



# *RADIO EQUIPMENT*

*Sears, Roebuck and Co.*

**SATISFACTION GUARANTEED OR YOUR MONEY REFUNDED**

# It Pays to Buy from Sears

When you purchase radio or public address equipment from Sears you *know* that you will be completely satisfied. Because Sears guarantee that every article you purchase will give you the service you have a right to expect. If for any reason whatever you are not satisfied with any item purchased from us, we want you to return it at our expense. We will then exchange it for exactly what you want or refund your money, including any transportation charges you have paid.

When you buy from Sears, you also save on transportation charges: Although all merchandise is shipped from Chicago, you pay shipping charges only from our nearest Mail Order House, except in a few instances where otherwise noted. There are ten of these Sears Mail Order Houses conveniently located throughout the United States. This means added savings for you.

Sears also maintain a staff of technicians to answer any questions regarding radio or sound equipment, you may have. If you have a special problem, write to us . . . our radio department will be glad to help you. Just address your letter to Sears Personal Service, Radio Department, Chicago.

## Previous Catalogs Withdrawn

Effective November 1st, 1941, this catalog supersedes and cancels all previous radio supply and public address equipment catalogs which we have published.

We can not supply merchandise listed in this catalog at prices lower than those shown . . . unless market developments or changes in manufacturers' established prices permit us to do so. You will always be given the advantages of the lowest prices.

## Concerning Prices and Taxes

On many items in this catalog the manufacturer establishes the prices at which we are permitted to sell . . . and reserves the right to change such prices without notice. In view of this we, too, must reserve the right to change our selling prices on such goods whenever we are required to do so.

If you should order an item which has advanced slightly in price, we will explain it to you as we bill your order. Should the price advance be great, we will advise you before shipping, and you can make additional remittance by return mail or instruct us by letter in accordance with your wishes.

We also reserve the right to add any Federal, State or local taxes which may affect the cost or selling price of any merchandise listed in this catalog.

You are protected, of course, on all of your purchases by our guarantee of **SATISFACTION OR YOUR MONEY BACK.**

## Special Order Merchandise

Ordinarily we go out of our way to get special or unlisted items for our customers. We regret that we must temporarily discontinue this service because of the extreme difficulty in obtaining such goods.

However, we still have small quantities of merchandise on hand which were listed in our last year's catalog. If the item you want does not appear here but is listed in last year's Radio Equipment or Silvertone Sound System catalogs . . . we may be able to supply your needs. Write to Sears Personal Service Dept., Chicago for information.

## How to Order

Select the articles you want from this catalog and write them down on one of our order blanks or any piece of paper. Put down the catalog number, quantity desired, the name of each article and the price.

## Send Easy Payment Orders to

Sears-Roebuck's Mail Order House in Chicago, Boston, Kansas City, Atlanta, Seattle, Philadelphia, Dallas, Minneapolis, Memphis, Los Angeles. **Send CASH ORDERS to Sears Chicago Mail Order House.**

Merchandise will be shipped from Chicago, but you pay transportation charges only from your nearest Sears Mail Order House, except in a few instances where otherwise stated.

Be sure to include additional money in your remittance to pay postage as charges for parcel post shipments must be paid in advance. We return every penny you send over actual postage required to cover shipping charges from your nearest Sears Mail Order House.

For ordering merchandise on Easy Payments, see instructions below.

## Sears Easy Payment Plan

### A Convenient Way to Buy

Why not order everything you need at one time . . . and pay for it on convenient Easy Terms? Just a little each month will purchase anything we sell in orders of \$10 or more. Don't hesitate to ask for Easy Terms. Sears requirements are simple and easy to meet . . . based on character and income. List the things you want and fill in the few simple questions on the Easy Payment side of the enclosed order blank. The deposit table at right and the monthly payment table below will show you the exact deposit to send with your order and the amount payable monthly.

### Deposit Table

If cash price of order amounts to:	Send with order	If cash price of order amounts to:	Send with order
\$10.00 to \$15.00	\$ 3.00	\$100.01 to \$120.00	\$24.00
15.01 to 22.00	4.50	120.01 to 140.00	28.00
22.01 to 30.00	6.00	140.01 to 160.00	32.00
30.01 to 40.00	8.00	160.01 to 180.00	36.00
40.01 to 50.00	10.00	180.01 to 200.00	40.00
50.01 to 60.00	12.00	200.01 to 225.00	45.00
60.01 to 70.00	14.00	225.01 to 250.00	50.00
70.01 to 80.00	16.00	250.01 to 275.00	55.00
80.01 to 90.00	18.00	275.01 to 300.00	60.00
90.01 to 100.00	20.00		

### Monthly Payment Table

If Cash Price Less Deposit (Unpaid Balance) Amounts to:	We Will Add for Easy Payments:	Amount Payable Monthly is:	If Cash Price Less Deposit (Unpaid Balance) Amounts to:	We Will Add for Easy Payments:	Amount Payable Monthly is:
Up to \$10.00	\$1.00	\$2 <sup>00</sup>	\$60.01 to \$65.00	\$6.25	\$7.00
\$10.01 to 11.00	1.05		65.01 to 70.00	6.75	
11.01 to 12.00	1.15		70.01 to 75.00	7.25	
12.01 to 13.00	1.25				
13.01 to 14.00	1.35	\$3 <sup>00</sup>	75.01 to 80.00	7.75	\$8.00
14.01 to 15.00	1.45		80.01 to 85.00	8.25	
15.01 to 16.00	1.55		85.01 to 90.00	8.75	
16.01 to 17.00	1.65				
17.01 to 18.00	1.75	\$4 <sup>00</sup>	90.01 to 95.00	9.25	\$9.00
18.01 to 19.00	1.85		95.01 to 100.00	9.75	
19.01 to 20.00	1.95		100.01 to 110.00	10.50	
20.01 to 22.00	2.10				
22.01 to 24.00	2.30	\$5 <sup>00</sup>	110.01 to 120.00	11.50	\$10.00
24.01 to 26.00	2.50		120.01 to 130.00	12.50	
			130.01 to 140.00	13.50	
26.01 to 28.00	2.70	\$6 <sup>00</sup>	140.01 to 150.00	14.50	\$11.00
28.01 to 30.00	2.90		150.01 to 160.00	15.50	
30.01 to 33.00	3.15		160.01 to 170.00	16.50	
33.01 to 36.00	3.45		170.01 to 180.00	17.50	
36.01 to 40.00	3.80	\$5 <sup>00</sup>	180.01 to 190.00	18.50	\$13.00
40.01 to 45.00	4.25		190.01 to 200.00	19.50	
			200.01 to 210.00	20.50	
			210.01 to 220.00	21.50	
45.01 to 50.00	4.75	\$6 <sup>00</sup>	220.01 to 230.00	22.50	\$14.00
50.01 to 55.00	5.25		230.01 to 240.00	23.50	
55.01 to 60.00	5.75		240.01 to 250.00	24.50	
			250.01 to 260.00	25.50	
		\$6 <sup>00</sup>	260.01 to 270.00	26.50	\$16.00
			270.01 to 275.00	27.25	
					\$17.00

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**\$149.50**  
Cash  
\$32 Down

## New Hallicrafters SX-32 Communications Receiver

- Thirteen Tubes (Including Rectifier Tube).
- Frequency coverage 500 KC to 40 MC—6 Bands.
- Two Tuned Radio Frequency Stages—21 F. Stages.
- Three Step Crystal Filter.
- Six Selectivity Positions.

Here is the result of 600 carefully analyzed reports and recommendations from radio experts... including specifications offered by Government engineers. It is brand new... distinguished in performance... effortless in operation... and priced extremely low for a receiver of this exacting quality.

With the exception of several features, the SX-32 Super Skyrider is the same receiver as Hallicrafters' famous precision model SX-28 described on Page 5. The essential difference between the two models is that the Model SX-32 does not have a main dial vernier and locking feature, or Bass Boost. Also the noise limiter on the SX-28 is adjustable whereas on the SX-32 it is automatic. Other than this, Model SX-32 is the same carefully engineered receiver as the SX-28... and at a much lower price.

Covers the range from 500 K.C. to 40 M.C. in six bands. Has 13 tubes including rectifier tube. Two stages of preselection, micrometer scale tuning. Inertia control, two I.F. stages, temperature compensation. Six step variable selectivity from broad I.F. to crystal filter. Amplified AVC. Rigid heavy flame welded chassis. Automatic noise limiter and beat frequency oscillator. Separate R.F. and A.F.

- Amplified Automatic Volume Control Action.
- Calibrated Band Spread Tuning.
- Inertia Controlled Main Tuning Dial.
- Push Pull 6V6GT Audio Output.
- Automatic Noise Limiter.

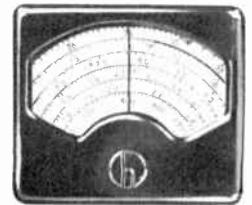
gain controls. Calibrated band spread. Jeweled S-DB meter. Tubes used are: 6AB7 1st R.F.; 6SK7 2nd R.F.; 6SA7 Mixer; 6SA7 Oscillator; 2-6SK7 I.F.'s.; 6B8 AVC. Amplifier; 6H6 Automatic noise limiter and 2nd detector; 6J5 beat frequency Oscillator; 6SC7 1st Audio; 2-6V6GT push pull output and A5Z3 rectifier. All controls required of a thoroughly first class communication receiver are there. All components are treated for both tropical and sub-arctic operating conditions. Supplied with a standard 19-inch panel for relay rack mounting and handsome gray steel cabinet, size 20½x14½x9½ inches.

**57 NPM 17982**—SX-32 for 110 volt 60 cycle AC operation. Complete with tubes less speaker. Shipping weight, 87 pounds. Not available... **\$149.50**

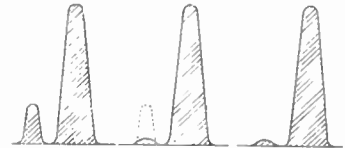
**57 NP 018813**—PM23 10-inch PM speaker. Shipping weight, 18 pounds... **\$15.00**

**57 NPM 17993**—R8 8-inch speaker in Reflex Console as illustrated on Page 5. Shipping weight, 67 lbs. Not available... **\$29.95**

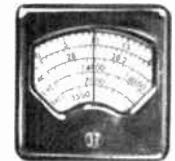
**57 NPM 17995**—R12 12-inch speaker in Reflex Console as illustrated on Page 5. Shipping weight, 72 pounds. Not available... **\$34.50**



Inertia Controlled  
Main Tuning Dial



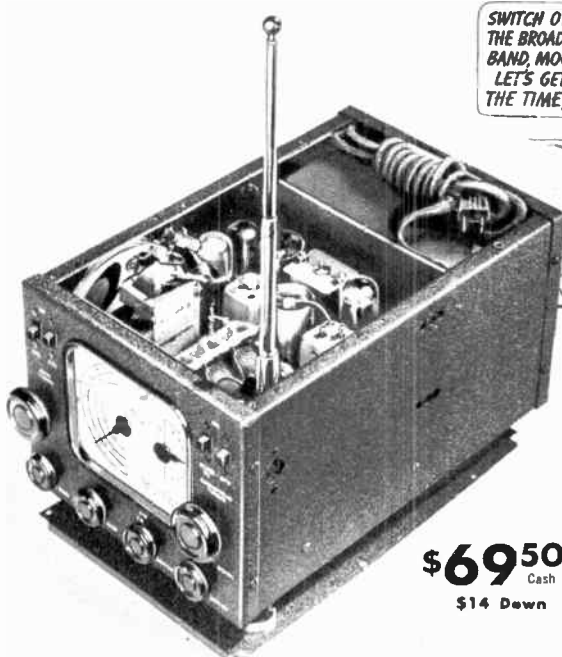
Single Signal  
Reception in 3  
Easy Adjustments



Calibrated Band  
Spread Dial



Six-Position  
Selectivity



**\$69.50**  
Cash  
\$14 Down



### Works Anywhere

- Operates on either 110/125 volts AC or DC or from self-contained batteries.
- Electrical bandspread.
- Charging circuit for battery.
- Automatic noise limiter.
- 3-foot collapsible antenna.
- RF stage used on all bands.
- Sensitivity below two microvolts on all bands.
- RF and IF circuits Permeability tuned.

## Hallicrafters S-29 Sky Traveler

A portable designed to communications receiver tolerances. Take it with you wherever you go, or use it at home. Operates on either 110 volt AC or DC or from its self-contained batteries. Mounted in an attractive black crackle finished cabinet with rounded corners. Size, 7x8½x13¼ in. Frequency coverage from 542 KC. to 30.5 MC. (553 to 9.85 meters) on four bands. Self-contained antenna with high gain coupling circuit provides truly remarkable reception throughout its tuning range.

Frequency Range: Band 1—542 to 1490 KC., Band 2—1.43 to 4.35 MC., Band 3—4.12 to 11.9 MC., Band 4—11.26 to 30.5 MC.

Tube Lineup: 1—1T4 RF Amplifier; 1—1R5 Mixer; 1—1P5-GT 1st. IF Amplifier; 1—1P5-GT 2nd. IF Amplifier; 1—1H5-GT 2nd. Detector, AVC, 1st audio; 1—3Q5-GT Output Amplifier; 1—1G4-GT Beat Oscillator; 1—1G4GT Noise Limiter; 1—50Y6GT Rectifier.

Controls: Main tuning, Bandsread, R.F. Gain, A.F. Gain, Band Switch, Power Switch, AVC Off-On switch, BFO Off-On Switch, ANL Off-On Switch, Send-Receive—Standby Switch.

Connectors: Doublet Marconi Antenna Socket, Phone Jack, Battery Cable with Plugs, AC/DC Cord.

**57 NP 017994**—Model S-29 complete with tubes and batteries. Shipping weight, 25 pounds. **\$69.50**

# HALLICRAFTERS Communication

## World Famous . . . Used by the Governments



### Sky Buddy—Model S-19R

**\$3250**  
Cash  
**\$8 Down**

- Continuous Coverage 44 MC to 545 KC
- Electrical Band Spread on All 4 Bands
- Uniform Sensitivity on Ten Meter Band
- Illuminated 360° Band Spread Scale
- Built-in 5-inch Speaker Floats in Rubber

One of America's most popular low priced communication receivers. Features the same electrical band spread system used in higher priced Hallicrafters models. No other receiver at this low price has smoother electrical band spread action. Positive, gearless rotor sections eliminate back lash. Conveniently arranged controls: Stand-by Switch, Band Selector, On-Off Switch, Main Tuning, Band-Spread Tuning, AVC On-Off, Audio Gain (volume), B.F.O. Switch and Pitch Control. Also equipped with Headphone Jack which silences speaker when phones are plugged in (see Page 13 for standard phone plugs). Superheterodyne Circuit employing six modern tubes (including rectifier tube). A highly desirable receiver for the short wave fan as well as the beginning radio amateur. Much better designed for specialized short wave work than a six-tube household radio. For 110 volt 60 cycle AC operation. For 6-volt Storage Battery operation order Vibrapak 57 NP 018289 listed below for which a socket is provided on rear of chassis. Black crackle finish metal cabinet 17½x8½x8½ inches. Shipping weight, 24 pounds.

- 57 NP 018806—Sky Buddy complete with tubes.....\$32.50  
57 NP 018289—Vibrapak for operating above and other Hallicrafters Receivers from 6-volt Storage Battery. Shpg. wt., 12 lbs. . . \$11.76

### Sky Champion—Model S-20R

**\$5450**  
Cash  
**\$12 Down**

- Automatic Noise Limiter; Quiet Reception
- One RF Stage and Two IF Stages
- Inertia Type (Flywheel) Band Spread Tuning
- Complete Coverage 44 MC to 540 KC
- Separate RF and AF Gain Controls

Compared with the Sky Buddy there's more than enough extra value in the Sky Champion to justify the additional cost. First it has a Noise Limiter, which is extremely important for high frequency work. Also it has a stage of RF, indispensable for 10 Meter operation. A full complement of nine tubes (inc. rectifier tube) eliminates circuit compromises which are necessary in cheaper sets. Tubes used: 6SK7 RF Amplifier, 6K8 first detector-mixer oscillator, 6SK7 first IF Amplifier, 6SK7 second IF Amplifier, 6SQ7 second Detector AVC first Audio, 6F6G second Audio Output, 6H6 Automatic Noise Limiter, 6J5GT BFO, 80 Rectifier. All essential controls for good amateur reception: RF Gain, Band selector, Audio Gain, AVC on-off, BFO On-Off, ANL On-Off, Tone Control and Power Switch, Pitch Control, Main Tuning, Electrical Band Spread Control, Send-Receive Switch. Also headphone jack for standard phone plug. Built-in Speaker, silenced when phones are plugged in. Battleship gray finished metal cabinet, 18½x8½x9½ in. deep. Vibrapak Socket on back for 6 volt DC Operation; see Vibrapak 57NP018289 listed at left.

- 57 NP 018802—S-20R for 110 volt 60 cycle AC. Complete with tubes. Shipping weight, 31 pounds.....\$54.50  
57 NP 018852—Universal Model for 110-250 volt, 25-60 cycle AC. Shipping weight 32 pounds.....\$59.50



### Hallicrafters Defiant—Model SX-24

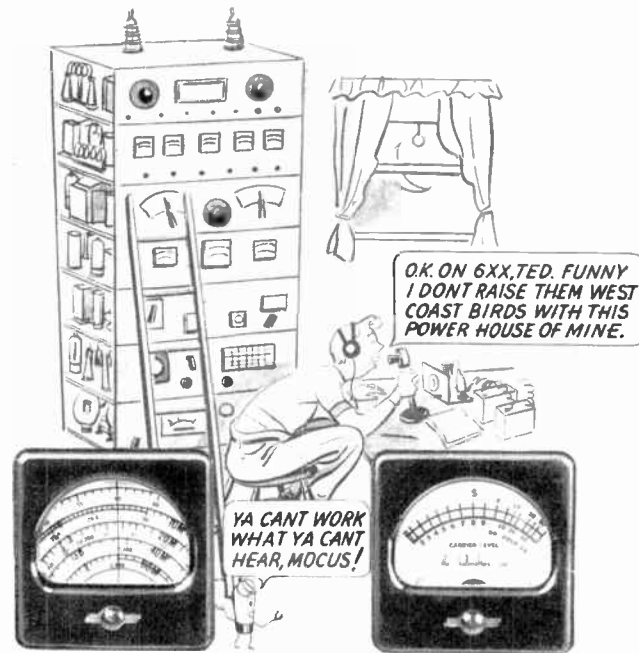
**\$7450**  
Cash  
Less Speaker  
**\$16 Down**

- Automatic Noise Limiter Assures Quiet Operation
- Jeweled D'Arsonval "5" Meter
- Accurately Calibrated, Illuminated Band Spread Dial
- Six Position Variable Selectivity
- Frequency Range from 540 KC to 43.5 MC

An "all-out" Ham receiver! One of the best values in the Hallicrafter line. Practically ALL the features found on higher priced receivers . . . including Six position Crystal Filter, (three for phone and three for C.W.); built-in "S" Meter; and external speaker. Nine tube Superheterodyne Circuit. Frequency coverage 540 KC. to 43.5 MC. in four bands. Controls are RF Gain, Band Selector, Selectivity and AVC, Main Tuning, Tone, Crystal Phasing, Band Spread, ANL, AF Gain, Pitch Control, BFO On-Off, Stand-by Switch. Excellent frequency stability throughout a wide range of the voltage, humidity and temperature variations. One Stage of Pre-selection. Socket for plugging in Vibrapak listed above at left, for 6 volt DC Operation. Gray finished Metal Cabinet, 19¼x9½x10½ in. For 110 volt 60 cycle AC. Speaker impedances 5000 and 500 ohms.

- 57 NP 018812—SX-24 Complete with tubes and Crystal. Less Speaker. Shipping weight, 41 pounds.....\$74.50  
57 NP 018813—PM-23 ten inch PM Speaker in cabinet as shown. Shipping weight, 17 pounds.....\$15.00

# Type Receivers of 84 Countries



Separate calibrated band-spread dial for 10, 20, 40, and 80 meter amateur bands.

Jeweled D'Arsonval movement. Illuminated "S" meter calibrated in "S" and "DB" units.

## Super Defiant—the Complete Answer to Good Reception

**\$94.50**  
Cash  
**\$20 DOWN**

- Twelve Tubes (Including Rectifier Tube)
- Two Stages of Preselection
- Separate Calibrated Band Spread Dial
- Compensated Oscillator Circuit for Stability
- Six Step Variable Selectivity

Remember the thrill of your first QSO? Of course you do! Nobody ever forgets it. If you consider that one of your greatest experiences just wait until you've spent your first evening with your new Super-Defiant!

Among its outstanding advantages are extreme sensitivity and more and better audio quality. The design of the crystal filter makes possible critical CW operation. In addition the sensitivity of the receiver is raised from 2.8 to 4 times in the "CW Xtal" position when the receiver is tuned to the exact resonant frequency of the crystal itself. This means more usable sensitivity.

Two stages of Preselection. Both IF Stages are expanded in the "Broad IF" position for high fidelity performance. An effective AVC keeps most signals at uniform audibility. The ANL reduces static as much as 70%!

Twelve tube (including rectifier) circuit. Frequency coverage 540 KC to 42 MC in four bands. Separate calibrated band-spread dial. Oscillator compensation for greater frequency stability. Six position variable selectivity. "S" meter calibrated in "S" and db. units. Push-Pull output of 8 watts undistorted. Front panel controls RF Gain, Selectivity Crystal Phasing, Audio Gain, Pitch Control, Main Tuning, Band-Spread Tuning, ANL Switch, Tone, Stand-by Switch, and BFO On-Off. External connections for Send-Receive terminals, 500 and 5000 ohm output, single wire or double Antenna. Headphone Jack for standard phone plug. Gray finished steel cabinet 19½x9½x11½ inch. For 110 volt 60 cycle AC.

**57 NP 018899**—Model SX-25. With tubes, less speaker. \$94.50  
Shipping weight, 74 pounds. Not Mailable.

**57 NP 018289**—Vibrapak to operate SX-25 on 6-volt storage battery. Shipping weight, 12 pounds. \$11.76

**57 NP 018813**—PM-23 ten inch speaker in cabinet. Shipping weight, 17 pounds. \$15.00

## Super Skyrider—Model SX28

**\$179.50**  
Cash  
**\$36 DOWN**

- 15 Tubes (Including Rectifier Tube)
- Two stages of Preselection
- Micrometer Band-Spread dial with Lock
- Micrometer Scale Tuning, Inertia Controlled
- Band Pass Audio Filter

Combines features of finest home sets with those of advanced communication receivers. 15 tubes (including rectifier), 2 stages preselection, 2 RF stages. Output is push-pull 6V6GT providing 8 watts undistorted. Sensitivity at 5 millivolts is 2 microvolts up to 21.5 MC, and 4 microvolts 21.5 to 42 MC. Coverage: (1) 550 KC to 1.62 MC, (2) 1.5 to 3.1 MC, (3) 2.9 to 5.9 MC, (4) 5.75 to 11.5 MC, (5) 10.3 to 21.5 MC, (6) 204 to 42 MC. **Six position Selectivity:** (1) IF Broad, (2) IF Medium Broad, (3) IF Sharp, (4) Xtal Broad, (5) Xtal Medium Broad, (6) Xtal Sharp. Calibrated band-spread and micrometer scale tuning, both with fly wheel action. Beat frequency oscillator. Adjustable noise limiter. Bass boost. 10, 20, 40 and 80 meter amateur bands calibrated. Wide angle "S" meter. Band pass audio filter. Signal-to-image ratio. Phono Jack for standard phone plug. Receptacle for DC Vibrapak (listed above). Speaker output impedance 5000 and 500 ohms for PM reproducer. Cabinet Size 20½x10x14¼-in. Gray metal finish. For 110 volt 60 cycle AC. Shpg. wt., 87 lbs. *Not Mailable.*

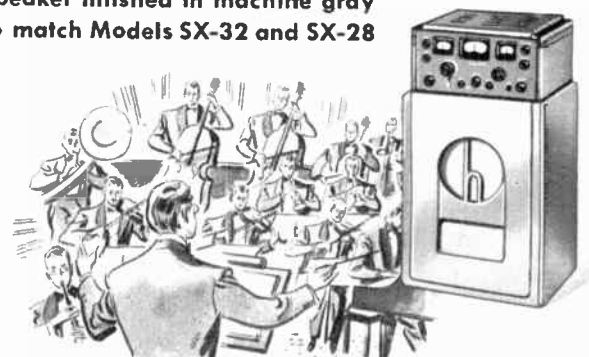
**57 NPM 17992**—With tubes and Crystal. Less speaker. \$179.50

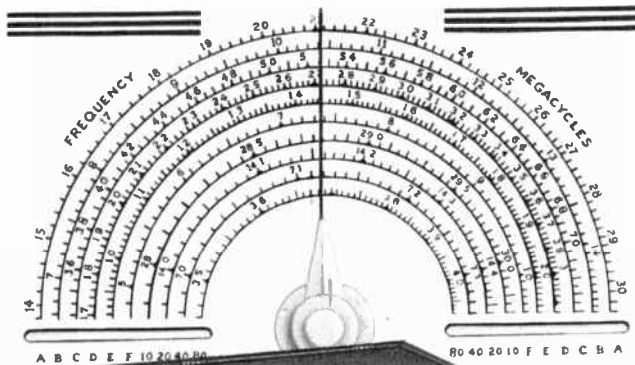
**57 NPM 17995**—Hallicrafters-Jensen bass-reflex enclosure with 12-inch speaker. Shown Size 30x16x22½-inches. Shipping weight, 72 pounds. \$34.50

**57 NPM 17993**—Hallicrafters-Jensen bass-reflex enclosure with 8-inch speaker. Size 23½x10¼x17½ inches. Shipping weight, 67 pounds. \$29.95



Speaker finished in machine gray to match Models SX-32 and SX-28





### National NC-200 Receiver

- Twelve Tubes Including Rectifier Tube
- One Stage of Pre-Selection—Two I. F. Stages
- Newly Developed Tuning in Ten Ranges
- Coverage Continuously 490 KC to 30 MC

**\$174<sup>50</sup>**  
Cash  
Only \$36.00 Down

Super-quality twelve tube communications receiver! Features an entirely new tuning and bandswitching arrangement providing TEN accurately calibrated ranges, each having an individual dial scale. Six for general coverage of 490 KC to 30 MC and four band spread ranges for the 10, 20, 40 and 80 meter amateur bands. Note that the 500 KC marine frequencies are covered. Single control tuning. Good design has eliminated need for antenna compensator. Sensitivity is particularly high—an input signal of only one microwatt provides 1 watt of audio output. New R.F. coupling circuit maintains full sensitivity up to highest frequency covered by receiver. Amazingly high signal to noise ratio; better than 30 db at 10 meters. New high frequency oscillator eliminates detuning effect of R.F. gain control. Frequency drift practically eliminated by use of temperature compensating condensers in R.F. and first detector circuits as well as high frequency oscillator. New crystal filter of six step adjustability provides equal utility in both phone, C.W. A.V.C. holds audio output within 2 db. Tubes used 1-6SK7, R.F. pre-selector, 1-6K8 first detector, 1-6J5 H.F. oscillator, 1-6SK7 First I.F., 1-SK7 Second I.F., 1-6C8G Second detector-Noise limiter, 1-6SJ7 A.V.C., 1-6SJ7 B.F.O., 1-6F8G Phase Inverter, 2-6V6 output, 1-5Y3G Rectifier. For 110 volt 50-60 cycle A.C.

Handsome gray crackle finish steel cabinet. Size, 19¼x10½x12¼ in. Here is a communications receiver that is one of the very best made. You can afford it, too... on Sears Easy Terms. It costs so little by the month when you buy on this convenient plan. See Page 2 for details. Not available. Shipping weight, 85 pounds.

57 NPM 17961—Complete with tubes and 8-inch speaker in matching cabinet, size, 15½x10½x9¾ in. . . . . \$174.50



### New National NC-45 Receiver

**\$57<sup>50</sup>**  
Cash  
Only \$12.00 Down

- 8-tubes including Rectifier Tube.
- Automatic Noise Limiter
- For AC or AC-DC Operation
- Two I.F. Stages

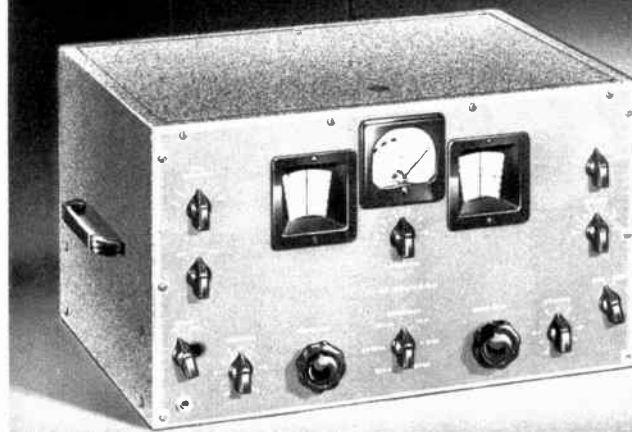
Here is the new popular priced National receiver about which the hams are talking. Covers 540 K.C. to 30 M.C. in 4 bands. Employs an efficient superhet circuit—8 tubes including rectifier, 6K8 first detector and oscillator; two 6L6 I.F. stages with permeability tuned iron core transformers; 6SQ7 second detector—AVC—first Audio; 6H6 self adjusting series valve noise limiter; 25L6G output and 25Z5 rectifier. CW oscillator is a 6J7. Dual tuning for general coverage and band spread. Tuning scales accurately calibrated in megacycles. Electrical band spread uses a separate two-gang capacitor with separate dial. Separate audio and I.F. gain controls. Stand-by position. Terminals for remote stand-by control on rear of chassis. Antenna connections for either doublet or conventional system. Black crackle finish steel cabinet.

57 NP 010669—NC-45. Receiver complete with tubes and 8-inch speaker in matching cabinet. For 105-130 volt AC or DC operation. Shpg. wt., 45 lbs. . . . . \$57.50

57 NP 010870—NC-45A. Same as above except for 105-130 volt 50-60 Cycle AC operation only. Shipping weight, 45 pounds. . . . . \$57.50

See Page 2 for notice regarding possible changes in prices

6 . . SEARS, ROEBUCK AND CO.



### Hammarlund HQ-120-X Receiver

- 12 Tubes Including Rectifier Tube
- Full Range Crystal Filter
- One R. F. Stage—Three I. F. Stages
- Noise Limiter—Calibrated Dial

**\$168<sup>00</sup>**  
Cash  
Only \$36.00 Down

Never before have so many outstanding features been built into a single receiver. This ultra-modern 12-tube set has a range from 540KC to 31MC. (9.7-555 meters). It is designed to meet the demands of serious amateurs and short wave experimenters. This is no ordinary receiver, no redesigned broadcast set . . . it is specially engineered from start to finish for exacting communications work. Because of its construction, the inclusion of the broadcast band in no way lessens the efficiency of the set at higher frequencies.

Equipped with the new full range crystal filter that opens up a new field in radiophone communication; special high gain R.F. stage with antenna compensator; uniform sensitivity; three I.F. stages with silvered mica condensers and permeability tuned transformers; exclusive tuning condenser design; calibrated dial; noise limiter, and many others. The stability, sensitivity, and selectivity of the new "HQ-120-X" are exceptionally fine. The voltage regulated power supply provides constant voltage to the high frequency oscillator. This, together with special oscillator circuit, provides a degree of stability high enough to warrant calibrating the band-spread dial in megacycles for each amateur band from 80 to 10 meters inclusive. This dial has an additional 0-200 scale for calibration at other frequencies. The general coverage dial is also calibrated in megacycles. High Gain R.F. stage with its antenna compensator control, provides maximum image rejection and highest signal-to-noise ratio with all types of antennas. By special circuit arrangement, the gain of the entire receiver is held relatively constant in all amateur bands and provides accurate "S" meter readings. Another feature is the uniform output of the crystal filter.

Specially designed 15-gang tuning condenser in the "HQ-120-X" provides constant band-spread throughout its entire range. There are six sections in the main tuning condenser, and nine sections in the band-spread condenser. The special design of the tuning condenser, combined with an unusual dial arrangement, provides 310 degrees band-spread on each amateur band.

Noise limiter designed to effectively remove automobile ignition interference and similar disturbances. It works with or without the AVC system and there are no delicate threshold controls on the panel.

The new crystal filter circuit is an outstanding HAMMARLUND development. Because of its full-range selectivity, this filter is applicable to both phone and C.W. reception. There are six positions on the selectivity switch, and these are controlled from the panel. Three positions for phone reception, the first of which provides a band width wide enough to admit good quality music. Two positions in the selectivity range are for single C.W. reception. The sixth position cuts the crystal out of the circuit. Black etched panel and crackle finish metal cabinet with handles. Measures 17¼ in. long x 10 in. high x 14¼ in. deep. Operates on 105 to 125 volt 50-60 cycle A.C.

57 NP 018433—HQ-120-X. Receiver complete with tubes, crystal filter and 10-in. P.M. Dynamic speaker, less speaker cabinet. Shpg. wt., 56 lbs. . . . \$168.00

57 NP 018434—SC-10. Cabinet for 10-in. P.M. speaker finished to match receiver. Size is 12½x12½x7 in. Shipping weight, 8 pounds. . . . . \$3.90



### Hammarlund Super-Pro

**\$318<sup>00</sup>**  
Cash

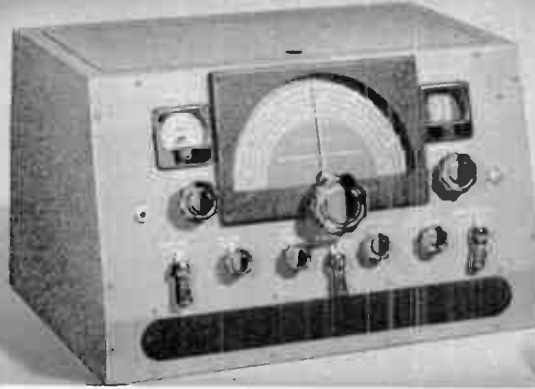
Write for Terms

- 18 Tubes Including Rectifier Tube
- 12 Gang Band Spread Condenser
- Two R.F. Stages—Three I.F. Stages
- Improved Noise Limiter

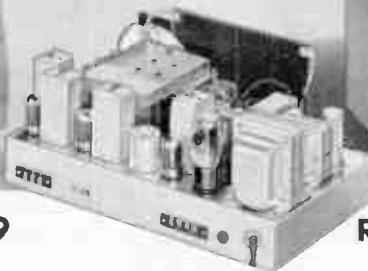
The last word in receiver engineering! Full range selectivity from less than 100 cycles to approximately 16 KC. Crystal filter has five ranges of selectivity varying from "single-signal," to 2½ KC. for phone reception. Improved noise limiter. 18 tubes including rectifier tube. Band spread system with a 12-gang band spread condenser. Exclusive cam-operated band changing knife switch. Six silver-plated contact fingers insure dependable low resistance contact for each circuit. No moving part carries current to cause noise or to provide stray coupling. Silver-plated shortcircuiting springs automatically short out the unused coils at all times. Also has a beat oscillator, AVC, calibrated main tuning dial, two stages of tuned R.F. for image-free reception and high signal-to-noise ratio. 14-watt audio amplifier, separate power supply, relay terminals, ear-phone and phono-pick-up connections, and a beautiful metal cabinet. Receiver measures 21½ in. long x 14¼ in. deep x 12¼ in. high. Power unit 13x7½x8½ in. Tubes and 10-inch Speaker included. For 110 volt 60 cycle AC. Shpg. wt., 120 lbs.

57 NPM 18426F—Covers 15 to 560 meters. . . . . \$318.00

57 NP 18431F—Speaker Cabinet. Shipping weight, 12 pounds. . . . . \$5.10  
Shipped from factory in New York, from where you pay transportation.



For Sears  
Easy Terms  
See Page 2



### DeLuxe Cabinet . . . . RME99

**\$166<sup>32</sup>**  
Cash

Only \$36 Down

- Exclusive Crystal Band Pass
- 12 Tubes Including Rectifier
- Regulator Controlled Oscillator
- Covers 540 KC to 33,000 KC
- Automatic Noise Limiter
- Six Position Selectivity
- Velvet Smooth Control
- Beam Power Amplifier

Designed to satisfy even the most critical hfm or professional operator. Tuning range 540 KC to 33,000 KC in six bands. Full calibrated band spread from 3500 to 4000 KC; 7000 to 7300 KC; 14,000 to 14,500 KC; and 28,000 to 30,000 KC. Band spread scale is semi-circular—8 inches in diameter with indirect flat illumination.

White calibration on dead black background for maximum eye comfort . . . full visibility. Band spread scale carries additional arbitrary scale permitting calibration of any narrow band of frequencies within the tuning range (excluding broadcast range). Illuminated meter calibrated with carrier level in units of 6 decibels and also in R units. Utilizes voltage regulator tube for maximum stability. Employs high Q permeability adjusted R.F. and oscillator coils on the lower frequency ranges.

Uses new wide spacing oscillator condenser sections for extremely high stability at high frequencies. Low temperature drift provided by highest quality components and improved design of chassis for maximum dissipation of developed heat. Incorporates grounded cathode type high frequency oscillator for improved stability. Receiver provides for uniformly high sensitivity with high signal to noise ratio. New type crystal filter with six degrees of I.F. selectivity and controlled phasing. I.F. frequency of crystal is 465 KC. Solid cast aluminum chassis frame gives unmatched chassis rigidity and strength. Includes CW beat oscillator with variable pitch control on the panel. Terminals are provided for break-in operation. Relay control circuit for external relay circuit is provided and built-in. Audio output of 4 watts at both 4,000 and 600 ohms supplied by receiver. Employs new highly effective auto-

### Receivers . . . . Standard Cabinet

**\$160<sup>78</sup>**  
Cash

Only \$36 Down

matic noise silencer with panel adjustment for percentage of modulation. Makes it possible to provide more effective silencing for weak, under-modulated, and CW signals. Has both manual and automatic gain control.

Weatherproofed for operation under most adverse climatic conditions. Housed in heavily finished furniture steel cabinet with all controls designated by white lettering on front panel. Chassis is easily removable from cabinet, and accessible from bottom through removal of bottom cover plate. All construction (electrical and mechanical) marks a new high in quality communication equipment, engineering, and manufacturing. All metal components are either non-ferrous or are furniture steel heavily cadmium plated or baked finish. Cabinet 19 in. long by 8 3/4 in. high by 10 1/2 in. deep, wrinkle finished. Top of chassis accessible through hinged lid on top, and external connections accessible on exposed rear chassis. Standard power supply 105-125 volts, 50-60 cycle. Speaker furnished is 8 in. in diameter, Electro-Dynamic Type in metal baffle of matching finish.

57 NPM 10892—RME-99 Receiver in standard steel cabinet. Shown above at right. Size, 19x10 1/2x9 inches. Includes 465 KC Crystal, set of 12 tubes, 8-inch Electro Dynamic Speaker in cabinet to match. For 105-125 Volt, 50-60 Cycle AC. Black or Gray. Slate color. Shipping weight, 69 pounds. Not available . . . . . \$160.78

57 NPM 10893—RME-99 Receiver in DeLuxe Cabinet. Shown above at left. Same as 57 NPM 10892 except in oversize two-tone DeLuxe cabinet. Shipping weight, 72 pounds . . . . . \$166.32



### New RME 43 Receiver

- Coverage 550 KC to 33 MC
- Calibrated, Band Spread Dial
- 6 Position Variable Selectivity

**\$129<sup>12</sup>**  
Cash  
\$28 Down

Covers 550 KC to 33 MC in 6 bands. Six position variable crystal selectivity. High signal to noise ratio. Temperature compensated oscillator components. Four watts audio output. Controls: R.F. Gain, Audio Level, Standby, Band Change, B.F.O. Pitch, Crystal Phase, Tone, and Power On-Off. Headphone Jack. Features a radically new tuning system wherein both general coverage and band spread are operated directly from one control. This provides accurate direct calibration of 5 amateur bands from 160 to 10 meters. All calibration points, band spread or general coverage are located automatically as receiver is tuned. Total band spread available is equivalent to 480 inches. Superior circuit, 9 tubes including rectifier. Two tone gray and black steel cabinet, size 11x10 1/2x11 1/2 inches. For 105-125 Volt 50-60 Cycle AC.

57 NP 010894—RME 43 Receiver complete with tubes, Crystal, eight-inch Electro Dynamic Speaker in matching cabinet. Shipping wt., 27 lbs. . . . . \$129.12

Selling prices on all communication receivers are set by the manufacturer. In view of this we cannot guarantee the prices shown in this catalog for any definite time. We must reserve the right to change our selling price whenever the manufacturer requires us to do so. See Page 2 for details



### Howard Model 437A

- 9 Tubes—One R. F. Stage
- High "Q" R. F. Circuit
- Crystal Filter Available

**\$61<sup>95</sup>**  
Cash  
\$14 Down

One of radios outstanding moderately priced receivers! Uses nine tubes (including rectifier) and incorporates most of the features desired in a fine piece of communication equipment. Has circuit similar to Model 436A shown at right, but with one 6SK7 tube and I.F. stage added. A new three section main condenser gang; band spread condenser gang and coil assembly is provided. Also added are R.F. gain control, crystal in-out switch.

The 6SD7GT R.F. tube is mounted to allow minimum lead length. By proper coil design and short leads, increased sensitivity has been obtained with a minimum of circuit noise. An exceptionally good image ratio results from the extremely high "Q" R.F. circuit. Crystal filter action is very effective.

Steel cabinet is finished in black wrinkle finish to match Progressive Series Accessories. Dimensions: 15 1/2x9 1/4x9 in. deep. For operation on 105-125 volt, 60 cycle AC supply. Only a few dollars down and a small amount monthly will quickly pay for this fine receiver on Sears Easy Terms. See Page 2 for complete details. Shipping weight, 28 pounds.

57 NP 010871—Model 437A Complete with tubes and built-in Jensen Electro Dynamic Speaker, Less Crystal . . . . . \$61.95

57 NP 010872—As above with factory installed Crystal Filter . . . . . \$69.75



### Howard Model 436A

- 8 Tubes (Including Rectifier Tube)
- Trigger Type Noise Limiter
- Coverage 54 K.C. to 43 M.C.

**\$41<sup>75</sup>**  
Cash  
\$10 Down

Engineered to new high standards. Has tuned R.F. stage on all bands. New trigger type noise limiter circuit. Electrical Band Spread employs a separate condenser with linear calibration over 8 in. long covering 340°. Ceramic coil forms used on all oscillator coils. 555 to 7 Meters—540 K.C. to 43 MC.

Eight Tubes: 6SD7GT T.R.F., 6SA7 Mixer Osc., 7SK7 I.F. Amplifier, 6SQ7 Det. and 1st A.F., 6K6G Output, 6J5 B.F.O., 6H6G noise Limiter., 5Y3G Rectifier. Flywheel tuning . . . equipped with the new Howard Inertia Knobs which assure fast, smooth tuning. Used on main tuning and band-spread. Other features found in Model 436A are: beat frequency oscillator, iron core I.F. transformers, built-in Jensen electro-dynamic speaker, silver plated shielding, A.V.C., send-receive switch, headphone jack on front panel, doublet or standard antenna connections, and copper plated chassis. Black wrinkle finished steel cabinet. Size 15 1/2x9 1/4x9 in. For 110-120 volt 50-60 cycle A.C.

57 NP 010873—Model 436A Complete with tubes and built-in speaker. Shpg. wt., 27 lbs. . . . . \$41.75

57 NP 010870—Model 435A. Same as Model 436A above except without Noise Limiter Circuit. Complete with tubes and built-in Speaker. Circuit employs 7 tubes including rectifier tube. Shipping weight, 26 pounds. . . . . \$36.75

# ECHOPHONE Receivers



## Echophone EC-2 Receiver

- Eight Tubes Including Rectifier Tube
- One R. F. Stage on All Bands—One I. F. Stage
- Automatic Noise Limiter
- Separate 5-inch Permanent Magnet Speaker

**\$42<sup>50</sup>** Cash  
\$10 Down

This efficient 8-tube Communication Receiver represents one of Radio's outstanding values. It has 1 stage of R.F. on all bands, one I.F. stage with all I.F. coils wound on ceramic coil forms. Automatic noise limiter operates with a flip of a switch. Separate B.F.O. for C.W. operation. Frequency coverage includes broadcast band and extends through 10 meter band. Calibrated bandspread scale on 80-40-20 and 10 meter amateur bands. Electrical bandspread at all frequencies in tuning range.

**Controls:** Main tuning, Band spread tuning, audio gain, Band switch, AVC-B.F.O. on-off switch, Automatic noise limiter on-off, Receive-standby switch, Speaker-phones switch.

**Tubes Used in Model EC-2:** 6SD7GT R.F. Amplifier, 6K8 Converter, 6SK7 I.F. Amplifier, 6SC7 Audio Amplifier and B.F.O. 25L6GT Power Output, 25Z6GT Rectifier, 6H6 1st Detector and Automatic Noise Limiter, K35 Ballast Tube.

**Band Coverage:** Band 1—545 to 2100 KC; Band 2—2.1 to 8.1 M.C.; Band 3—7.9 to 30.5 M.C. For 110 volt AC or DC operation. Gray wrinkle finish. Size, 8½x9¾x15¼ inches.

57 NP 019705—EC-2 Receiver and tubes with separate speaker (speaker not illustrated). Shipping weight, 20 pounds.....\$42.50



## Echophone EC-3 Receiver and Speaker

- 9 Tubes Including Rectifier
- Automatic Noise Limiter
- 4-Position Variable Selectivity
- Preselection All Bands
- CW Monitor
- Separate Speaker
- Crystal Filter
- Fly Wheel Tuning

**\$59<sup>50</sup>** Cash  
\$12 Down

Features a stage of R.F. on all bands. Two stages of I.F. amplification. Crystal filter circuit. Four position selectivity: (sharp crystal, broad crystal, sharp I.F. and broad I.F.)

Crystal phasing condenser enables operator to eliminate objectionable heterodynes and obtain single signal C.W. operation. Automatic noise limiter. Broad crystal position allows phone reception with ability to balance out interfering heterodynes. Phone tip jacks connected to isolated transformer winding, thus insulating phone jack circuit completely from power circuit.

Separate B.F.O. for C.W. reception with variable pitch control. Coverage includes broadcast band and extends through 10-meter band. Calibrated bandspread scale on 80, 40, 20, and 10-meter amateur bands. Electrical bandspread, fly-wheel tuning at all frequencies in the tuning range. Monitoring circuit enables operator to listen to his own C.W. transmission.

**Controls:** Main tuning, Bandspread tuning, R.F. gain, Audio gain, Crystal phasing, B.F.O. pitch, Band switch, Selectivity control, AVC-BFO on-off switch, Speaker-phones switch, Automatic noise limiter on-off, Monitor-receive-standby switch.

**Tubes Used:** 6SD7GT-1st R.F. Amplifier, 6K8 Converter, 2-6SK7-I.F. Amplifiers, 6H6-2nd detector and Automatic Noise Limiter, 6SC7-1st Audio and B.F.O. 25L6GT Output, 25Z6GT Rectifier, K29D Ballast Tube.

**Band Coverage:** Band 1: 545 to 2100 KC. Band 2: 2.1 to 8.1 M.C. Band 3: 7.9 to 30.5 M.C. For 110 volt AC or DC. Gray wrinkle finish. Size, 8½x9¾x15¼ in. Matching 6-inch P.M. Speaker.

57 NP 019706—Model EC-3 Receiver. Complete with tubes, external speaker and crystal. Shipping weight, 25 pounds.....\$59.50



## Echophone EC-1 Receiver

- Three Bands Cover from 545 KC. to 30.5 MC
- Six Tubes Including Rectifier Tube
- Self-Contained Permanent Magnet Speaker
- Electrical Bandspread

**\$24<sup>50</sup>**

For the beginning Radio Amateur or short wave fan. Priced to fit any purse. Gives real communication receiver performance. Offers these modern features: Covers 545 KC to 30.5 MC (550 to 9.85 meters) in three bands. Electrical bandspread. Beat frequency oscillator. Good selectivity and exceptional sensitivity. Bandspread logging scale. Complete isolation of headphones through phone circuit transformer. Dial calibrated in megacycles with all important service bands indicated.

**Tube lineup in Model EC-1:** 12K8 converter, 12SK7 I.F. amplifier, 12SQ7 second detector, AVC, first audio, 35L6PT second audio, 12J5 beat oscillator, 25Z5 rectifier.

**Controls:** Main tuning, bandspread, band switch, audio gain, standby, speaker-headphone switch, combined B.F.O.-A.V.C. on-off. Phone tip jacks and doublet antenna connections on rear of chassis. Metal cabinet, gray wrinkle lacquer finish. Speaker mounted in receiver cabinet. Size, 7½ inches high x 10½ inches wide x 7¾ inches deep. For 110 volt AC-DC operation. Available on Sears Easy Payment Plan. For details see Page 2.

57 NP 018819—Shipping weight, 13 pounds.....\$24.50

Wherever you go this  
**ECHOPHONE PORTABLE**  
Will Keep you Informed  
On the Latest World Events!

- Amateur Broadcasts
- Foreign News
- Aviation Broadcasts
- Standard Broadcasts



## Echophone EC-4 Portable Receiver

- Compact—Light in Weight—Complete
- Tuning Range from 545 KC to 30.5 MC
- AC-DC or Self-Contained Battery-Operated
- Two Built-in Loop Antennae Hinged to Cabinet
- Electrical Bandspread
- Automatic Noise Limiter
- Panel Controls Protected
- Two 455 KC I.F. Stages

**\$49<sup>50</sup>** Cash  
\$10 Down

New portable communications type receiver with many modern features. Gives you the same notch performance that regular type communication receivers do. Compact—light in weight—entirely self contained! Tuning range is 545 KC to 30.5 MC (550 meters to 9.85 meters) in four bands. Two 455 KC I.F. stages. Electrical bandspread. Automatic Noise Limiter. Two built-in loop Antennae, hinged to the cabinet and independent of each other. Each of these Antennae have the optimum inductance value for the frequencies on which they are designed to work. They are automatically brought into the circuit as position of band switch is changed. Terminals for external antennae. All panel controls protected by hinged front door. Tubes and batteries accessible.

**Panel Controls:** Main tuning control with dial calibrated in megacycles. Electrical bandspread control with separate logging scale, volume; power switch; B.F.O. on-off; standby switch. Automatic Noise Limiter on-off; phone jack.

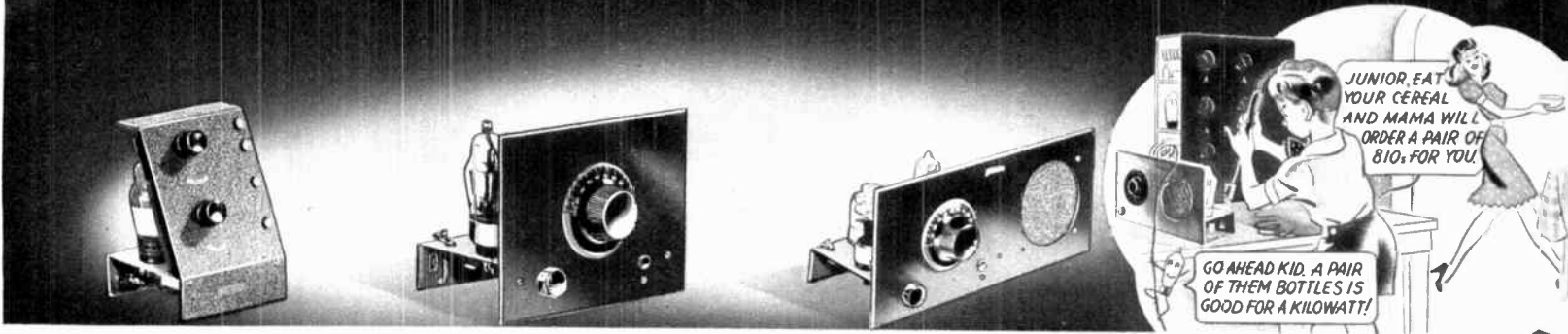
**Tube lineup:** IR5 oscillator, IR5 converter, 2-IT4 I.F. stages; IS5 second detector, AVC; IS5 B.F.O. and noise limiter; 2-3Q4 power tubes; 50Y6 rectifier. Self-contained power supply consists of one Eveready No. 482 and two Burgess 2F4 batteries; or set will operate on 110 volt AC or DC without circuit changes.

Substantial wrinkle-finish steel cabinet, size 9¾ inches high, 6½ inches wide and 5 inches deep. Built-in 3½-inch Permanent Magnet speaker.

57 NP 019707—Complete with tubes and batteries. Shipping weight, 16 pounds.....\$49.50

Selling prices on all Echophone Communication Receivers are controlled by the manufacturer. If they should require us to advance the prices shown in this catalog, we must do so even though the catalog has already been mailed to you. For more complete information regarding possible price changes, See Page 2.





## Easy-to-Assemble Receiving Kits for the Junior Ham!

### Philmore Beginners' Kits

These simple receiver kits make radio sets which actually work. With plug-in coils available they tune from 15 to 600 Meters. Battery models use one 1½ volt "A" battery and one 45 volt "B" battery. Instructions. For headphone reception. Coils supplied cover 200 to 530 meters.

- 57 NP 10445—1-Tube Battery Kit.** Uses 1 Type 30 tube. Less batteries and tube. Shpg. wt., 2 lbs. \$1.27
- 57 NP 10446—2-Tube Battery Kit.** Uses 2 Type 30 tubes. Less batteries and tubes. Shipping weight, 4 pounds. **\$1.49**
- 57 NP 10490—2 Tube AC-DC Kit** for use on 110 volt AC or DC. Uses 2 Type 76 tubes. Less tubes. Shipping weight, 3 pounds. **\$2.25**
- 57 NP 10447—Short Wave Coils** for battery Kits. 13 to 240 meters. Shipping weight, 8 ounces. Per Set of 4 coils. **72c**
- 57 NP 10448—AC-DC Set of 4 Coils** otherwise same as above. Shipping weight, 8 ounces. **72c**

**\$1.27**

1-Tube Kit

### Meissner Students' Kits

Has an efficient circuit which uses the new 1.4 volt tubes giving greater battery economy and high sensitivity. Each kit includes coils for the broadcast band; no tubes or batteries.

- 57 NP 18408—1-Tube Kit** for headphone reception. Uses 1-1E4G tube, 1-1½ volt "A" battery and 1-45 volt "B" battery. Shipping weight, 3 pounds. **\$3.23**
- 57 NP 18409—2-Tube Kit.** Requires 1 1C5G, 1-1E4G tubes and 1-1½ volt "A" and 2-45 volt "B" batteries. Shipping weight, 3 pounds. **\$3.88**
- 57 NP 18410—3-Tube Kit.** Requires 1-1C5G, 1-1E4G, 1-1H5G tubes; 1-1½ volt "A," 2-45 volt "B," 1-7½ volt "C" batteries. Shipping weight, 3 pounds. **\$4.85**

**\$3.23**

1-Tube Kit

### Meissner Plug-in Coils

- 57 NP 18411—70 to 200 Meters.** Wt., 4 oz. Ea. **41c**
- 57 NP 18412—35 to 70 Meters.** Wt., 4 oz. Ea. **41c**
- 57 NP 18413—17 to 35 Meters.** Wt., 4 oz. Ea. **41c**

### Philmore AC-DC Kits

Easy-to-build Kits composed of better parts than the Philmore Beginners' Kit shown at far left. Powerful enough to operate a loud speaker which is included in kit. Set of coils furnished covers the broadcast band. With extra coils listed below range may be extended to cover short wave bands also. All parts are included except tubes and batteries.

**\$7.45**

3-Tube Kit

- 57 NP 10981—3-Tube Battery Kit.** Tubes required 1-1C5G, 2-1H5G. Batteries required 1-1½ volt "A," 2-45 volt "B" and 1-7½ volt "C." Shipping weight, 5 pounds. **\$5.95**
- 57 NP 10983—Set of 4 Coils** to cover 17 to 200 Meters. Shipping weight, 8 ounces. **72c**
- 57 NP 10484—3-Tube Electric Kit** for operation on 110 volt AC or DC. Tubes required 2-Type 6C6 and 1-25A7. With Broadcast Coils—Less Tubes. Shipping weight, 6 pounds. **\$7.45**
- 57 NP 10494—Set of 6 coils** to cover 17 to 200 Meters. Shipping weight, 12 ounces. **\$1.44**



### Meissner Deluxe "Signal Shifter"

ECO, equipped with oscillator keying for CW "break-in" operation. Allows instant frequency change in any given band—right from the operating position. Low-impedance link output circuit permits coupling to any stage in the transmitter; has RF power output of approx. 7½ watts on 1.7, 3.5, 7, and 14 MC bands. Three-way control switch on panel for "Standby," "Manual On," or "Automatic On"; built-in relay provides full automatic on-off control with transmitter control switch. "Manual-On" position permits checking frequency at will to move to any desired spot in the band. With one set of coils and tubes (1-6F6, 1-6L6, 1-5X4G, 1-VR150, 1-VR105). For 115-volt 60-cycle AC. Black or gray finish. Specify choice, also wave length of coil wanted. Available on Sears Easy Payment Plan. See Page 2.

