



Volume 23, Issue 4

The July 8th meeting is at the Philip Miller Library in Castle Rock

July/August 2012

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

Plastic Radio Repair By CRC member Merrill Campbell

When is it time to trash a radio or fix it? If there is crack or a chunk missing from the case, what can be done to attempt to fix it? If the crack is on the bottom or sides or near the back it can probably be saved. There is no magic to do this and what you do will in the right light be detected. My attitude with a crack or piece missing is that there is nothing you can do to make it worse, so go for the fixing. The radio I will write and diagram about is a Crosley Model 11-101U. This radio has two cracks

on the top at each corner, one crack on the dial, one crack running along the fin across where the knob is and across $\frac{3}{4}$'s of the front. There was also a chunk broken out of the fin on the back side approximately 1 $\frac{1}{2}$ " in and 1 $\frac{1}{2}$ " across. I will put this in 4 categories.

1. Gluing or securing
2. Filling voids or missing chunks
3. Sanding
4. Painting and shining

Gluing or Securing

The first thing to do is strip case down to bare case. This means removing the chassis, back, knobs, grill cloth, label if loose and anything else there is to take off. At this time I like to wash the case. I wash in cold water with mild dish soap. If there is a label that is stuck totally to the case then I just let it get wet while washing. If the label gets wet it will dry all the same color. At this time the case needs to dry thoroughly. After drying, use an epoxy to secure cracks. I use Loctite Epoxy with a five minute setting time sold at Wal-Mart. Epoxy all cracks from the inside of case working the epoxy into the cracks. On larger cracks use pieces of mesh used for sheetrock cracks. Cut the pieces of mesh to lay over the cracks on the inside of the case and epoxy. If the cracks are not pulling together a clamp with light pressure would be recommended. Let the epoxy dry and cure for approximately 24 hours.

Filling Voids or Missing Chunks



To fill voids or missing chunks of the case I use an interior patch-all made by Synko. It is non-shrinking, plastic patching material used for floor leveling. This material is a powder form mixed with water. What I can use in 15 minutes is all I mix up. It



dries rather quickly. When filling a void, I like to use the sheetrock seam mesh. This is laid across the void and the putty is

(Continued on page 3)

Inside this issue:

Presidents Message	2
It's Auction Time	3
RMS Titanic's Radio Room	3
Tube price sheet	4-5
Photos from May's Meeting	6
Open Trunk	7

Do you want to see this issue in COLOR?
Join the CRC e-group—Contact Mark Dittmar for information

Visit the CRC Website at WWW.RADIOACE.COM

COLORADO RADIO COLLECTORS ANTIQUE RADIO CLUB

Founded October 1988
The Flash! © 2012, all rights reserved

Message from the President

Hello to all Club Members,

First I would like to thank Mike Cook for filling in for me at the last meeting. Now looking forward to our July 8th

meeting at the Castle Rock Phillip Miller Library we have quite an interesting presentation on the agenda. Fellow club member, and craftsman extraordinaire Don

Andrus will be showing his completed replica of the radio operators desk and included wall back drop of the Titanic's radio room. The exhibit is quite amazing and I'm sure will be the highlight of the meeting. Don will provide a detailed explanation of all of the various components, some of which actually function as a rendition of the real operation. Q & A will, of course, be included in his presentation.



Our agenda for the next meeting will include the usual "Show and Tell", so please bring on those radios or related ephemera. And don't forget to bring items

for the raffle and in-room auction sales. Also, Merrill Campbell will give a demonstration of Plastic Radio repair. I'm really looking forward to see how he

does his magic.

Our new business will include the initial organizing discussion for the September Annual Auction and BBQ. That event will be held on Sunday, September, 30th at our usual and fine venue.

See You All July 8th.

David

Internet and email address are now live links, just click on them to use them.

CRC CONTACTS

President	David Boyle 303-681-3258 Djboylesr at msn.com
Vice President	Bill Bush 303-979-1960 WildBillK01KP at aol.com
Treasurer	Mike Cook (303) 471-9596 Mldcook at hotmail.com 2383 Indian Paintbrush Circle Highlands Ranch, CO 80129
Archive and Books	Charles Brett (719) 495-8660 Brett3729 at aol.com
Egroup Manager	Mark Dittmar (303) 877-0158 Mbdittmar at comcast.net
Flash! Publisher	Steve Touzalin (303) 988-5394 Stevetou at comcast.net
Flash Graphic Editor	Rich Kuberski ROKuberski at msn.com
Flash! Distribution	Richard Beckman (303) 344-8565 Rebdalbeck at msn.com
Webmaster Website	Bill Grimm www.radioace.com

NOTE: at = @ in email addresses

Upcoming Events

2/14—Valentines Day
3/11—March CRC Meeting
3/25—CRC Show

Meeting Locations

(Unless noted otherwise)

Littleton	Castle Rock
January	March
May	July
September	November

CRC MEETINGS

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

CRC MEMBERSHIP

Annual membership in the CRC runs from July to June. Dues entitle members to attend meetings, "The Flash!" our newsletter, discount book prices, participation in our spring show and Fall auction. Current annual dues are \$20. New memberships will be prorated to the following June.

