## 

## Detectors



Nu. 60×12 Detector Stand is very stinale in construction, and very sensitive. Any of the substances used with dolectors may be used in this detector stand.
Nu. 611.12 Detector Stand only... \$1.00 Postage 11 c .

IMPROVED PEROXIDE OF LEAD DETECTOR. Our linpruved Peroxide of. Lead Detec-
tor is the result of much experimenting. The piston result of much experimenting. moves within our newly devised bushing.
inhe resistance spring inside the bushink The resistance spring lnside the bushing thrown to one side or another, when using the tetector, thus permitting of fine udjustment. All contacts as a result are perfectiy made, giving an extremeiy sen-
sitive instrument. The very serious and
annoying defects coman to several sitive instrument defects comanon to several
annoyling
types of Peroxide, of Lead detectors now types of Peroxide of Lead detectors now wh the market.
Whis detector is one of the most sensitive types of detectors yet devised.
works on a anidue principle. no acids or liquids cf any kind are used, the action is electrolytic. As is commonly known, this action is brought about by the plating of the dich the peroxide of lead pellet

## is placed.

Thls detector works only with a lattery, and to obtain the best results,
cur Potentlometer should be used with it. The positive pole of battery masit
be connected to the post marked "X." it is especlally desirable for portable sets, or sets subjected to shocks or jars. it will also retaln its adjustment better than the majority of detectors. A good sized plece of Peroxide of Lead is provided with each detector. For short distance, a fine adjustment is not
necessary; but a falrly good pressure should be brought upos the peroxlde. necessary, but a falrly good pressure should be brought up No. $40 \times 02$ Improved Peroide of Lead


## ELECTROLYTIC DETECTOR.

Our Improved electrolytic detector has the same marked improvements which characterize our Improved Perozide of ping. moves within our newly devised bushing. The resistance spring inside the bushing is held in place without danger
of being thrown to one side or another
when using the when using the detector, thus permitting of fine adjustment. All contacts as a result are perfectly made, giving an ex-
tremely sensitive instrument. With practically all types of electrolytic detectors that have come to our attention, the Wollaston wire is wobbly and renders it very
difficult to get a. good adjustment. Andifficult to get a good adjustment. An-
other great advantage in this detector is the simple and easy manner in which the There is a slight hold the wire in place. of the pln, into which the Wollaston wire fits snugly. It is a very simple matter to in, the wire into the pin and oncer
The extreme sensitiveness sons well posted in wíreless. Many very expenslve styles of electrolytic de tectors are now in use throughout the country, and up to a few years ago it was impossible to purchase an electrolytic detector at a price which wouid offer to our patrons is not by any means designed for experimental purposes. but may be used, and in fact is belng used, at many stations where accurate work is required. It is unquestlonably the best and most practical and effiInstead of the carbic detector on the market for the price.
bon cuptag absolutely guaranteed not to leak. One of the most important far-
tures of an electrolytic detector consists in the mechanism used to raise and dower the fine Wollaston wire. With our detector the wire is moved up and (acld) to the preclse depth required.
$1 / 10,000$ of an wire in the very thinnest platinum wire obtainable belng $1 / 10,000$ of an inch in diameter. The wire is sliver plated, but when placed in
the cup the silver is quickly dissolved by the acia wire should sist for quite a long while. All metal parts are of wollaston plated to prevent electrolyte tarnishing the metal. The brilliant white metal parts in contrast with the hard rubber base and binding posts give to the instrument a most handsome and distinctive appearance.
The acld cannot be, sent through the malls or by express. We furnish As the detector Itself is a primary battery no extra bectrolyte.
However, battery may be used, if desired.
Our No. 66X82 potentiometer should aimays be used when a battery is In circult, else the strong current will soon dissolve the fine wollaston wire the recelver. be It is a simple matter to prepare the deteditor for work. The cup should that it is not necessary to draw off acid each time the detector is used but one drop of ordinary kerosene oll on the acid in the carbon cup, using the pipette to do so. This will effectually prevent evaporation and the acld may be left In detector for weeks without the instrument being in the least afused a great many tlmes.
When connections are completed, screw dawn the thpmbscrew far enough
to permit of the wollaston wlre barely touching the solution. With a little experimenting the right immersion in the acid whil be found, and the best regNo. $61 X 06$
Wollaston wire, .0001 thick, per inch............. $\$ 1.25$ Postage,
Postage,
2c

