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THE NEWSPAPER FOR
THE HOBBYIST OF VINTAGE
ELECTRONICS AND SOUND

THE HORN SPEAKER



SHORT WAVE CRAFT for APRIL, 1933

The LINCOLN R-9:

A New 9 to 200 Meter S-W Super-het Using 11 Tubes

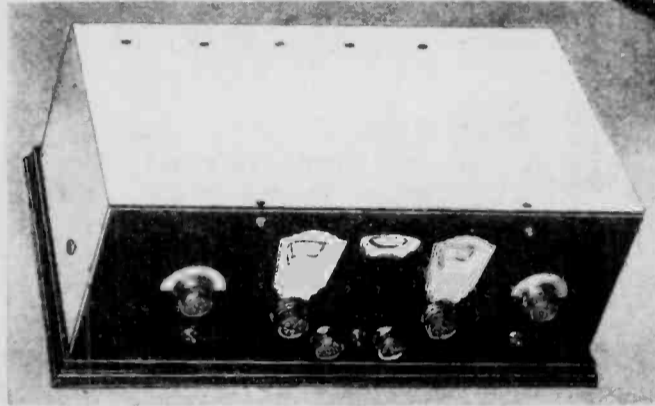


Photo above—business-like appearance of the newest Lincoln off-spring, the R-9 short-wave super-het, with 11 tubes.

Interesting new 11-tube short-wave super-het has range of 9 to 200 meters; 8 tuned circuits; A.V.C.; 45 push-pull output; Visual tuning meter and C.W. beat oscillator.

● OWING to the increased demand in both commercial and broadcast listeners fields, many months of development work have been put on the new Lincoln R-9 receiver, designed to register wavelengths from 9 to 200 meters. While the field has been well covered with commercial types of short-wave receivers and combinations of short-wave and broadcast, yet the strictly short-wave receiver design has not had the attention that a few of the receivers ranging from 15-550 meters have had.

Leaving out the aspect of the commercial requirements of this type of receiver, the ever increasing number of interesting short-wave phone stations and the ever increasing power of these stations are opening up a new field of intense interest and enjoyment to the broadcast listener.

The average installation of the all-wave receiver is made in the living room or library of the home and in a

great many cases Mr. Radio Fan is confronted with a dozen arguments as to whether the household listens to an airplane transmission, amateur phone, trans-oceanic messages, foreign broadcast, or to some good "chain" station in the 200-550 meter broadcast band.

In view of the fact that the majority of homes have a good broadcast receiver, many ardent fans have requested a strictly short-wave receiver, which may be hidden away in the den behind locked doors, so that Mr. Fan can have full enjoyment of the one hundred and one interesting transmissions found in the wide band of high frequencies ranging over eighteen to nineteen thousand kilocycles, while friend wife, perchance, listens to her chosen program in the broadcast band in peace.

With this thought in mind, and due to the large demand for this type of receiver, the Lincoln R-9 has been developed to a high degree of perfection, utilizing the full knowledge and wide experience gained in the development of the high-powered DeLuxe receivers. Every desirable feature of the regular DeLuxe receiver is applied in the new R-9 with the exception that the "broadcast" coverage (200 to 550 meters) has been eliminated, and every feature

desirable for both short wave phone and C.W. reception has been added.

Silver-Contact Band Selector-Switch

The general plan of the R-9 employs the proved design of the DeLuxe SW-33, utilizing the silver-contact selector-switch, which independently selects the desired inductances for group frequency range. The grouping of the frequencies is as follows: Starting from the lower wave end—

- 1st position 8.8 meters to 16.3
- 2nd position 14.6 meters to 27.7
- 3rd position 27.4 meters to 51.6
- 4th position 48.2 meters to 99.
- 5th position 86.2 meters to 216.

The circuit uses an intermediate frequency amplifier of three powerful stages, with tuned first detector stage. The coils are of Litz wire; eight tuned circuits are used. The last I.F. stage is of balanced-grid push-pull construction, feeding into the Wunderlich tube (2nd detector), the output of which feeds into the transformer coupled 56 first audio stage and through large transformer coupling into two 45 push-pull output tubes. Tubes used are 4-58; 3-56; 1-Wunderlich; 2-45; and 1-80.

Due to the remarkable action of the Wunderlich tube, perfect automatic

volume control is had by controlling the complete I. F. amplifier. This feature can be eliminated and the set will work without A.V.C. by manipulating a switch on the front panel.

"C.W." Reception Provided for

A beat oscillator is employed for reception of "C.W." signals; this is also operated by a switch on the front panel. Full indication of signal is had with the meter mounted in the center of panel, allowing accurate tuning to the exact center of the carrier wave and also indicating unmodulated carriers which can be tuned with perfect accuracy. This valuable feature is of paramount importance, as many stations are "standing by" temporarily and would be entirely overlooked without this method of location.

Two dials are employed, the one to the left being the main tuning dial and the one to the right for band-spreading, which is effective on all frequencies. In commercial work, where the operator only works a specified band of frequencies, this band-spread dial is very desirable, allowing wide separation on the dial.

Sensitivity and Volume Controls

The regulation of sensitivity and volume is identical with the Lincoln DeLuxe SW-33, and it is one of the most satisfactory systems for the broadcast listener as well as the commercial operator. In order to get distance in the conventional type of receiver, one is required to advance the sensitivity control to a point where heavy noise and signal can be heard loud enough to disturb the whole neighborhood; while in the new Lincoln system, the sensitivity control can be advanced to a maximum, giving power to reach any distance and the volume control can be at minimum, with speaker volume only loud enough to be heard a few feet away from the speaker. This system also allows absolutely silent tuning by the use of the signal indicator.

The R-9 model is of the table mounting type, having a heavy metal removable cover and heavy metal front panel. The chassis is mounted on a wood base with moulding at bottom, and the whole unit is attractively finished.

A separate power pack is used, identical with the large DeLuxe all-wave model, together with a dynamic speaker. A head phone jack is incorporated.

Great Volume Available

The tremendous amplification and the undistorted volume possible in both the R-9 and the DeLuxe model brings weak signals up to tremendous output volume if desired. The Lincoln laboratory happens to be located practically in the center of the largest medical area in the United States, composed of hospitals and medical schools, with a terrific barrage of diathermy, X-ray and other high frequency equipment. Yet, in spite of this interference, signals from foreign stations are brought in with any desired volume, and all equipment is tested directly on these signals.