(Continued from page 1)

worked into the mesh. This is for extra support. When filling and putting on mesh make sure not to fill to where it will interfere with putting the chassis back in. On some Bakelite cases, I have drilled small holes on each side and added toothpicks across the void to add support. At this time it needs to be formed close to design to reduce sanding. This needs to dry overnight before sanding.

Sanding



To start with I take a flat file and get eve-

rything filed down to a rough cut. Then take a 400 grit piece of wet or dry sandpaper and sand it down dry. Then look to see if there are any low spots. I take a bondo glazing and spot putty and fill in. Letting this dry overnight I take 400 grit wet or dry sandpaper. This time using the wet and sanding to a smooth finish. This Crosley radio was painted Bakelite. If a spray paint is used the smoothness is critical. On the brown Bakelite don't be afraid to wet sand it.

Painting and Shining

For this Crosley radio I took a blue acrylic paint and got all the areas to a blue close to the original color. The original paint was a metallic. I went to an Auto Parts store and found a metallic that matched almost perfectly. I gave the affected areas four coats of paint, wet sanding between coats. After the paint was dry I hand buffed the case with Brasso to bring out the shine. There are other products that do the same thing. I have used the Novus Brand on Bakelite. I only use Novus #2 on Bakelite. The

Novus #1 leaves a haze. There is also Permatex plastic cleaner that works well.

Summary

To sum up what I have done to save some radios from the landfill is taking some products found at garage sales and experimenting. Just remember the radio is broke and cracked - you can't hurt it; just help it.



I will answer any questions and do a show and tell at the July meeting.

It's Auction Time Again

This year, the **CRC Auction** will be held **Sunday, September 30th** at the same location as the past 5 years. The **Tectonic Management Group** office grounds in **Wheat Ridge**. Gather up all of your great stuff and bring it down. We will have the picnic as well. This is a great opportunity to get acquainted with club members not to mention the tremendous bargains that are available.

See you there!

Come one—Come all

See the magnificent recreation of the famous **RMS Titanic's** Radio Room

This beautiful exhibit has been put together by our very own Don Andrus.

It is currently being displayed at the Molly Brown House in Denver, but Don has "borrowed" it back for the weekend so we can all admire it.

NOTICE:

Come on guys—Who's got this stuff?

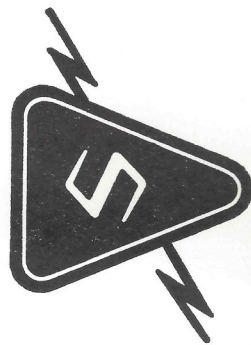
Charlie Brett loaned his collection of back copies of the Flash so they could be scanned. He would like these returned, but can't remember who he loaned them to.

Larry Weide and Rich Kuberski are planning to create a complete electronic copy of all back issues of the Flash and include it on their CRC Show video disk. They will need these copies to complete this project.

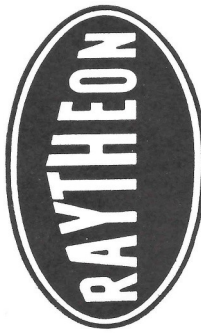
Please contact Charlie if you have these copies. 719-495-8660