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LIGHTS OUT，MERCURY THEATER，BUCK LIGHTS OUT，MERCURY THEATER，BUCK
ROGERS，THERAILROAD HOUR，TERRY
AND THE PIRATES，X MINUS ONE，QUIET


EWS OF 1940，JOHN CHARLES THOMAS， THE LUX RADIO THEATER，THE THIRD
MAN，SF－68，BULLDOG DRUMOND， MAN，SF－68，BULLDOG DRUMOND，
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AND MANY MANY OTHERS！！！！！

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OUR ALL NEW AMTIQUW IS OFF THE PRESS！！When it seems impossible to find a certain tube type， it is often possible to substitute another type tube with no circuitry changes． This booklet contains Four Levels Of Substitution，How to substitute 6．3 vac filament tubes for 2.5 vac filament tubes，A table of direct substitute tubes，
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I wrote to
Dick Ransley of AWA to identify a table model Grebe model 63 A (picture inclosed) and he tried but without success, that is to tell me the approximate year of manufacture. He thought you might out through


THE HORN SPEARER. It intriques me because Grebe's workmanship was so good along with quality, but this set is badly put together, but it still has the Grebe trademark and has beeutiful enclosure.

This is the correct picture.
The pictinpf tind was here lest mort!: kis roct the rigkt one.

Ies Rayner
5512 N. 71st Place
Scottsdale AZ 85251


Tiz WIRELESS TELEGRAPHY ${ }^{3}$ -

- just mentioned are the only forms used commercially which require cal battery current to operate them.
Galena is very sensitive when ra clamped piece is touched by a thin copper wite, and thus completes the circuit.
Silicon is a sensitive detector and doees not lose its adjustment easily. "Perikon" is the commercial name for a detector much used by the -


Wa. $3,186$. - Crystal detector with couble adjustment. This instrument is particularly do-
signed to readily allow the delicate adjustment of any crystal or mineral. The very signed to readily allow the delicate adjustment of any crystal or mineral. The very
finest micrometer adjustment can be had by simply turning the hard has two adjustments. one by means of the sharply pointed rod which can be fifted up or


Wha. 3,167.-Double Crystal detector. Two crystals in contact often form a very sonsitive detector, especially if one be an inactive substance and the other sensitive. Thris sit the
fature of the "pericon" detector. Carbop and cartorundum may be used in this dotector stand.

TYPE DB CRYSTAL DETECTOR, STYLE

## NO. 307216

IN the base of this detector what is known as a blocking condenser is connected across the telephone terminals, thus making a very compact and complete unit.

The two types of detectors used on this unit are what is known as the "Pressure" type and the "Cat Whisker" type. In the former two selected minerals are held in pressed contact with each other. In the second type but a single crystal is used, the adjustment being made by means of a fine wire which may be moved about the crystal to locate sensitive spots.


Westinghouse Supersensitive Crystal Detector, Model DB . . . .................. $\$ 6.50$
Dimensions: $45 / 8 \mathrm{in} . \times 41 / 4 \mathrm{in} \times 2 \mathrm{in}$.
Weights: Net. | lb.; Shipping, $1 \%$ lbs.
Spare Crystals (Pressure Type) Model DE,
Spare Crystals (Cat Whisker) Model DD, \$1.00

Note: Crystal Detertor, Iypu DR, may br very matisfactorily employed with any ntindird receriving nutfii find it has bern
specinlly designed Ior use with the type RA Tuncr, deacribed specinlly desisned for use wit
Radic Entcres the fome, R. S. A. 2 ?

## BURNDEPT Crystal Detector



THIS unusually efficient crystal detector will appeal to all users owing to the ease and certainty with which adjustments are made. Instead of "pushing and pulling " to get best signal strength, just rotate the ebonite handle to obtain micrometer screw adjustment of the gold cat whisker. All parts of the crystal can be explored, and the cat whisker stops just where you put it. The crystal is the new Burndert Synthetic, and is sensitive all over; all working parts are enclosed in a glass tube, and can be assembled (without tools) right or left-handed as desired.

