

# The C. R. C.

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

Volume 3

November - December 1992

Issue 6

## John Austin Victoreen

By John Grist, Senior

(Assistant To Dr. Victoreen In His Colorado Springs Laboratory)

John Victoreen was one of those select people brought into this world seemingly prepared beforehand to do the job history required of him. Born in Johnstown, Pennsylvania, on Independence Day in 1902, it was the early radio hobbyists of Cleveland, Ohio, who guided the young scientific research mind onto the path his life was to follow. As an eighteen year old amateur radio operator, he was expert enough to set up his CW equipment in a Cleveland bank to receive and post the election returns for the crowds in the street, who elected Harding as the President of the United States.

Victoreen's parents were achievers and out of families of achievers. His father, E. Vitalis, of Scandinavian descent, was the mechanical engineer who installed Philadelphia's largest steam pump for the Water Works. His mother, of the German "Austain" family, was the niece of Nathaniel Austin, for whom the Texas city was named, and a relative of George Rogers Clark, American soldier and frontiersman.

It's surprising his formally educated family didn't resist their sixteen year old son's determination to quit the tenth grade at Cleveland's East Technical High School, in order that he'd have time to work with his radio research and manufacturing. Instead, they supported his efforts as he manufactured such things as code keys, 24-volt storage batteries, and coils. It was the improvement of selectivity of broadcast stations on the home radio receiver in the Victory Radio that firmly established Victoreen at the forefront as manufacturer/scientist of radio/electrical

(Continued on page thirteen)

**FIRST  
AUCTION  
HUGE  
SUCCESS!**

Details On Page Four!

Official Journal of the  
**Colorado Radio  
Collectors**

Founded October 1988

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

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and  
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rather to "Larry Weide, CRC Treasurer")

**DEADLINE NOTES**

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

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

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

**Deadlines:** (Editor to receive)

December 15 • February 15 • April 15  
June 15 • August 15 • October 15

**MEETING LOCATION**

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

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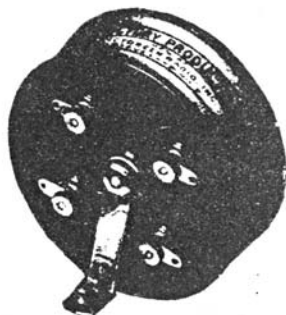
Rick Ammon 224 • 5446 Ft. Collins

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# The Heart of the Circuit

## VICTOREEN Transformers and VICTOREEN Master Control Unit



Victoreen No. 170 R. F. Transformer—standard and compact—3 in. in diameter, 1 in. thick.

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are made with air-core construction. They are not merely "matched," but are actually tuned to a guaranteed precision of 1/2 of 1%.

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The "B" battery consumption is exceptionally low—8 to 10 milliamperes with potentiometer at negative side—less than some J tube sets.

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### The Heart of the Circuit

- |  |        |
|--|--------|
| 4 Victoreen No. 170 R. F. Transformers, each.....                  | \$7.00 |
| No. 171 Transformers when 275 cells are used.....                  |        |
| 1 Victoreen No. 150 Coupling Unit, each.....                       | 5.50   |
| Should the use of aerial be transferred to loop, Victoreen No. 160 |        |
| Antenna coupler is required, each.....                             | 1.50   |
| 1—100 ohm Victoreen Potentiometer.....                             | 1.50   |
| 2—6 ohm Victoreen Rheostats, each.....                             | 1.20   |
| 2—10 ohm Victoreen Rheostats, each.....                            | 1.20   |
| 1—Type V. S. Master Control Unit.....                              | 19.50  |

Get a complete list of necessary parts from your dealer or write us direct. Your dealer will be able to handle all parts. The three Victoreen folders and book-up answers all questions at the Victoreen circuit.



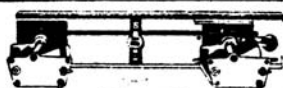
### Victoreen Manganin Rheostats

The only Rheostat with zero temperature coefficient—no matter how warm the unit becomes the resistance remains absolutely constant. Victoreen Rheostats have double the number of turns of wire used on ordinary Rheostats—that means twice as fine adjustment.

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### Victoreen Master Control Unit

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Easy to mount and can be used on any layout without changing the wiring. Standard unit has 2 condensers. One or two more can be added, or it can be rearranged by the user to suit his requirements.

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Tell 'Em You Saw It in the Citizens Radio Call Book

Citizens Radio Call Book ♦ September 1926

# AUCTION SUCCESS!!

By Rick Ammon, CRC Editor

Over a hundred and seventy-five interested persons attended the first Annual CRC auction. There were "piles and piles of radios" new and old. Selections of battery TRFs to transistor novelties to early 30s consoles were available. As seen from the listing below, prices were very reasonable, and, at times, kind of crazy...piles of radios for literally quarters each! A couple of boxes of odds and ends from the old Rocky Mountain Wireless Association were brought out of mothballs and sold, to include a 1970s calendar, listing names of members from the era. (A bunch of them are still active in the CRC today!)

A surprise to all was the vast amounts of equipment that showed up in the parking lot behind the Southwest Bank. For the first CRC auction, it was a pleasant acknowledgment of the support by the members and non-members alike. For those who could not attend, the pictures on pages ten and eleven might give an idea as to the quantity and quality of the offerings.

The listing below, recorded by CRC Treasurer Larry Weide, does not indicate any current value of the equipment, but, rather, it's printed to, at least, provide a reference toward assessing a value and to show the final bids of the equipment offered at the auction. A complete listing with properly associated "condition" does not exist, but equipment shown here was generally in average to excellent condition. Many items were not registered with model numbers. I've included some dates.

Several items did not sell due to "Buy-Backs": Philco 640 Tombstone (1936), Pepsi Bottle Radio (not transistor), Grimes BG, Crosley 75, and an Airline Plastic.

