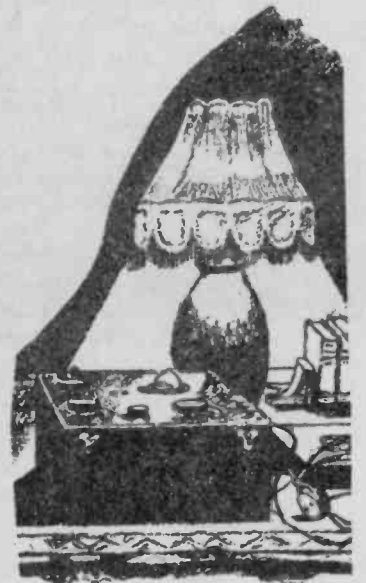


Price \$7.00 yearly Single issue \$1.00

THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

THE HORN SPEAKER

RADIO NEWS FOR JANUARY, 1930



growing demand for information regarding the various types of receivers designed for automobile use, and the various systems for eliminating some of the defects encountered where these installations are made. Among the service men and operators of garages and filling stations there is a rapidly growing demand for automobile receiver kits. RADIO NEWS has already spent thousands of dollars in investigating the field for the application of automobile receivers as well as the technical requirements which the use of these receivers involves. This introductory article indicates the line along which we are working, and in succeeding articles we shall provide our readers with definite technical information from which they may duplicate the results we have obtained.

The Circuit

From sad experience we have found that ordinary radio receivers will not function satisfactorily when bounced around in an automobile. Furthermore it is necessary in choosing a circuit to give serious consideration to the size of the automobile battery, the charging rate of the generator on the car, the number of tubes it will be necessary to use, and the character of reception we are going to demand. For ordinary purposes we recommend the use of not more than two stages of tuned radio-frequency with some suitable audio amplifying system. Our own experience indicates that, for a number of reasons, resistance coupling is desirable. In the development of a circuit of this character it is necessary, in order to receive from local stations, to provide very much greater sensitivity in the radio-frequency circuit than is required with the ordinary broadcast receiver, where it is possible to use a good sized antenna and a satisfactory ground. In order to obtain this result we have used a screen-grid blocking tube in the antenna circuit. 2 screen-grid radio-frequency stages feeding into a hi-mu tube operating as a detector and feeding into a screen-grid resistance-coupled audio tube having as a second stage a standard 112 output tube. Some output filter device should be used to prevent the high voltage from the B batteries passing through the leads to the loud speaker.

In choosing tubes for a receiver of this character, best results can be obtained if the heater type a.c. tubes are employed in a series parallel connection. There are three reasons for using tubes of this character: First, they are not as fragile as battery-operated screen-grid tubes; secondly, they are less microphonic and thirdly, the amplification per stage is greater when they are used. There is one serious drawback, however, which results from the increased filament consumption of tubes of this nature. This is particu-

The Recent Radio News Survey Indicates Tremendous Possibilities in This Field, Which Manufacturers and the Radio Public Have Been Quick to Recognize

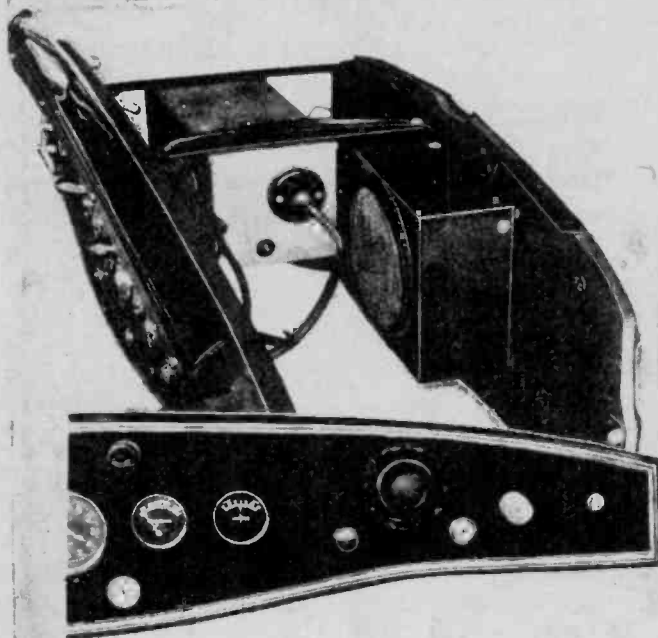
By Arthur H. Lynch

The automobile models follow the same general design as those made for airplanes, and this company is in a position to cooperate with automobile manufacturers in fitting receivers to any make of car.

The dimensions of one model of the RFL receiver are eleven inches long, seven inches high, and six inches deep. With tubes, cable, and volume control the weight is ten pounds, two ounces. The volume control knob appears on the instrument board and varies the control grid bias on the radio amplifier tubes.

One of the first concerns to enter the auto-radio field was the Automobile Radio Corporation, 37 Queens Boulevard, Long Island City, New York, makers of the "Transitone" receiver. Branches of this organization in all principal cities of the United States are prepared to install radio equipment in every make of automobile. This six-tube outfit consists of three stages of tuned radio-frequency, a detector, and two stages of audio-frequency amplification. A power tube is used in the last stage, and the entire receiver is enclosed in a copper box which serves as the necessary shield.

After several conferences with some of the most important manufacturers in the country, we find that there is a constantly



Above: Tuning in a Transitone Auto-Radio receiver. At the left: assembly details and the dashboard layout of a Delco-Remy Cadillac installation. The loud speaker is mounted behind the dash, near the receiver

WE have been operating radio receivers in motor cars for a number of years. In fact, during the Presidential Conventions five years ago we had a receiver in a touring car parked outside Madison Square Garden, where a large overflow crowd was enabled to hear the proceedings inside. In those days the receiving was done with a superheterodyne and a loop installed in a convenient portion of the tonneau. At other times similar installations were made in coupes and sedans, and occasionally we treated Broadway crowds to radio concerts and fought our way through the traffic jams during

the theatre hours. Since that time some people have come to realize that a radio receiver on an automobile is a desirable thing.

We find also that the Delco-Remy Company, a manufacturing subsidiary of the General Motors Corporation, is offering complete radio receivers for sale through Cadillac and La Salle dealers.

Some time ago the Radio Frequency Laboratories of Boonton, New Jersey, designed a remote control receiver for use in airplanes, which has proved so successful that they have now turned their attention to broadcast receivers for motor cars.

larly bad when the car is equipped with a small battery and you are operating a receiver with a heavy filament drain during the winter months. This is especially noticeable when you make a number of short runs and are frequently starting and stopping. The combined drain occasioned by this starting and the use of the radio receiver means that your battery will run down faster than it can be charged by the generator. If an attempt is made to compensate for this deficiency by increasing the charging rate of the generator, you run the risk of burning out the winding. Therefore, in some of the receivers with which we have been experimenting, a compromise has been effected by using the ordinary type of battery-operated tube.

Receiver Suspension

We have attempted to get the maximum gain out of our radio-frequency and audio-frequency circuits. We also have tried to overcome the shortcomings of filament fragility, as well as possible microphonic noises, by suspending both the socket supporting panel and the entire receiver on springs.

We believe that the ideal radio receiver for automobile use should have the following qualifications: It should be compact, light, completely self-contained, sensitive, comparatively selective, capable of producing good tone quality, and both water and dust-proof. The system found to be most satisfactory is that of building a good circuit into a metallic housing, with all of the seams of this housing made both water and dust-proof by the application of paraffine-soaked felt inside the seams. Such a receiver has been built into a brass case measuring 7x7x14 inches. The entire assemblage may be mounted in any part of a car, such as under the back seat, under the front dashboard, directly to the baffle plate which supports the motor section from the inside of the tonneau; or, for that matter, it may be mounted on brackets under the hood and directly above the motor, as is done with some of the cars made by General Motors. A switch, volume control and dial are mounted on the dashboard or in any other convenient part of the car, and the receiver itself is operated by a remote control.