**57 NP 017955—Shipping weight, 35 lbs. \$51.20**

#### Additional Coils

For 10, 20, 40, 80 or 160-meter band. **Stofe band.**

**57 NP 18407—Shpg. wt., 2 lbs. Per set of 3. \$2.69**



### Stancor 25-B Transmitter Kit

Here is a simple CW transmitter with self-contained antenna tuning. Operates with 25 watts input to a 6L6G on all bands from 160 to 20 meters.

Oscillator circuit is a grid-plate type permitting two-band operation with 160, 80 and 40 meter crystals. Only one inexpensive plug-in coil is used for each band of operation. L-seway is provided for trying other types of oscillator circuits, such as the tri-tet. Well filtered high voltage is derived from the power supply which uses a Type 80 tube. No high voltage is present on top of the chassis.

Either a low impedance or variable impedance output is available for coupling various types of antenna systems. Pilot light serves as tuning indicator and high voltage fuse. Clean cut, break-in keying circuit. Accessories required: End Link Air-Wound Plug-in coil, Mounted crystal, 1 6L6 and 1-80 tube, 1 6.3-volt 150 MA. Pilot light bulb. Chassis size, 9½x6¼x2 inches. Shipping weight, 10 pounds.

**57 NP 10199—Kit less accessories described above. \$17.95**

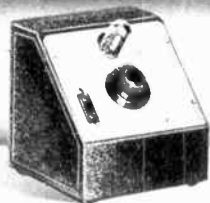
SEE PAGE 2 FOR NOTICE CONCERNING PRICES IN THIS CATALOG.

### Stancor 10-P Transmitter Kit

Compact, low power phone CW transmitter kit, covering four-band operation. Uses a 6J5 tube in an untuned crystal oscillator circuit and a 6L6 as an R.F. amplifier. Audio-section consists of a 6L6 in Class A-1 plate and screen modulating the 6L6 R.F. amplifier. Kit requires single button carbon mike. High percentage of modulation can be obtained with a class "C" R.F. amplifier input of 12 Watts. For CW operation an amplifier input up to 20 watts is allowable. Frequency range, 1.7 to 14.4 MC Crystal controlled. Cabinet size: 10¾x6½x6½ inches. For 110-volt 50/60 cycle A.C. Available on Sears Easy Terms for only a few dollars down and a small amount monthly. See Page 2 for complete details.

**57 NP 017950—Kit of Parts and Instructions for assembling. No tubes, crystal, coils, meter, microphone or key. Requires Buc end link, 50-watt plug-in coil. See Page 18. Shpg. wt., 14 lbs. \$26.95**

**57 NP 18351—0-100 D.C. Triplett Square Type Milliammeter. Shipping weight, 2 pounds. \$3.60**



**\$1.69**

### Philmore Blackbird Set

An efficient crystal receiving set which will receive broadcasting through headphones over a considerable distance. Metal cabinet with attractive front panel. Completely assembled. Black crackle finish. Shipping weight, 3 lbs. **57 NP 18772—Less earphone and antenna. \$1.69**

#### Galena Crystal

Galena Crystals are all carefully tested at factory. Very sensitive in reflex and crystal sets. Shpg. wt., 4 oz. **57 NP 18776—Each 6c**



### Monarch Crystal Set

A sensitive and attractive crystal set. Tunes stations as far as 25 miles away with good tone and volume. Has dust-proof, glass-enclosed crystal and engraved calibrated dial with baknob. Crackle finish metal case. Completely assembled. Shpg. wt., 1 lb. 3 oz. **57 NP 10488. \$1.21**

#### Fixed Crystal

Point of highest sensitivity determined at factory and fixed to prevent variation. Shipping weight, 4 ounces. **57 NP 18775. \$46c**

Best results are obtained with Crystal Sets when long, outside Antenna and 2000 ohm earphones are used. See Page 13 for Earphones, Page 27 for Antenna wire.



### Breadboard Crystal Set Kit

Supplied in easy-to-assemble kit form. Will provide unusually fine reception of local broadcast stations. Kit contains breadboard, wound coil assembly, variable condenser, crystal detector, connectors, hardware, wire, easy-to-follow instructions, and diagram. Easy to build. **57 NP 10489—Shpg. wt., 4 lbs. \$1.40**

#### Crystal Detector Stand with Meter Tested Crystal

Swivel arm contacts any point on crystal quietly and easily. Uses clip terminals. Furnished with extra sensitive meter tested crystal. **57 NP 10380—Shpg. wt., 3 oz. \$1.4c**



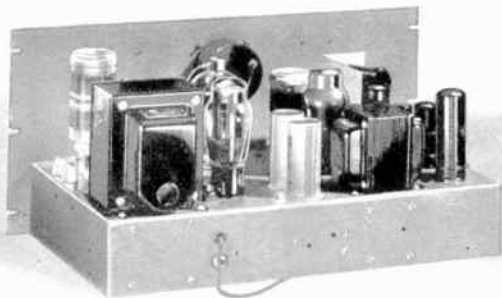
### Philmore Supertone Set

This compact crystal set will provide good reception from broadcasting stations as far as 25 miles away. Tunes in stations with surprising clarity and volume. It is very sensitive and reliable. Crystal Unit is enclosed in a dust-proof glass cover. You can have hours of fun with this inexpensive Supertone set. Bakelite base. Completely assembled. Shipping weight, 1 pound 8 ounces. **57 NP 10479. \$79c**

#### Covered Crystal Only

Dustproof—super sensitive crystal. Glass enclosed. Readily adjustable. **57 NP 18774—Shpg. wt., 8 oz. \$23c**

# STANCOR Transmitter Kits

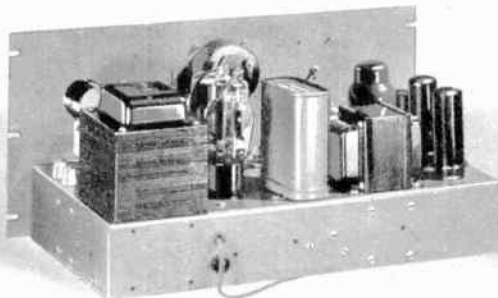


## Stancor Kit "40-P"

High performance radiophone-telegraph transmitter of 40 watts input. Uses a simple straightforward circuit consisting of a 6J5G crystal oscillator, 6L6G buffer-doubler, and a TZ20 (or RK12 if 6.3 volt filament tap is used) Class C Amplifier. Three tuned circuits employing one wound and two Bud, B. and W., or Johnson air-wound end link plug-in coils for each band... giving a variety of crystal controlled output frequency combinations. Audio section consists of a high gain 6SJ7 input, a 6N7 driver and two 6L6's in class AB1 as modulators. Crystal or similar microphone may be used. Speech amplifier and modulator has sufficient output to provide 100% modulation. Heavy duty power supply uses a 5Z3 rectifier. All metering is done in the negative return of the high voltage using a meter switching system. Break-in CW terminals on rear of Chassis. A 17x10x3-inch chassis furnished drilled and punched. Slate-gray panel size 8 3/4 x 19 is also included. Accessories required: 0-100 3-inch DC Milliammeter, coils as stated above, crystal, cabinet and 1-6J5G, 1-TZ20 or RK 12, 1-6SJ7, 1-6N7, 2-6L6, 1-5Z3. For 110-volt 60-cycle A.C.

**\$58<sup>75</sup>** Cash  
Less Accessories  
**\$12 Down**

57 NP 010196—40-P Kit of parts less meter, coils, crystal, cabinet and tubes. Shpg. wt., 45 lbs... \$58.75  
57 NP 018093—Cabinet as illustrated. Slate color, Gray or Black. Shipping weight, 30 pounds... \$8.08



## Stancor 60-N Transmitter

Self contained 60-watt Phone—C. W. Transmitter Kit. Emission: A1-A3. Output circuit: Low impedance two-wire line. Power input to final: 60 watts phone and C.W. Frequency range: 1.7 to 14.4 M.C. (28-30 M.C. output with alternate circuit). Crystal Control. Power Consumption 275 V.A. at 115 volts 60 cycles. Chassis dimensions 17x10x3 inches. Tubes required: 1-6L6G, 1-HK24, 1-6SJ7, 1-6N7, 2-7L7, 1-5Z3, 1-RK60. Coils required: L1-Bud "OCL" or B. and W., "Junior" Center Link for each band; L2-Johnson tube socket center link 160 meter for 160 and 80 meters; separate coil for each of other bands. Meter required: 0-200 M.A. Triplett 3-inch. 8 3/4 x 19-in. panel. For 110-volt 60-cycle A.C.  
57 NP 018092—Kit less cabinet, tubes, coils, crystals, and meter. Shpg. wt., 45 lbs. .... \$70.50  
57 NP 018093—DeLuxe Cabinet as shown above. Gray metal fnish. Shipping weight, 30 lbs. .... \$8.08

**\$70<sup>50</sup>** Cash  
Less Accessories  
**\$16 Down**

### New Stancor Hamanual

Valuable circuit information on transmitter Kits.  
57 NP 10194—48 pages. Postpaid in U. S. A. ... 15c



## Stancor 110-C Transmitter Kit

Self contained 100-watt C.W. or Phone, featuring Cathode Modulation. R.F. carrier power is therefore greater than if conventional plate modulation were used. Amateurs who have gone over to this newer system have generally found it both economical and satisfactory. Type of emission: A1 and A3. Output circuit: Low impedance two-wire line. Power input final stage: 80 to 100 watts. Frequency range 1.7 to 1-4.4 M.C. (28-30 M.C. with Alternate Circuit). Crystal Control. Power consumption 322 V.A. at 115 volts 60 cycles. Chassis dimensions 17x10x3 inches. Tubes used 1-7L6G, 1-812, 1-6SJ7, 1-6C5, 2-6V6, 1-5Z3, 1-RK60. Coils required: L1-Bud "OCL" or Barker and Williamson Center Link for each band; L2-Johnson tube socket center link 160 for 160 and (or) 80 meters, separate coil for each of the other bands. Meter required, Triplett 327A (3-inch) 0-200 D.C. M.A. Crystal, Velocity, or dynamic microphone may be used. Two switches in power supply for preheating of filaments of tubes before plate power is applied. 8 3/4 x 19-in. panel. Chassis is correct size for rack mounting. For 110-volt 60-cycle A.C.

**\$70<sup>75</sup>** Cash  
Less Accessories  
**\$16 Down**

57 NP 018095—Kit of parts, less tubes, coils, crystal, cabinet and meter. Shipping weight, 50 pounds. \$70.75  
57 NP 018093—DeLuxe Cabinet as shown. Slate color, Gray or black. Shipping weight, 30 pounds. \$8.08



## Stancor 69 Transmitter Kit

Sixty-watt input crystal controlled transmitter. Works either on phone or C.W. on any band from 10 meters to 160 meters. All controls are conveniently located on front panel. Has front door with interlocking switch which permits coil and crystal changing from front. Has 3-inch dial scale meter equipped with switch. Cabled wiring harness makes hookup quick and easy. Tubes used 1-Hy 69 R.F. Amplifier, 1-6AC7 Mike input, 2-6L6 Modulators, 1-83 and 1-80 rectifiers, 1-6V6 crystal oscillator. Kit price includes parts, special meter, and cabinet, size 16x9 1/2 x 11 inches. Coils required: Barker and Williamson end Link Junior, Barker and Williamson center link Junior, Barker and Williamson variable link Junior. For 110-volt 60-cycle A.C.

**\$75<sup>00</sup>** Cash  
Less Accessories  
**\$16 Down**

57 NP 010197—Kit of parts less tubes, crystal, and coils. Shipping weight, 45 pounds. .... \$75.00



## It's Easy to Assemble Stancor Transmitter Kits

### Stancor DC-3 Transmitter Kit

Extremely compact, lightweight radio phone transmitter. Designed for aircraft, marine, portable and emergency applications where source of power is 6 or 12 volts D.C. Entirely self-contained. Maximum of two crystal controlled 2 and 6.5 M.C. Channels selectable from front panel. 8 to 9-watt carrier. Accessories needed: 1-6J5GT (or 12J5GT), 2-6V6GT tubes, crystals, single button carbon "mike" with relay switch and miniature antenna change-over relay (optional). Gray metal cabinet, size, 6x6x6 3/8 inches.  
57 NP 010198—Kit of Parts including circuit components, cabinet, shock absorbing mountings, eight-foot battery cable, and two vibrators (one spare). Shipping weight, 30 pounds. .... \$37.75

**\$37<sup>75</sup>** Cash  
Less Accessories  
**\$8 Down**

Sears Easy Terms offer an easy way to own one of these Stancor Transmitter Kits. See Page 2 for details.



# You'll Get Plenty of "Sock" from a Hallicrafters Transmitter



## New Hallicrafters S-33 2 1/2-Meter Transceiver

Complete, self contained 2 1/2-Meter radio station including transmitter and receiver. Solight and compact that it can easily be carried while in operation. Tuning range 112-118 MC. Uses 1-3Q5 tube as R.F. Oscillator in transmit position and as self-quenching detector in receiving position. 1-1H5 tube as microphone amplifier for transmitting and as 1st audio stage when receiving. 1-3Q5 as power output Stage for receiving and as modulator for transmitting. To talk, press the button; to listen, release it. Tuning Control functions as frequency setting control for either receiving or transmitting. Built-in 3 1/2 inch P.M. speaker, serves also as mike when transmitting. Matched antenna mounts on side of cabinet which is 10 in. high, 6 1/2 in. wide, 4 1/2 in. deep. Total weight including batteries is only 16 lbs. Gray metal finish. Carefully engineered by Hallicrafters . . . the world's largest builder of amateur radio equipment. Complete within itself . . . no additional accessories to carry, no extras to buy. And don't forget that like everything else at Sears, this Hallicrafters Sky Trainer is available on Easy Terms. Just a few dollars monthly. See Page 2 for details.

57 NP 019620—Model S-33 Sky Trainer. Complete with tubes, batteries, and Antenna. Shipping weight, 18 pounds. . . . \$29.50

**\$29.50**  
Complete

## Hallicrafters HT-6 25 Watt Phone and CW Transmitter

A real thrill awaits you when you operate the Hallicrafters HT-6 transmitter. It is new in design principles, a real amateur phone and CW transmitter in every respect and a quality unit throughout. Using either an 807 or an RK39 in the final R.F. stage the power output is 25 watts on most bands. Frequency range is 1.7 MC to 60 MC. Coils for any three amateur bands may be plugged in and pretuned.

Tube complement: 1-6L6 Osc.-dbl., 1-RK39 or 807 final R.F. amplifier, 1-6F5 microphone amplifier, 1-6J5 Audio Amplifier, 2-6L6G modulators and 2-5Z3 rectifiers. Power drain about 120 watts CW and 225 watts phone. Size—20 in. long, 9 in. high, 15 in. deep. Gray metal finish. For operation on 110-volts, 50-60 cycle AC.

57NPM19610—Model HT-6 with tubes, less coils and crystals. Shpg. wt., 67 lbs. Not Mailable. . . \$110.00

57 NP 19611—Coils for 160, 80, 40 or 20 meter operation. Shipping weight, 3 pounds. Set . . . \$6.00

57NPM19612—E.C.O. unit for 160, 80, 40 or 20 meter operation for corresponding coils listed above. Shipping weight, 2 pounds. Each . . . \$4.50

57NP19613—Set of coils for 5 or 10 meter operation on twice crystal frequency. Shipping weight 3 pounds 8 ounces Set . . . \$8.50

**\$110.00**  
Cash  
\$24 Down

## Hallicrafters HT-9 Radio Telephone and C.W. Transmitter

Plate modulated phone and CW unit . . . rated at 75 watts phone carrier and 100 watts CW output. Provides operation on any five frequencies between 1.7 and 30 megacycles. Clean, chirpless keying, excellent voice quality, instantaneous band change, and complete circuit metering.

Tubes used: 1-6F6 Oscillator, 1-6L6 Doubler, 1-814 Power Amplifier, 1-6F5 Audio-input amplifier, 4-6L6G P-P parallel Modulators, 2-866 rectifiers, 1-5Z3 Exciter Rectifier and 2-Audio Rectifiers. Controls: audio gain (with on-off switch for audio section), P. A. plate tuning. Switches: Filaments, Plate, Transmit-Standby, Meter Switch, Band Switch, Phone-CW switch. Meters: P. A. Plate, P. A. grid, Modulator Plate-exciter plate, P.A. plate tuning scale. Key, receiver standby and antenna relay connections on rear panel. Dull black front panel on gray finished cabinet. Cabinet size: 28 inches wide, 18 1/2 inches deep, 11 1/2 inches high. For 110 volt 50-60 cycle A.C.

57NPM18291—With tubes, less crystals and coils. Shpg. wt., 73 lbs. Not mailable. . . . \$225.00

57NP18292—Coils for 160, 80, or 40 meter band. (State band.) Shpg. wt., 1 lb. 8 oz. Ea. band. . . \$9.50

57NP18293—Coils for 20 or 10 meter band. (State band wanted.) Shpg. wt., 1 lb. 8 oz. Ea. band. \$10.50

**\$225.00**  
Cash  
\$45 Down

## Abbott MRT-3 112-116 M. C. Transceiver

© Basically designed for mobile operation. Its small size and shape make it ideal for use in an automobile, truck, boat or plane; in fact anywhere that it is convenient to use a 6-volt storage battery. Where 110 volt 60 cycle AC is available, the MRT-3 can be operated from an AC power supply having an output of 300 volts at 100 M.A. and 6.3 volts at 3.5 amperes. The antenna coupling coil is mounted on a polystyrene rod and is easily variable. The working range will vary between 5 and approximately 50 miles depending upon location and conditions. It has a power rating of 20 watts input which is 6 or 7 times that of the ordinary portable type transceiver. Tubes used: 1-HY-75, 1-6C5, 1-6V6, or 6L6. Any good single button carbon microphone will work satisfactorily. P.M. dynamic speaker is built into the cabinet which is 9x8x4 inches. See Page 2 for Sears Easy Terms.

57 NP 10226—MRT-3 Transceiver, assembled, less tubes, microphone and battery. Shipping wt., 12 lbs. . . \$28.81

57 NP 012540—30#BS 6-volt vibrator power supply. Shpg. wt., 8 lbs. \$18.82

**\$28.81**

## Abbott DK-3 112 M. C. Transceiver

® Ideal 112-116 Megacycle (2 1/2-Meter) transceiver for portable and mobile use. Range varies from two to thirty miles depending upon location and conditions. The DK-3 features inductive antenna coupling which is continuously variable from front panel, providing for maximum efficiency for both sending and receiving. Any single button 200 ohm carbon microphone may be used. Tubes used: 1-6J5GT and 1-6G6G. For strictly portable use, an antenna consisting of two pieces of copper or aluminum tubing each approximately 17 inches long will give good results. Operation may be either from AC power pack giving between 135 and 180 volts DC in addition to filament supply or from three 45 volt "B" batteries such as Burgess M30 and four No. 4FH 1 1/2 volt "A" batteries. Controls are tuning, volume, Send-Receive, in addition to microphone and headphone jacks. Gray wrinkle finish steel case, size 11 inches long, 11 inches high, 4 1/2 inches wide.

57NP010230—Assembled. Less tubes, batteries, headphones, antenna, and mike. Shipping weight, 12 lbs. \$18.82

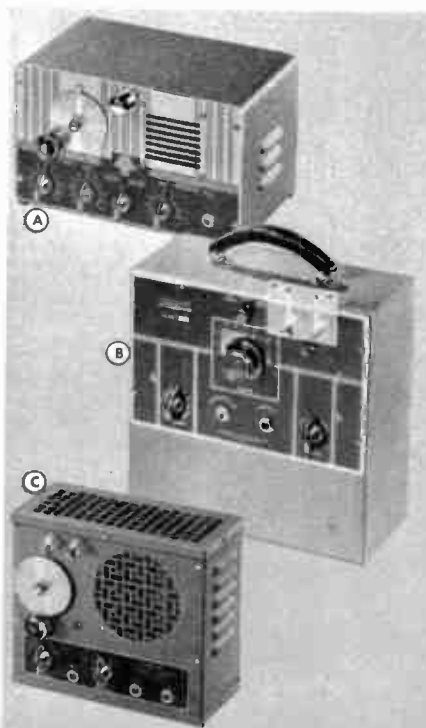
**\$18.82**

## Stencor 112-T Transceiver Kit

Ⓐ An extremely compact transceiver for the Amateur 2 1/2-Meter (112 to 116 M.C.) band. A Hytron HY-75 serves as R.F. oscillator for transmitting and as an ultra-Audion self-quenching detector for receiving; 1-6J5, and 1-6V6 serve as speech. Amplifier-modulator for transmitting and as Audio stages when receiving. Has built-in 3 1/2 inch P.M. speaker. Transmitting-power output is 10 to 15 watts. Speech input is for a single button carbon microphone. Variable Antenna coupling for maximum performance with conventional type 2 1/2-Meter Antenna. Power requirements 300 volts D.C. at 100 milliampères, 6.3 volts D.C. at 3.35 Amperes from separate A.C. operated powerpack or batteries. Power supply is not included. Accessories required: 1-HY-75, 1-6J5, 1-6V6 Tubes, 1-1.5 volt bias battery, Microphone, Antenna, and suitable power supply. Kit includes all other parts and attractive gray wrinkle finish cabinet size 10 1/2 in. long, 6 1/2 in. deep and 6 1/2 in. high. For Sears Easy Terms. See Page 2. Shpg. wt., 12 lbs.

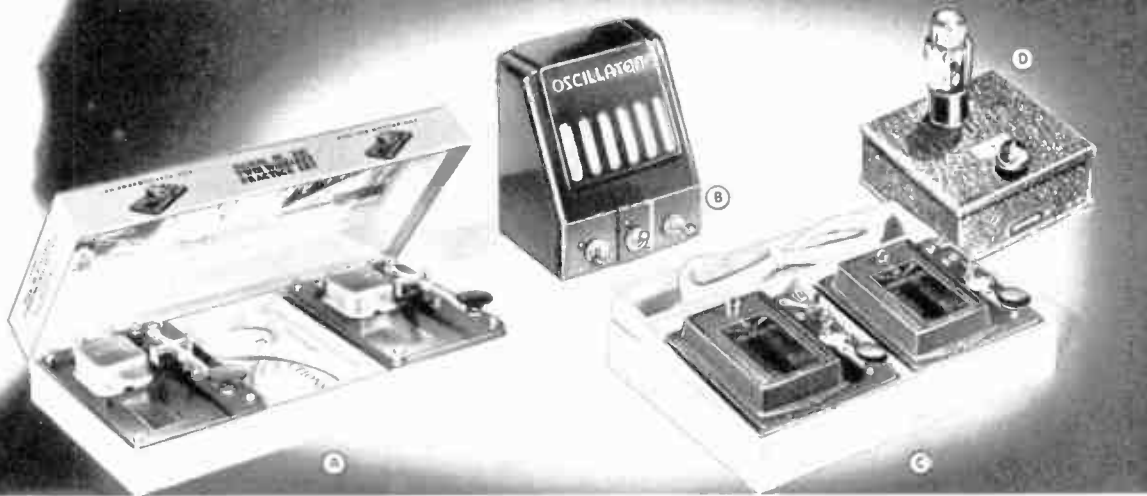
57 NP 010195 . . . . . \$22.40

**\$22.40**



All prices on Hallicrafters, Stencor and Abbott radio equipment shown on these two pages are set by the manufacturer. We therefore must reserve the right to change our selling prices whenever the manufacturer requires that we do so. See notice on Page 2 for complete details.

# It's Easy to Learn the Code With These Practical Sets



## Bud Code Practice Oscillator

For individual or classroom code instruction. Oscillating circuit produces note duplicating that of continuous wave radio telegraphy. Built-in Magnetic Speaker which renders note audible to operator until headphones are plugged in... speaker is then silenced. Tone and volume, both controllable by knobs on front panel—operate up to 20 pairs of headphones over a distance of several hundred feet. Phone Jack fits standard phone plug. Any number of keys may be used. Operates on 110 volt AC or DC. Gray finished steel cabinet. Size 4 1/2 x 7 1/2 x 3 3/4 in. deep. For keys see Page 13.  
**57 NP 10915**—Complete with tube, operating and hookup instructions, and International Morse Code Card. Less key and headphone. Shipping wt., 6 lbs. .... **\$8.18**

## Earphone Model

Excellent for group Code instruction work. Has all the features of model described above, except built-in Speaker. Operates up to 20 pairs of headphones or one to five small Magnetic Speakers. Any number of keys may be connected in parallel for group practice. Gray crackle finished metal cabinet, size 4 1/2 x 3 3/4 x 3 3/4 in. For 110 volt AC or DC power. Shipping weight, 4 pounds.  
**57 NP 10916**—Complete with tube, hook-up, operating instructions, and International Morse Code Card. Less Key. **\$7.10**

## Extra Speakers

Three-inch Magnetic Speakers designed for use with the two Practice Oscillators described above. Several speakers can be connected in parallel and thus used. Speakers are plugged into "Phones" jack. Cables and standard phone plug are not included. See Page 13 for phone plugs. May be connected with any two-conductor insulated copper wire. Crackle gray metal cabinet. 4 1/4 x 4 x 4 inches. Shipping weight, 4 lbs.  
**57 NP 10917**..... **\$2.40**

## Key and Phone Outlet Box

For terminating Key and Earphone connections in Code practice installations. Box made of bakelite. Size 4 3/8 x 2 1/2 x 1 1/2 inches. Jacks take standard two way phone plugs shown on Page 13. Shpg. wt., 1 lb.  
**57 NP 10918**..... **97c**

## Signal Twin Practice Set

**A** Memorizing the Code alphabet requires but a few evenings of study... but each letter and figure must be recognized by its sound. This twin practice set offers an easy way for two beginners to learn code by sound. Set includes two keys, non-adjustable buzzers and code plates mounted on metal bases equipped with binding posts for battery and connecting wire. Instruction Manual and 75 feet of wire, also furnished. Requires two No. 6 1 1/2-volt dry cells for operation (see Page 37). Shipping weight, 3 pounds.  
**57 NP 10770**—Complete set..... **\$2.20**

## Mac Oscillotone

**B** Code practice oscillator for either 110 volts AC or DC. Built-in speaker eliminates need for headphones. Two level volume control. Two frequency tone-control. 117N7GT Tube furnished. An ideal instrument for code instruction or practice. Made by T. R. McElroy, world famous as a manufacturer of Radio-Telegraph apparatus.  
**57 NP 10203**—Shipping wt., 6 lbs. .... **\$7.50**

## ICA Triplex Code Practice Set

**C** An ideal instrument to learn Telegraphy-Radio Code Signals and Blinker or Navy Signaling. Only 2 standard flashlight batteries needed. Code instruction is mounted on signal box. When the two sets are connected, messages can be sent or received by either set. Complete instructions.  
**57 NP 18797**—Set of two instruments and 50 feet of connecting wire. Less batteries. Shipping weight, 3 pounds. .... **\$2.32**  
**57 NP 18798**—Single Instrument. No wire. Shipping weight, 1 pound 4 ounces. .... **\$1.15**

## National Oscillator

**D** Small Code practice audio oscillator which will make it easy for you to learn the radio telegraph code in a week or two. Also suitable as an audio signal for I.C.W. ultra high frequency bands. Requires a type 30 tube and four ordinary flashlight batteries. Steel case black wrinkle enamel finish. Shipping weight, 5 pounds.  
**57 NP 19164**—Less batteries and tube.... **\$3.95**

## Popular Code Practice Sets



### Speed-X Practice Set

Ideal for beginners. Moulded of Walnut color Bakelite. Consists of a Hi-Frequency buzzer and a special key. Uses two or three dry cells. Hookup diagram on carton. Shpg. wt., 1 lb. 4 oz.  
**57 NP 18743**..... **\$1.62**

### Signal Economy Set

A good and inexpensive instrument. Consists of a key lever, non-adjustable buzzer and code plate. Maroon finished metal base with rubber feet. Ideal for code practice. Shipping weight, 2 pounds.  
**57 NP 10772**—Each..... **\$1.03**

### Signal Practice Set

Designed for those who want an extra well made instrument to learn the code. Set consists of a key and high frequency buzzer mounted on a mahogany finished wood base with binding posts. Code is printed on a plate and fastened to the base. Adjustable buzzer. Why not add this set to your Easy Term order. See Page 2. Shipping weight, 2 pounds.  
**57 NP 10771**—Each... **\$2.35**

### High Frequency Buzzer

Construct your own code practice sets. Improved design, either a standard or semi-automatic key, and 2 dry cells are all that are required. Holds adjustment. Resistance 2 ohms.  
**57 NP 18746**—Shipping Weight, 8 ounces. Each..... **73c**

## Learn Spanish Quickly and Easily With These Phono-Records

### ICA Spanish Language Record Course

Spanish, next to English, is today called the world's most important language. This electrically recorded course consists of 20 conversational study units of 5 double-faced 10-inch records. Also a cloth bound book of 192 pages containing a vocabulary of more than 2000 Spanish words and 40 Conversational lessons. All fitted in an attractive case. Course also includes six months' correspondence tuition with Pan American Language School, Radio City, New York. You will be surprised how quickly you will learn the language. Shipping weight, 7 pounds.  
**57 NP 10385**—Cash Price..... **\$19.35**

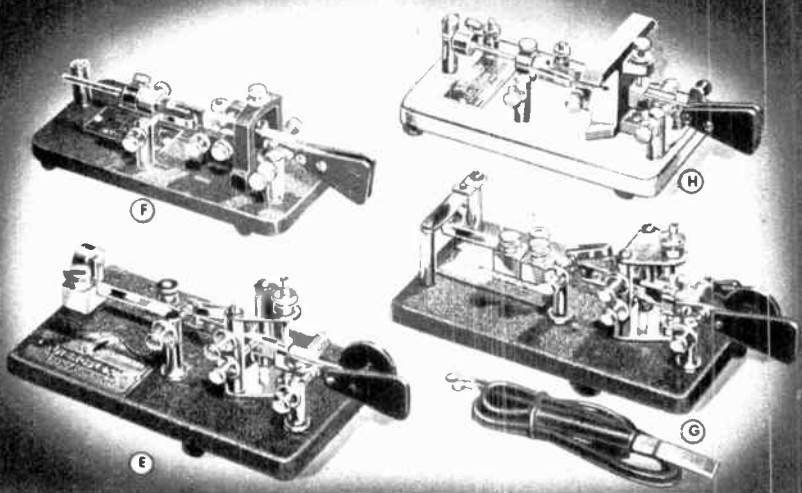
## LINGUAPHONE Code Lesson Course

### Code Practice Phono Records

Master the Code quickly and easily with this set of records. Play them on your phonograph record player and HEAR the letters of the code alphabet tapped out. Sharp, clear and with perfect precision. As you listen your EYE follows the dot and dash equivalent in your text... and you learn to distinguish one code letter from another... 10 lessons, 14 exercises, on 5 double faced, 10-inch, electrically transcribed records. Durable album. Shpg. wt., 6 lbs.  
**57 NP 10300**—Complete with text... **\$8.33**

Complete Code Lesson Course for Only **\$8.33**

# Keys and Headphones



## Speed-X Speed Key

**F** Durable, heavy duty Semi-Automatic Key at low cost. Parts are finished in heavy chrome with black wrinkle base and casting. Base, 3x6 1/4 x 3/4 in. No switch. Plug and cord extra (see 57 NP 18743 below). Shipping weight, 4 pounds.

57 NP 18740—Model 515.....\$5.44

## Speed-X Professional Key

**E** Has heavy duty 1/4-inch coin silver contacts; pigtail connections to the vibrator arm. Extra fast vibrator arm and Dot U spring designed for long life and heavy work. Adjustable from 8 words per minute up. Will hold adjustment at all speeds. Polished chromium plated base and machined parts. Complete with switch, cord and plug. Shipping weight, each, 5 pounds.

57 NP 18741—Model 501.....\$10.29

57 NP 18742—Model 500. Same as above except black wrinkle base and chrome plated machine parts. 1/4-inch coin silver contacts. Shipping weight, each, 5 pounds.....\$7.94

## Vibroplex "Champion"

**H** Designed for radio use. Features clarity, speed, and sending ease. Speed adjustable from 10 words per minute up. Single lever with two pairs of contact points. Chromium finished machine parts, black crystal finished base. No circuit closer. Plug and Cord extra (see 57 NP 18748 below). Shipping weight, 4 pounds.

57 NP 10780.....\$9.75

## Vibroplex "Lightning Bug"

**G** One of the latest models. Single lever type with improved flat pendulum instantly adjustable dot contact spring. Circuit breaker parallel with pendulum. Two pairs of contact points. Polished chromium finished machine parts. Base is black crackle. Complete with cord and plug. Shipping weight, each, 4 pounds.

57 NP 10781.....\$13.67

57 NP 10782—DeLux Model, Chrome finished base, Jeweled Movement.....\$17.15

# Mac Professional Type Keys



## Models S100, 200, 300

Streamlined metal base with black wrinkle finish. Finely balanced. Bronze bearing screws. Huge 3/16-in. contacts. Shipping weight, each, 1 pound.

57 NP 10204—Model 200\$2.25

57 NP 10205—Model 300. Same as above with base metal parts chrome plated.....\$3.45

57 NP 10209—Amateur Model. Large Contacts. Polystyrene plastic base. Circuit closing switch. Model S100.....\$1.65

## Model S 600 Key

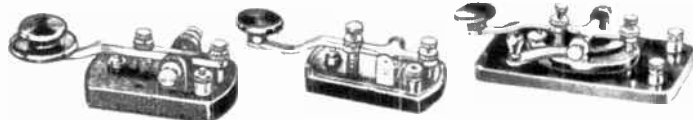
Combines semi-automatic key perfection with striking beauty of design. Heavily chromed base with bluish tint to prevent glare. Platinum contacts 3/16-inch diameter for dots . . . . . platinum for dashes. Stainless steel coil springs and bearings. Swedish blue steel main spring and U spring. Bronze bearing screws. Bronze alloy pigtail. Bakelite insulation throughout. Molded plastic dot paddle and dash button. Shipping weight, 6 pounds.

57 NP 10200.....\$11.85

## Mac—Model P 500 Key

Black wrinkle finish over Parkerized base. Chrome finished machined parts. Bakelite insulation. 3/16 in. silver contacts. Circuit closer. Model P 500.

57 NP 10201—Shipping weight, 5 pounds. ....\$7.50



## Speed-X 320 Key

Black wrinkle enameled extra heavy die-cast base. Large sturdy polished chromium plated key arm with adjustable steel bearings. Heavy brass connector strip. Improved Navy Type Knob and 1/4-in. pure silver contacts. Shipping weight, each 2 pounds.

57 NP 18744.....\$1.91

## Speed-X 300 Key

Inexpensive and well built practice key for the beginner. Base is moulded of Walnut color Bakelite, with all machine parts finished in bright nickel. Perfect action—simple adjustments, coin silver contacts. No circuit closing lever. Shipping weight, each 1 pound.

57 NP 18745.....88c

## Signal Standard Key No. I12-K

Designed for beginners who want a key that is scientifically correct yet moderate in price. Has black enamel metal base mounted on mahogany finished wood base. Key lever is bright nickel plated. Contact points are made of platinum. A good quality key. Shipping weight, each 2 pounds.

57 NP 18739.....\$1.47



## Crystal and Magnetic Headphones

**A** Brush Crystal Phones Type A. Response, 100 to 10,000 cps. High impedance. 5-foot cord with pin tip ends.

57 NP 18875—Double Type. Shipping weight, 2 pounds.....\$6.47

**C** 57 NP 18876—Single Type. Shipping weight, 1 pound.....3.47

**Cannon-Ball "Dixie" Headphones.** Outside terminals. Adjustable. 4 1/2-foot cord. Shipping weight, each, 1 pound.

57 NP 18882—3000-Ohm.....\$1.65

57 NP 18883—2000-Ohm.....1.39

**B** Type BJ—Sealed cartridge, 5-ft. yokeless cord. Shpg. wt., 2 lbs.

57 NP 18877—Double Type.....\$8.52

**C** Cannon-Ball "Master" Headphones. Concealed terminal type. Adjustable headband. 4 1/2-foot cord.

57 NP 18880—5000 Ohm Dbl. Ear-Phone Type. Shpg. wt., 1 lb.....\$2.59

57 NP 18881—2000 Ohm Dbl. Ear-Phone Type. Shpg. wt., 1 lb.....1.89

**E** Cannon-Ball "Grand" Single Headphone. Shipping weight, 12 ounces.

57 NP 18884—1000 Ohms.....71c

## Headphone Adapters

**F** Consists of speaker silencing switch box with pin tip phone jacks, 3-foot connecting cable and Adapter which goes between output tube and its regular tube socket of radio. Shipping weight, each, 8 ounces.

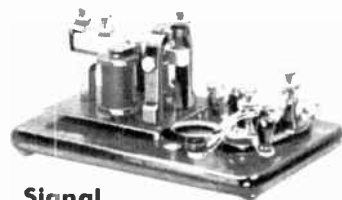
57 NP 12961—Single 6 prong.....\$1.91

57 NP 12962—Single 8 prong.....1.91

57 NP 12963—Double 6 prong.....2.19

57 NP 12964—Double 8 prong.....2.19

For Sears Easy Payment Plan, see Page 2.



## Signal Telegraph Equipment

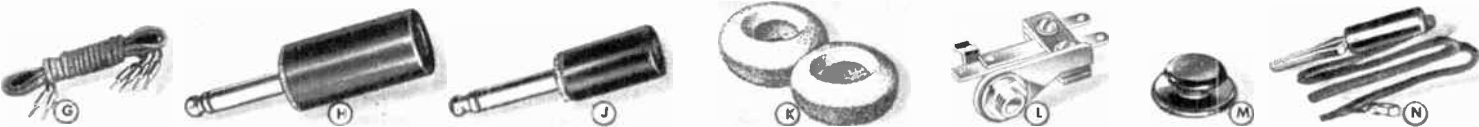
Regulation sounder and professional type key. Mahogany finished wood base. Brass bridge, aluminum sounding bar. Nickel plated key lever. Sounder is 4 ohms.

57 NP 10773—Complete.....\$3.38

57 NP 10775—Sounder only on wood base. Shipping weight, 2 pounds.....\$2.29

57 NP 18738—Key only, no base. Without closing lever. Shpg. wt., 1 lb.....\$1.65

57 NP 10774—Key only. No base. With closing lever. Shipping weight, 1 lb.....\$2.00



**G** Double Phone Cords. Length, 5 feet. Shipping weight, each, 6 ounces.

57 NP 10376—Tips on both ends.....21c

57 NP 10377—Spades on one end. Tips on other.....35c

**H** Standard Size Plugs. Length 2 3/4 in., dia. 3/4 in., barrel length 1 1/2 in. Shipping weight, 3 ounces

57 NP 17820—2 Wire Black. Each.....21c

57 NP 17830—2 Wire Red. Each.....21c

57 NP 18243—3 Wire Black. For mikes. Ea. 44c

57 NP 17331—3 Wire Metal Shielded. Ea. 74c

**J** Midget Size Phone Plugs. For use in close places. Bakelite barrel nickel plated brass metal parts. Length, 2 1/4 inches; diameter, 3/16 inch; barrel length 1 1/8 inch. Shipping weight, each, 4 ounces.

57 NP 17824—2 contact black. Each.....21c

57 NP 17825—2 contact red.....21c

57 NP 17826—2 wire metal shell type. Each.....30c

57 NP 17827—2 wire metal shell stubby type. Length, 1 inch; diameter, 1/16 inch. Each.....31c

**K** Ear Cushions. Made of sponge rubber. Ideal for those who use earphones. Shipping weight, 4 ounces.....23c

57 NP 10375—Pair.....23c

**L** Utah Short Jacks. Shpg. wt., ea., 5 oz.

57 NP 10785—Single Closed Circuit.....22c

57 NP 10786—Single Open Circuit.....18c

Midget Jack, Economy type. Not shown. Shipping weight, each, 3 ounces.

57 NP 17833—Single open circuit.....23c

57 NP 18244—3-way for mike lines. Ea. 28c

**M** Navy Type knob, moulded Bakelite. Shipping weight, each, 3 ounces.

57 NP 18747.....18c

**N** Plug and cord set for semi-automatic speed keys. Shipping wt., ea. 8 oz.

57 NP 18748.....58c

Adjustable Paddle for Speed Keys. Shipping weight, each, 3 ounces.

57 NP 18737.....15c



# Bring Your Rig Up to Date With Modern Power Tubes

## Guarantee

Power tubes are guaranteed for 90 days against defects in materials and workmanship. When returning power tubes, be sure to state (1) Date purchased from Sears (2) number of hours tube was in service (3) How it was used in circuit, (4) Plate potential.

### Hytron Power Tubes

Type Number	Catalog Number	Shpg. Wt.	Price Each
Hy 24	57 NPM 13250	1 lb.	\$1.50
Hy 30 Z	57 NPM 17563	1 lb.	2.75
Hy 31 Z	57 NPM 13251	1 lb.	3.50
Hy 40	57 NPM 17581	1 lb.	3.75
Hy 40 Z	57 NPM 17561	1 lb.	3.75
Hy 51 A	57 NPM 17552	2 lbs.	4.75
Hy 51 Z	57 NPM 17554	2 lbs.	4.75
Hy 61-807	57 NPM 17556	2 lbs.	3.60
Hy 65	57 NPM 13252	1 lb.	3.00
Hy 67	57 NPM 13252	2 lbs.	7.75
Hy 69	57 NPM 17564	2 lbs.	3.95
Hy 75	57 NPM 13256	2 lbs.	3.95
Hy 114 B	57 NPM 13256	1 lb.	2.25
Hy 615	57 NPM 17560	1 lb.	2.25
866A-866	57 NPM 17583	1 lb.	1.50
866 Jr.	57 NPM 17587	1 lb.	1.05
801A-801	57 NPM 13253	1 lb.	2.50

### RCA Power Tubes

Type Number	Catalog Number	Shpg. Wt.	Price Each
ZG3A	57 NPM 17500	6 lbs.	\$10.00
211	57 NPM 17501	6 lbs.	10.00
800	57 NPM 17502	6 lbs.	10.00
803	57 NPM 17518	6 lbs.	28.50
805	57 NPM 17504	5 lbs.	13.50
807	57 NPM 17512	2 lbs.	3.50
808	57 NPM 17508	6 lbs.	7.75
809	57 NPM 17507	2 lbs.	2.50
810	57 NPM 17508	6 lbs.	13.50
811	57 NPM 17581	2 lbs.	3.50
812	57 NPM 17582	2 lbs.	3.50

### RCA Power Tubes

Type Number	Catalog Number	Shpg. Wt.	Price Each
813	57 NPM 17513	6 lbs.	\$22.00
814	57 NPM 17514	5 lbs.	17.50
815	57 NPM 13086	2 lbs.	4.50
816	57 NPM 13086	1 lb.	1.00
828	57 NPM 17583	5 lbs.	17.50
866A-866	57 NPM 17521	4 lbs.	1.50
872	57 NPM 17523	6 lbs.	9.00
902	57 NPM 17531	3 lbs.	7.50
913	57 NPM 17533	2 lbs.	4.00
1608	57 NPM 13087	1 lb.	4.00
1610	57 NPM 13088	1 lb.	2.00

### RCA Power Tubes

Type Number	Catalog Number	Shpg. Wt.	Price Each
1613	57 NPM 13089	1 lb.	\$2.75
1614	57 NPM 13090	1 lb.	3.50
1616	57 NPM 13091	1 lb.	6.75
1624	57 NPM 13092	1 lb.	3.50
1851	57 NPM 17537	1 lb.	2.10
8005	57 NPM 17548	1 lb.	7.00
9001	57 NPM 13093	1 lb.	2.50
9002	57 NPM 13094	1 lb.	2.00
9003	57 NPM 13095	1 lb.	2.50
VR105-30	57 NPM 17540	1 lb.	1.25
VR150-30	57 NPM 17541	1 lb.	1.25

### Hytron Ceramic Base Tubes

Type Number	Catalog Number	Shpg. Wt.	Price Each
6A8GTX	57 NPM 13257	8 oz.	\$9.95
6J5CTX	57 NPM 10228	8 oz.	.95
6J7GTX	57 NPM 13258	8 oz.	.95
6K7GTX	57 NPM 13259	8 oz.	.95
6K8GTX	57 NPM 13260	8 oz.	1.30
6L6GT	57 NPM 17559	8 oz.	1.25
6V6GTX	57 NPM 13261	8 oz.	1.05
6S47GTX	57 NPM 13262	8 oz.	1.05
6S17GTX	57 NPM 13263	8 oz.	1.05
6S47GTX	57 NPM 13264	8 oz.	1.05

### Raytheon Power Tubes

Type Number	Catalog Number	Shpg. Wt.	Price Each
RK 12	57 NPM 17586	1 lb.	\$2.50
RK 20A	57 NPM 17587	3 lbs.	15.00
RK 37	57 NPM 17584	1 lb.	6.95
RK 39	57 NPM 17596	1 lb.	3.50
RK 43	57 NPM 17599	1 lb.	1.50
RK 49	57 NPM 17602	1 lb.	1.25
RK 60	57 NPM 17617	1 lb.	2.75
RK 62	57 NPM 17608	1 lb.	3.50
866A-866	57 NPM 17615	1 lb.	1.50

### Gammatron Power Tubes

Type Number	Catalog Number	Shpg. Wt.	Price Each
HK 24	57 NPM 17589	1 lb.	\$3.50
HK 54	57 NPM 17585	2 lbs.	8.75
HK 254	57 NPM 17566	4 lbs.	12.50

### Emac Power Tubes

Type Number	Catalog Number	Shpg. Wt.	Price Each
35T	57 NPM 17572	2 lbs.	\$6.00
100TH	57 NPM 17573	4 lbs.	13.50

### Raytheon Special Sound Tubes

For use in high gain P. A. amplifiers. Very low hum and microphonic characteristics. Shipping weight, ea., 8 oz.

Type Number	Catalog Number	Each
SS-504G	57 NPM 13275	\$0.67
SS-5V4G	57 NPM 13276	1.03
SS-5V3C	57 NPM 13277	.51
SS-6C5G	57 NPM 13278	.87
SS-6F6G	57 NPM 13279	.57
SS-6J7G	57 NPM 13280	.67
SS-6K6G	57 NPM 13281	.67
SS-6L6G	57 NPM 13282	1.24
SS-6L7G	57 NPM 13283	1.03
SS-6N6G	57 NPM 13284	1.51
SS-6V6G	57 NPM 13285	.84
SS-6X5G	57 NPM 13286	.67

All transmitting tubes shipped by express only

# RCA Radiotrons for All Radio Receivers



## Top Quality Tubes

RCA Radiotrons are universally accepted. Servicemen and Amateurs alike know that these tubes are unsurpassed in quality of materials, workmanship, and in uniformity of electrical characteristics.

## Order 15 or More and Save

Take advantage of Quantity Prices! The single lot price quoted below is 40-10% off standard list price. If 15 or more tubes are ordered at one time we will allow you a discount of 50% off list; or exactly 1/2 of list price.

Shipping weights for Tubes: 1 tube, 8 oz.; 2 tubes, 12 oz.; 3 tubes, 1 lb.; 4 tubes, 1 lb. 4 oz.; 6 tubes, 1 lb. 12 oz.; 7 tubes, 2 lbs. 4 oz.; 8 tubes, 2 lbs. 6 oz.; 9 tubes, 2 lbs. 10 oz.; 10 tubes, 2 lbs. 12 oz.; 15 tubes, 3 lbs.

## Mazda Panel Lamps

Shipping weights, each 4 oz.

Catalog Number	Type	Volts	Amps.	Each
57 NP 4935	40	6-8	15	8c
57 NP 19392	40A*	6-8	15	9c
57 NP 4936	41	2.5	50	8c
57 NP 4937	42	3.2	50	10c
57 NP 19393	43*	2.5	50	9c
57 NP 4933	44*	6-8	25	8c
57 NP 19394	45*	3.2	50	12c
57 NP 4929	46	6-8	25	8c
57 NP 4930	48	2.02	06	13c
57 NP 19395	49*	2.0	06	15c
57 NP 19396	49A*	2.1	12	18c
57 NP 19397	50†	6-8	20	10c
57 NP 19398	292	2.9	17	12c

\*Miniature bayonet base; all others screw base. †Small round bulb. Shipping weight, ea., 3 oz.

## RCA Radiotron Guarantee

Every RCA Radiotron is guaranteed to give six months satisfactory service. We will replace any tube bought of us which fails to give this service. Burned-out or broken tubes are not replaceable. Return defective tubes to us in Chicago.

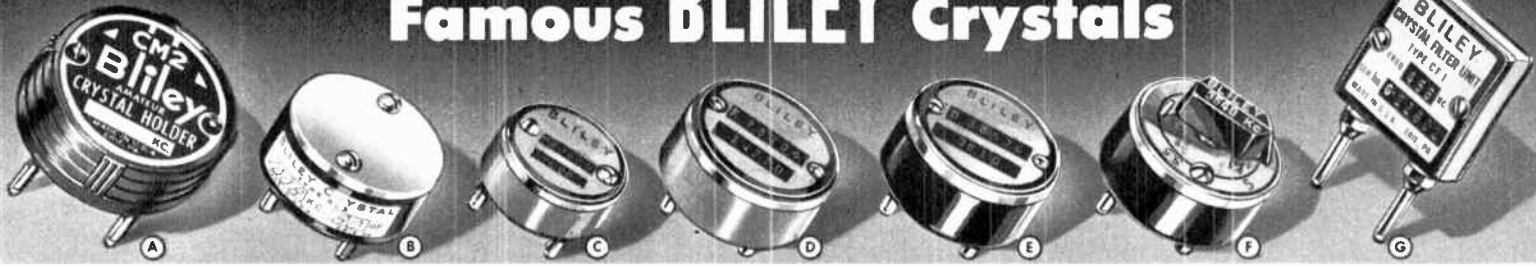
14 . . . SEARS, ROEBUCK AND CO.

Type Number	Catalog Number	List Price	Net Price Each
0Z4G	57 NP 13300	\$1.55	\$0.91
1A5G	57 NP 13301	1.55	.91
1A6	57 NP 13302	1.25	.74
1A7G	57 NP 13303	1.55	.91
1C5G	57 NP 13304	1.55	.91
1D5GP	57 NP 13305	1.25	.74
1F7GV	57 NP 13306	1.55	.91
1H4G	57 NP 13307	.95	.56
1H5G	57 NP 13308	1.25	.74
1H5G	57 NP 13309	1.55	.91
1V	57 NP 13310	.95	.56
2A3	57 NP 13311	1.90	1.12
2A5	57 NP 13312	.95	.56
2A7	57 NP 13313	1.05	.62
5V4G	57 NP 13314	1.55	.91
5X4G	57 NP 13315	1.05	.62
5Y3G	57 NP 13316	.65	.38
5Y4G	57 NP 13317	.70	.41
5Z3	57 NP 13318	1.05	.62
5Z4	57 NP 13319	1.25	.74
6A4	57 NP 13320	1.55	.91
6A6	57 NP 13321	1.55	.91
6A7	57 NP 13322	.95	.56
6A8	57 NP 13323	1.25	.74
6A8G	57 NP 13324	.95	.56
6A8GT	57 NP 13325	.95	.56
6A8GTG	57 NP 13326	1.55	.91
6B7	57 NP 13327	1.25	.74
6C5	57 NP 13328	1.05	.62
6C5G	57 NP 13329	.95	.56
6C6	57 NP 13330	.95	.56
6C6G	57 NP 13331	1.55	.91
6D6	57 NP 13332	.95	.56
6E5	57 NP 13333	1.05	.62
6F5	57 NP 13334	1.05	.62
6F5G	57 NP 13335	1.05	.62
6F6	57 NP 13336	1.05	.62
6F6G	57 NP 13337	.85	.50
6F7	57 NP 13338	1.55	.91

Type Number	Catalog Number	List Price	Net Price Each
6F8G	57 NP 13339	\$1.25	\$0.74
6G6G	57 NP 13340	1.25	.74
6H6	57 NP 13341	1.05	.62
6H6G	57 NP 13342	1.05	.62
6J5	57 NP 13343	.85	.50
6J5G	57 NP 13344	.95	.56
6J7	57 NP 13345	1.25	.74
6J7G	57 NP 13346	1.05	.62
6K6G	57 NP 13347	1.05	.62
6K7	57 NP 13348	1.05	.62
6K7G	57 NP 13349	1.05	.62
6K7GT	57 NP 13350	.95	.56
6K8	57 NP 13351	1.25	.74
6L6	57 NP 13352	1.90	1.12
6L6G	57 NP 13353	1.90	1.12
6L7	57 NP 13354	1.55	.91
6N7	57 NP 13355	1.55	.91
6Q7G	57 NP 13356	.85	.50
6Q7GT	57 NP 13357	.85	.50
6SA7	57 NP 13358	.95	.56
6SC7	57 NP 13414	1.25	.74
6S1J7	57 NP 13359	1.05	.62
6SK7	57 NP 13360	.95	.56
6SQ7	57 NP 13361	.95	.56
6U9	57 NP 13362	1.25	.74
6V6	57 NP 13363	1.90	1.12
6V6G	57 NP 13364	1.25	.74
6X5G	57 NP 13365	1.05	.62
12A7	57 NP 13366	1.90	1.12
12K7GT	57 NP 13367	.95	.56
12S7K	57 NP 13368	.95	.56
12SQ7	57 NP 13369	.95	.56
12Z3	57 NP 13370	.95	.56
19	57 NP 13371	1.25	.74
24A	57 NP 13372	.85	.50
25L6	57 NP 13373	1.55	.91
25L6G	57 NP 13374	1.25	.74
25L6GT	57 NP 13375	1.05	.62
25Z5	57 NP 13376	.95	.56

Type Number	Catalog Number	List Price	Net Price Each
25Z6	57 NP 13377	\$1.25	\$0.62
25Z6G	57 NP 13378	.95	.56
26	57 NP 13379	.95	.56
27	57 NP 13380	.70	.41
27	57 NP 13381	.65	.38
30	57 NP 13382	.95	.56
32	57 NP 13383	1.25	.74
33	57 NP 13384	1.25	.74
34	57 NP 13385	1.25	.74
35	57 NP 13386	.95	.56
35L6GT	57 NP 13387	.95	.56
35Z5GT	57 NP 13388	.80	.47
36	57 NP 13389	.95	.56
38	57 NP 13390	1.05	.62
41	57 NP 13391	.80	.47
42	57 NP 13392	.80	.47
43	57 NP 13393	1.05	.62
45	57 NP 13394	.75	.44
46	57 NP 13395	1.05	.62
47	57 NP 13396	1.05	.62
50L6GT	57 NP 13397	1.05	.62
56	57 NP 13398	.75	.44
57	57 NP 13399	.85	.50
58	57 NP 13400	.85	.50
59	57 NP 13401	1.55	.91
71A	57 NP 13402	.85	.50
75	57 NP 13403	.80	.47
76	57 NP 13404	.85	.50
77	57 NP 13405	.85	.50
78	57 NP 13406	.85	.50
80	57 NP 13407	.65	.38
83	57 NP 13408	1.25	.74
84/624	57 NP 13409	1.05	.62
89C	57 NP 13410	.95	.56
6AC7	57 NP 13411	2.30	1.35
1852	57 NP 13412	1.90	1.12
6AB7			
1853			

# Famous BLILEY Crystals

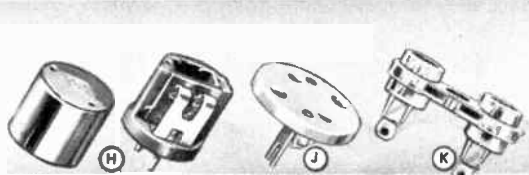


## Dependable Crystals, Carefully Cut from Brazilian Quartz

- (A) Bliley Crystal Holder.** Molded Bakelite. For 1-inch square crystals. Fits standard 5-prong tube socket. Shipping weight, each, 4 ounces.  
 57 NP 18285—For 20-40 Meter Crystals ..... **95c**  
 57 NP 18286—For 80-160 Meter Crystals ..... **95c**
- (B) Type BC3.** For the 40, 80 and 160-meter bands. The accurately-cut crystal is an active oscillator and has a drift of only 23 cycles/mc./degree centigrade. Stainless-steel holder cover-plate. **State frequency.** Shipping weight, each, 8 ounces.  
 57 NP 18260—Within 5 KC. of specified frequency in the 40-80-meter bands negative drift. .... **\$3.35**  
 57 NP 18261—Within 10 KC. of specified frequency in the 160-meter band (±) drift. .... **3.35**  
 † 57 NP 18262F—At exact integral specified KC's in the 40 or 80-meter bands. Allow 10 days for shipment. .... **4.95**
- (C) Type B5.** A superior low-drift crystal for the 40-meter amateur bands. Temperature coefficient is limited to a maximum of (±) 4 cycles/mc./C°. Oscillating frequency is accurately calibrated and guaranteed correct within ±.03% in your transmitter at normal room temperature. Compact holder equipped with 2-prong socket. Shipping weight, each, 8 ounces.  
 57 NP 18263—7.0 to 7.3 MC. within 5 KC. of specified frequency. **State frequency.** .... **\$4.80**  
 † 57 NP 18264F—Frequency to exact integral specified KC's. **State frequency wanted.** .... **5.90**  
 † Shipped from factory in Erie, Pa., from where you pay transportation. Allow 10 days for shipment.