Silver Marshal Model 720 SG6		Assorted "Piles" of Plastic Radios	
Battery Set (1928)	10.00	(No transistors)	\$5.00 to 45.00
Philco 220	20.00	Stewart Warner Plastic	85.00
Hickok 800 Tube Tester	15.00	King Hinners 5-tube	
Zenith Tomb. 5S127 (1936)	110.00	Battery Set (1925)	75.00
Philco Chairside	15.00	Zenith 9H081 Console (1946)	22.50
Hallicrafters 5R40	20.00	Pilot FM Tuner (1947)	20.00
Philco/2 46-350 (1946)	20.00	Assorted Tubes in cartons	
Zenith TransOceanic		(2 lots 1930-40s)	35.00/45.00
Model G500 (1950)	27.50	Music Master Model 100	
Zenith TransOceanic		Battery Set (1925)	55.00
Model H500 (1951)	22.50	Philco 4F-221 (1941)	10.00
Asst. Plastics (no transistors)	10.00	Assorted (8 or 9) Transistor	
Hallicrafters S40A	40.00	Novelty Sets	10.00
Philco Cathedral 50 (1931)	95.00	Stewart Warner Model 305	
Atwater Kent Model 20		Battery Set (1925)	65.00
Battery Set (1924)	110.00	Crosley 11-108U (1952)	25.00
Zenith Tomb. 5R135 (1937)	65.00	Zenith Table 6S532 (1941)	35.00
Atwater Kent Model 89		Firestone Table S74268	45.00
Lowboy (1931)	30.00	Atwater Kent Model 32	
HeathKit SG8 Signal Generator	20.00	Battery Set (1926)	10.00
Kolster Table (1928)		Philco 60 (1933)	85.00
(Excellent condition)	100.00	Grebe MU1 Syncrophase	
Stromberg Carlson Console	40.00	Battery Set (Chains - 1925)	150.00
Eico 221 VTVM	5.00	Zenith Console	115.00
Everyready M3		RCA Radiola Model 100	
Battery Set (1928)	30.00	Cone Speaker (1926)	20.00
Sylvania Metal	20.00	Tube Caddy with assorted	
Arvin Metal	40.00	boxed tubes	35.00
Lyric Console (1929)	90.00	Atwater Kent Model 35 Metal	
RCA BT6-5 Battery Set (1935)	30.00	Battery Set (1926)	80.00

# ON THE AIR

## Dick Hagrman, C. R. C. President

The auction we held in September was successful beyond our wildest dreams. We saw 146 lots go on the block, which produced gross revenues of over three thousand dollars, of which ten percent was retained by the club. My thanks to all of you who participated. We received many favorable comments, and, for the most part, our first annual auction was a major event for our group.

Larry Weide is generating some new software which will speed up the pay-up/pay-out process where we experienced some slowdown after the auction.

Again thanks and a tip of the hat to all who participated. Not bad for our first time at bat. So now we look forward to the second annual radio auction which will be held in the Fall of 1993.

Several new and old business items are on the agenda for the November meeting and Jerry Tynan will be providing us with a presentation on repair and painting of plastics. I suspect that we all have a plastic radio or two that could use some cosmetic surgery.

I hope to see all of you at our next meeting on November 8 and don't forget to vote on November 3. — Dick —

### FLASH FEATURES

John Austin Victoreen.....	1
CRC Auction.....	4
Collector or Accumulator?.....	8
Special For Sale Page.....	9
New Scott Collectors Club.....	12
Gardner Band at Rainbow Ballroom.....	16

### REGULAR FEATURES

On The Air (From our President).....	5
A Date with Radio.....	6
Radio Parts n' Pieces.....	17
Want/4Sale Ads.....	19

### REGULAR NOTICES

Deadline Dates.....	2
Dues Information.....	2
General Mailing Address.....	2
Meeting Location.....	2
Contributors.....	6
Membership Notice.....	7

## VICTOREEN SUPER-HETERODYNE SUPREME

This wonderful set has proved its great worth during the past season. Thousands of owners are Victoreen Boosters.

Unlimited range, tone perfect, greatest possible selectivity, terrific power, can be used either for loop reception or on antenna and ground, change can be made instantly by simply inserting plug in double circuit jack.

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List of parts to complete this unequalled set, for the most satisfactory results, as follows:

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| —No. 150 Victoreen Oscillator                | 1—1 mfd. Muter By Pass Condenser                                       |
| —No. 160 Victoreen Antenna Coupler           | 2—No. 4 Vaxley Double Circuit Jacks                                    |
| —No. 170 Victoreen Input Transformer         | 1—No. 5 Vaxley Single Circuit Jacks                                    |
| —No. 170 Victoreen Intermediate Transformers | 75—Timed Soldering Lugs  |
| 2—Victoreen Rheostats, 50 ohm                | 8—Benjamin No. 7640 "Universal" Sockets                                |
| 2—Victoreen Rheostats, 5 ohm                 | 2—No. 591 Kerr Knock Variable Port Dial                                |
| 1—Victoreen Potentiometer, 500 ohm           | 2—1000 Mamestrand Variable S. L. F. Condensers (1st, 2nd, "C" Battery) |
| 1—No. 10 Vaxley "A" Battery Switch           | 2—1 to 1 Transformer Audio Transformer                                 |
| —1 1/2 in. Head Rubber Foot                  | 1—No. 600 Vaxley 7 lead Cable Connector Plug                           |
| 2—00023 Muter Fixed Condensers with clips    | 12—Langite Celestite Bus Wires, any color                              |
| 2—1/2 inch Motor Grid Leaks                  | 1—1/2 in. Binding Post Strip   |
| 1—601 Muter Fixed Condenser                  | 1—3 in. Binding Post Strip   |
|  | 1—94123 in. Resistor   |
|  | 1—Working Blue Print, full size  |

Any one who can solder a joint and read a blue print can make this perfect Superheterodyne, without the services of an expert, as all the laboratory work has been done at the factory and the best skill and the greatest care is taken to place perfect instruments in your hands.