An ideal way to mount the receiver is to make two brackets out of wrought iron and hang them from the chassis, so as to provide an anchorage similar to those used for carrying the storage battery on most cars. Precaution should be taken, however, to make these brackets large enough to provide either spring or cushioned rubber suspension for the receiver itself. The proper type of shock-absorbing suspension will take up most of the road shocks, and will result in better reception as well as increased tube life.

Remote Control

In connection with the remote controls we find that flexible shafting, such as is used in dental drilling machinery, is ideal when it is combined with reduction gears. We have been able to secure suitable cable from the S. S. White Dental Company, and the Boston Gear Works has provided us with the various worm and pinion gears having a reduction ratio of 20 to 1. One set of gears is used between the dial shaft and the dental cable, and the other set forms the connection between the flexible shaft and variable

condenser. No fittings suitable for use with these gears are available at present, and they must be made by hand. This is a comparatively delicate undertaking and requires more than ordinary skill with tools.

A forthcoming issue of RADIO NEWS will contain complete details for making an assemblage of this character.

Shielding

In connection with the remote control of the receiver we have found that a great deal of the noise caused by the ignition system used on the motor can be eliminated by properly shielding the wires leading from the receiver itself to the control panel, and to the B batteries. In order to bring about this result we have used No. 14 paired armored cable, and we have run the group of wires used in the B battery circuit through a metallic sleeve.

letters

Dear Jim:

Thanks for the renewal notice. Would have forgotten all about renewing my subscription. Hate to miss a single issue of your fine paper. Will renew for 2 years.

Have found some nice goodies this past summer, among them a nice Scott All-Wave 15 and a Pilot 3 inch TV. Had to go away from home to find tho, not much in old radios in the Chattanooga area... Sad, it must have been thrown away.

Again, thanks for the notice and keep up the good work.

Best Regards,
Rick Taylor
7136 E. Lea Road
Chattanooga, TN 37421

Dear Jim:

Thank you for your kindness in sending me your renewal card, as my present subscription to your fine paper has expired. I believe you have one of the finest papers available on the art of antique phonograph and radio collecting. I especially appreciate your fine articles on the restoration of antique phonograph sound boxes. Also appreciate the resume of the many fine letters from fellow collectors which are published in each issue. Thank you for

the publication of a fine paper. Please renew, my present subscription for a period of two years. My remittance in the amount of twelve dollars is enclosed.

My sincerest regards,
Howard C. Bergstrom
5142 Grant Street
Omaha, Nebraska 68104

"Hornspeaker" , I enjoy your magazine very much. I would like to see it is an 8 1/2 X 11 form, however so we could store them without so much room.

I have a suggestion for those who have a hard time re-whitening dials, letters on panels, etc. I bought a tire whitening stich at a drug store and it is the best I have tried. The name is "CAL CUSTOM, Cal 90745.

Cut off the hard outer coating and you are in business. One problem which I havent found a solution as yet is how to fill in scratched numbers, names, etc. from old panels. I have tried melted crayons, but no good. About to dismantle and sand the whole panel down??? Have covered some with those old labels of metal with aerial, ground, B plus, etc. but some wont cover very well. Any suggestions? Would like to find some tubing to make tube sockets for UV99 tubes. It is an inch inside diameter and none available so far.

I cant tell when my subscription expires--- How do you code it??

J. N. Clapp
1202 W 5 th Street
DeWitt, Iowa 52742

EDITOR...The numbers following the "3" indicate the expiration date of a subscription. For example, S1280 is December 1980.

Dear Jim:

I would like to reply to Mr. Sarver's article in the November issue. I feel that he has me all wrong. I advocate paying a fair price, but not going over-board.

I advocate obtaining all the old radios that one can, for then we collectors can be sure that they will not be junked.

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THE HORN SPEAKER
P.O. BOX 53012
DALLAS TX 75253

They will be treated with the respect they deserved -- and kept in our collections for future generations to view.

Most of the radios I have purchased were sold to me for a small price, or given to me because the persons knew that they would be well treated. They had no use for them anymore, and their children just weren't interested. I saved them from a junk pile.

Many of us collectors are in their sixties or better, and are now existing on Social Security. This type of fixed income leaves very little money to purchase radios -- cheap or not. Yet we dearly want to see these radios kept for posterity. Therefore it is a necessity to hold down the price when purchasing one. If we had the ready cash to spend, sure we would gladly pay a higher price -- but place yourself in our position.

I never sell one of the radios for a large profit. I sell only those that I have several of one model, and then only to persons who are starting to collect. If I make \$5.00 on a set I am happy, for I know that I have helped start another person to preserve our past.

Please remember us "old guys" who do not have the money to pay higher prices. Yet, we sincerely want to preserve the radios we grew up with. We are not out to make a fast buck on our excess radios. At least I am not.

Respectfully
George Friedrich
7162 Jacqueline Lane
Custer, Wisconsin
54423

Dear Jim:

Rec. reminder notice today. And must respond now - "don't wanna forget" - I'd be lost not being able to read The Horn Speaker.

I must say, the "Horn Speaker" is truly a fine magazine, and I really enjoy it. Thanks.

Regards,
Jack D. Minnaert
409 J. Ave. N.W.
Cedar Rapids, Iowa
52405

Dear Jim:

Boy, that letter from George Friedrich in your October issue really takes the cake. Hold down publicity about our hobby until he can amass a large stock of sets, then go out all

out with a national publicity effort to create demand and allow him to unload them at inflated prices.

Most collectors are driven by motives somewhat nobler than this. They appreciate the historical significance of these old sets and the part they played in the development of electronics technology and the American culture. Some of the old sets are classics of craftsmanship and design and when restored are a fascination and a delight to young and old, neophyte and expert. Many restored sets are displayed in museums, public and private. Then there is a great satisfaction and pride real collectors get from a good restoration job. I hate to see the game spoiled by crass commercialization and ruled by the almighty dollar sign.

George complains about depressed prices, yet he contributes to it by telling antiques dealers and auctioneers that the sets are of little value. Whatever happened to old fashioned honesty George.

Frank Kohl
7116 Capitol View Dr.
McLean, VA 22101

Gentlemen:

I enclose an ad for one of your future issues. Have enjoyed your articles very much. At my age it don't take much to please me. I grow kind of down -- when I think of the good old days of early radio.

I made my first crystal set in a little old workshop on our farm. Had plenty of black walnut so anything worthwhile was made with walnut -- even today when I get a console cabinet -- cheap set -- PINE CABINET. Real nice set BLACK WALNUT. (The mahogany from Phillipines is surely no substitute for the beautiful Honduras used "ny" AK)

AND HOW THE MAGAZINE PUBLISHERS PULLED OUR LEGS -- Plenty of experts (ON PAPER)

I still remember the first time I turned on my homemade crystal set -- In those days we had to have a huge slate base lightning switch. When I threw over that switch the headphones almost fell off the desk.

My Dad was so excited he would have given me the farm right then. WOC at Davenport, Iowa was about 12 miles from our farm. We used batteries for lights --- no interference --- wooden windmill tower, 100 feet into my bedroom window and grounded with a lightning rod

cable to a well casing. BOY WHAT A SET UP... THEM WERE THE DAYS I DREAM OF....

J. N. Clapp
1202 W 5 th Street
DeWitt, Iowa 52742

club news

BEST EVER

Had a great time at Canandaigua A. W. A. Meet. Best ever. Any that don't get to it are really missing a wonderful time.