CHAUNCEY'S

Wholesale Distributors of Radio and Television Tubes



MAIN OFFICE
4740 W. CHICAGO AVE.
CHICAGO 51, ILLINOIS
ESTebrook 9-1050



1327 W. 79th ST.
CHICAGO 20, ILLINOIS
Hudson 3-7670

136 PULASKI RD.
CALUMET CITY, ILLINOIS
TOrrence 2-5688

1908 CENTRAL ST.
EVANSTON, ILLINOIS
Davis 8-5670

103 S. LA SALLE ST.
AURORA, ILLINOIS
AURORA 7-4711

1014 BELVIDERE
WAUKEGAN, ILLINOIS
ONTARIO 2-1450

12712 S. WESTERN
BLUE ISLAND, ILLINOIS
Fulton 8-9611

610 LEE ST.
DES PLAINES, ILL.
VA 7-3127

3204 N. PULASKI
CHICAGO 41, ILL.
Avenue 3-2570

0Y4	4.80	3BN4	2.40	6AU5GT	4.10	6DV6	4.80	7B7	2.95	12DQ8GT	4.00	32	3.85	16FP4	35.75
0Z4	1.65	3BN6	2.85	6AU6 A	2.00	6E5	2.80	7B8	3.15	12DV8	4.00	32L7GT	3.80	16GP4-B	48.25
0Z4G	2.00	3BU8	2.65	6AU8	3.35	6F5, G, GT	2.95	7C4	4.45	12DW8	3.05	33	3.35	16PA-A	44.50
1A3	3.00	3BY6	2.25	6AV5GT, GA	3.40	6F6	3.60	7C5	3.10	12DZ6	2.35	34	3.50	16PA/16RP4	33.25
1AP	4.05	3BE6	2.25	6AV6	1.60	6F6G	2.85	7C6	2.95	12EA6	2.35	35/51	3.00	16PA/16RP4A	40.50
1A5GT	2.85	3C6/XXB	3.90	6AW8, A	3.40	6F6GT	2.85	7C7	2.85	12EL6	1.65	35A5	3.10	16PA/16RP4	44.50
1A6	3.60	3CB6	2.25	6AX4GT	2.50	6F7	2.80	7E5	3.60	12EM6	2.70	35B5	2.50	16PA/16RP4	33.25
1A7GT	3.30	3CF6	2.45	6AX5GT	2.85	6F8G	4.85	7E6	3.60	12F8	2.50	35C5	2.05	16PA	33.25
1AB5	3.70	3CS6	2.35	6AX8	3.15	6G6G	3.75	7E7	4.00	12F5GT	3.00	35L6GT	2.30	16PA-A	44.50
1AC5	3.50	3D6 (1299)	5.15	6AZ8	4.00	6H6	2.65	7F7	3.35	12G4	1.55	35W4	1.35	16PA/16LP4A	44.50
1AD5	4.25	3DK6	2.30	6B4G	4.50	6H6GT	2.30	7F8	4.10	12H6	2.65	35Y4	2.45	17AP4	39.00
1AF4	4.35	3DT6	2.10	6B5	3.55	6I5	2.40	7G7	3.55	12J5GT	2.40	35Z3	2.45	17AP4/17AVP4	35.25
1AF5	2.00	3E6	4.05	6B6G	2.10	6J5GT	2.65	7H7	3.65	12J7GT	3.40	35Z4GT	2.00	17AVP4/17ATP4	35.25
1AG4	2.85	3LF4	3.75	6B7	3.35	6J6, A	2.65	7J7	4.60	12J8	3.20	35Z5T	1.80	17AVP4/17ATP4	35.25
1AH4	2.35	3Q4	2.65	6B8, G	4.50	6J7, G	3.40	7K7	4.00	12K5	2.55	36	3.40	17AVP4A/17ATP4A	35.25
1AJ5	2.70	3Q5GT	3.45	6BA6	1.90	6J7GT	3.40	7L7	3.80	12K7G, GT	3.00	37	2.65	17BP4-A/17JP4	33.25
1AX2	2.95	3S4	2.35	6BA7	3.50	6J8G	3.70	7N7	3.00	12K8, GT	4.05	38	3.00	17BP4-B	40.50
1B3GT	2.75	3V4	2.25	6BA8, A	3.40	6K5GT	2.95	7O7	3.65	12L6GT	2.35	39/44	3.40	17BP4	40.50
1B5	3.35	4AU6	2.10	6BC5	2.20	6K6GT	2.75	7R7	4.60	12Q7GT	2.85	40A1	2.60	17BP4	40.50
1B7GT	3.35	4BC5	2.25	6BC7	3.40	6K7	3.40	7S7	4.20	12R5	2.95	40B2	2.60	17BP4	40.50
1C3	2.75	4BC8	3.85	6BC8	1.90	6K7G	2.95	7V7	4.40	12S8GT	2.65	41	3.00	17BVP4	47.75
1C5GT	3.25	4BN6	2.80	6BD4A	2.50	6K7GT	3.00	7W7	4.20	12SA7, GT	2.90	42	3.65	17BWP4	47.75
1C6	3.35	4BQ7A	3.80	6BD5GT	4.35	6K8	3.00	7X6	2.95	12SB7, GT	3.00	43	3.00	17BZP4	47.75
1C7G	3.35	4BS8	2.20	6BD6	2.20	6K8GT	2.75	7X7 (XXFM)	5.25	12SF5, GT	2.65	45	2.20	17CAP4	47.75
1C8	3.10	4BU8	2.65	6BE6	2.10	6L5G	2.75	7Y4	2.45	12S7	3.75	45Z3	1.90	17CLP4	42.50
1D5GP	4.05	4BZ7	3.85	6BF5	2.50	6L6	5.50	7Z4	2.45	12SG7, GT	3.15	45Z5GT (40Z5)	1.80	17CNP4	42.50
1D7G	3.60	4CB6	2.25	6BF6	1.70	6L6G, GA, GB	4.00	8A8	3.40	12SH7, GT	3.35	46	3.40	17CP4	43.75
1D8GT	4.15	4DT6	6.20	6BG6, A	3.95	6L7	3.95	8A8A	3.50	12SJ7, GT	2.75	47	7.05	17CFP4	42.50
1E5GP	4.05	5AM8	3.10	6BH6	2.60	6L7G	3.95	8A8A	3.40	12SK7, GT	2.65	49	34.00	17FP4-A	34.00
1E7GT	4.05	5AN8	3.40	6BH8	3.35	6N6G	3.90	8B8	3.40	12SL7GT	3.35	50	48.25	17GP4	48.25
1E8	4.70	5AQ5	2.10	6BJ6	2.50	6N7	3.85	8N8	2.85	12SN7GT, A	2.55	50A1	3.10	17HP4/17RP4	35.25
1F5G	2.75	5AS4	1.90	6BJ7	2.70	6N7GT	3.70	8CG7	2.35	12SQ7, GT	2.35	50A5	3.55	17HP4B/17RP4C	42.50
1F6	4.05	5AS8	3.25	6BJ8	2.70	6P5GT	2.65	8CM7	2.70	12SK7, GT	2.65	50B5	2.50	17KP4	35.75
1G3GT	2.75	5AT8	3.10	6BK4	6.75	6Q6 G (6T7G)	3.35	8CN7	2.50	12U7	2.05	50C5	2.05	17PA/17BP4A	35.00
1G4GT	2.55	5AU4	3.15	6BK5	3.20	6Q7	3.25	8CS7	2.85	12V6GT	2.05	50C6G	3.50	17PA/17VP4	35.25
1G5G	3.15	5AV8	3.80	6BK6	1.65	6Q7, G, GT	2.85	8SN7GTB	2.50	12W6GT	2.70	50CD6G	6.60	17PA/17VP4B	42.50
1G6GT	3.00	5AW4	2.50	6BK7A, B	3.20	6R7, GT	3.45	9CL8	3.00	12X4	1.60	50L6GT	2.30	17OP4A	40.50
1H4G	2.40														