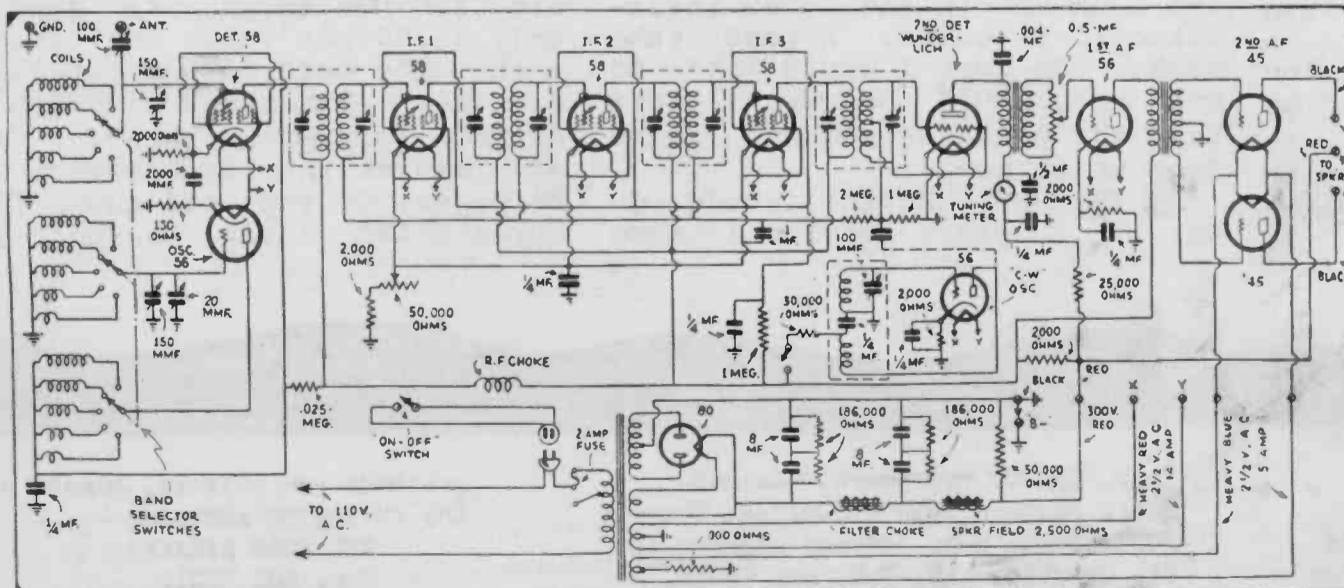


Diagram of the new Lincoln R-9 Superheterodyne, especially designed for reception in the short-wave spectrum from 9 to 200 meters. Switches select the proper coils for each band.

letters

Dear Jim:

Enclosed is my check for \$12.00 for a two year renewal. I sure enjoy your newspaper -- keep up the good work.

The wife and I enjoyed the A.W.A. National Convention in Canandaigua. The flea market and auction were especially interesting for me.

The exhibits in the A.W.A. Museum are really fantastic for lovers of antique radios. Also the Ford Museum in Dearborn Michigan has a good display of old radios.

Your truly,
E. A. Heckler
WA4NWA

Dear Jim:

In his letter in your October 1980 issue, George Friedrich advocates telling owners of old radios that they "aren't worth too much" so that they can be purchased "for a pittance." He goes on to advocate getting "the available supply into our collections" so that "we can sell our excess to antique dealers for what they are really worth."

I'm sure that most of us would like to pay the lowest possible price for an old radio. And if we sell one, that we would like to get -- if not the highest -- at least a reasonable price for it.

However, for many of us too, the objective of our collecting is preservation, not the increase of our personal wealth.

And the plain fact is that old radios are more likely to be preserved by their owners if they know that the radios are worth more -- not less. If a radio is perceived to be of low value, it is more likely to be junked -- and lost forever to collectors who are preserving these historic artifacts for future generations.

And perhaps those owners of old radios, who have lovingly cared for them over the years so that we might enjoy them, ought to be adequately compensated for their efforts.

Like the rest of us, Mr. Friedrich has been getting a free ride the many years in which he picked up old radios at low prices. So neither he nor the rest of us should cry to hard now that we have to pay to get on the bus.

Cordially,
Carleton Sarver
256 West 88th Street
New York, NY 10024

Dear Jim:

Is there any way to identify radiotubes once the identifying number has been rubbed off or in some cases such number was never on manufactured-for-replacement only tubes?

I would like to see an in-depth article about old radio tubes including detailed instructions on how to identify such tubes and their uses. What, for example, is the difference between a tube which just has a number as 50 and one which has 50AS or GT or any of the other common markings?

Before they have disappeared from the scene forever, I wish some of the old-time radio experts who started with the business could be induced to write about what they know. I have a fairly good radio book library but these books have nothing about such things as I am describing.

I also would like to see articles on such things as radio tube substitution. Again, I have books on the subject but they dip into TV tubes so much to be almost valueless to me. And again, I have the start of a good tube collection but some of the later ones may be for TV only and I am not in the least interested in TV tubes. A good tube book, the way I would like to see one, would be much larger than the pocket-size ones I have seen up to now.

THE HORN SPEAKER would do us all a great service if some

of the old radio experts could be encouraged to write for publication. Also, it would be a real service if such articles could be run in each issue of your publication.

I know of two such people but one is too busy to write and the other is too old. There must be many who know the field thoroughly and still have the time and drive to produce some interesting reading. We can read THE HORN SPEAKER advertisements and write back and forth to each other for information but how much better it would be if at least one such article were carried in each issue. Short, down-to-earth facts would not need to take up a great deal of space.

It is time someone generates some new information in printed form in our hobby field. This is not to deny that some of the literature advertised is good and worthwhile but we need some new titles which are slanted to our hobby.

P. S. Picked up a Radiola 60 table model at a garage sale recently for \$10.00. Cleaned it up and it worked.

Sincerely,
John W. Hamilton
1405 W. 9th.
Stillwater, OK 74074

EDITOR...We want to encourage all old radio experts to write articles about early radios. Of course, THE HORN SPEAKER is willing and eager to print such articles for its readers.

club news

BARGAIN CLUB

The Mid America Antique Radio Club has raised its dues to only \$5.00 per year. Get this -- the dues were only about \$2.00. This club has a club publication for November 1980 full of interesting information in 24 pages. To top off these features MAARC never charges 10%

POSTAL IDENTIFICATION STATEMENT

The Horn Speaker (USPS 956120) is published monthly, except July and August by Jim Crenshaw, 9820 Silver Meadow Dr., Dallas, Texas 75217. Subscription rates are \$7.00 per

year, \$12.00 two years. Second-class postage paid at Dallas, Texas. POSTMASTER: Send address changes to The Horn Speaker, P.O. Box 53012, Dallas TX 75253.

