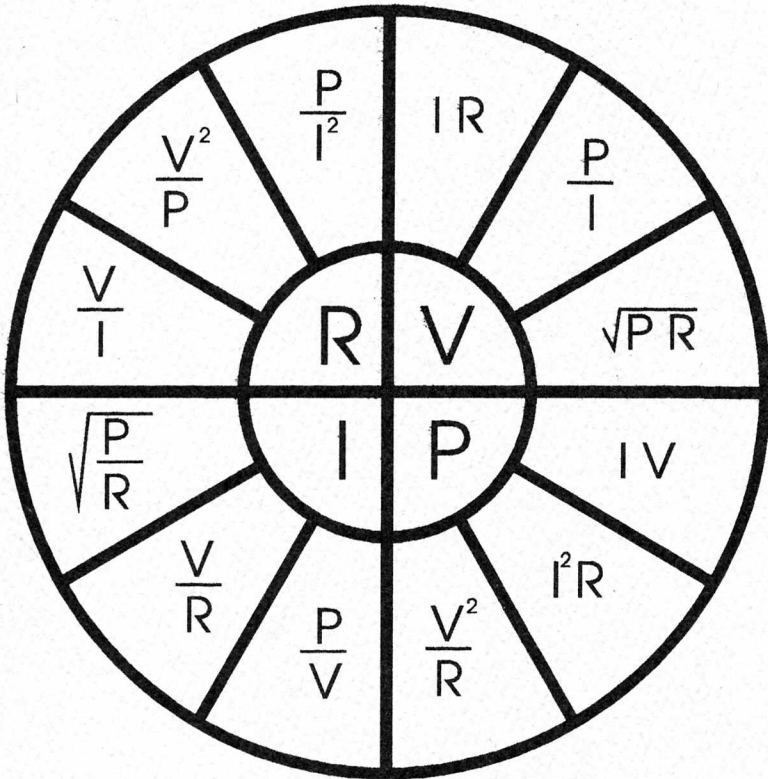
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Radiola

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Ohm's Law



P = Power in Watts
I = Current in Amperes
V = Voltage in Volts
R = Resistance in Ohms

Have you forgotten how to calculate any one electrical value in terms of any two of the others? Just look for what you want in the center then find the formula around the edge.

How to Replace Resistance Line Cords

by

Dave Gonshor, CRC Member

(Note: Several years back, the FLASH! published an excellent article by Larry Weide on how to deal with the nasty problem of a bad resistance line cord. This article is a follow-up to Larry's article).

Here's how to replace resistance line cords on AC/DC series filament sets, four or five tubes, with a voltage dropping capacitor. The hardest part is finding a non-polarized capacitor, 7 to 10 MFD, at least 100 VAC, preferably more. Polarized electrolytic capacitors won't work because you are working with AC filament current. There will be no heat generated in addition to the filaments because there is essentially no ohmic loss in the capacitor. Therefore, this method has a great advantage over a big fat power resistor dissipating a lot of heat. Here's how it works.

Calculate the effective resistance (R) of the tube filaments by summing the filament voltages and dividing by the filament current.

Calculate the reactance of the capacitor by

$$Xc = 1 \div (2\pi 60C)$$

where PI = 3.14. The series impedance magnitude of the filaments and the dropping capacitor is;

$$Z = \sqrt{R^2 + Xc^2}$$

So, the filament current is;

$$I = V \div Z$$

where V is the rms AC line voltage.

For example,

$$C = 7.5\mu fd$$

(from my local surplus store, rated at 230 VAC, non-polarized)

$$V = 117VAC$$

Filament current of 0.3 amp (all series tubes will have the same filament current rating) Five tubes

consisting of two 25 volt filaments,
and three 6.3 volt filaments,

$$R = 68.9 \text{ Volts} \div .03 \text{ Amps}$$

$$R = 230 \Omega$$

$$X_c = 1 \div (2\pi 60 \times 7.5E^{-6})$$

$$X_c = 354 \Omega$$

$$Z = \sqrt{68.9^2 + 354^2}$$

$$Z = 422 \Omega$$

$$I = V \div Z$$

$$I = .28 \text{ A}$$

(slightly low, so the filament
voltages will be slightly low)