11A	3.25	5BK7A	3.25	6BN6	2.90	6S7G	3.35	12A4	2.40	14A7 (12B7)	3.10	19A4-B	2.75
11L6	2.60	5BQ7A	3.55	6BN8	2.55	6S8GT	2.75	12A6, GT	4.25	14A7 (XND)	3.35	20CP4A/20DP4A	52.50
11A4	3.05	5BR8	3.20	6B05	2.50	6SA7, GT	2.90	12A7	3.90	14B6	2.95	20CP4A/20DP4C	40.25
11A6	3.15	5BT8	3.15	6B06G, GT, A	4.15	6SB7Y	4.35	12A8GT	3.80	14B8	3.20		
	3.65	5C88	3.10	6BQ7A	3.80	6SC7	2.90	12AB5	2.30	14C5	3.60		
11B4	3.95	5CL6	3.00	6BR8	3.15	6SD7GT	3.95	12AC6	2.10	14C7	3.00	20DP4A/20CP4A	48.00
11C5	3.60	5CL8	3.00	6BS8	3.65	6SF5, GT	2.55	12AD6	2.10	14E6	3.55		
11C6	3.65	5CM8	3.45	6BT6	1.65	6SJ7GT	3.40	12AD7	2.95	14E7	3.40	20DP4C/20CP4D	40.25
11D5	3.80	5J6	2.70	6BU5	5.50	6SG7, GT	3.30	12AE6	1.75	14F7	3.45		
11E3	3.80	5T4	5.95	6BU6	1.65	6SH7	3.35	12AF6	2.10	14F8	4.10	20HP4A/20MP4/	48.00
												20LP4	42.75
11G5	3.60	5T8	3.25	6BU8	2.65	6SH7GT	3.35	12AH7GT	3.75	14H7	3.65		
11H4	3.55	5U4G	2.05	6BV8	3.00	6SJ7	2.65	12AJ6	1.85	14J7	4.50	20HP4-D	49.75
11N5	3.55	5U4GB	1.90	6BW4	1.70	6SK7GT	2.65	12AL5	1.85	14J7	3.35	20MP4/20HP4	42.75
11P5G, GT	3.20	5U8	3.20	6BX7GT	3.85	6SK7, GT	2.65	12AI8	4.00	14K7	3.65		
		5V3	3.40	6BY5G, GA	3.80	6SL7GT	3.20	12AU7, A	2.35	14K7	2.30	21ACP4A/	50.75
11Q5G, GT	3.60	5V4G, A	3.15	6BY6	2.20	6SN7GT	2.50	12AS5	2.15	14E7	4.60	21AMP4-A/	
11R4/1294	2.65	5V6GT	2.15	6BY8	2.55	6SN7GTA, B	2.50	12AS6	2.40	14S7	4.10	21BSP4	48.00
11R5	3.35	5W4, GT	1.75	6BY8	2.55	6SQ7, GT	2.35	12AT6	1.85	14W7	4.20	21ALP4-A/B	49.75
11S4	2.40	5X4G	2.15	6C5	2.25	6SV7	3.70	12AT7	2.90	14X7	3.35	21ATP4, A	49.75
	3.20	5X8	3.10	6BZ8/X155	4.25	6SZ7	2.45	12AU6	2.05	14Y4	4.20	21AUP4-A/B	49.75
IS5	2.25	5Y3G, GT	1.65	6C4	1.75	6T4	4.00	12AV6	2.05	17AV5GA	3.65	21AVP4-A/B	49.75
IS6	2.80	5Y4G, A	2.30	6C5	2.65	6T8, A	3.20	12AV6A	3.65	17AX4GT	2.55	21AWP4	48.00
IT4	2.25	5Z3	2.90	6C6	2.55	6U4GT	2.40	12AV7	1.60	17C5	2.25	21AXP22A	160.00
IT5GT	2.80	5Z4	2.90	6C7	3.80	6U5 (GG5)	3.00	12AX7	3.15	17D4GT	2.60	21BTP4	49.75
IT6	3.95	6A3	4.35	6C8G	4.55	6U6GT	2.45	12AW6	2.95	17DQ6	4.00	21CBP4A	49.75
		6A4	4.50	6CA5	2.20	6U7G	2.40	12AX4GT, A	2.50	17H3	2.05	21CEP4	55.00
IU4	2.25	6A5G	5.70	6CB5, A	6.90	6U8, A	3.15	12AX7	2.35	17R5	2.50	21CMP4	49.75
IU6	2.00	6A6	2.75	6CB6A	6.90	6V3A	4.15	12AX7	6.00	18A5	3.60	21CQP4	55.00