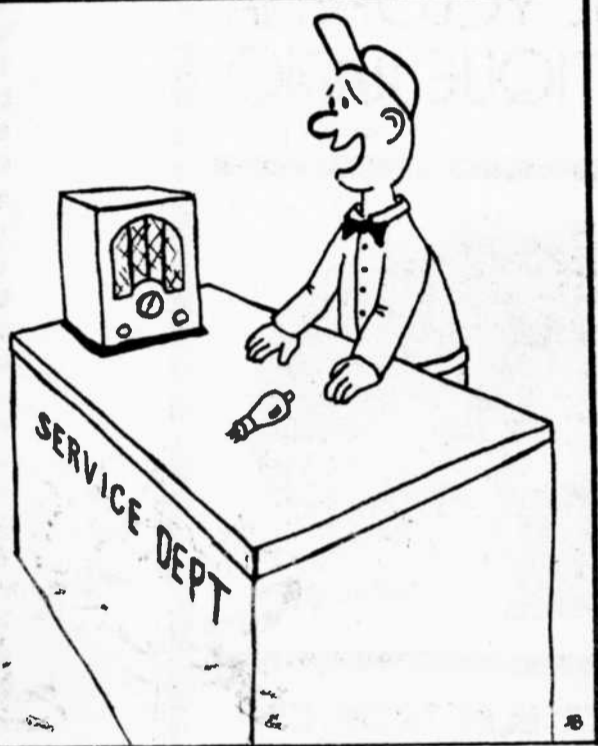
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ees for selling items at auctions, this club does not charge anything.

Interested? Write to: Mid America Antique Radio Club, 4031 West 97th Terrace, Overland Park Kansas 66207.

SHOP TALK



LISTENING TO OLD RADIO PROGRAMS by Ron Boucher

Well, you finally got a few extra moments to listen to that new tape, or record of old radio broadcasts that you bought last week. Great. So you put it on the player, sit back and imagine yourself going back into time, 30 years or so.

But there's one thing very wrong here, the sound is coming out of your transistorized player and your old cathedral radio is sitting up on your shelf, turned off. It would be a little bit more realistic if you were listening to the old program over the old radio.

You may be able to play these recordings through your antique radio without having to modify it and by using something that you may already have on hand or acquired at an auction or flea market for very little.

Most signal generators used in radio work have a provision for external modulation so you can feed a signal into the generator and have it come out with the radio signal that the generator puts out. All you really need is an old signal generator.

You merely tune the radio to a clear spot on the dial then tune the generator till you hear it on the radio.

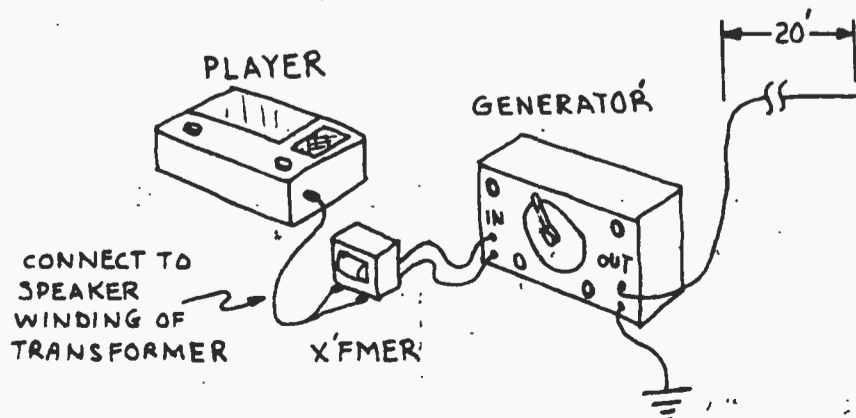
In my set-up I hooked up the hot side of the RF output of the generator to a 20' length of wire string along the wall. The ground side of the RF output I ran to ground.

I connected the player from the earphone jack through an audio output transformer (the transformer found on the speakers of most old radios) into the "external modulator" jack on the generator. The result was that one could pick up the recording from the player, on a radio, anywhere in the house.

A diagram of the set-up is shown in the illustration. It may not be the ultimate set-up; I just kept experimenting until I got good results.

If you latch onto an old generator and you are doubtful as to whether it will be any good, just remember by changing the old capacitors (like you do in restoring an old AC set) it will probably work just fine.

Ron Boucher
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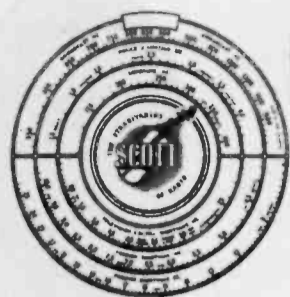
Radio News for September, 1922



Just about everything you'll want to know about records is listed in the American Premium Record Guide, Identification and Values of 78s, 45s and LPs, written by L.R. Docks. The 700-page book lists more than 50,000 recordings and is available for \$9.95 from: L.R. Docks, P.O. Box 13685, San Antonio, Texas 78213, telephone: (512) 341-0978.