R. Chester Wisner
Dalton MA 01226

MID-AMERICA ANTIQUE RADIO CLUB

The winners of our contest at our last meeting, November 2, were as follows: BATTERY RADIOS first prize, NAFR 4 tube regenerative from St. Louis - Bob Lane; second prize, Precision Ace 1922 tuner - Jon Walker; kit made in Kansas - Will Jenby. AC SETS first prize, blue glass mirrored Sparton - Dale Monagren; second prize, Abbotware hula dancing girl radio - Marion Ganote; third prize, Dionne quints radio - Vern Paterson.

Gary Barnhart won first prize of the crystal sets with a Lalley Electric. Bob Lane won second prize with a Gunlock-Manhatten. In "radios related" Marion Ganote won first prize with a Holtz Static Machine. Don Yoder won second prize with a Huge WLS-B Battery. And Bob Lane won a third prize with an early Omnigraph.

Bob Lane gave a talk on the early pioneers of wireless. He suggested that the earliest one to put out radio waves at a distance with an antenna was Benjamin Franklin when he flew a kite in a storm making sparks with a key attached to the kite string. Can anyone remember anyone earlier?

Our next meeting is April 12, 1981, Psalm Sunday, at the Kansas City Museum. The meet will include our annual radio auction. We are sending out 24 page bulletins. 4 times a year. Dues are \$5.00 per year payable to Bob Lane, 2301 Independence Avenue, Kansas City Missouri 64124.

VRPS WINNERS

Two winners have been reported to us.

Thomas H. Burgess won the Best of Show Trophy for radios at the 1980 Vintage Radio and Phonograph Society during the first week-end of November. Tom, who is from Little Rock, Arkansas, won the contest with his scanning disc television demonstration. Rick Wilkins won the top trophy in the phonograph division.

FIRST ANNUAL MEET

Rosemary Dittmer, secretary of the Antique Radio Club of Illinois, sent us the following information.

The Antique Radio Club of Illinois held its first Annual Meeting on October 26, 1980 in Mt. Prospect, Illinois. It is a pleasure to report that our meetings have been very well attended. The members are enthusiastic and, hopefully, in the future, even more members will be able to attend and enjoy with us the "radio talk" and mutual interests.

The ARCI elected officers for 1981 are: Joe Willis, president; Barry Janov, vice president; Larry Wright, treasurer; Rosemary Dittmer, secretary. Any of the officers are available if you desire any information regarding the club.

We awarded the 1st Annual Scarf Award to Gil Schlehmann for his outstanding versatility at Canandaigua. Notably, Gil decided to open the AWARD in private rather than at the meeting. I'm sure that we will be hearing of this AWARD in the future.

In honor of a fine gentleman, it was voted to make Eric Shatkhauser an honorary member of the club.

In other news, the meetings for 1981 have been tentatively set up. The first meeting will be held on February 21, 1981 at the Holiday Inn in Elgin Illinois.

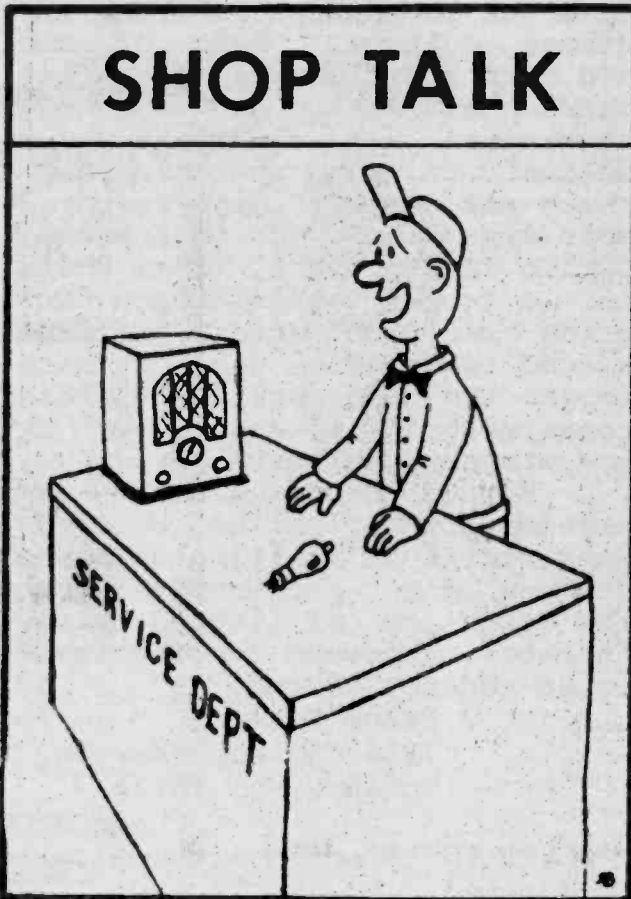
We plan a sell and swap meet with the Indiana Club early in May. No formal meeting is planned in connection with this meet. Location and date will be announced at a later date.

On the second Sunday in August 1981 we plan a swap only in conjunction with a large ham-fest. Again, time and place to be announced at a later date.

This first year has been interesting and productive. Hopefully, the future will see

our Club grow in membership and fellowship.

Rosemary Dittmer,
secretary
ANTIQUA RADIO CLUB
OF ILLINOIS
Route 2, Box 162A
Mundelein, IL 60060



SHOP TALK

WIRE WOUND VOLUME CONTROLS

by Ron Boucher

"Necessity is the mother of invention" is a phrase that really applies to antique radio repair. Most jobs are fairly routine with a testing and replacing of capacitors, which usually covers ninety percent

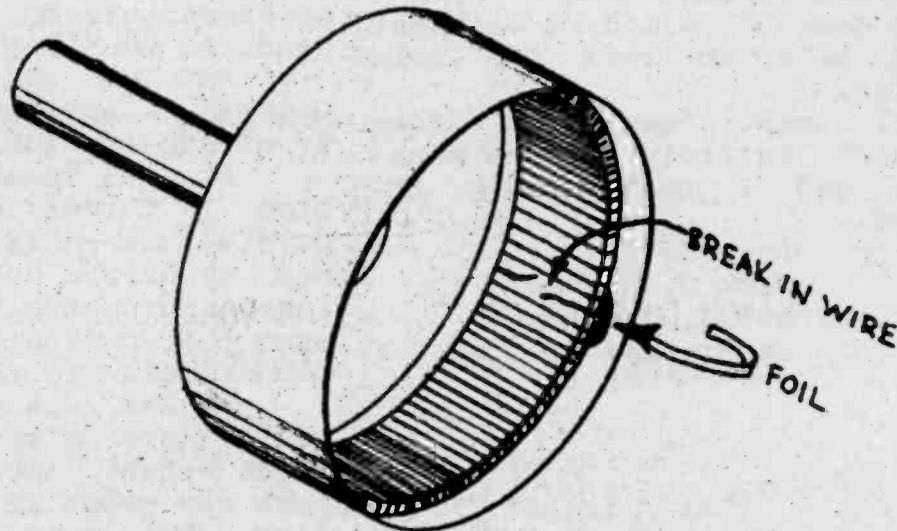
of the work. But there is always a fear that one will run into a defective part that is difficult to replace or repair the old part.

An example of this was the "double-decker" volume controls on the early Philco radios such as the model 70. This control has two separate units working together and both are wire wound. The resistance wire is wound around a phonelic strip and that is placed into the inside perimeter of the volume control casing.

I finally ran into a Philco that had a break in the resistance wire of one of these units, so the day had come when I had to invent a way to repair it. What I ended up doing was placing a small wad of aluminum foil under the phonelic strip so that the foil acted as a bridge across the break. You lose a few windings of resistance this way, but not enough to cause any problems. The illustration shows what I did. This method can be used on many types of controls, including the filament rheostats on battery sets.