IV	3.20	6A7	3.80	6CB6G, A	5.55	6V6G, GT	2.05	12B06	2.15	19A4GT, A	3.30	21CUP4	48.00
IV2	1.90	6A8, G, GT	3.70	6CE5	2.25	6W4GT	2.30	12B06	2.05	19B66G, A	6.20	21CWP4	49.75
		6AB4	2.05	6CF6	2.40	6W6GT	2.70	12B06GT/A, B	4.30	19C8	3.95	21DEP4	55.00
IV5	2.80	6AB5	3.55	6CG7	2.35	6W7G	2.75	12B06GT	2.50	19E4	3.95	21EP4-A	42.00
IV6	2.90	6AB7 (1853)	4.45	6CH8	3.00	6X5	2.75	12B06	1.65	19G6	3.90	21EP4-B	49.75
IV4	3.10	6AC5GT	3.85	6CL5	7.60	6X6	2.75	12B06	1.65	19H8	3.60	21FP4-C	51.50
IX2A, B	2.95	6AD7G	5.25	6CL6	7.60	6X7	2.00	12B06GT	2.50	19X8	3.75	21KP4-A	54.75
										24A	3.40	21MP4	52.50
2A3	5.70	6AF4, A	3.80	6CL8	3.00	6Y6G, GA	3.00	12B06	1.65	25AC5GT	2.90	21WP4	40.25
2A5	2.30	6AF6G	3.40	6CM6	2.65	6Z7G	3.30	12B06	1.65	25AV5GA	2.90	21WP4-A	48.00
2A6	3.20	6AG5	2.50	6CM7	2.65	6Z8G	4.05	12B06	1.65	25CA5	2.85	21XP4	42.00
2A7	3.20	6AG7	4.40	6CM8	3.75	6ZY5G	2.75	12B06	1.65	25CB5	3.30	21XP4-A	49.75
2AF4A	3.85	6AH4GT	2.95	6CN7	2.50	7A4/XXL	2.90	12B06	1.65	25CU6	4.40	21YP4	42.00
										25OD6G, A, B	5.55	21YP4-A	49.75
2B3	2.75	6AH6	4.25	6CQ8	3.20	7A5	3.40	12B06	1.65	25DN6	5.55	21ZP4-A	40.25
2B7	3.40	6AK5	4.50	6CR6	2.30	7A6	2.85	12B06	1.65	25DQ6	3.90	21ZP4-B	48.00
2B4	2.40	6AK6	2.85	6CS6	2.30	7A7	3.10	12B06	1.65	25F5	2.25	24AHP4	71.25
2CV5	2.70	6AL5	1.75	6CS7	2.65	7A8	3.95	12B06	1.65	25L6GT	2.20	24ALP4	76.50
2E5	2.75	6AL7GT	5.45	6CU5	2.25	7AD7	5.75	12B06	1.65	25W4GT	2.60	24ALP4	76.50
												24CP4	65.50
2V2	4.60	6AM4	5.35	6CU6	4.15	7AF7	3.40	12B06	1.65	25W4GT	2.60	24CP4-A/24VP4A/	69.00
3A2	3.35	6AM5, A	3.15	6CU8	3.50	7AG7	3.45	12B06	1.65	25Z6	2.75	24DP4-A/24YP4	71.25
3A3	3.25	6AN4	4.55	6CX8	3.40	7AH7	2.10	12B06	1.65	25Z6GT	2.75	24VP4/24DP4A	71.25
3AGT	5.80	6AN8, A	3.85	6D6	3.50	7AJ7	2.35	12B06	1.65	26	2.85	27EP4	118.75
3AF4A	3.85	6A95, A	2.05	6D8G	3.35	7AU7	2.50	12B06	1.65	26BK6	1.65	27GP4	118.75
												15DP4A	37.75
3AL5	1.80	6A96	2.06	6DE5	2.60	7B4	2.70	12B06	1.65	27	2.85	16AP4A	48.25
3AU6	2.05	6AG7GT	3.55	6DE6	2.65	7B5	4.20	12B06	1.65	30	2.25	16DP4-A	46.40
3AV6	1.65	6AS5	2.35	6DE6	2.35	7B6	2.90	12B06	1.65	31	2.75	16EP4A, B	53.00
3B2	5.15	6AS8	3.20	6DG6GT	2.35								
3B7 (3B7/1291)	6.10												
3BA6	1.80	6AT6	1.85	6DN6	5.55								
3BC5	2.25	6AT8, A	3.10	6DQ6, A	3.95								
3BE6	2.15	6AU4GT, A	3.20	6DT6	2.05								