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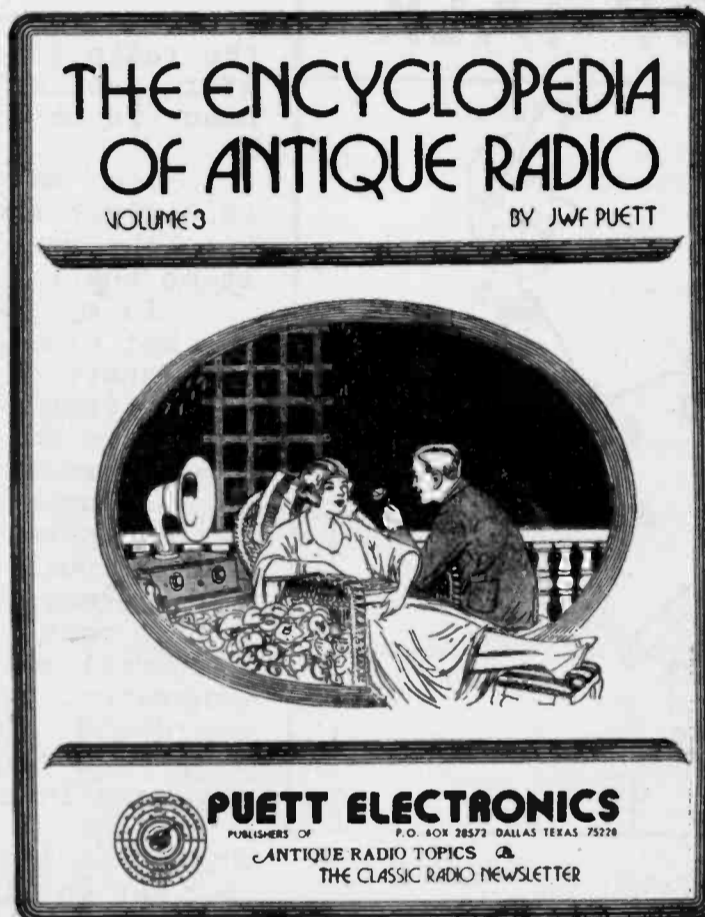
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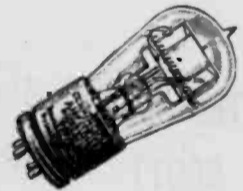
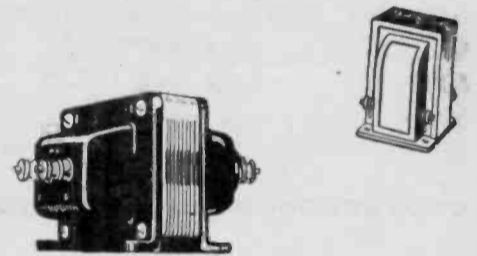
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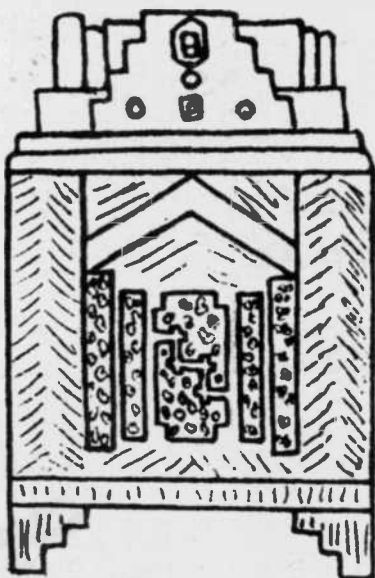
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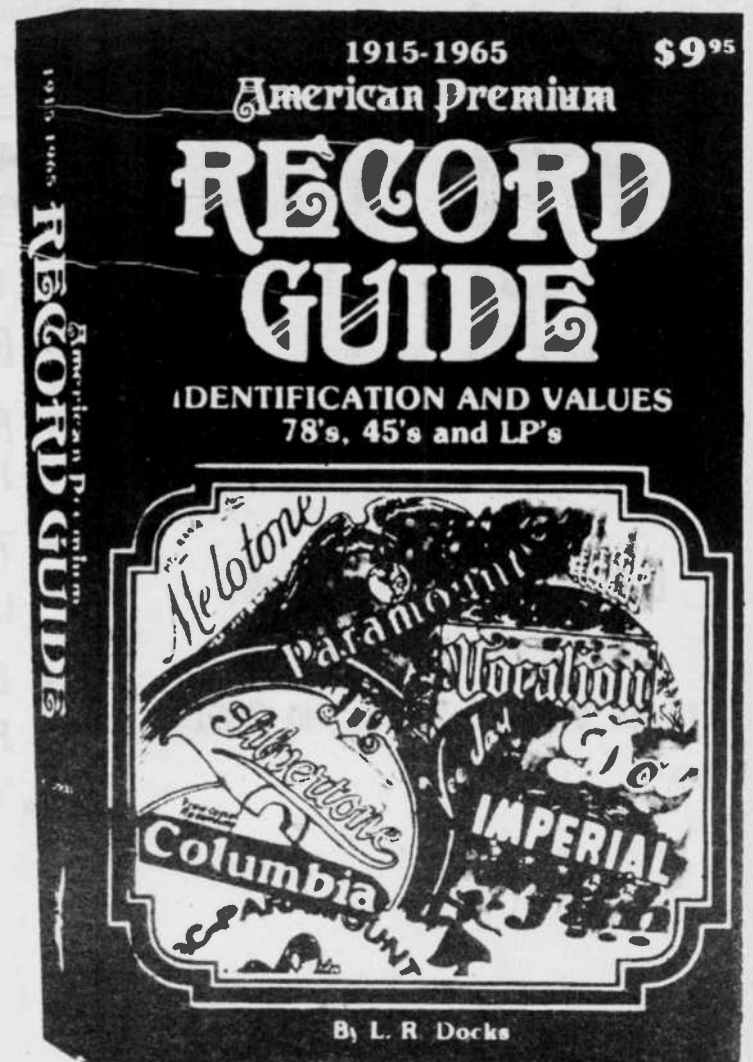


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1. Title of publication: THE HORN-SPEAKER.
2. Date of filing: Oct. 1, 1980
3. Frequency of issue: Monthly except during July and August.
4. Location of known office of publication (street, city, county, state, zip code): 9820 Silver Meadow Dr., Dallas, Texas 75217.
5. Location of the headquarters or general business offices of the publishers (Not printers): 9820 Silver Meadow Drive, Dallas, Texas 75217.
6. Names and addresses of publishers, editor, and managing editor: Publisher: Jim Cranshaw, 9820 Silver Meadow Drive, Dallas, Texas 75217. Editor: Jim Cranshaw, 9820 Silver Meadow Drive, Dallas, Texas 75217. Managing Editor: Jim Cranshaw, 9820 Silver Meadow Drive, Dallas, Texas 75217.