The voltage across the tube
filaments is;

$$V = I \times \Omega_{fil}$$

$$V = .28 \times 230 = 64.4 \text{ VAC}$$

The voltage across the capacitor is;

$$V = .28 \times 354 = 99 \text{ VAC}$$

Note the total loop voltage (64.4 +
99 = 163.4 VAC) does not add up
to the 117 VAC line voltage
because the voltages across the
tube filaments and the capacitor
are not in phase (the voltage across
the capacitor lags the voltage

across the filaments by 90
degrees). The total line voltage is
the vector sum of the voltage
across the tube filaments and
across the capacitor. Don't make
the mistake of thinking that the
voltage across the tube filaments is
(25+25+6.3+6.3+6.3) = 68.9 VAC,
so you need a voltage across the
capacitor of (117 - 68.9 = 48.1)
VAC. The voltages are not in
phase so this doesn't work!

If all this math has you worried,
just buy a non-polarized capacitor
in the 7 to 10 MFD range and try it.
It probably will work just fine. In
reality, you probably won't have
much of a selection of this type of
capacitor to choose from anyway.

Dave

Building a radio collector's library

by

Dan Busetti, CRC Member

This is the second of a two-part series which addresses the why, how, and what of building your own radio collector's library. In this article, I'll talk about advertising, magazines, and picture and price guide books.

One of the more enjoyable aspects of radio collecting is the esthetic side. The diversity of radio design and appearance is amazing. Radios began as technical or laboratory equipment with little or no thought about appearance. I find it interesting that modern electronics have mostly come full circle and now resemble lab or experimental equipment with all black faces and a full array of knobs, dials (albeit digital), and buttons.

A library can be built which documents radio progress and evolution, marketing efforts, and manufacturer-generated information. There are many sources for this data:

- Popular modern books on antique radios
- Newspapers, catalogues, and magazines from the period
- Manufacturer-generated advertising, sales brochures, and technical publications

- Modern and vintage video footage
- Collector club newsletters
- Internet sites

As far as modern books go, many are available to CRC and NARCC members at substantial discounts through the club. Every Christmas and birthday I ask for something new. While both Antique Radio Classified (ARC) and Antique Electronic Supply (AES) carry a large variety of books, expect to pay full list price. Sometimes Barnes and Noble or Media Play carries radio books and used book stores occasionally have them.

The popular Bunis books are very helpful if you don't put too much faith in the pricing. Likewise, "Radiomania's Guide to Tabletop Radios" lists prices of dubious value, but has pictures of unusual and less common radios.

Two warnings about modern books: frequently the model numbers and dates are incorrect or aren't listed at all; and sometimes the pictures show cabinets that have terrible, non-original refinish jobs (such as "Evolution of the Radio, Volume 2"). I like to thumb

through someone else's book before I buy it. That little trick has saved me the expense of buying a book I didn't like or otherwise had some major fault in it.

Newspapers, catalogues, and magazines from the 20's, 30's, 40's, and 50's provide original sources of information, including retail prices, model numbers, years of production, and original appearances. One of my most prized ads is a full-page Atwater Kent ad from the December, 1924 "Ladies' Home Journal." Ads of various sizes and detail appear in almost all the major magazines of the day, especially the issues before Christmas. Sears, Wards, and Allied published elaborate catalogues with radios.

Many collectors have been able to locate dealer brochures and displays. These are usually somewhat rare and relatively pricey since they were considered trash after the selling season changed and were then burned or sent to the dump. Some of the RCA and GE manuals had pictures of the models. Many Sams have pictures as well. This information gives a definite fix on the year and model.

As far as videos and the Internet, these relatively new media make it possible to see and learn about (and even hear!) huge collections that we may never get to see

in person. In addition, these can serve as instructional and historical tools. Speaking of videos, have you ever watched for radios in old movies? Has anyone seen the Sparton Bluebird in the "Godfather?" Old radio club newsletters often contain interesting articles and give a nostalgic look at collecting in the 60's and 70's. They also give the names and addresses of older collectors who by now may be deceased or no longer collecting. There may be significant collections of radios and related material waiting to be liquidated (remember, however, to be ethical. Most of our collections will end up like that). The collective wisdom and knowledge of ourselves and our predecessors are contained in the old articles and stories.