PICTURE TUBES

53	2.75	19A4-B	52.50
55	2.85	20CP4A/20DP4A	40.25
56	2.65	20CP4D/20DP4C	48.00
57	2.85	20CP4A/20MP4/	48.00
58	2.85	20LP4	42.75
59	3.70	20DP4A/20CP4A	40.25
70	3.40	20DP4C/20CP4D	48.00
71A	3.40	20HP4A/20MP4/	48.00
75	3.40	20LP4	42.75
76	1.70	20HP4-D	49.75
77	2.20	20MP4/20HP4	42.75
78	3.40	21ACP4A/	50.75
79	2.75	21AMP4-A/	48.00
80	2.30	21BSP4	48.00
81	4.65	21ALP4-A/B	49.75
82	2.75	21ATP4, A	49.75
83	2.70	21AUP4-A/B	49.75
83V	4.20	21AVP4-A/B	49.75
84/67A	2.65	21AWP4	48.00
85	2.85	21AXP22A	160.00
89	2.85	21BTP4	49.75
117L/M7GT	8.35	21CBP4A	49.75
117N7GT	8.15	21CEP4	55.00
117P7GT	8.15	21CMP4	49.75
117Z3	2.35	21CQP4	55.00
117Z4GT	2.90	21CUP4	48.00
17Z6GT	3.95	21CWP4	49.75
FM-1000	3.20	21DEP4	55.00
5642	2.75	21EP4-A	42.00
		21EP4-B	49.75
		21FP4-A	43.75
		21FP4-C	51.50
		21KP4-A	54.75
		21MP4	52.50
		21WP4	40.25
		21WP4-A	48.00
		21XP4	42.00
		21XP4-A	49.75
		21YP4	42.00
		21YP4-A	49.75
		21ZP4-A	40.25
		21ZP4-B	48.00
		24AHP4	71.25
		24ALP4	76.50
		24CP4	65.50
		24CP4-A/24VP4A/	69.00
		24TP4/24ADP4	69.00
		24DP4-A/24YP4	71.25
		24VP4-A	69.00
		24VP4/24DP4A	71.25
		27EP4	118.75
		27GP4	118.75
		27LP4	118.75
		27NP4	118.75
		27RP4	118.75