Write us for prices on parts for the famous "Condition" Receiver

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| Fast Lamps                    | Comminchem 7 tubes         |
| Victoreen Lamps               | Comminchem Grid Leaks      |
| Vaxley Mfg. Co.               | Steel Lead Solder          |
| Victoreen Leaks and Rheostats | Bronze Tolly Mfg. Co.      |
| Victoreen Mfg. Co.            | Kerr Knock Co.             |
| Luella F. Muter Co.           | Dynamath Chargers          |
| Winnand Radio Corp.           | Starling Mfg. Co.          |
| Victoreen Electric Mfg. Co.   | Wetzel Storage Batteries   |
| Acme Laboratories             | Diamond "B" Batteries      |
| V. L. Radio Laboratories      | Transformer Sales Co.      |

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# A Date With Radio

By Rick Ammon

NOVEMBER

DECEMBER

<2> The American people heard their first national election returns on this day in 1920. KDKA, a pioneer station in Pittsburgh, PA, broadcast results of the Harding-Cox presidential contest.

<3> Walter Winchell, famous for his "Good evening, Mr. and Mrs. North America and all ships at sea..." broadcasts, launched his career on the mike this day in 1931.

<4> On this day in 1928, a radio station in Philadelphia conducted a spelling bee over the air. ("Potatoe" might have been correct back then! Editor)

<5> Two sister stations in Evansville, Indiana, WIKY AM/FM, joined in broadcasting simultaneously a program in stereophonic sound in 1958. Listeners with both AM and FM receivers placed their sets twelve feet apart to get the best effect. WIKY FM then became the third station in the nation to use multiplexing.

<7> In 1922, the first wedding ceremony on radio was broadcast by KDKA in Pittsburgh today.

<8> On this day in 1934, the *Kraft Music Hall* began its long, long run on radio.

<9> Franklin D. Roosevelt, on this day in 1932, made his first radio "fireside chat". As President-elect, he thanked the electorate for putting him in the White House.

<11> Today in 1935, a national radio network kept its listeners in constant touch with two men who climbed

(Continued on page fifteen)

<4> The *Voice Of Firestone* program began on radio on this date in 1928.

<5> Bing Crosby made his radio debut on this date in 1935.

<6> The first presidential message heard over radio was delivered this day in 1923 when Calvin Coolidge addressed a joint session of Congress.

<7> This day will live in infamy! In 1941, news flashed by radio that Japan had deliberately attacked Pearl Harbor at the cost of thousands of lives.

<8> Congress declared war on the Japanese in response to President Roosevelt's urgent request. Both events above were broadcast worldwide on the largest hookup of radio stations to that time.

<9> The first advertising contract for FM air-time was signed on this date in 1940. A watch manufacturer agreed to sponsor time signals for 26 weeks on that pioneer New York station.

<10> Dr. Frank Conrad, early radio broadcaster, died on this date in 1941. His experiments with amateur wireless station 8XK led to the establishment of the pioneer commercial radio station KDKA, Pittsburgh.

<11> On this date in 1936, David Windsor, private citizen, broadcast his farewell address to the British people after renouncing the throne as King Edward VIII. A woman he loved was the basis of the controversy.

(Continued on page sixteen)

## Next Issue's Features

How To Buy An Ak12 For \$2.50!

Boulevard Radio Manufacturing Co.

YOUR ARTICLE!

The Jackson Bell Midget

## Thanks, Contributors!

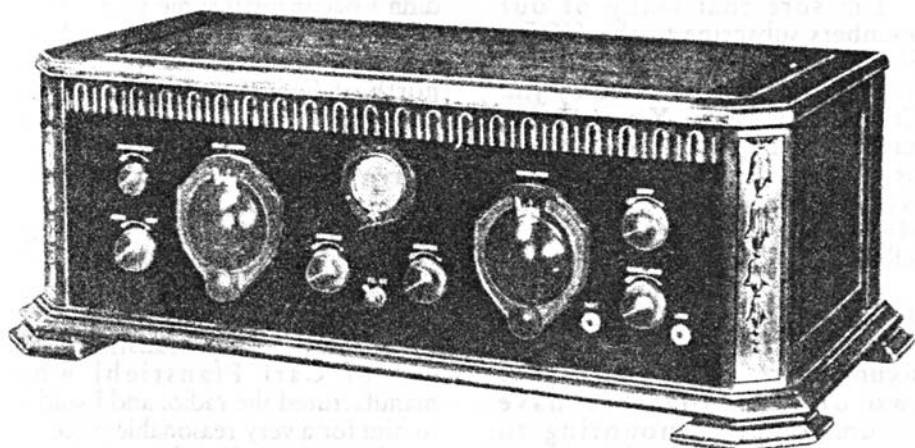
John Grist Erwin Dosch

Riggs Smith

Hal Burt Gilferd Baker

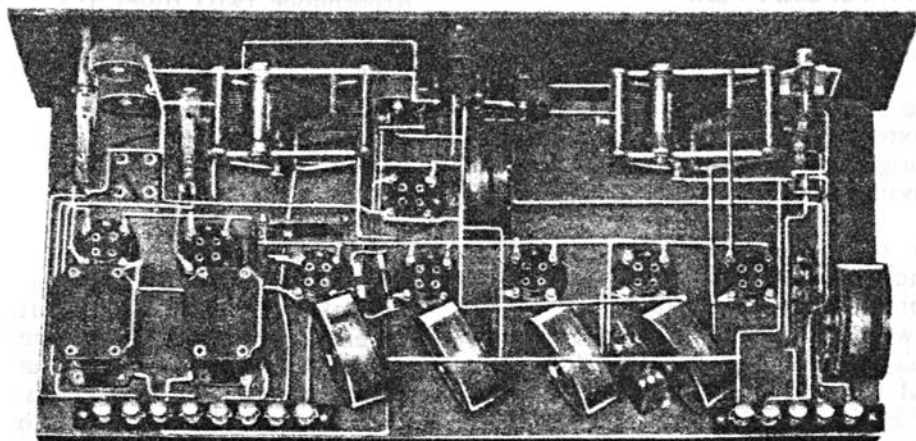
Dick Hagrman Larry Weide

# VICTOREEN SUPER-HETERODYNE



*Front View of Receiver Mounted in Cabinet*

*Citizens Radio Call Book* ♦ September 1926



*Rear View of Receiver After Wiring Has Been Completed*



## MEMBERSHIP NOTICE



The month/year next to your address on the back cover is your membership expiration date. Where appropriate, please renew at this meeting or see the inside front cover of this journal.