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E. TOTAL DISTRIBUTION (Sum of C and D)	845	901
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- 7) Hawkins "Electrical Guide- 1914-16 All 10 vol. Good \$20
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- 12) National Co. auto radio, early 30's screen grid, does not incl amp/spkr, gd. \$20
- 13) Mitchell Lullaby halamp radio, almost identical to Automatic Radio unit on page 72 Flick of the Switch, gd cond, works Intermittently. \$45
- 14) Philco 1201 radio/phone, most unusual unit, shown in Bing Crosby ad on page 125 Flick of the Switch, gd cond, compl. Needs thorough clean, hums. \$45
- 15) Early Raytheon transistor portable, 8TPI, excellent tan cowhide, plug-in CK series transistors, AM. Unknown alc cond. \$15
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- 17) Hallcrafters Continental AM/SW tabl. set, fair. \$7
- 18) RCA 45X12 white plastic refrigerator radio, tiny, gd cond, unk alc. \$10
- 19) Philco 46-420 white plastic refrigerator radio, gd, cond, works. \$10
- 20) Scott 310 postwar fm tuner, hi-fi classic, gd cond, working. \$35
- 21) Bogen DB10 PA amplifier, cover missing, works. \$10
- 22) Automatic Radio "Tom Thumb" car radio, radio unit only, no spkr, gd. \$10
- 23) T.R. Metrodyne CP0 40's 3 tubes, fair. \$5
- 24) Brada 250 Sat Analyzer & Tube Tester, 1931 w/book, adaptors, etc. vy gd. \$25
- 25) Supram 99 Tub. tester/VOM set 1935-40 w/charts, handl. missing, vy gd. \$20
- 26) Weston 280 DC voltmeter, small, vy old, ok. \$7
- 27) Old style tester for lamps, fuses, set pr-war, unknown brand, gd cond. \$10
- 28) Weston 692 RF Oscillator set 1930 vy gd, w/all coils, unknown alc. \$30
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- 31) Lambda regulated pwr supply Mod 26, 100-200 vdc 100 ma, 6.3 vac, working. \$30
- 32) Weston 57, old style 10" diam panel meter, cast brass, vary ornate, ACV, ACma. \$25
- 33) Weston 160 old style 10" diam panel meter, cast brass, vary ornate, AC ma. \$25
- 34) R-adrite 245A Tub. & Sat Tester, w/book, adaptors etc, 3 meters, set 1930 vg. \$25
- 35) Supram 589A tub. tester, set 1945, w/chart, working. \$20
- 36) Weston 562 Voltammeter set 1930 vy gd, seems more or less functional, w/instr. \$30
- 37) Wripht DeCoster Serviceman's speaker test set. Suitcase unit w/built-in multi-tune-dance spkr, univ-resal field coil, univ-resal output transformer designed for spkr, amp, PA servicing. Needs some reasonable level of restoration. Hard to find piece. w/instr. set 1930 unknown alc cond. \$50
- 38) Weston 785 Industrial circuit tester (VOM) working, wood case rough, inside ok. \$30
- 39) Windup portable 78 rpm phone "Camp Phone" vy gd, working, wood case. \$35
- 40) Windup portable 78 rpm phone "Outing Talking Machine Co" working, gd cond except veneer on bottom is loose. \$35
- 41) Victor VV-VI early windup phone, inside horn, tabl. top model, working, needs minor restoration, wood case vy gd. \$75
- 42) Zenith vy unusual record changer, two in one, early post war unit designed to play 78 and 33 records, but with two separate tone arms, Cobramatic style. \$25
- 43) Zenith early stereo changer, Cobramatic Hi-Fidelity Stereophonic Cobramatic. \$10
- 44) Headphones, box of asstd units, Brands, Frost, etc. unknown everything. \$20
- 45) Lunds & Northrup Standard EMF Bridge (source), typical L&N quality apparatus, mahogany case, bakelite panel, huge circular multi-turn slidewire, real nice. \$75
- 46) Huge early Lunds & Northrup Wheatstone Bridge. Hard rubber panel (16 X 22) covered with heavy brass contacts and test keys. Connection plugs included. Mahogany case. A little cleaning and you've got a real showpiece. \$100

- 1) Mod. 42 Good, pwr pack cover missing-----\$15
- 2) Mod 55C V-ary gd, nice clean set-----\$25
- 3) Mod 55C Good, condenser cover missing-----\$20
- 4) Mod 55 The showpiece 55C used to be easy to get, the case version (55) never was. Good condition.-----\$30
- 5) Mod 40 V-ary good, nice clean set-----\$25
- 6) Mod 40 Good, complete-----\$20
- 7) Mod 40 Good, needs condenser balt-----\$20
- 8) Mod 42 Good, complete-----\$20
- 9) Mod 44 Good, complete-----\$20
- 10) Type R A&B eliminator for batt sets, v.g.-----\$15
- 11) Type 32 speaker, good, working-----\$15
- 12) Type 3 speaker, very good, working-----\$20
- 13) Type 33 speaker, very good, working-----\$20
- 14) Type F4A speaker, very good-----\$20

↑ PATWATER KENT A.C. ↑

TOM RUTHERFORD & STEARNS AVE
TOWNSEND, MA. 01469

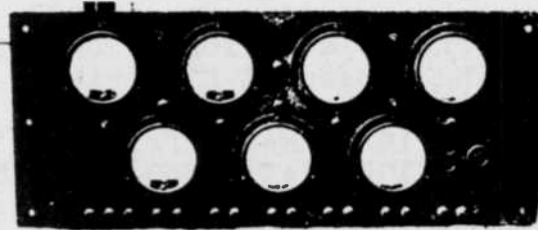
PRICES ON WRITTEN MATERIAL INCLUDE POSTAGE
EQUIPMENT SHIPPED CHARGES COLLECT

- 1) Pamphlet "Quality Amplification" mic 20's r.c.-----\$3
- 2) Pamphlet "How to build G.R. Rectron B eliminator and Pwr Amp. mid 20's exc-----\$3
- 3) Bulletin 936 1935 "Parts & Accessories, 48 p.s, vy gd.-----\$5
- 4) Bulletin 10 1933 "Frequency Measurements at Radio Frequencies, 80 pgs, exc-----\$8
- 5) Pamphlet "Quality Condensers" 20's, vy gd.-----\$2
- 6) Amateur Bulletin 934 1930 vy gd 8 pgs-----\$3
- 7) Bulletin 925 lat. 20's 32 pgs parts, vy gd-----\$5
- 8) Amateur Bulletin 935 30's 12 pgs gd-----\$3
- 9) Bulletin 931 Parts & Equipment 1928 36 pgs vy gd.-----\$8
- 10) Bulletin 915 1923 2 pgs vy gd-----\$2
- 11) Bulletin 914 1923 20 pgs vy gd-----\$5
- 12) G.R. binder containing Bulletins 101, 203, 204, 301, 302, 401, 403, 502, 702, 703, 904, 905, 906. Total of 56 pgs, all 1920, vy gd to exc.-----\$20
- 13) G.R. binder containing Bulletins 108, 109, 208, 209, 210, 306, 408, 409, 410, 711, 712, 713, (all 1925) 714 (1924) 716, 717, 718, 801 (1926) 924 (lat. 20's) Total of 106 pgs. vy gd to exc except binder fair.-----\$20
- 14) Manual 1952C Megohmmeter vy gd.-----\$3
- 15) Manual 1650A Impedance Bridge vy gd-----\$3
- 16) Manual 736A Wave Analyzer vy gd-----\$3
- 17) Manual 805C Standard Signal Generator vy gd-----\$3
- 18) Manual 805D Standard Signal Generator vy gd-----\$3
- 19) Manual 1608A Impedance Bridge vy gd-----\$3
- 20) Manual 1230A DC Amplifier and Electrometer vy gd-----\$3
- 21) Catalogs Q,R,S,T,U, and 1973, all pretty good-----\$4
- 22) Catalog K Postwar Supplement 1945 vy gd-----\$5
- 23) Catalog J 1936 vy gd-----\$8
- 24) Catalog H 1935 vy gd-----\$8
- 25) Catalog F parts 1 & 2 & seven supplements 1931-32 vy gd-----\$10
- 26) Catalog A 1916 G.R.'s first vy gd-----\$25
- 27) G.R. Issued History of General Radio 1915-65 32 pgs exc.-----\$8