EFFECTIVE
Dec. 17th
1957

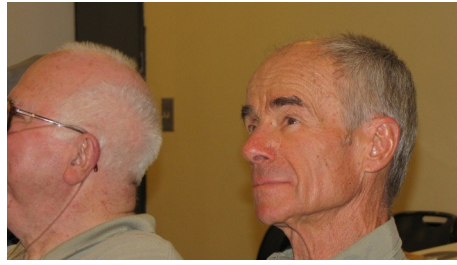
"Good Men With Good Lines to Serve You Better"

SUGGESTED
RADIO TUBE
PRICE LIST

Photos from May 20th Meeting at the Philip Miller Library in Castle Rock



Mike Cook fills in for
Pres. & V.P who are MIA's



New member
Gregory Malanowski



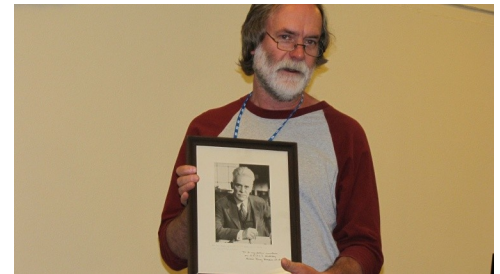
New member Allan Jahnke



Yuri Yedidovich shows off
His Emerson clock radio



Larry Weide with Denver Post
Sept 1929 Radio Ad



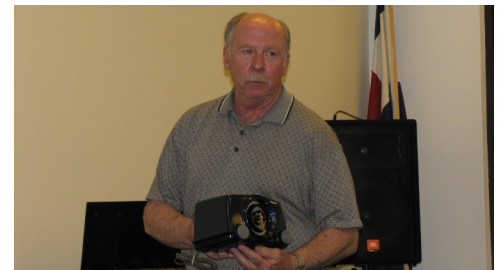
Robert Baumann with picture of
Hiram Percy Maxim



Ed Harris with Philco Ad



Bill Grimm with
1957 Tube Price list



Merrell Campbell with Crosley 11-101U



Tom Pouilot with Atwater Kent
Model 10 breadboard radio



Bill Dial with 1925 Priest radio



Barney Wooters with Emerson
Mult Valve tube 1926



Tom Pouilot auctioning off
members' goodies



Some of Yuri's beautiful clocks



Interior of Bill Dial's radio



The Open Trunk

Member submitted advertisements



WANTED: Buy/Sell/Trade: "Heavy Metal" communications gear, telegraph related items, vintage calculators & micro-phones.

Robert Baumann, 303-988-2089
HQ180A@aol.com. (07/09)

REPAIR SERVICE:

Radio repairs for club members. Reasonable rates. Good references.

Call David Boyle
303-681-3258 11/09

For Sale: by Dave Boyle

All of the following older but "classic" radio and TV repair instruments have been expertly refurbished, repaired, and calibrated as appropriate.

All Instruments come with test leads, as required and most have manuals. Prices might be negotiable.

- 1) EICO model 235 Professional VTVM with test leads and probe. \$65.00
 - 2) EICO model 950B resistance and capacitance bridge, also checks capacitors for typical failure mode tests for old radio repair. \$60.00
 - 3) EICO model 425; 5 inch oscilloscope, rebuilt with all new caps, including HV caps. All other offending parts replaced! Includes NEW CRT tube. With Manual. \$70.00
 - 4) EICO model 324 RF signal generator 5 bands plus audio oscillator, with leads and manual. \$32.00
 - 5) RCA Technical Institute RF signal generator, similar to EICO, above listing. \$23.00
 - 6) Heathkit model IG-52 TV and FM alignment and signal generator. Perfect for older FM and TV repair. With leads and manual. \$45.00
 - 7) HP model 204C oscillator. 1 Hz. to 1 MHz. A very professional instrument, solid state, like new. Perfect for general purpose audio and RF frequency generation and for Audiophiles for amplifier testing. \$95.00
- Call**
David Boyle, 303-681-3258 7/12

Wanted

Knight KG-2000 Manual (copy okay)
Robert Schineller 303-682-1949
Schineller@comcast.net

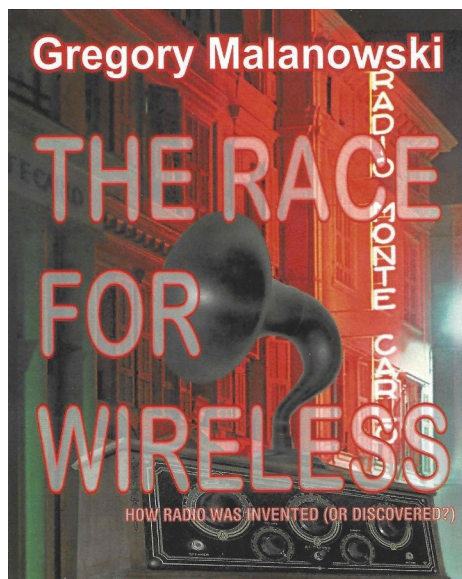
Many old Tubes for Sale

Try me before you order over the internet and save shipping.