- (D) Type HF2.** This fully dependable mounted crystal has high activity comparable to lower frequency crystals. Easily excited. Employs the harmonic vibrating principle. Can be used in any conventional triode, pentode or Tri-tet oscillator. The only precautions necessary are the usual, low-loss design considerations required for all high-frequency circuits. Avoid Regenerative or Pierce circuits. Shipping weight, each, 8 ounces.  
 57 NP 18269—Amateur 20 Meter Band, drift (+) 20 cycles/mc./C°, within 15 KC. .... **\$5.75**  
 57 NP 18270—14.4 to 15.0 MC., drift (+) 20 cycles/mc./C°, within 30 KC. .... **5.75**
- (E) Type LD2.** This mounted, precision low-drift crystal for the 80 and 160-meter amateur bands is carefully cut from selected Brazilian Quartz. It possesses high activity and has a frequency drift not exceeding plus or minus 4 cycles/mc./degree centigrade. The holder is low-loss molded bakelite with crystal held under the constant pressure between two stainless steel electrodes. Plugs into any standard 5-prong tube socket. **State frequency.** Shipping weight, each, 4 oz.  
 57 NP 18272—Within 5 KC. of specified frequency ..... **\$4.80**  
 57 NP 18273F—Supplied to exact integral specified KC's. Shipped from factory in Erie, Pa., from where you pay transportation. Allow 10 days for shipment. .... **\$5.90**

- (F) TYPE VF1.** By a mere twist of the control knob on the Type VF1 Variable Frequency Crystal Unit, you can instantly shift your transmitter frequency. Crystal is easily excited and requires no circuit considerations. Up to 6 KC. variation with the 80-meter unit or 12 KC. with the 40-meter unit. When frequency multiplying the variation is proportionately increased to 24 KC. at 20 meters or 48 KC. at 10 meters.  
 Each crystal is individually finished for best variable frequency performance and has a drift not exceeding (±) 4 cycles/mc./degree centigrade. The crystal activity, at minimum frequency, is only slightly less than the activity of a corresponding fixed frequency unit, and decreases somewhat as the frequency is increased. **State frequency.** Shipping weight, each, 8 ounces.  
 57 NP 18274—Within 5 KC. of specified minimum frequency in the 80-meter band. .... **\$6.60**  
 57 NP 18276—Within 15 KC. of specified minimum frequency in the 40-meter band. .... **6.60**
- (G) Type CF1.** Assures maximum selectivity and minimum signal loss. The low-loss Statite holder plugs into any standard 5-prong tube socket. Shipping weight, each, 4 ounces.  
 57 NP 18279—For 456 KC., 465 KC. or 500 KC., I.F. (Specify one wanted) ..... **\$5.50**  
 57 NP 18278—For 1600 KC. I.F. .... **9.50**



## Unmounted Crystals



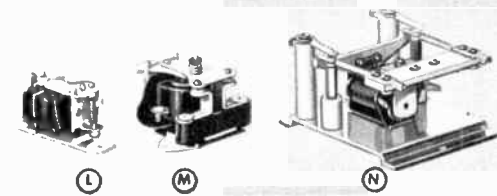
## NATIONAL Oscilloscope

### Type CRM

Unless the performance of your transmitter has been checked by the Cathode Ray and carrier-shift methods, thermocouple meters are not to be trusted to keep your modulation below the point of distortion.  
 This small inexpensive oscilloscope will enable you to adjust your rig and check up on your modulation as provided for in FCC rule 381. Requires one 913 Cathode Ray tube and one 6X5 rectifier. Self-contained 60-cycle sweep or external audio sweep for securing trapezoid pattern may be used. Steel case, size 4 1/4 x 6 1/4 x 8 inches. For 110-volt, 60-cycle A.C.  
 57 NP 19007—Less tubes. Shipping weight, 8 pounds. .... **\$12.20**  
 57 NPM 17533—RCA913 tube. Shipping weight, 2 pounds. **Not available.** .... **4.04**  
 57 NP 13413—RCA6X5 tube. Shipping weight, 4 ounces. **Available.** .... **87c**

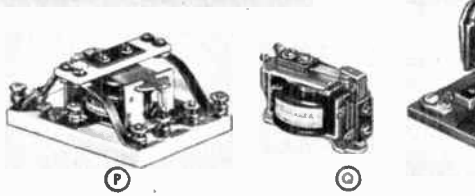
- ### National Vertical Holders
- (H)** Insulating material made of R39. Nickel finished metal cover. 5-prong socket mounts one crystal up to 1 in. sq. in vertical position.  
 57 NP 19168—Model CHR for use in receivers, resonator type. Shpg. wt., 4 oz. .... **\$1.65**  
 57 NP 19163—Model CHT—for use in transmitters, pressure type. No air gap. Shpg. wt., 4 oz. .... **\$1.65**
- ### Hammarlund X5-2 Crystal Socket
- (J)** Pure Isolantite with heavy re-inforced contacts. Can be mounted above or below base or inside Hammarlund XP-53 coil form. Mounting centers, 1 5/16 in.  
 57 NP 18445—Shipping weight, 3 ounces ..... **36c**
- ### Crystal Holder Socket
- (K)** For plugging in standard quartz-crystal holders. Body molded of Amphinol "912-A" (polystyrene). Contacts are of silver-plated phosphor-bronze.  
 57 NP 10231—Shipping weight, 3 ounces. .... **18c**

- ### Superior X-Cut Crystals
- These fine X-Cut Crystals are furnished to us by one of America's largest and best known crystal laboratories. Only Brazilian Quartz is used in the manufacture of these superior units. Each crystal is carefully checked for operating performance. Temperature coefficient is approximately (-) 20 cycles/mc./C°.
- Our large stock of crystals assures you of frequency selections very close to those which you specify on your order—never more than 5 KC. above or below your specifications. Size, 1 inch square. **Specify frequency.**
- 57 NP 18287—For 80 and 160-meter band. Shipping weight, each, 3 ounces. .... **\$1.50**
- 57 NP 18288—For 40-meter band. Shipping weight, each, 3 ounces. .... **1.95**



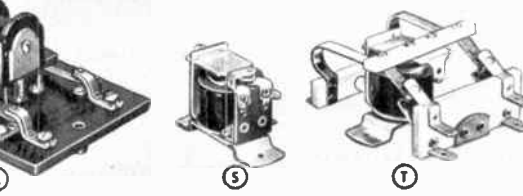
## Meissner Relays

- (L) Keying Relay.** Very compact construction. Designed to break up to 1500 volts at the contacts. Fast in action. Laminated bakelite insulation. Operates on 5 to 15 volts A.C. adjustable tension. Single "Make" circuit. Shipping weight, 12 ounces. .... **\$2.30**
- (M) Power Relay.** Designed to handle 20 Amperes, non-inductive load. Ideal for handling transmitter plate power. Heavy 3/16 inch double pair silver contacts. Operates on 110 volts A.C.  
 57 NP 10767—Shipping weight, 1 pound ..... **\$2.94**
- (N) Antenna Relay.** Efficient . . . fast . . . noiseless! Handles a full Kilowatt. Ceramic insulation throughout. Metal parts chrome plated. Base area 3 1/2 x 4 1/2 inches. Overall height is only 2 3/4 inches. Operates on 110 volts A.C.  
 57 NP 10766—Shipping weight, 2 pounds. .... **\$4.56**



## Advance and Staco Relays

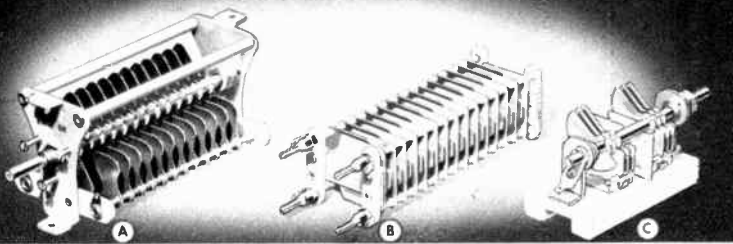
- (P) Advance H.D. Relays.** Handles 15 Amperes, D.P.D.T. Isolantite base and cross arm. 3/4-inch silver complete wiping contacts. For 110 volts A.C. Size, 3 1/2 x 2 3/4 x 1 1/2 inches high. Shipping weight, 2 pounds.  
 57 NP 19406—Type 100. .... **\$5.40**
- (Q) Advance General Purpose Relay.** Entire relay is "above ground." Size, 2 1/4 x 1 1/2 inches. Height, 1 1/2 inches. For 110 volts A.C. Shipping weight, each, 1 pound.  
 57 NP 19402—Type 953SP-DT. .... **\$2.10**
- (R) Staco Antenna Change-Over Relay.** 3/16-inch pure silver contacts. Handles 4 amperes. Double pole, double throw. Base 3 1/2 x 3 1/2 inches. For 110 volts A.C. Shipping weight, 2 pounds.  
 57 NP 19407. .... **\$2.94**



## Allied Control Co. Relays

- (S) Type P.C.** Layer wound impregnated coils. Cadmium plated metal parts. Magnetic path: electrical iron on D.C. Silicon steel on A.C. Rating 5 amperes, of non-inductive A.C. Not more than 10 operations per minute. SPDT plate circuit type. Adjustable for pull-in from 6 to 8 mills and drop out at 3 to 5 mills. 2500-ohm coil. Shipping weight, 1 pound.  
 57 NP 10480—Each. .... **\$1.47**  
 57 NP 10481—DPDT—For 110 volts A.C. .... **1.57**
- (T) Type H Antenna Change Over.** Layer wound coils. Also suitable for switching of band crystal, or tank circuits. Impregnated. Alsimag insulation. Wide spacing throughout. D.P.D.T. contacts with ample weight and high contact pressure. Silver contacts, 1/4 inch diameter. Shipping weight, 2 pounds.  
 57 NP 10482—For 125 volts A.C. .... **\$5.44**

# BUD Variables



## Bud Junior Transmitting Condensers Single and Dual Types

(A) The low minimum capacities of these units make them especially suitable for multi-band applications where a high maximum-to-minimum ratio is required. Alsimag 196 stator insulation. Electro soldered construction. Formed brackets on two sides of both end plates. Brass plates. Cadmium plated throughout. Panel space 3x2 1/4 inches. \*Indicates Dual Types.

Catalog Number	Type	Range Mmfd.	Air Gap, Inch.	Plates Per Sec.	Frame Leng. In.	Shpg. Wt.	Price Each
57 NP 10675	JC 1525	4-50	.051	7	2 1/2 in.	2 lbs.	\$2.15
57 NP 10678	JC 1526	6-100	.051	13	2 1/2 in.	2 lbs.	2.59
57 NP 10677	JC 1532	6-55	.078	11	3 in.	2 lbs.	2.47
57 NP 10678	JC 1534	9-110	.078	21	4 1/4 in.	2 lbs.	3.00
57 NP 10679	JC 1540	9-55	.144	17	4 1/4 in.	2 lbs.	3.00
57 NP 10680	JC 1541	12-80	.144	25	5 1/4 in.	3 lbs.	3.44
57 NP 10681*	JC 1551	5-50	.051	17	4 1/4 in.	2 lbs.	3.62
57 NP 10682*	JC 1553	6-100	.051	13	5 in.	3 lbs.	4.74
57 NP 10683*	JC 1559	6-55	.078	11	5 1/4 in.	3 lbs.	4.26
57 NP 10684*	JC 1561	9-110	.078	21	7 1/4 in.	3 lbs.	6.35
57 NP 10685	JC 1565	9-55	.144	17	8 1/4 in.	3 lbs.	6.00

## Bud Stat-Air Condenser

(B) Designed to parallel the tuning Condenser in Multi-band R.F. Amplifiers to maintain proper L/C ratio over large frequency ranges. Electric soldered brass plates. Alsimag 196 insulation. Mounting area 1 1/4 x 1 1/2 inches. FA 781 Cap., 100 Mmfd. Air Gap, .144 in. A high quality condenser made to Bud exacting standards. Shipping weight, 2 pounds.

57 NP 10698..... \$3.88

## Bud Double Gang Midgets

(C) Cadmium plated plates. Ceramic base. Air Gap, .060 inch. Shipping weight, ea., 1 pound.

57 NP 10689—MC 942. Range 4 to 20 Mmfd. per sec. 6 Midline plates. Frame length 3 3/4 in. .... \$2.35

57 NP 10690—MC 1887. Range 8 to 50 Mmfd. per sec. 15 Semicircular plates. Frame length 5 1/4 in. .... \$2.76

See top of Next Column for Single Gang—Single Bearing Midgets

## Miniature Condensers



## Bud Midget Condensers

(J) Alsimag 196 insulation. Semi-Circular Cadmium finished plates. Double bearing. 57 NP 10691—MC 1853. Range 6 to 50 Mmfd. 7 plates. Air Gap .024 in. Length 1 1/4 in. Shpg. wt., 8 oz. .... \$1.23

57 NP 10692—MC 1863—Double Space. Range 8 to 50 Mmfd. Air Gap .060 in. 15 plates. Length 2 1/4 in. Shpg. wt., 8 oz. \$1.50

57 NP 10693—MC 1867—Triple Spaced. Range 10 to 50 Mmfd. Air Gap .095 in. 23 plates. Length 4 1/4 inches. Shipping weight, 1 pound. .... \$1.85

## Bud Tiny Mite Condensers

(K) For tuning ultra-high frequency Circuits. Alsimag 196 insulation. Cadmium plated plates. Panel Mounting Space 1 1/2 x 1 1/4 in. Air Gap .017 in. Shpg. wt., ea., 8 oz.

57 NP 10694—LC 1641 Range 3 to 15 Mmfd. 5 plates. .... 76c

57 NP 10695—LC 1643 Range 5 to 35 Mmfd. 13 plates. .... 94c

57 NP 10696—LC 1645 Range 7 to 75 Mmfd. 29 Plates. \$1.18

## Tuning and Band Spread Condenser Combination

Experimenters! Here is a real value, A3-gang Superheterodyne-type 281.2 Mmfd. tuning Condenser (L) and a 3-gang 12 Mmfd. band spread condenser to match (M) . . . at a price you will hardly believe. End plates 2 3/4 x 3 1/4. Shaft diam., 3/8 in. Our supply is limited, so hurry if you want your pair. Shpg. wt., pair, 5 lbs. 57 NP 18422—Per pair as long as our supply lasts. .... \$1.49

(P) Tuning Condensers. Roller bearings on both ends. Brass wiping contacts. Clockwise rotation. Shaft 1 1/2 x 1/4 inch.

Single-Gang. Shpg. wt., ea., 8 oz. 57 NP 18780—140 Mmfd. .... \$1.08

57 NP 18781—350 Mmfd. .... \$1.08

Three Gangs. Has Compensator on short side. 57 NP 18784—140 Mmfd. .... \$1.85

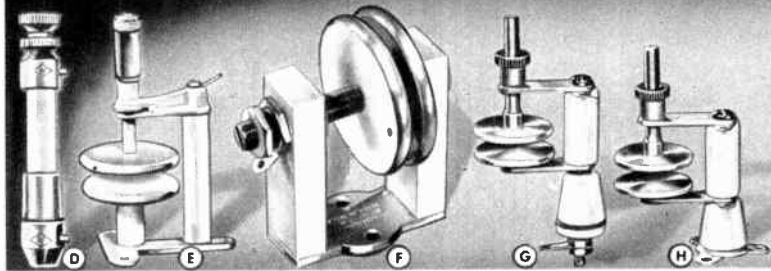
(N) Single hole mounting; 1/4-in. diam. shaft; ceramic end plate with long sleeve bearing and bronze wiper. For tuning, trimming, neutralizing. Shpg. wt., each, 8 oz.

Catalog Number	Plates	Cap. Range Mmfd.	Price
57 NP 10753	3	2.4 to 10	\$0.82
57 NP 10754	7	3.0 to 25	0.99
57 NP 10758	14	3.5 to 50	1.08
57 NP 10759	37	6.5 to 140	1.47

Two-Gang. Shpg. wt., ea., 1 lb. 57 NP 18782—140 Mmfd. .... \$1.26

57 NP 18783—350 Mmfd. .... \$1.26

Shipping wt., each, 1 lb., 8 oz. 57 NP 18785—350 Mmfd. .... \$1.91



## Bud Midget Variables

Semi-circular plates. Front bearing only. Not illustrated. Air Gap .024 in. Shipping weight, each, 8 ounces.

57 NP 10687—MC 322 Range 4 to 35 Mmfd. 5 Midline Plates. .... 76c

57 NP 10688—MC 396 Range 7 to 140 Mmfd. 19 Midline Plates. .... \$1.09

57 NP 10776—MC 1872 Range 5 to 35 Mmfd. 5 Semicircular Plates. .... 71c

57 NP 10777—MC 1876 Range 7 to 140 Mmfd. 19 Semicircular Plates. .... \$1.03

57 NP 10778—MC 1881 Range 8 to 50 Mmfd. 15 Semicircular Double Spaced Plates. Air Gap .060 in. .... \$1.06

## Hammarlund Neutralizers

(F) Thick aluminum plates with rounded edges, polished on all surfaces. Fine thread screw provides smooth adjustment. Lock nut setting; plates cannot touch. Isolantite insulation.

Catalog Number	Cap. Mmfd.	Shipping Weight	Price Each
57 NP 19661	2.1-10	1 lb., 8 oz.	\$2.76
57 NP 19662	3.2-14	2 lbs.	5.22
57 NP 19663	3.8-14	2 lbs.	5.58

## Bud Neutralizers

(G) Feed Thru Type. Especially suitable for tubes with grid lead terminating in base. One hole mounting. Aluminum plates. Alsimag 196 insulation.

57 NP 10672—NC 852. 1-inch plate. For Hy 60, 807, 6L6G and similar tubes. Shipping wt., 1 lb. .... 88c

57 NP 10673—NC 853. 1 1/2 inch plate. For 35 T, 7Z40, HK54 and similar tubes. Shpg. wt., 2 lbs. .... \$2.06

(H) Beam Tube Type. As illustrated, otherwise same general construction as above.

57 NP 10674—NC 890. 1-inch plates. Shipping weight, 12 oz. .... 79c

MC Type. Not illustrated. Double bearing. Equipped with locking screw. Capacity range 3.5 to 10 Mmfd. Air Gap .130 in. 5 plates. Length 2 1/4 in. Shipping weight, 1 pound.

57 NP 10948—MC 564. .... \$1.26

## National Neutralizers

(D) National NC-600 Neutralizing Condenser. Suitable for 6L6's and similar tubes. Adjustable 1/2 to 5 mmf. .... 30c

57 NP 19156—Shpg. wt., 4 oz. .... 30c

(E) NC-800 Neutralizing Condenser for RCA-800 and similar tubes. 57 NP 19157—Shpg. wt., 2 lbs. .... \$1.98

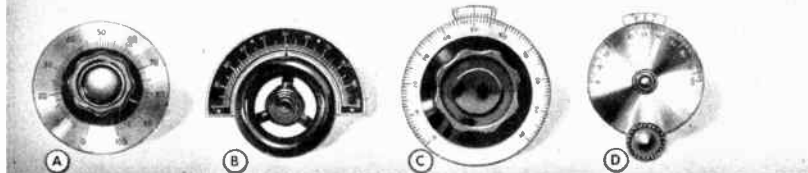
57 NP 19158—NC-150 Same as NC-800 except for HK345, RK36, 300T and 2852's. Shpg. wt., 3 lbs. .... \$4.29

57 NP 19159—NC-500 for WE251A and similar tubes. Shpg. wt., 5 lbs. .... \$8.25

National TCN Neutralizer. (Not illustrated.) Maximum capacity of 25 mmf. and a 6000-volt rating. Suitable for 203A, 852, and 204A tubes.

57 NP 19160—Shpg. wt., 1 lb., 6 oz. .... \$2.40

# Precision Dials



## Dial Plates and Knobs

(A) Silver color satin finished plates. Calibrations 0-100. Black bakelite knobs. Bar knobs also suitable. Shipping weight, each, 4 oz.

Dial Plates Only	Overall Diameter	Degrees	Price Each
57 NP 10332	2 in.	180	32c
57 NP 10333	2 in.	325	32c
57 NP 10334	3 1/2 in.	180	54c
57 NP 10335	3 1/2 in.	325	54c
57 NP 10336	4 in.	180	62c

Knobs for Above Dial Plates. Shpg. wt., each, 4 oz.

57 NP 10320—1 1/2-inch. Pointer type for 2-in. plate. .... 35c

57 NP 10338—2 1/4-inch. Flange type for 3 1/2-inch plate. .... 35c

57 NP 10339—3-inch. Flange type for 4-inch plate. .... 40c

## Gardon Handwheels

(B) Moulded Bakelite wheel. For 1/4-inch shaft. Brass pointer.

Hand Wheels Only. Shpg. wt., each, 1 lb.

Catalog No.	Diam.	Pointer	Each
57 NP 18115	3 1/4 in.	Yes	82c
57 NP 18116	3 1/4 in.	No	76c
57 NP 18117	2 1/4 in.	Yes	71c
57 NP 18118	2 1/4 in.	No	65c
57 NP 18119	1 1/2 in.	Yes	29c
57 NP 18120	1 1/2 in.	No	24c
57 NP 18121	1 1/2 in.	Yes	24c
57 NP 18122	1 1/2 in.	No	18c

Scales Only. Shpg. wt., each, 6 oz.

Catalog No.	Wheel Size	Each
57 NP 18123	For 3 1/2-in.	30c
57 NP 18124	For 1 1/2 or 2 1/4-in.	24c
57 NP 18125	For 1 1/2-in.	24c

## Chrome Plated Dials

(C) Accurately etched with black numerals. Finger grip knob with brass bushing for 1/4-inch shaft and marker included. Calibrated 0-100. Shipping weight, each, 1 pound.

Catalog Number	Degrees	Diam., Inches	Price Each
57 NP 13218	325	2 3/4	0.97
57 NP 13219	180	2 3/4	0.97
57 NP 13220	325	4	1.41
57 NP 13221	180	4	1.41

## ICA Vernier Dial

(D) Attractive dial for receivers, transmitters and laboratory apparatus. Satin chrome finish. Calibrated 0-100 over 180 degrees. Comes complete with friction drive tuning knob. A remarkable value in a dial of this type.

57 NP 10317—Diameter, 2 3/4 inches. Shpg. wt., 1 lb. .... \$1.03

57 NP 10318—Diameter, 4 inches. Shpg. wt., 1 lb., 8 oz. .... \$1.32

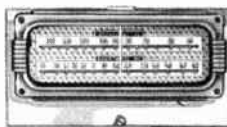
## Slide Rule Dials

Requires panel opening of 1 1/2 in. x 3 3/4 in. Tuning shaft couples direct to condenser shaft. Mounting holes in front plate for fastening with angle brackets or mounting to front of chassis. Complete with escutcheon plate.

57 NP 18101—Shpg. wt., 1 lb., 8 oz. .... \$1.08

Requires panel opening of 1 1/2 in. x 5 1/2 in.—pointer travel 4 1/4 in. Ratio.

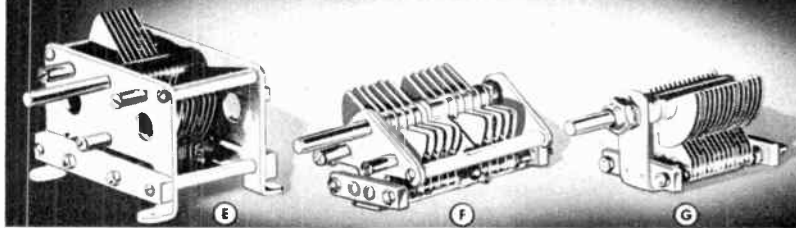
57 NP 18102—Shpg. wt., 1 lb., 12 oz. .... \$1.55



For Easy Terms See Page 2



# NATIONAL Variables



## Hammarlund Variables

### MC Midget Condensers

(A) Isolantite insulation. Silver plated Beryllium wiping contact. Cadmium plated soldered brass plates. .0245 inch air gap. Shpg. wt., each, 1 lb.

Catalog Number	*Plates	Capacity Range Mmf.	Price Each
57 NP 19433	M	320-13	\$2.40
57 NP 19435	M	200-10	1.98
57 NP 19436	M	140-8	1.80
57 NP 19438	M	100-7	1.68
57 NP 19439	S	100-7.5	1.68
57 NP 19442	M	50-6	1.44
57 NP 19444	S	35-5	1.38
57 NP 19445	S	20-4.5	1.32

\*"M" Midline—"S" Semi-Circular

### APC Micro Condensers

(C) Extremely compact condensers. Ideal as air dielectric trimmers for gang condensers, I.F. transformers and for padding r.f. circuits. Isolantite base. Cadmium plated soldered brass rotors and stators. Screw driver adjustment. Air gap .015-inch. Will fit 1/4-in. diameter cans. Shipping weight, each, 1 pound.

Catalog Number	Capacity Range Mmf.	Plates	Price Each
57NP19647	50-3.9	14	\$0.90
57NP19649	100-5.5	27	1.14

### HF Micro Condensers

(D) Cadmium plated soldered brass plates and Isolantite insulation. Special wide front bearing. Very effective in tuning or trimming high frequency circuits. Shipping weight, each, 1 pound.

Catalog Number	Capacity Range Mmf.	Price Each
57 NP 19639	17-5.3	\$0.84
57 NP 19640	35-3.6	.96
57 NP 19641	50-4.1	1.02
57 NP 19642	100-5.6	1.26
57 NP 19643	140-6.7	1.44

### SM Star Midgets

(B) Bakelite insulation. Straight line capacity. Single hole mounting. Shaft 1/4-inch diameter. Size is 1 1/8 inch wide by 1 3/8 inch high. Shipping weight, each, 1 pound.

Catalog Number	Capacity Range Mmf.	Price Each
57 NP 19654	15-3	\$0.54
57 NP 19655	25-3.5	.54
57 NP 19656	50-4	.60
57 NP 19657	100-6	.72
57 NP 19658	140-7	.84

### All Purpose Condenser

(E) National EMC Condensers have high electrical efficiency, and reliable calibration. Isolantite insulation. Peak Voltage Rating 1000 volts. Plate Shape is straight line wave length.

Catalog Number	Cap. Mmf.	No. of Plates	Shpg. Wt.	Price Each
57 NP 19105	150	9	2 lbs.	\$2.14
57 NP 19107	350	20	2 lbs.	2.80

### Type TMS

(F) Designed for transmitter use in low power stages. Compact, rigid, dependable. Mounts either on the panel, on chassis, or on two stand-off insulators.

Catalog Number	Cap. Mmf.	Volts	Shpg. Wt.	Price Each
57NP19H96	100	1000	2 lbs.	\$1.65
57NP19H97	150	1000	2 lbs.	1.81
57NP19100	50-50	1000	2 lbs.	2.47
57NP19101	100-100	1000	2 lbs.	2.97
57NP19103	50	2000	2 lbs.	2.14
57NP19104	50-50	2000	2 lbs.	2.64

### Type TMC Condensers

Same general appearance as Type EMC. For use in power stages of transmitter where peak voltage does not exceed 3000. Aluminum plates, with buffed edges. Isolantite insulation. Fine quality rigid frame.

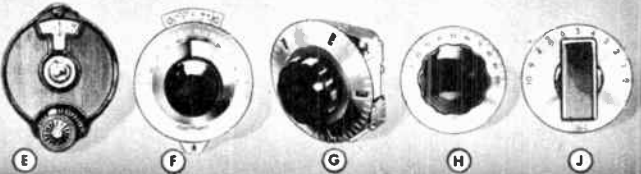
Catalog Number	Capacity	Shpg. Weight	Price Each
57 NP19092	100	2 lbs.	\$2.97
57 NP19093	150	2 lbs.	3.46
57 NP19095	100-100	3 lbs.	4.95

### Type SEH

(G) The SEH Condenser has 270° Straight-Line-Frequency plates. Insulation is Isolantite. Two rotor bearings. Air gap .018 inch.

Catalog Number	Capacity Mmf.	Shpg. Wt.	Price Each
57 NP 19118	250	2 lbs.	\$2.14
57 NP 19120	335	2 lbs.	2.31

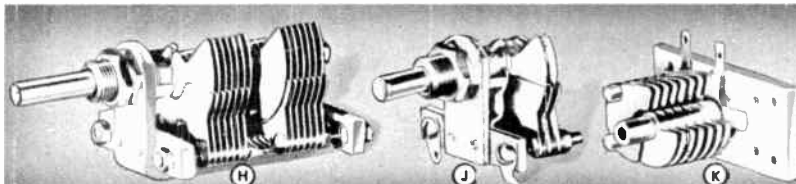
## for Ham Gear



## National Dials and Knobs

- (E) "BM" Dial—"Velvet Vernier" action. Variable ratio drive. Black Bakelite case. Diameter, 3 inches. For 1/4-in. shaft. Shipping wt., each, 1 lb. 8 oz.  
57 NP 19039—0-100-0 for either clockwise or counter clockwise condenser. 180 degrees. \$1.65
- (F) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (G) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (H) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (I) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (J) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (K) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (L) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (M) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (N) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (O) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (P) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (Q) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (R) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (S) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (T) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (U) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (V) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (W) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (X) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (Y) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65
- (Z) "N" Dial—Same as "BM" except 4 inches in diameter. 1.65

We have in stock many Hammarlund, National, Cardwell and Johnson Variables which do not appear in this catalog. If the type you require is not listed on these pages, write to Sears Personal Service Department, Chicago, giving manufacturer's number of condenser wanted



### National Type ST

(H) Has 180° Straight-Line-Wave length plates. General construction is the same as the SEH Condenser except its overall height is less. All models are double bearing. Two split-stator models are available. 57 NP 19137 has .018 inch Air Gap; others have .026 inch Air Gap.

Catalog Number	Cap. Mmf.	Shpg. Wt.	Price Each
57 NP 19131	50	1 lb.	\$1.18
57 NP 19133	100	1 lb.	1.48
57 NP 19135	150	2 lbs.	1.65
57 NP 19137	250	2 lbs.	1.98

### Type UM

(K) Designed for ultra-high frequency use. Small enough for convenient mounting in shield cans. Particularly useful for tuning receivers, transmitters and exciters.

Shaft extension— at each end of the rotor permit easy ganging when used with flexible coupling. Can be mounted by the angle foot supplied or by bolts and spacers. Air Gap, .017 inch. Shipping weight, each, 1 pound.

Catalog Number	Cap. Mmf.	Price Each
57NP19142	15	\$0.82
57NP19143	35	.99
57NP19144	50	1.06

For Easy Terms See Page 2

### "Experimenter" Models

(J) All-brass construction. Bakelite insulation. Rotor has one bearing. Removable plate. Items marked (\*) have double spaced plates. Shipping weight, each, 1 lb.

Catalog Number	Cap. Mmf.	Air-Gap	Price Each
57 NP 19121*	15	.045 inch	56c
57 NP 19122*	25	.045 inch	56c
57 NP 19123*	35	.045 inch	66c
57 NP 19124	50	.017 inch	59c
57 NP 19125	100	.017 inch	66c
57 NP 19126	140	.017 inch	82c

### National Mica Padders

M30 Isolantite Base. Maximum capacity, 30 mmf. Size, 1 1/4 x 1 1/4 x 1/2 inch. Shipping weight, 4 ounces.

57 NP 19154 20c

### Hammarlund Type MEX Padder

Maximum capacity, 30 mmf. Size 1/2 x 1/2 inch. Shipping weight, 4 ounces.  
57 NP 19498 18c

### ICA Ceramic Padders

For aligning tandem condensers hand switching coils etc. High grade Mica dielectric, phosphor bronze sprung contacts. Shpg. wt., each, 8 oz.

Catalog Number	Minimum Copy Mmf.	Max. Copy Mmf.	Price Each
57 NP 12950	1	50	24c
57 NP 12951	12	120	24c
57 NP 12952	130	450	27c



### Pointer Knobs

- (K) Black Bakelite. Shipping weight, each, 4 ounces.  
57 NP 10319—1 1/4 in. 27c  
57 NP 10320—1 1/4 in. 35c  
57 NP 10321—2 1/4 in. 40c  
57 NP 10322—1 1/4 in. less pointer. 22c

- (L) Bar Knob. Black Bakelite. Shipping weight, each, 4 ounces.  
57 NP 19712—1 1/4 inches. 6c  
57 NP 19713—2 1/4 inches. 7c

### Replacement Knobs

- (M) 57 NP 10325—Diam. 1 in. Walnut finish. Shipping weight, 2 oz. 8c
- (N) Round Type Walnut finish. Shipping weight, 2 oz.  
57 NP 10326—Diam. 3/4 in. 9c  
57 NP 10327—Diam. 1 in. 10c
- (P) Wing Type. Walnut Finish. Shipping weight, 2 oz.  
57 NP 10328—Diam. 3/4 in. 8c  
57 NP 10329—Diam. 1 in. 9c

# Coil-Chokes and Inductors

## Powermaster Iron Core I. Fs.

(A) Ceramic base, selected India ruby mica pre-aged plates assure stability of operation. Can size, 1 1/4 in. square x 3 1/2 in. high. Transformers for grid cap tubes as 6A7, etc. Shipping weight, each, 1 lb.

Frequency K. C.	Input TFR Catalog No.	Price Each	Output TFR Catalog No.	Price Each
175 KC	57NP10800	98c	57NP10803	98c
456 KC	57NP10801	98c	57NP10804	98c
1500 KC	57NP10802	\$1.18	57NP10805	\$1.18

## Powermaster Double Tuned I. Fs.

(B) Ceramic base and selected mica dielectric. Standard R.M.A. impregnated color coded leads. Cans size, 1 1/4 in. square x 3 1/2 in. high for Grid Cap type tubes, as 6A7, etc. Shipping weight, each, 1 pound.

Frequency	Input No.	Price Each	Interstate Cat. No.	Price Each	Output Cat. No.	Price Each
175 KC	57NP10812	70c	57NP10815	70c	57NP10818	70c
262 KC	57NP10813	70c	57NP10816	70c	57NP10819	70c
456 KC	57NP10814	70c	57NP10817	70c	57NP10820	70c

## Center-Tapped Outputs

Frequency KC	Catalog Number	Price Each
175 KC	57 NP 10830	70c
456 KC	57 NP 10831	70c

## Powermaster 2-Pie High Imped. Coils

Cover broadcast band (540-1750 KC) with antenna section capacity of tuning condenser. As specified—thoroughly impregnated. Shpg. wt., 8 oz. (C) Shielded—Round Can 1 1/2 x 2 1/2 in. high.

Tuning Cond'sr Ant. See Copy	Antenna Coil Catalog No.	Price Each	R.F. Coil Catalog No.	Price Each
350 Mmf.	57NP10877	70c	57NP10878	70c

(D) Unshielded Coils—Shipping weight, 4 ounces. 350 Mmf. | 57NP10875 | 49c | 57NP10876 | 49c

## R. F. Chokes

(E) Insulux mounted, designed for short wave work. Suitable for any circuit position. Impregnated with special R.F. lacquer. Shpg. wt., each, 4 oz.

Catalog Number	Inductance M. H.	D. C. Resistance	Current M. A.	Price, Each
57NP10352	2.5	30 ohms	150	21c
57NP10353	10.0	73 ohms	150	27c
57NP10354	30.0	136 ohms	125	32c
57NP10355	80.0	222 ohms	125	44c

## Pig Tail R.F. Chokes

(F) High frequency pigtail type R.F. Choke. Insulux form. Inductance 2.5 M.H., D.C. resistance 16 ohms, capacity 150 M.A. Shpg. wt., 3 oz. 57 NP 18790—Each.....19c

## Space Wound R. F. Chokes

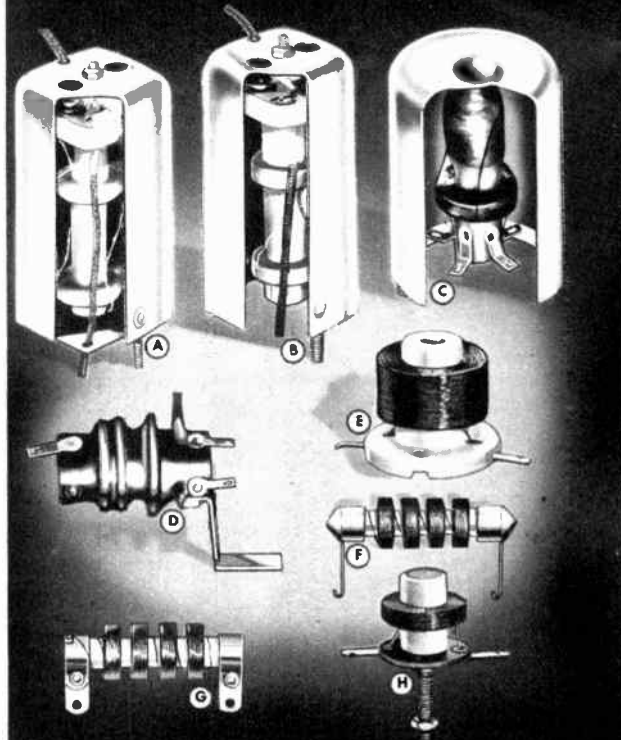
(G) Strap leads. Insulux low loss form. Enameled wire. Impregnated. Shipping wt., each, 4 oz.

Catalog Number	Inductance M. H.	D. C. Resistance	Current M. A.	Price, Each
57NP10360	2.5	24 ohms	150	24c
57NP10361	10.0	78 ohms	150	32c
57NP10362	60.0	195 ohms	125	44c
57NP10363	80.0	250 ohms	125	49c

## High "Q" R. F. Chokes

(H) ICA Iron Core high "Q" R.F. chokes. High impedance with low distributed capacity. Provides maximum inductance with minimum size and D.C. resistance. Shipping weight, each, 4 oz.

Catalog Number	Inductance M. H.	D. C. Resistance	Current M. A.	Price, Each
57NP10356	2.5	30 ohms	150	35c
57NP10357	10.0	73 ohms	150	42c
57NP10358	30.0	136 ohms	125	48c
57NP10359	80.0	222 ohms	125	61c



# E. F. Johnson Hi-Q Plug-In Inductors

## Rotating Coil Type

For inputs up to 350 watts. Wound on ribbed ceramic forms. Rotor link for coupling. 10, 20, 40 meter units couple into impedances as high as 600 ohms. 80, 160 meter type couple into 75 ohm line. Also supplied without coupling coil for capacity coupled stages. Shpg. wt., ea., 2 lbs.

With Link			Less Link		
Catalog Number	Each	Band Meters	Catalog Number	Each	Band Meters
57 NP 10054	\$2.20	10	57 NP 10060	\$1.15	
57 NP 10055	2.32	20	57 NP 10061	1.23	
57 NP 10056	2.41	40	57 NP 10062	1.29	
57 NP 10057	2.50	80	57 NP 10063	1.35	
57 NP 10058	2.59	160	57 NP 10064	1.41	

57 NP 10059—Stearite socket base for use with above coils. Shipping weight, each, 8 ounces.....59c

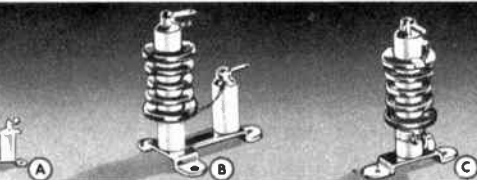
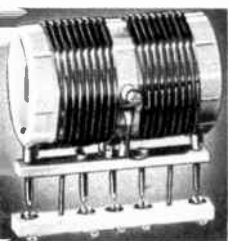


## Tube Socket Type

Mounts in 5-contact tube socket. Rated at 100 W. Ideal for oscillator, low-power amplifier stages. Ribbed ceramic forms. Holes provided for internally mounting Johnson "J" condenser. With center tap and center link coupling, or with link at bottom. Shipping weight, each, 6 ounces.

With Center Link			With End Link		
Catalog Number	Each	Band Meters	Catalog Number	Each	Band Meters
57 NP 10042	97c	10	57 NP 10049	91c	
57 NP 10043	97c	20	57 NP 10050	91c	
57 NP 10044	97c	40	57 NP 10051	91c	
57 NP 10045	97c	80	57 NP 10052	91c	
57 NP 10046	97c	160	57 NP 10053	91c	

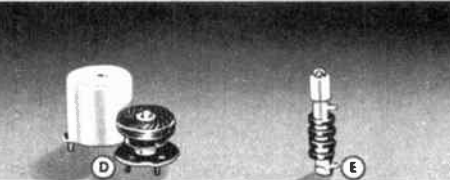
57 NP 10047—4-prong coil form only. Shipping weight, each, 6 ounces.....47c  
57 NP 10048—5-prong coil form only. Shipping weight, each, 6 ounces.....47c



(A) National R-175 Choke. Suitable for either parallel or series for circuits of transmitters or up to 3000 volts modulated plate supply. DC resistance, 6 ohms, 800 MA., 2.25 MH. Dist. Capacity. 0.6 ufd. Shipping weight, 1 pound. 57 NP 19155—Each.....\$1.81

(B) National Honeycomb Coil Transmitter Chokes. Universal chokes with honeycombed-type windings. Rated at 600 ma. continuously. .016 amperes Insulux core. Shipping weight, each, 8 ounces. 57 NP 19298—R-152. For 80 and 160 meter bands. Inductance, 4 m.h.; D.C. resistance 10 ohms.....\$1.35

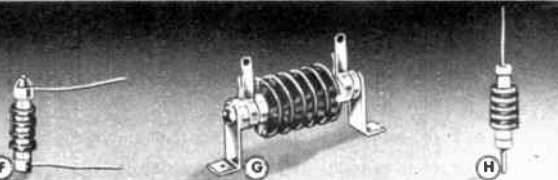
(C) 57 NP 19300—R154U. Same as R-154 except that it has no insulating pillar or third mounting foot. Shipping weight, each, 8 ounces.....\$1.15



(D) National Law Frequency Oscillator Coil. Two separate inductances, closely coupled, in an aluminum shield. Secondary inductance 6.25 m.h.; tunes to 100 K.C. with .00041 Mfd. condenser. Type OSR. 57 NP 19301—Shipping weight, 6 ounces.....99c

(E) National R-100 U Choke. Inductance 2 1/2 m.h.; distributed capacity 1 mmf.; D.C. resistance 50 ohms. Current rating 125 M.A. Shipping weight, 4 ounces. 57 NP 19303—Type R-100 U.....39c

Have you read the notice on Page 2 regarding possible price changes? It explains why we cannot guarantee prices in this catalog.



(F) National R-100 Choke. Insulantite mounting. Continuous universal winding in 4 sections. Same electrical properties as R-100 U at left. Shpg. wt., each, 4 oz. 57 NP 19304—Type R-100.....33c  
57 NP 19348—Same as R-100 except 1 m.h., 300 M.A., 10 ohms.....33c

(G) Hammarlund CH-500 Choke. Inductance 2.5 m.h.; D.C. resistance 8 ohms, Distributing capacity, 1.5 mmf. rating 500 M.A. 57 NP 19693—Shipping weight, 8 ounces.....\$1.05

(H) Hammarlund CHX Midget Choke. Size 1 1/2 in. long x 1/2 in. diam. Inductance 2.1 m.h.; D.C. resistance 25 ohms, Distributing capacity, 1 mmf., rating 125 m.a. 57 NP 19694—Shipping weight, 4 ounces.....30c

## Plug-In Coils

Ribbed Bakelite forms. Space wound. For 140 Mmf. tuning condenser. Two windings, tickler and grid input. Size: Diam., 1 1/4 in., ht., 2 1/2 in.

57 NP 18791—Set of four 4-prong to cover 9.5 to 217 meters. Shipping weight, 1 pound.....\$1.29  
57 NP 18792—Set of two coils to cover 190 to 550 meters. Shpg. wt., 12 oz. 99c  
57 NP 18793—Single 4-prong coil to cover 9.5 to 21 meters. Shipping weight, 8 ounces.....35c

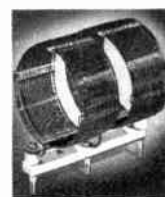


TYPE OEL is End Linked. Type OCL is Center Linked. Capacity given in table is the total capacity required to tune to resonance at the low frequency end of the band.

## Bud OEL, OCL, and OLS Plug-in Coils

Compact air-wound inductors for use in all stages with inputs of 50 watts or less. Glazed ceramic mounting base fits 5-prong tube socket. Center link type is center tapped. Shipping weight, each, 8 ounces.

Catalog No.	Band Capacity	Each
Center (OCL) or End Link (State choice)		
57 NP 10903	160-M 90 Mmf.	\$1.03
57 NP 10904	80-M 75 Mmf.	.97
57 NP 10905	40-M 50 Mmf.	.97
57 NP 10906	20-M 33 Mmf.	.97
57 NP 10907	10-M 28 Mmf.	.97
57 NP 10908	5-M 18 Mmf.	.79
Type OLS Adjustable Center Link		
57 NP 10910	160-M 95 Mmf.	\$1.03
57 NP 10911	80-M 75 Mmf.	.97
57 NP 10912	40-M 50 Mmf.	.97
57 NP 10913	20-M 33 Mmf.	.97
57 NP 10914	10-M 21 Mmf.	.97



## Bud Air Wound Transmitter Coils

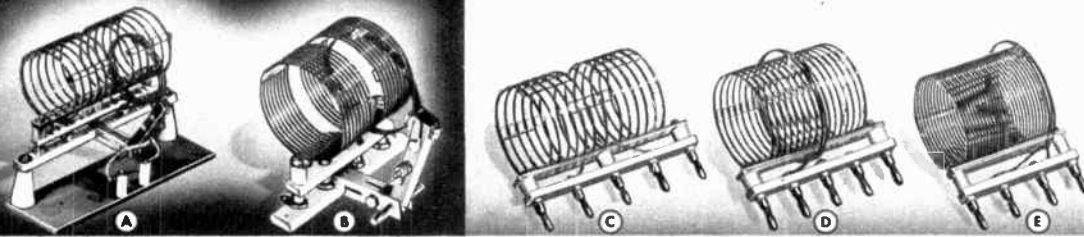
For use in tank circuits where input power does not exceed 150 watts. Coils, "Air-Wound" with enameled copper wire. Mounting bar, Alsimag 196. Hardware, nickel plated brass. Capacity given is that required to tune at low end of band. Shipping weight, each, 1 pound.

Catalog Number	Band	Capacity Required	Price Each
57 NP 10935	160	87 Mmf.	\$2.44
57 NP 10936	80	68 Mmf.	2.26
57 NP 10937	40	36 Mmf.	2.08
57 NP 10938	20	27 Mmf.	1.76
57 NP 10939	10	25 Mmf.	1.62

57 NP 10941—Mounting Base. Shpg. wt., ea., 8 oz. 59c

All items in this catalog available on Easy Terms. See Page 2

# BARKER AND WILLIAMSON Inductors



## B. and W. Swinging Link Inductors

You can buy no finer apparatus for adjustable link setups. Supplied with 4 plugs to provide twin metering in the plate circuits of push pull stages. All base assemblies allow front-of-panel couplings control. Swinging link may be coupled direct to feeders of approximately 72 ohms.

Band (Meter)	Type BVL 100 Watts			Type TVL 250 Watts			Type HDVL 1 Kilowatt		
	Catalog Number	Shpg. Wt.	Price	Catalog Number	Shpg. Wt.	Price	Catalog Number	Shipping Weight	Price
160	57NP7650	12 oz.	\$2.10	57NP7656	1 lb.	\$2.25	57NP7661	2 lbs. 4 oz.	\$5.25
80	57NP7651	12 oz.	1.90	57NP7657	1 lb.	2.15	57NP7662	2 lbs. 4 oz.	4.50
40	57NP7652	12 oz.	1.65	57NP7658	1 lb.	1.90	57NP7663	2 lbs. 4 oz.	4.00
20	57NP7653	12 oz.	1.45	57NP7659	1 lb.	1.65	57NP7664	2 lbs. 4 oz.	3.75
10	57NP7654	12 oz.	1.40	57NP7660	1 lb.	1.60	57NP7665	2 lbs. 4 oz.	3.25
5	57NP7655	12 oz.	1.35						

- 57 NP 7666—BVL Base, Swing Link and Jack Bar. Shipping weight, 12 ounces. **\$2.50**
- 57 NP 7667—TVL Base, Link and Jack Bar. Shipping weight, 2 lbs. **\$4.00**
- 57 NP 7668—HDVL Base, Link and Jack Bar. Shipping weight, 4 lbs. **5.00**
- Model HDA. High impedance antenna matching coil for HDVL link assemblies. With three inductance clips and alsmag mounting base. **\$4.00**
- 57 NP 7740—Shipping weight, 1 pound 4 ounces. **\$4.00**
- 57 NP 7741—Model TA high impedance antenna matching coil for 250 watt or 100 watt link assemblies. Shpg. wt., 1 lb. **1.75**

## Barker and Williamson Plug-in Types

All coils are center tapped in case you want to use them that way. A complete selection of jack bar's and accessories for mounting them is listed below.

Band (Meter)	Shpg. Wt.	No Link		Center Link		End Link		Induct. Micro Henries	Cap. Mmfd. Reqd.	Wire Size	Coil Diam. In.	Outside Plug Ctrs.
		Catalog Number	Price Each	Catalog Number	Price Each	Catalog Number	Price Each					
<b>Types B and BL Rating 100 Watts</b>												
160	1 lb.	57NP7669	\$1.75	57NP7674	\$2.50	57NP7679	\$2.50	78.0	110	18	2.5	3 1/2
80	1 lb.	57NP7670	1.55	57NP7675	2.30	57NP7680	2.30	39.0	52	16	2.5	3 1/2
40	1 lb.	57NP7671	1.30	57NP7676	2.05	57NP7681	2.05	12.0	43	14	2.0	3 1/2
20	1 lb.	57NP7672	1.05	57NP7677	1.80	57NP7682	1.80	3.0	40	14	2.0	3 1/2
10	1 lb.	57NP7673	1.00	57NP7678	1.75	57NP7683	1.75	1.1	28	12	2.0	3 1/2
<b>Types BX and BXL Rating 250 Watts</b>												
160	1 lb. 4 oz.	57NP7684	\$1.80	57NP7689	\$2.80	57NP7694	\$2.80	84.0	100	14	4.0	4
80	1 lb. 4 oz.	57NP7685	1.60	57NP7690	2.60	57NP7695	2.60	37.0	54	14	3.0	4
40	1 lb. 4 oz.	57NP7686	1.35	57NP7691	2.35	57NP7696	2.35	10.0	51	14	2.5	4
20	1 lb. 4 oz.	57NP7687	1.10	57NP7692	2.10	57NP7697	2.10	2.8	45	14	2.0	4
10	1 lb. 4 oz.	57NP7688	1.05	57NP7693	2.05	57NP7698	2.05	1.0	35	12	2.0	4
<b>Types T and TL Rating 500 Watts</b>												
160	1 lb. 4 oz.	57NP7700	\$1.85	57NP7705	\$2.85	57NP7710	\$2.85	74.0	115	12	5.0	5
80	1 lb. 4 oz.	57NP7701	1.65	57NP7706	2.65	57NP7711	2.65	35.0	60	12	3.5	5
40	1 lb. 4 oz.	57NP7702	1.40	57NP7707	2.40	57NP7712	2.40	13.5	38	12	2.5	5
20	1 lb. 4 oz.	57NP7703	1.15	57NP7708	2.15	57NP7713	2.15	4.3	30	12	2.5	5
10	1 lb. 4 oz.	57NP7704	1.10	57NP7709	2.10	57NP7714	2.10	1.3	25	12	2.0	5

## B. and W. 25 and 75-Watt Coils

25-Watt "Bobbies." Tuning Capacities required at low end of band: All 160 meter coils, 100 Mmfd; 80, 30, 20 and 10 plain and center tapped coils 48 Mmfd; For all linked coils: 80 M-48 Mmfd; 40 M-35 Mmfd; 20 M-28 Mmfd. 10 M-28 Mmfd. Maximum plate potential 350 volts. Shpg. wt., each, 10 oz.

- 57 NP 17730—Not Tapped. State band wanted. **75c**
- 57 NP 17731—Center Tapped. State band wanted. **75c**
- 57 NP 17732—End Linked. State band wanted. **75c**
- 57 NP 17733—Center Linked. State band wanted. **75c**
- 57 NP 17734—Tritet Cathode. State band wanted. **75c**

75-Watt "Juniors." Tuning Capacities required at low end of band: All 160 M-100 Mmfd; All 80 M-50 Mmfd; All 40 M, 20 M, and 10 M-25 Mmfd. Maximum plate potential 850 volts. State band wanted. Shipping weight, 1 pound.

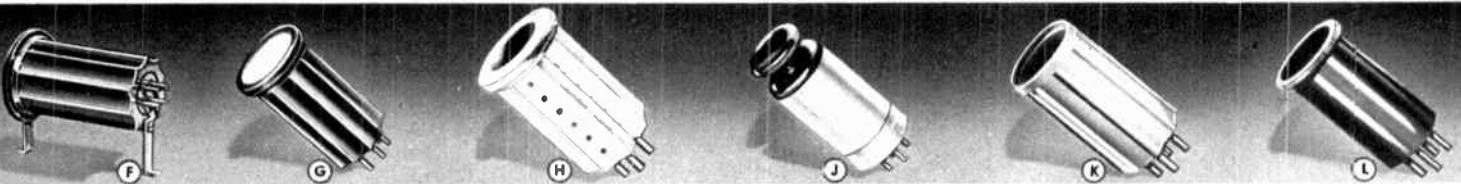
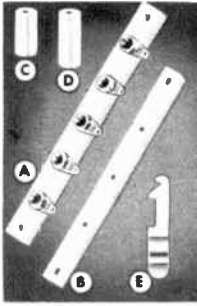
- 57 NP 10950—End Linked. **\$1.00**
- 57 NP 10951—Center Linked and Center Tapped. **\$1.00**
- 57 NP 10952—Variable Center Linked, Center Tapped. **1.00**



25 Watt **75c**  
75 Watt **\$1.00**

## Accessories for B. and W. Coils

- A** Jack Bars. Shipping weight, each, 8 ounces. **\$1.75**
- 57 NP 17743—For HD-HDL-HDV Coils. **\$1.25**
- 57 NP 17744—For T-TL-TVL Coils. **\$1.25**
- 57 NP 17745—For BX-BXL Coils. **1.15**
- 57 NP 17746—For B-BL-BVL Coils. **.85**
- B** Plug Bars. Shipping weight, each, 6 ounces. **\$1.10**
- 57 NP 17757—For HD-HDL-HDV Coils. **30c**
- 57 NP 17758—For T-TL-TVL Coils. **25c**
- 57 NP 17759—For BX and BXL Coils. **20c**
- 57 NP 17760—For B-BL-BVL Coils. **20c**
- C** Steatite Bushings. Shipping weight, 3 ounces. **3c**
- 57 NP 17747—Diam. 1/2 in. Length 3/8 in. **2c**
- 57 NP 17748—Diam. 3/8 in. Length 3/8 in. **2c**
- D** Steatite Post Insulators. Diameter 1/2 in. **15c**
- 57 NP 17750—Length 1 in. Shpg. wt., 4 oz. **15c**
- 57 NP 17751—Length 1 1/4 in. Shpg. wt., 4 oz. **15c**
- E** Inductance Clip. **10c**
- 57 NP 17756—Shipping weight, each, 2 ounces



- F** Hammarlund Transmitting Coil Form. Made of low loss XP-53. Winding diameter, 2 1/4 inches; length overall, 3 1/2 inches, exclusive of prongs. Mounting brackets included. Shpg. wt., each, 8 oz. **48c**
- 57 NP 19669—TCF-4. 4 prong. **48c**
- 57 NP 19670—TCF-5. 5 prong. **48c**
- G** Hammarlund Receiving coil form made of XP-53. Has a special threaded molded inside to permit mounting a Hammarlund APC air padding condenser. Diameter, 1 1/2 inches. Length, 2 1/2 inches. Shipping weight, each, 4 ounces. **30c**
- 57 NP 19676—SWF-5. 5 prong. **30c**
- 57 NP 19677—SWF-6. 6 prong. **36c**

- H** ICA Plug-in Coil Forms. Low-loss ceramic for use in receivers or low-power stages of transmitters. Ribbed type with side slot and holes for easy winding. 1 1/2 inch diameter. Available with either four or five prongs. Shipping weight, each, 6 ounces. **32c**
- 57 NP 10346—4 Prong. Each. **32c**
- 57 NP 10347—5 Prong. Each. **36c**

- J** Hammarlund Grip Top Forms. The low loss and stability of these forms of extruded Isolantite afford efficient high frequency performance. Have black enameled handle. Numerous holes. Diameter, 1 1/2 inches, length 2 1/2 inches exclusive of prongs. Shipping weight, each, 8 ounces. **78c**
- 57 NP 19673—CF-5. 5 prong. **78c**

**K** Small Ribbed Type Coil Form. 1 3/8-inch diameter and 2 1/4 inches high. Moulded ribs and low-loss winding. Available with 4, 5 or 6 prongs. Shipping weight, each, 2 ounces.

**L** Rim Type Coil Form. Low-loss, high dielectric strength. Moulded rim handle 1 1/4-inch diameter, 2 3/8 inches high. Available with 4, 5 or 6 prongs. Shipping weight, each, 2 ounces.