# COLLECTOR OR ACCUMULATOR?

By Hal Burt

AWA, ARCA, CRC

I'm sure that many of our members subscribe to the *HORN SPEAKER*, a monthly publication for radio collectors, edited by Jim Cranshaw of Texas. You probably have seen the articles in a recent issue, under the heading "Collector News"; one from a chap in Michigan and another from a fellow in California.

Both of the articles were a little disturbing to me since, in my judgement, they were written by accumulators, not collectors. The two of them together have accumulations amounting to between one hundred and two hundred old radios. And not one of them has been refinished, refurbished, or restored. The owners do not know if any of them work or don't work.

As I define a collector, he or she is a person who has a deep interest in seeing that old radios are restored to operating condition and, to the extent possible, returned to their original shape. Tubes and parts are available, with a little digging.

I don't intend to set myself up as an example, but let me tell you how my interest developed. My brother and I built our first radio (with parts bought from Powel Crosley, Jr.) in 1924. A couple of years later, we were given a ZENITH 1R,M, by a friend who had just bought an electric radio. I'm sorry to say that in the '30's, this one was cannibalized to build two code-practice sets, a short-wave regenerative receiver, and a transmitter.

I got my first 'ham' license before World War II. I worked in a radio shop for a few years, then in

the wholesale radio and parts business, followed by broadcast engineering, and commercial transmitter installation.

My interest in radio continued unabated after that, but the opportunity to get into "old" radios didn't occur until some years later, when I found a Pfanstiehl 7 in the basement of a second-hand store north of Chicago. It was a mess: no tubes, broken sockets, open audios, rust throughout, as well as a sorry cabinet. I spent about a year doing all that was needed to put it in first-class shape; then I picked up stations from New York to Los Angeles. I would still have it, except for one reason: I was contacted by Cody Pfanstiehl, the son of Carl Pfanstiehl who manufactured the radio, and I sold it to him for a very reasonable price.

Since then, I've been able to acquire and restore some others:

Atwater Kent 10, three Atwater Kent 20's, Audiola 7330, Bremer-Tully Counterphase 6, Arborphone, two Crosley 51's, three Crosley Trirdynes, Crosley 4-29, Echophone model A, Freed-Eisman FE-15, Kolster 6D, McMillan 6, RCA-Victor 7-10 (a battery radio console with a wind-up phonograph), Radiola AR-812, Radiola 28, Victoreen TRF (built from a kit), and several horn and cone speakers.

I'd like to believe that our members are collectors rather than accumulators, and are interested in actually preserving working radios. The challenge makes them fun to 'revive'. If I can give any tips, suggestions, or help to anyone in this field, I'll be glad to do so. I do it for the fun, not the money.

-30-

(CRC member Hal Burt can be reached by writing 5306 South Broadway Circle, Englewood, CO 80110. Editor)



# **FOR SALE**

(PAID ADVERTISEMENT)

## **Antique Radios And Test Equipment Make Offers:**

RCA (Mfg. By GE) Crystal Set, Model AR1300, Circa 1910, Mint  
Stewart Warner Model 385, Battery-Operated Radio, TRF, Mint  
RCA Radiola 18 Receiver, with Speaker, Line-Operated, Mint  
Atwater Kent Model 42 Receiver, Line-Operated, with Model L  
"Trumpet Horn", Mint

Zenith Model 5B07, AC/Battery, Portable, Excellent Cloth/Wood Case

Meissner Band-Master Receiver, General Coverage To 30 MHz

Meissner AM/FM Receiver (Old FM Band 30-50 MHz)

Stromberg Carlson Model 524 (BC1206), 200 - 400 KHz, WWII

Philco 48-2500 Projection Television, Operational, 1948 Model  
with Sams PhotoFact

A.R.C. Aircraft Transmitters, Model T13A (Two Available)

A.R.C.-5 Aircraft Receiver, 190-550 KHz, Unmodified, with  
Dynamotor, Mint

LM Frequency Meter (BC-221), Mfd 1935 By Radio Research

Megger, Hitachi Model EN-12, Pre-WWII

Cornell-Dubilier Capacitor Analyzer, Model BF

Clough-Bringle Audio Beat-Frequency-Oscillator, Model 79C

Clough-Bringle RF Oscillator, Model 110

General Electric Wire Recorder, Model 20N, WWII Military

General Radio String Oscillograph, Model 338, with Original  
Instructions, Circa 1920

Dumont 175A Oscilloscope, Pre-WWII

Klett-Summerson Colorimeter, Pre-WWII

### **Erwin L. Dosch**

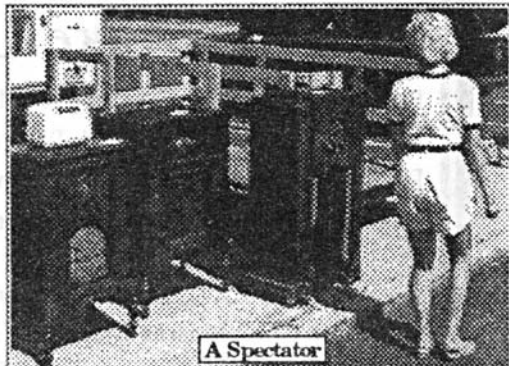
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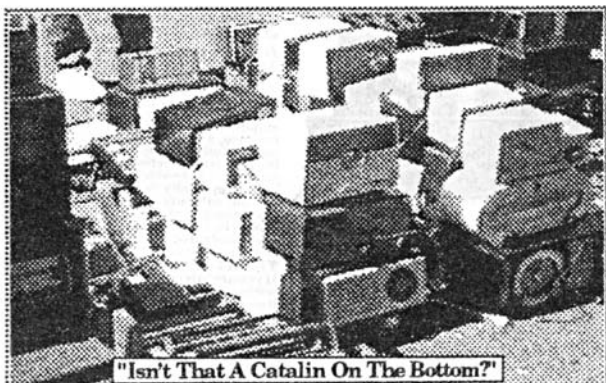
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# PREMIER ANNUAL STUPENDOUS



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Oliver Marshall, The First in Sale... Lee Bruton and others Help Our Auctioneer



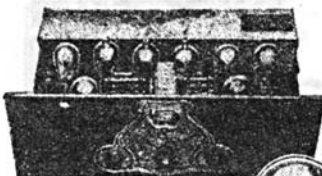
# The champion that can't find a challenger!