A Burndept " Quality " component of real instrument finish.
No. 215. Crystal Detector Assembly, for mounting on panel, and Burndept Synthetic Crystal in special cup: packed in carton with securate panel drilling template
No. 216. Crystal Detector complete as above, but mounted on engravedebonite panel.fitted with lacquered terminals, the whole on polished walnut base ready for use
No. 21\%. Carton of spare parts for the above. Each carton contains 3 Burndept Synthetic Crystals mounted in cups, 3 Gold Cat Whiskers mounted in brass adaptors, and I spare Class Tube
No. 218. Carton containing two unmounted Burndept Synthetic Crystals
No. 219. Carton containing three Crystal Cups to fit above Detector, together with a sufficient quantity of Wood's Metal

CARBORUNDUM DETECTOR, UNITED WIRELESS TYPE. a detector, as it is not affected by a heavy dis.
charge when sending. This type of detector
been charge when sending. This type of detector has mercial s.ations of The United Wirtless Comconsists of two large itself to be the best. It
carrel plated carrying carbon buttons, between which bels. crystal is set. The fistance between the but-
tons is adjusted so that any sing be accomanmodated. That any size crystal may
fitted with hard adjusting screws are fitted with hard rubber heads. All metal parts are nickeled, and the base is of polished marble
This is a very exceltent type of detector, and the fact that it is so largely used by one of the foremost wireless companles den orth. Crystals not supplied No. 77X83 Carborundum Detector...
. $\$ 3.00$
No. 77X92A dion Detector. Postraved type. (Cut and description received
too late for insertion in catalog.)
No. $77 \times 9$. Audion Detector.
. $\$ 4.00$. Postage 25c


Contect polnt in purponeiy bent in order permit of contaet with my part of eryutal results with the recoiving bet IIOn the most inexpensive high class detector before the public. It will be cound to be equally as sensitive, and to permit of as fine an pajustment, as the this detector is licensed for licensed for commercial work. It is only because this detector is licensed for private use that it can be sold at auch a low price. connection with the admirable and lasting adjustment you are able to get and the ability of the Ferron crystal to wlithstand gtrong si nable without burning out-a most common cause for complaint with many other sonsitive detectors-have contributed greatiy to the high standing of this detector among the thousands of operators throughout the country.
and will usually retain its adjustment for several woeks without aitenals. The users of Electrolytic and other styles of detectorn will appreciate this
point. "Ferron" is a metallic crystal, and is held in a nickeled cup, mounted on the detector stand. An oxceedingly tine adjustment of pressure is eanlly obtained by means of the triple spring, operated by the hard rubber knob. fiallin the metal parte are nickel plated on brass, and the base is of poished Italian dove marble, mear

This detector operates best without elther potentlometer or bettery.
Our fles are full of voluntary testimonials from enthuglasto throughout this country, Cenada and forelgn countrm enthumiastic operators lent resulta obtained with this most admirable detector. recordins the excelxteame following letter wal voluntarily written by an operator on one of the ron detector cox40 recelving set: of Memphis." 765 mallesi B. N. Bostor) 18 a peach. With it I copled the "Clis
 long distances, End over land, too to
The sime operator orote later as follows:
My profound felleitations: your detector is certainly a bird, and as the Mrans., I texted it out with a silicon, and I could get P. C. ( 35 milles) Bes loud as I could P. G. ( 15 milles) on the oither, etc, etc.0
The following clipping taken from the Toledo Nows-Bee shows the result Lamb is now the wireless operator on one of the steamers on the Grent Lakes. The distance from Toledo to Atlantic clity ts about 700 mlles . Mr. Lamb was using our No. 60X39A recelving set with a 2000 -ohm head wet:
-Kemarkable Feat For Wireleas Boy.
"With a wireless station that cost him just \$11, kimer Lamb, an 18-year Toledo boy, living on Erie near Galena Etreet, on Friday nicked up the U. W.


