



# The FLASH!



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

Volume 17, Issue 3

January Meeting in Castle Rock - See Back Page

May, June 2006

## Announcing the 2006 Annual CRC Antique Radio Show, Contest and Sale - May 13th Adams County Fairgrounds

This year the CRC will be holding its annual Antique Radio Show and Sale at the Adams County Fairgrounds, in conjunction with the "Toys Over the Rockies" collectable show. As many of you know, this is our biggest and splashiest opportunity to not only show the community what antique radio collecting is all about, but it also allows those CRC members with radio and associated equipment to sell to put their wares before a crowd of hundreds of people who will be there specifically to look at and purchase antiques.

So, get those beauties down off the shelf and win a prize and/or make a buck. **See page 9 for directions and map.** For further information, contact Dave Boyle at (303) 681-3258.

### Friday, May 12th - 4:00pm to 8:00pm - Setup

- ✓ Our booth will be right next to an outside door where you can pull up for unloading and access. Look for "CRC" sign.
- ✓ Tables will be available but final layout and arrangement will be when full setup is done on Saturday morning

### Saturday, May 13th - Set up, Reg., Contest and awards

- ✓ 7:00-9:00am - Unloading, begin setup and reg.
- ✓ 9:00 am - Complex opens to public, begin selling
- ✓ 10:00 am - Contest registration cutoff
- ✓ 10:30 am - Judges briefing
- ✓ 11:00 am - Judging commences
- ✓ 1:00 pm - Awards posted
- ✓ 3:00 pm - Show closes, begin breakdown
- ✓ 5:30 pm - CRC dinner - **Note:** Dinner, if held, will be decided by consensus at show

### Costs for Space and Table Rental:

The collectable show promoter charges the CRC for the each table that is used. The CRC pays for these tables but passes on the cost of those items that are used by the sellers. **The cost this year is only \$10 for each table.** Sellers may share this cost with each other in any combination.

### Contest Categories:

- |                        |                      |
|------------------------|----------------------|
| Accessories            | Metal Case           |
| Bakelite               | Novelty - Transistor |
| Battery - 1926-1929    | Novelty - Tube       |
| Catalin                | Plastic - Tube       |
| Cathedral              | Portable - Pre 1939  |
| Classic Audio          | Portable - Post 1938 |
| Communication Gear     | Pre 1925             |
| Console - Full Length  | Speakers             |
| Console - High/Low Boy | Specialty - "Philco" |
| Crystal Set            | Television           |
| Kits/Homebrew          | Tombstone            |
| Metal Box - 1920's     | Transistor           |
| People's Choice *      | Tube/Parts Display   |
| Best Restoration **    | Wooden A/C           |
| Best of Show **        |                      |

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

### Judging Criteria:

- Internal Condition - Judged if visible from the outside
- External Condition
- Rareness - Relatively few are in existence
- Uniqueness - Novel, and not many like it
- Presentation - How well displayed, documented, etc.

### Additional Items of Interest:

- Power will be available, but consider bringing an extension.
- As in the past shows, sellers may include any items that fall into the category of "collectable" - they need not be strictly radio related.
- Volunteers are needed to watch over displays. Please consider coming and staying for 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 entry into the building for you and your family.

**The CRC, and the "Toys Over the Rockies" promoter, do not assume any liability for lost, stolen or damaged articles, brought to this event by anyone, for show or for sale.**

# COLORADO RADIO COLLECTORS ANTIQUE RADIO CLUB

Founded October 1988

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Volume 17, Issue 3

May/June 2006

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### **MESSAGE FROM THE PRESIDENT**

Hello to all CRC members,

Hopefully you all received the notice I sent out concerning the show on May 13<sup>th</sup>, but just in case it got lost or thrown away we are sending out this issue of the FLASH early with all the details. We wanted to make sure everyone is aware of the show since it will actually be the weekend before our regular May meeting which is on Sunday the 21<sup>st</sup>. For you new members this is a really good opportunity to see some of the wonderful radios and other tube equipment that the members have in their collections!

Our May meeting is in Castle Rock and the library has internet access in the meeting room so we are planning on connecting to our web site and other interesting related sites for our program. If you have an interesting web site related to radios bring the site address with you and if we have time we can look at some of these sites.

It is not too early to start thinking about the auction and what you might like to sell or try to buy.

As usual I am always looking for interesting programs, demonstrations, or other activities to have at the club meetings so please continue to look or work on things that we might be able to do.

And **again** here is the reminder about articles for the FLASH.

See you May 13<sup>th</sup> at the show and May 21<sup>st</sup> in Castle Rock!

Dennis

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#### **Treasurer &**

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### **CRC MEMBERSHIP**

Annual membership in the CRC runs from **June to June**. Annual dues entitles members to a full year (6 issues) of the club publication "The Flash!", participation in club events such as the annual April Show, mid-summer picnic, October auction as well as our semi-monthly meetings and swap meets. Dues also entitle you to club officer elections and excellent discount prices on current hobby publications

Current annual dues are \$12. New memberships will be prorated to the following June, i.e new members joining in May should submit \$12, in December \$5, etc.

### **CRC MEETINGS**

Meetings are held on the 2nd Sunday of every other month starting in January (except 3rd Sunday of May) at 1:00pm. The meetings consist of business, "show & tell", raffles, swap meets, technical discussions and other subjects of interest.

## Restoration of a 1936 Admiral B125

by Larry Synder, CRC Member

This wooden Admiral radio was obtained at the CRC auction in August 2005. It was one of 3 radios in a lot for that went for \$10.00.

### A Search for Identity



I originally cataloged the radio as an Admiral model F5 because "F5" was printed in black ink on the rear of the chassis. The paper identification that is sometimes glued to the side wall of the cabinet had for the most part fallen off and what remained was only the list of patent numbers.

The Admiral F5 was not listed in the Riders index when I went to get the schematic from the Riders DVD, (obtained from Radio Era Archives). But, Continental Radio & Television Co. manufactured radios for Admiral, so I looked under the Continental heading. A model F5 schematic was listed in Riders V11, published in 1940. Mistakenly, thinking the F5 was the right schematic; I printed it out and put the radio on the shelf until I was ready to work on it.