Prongs	K Small Ribbed Type		L Rim Type	
	Catalog Number	Price Each	Catalog Number	Price Each
4	57 NP 10364	15c	57 NP 10367	12c
5	57 NP 10365	15c	57 NP 10368	12c
6	57 NP 10366	15c	57 NP 10369	12c



## Bud 100-Watt Band Switch Assembly

For operation on 10, 20, 40, 80, and 160 meters. XCS-1 is a 5 coil assembly, designed for use in push-pull plate circuits, or single-ended plate circuits where plate neutralization is used. Coils in assembly, center-tapped and center linked. Either single section 100-mmfd. condenser or dual section 200-mmfd. condenser is required to tune all bands.

XCS-2 is a 3 coil assembly designed for use in single-ended pentode plate circuits and single-ended grid circuits. End-linked. 100-mmfd. condenser is required to tune all bands. Mounting area 7 in. wide x 4 in. high x 4 1/2 in. deep. Installation instructions and dial plate furnished. Shpg. wt., each, 4 lbs. **\$6.47**

- 57 NP 10900—XCS-1. **\$6.47**
- 57 NP 10901—XCS-2. Not illustrated. **\$5.88**



## Bakelite Tubing

Smooth polished material having 1/8 inch side-wall. The standard for winding your own coils. Available in either a three inch or six inch length. See page 29 for Short Wave Coil data book that will give you all information needed for coil winding. Shpg. wt., each, 12 oz.

Diam., inches	Catalog Number	3-inch Length	6-inch Length
1	57 NP 13225	26c	50c
1 1/2	57 NP 13226	26c	50c
2	57 NP 13227	26c	50c
2 1/2	57 NP 13228	26c	50c
3	57 NP 13229	26c	50c

## National Plug-in Coils

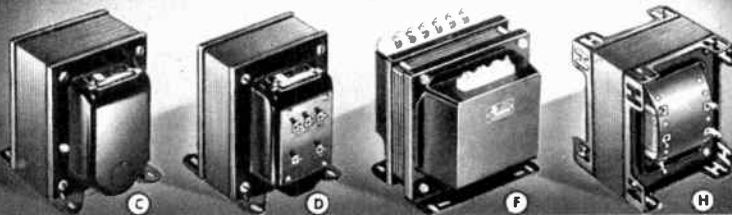
All will tune with 30 mmf. condenser. Specify End-Link, Center-Link or Swing-Link. Swing-link type not available for 5 and 160-meter bands. Plug-base included; socket and insulators are extra. Shipping weight, each, 1 lb.

- 57 NP 19310—160-M. Coil **90c**
- 57 NP 19273—80-M. Coil **90c**
- 57 NP 19274—40-M. Coil **90c**
- 57 NP 19275—20-M. Coil **90c**
- 57 NP 19276—10-M. Coil **90c**
- 57 NP 19311—5-M. Coil **90c**
- 57 NP 19277—XB16. Plug-in socket for above coils. Shipping weight, 8 ounces. **30c**
- 57 NP 19227—GS-10. 3/8-inch Steatite Cone Insulators only. For above coils. Shpg. wt., 3 oz. Each. **4 1/2c**



# STANCOR

## Broadcast Quality Transformers



### Poly-Pedance . . . All Purpose Transformers

- With ratios for present and future needs. • Correct impedance always possible. • Ratios are conveniently changed.

#### Poly-Pedance Driver Transformers

Two sizes with the maximum number of usable ratios to match any driver to the modulator grid circuit.

Catalog Number	Cap. in Watts	Pri. M.A. Per Side	RATIO Primary to Secondary	Mounting Dimensions, In. Ht. Wd. Depth	Type Mounting	Shpg. Wt.	Price
57NP18000	15	60	1.25:1, 1.4:1, 1.6:1, 1.8:1, 2:1, 2.2:1, 2.4:1	3 1/2" x 2 1/2" x 3 1/2"	1*	3 lbs.	\$4.80
57NP18001	15	60	2.6:1, 3:1, 3.2:1, 3.4:1, 4:1, 4.5:1, 5:1	3 1/2" x 2 1/2" x 3 1/2"	1*	3 lbs.	4.80

\*Indicates Ⓜ Type mounting illustrated with leads instead of lugs.

#### Poly-Pedance Modulation Transformers

Five transformers which cover a wide range of power ratings and will match practically all types of tubes to a wide variety of load impedances.

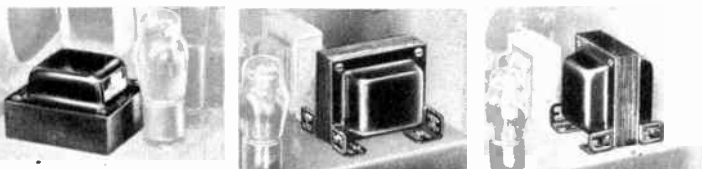
Catalog Number	Cap. in Watts	Pri. M.A. Per Side	Secondary Series	M.A. Parallel	Mounting Dimensions, Inches Ht. Wd. Depth	Type Mounting	Shpg. Wt.	Price
57 NP 18004	15	45	45	90	3 1/2" x 2 1/2" x 3 1/2"	D	3 lbs.	\$ 4.09
57 NP 18005	30	80	80	160	3 1/2" x 2 1/2" x 3 1/2"	D	6 lbs.	5.00
57 NP 18006	60	125	125	250	3 1/2" x 2 1/2" x 3 1/2"	D	8 lbs.	5.88
57 NP 18007	125	200	150	300	4 1/2" x 3 1/2" x 5 1/2"	D	12 lbs.	7.76
57NP018008	300	260	260	520	7" x 6 1/2" x 6 1/2"	F	35 lbs.	24.40

#### Poly-Pedance Line Drivers

Unit matches all common line impedances to the modulator grid circuit.

Catalog Number	Cap. in Watts	RATIO Primary to Secondary	Mounting Dimensions, Inches Ht. Wd. Depth	Type Mounting	Shipping Weight	Price
57 NP 18010	15	1:0.75, 1:0.85, 1:1, 1:1.25, 1:1.45, 1:1.75, 1:2, 1:2.25, 1:2.5, 1:2.75, 1:3.15	3 1/2" x 2 1/2" x 3 1/2"	1*	3 lbs.	\$4.41

\*Indicates Ⓜ Type mounting illustrated with leads instead of lugs.



### Universal Power Transformers

Catalog Number	No. of Tubes	Plate		Filament 1 Amps.	Filament 2 Amps.	Mounting Centers (In.)	Shpg. Wt. Lbs.	Price Each
		Volts	M.A.					
<b>2.5 Volt Universal Type</b>								
Filament 1—5 Volts C.T.; Filament 2—2.5 Volts C.T.								
57 NP 10100	4-5	650	40	2.0	4.0	2 x 2 1/2	4	\$2.18
<b>6.3 Volt Universal Power Transformers</b>								
Filament 1—5 Volts C.T.; Filament 2—6.3 Volts C.T.								
57 NP 10112	6-7	700	70	3.0	2.5	2 x 2 1/2	4	2.79
57 NP 10115	11-13	700	120	3.0	4.7	2 1/2 x 2 1/2	6	3.47
57 NP 10116	13-15	750	150	3.0	5.0	2 1/2 x 2 1/2	6	4.56



### Universal Output Transformers

Catalog Number	Output Tubes	Pri. Impedance in Ohms	Max. Audio Watts	Type Mount.	Dimensions (in.) Ht. Width Depth	Shpg. Wt. Lbs.	Price Each
57NP10139	Single or P.P. Plates	4,000; 7,000; 8,000; 10,000; 14,000 C.T.	4	Q	1 1/2" x 2 1/2" x 1 1/2"	1	\$1.09
57NP10140	Universal Single Plate	1,500; 2,000; 4,000; 5,000; 7,000; 10,000	10	Q	1 1/2" x 2 1/2" x 1 1/2"	1	1.09
57NP10141	Single or P.P. Plates	4,000; 7,000; 8,000; 10,000; 14,000 C.T.	8	Q	1 1/2" x 2 1/2" x 1 1/2"	1	1.09
57NP10145	Single or P.P. Plates	3,000; 5,000; 6,000; 7,000; 8,000; 10,000 C.T.	20	J	2 1/2" x 3 3/8" x 2 1/4"	2	2.06

### Output Transformers to Line and Voice Coil

Catalog Number	Output Tubes	Max. Audio Watts	Type Mts.	Dimensions (in.) Ht. Width Depth	Shpg. Wt. Lbs.	Price Each
57NP10146	Primary 2,000 ohms, Sec. 4 ohms.	5	A	1 1/2" x 2 1/2" x 1 1/2"	1	\$0.68
57NP10149	Primary 7,000 ohms, Sec. 0, 7, 1, 1.4 ohms.	5	Q	1 1/2" x 2 1/2" x 1 1/2"	1	.85
57NP10158	Primary 10,000 ohms, Sec. 2, 2.8, 4 ohms.	5	A	1 1/2" x 2 1/2" x 1 1/2"	1	.94
57NP10158	Primary 25,000 ohms, Sec. 4 ohms.	5	A	1 1/2" x 2 1/2" x 1 1/2"	1	.94

#### Jensen Speaker Transformers

Model Y transformers for public address use in matching impedance values of 500, 1000, 1500, 2000 and voice coil.  
 57 NP 17425—Core 3/8" inch. For models PM10C and PM12C. Shipping weight, 1 pound 8 ounces. Each. \$1.65  
 57 NP 17426—Core 7/8" inch. For models PM8H, PM12H, PM12B, A12PM. Shipping weight, 2 pounds. Each. 2.20

### Plate Transformers

Conservatively rated to supply maximum rated current under continuous operation, D.C. voltages listed are those obtained at maximum rated current drain, after allowance for voltage drop in the rectifier and two section filter. Primary voltage, 105-115, 60 cycle.

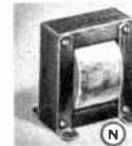
Catalog Number	D.C. Voltage After Filter	Taps	Current in M.A.	Type Mounting	Mounting Dimensions			Shpg. Wt.	Price Each
					Height	Width	Depth		
57 NP 18017	400	250	250	H	4 3/8 in.	3 3/8 in.	3 3/8 in.	9 lbs.	\$5.17
57 NP 018020	750	600-400	300	H	4 3/8 in.	3 3/8 in.	5 1/2 in.	16 lbs.	8.14
57 NP 018021	1000	750	250	H	4 3/8 in.	3 3/8 in.	5 1/2 in.	17 lbs.	9.26
57 NP 018022	1000	750	400	F	7 in.	6 1/2 in.	6 1/2 in.	32 lbs.	15.58
57 NP 018023	1250	1000	300	F	7 in.	7 1/2 in.	6 1/2 in.	26 lbs.	14.40
57 NP 018025	1500	1250	300	F	7 in.	7 1/2 in.	6 1/2 in.	30 lbs.	15.88
57 NP 018030	2000	1750	300	F	7 in.	7 1/2 in.	7 in.	42 lbs.	18.23
57 NP 018031	2500	2000	300	F	7 in.	7 1/2 in.	7 1/2 in.	43 lbs.	24.11

Get all the equipment you need, now! Only a little each month on Easy Terms. See Page 2 for details

### Filament Transformers



The most popular types for amateur radio applications. Single and Multiple Secondary types are listed separately. All Secondaries are center tapped.



These transformers are for 50-60 cycle operation.

### Filament Transformers—Single Secondary

Catalog Number	Primary Voltage	Secondary		Type Mounting	Mounting Dimensions, Inches			Insulation in Volts	Shpg. Wt. Lbs. Oz.	Price Each
		Volts	Amp.		Ht.	Wd.	Depth			
57 NP 18052	115	2.5	5.25	N	2 1/2	2 1/2	2 3/4	1,650	2	\$1.47
57 NP 18053	115	2.5	10	B	3 1/2	2 1/2	2 1/2	10,000	2	2.41
57 NP 18054	115	5	3	B	3 1/2	2 1/2	2 1/2	1,650	2	1.65
57 NP 18055	115	5	6	B	3 1/2	2 1/2	2 3/4	2,500	2	2.06
57 NP 18062	115	6.3	3	B	3 1/2	2 1/2	2 1/4	1,650	2	1.74
57 NP 18063	115	6.3	6	B	3 1/2	2 1/2	2 3/4	1,650	2	2.06
57 NP 18064	115	7.5	4	B	3 1/2	2 1/2	2 1/2	2,500	2	1.76
57 NP 18065	115	7.5	8	N	3 1/2	3 1/4	3 1/2	2,500	4	2.79
57 NP 18068	115	10	4	B	3 1/2	3	2 1/2	2,500	3	2.23

### Filament Transformers . . . Multiple Secondary

Catalog Number	Primary Voltage	Secondary		Type Mounting	Mounting Dimensions Inches			Insulation Voltage	Shpg. Wt.	Price Each
		Volts	Amp.		Ht.	Wd.	Depth			
57 NP 18073	115	2.5 C.T.	5.0	B	3 1/2	3	3	2,000	4 lbs.	\$2.47
57 NP 18074	105-115	7.5 C.T.	4.0	C	3 3/8	3 1/4	3 1/4	2,500	5 lbs.	3.53
57 NP 18075	115	6.3 C.T.	3.0	B	3 1/2	3	3	2,500	4 lbs.	2.47
		7.5 C.T.	4.0							

### Filter Chokes

Catalog Number	Inductance in Henries	Maximum Current in M.A.	D.C. Resistance in Ohms	Volts Insulation	Type Mounting	Mounting Dimensions, Inches			Shpg. Wt.	Price Each
						Ht.	Wd.	Depth		
57 NP 18042	25	140	160	3000	C	3 1/2	2 1/2	2 1/2	3 lbs.	\$2.23
57 NP 18043	20	175	100	3000	C	3 1/2	2 1/2	2 1/2	3 lbs.	2.12
57 NP 18044	15	200	80	3000	C	3 1/2	2 1/2	3 1/4	4 lbs.	2.76
57 NP 18045	15	250	60	3000	C	3 1/2	2 1/2	3 1/4	5 lbs.	3.23
57 NP 18046	12	300	80	5000	D	4 1/2	3 1/2	3 1/2	9 lbs.	5.09
57NP018048	8	500	65	5000	F	7	6 1/2	5 1/2	19 lbs.	11.11
57 NP 18050	13	300	80	3000	N	4 1/2	3 1/4	3 1/2	9 lbs.	3.70
57 NP 18083	30	80	350	1650	C	3 1/2	2 1/2	2 1/2	3 lbs.	1.82

### Filter Chokes

(Replacement types) Insulation 1600 volts. Type Ⓜ mounting.

Catalog Number	Induct. Hys.	Max. Cur. in M.A.	D.C. Resist. Ohms	Volts Insulation	Mounting Inches	Mfg. Ctrs.	Shpg. Wt.	Price Each
57 NP 18081	8	85	250	1 1/2 x 3/4	x 2 1/2	2 1/2	2 lbs.	\$1.18
57 NP 18082	9	150	200	2 1/2 x 1 1/2	x 2 1/2	3 1/2	3 lbs.	1.47
57 NP 10164	15	50	200	1 1/2 x 2 1/2	x 1 1/2	2 1/2	1 lb.	.71
57 NP 10165	15	50	400	1 1/2 x 2 1/2	x 1 1/2	2 1/2	1 lb.	.71

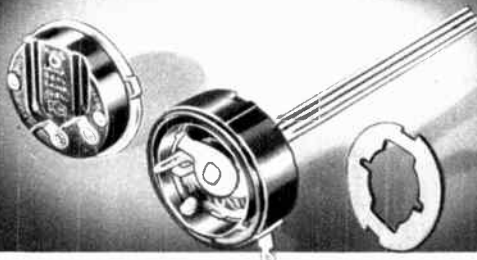
### Swinging Chokes

Choke inductances as rated by manufacturer for full load to no load current values. All units well insulated and conservatively rated.

Catalog Number	Inductance in Henries	Maximum Current in M.A.	D.C. Resistance in Ohms	Volts Insulation	Type Mounting	Mounting Dimensions Inches			Shpg. Wt.	Price Each
						Ht.	Wd.	Depth		
57 NP 18033	8-40	175	100	2000	C	3 1/2	2 1/2	2 1/2	3 lbs.	\$2.23
57 NP 18034	8-30	200	80	2000	C	3 1/2	2 1/2	3 1/4	4 lbs.	2.76
57 NP 18035	8-30	250	60	3000	C	3 1/2	2 1/2	3 1/4	5 lbs.	3.23
57 NP 18036	8-25	300	80	5000	D	4 1/2	3 1/2	3 1/2	9 lbs.	5.09
57NP018038	5-20	500	65	5000	F	7	6 1/2	5 1/2	19 lbs.	11.11
57 NP 18039	3-25	200	120	3000	N	4 1/2	3 1/4	3 1/2	5 lbs.	2.94
57 NP 18040	8-30	250	60	3000	B	3 1/2	2 1/2	3 1/4	4 lbs.	2.94
57 NP 18041	5-25	300	80	3000	N	4 1/2	3 1/4	3 1/2	9 lbs.	3.70

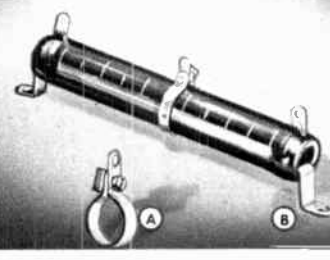
### Microphone Transformers

Catalog No.	Description	Imp. Pri.	Imp. Sec.	Type	Dimensions In.	Shpg. Wt.	Each
57 NP 10159	From S.B. Mike to Single Grid	100	58,500	J	2 x 2 1/2 x 1 1/2	1 lb.	\$1.09
57 NP 10160	From D.B. Mike to Single Grid	200 C.T.	57,000	J	2 x 2 1/2 x 1 1/2	1 lb.	1.29



# OHMITE

## Adjustable and Fixed Vitreous Resistors



### Centrallab Radiohms

Standard Radiohms without tap. Wall Type Resistor hugs inner circumference of molded bakelite case. Exclusive non-rubbing contact band assures quiet, smooth rotation and long life. Case dimensions: 1 3/4 inches diameter x 3/4 inches deep. Soft aluminum shaft extends 3/8 inches from case; milled full length for push-on or set screw knob. See resistance chart below.

Centrallab Number	Number	Ohms	Usual Circuit Location
72-118	62-118	500	Voltage Divider
72-107	62-107	1,000	Voltage Divider
72-101	62-101	2,000	Voltage Divider
72-108	62-108	3,000	Voltage Divider
72-110	62-110	5,000	Voltage Divider
70-204	52-204	5,000	Antenna Shunt
72-114	62-114	10,000	Voltage Divider
70-205	52-205	10,000	Antenna C-Bias Two Tubes
72-100	62-100	10,000	Antenna Shunt
72-111	62-111	25,000	Voltage Divider
72-103	62-103	50,000	Voltage Divider
72-117	62-117	50,000	Tone Control
72-104	62-104	100,000	Voltage Divider
72-121	62-121	250,000	A. F. Grid or Tone
72-105	62-105	500,000	A. F. Grid or Tone
72-106	62-106	500,000	Voltage Divider
70-203	52-203	500,000	Series in R. F. plates
72-140	62-140	750,000	A. F. Grid or Tone
72-116	62-116	1 Meg.	A. F. Grid or Tone

57 NP 17450—Without Switch. Give Centrallab number also. Shipping weight, each, 5 ounces ..... **59c**  
 57 NP 17451—With Switch. Give Centrallab number also. Shipping weight, each, 6 ounces ..... **88c**

### Tapped Standard Radiohm

Centrallab Number		Resistance
Without Switch	With Switch	
72-138	62-138	250,000
72-134	62-134	500,000
72-135	62-135	1 Meg
72-142	62-142	2 Megs

57 NP 17444—Without Switch. Give Centrallab number also. Shipping weight, each, 5 ounces ..... **88c**  
 57 NP 17445—With Switch. Give Centrallab number also. Shipping weight, each, 6 ounces ..... **\$1.18**



### Centrallab Fixed Resistors

Center core of resistance material is surrounded by a dense shock-proof ceramic. This provides strength and protection against humidity. Because resistance is small in diameter and uniformly distributed for entire length, Centrallab's specific resistance per unit length is low. The result is low noise level and constant value over a wide range of frequency and voltage.

Ohms	Ohms	Ohms	Ohms	Megohms
100	2,500	20,000	150,000	1
200	3,000	25,000	200,000	1.5
400	3,500	50,000	250,000	2
500	4,000	75,000	300,000	3
1,000	5,000	100,000	400,000	4
2,000	10,000	125,000	500,000	5

© Resistors with Radial Leads (Shown at upper left). State resistance wanted from above list. Shpg. wt., ea., 2 oz. .... **7c**  
 57 NP 18710—5-Watt. Each ..... **10c**  
 57 NP 18711—1-Watt. Each ..... **10c**  
 57 NP 18712—2-Watt. Each ..... **12c**

© Resistors with Axial Leads (Shown at upper right). Completely insulated RMA color coded. State resistance wanted from above list. Shpg. wt., each, 2 oz. .... **10c**  
 57 NP 10750—5-Watt. Each ..... **10c**  
 57 NP 10751—1-Watt. Each ..... **12c**

### Ohmite Dividohm Vitreous Resistors

#### 10 Watts

© Furnished with mounting brackets. Size 1 3/4 x 3/4 inch. Mounting centers 2 3/4 inches. Shipping weight, each, 4 ounces.

Catalog Number	Ohms	Price Each	Catalog Number	Ohms	Price Each
57NP19561	2	44c	57NP19515	1,000	44c
57NP19502	3	44c	57NP19516	1,500	44c
57NP19503	5	44c	57NP19517	2,000	44c
57NP19505	10	44c	57NP19518	2,500	44c
57NP19509	50	44c	57NP19519	3,000	44c
57NP19511	200	44c	57NP19520	5,000	44c
57NP19512	300	44c	57NP19521	7,500	44c
57NP19513	500	44c	57NP19522	10,000	44c
57NP19514	750	44c			

#### 25 Watts

© Complete with brackets. Size 2x1 1/4 inch. Mounting centers 2 3/4 inches. Shipping wt., each, 4 oz.

Catalog Number	Ohms	Price Each	Catalog Number	Ohms	Price Each
57NP19528	250	66c	57NP19535	7,500	66c
57NP19530	1,000	66c	57NP19536	10,000	66c
57NP19531	1,500	66c	57NP19537	15,000	66c
57NP19532	2,500	66c	57NP19538	20,000	70c
57NP19534	5,000	66c	57NP19539	25,000	70c

#### 50 Watts

© Furnished with brackets. Size 4x1 1/4 inch. Mounting centers 4 3/4 inches. Shipping wt., each, 6 oz.

Catalog Number	Ohms	Price Each	Catalog Number	Ohms	Price Each
57NP19545	500	88c	57NP19553	15,000	\$0.97
57NP19547	1,500	88c	57NP19554	20,000	.97
57NP19549	2,500	88c	57NP19555	25,000	.97
57NP19550	5,000	88c	57NP19556	50,000	1.12
57NP19551	7,500	97c	57NP19557	100,000	1.29

#### 75 Watts

© Complete with brackets. Size 6x1 1/4 inch. Mounting centers 6 3/4 inches. Shipping weight, each, 8 ounces.

Catalog Number	Ohms	Price Each	Catalog Number	Ohms	Price Each
57NP19563	500	\$1.15	57NP19570	10,000	\$1.29
57NP19564	1,000	1.15	57NP19571	15,000	1.29
57NP19567	2,500	1.15	57NP19573	25,000	1.29
57NP19568	5,000	1.15	57NP19574	50,000	1.47

#### 100 Watts

© Furnished with brackets. Size 6 1/2 x 3/4 inch. Mounting centers 7 1/4 inches. Shipping wt., each 10 oz.

Catalog Number	Ohms	Price Each	Catalog Number	Ohms	Price Each
57NP19583	10,000	\$1.47	57NP19588	75,000	\$1.78
57NP19584	25,000	1.47	57NP19589	100,000	1.78
57NP19587	50,000	1.62			

#### 200 Watts

© Furnished with brackets. Size 10 1/2 x 1 1/4 inches. Mounting centers 11 1/4 in. Shpg. wt., ea. 1 lb. 8 oz.

Catalog Number	Ohms	Price Each	Catalog Number	Ohms	Price Each
57NP19592	500	\$1.94	57NP19601	50,000	\$2.26
57NP19596	20,000	2.26	57NP19602	75,000	2.26
57NP19600	25,000	2.26	57NP19603	100,000	2.26

### Adjustable Lugs

© With Screw Head. For use on Dividohm Resistors. Shipping weight, each, 2 ounces.

Diameter inches	Catalog Number	Price Each
1 1/8	57 NP 18732	6c
7/8	57 NP 18733	9c
1 1/4	57 NP 18734	9c



### Ohmite C. T. Resistors

Ohms Resistance	For Heater or Filament Voltage Up to	Maximum Volts	Price Each
<b>Wire Wound—1-Watt</b>			
© 57 NP 18713—State resistance wanted. Shipping weight, each, 3 ounces.			
20	2.5	4	21c
50	5.0	7	21c
100	6.3	10	21c
<b>Brown Devil—10 Watt</b>			
© 57 NP 18714—State resistance wanted. Shipping weight, each, 3 ounces.			
20	7.5	14	29c
50	10.0	22	29c
100	12.0	31	29c

### R. F. Plate Choke

© Rated at 1,000 ma. For 5 meter Amateur band. Inductance 5.4 micro henries. D.C. resistance 85 ohms. Shipping weight, 3 ounces.  
 57 NP 18715—Each ..... **15c**

### Vitreous Wire Wound Resistors

Porcelain core. 10-watt units are 1 3/4 inch. 20-watt units are 2x1/2 inch. Shipping weight, each, 3 ounces.  
 57 NP 18721—10-watt units. Specify resistance from table below. Each. Up to 12,000 ohms. .... **26c**  
 Each (12,000 ohms up) ..... **29c**  
 57 NP 18722—20-watt units available in resistances marked by an asterisk (\*) in table below. Specify resistance. Each ..... **41c**  
 57 NP 18723—20-watt units of 20,000; 25,000; 30,000; 35,000; 40,000; 45,000 or 50,000 ohms resistance. Each ..... **50c**

Ohms	Ohms	Ohms	Ohms	Ohms
1	35	450	1,750*	8,000
2	40	500*	2,000*	9,000
3	50*	600	2,250	10,000*
4	75	700	2,500*	12,000
5	100*	750*	3,000*	12,500
7.5	125	800	3,500	14,500
10	150*	900	4,000*	15,000*
12	200	1,000*	4,500	16,000
15	250*	1,100	5,000*	17,500
20	300	1,200	6,000	18,000
25*	350*	1,250*	7,000	20,000
30	400	1,500*	7,500*	25,000

### Kit of 24 Carbon Resistors

This handy selection of 1-watt carbon resistors will enable you to meet practically any emergency you have whenever a resistor is required. Twenty-four different resistance values (100 ohms to 2 megohms), of finest quality resistors, guaranteed within 10% plus or minus of their indicated resistance. R.M.A. color coded. Packed with coded chart. Index in lid showing value of each unit. Every service man should have one of these convenient kits handy at all times. Order several ... keep one in your tool bag and one in your workshop. That way you'll always have the resistor you need when you want it. Shipping weight, 10 ounces.

57 NP 10220—Kit of 24 ..... **99c**

### Kit of 100 Carbon Resistors

These are 20% tolerance resistors. Not as accurate as to color coding as above but close enough for most repair jobs and experimental applications. Kit contains 100 mixed 1/4-watt, 1/2-watt, and 1-watt resistors of assorted resistance values. Shipping weight, 2 pounds.

57 NP 10221—Per Kit of 100 ..... **\$1.49**

All items in this catalog are available on Sears Easy Terms. If your order totals \$10 or more, turn to Page 2 and read how easy it is to order in this convenient way



# CORNELL-DUBILIER Capacitors

## Transmitting Capacitors

**(A) C-D Dykanol Transmitting Filter Capacitors Type TJU.** Dependable units for amateur, broadcast and commercial transmitters. Compact, lightweight, safely-rated. Universal mounting clamp, well-insulated terminals, fireproof.

Catalog Number	Cap. Mfd.	Size, Inches Length Width Thick	Price Each
<b>1000 Volts D.C. 660 rms Rect. A.C. Shpg. wt., 2 lbs.</b>			
57 NP 18596	4	4 x 1 1/2 x 3 3/8	\$3.60
57 NP 18597	4	4 1/2 x 2 1/2 x 1 1/2	4.50
<b>1500 Volts D.C. 1000 rms Rect. A.C. Shpg. wt., 3 lbs.</b>			
57 NP 18600	2	4 1/2 x 2 1/2 x 1 1/2	\$4.50
57 NP 18601	4	4 1/2 x 3 3/8 x 1 1/2	6.12
<b>2000 Volts D.C. 1500 rms Rect. A.C. Shpg. wt., 4 lbs.</b>			
57 NP 18603	2	4 1/2 x 3 3/8 x 1 1/2	\$4.68
57 NP 18604	4	4 1/2 x 3 3/8 x 2 1/4	6.48
<b>2500 Volts D.C. 1800 rms Rect. A.C. Shpg. wt., 6 lbs.</b>			
57 NP 18606	2	4 1/2 x 3 3/8 x 1 3/4	\$9.36

## Type TQ Dykanol Units

**(B)** Equipped with small insulated terminals and mounting ring, for mounting in any position. Seldom has the amateur been offered such a fine line of D-X transmitting capacitors at such low prices!

Catalog Number	Capacity Mfd.	Size, Inches Length, Diam.	Price Each
<b>1000 Volts D.C. Shipping weight, 2 pounds</b>			
57 NP 18611	1	2 3/4 x 2	\$1.98
57 NP 18612	2	2 1/2 x 2	2.70
57 NP 18613	4	3 3/8 x 2	3.42
<b>1500 Volts D.C. Shipping weight, 3 pounds</b>			
57 NP 18615	2	3 3/4 x 2	\$3.42
<b>2000 Volts D.C. Shipping weight, 4 pounds</b>			
57 NP 18617	2	4 3/8 x 2	\$3.60

## Tubular Electrolytics

**(C)** Extremely small, handy to use. Completely eliminates exact duplicate replacement capacitors. Polarity is clearly indicated on a protective varnished cardboard sleeve fitted over aluminum cartridge. Hermetically sealed. Shipping weight, each, 4 ounces.

Catalog Number	Capacity Mfd.	Size, Inches Length Width	Price Each
<b>450 Volts D.C.</b>			
57 NP 18635	4	1 1/2 x 3/8	42c
57 NP 18636	8	2 1/8 x 3/8	45c
57 NP 18637	16	2 1/8 x 3/8	54c
57 NP 18638	16	2 1/2 x 3/8	66c
57 NP 18639	20	2 1/2 x 1	72c
<b>250 Volts D.C.</b>			
57 NP 18645	8	1 1/2 x 3/8	36c
57 NP 18646	12	2 1/8 x 3/8	48c
57 NP 18647	16	2 1/8 x 3/8	54c
57 NP 18648	20	2 1/8 x 3/8	60c
<b>150 Volts D.C.</b>			
57 NP 18650	4	1 1/2 x 3/8	30c
57 NP 18651	8	1 1/2 x 3/8	33c
57 NP 18652	12	1 1/2 x 3/8	36c
57 NP 18653	16	1 1/2 x 3/8	42c
57 NP 18654	20	1 1/2 x 3/8	48c
57 NP 18655	40	2 x 3/8	51c
<b>25 Volts D.C.</b>			
57 NP 18656	10	1 1/2 x 1/2	30c
57 NP 18657	25	1 1/2 x 3/8	36c

## Dykanol Filters

**(D)** Type TLA Dykanol Filter Units in cylindrical aluminum containers. Ideal for portable transmitters, power supplies and amplifiers. One terminal is well insulated, the other being the metal can itself. Insulating washers as well as a large spade lug are provided. Shipping weight, each, 1 pound.

O.C. Volts	Catalog Number	Cap. Mfd.	Size, Inches Lgth. Diam.	Price Each
600	57 NP 18567	4	4 1/2 x 1 1/2	\$2.70
1000	57 NP 18569	2	4 1/2 x 1 1/2	2.34
1500	57 NP 18571	1	4 1/2 x 1 1/2	2.34

## Paper Tubular Units

**(E)** Non-inductively wound, specially sealed and impregnated. Wire leads. High melting point wax ends. Shipping weight, each, 4 ounces.

Catalog Number	Capacity Mfd.	Price Each
<b>400 Volts D.C.</b>		
57 NP 18658	.01	12c
57 NP 18659	.015	12c
57 NP 18660	.02	12c
57 NP 18661	.025	12c
57 NP 18662	.03	12c
57 NP 18663	.04	12c
57 NP 18664	.05	12c
57 NP 18665	.06	15c
57 NP 18666	.1	15c
57 NP 18667	.2	18c
57 NP 18668	.25	18c
57 NP 18669	.5	27c
57 NP 18670	1	36c
<b>600 Volts D.C.</b>		
57 NP 18671	.0001	12c
57 NP 18672	.00025	12c
57 NP 18673	.0005	12c
57 NP 18674	.001	12c
57 NP 18675	.002	12c
57 NP 18676	.003	12c
57 NP 18677	.004	12c
57 NP 18678	.005	12c
57 NP 18679	.006	12c
57 NP 18680	.01	12c
57 NP 18681	.015	12c
57 NP 18682	.02	15c
57 NP 18683	.025	15c
57 NP 18684	.03	15c
57 NP 18685	.04	15c
57 NP 18686	.05	16c
57 NP 18687	.06	16c
57 NP 18688	.1	18c
57 NP 18689	.2	27c
57 NP 18690	.25	27c
57 NP 18691	.3	33c
57 NP 18692	.5	36c
<b>1000 Volts D.C.</b>		
57 NP 18693	.001	15c
57 NP 18694	.002	15c
57 NP 18697	.005	15c
57 NP 18698	.006	16c
57 NP 18701	.01	24c
57 NP 18703	.02	24c
57 NP 18709	.1	30c



## Mica Receiving and Transmitting Capacitors

Shipping weight, each, 8 ounces.

Catalog Number	Cap. Mfd.	Price Each
<b>(A) Type 9—Working Voltage 600 Volts D.C.</b>		
57 NP 18454	.00025	45c
57 NP 18455	.0005	45c
57 NP 18456	.001	45c
57 NP 18458	.002	48c
<b>(A) Type 9—Working Voltage 1200 Volts D.C.</b>		
57 NP 18475	.0001	51c
57 NP 18481	.002	99c
<b>(A) Type 9—Working Voltage 2500 Volts D.C.</b>		
57 NP 18498	.001	\$1.08
57 NP 18500	.002	1.62
<b>(B) Type 4—Working Voltage 600 Volts D.C.</b>		
57 NP 18511	.00005	36c
57 NP 18512	.0001	36c
57 NP 18513	.00015	36c
57 NP 18517	.0004	36c
57 NP 18518	.0005	36c
57 NP 18519	.001	36c
57 NP 18525	.005	51c
57 NP 18526	.006	63c
57 NP 18529	.01	84c
<b>(B) Type 4—Working Voltage 1200 Volts D.C.</b>		
57 NP 18540	.001	\$0.66
57 NP 18546	.005	1.26
<b>(B) Type 4—Working Voltage 2500 Volts D.C.</b>		
57 NP 18556	.001	\$1.08
57 NP 18558	.002	1.62

# Greater Efficiency



## Sears Economy Dry Electrolytic Capacitors in Cardboard Containers

Each unit imbedded in high grade wax and then sealed in an impregnated carton. This insures efficient operation under the most adverse conditions. New high voltage formation, gives complete protection against surges and high peak voltages. Etched foil construction. Color-coded leads.

Catalog Number	Capacity Mfd.	Working Voltage	Size, Inches Wide Thick Long	Shipping Weight	Price Each
57 NP 10529	8	450	3/4 x 1 1/8 x 2 1/2	8 oz.	41c
57 NP 10574	8	450	1 x 1 1/4 x 2 3/4	12 oz.	44c
57 NP 10578	8-8	450	1 1/2 x 1 1/2 x 3 1/2	1 lb.	64c

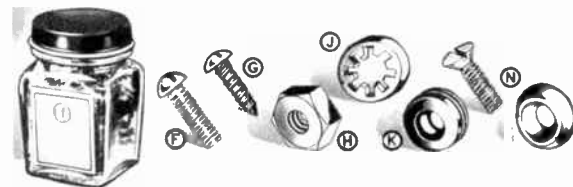


## Economy Tubular Electrolytics

High quality . . . low priced. Hermetically sealed and scientifically vented. Etched foil construction. Shipping weight, 4 ounces.

Catalog Number	Working Voltage	Capacity Mfd.	Price Each
57 NP 10631	25	10	19c
57 NP 10632	25	25	26c
57 NP 10626	150	8	24c
57 NP 10627	150	12	25c
57 NP 10628	150	16	29c
57 NP 10629	150	20	31c
57 NP 10630	150	40	35c
57 NP 10610	450	4	29c
57 NP 10611	450	8	31c
57 NP 10613	450	16	47c
57 NP 10633	450	8-8	53c

We regret that we cannot guarantee prices in this catalog for any specific length of time. See notice on Page 2 for details.

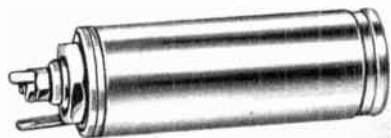


## Radio Hardware in Glass Jars and Envelopes

A convenient way to keep small radio hardware in order. Jars have screw tops. Shipping wt. of jars, each, 1 lb.; of envelopes, each, 4 oz.

Size, Inches	Catalog Number	Price Per Jar	Catalog Number	Price Per Envelope
<b>(F) Round Head N. P. Machine Screws</b>				
Jars Contain 70 to 100 pieces; Envelopes 18 to 25 pieces.				
4-36x 1/2	57 NP 19985	29c	57 NP 13200	9c
4-36x 3/4	57 NP 19986	29c	57 NP 13201	9c
6-32x 1/4	57 NP 19985	29c	57 NP 13202	9c
6-32x 1/2	57 NP 19986	29c	57 NP 13203	9c
6-32x 3/4	57 NP 19987	29c	57 NP 13204	9c
<b>(G) Self Tapping Screws</b>				
Jars Contain 40 to 50 pieces; Envelopes 10 to 12 pieces.				
No. 6x 1/2	57 NP 19987	29c	57 NP 13205	9c
No. 6x 3/4	57 NP 19988	29c	57 NP 13206	9c
No. 7x 1/2	57 NP 19989	29c	57 NP 13207	9c
<b>(H) N. P. Hex Nuts</b>				
Jars Contain 50 to 100 Pieces; Envelopes 20 to 25 Pieces.				
4-36x 1/2	57 NP 19990	29c	57 NP 13208	9c
6-32x 1/4	57 NP 19963	29c	57 NP 13209	9c
8-32x 3/8	57 NP 19964	29c	57 NP 13210	9c
<b>(J) Shakeproof Washers</b>				
Jar contains 100 pieces; Envelope 25 pieces.				
6-32	57 NP 19966	29c	57 NP 13211	9c
<b>(K) Rubber Grommets</b>				
Jars contain 20 to 25 pieces; Envelopes 6 pieces.				
1/2 x 1/8 hole	57 NP 19976	29c	57 NP 13212	9c
1/2 x 1/4 hole	57 NP 19977	29c	57 NP 13213	9c
<b>Flat Tinned Terminal Lugs (Not Shown)</b>				
Jars contain 75 to 100 pieces; Envelopes 20 to 25 pieces.				
3/4 x No. 10	57 NP 19994	29c	57 NP 13214	9c
1 x No. 8	57 NP 19980	29c	57 NP 13215	9c
<b>Lock Washers (Not Shown)</b>				
Jars contain 125 pieces; Envelopes 30 pieces.				
6-32	57 NP 19997	29c	57 NP 13216	9c
<b>(N) Rack Screws and Washers</b>				
Jars contain 20 screws, 20 washers; Envelopes 6 of each.				
10-32x 1/2	57 NP 19983	29c	57 NP 13217	9c

# Economy Priced



## Hams! Here's an Opportunity to Get a Better Filter for Less Money

An extremely fortunate buy enables us to offer you genuine Aluminum Cased Oil Capacitors for a 6 mike 1000 working-volt filter—for less than \$3. Think of it! By no parallel arrangement can you obtain equal filter capacity for this voltage for so little the money. Furthermore, you wouldn't get comparable results or as long life. Capacitors such as these are extremely difficult to get because of the scarcity of aluminum. Since our supply is limited we suggest you send your order without delay.

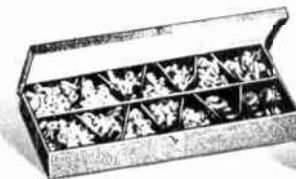
57 NP 10990—Four 1.5 Mfd. 1000 volt D.C. Oil filled capacitors. Shipping weight, 2 pounds..... **\$2.98**  
Two for (Shipping weight, 1 pound 12 ounces)..... **\$1.59**  
Each (Shipping weight, 1 pound)..... **.85**

## Wax Impregnated Paper Tubulars

Non-inductively wound, specially sealed and impregnated. Wire leads. High melting point wax ends. Average shipping weight, 4 ounces.

Catalog Number	Capacity Mfd.	Price Each
<b>400 Volts D.C.</b>		
57 NP 10500	.01	6c
57 NP 10501	.02	6c
57 NP 10502	.03	6c
57 NP 10503	.04	6c
57 NP 10504	.05	6c
57 NP 10505	.06	6c
57 NP 10506	.1	8c
57 NP 10507	.25	10c
57 NP 10508	.5	14c
57 NP 10509	1.	20c

Catalog Number	Cap. Mfd.	Each
<b>600 Volts D.C.</b>		
57 NP 10510	.001	7c
57 NP 10511	.002	7c
57 NP 10512	.003	7c
57 NP 10513	.004	7c
57 NP 10514	.005	7c
57 NP 10515	.006	7c
57 NP 10516	.01	7c
57 NP 10517	.02	7c
57 NP 10518	.03	9c
57 NP 10519	.04	9c
57 NP 10520	.05	9c
57 NP 10496	.06	9c
57 NP 10498	.1	10c
57 NP 10497	.25	14c
57 NP 10498	.5	21c



## Radio Hardware Assortment

Packed in an indestructible metal utility case with compartments. 25 Assorted Parker-Kalon self-tapping screws. 20 assorted rubber grommets. 25 assorted Knob set screws. 100 assorted lengths 1/2 machine screws. 50 assorted lengths 3/4 machine screws. 25 assorted lengths 1 1/2 machine screws. 75 assorted lugs. 100 1/2 nuts. 50 3/4 nuts. 25 1 1/2 nuts. 100 assorted 1/2, 3/4, 1 1/2 shakeproof and plain washers. 100 Assorted Rivets. 100 Assorted Eyelets. 30 Assorted fiber washers. 25 Spade bolts. Shipping weight, 2 lbs.  
57 NP 19767..... **\$2.03**

## ICA Master Assortment

Assortment packed in substantial metal box similar to above. Includes the following items:  
**Asstd. round head machine screws:**  
100 assorted lengths—1/8  
75 assorted lengths—1/4  
60 assorted lengths—3/8  
30 assorted lengths—1/2  
**Asstd. Flat head machine screws:**  
50 assorted lengths—1/8  
40 assorted lengths—1/4  
25 assorted lengths—3/8  
75 assorted Nos. 4-5-6 wood screws.  
75 assorted Parker-Kalon Self-tapping screws.  
100—1/8 nuts  
150—1/4 nuts  
150—3/8 nuts  
100—1/2 nuts  
Shipping weight, 3 lbs.  
57 NP 13235..... **\$2.65**

## 1000-Piece Assortment

Radio hardware used by dealers, servicemen, amateurs, experimenters, etc. Contains 1000 pieces of assorted machine screws—wood screws—nuts—bolts—rivets—eyelets—lugs—lockwashers—fiber washers—metal washers—bakelite washers—rubber grommets, etc. Shpg. wt., 1 lb. 10 oz.  
57 NP 19709..... **\$1.35**

## Threaded Brass Bushings

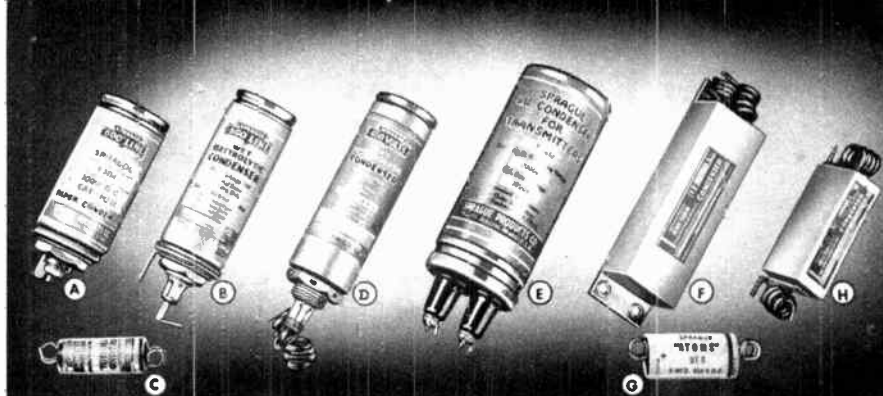
Ideal for raising sub-panels, chassis, and condensers.  
57 NP 17811—16 assorted lengths from 1/4 inch to 3/4 inch. Threaded for 1/4 screws.  
Shipping wt., 4 oz..... **56c**  
57 NP 17812—As above except threaded for 3/8 screws.  
16 for..... **56c**

**Angle Brackets**  
A handy assortment of 30 popular sizes. Nickel plated. Shipping weight, 8 ounces.  
57 NP 17813  
Per box of 30..... **35c**

**Rubber Grommets**  
Twenty-eight assorted sizes. Shpg. wt., 8 oz.  
57 NP 17814—Per box... **35c**

**Fiber Washers**  
One hundred assorted sizes of both plain and shouldered styles. Shpg. wt., 8 oz.  
57 NP 17815—Per box... **35c**

**Set Screws**  
A handy assortment of 25 in all popular sizes. Used on knobs and shafts. Shpg. wt., 6 oz.  
57 NP 17816—Per box... **50c**



# Sprague "600" Line Condensers

## Wet Electrolytics

The superior electrical and mechanical characteristics of these fine Condensers are universally recognized among radio servicemen and amateurs. There is no better to be had. Plated cans prevent corrosion and deterioration. Hidden vent. Self healing, long life. D.C. peak voltage, 500 volts Shipping weight, 12 ounces.

Catalog Number	Capacity Mfd.	Price Each
57 NP 13000	8	56c
57 NP 13001	12	67c
57 NP 13002	16	79c
57 NP 13003	25	97c

## Inverted Screw Can Dry Electrolytics

A popular style for replacement uses. Packed with hardware for insulating can from mounting. Polarity plainly marked. Shipping weight, 12 ounces.

Catalog Number	Capacity Mfd.	D.C. Wkg. Volts	Price Each
57 NP 13005	5	450	62c
57 NP 13006	12	450	82c
57 NP 13007	8-8	450	94c

Note: 57 NP 13007 has four leads.

## Oil Filled Condensers

Type PC. Inverted screw can. Round. Specially designed for P.A., transmitting, and television uses. Shipping weight, 1 pound.

Catalog Number	Capacity Mfd.	D.C. Wkg. Volts	Price Each
57 NP 13008	4	600	\$2.20
57 NP 13009	2	1000	1.91

## Upright Round Can Type

Long a favorite with amateurs and broadcasting stations. Impregnated and filled with Spracol, among the finest of oil type dielectrics. Shipping weight, 2 pounds.

Catalog Number	Capacity Mfd.	D.C. Wkg. Volts	Price Each
57 NP 13010	4	1070	\$2.80
57 NP 13011	2	2000	2.94

## Dry Electrolytics in Tab Type Fiberboard Cases

These types afford the utmost in reliability and convenience of installation. Small size. Conservatively rated at 525 surge volts but will stand surges of up to 560 volts and come back for more! Rated Working Voltage is 450 Volts. Dual Units have 4 leads. Shipping wt., 8 oz.

Catalog Number	Cap. Mfd.	Size Inches	Price Each
57 NP 13012	8	3/4 x 1 1/2 x 2 1/2	56c
57 NP 13013	8-8	1 1/4 x 1 1/2 x 2 1/2	88c

Catalog Number	Cap. Mfd.	Price Each
57 NP 13014	8	56c
57 NP 13015	8-8	88c

## High Quality Sears Powermaster Condensers

India ruby mica dielectric for high Q and long life. Molded in brown bakelite. Tinned brass wire leads. Standard RMA color coding. Shipping weight, each, 3 ounces.

Catalog Number	Capacity Mfd.	Price Each
57 NP 12450	.000105	6c
57 NP 12451	.00001	8c
57 NP 12452	.00002	8c
57 NP 12453	.000025	6c
57 NP 12454	.00003	6c
57 NP 12455	.00004	6c
57 NP 12456	.00005	6c
57 NP 12457	.00007	6c
57 NP 12458	.0001	6c
57 NP 12459	.00015	6c
57 NP 12460	.0002	6c
57 NP 12461	.00025	8c
57 NP 12462	.0003	8c
57 NP 12463	.0004	8c
57 NP 12464	.0005	8c
57 NP 12465	.0006	8c
57 NP 12466	.0007	8c
57 NP 12467	.0008	8c

Catalog Number	Capacity Mfd.	Price Each
57 NP 12468	.0009	8c
57 NP 12469	.001	10c
57 NP 12470	.0015	10c
57 NP 12471	.002	12c
57 NP 12472	.0025	12c
57 NP 12473	.003	12c

## 600 Volts D.C. Test 300 Volts D.C. Working

Catalog Number	Capacity Mfd.	Price Each
57 NP 12474	.004	12c
57 NP 12475	.005	15c
57 NP 12476	.006	15c
57 NP 12477	.007	15c
57 NP 12478	.008	15c
57 NP 12479	.009	15c
57 NP 12480	.01	15c

## Sprague "Atoms"

Extremely small tubular electrolytics. Provide the utmost quality and compactness—at the lowest possible price for nationally advertised merchandise. They have very low leakage, will withstand exceptionally high surges and are built for long life. Hermetically sealed. Shipping weight, each, 4 ounces.

Catalog Number	Working Voltage	Capacity Mfd.	Price Each
57 NP 13016	25	10	23c
57 NP 13017	25	25	29c
57 NP 13018	50	5	23c
57 NP 13019	50	10	26c
57 NP 13020	50	25	32c
57 NP 13021	150	4	23c
57 NP 13022	150	8	26c
57 NP 13023	150	12	29c
57 NP 13024	150	16	32c
57 NP 13025	150	20	35c
57 NP 13026	150	40	38c
57 NP 13027	250	4	26c
57 NP 13028	250	8	29c
57 NP 13029	250	12	38c
57 NP 13030	250	16	44c
57 NP 13031	450	4	32c
57 NP 13032	450	8	35c
57 NP 13033	450	12	44c
57 NP 13034	450	16	53c
57 NP 13035	450	20	69c

## Dual Atoms

Catalog Number	Working Voltage	Capacity Mfd.	Price Each
57 NP 13036	50	10-10	47c
57 NP 13037	200	12-12	66c
57 NP 13038	200	16-16	62c
57 NP 13039	200	8-16	56c
57 NP 13040	250	8-16	62c
57 NP 13041	450	8-8	62c
57 NP 13042	450	8-16	79c

## Cartridge Type Paper By-Pass

Test voltage 1200; Working Voltage 600. Shipping weight, 8 ounces.

Catalog Number	Capacity Mfd.	Price Each
57 NP 13049	.0001	9c
57 NP 13050	.00025	9c
57 NP 13051	.0004	9c
57 NP 13052	.0005	9c
57 NP 13053	.001	9c
57 NP 13054	.002	9c
57 NP 13055	.003	9c
57 NP 13056	.004	9c
57 NP 13057	.005	9c
57 NP 13058	.006	9c
57 NP 13059	.01	9c
57 NP 13060	.02	9c
57 NP 13061	.03	12c
57 NP 13062	.04	12c
57 NP 13063	.05	12c
57 NP 13064	.06	15c
57 NP 13065	.1	15c
57 NP 13066	.25	21c
57 NP 13067	.5	29c
57 NP 13068	1.	47c

Add condensers to your Easy Payment order. See Page 2 for complete information on this convenient way to buy.

## Dry Electrolytics

Dual tubular dry electrolytic capacitors. Common negative type. Mounting straps. Shipping weight, each, 3 ounces.

Catalog Number	Capacity Mfd.	Price Each
<b>450 Volts D.C.</b>		
57 NP 10633	8-8	49c
57 NP 10634	8-16	65c
<b>250 Volts D.C.</b>		
57 NP 10635	8-16	49c
57 NP 10636	16-16	54c
<b>150 Volts D.C.</b>		
57 NP 10637	8-8	40c
57 NP 10638	8-16	43c
57 NP 10639	20-20	49c
<b>50 Volts D.C.</b>		
57 NP 10640	5-5	29c
57 NP 10641	10-10	29c
<b>25 Volts D.C.</b>		
57 NP 10642	5-5	28c
57 NP 10643	10-10	31c

# Mueller Battery Clips

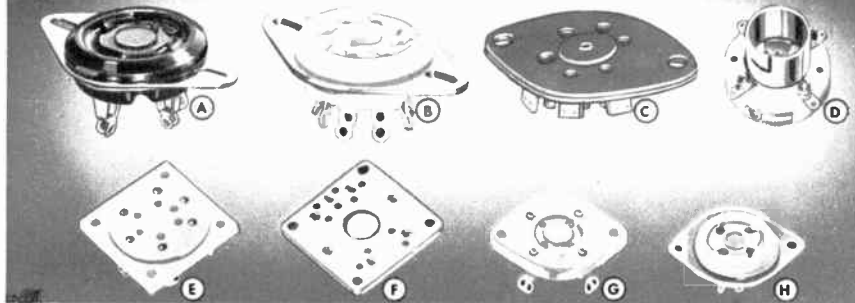
- (A) Type 60S.** Slim jaws. Fine meshing teeth. Round thumb grip. Barrel connection for banana plug. Has screw which eliminates soldering when wire connections are made. Non-corrosive finish. Length, 2 inches. 57 NP 12680—Each (Shpg. wt., 2 oz.)... **5c**  
10 for (Shipping weight, 4 ounces) ... **39c**
- (B) Type 60HS.** Insulated red or black handle. Similar to 57 NP 12680. **Stote color.** 57 NP 12681—Each (Shpg. wt.; 2 oz.)... **11c**  
10 for (Shipping weight, 6 ounces) ... **84c**
- (C) Type 85.** Has small elongated jaws for getting into tight places. Length, 2 3/4 inches. Non-corrosive finish. 57 NP 12682—Each (Shpg. wt., 2 oz.)... **6c**  
10 for (Shipping weight, 6 ounces) ... **44c**
- (D) Type 45.** "Pee-Wee" Clip. 1 1/2 in. long. Jaw spread 3/4 in. Steel, bright finish. Capacity 5 Amps. Mesh Teeth. 57 NP 12683—Each (Shpg. wt., 2 oz.)... **4c**  
10 for (Shipping weight, 6 ounces) ... **32c**
- Type 48B.** Meshing teeth type, larger than "Pee-Wee." Length, 2 in. Jaw spread 3/4 in. Steel, bright finish. Cap. 10 Amps. 57 NP 12685—Each (Shpg. wt., 3 oz.)... **4c**  
10 for (Shipping weight, 6 ounces) ... **34c**
- Type 27.** Length 2 1/2 in. Jaw Spread 3/4 in. Cap. 20 Amps. Similar to 57 NP 12683. 57 NP 12686—Each (Shpg. wt., 3 oz.)... **8c**  
10 for (Shipping weight, 8 ounces) ... **69c**
- (E) Type 24A.** Grip teeth type. Stands erect on battery post. Lead coated. Copper shunt protects spring. Length 2 1/4 inches. Jaw spread 1 inch. Capacity 25 Amps. 57 NP 12684—Each (Shpg. wt., 3 oz.)... **8c**  
10 for (Shipping weight, 8 ounces) ... **69c**
- Type 21A.** Heavy duty, lead plated. Steel. Grip teeth. Stands erect on battery post. Length 4 inches. Jaw spread 1 1/4 inches. Capacity 50 Amps. 57 NP 12693—Each (Shpg. wt., 4 oz.)... **13c**  
10 for (Shipping weight, 1 pound) ... **\$1.19**
- (F) Battery Clip Insulator.** A convenient protection against short circuits and electric shocks. Pair consists of 1 red and 1 black. Made of rubber. Shipping wts.: 1 pair, 4 oz.; 5 pairs, 6 oz.