GENERAL RADIO EQUIPMENT ↓ AND LITERATURE ↑

- 1) 759 Sound Level Meter, complete, vy gd. unknown l.c. cond. est. 1935-----\$20
- 2) 1604B Comparison Bridge (LC) vy gd, working. est. 1955-----\$45
- 3) 561D Vacuum Tube Bridge, vy gd, unknown l.c. cond. est 1940-----\$75
- 4) 783A Output Power Meter (AF 0-100 W) vy gd, working, est 1960-----\$35
- 5) 106G Standard Inductance (1.0 mh) vy gd, working, est 1935-----\$15
- 6) 1551A Sound Level Meter, mike & cover missing, otherwise vy gd, unk l.c-----\$15
- 7) 358 General Purpose Wavemeter, est 1930, vy gd, compl w/ box, cal chart-----\$20
- 8) 558P Amateur Band Wavemeter, est 1930, vy gd, compl w/ box, cal chart-----\$25
- 9) 247W Wavemeter, est 1926, fair to gd, complete-----\$12
- 10) 107G Variable Inductor, gd, est 1935-----\$10
- 11) 107L Variable Inductor, vy gd, est 1935-----\$10
- 12) 107M Variable Inductor, vy gd, est 1935-----\$10
- 13) 804C HF RF Generator (8 mc-330 mc) est 1955, vy gd, working, w/manual-----\$75
- 14) 602D Decade Resistance Box, est 1935, vy gd, working-----\$15
- 15) 102K Decade Resistance Box, est 1930, vy gd, working-----\$20
- 16) Class C-10 Secondary Freq Standard & measurement System consisting of:-----\$125
 - 692B 10 kc Multivibrator est 1935, vy gd, unknown l.c.----- (s.p. pr.-----\$20)
 - 692B 50 kc Multivibrator est 1935, vy gd, unknown l.c.----- (s.p. pr.-----\$20)
 - 616 D Heterodyn Freq Mtr est 1935, vy gd, unknown l.c.----- (s.p. pr.-----\$40)
 - 675P Pi-zo Oscillator, est 1935, vy gd, unknown l.c.----- (s.p. pr.-----\$40)
 - Distribution Panel, est 1935, vy gd, ok,----- (s.p. pr.-----\$10)
 - 1107A Interpolation Oscillator, est 1945, vy gd, unknown l.c.----- (s.p. pr.-----\$40)
 - 539B Variable Air Condenser, est 1915 vy gd-----\$10
 - 583A Output Power Meter (AF 0-5W) est 1935, vy gd, unknown l.c.-----\$20
 - 546C AF Microvoltmeter (est 1955-60) vy gd, unknown l.c.-----\$15
 - 726A Vacuum Tube Voltmeter est 1935, vy gd, unknown l.c.-----\$35
 - 650A Impedance Bridge, est 1915, vy gd, unknown l.c.-----\$45
 - 736A Wave Analyzer est 1935, needs a couple of knobs, pd, unknown l.c.-----\$35
 - 713B Beat Frequency Oscillator (AF generator), needs a couple knobs, gd, unk-----\$35

JEWEL MULTIMETER TEST SET



A real jewel, the 1930 serviceman's piece of dream equipment. Seven high quality meters in a 30" wide panel with binding posts, range switches. Meters measure high and low AC volts, high and low DC volts, DC current, ohms, and capacitance. All appear intact and working (accuracy not checked). Unit needs a little cleaning and paint touchup. Very rare piece. \$200.

FOR SALE OR TRADE



FOR SALE OR TRADE

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

TELKOM ROARING '20's DECORATOR TELEPHONE



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

List ads - 35¢ per line

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

NEW ROARING 20'S DECORATOR TELEPHONE. ROTARY DIAL AND RINGER WITH VOLUME CONTROL. FCC APPROVED, MODULAR PLUG. COLOR: IVORY, ORDER TODAY. \$89.95 POSTPAID. KEITH ELECTRONICS, 209 BELLEFONTE AVE., LOCK HAVEN, PA 17745 *****
 FOR SALE OR TRADE. HAVE SEVERAL CATHEDRAL RADIOS. They are in good to excellent condition. Will trade for battery type radios only. Ralph G. Maddox, Vali-HI Farm, Purgitsville, WV 26852. Tel. (304) 289-3069.

BACK ISSUES

ORDER NOW!

All 10 for 1073...\$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: RCS-728 power supply now in 9th year of manufacture. Do you have yours yet? Send SASE for spec sheet to: Gary Schneider, 6848 Commonwealth, Parma Hgts., 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..

RADIO TUBES

OLD TUBES
 Box 201A
 Lookout Mountain, Tenn.
 37350

LIST VALID
 THROUGH 1980

Proprietor
 Walter Smartt
 (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	A01	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	-
BH(bb)	10	-
BR(bb/ob)	15	-
VT2(bb/ob)	15	-
VT4C	10	-
hb= 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 3KP4 in 3rd Pilot TV, but has green fluorescence) \$50.00

231D (replaces UX199, in original box) \$12.00

FOR SALE OR TRADE

FOR SALE OR TRADE

FOR SALE OR TRADE

Phonograph

PORTABLE GRAMAPHONE 78 RPM - one owner, make unknown - case imitation leather in good shape - needs new carrying handle - motor and turntable in excellent shape. Playback head and windup handle are removeable and fit in cavity inside case - speed control on turntable reads slow-lento and fast- presto container full of hood needles - measures 14" x 12 3/4" x 5" deep - asking \$100.00 D. A. Bowman, 1855 Hopkins Road, Getzville, NY 14068. Phone (716) 688-6697.

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 catalog reprint. VT control, crystal, radios, transmitter, etc. 16 pages illustrated, \$2.95 ea. plus .50 handling mailing. Cecil Bounds, Pine Springs Rte. Carlisbad, NM 88220.