CUSTOM BUILT

Radio News ♦ 1930

## SCOTT *World's Record* RADIO

Dare after dare, published through the Nation's press has invited receiver manufacturers to equal the verified World's records held by Scott Custom-Built Radio and to meet this receiver in open competition of any kind. That not a single answer has been forthcoming is significant. The Scott record of 117 programs 6000 to 8000 miles distant received over a period of 15 weeks still stands—and the Scott World's Record Custom-Built A-C Screen Grid 10 is still champion, just as its designer and the laboratory workers who hand-built it intend that it shall always be. The claims made for this laboratory product are readily substantiated by demonstration.



E. H. SCOTT

### Send TODAY for BROCHURE

The two units of The Scott A-C Shield Grid 10; namely, the receiver and the power pack containing the finest amplifier possible to produce, are illustrated and fully described in a beautiful brochure sent free. Likewise, a line of specially built console cabinets finer than any heretofore shown in the industry are illustrated. Send coupon at once.

**TERRITORY OPEN**  
If you are interested in selling Scott Custom-Built Radio in a protected market, indicate on the coupon below.

**SCOTT TRANSFORMER CO., 4450 Ravenswood Ave., Chicago, Illinois**

### —Clip and Mail NOW!—

SCOTT TRANSFORMER CO.  
4450 Ravenswood Ave., Chicago, Ill.

- Send me illustrated brochure.  
 Send me franchise dealer's proposition.

NAME .....  
ADDRESS .....  
CITY ..... STATE .....

*A letter from Jim Clark was recently received at the Flash office asking that we broadcast information about a new organization (we were asked NOT to call it a "club"). So, with all due respect, I present the following NEWS RELEASE:*

## E. H. SCOTT HISTORICAL SOCIETY

The E. H. Scott Historical Society (EHSHS), a non-profit tax exempt corporation, was founded January 27, 1922, and is dedicated to the preservation of the history and radios of the E. H. Scott Radio Laboratories (formerly the Scott Transformer Company), which existed in Chicago, Illinois from 1925 - 1953.

The primary goals of the EHSHS are: (1) the education of the public in regard to the history of this company and E. H. Scott; (2) to provide a form for the

documentation and preservation of E. H. Scott radios; (3) to develop a collection of E. H. Scott radios, memorabilia and related items, based primarily upon donations, for public display and education; (4) to develop an institution devoted to the procurement, care, study, and public display of such a collection.

We are now accepting memberships and donations and want to encourage anyone with an interest in E. H. Scott and/or his radios to join EHSHS. As a EHSHS member you will also receive our quarterly newsletter, the SCOTT NEWS. Each issue will include articles of interest to E. H. Scott collectors, including repair and restoration hints, as well as historical articles and more. Membership to the EHSHS is only \$20/year, prorated to the time of the year you join. All memberships expire on the last day of each year. To receive a membership application, to make a donation, or for further information, write: E. H. Scott historical Society, Inc., P.O. Box 1070, Niceville, Florida 32588-1070.

We thank all of you for your interest and support.

# Victoreen (from front cover)

equipment, at just nineteen years of age, without benefit of formal education.

Victoreen was an engineer, or perhaps a physicist, or maybe a manufacturer or industrialist. In his teen years in Cleveland, he enjoyed the company of a group of broadcast listening (BCL) hobbyists, and through amateur radio became fascinated with making parts kits for radio construction.

While still a teenager he designed one of the first high-fidelity stereo amplifier systems used in early sound theaters. By 1925, when the New York Times editorialized Victoreen's superheterodyne receiver as superb, he had already become interested in the work of a friend of the family, Dr. Hugo Fricke, an early pioneer of X-rays. With Dr. Fricke, and later with Dr. Otto Glasser, before the Roentgen became the international standard by which radiation could be measured, he began the development of instruments small enough to be practical in the field for measuring radiation as applied to a person.

Dr. Lauriston Taylor, former President of the National Council on Radiation Protection (NCRP), in his series "Vignettes of Early Radiation Workers", stated the country, as a whole, was in Victoreen's debt, because of his basic contributions to the science of radiation absorption and its applications in dosimetry instrumentation. The radio manufacturing company was founded in 1921, while the Victoreen Instrument Company was established in 1925, when he was only 23 years old! The X-ray dosimeters he produced then were, and still are, the standard of cancer dosage measurement. During the following years he developed the mathematics for the absorption of radiation for various elements, and published the tables of absorption coefficients. These tables are still in use by industry today.

The General Electric Corporation was a prime manufacturer of X-ray

equipment during those early years, and was therefore one of the primary customers for Victoreen's X-ray dosage meters. During his years of close association with GE, he developed a variety of products for their use, ranging from a precision temperature regulating device for automatic processing of X-ray film, to ionization chambers, and Geiger counters used in precision cutting of quartz crystals utilized in communications. He developed an early model electronic stethoscope for hard of hearing medical doctors.

It was only natural that the Victoreen Instrument Company would be among the first of 114 prime contractors on the Manhattan (first atomic bomb) Project. His company supplied radiation monitoring instruments and fulfilled a contract to design a control fuse for the bomb itself. His company's Geiger tube, the well known 1B85, was in nearly all uranium prospecting gear at that time.

After the end of the secret contracts and WW II, Victoreen designed and produced over ninety percent of the radiological instrumentation for the Bikini and Eneweitok atom bomb tests. It was in 1948 that the John Carroll University of Cleveland, Ohio, awarded John A. Victoreen an honorary L.L.D. degree for his research and contributions to the nation's efforts during WW II.

After retiring in 1950, at age 48, from the industrial complex he had created, he soon had his own laboratory again, this time in Colorado Springs, Colorado, and was hard at work designing instruments for isotope laboratories in two local hospitals. The altitude and climate of Colorado Springs ultimately interfered with his research, so that in 1962 John Victoreen relocated his laboratory to Maitland, Florida, a suburb of Orlando.