For Clip	Catalog No.	Ea. Pair	5 Pairs
45	57 NP 12687	16c	\$0.86
24A	57 NP 12688	33c	1.79
48A	57 NP 12689	18c	.99
21A	57 NP 12690	66c	2.25
27	57 NP 12691	24c	.83
85	57 NP 12692	12c	.36

- (G) Screw Terminal Strips.** Bakelite 3/2 in. thick. Shipping wt., each, 3 oz. 57 NP 17393—2 terminals... **9c**  
57 NP 17394—3 terminals... **12c**  
57 NP 17395—4 terminals... **15c**  
57 NP 17396—5 terminals... **19c**  
57 NP 17397—6 terminals... **23c**
- (H) Bakelite Lug Strips.** 2, 3 or 4 terminals. Shipping weight, each, 3 ounces. 57 NP 17398—2 terminals... **3c**  
57 NP 17399—3 terminals... **3c**  
57 NP 17400—4 terminals... **4c**
- (J) National Power Tube Plate Cap.** Safety plate grip of Molded R-39. For 866 and other tubes using 3/4-in. caps. Conductor opening will receive spark plug cable. Shipping weight, 4 ounces. 57 NP 19253—Type SPG. Each... **21c**
- (K) Spring Clips.** Nickel plated brass. Shipping weight, of twelve, 4 ounces. 57 NP 17401—Single; 1 inch long... **10c**  
Per Dozen... **26c**
- (L) Grid Caps.** Insulated type. Made of spring bronze with rubber cover. Supplied with 12-inch wire. Shipping weight, 3 oz. 57 NP 17414—For 866 type tubes. Ea. **9c**  
57 NP 17839—For glass receiving type tubes. Each... **5c**
- (M) Grid Caps.** Cadmium plated. For glass and metal receiving tubes. Shipping weight, each, 3 ounces. 57 NP 17412—Style (M) for glass tubes. Each... **1c**  
57 NP 17413—Style (M) for metal tubes. Each... **1c**  
57 NP 17840—Style (N) for glass tubes. Each... **1c**

- (P) Crowe Anodized Dial Plates.** Legible black figures on a silvery-white color background. 2 1/4 in. high x 2 1/2 in. wide. Tone 0-10 Gain 0-10 Master Gain 0-10 Record 0-10 Microphone 0-10 Microphone No. 1 0-10 Microphone No. 2 0-10 Gain 5-0-5 Radio-Microphone 5-0-5 Record-Microphone 5-0-5 Volume 0-10 Fader 5-0-5 Bass 5-0-5 Treble 5-0-5 57 NP 19702—Stote marking. Shipping weight, 3 ounces. Each... **21c**
- (Q) Crowe Etched Aluminum Switch Plates.** "Off-on" switch plate. Etched aluminum, black 1 1/2 x 1 1/4 inches. 57 NP 19700—Shipping weight, 2 oz... **7c**
- (R) "On-off" switch plate.** Etched aluminum, black. 1 1/2 x 1 inch. 57 NP 19701—Shipping weight, 2 oz... **7c**

# Steatite and Bakelite Sockets



## Amphenol Tube Sockets

- (A) Bakelite.** Furnished with universal adapter plate. Shipping weight, each, 4 oz. 57 NP 19772—4-prong... **7c**  
57 NP 19773—5-prong... **7c**  
57 NP 19774—6-prong... **7c**  
57 NP 19775—7-prong (small)... **7c**  
57 NP 19776—7-prong (large)... **7c**  
57 NP 19777—8-prong (octal)... **9c**  
57 NP 19790—8-prong (loktal)... **11c**  
57 NP 19791—5-prong Hytron Miniature... **10c**
- (B) Steatite.** Shipping weight, each, 4 ounces. 57 NP 19778—4-prong... **24c**  
57 NP 19779—5-prong... **24c**  
57 NP 19780—6-prong... **24c**  
57 NP 19781—7-prong (small)... **24c**  
57 NP 19782—7-prong (large)... **29c**  
57 NP 19783—8-prong (octal)... **24c**

## Laminated Bakelite Sockets

- (C) High grade sub panel wafer type socket** for new or replacement uses. Full floating contacts. Mounting centers 1 1/2 inches. Shipping weight, each, 2 oz.; for 10, 6 ounces.

Prongs	Catalog Number	Price Each	Ten For
4	57 NP 12920	5c	45c
5	57 NP 12930	5c	45c
6	57 NP 12931	5c	45c
7-s	57 NP 12932	5c	45c
8	57 NP 12933	5c	45c

## Johnson No. 210 Socket

- (D) For use with type 10, 800, RK20, 825, 866 and similar tubes.** UX 4-prong base. Nickel brass shell. Heavy wiping contacts. Porcelain base. 57 NP 10032—Shipping weight, 8 oz... **50c**  
No. 211 Standard 50-watt UX Socket. Otherwise same as No. 210. 57 NP 10033—Shipping weight, 1 lb... **73c**



## Tube Shields

- (A) For ST12 bulbs.** Consists of two snug-fitting half shields with cap and base. Clamp ring furnished. Shipping weight, each, 4 ounces. 57 NP 17875—For short tubes with grid caps, such as 1A6, 2A7, 38, 75, 89... **6c**  
57 NP 17876—For short tubes, without grid caps, as 6Y5, 12A5, 27, 30, 31, etc... **6c**  
57 NP 17877—For long tubes with grid caps, as 6C6, 6D6, 57, 58, etc... **6c**  
57 NP 17878—For ST14 Bulbs. ST14 dome-shaped tubes such as 24A, 32, 35, 2A5, 01A, 26, 45, etc... **6c**

## 3-Piece Shield

- (B) Ventilated 2-piece body for ST12 bulbs,** such as 55, 57, 2A7, etc. Made of aluminum. Shell, 1 1/4 in. diameter, 3 1/2 in. high, 4 1/2 in. overall. Cap slotted for grid lead. Shipping weight, each, 4 ounces. 57 NP 17879—1 1/2-inch Mtg. center... **18c**

## GT Tube Shields

- (C) 57 NP 17881—One-piece metal without cap.** Shipping weight, each, 4 ounces... **5c**  
**(D) 57 NP 17882—With grid lead type cap and ground clip.** Shipping weight, each, 4 ounces... **5c**

## Grid Cap Shield

- (E) For metal tubes.** Fits firmly over grid cap of tube affording complete shielding. Slotted to permit passage of grid wire. 57 NP 12936—Shipping weight, 2 ounces... **9c**

## National Sockets

- (E) Isolantite coil socket.** Fits National 6-prong coils. Type XR-6. 57 NP 19175—Shipping weight, 8 oz... **49c**
- (F) National Pentode Acorn Tube Socket.** Copper base, built-in by-pass condensers for stable high frequency operation. 57 NP 19177—Type XMA. Shipping weight, 8 ounces... **\$1.32**
- (G) National Isolantite Type XC receiving type socket.** Shipping weight, each, 4 oz. 57 NP 19178—4-prong... **39c**  
57 NP 19179—5-prong... **39c**  
57 NP 19180—6-prong... **39c**  
57 NP 19181—7-prong, small... **39c**  
57 NP 19182—7-prong, large... **39c**  
57 NP 19183—8-prong, octal... **39c**

- Insulux Water Sockets.** Not Illus. Similar to (G). For ultra high frequencies. Circular groove. Recessed contact rivets. For base board or sub-panel mounting. Shpg. wt., ea., 4 oz. 57 NP 17869—No. 2600—4-prong... **25c**  
57 NP 17870—No. 2601—5-prong... **28c**  
57 NP 17871—No. 2602—6-prong... **28c**  
57 NP 17872—No. 2603—7-prong, large... **28c**  
57 NP 17873—No. 2604—7-prong, small... **28c**  
57 NP 17874—No. 2605—8-prong, octal... **28c**

- (H) National CIR Isolantite receiving type sockets.** Contacts grip tube prong for its full length. Sockets for glass tubes have stand-off insulation that allow center mounting for bread board layouts. 8-prong sockets have metal stand-offs. Shipping weight, each, 8 ounces. 57 NP 19184—4-prong... **27c**  
57 NP 19185—5-prong... **27c**  
57 NP 19186—6-prong... **27c**  
57 NP 19187—7-prong, small... **27c**  
57 NP 19188—7-prong, large... **27c**  
57 NP 19189—8-prong, octal... **27c**



## Crowe Aluminum Title Plates

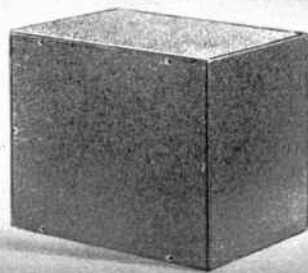
- Anodized aluminum finish, silvery-white color background, with black figures. Size 3/4 inch x 1 1/4 inches, furnished with self-tapping screws. The use of these attractive plates will give your rig that professional touch. See list below for titles carried in stock. **Stote marking wanted.** Shipping weight, each, 2 ounces. 57 NP 18100—Each... **9c**

- AC Input
- AC Volts
- Amplifier
- Antenna
- Beat Osc.
- Buffer
- 1st Buf. Dblr. Grid
- 2nd Buf. Dblr. Grid
- 3rd Buf. Dblr. Grid
- 1st Buf. Dblr. Plate
- 2nd Buf. Dblr. Plate
- 3rd Buf. Dblr. Plate
- 1st Buffer Grid
- 2nd Buffer Grid
- 3rd Buffer Grid
- 1st Buffer Plate
- 2nd Buffer Plate
- 3rd Buffer Plate
- Class A Modulator
- Class B Modulator
- Crystal Osc. Grid
- Crystal Osc. Plate
- D.C. Voltage
- Doubler
- Filament Voltage
- Gain Control
- Grid Current
- Ground
- Input
- Key
- Microphone
- Mike Current
- Modulator Grid
- Modulator Plate
- Monitor
- Neut. Condenser
- Off-On
- Oscillator
- Output
- Plate 1
- Plate 2
- Plate Voltage
- Phone-CW
- Power Amp. Grid
- Power Amp. Plate
- Rectifier
- Screen Current
- Selector
- Speaker
- Speech Amp.
- Sp. Amp. Dvr. Plate
- 125 Ohm Output
- 500 Ohm Input
- 500 Ohm Output

See notice regarding prices on Page 2



# Every Good Hookup Deserves a Cabinet



## De Luxe Hinged Steel Cabinets

Sides and backs have ventilating louvers. Backs have opening for cable connections, etc. Top panel hangs on full sized piano type hinge. Bottoms have 4 embossed feet. Finished in Marine Gray ripple enamel.

Catalog Number	Size, inches	Shpg. Weight	Price Each
57NP17888	8x10x8	8 lbs.	\$3.38
57NP17889	8x12x8	9 lbs.	3.38
57NP17890	8x14x8	10 lbs.	4.12
57NP17891	12x20x12	13 lbs.	6.17

## Economical Metal Cabinets

Black ripple finish. Front and back removable. Can be fastened to cabinet by self tapping screws.

Catalog Number	Size, inches	Shpg. Wt., Lbs.	Price Each
57 NP 10303	4x 2x 4	3	\$ .59
57 NP 10304	4x 3x 3	4	.63
57 NP 10305	6x 6x 6	5	.73
57 NP 10306	9x 5x 6	6	1.15
57 NP 10307	10x 8x 7	8	1.47
57 NP 17897	10x 8x 10	9	1.82
57 NP 17898	12x 11x 8	11	1.94

## New ICA Amplifier Chassis

"Air gate" ventilators are chrome plated. Red striped chrome finished molding, chrome plated handles. Gray ripple enamel finish. All sizes 9 inches high, chassis pans 3 inches deep.

Catalog Number	Size, inches	Shipping Wt., Lbs.	Price, Each
57NP17883	5 1/2 x 10	9	\$2.91
57NP17884	8 x 12	10	3.79
57NP17885	8 x 17	11	3.79
57NP17886	10 x 14	12	4.26
57NP17887	10 x 17	13	4.41

## Bud De Luxe Cabinets

Removable panels fit flush with rounded corners. Rear is stopped 2 inches above bottom to allow for leads. Cabinet has hinged lids. Chrome plated strip 1/2 inch wide at each side of panel. Attractive looking gray crackle finish. Depth, 8 in.

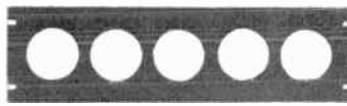
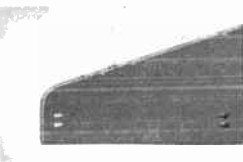
- 57 NP 17910—Panel size, 8x10 inches. Shpg. wt., 7 lbs. Each... **\$3.09**
- 57 NP 17911—Panel size, 8x12 inches. Shipping weight, 8 pounds. Each... **\$3.41**
- 57 NP 17912—Panel size, 8x14 inches. Shipping weight, 10 pounds. Each... **\$3.73**



## ICA DeLuxe Meter Case

Designed to harmonize with modern radio enclosures. Finished in Marine Gray ripple enamel. Trimmed with attractive red striped bright metal band. Rounded top. Also suitable for midgap speakers. Size, 4 1/2 x 4 1/2 x 4 1/2 inches. Available with opening for either small or large meters. A good looking and durable case. Shipping weight, 2 pounds.

- 57 NP 12969—With opening 2 3/8 inches for small meters... **\$1.03**
- 57 NP 12970—With opening 2 1/2 inches for large meters... **\$1.03**



## Chassis Brackets

Drilled to fit Par-Metal chassis base. Panels used must be at least 7 inches high. Made of 1/4-inch steel. Durably finished in Black baked-on ripple enamel. Available in three sizes.

- 57 NP 19937—For 8-inch base. Shipping wt., 2 lbs. Per Pair... **\$7c**
- 57 NP 19938—For 11-inch base. Shipping wt., 3 lbs. Per Pair... **\$8c**
- 57 NP 19939—For 13-inch base. Shpg. wt., 3 lbs. Per Pair... **\$1.02**

## Steel Meter Panels

At the low price of these ready drilled meter panels it hardly pays to put yourself to the trouble of drilling your own. These attractive professional type panels are available with either three or five holes and for both two inch and three inch meters. Substantially made of 1/4-inch steel. 5 1/4 inches high. Black or Gray ripple finish. These are quality panels at a price you can afford. Finished to match either steel or masonite rack panels. When ordering, state color of panel wanted.

Catalog Number	No. of Holes	Meter Size	Shpg. Wt.	Price Each
57 NP 19940	3	2 in.	6 lbs.	\$1.05
57 NP 19941	5	2 in.	6 lbs.	1.53
57 NP 19942	3	3 in.	6 lbs.	1.05
57 NP 19943	5	3 in.	6 lbs.	1.53



## Heavy Duty Chassis Bases

Size, inches	Shipping Weight	Black Wrinkle	
		Catalog No.	Each
8x17x2	6 lbs.	57 NP 19900	\$1.59
8x17x3	6 lbs.	57 NP 19901	1.76
11x17x2	8 lbs.	57 NP 19902	1.76
11x17x3	9 lbs.	57 NP 19903	1.91
13x17x3	10 lbs.	57 NP 19904	2.26
13x17x4	11 lbs.	57 NP 19905	2.50

## Standard Weight Chassis Bases

Size, inches	Shipping Weight	Cadmium-Plated		Black Ripple	
		Catalog No.	Each	Catalog No.	Each
7x 9x2	3 lbs.	57 NP 19717	\$0.59	57 NP 19733	\$0.59
7x11x2	3 lbs.	57 NP 19718	.66	57 NP 19734	.66
7x12x3	4 lbs.	57 NP 19719	.70	57 NP 19735	.70
7x17x3	5 lbs.	57 NP 19721	.86	57 NP 19737	.86
8x17x2	6 lbs.	57 NP 19723	.94	57 NP 19739	.94
8x17x3	6 lbs.	57 NP 19724	1.15	57 NP 19740	1.15
10x14x3	5 lbs.	57 NP 19727	1.01	57 NP 19743	1.01
10x17x3	5 lbs.	57 NP 19728	1.05	57 NP 19744	1.05
11x17x2	4 lbs.	57 NP 19729	1.41	57 NP 19745	1.41
11x17x3	5 lbs.	57 NP 19730	1.58	57 NP 19746	1.58
13x17x3	6 lbs.	57 NP 19732	1.65	57 NP 19748	1.65

For complete information about prices and possible price changes affecting merchandise shown in this catalog, be sure to read the special notice which you will find on the inside front cover.

## Desk Panel Racks

Use with chassis up to 17x13-in. in size. Made of 1/8-in. cold rolled steel with welded joints. Panel mounting screws and washers furnished. Black ripple finish. Standard rack panels listed below.

- 57 NP019909—Single Unit. With door on top only. Size, 8 3/4 x 19 x 13 1/2 inches deep. Panel space, 8 3/4 x 19 inches. Shipping weight, 22 pounds... **\$5.19**
- 57 NP019910—As above. Size, 12 1/4 x 19 x 13 1/2 inches deep. Panel space, 12 1/4 x 19 inches. Shpg. wt., 27 lbs... **\$6.45**
- 57 NP019911—Double Unit with door on rear panel only. Size, 26 1/4 x 19 x 13 1/2 inches deep. Panel space, 26 1/4 x 19 inches. Shipping weight, 36 pounds... **\$10.50**
- 57 NPM 19913—Quadruple Unit. With door on rear panel only. Size, 35 x 19 x 13 1/2 inches deep. Panel space, 35 x 19 inches. Shipping weight, 55 pounds. Not Mailable... **\$12.30**



## Bakelite and Steel Panels

Bakelite panels are black, mirror finish. Laminated. Tensile strength 8,000 pounds per square inch. Thickness 1/4 inch. Steel panels are 1/4 inch thick, finished in black ripple enamel. These sturdy panels are available in standard sizes as listed below. Why not add the sizes you need to your

## Slotted Standard Rack Panels

Uniformly slotted steel or Masonite panels to fit all relay racks listed on this page. Standard 19-inch lengths. Steel panels are 1/4-inch thick, Masonite is 3/8-inch thick. Steel panels either Black or Gray ripple finish. Be sure to state color wanted, when ordering. Masonite Black only. Masonite is non-magnetic, sturdy and tough. Can be easily worked with wood-working tools. Available in six different sizes as listed below. These are top quality rack panels. Both types, steel and masonite offer strong and rigid support. Slotted to fit amateur standard relay racks. Finish is attractive and extremely durable.

Easy Payment order... buy everything you need at one time. Your order need total only \$10 or more to take advantage of Sears convenient Easy Payment Plan. See Page 2 for complete information.

Size, inches	Bakelite			Black Ripple Steel		
	Catalog No.	Shpg. wt.	Price Ea.	Catalog No.	Shpg. wt.	Price Ea.
7x10	57 NP 12971	2 lbs.	\$0.95	57 NP 12977	4 lbs.	\$0.37
7x12	57 NP 12972	2 lbs.	1.15	57 NP 12978	5 lbs.	.43
7x14	57 NP 12973	3 lbs.	1.32	57 NP 12979	6 lbs.	.60
7x18	57 NP 12974	3 lbs.	1.70	57 NP 12980	7 lbs.	.69
7x21	57 NP 12975	4 lbs.	1.98	.....	.....	.....
7x24	57 NP 12976	5 lbs.	2.29	.....	.....	.....

Size, inches	Steel (State Color)			Masonite (Black Ripple Only)		
	Catalog No.	Shpg. Wt.	Price Ea.	Catalog No.	Shpg. Wt.	Price Ea.
3 1/2 x 19	57 NP 19925	5 lbs.	\$0.54	57 NP 17901	1 lb.	\$0.47
5 1/4 x 19	57 NP 19926	7 lbs.	.69	57 NP 17902	1 lb.	.62
7 x 19	57 NP 19927	8 lbs.	.76	57 NP 17903	1 lb.	.68
8 3/4 x 10	57 NP 19928	0 lbs.	.90	57 NP 17904	2 lbs.	.82
10 1/2 x 19	57 NP 19929	10 lbs.	1.11	57 NP 17905	2 lbs.	.94
12 1/4 x 19	57 NP 19930	12 lbs.	1.32	57 NP 17906	3 lbs.	1.06

# Radio Shop Needs

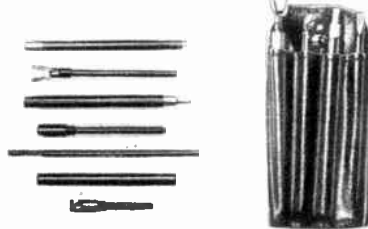
## Serviceman's Neutralizing and Aligning Tool Kit

Includes every combination of tools which a serviceman must have to make adjustments on modern radio receivers. Units telescope into each other, forming four separate tools when assembled. Comes in an attractive black artificial leather vest pocket carrying case. Shipping weight, 1 pound.

57 NP 17846—Complete with Case. . . . . \$2.79

DeLuxe Kit contains all items in above kit plus flexible screwdriver and "magic" aligning tool. Shipping weight, 1 pound.

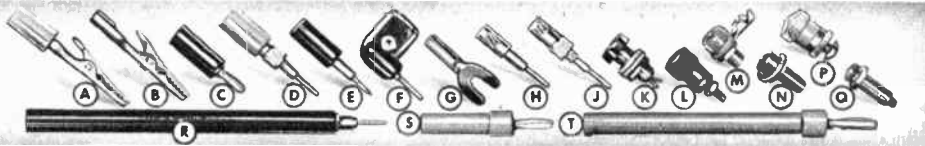
57 NP 17847—DeLuxe Kit. . . . . \$3.38  
Complete with Case.



## All-Purpose Test Lead Kit

Insulated fittings provided for every type of testing. Equipped with one pair of test leads which have 60-inch red and black kinkless live rubber wire. One end has insulated phone tips and other end insulated removable banana-type plugs. Extra fittings are plug-on type. Includes: 1 pair test leads, 1 pair insulated alligator clips—red and black, 1 pair insulated spade plugs—red and black, 1 pair insulated needle points—red and black. Artificial leather case.

57 NP 17848—Shipping weight, 1 pound. . . . . \$1.47



NOTE: Shipping weight of following items is 2 ounces unless otherwise specified.

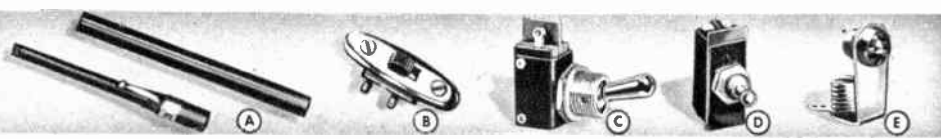
- A Insulated alligator clip. Red or black. State color. 57 NP 17374—Each. . . . . 8c
- B Noninsulated alligator clip. 57 NP 17375—Length 2 inches. Each. . . . . 4c
- C Insulated Solderless Banana Plug. Red or black. State color. 57 NP 17376—Each. . . . . 9c
- D Insulated solderless plug. Fits phone tip jack. 57 NP 17377—Red or black. State color. . . . . 8c
- E Insulated Needle Point with banana plug receptacle. 57 NP 17383—Red or black. State color. . . . . 8c
- F Molded finger grip tip. Fits phone tip jack. 57 NP 17378—Red or black. State color. . . . . 24c
- G Spade Lug. Shpg. wt. for 10, 4 oz. 57 NP 17379—10 for. . . . . 24c
- H Solderless plug with Slender Sleeve. 57 NP 17380—Each. . . . . 5c
- J Solderless Plug to fit phone tip jack. 57 NP 17381—Each. . . . . 6c

- K Insulated Tip Jack. Fits plugs D, E, F, H, J. 57 NP 17382—Red or black. State color. . . . . 8c
- L Bakelite Binding Post with Jack, for banana plug. Takes plugs C, S and T. 57 NP 17384—Red or black. State color. . . . . 11c
- M Insulated Banana-type Jack with lug. 57 NP 17385—Red or black. State color. . . . . 8c
- N Bakelite Banana plug jack for test equipment. 57 NP 17386—Red or Black. State color. . . . . 8c
- P Insulated Binding Post. Bakelite. 57 NP 17387—Red or Black. State color. . . . . 8c
- Q Nickel plated phone tip Jack. 57 NP 17388—Each. . . . . 5c
- R Insulated Test Prods. 7 inches long. Red or black. Shpg. wt., each, 4 oz. State color. 57 NP 17389—For Phone Needle Tips. . . . . 18c  
57 NP 17390—With standard phone tip. . . . . 24c
- S Insulated Test prod. Solderless type split banana plug. 2½ in. long. Red or black. 57 NP 17391—State color. Each. . . . . 18c
- T Insulated Test prod. Same as (S) except 4 in. long. Red or black. State color. 57 NP 17392—Shipping weight, 4 oz. . . . . 24c



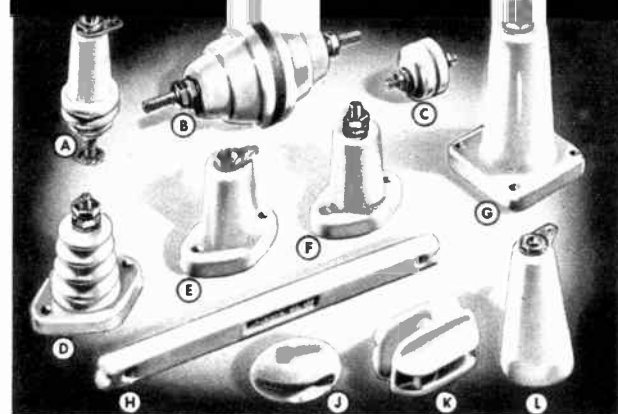
- A ICA All Purpose Test Leads. Has Interchangeable Tips. Made of sturdy Fenoline Tubing. Slim handles, 6 in. long. One end equipped with Sharp Point Phone Tips—which fit all standard jacks. Other end equipped with Split Banana plugs—allowing for interchange of spade lugs, phone tips, or alligator clips, which are supplied. Shipping weight, 8 ounces. 57 NP 17864—Complete Kit. . . . . 98c
- B Fused Test Lead Set. Handles so constructed that standard radio fuse can be inserted in barrel of each lead for protection of meters against burnouts. Otherwise same as above. Instrument fuses, and 3 sets of Tips supplied. 57 NP 17865—Shpg. wt., 8 oz. Each. . . . . \$1.47

- B Standard Test Leads. Slender handles insulated for 5000 volts. Flexible rubber covered kinkless wire 50 inches long. Needle points color coded. Shipping weight, 8 ounces. 57 NP 17403—With phone tips. . . . . 49c  
57 NP 17404—With spade terminals. . . . . 49c  
57 NP 17405—With alligator clips. . . . . 49c
- C DeLuxe Test Prod Set. With finger grip molded tips. Red and black fenoline handles 5 inches long. Rubber covered flexible kinkless wire 65 inches long. Sharp pointed penetrating tips which screw into handles. All connections are properly soldered to provide low resistance connections. Color coded. 57 NP 17406—Shipping wt., 8 oz. . . . . 79c



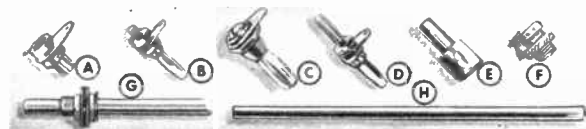
- A ICA 4-in-1 Neutralizing Tool. Fenoline barrel with pocket clip has ¾ in. nut wrench on one end. Fenoline insert has ¼ in. nut wrench and key seat on one end and metal tipped neutralizing screw driver on other end. 57 NP 17852—Shipping weight, 4 ounces. Ea. . . . . 36c
- B Sliding Lever Switch. Has many applications in radio apparatus. More up-to-date than a toggle switch. Size 1½ x ½ x ¼ inch. Shipping weight, each, 4 ounces. 57 NP 17849—Single Pole Single Throw. . . . . 20c  
57 NP 17850—Single Pole Double Throw. . . . . 23c  
57 NP 17851—Double Pole Double Throw. . . . . 26c
- C Bat Handle Switch. A most convenient style. Long handle makes manipulation easier. Rated at 3 Amperes at 125 volts or 1 Ampere at 250 volts.

- Underwriters Approved. Shpg. wt., ea., 4 oz. 57 NP 12943—Single Pole Single Throw. . . . . 26c  
57 NP 12944—Single Pole Double Throw. . . . . 35c  
57 NP 12945—Double Pole Single Throw. . . . . 47c  
57 NP 12946—Double Pole Double Throw. . . . . 59c
- D Toggle Switches—Rated 3 amps. at 125 volts. Nickel plated. Shipping wt., ea., 4 oz. 57 NP 17369—¾-inch Shank S.P.S.T. . . . . 18c  
57 NP 17370—¾-inch Shank S.P.D.T. . . . . 22c  
57 NP 17371—¾-inch Shank S.P.S.T. . . . . 20c  
57 NP 17372—¾-inch Shank S.P.D.T. . . . . 37c  
57 NP 17373—¾-inch Shank D.P.D.T. . . . . 39c
- E Panel Light. Red or green jewel. State color wanted. (Bulb not included). Shpg. wt., 6 oz. 57 NP 18895—With bayonet socket. . . . . 18c  
57 NP 18896—With screw socket. . . . . 13c



## Johnson Glazed Porcelain Insulators

- A Type 42J—Insulator with Jack. ¾ in. top ¾ in. bottom. 57 NP 10000—Shipping weight, 3 ounces. . . . . 16c
- A Type 40J—Same as Above. 1¼ in. top ½ in. bottom. 57 NP 10001—Shipping weight, 3 ounces. . . . . 21c
- D Type 65—Metal Base Standoff. Size, 1¾ inches high. 57 NP 10002—Shipping weight, 5 ounces. . . . . 15c
- E Type 22J—Standoff with Jack. Size, 1 inch high. 57 NP 10004—Shipping weight, 3 ounces. . . . . 11c
- E Type 22—Porcelain Base Standoff. Size, 1 inch high. 57 NP 10005—Shipping weight, 3 ounces. . . . . 9c
- F Type 24—Same as above. Size, ¾ inches high. 57 NP 10006—Shipping weight, 3 ounces. . . . . 5c
- G Type 66—Metal Base Standoff. Size, 2¾ inches high. 57 NP 10007—Shipping weight, 6 ounces. . . . . 24c
- L Type 600—Porcelain Cone. Size, ¾ inches high. 57 NP 10008—Shipping weight, 3 ounces. . . . . 8c
- L Type 601—Same as above. Size, 1 inch high. 57 NP 10009—Shipping weight, 4 ounces. . . . . 9c
- H Type 134—Fadder Spreader. Size, 4 inches. 57 NP 10013—Shipping weight, 6 ounces. . . . . 12c
- H Type 136—Same as above. Size, 6 inches. 57 NP 10014—Shipping weight, 8 ounces. . . . . 15c
- J Type 30—Airplane Insulator. Size, 2 inches. 57 NP 10015—Shipping weight, 4 ounces. . . . . 6c
- J Type 32—Same as Above. Size, 1½ inches. 57 NP 10016—Shipping weight, 3 ounces. . . . . 5c
- K Type 38—Strain Insulator. Length, 1½ inches. 57 NP 10017—Shipping weight, 4 ounces. . . . . 9c
- B Type 50—Lead-In Bushing. Size, ½ x ¾ x 2 inches. 57 NP 10018—Shipping weight, 6 ounces. . . . . 12c
- B Type 51—Same as above. Size, 1½ x 1½ x 2½ inches. 57 NP 10019—Shipping weight, 8 ounces. . . . . 21c
- C Type 55—Alsimag Bushing. Size, ¼ x ¾ x 1¼ inches. 57 NP 10020—Shipping weight, 4 ounces. . . . . 15c

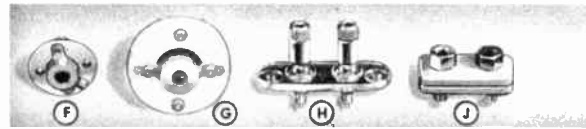


## Johnson Plugs and Jacks

- Shipping weight, each, 3 ounces.
- A 57 NP 10023—No. 74 Small Jack ¾ in. high. . . . . 4c
  - B 57 NP 10024—No. 75 Plug for above ¾-in. shank . . . . . 4½c
  - D 57 NP 10025—No. 75A Plug Same, with 1½ in. shank . . . . . 4½c
  - C 57 NP 10026—No. 75C Tapped Plug Has Screw in Head . . . . . 5c

## Insuline Couplings . . Rods . . and Bushings

- E Solid Brass shaft coupling. Shipping weight, 3 oz. 57 NP 19753—¼ to ¼ inch. . . . . 10c  
57 NP 19755—¼ to ¾ inch. . . . . 10c
- H Brass shafting. Round ¼ inch diameter. 57 NP 19757—6 in. long. Shpg. wt., 8 oz. . . . . 10c
- Fiber shafting. Round. ¼-inch diameter. 57 NP 19758—6 in. long. Shipping weight, 4 ounces . . . . . 10c
- G Panel bearing assembly. For mounting volume controls, condensers, rheostats at a distance away from the panel. For panels up to ¾ inch thick. Shaft ¼ inch. 57 NP 19761—Length overall 3 in. Shpg. wt., 4 oz. . . . . 19c
- F Insulated bushings for insulating condenser shafts, or as grommets. Red or black, specify color. 57 NP 19766—With ¼-in. hole. Shpg. wt., 2 oz. Each . . . . . 7c



## National Accessories

- F Coupling. Bakelite and canvas insulation. No backlash. 57 NP 19259—TX-10. For ¼ in. shaft. Shpg. wt., 3 oz. . . . . 36c
- G Steatite coupling. For ¼ in. shaft. Shpg. wt., 6 oz. 57 NP 19260—Type TX-9 Flexible . . . . . 73c
- C 57 NP 19256—Type TX-8 Non-flexible . . . . . 49c
- H Victrol Terminal Strip. Without jacks or binding posts as illustrated. 57 NP 19251—Shipping weight, 3 ounces each. . . . . 9c
- Type FWA Binding Posts. Nickel plated brass. Takes banana plug. Hole at base end. 57 NP 19245—Shipping weight, 2 ounces each. . . . . 17c
- Type GSJ Jacks. Nickel plated brass. Takes FWA posts. 57 NP 19250—Shipping weight, 3 ounces each. . . . . 7c
- J Type FWC Insulator. Made of R39. Without FWE Jack, as illustrated. Will also mount FWA posts. 57 NP 19252—Shipping weight, 3 ounces. Per Pair. . . . . 23c
- Type FWE Jacks. Nickel plated brass. Takes banana plug. 57 NP 19249—Shipping weight, 2 ounces each. . . . . 10c



### Silvertone "Seven Seas" Noise-Reducing Aerial

A \$5 quality! Extremely high suppression of man-made static and great sensitivity on all wave lengths. Consists of 60 feet of 1/24 tinned copper wire; 50 feet of weather-resistant two conductor lead-in wire; two iron core noise-reducing transformers. Permanent connections are all soldered. Accessories include: two aerial insulators; three 6-inch lead-in insulators; one double window lead-in strip; 50 feet of ground wire. For all radios except AC-DC sets. Shipping weight, 5 pounds.

57 NP 4704..... \$2.95

### RCA "Magic Wave" Noise-Reducing Aerial

New highly efficient noise-reducing antenna for every type of radio installation. Transmission line can be any length. Covers 530 to 23,000 kc. Completely assembled. Includes: Iron Core Antenna and Receiver Coupling transformers; 60-ft. Antenna Wire; 45-ft. Transmission Line; 50-ft. Ground Wire; 5 Porcelain Insulators and Ground Clamp. Shipping weight, 4 lbs.

57 NP 12527—Complete kit... \$3.43

### Bargain Aerial Kit

Everything needed to make an efficient Marconi type Antenna System. Not to be confused with other low priced kits in this price range which are generally supplied with very thin (3/32) Aerial Wire. Contains 60 feet of 1/24 copper aerial wire, insulators, lightning arrester. For all radios. A very good value at this price. Shipping weight, 2 pounds.

57 NP 4702—Complete Aerial Kit..... 57c



**A** Vis-O-Glow Lightning Arrester. Different from all others. Neon tube type. Carries heavy lightning discharges safely. Shipping wt., each, 8 oz.  
57 NP 12486—Single type..... 69c  
57 NP 14719—Duplex type..... 78c



**B** "Storm King" Lightning Arrester. Original non-air gap resistor type. Over six million are in satisfactory use. Made of genuine Bakelite.  
57 NP 12488—Single type. Shipping wt., 8 oz. 42c



**C** Glazed Porcelain Strain Insulator. Makes an ideal insulator for antenna installations. Length 2 1/2 inches. Shipping weight, each, 4 ounces.  
57 NP 4715..... Each 4c 10 for 31c



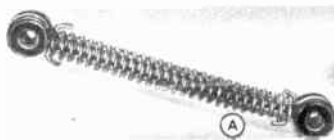
**D** Ground Clamp. A husky clamp that will stand vise-tight grip to insure a good ground. Rust resistant finish. Buy these clamps in lots of 10 and save. Shipping weight, each, 4 ounces.  
57 NP 4716..... Each 3c 10 for 22c



**E** Lead-In Strip. Duco insulated braid over zinc strip. Length 12 inches. Shipping wt., ea., 4 oz.  
57 NP 12492..... Each 3c 10 for 24c



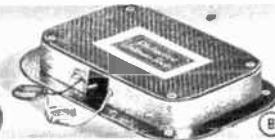
**F** Lead-In Insulator. For fastening lead-in wires to wall. Bakelite eye, cadmium plated screw. Strong and durable. Shipping weight, each, 4 ounces.  
57 NP 12484—3-inch. Each..... 3c  
57 NP 12485—7-inch. Each..... 4c



### Rust-Resistant Antenna Spring

**A** Prevents antenna sag. Powerful, compression type rust-resistant spring. Comes complete with porcelain insulator and rings. Especially suited for doublet type antenna to prevent swaying. Include several of these handy spring adjusters with your next order. Shipping weight, 1 pound.

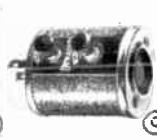
57 NP 12493—Each..... 24c



### Permeability Tuned Antenna Loop

**B** Designed to replace outside antenna system on any radio. Duplicates "built in" loops of modern sets. Loop inductance is variable by means of permeability tuning; instantly adjustable to the exact requirements of set in which it is installed. Complete, easy-to-understand instructions make installation easy. Improves selectivity and reduces noise. May be used with all radios including portable and midget sets. Size 9x7x1 1/2 inches. Small enough to attach on the back of the radio cabinet.

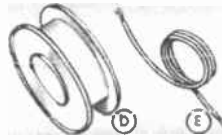
57 NP 10487—Shipping weight, 1 lb. 8 oz. \$1.10  
57 NP 12483—ICA Tennescope. As above except capacity tuned. Shipping wt., 2 lbs. \$1.15



### Indoor Antenna—Dynatrol Filter

**C** Combination indoor aerial and line noise filter. Plugs into light socket and makes use of service line as antenna. May be used in conjunction with regular outside antenna to gain increased pickup. Serves to reduce noise and improves set sensitivity. Binding post connections. For all radios except AC-DC.

57 NP 12490—Shipping weight, 1 pound..... \$1.03



### Belden AC-DC Aerial Wire

**D** Belden indoor aerial wire. Flexible. 18 feet No. 23 (20x36) double wrap brown cotton.

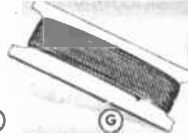
57 NP 12529—Shipping weight, 4 ounces..... 8c



### Belden Litz Wire on Spool

**E** Has two wraps of tram silk. 100 feet to spool. 7 strands, No. 41. Shipping weight, 12 oz.

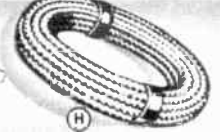
57 NP 19386—Per spool..... 14c



### Flexible Spaghetti Tubing

**F** Colors: Black, Yellow, Red or Green. State color wanted. Shipping weight, 4 ounces.

57 NP 19387—Per 30-inch length..... 9c



### Push-Back Belden Hookup Wire

**G** Double braid, push back. Waxed. Size 20 tinned. Available in following colors: Green, Blue, Yellow, Red, and Black. State color. 25-foot spool. Shipping weight, 8 ounces.

57 NP 19360—Solid..... 16c  
57 NP 19361—Stranded..... 17c

Filament Wire. No. 14. 41 strands No. 30. Cellulose Acetate push back. Basket weave. Tinned. Black or red. State color. Shipping weight, 8 ounces.  
57 NP 19362—25-foot spool..... 32c

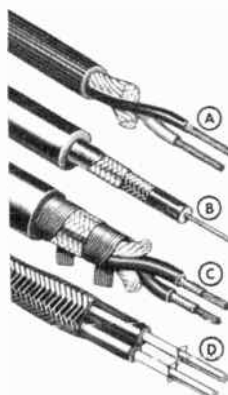


### Belden Magnet Wire

Like practically everything else the radio man uses, Magnet wire should be of the highest quality for best results. Why take a chance on poorly insulated "bargain" quality when you can get genuine Belden magnet wire at these low prices. Metal spools. Each spool is one continuous length. Shipping weights, 1/2-pound spools, 1 pound; 1/4-pound spools, 8 ounces.

1/2-lb. Plain Enameled Spools			
Catalog No.	Size	Feet	Each
57 NP 19366	18	101	27c
57 NP 19367	20	160	29c
57 NP 19368	22	253	29c
57 NP 19369	24	402	30c
57 NP 19370	26	640	33c
57 NP 19371	28	1013	36c
57 NP 19372	30	1610	40c
1/4-lb. Plain Enameled Spools			
57 NP 19373	32	1275	24c
57 NP 19274	34	2030	29c
57 NP 19375	36	3220	33c

1/2-lb. Double Cotton Spools			
Catalog No.	Size	Feet	Each
57 NP 19376	18	96	33c
57 NP 19377	20	150	35c
57 NP 19378	22	235	38c
57 NP 19379	24	362	43c
1/4-lb. Double Cotton Spools			
57 NP 19380	26	560	26c
57 NP 19381	28	860	30c
57 NP 19382	30	1321	36c
57 NP 19383	32	1970	42c
57 NP 19384	34	2746	56c
57 NP 19385	36	1675	72c



### Belden 2-Conductor Speaker Wire

**A** Rubber covered cable for P.M. Speaker lines. 1/4-in. rubber sidewall over cotton wrap. Conductors size 18.  
57 NP 19365—Shipping weight, 4 pounds. 100 feet..... \$3.18

### Belden Microphone Cable

**B** High grade, low capacity cable, the best that Belden makes. Capacity 25 mmfd. per foot. Rubber jacket.  
57 NP 19364—Shipping wt., for 50 feet, 2 lbs. Per foot..... 5c

### Belden 100-Ohm Twisted Pair

**C** For television or F.M. lead-ins. 18 strand tinned, celanese braid, rubber covered, color coded, twisted pair with fillers, celanese wrap, rubber sheath. Outside diameter 1/4-in.  
57 NP 12528—Shipping wt., 5 lbs., per 100 feet. Per foot..... 6c

### Belden Transmission Line

**D** 18 strands. Cotton wrap. Rubber covered. Shpg. wt., 2 lbs.

Frequency	Surge Imped.	Power Factor	Capacity Per Ft.	DB Loss Per 100 Ft.
1500KC	67.7 ohms	1.42%	33.5 mmfd.	0.157
10MC	68.4 ohms	1.93%	32.5 mmfd.	2.11
40MC	68.9 ohms	2.02%	31.9 mmfd.	6.25

57 NP 19363—75 feet. Coil..... \$1.15

# Complete Service Manuals



Available on  
Easy Terms,  
See Page 2



## Fact-Filled Service Manuals by John F. Rider

### Rider's Trouble Shooters' Manuals

No serviceman can anticipate the year, make and model of the next set that will come to his bench. It may be anywhere up to ten years old. For this reason you *must* have the volume of Rider Manuals that contains the servicing information on that particular set, or else risk a haphazard job—wasted time—a broken delivery promise and a disgruntled customer. Get your full money's worth out of every Rider Manual—buy it the day it comes out. Benefit from the *complete* servicing information that only Rider Manuals can give you: Data on alignment, I.F. peaks, operating voltages, parts lists and parts values, voltage ratings of condensers, wattage ratings of resistors, coil resistance data, and all the other information that is vital if you are to know exactly what the manufacturer put in that receiver. Size 9x11 1/2 in. **Postpaid in U.S.A.**

Catalog Number	Volume Number	Covers Radios Up to	Number of Pages	Price
57NP18148	XII	April, 1941	1652	\$9.80
57NP18149	XI	June, 1940	1652	9.80
57NP18150	X	1939-40	1664	9.80
57NP18151	IX	1938-39	1672	9.80
57NP18152	VIII	1937-38	1650	9.80
57NP18153	VII	1936-37	1600	9.80
57NP18154	VI	1935-36	1240	7.35
57NP18155	V	1934-35	1200	7.35
57NP18156	IV	1933-34	1060	7.35
57NP18157	III	1932-33	1070	7.35

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57 NP 18160—Combines Volumes I, II, III. **Postpaid in U.S.A. \$22.05**  
57 NP 18161—Combines Volumes IV, V, VI. **Postpaid in U.S.A. \$22.05**

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### New Radcraft 1941 Manual

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### Official Radio Service Manual

Volume VII. Contains schematic diagrams and service data on 1936-37 and early '38 receivers. 1,800 pages of material which radio men use every day. Wiring diagrams of over 1,200 different manufactured sets. Over 3,000 different illustrations. Bound in hard, loose-leaf covers—pages may be removed and replaced. Size—9x12 inches. **57 NP 18177—Postpaid in U.S.A. \$9.80**

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By John F. Rider. More and more broadcasting stations are going on the Air with F.M. More and more receivers and converters are being bought and will need to be serviced. This book equips you to better do the job. Thoroughly covers the subject. 136 pages. Flexible Cloth bound. Profusely illustrated. **57 NP 18146—Postpaid in U.S.A. 98c**

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By John F. Rider. Explains how you can locate troubles in any receiver—old or new—more quickly and more accurately than ever before. This system of receiver testing uses the one factor common to all sets—the SIGNALS—as a working basis. Size, 5 1/4 x 8 3/4 inches. 360 pages. Hard bound cover. Illustrated. **57 NP 18179—Postpaid in U.S.A. \$1.96**

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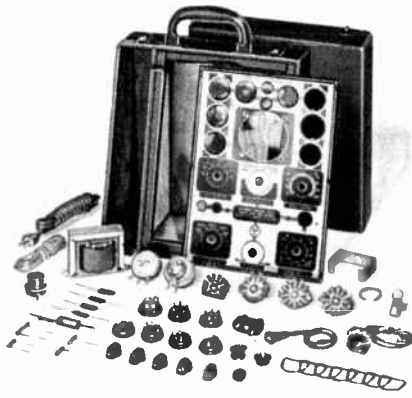
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# Speed Up Your Work With These



**\$10.45**  
Less Case

## Radio City Tube Tester Kit

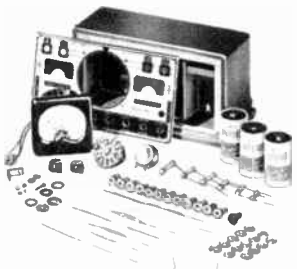
**Model 309K.** Here is your opportunity to save money on a new tube tester while getting exactly the kind of a wiring job you want. The parts supplied with this kit will enable you to make a modern Radio City Model 309 Tube Tester (see Page 32 for description). Simply follow the circuit diagram (furnished with each kit). Diagram is so clear and complete that even the novice should have no trouble in finishing the instrument in one evening's work. Everything you need except meter and case, is included in the kit—even the hookup wire is furnished.

**57 NP 10459**—Complete Kit of parts less meter and case. Shipping weight, 8 pounds. **\$10.45**

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## Radio City Volt-Ohm-Milliammeter Kits

Why not build your own Volt-Ohm Milliammeter and save the difference? You can buy just the foundation meter if you like, or the meter and all necessary parts with or without the case.

**Model 446K Kit.** Illustrated above. Made for use with 3-inch square D'Arsonval 1-Mil Meter (listed below) giving 1000 ohms per volt on D.C. Provides following scales D.C. volts: 0-5-50-250-500-2500; D.C. Milliamps: 0-1-10-100-1000; D.C. Amps: 0-10; A.C. Volts: 0-10-100-500-1000; Resistance 0-500-100,000 ohms-1 megohm. D.B. ranges: 8 to -55 in 4 scales; Output ranges same as AC volts. Complete wiring instructions furnished. Batteries included.

**57 NP 10467**—Complete parts including panel and switch needed for DC and resistance range as listed above. Less meter. Shpg. wt., 1 lb **\$3.55**

**57 NP 10468**—Complete parts needed for A.C. ranges, output ranges, and D.B. ranges as listed above. Less meter. Shipping weight, 1 pound. **\$1.75**

**57 NP 10466**—Three-inch foundation meter. Shpg. wt., 2 lbs **\$3.65**

**57 NP 10476**—Hardwood case, size 8½x5x3¼ inches. Shpg. wt., 1 lb **\$1.00**

**Model 411K Kit.** Has 4½-inch 5000 ohms per volt Meter (on D.C.). See Radio City, Model 411 on Page 31 for description of ranges and illustration of complete instrument.

**57 NP 10483**—Complete Kit of parts and panel. Less meter and case. All AC and DC ranges. Shpg. wt., 2 lbs **\$10.25**

**57 NP 10462**—Foundation Meter only. Shipping weight, 3 lbs. **\$7.75**

**57 NP 10464**—Open face hardwood case for above. Size 8½x10½x4¼ inches. Shipping weight, 3 pounds **\$1.95**

**30 . . SEARS, ROEBUCK AND CO.**



## Triplet Model 1200F

Volt-Ohm Milliammeter with push-button control. Buttons of different color for A.C. and D.C. Voltage, Current and Resistance ranges. All switches are locking type, and only one need be set for each test. This means less switching contacts. Depressing any one button releases any other. Tester also has a separate release button. D.C. Volts, 0-10-50-250-500-1000 at 25,000 Ohms per volt. A.C. Volts, 0-10-50-250-500-1000 at 1000 Ohms per Volt. D.C. Milliampers, 0-1-10-50-250. D.C. Microampers, 0-50 (through separate jacks). Resistance 0-500 Low Ohms, shunt type circuit; 0-300,000 Ohms; 0-3 and 0-30 Megohms, series type circuit. Self-contained batteries for all ranges. Output readings available on A.C. Voltage ranges, through a built-in ½ Mfd. condenser. Meter is a 4-inch triplitt "Red-Dot" which is your guarantee of lifetime service. Plug-in rectifier. Metal case size 7½x6½x5¼ inches. Elastic strap inside cover for carrying accessories. Like all Triplitt instruments, this volt-ohm-milliammeter is built to the very highest standards. Shipping weight, 14 pounds.

**57 NP 017928** ..... **\$30.03**

## Triplet Model 625T

Highly sensitive Volt-Ohm-Milliammeter. Gives you a compact portable tester with 12 A.C.-D.C. ranges to 5000 volts, six D.C. current ranges including microampers, milliampers, and amperes; three resistance ranges. D.C. and A.C. Volts: 0-215-10-50-250-1000-5000 at 1,000 ohms per volt on both. D.C. current ranges 0-100 microampers, 0-1-10-100 milliampers, and 0-1-10 amperes. Resistance ranges: 0-400 ohms (shunt circuit), 0-50,000 ohms and 0-4 megohms (series type circuit). Self-contained batteries for all resistance ranges. Complete insulation for high voltage testing provided by black molded case. Red Dot lifetime meter, with extra long 4.58-inch scale. Cartridge loading battery compartment. Knob operated zero adjustment. Case size 6x5½x2½ inches. Shipping weight, 6 pounds.

**57 NP 012591** ..... **\$21.56**

## R.C.A. Voltohmyst 165

Junior Voltohmyst . . . a very popular and efficient service instrument. Small, compact electronic-type volt-meter and ohmmeter. An ideal instrument for the service shop or laboratory. One of its most outstanding features is its extremely high input resistance and stable operation. Line voltage fluctuations or differences in tubes do not affect its accuracy. The DC electronic volt-meter ranges are: 0-3-30-100-300-1000 V. AC at 1000 ohms per volt; 0-1000 megohms in 6 ranges. No zero reset when changing scales. No leads to short. Meter accuracy, 2% at full scale. Gray steel cabinet, 9¾x4¾x4¾ in. With tubes and test leads. For 105-125 volts, 50-60 cycle operation. For Sears Easy Terms, see Page 2. Shipping weight, 14 pounds.

**57 NP 013141** ..... **\$37.50**

We regret that we cannot guarantee the prices in this catalog. This is because the manufacturers of radio and test equipment establish the prices at which we are permitted to sell . . . and reserve the right to change such prices without notice. See Page 2 for details.



## Triplet and Readrite Accurate Panel Meters

**Triplet Meters.** Famous for fine workmanship and dependability. Rugged D'Arsonval movement assures accuracy within 2%. Genuine polished sapphire-jeweled bearings are set in adjustable screws, with balanced aluminum-ribbed-type pointers. Metal dials finished in white enamel with large, easily-read scales. Zero adjusting screw on front of meter. In bakelite cases.

**Readrite Meters Model 55 D.C.** Accuracy within 5%. D.C. meters are polarized vane, solenoid type. Require 2¾-inch mounting hole. Have easy-reading white dial, black lettering and full nickel-finish metal shell panel. Clamp included. 2¼ inch diameter. For outside flange mounting use No. 65A flange ring.

**Readrite Model 95.** An attractive new model. Beautiful black lacquer finish square cases, size 2¾-inch x 2¾-inch. Meters require a 2¾-inch hole for mounting.



### Triplet Meters. Shipping weight, each, 3 pounds.

Scale	Round		Round		Square		Square	
	Body Diam. 2 3/8 in. Flange Diam. 2 3/8 in.	Price Each	Body Diam. 2 3/8 in. Flange Diam. 3 1/8 in.	Price Each	Body Diam. 2 3/8 in. Flange 2 3/8 x 3/8 in.	Price Each	Body Diam. 7/8 in. Flange 3x3 in.	Price Each
0-1 D.C. Milliamps	57 NP 12338	\$4.58	57 NP 12190	\$5.56	57 NP 12256	\$4.58	57 NP 12223	\$5.56
0-100 D.C. Milliamps	57 NP 12345	3.60	57 NP 12197	4.58	57 NP 12263	3.60	57 NP 12230	4.58
0-150 D.C. Milliamps	57 NP 12346	3.60	57 NP 12198	4.58	57 NP 12264	3.60	57 NP 12231	4.58
0-200 D.C. Milliamps	57 NP 12347	3.60	57 NP 12199	4.58	57 NP 12265	3.60	57 NP 12232	4.58
0-300 D.C. Milliamps	57 NP 12349	3.60	57 NP 12201	4.58	57 NP 12267	3.60	57 NP 12234	4.58
0-500 D.C. Milliamps	57 NP 12350	3.60	57 NP 12202	4.58	57 NP 12268	3.60	57 NP 12235	4.58
0-10 A.C. Volts	57 NP 12353	3.60	57 NP 12205	4.58	57 NP 12271	3.60	57 NP 12238	4.58
0-5 A.C. Amps.	57 NP 12366	3.60	57 NP 12218	4.58	57 NP 12284	3.60	57 NP 12251	4.58
0-10 A.C. Amps.	57 NP 12367	3.60	57 NP 12219	4.58	57 NP 12285	3.60	57 NP 12252	4.58

### Readrite D.C. Milliammeters. Shipping weight, each, 1 pound.

Scale	Model 55 (Round)		Model 55 (Round)		Model 95 (Square)	
	Without Zero Adjustment	Price Each	With Zero Adjustment	Price Each	Without Zero Adjustment	Price Each
0-15 D.C. Milliamps	57 NP 12037	\$0.65	57 NP 12084	\$0.80	57 NP 12131	\$0.87
0-25 D.C. Milliamps	57 NP 12038	.65	57 NP 12085	.80	57 NP 12132	.87
0-100 D.C. Milliamps	57 NP 12040	.65	57 NP 12087	.80	57 NP 12134	.87
0-150 D.C. Milliamps	57 NP 12041	.65	57 NP 12088	.80	57 NP 12135	.87
0-200 D.C. Milliamps	57 NP 12042	.65	57 NP 12089	.80	57 NP 12136	.87
0-300 D.C. Milliamps	57 NP 12043	.65	57 NP 12090	.80	57 NP 12137	.87

## READRITE Mounted Pocket Meters with Battery

**Model 511.** Scales 0-3-30-300 D.C. Volts and 0-10,000 ohms. Black wood case, size 2¾x2¾x2 in. Complete with self-contained battery and test leads. Shipping weight, 5 pounds.

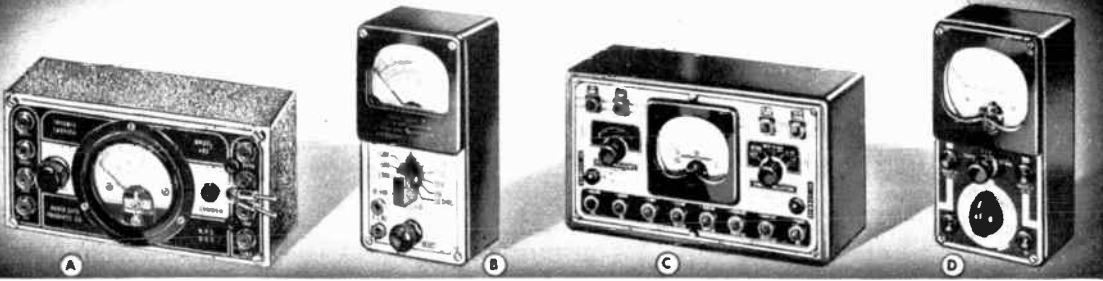
**57 NP 18865** ..... **\$2.79**

**Model 510 Volt-Ohmmeter.** Same as Model 511 listed at left, but with the following ranges: 0-300 D.C. volts; 0-10,000 ohms. Complete with battery. Shipping weight, 5 pounds.