FOR SALE: AUTHENTIC REPLICAS: FRONT PLATES FOR AK VARIO COUPLERS, VARIOMETERS, TYPE 11 TUNER, DIALS, KNOBS, POINTERS, BINDING POST NUTS, PUSH BUTTONS, BELT DRIVE PULLEYS FOR AK AND MUCH MORE. SASE FOR LISTINGS. K. PARRY, 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 Bellefonte Ave., Lock Haven, PA 17745. Phone (717) 748-7163

FOR SALE: BATTERY, A.C., RADIOS, service manuals, literature. S.A.S.E. for list. Raymond Thompson, 7422 Cherry Tree Drive Fulton, Maryland 20759.

SUPREME DIAGRAM MANUALS, Radio-Television, useful 15 volumes, regular \$56.00, special only \$19.95. Beitman, 1760 Balsam, Highland Park, IL 60035.

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.



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

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 Chas. Fowkes, WB4BOM, 4903 29th Ave. W., Bradenton, FL 33505. Tel! (813) 792-4049.

RADIOLA VIII (EXCELLENT) \$80.00 Grebe cone speaker (good) \$28.00 One tube homebrew (excellent) - with Crosley book condenser \$25.00. Zenith table model # 6D644 (excellent) \$20.00. Zenith table model # 705 (good) \$30.00. Emerson table model # U6D (excellent) - "semi-cathedral". RCA model UZ1325 horn (excellent) \$55.00. Webster "B" eliminator (good) (B-H rectifier) \$8.00. RCA model 103 speaker (good) \$15.00. RCA model 100 speaker (excellent) \$20.00. Brandes cathedral shaped speaker (excellent) \$20.00. All battery sets without tubes, AC sets with tubes. Shipping extra. Polaroids 50 cents each. VINTAGE RADIO SERVICING (Ron Boucher), 376 Cilley Rd., Manchester, NH, 03103, (603) 669-1698.

RADIO

FOR SALE: BATTERY SETS, TUBES, BOOKS, MAGAZINES, AUDIOS. SASE FOR LIST. WANTED: DIAL POINTER FOR A CROSLY 51SD, 2" ROUND BUZZER OR TOP FOR ONE. TRADE KENNEDY 220 CABINET FOR A GREBE CR-9 CABINET. ALSO HAVE A-K PARTS FOR SALE. BOB, W6ME, 4178 CHASIN STREET, OCEANSIDE, CA 92054

ZENITH 1920s MODEL 11E. \$350.00 Also Zenith Super. Grebe CR9. Much more. List \$1.00. Arthur, P.O. Box 259, Merlin, OR 97532.

RIDER'S RADIO, TV., AND PA MANUALS, EARLY RADIOS, SPEAKERS, TUBES, etc. SASE to Bob Husted, 280 E. Boca Raton Rd., Boca Raton, FL 33432 (305) 391-5171.

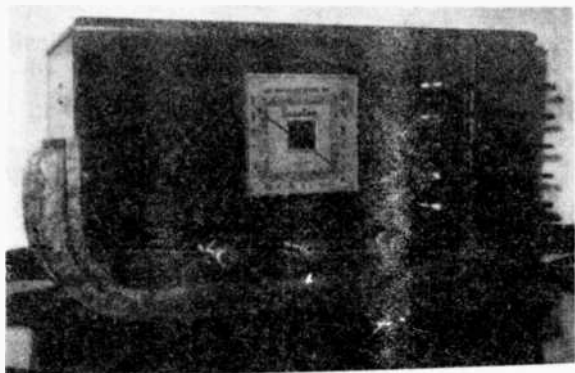
GROUP OF 1920s RADIO PARTS, Variometer, Radio L coil Tuning condensers. Interstage transformers. All for \$150.00. Send \$1.00 for photo of it. Arthur, P.O. Box 259, Merlin, OR 97532.

1932 VISONOLA by Sparks Withington, the orig. home entertainment center, featuring radio phono 78/33 rpm, 16mm movie projector & screen, all in 1 cabinet. Used for talking movies, with a sound-synchronized between phono at 33 rpm & projector. Screen in lid of cabinet used with a mirror to reflect images. In excel. orig. working, cond. with owner's & service manual, no talking records or film. \$2 for pics. A "Visonola" was once owned by Clark Gable. Best offer over \$2,500. W.R. Fiedler, Rt. 2, Box 2489, Oroville, CA 95965.

2 ATWATER KENT RADIOS: model 55 with round speaker-\$195.00 and model L type chassis-without speaker-\$149.00, also old R.C.A. radio with separate speakers - \$195.00. Deane Neitzel, Rt. 3, Box 10, Watertown, WI 53094. Phone (414) 261-2915.

MAIL AUCTION Many good items, selling out part of my collection. SASE for list. Best mail bid before December 1st takes it. Rosenthal, 507 S. Maryland Ave., Wilmington, DE 19804 (no calls).

WANTED



COLORED MIRRORED RADIOS (blue, peach and green) wanted by obsessed collector. I'm also interested in colored mirrored clocks. Can use any unusual items from art deco period, such as chrome radios, etc. Also wanted: Philco Predicta television sets, coin operated radios. Barbara Gorton, Box 1252, Dayton, OH 45401. (513) 253-5073 evenings.

WANTED: PHILCO T-9 TRANSWORLD, RCA STRATO WORLD, ZENITH ROYAL 1000, ALL WAVE EARLY TRANSISTOR RADIOS. WRITE ALVIN WEEKS, 3620 ALGONQUIN BLVD., ROCKFORD, IL 61102

NEED CHASSIS AND SPEAKER FOR AT-WATER KENT CONSOLE MODELS 72, 74, OR 76. JOHN BAYUSIK, 178 EASTSIDE DRIVE, WALLINGFORD, CT 06492.

WANTED: CANADIAN COLLECTORS' ATTENTION! CANADIAN GENERAL ELECTRIC, MONTREAL QUEBEC; ANY AND ALL RADIO ADVERTISING AND SERVICING LITERATURE UP TO 1948. I WILL COPY YOUR ORIGINALS, IF AGREEABLE. DARCY BROWNRIGG CHELSEA, QUEBEC, BOX 100 CANADA

WANTED

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

WANTED FOR DISPLAY: Scanning Disc Television, Patsy Hicken, WCSC Broadcast Museum, 80 Alexander Street, Charleston, SC 29402. (803) 723-8371

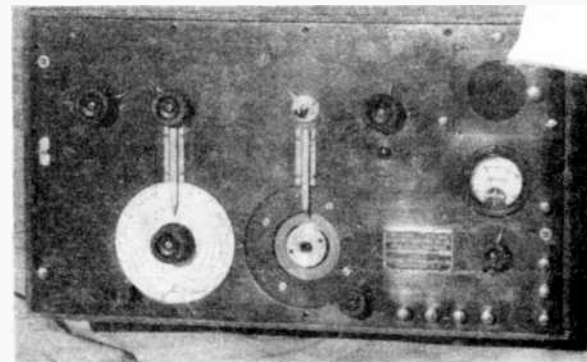
WANTED TO BUY - FEDERAL, AK-12, Norden Hauck or any pre 1920. Want a Leutz. Ray Garner, Route 10, Box 645 M-1, Fort Worth, TX 76135. Phone 237-1642, Cable GARCO.