How you build your "fun" library is up to you. For most of us, more is not enough. We like to read and learn about radios. We like to know what could be out there. I wonder how many ignorant collectors walk right past a valuable set because he/she doesn't recognize it. It's true that many volumes are nothing more than dream or wish books. But for die-hard collectors, we eat it up!

Happy reading!

Selling a Radio Collection

by

Ron Smith, CRC Member

Hi folks. I'm happy to report that I'm soon to be married to a very lovely lady. Consequently I've decided to down-size my collection to help make room for my new life (wife?). So, on this festive occasion we can all win. I've discounted the radios as far as I can, but if you buy multiples I might be able do some negotiating.

All radios were working when I put them on display, except that the radios indicated as "cheap" are being sold "as is". In addition to the price of the radio(s), there will be a small charge for shipping if not picked up at my home. **Please**, call me for an appointment so that I can be sure to have all the time available that you need. Thanks, **Ron**
(303)238-1384

Material: PL=Plastic, BA=Bakelite, WO=Wood

Color: BR=Brown, BL=Blond, WH=White

Style: CA=Cathedral, CLK=Clock Radio, TO=Tombstone,
RE=Reproduction

#	<u>BRAND</u>	<u>MODEL</u>	<u>PRICE</u>	<u>DESCRIPTION</u>
2	BENDIX	0526 E	50.00	TA, BR, WO
3	CROSLEY	D-25WE	100.00	TA, WH, BA
4	ZENITH	6D628	75.00	TA, BR, WO
5	PHILCO	PT 66	60.00	TA, BR, WO
7	PHILCO	46-420	60.00	TA, BR, WO
9	PHLCO	1930's	75.00	TA, BR, WO
11	CLARION	11801	50.00	TA, BR, BA
12	STROMBERG CARLSON	1101	50.00	TA, WH, BA
15	SETCHELL CARLSON	427	75.00	TA, BR, BA
17	ZENITH	6D-311	150.00	TA, BR, BA
18	ZENITH	6D-315 U	175.00	TA, BR, BA
19	PHILCO	40-120	75.00	TA, BR, WO
21	MAJESTIC	370	200.00	CA, BR, WO
22	PHILCO	40-120	50.00	TA, BR, WO
24	ZENITH	5G403	100.00	TA, BR, WO
25	ZENITH	65254	175.00	
26	PHILCO	112L	400.00	GEDDES CABINET
27	RCA	C8-15	150.00	
29	PHILCO	41-280	250.00	
30	ZENITH	9S365	350.00	
31	ATWATER KENT	70	200.00	

32	ZENITH	7A02	250.00	
33	PHILCO	65	200.00	
35	RCA	280	500.00	
36	STROMBERG CARLSON	145-L	500.00	
37	ATWATER KENT	325 E	225.00	
38	CROMWELL	6560	100.00	NIGHT STAND RADIO
39	THOMAS	BD-100	100.00	REPRODUCTION
42	AIRLINE	62-425	55.00	TA, BR, WO
48	G.E.	K 52	225.00	CA
58	ATWATER KENT	84	400.00	CA
59	AMERICAN BOSCH	200	200.00	TREASURE CHEST
62	PHILCO	37-93	150.00	CA, CRACKED DIAL
63	CLARION	AC 61	200.00	CA
64	ZENITH	5F134	225.00	TO
65	PHILCO	37-60	100.00	CA
66	RCA	R-7	175.00	TO
67	GRUNOW	500	175.00	TO, CHROME GRILL
68	CROSLEY	25AW	175.00	TO
69	RCA	1930's	100.00	TO
70	PHILCO	610	150.00	TO
71	PHILCO	610	150	TO
72	PHILCO	39 (1938)	100.00	TA
73	STTSWART-WARNER	GIRSW 206	150.00	BA, TO
74	PHILCO	80 B	75.00	CA
75	EMERSON	1940's	50.00	CHEST TYPE
76	PHILCO	84	75.00	CA
77	RK RADIO LABS	54233	250.00	LARGE KEG, WO, BR
87	PHILCO	48-200	50.00	TA, BR, PL
90	RANDIX	OTR-2001	50.00	RE
91	OTR	1001	85.00	RE

The following radios are the "cheap" items indicated above.