The first thing I noticed when I started restoration was the tube compliment in the radio did not match the Continental F5 schematic. I knew the tubes in the radio were the correct tubes because they matched manufacturers imprinted markings on the tube sockets. I had the wrong schematic.

I also noticed October 15, 1936 was stamped on the front gasket of the speaker. I realize that sometimes schematics were published in Riders a year or two after the radios were manufactured. But, a 4-year difference was not expected.

The underside of the chassis revealed a few components had been replaced in the past and insulation had broken off a few wires. Other than that, it appeared to be in good shape with ample room to work in. I was tempted to continue restoration without a schematic, recapping and replacing components, value-for-value, when I found them out of tolerance. But, work once more got in the way of me pursuing my hobby and I put the radio back on the shelf for a few more weeks.

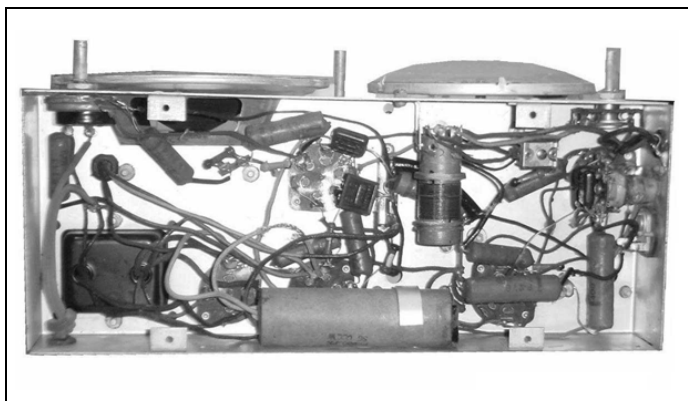
One evening I decided to try & find this radio by reading the descriptions in the entire listing of Admiral radios in *The Collector's Guide to Antique Radios*, 6<sup>th</sup> edition by John Slussler & Radio Daze. Lo and behold the description for 1936 Admiral B125 was a close match to what I had, but it described a walnut finish not the white paint on this radio. A closer look at my radio revealed it had been painted over and the original walnut finish was underneath. Now, feeling I was getting closer to identifying the radio, I was eager to find a photograph of the Admiral B125. To that end I did an Internet search and found a photo of the B125. It looked exactly like my radio with a walnut finish. With this information I searched to find a schematic for the Admiral B125 or Continental B125. But there was none to be found in the Riders indexes. I reached another dead-end.

As a last resort, I decided to look at all the Admiral and Continental schematics in all the Rider volumes on my DVD to see if I could find a schematic with the radio's tube lineup and components. This painstaking search paid off. Riders Volume 11, Continental pg.11-1 is the schematic for Model B1 with all the tubes and all the components found in my radio. More importantly, on the bottom half of the page is a drawing of the chassis layout that is identical to my radio. The date in the lower corner of the drawing is 1936, matching the date on the speaker. Volume 11 was published in 1940 and it contains a 1936 schematic. With this schematic in hand I felt confident to start replacing components and restoring the radio.

### The Restoration

I replaced all the paper and electrolytic capacitors and five out-of-tolerance resistors. For the sake of historical record keeping I must mention that I found 500 & 15k ohm resistors where respectively 250 and 20k should have been, and a .005uF capacitor across the voice coil where a .01uF cap

should have been. I also found the 250pF and the 500pF capacitors were interchanged.



For safety purposes I replaced the power cord with a polarized line cord, added a 1-amp fuse on the hot side leading to the on-off switch in the volume control, and internally connected the ground wire lead to the chassis.

For each radio I work on I make a spreadsheet file, as shown below, that lists what I found and what I replaced. It helps because I need only measure the value of a resistor or capacitor once.

| 1936 ADMIRAL MODEL B125 - REPLACED PARTS 2006        |          |     |     |           |            |         |           |     |      | SEE REFERS: Continental VIT-1, pg 135 |             |           |        |                 |  |  |  |  |  |
|--|----------|-----|-----|-----------|------------|---------|-----------|-----|------|---------------------------------------|-------------|-----------|--------|-----------------|--|--|--|--|--|
| MADE BY CONTINENTAL RADIO & TELEVISION CORP MODEL B1 |          |     |     |           |            |         |           |     |      |                                       |             |           |        |                 |  |  |  |  |  |
| RESISTORS  |          |     |     |           | CAPACITORS |         |           |     |      | TUBES                                 |             |           |        |                 |  |  |  |  |  |
| changes  | RESISTOR | QTY | W   | NOTES     | value      | changes | CAPACITOR | QTY | V    | NOTES                                 | TUBE        | QTY       | NOTES  |                 |  |  |  |  |  |
|  | 545      | 1   | 250 | 500 found | \$0.20     | 0.118   | 1         | C 1 | 0.11 | 200                                   | PAPER       | \$0.45    | 6A7    | Mixer/Converter |  |  |  |  |  |
|  | 416      | 1   | 50K |           | \$0.20     | 0.005   | 1         | C 2 | 0.05 | 200                                   | PAPER       | \$0.35    | 6BE    | IF AMP          |  |  |  |  |  |
|  | 520      | 1   | 500 |           | \$0.20     | 1500    | 1         | C 3 | 500  | µF                                    | MICA        |           | 75     | AUDIO DET       |  |  |  |  |  |
|  | 125      | 1   | 4   | 20K       | 15K found  | \$0.20  | 0.12      | 1   | C 4  | 0.11                                  | 400         | PAPER     | 42     | OUTPUT          |  |  |  |  |  |
|  | 11334    | 1   | 5   | 1M5C      |            | \$0.20  | 0.007     | 1   | C 5  | 0.05                                  | 200         | PAPER     | 30     | RECIPIER        |  |  |  |  |  |
|  | 1 MEG    | 1   | 8   | 500K V.C. |            | \$0.20  | 0.122     | 1   | C 6  | 0.11                                  | 400         | PAPER     | \$0.45 |                 |  |  |  |  |  |
|  | 7.8K     | 1   | 7   | 8K        |            | \$0.20  | 3872µF    | 1   | C 7  | 250µF                                 | MICA        |           |        |                 |  |  |  |  |  |
|  | 394K     | 1   | 8   | 1M5C      |            | \$0.20  | 0.12      | 1   | C 8  | 0.11                                  | 200         | PAPER     | \$0.45 |                 |  |  |  |  |  |
|  | 558K     | 1   | 9   | 250K      |            | \$0.20  | 0.033     | 1   | C 9  | 0.02                                  | 400         | PAPER     | \$0.35 |                 |  |  |  |  |  |
|  | 505      | 1   | 10  | 500K      |            | \$0.20  | 500 µF    | 1   | C 10 | 500µF                                 | MICA        |           |        |                 |  |  |  |  |  |
|  | 75K      | 1   | 11  | 300 W/W   |            | \$0.20  | 0.025     | 1   | C 11 | 0.02                                  | 400         | PAPER     | \$0.35 |                 |  |  |  |  |  |
|  |          |     |     |           |            |         | open      | 1   | C 12 | 0.01                                  | 200         | 055 found | \$0.31 |                 |  |  |  |  |  |
|  |          |     |     |           |            |         | 0.05      | 1   | C 13 | 4                                     | 450 ELECTRO | \$0.46    |        |                 |  |  |  |  |  |
|  |          |     |     |           |            |         | 0.07      | 1   | C 14 | 8                                     | 450 ELECTRO | \$1.15    |        |                 |  |  |  |  |  |
|  |          |     |     |           |            |         | 0.025     | 1   | C 15 | 0.02                                  | 100         | PAPER     | \$0.35 |                 |  |  |  |  |  |