## STATION No. V

## A Complete Station with Unlimited Possibilities



WE illustrate the finest and most complete station offered to the Wublic. It is sufficiently powerful to actuate up to twelve Loud Speakers, and, under favourable circumstances, it has received American Broadcast on a Loud Speaker.
No. 124 S. Burndept Tuner, Mark IV
No. 108 S. Burndept H.F. Amplifier, Mark $1{ }^{\circ}$
No. 103 S. Burndept Ultra III Receiver
No. 118 S. Burndept Power Amplifier, Mark III Complete Set of 13 Burndept Coils
No. 184. 1 pair Best Head Telephones, 120 ohms
No. 162. 4 "R. 5 "Valves
No. 168. 2 " L.S. 5 " Valves
No. 152. 2 Accumulators, 75 amp. hrs. (actual)

> No. 178. H.T. Battery, in case, 75 volts (large)
> No. 412. HT. Battery, in case, $120-180$ volts (large)
> No. 203. "Ethovox" Loud Speaker, 120 ohms
> No. 420. Burndept Aerial Equipment
> No. 233. BurNDEPT Aerial Safety Switch
> No. 474. 6 yds. Twin Flexible 40136
> No. 475. 3 yds. Twin Flexible $70 / 36$
> $\begin{aligned} & \text { No. 129. Burndepr Public Address Unit } \\ & \text { No. 611. Hand Microphone }\end{aligned}$ (optional) $\{$

## The Marconi V. T.

THREE-ELEL+KODE OSCILLATION VALVE, OR AUDION

$T$ wif: remarkiulile distances over which may be attributed in a large measure to the amplifying properties of the racuum thlue. Although continent-to-continent wireless communication has been established with oscriliation detectors of losser degrees of
sensitiveness, the Marconi sensitiveness, the Marconi V. T. (three-
electroule valve) permits the to be covered with smaller amounts of power. Inundred kilowatts of electrical energy whereas the experimental station is required to operate on a restricted wave lengeq and with the relatively sinall antenna current of amateur trausmitiors. A sensitive oscillation detector sucl: : sis the surconi $V$. T. is therefore an ess lial to communication between low power , unteur wirelsss stations; in fact, this ultra-wn.witive oscillation detector is absolutely necen. 'Ito bring the signals up to the point of aut 'ity when receiving over great distances.
Anateur wirele. stations using power inputs of $1 / 2$ to $3 / 4 \mathrm{kw}$. and operating at the wave length of 200 meters, have estublished wireless communicution with similar stations

Rugredmess Roliabilit! Lomir Iife.
Extreme Sonsitiormess




Fig. 1.-APPARATUS FOR REGISTERING PIANO MUSIC BY THE PHONOGRAPH.

## Club News

I received your renewal notice here yesterday, stating that my subscription to "The Horn Speaker has expired. Thank you for letting me know. I want to take this means to congratulate you for the publication of a fine paper. It has a most excellent coverage of antique phonographs as well as radio receiving equipment. Ve are holding our annual Radio Club meeting on the last Sunday of this month. The annual meeting of The Omaha Council Bluffs Radio Club will be hosted by Mr. Arthur Trauffer, Curator of the Doctor Lee deForest Memorial Museum, and Mr. Stephen Meyerman. The meeting will be held at the upstairs museum of Stephen Meyerman, 152-1/2 West Brosd.way, Council Dluffs, Iowe. Vierbers are urged to bring any antique wireless or phonograph equipment which they may want to swap.

My Sincerest regards,
Howar C. Bergstrom
542 Grant Street $70-21-7^{8}$
Omaha NB 68104

## LETTERS

Dear Jim:
Check for $\$ 5.50$ attached. Its a pleasure. Too bad about Jim Fred's Antique Radio Topics. As a publisher, wish I could think of a way to boost circulation for you guys.

That's what keeps you alive.
Cheers and 73's
George Kitchen 137 New Bridge Rd. New Milford. N.J. 07646 EDITOR... thanks for the kind words about Jim Fred and us.

## MART

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Fig. 2.- Registration of a cornet solo by the phonograph.
Ia Neture, pon


FOR SALE: Gilfillan Peter Pan cathedral $\$ 275$. or best offer. Have many more old radios, send \&l. for list. Chuck, 925 Starlite, Grants Pass, Oregon 97526. Ph: 503 476-1078.

ATHIER TONT REPLICAS Bread Board witches - \$10.00, front plates for variometer, variocoupler, and 211 tunery - \$8.50. AK thumb nuts, SASE for ample. Replicas of any dial or knob. WD11 or UV99 adaptor $-\$ 5.50$, 2 for $\$ 10.00 p p$.
K. Parry, 17557 Horace, Granada Hills, CA 91344.