His research continued, but this time in the field of hearing, hearing tests and measurement equipment, and precision hearing aids. The hearing impairment of a medical

(continued on page fifteen)

## COMPLETE PARTS FOR VICTOREEN

(Taken from the Chicago Salvage Stock Store Radio Catalogue number 14 circa Spring 1927)

THIS super-heterodyne circuit incorporating Victoreen transformers is generally considered by most radio engineers as well as the radio public as the most efficient, intensive and selective radio set of today. A superior receiver will appear only when an entirely radical achievement is made in the science of radio.

### LIST OF PARTS

(Same as specified in Sept., 1926 issue of Citizens Radio Call Book)

1—7x24x $\frac{1}{8}$ " Drilled and Engraved Formica Panel; 1— $\frac{1}{4}$ x4 $\frac{1}{2}$ x $\frac{1}{8}$ " Terminal Strip; 1— $\frac{3}{8}$ x7 $\frac{1}{2}$ x $\frac{1}{8}$ " Terminal Strip; 13—XL Push Binding Posts; 1—10x23x $\frac{3}{4}$ " Wooden Baseboard; 2—Karas Orthometric .0005 mfd. Variable Condensers; 1—Jewell No. 140 Double Scale Meter 0-7.5 and 0-150 Volts; 1—Yaxley No. 3 Filament Control Jack; 1—Yaxley No. 2A Two Circuit Jack; 1—Yaxley No. 10 Midget Battery Switch; 1—Yaxley No. 80 Jack Switch; 1—Yaxley 25-ohm Adjustable Resistance; 1—Yaxley 4-ohm Fixed Resistance; 1—Yaxley 2-ohm Fixed Resistance; 2—Electrad .00025 mfd. Grid Condensers; 2—Electrad 2-megohm Grid Leaks; 1—

Electrad 1 mfd. By-Pass Condenser; 1—Hammarlund .00045 mfd. Midget Condenser; 1—AmerTran De Luxe 1st Stage Audio Transformer; 1—AmerTran De Luxe 2nd Stage Audio Transformer; 1—Electrad .001 mfd. Fixed Condenser; 1—Victoreen Manganin No. 6—6-ohm Rheostat; 1—Victoreen Manganin No. 30—30-ohm Rheostat; 1—Victoreen Manganin No. 400—400-ohm Potentiometer; 4—Victoreen No. 170 Radio Frequency Transformers; 1—Victoreen No. 150 Oscillator Coil; 1—Victoreen No. 160 Antenna Coupler; 8—NaAld Bakelite UX Sockets; 2—Kurz-Kasch Aristocrat Vernier Dials; 10—Dozen Kellogg Tinned Soldering Lugs; 1—Package Kester Radio Solder; 2—Dozen No. 5x $\frac{1}{4}$ " Round Head Wood Screws; 3—Dozen No. 5x $\frac{1}{4}$ " Round Head Wood Screws; 50—Feet Belden Tinned Copper Hookup Wire; 1—Blue Print.

14-105. Complete parts including blueprints to build Victoreen Super as specified above.....

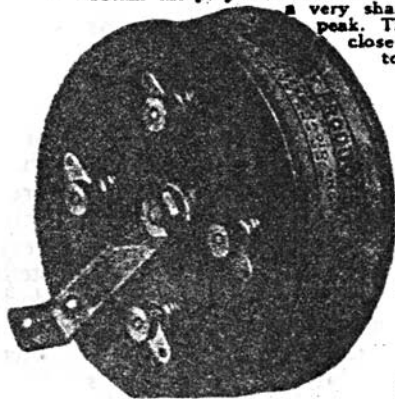
14-105B. Blueprint for above.....

**\$78<sup>50</sup>**

**95c**

## VICTOREEN R. F. TRANSFORMER

THIS unit has a 2" diameter air core, permitting a minimum of wire to be used to obtain the proper inductance. The result is a very sharp curve or peak. The field is in close proximity to the coil, practically eliminating feed back.



14-2655A. Victoreen #170 Trans.

**\$6.25**

14-2655B. Victoreen #160 Ant. Coupler

**\$3.15**

14-2655C. Victoreen #150 Oac. Coupler

**\$4.75**

## WHY VICTOREEN SUPERHETERODYNES?

You could not purchase one off the shelf! Victoreens were provided in knockdowns (kits) only and the reason for this practice was simple. There was less risk of being sued by powerful patent-holders by the likes of the Radio Corporation of America. In the early and mid-twenties, patents protected the superhet manufacturers in the RCA alliance, while allowing anti-trusts, which would not be addressed until the end of that decade. Victoreen was able to avoid the inevitable lawsuit until the late twenties, making a quick exit when RCA came knocking. He took a small buyout and invested it into other interests which were lucrative in the next decades, never to re-enter the radio business again.

What made his sets different were the well-built R.F. coils, accomplishing finer tuning and better selectivity between stations. The tedious and expensive matching (tube and circuit considerations) processes and oscillation suppressing methods were eliminated, due to the excellent design of the intermediate frequency transformers. No iron core was used so the amplification-constant curve was peaked sharply at 88,000 cycles/Hz. Very optimum for that time. All of this helped to eliminate harmonics.

From the schematic found on page eighteen, you notice the oscillator, first and second detectors, I.F. amplifiers, and two stages of audio amplifiers arranged for the use of a power tube in the last stage. A choice of loop or antenna and ground can be switched. The cabinet on page seven was manufactured by D. H. Fritts of Chicago.

When it comes to "homebrews", anyone would be proud to own a Victoreen! *Editor*

## Victoreen (from page 13)

doctor on the staff of one of the hospitals in Colorado Springs inspired Victoreen to investigate precisely defined amplification in deficient hearing. After design of several generations of signal generators, earphones, sound pressure measurement instruments, and more than 25,000 hearing measurement observations, he developed and published the empirical mathematics which relates loudness sensation by frequency and sound pressure for the non-deficient ear.