| changes | TUBE | QTY | NOTES           | value  | changes | TUBE | QTY | NOTES  |
|---------|------|-----|-----------------|--------|---------|------|-----|--------|
|         | 6A7  | 1   | Mixer/Converter | \$0.45 |         | 6BE  | 1   | IF AMP |
|         | 75   | 1   | AUDIO DET       |        |         | 42   | 1   | OUTPUT |
|         | 30   | 1   | RECIPIER        |        |         |      |     |        |

| changes | RESISTOR | QTY | W   | NOTES     | value     | changes | CAPACITOR | QTY | V    | NOTES | TUBE        | QTY       | NOTES  |                 |
|---------|----------|-----|-----|-----------|-----------|---------|-----------|-----|------|-------|-------------|-----------|--------|-----------------|
|         | 545      | 1   | 250 | 500 found | \$0.20    | 0.118   | 1         | C 1 | 0.11 | 200   | PAPER       | \$0.45    | 6A7    | Mixer/Converter |
|         | 416      | 1   | 50K |           | \$0.20    | 0.005   | 1         | C 2 | 0.05 | 200   | PAPER       | \$0.35    | 6BE    | IF AMP          |
|         | 520      | 1   | 500 |           | \$0.20    | 1500    | 1         | C 3 | 500  | µF    | MICA        |           | 75     | AUDIO DET       |
|         | 125      | 1   | 4   | 20K       | 15K found | \$0.20  | 0.12      | 1   | C 4  | 0.11  | 400         | PAPER     | 42     | OUTPUT          |
|         | 11334    | 1   | 5   | 1M5C      |           | \$0.20  | 0.007     | 1   | C 5  | 0.05  | 200         | PAPER     | 30     | RECIPIER        |
|         | 1 MEG    | 1   | 8   | 500K V.C. |           | \$0.20  | 0.122     | 1   | C 6  | 0.11  | 400         | PAPER     | \$0.45 |                 |
|         | 7.8K     | 1   | 7   | 8K        |           | \$0.20  | 3872µF    | 1   | C 7  | 250µF | MICA        |           |        |                 |
|         | 394K     | 1   | 8   | 1M5C      |           | \$0.20  | 0.12      | 1   | C 8  | 0.11  | 200         | PAPER     | \$0.45 |                 |
|         | 558K     | 1   | 9   | 250K      |           | \$0.20  | 0.033     | 1   | C 9  | 0.02  | 400         | PAPER     | \$0.35 |                 |
|         | 505      | 1   | 10  | 500K      |           | \$0.20  | 500 µF    | 1   | C 10 | 500µF | MICA        |           |        |                 |
|         | 75K      | 1   | 11  | 300 W/W   |           | \$0.20  | 0.025     | 1   | C 11 | 0.02  | 400         | PAPER     | \$0.35 |                 |
|         |          |     |     |           |           |         | open      | 1   | C 12 | 0.01  | 200         | 055 found | \$0.31 |                 |
|         |          |     |     |           |           |         | 0.05      | 1   | C 13 | 4     | 450 ELECTRO | \$0.46    |        |                 |
|         |          |     |     |           |           |         | 0.07      | 1   | C 14 | 8     | 450 ELECTRO | \$1.15    |        |                 |
|         |          |     |     |           |           |         | 0.025     | 1   | C 15 | 0.02  | 100         | PAPER     | \$0.35 |                 |

| changes | TUBE | QTY | NOTES           | value  | changes | TUBE | QTY | NOTES  |
|---------|------|-----|-----------------|--------|---------|------|-----|--------|
|         | 6A7  | 1   | Mixer/Converter | \$0.45 |         | 6BE  | 1   | IF AMP |
|         | 75   | 1   | AUDIO DET       |        |         | 42   | 1   | OUTPUT |
|         | 30   | 1   | RECIPIER        |        |         |      |     |        |