FOR SALE: Brown British horn cirs 1926. Unusually amall size (12 inches tall, 7 inch bell). Excellent condition, working. $\$ 115.00$.ppd. Creg Dockter, 2519 Ave. C, Bismarck, N. Dek. 58501.

FOR SALE OR TRADE


OLD TELEVISIONS: Three inch Pllote, $7^{n}$ Teletone, $7^{\prime \prime}$ Sentinel, $8^{\prime \prime}$ RCA, 7" Emerson, 7" Hallicraftors, 7" Philco, 7" Raytheon/belmont, 7" Admiral, also 7" Niotorola and others. Have lenith Transoceanic radio. Send \$1.00 for list. Charles, 925 Starlite, Grants Pass, Oregon 97526. Call Charles 503 476-1078.

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411 10.back issues for 1977... $\$ 5.00$ Single issue...08.75 each
Any eingle issue of 1978 ..\$. 75 each
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Box 12 Kleberg. Teres 75145

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FOR SALE: Please take note if: You are restoring a prized antique battery radio. We can supply ten conductor cable housed in an original type brown cloth knitted sheath to replace your torn and tattered battery cable. Use as many conductors as required and then discord the rest. The price is $75 /$ /foot plus shipping. Write: Olde Tyme Radio Co., 24 L 5 Iyttonsville Rd., Silver Spring MD 20910.


FOR SALE - Radios 1930s. Clarion Cathedral \$75. Philco \#57-C \$65. RCA 8572 \$50. Emerson 1933 \%50. Crosle sulo. Echo Cathedral no chassis \%20. Silvertone Farm "45. Zenith big ble: round disl 485 . Packard Bell $\$ 20$. RCA tall wood case \$50. Feceral nice wood E75. Airline wood ALLE. Arvin \$20. Firestone ${ }^{\frac{1}{*} 20 \text {. Atwater Kent }}$ \$100. Knight \$35. Motorola wood ${ }^{4} 45$. Chanticleer 550. RCA 20. More. SPEAKERS: AK horn $\$ 20$. papiermache horn \$20. Miller horn s15. no drivers,bases. Magnovor speaker $\$ 35$. Sonora 35, more. Several battery radios from 1920s. Everything sold as found. Have new interests and will consider any offers. Call on phone only: Charles Seidel: 1-503 476-1078.

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2. Date of filing: Sept. 28, 1978
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FOR SAJE: Early battery radio 12 tubes rare. Best offer over $\$ 250$. or trade for outside horn phonograph. Chuck, 925 Starlite, Grants Pass, Oregon. 97526. Ph: 503 476-1078.


FOR SAIE: Solid State "A.", "B" and "C" power supply for operation of 1920's battery radios. Price $\$ 109.50$ poatage paid. Send SASE for information to: Gary Schneider, 6848 Commonwealth Blvd., Parme Hgts, OH 山L130. FOR SAIE: Early elect.teble radios, small wood case radios ( $A C-D C$ ), speakere, tubes, service notes, parts, test eqpt., meters, too much to list. Write wants, SASR a must. Krontr, 100 Oage Ave., Somerdale N.J. 08083.

FOR SETS: Reproducen 1926-19L8 relio schematics wis?limencont procedures. TV sehemetics also available. Sfnd morel and/or shassis number plus $\pm 2$. or diagram plus \$3. to: Antakamatics, J. F. Antski, 311 Bear Ridge Rd., Pleasantville N.Y. 10570.

FOR SALE: Collector is raducine collection, sets speakers, tubes, books magasines, teat eqpt. li8 years in radio repaire for details send large Sascs. Krantz, 100 Csage Ave., Somerdale N.J. 09 CR 3.

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lesson $2, .53 \mathrm{p}$ ．，and lesson 3， 31 pages，$\$ 7.00$
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laboratory workbook，for above，$\$ 5.00$

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Sylvania TV Picture tube comparison chart，$\$ 2.00$ Sylvania TV Picture tube comparison chart，$\$ 2.00$
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lvania News，these are in a loose leaf notebook，and if all issues are there，but there are a lot of them $\$ 8.00$ Sylvania technical Manual，st－tested radio tubes， 1936 Servicing TV receivers，Sylvania，1950，\＄4．00 40 uses for Germanium Diodes，$\$ 2.00$ Yol II，Servicing TV Receivers，Sylvania，1951，$\$ 4.00$
Technical Manual，Receiving tubes，picture tubes，ECG

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## FOR SALE OR TRADE

FOR SNE: Automatic Orthophonic Vict rola velo-50, Near mint original, with all instruction books. Second owner. Make cash offer, no trades, to: Herb Cooley: 57 Adams, Akron, Colorado 80720. PH: I 303 34:5-6616.