About the time Victoreen relocated his laboratory to Florida, there occurred a national epidemic of German measles, a disease especially dreaded by newly pregnant women. The women contracting the disease during the first three months of pregnancy frequently produced children who suffered eye, heart, and/or hearing defects. The parents of these "Rubella" children were desperate

to find hearing aids for their children, and large numbers of these preschool and early-school children were brought to the Victoreen Laboratory for the special hearing aids he was developing. It was from his work with this hearing deficient population that Victoreen learned the dismal state of hearing aid quality and the inefficient way they were used with young children and their development of language skills.

The Victoreen Instrument Company was and is known today for the very high quality instruments produced. Quality, precision, and reliability were John Victoreen's hallmark, consistent to the day his heart could not sustain his body any longer, May 5, 1986. His development of hearing assessment instruments and precision amplification was as far ahead of this time as was his work in the early 1920's with radiation measurement and the designing of the Victory Superheterodyne Receiver.

# A Date With Radio

## NOVEMBER

<11> (from page six) 72,000 feet into the stratosphere, setting a world's high altitude record.

<12> On this day in 1938, Frank McNich, then Chairman of the F.C.C., said radio censorship was "impracticable and definitely objectionable". (Remember George Carlin's "Seven Little Words" in the mid-70s? The Supreme Court didn't even want to handle that one! Editor)

<15> By this date in 1927, the first radio sets were being installed in automobiles. ("Motor-ola" got its start. Editor)

<16> The Red Cross was promoting its Fund over a Fort Wayne, Indiana, station, so effectively by this date in 1943, the plan was adopted for use by stations and networks across the country.

<19> On this day in 1933, NBC was unfolding in broadcasts from Antarctica, the drama of Admiral Byrd's trip to the South Pole.

<20> In 1939 on this date, a pioneer FM radio station had begun its broadcasts into New York.

<22> KDKA in Pittsburgh began regularly broadcasting children's bedtime stories in 1923.

<24> In 1939, a station in Salt Lake City recreated in its studio a basketball game played in Denver.

<28> Groucho Marx made the transition from the Silver Screen to radio on this date in 1932. (Does anyone know the secret word? Editor)

# Gardner Band Welcomed at 'Rainbow'

Dick "Hotcha" Gardner and his orchestra, brought to Denver for featured holiday billing at the Rainbow Ballroom (5th



DICK GARDNER

and Broadway) will be heard over KVOB each Saturday, Sunday, Tuesday and Thursday evening during the Christmas season.

Gardner has appeared to many eastern night clubs as the "Believe It Or Not" band leader. Ripley made him famous for being able to hold a note for 29 minutes on his clarinet. The dance maestro has played over all of the major radio hookups in this country and in Great Britain.

Mr. Gardner was first employed in a small radio station studio as a recording operator. He soon grew tired of hearing others play while he stood in the background, and so he started his first band.



(The article to the left came from the December 1939 issue of the *Western Dial* published for years in Denver. Editor)

## A Date With Radio

(Continued from page 6)

### OCTOBER

<12> The first radio signal was sent across the Atlantic by Marconi on this day in 1901.

<15> On this date in 1941, all four national networks broadcast the drama "We Hold These Truths". Heard by an estimated 60 million persons, the play attracted the largest audience in radio history to that time.

<16> The first radio singer, Eugenia Farrar, was heard on this day in 1907 in a broadcast from the Brooklyn Naval Yards.

<17> On this day in 1939, a national network carried an eyewitness account of the scuttling of the German battleship, Graf Spee

<19> Americans heard the first broadcast from outer space. President Eisenhower's Christmas greeting was transmitted from a tape recorder in a rocket circling the Earth.

<24> Reginald Fessenden made the first broadcasts combining phonograph music and talk on Christmas Eve in 1906. He used a high-frequency alternator at Brant Rock, Massachusetts, for his broadcast, which was picked up by ships off the Virginia coast. Operators were very surprised to hear Christmas music in their headsets rather than typical dots and dashes!

<27> By this date in 1941, New York and other American cities had devised air raid systems in which radio played the key role. The Emergency Broadcast System was born.



# Radio Parts'n'Pieces

## 1,000,000<sup>th</sup> Atwater Kent Receiver Is Turned Out

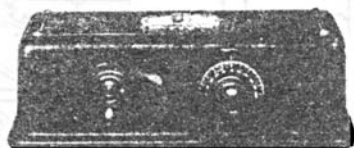
Philadelphia - December 3, 1926

A duplicate of the millionth Atwater Kent receiver, which according to word from the factory is scheduled to be turned out Friday, December 4th, and will be received by the H. T. Electric Company, an Indianapolis distributor for Atwater Kent. The set will bear a special gold plate with the number of the set certified over Mr. Kent's signature and will bear a serial number between 1,000,000 and 1,000,010.

In addition to the millionth set, Friday, more than 5,300 other receivers will be turned out. In 1922 6,628. Tremendous shown yearly, until production will be

(Although not quoted above, the Model 35 which was sets. A single-dial cabinet utilizing

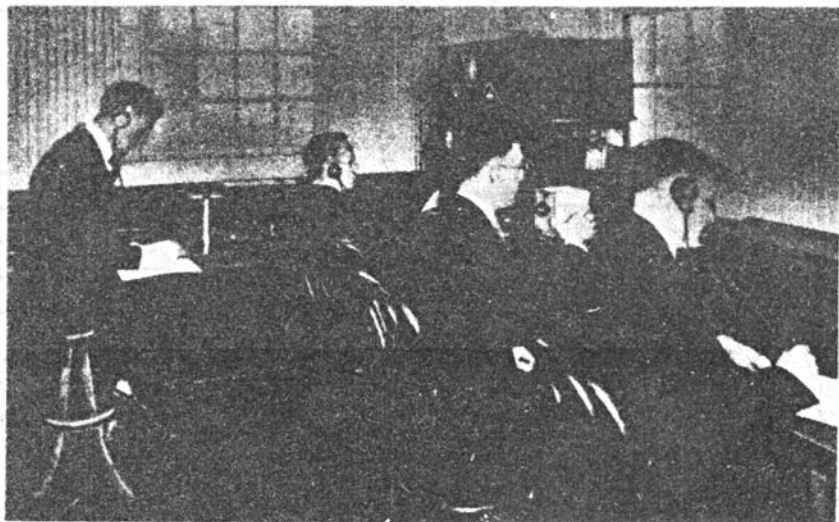
output, made it very affordable. The set in 1926 was called the "Treasure Chest" by dealers in their local advertising. Collectors today nicknamed it "The Bathtub" because of the shape of the cabinet when turned upside down for repairs. Others call it the "Dead Turtle!". You might imagine why! *Editor*)