| changes | RESISTOR | QTY | W   | NOTES     | value     | changes | CAPACITOR | QTY | V    | NOTES | TUBE        | QTY       | NOTES  |                 |
|---------|----------|-----|-----|-----------|-----------|---------|-----------|-----|------|-------|-------------|-----------|--------|-----------------|
|         | 545      | 1   | 250 | 500 found | \$0.20    | 0.118   | 1         | C 1 | 0.11 | 200   | PAPER       | \$0.45    | 6A7    | Mixer/Converter |
|         | 416      | 1   | 50K |           | \$0.20    | 0.005   | 1         | C 2 | 0.05 | 200   | PAPER       | \$0.35    | 6BE    | IF AMP          |
|         | 520      | 1   | 500 |           | \$0.20    | 1500    | 1         | C 3 | 500  | µF    | MICA        |           | 75     | AUDIO DET       |
|         | 125      | 1   | 4   | 20K       | 15K found | \$0.20  | 0.12      | 1   | C 4  | 0.11  | 400         | PAPER     | 42     | OUTPUT          |
|         | 11334    | 1   | 5   | 1M5C      |           | \$0.20  | 0.007     | 1   | C 5  | 0.05  | 200         | PAPER     | 30     | RECIPIER        |
|         | 1 MEG    | 1   | 8   | 500K V.C. |           | \$0.20  | 0.122     | 1   | C 6  | 0.11  | 400         | PAPER     | \$0.45 |                 |
|         | 7.8K     | 1   | 7   | 8K        |           | \$0.20  | 3872µF    | 1   | C 7  | 250µF | MICA        |           |        |                 |
|         | 394K     | 1   | 8   | 1M5C      |           | \$0.20  | 0.12      | 1   | C 8  | 0.11  | 200         | PAPER     | \$0.45 |                 |
|         | 558K     | 1   | 9   | 250K      |           | \$0.20  | 0.033     | 1   | C 9  | 0.02  | 400         | PAPER     | \$0.35 |                 |
|         | 505      | 1   | 10  | 500K      |           | \$0.20  | 500 µF    | 1   | C 10 | 500µF | MICA        |           |        |                 |
|         | 75K      | 1   | 11  | 300 W/W   |           | \$0.20  | 0.025     | 1   | C 11 | 0.02  | 400         | PAPER     | \$0.35 |                 |
|         |          |     |     |           |           |         | open      | 1   | C 12 | 0.01  | 200         | 055 found | \$0.31 |                 |
|         |          |     |     |           |           |         | 0.05      | 1   | C 13 | 4     | 450 ELECTRO | \$0.46    |        |                 |
|         |          |     |     |           |           |         | 0.07      | 1   | C 14 | 8     | 450 ELECTRO | \$1.15    |        |                 |
|         |          |     |     |           |           |         | 0.025     | 1   | C 15 | 0.02  | 100         | PAPER     | \$0.35 |                 |

| changes | TUBE | QTY | NOTES           | value  | changes | TUBE | QTY | NOTES  |
|---------|------|-----|-----------------|--------|---------|------|-----|--------|
|         | 6A7  | 1   | Mixer/Converter | \$0.45 |         | 6BE  | 1   | IF AMP |
|         | 75   | 1   | AUDIO DET       |        |         | 42   | 1   | OUTPUT |
|         | 30   | 1   | RECIPIER        |        |         |      |     |        |

| changes | RESISTOR | QTY | W   | NOTES     | value     | changes | CAPACITOR | QTY | V    | NOTES | TUBE        | QTY       | NOTES  |                 |
|---------|----------|-----|-----|-----------|-----------|---------|-----------|-----|------|-------|-------------|-----------|--------|-----------------|
|         | 545      | 1   | 250 | 500 found | \$0.20    | 0.118   | 1         | C 1 | 0.11 | 200   | PAPER       | \$0.45    | 6A7    | Mixer/Converter |
|         | 416      | 1   | 50K |           | \$0.20    | 0.005   | 1         | C 2 | 0.05 | 200   | PAPER       | \$0.35    | 6BE    | IF AMP          |
|         | 520      | 1   | 500 |           | \$0.20    | 1500    | 1         | C 3 | 500  | µF    | MICA        |           | 75     | AUDIO DET       |
|         | 125      | 1   | 4   | 20K       | 15K found | \$0.20  | 0.12      | 1   | C 4  | 0.11  | 400         | PAPER     | 42     | OUTPUT          |
|         | 11334    | 1   | 5   | 1M5C      |           | \$0.20  | 0.007     | 1   | C 5  | 0.05  | 200         | PAPER     | 30     | RECIPIER        |
|         | 1 MEG    | 1   | 8   | 500K V.C. |           | \$0.20  | 0.122     | 1   | C 6  | 0.11  | 400         | PAPER     | \$0.45 |                 |
|         | 7.8K     | 1   | 7   | 8K        |           | \$0.20  | 3872µF    | 1   | C 7  | 250µF | MICA        |           |        |                 |
|         | 394K     | 1   | 8   | 1M5C      |           | \$0.20  | 0.12      | 1   | C 8  | 0.11  | 200         | PAPER     | \$0.45 |                 |
|         | 558K     | 1   | 9   | 250K      |           | \$0.20  | 0.033     | 1   | C 9  | 0.02  | 400         | PAPER     | \$0.35 |                 |
|         | 505      | 1   | 10  | 500K      |           | \$0.20  | 500 µF    | 1   | C 10 | 500µF | MICA        |           |        |                 |
|         | 75K      | 1   | 11  | 300 W/W   |           | \$0.20  | 0.025     | 1   | C 11 | 0.02  | 400         | PAPER     | \$0.35 |                 |
|         |          |     |     |           |           |         | open      | 1   | C 12 | 0.01  | 200         | 055 found | \$0.31 |                 |
|         |          |     |     |           |           |         | 0.05      | 1   | C 13 | 4     | 450 ELECTRO | \$0.46    |        |                 |
|         |          |     |     |           |           |         | 0.07      | 1   | C 14 | 8     | 450 ELECTRO | \$1.15    |        |                 |
|         |          |     |     |           |           |         | 0.025     | 1   | C 15 | 0.02  | 100         | PAPER     | \$0.35 |                 |

| changes | TUBE | QTY | NOTES           | value  | changes | TUBE | QTY | NOTES  |
|---------|------|-----|-----------------|--------|---------|------|-----|--------|
|         | 6A7  | 1   | Mixer/Converter | \$0.45 |         | 6BE  | 1   | IF AMP |
|         | 75   | 1   | AUDIO DET       |        |         | 42   | 1   | OUTPUT |
|         | 30   | 1   | RECIPIER        |        |         |      |     |        |