Fortunately, the Philco control is easy to take apart, which could be a problem with some controls. One more thing, one must be sure that any insulation on the wire must be scraped off, as I know you are aware, so that the foil will make good contact.

VINTAGE RADIO
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Ron Boucher
376 Cilley Road
Manchester, NH 03103
(603) 669-1698



PLACEMENT OF FOIL



PUETT ELECTRONICS

PUBLISHERS OF

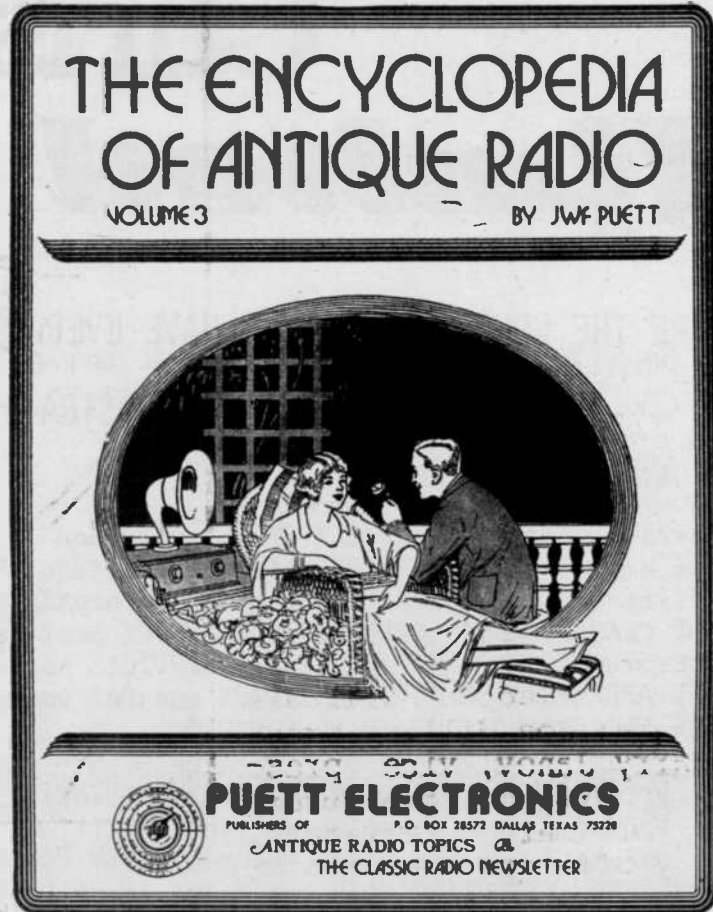
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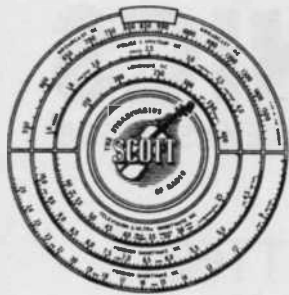
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- (2) All five of our RADIO BOOKLETS Acquisition, Battery, AC, Tubes, etc. (save \$2.50) \$4.50
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909 NE 11th
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Evenings & Week-ends

TRADES FOR THE ABOVE.

I will consider your offer of CROSLEY RADIOS & PARTS (prior to 1930). The below radios are NOT for sale, ... for trade only.

1. GPFBE CR 0. complete, no mods. needs complete clean-up and some owners will want to refinish the cabinet and front panel.
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3. ZENITH 4R, complete, cleaned, refinished

THE BELOW ITEMS ARE FOR SALE - PLUS POSTAGE - SHIPMENT 3 WEEKS

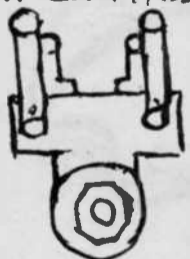
**DE FOREST
COILS AND ACCESSORIES**



Two COIL HOLDERS



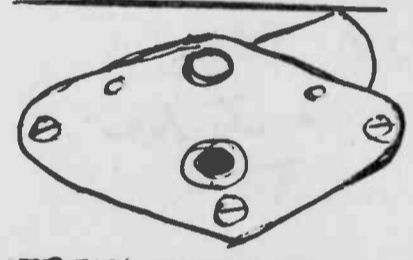
- 1 EACH WITH BASE (A)
- 1 EACH WITH OUT BASE (A)
- 8 EACH VARIOUS CUTS (B)
- 3 EACH COIL HOLDERS (C)



ONE OF THESE

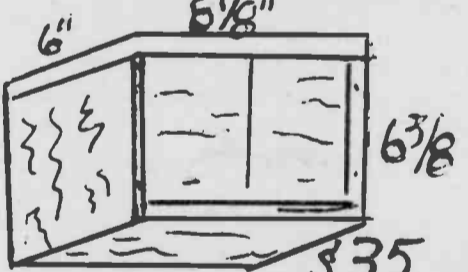
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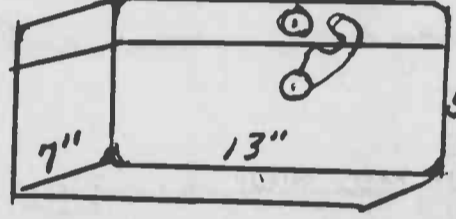
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EXCELLENT 8.00

SODION CABINET

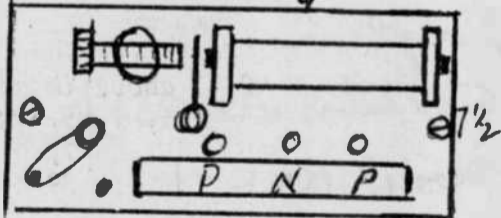


METAL TAG ON TOP



\$35.00

MEDICAL 9"



"THE MOLER SYSTEM
OF COLLEGES"
\$25.00

**CANNONBALL
PHONOGRAPH ATTACHMENT**

CHECKS GOOD
\$10.00

WATCH

POCKET
VOLTMETER

AREAL FINE COLLECTION



1. READRITE "new std." amperes" excellent \$12.00
2. same as above, used \$8.
3. "beckley-ralston Co" w/ case & leads. exc. \$12.00
4. Sterling Mfg Co, new, \$15.
5. "Beede Meter" v-amp (3ea) excellent \$10. each
6. "ADEMCO" like new 0-35 \$10.
7. Ammeter 0-30 (no glass) \$4.
8. Battery checker 22.5 to 50v \$10.00
9. Sterling volts, 0-120 \$12.
10. "Howe" 0-40 A., small, neat, \$15.00
11. "SEARS ROEBUCK & CO., V GOOD COND. METER SLUGGISH, \$15.00
12. AMERICAN EVER READY CO 0-35amps \$12.00
13. Two-way battery checker. new. perfect \$8.00

A LARGE BOX OF USED

COIL FORMS
\$8.00



WALTER L. JACKSON
909 NE 11th
GRAND PRAIRIE, TEXAS 75050



OLDE TYME RADIO COMPANY
2445 LYTTONSVILLE ROAD
SILVER SPRING, MARYLAND 20910

For Sale

- AK style battery cable
5-conductor .75/ft
6-conductor 1.00/ft
- Brown silk type power cord .25/ft
- RF, ANT, OSC COILS, IF TRANSFORMERS MOST FREQUENCIES 2.50 EA
- TUBES, 1920 TO 1960. NEW OR USED, STATE YOUR PREFERENCE WRITE FOR A QUOTE
- EXACT REPLACEMENT HANDLES FOR RADIOLA II AND VIII 4.50
- VIBRATORS, NEW OR USED
6V - 4 PRONG OR 12V - 4 PRONG
6V or 12V NEW 5.50
6V or 12V USED 3.00