WANTED: 1926 R.C.A. VICTOR Radiola with Automatic Electrola # V.E.-9-55, 1930 R.C.A. Radiola # 47 with Electrola, Brunswick Radioc Automatic Panatrop, Stromberg Carlson # 14 Radio with automatic phonograph. 1926 Victor automatic Electrola # V.E. 10-70. Columbia-Kolster Radio-phonograph # 9201 #940 # 902 etc., 1940 R.C.A. Radio-phonograph # V-201 and others from 1926-1938. David Galanek, 111 Eastwood Road, Bridgeport, CT 06606.

COLONIAL GLOBE "NEW WORLD" AC SET, ANY MARTI OR PATHE, EARLY ELECTRIC SETS, SPARTON MIRROR SET. ALSO EARLY CEILING AND TABLE FANS. HAVE EXCELLENT PHILCO 90 AND OTHER CATHEDERALS FOR TRADE. RICHARD CANE, 8391 N.W. 21 ST., SUNRISE, FL 33322.

CROSLEY BOOK CONDENSER. Rosenthal, 507 S. Maryland Ave. Wilmington, DE 19804.

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.

CROSLEY 59 CHASSIS, working or not; early odd-ball AC sets, Kellogg tube sets, Rogers batteryless sets & suitcase portables 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-F and RCA. Shearer Two-Way Theater Speaker. Cinaudagraph PE-27 and others. W-F 26A Multi-cell. Rayleigh Disc. Rola Horn Speaker. Rola "Pedestal" Cone Speaker. W-E 713-A H.F. Driver. Call (501) 777-6751. Jim Hunter, % Klipsch and Assoc., P. O. Box 688, Hope, AR 71801..

NEED CHASSIS AND SPEAKER FOR AT-WATER KENT CONSOLE MODELS 72, 74, OR 76. JOHN BAYUSIK, 178 EASTSIDE DRIVE, WALLINGFORD, CT 06492.

WANTED: PANELCOVERS for battery compartments on Zenith model VII Harl Pike, 314 Enrico, Sierra Vista, AZ 85635.

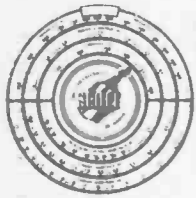
WANTED- 130 KC IF transformers dial AK627 Cathedral, Bob Nicholson, 3423 Long, Topeka, KS 66605..

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

WANTED: 6AD6 TUBE for Airline Radio, model 93BR-715B. Also wanted light hood for RCA Radiola 18. Gary Cappoen, Rt. 1, Box 131-A, Newberg, OR 97132. (503) 538-4362.

"Wanted:

MILITARY RADIOS BEGINNING WITH THE LETTERS "SS" - (EXAMPLE SSTR-1); MILITARY RADIOS BUILT INSIDE COMMERCIAL STYLE SUITCASES; SMALL MILITARY RADIOS; RS-6. MELTON, BOX 2037, OGDEN, UTAH - (801)-394-3290 .



PUETT ELECTRONICS

PUBLISHERS OF

P.O. BOX 28572 DALLAS TEXAS 75228

ANTIQUE RADIO TOPICS &

THE CLASSIC RADIO NEWSLETTER

LIST NO. 18A

NOVEMBER

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.
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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.

7A6	\$5	24A	\$6	50A5	\$4
7A7	\$5	25L6	\$4	50B5	\$4
7A8	\$5	25Z5	\$4	50C5	\$4
7B5	\$4	28Z6	\$4	50L6	\$4
7B6	\$5	26	\$7	51	\$5
7B7	\$5	27	\$5	55	\$6
7B8	\$5	30	\$5	56	\$4
7C5	\$4	32	\$5	57	\$4
7C6	\$4	34	\$5	58	\$5
7C7	\$5	35	\$5	70L7	\$6
6J7	\$5	7F8	\$7	35A5	\$5
6K5	\$4	7G7	\$5	35L6	\$4
6K6	\$4	7H7	\$5	35W4	\$4
6K7	\$5	7Y4	\$5	35Y4	\$5
6L5	\$5	10	\$8	35Z5	\$4
6L6	\$4	12A7	\$5	36	\$5
6L7	\$5	12AT6	\$3	37	\$5
6Q7	\$5	12AV6	\$3	38	\$4
6S4	\$4	12B7	\$5	39	\$4
6S7	\$5	12BA6	\$3	40	\$8
6SB7	\$4	12BE6	\$3	41	\$5
6SC7	\$4	12K7	\$5	42	\$5
6SG7	\$5	12Q7	\$5	43	\$5
6SJ7	\$4	12AS7	\$4	44	\$4
6SK7	\$4	12SG7	\$4	45	\$7
6SL7	\$4	12SK7	\$4	46	\$5
6SQ7	\$4	12SQ7	\$4	47	\$8
6S7	\$3	14A7	\$5	48	\$5
2A6	\$5				
3Q5	\$4				
3V4	\$4				
5A2	\$6				
5U4	\$3				
5Y3	\$4				
5Y4	\$4				
6A7	\$4				
6A8	\$5				
6C5	\$4				
6C6	\$5				
6D6	\$5				
6E5	\$8				
6F5	\$8				
6F6	\$6				
6G5	\$8				
6H6	\$3				
6J5	\$4				
0D3	\$3				
0Z4	\$4				
1A7	\$4				
1H5	\$4				
1L6	\$4				
1LA6	\$5				
1LD4	\$5				
1LD9	\$5				
1LE3	\$5				
1LN5	\$5				
1N5	\$5				
1R5	\$3				
1U4	\$4				
1U5	\$4				
1V	\$6				
2A3	\$8				
2A5	\$5				

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SCHEMATIC DIAGRAMS

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- (4) When Was That Old Tube Made? by James R. Wilkins
- (5) Antique Radio Tube Substitution by J. W. F. Puett

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S

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*5382*73*