01A, 24A, 27, 35/5, 47, 71A, 80 and many others. All tested on my Hickok TV-7/DU tester.

Mike Cook 303-471-9596

Check out the book written by our new member, Greg Malanowski.



Custom Embroidered CRC LOGO on Shirts and Hats

Only \$5.00 + Tax per Garment

- Choose the LOGO size - up to 3" high
- Choose the colors, up to four
- Include your name under the LOGO - a \$1 option
- Provide your own garment, or...
- Choose from a wide selection in a catalog; www.imprintswholesale.com

For orders, catalog prices and further info contact the seamstress directly.

Judy Houser
(303) 771-3577
Highlands Ranch, Colorado

The Race for Wireless

How radio was invented (or discovered?)

By Gregory Malanowski

The book is not only a history of development of wireless communication, or the radio, as it was later named. It also presents portraits of fascinating visionaries, experimenters and scientists and the stories of their successes and failures.

The history begins as a race between inventors, but later becomes a race chiefly between corporations. Even today, there are a great number of contradictory opinions and common beliefs regarding the fatherhood of the wireless. At the end of the 19th and the beginning of the 20th centuries, the exchange of information was slow and unreliable. Many talented individuals worked concurrently in different parts of the world, trying to develop the same wireless apparatus and not knowing that they already had competitors. Sometimes, inflated egos undermined their success. Some of the inventors lacked integrity. Legal battles ensued. So, who was the first at the finish line?

To determine who was the winner of the race for wireless, or who can be named the "father of the wireless", substantial amounts of historical and political background as well as a thorough analysis of inventions are included in this book. The story is based on published memoirs and papers, encyclopedias, and countless historical and technical materials in the public domain. In many cases it was necessary to filter out the emotional biases (of traditional or national origin) of the source material and to seek the correct chronology of discoveries. The author uses published patents - their dates of issue, technical claims and drawings - as the ultimate source of judgment.

In the appendix, "The Vacuum Tube Sound", the author compares the quality of sound amplified by a vacuum tube amplifier with the quality of sound amplified by modern semiconductor amplifiers. What are the differences, if any? The answer may surprise you.

Available now from AuthorHouse
www.authorhouse.com
Order this title through your local bookseller
or preferred on-line retailer.
978-1-4634-3750-3 (SC ISBN)

SUBMISSION OF ARTICLES AND ADVERTISEMENTS

Classified Ads for The Open Trunk and articles of any radio/electronic or historical related subject to be published in the Flash are encouraged and welcomed. The article (s) should be submitted in Microsoft Word, RTF, or as text cut/paste into your email. Submit to Steve Touzalin by email at: stevetou@comcast.net or by postal mail to 417 So. Queen Circle, Lakewood CO 80226.

Formatting isn't necessary, but if you do, set the font to Times New Roman, size 10, left justified. If you have graphics (.jpg files) to be inserted, please name them and be specific about how you would like them placed. We will do our best based on space limitations.

Directions

From I-25: Take the Plum Creek Parkway, exit #181

Turn East onto Plum Creek Parkway.

Turn Left (North) onto S. Wilcox Street and continue north 2 tenths of a mile.

The Philip S. Miller Library is on the east side of the street at 100 S. Wilcox St.

The building is towards the back of the parking lot, past the Dairy Queen.

Special Topic for July's meeting

Plastic Radio Repair

Merrell Campbell will give a
Demonstration of this black art



Colorado Radio Collectors
Antique Radio Club
417 S. Queen Cir.
Lakewood CO 80226

FIRST CLASS MAIL

THE CRC 2012 SHOW AND CONTEST DVD VIDEO IS READY FOR YOUR ENJOYMENT!

Every entry in the show is shown - See the presentations to the major award winners

- * You can order a copy for \$5.00, delivered to you at a meeting
- * You can order (**prepaid**) a copy by mail for \$7.00, to cover the cost of packaging and postage
- * Orders should be given to Larry Weide or Rich Kuberski at the July 8th meeting or by email to Larry at

lweide@msn.com