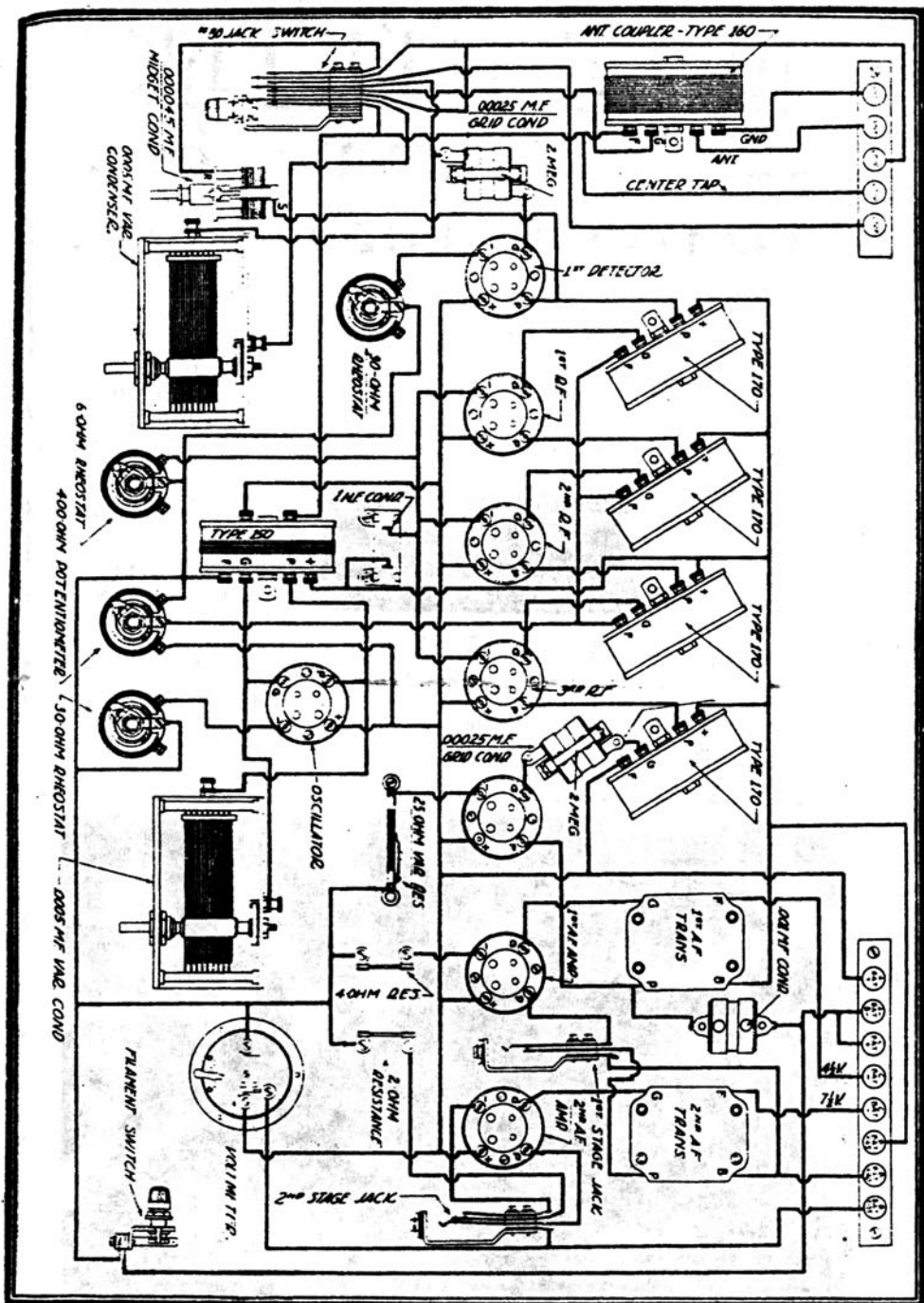
Model 35 Receiver

the production was production gains are this year when the 600,000.

mentioned in the article one millionth AK was a one of the later battery radio, with an all-metal 201As and a 171a



One of Radio's Most Famous Broadcasts occurred on November 2, 1920. From the newly licensed KDKA, Pittsburgh, was transmitted the Harding/Cox returns.



# Wanted / 4Sale

## 4Sale:

Twelve tube Zenith Console Model 12H670 in excellent working condition...\$185

**Riggs Smith**  
7477 West Nichols Place  
Littleton, CO 80123  
(303) 973 • 8792

## 4Sale:

Stewart Warner chassis - 950 Series with matching speaker. Excellent working condition. Make offer....

**Riggs Smith**  
7477 West Nichols Place  
Littleton, CO 80123  
(303) 973 • 8792

**WANT ADS ARE FREE !!**

## Wanted:

Bitten by the PNP/NPN bug! Transistor Pocket Radios with the Conelrad Civil Defense (▲) symbols on the dials. Prefer good condition or better. Get me started...What ya got?

**Rick Ammon**  
1249 Solstice Drive  
Fort Collins, CO 80525  
(303) 224 • 5446

## 4Sale:

Philco Model 87 chassis and matching speaker. Excellent working condition. Make offer....

**Riggs Smith**  
7477 West Nichols Place  
Littleton, CO 80123  
(303) 973 • 8792

## Wanted:

Have list of earphones to trade for ones I need. Send you list.

**Gilferd Baker**  
112 Pearl Street, Box 139  
Emden, IL 62635

**UGLY  
EMPTY  
SPACE**



**CONTRIBUTIONS NEEDED**



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

**Colorado  
Radio  
Collectors**

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