**57 NP 18866** ..... **\$2.21**



# Modern Service Instruments



## Radio City Model 432

- (A) Multi-scale D'Arsonval meter 0-1 mil, accurate within 2%. Individual low ohm scale. **D.C. Volts** 0-5/0-50/0-500/0-1000 at 1000 ohms per volt sensitivity. **D.C. Milliamps** 0-1/0-10. **Ohms** 0-500/0-50,000/0/500,000 reading as low as 0.2 ohm. Batteries for all ohmmeter ranges. Zero meter adjustment. Hardwood case.
- 57 NP 018830—Model 432. Shpg. wt., 4 lbs. . . . . **\$7.30**  
Complete
- 57 NP 018828—Model 456. Ranges as in Model 432 in A.C., D.C. 4 db. ranges. **Ohms** 0/5000/500,000. Shpg. wt., 4 lbs. . . . . **\$9.75**
- 57 NP 017948—Model 433. Similar to Model 432. Same ranges, 3-in. meter. Rotary switch. Shpg. wt., 4 lbs. . . . . **\$8.09**

## Readrite Model 738

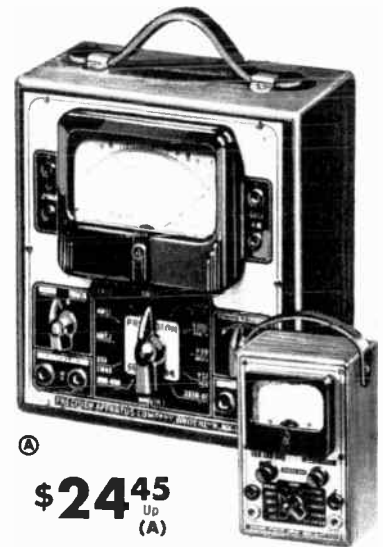
- (B) Pocket Volt-Ohm-Milliammeter with Triplett 3-in. Meter. Knob operated zero adjustment. Scales: **D.C. Volts** 0/15/150/750/1500 at 1000 ohms per volt. **D.C. Milliamps** 0/15/150/150. Low ohms (shunt type circuit) 0-500 with 25-ohm point in center of scale. 0/500,000 ohms (series circuit). Molded Case 3 1/4 x 5 1/2 x 2 1/2 in. Test leads and batteries incl.
- 57 NP 018862—Shipping weight, 5 pounds. . . . . **\$8.08**
- Model 739. Pocket Volt-Ohm-Milliammeter. A general test instrument, equal to 25 single units. Has selector switch for all ranges . . . separate knob-operated zero adjustment for resistance measurements . . . precision Triplett three-inch meter with two natural sapphire jewel bearings. Ranges **A.C.—D.C. Volts** 0-15-150-750-1500 (D.C. at 1000 ohms per volt); **D.C. Milliamps** 0-1 1/2-15-150; Resistance, Low ohms, 0-500, 0-500,000 ohms, series type circuit. Molded case, size 3 1/4 x 5 1/2 x 2 1/2 in. Test leads, included.
- 57 NP 018861—Shipping weight, 5 pounds. . . . . **\$10.67**

## Radio City Model 446

- (C) D'Arsonval Meter 3-in. square, 5 range D.C. voltmeter 0/5/50/250/500/2500. 4 range D.C. milliammeter 0/1/10/100/1000. **D.C. Arimeter** 0/10. Amp. 4 range A.C. voltmeter 0/10/100/500/1000. 3 range ohmmeter 0/500/100,000/1 Meg. Low range ohmmeter is low current drain back up type reading as low as 0.1 ohm. Center of scale reads only 10 ohms. 4 db. ranges—8 to 15/12 to 35/26 to 49/32 to 55. 4 output ranges—same as AC volts. Meter sensitivity 1 milliampere or 1000 ohms per volt.
- 57 NP 017947—Shipping weight, 4 pounds. . . . . **\$10.73**  
Complete

## Supreme Model 543

- (D) Pocket Multimeter in bakelite case. 3-in. one-mil meter with a sensitivity of 1000 ohms. Single rotary selector switch provides following ranges:—0/200/200,000 ohms; Direct Current—0/6/60/600 MA.; A.C. 0/15/150/600/3000 volts; D.C. 0/15/150/600/3000 volts. Makes A.C. and D.C. voltage measurements in radio and television receivers. High voltage ranges may be used on transmitter and scope.
- 57 NP 017942—With batteries. Shpg. wt., 4 lbs. . . . . **\$13.47**
- Model 542 Multimeter. 3x5 1/4 x 2 in. 4 D.C. mil ranges (with first scale division 5 microamperes) of 0/0.3/6/30/150; 4 D.C. volt ranges (with first scale division 0.1 volt) of 0/6/150/300/1500; resistance ohms ranges (with 1 ohm first scale division and 25 ohms center scale) of 0/2000/20,000/200,000/2 meg; 4 A.C. volt ranges (with first scale division 0.1 volt) of 0/6/30/150/600; 4 output ranges of 0/6/30/150/600. 4 decibel ranges of -6/+10, +8/+24, +22/+38, +34/+50.
- 3 in. square meter with 200-microampere movement. 5000 ohms per volt sensitivity. Ohmmeter ranges, including meg-ohm range operated by batteries.
- 57 NP 018846—With batteries. Shpg. wt., 2 lbs. . . . . **\$17.59**



**\$24.45**  
UP  
(A)

## Precision Model 844L

- (A) Volt-Ohm-Milliammeter 4 1/4-inch square, 400 microamperes meter. A.C. and D.C. voltage ranges at 1000 ohms per volt; 0-12/60/300/600/1200/6000 volts. D.C. current ranges: 0-1.2/12/60/300/1200 MA.; and 0-12 Amperes. Resistance ranges; 0-400; 0-100,000; 0-1 meg.; and 0-10 megs. Batteries mount inside of case. Six decibel ranges from -12 to 70 db. Six Output Ranges, same as A.C. voltage ranges. Wire wound shunts and multipliers are of 1% accuracy. Individually calibrated for 2% D.C. and 3% A.C. overall accuracy. Hardwood case. Size 7 1/2 x 8 1/2 x 4 in. Less Batteries and test leads. Batteries required, one 57 NP 13100 and one 57 NP 13112 (see Page 37). Shipping weight, 6 pounds.
- 57 NP 018391 . . . . . **\$24.45**

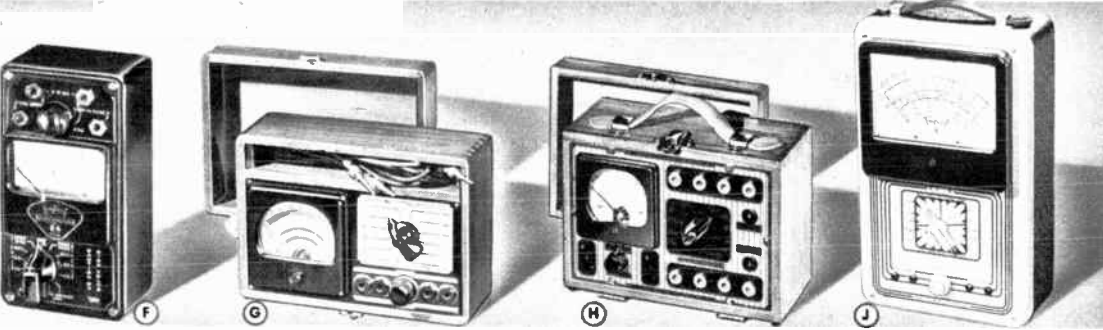
Model 845L. Similar to Model 844L shown above (A). Combines in a single compact unit, two complete Multi-range testers—one of 5,000 ohms per volt provides for accurate measurements in high resistance circuits, and the other at 1000 ohms per volt for standard sensitivity measurements for point-to-point voltage reading comparisons as furnished by receiver manufacturers and in service manuals. The 200 Microampere meter used is 4 1/4 inches square and housed in a bakelite case.

Scales: 0/12/60/300/600/1200/6000 Volts D.C. at 5000 ohms per volt; 0/12/60/300/600/1200/6000 Volts D.C. at 1000 ohms per volt. Resistance ranges with self-contained batteries 0/2000/200,000/2 megs/20 megs with 15 ohm center on lowest scale. Direct current ranges, 0/300 Microamps 0/1.2/12/60/300/1200 Milliamps, 0/12 Amperes. Db. ranges -12 to +70. Output ranges same as A.C. voltage ranges. All wire wound shunts and matched metallized multipliers are of 1% tolerances. All instruments individually calibrated for 2% D.C. and 3% A.C. overall accuracy. Walnut finished hardwood case with carrying handle. Size 7 1/2 x 8 1/2 x 4 inches. Batteries and test leads not furnished. Requires one 57 NP 13100 and one 57 NP 13112 batteries (see Page 37). Shipping weight, 7 pounds.

57 NP 012583 . . . . . **\$28.37**

57 NP 012582—Model 845P. Same as 845L except with cover and compartment for test leads. Less test leads and batteries. Shipping weight, 9 pounds. . . . . **\$30.33**

- (B) Model 834. Provides 31 AC and DC ranges to 6000 volts, 600 milliamps and 5 megohms with 1000 ohms per volt sensitivity on both AC and DC voltages. No external batteries or multipliers. Has 3 1/4-inch bakelite cased 400 microampere meter. Hardwood case size 7x4 1/2 x 3 inches. Ranges: 0/12/60/300/600/1200/6000 volts AC and DC; 0/1.2/12/60/600 DC milliamps; 0/5000/500,000 ohms/5 megohms. -10 to +70 db; Six output ranges same as A.C. volts. Each instrument individually calibrated to 2% DC and 3% AC accuracy. Batteries and test leads not furnished. Furnished complete with 3-volt battery but without test leads. Shipping weight, 4 pounds.
- 57 NP 012584 . . . . . **\$19.55**



## Triplett Model 666H

- (F) Volt-Ohm-Milliammeter. A.C.—D.C. Voltage at 1000 ohms per volt 0-10-50-250-1000-5000 (compensated copper-oxide rectifier provides for A.C. measurements); D.C. Milliamps 0-10-100-500; Resistance 0-300 ohms; shunt type circuit, 10 ohms reading at center scale; 0-250,000 ohms; series type circuit 3700 ohms at center scale.
- 57 NP 017935—Shipping weight, 4 lbs. . . . . **\$15.65**
- Model 666. Same as above but ranges are: A.C.—D.C. Volts 0-10-50-250-500-1000 at 1000 ohms per volt; D.C. Milliamps 0-1-10-50-250; Low Ohms, 1/2 to 300; High Ohms to 250,000 with provisions for higher readings.
- 57 NP 017929—Shipping weight, 4 pounds. . . . . **\$15.09**
- Model 666S. Similar to above. Ranges: A.C. and D.C. volts, 0/2.5/10/50/250/1000/5000 at 1000 ohms per volt; D.C., 0/10 microamps, 0/1/10/100 milliamps, 0/1/10 amps; 0/400 ohms (shunt circuit) 0/40,000 ohms, 0/4 megs (series circuit). Triplett Red Dot Meter. Insulated case 3 1/4 x 5 1/2 x 2 1/2 in.
- 57 NP 012590—With batteries, test leads. Shpg. wt., 4 lbs. **\$16.34**

## Radio City Model 411

- (H) Volt-Ohm-Milliammeter. Thirty-three individual instruments . . . in one compact unit with an unusual variety of low and high ranges. 5-stage, high AC-DC voltage range to 5,000 volts. 3-stage, high AC-DC current range to 25 amps. 3-in. square meter with movement of 200 microamperes or 5,000 ohms per volt. DC Volts 0/10/100/250/1000/5000. DC Amps 0/1/10/25. DC Milliamps 0/10/100. DC Microamps 0-200. Center of scale on low ohmmeter range, 5 ohms with each first ten divisions measuring 0.1 ohm. 3-stage easy reading, high ohmmeter range up to 4,000,000 ohms. AC Volts 0/10/100/250/1000/5000. AC Amps. 0/2.5/5/25. AC Milliamps 0/500. Db meter from -10 to 69 in 5 stages. Output meter same as AC volts. Solid walnut case.
- 57 NP 018831—Without cover. . . . . **\$19.06**  
Shipping weight, 4 pounds.
- 57 NP 018832—With cover, test leads and compartment for test leads. Shipping weight, 5 pounds. . . . . **\$21.53**

## Triplett Ultra-Sensitive Meter

- (I) Model 1600-E. An instrument of laboratory accuracy. Features 7-inch Red-Dot lifetime guaranteed meter. Scales: AC and DC volts 0/10/50/250/500/5000 at 5000 ohms per volt. Direct Current 0/50 microamperes, 0/1/10/50/250/500 milliampers. Resistance 1/2 to 500 ohms (shunt circuit), 0/20,000/200,000/2 megs (to 20 megs with external 22 1/2-volt battery). Streamlined case 15x9x4 in. Test leads included.
- 57 NP 012592—Shipping weight, 17 pounds. . . . . **\$27.51**

## American Pocket Laboratory

- (J) Hardwood case. 3-color panel. 3-in. meter, zero adjustment. D.C. voltage ranges 0/3/10/50/250/500/5000 at 5000 ohms per volt. A.C. ranges 0/15/150/1500 volts. Resistance ranges 0/3000 ohms with 15 ohm center. 0/30,000/300,000/3 megs. Current ranges 0/200 Microamperes, 0/2/20/200 Milliamps, D.C. Output ranges same as AC volts. Db readings, -2 to 58.
- 57 NP 010792—3 1/4 x 5 x 7 in. Shpg. wt., 5 lbs. . . . . **\$12.85**

# Preferred Model Tube Testers and



**Radio City Model 309P**

**\$21<sup>02</sup>**  
Combination

Popular priced tube checker. Tests 35-45-50-70 up to 117-volt tubes and all metal, M.C. glass, OZ4, cold cathode rectifiers, octal, loctal and single end tubes. Tests made under R.M.A. specified plate voltages co relative test. Tests all ballast tubes. Separate ballast tube chart included. Hot interelement short and leakage test between all individual elements. Hot cathode leakage test. High sensitivity neon indication. Noise tests—provides for audible test of noisy tubes. Individual test of each section of full wave rectifiers, duo diodes and all multi-purpose tubes. Spare socket provides for future tubes with new base arrangements. Adjustable for all line voltages, 105-135, with line voltage indication directly on meter. 3-inch square D'Arsonval meter, accurate within 2%. Direct reading. Attractive artificial leather covered carrying case, size 11 1/4 x 12 7/8 inches. For 110 volt 50/60 cycle A.C.

57 NP 017925—Model 309P. Combination Portable and Counter Model. Shpg. wt., 13 pounds \$21.02  
57 NP 017939—Model 309C. Counter Model. Hardwood case, no cover. Shpg. wt., 11 pounds \$18.57



**American Model 4101**

**\$17<sup>85</sup>**  
Complete

An excellent value! Tests all tubes from 1.4 to 117 volts, including 4, 5, 6, 7, 7L octals, loctals, Bantam, Jr., Peanut, single ended, floating filament, Mercury Vapor rectifiers, new S series, new RCA Midget loctals. All tests for quality are read directly on a 4 1/4-in. jeweled D'Arsonval type meter. New push-button switches usually found only on more expensive testers. Also tests shorts and leakages up to 2 megohms in all tubes. Tests both plates in rectifiers and individual sections such as diodes, triodes, pentodes, etc., in multi-purpose tubes. Has a newly developed voltage regulator which enables you to compensate for the particular line voltage in your locality. A spare socket and an extra switch point assures positive protection against obsolescence. Size 4 3/8 x 11 1/2 x 12 3/8 inches. Attractive heavy gauge frosted panel finished in chrome, red and black. Hand rubbed wooden cabinet with cover. Operates on 110-volt 60-cycle A.C. Complete with instructions. Low price and impressive appearance are the outstanding features of this instrument. It is as accurate and as well made as you will find at this price.

57 NP 017936—Shipping weight, 15 pounds \$17.85



**Readrite Model 432A**

**\$20<sup>31</sup>**  
Complete

A very reliable tube checker... at a popular price. May be used as a portable or counter tester. Tests all receiving tubes including 4, 5, 6, and 7-prong types, Octals, Loctals, Miniatures, Bantam Jr., Gaseous Rectifiers and the high voltage 117 volt series. Also has ballast tube continuity test. Separate plate tests for diodes and rectifiers. Will not deactivate 1.5 volt or other tubes. Neon short test indicates the shorts and leakage between any two elements. Filament voltage supplied in 19 steps from 1.1 to 110 volts.

Results are read directly on the Good-Bad three-color scale Triplett Red Dot lifetime guaranteed indicating instrument. This instrument has two genuine sapphire jewel bearings and finest quality parts. Separate line voltage control meter permits constant line indication and control, without switching and re-adjusting load controls. A.C. operated—110 volts, 60 cycles. Complete with artificial leather case. Here is a tube checker that will give you months of reliable service... and at a price that you can afford to pay. Shipping weight, 18 pounds.

57 NP 018867—Model 432A \$20.31



**Triplett Model 1612**

**\$37<sup>57</sup>**  
Cash  
\$8 Down

With this tube tester any one can make accurate tests with greater speed. Has large 6-in. scale Red Dot lifetime-guaranteed measuring instrument. Tester will not become obsolete because filament voltages are provided in twenty steps, from 1 volt to 110 volts, all transformer connections are made for use on future tubes with voltages between these ranges.

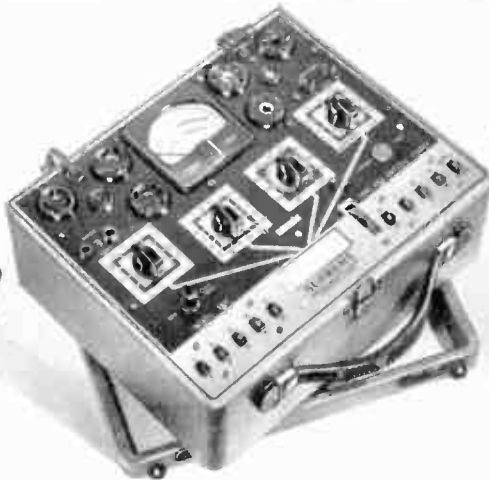
Model 1612 has a fully balanced RMA circuit and leakage test for cathode and heater and inner elements, with short tests between any two elements, check for open filaments, hot leakage check, separate section tests of multi-section tubes, and separate plate test of full-wave rectifiers.

Illuminated speed-roll chart. Streamlined, heavy seamless steel case. Size is 15 1/4 x 11 1/2 x 6 inches. For 110-volt 60-cycle A.C. Shipping weight, each, 30 pounds.

57 NP 018306—Model 1612 Counter Type \$32.18

57 NP 018307—Model 1613 Portable as illustrated above, with a detachable cover. Case size with cover—15 1/4 x 11 1/2 x 6 1/2 inches \$37.57

32 . . SEARS, ROEBUCK AND CO.



**Supreme Model 589**

**\$32<sup>83</sup>**  
Cash  
\$8 Down

Tube and battery tester. Tube-test sockets are not wired directly to circuit, but pass through patented Double Floating Filament Return Selector System—Automatically reconnects all tube elements to any possible tube base arrangement. Since any or all elements of each socket can be rotated to any desired position, only one socket of each type is necessary. Tests every type of tube from 3/4 volt to full line voltage under proper load. Tests separate sections in multi-purpose tubes. Checks all leakages, shorts, open elements and filament continuity with a neon lamp. A circuit insert is provided for checking noise, leakage, loose and bad connections. Battery testing circuit provides proper load at which each battery is to operate, plainly marked on panel, for all 1.5, 4.5, 6.0, 45 and 90-volt portable radio types. Condition of the battery is indicated on an English reading scale. Roller type tube chart lists tubes in numerical order. This model is specially designed by Supreme Engineers to anticipate changes in tubes and circuits for years to come.

57 NP 017940—Shipping weight, 19 lbs \$32.83



**Precision Model 910P**

**\$37<sup>19</sup>**  
Cash  
\$8 Down

Tests all tubes including gaseous rectifiers and ballast types for both mutual conductance and cathode structure. Accommodates all Filament voltages from 1.4 to 120 volts.

Automatic push button system. Dual free point filament terminal selection. Visible filament continuity tests. Varying AC signal applied to control grids. Meter reads in plate circuit; indications entirely dependent on control action (transconductance) of each of intervening elements. Meter indication instantly shows up any tube having an open element. Hot cathode leakage and inter-element short tests made very simply. Noise test pin jacks incorporated for ear-phone or amplifier connection. Pilot light tests for all miniature type lamps. Built-in roller tube chart. Micro-line adjustment. Pilot light (on-off) indicator. Fused line plug. Hardwood portable type case. Size, 12x13x6 in. Shipping weight, 18 pounds.

57 NP 018359—Model 910P. Has 3-in. meter \$37.19

57 NP 012586—Model 912P. Same as 910P except has direct battery testing facilities and meter is 4 1/4 inches square. Shpg. wt., 18 lbs. \$41.11



# Signal Generators



**American Model 4103**

Generates R.F. signals from 100 K.C. to 30 megacycles on Fundamentals... and from 30 megacycles to 50 megacycles on Harmonics. Front panel switch. Calibrations are read direct on 6-inch dial. Mechanically perfected drive gives positive vernier control. Different Sine-Wave Audio Frequencies, 400, 1,000 and 5,000 cycles. Any one of these Audio Frequencies may be used to modulate the R.F. Has an improved electron-coupled oscillator circuit for the A.F. section. Modern design full-range attenuator. This instrument has a heavy gauge bright metal panel finished in 3 colors. Housed in a streamlined shielded cabinet. For 105-115-volt 60-cycle A.C. operation. Artificial leather covered case. Size: 14x6x11 in. A good signal generator at a price every service man can afford. Only a small amount down and a few dollars monthly. See Page 2 for complete details. Shipping weight, 10 pounds.

**\$15.85**  
Complete

57 NP 010790—Model 4103. . . . \$15.85



**Million Model Q**

Skillfully engineered signal generator. Capable of producing an artificial signal that can be varied in Amplitude from a few Microvolts to approximately 100,000 Microvolts. Uses separate coils individually trimmed, eliminating dead spots on any range. It has 6 bands covering 60 K.C. on harmonics. Large scales—a total of over 40 inches—make close readings easy. Separate audio output available through regular attenuator and multiplier for Public Address and audio work. The R.F. output is controlled by a complete resistance attenuator of the double range type; one control 0-100 and a multiplier having steps of 1, 10, 100, 1000. Units are in approximate microvolts. Case size 10x10x7 inches. Designed for operation on 115-volt 50-60 cycle A.C. This is an improved version of last year Model OD. Shipping weight, 10 pounds.

**\$29.95**  
Complete

57 NP 010795—Model Q. . . . \$29.95



**Signal Generator Hickock Model 188**

This fine signal generator is specifically designed for the advanced servicing of both Frequency and Amplitude Modulation receivers. It costs a little more than ordinary service oscillators, but if you will read the 12 points below, you will quickly see that the Model 188 is not an ordinary instrument.

**\$62.92**  
Cash  
**\$14 Down**

- 1 Wide Band Frequency Modulated R.F. Output. 750 K.C. Sweep, 100 K.C. to 133 Megacycles. (Modulated internally at 60 cycles for visual alignment of wide band frequency modulated and television) R.F. and I.F. Stages.
- 2 Frequency Modulated R.F. Output (Frequency modulated standard sweep—150 K.C.) 100 K.C. to 133 Megacycles. Modulated internally at 400 cycles, or can be modulated from external source from 10 to 15,000 cycles.
- 3 Frequency Modulated R.F. Output (30 K.C. sweep standard for visual alignment of amplitude modulated receivers) from 100 K.C. to 110 Megacycles.
- 4 Amplitude Modulated R.F. Output (400 cycles) 100 K.C. to 110 Megacycles, (or can be externally modulated from 50 to 15,000 cycles).
- 5 Unmodulated R.F. Output 100 K.C. to 110 Megacycles. Four crystal controlled outputs, accuracy within .01%.
- 6 100 K.C. Modulated (400 cycle)—100 K.C. to 15,000 K.C.
- 7 100 K.C. Unmodulated—100 K.C. to 15,000 K.C.
- 8 1000 K.C. Modulated (400 cycle) 1000 K.C. to 100 Megacycles.
- 9 1000 K.C. Unmodulated—1000 K.C. to 100 Megacycles.
- 10 100 to 10,000 Cycle Variable Audio Frequency Output.
- 11 400 Cycle Fixed Audio Output.
- 12 Synchronized Sweep Voltage for Oscillograph use.

Self-contained Power Level Meter. Three Ranges. —10 to +6, to +22, +22 to +38 db, and 0/3.5/20/140 volts. Seven Fundamental Continuously Variable R.F. Ranges with accuracy better than 1/2%. 100 K.C. to 300 K.C., 300 K.C. to 850 K.C., 850 K.C. to 2.6 M.C., 2.6 M.C. to 8.0 M.C., 8.0 M.C. to 24.0 M.C., 24.0 M.C. to 60 M.C., 60 M.C. to 110 M.C.

Two Negative Resistance Audio Frequency Oscillators. 400 cycles, fixed and 100 to 10,000 cycle variable. Accuracy approximately 5%. Output voltage continuously variable from 0 to 1.0 Volt.

All coils but 60 to 110 M.C. are High "Q" iron core type permeability and capacity tuned. Each oscillator comes completely equipped and supplied with all necessary connecting cables. 27-page manual furnished with each signal generator. Shipping weight, 26 pounds.

57 NP 017938—Model 188. . . . \$62.92



**Radio City Model 702**

Signal Generator with extremely wide wave coverage continuously variable from 95 kilocycles to 100 megacycles. 5 fundamental bands include 95 K.C. to 25 M.C. Accurately calibrated and directly or by a 5 to 1 ratio planetary drive. Output can be modulated or unmodulated at will. 30% modulation at 400 cycles, sine wave from self-contained independent, 400 cycle circuit. This 400-cycle supply is available for external use, 6-volt maximum. Provision for applying external source of modulation. Can be used with outside sweep circuit and wobulator for all oscillographic wave analysis. Separate shielding of coil assembly, attenuator and R.F. circuits. Attenuation in approximate microvolts by five-step ladder attenuator, 1 to 500,000. Shorting of all coils not in use prevents dead spots, etc. A.C. operated. Shipping weight, 14 pounds.

**\$27.39**  
Complete

57 NP 018826—Model 702 . . . . \$27.39



**Supreme Model 571**

Signal generator designed to reduce to a minimum, drift of oscillator frequency caused by change in line voltage humidity and temperature. Accuracy is within 1/2 of 1% on any frequency. Produces 6 types of signals—all hum free—(1) Straight C.W., (2) 400-cycle, 30% standard audio modulated R.F., (3) 4 400-cycle 75% high level audio modulated R.F., ranges from 65 K.C. to 20.5 M.C. on fundamentals and to over 60 M.C. on harmonics. Only 2 basic scales. Uses an electron coupled oscillator circuit with air-dielectric condensers and iron core coils resulting in a guaranteed accuracy of within 1/2 of 1%! Practically free from frequency drift. Dual ratio dial. Illuminated scale. Two modulation levels (30% and 75%) 400-cycle note has no frequency change from one type signal to another. High R.F. output. Hardwood case. For 110-volt, 60-cycle A.C. Shipping weight, 19 pounds.

**\$43.07**  
Cash  
**\$10 Down**

57 NP 018845—Model 571 . . . . \$43.07

## Precision

**Model E-200**

**\$39.15**  
Cash

Only  
**\$8 Down**



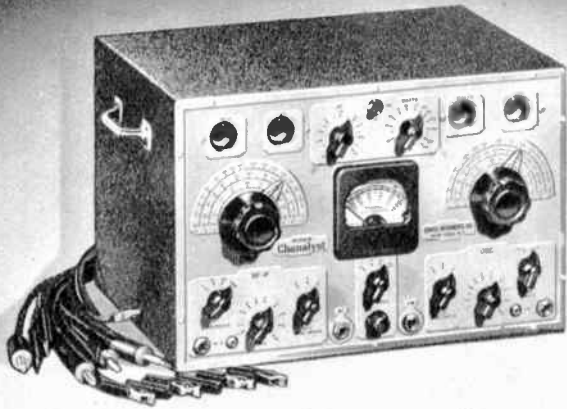
## Aligns Receivers Under Normal Conditions

Laboratory type signal generator for all A.M., F.M., and Television receiver requirements. Gives you "servicing by signal substitution" . . . the new modern dynamic speed approach to receiver alignment and adjustment problems. Eliminates the need of aligning AVC receivers with the volume control set at maximum, and signal generator at minimum. Supplies its own AVC voltage, and accordingly assures accurate and efficient tuned circuit adjustment. Also specially designed for servicing by Signal-Substitution . . . the new dynamic speed approach to receiver adjustment and alignment problems. Provides full frequency coverage from 90 K.C. to 88 M.C. in six bands. Large full vision 6 1/2-inch dial. Stable electron-coupled oscillator circuit. Coaxial out-put cable. 400 cycle sine wave oscillator independently controlled. Calibrated R.F. attenuation. Variable modulation control, calibrated to provide 0 to 100% modulated R.F. signal. For 110-volt, 60-cycle A.C. Black ripple, steel case. Size 12x10 1/2 x 6 inches. Shipping weight, 19 pounds.

57 NP 018393—Model E 200. . . . \$39.15

We reserve the right to change our prices on service instruments whenever increasing costs require us to do so. See notice on Page 2 for details

# Dependable Condenser and Set Analyzers



**Rider Chanalyst** **\$107.50**  
Cash  
\$24.00 Down

Offers an easier and more accurate method of checking radio receiver troubles. No matter how complicated the circuit . . . regardless of the number or types of tubes used, the Chanalyst quickly and correctly diagnoses the problem.

Testing with the Chanalyst is done without the use of adapters or plugs. It will trace signal from antenna to speaker in RF, IF, or AF stages . . . indicating where signal weakens, dies or distorts, or where it takes on hum. Checks operating voltages at any point without loading the circuit. Checks frequency output of the oscillator section in supers. Shows wattage consumption of the set during operation. Locates troubles in intermittent receivers by means of dividing the set into five basic sections . . . each section with its own cathode-ray tuning eye on the Chanalyst panel. Size 14½x16x9 inches. Comes complete with 12 tubes. Like everything else in this catalog the Rider Chanalyst is available on Easy Terms. Turn to Page 2 and see for yourself how easy it is to own this superior instrument.

57 NP 018371—Shipping weight, 28 lbs. . . . \$107.50



**Readrite Model 432 A-742** **\$289.60**  
Complete

Combination Tube Tester and Volt-Ohm-Milliammeter. All the advantages of separate units, plus the convenience of having both instruments combined in a single case. Lifetime Red Dot Triplett meter.

Has Model 432-A Tube Tester that accurately tests all receiving type tubes now in general use. Volt-Ohm-Milliammeter section is a separate panel with range selector, switch, ohmmeter zero adjuster, jacks and Precision 3-inch indicating instrument with a sensitivity of one mil. Volt-Ohm-Milliammeter ranges are: A.C.-D.C. Volts 0-10-50-250-500-2500 (D.C. at 1000 ohms per volt); D.C. Milliampers 0-1-10-100; Resistance .5 to 500 with 25 ohms at center scale; 0-100,000 ohms and 1½ megohms. Ohmmeter is battery operated. Batteries included.

Circuit is more accurate than ordinary ohmmeter power supply circuits. Black artificial leather case with handle. 13x10½x7 in. Silver color and black panels. Large compartment for accessories and tools. For Sears Easy Payment Terms, see Page 2.

57 NP 018884—Shipping weight, 20 lbs. . . . \$28.96



**American Model 4102** **\$298.50**  
With Cover

Combination Tube Tester and Radio Analyzer. Tests all tubes from 1.4 to 117 Volts, including 4, 5, 6, 7, 7L, octals, loctals, Bantam Jr., Peanut, Single Ended, floating filament, Mercury Vapor Rectifiers, RCA Midget loctals, etc. All tests for quality are read directly on the Good-Bad scale. Also: 4 Resistance Ranges; 0/300/30,000/300,000/9 Megohms. 6 D.C. Volt Ranges; (at 5000 ohms per volt) 0/3/10/50/250/500/5000 Volts, 4 A.C. Ranges; (at 1200 ohms per volt) 0/15/150/1500/3000 Volts, 4 D.C. Ma. Ranges; 0-200 Micro-Amps. 0-2 Ma./0-20 Ma./0-200 Ma., 2 D.C. Amp. Ranges; 0 1 Amp./10 Amp., 2 Capacity Ranges; .0005-.05-.05-50 Mfd., 2 Inductance Ranges; 1-70/70-10M Henries, 4 Decibel Ranges; -20+18 +38-58+88 D.B., 4 Output Ranges; 0-15/0-150/0-1500/0-3000 Volts, 4 Power Output Ranges; watts based on 6 M.W. at 0 db. Hardwood cabinet and cover; size 5½x13¼x14¼ in. Operates on 90-125 volts 60 cycle A.C. With test leads. This analyzer is an excellent value. Not equal to our higher priced instruments but well worth this low price.

57 NP 017937—Shipping weight, 17 lbs. . . . \$29.85



**Clough Brengle Bridge—Model 230** **\$47.50**  
Cash  
\$10.00 Down

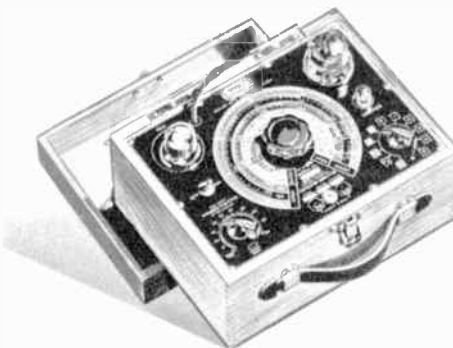
Measures capacity and resistance accurately. Capacity range 2 mfd. to 200 Mfd. Electrolytic condensers polarized during capacity tests. A full wave rectifier supplies D.C. continuously adjustable up to 500 Volts for application to condenser under test. New scale eliminates computations in leakage tests—direct reading on leakage-per-Microfarad dial. Measures resistance 2 ohms to 20 megohms. Insulation resistance measurements 0 to 2500 megohms.

Welded steel case and lid with slip hinges. Case finished in black wrinkle; Panel in nickel and black. Size with lid closed 10x8½x7 inches. For 115 volt 50-60 cycle A.C. operation.

57 NP 018370—Shipping weight, 15 lbs. . . . \$47.50

Prices on testing equipment are set by the manufacturer. We therefore cannot guarantee prices in this catalog for any definite time. See Page 2 for further details.

34 . . SEARS, ROEBUCK AND CO.



**Solar Analyzers** **\$25.48**  
Model CC-1-60

Measures capacity from .00001 to 70 mfd., power factor, resistance up to 2 megohms, insulation resistance, and detects defective condensers. Instrument is also a continuity meter and visual bridge balance. All readings direct and independent of line voltage variations. No headphones or meters are required. For 110-volt, 60-cycle A.C. Requires 1-6E5 and 1-1V tube. Shipping weight, 9 pounds.

57 NP 018377—CB-1-60 with tubes. . . . \$25.48

#### Model CC-1-60

Similar to above but measures resistances up to 2 megohms and capacities from .00001 to 800 mfd. Power factors of condensers up to 50%; Insulation resistance to 1,000 megohms. D.C. test voltages available up to 600. Tubes required 1-80, 1-6E5. For 110-volt 50-60 cycle A.C. Shipping weight, 10 lbs.

57 NP 017975—With tubes. . . . \$31.85



**Cornell-Dubilier Compact Bridge** **\$12.37**  
Model BN

Measures all types of condensers between .0001 and 50 mfd. Indicates power factor of electrolytic condensers. Useful as a continuity meter and for locating opens, shorts, high or low capacity, high power factor, etc. Direct-reading ranges are calibrated directly in microfarads. Supplied with test leads and instructions, less tubes (uses 12A7 and 6AF6G). For 110/120-volt, 60 cycle A.C. Size: 3¼x5x3 in. Ideal for servicemen because of its compact size.

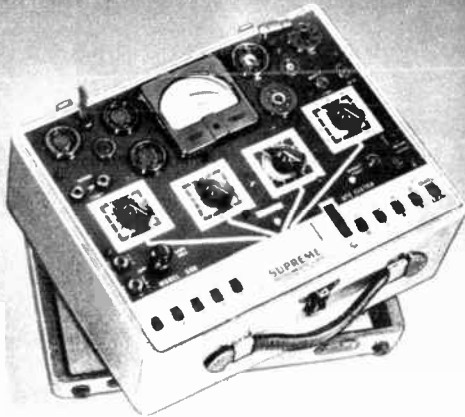
57 NP 017985—Model BN. Shpg. wt., 3 lbs. . . \$12.37

#### Cornell-Dubilier—Model BF50

Measures capacity of paper, mica, electrolytic condensers from .00001 to 240 mfd.; power factor up to 50%. Resistance up to 1500 meg. Requires 12A7 and 6E5 tubes.

57 NP 010649—Shipping weight, 11 lbs. . . . \$31.12

**For Easy Terms  
See Page 2**



**Supreme  
Model 599** **\$4263**  
Cash  
\$9.00 Down

Includes all the features of the Supreme Model 589 tube and battery tester. In addition, it provides the following ranges: 0.2 to 150 D.C. Volts—5 carefully selected ranges—0.6 15/150 600, 1500 volts, 1000 ohms per volt Standard sensitivity. 0.2 to 600 A.C. Volts—4 A.C. ranges—0.6/15 150 600 volts. Rectifier guaranteed with instrument and fully protected from overload damages. 0.2 M.A. to 600 M.A.—3 direct current ranges 0.6/60/600 allow measurement of screen, plate, "B" supply and D.C. filament loads. 0.2 to 600 output Volts—0.6 15 150/600—ideal for alignment. No button to hold down—no external condenser necessary. 0.1 ohm to 20 megohms 4 ranges 0.2/20/20,000 ohms, 0.2/20 megohms. A low range at high current with 3.5 ohms center scale. Brown luggage type case, size 11 1/4 x 9 1/4 x 5 3/4.

57 NP 017941—Shipping wt., 16 lbs. . . . \$42.63  
57 NP 017578—Counter model with 7-inch meter. Shipping wt., 20 lbs. . . . \$53.85



**Solar  
CE Exam-eter** **\$4400**  
Cash  
\$8.50 Down

The only capacitor analyzer available having all these features! Quick-Check dynamic test. For Shorts, Opens, High R.F. Impedance, Intermittents. Tests can be made without removing capacitors from receiver. Capacity Bridge: Measures from 10 mmf. to 2000 mf. Resistance Bridge: Measures resistance from 50 ohms to 7.5 megohms. Megohm Meter. Measures insulation resistance directly from 2 to 10,000 megohms. Milliammeter. Measures leakage to 50 milliamperes at 0-550 V.D.C. Power Factor: Measures to 50% P.F. D.C. Vacuum Tube Voltmeter: Measures A.C. Voltage 0-30 V. A.C. Continuously Variable D.C. Voltage Supply: Provides 0 to 550 V. D.C. Continuity Checker. Tests A.C. Motor Starting Capacitors. Tests Fence Control Capacitors to 2000 Mfd. Size 9 1/2 x 11 1/2 x 5 1/2 in. high. For Easy Terms see Page 2 for details.

57 NP 012780—Shipping weight, 11 lbs. . . . \$44.00

**Radio City  
Model 802-A**

**\$46<sup>99</sup>**  
Cash  
\$10.00 Down

Has 4 1/2-inch meter accurate within 2%. Includes decibel measurements and condenser leakage tests. Supplied complete with tube, battery and test leads. Tube tester section tests all new and old tubes and provides for all heater or filament voltages up to full line voltage. Tests all ballast tubes. Hot interelement short and leakage tests on each individual element. Individual tests at each section of multi purpose tubes, full wave rectifiers, duo, diodes, etc. Line voltage regulation from 103 to 135 volts. Noise test. Multi-tester provides Four Range D.C. voltmeter 0/10/50/500/1000 at 1000 ohms per volt sensitivity. Four Ranges A.C. volt meter 0/10/30/500/1000. Four Range D.C. milliammeter 0/1/10/100/1000. D.C. Amperes 0/10. Four Range Ohmmeter 0/500/5000/1000,000/10,000,000. Low ohm range has center of scale at 5 ohms and each of the first ten divisions read 0.1 ohm. Four Range D.B. Meter 8 to 15; 15 to 29; 29 to 49; 32 to 55 D.B. Four Range output meter. Artificial leather case size 12x12 1/2 x 6 in. For 110-volt 60-cycle A.C.

57 NP 018835—Model 802A. Shipping weight, 18 lbs. . . . \$46.99  
57 NP 018829—Model 802. Same as 802A except without Model 506 plug-in analyzer unit in cover. Shpg. wt., 17 lbs. . . . \$33.27  
57 NP 017945—Model 803. Same as Model 802 except with roll tube chart. Shipping weight, 18 pounds . . . \$39.15  
57 NP 017946—Model 803A. Same as Model 802A except with roll tube chart. Shipping weight, 19 lbs. . . . \$52.87

**Triplet  
Model 1183**

**\$53<sup>75</sup>**  
Cash  
\$10.50 Down

Volt-Ohm-Milliammeter, Tube Tester, Free Point Tester. A.C.—D.C. Volts 0 10 50 250 1000 at 10,000 ohms per volt D.C., 2000 ohms per volt A.C. A.C. Voltage ranges may be used for output readings. D.C. Milliampers 0 1 10 50 250. Resistance 0-500 low Ohms, shunt circuit; 0-1500 and 0-150,000 Ohms, 0-1.5 Megohms, series circuit. Filament voltage 1.1 to 110.

Neon Shorts Test shows slightest interelement shorts and leakages while cathodes are hot. Separate plate tests for diodes and rectifiers. Separate Line Voltage Meter. Flexible Tube Tester Switching, lever type, gives individual control for each tube prong. Operation greatly simplified. Set the switch according to instructions appearing above each row on the roll chart. Only three lever switch settings required for most tubes; never more than four. Speed Roll Chart can be spun from one end to the other in less than four seconds. Separate columns for odd and even number tubes, cutting in half length of the chart. New paper charts easily attached, or the entire chart mechanism can be replaced. Red Dot Lifetime Guaranteed 4-inch indicating instrument. Complete Free Point Tester makes all series and parallel meter connections. Has sockets for all tubes; (plug adapters must be purchased separately for loktals, Bantam Jr., Miniatures and Midgets if desired). Heavy metal case with brown suede-effect baked enamel finish. Size 14 3/8 x 7 1/8 x 1 1/8 in. Leather strap handle. Snap-on metal cover.

57 NP 017933—Shipping weight, 25 pounds . . . . . \$53.75

**Precision  
Series 920**

**\$54<sup>75</sup>**  
Cash  
\$11.50 Down

A complete service laboratory! Precision engineered Dynamic Mutual Conductance type tube and battery tester with complete A.C. and D.C. Multi-Range features. Also provides for ballast unit tests, condenser testing and neon continuity facilities.

**Tube and Battery Analyzing Features**

Dynamic Tube Tester has an exclusive Precision engineered circuit which, in one operation, effectively tests all radio receiving tubes for both Dynamic Mutual Conductance and Cathode Structure. Tests all tube types and filament voltages from 1.4 to 120 volts—Tests loktals, Bantam Junior and Button 7 Pin miniature hearing aid and pocket radio tubes, Single-ended, Television and F.M. Amplifiers, Regular Octals (MG, G, GT and metals), Spray-Shield and Glass types. Also gas type rectifiers, ballast tubes, and pilot lamps. Automatic push button system. Dual free point filament terminal selection. Visible filament continuity tests. Specific individual loads and voltages: (Control Grid, Screen, Plates, etc.) applied to respective elements of tube under test. Variable plate voltages satisfy all tube requirements from 45 to 300 volts. Varying AC Signal applied to control grids. Meter reads in plate circuit. Hot Cathode leakage and Interelement short tests. Noise Test pin jacks for ear phone or amplifier connection. Micro-line adjustment. Exclusive battery testing circuit tests all popular A, B, and C dry batteries under actual load conditions. Built-in double window roller tube chart.

**Set Analyzing Features**

Six AC and Six DC Voltage Ranges at 1000 ohms per volt: 0-12, 60 300 600 1200 3000 volts. Five DC Current Ranges: 0-1.2; 0-12; 0-129; 9 600 MA; and 0-12 Amperes. Four Resistance Ranges: 0-400 100,000 ohms, 0-1-10 Megs. All ohmmeter ranges powered by self-contained supply. Six Decibel Ranges from -10 to +64DB. Six Output Ranges: Same as AC Voltage Ranges.

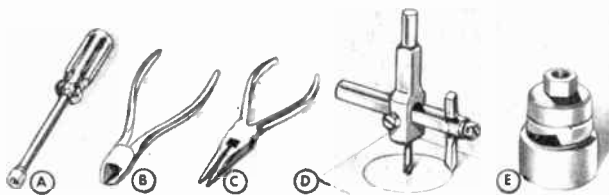
Master Range Selector System permits simplified speedy measurements and rapid selection of all ranges. Large 4 1/2 inch modern precision square type 400 micro-ampere meter. Ruggedly constructed to withstand rough handling. Large easy reading scales and numerals. Condenser leakage tests; paper condensers tested by sensitive neon method. Leakage measurements on all types of electrolytic condensers read directly on meter in terms of current per microfarad. Shunts Wire-Wound to 1% accuracy on impregnated noise-tight lobbins. Metalized multipliers matched to 1% accuracy. Accuracy of the AC voltage and decibel ranges is closely maintained through two individual calibrating controls, adjusted and sealed against laboratory standards. AC accuracy 3%, DC accuracy 2%.

57 NP 018388—Model 920MCP. (See illustration (A) at right). Portable analyzer with open type metal case. Black ripple finish. Size 12x10 1/2 x 6. Complete with instructions, battery and test leads. Shipping weight, 22 pounds . . . . . \$54.75

57 NP 018386—Model 920P. (See illustration (B) at right). Analyzer with portable type hard-walled carrying case. Removable cover and tool compartment. Walnut finish. Size 12x13x6. Complete with battery and test leads. Shipping weight, 20 pounds . . . . . \$58.75



# Get Everything You Need Now! See Page 2 for Easy Terms



## Shock Proof Socket Wrenches

- A** Socket wrenches with transparent amber shockproof handles. Blades of hardened tool steel. Sizes listed will handle all standard nut sizes used in radio work. Shpg. wt., ca., 8 oz.
- |  |   |
|--|---|
| 57 NP 17416— $\frac{3}{16}$ in. .... 40c   | 57 NP 17420— $\frac{3}{8}$ in. .... 44c |
| 57 NP 17417— $\frac{1}{4}$ in. .... 40c  | 57 NP 17421— $\frac{1}{2}$ in. .... 44c |
| 57 NP 17418— $\frac{5}{16}$ in. .... 40c   | 57 NP 17422— $\frac{1}{2}$ in. .... 44c |
| 57 NP 17419— $\frac{1}{2}$ in. .... 40c  |   |
| 57 NP 17423—Complete set of above 7 sizes. Shipping weight, 2 pounds 4 ounces. .... \$2.15 |   |

## Craftsman Diagonal Pliers

- B** Vanadium steel. Hand honed cutting jaws. Highly polished. Be sure to state length wanted.
- |  |
|--|
| 9 NP 4506—6-inch. Shipping weight, 6 ounces. Each. .... \$1.59 |
| 7-inch. Shipping weight, 8 ounces. Each. .... \$1.85           |

## Craftsman Long Nose Pliers

- C** Drop forged from Vanadium steel. Polished slender pointed nose. Milled jaws. Length 6 inches.
- |  |
|--|
| 9 NP 4499—Shipping weight, 6 ounces. Each. .... \$1.35 |
|--|

## I. C. A. Circle Cutter

- D** Cuts round holes in bakelite, masonite, wood, hard rubber, aluminum, tin, sheet metal. Adjustable for holes  $\frac{3}{8}$  inch to 8 inches in diameter. For use in slow speed electric drill or ordinary hand brace.
- |  |
|--|
| 57 NP 10450—Shipping weight, 2 pounds. Each. .... \$2.91 |
|--|

## I. C. A. Shearing Punches

- E** Puts round socket and condenser holes in radio chassis bases in a hurry. Shearing action eliminates hammering. Only other tool needed is a wrench and  $\frac{3}{8}$ -inch drill for pilot hole. Made of high grade tool steel. Will last for years. Shpg. wt., ea., 2 lbs.
- |   |   |
|---|---|
| 57 NP 12990— $\frac{3}{8}$ inch. \$1.59                           | 57 NP 12993— $\frac{1}{4}$ inch. \$1.79 |
| 57 NP 12991— $\frac{1}{2}$ inch. 1.79                             | 57 NP 12994— $\frac{1}{2}$ inch. \$1.99 |
| 57 NP 12992— $\frac{3}{4}$ inch. 1.79                             |   |
| 57 NP 12995—Replacement Screw for all sizes. Shpg. wt., 4 oz. 21c |   |

## "ATR" Inverters—D.C. to A.C.

With an ATR Inverter, it is possible to obtain 110-volt 60-cycle A.C. from 6-volt batteries. 32-volt farm plants, or 110-volt D.C. systems. These units are designed especially for operating standard A.C. radios, P.A. systems, amplifiers, etc. Plug-in vibrator has ten  $\frac{1}{4}$ -in. diameter contacts. Features include: 4-point voltage regulator, fuse protection on-off switch, metal case. Size:  $7\frac{3}{4} \times 8\frac{1}{2} \times 4\frac{1}{2}$  inches.

### Radio Type with Filter

Catalog Number	Input Volts	Watts Cont.	Inter.	Shipping Weight	Price Each
57 NP 017987	6	75	85	17 pounds	\$15.26
57 NP 017988	12	100	125	17 pounds	15.26
57 NP 017989	32	100	150	17 pounds	15.85
57 NP 017990	32	180	200	27 pounds	22.05
57 NP 017991	110	150	250	17 pounds	15.85

## ATR "B" Battery Eliminator

Eliminates expensive "B" batteries. Operates on flashlight cells or storage battery in car. Delivers 90 volts D.C. at 10 milliamperes. Cuts battery investment one-sixth. Smaller than equivalent "B" batteries—weighs about  $\frac{1}{2}$  less. Unit delivers 90 volts at 10 milliamperes. Requires five flashlight cells in series.

- B** 57 NP 17919—Unit less case for flashlight cells. Size,  $5\frac{3}{4} \times 2\frac{1}{2} \times 1\frac{3}{4}$  in. Shipping weight, 6 lbs. .... \$5.46
- A** 57 NP 17914—Container for 5 flashlight cells. Size  $5\frac{1}{2} \times 4\frac{1}{2} \times 1\frac{3}{4}$  in. Less cells. Shipping weight, 1 lb. 8 oz. .... 1.37

## Eicor Generators

**300-Watt Generator**—Johnson 4-cycle  $\frac{3}{4}$ -H.P. gasoline motor. Cast iron base. Fuel capacity, 1 gallon. Speed 1800 R.P.M. Push Button starter if 16-volt storage battery is provided for starting. Delivers 300 watts at 110 volts, 60 cycle A.C. and 150 watts at 60 volts D.C. (not simultaneously). Shipped from factory in Chicago, from where you pay freight. Shpg. wt., 95 lbs.

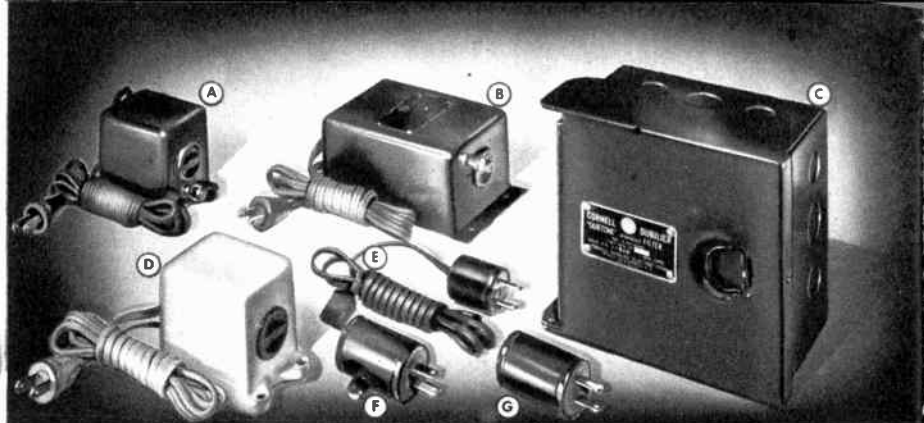
57 NPM 12824F ..... \$71.50

## 450-Watt Model

Has 1 horse power Johnson engine with float feed carburetor. Shpg. wt., 103 lbs.

57 NPM 12825F ..... \$108.50

36 .. SEARS, ROEBUCK AND CO.



## Cornell-Dubilier "Quietone" Interference Filters

- D** Model IF-19. An efficient capacitive-inductive type filter for use where interference is severe. Has binding post for ground connection. Mounting ears provided. Bakelite case, state walnut or ivory color. 110 V. AC-DC at 5 amps. Size:  $4 \times 2\frac{1}{2} \times 2\frac{1}{2}$  inches.
- 57 NP 10600—Shpg. wt., 4 lbs. Each. .... \$2.55
- B** Model IF-18. An efficient all-wave, capacitive-inductive, sectional-band type filter for use in connection with electrical appliances when interference conditions are severe. Has binding post for making ground connection. In walnut bakelite case. 110 V. AC-DC at 5 amps. Size:  $5 \times 3\frac{1}{2} \times 2\frac{1}{2}$  inches.
- 57 NP 10601—Shpg. wt., 6 lbs. Each. .... \$3.18
- C** Model IF-7A. An ideal filter designed to block severe radio interference caused by motors, generators, elevators, diathermy machines, oil burners, etc. Especially suitable for factory, office, and apartment building installations. This Quietone consists of low-loss coils and highest quality capacitors that will correct noise conditions in both Broadcast and Short-Wave receivers. A heavy-duty, capacitive-inductive filter for single phase, 110-120 V. AC-DC at 5 amps. Housed in a heavy steel cut-out box, with hinged cover, finished in gray enamel. Size:  $6 \times 6 \times 4$  inches.
- 57 NP 10602—Shpg. wt., 9 lbs. Each. .... \$4.77

- A** Model IF-21. All-wave capacitive-inductive filter for electric shavers, barber clippers, etc. 110 V. AC-DC at 1.6 amps. Walnut finish. Size:  $4 \times 2\frac{1}{2} \times 2\frac{1}{2}$  inches.
- 57 NP 10603—Shpg. wt., 2 lbs. 8 oz. .... \$1.59
- F** Model IF-6. For all types of home electrical appliances where interference is of moderately low intensity. Installed between appliance and power line with short return lead which reduces radiation. 110 V. AC-DC at 5 amps. Walnut finish. Size:  $2 \times 1\frac{1}{2}$  in. diameter.
- 57 NP 10604—Shpg. wt., 1 lb. Each. .... 79c
- G** Model IF-4. Ideal for use with small radio receivers, such as AC-DC midget sets, etc., where noise level is not too severe. Connects in power line between the radio receiver plug and wall receptacle. 110 V. AC-DC at 5 amps. Attractive walnut finished case. Housed in metal shell. Size:  $2 \times 1\frac{1}{2}$  inches diameter.
- 57 NP 10605—Shpg. wt., 1 lb. Each. .... 48c
- C** Model IF-5. For small appliances such as food mixers, hair dryers, etc., where radio interference is of low intensity. 110 V. AC-DC at 5 amps. Walnut finish.
- 57 NP 10606—Shpg. wt., 1 lb. Each. .... 48c
- E** Model IF-22. Filter for 110 V. shavers. Shipping weight, 1 pound.
- 57 NP 10607—For Schick, Knapp. .... \$1.12
- 57 NP 10608—For Packard, Remington-Rand, etc. .... \$1.12



## Cabinet Repair Kit

**A** A complete kit that will meet any emergency. You can repair Wood cabinets, Plastic and Bakelite cabinets, knobs, etc. On dents or nicks, use the shellac sticks and melt them in with the spatula and alcohol lamp. On light scratches use the General Skratz Stik, or the stains. Kit comes in a handy black, artificial leather finish box. Included 9 shades of stick shellack, 1 bottle each of light and dark stain, 1 bottle metal shading varnish, 1 bottle of polish, 1 Skratz Stik, 1 alcohol lamp, 1 spatula, 2 touch-up brushes, steel wool, sand paper, rubbing felt, rubbing fluid and wiping cloth. Directions included.

57 NP 10470—Shipping weight, 2 pounds. .... \$1.91

## General Skratz Stik

**C** Did you ever accidentally scratch a Radio Cabinet? You can avoid many embarrassing cases like this if you have in your pocket a G-C Skratz Stik. Comes in a handy case ... easy to carry.

57 NP 10471—Shpg. wt., 4 oz. Each. 21c

## Walsco Unibel

**E** An adjustable dial belt that is a great time and trouble saver for radio men. It comes open! Can usually be installed without taking dial mechanism apart. Can't slip or stretch. Full instructions with each belt. Shipping wt., 6 oz.

57 NP 10887—Adjustable from $6\frac{3}{4}$ to 10 inches. .... 24c
57 NP 10885—Adjustable from $10\frac{1}{4}$ to $13\frac{3}{4}$ inches. .... 24c
57 NP 10880—Adjustable from $14\frac{1}{2}$ to $17\frac{1}{2}$ inches. .... 27c

## Dial Cable on Spools

**D** 42 strands phosphor bronze over linen thread center. Finest quality.

57 NP 10472—25 ft. spool. Shipping weight, 1 pound. .... 68c
25-Ft. Spool Heavy Braided Linen Cable. 57 NP 10473—Shipping wt., 1 lb. .... 68c

## Radio Chemical Kit

**B** Portable chemical kit to carry with you. Complete with 8 chemical compounds in a neat artificial leather pocket case. Includes the following 8 necessities: Service Cement (for radio and speaker repairs), Rubber Drive Cement (for cementing rubber dial drives to shafts), Carbon-X (for noisy volume controls), Lube-Rex (radio contact lubricant), Scratch Polish, Non-Slip Compound (for dial drives), Dial Oil, and Contact Cleaner. A handy applicator is attached to the cap of each container to make it easy to use.