| changes | RESISTOR | QTY | W   | NOTES     | value     | changes | CAPACITOR | QTY | V    | NOTES | TUBE        | QTY       | NOTES  |                 |
|---------|----------|-----|-----|-----------|-----------|---------|-----------|-----|------|-------|-------------|-----------|--------|-----------------|
|         | 545      | 1   | 250 | 500 found | \$0.20    | 0.118   | 1         | C 1 | 0.11 | 200   | PAPER       | \$0.45    | 6A7    | Mixer/Converter |
|         | 416      | 1   | 50K |           | \$0.20    | 0.005   | 1         | C 2 | 0.05 | 200   | PAPER       | \$0.35    | 6BE    | IF AMP          |
|         | 520      | 1   | 500 |           | \$0.20    | 1500    | 1         | C 3 | 500  | µF    | MICA        |           | 75     | AUDIO DET       |
|         | 125      | 1   | 4   | 20K       | 15K found | \$0.20  | 0.12      | 1   | C 4  | 0.11  | 400         | PAPER     | 42     | OUTPUT          |
|         | 11334    | 1   | 5   | 1M5C      |           | \$0.20  | 0.007     | 1   | C 5  | 0.05  | 200         | PAPER     | 30     | RECIPIER        |
|         | 1 MEG    | 1   | 8   | 500K V.C. |           | \$0.20  | 0.122     | 1   | C 6  | 0.11  | 400         | PAPER     | \$0.45 |                 |
|         | 7.8K     | 1   | 7   | 8K        |           | \$0.20  | 3872µF    | 1   | C 7  | 250µF | MICA        |           |        |                 |
|         | 394K     | 1   | 8   | 1M5C      |           | \$0.20  | 0.12      | 1   | C 8  | 0.11  | 200         | PAPER     | \$0.45 |                 |
|         | 558K     | 1   | 9   | 250K      |           | \$0.20  | 0.033     | 1   | C 9  | 0.02  | 400         | PAPER     | \$0.35 |                 |
|         | 505      | 1   | 10  | 500K      |           | \$0.20  | 500 µF    | 1   | C 10 | 500µF | MICA        |           |        |                 |
|         | 75K      | 1   | 11  | 300 W/W   |           | \$0.20  | 0.025     | 1   | C 11 | 0.02  | 400         | PAPER     | \$0.35 |                 |
|         |          |     |     |           |           |         | open      | 1   | C 12 | 0.01  | 200         | 055 found | \$0.31 |                 |
|         |          |     |     |           |           |         | 0.05      | 1   | C 13 | 4     | 450 ELECTRO | \$0.46    |        |                 |
|         |          |     |     |           |           |         | 0.07      | 1   | C 14 | 8     | 450 ELECTRO | \$1.15    |        |                 |
|         |          |     |     |           |           |         | 0.025     | 1   | C 15 | 0.02  | 100         | PAPER     | \$0.35 |                 |

| changes | TUBE | QTY | NOTES           | value  | changes | TUBE | QTY | NOTES  |
|---------|------|-----|-----------------|--------|---------|------|-----|--------|
|         | 6A7  | 1   | Mixer/Converter | \$0.45 |         | 6BE  | 1   | IF AMP |
|         | 75   | 1   | AUDIO DET       |        |         | 42   | 1   | OUTPUT |
|         | 30   | 1   | RECIPIER        |        |         |      |     |        |

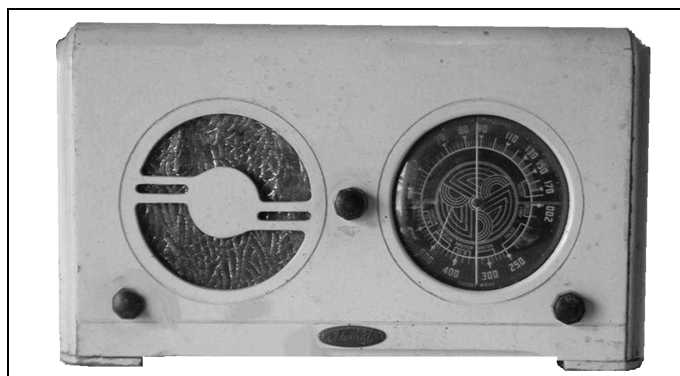
  

| changes | RESISTOR | QTY | W   | NOTES     | value  | changes | CAPACITOR | QTY | V    | NOTES | TUBE  | QTY    | NOTES |                 |
|---------|----------|-----|-----|-----------|--------|---------|-----------|-----|------|-------|-------|--------|-------|-----------------|
|         | 545      | 1   | 250 | 500 found | \$0.20 | 0.118   | 1         | C 1 | 0.11 | 200   | PAPER | \$0.45 | 6A7   | Mixer/Converter |
|         | 416      | 1   | 50K |           | \$0.20 | 0.005   | 1         | C 2 | 0.05 | 200   | PAPER | \$0.35 | 6BE   | IF AMP          |
|         | 520      | 1   | 500 |           | \$0.20 | 1500    | 1         | C 3 | 500  | µF    | MICA  |        | 75    | AUDIO DET       |

the selectivity is better than on many other radios I own. However, the short wave band was still silent.

So, I decided to look closer at what was intended to happen when the band switch was turned from BC to SW. In short wave mode sections of the antenna coil and the oscillator coil were to be shorted out to the chassis ground. When I checked the sections of the oscillator coil this was not happening when the switch was turned. The band switch was incorrectly wired to the oscillator coil. After I corrected the wiring error and performed the entire realignment dance once again the radio works fine on both bands.

### Cosmetics



After a lot of soul searching I decided to remove the white enamel paint that was on the radio and see if I could restore it to the original walnut finish. I chemically stripped the paint off and sprayed 3 coats of clear lacquer on the bare wood; gently using #0000 steel wool between the coats. The original grill cloth is faded, thin and has seen better days. I could not find a replacement that had a pattern anywhere near the original black leaves with gold edging & veins, so I put it back in. The result can be seen above.

All in all I have spent many enjoyable hours working on this \$3.33 radio!

## ***CRC May Meeting Activity***

OK folks, it's time be dragged into the 21st century. What the heck do we mean? Well, many of you already know that there's a wealth of antique radio information on the internet. At our next meeting we're going to have a chance to demonstrate, introduce and in general share this invaluable source with all who attend. Yeah, the internet is where the old meets ***and likes*** the new.

The Castle Rock Library has access to the internet available in the meeting room and Mike McCutcheon will be hosting a "Web-Site" show and tell program that's sure to be interesting for all. Mike would like to remind those who already have knowledge of internet sources to bring their favorite and interesting internet addresses for inclusion in the program. Addresses and other associated information can be brought on floppy disk, CD, or just simply written down.