• Panel meters, many types -- new and used. State needs. write for quote

• Speakers, P.M. & Dynamic -- new and used. State needs. write for quote

• Antique head phones -- used 4.50 ea

• Replacement audio transformers, inter stage and output types
New 6.00 ea
used 4.00 ea

• Resistor line cord replacement kit 4-tube sets [(2) 6.3V tubes + (2) 25V tubes] at .34 Model RLC-1 3.50 ea

• Resistor line cord replacement kit 5-tube sets [(3) 6.3V tubes + 2 (25V) tubes] at .3A. Model RLC-2 4.50 ea

• Escutcheon and name plate screws
Brass - Round Head

Gauge	Length	Price
0	1/4"	} 10 for 50¢
2	3/8"	
1	1/4"	



PLEASE INCLUDE SUFFICIENT FUNDS TO INCLUDE SHIPPING

on the air



mart

On June 27 and 28 we celebrated our 100th year as a city. As part of that celebration I displayed many of my old radios and phonographs for those who were interested. They could view and hear them play -- even could operate one for themselves to see if they could locate a station or two. Well, over 400 people filed past to view and operate them. All had a great time including me.

As a result of this showing -- met some folks who had some old radios and phonographs. Sure increased my collection my collection greatly with some very fine sets and related items.

Yours truly,
Lyle Scheid
R R No. 1 Box 14
Iroquois, SD 57353

THE RADIO COLLECTION of Lyle Schied, right, interested many at the centennial Saturday. Schied's collection was housed in the old bank building, which was also the center for more antiques, newspaper clippings, photographs and other memorabilia. Schied has been collecting radios and restoring them to working order for over 30 years. Admiring the collection were Lee Walls of rural Iroquois and Alvin White of Wessington.

Dear Jim:
Sorry you didn't get to the S.E. AWA Meet last April. Thanx for telling about it, in The Horn Speaker. I'm sure it helped to bring over 100 members for the weekend and banquet. Great fun for all.....

Sincerely,
Patsy M. Hicken
P. O. Box 186
Charleston, SC 29402

RATES FOR THE HORN SPEAKER
One year.....\$7.00
Two years.....\$12.00
Special rates for one year
First class.....\$12.00
Foreign air mail.\$16.00

List ads - 35¢ per line

AD SPACE:
full page.....\$50.00
half page.....\$25.00
quarter page..\$12.50
multiple runs.....
20% discount

Classified ad rate: 6¢ per word
Photo ads: \$2.00 extra
Deadline: 20th of the preceding month.

RADIO TUBES

OLD TUBES
Box 201A
Lookout Mountain, Tenn.
37350

LIST VALID
THROUGH 1980

Proprietor
Walter Swartt
(615) 821-6953
8pm to 11pm

All tubes guaranteed to check out on tube tester for shorts and conductance. In USA you pay \$2.00 for each unit of ten, or less, tubes shipped. UPS used in USA unless you state otherwise. Ask costs on foreign shipment.

Type	new	used	Type	new	used	Type	new	used	Type	new	used	Type	new	used
12A	10	7	34	4	2	45	10	7	58	5	4	83	7	4
19	5	2	35/51	5	3	46	5	3	59	6	4	83V	7	4
22	10	7	36	5	2	47	7	4	75	4	2	84	4	3
24A	6	3	37	5	2	48	6	3	76	4	2	85	15	8
26	6	3	38	4	2	49	5	2	77	4	2	89	4	3
27	6	3	39/44	4	2	50	10	7	78	4	2	1V	10	7
30	5	2	40	-	-	53	15	8	79	4	2	801	10	-
31	5	2	41	5	3	55	6	4	80	5	3	807	10	-
32	5	2	42	5	3	56	4	3	81	7	3	1625	5	-
33	5	2	43	5	3	57	4	3	82	6	3	71A	10	7

RARE TUBES	
Type	new used
WD11(bb)	- 20
WD12(bb)	- 20
UV199(bb)	- 8
UX199(bb/ob)	12 8
UX120	- 8
215A(ob)	12 8
874(ob)	15 -
876(ob)	15 -
UX201A	10 7

Type	new used
CG1787(bb/ob)	10 -
8H(bb)	10 -
BR(bb/ob)	15 -
VT2(bb/ob)	15 -
VT4C	10 -
bb= bakelite base	
ob= orig. box with new tubes	
(CG1787 is like UV01A with 3.65v filament)	

ACTURUS BLUE	
Type	new used
39/44	6 -
81	8 -
127	6 -
SPECIAL	
3KP1 (will replace JKP4 in 3" Pilot TV, but has green fluorescence) \$50.00	
231D (replaces UX199; in original box) \$12.00	

FOR SALE OR TRADE

REPRODUCTIONS OF RED PUSHBUTTONS
for late 30's Philco radios
(\$6.00 per set). Send me an or-
iginal button so that I may
match the length. H. Brans,
2427 Durant #4, Berkeley, CA
94704.

SELL OLD RADIOS, ETC. FOR THE
new collector. Four lists avail-
able on radios, magazines, books
and misc. \$1.00 each list (re-
fundable on order) W2GHF, 45
Allen Dr., Woodstock, NY 12498.

RADIO DIAGRAMS \$1.25 each. Wil-
lis Housel, 3311 S. 54, Lincoln
Nebraska 68506.

COMPLETE LINE OF DIAMOND NEEDLES
for juke boxes; AMI, Rock-ola,
Seeburg, Wurlitzer. Please
write for listing and prices.
KEITH ELECTRONICS, Lock Haven,
PA 17745 Phone (717) 748-7163

ADAMS MORGAN (PARAGON) 1922 cat-
alog reprint. VT control, cry-
stal, radios, transmitter,, etc.
16 pages illustrated, \$2.95 ea.
plus .50 handling mailing. Cecil
Bounds, Pine Springs Rte. Carls-
bad, NM 88220.

FOR SALE: AUTHENTIC REPLICAS:
FRONT PLATES FOR AK VARIO COUPL-
ERS, VARIOMETERS, TYPE 11 TUNER,
DIALS, KNOBS, POINTERS, BINDING
POST NUTS, PUSH BUTTONS, BELT
DRIVE PULLEYS FOR AK AND MUCH
MORE. SASE FOR LISTINGS. K. PAR-
RY, 17557 Horace, Granada Hills,
CA 91344.

FOR SALE OR TRADE: OLD RADIO
BOOKS, next 5 sales lists for a
\$1.00. RADIOGRAPHICS BOOKS, Box
18492, Cleveland Heights, OH....
44118.

COMPLETE LINE OF DIAMOND NEEDLES
for juke boxes, AMI, ROCK-
OLA, SEEBURG, WURLITZER, Please
write for listing and prices.
KEITH ELECTRONICS, 209 Bellefon-
te Ave., lock haven, PA 17745.
Phone (717) 748-7163 ...

FOR SALE: RCS-728 power supply
now in 9th year of manufacture.
Do you have yours yet? Send SASE
for spec sheet to: Gary Schneid-
er, 6848 Commonwealth, Parma
Hghts., Ohio 44130..

FOR SALE OR TRADE: Edison T-
shirts and tote bags! Send for
descriptive flyer. Phonograph
postcards, send stamp for sample
New Amberola, 37 Caledonia, St.
Johnsbury VT 05819...

FOR SALE OR TRADE

FOR SALE: CATHEDRAL, battery
and AC radios from 1920's and
1930's. Please send large S.A.S.
E. for list. J. Albert Warren,
Box 279, Church St., Waverly,
PA 18471.