57 NP 10474—Shipping weight, 2 lbs. .... \$1.02

## Walsco Staple Driver

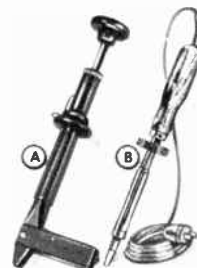
**A** Ideal for Radio Servicemen, Public Address and Inter-com men, Electricians and Telephone men. Automatically sets staples in place and drives them home with one gentle stroke. Adjustable fitting regulates depth staple is driven into material. Magazine holds one clip of 23 staples. Shipping weight, 1 lb. 8 oz.

57 NP 10881—Driver and 1 box of staples. .... \$3.33
57 NP 10882—Box of 1000 staples. Shipping wt., 1 lb. .... 95c

## Craftsman Soldering Iron

**B** Adjustable  $\frac{3}{4}$ -in. solid copper tip is 3 inches long. 2-year guaranteed 75-watt element is wound on hollow core. Handle kept cool by baffle plates. Chromium plated finish. Rubber covered cord and plug. 110-120-volt current. Approved by Underwriters.

9 NP 5411—Shipping weight, 1 pound 8 ounces. .... \$2.19
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# AUTO RADIO VIBRATORS



## Guaranteed for One Year

ATR and POWERMASTER Vibrators will meet practically every replacement need. If you can not identify the unit needed from either of the lists below, write our Personal Service Department giving make and model of your old vibrator. We will quote you the price of the correct replacement. Original equipment Vibrators made by Mallory have part numbers 200 lower than the replacement numbers given here. Example Original 31, replacement 221.

Shipping weight of Vibrators, each, 10 ounces.

### Interchangeability Chart

Powermaster Catalog No.	Replaces Mallory Numbers	Replaces Radiant Numbers
<b>57 NP 12700</b>	221, 292	2742, 2743, 2747, 2819, 2867, 3300, 3313, 3375, 3880
<b>57 NP 12702</b>	220A, 220B	3442
<b>57 NP 12703</b>	251, 253	3264, 3399, 2317, 4301, 4313
<b>57 NP 12709</b>	294, 508P, 600, 650, 901M, 902M, M111	3782, 3806, 5300, 5305, 5310, 5325P, 5340M, 5341M
<b>57 NP 12715</b>	250, 282P, 500P	3320, 5322
<b>57 NP 12717</b>	294C, 602, 651, 652, 852	5303, 5339
<b>57 NP 12724</b>	273	3319
<b>57 NP 12726</b>	273	3401, 4613, 4614
<b>57 NP 12727</b>	245, MU4	4402, 5409
<b>57 NP 12730</b>	246, 523, 951P, M116	4416, 4612, 5411, 5420P, 5421
<b>57 NP 12733</b>	249, 511	5406
<b>57 NP 12739</b>	222	3308, 3315

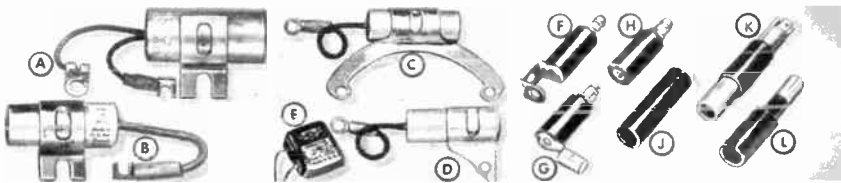
## Ray-O-Vac Dry Batteries

Scientifically designed... made from finest quality materials... and built under rigid laboratory supervision. Heavy gauge, seamless, leak-proof zinc cans of uniform thickness insure longer life. Guaranteed fresh and dependable. Will replace batteries shown below. To order from the table below, find the number of your old battery in the third column. The first column on the same line shows you the catalog number for the replacement battery. Order from Sears and save.

### Replacement Batteries for Radio Test Instruments

Catalog Number	Ray-O-Vac Number	Will Replace Burgess No.	Voltage Taps	Type	Size inches	Shipping Weight	Price Each
<b>57 NP 13109</b>	7 R	Z	1.5	Unit Cell	3/8x1 1/2	4 oz.	\$0.04
<b>57 NP 13115</b>	2 LP	2	1.5	Standard Dry Cell	2 3/8x1 3/16	4 oz.	.10
<b>57 NP 13103</b>	6	6	1.5	Standard Dry Cell	2 1/2x6	2 lbs.	.30
<b>57 NP 13108</b>	49 TC	4 FA	1.5	Clip Terminal "A"	2 3/4x 3/8x4	8 oz.	.28
<b>57 NP 13105</b>	P 94A	4 F	1.5	Two Prong Socket	2 3/4x2 3/8x4	1 lb.	.38
<b>57 NP 13100</b>	531 R	5360	4.5	Screw Term'l. "C"	2 3/8x2 3/8x2 3/8	8 oz.	.28
<b>57 NP 13111</b>	531	432	4.5	Strap Term'l. Flashlight	2 1/2x1 3/8x2 3/8	8 oz.	.20
<b>57 NP 13101</b>	431	422	4.5	Strap Term'l. Flashlight	2 1/2x1 3/8x2 3/8	8 oz.	.20
<b>57 NP 13114</b>	P698-A	2 F 4	6.0	Plug-In "A"	3 3/8x2 3/8x3 3/8	2 lbs.	.77
<b>57 NP 13106</b>	231 W	2370	4.5	Plug-In "C"	4 1/2x1 3/8x3 1/8	1 lb., 8 oz.	.25
<b>57 NP 13110</b>	P 5151	5156 P1	22.5	Plug-In "B" or "C"	4 x2 3/8x3	2 lbs.	.69
<b>57 NP 13104</b>	1151	4136	22.5	Clip Terminal "B" or "C"	3 3/8x2 3/8x2 3/8	1 lb., 8 oz.	.77
<b>57 NP 13112</b>	XN30	Z 30 N	45.0	Screw Term'l.	3 1/2x1 3/8x3/8	1 lb., 8 oz.	1.23
<b>57 NP 13113</b>	P 5303	B-30	45.0	Plug-In "B"	4 1/2x2 3/8x3 3/8	2 lbs.	1.02

Due to circumstances over which we have no control, we cannot guarantee prices in this catalog for any definite time. Read notice on Page 2 for details.



### Auto Filter Condensers

- (A) Two .5 mfd. capacitors in one can. Can grounded. For shunting around generator to render high charging rate. 2 x 3/4 in. **39c**
- (B) Single section units for use on battery side of source of interference. Capacity .5 mfd. size 1 1/2 x 1 1/2 in. **21c**
- (C) Distributor Condenser for 1937 to 1941 Ford V8. **19c**
- (D) Distributor Condenser for 1934 to 1936 Ford V8. **19c**
- (E) 57 NP 12504—Shpg. wt., 4 oz. Each. **19c**

### Vibrator Buffer Condensers

- (E) High quality Buffer Condensers for all replacement purposes. Metal postage stamp type with two insulated leads. Oil filled. 2000 volts peak. Always renew the Buffer Condenser when renewing Vibrator. Shpg. wt., ea., 3 oz.

Catalog Number	Cap. Mfd.	Size, Inches	Price Each
<b>57 NP 12507</b>	.007	1x1 1/2x3/32	19c
<b>57 NP 12508</b>	.008	1x1 1/2x3/32	19c
<b>57 NP 12509</b>	.01	1x1 1/2x3/32	19c
<b>57 NP 12510</b>	.02	1x1 1/2x3/32	19c
<b>57 NP 12511</b>	.03	1x1 1/2x3/32	19c

### Auto Radio Suppressors

- (F) Bakelite encased, carbon type. First quality throughout. Shpg. wt., each, 3 oz **10c**
- (G) 57 NP 12512—Bracket type. **10c**
- (H) 57 NP 12513—Snap-on type. **10c**
- (I) 57 NP 12514—Short Type for V8 and other cars. **10c**
- (J) 57 NP 12515—Cable type. **10c**
- (K) 57 NP 12516—Distributor type with connections on each end. **12c**
- (L) 57 NP 12517—Distributor Type. **10c**



### Wire Wound Suppressors

- Efficiently eliminates motor noises. Does not impair motor efficiency. Only 30 ohm resistance. Shipping weight, each, 3 oz.
- (P) 57 NP 12520—Distributor Type. **30c**
- (R) 57 NP 12521—Elbow Spark Plug Type. **30c**
- (S) 57 NP 12522—Bracket Spark Plug Type. **30c**



- (T) Fuse Retainer. 2-piece Bayonet lock and spring. **5c**
- (U) Antenna Lead-in Connector. Cadmium plated steel. Bayonet lock. **4c**
- (V) Copper Shielding. Individual wires tined. For auto radio installations. Prices quoted are for length of flat wire which forms round tube when opened up. 1/4 inch width flat 1/4 inch. **57 NP 12500**—Shpg. wt., 10 ft., 8 oz. **15c**; 25 feet... **55c**
- (W) Lead-In Adapters. Converts standard lead to Motorola fitting. **57 NP 12997**—Shipping weight, 3 ounces **15c**
- (X) Converts Motorola lead to Delco fittings. **57 NP 12996**—Shipping weight, 3 oz. **15c**
- (Y) Universal Aerial Booster. Designed to increase signal pickup of Auto Sets by better matching between Aerial and Radio. Standard Fittings. **57 NP 12998**—Shipping weight, 4 ounces **26c**

Replacement Vibrator For Make and Model Radio	A. T. R. Catalog No.	Price	Powermaster Catalog No.	Price
<b>ARKVIN</b> 618, 628, 517B, 617B, 627B, 527B	<b>57 NP 12427</b>	<b>\$2.32</b>	<b>57 NP 12727</b>	<b>\$1.67</b>
<b>CHEVROLET</b> 364441, 4036 600153 Series 600133 Series 985100, 985200 985300, 985301 985252, 985254, 985285 985253, 985255, 985283-4	<b>57 NP 12400</b> <b>57 NP 12439</b> <b>57 NP 12426</b> <b>57 NP 12409</b> <b>57 NP 12425</b> <b>57 NP 12417</b>	<b>1.73</b> <b>2.65</b> <b>2.91</b> <b>1.47</b> <b>2.91</b> <b>1.62</b> <b>1.62</b>	<b>57 NP 12700</b> <b>57 NP 12739</b> <b>57 NP 12726</b> <b>57 NP 12709</b> <b>57 NP 12725</b> <b>57 NP 12717</b> <b>57 NP 12717</b>	<b>1.17</b> <b>2.14</b> <b>2.14</b> <b>1.02</b> <b>2.14</b> <b>1.02</b> <b>1.02</b>
<b>CROSLEY</b> 4A1, 5A3, A155 A166, A255, A355, A366, A455, A555 A157, A167, A177 6615, 435, 546, 636	<b>57 NP 12431</b> <b>57 NP 12426</b> <b>57 NP 12409</b> <b>57 NP 12430</b>	<b>2.32</b> <b>2.91</b> <b>1.47</b> <b>2.32</b>	<b>57 NP 12731</b> <b>57 NP 12726</b> <b>57 NP 12709</b> <b>57 NP 12730</b>	<b>1.65</b> <b>2.14</b> <b>1.02</b> <b>1.65</b>
<b>FORD MAJESTIC</b> 40-18805 MAJESTIC 66, 116, 116A, 118	<b>57 NP 12402</b> <b>57 NP 12402</b>	<b>1.73</b> <b>1.73</b>	<b>57 NP 12702</b> <b>57 NP 12702</b>	<b>1.17</b> <b>1.17</b>
<b>MOTOROLA</b> 8-30, 8-40, 8-50, 8-60, 9-29, 9-44, 9-60, 15F, 16-C, 17-D, 17D-A312, 17D-A313, 17D-A314, 17D-A315, 18-0, 25N 34, 35, 45, 50, 60, 65, 70, 80, 90, 8-70, 8-80, 9-69, 19-B, 24K, POLICE 57, 62, 75, 79, 100, 110 Dual 6, Twin 8	<b>57 NP 12403</b> <b>57 NP 12409</b> <b>57 NP 12409</b> <b>57 NP 12403</b>	<b>1.73</b> <b>1.47</b> <b>2.06</b> <b>1.73</b>	<b>57 NP 12703</b> <b>57 NP 12709</b> <b>57 NP 12704</b> <b>57 NP 12703</b>	<b>1.17</b> <b>1.02</b> <b>1.46</b> <b>1.17</b>
<b>PHILCO</b> 1936 and 817, 818, 819 HT1X, T10 920, 921, 922 38-35 (121), 38-40 (121)	<b>57 NP 12410</b> <b>57 NP 12412</b> <b>57 NP 12409</b> <b>57 NP 12430</b>	<b>1.62</b> <b>1.62</b> <b>1.47</b> <b>2.32</b>	<b>57 NP 12710</b> <b>57 NP 12712</b> <b>57 NP 12709</b> <b>57 NP 12730</b>	<b>1.02</b> <b>1.02</b> <b>1.02</b> <b>1.65</b>
<b>RA-VICTOR</b> AR-4229 5M, 6M, 6M2, 8M3, 8M4, 67M1, 67M2, 67M3 M34, M105, M116 M107 (6V) M101 (6V), M104 (6V), M108 (6V) M109, H6	<b>57 NP 12424</b> <b>57 NP 12433</b> <b>57 NP 12424</b> <b>57 NP 12403</b> <b>57 NP 12435</b> <b>57 NP 12409</b>	<b>2.91</b> <b>2.32</b> <b>2.91</b> <b>1.73</b> <b>2.65</b> <b>1.47</b>	<b>57 NP 12724</b> <b>57 NP 12733</b> <b>57 NP 12724</b> <b>57 NP 12703</b> <b>57 NP 12735</b> <b>57 NP 12709</b>	<b>2.14</b> <b>1.65</b> <b>2.14</b> <b>1.17</b> <b>1.98</b> <b>1.02</b>
<b>SEARS-ROEBUCK</b> 7128 (4 PRONG) 4400	<b>57 NP 12409</b> <b>57 NP 12433</b>	<b>1.47</b> <b>2.32</b>	<b>57 NP 12709</b> <b>57 NP 12733</b>	<b>1.02</b> <b>1.65</b>
<b>STEWART-WARNER</b> R112, 1121, 1122, 1123 R118, 1171, 1172, 1181	<b>57 NP 12400</b> <b>57 NP 12409</b>	<b>1.73</b> <b>1.47</b>	<b>57 NP 12700</b> <b>57 NP 12709</b>	<b>1.17</b> <b>1.02</b>
<b>UNITED MOTORS</b> BUICK-OLDS- PONTIAC 4543 393884-5, 405045 405046 Series 544267 Series 980507-9, 980525-6, 980529, 985300 364441, 980393 980441, 980445, 980459 982126, 982127, 982161, 983679 985100, 985200 985252, 985254, 985285, 98640-3, 982083 985425	<b>57 NP 12431</b> <b>57 NP 12426</b> <b>57 NP 12426</b> <b>57 NP 12426</b> <b>57 NP 12425</b> <b>57 NP 12425</b> <b>57 NP 12425</b> <b>57 NP 12409</b> <b>57 NP 12409</b> <b>57 NP 12417</b> <b>57 NP 12409</b> <b>57 NP 12417</b> <b>57 NP 12417</b>	<b>2.32</b> <b>2.91</b> <b>2.91</b> <b>2.91</b> <b>1.62</b> <b>1.62</b> <b>1.62</b> <b>1.47</b> <b>1.47</b> <b>1.62</b> <b>1.62</b> <b>1.62</b>	<b>57 NP 12731</b> <b>57 NP 12726</b> <b>57 NP 12726</b> <b>57 NP 12726</b> <b>57 NP 12725</b> <b>57 NP 12725</b> <b>57 NP 12725</b> <b>57 NP 12709</b> <b>57 NP 12709</b> <b>57 NP 12717</b> <b>57 NP 12709</b> <b>57 NP 12717</b> <b>57 NP 12717</b>	<b>1.65</b> <b>2.14</b> <b>2.14</b> <b>2.14</b> <b>1.02</b> <b>1.02</b> <b>1.02</b> <b>1.02</b> <b>1.02</b> <b>1.02</b> <b>1.02</b> <b>1.02</b>
<b>ZENITH</b> 460, 462, 2047, 2057 5405-6, 5621, 5635 666, 668, 680, 6W90, 7M01S, 7M91D 5M90, 5510, 663-4 650HD, 651HE, 660TD, 661TE	<b>57 NP 12400</b> <b>57 NP 12430</b> <b>57 NP 12409</b> <b>57 NP 12414</b> <b>57 NP 12410</b>	<b>1.73</b> <b>2.32</b> <b>1.47</b> <b>1.62</b> <b>1.73</b>	<b>57 NP 12700</b> <b>57 NP 12730</b> <b>57 NP 12709</b> <b>57 NP 12714</b> <b>57 NP 12700</b>	<b>1.17</b> <b>1.65</b> <b>1.02</b> <b>1.18</b> <b>1.17</b>



## Silvertone All-in-One

**DeLuxe 14-Watt  
Public Address System  
for Small Groups**

**\$63<sup>75</sup>**  
Cash  
\$14 Down  
Club Model

This compact self-contained 14-Watt Public Address System is especially suitable for lodges, clubs, sales meetings, morticians, small restaurants or tearooms . . . or for other establishments which require both phonograph and microphone reproduction of fine quality and medium power. The system is so easy to set up and place in operation that even the novice can get it going in five minutes' time or less. System is completely contained in a single two-piece artificial leather case. Compact and durable. There are only two simple plug-in connections to make when placing the Presto-Pak in operation. Available in three models: (1) With a ten-record capacity automatic record changer which requires a minimum of attention from the operator; (2) With a standard 78 R.P.M. motor and manually operated phonograph for mortuaries, etc.; (3) With a professional type dual speed (33½ and 78 R.P.M.) motor and long tone arm for playing up to 16-inch transcriptions. All three models have a 5-tube high gain amplifier using a pair of 6V6's in the output. Controls: Microphone gain, Phonograph Gain, Hi-Lo Tone Compensation. Microphone gain 118db. Harmonic Content at 14 watts, approximately 5½%. For 120 volt 50-60 cycle A.C.

**57 NP 012860—Club Model.** With automatic record changer, 78 R.P.M. motor, crystal pickup, 10-inch P.M. speaker, 25-foot speaker cable, crystal mike and stand as illustrated, 7-foot mike cable. Takes 12-in. or smaller records. Shipping weight, 32 pounds. . . . . **\$63.75**

**57 NP 012861—Standard Model.** Same as above, except with manually operated phonograph instead of automatic record changer. Takes 12-in. or smaller records. Shipping weight, 48 pounds. . . . . **\$54.50**

**57 NP 012862—Professional Model.** Dual speed phonograph motor, 12-inch turntable, long tone arm with crystal pick-up for 16-inch or smaller records, 12-inch concert records, 10-inch PM speaker with 25-foot cable. Without microphone or stand. Shipping weight, 50 lbs. . . . . **\$72.25**



## Webster Standard Automatic Record Changer

**\$26<sup>32</sup>**  
Up  
Complete

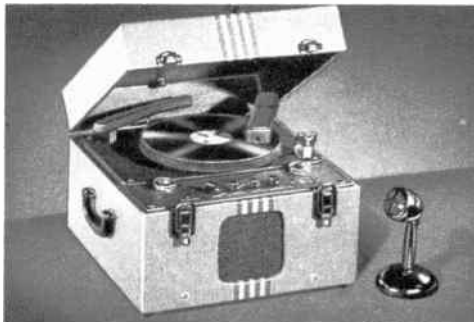
One of the simplest most positive acting, and fool-proof of the popular priced automatic record changers. Very easy to install, simple to operate. Four convenient control buttons: one for playing 10-inch records, one for 12-inch records, one for changing from automatic to manual operation, and one for rejecting records during operation. Handles twelve 10-inch or ten 12-inch records with each loading. Last record on turntable plays until machine is stopped. Crystal pickup. Motor board measures 14x14 inches. Mechanism extends 5¼ inches above and 4¼ inches below mounting plate. For 110 volt 60 cycle AC. Shipping weight, each, 30 pounds.  
**57 NP 013138—With Low Pressure Removable Needle.** . . . . . **\$26.32**  
**57 NP 013139—With Low Pressure Permanent Sapphire Stylus.** . . . . . **\$29.26**



## General Industries Automatic Record Changer

**\$23<sup>28</sup>**  
Complete

Plays twelve 10-inch or ten 12-inch records automatically. Only one lever to set when changing from one size record to another, or when setting for manual operation. Reject button instantly rejects record in playing position. Handles records with either run-in or oscillating trip grooves. Pickup supported at all times when not resting on record. Base plate size 14x14 inches. DeLuxe rim drive motor, rubber insulated from base plate, pickup, and turntable. For 110 volt 60 cycle A.C. Shipping weight, 25 pounds.  
**57 NP 013130—With Medium Pressure Crystal Pickup.** . . . . . **\$23.28**  
**57 NP 013128—With Low Pressure Crystal Pickup.** . . . . . **\$23.28**



## Talk-a-Phone Portable Recorder

**\$61<sup>75</sup>**  
Cash  
\$14 Down

Illustrated at left. Actually three instruments in one: (1) A well designed, easily operated home recorder, (2) an efficient record player with a very fine tone, (3) a complete low power Public Address System including amplifier, microphone, and loud speaker. Makes exceptionally clear, long life records from microphone pickup. Has plug for line from radio to make direct recordings of radio programs. Powerful 78 R.P.M. motor. Magnetic cutting head, crystal play-back head. Cuts 10-inch or smaller blanks, 110 lines to the inch outside to inside. Adjustable for cutting depth. Electric-eye recording level indicator. 3-watt amplifier. Rugged airplane-luggage cloth covered case, size 16x16x14 inches. Comes complete with tubes. Good quality crystal microphone with stand. Shipping weight, 40 pounds.

**57 NP 010294—For 110 volt 60 cycle A.C.** . . . . . **\$61.75**

## Portable Record Player and Amplifier

**Model G 44.** Similar in appearance to portable recorder shown above. Has 2-watt amplifier, PM speaker, self starting 78 R.P.M. motor, and offset head crystal pickup. Volume and tone control. Tone arm rest and needle cup. Removable record compartment for storing eight 10-inch records. Case size 14½x14x9 inches high, Airplane-luggage cloth covered.

**57 NP 010295—For 110 volt 60 cycle AC.** Shipping weight, 16 pounds. . . . . **\$25.25**



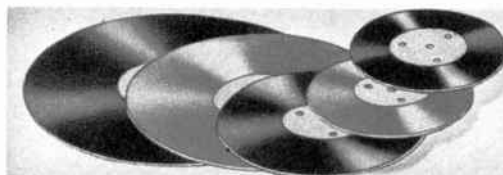
**\$14<sup>50</sup>**

- Tone Control
- Volume Control
- Quiet Motor
- Crystal Pickup

## Public Address Record Player

When played through any Silvertone Public Address Amplifier this machine will provide entertainment of ultra-fine quality. All Silvertone amplifiers have provisions for plugging in this record player. It is provided with tone control and volume control on motor board for the convenience of the operator. Good looking and durable. Black artificial leather covered carrying case, size 7¼x13½x15¼ inches. Quiet running, powerful motor with 6-foot power cord. 10-inch turntable. Astatic crystal pickup. Standard speed of 78 R.P.M. 110-volt 60-cycle A.C. An excellent value in a good quality record player. Available on Easy Terms. See Page 2 for details.

**57 NP 018900—Shipping weight, 29 pounds.** . . . . . **\$14.50**



## Silvertone Recording Discs

Safety discs. For home recording. Durable, non-inflammable. Machined steel base. Coated two sides. Playing time per side: 6½ inches, 1.5 minutes; 8 inches, 2 minutes; 10 inches, 3.5 minutes.

Catalog Number	Size In.	Shipping Wt.			
		Each	For Six	Each	Six for
57 NP 5883	6½	5 oz.	1 lb. 3 oz.	15c	\$0.79
57 NP 5884	8	9 oz.	2 lbs. 8 oz.	20c	1.09
57 NP 5885	10	11 oz.	3 lbs. 4 oz.	30c	1.69

## Professional Quality Recordiscs

Cellulose nitrate composition surface coating on processed bond or metal alloy base. Used by the advanced operator because they afford recordings with less surface noise. Because shavings are inflammable, discs must be used with caution. With each order for 10 or more discs (12-inch size excepted) we include a handy record album on extra charge.

Size In.	Bond Base		Alloy Base		Shpg. Wt.
	Catalog No.	Ea.	Catalog No.	Ea.	
6½	57 NP 13150	8c	57 NP 13154	17c	5 oz.
8	57 NP 13151	14c	57 NP 13155	24c	9 oz.
10	57 NP 13152	20c	57 NP 13156	34c	11 oz.
12	57 NP 13153	44c	57 NP 13157	67c	1 lb.



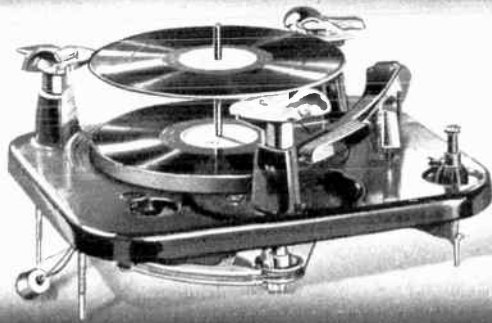
## New Rek-O-Kut Units

An overhead recording mechanism consisting of feed screw, vertical magnetic cutting head, and worm and spindle which fits over center pin of turntable. Cuts 100 lines per inch. Features Universal cutter mount; horizontal or oblong crystal cutter may be substituted for the standard magnetic vertical cutter furnished. Micrometer adjustment for Stylus angle. Swivel arrangement for easier alignment of mechanism with turntable. Simplified carriage lift for accurate spot recording. For twelve inch or smaller records. Recording motor must be used with unit because an ordinary phonograph motor is not sufficiently powerful for recording.

**57 NP 010957—Rek-O-Kut Recording Unit less motor and turntable.** Shipping weight, 5 pounds. . . . . **\$37.00**

**57 NP 10958F—Rek-O-Kut Dual Speed Motor and 12-inch (12-pound) cast iron turntable with disappearing drive pin.** Professional quality equipment. Shipping weight, 24 pounds. . . . . **\$49.50**

Shipped from Factory in New York, N. Y., from where you pay transportation.



## Webster DeLuxe Record Changers

**\$48.51** U.S. Cash  
\$10.00 Down

With this DeLuxe machine you can mix 10-inch and 12-inch records, in the same loading. Plays 15 to 17 records. Die cast base, low pressure tone arm, Astatic L-40 pickup and many other refinements not found in lower priced machines. Mounting plate is 13½x17½ inches long. Extends 5¾ inches above plate and 4¾ inches below plate. For 110 volt 60 cycle A.C. Shipping weight, each 34 pounds.

- 57 NP 013135—With removable headle head..... \$48.51
- 57 NP 013136—With permanent sapphire Stylus..... 51.45
- 57 NP 013133—Model 5596. With DeLuxe Changer—Recorder Mechanism, other wise same as 57NP013135. \$60.27
- 57 NP 013134—Model 5596-S. With DeLuxe Changer—Recorder Mechanism, otherwise same as 57NP013136. \$63.21

Why not have the best . . . It costs so little by the month on Sears Easy Terms. See Page 2 for details.

## RCA Automatic Record Changer

**\$19.65**  
Model 9932

An outstanding value! Pickup uses a sapphire point, and tone arm is counterbalanced to provide a maximum needle pressure on the record of two ounces. This materially reduces noise coming from the pickup on the record. Record capacity is sufficient to play any of the standard albums now available . . . having a capacity of 10—12-inch or 12—10-inch records. The last record is repeated until motor is switched off. Records may be removed from the turntable without the necessity of turning the record support levers. Throughout the entire operation, it is unnecessary for the operator to touch the pickup arm. After the records are loaded on the support posts and the motor is turned on, all operations are controlled by a "Start—Reject" button. It is not necessary to place the arm on the first record in order to start operation. A new feature called the safety-clutch provides an audible clicking sound in cases of jams, due to warped records, mechanical binding or improper operation. This safety-clutch removes pressure from the parts causing the jam or bind, thus avoiding damage to records or mechanism. Output: 5.0 volts at 400 cycles. Impedance: 150,000 ohms at 1000 cycles. For 115-volt 60-cycle, A.C. Dimensions: Width, 14¾ inches. Depth, 13¼ inches. Height, 4 inches clearance required above the motorboard. ¾ inches clearance required beneath the motorboard.

57 NP 013140—Model 9932. Shipping weight, 17 pounds..... \$19.65

## Permo-Point Microspecter

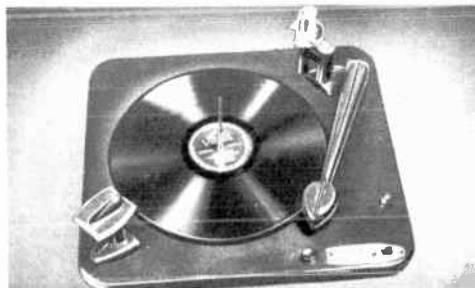
An 8-power rubber mounted magnifier for inspecting needles, styli, and recording patterns. Same type as used by professional recording engineers. Instructions included. (Not shown.)

57 NP 13191—Shipping weight, 4 oz. .... 50c

## General Industries \$23.11 Recording Assembly

Dual Speed Model . . . a complete record player and recorder on a single table. Cuts records up to 10-inch and plays records up to 12-inch in size, at either 78 or 33½ R.P.M. Turntable speed changed by merely throwing a switch. Walnut grain finished steel base plate. Plastic trimmed recorder and playback arms. Depth of cut adjustment. Dynamically balanced motor. Ten-inch weighted turntable. Medium pressure crystal pickup. 8-ohm magnetic cutting head. Base plate size 15 inches long, 11½ inches wide. Extends 2½-in. above and 3-in. below plate. For 110 volt 60 cycle A.C. Shipping weight, 20 lbs.

57 NP 013131—Dual Speed Model . . . \$23.11  
57 NP 013129—Single Speed Model. 78 R.P.M. Base plate size 15 inches long, 10 inches wide. Otherwise same as Dual Speed Model above. Shipping weight, 17 lbs. .... \$19.55



## 18-Watt Amplifier

Deluxe Silvertone Amplifier for Use with Phonograph **\$26.50**  
With Tubes

18-watt phonograph amplifier of superb audio quality. Has every refinement which could possibly add to the musical beauty of electrically reproduced phonograph records.

**Bass Boost.** Phonograph records do not normally present the low notes in their original strength and richness. To compensate for this deficiency in tone balance we have built into this amplifier an electrical circuit which restores these lower frequencies to their original intensity. Bass boost control provides a rising characteristic at low frequency end which attains a maximum gain of 7db at 80 cycles. This feature will not be fully appreciated, however, unless a baffle is provided which is large enough to reproduce the fundamental of these low notes. The longer the air travel path between front and back of the loud speaker, the lower the notes which will be reproduced. A good P.M. loud speaker is also essential. Jensen PM 12B or A12 PM is highly recommended. See Page 48.

**Automatic Volume Expansion.** Provides your recorded music with vibrant, lifelike quality. Every variation in volume is faithfully recreated in a variety of strength and tone color.

**Fidelity.** Response is flat within 1½ db between 50 and 10,000 cycles when all controls are in normal position.

**Controls.** Bass Boost, Treble Attenuation, Master Volume and Expansion.

**Tubes Used.** 1-6H6, 1-6J5, 1-6SA7, 1-6N7, 2-6L6G, 1-5Z4. Power consumption: 115 watts.

**Output Impedance.** 3, 6, 250, and 500 ohms for PM Speaker.

**Input Impedance.** For high impedance crystal or magnetic phono pickup.

**Amplifier Size.** 13 inches long, 7 inches wide, 7 inches high. For 110 volt 60 cycle A.C.

57NP012870—Amplifier complete with tubes. Less Speaker. Shpg. wt., 18 lbs. .... \$26.50

## Micro Matched Point Set

(Not shown.) Microscopically matched needle set. Genuine Permo-Point recording Stylus, Permo-Metal tipped de luxe Fidelitone play back needle, and an illustrated instruction course on recording. Recording stylus designed for 400 recordings, playback needle for 4000 playings.

57 NP 13190—Complete set. Shipping weight, 2 oz. .... \$1.79



## Tone Equalizer, Scratch Filter and Pickup Arms

**A Astatic Tone Equalizer.** An adjustable tone compensation network recommended for use with all crystal pickups. Connects between pickup and amplifier. Rotary switch provides four equalizing circuits. Dial plate knob. Instructions.

57 NP 17770—Shipping weight, 1 pound..... \$1.76

**B Phonograph Scratch Filter.** Suppresses needle scratch from either crystal or magnetic pickup.

57 NP 17771—Shipping weight, 8 ounces..... 89c

**C Quality Magnetic Pickup.** Immune from damage due to hot weather. Frequency response not quite as high pitched as crystal. For 12-inch or smaller records. Brown finished steel shell.

57 NP 17913—Shipping weight, 2 pounds .... \$2.10

**D RCA Model 9868 Pickup.** Molded brown bakelite shell. Crystal head. Impedance 10,000 ohms. Frequency range 70 to 7,000 C.P.S. Output 1.5 Volts at 100 c.p.s. with 500,000 ohm load. Needle pressure 2.7 ounces. For 10 or 12-inch records.

57 NP 13142—Shipping weight, 2 pounds. .... \$3.20

**E Shure Model 97AN Crystal Pickup.** A new lightweight pickup of Hi-voltage and Lo-pressure. Needle pressure 1 ounce. Output voltage 1.4 Volts. Frequency range 60-7000 c.p.s. Permanent sapphire stylus. For 10-inch and 12-inch records. Mounting centers 7½ inch. Cable length 14 inches. Mahogany finished molded plastic arm.

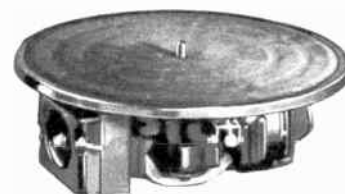
57 NP 12795—Shipping weight, 1 pound ..... \$3.82

**F Astatic Model FP-18.** New Astatic model with permanent sapphire stylus which eliminates changing needles. Low pressure stylus (about one ounce) means long record life. Design protects against accidental damage to stylus. Mounting centers 8 in. Overall length 9¾ in. For 12-inch or smaller records. Frequency range 30 to 7000 c.p.s. Output 2 volts. Statuary bronze finish.

57 NP 17949—Shipping weight, 2 pounds .... \$9.70

**G Astatic B-10 Crystal Pickup.** For 10 and 12-inch records. Tru-Tan offset head reduces tracking error to 1.5 degrees on a 12-inch record. Rotating head facilitates needle loading. Ball bearing swivel base and cradle type arm rest. Telephone. Black and bright chrome plated trim.

57 NP 17766— Shipping weight, 3 pounds .... \$10.29



## G. I. Phono Motors

**Green Flyer.** The old reliable. Noiseless; self-starting. Bronze finish. For 110-volt, 60-cycle A.C.

57 NP 017776—Model A. 78 R.P.M. 10-inch turntable. Shpg. wt., 11 lbs. \$9.44

57 NP 017777—Model D. Dual speed 10-inch turntable. Shpg. wt., 13 lbs. \$12.70

**Model RX. Rim Drive.** 78 R.P.M. Self-starting induction type. Rubber insulated. 9-inch turntable. 110-volt, 60-cycle A.C. Shipping weight, 10 pounds.

57 NP 017775..... \$4.50

**Recording Motor.** Heavy duty, rim drive. Dynamically balanced motor, rubber insulated. Self-starting. Turntable shaft revolves. Oilless bronze bearings. Retractable drive pin permits playing of standard records. Depth, mounting plate to bottom, 3 inches. Ten-inch weighted turntable. For 110 volt 60 cycle A.C.

57 NP 017974—Shpg. wt., 15 lbs. .... \$7.23

# Intercommunication Equipment



**7-Watt Silvertone**  
**Public Address System** **\$29.95**  
Small—Compact—Portable Complete

Small, compact loud speaker system. Designed to answer the needs of those who require sound reinforcement equipment of ready portability and operating simplicity. This system does not have the far-reaching power of our larger two-speaker systems but it has enough to make hearing comfortable throughout the average banquet hall, lodge room, or country club assembly room. Merchandise demonstrators, auctioneers, caterers, traveling sales managers will also find it ideal for their purpose.

Comes complete with plug-in connections for one microphone and one electric phonograph pickup (similar to 57 NP 18900 listed on Page 38). The volume control serves for microphone gain when knob is turned to left of dial plate center line; for phonograph when knob is turned to right of this point. There is also a tone control for making satisfactory adjustments within various enclosures. Has an 8-inch electro-dynamic speaker with 25-foot cable and a good quality crystal. Microphone with desk stand and 25-foot cable are also furnished. Carrying case is covered with good quality artificial leather; size 13 3/4 x 13 3/4 x 10 1/2 inches. For 110 volt, 60 cycle AC operation.

57 NP 012875—Complete system, consisting of Amplifier, tubes, speaker, Microphone and stand as illustrated, cables and carrying case. Shipping weight, 36 pounds. **\$29.95**

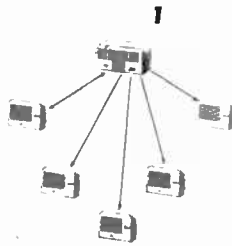
Order Everything You Need at One Time . . .  
and pay for it on Sears Convenient Easy Terms . . .  
See Page 2 For Details.



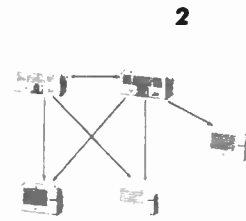
**7-Watt**  
**Silvertone**  
**Amplifier**  
**and Tubes**  
**\$13.95**

Output impedance 4000 ohms direct from plate of tube. Field supply for 1500 ohm electro dynamic speaker. Input channels: microphone and phonograph with fader control. Tone control. Microphone gain 110 db.; phonograph gain 70 db.; tubes used: 1-6SC7, 1-6L6G, 1-5Y3G. Amplifier size 10x8 1/2 x 6 1/4 inches. For 110 volt 60 cycle AC operation. Shipping weight, 12 pounds.  
57 NP 012874 **\$13.95**

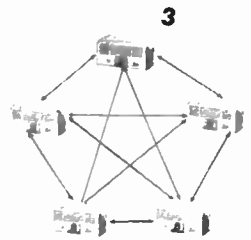
40 . . . SEARS, ROEBUCK AND CO.



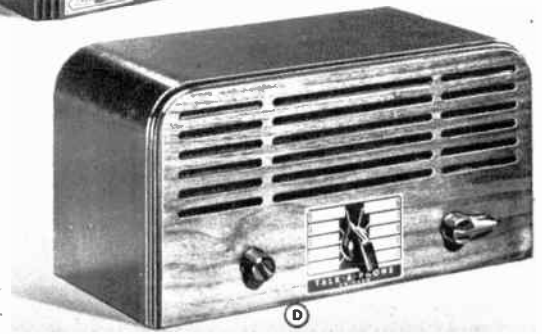
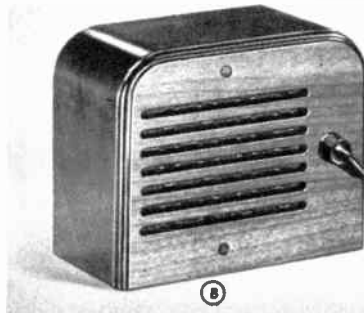
Two-way communication between the master station and any one of five sub-stations. Calls originate at either the master station or any one of the sub-stations.



Two Master Stations which may call each other . . . one has private hook-up with sub-station. Either master station may also communicate with as many as nine sub-stations.



Multiple System permits up to 10 stations to conduct 5 two-way conversations at the same time. Any station can call any other station with absolute privacy.



## Easily Installed Two-Way Communication Systems

These systems are extensively used in business offices, factories, shops, restaurants and stores for maintaining instant and direct two-way communication between two or more offices or positions. Each installation must have at least one master station. The number of sub-stations is immaterial so long as the master station selected has enough switch positions to accommodate the desired number. In general practice, the master station is turned on at the beginning of the business day and kept in readiness for instant operation. To call any substation in the system, the operator simply shifts indicator knob to the number corresponding to the station to be called, presses the "talk" switch and makes the call. Any substation may originate a call to the master station as long as the power is on at the master station. Voice at substation will be heard at Master station regardless of switch position at the "Master." To reply, however, the person at the "Master" must set his switch to the proper number. For paging purposes the Master Station may be so adjusted that all sub-stations in the system will reproduce the voice at the "Master."

A special silent feature shuts out all extraneous noises originating at sub-stations—yet permits normal substation-to-Master-station calls. Furthermore the Master station enjoys complete privacy. At no time can a substation listen in to the Master station except when called.

Voices will carry in open air with good understandability to a distance of 25 to 50 feet from substation location. Individuals at substations may reply without touching unit, at an equal distance away from the substation. For 110-volt AC or DC.

### For Hook-ups as Shown in Diagram (1)

Standard Master Station—Model LP-5. For use with 5 or less substations. Handsome walnut finish hardwood cabinet, size 9 1/2 inches long, 5 1/2 inches deep, 8 inches high. **\$19.95**  
Shipping weight, 10 lbs. . . .  
Standard Master Station—Model LP-10. For use with 10 or less substations. Otherwise same as Model LP-5. **\$24.95**  
Shipping weight, 10 pounds. . . .

A Standard Substation—Model RS-3. For use with LP-5 and LP-10. Walnut finish metal cabinet. **\$7.25**  
Shipping weight, 4 lbs. . . .

C DeLuxe Master Station—Model KR-40. For use with 10 or less substations (B). Walnut finish hardwood. Complete with Junction Box. Size 12x6x5 1/2 in. **\$28.50**  
Shipping weight, 12 lbs. . . .

B DeLuxe Substation—Model RU-43. For use with KR-40 Master Station (D). Walnut finish hardwood. Size 7 1/2 x 3 3/4 x 6 1/4 in. **\$11.25**  
Shipping weight, 5 lbs. . . .

Three-conductor cable (No. 2330) for hookups shown at diagram (2). Shipping weight, 3 lbs. **\$2.75**  
100 feet for . . .

### For Hook-ups as Shown in Diagram (2)

D DeLuxe Master Station—Model KC-80. For use with 9 others, Master or substations. Complete with Junction Box. Size 12x6 1/4 x 5 1/4. **\$38.25**  
Shipping weight, 12 pounds. . . .

B DeLuxe Substation—Model UC-82. For use with KC-80 Master Stations. Size 7 1/2 x 3 3/4 x 6. **\$11.25**  
Shipping weight, 5 pounds. . . .

Ten-pair cable (No. 2100) to use between Master Stations in hookup (2). Shpg. wt., per 100 ft., 4 lbs. **\$10c**  
Per foot. . . .

### For Hook-ups as Shown in Diagram (3)

D DeLuxe Master Station—Model KS-60. For use with nine or less additional Master stations. Complete with Junction Box. Size 12x6 1/4 x 5 1/4. **\$34.95**  
Shipping weight, 12 lbs. . . .

DeLuxe Master Station—Model KS-60-S. Same as KS-60 except that it is equipped with earphone for additional privacy. When earphone is removed from its hook, loud speaker of unit is silenced. **\$43.50**  
Shipping weight, 14 lbs. . . .

Eleven Conductor Cable (No. 6655) for hooking up KS-60 or KS-60-S Master Stations. Shipping weight, per 100 feet, 7 pounds. **\$13c**  
Per foot. . . .



# SILVERTONE 14-Watt Systems



Silvertone-Shure Crystal Microphones are either non-directional . . . depending upon the angle to which they are tilted. Crystal microphones are generally used where feedback is not a problem. They are slightly higher pitched than other types and are therefore preferred for voice transmission.

**(A) CRYSTAL MICROPHONE**



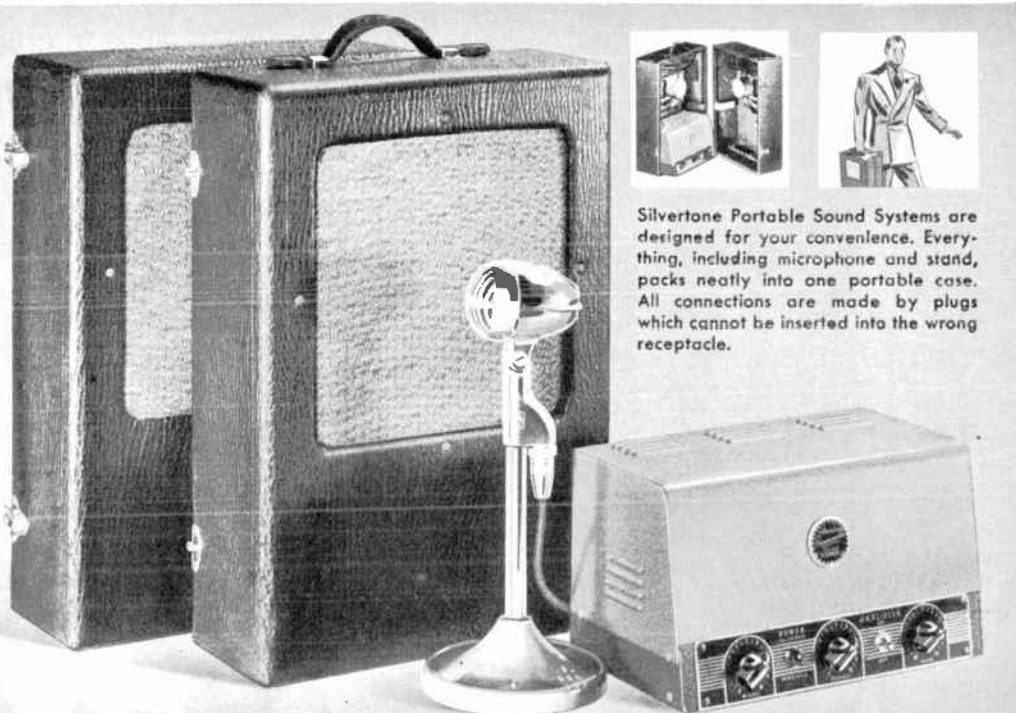
Silvertone-Amperite Velocity Microphones are bi-directional. They pick up sound from front and back . . . but are completely dead from the sides. They are more effective than a crystal microphone in eliminating feedback.

**(B) VELOCITY MICROPHONE**



Silvertone-Shure Dynamic type Cardioid Microphones offer the most effective way of eliminating feedback. With this type of mike, a Public Address System may be used without danger of sound rebounding from walls, ceiling and floor back into the loud speaker. In addition to this feature Cardioid microphones also have superb tone quality.

**(D) DYNAMIC MICROPHONE**



Silvertone Portable Sound Systems are designed for your convenience. Everything, including microphone and stand, packs neatly into one portable case. All connections are made by plugs which cannot be inserted into the wrong receptacle.

## Easy to Operate—No Technical Knowledge Needed

For beauty of tone . . . ease of operation . . . and all-around usefulness this modern 14-watt Silvertone Public Address System is certainly without a peer in the medium power field.

In this, as in all Silvertone Public Address Systems, you'll find the same high quality components, the same generous safety factors in design, and the same attention to detail which has always distinguished Sears Equipment. We have designed this system expressly for the man or woman without technical knowledge of such apparatus. We've made it so easy to set up and so fool-proof in operation that no one, however inexperienced, should fail to get satisfactory results. All connections are of the plug-in type and are so arranged that connections cannot be improperly made. Set up requires less than 5 minutes.

A high gain 5 tube circuit provides amazing microphone sensitivity. This is of great value where microphone must be placed away from source of the sound.

Two speakers are needed with any Public Address System if the maximum in coverage and clarity is to be obtained without overloading. The two-section case of this system provides adequate baffle for speakers which are generally placed on opposite sides of the auditorium or stage.

All equipment packs into a single artificial leather covered carrying case measuring only 17 3/4 x 12 1/2 x 9 1/2 inches.

An ideal system for traveling entertainers, musicians, orators, political speakers, small cafes, dramatic clubs, schools, and churches.

For example, in churches, the installation of this modern 14-watt sound system would immediately fulfill two definite functions—improve the hearing conditions for the congregation . . . and the speaking conditions for the pastor. In schools, where poor auditorium or gymnasium acoustics interfere with the enjoyment of school plays and entertainments, this easy operating Silvertone sound system offers an economical and dependable solution to a serious problem.

Orators and political speakers will also find this Silvertone system of vital importance. With its aid, every part of the speech is certain to be heard . . . even by those in the audience seated far from the speaker's stand. Operates only on 105-130 volt, 50-60 cycle A.C.

**Amplifier Specifications.** 5 tubes: 1-6J7G, 1-6Y7G, 2-6V6G, and 1-5V4G. Circuit: Resistance coupled employing 3 stages on the microphone input and 2 stages on the phonograph input. Inputs: One crystal, velocity, dynamic, or sound cell microphone and 1 high impedance phonograph. Output Impedances: 3 1/2, 7 1/2, 250 and 500 ohms. Individual Volume Controls for microphone and phonograph provide unrestricted mixing and fading of these two when used simultaneously. Continuous Tone Control for adjustment of bass or treble response to fit individual requirements. High sensitivity circuit eliminates necessity for "hugging" the microphone to get satisfactory pickup. Ruby Pilot lamp shows through bulls-eye on front panel when power is on. Quality Components used throughout. Tone Quality that even hair-splitting engineers call good. Sturdy auto body steel chassis and ventilated cover durably and attractively finished in two-tone baked-on Gray crackle enamel. Results in a far better piece of apparatus than has ever before been sold at this low price. Overall size of amplifier unit is 6 1/2 x 6 x 11 inches. For 110 volt, 60 cycle A.C. Power consumption 85 watts.

Be sure to state microphone and type of stand wanted. If Dynamic Cardioid Type Microphone (D) is wanted instead of Microphone (A) or (B) add \$10.00 to price; for Cardioid Crystal Microphone add \$5.00. If floor type mike stand is wanted instead of desk stand add \$2.50 to price.

57 NP 18914—Silvertone 14-watt amplifier and tubes. Shipping weight, 8 pounds. . . . **\$22.50**

57 NP 012890—Fixed System with two 10-in. 9 Watt Speakers, choice of microphone (A), or (B), 25-foot microphone cable and desk type microphone stand. Shipping weight, 35 pounds. . . . **\$41.25**

57 NP 012891—Fixed System with Two-Speakers and two baffles, choice of one microphone (A), or (B), 25-foot microphone cable and desk type microphone stand. Shipping weight, 42 pounds. . . . **\$49.95**

57 NP 012892—Portable single-speaker outfit with choice of one standard microphone A or B, 25-foot microphone cable and floor type microphone stand. Shipping weight, 28 pounds. . . . **\$48.50**

57 NP 012893—Portable two-speaker system with choice of one standard microphone A, or B, 25-foot cable and floor stand. Shpg. wt., 35 lbs. . . . **\$52.50**

## Silvertone Aristofone

For Use With  
Guitar, Mandolin  
Violin, and Reed  
or Brass Instruments

**\$26<sup>50</sup>**  
And Up

Complete with Tubes, Case and Speaker

The last word in electrical amplification for musical instruments. The Aristofone requires no specially constructed instrument with which to use it. You can use any guitar, mandolin, violin or banjo and equal the results from special-built instruments.

Aristofone accommodates two different instruments at one and the same time . . . an important feature for string ensembles. Provisions are also made for amplifying the pickup of a standard velocity, dynamic or crystal microphone—opening up amazing possibilities for entertainers! Announcements and vocal solos can be picked up by the standard microphone, while instrumental musical selections are picked up by the instrument microphones. Reed or brass instruments as well as the harmonica secure marvelous effects with the Aristofone. Reed organs and pianos may also be used.

Amperite Kontak Microphones, described on Page 47, are used on the instruments. These small microphones slip under the strings of the instrument, or may be held in place by adhesive tape. Two volume controls at top side of the amplifier case control instrument pick-ups any standard microphone. The convenient location of the controls makes it easy to operate. Foot pedal (57NP18209—Page 47) may be used to control instrument microphone if desired, or 57NP18207 microphone (Page 47) having a built-in volume control, is also suitable. Two Kontak Models SKH or KKH can be used simultaneously. Case is covered with a good grade of artificial leather. Size, 8 1/2 x 12 1/2 x 17 1/2 inches. System has a 5-tube, 8-watt amplifier which operates on 110-volt, 60-cycle A.C. For Easy Terms . . . See Page 2.

57 NP 018960—Aristofone, tubes, case and speaker. No microphones. Shipping weight, 19 pounds. . . . **\$26.50**

57 NP 018961—As above, with one Kontak model SKH microphone (E). Shipping weight, 21 pounds. . . . **\$33.50**

57 NP 018962—Same as 57 NP 018961, except with one Amperite foot pedal volume control (G) included. Shipping weight, 25 pounds. . . . **\$41.50**

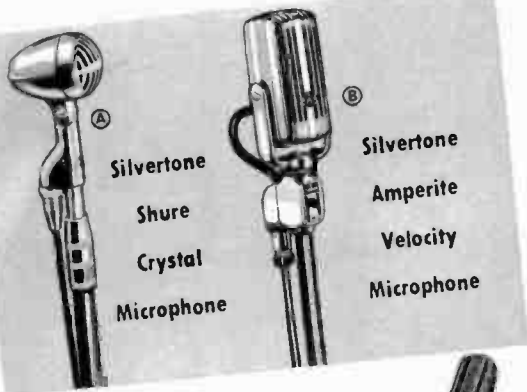
57 NP 012895—Aristofone, Tubes, Speaker and one Kontak Microphone Model KKH (F). Shipping weight, 21 pounds. . . . **\$36.95**

57 NP 012772—Conventional Microphone (A) or (B) (State Choice) and Silvertone floor stand. Shipping weight, 12 pounds. . . . **\$17.50**

57 NP 012773—Silvertone Shure Cardioid Dynamic Microphone (D) and Silvertone floor stand. Shipping weight, 14 pounds. . . . **\$27.50**



# 22-watt A. C. SILVERTONE All-Purpose Sound System



**\$41<sup>50</sup>**

Amplifier, Tubes, Dust Cover and Phonograph Mechanism

- Seven-Tube Amplifier Circuit (including Rectifier Tube)
- No Complicated Controls—Phonograph Unit Built Into Amplifier Dust Cover
- Sufficient Amplification Power for Entertaining 1000 People
- Easily Operated—Phonograph Plays Standard 10 and 12-inch Records
- Microphone Volume Control for Mixing and Fading with Phonograph

## 7 Features Why 70 Watt Silvertone Amplifiers Are Better

- 1 Automatic Volume Control. Maintains desired volume level as established by volume control settings. Velvet-smooth operation irrespective of input signal variations.
- 2 Automatic Volume Expansion. The most important single contribution to amplifier design in recent years. Crescendos which are barely perceptible through ordinary amplifiers become soul-stirring surges of swelling volume when heard through this Silvertone.
- 3 Output Level Indicator. Calibrated directly in watts. Gives you accurate instrument control over volume. Pre-determined volume levels can be instantly re-established without experimentation.
- 4 Four-Channel Remote Control Connections. Two of our remote control units shown on Page 7 will provide distant monitoring of all 4 channels of this amplifier.
- 5 Power Stage Connections. For power requirements beyond the rated 70 watts of amplifier, one or more 70-watt power stages can be used.
- 6 Output Impedances, four: taps at 62.5, 125, 250, 500 ohms provide suitable impedance matching for speaker requirements of up to 72 speakers. The number of speakers you can use is limited only by the amount of power you wish to feed to each.
- 7 Separate Plate and Filament Switches. Protects circuit during warm-up time, allows amplifier to become inoperative without allowing filaments to cool.

One of the most extraordinary values ever offered in loud speaker equipment. A complete, easily operated system without complicated controls... designed expressly for those without technical knowledge of Public Address equipment.

For school use this all-purpose outfit will more than justify its low cost. The phonograph is built into the amplifier dust cover. This makes for great convenience and flexibility whenever it is desired to change locations of the unit. Has sufficient power to use for the entertainment or instruction of groups of 1000 people or less. Reproduces 10-inch or 12-inch standard 78 R.P.M. records with splendid tone quality. Ideal for dancing, music appreciation classes, gymnasium and indoor drills.

Either one or two microphones may be used with this Silvertone All-Purpose system. Each microphone has an individual volume control for mixing and fading with the phonograph. This is particularly desirable in schools because the microphone is educationally valuable as an outlet for pupil self-expression. It develops skill in technique of speech, drama, and music. Dramatic presentations produced before the studio microphone have distinct contributions to offer in overcoming self-consciousness. With the distractions of a direct audience removed, many a sensitive youngster has developed self-assurance and poise, when speaking before a group.

With two microphones this system is also well suited to churches. One microphone can be used by the pastor and the other by the choir—thus lessening the strain on the voices of both the minister and the singers. It will enable congregations to

hear comfortably and thus take added inspiration from the church service.