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FOR SAJE: Victrola VV-YXV "School Machine", second owner. New never been sold at retail. Near mint original. Make cash offer, no trades, to Herb Cooley, 57 Adams, Akron, Colorado B07 2 . Phone: 1303 345-6616.

FOR TPADE: Ancient radio receiving sets, tubes, parts, catalogues and magazines. What have you: My list for yours. Howard C. Bergstrom, 5142 Grant Street. Omshe NB 68104.

FOR SAIE: Anticue Ammeter in polished wooden case and has mirrored scale. $7-1 / 8^{\prime \prime} \times 7-5 / 16^{\prime \prime} \times 3-1 / 8^{\prime \prime}$ deep. Mid. by Queen \& Co.: Mhila., PA. - \$ 85.00 , J. Albert Wirren, Box 279, Church St., Waverly PA 18471.
FOR SALE: High-voltage capacitors for Hallicralters 7-inch television sets. Send SASE for information. C. H. Sprver, 256 West 88 th St., New York NY 10024.

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## WANIED

CATHEDRAIS WMTED：Restorable AC sets． Also Edison radio／phono．，Radiola 24 and 26，Deforrest D－10，chassis／speaker， Philco 26／48 floor model working or restorable．Pat O＇Hern，P．O．Box 55456， Houston，Texas 77055.

WANTRD： 1933 Emerson Mickey House radio． Write or call collect．Les Sira， 5551 H．Lover＇s lane，Dallas IX 75209. Phz 214 352－9757．

NANTED：Spark type Diathermy Machines or gaps from same．Condition unim－ portant as long as gaps intact． Bob，W6KT， 4178 Chasin St．g．Oceanside， Calif． 92054.

WAR TKD：＂Radio News＂for March 1925, also＂Radio News＂for all months of 1922 －all with covers． Albert Warren，Box 279，Chureh St．， Waverly PA 18471.

WANTED：picture of a Zenith Cathedral model L．A polorold will so．Most of the grill on mine is broken and lost．Need picture for restoration．Also need chassis for Jackson Eell model 84（Ryders VIII Hisc． Pg 803）Russ Goodlive， 1401 Franchere PI．，Sunnyvale CA 94087.

Wanted：Can anyone I．D．＇my Philco Kadio？It has dark green metsl cab－ inte（table type），A．C．chassis，has same tube compliment as my fiadiols model 18．Appears similar to sche－ matic for Philco model 87，except has one＂71a tube where \＃87 hes 2 th＇s． I need top andion appropriate speaker． Has anyone a rebuilt or good used $21 Y \mathrm{PH}$ pictur：tube（or equivalent）？ Also need schematic for Plilico morle？ zif－12．Does anyone have a schematic or list of Xtals useeble with a Saturn $100 \mathrm{C} . E$. trensceiver，model NoN． 2 made by ：＂uesvrematic Co．of Hew Hamslite？
John G．Bayusik， 321 orendview hive．， Hariden om 0851L．

WANTED：RCA Radiola 20，Kennedy， Gilfillan，Pilot Super Wasp，AK， AC Dayton XJ．25，Grebe Synchrophase， Cathedral and other pre－1935 table radios；Vintage horn or cone loud－ speakers，headphones and trubes． Flease state model，condition and price with reply．Dave Pearce 573 Sylvan Ave．，North Vancouver，B．．C． Canada V7R 258．

WANTED


WANTED：Any early to Radios using Kellogg 401 tubes or Cardon 373 tubes， including tubes：parts，original literature．
Rosenthal， 507 S．Maryland Ave．： Wilmington DE 19804．
WhNTED：Wood table model plug－in redios，especially Cathecrals．aiso outsice horn phonugraphs；music boxes，needle tins，record dusters， catalogs，etc．J．1oyc， 4618 Adams St．， Hollywood FL 33021.

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