CALL 503-476-1078
OLD RADIOS -

FOR SALE: CATHEDRAL RADIOS At-
water Kent breadboards. Outside
horn phonographs. Large list
\$1.00. Charles Seidel, 925
Starlite, Grants Pass, OR 97526

**TELKOM ROARING '20's
DECORATOR TELEPHONE**



NEW ROARING 20'S DECORATOR TELE-
PHONE. ROTARY DIAL AND RINGER
WITH VOLUME CONTROL. FCC APPROV-
ED, MODULAR PLUG. COLOR: IVORY,
ORDER TODAY. \$89.95 POSTPAID.
KEITH ELECTRONICS, 209 BELLE-
FONTE AVE., LOCK HAVEN, PA 17745

SINCE 1975 "RADIO AGE" MAGAZINE
has featured articles on the
history of early radio, restor-
ation hints, biographical
sketches of radio pioneers along
with lots of photographs and
classified ads. "Radio Age" is
published monthly except July
and August. Subscriptions are
\$11.00 for 1st class mailing and
\$8.50 for 2nd class mailing.
Send check or money order to
Radio Age, 636 Cambridge Road,
Augusta, GA 30909. Sample \$1.00.

MERRY CHRISTMAS
HAPPY NEW YEAR

FOR SALE OR TRADE

FOR SALE ARMY BC-9A - very nice
\$150.00, Aeriola SR. & amp. no
tubes \$200.00, Magnavox R-3-horn
-nice - \$60.00, Want audio for
Kennedy VI. Bob Lane, 2301 In-
dependence Ave. Kansas City, Mo
64124.

AK MODEL 67 in hi-boy cabinet,
complete, RARE model - \$50.00
can't ship. Silvertone model
6048 in TM cabinet with vibrator
power supply \$25.00. Charles
Fowkes, WB4BOM, 4903 29th Ave.
W., Bradenton, FL 33505, Tel.
(813) 792-4049.

VINTAGE RADIO & ELECTRONICS -
Repairs on all type, radios and
T.V.'s. Schematics available
for \$1.00 each. Phonograph nee-
dles, send old needle. Transfor-
mers rewound or wound, any vol-
tage you need. 1419 8th St. -
Rockford, IL 61104. Telephone -
(815) 964-3221.

FOR SALE: 3 HRO RECEIVERS, 3
Hallicrafters, Western Electric
7-A amplifier w/tubes \$149.50,
Radiola 17 good working condi-
tion \$58.00, Matching speaker
\$20.00, Crosley 51 w/tubes
\$78.00. List for S.A.S.E. and
quarter. W1VSR, 1014 Main St.,
Dalton MA 01226.

SUPREME RADIO DIAGRAM MANUALS,
useful 5 volumes, "Nostalgia
Special," only \$8. Beitman, 1760
Balsam, Highland Park, IL 60035.

MERRY CHRISTMAS
HAPPY NEW YEAR

**BACK ISSUES
ORDER NOW!**

- All 10 for 1973...\$8.00
- Single...\$1.00
- All 10 for 1974...\$6.00
- Single...75¢
- All 10 for 1975...\$5.00
- Single...75¢
- All 10 for 1976...\$5.00
- Single...75¢
- All 10 for 1977...\$5.00
- Single...75¢
- All 10 for 1978...\$5.00
- Single...75¢
- All 10 for 1979...\$5.00
- Single...75¢
- Single issue for 1980 \$1.00

THE HORN SPEAKER
Box 53012
Dallas, Texas 75253

FOR SALE OR TRADE

 Philco 4 band cathedral 16B ...
 \$150.00
 Burns speaker with celluloid
 horn \$130.00
 Western Electric 518W horn
 \$95.00
 Magnavox R-2 \$95.00
 Magnavox M-4 \$70.00
 Magnavox M-1 \$50.00
 Utah metal "U" shaped horn
 \$40.00
 Radiola 100A - 100 speakers
 \$35.00 each
 AK-E - E-2 \$50.00 each
 Other speakers . . \$25.00 and up
 Radiola 17 & 18 elec. recon.
 \$85.00 each
 AK-37 \$90.00
 AK-44 elect. recon. . . \$110.00
 GE-A82 4 band deco \$85.00
 Revolutionary war period elec-
 trostatic device also used in
 early electrotherapy 1760-1780.
 Doug Dexter, 151 Hudson St. New
 York, NY 10013 (212) 226-4885.

 I WOULD LIKE TO THANK ALL THOSE
 who have responded to my auto-
 motive radio items wanted ads.
 Sorry I can't buy it all, it's
 a problem when an item costs
 more to ship than its worth. All
 the best to you and yours in the
 holiday season. Marvin Roth,
 14500, LaBelle, Oak Park, Mich-
 igan 48237.

 ANTIQUE RADIOS AND RECORDS. SEND
 S.A.S.E. TO ARTHUR HARRISON,
 1021 FALCON DRIVE, COLUMBIA, MO
 65201.

 TRADE OLD RADIOS - CATALOGS -
 literature - parts - tubes for
 old stringed musical instruments
 - fiddles - guitars - mandolins
 - banjos - etc. Regardless of
 condition. Please describe.
 Cecil Bounds, Pine Springs Rte.,
 Carlsbad, NM 88220.

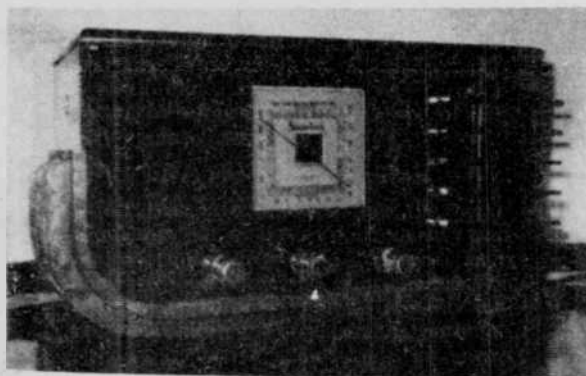
MERRY CHRISTMAS
 HAPPY NEW YEAR

Wanted

 AUTOMOTIVE RADIOS AND PARTS. VI-
 BRATORS, new only, 6 volt and 12
 volt 4, 3, 5 prong. Paying aver-
 age \$2.00 each. 1930's and
 1940's original equipment rad-
 ios. Antennas. CASH, SHIPPING,
 and FINDERS FEES PAID. Thank
 you. Marvin Roth, 14500 LaBelle
 Oak Park, MI 48237 Phone (313)
 399-5993.

WANTED

 RAYTHEON TELEVISOR LAMP FOR JEN-
 KINS Scanning Disc TV. Top price
 paid for scanners. Bill Russell,
 6463 1/2 Fulton Ave. Van Nuys,
 CA 91401 (213) 989-4086.



 COLORED MIRRORED RADIOS (blue,
 peach and green) wanted by ob-
 sessed collector. I'm also in-
 terested in colored mirrored
 clocks. Can use any unusual i-
 tems from art deco period, such
 as chrome radios, etc. Also
 wanted. Philco Predicta tele-
 vision sets, coin operated radi-
 os. Barbara Gorton, Box 1252,
 Dayton, OH 45401. (513) 253-5073
 evenings.

 SIX ALIKE UV99 tube sockets or
 tubing 1 inch inside diameter.
 Anybody publish a booklet on
 early Atwater Kent breadboard
 radios before model 12? I want
 details of every set made by AK
 and hook-ups recommended by AK
 for units sold early with mount-
 ing board dimensions for each
 set. Detailed hook-ups for each
 set. Need a Pacent potentiomet-
 er 400 or 500 ohms or similar
 make in OK condition. J. N.
 Clapp, 1202 W 5th Street, De-
 Witt, Iowa 52742.