**Found - THE MOST PRACTICAL GIFT FOR Christmas**

**Majestic RADIO PIRATE CHEST**

Unusual in design—unrivalled in performance—the new Majestic Radio Pirate Chest is the finest and most appreciated gift you could give this year. It makes an ideal second set for the home—the living room, den, bedroom, children's room, kitchen, sick room, etc. Just the gift for the boy or girl at school!

**\$19.75**

Complete with Marconi tubes and Federal tax paid

*Come in—see and hear it today!*

**The Chas. E. Wells Music Co.**

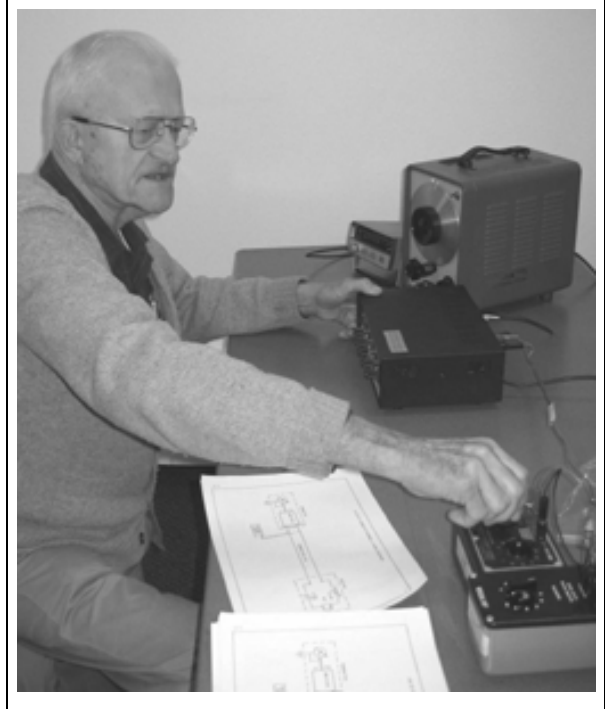
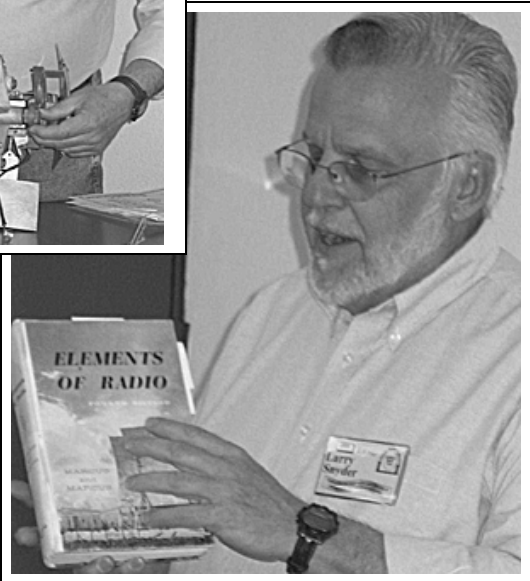
1628 California St., 822 Santa Fe Drive

*Denver Post*, Dec. 1932  
Courtesy of Ray Kilcoyne

# March/06 CRC Meeting



Larry Synder needs help finding the power and IF transformers for his Brunswick model R11A radio. He also shows the "Elements of Radio" book by Marcus and Marcus that he found.



Bart Whitehouse demonstrates resonance using the teaching aid equipment that he brought in.

Lower left: Dan Houfek explains some techniques of very early wireless with his Coherer Detector, Tesla coil "transmitter" and Coil receiver.



Merrill Campbell show us his very coveted Fada Catalin Radio.



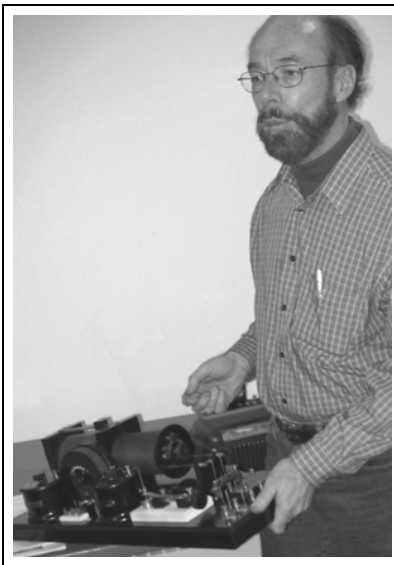
# and Show N' Tell



Robert Baumann and his "Blue Light Special" Novelty radio.



Bill Dial lights up the room with his Airline "Movie Dial" radio model 26-337.



Tom Pouliot and his "Duck Type" Loose Coupler, along with a matching detector, all constructed from his collection of antique radio parts.



Dave Boyle discusses how to tune a radio chassis, along with a talk on inductor theory.

# Collector Books for Sale

Special CRC prices. Order at club meetings. Mail order shipments: add \$2.00 postage for each book ordered. Info/order: Charles Brett, 5980 Old Ranch Road, Colorado Springs 80908, (719) 495-8660, [brett3729@aol.com](mailto:brett3729@aol.com). *void all other listings*