92	AIRLINE	1756-A	15.00	
93	SONY	8 RC 44	10.00	
94	NOBILITY	66	15.00	
95	BULOVA	NONE	10.00	CLK
96	FARNSWORTH	CT 59	5.00	
97	SILVERTONE	8053 J	10.00	
98	DETROLA	NONE	10.00	
99	G.E.	NONE	10.00	CLK
100	FARNSWORTH	ET 065	10.00	
101	TRAVLER	55-37	10.00	
102	RCA	6 RF 9	10.00	
103	EMERSON	DJ 310	5.00	
104	LLOYDS	TM 75	3.00	

The above is the end of the "cheap" radios.

106 G.E.	J 62	50.00	CHEST, WO
107 LEARADIO	662	15.00	TA, BL
108 CROSLEY	D 25 WE	100.00	TA, WH, BA
110 HOWARD	NONE	25.00	TA, WO, BR
111 RCA	T 4-8 A	75.00	CA
112 G.E.	M 42	75.00	TO
113 ARVIN	451T	25.00	TA, SALMON, PL
114 MOTOROLA 1948	68LII	25.00	SUITCASE TYPE
115 MOTOROLA	51X12	15.00	TA, WH, PL
116 TRAVLER	56 C 42	10.00	CLK, BR
117 STROMBERG CARLSON	1500	45.00	TA, BR, PL
118 ZENITH	NONE	25.00	TA, BR, PL
119 SILVERTONE	60	20.00	TA, METAL, GRAY
120 RCA	4T	120.00	CA
121 CROSLEY	P-114W	10.00	NEEDS WORK, TA
122 ZENITH	G 516 W	25.00	CLK, WH
123 G.E.	65	5.00	CLK, BR
124 G.E.	573	15.00	CLK, WH
125 RCA	100 A	25.00	SPEAKER CATH. TYPE
128 MOTOROLA	52Y	15.00	TA, BR, PL
129 RCA	56X5	25.00	TA, BR, WO
130 HOMEMADE	1940's	45.00	NICE LOOKING, WO
131 STROMBERG CARLSON	1500	45.00	TA, BR, PL
132 AMERICAN BOSCH	420	100.00	1~34, TA, WO
133 WESTINGHOUSE	H-130	20.00	TA, BR, WO
134 ZENITH	H-615	20.00	1951, TA, BR, PL
135 CRUNDIG	87	75.00	TA, PURPLE, PL
136 PEERLESS	NONE	50.00	EARLY SPEAKER, WO
138 G.E.	NONE	10.00	TA, BR, PL
140 G.E.	NONE	10.00	WO, MISSING KNOBS
141 JEWEL	5057 U	15.00	CLK, WH
142 EMERSON	NONE	20.00	TA, BL, PL
143 AIRLINE	64BR/1504B	20.00	TA, WH, PL
144 STROMBERG CARLSON	1500	45.00	TA, WH, PL
145 ADMIRAL	NONE	20.00	TA, BR, WO
146 CROSLEY	NONE	20.00	TA, TAN, PL
147 CORONADO	NONE	50.00	TA, BR, WO
148 TELEPHONE RADIO	NONE	50.00	BL, NICE
149 TELEPHONE RADIO	NONE	50.00	MAPLE, NICE

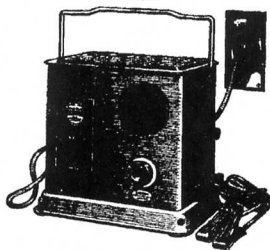
Tubes are both new and used/tested. Prices listed (per each) are from Antique Electronic Supply's 1995 catalog. All tubes can be bought as a \$1000 package + S/H.