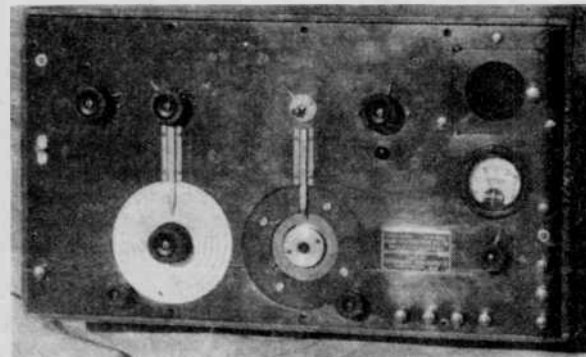
 WANTED: TRANSFORMERS FOR RADIOLA
 III-A; MATCHING SPEAKER FOR RA-
 DIOLA 33; COIL SETS D,H,J AND AA
 FOR NATIONAL HRO-50TI; WD-11 A-
 DAPTORS TO STANDARD 4-PIN; 100'
 COTTON OR SILKED WRAPPED STRAN-
 DED WIRE FOR RADIOLA 28 ANTENNA.
 CASH OR HAVE HUNDREDS OF ITEMS
 TO TRADE. JACK JAMES, 1418 CAY-
 WOOD, HOUSTON, TEXAS 77055 (713)
 686-0698.

 WANTED- 130 KC IF transformers
 dial AK627 Cathedral, Bob Nic-
 holson, 3423 Long, Topeka, KS
 66605.

 WANTED FOR DISPLAY: Scanning
 disc television, Patsy Hicken,
 WCSC Broadcast Museum, 80 Alex-
 ander Street, Charleston, S.C.
 29402. (803) 723-8371.....

 ADVERTISE IN THE HORN SPEAKER

WANTED



 WANTED: THE TWO KNOBS and the
 4 1/2 inch tuning dial missing
 from the BC-131 set as pictured.
 These knobs and dials are found
 on several wireless sets. Will
 trade for these or buy a junker
 set for parts. Don Smith, 4522
 Boynton Pl., Madison, WI 53714,
 (608) 241-4942.

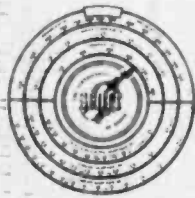
 CROSLY 59 CHASSIS, working or
 not; early odd-ball AC sets,
 Kellogg tube sets, Rogers bat-
 teryless sets & suitcase port-
 ables pre 1930. Will pay cash
 or trade for "Pup"; Crosley 50,
 Mayflower speaker and other
 goodies. Rosenthal, 507 S.
 Maryland Ave., Wilmington, DE
 19804.

 WANTED: 1928-1940 THEATER Horns
 and Drivers, particularly W-E
 and RCA. Shearer Two-Way Theat-
 er Speaker. Cinaudagraph PE-27
 and others. W-E 26A Multi-cell.
 Rayleigh Disc. Rola Horn Speak-
 er. Rola "Pedestal" Cone Speak-
 er. W-E 713-A H.F. Driver. Call
 (501) 777-6751. Jim Hunter, %
 Klipsch and Assoc., P. O. Box
 688, Hope, AR 71801..

 WANTED: CHASSIS and SPEAKER FOR
 A BRUNSWICK MODEL 16. (Vol. II
 Riders) Jack D. Minnaert, 409
 J. Ave. N. W., Cedar Rapids,
 Iowa 52405.

 WANTED; PANTOGRAPH ENGRAVING MA-
 CHINE, prefer Hermese or Micro
 or one that is suitable for en-
 graving bakelite radio panels.
 Must also have type and be com-
 plete with motor. Ralph G. Mad-
 dcx, Vali-Hi Farm, Purgitsville,
 WV 26852. Tel. (304) 289-3069.

 EARLY BREADBOARD COUPLED TUNER,
 SOCKETS, VAR CONDENSER, FIXED
 RF TRANSFORMERS NUMBERS 1 & 2,
 and a publication which starts
 with the first sets made by AT-
 WATER KENT to be assembled at
 home. I believe RADIO AGE had
 such a publication at one time.
 Tell me what parts, sets you
 need -- maybe we can trade? J.N.
 Clapp, 1202 W 5th Street, DeWitt
 Iowa 52742.



PUETT ELECTRONICS

PUBLISHERS OF P.O. BOX 28572 DALLAS TEXAS 75228

ANTIQUE RADIO TOPICS & THE CLASSIC RADIO NEWSLETTER

LIST NO. 18A

DECEMBER

THE HORN SPEAKER

1980

how to order:

- (1) MAKE ALL CHECKS OR MONEY ORDERS PAYABLE TO PUETT ELECTRONICS. ALL PAYMENTS MUST BE IN U.S. FUNDS AND NEGOTIABLE WITHOUT PAYMENT OF A BANK COLLECTION FEE. MONEY ORDERS ISSUED BY POST OFFICES IN CERTAIN COUNTRIES (CANADA FOR EXAMPLE) ARE ACCEPTABLE IF THEY CAN BE CASHED IN A U.S. POST OFFICE.
- (2) ALL ORDERS ARE POSTPAID AND INSURED. THE PRICE OF ALL ITEMS INCLUDES POSTAGE AND INSURANCE CHARGES.
- (3) TEXAS RESIDENTS ONLY - ADD 5% STATE SALES TAX.
- (4) YOU CAN USE YOUR MASTER CHARGE OR VISA TO CHARGE YOUR PURCHASES. VISA CUSTOMERS SEND YOUR ACCOUNT NUMBER AND EXPIRATION DATE WITH YOUR ORDER. MASTER CHARGE CUSTOMERS SEND YOUR ACCOUNT NUMBER, YOUR INTERBANK NUMBER (above your name on your card) AND YOUR EXPIRATION DATE. WE MUST HAVE THIS INFORMATION IF YOU WISH TO CHARGE YOUR PURCHASES.



IN A HURRY! You may call J. W. F. Puett at his residence from 9:00 AM to 10:00 PM Central Standard or Central Standard Daylight Time. We will be glad to help you with free technical consultation 214 - 321-0927 or 327-8721.

NEW! JUST OUT!! **ANTIQUE RADIO CATALOG** No. 18A -- **EVERYTHING FOR ANTIQUE RADIO RESTORATION**
APPROXIMATELY 800 DIFFERENT TUBE TYPES IN STOCK!!
INTERSTAGE & POWER TRANSFORMERS, CAPACITORS, RESISTORS, DIAL LAMPS, ETC.
PUBLICATIONS, LISTS, BOOKS, SCHEMATIC DIAGRAMS, TECHNICAL DATA, INSTRUCTION MANUALS, ETC.
ORDER YOUR COPY TODAY --- ONLY \$1.00 POSTPAID!!



ANTIQUE RADIO TUBES

HERE ARE A FEW OF THE 800 DIFFERENT TYPES OFFERED IN OUR CATALOG No. 18A! ALL TUBES ARE GUARANTEED. SEE OUR POLICY STATED IN CATALOG.