|  | Retail  | Club    |
|--|---------|---------|
| RADIOS, (GENUINE PLASTIC) OF THE MID CENTURY<br>Jupp & Pina, hard bound, 219 pgs., 1998 PG., 450+ color pics | \$39.95 | \$28.00 |
| ANTIQUE RADIOS, COLLECTOR'S GUIDE - 4th EDITION<br>Bums, 1997 values, revised & updated, new photos, 248 pgs | \$18.95 | \$15.00 |
| GUIDE TO OLD RADIOS, POINTERS... - 2nd EDITION<br>Johnson, 277 pgs, 1995-96 prices                           | \$19.95 | \$15.00 |
| ANTIQUE RADIO RESTORATION GUIDE - 2nd EDITION<br>Johnson, 144 pgs, repairing, refinishing, cleaning          | \$14.95 | \$12.00 |
| RADIO, EVOLUTION OF THE - VOLUME ONE<br>227 pgs, 118 in color, More than 800 radios pictured, 1992           | \$22.95 | \$18.00 |
| RADIO, EVOLUTION OF THE - VOLUME TWO<br>226 pgs, Radios of the 1920s to 1960s, with 93-94 values             | \$24.95 | \$19.00 |
| TRANSISTOR RADIOS, COLLECTOR'S GUIDE VOL. II<br>Bums, 1996 prices, Full Color                                | \$16.95 | \$13.00 |
| ZENITH TRANSISTOR RADIOS, 1955-1965<br>Smith, 1998 PG., 160 pgs, 226 color pics, info, deser.                | \$29.95 | \$22.00 |
| THE ZENITH TRANS-OCEANIC (THE ROYALTY OF RADIOS)<br>Bryant and Cones, 160 pgs, 1995                          | \$29.95 | \$22.00 |
| ZENITH RADIOS THE EARLY YEARS 1919-1936, Cones<br>1997-98 Price Guide, 223 pgs, 100's Photos, Desc., Hist.   | \$29.95 | \$22.00 |
| RADIOS BY HALLCRAFTERS, revised 2nd edition<br>Dachis, 1999 values, 220 pgs, 1000+ pics, id's, history       | \$29.95 | \$22.00 |
| CLASSIC TV'S, PRE-WAR THRU 1950'S<br>86 pgs, color & b/w pics, descriptions, etc.                            | \$18.95 | \$15.00 |
| Machine Age to Jet Age, Radionama's Table Radio Guide - III, 33-'62<br>Stein, 256 pgs., 100's of b/w photos  | \$29.95 | \$24.50 |
| TRANSISTOR RADIOS, 1954 TO 1969<br>Norman Smith, with prices, 160 pgs, 1000 photos, 1998                     | \$29.95 | \$22.00 |
| PHO CO RADIO: 1928 - 1942<br>Ramires & Prosser, 160 pgs, 828 pics & drawings, 1993                           | \$29.95 | \$22.00 |
| RADIO AND TV PREMIUMS<br>Jim Harmon, 256 pgs, 200+ photos, 1997  | \$24.95 | \$19.00 |
| RADIO MANUFACTURES OF THE 1920'S VOL. I<br>Alan Douglas, 225 pgs, 1988                                       | \$24.95 | \$19.00 |
| RADIO MANUFACTURES OF THE 1920'S VOL. II<br>Alan Douglas, 266 pgs, 1989                                      | \$29.95 | \$22.00 |
| RADIO MANUFACTURES OF THE 1920'S VOL. III<br>Alan Douglas, 285 pgs, 1991                                     | \$29.95 | \$22.00 |
| CRYSTAL CLEAR VOL. 1<br>Maurice Stevens, 282 Pgs, 1991   | \$29.95 | \$22.00 |
| CRYSTAL CLEAR VOL. 2<br>Maurice Stevens, 252 Pgs, 1995   | \$29.95 | \$22.00 |

|  |         |         |
|--|---------|---------|
| RADIO TUBES AND BOXES OF THE 1920'S<br>George A Fehner, 112 Pgs, 1999                                | \$26.95 | \$20.00 |
| 70 YEARS OF TUBES AND VALVES, 2ND EDITION<br>John Stokes, 264 Pgs, 1997                              | \$29.95 | \$22.00 |
| RADIO DIAGRAM SOURCEBOOK<br>Richard Gray, 264 Pgs, 1996  | \$18.95 | \$15.00 |
| THE RADIO COLLECTOR'S DIRECTORY AND PRICE GUIDE, 2ND ED.<br>Robert Ginder, 524 Pgs, 1995             | \$26.95 | \$21.00 |
| COLLECTOR'S GUIDE TO VINTAGE TELEVISION<br>Dudral & Glenn Bubsmeier, 200 Pgs, 1999                   | \$15.95 | \$13.00 |
| NOVELTY RADIOS, VOLUME 1<br>Mary Bums & Robert Breed, 222 Pgs, 1995                                  | \$18.95 | \$15.00 |
| NOVELTY RADIOS, VOLUME 2<br>Mary Bums & Robert Breed, 199 Pgs, 1999                                  | \$19.95 | \$15.00 |
| COMPLETE PRICE GUIDE TO ANTIQUE RADIOS: PRE-WAR CONSOLES<br>Mark Stein, 235 pgs, 100's of b/w photos | \$26.95 | \$22.00 |
| TUBE TESTERS AND CLASSIC ELECTRONIC TEST GEAR<br>Alan Douglas, 166 Pgs, 2000                         | \$25.95 | \$19.50 |
| COLLECTOR'S VACUUM TUBE HANDBOOK, VOLUME I<br>Robert T. Milbard, 196 Pgs, 2001                       | \$25.95 | \$19.50 |
| SILVERTONE ANTIQUE RADIOS 1930 - 1942<br>Stein, 239 pgs., 2001                                       | \$34.95 | \$25.50 |
| ANTIQUE RADIOS COLLECTOR'S GUIDE 5th EDITION<br>John Slusser, 264 Pgs, 2001                          | \$19.95 | \$15.00 |
| RADIOCRAFT JUBILEE - REPRINT OF 1938 EDITION<br>Hugo Genzshack, Vestal Press                         | -----   | \$12.00 |
| CLASSIC CONE SPEAKERS<br>Batford & Jane Chidester, 122 Pgs, 2001                                     | \$25.95 | \$19.50 |
| TUBE LORE<br>Ludwiel Sibey, 186P pgs, 1996   | \$29.00 | \$15.00 |
| ARTHUR COLLINS RADIO WIZARD<br>Ben Sterns, 394 Pgs, 2002   | \$18.95 | \$14.00 |
| MACHINE AGE TO JET AGE - VOL. I<br>Mark V. Stein, 256 Pgs, 1998                                      | \$24.95 | \$21.00 |
| MACHINE AGE TO JET AGE - VOL. II<br>Mark V. Stein, 358 Pgs, 1997                                     | \$28.95 | \$23.00 |
| TABLETOP RADIOS - Vol. I<br>Mark V. Stein, 240 Pgs, 2002   | \$29.95 | \$22.00 |
| A. ATWATER KENT<br>Williams & Volkowicz, 108 Pgs, 2003   | \$25.95 | \$19.50 |
| THE WOOD FINISHER<br>Bruce Johnson, 341 Pgs, 1993  | \$12.00 | \$10.00 |
| THE WEEKEND REFINISHER<br>Bruce Johnson, 296 Pgs, 1989   | \$12.00 | \$10.00 |
| THE PLAYING MAN'S MANUAL<br>Johnson  | ----    | \$10.00 |
| THE FABULOUS VICTROLA "45"   |         |         |