TYPE	QTY	PRICE EA.							
1A5	2	4.30	6SS7	3	3.90	7C5	3	7.90	
1A7	3	Not Listed	6F6	2	7.80	7C6	2	6.50	
1B3	4	3.60	6F7	2	4.10	7C7	2	3.20	
1C5	1	2.60	6F8	1	3.50	7H7	1	3.80	
1B5	1	3.90	6G6	3	4.80	7L7	1	2.70	
1C6	2	2.80	6H6	6	3.00	7N7	4	7.00	
1C7	1	2.70	6J5	4	4.20	7V7	1	3.40	
1D5	1	3.00	6J7	3	4.10	7X6	1	2.60	
1H5	2	3.70	6K5	1	3.50	7X7	10	3.30	
1J6	1	7.40	6K6	8	3.30	7Y4	3	2.00	
1LN5	3	3.70	6K7	3	4.10	10	2	75.00	
1LA4	2	3.60	6K8	4	3.30	12A	2	25.30	
1LA6	3	4.90	6L5	1	3.80	12A6	7	1.20	
1LH4	6	2.50	6L6	6	16.60	12C8	4	2.50	
1LN5	3	3.70	6N6	2	23.40	12F5	1	Call	
1N5	1	3.80	6N7	2	5.60	12J5	3	3.30	
2A3	3	75.00	6R7	3	2.80	12K7	2	3.90	
2A5	1	14.20	6S7	2	2.90	12J7	1	2.50	
2X2	2	2.40	6U7	2	2.50	12L6	5	1.60	
2B7	1	3.50	1629	1	5.30	1247	8	2.70	
5U4	4	18.3	6V6	2	12.50	12V6	2	3.60	
5V4	2	10.5	6V7	1	2.40	12W6	1	3.00	
5Y3	4	8.80	6W4	4	2.50	12Z3	1	1.80	
5Y4	1	4.10	6X5	4	3.80	12SA7	40	4.70	
523	4	5.50	624	4	6.50	12SF7	4	4.20	
524	1	4.70	6AB7	1	4.50	12SG7	15	4.20	
5AZ1	1	2.90	6AC5	1	8.70	12SH7	8	4.60	
6A6	2	4.80	6AC7	1	3.20	12ST7	8	2.80	
6A7	3	8.00	6AG7	3	5.90	12SK7	32	3.70	
6A8	1	5.20	6AQ7	1	2.00	12SL7	6	3.50	
6B7	3	4.80	6AX4	2	3.00	12SN7	20	3.00	
6B8	1	3.50	6BG6	1	7.20	12SQ7	24	5.60	
6C6	1	2.90	6SB7	1	3.60	12SR7	8	3.20	
6C8	1	Call	6SA7	4	2.60	14A7	2	3.70	
6D6	4	4.00	6SC7	5	5.40	14B6	6	4.50	
6F5	1	3.60	6SD7	1	4.90	14B8	5	2.60	
6SG7	2	4.30	6SF5	3	3.20	14R7	1	2.80	
6SH7	3	2.90	6SF7	3	3.90	14Q7	1	2.80	
6SJ7	4	3.50	7A4	2	4.80	14X7	5	2.80	
6SK7	13	3.50	7A7	5	3.40	22	3	8.00	
6SL7	6	6.50	7AS	3	2.50	24A	17	9.40	
6SN7	8	5.70	7B5	3	2.80	25A6	1	3.30	
6SQ7	9	3.30	7B6	14	3.50	25L6	23	8.00	
6SR7	2	3.30	7B7	3	7.50	2525	13	3.20	
			7B8	5	2.80	2526	15	5.10	

26	5	14.20
27	26	5.70
28D7	1	5.50
30	8	6.20
31	1	5.50
32L7	2	3.70
33	1	4.80
34	11	3.30
35	10	4.90
35A5	1	4.20
35L6	12	4.20
3523	8	3.60
3524	3	2.80
3525	26	4.30
36	3	5.40
37	2	5.00
38	8	3.60
39/44	8	2.80
40	4	15.00
41	23	7.50
42	17	15.90
43	13	5.40
45	6	80.00
46	4	13.80
47	10	15.50
49	2	10.20
50A5	9	2.80
50L6	23	5.40
55	2	4.30
56	10	4.40
57	5	3.80
58	3	5.30
59	2	9.90
71A	10	20.00
75	25	12.30
76	10	10.80
77	10	3.10
78	21	4.50
79	1	3.30
80	39	12.00
81	5	12.90
82	1	12.10
83	4	19.00
84	12	6.50
85	2	3.30

The New Triple Duty GOLD SEAL HOMCHARGER

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Charges three times faster!
Rejuvenates lifeless tubes
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