Small orchestras will also benefit from this system. Two microphones are usually sufficient for bands of up to six musicians. The phonograph feature will be of value for intermission uses.

Amplifier Specifications: Seven tubes including rectifier tube—2-6J7, 1-6SC7, 1-6N7, 2-6L6G, 1-5V4. Output impedance 3½ and 7½ ohms. Microphone gain 125 db; phonograph gain 80 db. Input channels, 3 (2 mikes and phonograph.) Gray finish metal cover. For 110 volt 60 cycle A.C. Licensed by E. R. P. I.

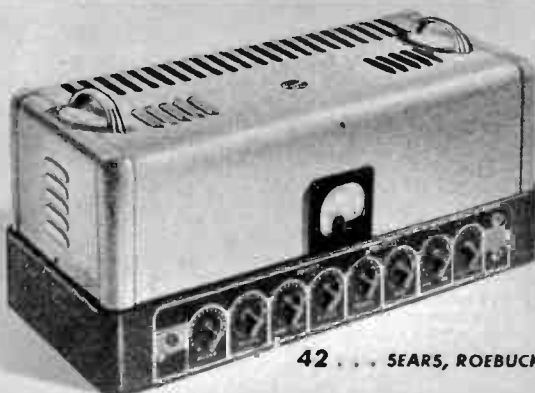
57 NP 012865—Silvertone 22-watt amplifier with tubes. Less dust cover and phonograph mechanism. Shipping weight, 20 pounds... **\$31.75**

57 NP 12866—Dust Cover and phonograph mechanism for above amplifier. Shipping weight, 11 pounds... **\$9.75**

Portable Public Address System consists of Amplifier, tubes, two 12-inch speakers with 25-foot cables, carrying case, choice of one microphone A or B with 25-foot microphone cable, one 3-section take-down floor stand. Does not include amplifier dust cover and phonograph mechanism 57 NP 12866 listed above, easily attached to amplifier.

57 NP 012867—Shipping wt., 59 lbs... **\$69.95**

If Silvertone-Shure Crystal Microphone C shown on Page 43 is wanted instead of A or B specify on order and add \$5; Microphone D instead of A or B is \$10 additional. Be sure to state choice of microphone on your order.



## Powerful 70-Watt Silvertone Amplifier

Here is the "engineer's" amplifier—a brilliant example of what can be accomplished by capable designers when untrammelled by limitations of time and cost. Ideal for "once-in-a-lifetime" jobs.

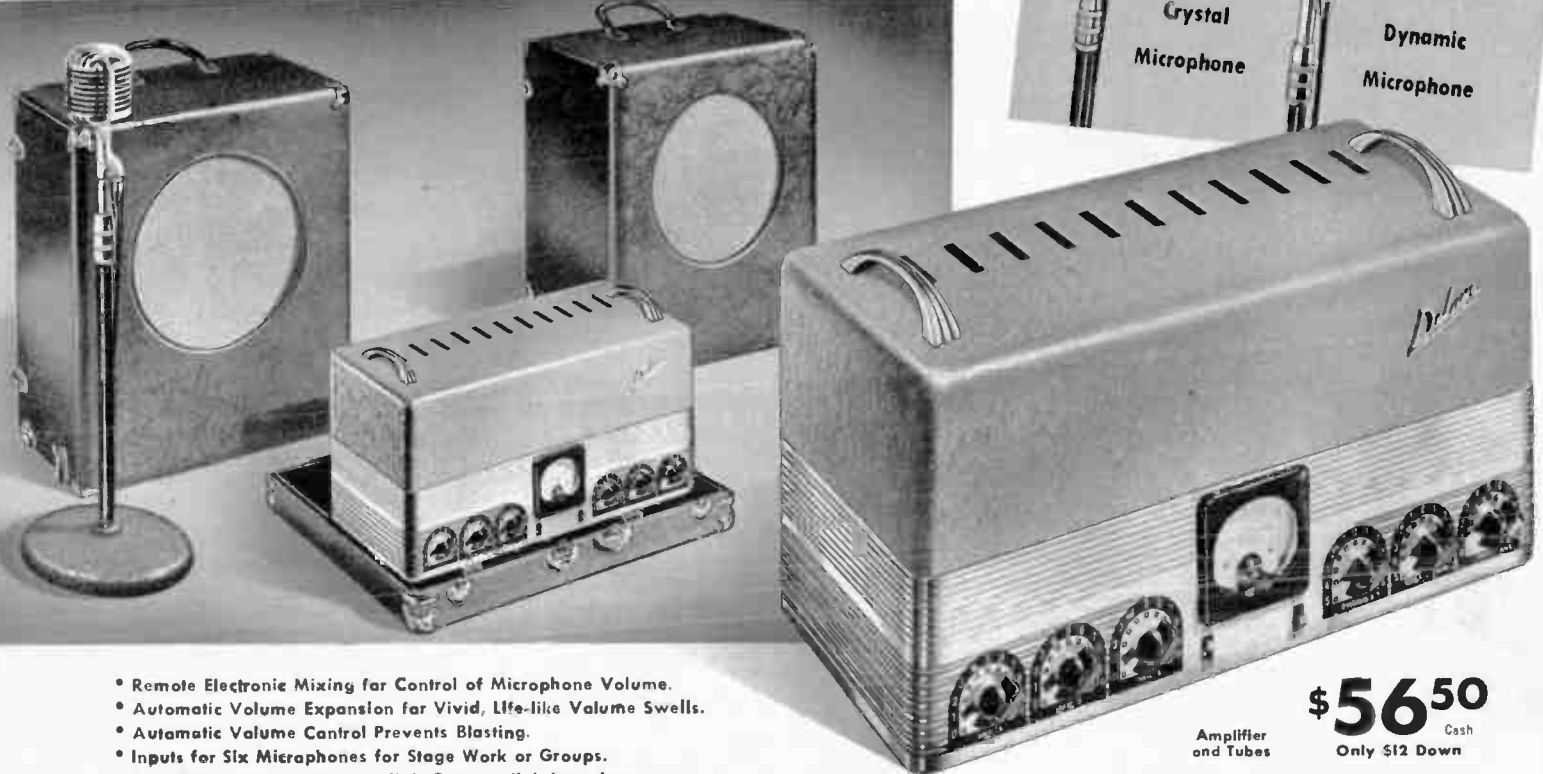
Built to rigid laboratory standards, this unit cannot fail to capture the imagination of every experienced sound man who considers its many outstanding and exciting refinements. Amplifier has 4 input channels, accommodates 4 microphones or 3 microphones and one phonograph. Has complete mixing and fading controls for all four channels. This is a prime requisite for satisfactory microphone pickup of stage productions. Even the smallest stage requires several. Also has high and low tone compensation with individual controls for bass and treble responses. Bass boost maintains proper tone balance at high volume levels where speaker efficiency

begins to fall off on lower frequencies. You get faultless reproduction at 7 watts or 70 through the proper manipulation of these controls.

Circuit. Seventeen tubes. Modern inverse feedback transformer coupled circuit provides smooth, distortionless performance. Five stages insure high sensitivity and perfect operation with any type high impedance microphone you may wish to use except carbon type. Size 10½x9x21½ inches long. Gray finish metal cover. For use on 110-volt, 60-cycle A.C. Licensed by Electrical Research Products, Inc. under U. S. patents of American Telephone and Telegraph Company and Western Electric Company. Not Mailable.

57 NPM 8970—Amplifier and tubes only. Shipping weight, 58 pounds... **\$77.75**

# SILVERTONE Anti-Feed Back 35-watt Sound Systems



- Remote Electronic Mixing for Control of Microphone Volume.
- Automatic Volume Expansion for Vivid, Life-like Volume Swells.
- Automatic Volume Control Prevents Blasting.
- Inputs for Six Microphones for Stage Work or Groups.
- Two Phonograph Inputs for High Output, High Impedance.

**\$56<sup>50</sup>**  
Cash  
Only \$12 Down

Amplifier  
and Tubes

Designed to take full advantage of the great new Shure Bros. Cardioid Microphones. More volume without feedback! Performers can stand farther away from the microphone! Microphone and loud speakers can be placed close together where necessary. System easily set up in any location because there are no feed-back problems to be solved. Three microphone gain controls provide for six microphones... two in parallel across each gain control. An especially desirable feature where large orchestras or stage productions require several microphones.

Split volume control and single low gain (85 db.) channel provides for two phonographs or other high output signal sources. Frequency response  $\pm 2$  db. 50 to 10,000 c.p.s. Output impedances  $3\frac{1}{2}$ ,  $7\frac{1}{2}$ , 250, and 500 ohms. Hum level is 56 db. below rated output. Harmonic content at 35 watts 5% or less. Gain 127 db. High frequency tone control provides 15 db. cut at 10,000 c.p.s. Jack and volume control for 8-ohm monitor speaker... an invaluable feature when amplifier is remote from speaker network. 12 tubes: 3-6J7G, 3-6N7, 1-6H6, 1-6SA7GT, 1-6Q7G, 2-6L6G, 1-5V4. For 110-volt, 50-60 cycle AC. Licensed by Electrical Research Products Inc. under U. S. patents of the American Telephone and Telegraph Co. and Western Electric Co. Price does not include Remote Control.

### Remote Control Unit for 35-Watt and 70-Watt Amplifiers

Provides control of two channels from any desired point within the enclosure served by the system, and is of great value in adjusting volume level for best results for the various speakers or entertainers who may appear on any single program. It elimi-

57 NP 08902—Amplifier only with set of 12 matched tubes, less remote control. Shpg. wt., 31 lbs..\$86.50

### Complete System for Fixed Installations

Consists of above Amplifier with 12 matched tubes, two 16-watt 12-inch Public Address Speakers without cables, one floor type microphone stand, 1 crystal type cardioid Microphone as illustrated at (C) above with 25 foot cable. See Page 48 for Speaker enclosures.

57 NP 012880—Shipping wt., 62 lbs.... \$94.95

57 NP 012881—Same as 57 NP 012880 except with Dynamic Cardioid Microphone as shown at (D) above instead of crystal Microphone. Shipping weight, 64 pounds..... \$99.95

### Portable Systems

Complete portable system consisting of amplifier and matching set of 12 tubes, 2 12-inch, 16 watt speakers, microphone floor stand, and cardioid crystal Microphone (C), 25-ft. microphone cable and 3-piece carrying case. Less remote control. Mailable. Shipping weight, 68 pounds.

57 NP 012882..... \$104.50

Portable system as above except with Dynamic type Cardioid Microphone (D), instead of crystal microphone. Less remote control.

57 NP 012883—Mailable. Wt., 70 lbs... \$109.50

nates the difficulty of obtaining complete audibility without introducing feedback. Incl. 50 feet of cable, but longer lengths are available if required. Designed for 35 watt deluxe and 70 watt amplifiers only.

57 NP 08925—Shipping weight 6 pounds..\$6.50

## 10 Reasons Why Shure Cardioid Equipped Silvertone Sound Systems are Better

- 1 More volume without feedback... the Audience hears better.
- 2 Pick-up of audience noise and reflected sound is reduced 66%.
- 3 No need to hug the mike and hide the face. Performers have more freedom—can stand farther away from the microphone.
- 4 Microphone and loud speakers may be placed close together where necessary.
- 5 Better and clearer reproduction of voice and music because the cardioid gives prominence and definition to the sound you pick up at the front of the microphone.
- 6 Problems of microphone placement are simplified—you have greater freedom in moving the microphone.
- 7 Sound system may be set up in any location. No worry about room acoustics or outdoor problems.
- 8 Silvertone Systems are modernly designed for "eye-appeal" as well as "sound appeal."
- 9 You make everybody happier: The audience relaxes—and hears the performers without any strain. The performers get more applause—they know the sound system does justice to their work. The sound man knows he has done a good job and is proud of his installation.
- 10 Your own "ears" will tell you the difference!

## Silvertone Hearing Aids Complete With Earphone

If you are hard of hearing you can start now to enjoy life the way you should. Join in the conversation, listen to music, the radio and enjoy the theater. For high quality hearing aids are not priced way out of reach at Sears. You take no risk either, for you can try one on our 15-Day Trial Plan... just order in the usual way. No costly testing or fitting necessary with Silvertone because a control allows you to adjust both the volume and tone to your own requirements.

Silvertone Hearing Aids have the latest type of expanding crystal microphone and earphone. They clearly and naturally amplify all kinds of sound—no buzzing, humming or crackling as in older carbon types. The entire outfit is enclosed in leather-covered case no larger than a small camera—3 1/2 x 5 1/2 inches. Comes complete with a single

earphone with head band and a 4 foot cord.

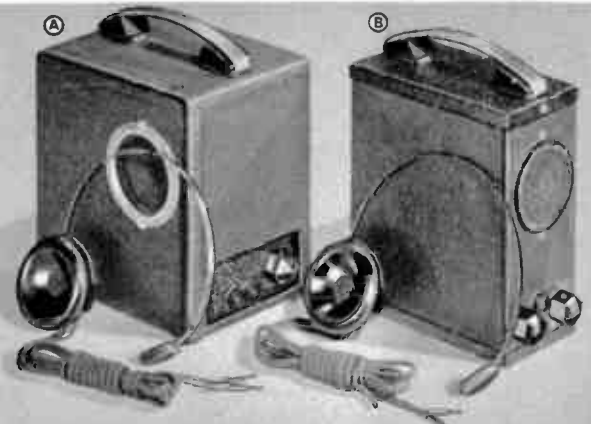
(B) 57 NP 05463—Standard Battery Model. Completely portable. Complete with small enclosed battery. Shpg. wt., 6 lbs.... \$24.50

57 NP 5467—Replacement Battery for above model. Shipping weight, 2 lbs.... \$2.00

(A) 57 NP 05464—De Luxe Battery Model. Same features as model above but is slightly larger in size—6 1/2 x 5 1/2 inches. Complete with large, long lived batteries. Shpg. wt., 7 lbs.... \$29.95

57 NP 5486—Set of two replacement batteries for above. Shpg. wt., 3 lbs. 8 oz.... \$1.43

57 NP 05465—De Luxe Electric Model. (Not illustrated) Just the thing for home use. Just plug it into any 110 volt AC or DC light socket. Same size as De Luxe battery model. Shipping weight, 6 pounds.... \$24.50



# SILVERTONE 30-Watt Storage Battery or A. C. Operated Public Address Systems

- Operates from 6-volt DC or 110-volt 60-cycle AC
- Instantly Convertible for Either Power Source
- Stand-by Battery Saver Switch
- High and Low Tone Compensation.
- Fading and Mixing Controls for Mike and Phono
- High Quality Crystal Phono Pickup
- Attractively Finished Two-tone Steel Case

## Works Anywhere—Use It Indoors or Outdoors

Ideal for sound truck or passenger car installations. Attracts crowds everywhere . . . a most effective medium for announcing and advertising new products and for promoting sales of all kinds. Commands attention at fairs, carnivals, theatrical events, political rallies, lodge benefits, rallies, community events and patriotic celebrations.

Operates equally well from regular 110-volt, 60-cycle A.C. or an ordinary 6-volt automobile battery. Delivers 30 watts of distortionless power to two giant 12-in. speakers making voices intelligible for at least a city block. Has more than enough power to cover indoor gatherings of 2000 people.

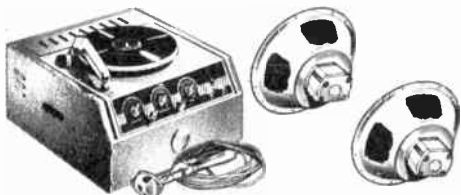
When operating from a 6-volt storage battery, the amplifier draws 19 amperes when phonograph is still, or 22 amperes when phonograph is running. Therefore the average automobile generator will keep the battery charged when the system is being used in a moving car. Even if no charging is done during operation, about 6 hours of service is possible from a fully charged 150-ampere hour battery.

Amplifier and phonograph is combined in one compact unit. There are no circuit chang-

es to make when switching from battery to A.C. operation—no power pack to install. All you need to do is plug it into the outlet and it's ready for immediate operation. Since this system is independent of power lines, it is ideal for evangelists, political campaigners, carnivals and road shows, and all sound truck operators. Because it will operate on A.C. whenever available, it is doubly desirable for those who entertain indoors as well as outdoors. Simple to operate, easy to move about.

**Specifications:** 7-tube, 30-watt amplifier, with inputs and volume controls for 1 crystal, velocity, or dynamic microphone, and one phonograph. Output impedances  $3\frac{1}{2}$ ,  $7\frac{1}{2}$ , 250 and 500 ohms brought out to 7-prong speaker receptacles. Battery-saving standby switch which reduces battery drain during intermissions but keeps tube filaments at operating temperature ready for instant service. Phonograph has crystal pickup. High and Low tone compensation and master gain control. Two-tone gray wrinkle baked-on enamel finish. Ruby bull's-eye on front panel. Microphone and speaker equipment optional.

See different type systems listed at left.



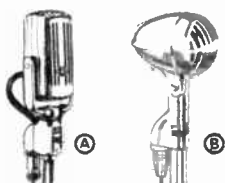
**57 NPM 12885—Basic System.** Amplifier phonograph unit, tubes, two 12-inch 13-watt PM speakers, 25-ft. cables, choice of microphone (A) or (B) shown below, 25-foot mike cable, mike handle. Shipping wt. 91 lbs. . . . . **\$94.95**

**57 NP 018903—Amplifier-phonograph unit with tubes only.** Shpg. wt. 49 lbs. . . . . **\$66.50**



**57 NPM 12886—Complete Mobile System.** Amplifier-phonograph unit, tubes, two 12-inch 13-watt PM speakers, 25-foot cables, two 57NP10964 cone projectors with 57NP10965 mounting fixtures, one (A) or (B) microphone (state choice) with 25-foot cable, mike handle, less auto top mounting platform. Shipping weight each, . . . . . **\$107.50**

**57 NP 17441—Auto top mounting platform.** Shipping weight, 10 pounds . . . . . **4.95**



**(A) Silvertone-Amperite Velocity Microphone.** Immune to damage by high temperatures. Bidirectional . . . sensitive from front and back. Has rich, life-like tone quality but does not lend itself well to close-up talking. A practical type mike for both indoor and outdoor use.

**(B) Silvertone-Shure Crystal Microphone.** Higher in pitch. Better for sound truck use than Velocity type. However the crystal element of this type may be damaged if microphone is left in closed automobile during summer months. Not recommended for use in small indoor enclosures.

## Silvertone All-Purpose Speaker Case

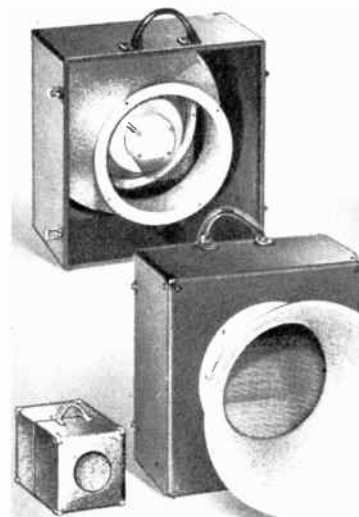
- Two-Piece Artificial Leather Covered Case
- For Mounting Two 12-inch Speakers
- Two Steel Speaker Flares Reduce Feed-Back
- Cases Provide Increased Baffle Area

**\$18<sup>95</sup>**  
Less Speaker

One of the most practical speaker enclosures made. It consists of a two piece artificial leather covered case. Size 18x18x19 inches within which may be mounted two 12-inch speakers back-to-back. Also included are two steel speaker flares which neatly nest within the case when speakers are not in use or, mount by means of wing-nuts on the outside of the case when system is in operation. Our customers who desire to use their systems both indoors and out have found them very convenient. For use on moving automobiles they may be strapped to the top of the car or mounted on our standard auto top mounting platform No. 57NP17441 listed on Page 48. This really works out better than conventional steel projectors because of the increased baffle area provided by the cases.

For indoor use they may be either suspended from ceiling, hung on walls, or simply placed upon the stage. Flares simplify indoor installation problems by reducing feed-back.

**57 NP 018958—Case and speaker flares without speakers.** Shipping weight, 30 pounds . . . . . **\$18.95**



**University Equipped System.** University diaphragm driver units and reflex projectors with this amplifier greatly increase its efficiency. At speech frequencies these reproducers have an electro-acoustic conversion efficiency of about 50% as compared with 10 to 20% for cone type speakers.

**57 NPM 12887—Amplifier-Phonograph unit, tubes, two University SAH driver units, two University LH projectors, 25-foot speaker cables, microphone (A) or (B) (state choice) with 25-foot cable and microphone handle.** Shipping weight, 110 pounds. . . . . **\$149.95**

For Sears Easy Terms, see Page 2.

44 . . SEARS, ROEBUCK AND CO.

# SILVERTONE DeLuxe 30-Watt Universal 6-Volt DC—110-Volt AC Public Address Systems

- Automatic Record Changer—Long Playing Programs
- Instantly convertible for Either Source of Power
- Multiple Input Channels for Two Mikes and Phono
- High and Low Tone Compensation.
- Standby Battery Saver Switch
- Fading and Mixing Controls for All Channels
- Attractively Finished Two-Tone Cabinet



## Adaptable for All Types of Public Address Work

Sears were the first to offer a universal 6-volt DC—110-volt AC public address system equipped with an automatic record changer. Our engineers, pioneers in building this type of equipment, are now old heads at the business. Their experience has equipped them to design apparatus which is adaptable for either outdoor or indoor Public Address work.

Formerly these All-Purpose systems were known as "Mobile" units. They were used principally for advertising purposes on moving automobiles and got their power from the 6-volt storage battery of the car. Now, however, there are probably as many of these outfits being used on 110-volt 60 cycle AC as there are on battery current.

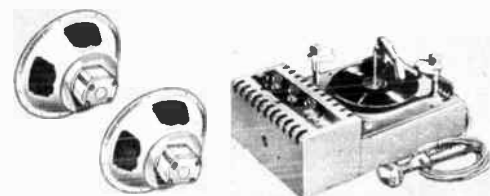
Political campaigners and evangelists particularly are making extensive use of this deluxe Silvertone system because of its adaptability to widely differing applications. Should there be a meeting or rally, for instance, at some out-of-the-way place where electricity is not available, storage battery power could be used. For meetings in localities served by electric lines, city current is of course used. Indoors or out, on 6-volt DC or 110-volt 60

cycle AC the system is equally powerful. No circuit changes are necessary when changing from one form of power to the other. Two power cables are furnished—one for battery power, the other for AC. Socket connections are so designed that no mistake can be made in changing cables.

Automatic record changer plays eight 10-inch or seven 12-inch standard 78 R.P.M. phonograph records. All records may be played through without attention on the part of the operator. Changer is positive and smooth in operation . . . no jamming, no trouble, no hitch. Amplifier utilizes a modern 10 tube (including rectifier) circuit and gives full 30 watts of usable power without distortion. There are two microphone channels in addition to the phonograph channel, all provided with individual volume controls for mixing and fading as desired. High and low tone compensation in continuously variable degrees.

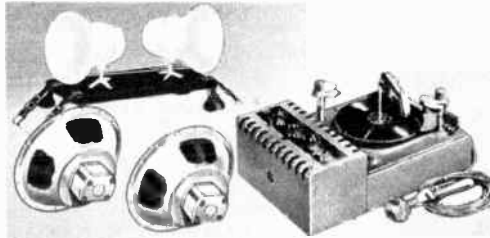
Handsome steel case finished in two-tone green crackle enamel, baked on for long wear. Overall size of case is 27x11x15 inches deep.

See different type systems listed at right.



**57 NPM 12897—Basic System.** Amplifier—Phonograph Unit, tubes, two 12-inch 16-watt P.M. speakers, 25-foot cables, microphone (A) or (B) on Page 44 (state choice), 25-foot mike cable, microphone handle. Shipping weight, 95 pounds. . . . . **\$124.50**

**57 NPM 18929—Amplifier-Phonograph and tubes only.** Shipping weight, 71 lbs. . . . . **\$94.50**



**57 NPM 12898—Complete Mobile System.** Amplifier-Phonograph Unit, tubes, two 12-inch 16-watt P.M. speakers, 25-foot cables, two 57 NP 10964 cone projectors with 57 NP 10965 mounting fixtures, (A) or (B) microphone on Page 44 (state choice), 25-foot mike cable, microphone handle. Less auto top mounting platform. Shipping weight, 91 pounds. . . . . **\$137.50**

**57 NP 017441—Auto Top Mounting platform.** Shipping weight, 10 pounds. . . . . **\$4.95**

### © Silvertone Shure Uniplex Mike.

Cardioid crystal type. Reduces reflected sound 66%. Lessens background noise and increases pickup range. If any system on this Page or Page 44 is wanted with this microphone instead of Microphone (A) or (B) allow \$5.00 additional.

### © Silvertone—Shure Unidyne Mike

Cardioid dynamic type. Unaffected by heat and humidity. Response 40 to 10,000 cycles. If any system on this page or Page 44 is wanted with this microphone instead of microphone (A) or (B) shown on Page 44 allow \$10.00 additional.



## Portable Silvertone 30-Watt Sound System

- 6-Volt DC—110-Volt 60 Cycle AC
- Two 12-inch Heavy Duty P.M. Speakers
- 3-Piece Artificial Leather Covered Case
- Microphone with 3-Section Floor Stand

**\$104.50**  
CASH  
\$24 Down

Universal portable system! Composed of 6-volt DC—110-volt 60 cycle AC 30-watt amplifier, two speakers, microphone and stand mounted in single 3-piece carrying case. Size 16x20x21 inches.

Amplifier has 10 tubes (including rectifier) two high gain microphone channels and 1 phonograph input. High and low tone compensation. Individual gain controls for mixing and fading all inputs. Output impedances 3½, 7½, 250 and 500 ohms brought out to 7 prong speaker receptacles. Microphone gain 127 db. Phonograph gain 85 db. Frequency response ± 2 db 50 to 10,000 c.p.s. Hum level 56 db below rated output. Harmonic content at 30 watts 6% or less. System complete with amplifier—tubes, two 12-inch 16-watt heavy duty speakers with 25-foot cables, microphone (A) or (B) described on Page 44 (state choice), with 25-foot microphone cable, 3-section take-down floor stand and 3-piece artificial leather covered carrying case. **Not Mailable.**

**57 NPM 12896—Shipping weight, 72 pounds. . . . . \$104.50**

**57 NP 018930—Amplifier and tubes only. Shipping weight, 30 pounds . . . . . \$59.50**



**University Equipped System.** If you want the absolute "tops" in a sound system for outdoor use where audible range need not exceed two average city blocks, here is the combination for you.

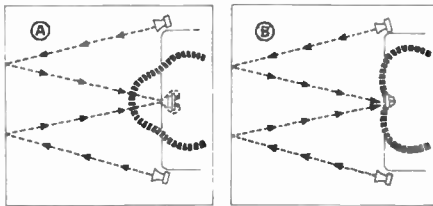
**57 NPM 12899—Amplifier-Phonograph Unit,** tubes, two University SAH Driver Units, two University L11 Projectors, 25-foot speaker cables, microphone (A) or (B) on Page 44 (state choice), 25-foot mike cable, Microphone handle. Shipping weight, 120 pounds. . . . . **\$179.95**

Available on Sears Easy Terms.  
See Page 2 for complete details



**A Ordinary Mike**  
Conventional bi-directional or non-directional microphones pick up audience and background noises as shown.

**B Cardioid Mike**  
A true unidirectional microphone picks up the voice or music of the performers—free from feed-back.



**\$29<sup>00</sup>**

For Terms  
See Page 2

**Shure "Unidyne"  
Unidirectional Microphone**

This cardioid type dynamic mike offers the latest scientific developments in microphone design. Gives true unidirectional performance without feed-back. Mike picks up sound over a wide angle at the front, but is dead at the rear, thus cutting down troublesome reflections and background noises. Easy to set up your sound system in any location without worrying about room acoustics or outdoor problems. Well adapted to either indoor or outdoor use because it is practically unaffected by heat or humidity.

**Unidyne Microphone—Model 55C**

High impedance. May be used with any crystal microphone amplifier with input impedance of 10,000 ohms or more. Smooth wide angle reproduction of 40 to 10,000 cycles. Pick-up at rear is down to 12 to 15 db. Head tilts through 90° angle. Has built-in cable connector. Highly polished chrome finished case, size 4¼x3¼x3½ inches. Complete with 25-foot cable.

57 NP 018205—Shipping weight, 5 pounds..... \$29.11

**Broadcast Unidyne Microphone—Model 55S**

For those who demand the very finest. Specially suspended double wind screened moving coil system. Built-in transverse vibration isolation unit. Rubber floating 18-inch cable stub. Swivel mount. (See small illustration above.)

57 NP 12789F—Model 555B for 200-250 ohm circuits. Shipping weight, 6 pounds..... **\$38.81**

57 NP 12790F—Model 555C for high impedance circuits. Shipping weight, 6 pounds..... **38.81**

**Shure Uniplex  
Cardioid Crystal Microphone**

Here is another Shure development that is making sound history. A Unidirectional Crystal... something unthought of before the cardioid principle was perfected. If you are one of the many who prefer a crystal microphone and are having feed-back trouble, we urge you to try this Shure Uniplex. It is daily making sound installations practical in countless locations where bad acoustical conditions coupled with conventional mikes have rendered them useless. Output level -63db. Rear response down approximately 15 db. below this. Special moisture proof Graphoil Bimorph Crystal. Response 30 to 10,000 cycles. Swivel head. Chrome finished case. Size 3¼x3¼ inches deep. Supplied with 25-foot cable. Shipping weight, 3 pounds.

57 NP 018248—Model 730 A..... **\$20.87**

**\$20<sup>87</sup>**

For Terms  
See Page 2

**For Recording, Communication**



**Astatic "T-3"  
Crystal Mike**

For Public Address...Recording...Amateur and general applications. An improved, new model with superb response and flexible design features. The tilting head controls directional characteristics. Tilts from horizontal to vertical positions. Output -52 db., response 30 to 10,000 cps. Has standard plug and connector, with ¼-inch-27-thread. Spring cable protector and 25-foot cable. Chrome finish. Shipping weight, 2 pounds.

57 NP 018210..... **\$14.70**

**Astatic JT-30-TT  
Crystal Microphone**

A wide-range, semi-directional crystal microphone with a fixed angle position. Bimorph crystal is completely moisture sealed. Output 52 db. (below one volt bar)—Frequency response—free from objectionable peaks or dips to 6000 cps. Has ¼-in.—27-thread. Equipped with concentric cable connector, convenient wood handle, interlocking metal base and 25-ft. shielded cable. Two-tone gray enamel finish. Shipping weight, each, 2 pounds.

57 NP 018257..... **\$9.11**

**"D-104"  
Crystal Microphone**

The first practical crystal microphone ever developed. Designed especially for and used by more than 12,000 radio amateurs. Has reduced feedback tendencies; new type yoke driven, bridge mounted graphoil crystal element, and improved shockproof mounting. Output -48 db.; response rises from 500 to 4000 cps. Bright chrome plated finish. Plug and connector with ¼-in.—27-thread, spring cable protector and 7-ft. cable. Impedance: 5 Megs. Shipping weight, 2 lbs.

57 NP 018212..... **\$13.23**

See Notice on Page 2 Regarding Possible Price Changes

**Shure Crystal "Stratoliner"**

**A** A new leader in beauty and performance for general purpose public address, recording, and call systems. Wide range frequency response. Iridescent gray case with chrome plated finish. Semi-directional or non-directional operation. Output -49.7 db. Swivel head. Diam. 2½ in., length 4¾ inches. Supplied with 25-foot cable.

57 NP 012792—Model 708A. Shpg. wt., 3 lbs. .... **\$11.17**

**Shure Crystal "Rocket"**

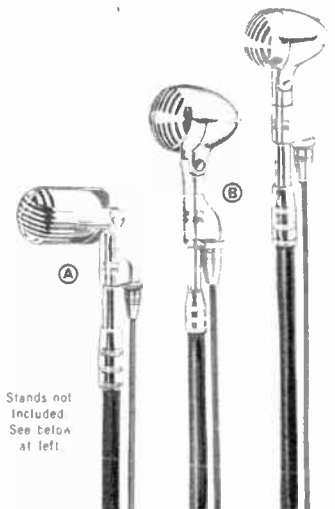
**B** Smooth "ultra" wide range response from 30 to 10,000 cycles. Output level -58db. Semi-directional or non-directional operation as desired. Swivel head. Internal screen protects cartridge. Chrome finish. Diam. 2¼ in. Length 3¾ inches. With 25-foot shielded cable.

57 NP 018250—Model 705 A. Shpg. wt., 3 lbs. .... **\$14.70**

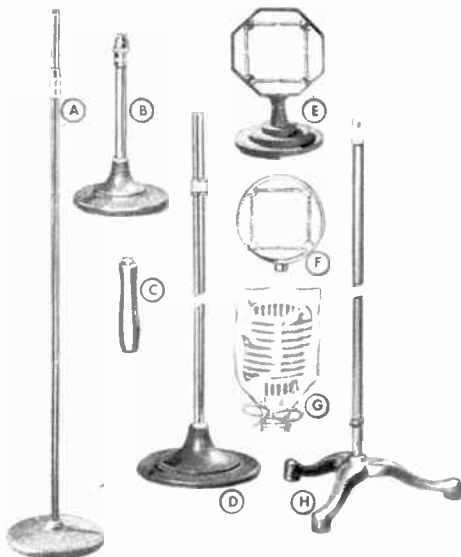
**Shure Lapel Microphone**

Not illustrated. Small light Crystal Lapel Microphone with high output level. Gives high quality reproduction of speaker's voice. Inconspicuous. Only 1½ inch diameter; weight only 1½ ounces. Iridescent gray finish. Handy lapel clip. Complete with 25 foot shielded rubber covered single-conductor cable

57 NP 012778—Model 76B. Shpg. wt., 1 lb. .... **\$14.70**



Stands not included. See below at left.



**A** 57 NP 19793—This stand is furnished as standard equipment with Silvertone Public Address systems. Finished in iridescent gray enamel with chrome plated rings at joints. Adjustable 48 to 65 in. 10-inch cast base with rubber cushion all around. ¾—7-27 thread. Shpg. wt., 10 lbs. **\$4.95**

**B** 57 NP 18216—Black wrinkle base. Chrome plated tube. Ht., 10¼ in. Ball and socket swivel has ¼-in.—27 thread. Shpg. wt., 5 lbs. .... **\$1.49**  
57 NP 18217—Same as above except without swivel. Height, 8½ in. ¼-inch-27 thread. Shipping weight, 4 pounds 8 ounces..... **\$1.19**

**C** 57 NP 18215—Ebonized wood with Brass threaded insert. ¼-inch-7-27 thread. Fits either ring or microphone. Shpg. wt., 1 lb. .... **50c**

**D** 57 NP 018213—Tubes of heavy brass, heavily chrome plated. Ten-inch metal base, black crackle finish. Stand is adjustable from 36 to 67 in. Threaded for ¼ inch 7-27 microphone. Shipping weight, 10 lbs. .... **\$3.95**

**E** 57 NP 10699—Black wrinkle finish. 5¼-inch diameter octagonal ring. 8-inch springs. Shipping weight, 4 pounds. .... **\$1.59**

**F** 57 NP 18218—Chrome finish. 8 rust-proof springs included. Fits ¼-inch-27 thread. Shipping weight, 1 pound..... **\$1.27**

**G** 57 NP 12782—Just the thing to keep dust and moisture out of your mike. Made of oil silk. Need not be removed when mike is in use. Shpg. wt., 6 oz.29c

**H** 57 NP 018214—Model S55A. Super-positive friction lock clutch. Adjustable 48 to 70 in. Leg spread 15½ inches. Iridescent gray enamel finish. Shipping weight, 14 pounds..... **\$9.11**



**Philmore Dyna-Mike**

**B** Low priced dynamic type microphone for use in connection with your radio. Can be used up to 100 feet away from radio provided a shielded, low capacity cable is used. Instructions furnished for connecting to radio. Furnished with 9 foot cord. Not recommended for communication or Public Address work. Shipping weight, each 3 pounds.

57 NP 10485—Each..... **\$2.75**

**Carban Type Hand Microphone**

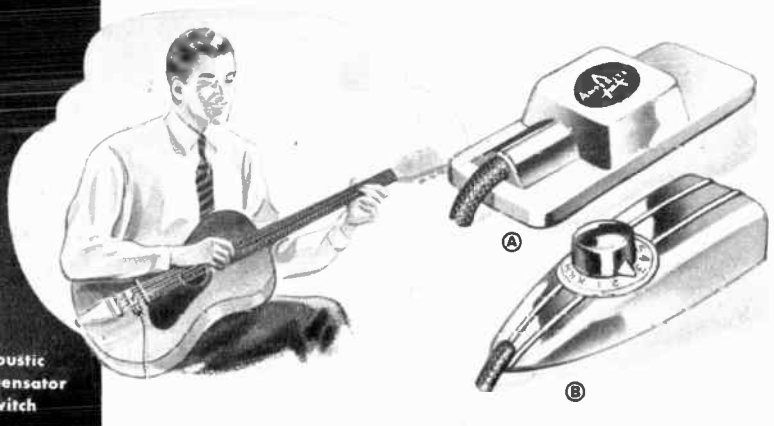
**A** For home broadcasting use. Equipped with on-off switch and 6 foot cable. Shipping weight, each, 2 pounds.

57 NP 10486—Each..... **98c**

# or Public Address Work



Acoustic Compensator Switch



## Amperite Dynamic Microphone

New Amperite PGH microphone. Pressure gradient dynamic type. Unidirectional, with improved ellipsoid pickup pattern; has lowest feedback point of any diaphragm mike; flat response, free from annoying peaks; range 40-11,000 c.p.s.; high output—56 db; not affected by temperature, altitude or humidity; Alnico magnet; complete with switch and "station type" cable connector and 25-foot cable. Excellent for finest type installations. Deluxe chrome plated case. **Hi-impedance.** Model PGH. Shipping weight, 3 pounds.

**\$18.82**

57 NP 017951 ..... \$18.82

### Standard Model

Like above, but range from 70-8000 c.p.s. and with 12-ft. cable. For speech and music. Model PGAH. Shipping weight, 3 lbs.

57 NP 017952 ..... **\$14.70**

## Amperite Velocity Microphone

Amperite "RB" microphone with Acoustic Compensator. Excellent for close talking or distant pickup. Free from background noise. Acoustic Compensator permits increase of high frequencies by merely moving finger button. Frequency range 40 to 11,000 c.p.s. output—65 db. Chrome plated finish. 25-foot cable.

### Model RBHK High Impedance

57 NP 018200—Shipping wt., 8 lbs. .... \$24.70

### Model RBMK Low Impedance (200 ohms)

57 NP 018201—Shipping weight, 8 pounds. .... **\$24.70**

### Popular Priced Model RSHK

Same as above except frequency range 60 to 8000 c.p.s. High impedance. Chrome plated finish. 25 foot cable.

57 NP 018202—Shpg. wt., 8 lbs. .... **\$18.82**

## Genuine Amperite Kontak Mikes

These microphones faithfully reproduce the vibration of any musical instrument on which they are placed. Frequency range 40 to 9000 cps. Output level—40 db. Suitable for use on all string instruments such as guitars, violins, string bass viols; or other instruments including pianos, harmonicas, trumpets, clarinets, etc. Can be used with any Amplifier or with modern radios of 6 or more tubes. Cannot be used without amplifier or radio. 15-foot cable. No phone plug or attaching clamp.

**A** Standard Model SKH for use with Public Address Amplifier. No volume control. Foot pedal control listed below is recommended.

57 NP 018206—Shipping wt., 1 lb. .... **\$7.06**

**B** Standard Model KR for use with home radio sets. Similar in appearance to Model SKH. High output. No transformer required.

57 NP 012775—Shipping wt., 1 lb. .... **\$7.06**

**C** Deluxe Model KKH for use with Public Address Amplifier. Has hand volume control.

57 NP 018207—Shipping wt., 1 lb. .... **\$10.58**

**D** Foot Pedal Control. For Model SKH and Model KR.

57 NP 18209—Shipping weight, 4 pounds. **\$7.06**

**E** Clamp. For attaching Amperite Kontak microphones to musical instruments. Adjustable 1/4 to 1 1/2 inch.

57 NP 18251—Shipping weight, 8 ounces. .... **\$9c**



For Sears Easy Terms, See Inside Front Cover

## Turner Model 99 Dynamic Microphone

(At top, left.) Of all the conventional type Dynamic Microphones which have come to our attention, the Turner Model 99 is one of the best. Exceptionally rugged—one of the few mikes built to withstand the hard knocks of day-in-and-day-out use. Its almost complete absence of peaks lets you work close if necessary; it won't blast. Designed for the man who can't afford to have a failure. Indoors or out, regardless of climate or temperature you get sure-fire operation with this superb instrument. Gives clear, crisp reproduction of either speech or sound. Output—52 db. High impedance. Gun metal finished case. Furnished with 25-foot cord.

57 NP 018228—Shipping weight, 5 pounds. .... **\$19.10**

## Turner 33X Crystal Microphone

As good a Semi or Non-directional crystal microphone as there is made today for the money. Output—52 db. Response 30-10,000 c.p.s. 90 degree tilting head. Handsomely designed chrome finished case. Furnished with 25-foot cable.

57 NP 017966—Shipping weight, 3 pounds. .... **\$13.23**

### Turner Model 33D

Dynamic type microphone. Otherwise same as 33X above. Shipping weight, 3 pounds

57 NP 017967 ..... **\$14.70**



## Microphones, Connectors and Other Accessories

**A** Desk Microphone—For home use in connection with radio. Full directions. 57 NP 18789—Shipping weight, 59c 1 pound. .... **59c**

**B** 1CA Permo-Magnetic Microphone. Has new type high impedance Permo-Magnetic unit, for perfect response. Ruggedly built. Recommended for home use only. Not suitable for public address. Crackle metallic finish. Complete with 5-ft. cord. Full instructions. **\$2.91**

57 NP 10378—Shpg. wt., 2 lbs. **73c**

Extra Extension Corda. For 57 NP 10378. 10-foot Rubber covered stranded wire and cord connector. **50c**

57 NP 10379—Shpg. wt., 6 oz. .... **50c**

**C** Microphone Booster—For increasing sensitivity of home microphones for use in connection with radio set. 57 NP 18787—Shpg. wt., 1 lb. **73c**

57 NP 18787—Shpg. wt., 1 lb. **73c**

**D** Hand Microphone—Single-button carbon type for home use in connection with radio. Directions supplied. 57 NP 18788—Shipping weight, 2 pounds. .... **\$1.47**

**E, F, G** Amphenol type MCI Connectors. For microphones phono pickups, and speakers. Single conductor utilizes shell for second conductor. Accommodates cable up to 1/4 inch. Chrome plated. Shpg. wt., ea., 4 oz. **29c**

57 NP 18231—MCI-F. Female, with coupling ring. .... **29c**

57 NP 18232—MCI-M. Male, with coupling threads. .... **24c**

57 NP 18233—MCI-M. Male connector for chassis mounting. .... **18c**

**H** Amphenol Cable Connectors. Metal cased. Male plugs fit standard tube socket. Shpg. wt., ea., 3 oz. .... **15c**

57 NP 18237—4 prong Male. .... **15c**

57 NP 18238—4 contact Female. .... **15c**

57 NP 18239—5 prong Male. .... **15c**

57 NP 18240—5 contact Female. .... **15c**

57 NP 18241—6 prong Male. .... **15c**

57 NP 18242—6 contact Female. .... **15c**

57 NP 18427—7 contact Male. .... **15c**

**I** Break-in Switch. For all microphone circuits having single conductor shielded cable connections. Can be instantly attached. Fits male and female MCI-F and MCI-M connectors listed above. Switch works "on-off" or "press to talk." Short circuits mike. Shipping weight, each, 8 oz. .... **59c**

57 NP 13193 ..... **59c**

See Page 13 for Microphone Plugs and Jacks

## Shure Stratoliner for Speech

**A** This beautiful new microphone is now available with special speech characteristics for commercial and amateur phone work. Extra high output:—29.7 db. Swivel head. Furnished with 7-foot rubber covered cable.

57 NP 012794—Model 708S. Complete with desk mount to match. Shpg. wt., 4 lbs. .... **\$12.06**

57 NP 012799—Model 708HS. Without desk mount. Shpg. wt., 3 lbs. .... **\$10.29**

## Shure Super-Level 70ST

**B** Communications Microphone. New streamlined desk mount plus filtering which protects against R.F. burnouts. Has highest output available in a crystal microphone (26 db. below 1 volt for 10-bar speech signal). Shure high-efficiency speech characteristic gives clear, crisp signals—cuts through noise and static. Built-in cable connector; 7-foot shielded cable. Satin-chrome plated head, iridescent gray desk mount.

57 NP 018893—Model 70ST. Complete with Desk Mount. Shpg. wt., 4 lbs. .... **\$14.99**

57 NP 018894—Model 70STH. Without desk mount. Shpg. wt., 2 lbs. .... **\$13.23**

## Shure Crystal Microphone—707A

**C** Smooth frequency response for voice and music. High output level:—49.7 db. below one volt per bar at end of 7-foot cable. Modern die cast iridescent gray with highly polished plating on front grille. Moisture-sealed Bimorph Crystal, mechanically isolated. Standard 3/8-inch—27 thread. 7-foot shielded cable with spring protector.

57 NP 012788—Complete with desk stand. Shipping weight, 4 pounds. .... **\$8.52**

57 NP 012798—Model 707A without desk stand. Shipping weight, 2 pounds. .... **\$7.34**

## Universal XX Carbon Microphone

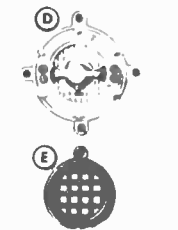
**D** Double Button. One of the most popular microphones of its type on the market. Its—50 db. output insures maximum volume on either high or low gain amplifiers. Highly polished chrome plated. Diameter, 2 1/2 inches. Thickness, 1 3/4 inches. Duraluminum diaphragm. Frequency range 40 to 6,000 cps. Impedance 200 ohms per button.

57 NP 18227—Shipping wt., 1 lb. .... **\$5.88**

## Universal Model W Carbon Mike

**E** Single Button. Combines high sensitivity, light weight, and compactness. Diameter only 1 1/4 inches. Thickness 1/2 inch. Impedance 200 ohms. Output—36 db. Bakelite case.

57 NP 18226—Shipping wt., 8 oz. .... **\$1.76**





Nationally Famous  
**JENSEN SPEAKERS**  
 New .. Powerful  
 Better Tone Quality

**Jensen Coaxial and Concert Speakers**

The new Coaxial Speakers bring you the high type of performance obtainable only in a specially designed and coordinated double speaker system. Each speaker handles its portion of the total frequency range. No single speaker can do justice to the immensely broad spectrum required for high fidelity reproduction. The low frequency performance of these—or any other speakers depends also on the acoustic enclosure. Jensen Bass Reflex are recommended for best results.

**Model JHP-52.** Huge 13 inch P.M. unit. Highly recommended for all applications requiring extended range high fidelity reproduction. Excellent for FM-AM radio receivers and phonographs. Monitoring High frequency range control switch on extension cable. Input impedance 500 ohms. Power rating 12 watts. Not recommended for P.A. work.  
**57 NP 013164**—Shipping weight, 23 lbs. **\$29.11**

**Model JCP 40.** New 12 in. Coaxial Speaker. Simplified bridging network. Smaller tweeter than JHP-52 above. Range 50 to 12,000 C.P.S. Terminals for ST 606 high frequency control. Rating 8 watts continuous. P.M. Type. Voice Coil impedance 6 ohms.  
**57NP013165**—Shipping weight, 16 lbs. **\$17.35**  
**57NP 13166**—ST 606 Control. Shpg. wt., 10 lbs. **\$2.06**

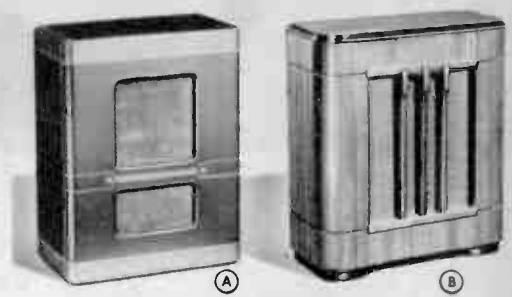
**12-inch Concert Speakers**

Catalog No.	Model	P.M. Type		
		V.C. Imp.	Rating	Shpg. Wt.
57NP 17431	PM 12C	6	10 watts	8 lbs.
57NP 17434	PM 12B	8	14 watts	17 lbs.
57NP017435	A 12PM	8	15 watts	18 lbs.

Electro-Dynamic Type				
2500 ohm or 1250 ohm Field Coil (Specify Choice)				
57NP 13170	C 12R	8	10 watts	8 lbs.
57NP 13171	'B 12X	8	12.4 watts	12 lbs.

See listings on Page 20 for Speaker Transformers

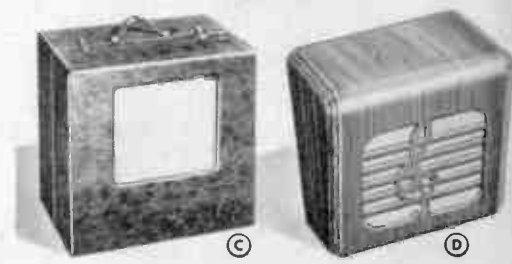


**Jensen Enclosures**

(A) Whole octaves are added to music... speech is crisp and intelligible. Objectionable resonance and boom is eliminated and performance becomes more independent of acoustic environment when these baffles are employed. Combines Peri-dynamic and Bass-Reflex principles. Brown lacquer finish. Shipped taken apart. Easy to assemble. All hardware included.

**57 NP 017438**—BR121 for 12-inch speaker. Size 30 3/4 x 23 3/4 x 12 3/4 in. Shpg. wt., 47 lbs. **\$15.58**  
**57 NP 013178**—BR151 for 15-inch speaker. Size 33 1/2 x 25 x 13 3/4 in. Shpg. wt., 60 lbs. **18.23**

(B) CA Cabinets. Bass Reflex construction. Made of beautifully grained genuine striped walnut paneling.  
**57 NP 013163**—CA12. For 12-inch speakers. Size 31 1/2 x 27 3/4 x 12 in. Shpg. wt., 40 lbs. **\$27.10**  
**57 NP 013161**—CA15 for 15-inch speakers. Size 31 1/2 x 27 3/4 x 14 in. Shpg. wt., 44 lbs. **31.90**



**Speaker Case**

(C) Deluxe quality single speaker carrying case. Built to accommodate a 10-inch or 12-inch speaker and provide enough baffle area to give you good tone quality. Cheaper cases, of which there are many varieties, are usually too small to give you this needed area. Covered with a heavy grade of artificial leather. Size overall 16x16x12 inches.  
**57 NP 017495**—Shpg. wt., 12 lbs. **\$3.95**

**Walnut Wall Baffle**

(D) For 12-inch speakers. Beautifully finished walnut veneer cabinet with attractively designed grill. Extremely well constructed... reinforced throughout. Slope front gives the proper directional effect to the speaker. Furnished, complete with hardware for mounting speaker. Shpg. wt., 8 lbs.  
**57 NP 017443**—Model SM 12 **\$4.25**



**New Hypex Projectors**

Designed to give maximum "punch" and carrying power to voice frequencies on P.A. work. Commercially acceptable musical reproduction, within limits of all small reflex horns, is also provided.

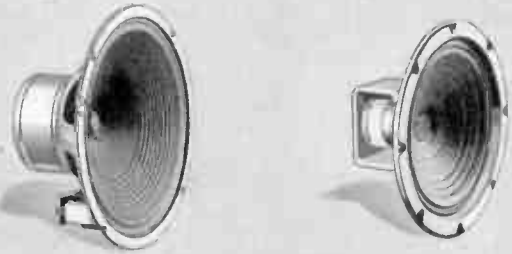
**Type H24 Hypox Horn.** Bell diam. 24 1/2 in. Depth 20 1/2 in. Acoustical length 5 feet. Low cut-off 140 cps. Weatherproofed steel construction attractively finished in gray. Has connection for standard 3/8 inch pipe thread.

**57 NP 013167**—Shpg. wt., 22 lbs. Less Bracket **\$20.58**

**57 NP 13168**—Bracket, Wt., 3 lbs. **\$2.94**

**Type U-20 Annular P.M. Driver Unit.** Rated at 15 watts continuous or 25 watts max. 16 ohm voice coil. Dustproof. Shipping weight, 11 pounds.

**57 NP 013169** **\$21.17**



**Jensen Standard Speakers**

Exceptionally good speakers for use in radio receivers, low power public address and call systems. Supplied without transformers.

Catalog Number	Size (inches)	Model Number	Input Impedance	Power Rating	Shpg. Wt.	Price Each
P.M. Types						
57NP13159	5	PM 5 FS	4	2.5 watts	2 lbs. 8oz	\$1.95
57NP13160	6	PM 6 ES	4	3.5 watts	3 lbs.	2.59
57NP13172	8	PM 8 DS	4	5 watts	4 lbs.	3.70
57NP13173	10	PM 10 GS	6	8 watts	6 lbs.	5.17
57NP13174	12	PM 12 GS	6	9 watts	7 lbs.	6.47
Electro Dynamic Types						
6 and 8 inch Speakers available with 1500 ohms, 1600 ohms, or 2500 ohms Field; 10 inch Speakers with 1250 ohm and 2500 ohm Field only. State Field Resistance Wanted.						
57NP13175	6	E 6 RS	4	5 watts	3 lbs.	\$2.94
57NP13176	8	D 8 RS	4	6 watts	4 lbs.	3.23
57NP13177	10	G 10 RS	6	8 watts	6 lbs.	4.85

**University Reflex Speaker**

University speakers easily justify their cost. Have superb tone quality and through their increased efficiency convert a greater percentage of your amplifiers electrical energy into sound waves, thus increasing power output.

**Driver Units:** Only highest quality materials and workmanship are used in University driver units. Pole pieces are made from 99.7% pure "Armco" electrical quality iron. Surface of the "Alnico" Magnets and washer shaped pole pieces are ground microscopically flat. Due to an exclusive method of voice coil centering these units have far greater efficiency than can possibly be realized with ordinary speakers. Fully 75% of the magnetic gap is occupied by the voice coil as compared to the usual 50%.

**Projectors:** The driver unit exponential horn loud speaker possesses the highest possible acoustic efficiency. A correctly designed combination having up to 50% electro-acoustic conversion efficiency at speech frequencies, as compared to about 10 to 20% for cone speakers. To obtain proper "loading" without undue length and bulkiness, these projectors are so designed that the air column is almost three times the overall length of the horn itself.

**Waterproof Chambers:** Reflexed chambers of University Projectors act as a trap against the possibility of any water entering the mouth of the driver units.

See Listings at Left for Driver Unit and Projector



**Type LH Projector**

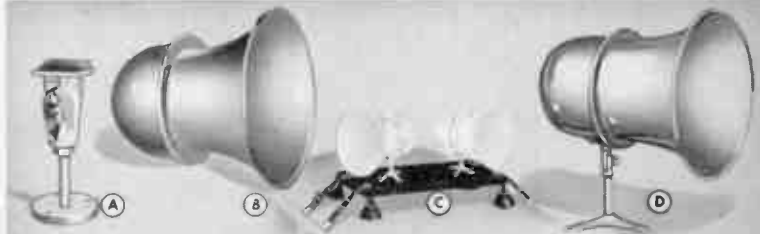
Heavy gauge steel. Exposed edges have oversize beads. No metallic resonance or rattle. Each horn tested throughout audio spectrum. 30 to 10,000 cycles at maximum power. Coupling thread 1 3/8 in. x 18. Not available. Shipping weight, 19 pounds.

**57 NPM 17483** **\$21.99**

**Type SAH Driver Unit**

Enclosed in spun aluminum head assembly. Watertight. Ideal for outdoor use. Handles 25 to 30 watts. Shpg. wt., 8 lbs.

**57 NP 017481** **\$19.40**



**Projectors and Mounting Fixtures**

(B) **Armored Cone Projector.** An efficient heavy grade steel projector for dynamic cone speakers. Suitable for indoor or outdoor use. Complete with mounting hook and mounting hole. Overall length 20 inches. Bell diameter 17 inches. For use with 12 inch or 10 inch cone speakers. **Specify Speaker Size.**  
**57 NP 010964**—Less Mounting Fixture. Shpg. wt., 7 lbs. **\$5.10**

(A) **Mounting Fixture.** For mounting speakers anywhere. Has 8-inch base. 14 1/2 inches high. Black ripple finish. Shipping weight, 6 pounds.  
**57 NP 10965**—Complete as illustrated **\$2.25**  
**57 NP 10966**—Saddle and Saddle only. Same as mounting fixture above but without base and pipe. Shipping weight, 4 pounds **1.25**

(D) **Cone Projector.** Heavier and better made than the projector described above. More suitable for higher power speakers, (above 10 watts). Length 20 in., bell diameter 17 in., flare 11 in. long. Gray enamel finish. Steel construction.  
**57 NP 013185**—Less Bracket. Shpg. wt., 8 lbs. **\$7.13**  
**57 NP 13186**—Bracket as illustrated. Shpg. wt., 5 lbs. **\$1.47**

(C) **Auto Top Mounting Platform.** Complete with straps. Projector not included.  
**57 NP 017441**—Shipping weight, 10 pounds **\$4.39**