|   |         |         |
|---|---------|---------|
| Paul Vourakis, 176 Pgs, 2002  | \$29.95 | \$22.00 |
| ZENITH RADIOS THE GLORY YEARS 1936 - 1945<br>Cones, Bryant & Blankship, 256 Pgs, 2003           | \$34.95 | \$25.50 |
| ZENITH ILLUSTRATED CATALOG AND DATABASE 1936 - 1945<br>Cones, Bryant & Blankship, 182 Pgs, 2003 | \$29.95 | \$22.00 |
| THE ALL AMERICAN FIVE RADIO<br>Richard McWhorter, 92 Pgs, 2003                                  | \$19.50 | \$15.00 |
| E.H. SCOTT...THE DEAN OF DX, 2ND EDITION<br>Marvin Hobbs, 240 Pgs, 2003                         | \$29.95 | \$27.50 |
| ANTIQUE RADIOS 6TH EDITION<br>John Slusser, 320 Pgs, 2004                                       | \$24.95 | \$19.50 |
| OLD TIME RADIOS<br>Joseph Carr, 256 Pgs, 1991   | \$19.95 | \$15.00 |



# The Open Trunk

Member submitted advertisements



Submission of Sell/Want ads are always free to CRC members. Non-members may advertise in the Flash for \$0.20 a word. Display advertising is available by contacting the CRC publisher for info and rates.

**WANTED:** Morse keys/bugs/paddles, Allied Radio/Knight Kits, "heavy metal" communications gear (Hallicrafters, Hammarlund, etc). Also Icom R71-A accessories: EX257 FM PCB and FL-44A SSB filter.

**Robert Baumann**, (303) 988-2089  
rgbdenver@worldnet.att.net **02/06**

**WANTED:** Good cabinet for Westinghouse "columnaire" deco grandfather clock radio. Working or restorable Zenith port hole television.

**Bob Cofer**, (303) 257-9598  
red05ram@hotmail.com **02/06**

**WANTED:** Interstage audio transformer for a Radiola 60. Looks like a small loaf of bread. Part number GW-42.

**Mark McKeown**, (303) 278-3908  
mmckeown@direcway.com **02/06**

**WANTED:** A Triplett Model 1200-A VOM. If anyone has one they can part with, please contact;

**Steve Touzalin**, (303) 988-5394  
stevet@champmail.com **12/05**

**WANTED:** Heathkit electronics of any type; the older the better. Also, Heathkit catalogs and flyers. Please contact **Bob Schineller**, KA0RRX.

schineller@comcast.net **12/05**

**FOR SALE:** Battery and early AC sets, transistor radios, test equipment and parts, and lots of tubes, including some fairly old ones. For more info;

**Dick Craft**, (970) 240-1387  
montrosecraft@yahoo.com **02/06**

**WANTED:** Escutcheon for Stewart Warner model 900 series. This is a metal box type radio made in 1929.

**Jerry Tynan**, (303) 642-0553  
Jtynan@att.net **02/06**

**FREE FREE FREE FREE FREE:** Reel to Reel tape decks, mostly Teac. Includes tapes and boxes.

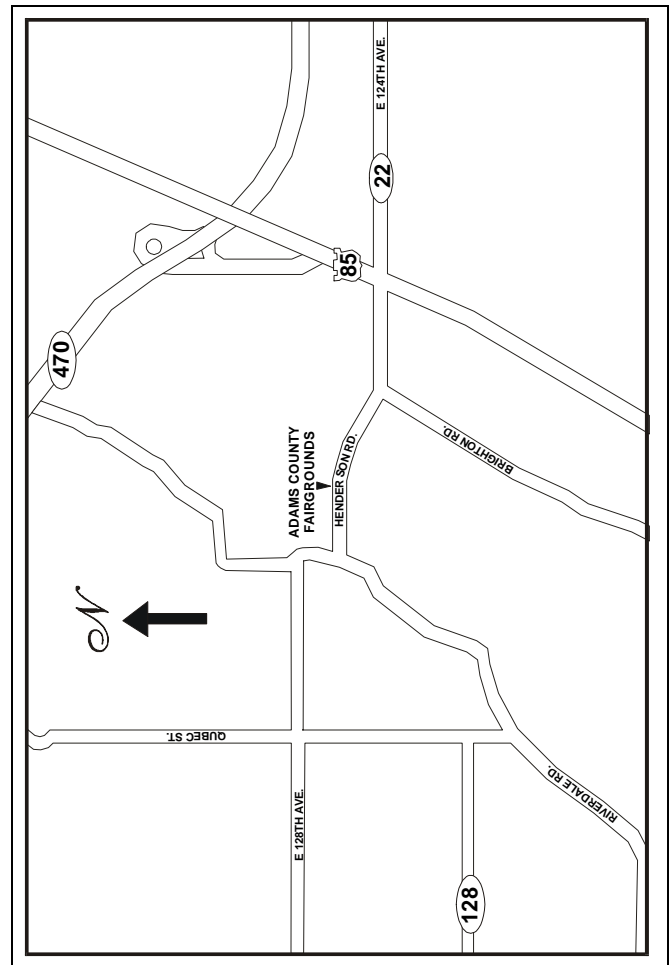
**Fred Bantin**, (303) 427-5431  
jbantin@sprynet.com **03/06**

**WANTED:** Looking for a horn for a Western Electric 10D speaker.

**Michael Cook**, (720) 482-4979  
mcook@lucent.com **04/06**

## Directions to the CRC 2006 Annual Show, Contest and Sale Adams County Fairgrounds 9755 Henderson Rd.

I-76 to Hwy 85  
North to 124th St.  
West 1.5 mi. to Fairgrounds



*For our May 21st, 1:00pm meeting ....  
We will be meeting at the Castle Rock Public Library Building*

**From I-25, take the Plum Creek Pkwy exit  
Turn East onto Plum Creek Pkwy  
Turn LEFT/North onto S. Wilcox St.  
Go to the CR Public Library building at 100 S. Wilcox St.  
The meeting is at the back of the lot, past the Dairy Queen.**



**Colorado Radio Collectors**

**Antique Radio Club**

**417 S. Queen Cir.**

**Lakewood CO 80226**

**FIRST CLASS MAIL**