2A6	\$5	6K7	\$5	7C7	\$5	35	\$5	70L7	\$6
3Q5	\$4	6K8	\$5	7F8	\$7	35A5	\$5	71A	\$8
3V4	\$4	6L5	\$5	7G7	\$5	35L6	\$4	75	\$5
5AZ4	\$6	6L6	\$4	7H7	\$5	35W4	\$4	76	\$4
5U4	\$3	6L7	\$5	7Y4	\$5	35Y4	\$5	77	\$5
5Y3	\$4	6Q7	\$5	10	\$8	35Z5	\$4	78	\$5
5Y4	\$4	6S7	\$4	12A7	\$5	36	\$5	79	\$5
5Z3	\$4	6S8	\$4	12AT6	\$3	37	\$5	80	\$4
6A7	\$7	6S7	\$4	12AV6	\$3	38	\$4	81	\$7
6A8	\$5	6S7	\$5	12B7	\$5	39	\$4	83V	\$4
6C5	\$4	6S7	\$4	12BA6	\$3	40	\$8	84	\$4
6C5	\$5	6S7	\$4	12BE6	\$3	41	\$5	85	\$5
6D6	\$5	6S7	\$4	12K7	\$5	42	\$5	89	\$5
6E5	\$8	6S7	\$4	12Q7	\$5	43	\$5	117L7	\$6
6F5	\$5	6U5	\$8	12AS7	\$4	44	\$4	117Z3	\$4
6F6	\$6	6U7	\$6	12SG7	\$4	45	\$7	117Z6	\$5
6G5	\$8	6V6	\$3	12SK7	\$4	46	\$5		
6H6	\$3	6X5	\$3	12SQ7	\$4	47	\$8		
6J5	\$4	7A5	\$4	14A7	\$5	50	\$8		

OLD TIME RADIO SHOWS ON CASSETTES

SEND ONE FIRST CLASS MAIL STAMP FOR OUR SHORT LIST OF PROGRAMS. HUNDREDS ARE LISTED IN OUR CATALOG No. 18A.

Amos & Andy, Fibber McGee & Molly, Inner Sanctum, etc.

THE ENCYCLOPEDIA OF ANTIQUE RADIO

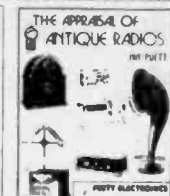
PUETT ELECTRONICS

IT'S NEW

radio ideas

PUETT ELECTRONICS DIRECTORY ANTIQUA RADIO SERVICES

THE ENCYCLOPEDIA OF ANTIQUE RADIO \$7.95 POSTPAID SIMILAR CONTENT, BUT COVERING SETS OTHER THAN THOSE INCLUDED IN *Vintage Radio* AND *A Flick Of The Switch*.
THE DIRECTORY OF ANTIQUE RADIO SERVICES \$3.00 POSTPAID - SERVICES & SOURCES THROUGHOUT THE U.S.A.



SCHEMATIC DIAGRAMS

WE HAVE SCHEMATICS FOR NEARLY ANY ANTIQUE RADIO RECEIVER! Send name of manufacturer & model number of set - \$1.50 postpaid. Without name of mfg. and/or model No. we will search our files for \$3.00, but we must have a sketch of top of chassis showing type numbers and location of all tubes and location of front panel & dial.

APPRAISAL

WE OFFER THOROUGHLY DOCUMENTED APPRAISALS FOR INSURANCE PURPOSES. Many insurance companies offer special antique insurance policies which cover items which have been properly appraised. SEND ONE FIRST CLASS MAIL STAMP FOR OUR APPRAISAL BROCHURE.

BOOKS, BOOKLETS, LISTS & DATA

- Booklets listed in (1) thru (5) below are \$2. each, 3 for \$5., 4 for \$6., or 5 for \$7.
- (1) The Acquisition Of Antique Radios by J. W. F. Puett
 - (2) The Complete Restoration of Battery Powered Antique Radios by J. W. F. Puett
 - (3) The Complete Restoration of AC Powered Antique Radios by J. W. F. Puett
 - (4) When Was That Old Tube Made? by James R. Wilkins
 - (5) Antique Radio Tube Substitution by J. W. F. Puett
- (6) SILVER GHOSTS by J. W. F. Puett (history of E. H. Scott) \$8.95
 - (7) THE CLASSIC RADIO COLLECTORS HANDBOOK by J. W. F. Puett \$10.00
 - (8) THE APPRAISAL OF ANTIQUE RADIOS by J. W. F. Puett \$4.95
 - (9) The PUETT ELECTRONICS Super Antenn - Ground System Plans \$2.00
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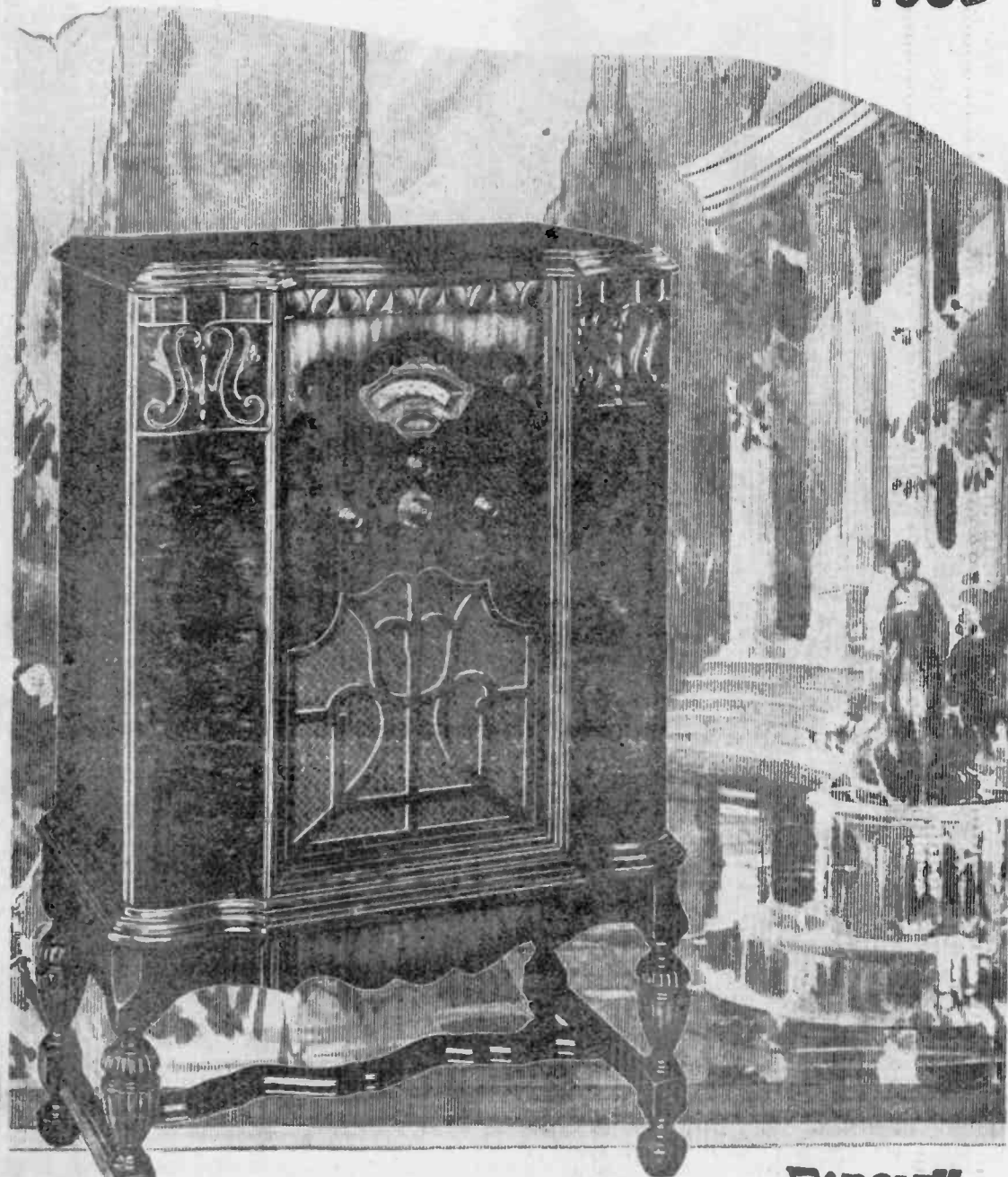
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